Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{20}Ne	$(n\gamma)^{21}$Ne	6.7610e+00	0.0	1.5	1.2750	0.01	2.3e−05	
	7.6500e+00	6.8403e−03	−1.9980e+00	7.0269e+00	−4.3033e−01	1.3531e−02	−2.6342e+00	2.9896e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.94	0.89 0.84
^{21}Ne	$(n\gamma)^{22}$Ne	1.0364e+01	1.5	0.0	5.6000	0.01	4.0e−05	
	1.8528e+01	−4.8836e−02	4.2645e+00	−1.0319e+01	6.5840e−01	−3.4277e−02	3.7907e+00	4.3550e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.98	0.90 0.85	0.83 0.82	0.81 0.80
^{21}Ne	$(n\alpha)^{18}$O	6.9700e−01	1.5	0.0	5.6000	0.01	2.9e−03	0
	−7.1663e+01	1.4946e−01	−2.7155e+01	1.1582e+02	−9.6952e+00	6.4122e−01	−3.5095e+01	−7.1432e+01
^{22}Ne	$(n\gamma)^{23}$Ne	5.2010e+00	0.0	2.5	2.5500	0.01	1.3e−05	
	6.0335e+00	−9.4072e−03	−4.9789e−01	6.2472e+00	−6.8924e−01	4.7459e−02	−1.5551e+00	2.7881e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.96 0.91	0.87 0.85
^{23}Ne	$(n\gamma)^{24}$Ne	8.8650e+00	2.5	0.0	6.3850	0.01	6.2e−06	
	1.0224e+01	−4.2793e−03	−7.9485e−01	2.1511e+00	−7.5634e−02	−2.4561e−03	−1.2563e+00	3.5658e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.96	0.92 0.88
^{24}Ne	$(n\gamma)^{25}$Ne	4.1830e+00	0.0	0.5	3.4300	0.01	1.1e−05	
	1.1972e+01	−3.6081e−02	2.5857e+00	−5.0636e+00	4.7514e−01	−3.6895e−02	1.9113e+00	3.4923e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.92 0.88
^{25}Ne	$(n\gamma)^{26}$Ne	5.5830e+00	0.5	0.0	8.8200	0.01	2.1e−06	
	9.0914e+00	−1.3218e−02	−4.0605e−02	3.6156e−01	7.3893e−02	−1.0405e−02	−6.0307e−01	3.3431e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.91	0.84 0.77
^{26}Ne	$(n\gamma)^{27}$Ne	1.4080e+00	0.0	1.5	6.2300	0.01	2.2e−05	1
	1.5030e+01	−2.8726e−02	3.6361e+00	−1.3093e+01	1.4002e+00	−8.9080e−02	4.1669e+00	3.7293e+01
^{27}Ne	$(n\gamma)^{28}$Ne	3.8860e+00	1.5	0.0	12.0100	0.01	2.3e−06	1
	9.5995e+00	−3.3577e−02	1.9917e+00	−4.1683e+00	3.4270e−01	−1.5005e−02	1.2755e+00	3.4637e+01
^{28}Ne	$(n\gamma)^{29}$Ne	1.3290e+00	0.0	0.5	8.4750	0.01	8.8e−06	
	1.3890e+01	−5.3229e−02	5.1429e+00	−1.4506e+01	1.5727e+00	−1.2187e−01	4.9797e+00	3.6850e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.05 1.15	1.23 1.22
^{29}Ne	$(n\gamma)^{30}$Ne	3.8550e+00	0.5	0.0	12.7450	0.01	3.6e−06	
	1.1024e+01	−4.2081e−02	2.8689e+00	−5.8428e+00	5.8647e−01	−4.7477e−02	2.0617e+00	3.5372e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.03	1.05 1.07	1.06 1.01
^{30}Ne	$(n\gamma)^{31}$Ne	1.3870e+00	0.0	1.5	n.c.	0.01	3.3e−05	
	1.4024e+01	−2.7150e−02	3.4087e+00	−1.1975e+01	1.3550e+00	−1.1248e−01	3.8590e+00	3.6295e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.03 1.07	1.06 0.99
^{31}Ne	$(n\gamma)^{32}$Ne	3.8800e+00	1.5	0.0	n.c.	0.01	5.9e−06	
	1.0910e+01	−6.4746e−02	4.5538e+00	−8.5975e+00	6.8903e−01	−3.6736e−02	3.2889e+00	3.5955e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.95	0.92 0.90
^{33}Ne	$(n\gamma)^{34}$Ne	1.4700e+00	1.5	0.0	n.c.	0.01	1.6e−05	0
	8.2622e+00	−7.5610e−02	5.4903e+00	−1.0308e+01	9.4172e−01	−5.2209e−02	4.0499e+00	3.3309e+01
^{35}Ne	$(n\gamma)^{36}$Ne	1.3600e−01	2.5	0.0	n.c.	0.01	4.3e−05	0
	−1.8799e+01	−2.2956e−02	−1.8796e+00	2.0267e+01	−1.3175e+00	7.4059e−02	−5.0677e+00	6.6558e+00
^{37}Ne	$(n\gamma)^{38}$Ne	2.8120e+00	0.5	0.0	n.c.	0.01	2.2e−05	0
	5.9348e+00	4.7221e−02	−4.1607e+00	5.1760e+00	−6.3838e−01	7.1567e−02	−3.1855e+00	3.0294e+01
^{22}Na	$(n\gamma)^{23}$Na	1.2419e+01	3.0	1.5	0.6000	0.01	1.4e−06	
	9.5263e+00	2.0684e−02	−2.2508e+00	6.9382e+00	−7.5387e−01	5.1782e−02	−2.3435e+00	3.3725e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.95	0.91 0.82	0.76 0.71
^{22}Na	$(np)^{22}$Ne	3.6250e+00	3.0	0.0	0.6000	0.01	2.1e−06	0
	1.6094e+01	4.8412e−02	−2.0906e+00	5.7961e+00	−6.3926e−01	4.5688e−02	−1.6285e+00	1.8040e+01
^{22}Na	$(n\alpha)^{19}$F	1.9520e+00	3.0	0.5	0.6000	0.01	1.8e−04	
	−3.6012e+00	9.0848e−02	−1.1764e+01	3.2895e+01	−1.7873e+00	7.2514e−02	−1.2200e+01	−3.5148e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.11 1.27	1.39 1.53	1.59 1.60
^{23}Na	$(n\gamma)^{24}$Na	6.9590e+00	1.5	4.0	0.6300	0.01	5.7e−05	
	1.3798e+01	−4.3612e−02	2.8619e+00	−4.0435e+00	9.9341e−02	6.2578e−03	1.8234e+00	3.6629e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.96 0.91	0.90 0.89	0.89 0.89
^{24}Na	$(n\gamma)^{25}$Na	9.0110e+00	4.0	2.5	1.3650	0.01	2.6e−06	
	7.1979e+00	1.5800e−02	−3.0380e+00	8.8989e+00	−6.8496e−01	4.1513e−02	−3.5995e+00	3.1248e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.08	1.12 1.16	1.18 1.19
^{25}Na	$(n\gamma)^{26}$Na	5.6160e+00	2.5	3.0	1.6150	0.01	1.4e−05	
	1.3468e+01	−9.3439e−03	1.4132e−01	−2.7303e+00	4.2564e−01	−2.9270e−02	6.3214e−02	3.6961e+01
	1.00 1.00	0.99 0.98	0.97 0.95	0.94 0.94	0.93 0.93	0.93 0.95	0.97 0.99	1.01 1.02
^{26}Na	$(n\gamma)^{27}$Na	6.7500e+00	3.0	2.5	1.9800	0.01	2.9e−06	
	1.4979e+01	−3.0585e−02	2.1070e+00	−6.0186e+00	4.9060e−01	−3.0042e−02	1.7112e+00	3.8782e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.00	0.99 0.99	0.99 0.98	0.98 0.98	0.97 0.96	0.93 0.92	0.92 0.92	0.93 0.93
^{27}Na	(nγ)^{28}Na	3.5240e+00	2.5	1.0	1.9950	0.01	1.1e−06	
	1.1782e+01	−4.1265e−02	2.9291e+00	−6.3820e+00	5.3050e−01	−2.8775e−02	2.2194e+00	3.6127e+01
	1.02 1.06	1.08 1.11	1.13 1.14	1.15 1.16	1.17 1.18	1.22 1.26	1.28 1.34	1.39 1.43
^{28}Na	(nγ)^{29}Na	4.4190e+00	1.0	1.5	4.0900	0.01	5.8e−06	
	1.3967e+01	−4.2077e−02	3.2661e+00	−7.2162e+00	4.4397e−01	−2.6085e−02	2.6443e+00	3.7332e+01
	1.04 1.11	1.17 1.22	1.24 1.27	1.29 1.30	1.31 1.33	1.34 1.31	1.27 1.17	1.09 1.01
^{29}Na	(nγ)^{30}Na	2.0960e+00	1.5	2.0	3.6650	0.01	3.5e−06	
	1.1661e+01	−4.1573e−02	3.1932e+00	−7.9330e+00	7.5069e−01	−4.7585e−02	2.6517e+00	3.5092e+01
	1.05 1.11	1.15 1.18	1.20 1.22	1.23 1.25	1.25 1.26	1.32 1.35	1.39 1.43	1.46 1.46
^{30}Na	(nγ)^{31}Na	4.0020e+00	2.0	2.5	4.8000	0.01	5.0e−06	
	1.2947e+01	−4.2740e−02	3.0932e+00	−6.4772e+00	4.0786e−01	−2.3958e−02	2.3532e+00	3.6421e+01
	1.02 1.06	1.09 1.11	1.12 1.14	1.15 1.15	1.16 1.17	1.19 1.18	1.17 1.12	1.07 1.02
^{31}Na	(nγ)^{32}Na	2.4310e+00	2.5	0.0	3.1000	0.01	5.9e−06	
	1.1623e+01	−4.9029e−02	3.7670e+00	−8.7590e+00	7.9560e−01	−4.9185e−02	3.0669e+00	3.7073e+01
	1.08 1.15	1.19 1.22	1.24 1.26	1.28 1.28	1.30 1.31	1.37 1.43	1.48 1.57	1.67 1.71
^{32}Na	(nγ)^{33}Na	8.6500e−01	0.0	1.5	4.3300	0.01	2.5e−06	
	1.3430e+01	−1.1884e−03	1.0433e+00	−9.8950e+00	1.1664e+00	−8.2507e−02	2.1048e+00	3.5703e+01
	2.69 3.59	3.93 4.05	4.09 4.06	4.01 3.94	3.85 3.77	3.02 2.57	2.28 1.92	1.66 1.44
^{33}Na	(nγ)^{34}Na	1.2080e+00	1.5	0.0	8.2450	0.01	6.4e−06	
	1.1818e+01	−7.5270e−02	6.2669e+00	−1.4588e+01	1.4036e+00	−9.6350e−02	5.3476e+00	3.6865e+01
	1.29 1.46	1.52 1.54	1.54 1.54	1.53 1.52	1.52 1.50	1.45 1.43	1.43 1.46	1.43 1.35
^{34}Na	(nγ)^{35}Na	1.8750e+00	0.0	1.5	7.3300	0.01	2.1e−05	0
	1.8655e+01	−2.5545e−02	4.1136e+00	−1.5874e+01	1.1906e+00	−7.0314e−02	5.1101e+00	4.0931e+01
^{36}Na	(nγ)^{37}Na	1.0460e+00	3.0	1.5	n.c.	0.01	5.2e−06	0
	9.4568e+00	−7.1819e−02	5.5462e+00	−1.1709e+01	1.1714e+00	−8.2853e−02	4.4017e+00	3.3681e+01
^{38}Na	(nγ)^{39}Na	7.3500e−01	2.0	1.5	n.c.	0.01	4.5e−05	0
	8.5564e+00	−8.4074e−02	6.3407e+00	−1.2289e+01	1.1746e+00	−7.0250e−02	4.8444e+00	3.2446e+01
^{24}Mg	(nγ)^{25}Mg	7.3310e+00	0.0	2.5	0.4950	0.01	1.1e−05	
	2.7841e+00	3.2016e−02	−5.1876e+00	1.6539e+01	−1.2753e+00	7.8051e−02	−6.0910e+00	2.4637e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.93	0.91 0.90
^{25}Mg	(nγ)^{26}Mg	1.1093e+01	2.5	0.0	3.1700	0.01	3.3e−06	
	1.0473e+01	4.9501e−03	−1.8322e+00	5.3868e+00	−4.2226e−01	2.3323e−02	−2.3522e+00	3.5911e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.98	0.95 0.89	0.84 0.79
^{25}Mg	(nα)^{22}Ne	4.7800e−01	2.5	0.0	3.1700	0.01	8.2e−03	0
	−3.7577e+00	−1.1994e+00	9.1370e+01	−8.5624e+01	7.5859e−01	8.8037e−02	6.5626e+01	−3.1605e+00
^{26}Mg	(nγ)^{27}Mg	6.4430e+00	0.0	0.5	1.1800	0.01	8.5e−06	
	1.0918e+01	−2.3595e−02	9.2188e−01	3.6447e−01	1.0376e−01	−2.7955e−02	3.1049e−02	3.3874e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.94	0.85 0.74
^{27}Mg	(nγ)^{28}Mg	8.5040e+00	0.5	0.0	3.6600	0.01	1.5e−05	
	4.7334e+00	2.2794e−02	−4.0614e+00	1.2652e+01	−1.0185e+00	5.7321e−02	−4.8257e+00	2.9078e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.98	0.94 0.84	0.74 0.67
^{28}Mg	(nγ)^{29}Mg	3.7140e+00	0.0	1.5	2.9600	0.01	2.6e−05	
	9.5444e+00	−3.4529e−02	2.0010e+00	−1.0795e+00	−2.7682e−02	2.0227e−03	9.2732e−01	3.1811e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.91	0.86 0.82
^{29}Mg	(nγ)^{30}Mg	6.2920e+00	1.5	0.0	6.3850	0.01	4.4e−06	
	9.4117e+00	2.7100e−03	−1.6451e+00	3.1692e+00	−5.4025e−02	−4.3889e−03	−2.0121e+00	3.4453e+01
	1.00 0.99	0.96 0.94	0.92 0.91	0.90 0.89	0.89 0.88	0.88 0.89	0.90 0.92	0.92 0.89
^{30}Mg	(nγ)^{31}Mg	2.4040e+00	0.0	1.5	3.6850	0.01	3.3e−04	
	3.9008e+00	1.3796e−02	−2.2294e+00	7.5824e+00	−6.6879e−01	3.9457e−02	−2.6712e+00	2.6171e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.95 0.80	0.70 0.66
^{31}Mg	(nγ)^{32}Mg	5.6520e+00	1.5	0.0	7.9300	0.01	2.1e−06	
	1.1933e+01	−4.3329e−02	2.7546e+00	−4.5492e+00	3.0283e−01	−2.3107e−02	1.7617e+00	3.6978e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.02	1.03 1.01	0.96 0.89
^{32}Mg	(nγ)^{33}Mg	2.0720e+00	0.0	2.5	4.1100	0.01	4.0e−05	
	1.1192e+01	−7.5039e−02	6.4854e+00	−9.7634e+00	2.3954e−01	1.3211e−02	5.1163e+00	3.3060e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.96 1.00	1.11 1.21
^{33}Mg	(nγ)^{34}Mg	4.8250e+00	2.5	0.0	8.7750	0.01	2.7e−06	
	1.3320e+01	−6.4698e−02	5.1193e+00	−1.0280e+01	8.5661e−01	−6.0366e−02	4.0772e+00	3.8773e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.93 0.82	0.77 0.76	0.79 0.80
^{35}Mg	(nγ)^{36}Mg	3.8360e+00	1.5	0.0	15.3950	0.01	2.1e−06	

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.3609e+01	−9.8064e−02	7.9045e+00	−1.4188e+01	9.0187e−01	−5.0982e−02	6.2034e+00	3.8659e+01
	0.96 0.91	0.95 1.02	1.08 1.15	1.21 1.26	1.31 1.35	1.55 1.56	1.53 1.43	1.32 1.20
^{37}Mg	$(n\gamma)^{38}$Mg	2.8830e+00	2.5	0.0	14.3350	0.01	8.4e−06	0
	1.5152e+01	−6.9481e−02	6.5168e+00	−1.6875e+01	1.4571e+00	−9.0012e−02	6.0899e+00	4.0610e+01
^{39}Mg	$(n\gamma)^{40}$Mg	3.7720e+00	0.5	0.0	n.c.	0.01	2.1e−04	0
	1.6200e+01	−3.0663e−02	3.5673e+00	−1.3111e+01	9.3836e−01	−3.0348e−02	4.0401e+00	4.0561e+01
^{41}Mg	$(n\gamma)^{42}$Mg	7.3000e−01	3.5	0.0	n.c.	0.01	6.9e−03	0
	1.3123e+02	−1.4108e+01	1.0134e+02	−2.4786e+02	1.9481e+01	−1.2615e+00	9.6485e+01	1.5698e+02
^{43}Mg	$(n\gamma)^{44}$Mg	6.2900e+00	0.5	0.0	n.c.	0.01	4.7e−06	0
	1.0750e+01	6.5626e−02	−4.8888e+00	3.2972e+00	−9.6043e−01	1.2303e−01	−3.0346e+00	3.5114e+01
^{26}Al	$(n\gamma)^{27}$Al	1.3058e+01	5.0	2.5	0.2250	0.01	2.5e−06	1
	1.5069e+01	1.8139e−03	−1.0039e−01	−1.3779e+00	1.3713e−01	−1.2682e−02	1.0662e−01	3.9324e+01
^{26}Al	$(np)^{26}$Mg	4.7870e+00	5.0	0.0	0.2250	0.01	3.3e−05	0
	1.0609e+01	1.1711e−01	−8.5587e+00	1.7019e+01	−8.7897e−01	3.6951e−02	−7.1374e+00	1.3007e+01
^{26}Al	$(n\alpha)^{23}$Na	2.9660e+00	5.0	1.5	0.2250	0.01	1.3e−04	
	2.2081e+00	9.5937e−02	−1.0854e+01	2.6390e+01	−1.3399e+00	5.7907e−02	−1.0583e+01	2.0174e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.02 1.05	1.30 1.53	1.64 1.70	1.68 1.63
^{27}Al	$(n\gamma)^{28}$Al	7.7250e+00	2.5	3.0	0.5300	0.01	2.0e−06	
	1.1345e+01	−3.8670e−03	−9.3016e−01	3.0876e+00	−1.9358e−01	1.0720e−02	−1.4822e+00	3.4843e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.93	0.90 0.86
^{28}Al	$(n\gamma)^{29}$Al	9.4360e+00	3.0	2.5	0.6150	0.01	3.6e−06	
	9.4783e+00	1.3300e−02	−3.0088e+00	7.2061e+00	−3.6443e−01	1.0172e−02	−3.4932e+00	3.3286e+01
	0.98 0.95	0.92 0.91	0.92 0.92	0.92 0.93	0.93 0.94	0.97 0.99	0.99 0.95	0.89 0.81
^{29}Al	$(n\gamma)^{30}$Al	5.7280e+00	2.5	3.0	0.4550	0.01	1.0e−06	
	1.3522e+01	−3.1317e−02	1.8914e+00	−4.1243e+00	4.7640e−01	−4.0079e−02	1.2463e+00	3.7023e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.98 0.93
^{30}Al	$(n\gamma)^{31}$Al	7.1530e+00	3.0	1.5	1.2150	0.01	3.1e−06	
	1.1976e+01	−2.1459e−02	8.0526e−01	−5.9903e−01	−4.4123e−03	−2.1476e−03	9.6363e−02	3.6192e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.01	0.97 0.91	0.83 0.76
^{31}Al	$(n\gamma)^{32}$Al	4.1790e+00	1.5	1.0	0.9500	0.01	1.6e−06	
	1.3659e+01	−4.4093e−02	3.2849e+00	−7.1067e+00	5.4542e−01	−3.5472e−02	2.5713e+00	3.7605e+01
	1.01 1.02	1.04 1.05	1.06 1.07	1.07 1.08	1.08 1.09	1.09 1.09	1.08 1.05	1.01 0.94
^{32}Al	$(n\gamma)^{33}$Al	5.5140e+00	1.0	1.5	2.1200	0.01	2.9e−06	
	1.5994e+01	−4.9079e−02	4.0820e+00	−8.7695e+00	4.6429e−01	−2.7472e−02	3.4195e+00	3.9366e+01
	1.03 1.09	1.16 1.21	1.25 1.29	1.30 1.32	1.34 1.35	1.34 1.28	1.20 1.06	0.94 0.83
^{33}Al	$(n\gamma)^{34}$Al	2.4290e+00	1.5	2.0	1.5700	0.01	1.6e−06	
	1.3698e+01	−5.4788e−02	4.4101e+00	−1.0276e+01	8.9011e−01	−5.8375e−02	3.6973e+00	3.7136e+01
	1.03 1.07	1.10 1.12	1.14 1.15	1.16 1.17	1.18 1.18	1.20 1.21	1.22 1.24	1.24 1.21
^{34}Al	$(n\gamma)^{35}$Al	5.2670e+00	2.0	2.5	2.7950	0.01	9.7e−07	
	1.5292e+01	−4.3994e−02	3.4963e+00	−7.8853e+00	3.8957e−01	−2.1060e−02	2.8935e+00	3.8772e+01
	1.03 1.08	1.13 1.16	1.18 1.20	1.21 1.21	1.21 1.22	1.16 1.09	1.01 0.89	0.78 0.69
^{35}Al	$(n\gamma)^{36}$Al	2.0970e+00	2.5	3.0	1.5650	0.01	4.3e−06	
	1.1826e+01	−4.9152e−02	3.7158e+00	−8.8120e+00	8.5925e−01	−5.8427e−02	3.0107e+00	3.5335e+01
	1.02 1.02	1.03 1.04	1.05 1.04	1.05 1.05	1.05 1.05	1.05 1.05	1.05 1.06	1.06 1.01
^{36}Al	$(n\gamma)^{37}$Al	4.3840e+00	3.0	2.5	4.1500	0.01	3.7e−06	
	1.2875e+01	−3.4853e−02	2.4979e+00	−5.6662e+00	4.2154e−01	−3.2037e−02	1.9308e+00	3.6694e+01
	1.02 1.05	1.07 1.09	1.10 1.11	1.12 1.12	1.12 1.12	1.13 1.10	1.06 0.99	0.89 0.78
^{37}Al	$(n\gamma)^{38}$Al	1.1880e+00	2.5	0.0	2.3000	0.01	4.5e−06	
	1.1309e+01	−5.0112e−02	4.3531e+00	−1.2172e+01	1.4502e+00	−1.0947e−01	4.0014e+00	3.6767e+01
	1.20 1.37	1.45 1.51	1.53 1.56	1.58 1.59	1.60 1.60	1.60 1.57	1.55 1.51	1.46 1.35
^{38}Al	$(n\gamma)^{39}$Al	3.1920e+00	0.0	2.5	5.2400	0.01	6.6e−06	0
	2.0769e+01	4.0866e−02	−6.7887e−01	−1.1127e+01	9.0850e−01	−5.7972e−02	2.0294e+00	4.2644e+01
^{40}Al	$(n\gamma)^{41}$Al	5.7910e+00	4.0	1.5	3.9150	0.01	4.8e−06	0
	1.7688e+01	−1.3120e−02	2.2988e+00	−1.0693e+01	6.3009e−01	−3.6262e−02	3.0997e+00	4.2168e+01
^{44}Al	$(n\gamma)^{45}$Al	5.2250e+00	2.0	2.5	n.c.	0.01	4.0e−04	0
	3.6337e+01	−1.2094e−01	1.4512e+01	−4.5585e+01	3.4350e+00	−2.0318e−01	1.5751e+01	5.9827e+01
^{28}Si	$(n\gamma)^{29}$Si	8.4740e+00	0.0	0.5	0.2200	0.01	8.6e−06	
	9.3385e+00	1.6611e−02	−2.7264e+00	7.1133e+00	−3.8278e−01	1.4892e−02	−3.0501e+00	3.2298e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.96	0.93 0.91
^{29}Si	$(n\gamma)^{30}$Si	1.0609e+01	0.5	0.0	2.3200	0.01	3.2e−05	
	1.0332e+01	1.7573e−02	−2.8045e+00	6.5035e+00	−2.7915e−01	−1.6234e−03	−3.0361e+00	3.4680e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.98 0.92	0.84 0.76
^{30}Si	(nγ)^{31}Si	6.5870e+00	0.0	1.5	0.9500	0.01	1.4e−05	
	1.2432e+01	−2.8456e−02	1.5180e+00	−1.7913e+00	3.1830e−01	−3.7793e−02	7.1094e−01	3.4703e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.98	0.93 0.84
^{31}Si	(nγ)^{32}Si	9.2030e+00	1.5	0.0	2.6050	0.01	2.3e−06	
	1.1945e+01	−1.4470e−02	1.5474e−01	3.0470e−01	2.3624e−02	−3.9636e−03	−4.3217e−01	3.6990e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.97 0.95	0.92 0.88
^{32}Si	(nγ)^{33}Si	4.4830e+00	0.0	1.5	1.1950	0.01	2.7e−06	1
	1.2845e+01	−5.0775e−02	3.8748e+00	−6.3252e+00	4.9133e−01	−3.4158e−02	2.8656e+00	3.5118e+01
^{33}Si	(nγ)^{34}Si	7.5360e+00	1.5	0.0	4.7300	0.01	1.4e−06	
	1.1331e+01	−2.0393e−02	7.9468e−01	−1.3780e+00	2.1170e−01	−2.3020e−02	2.0277e−01	3.6378e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.94	0.89 0.82
^{34}Si	(nγ)^{35}Si	2.4750e+00	0.0	2.5	2.2950	0.01	4.4e−05	1
	1.8871e+01	−1.0480e−01	1.0017e+01	−2.1828e+01	1.7487e+00	−1.1463e−01	9.0177e+00	4.0742e+01
^{35}Si	(nγ)^{36}Si	6.1120e+00	2.5	0.0	7.6350	0.01	5.5e−06	1
	1.1465e+01	−4.0258e−02	2.7573e+00	−4.9406e+00	4.4023e−01	−3.4419e−02	1.9222e+00	3.6920e+01
^{36}Si	(nγ)^{37}Si	2.1950e+00	0.0	1.5	2.9600	0.01	3.2e−05	
	1.8609e+01	−9.2158e−02	8.6185e+00	−2.0621e+01	1.9399e+00	−1.4720e−01	7.8628e+00	4.0888e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.03	1.01 0.89
^{37}Si	(nγ)^{38}Si	5.2920e+00	1.5	0.0	7.6550	0.01	3.3e−06	
	1.0330e+01	−3.1115e−02	1.7085e+00	−3.0068e+00	3.3543e−01	−3.4100e−02	9.4138e−01	3.5382e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 1.00	0.99 0.99	0.97 0.93	0.86 0.75
^{38}Si	(nγ)^{39}Si	1.4620e+00	0.0	2.5	4.5850	0.01	2.3e−05	
	1.8477e+01	−1.2312e−01	1.1630e+01	−2.5115e+01	2.1842e+00	−1.6429e−01	1.0382e+01	4.0352e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.04	1.00 0.87
^{39}Si	(nγ)^{40}Si	4.1290e+00	2.5	0.0	9.5550	0.01	3.7e−06	
	1.2304e+01	−4.4762e−02	3.4152e+00	−7.4605e+00	7.5325e−01	−6.0645e−02	2.7168e+00	3.7763e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	0.96 0.86
^{40}Si	(nγ)^{41}Si	3.1170e+00	0.0	0.5	4.1600	0.01	6.4e−05	0
	9.6972e+00	−3.6726e−02	2.4971e+00	−3.4306e+00	−1.4191e−01	2.5872e−02	1.6416e+00	3.2673e+01
^{41}Si	(nγ)^{42}Si	4.9770e+00	0.5	0.0	9.9550	0.01	6.3e−05	0
	1.6364e+01	−8.5667e−02	7.0447e+00	−1.5145e+01	1.3813e+00	−9.7783e−02	5.8474e+00	4.0727e+01
^{43}Si	(nγ)^{44}Si	1.5240e+00	1.5	0.0	n.c.	0.01	5.7e−05	0
	1.2252e+01	−9.2086e−02	7.6715e+00	−1.6995e+01	1.4584e+00	−8.9057e−02	6.4687e+00	3.7310e+01
^{45}Si	(nγ)^{46}Si	4.2360e+00	0.5	0.0	n.c.	0.01	3.7e−05	0
	1.3167e+01	4.4865e−02	−2.7165e+00	−3.2654e+00	2.6453e−01	−2.9323e−04	−8.3431e−01	3.7533e+01
^{47}Si	(nγ)^{48}Si	6.6600e−01	2.5	0.0	n.c.	0.01	2.7e−02	0
	−9.4791e+01	2.3684e+00	−1.8540e+02	2.8981e+02	−1.6644e+01	9.3719e−01	−1.3825e+02	−6.9325e+01
^{49}Si	(nγ)^{50}Si	3.0500e−01	4.5	0.0	n.c.	0.01	4.8e−03	0
	−1.0742e+02	2.8230e+00	−2.2115e+02	3.3502e+02	−1.7972e+01	9.5723e−01	−1.6400e+02	−8.1440e+01
^{30}P	(nγ)^{31}P	1.2312e+01	1.0	0.5	0.2150	0.01	1.0e−05	
	1.3101e+01	5.5570e−04	2.8343e−01	2.5793e−01	−1.4583e−01	7.7173e−03	3.0743e−01	3.7163e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.95 0.90	0.85 0.79
^{30}P	(np)^{30}Si	5.0150e+00	1.0	0.0	0.2150	0.01	5.4e−06	0
	2.0961e+01	4.0630e−02	−4.2514e−01	−5.6014e−01	−9.8097e−02	8.5988e−03	5.3265e−01	2.2059e+01
^{30}P	(nα)^{27}Al	2.6430e+00	1.0	2.5	0.2150	0.01	3.8e−04	
	9.9656e+00	−1.0239e−02	−2.3272e+00	6.5345e+00	6.5425e−01	−1.0894e−01	−2.4781e+00	8.0442e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.08 1.26	1.46 1.77	1.91 1.94
^{31}P	(nγ)^{32}P	7.9360e+00	0.5	1.0	0.1500	0.01	2.6e−06	
	1.1109e+01	1.0790e−02	−2.1911e+00	5.2394e+00	−1.2012e−01	−1.5834e−02	−2.5062e+00	3.4361e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.96	0.90 0.80
^{32}P	(nγ)^{33}P	1.0104e+01	1.0	0.5	0.4750	0.01	1.8e−05	
	1.0848e+01	5.7236e−02	−6.1481e+00	9.5582e+00	−2.4474e−01	−1.2887e−02	−5.4293e+00	3.4913e+01
	1.00 0.99	0.96 0.93	0.89 0.88	0.87 0.87	0.86 0.86	0.92 0.97	1.00 1.00	0.93 0.81
^{32}P	(np)^{32}Si	5.5800e−01	1.0	0.0	0.4750	0.01	2.7e−04	0
	−3.3940e+01	2.9633e−01	−3.1494e+01	8.2791e+01	−5.2879e+00	2.7875e−01	−3.1762e+01	−3.2841e+01
^{33}P	(nγ)^{34}P	6.2910e+00	0.5	1.0	0.2700	0.01	2.1e−06	
	1.1233e+01	−1.0288e−02	−2.0959e−01	1.5688e+00	8.7817e−02	−2.6100e−02	−8.0061e−01	3.4488e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.95	0.88 0.78
^{34}P	(nγ)^{35}P	8.3710e+00	1.0	0.5	0.9700	0.01	5.4e−05	
	1.6936e+01	−4.8664e−02	3.8459e+00	−8.5106e+00	6.6854e−01	−5.6473e−02	3.1498e+00	4.1004e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.94 0.90	0.88 0.84	0.74 0.63
^{35}P	(nγ)^{36}P	3.4650e+00	0.5	2.0	0.6350	0.01	9.4e−05	
	2.0282e+01	−8.9285e−02	8.3778e+00	−2.0001e+01	1.8287e+00	−1.3522e−01	7.6539e+00	4.3029e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.00 0.86
^{36}P	(nγ)^{37}P	6.8150e+00	2.0	0.5	2.4850	0.01	2.9e−06	
	1.3621e+01	−3.1734e−02	2.0226e+00	−3.4941e+00	1.1693e−01	−1.0836e−02	1.3176e+00	3.8202e+01
	1.01 1.03	1.05 1.06	1.08 1.09	1.10 1.11	1.11 1.12	1.10 1.06	1.00 0.88	0.75 0.64
^{37}P	(nγ)^{38}P	3.5430e+00	0.5	2.0	0.7500	0.01	6.0e−06	
	9.0032e+00	−1.9681e−02	7.6408e−01	6.2817e−01	1.2305e−02	−1.8321e−02	−1.3426e−02	3.1753e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.05	1.07 1.04	0.94 0.80
^{38}P	(nγ)^{39}P	6.2550e+00	2.0	0.5	1.7550	0.01	8.0e−07	
	1.3570e+01	−2.6922e−02	1.7602e+00	−3.5402e+00	1.6012e−01	−1.6433e−02	1.2252e+00	3.8153e+01
	1.01 1.03	1.05 1.07	1.08 1.09	1.10 1.10	1.11 1.10	1.09 1.04	0.97 0.83	0.69 0.57
^{39}P	(nγ)^{40}P	3.7590e+00	0.5	2.0	0.8050	0.01	9.7e−06	
	7.1368e+00	−4.4445e−03	−7.7221e−01	4.7424e+00	−4.2587e−01	1.6092e−02	−1.5035e+00	2.9888e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.07 1.10	1.09 1.01	0.86 0.70
^{40}P	(nγ)^{41}P	4.5780e+00	2.0	0.5	1.4650	0.01	3.3e−06	
	1.3994e+01	−3.4765e−02	2.8192e+00	−7.1045e+00	4.5104e−01	−3.2353e−02	2.4355e+00	3.8579e+01
	1.03 1.07	1.10 1.13	1.15 1.16	1.16 1.17	1.17 1.16	1.12 1.04	0.97 0.82	0.69 0.57
^{41}P	(nγ)^{42}P	1.9720e+00	0.5	4.0	1.9300	0.01	2.0e−05	
	4.1257e+00	−1.2357e−02	−2.2496e−01	4.8001e+00	−3.3166e−01	6.3432e−03	−1.2329e+00	2.6291e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.02 1.03	1.18 1.31	1.38 1.36	1.20 0.98
^{42}P	(nγ)^{43}P	5.5040e+00	4.0	1.5	2.3200	0.01	2.5e−06	0
	1.4730e+01	−1.6541e−02	1.7949e+00	−6.3486e+00	3.2234e−01	−2.2314e−02	1.9645e+00	3.9211e+01
^{44}P	(nγ)^{45}P	2.5310e+00	0.0	0.5	6.4300	0.01	6.0e−05	0
	2.1548e+01	2.4473e−02	−1.7766e−02	−1.4046e+01	1.4007e+00	−9.5434e−02	2.3957e+00	4.4527e+01
^{45}P	(nγ)^{46}P	3.9000e−01	0.5	0.0	n.c.	0.01	5.4e−05	0
	−8.7687e+00	4.8188e−02	−6.7613e+00	1.8489e+01	−6.3989e−01	−7.9370e−03	−7.3969e+00	1.5597e+01
^{46}P	(nγ)^{47}P	3.7500e+00	0.0	0.5	n.c.	0.01	4.1e−04	0
	2.3969e+01	−1.0192e−01	8.7123e+00	−2.6606e+01	2.5855e+00	−1.9855e−01	8.1919e+00	4.6950e+01
^{48}P	(nγ)^{49}P	1.2850e+00	3.0	1.5	n.c.	0.01	1.2e−01	0
	8.5590e+01	7.3857e−01	−2.1297e+01	−7.3472e+01	9.1026e+00	−7.4095e−01	1.3154e+01	1.0982e+02
^{50}P	(nγ)^{51}P	2.7300e−01	3.0	1.5	n.c.	0.01	1.3e−02	0
	−7.9989e+01	−8.7197e+00	−1.0985e+02	1.9795e+02	−9.5816e+00	3.7207e−01	−9.2435e+01	−5.5754e+01
^{52}P	(nγ)^{53}P	1.0100e−01	1.0	2.5	n.c.	0.01	1.2e−02	0
	1.9515e+02	−9.3463e+00	1.3566e+02	−3.5896e+02	3.0831e+01	−2.1039e+00	1.3406e+02	2.1814e+02
^{54}P	(nγ)^{55}P	2.7200e−01	3.0	2.5	n.c.	0.01	2.7e−03	0
	3.5047e+02	−1.0429e+02	5.0916e+02	−8.9382e+02	5.0619e+01	−2.6305e+00	4.1944e+02	3.7430e+02
^{32}S	(nγ)^{33}S	8.6420e+00	0.0	1.5	0.1350	0.01	5.4e−06	
	1.3474e+01	4.5821e−03	−1.1459e+00	1.5048e+00	2.9836e−01	−4.9051e−02	−1.2318e+00	3.5747e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.98	0.92 0.81
^{32}S	(nα)^{29}Si	1.5260e+00	0.0	0.5	0.1350	0.01	2.1e−03	0
	−8.7839e+01	5.9813e−01	−6.4658e+01	1.7060e+02	−1.0685e+01	5.5699e−01	−6.5282e+01	−8.9771e+01
^{33}S	(nγ)^{34}S	1.1417e+01	1.5	0.0	0.7300	0.01	7.7e−06	
	1.5639e+01	4.3891e−03	−5.2693e−01	−1.0038e+00	3.1339e−01	−4.1076e−02	−3.0014e−01	4.0686e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.98 0.93	0.85 0.73
^{33}S	(np)^{33}P	5.3400e−01	1.5	0.5	0.7300	0.01	4.3e−04	0
	−3.6323e+01	2.2679e−01	−2.5397e+01	7.9413e+01	−5.7664e+00	3.4687e−01	−2.7490e+01	−3.5630e+01
^{33}S	(nα)^{30}Si	3.4930e+00	1.5	0.0	0.7300	0.01	9.7e−06	
	1.8592e+01	−6.6594e−02	2.5288e+00	−4.8124e+00	6.6268e−01	−4.3606e−02	1.9350e+00	1.8735e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.02	1.04 1.11	1.23 1.36
^{34}S	(nγ)^{35}S	6.9860e+00	0.0	1.5	0.2200	0.01	2.5e−05	
	1.4939e+01	−2.9863e−02	2.0291e+00	−4.5952e+00	7.0250e−01	−6.9897e−02	1.4968e+00	3.7215e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	0.97 0.86
^{35}S	(nγ)^{36}S	9.8890e+00	1.5	0.0	1.2300	0.01	1.7e−05	
	1.7712e+01	−3.3595e−02	2.6916e+00	−8.0609e+00	9.8159e−01	−9.3359e−02	2.4299e+00	4.2762e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.97	0.88 0.72
^{35}S	(nα)^{32}Si	8.8100e−01	1.5	0.0	1.2300	0.01	1.7e−02	0
	−1.4098e+02	6.6016e−02	−3.1796e+01	1.8710e+02	−1.6443e+01	1.0599e+00	−5.0377e+01	−1.4084e+02
^{36}S	(nγ)^{37}S	4.3040e+00	0.0	3.5	0.4900	0.01	9.7e−05	
	1.9510e+01	−8.9931e−02	8.5710e+00	−1.8760e+01	1.6123e+00	−1.1300e−01	7.7119e+00	4.1095e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.00 0.91
^{37}S	(nγ)^{38}S	8.0360e+00	3.5	0.0	3.1950	0.01	1.6e−05	
	1.2189e+01	−3.3159e−02	1.8370e+00	−2.5585e+00	2.9562e−01	−3.2592e−02	9.5506e−01	3.7934e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.02 1.01	0.95 0.83
^{38}S	(nγ)^{39}S	4.3720e+00	0.0	1.5	0.7650	0.01	1.3e−05	
	7.0136e+00	4.2019e−03	−1.5947e+00	6.1383e+00	−4.0925e−01	1.4488e−02	−2.2068e+00	2.9294e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.91	0.85 0.77
^{39}S	(nγ)^{40}S	7.7600e+00	1.5	0.0	3.1700	0.01	4.2e−06	
	1.1287e+01	−8.9171e−03	−1.7334e−01	9.7368e−01	3.8554e−02	−2.1722e−02	−6.4192e−01	3.6341e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.00 0.92	0.81 0.66
^{40}S	(nγ)^{41}S	3.8240e+00	0.0	2.5	1.0250	0.01	1.1e−05	
	1.5223e+01	−2.4186e−02	2.6582e+00	−8.3853e+00	1.1084e+00	−1.1255e−01	2.7893e+00	3.7100e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.95	0.82 0.64
^{41}S	(nγ)^{42}S	6.7110e+00	2.5	0.0	3.8900	0.01	7.9e−06	
	1.3161e+01	−3.1340e−02	2.2759e+00	−4.9525e+00	4.3931e−01	−3.9934e−02	1.7528e+00	3.8622e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	0.99 0.93	0.84 0.71
^{42}S	(nγ)^{43}S	3.3110e+00	0.0	3.5	1.6300	0.01	1.6e−05	
	1.2548e+01	−1.5715e−02	2.0096e+00	−6.3396e+00	1.0308e+00	−1.1660e−01	2.2013e+00	3.4139e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.04 1.04	0.92 0.72
^{43}S	(nγ)^{44}S	5.3020e+00	3.5	0.0	5.2600	0.01	1.1e−05	
	1.1483e+01	−4.7747e−02	3.6852e+00	−7.1796e+00	6.8614e−01	−5.5286e−02	2.8644e+00	3.7234e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.03	1.06 1.08	1.05 0.94
^{44}S	(nγ)^{45}S	1.3340e+00	0.0	0.5	2.6750	0.01	5.6e−05	0
	2.1346e+01	−1.0676e−01	1.0239e+01	−2.8039e+01	3.0654e+00	−2.5570e−01	9.8019e+00	4.4325e+01
^{45}S	(nγ)^{46}S	3.7050e+00	0.5	0.0	8.8200	0.01	8.6e−06	0
	5.9937e+00	−5.4011e−03	−9.9403e−01	3.4588e+00	−1.0387e−01	−1.7937e−02	−1.6561e+00	3.0360e+01
^{46}S	(nγ)^{47}S	5.7000e−01	0.0	0.5	5.1050	0.01	5.6e−05	0
	1.1198e+01	−6.4944e−02	5.3183e+00	−1.4892e+01	2.4319e+00	−2.4218e−01	4.7194e+00	3.4179e+01
^{47}S	(nγ)^{48}S	3.2460e+00	0.5	0.0	9.7800	0.01	9.8e−06	0
	7.4652e+00	−3.3668e−02	1.6249e+00	−1.2631e+00	1.6148e−01	−3.1858e−02	5.6926e−01	3.1833e+01
^{49}S	(nγ)^{50}S	2.6670e+00	1.5	0.0	n.c.	0.01	3.4e−05	0
	1.8656e+01	−8.3359e−02	8.0743e+00	−2.2866e+01	2.3431e+00	−1.8672e−01	7.8467e+00	4.3718e+01
^{51}S	(nγ)^{52}S	1.2590e+00	4.5	0.0	n.c.	0.01	7.7e−03	0
	−3.9101e+01	4.1766e−01	−4.1500e+01	8.3061e+01	−3.2301e+00	3.8764e−02	−3.7389e+01	−1.3121e+01
^{53}S	(nγ)^{54}S	1.1910e+00	1.5	0.0	n.c.	0.01	1.1e−02	0
	−1.6606e+02	3.6936e+00	−3.0183e+02	4.8635e+02	−2.6067e+01	1.2886e+00	−2.3318e+02	−1.4099e+02
^{55}S	(nγ)^{56}S	1.0660e+00	2.5	0.0	n.c.	0.01	1.1e−03	0
	6.1548e+01	−1.6441e+01	9.4981e+01	−1.6086e+02	9.7709e+00	−5.6081e−01	7.5791e+01	8.7018e+01
^{57}S	(nγ)^{58}S	9.0000e−02	2.5	0.0	n.c.	0.01	3.2e−03	0
	−4.9322e+01	−1.5887e+01	−8.5586e+01	1.3880e+02	−6.5123e+00	3.1251e−01	−6.8016e+01	−2.3851e+01
^{34}Cl	(nγ)^{35}Cl	1.2645e+01	0.0	1.5	0.0750	0.01	4.8e−04	
	2.3302e+01	−1.3682e−01	1.3167e+01	−2.4173e+01	1.3273e+00	−7.5004e−02	1.1450e+01	4.5578e+01
	1.00 1.00	1.03 1.09	1.20 1.31	1.40 1.48	1.53 1.57	1.63 1.57	1.49 1.35	1.20 1.05
^{34}Cl	(np)^{34}S	6.2740e+00	0.0	0.0	0.0750	0.01	4.5e−05	0
	2.0529e+01	1.8257e−02	7.6925e−01	−2.2386e+00	2.2752e−01	−1.9357e−02	1.1194e+00	2.0529e+01
^{34}Cl	(nα)^{31}P	5.6480e+00	0.0	0.5	0.0750	0.01	1.2e−04	
	1.1436e+01	7.2101e−02	−8.1832e+00	1.6051e+01	−8.7395e−01	5.4309e−02	−7.2755e+00	9.4948e+00
	1.00 1.00	0.99 0.96	0.93 0.90	0.86 0.84	0.82 0.81	0.79 0.81	0.85 0.91	0.98 1.11
^{35}Cl	(nγ)^{36}Cl	8.5800e+00	1.5	2.0	0.1250	0.01	4.2e−06	
	1.7061e+01	−1.0458e−02	8.1365e−01	−3.9717e+00	6.0066e−01	−6.2409e−02	8.7681e−01	4.0501e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.95	0.87 0.74
^{35}Cl	(np)^{35}S	6.1500e−01	1.5	1.5	0.1250	0.01	2.1e−04	0
	−3.2459e+01	2.5868e−01	−2.7534e+01	7.8480e+01	−5.4880e+00	3.2542e−01	−2.8478e+01	−3.2459e+01
^{35}Cl	(nα)^{32}P	9.3900e−01	1.5	1.0	0.1250	0.01	1.9e−02	
	−1.5841e+02	1.3620e−01	−4.0968e+01	2.1608e+02	−1.8751e+01	1.2180e+00	−6.0497e+01	−1.5938e+02
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.31 1.77	2.25 3.19	4.05 4.71
^{36}Cl	(nγ)^{37}Cl	1.0311e+01	2.0	1.5	0.1700	0.01	5.2e−06	
	1.3633e+01	1.0280e−02	−1.4289e+00	2.4099e+00	−8.5495e−03	−2.4113e−02	−1.4017e+00	3.7521e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.98	0.95 0.86	0.74 0.60
^{36}Cl	(np)^{36}S	1.9240e+00	2.0	0.0	0.1700	0.01	4.4e−05	0
	1.0027e+01	8.6758e−02	−6.0751e+00	1.3997e+01	−1.1692e+00	8.1407e−02	−5.2886e+00	1.1637e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{36}Cl	$(n\alpha)^{33}$P	2.4620e+00	2.0	0.5	0.1700	0.01	1.2e−03	
	1.7768e−01	1.6032e−01	−1.3754e+01	2.5207e+01	3.6984e−01	−1.3607e−01	−1.2127e+01	−1.6181e−01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.07 1.29	1.57 2.06	2.36 2.53
^{37}Cl	$(n\gamma)^{38}$Cl	6.1080e+00	1.5	2.0	0.1200	0.01	8.6e−05	
	1.8514e+01	−6.8505e−02	5.7612e+00	−1.2921e+01	1.2559e+00	−9.9313e−02	4.8971e+00	4.1957e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.94 0.79
^{38}Cl	$(n\gamma)^{39}$Cl	8.0730e+00	2.0	1.5	0.5150	0.01	1.2e−04	
	8.1611e+00	3.0899e−03	−2.1032e+00	8.9639e+00	−1.0325e+00	7.8177e−02	−3.0775e+00	3.2051e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.95 0.85	0.75 0.60	0.52 0.45
^{38}Cl	$(n\alpha)^{35}$P	7.0600e−01	2.0	0.5	0.5150	0.01	2.4e−02	0
	−8.0141e+01	−1.0265e+00	6.7013e+01	1.7687e+01	−8.5354e+00	7.2467e−01	3.3844e+01	−8.0488e+01
^{39}Cl	$(n\gamma)^{40}$Cl	5.8290e+00	1.5	2.0	0.2050	0.01	1.8e−05	
	1.2860e+01	−2.7004e−02	1.3882e+00	−1.5233e+00	9.7412e−02	−1.5701e−02	6.0682e−01	3.6305e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.96 0.93	0.90 0.83	0.75 0.64
^{40}Cl	$(n\gamma)^{41}$Cl	7.8530e+00	2.0	0.5	0.4250	0.01	2.9e−06	
	1.4540e+01	−1.9065e−02	9.8394e−01	−1.4950e+00	6.3161e−03	−1.0341e−02	4.7958e−01	3.9125e+01
	1.00 1.02	1.03 1.04	1.05 1.06	1.06 1.07	1.07 1.07	1.06 1.01	0.95 0.80	0.65 0.51
^{41}Cl	$(n\gamma)^{42}$Cl	5.7200e+00	0.5	2.0	0.1800	0.01	4.5e−06	
	1.9959e+01	−7.0934e−02	6.8577e+00	−1.4506e+01	7.8532e−01	−5.3194e−02	6.1729e+00	4.2713e+01
	1.04 1.12	1.21 1.29	1.35 1.41	1.46 1.50	1.52 1.54	1.58 1.48	1.35 1.09	0.85 0.64
^{42}Cl	$(n\gamma)^{43}$Cl	7.1130e+00	2.0	0.5	0.4800	0.01	1.7e−06	
	1.5152e+01	−2.9449e−02	2.1123e+00	−4.5478e+00	2.9910e−01	−3.2717e−02	1.6110e+00	3.9739e+01
	1.01 1.02	1.04 1.05	1.06 1.07	1.08 1.09	1.09 1.10	1.09 1.04	0.98 0.83	0.68 0.53
^{43}Cl	$(n\gamma)^{44}$Cl	4.0330e+00	0.5	4.0	0.3450	0.01	3.3e−05	
	6.1412e+00	2.8374e−02	−3.6275e+00	9.2473e+00	−4.6500e−01	−4.3310e−03	−3.7936e+00	2.8308e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.05 1.10	1.11 1.02	0.84 0.64
^{44}Cl	$(n\gamma)^{45}$Cl	6.9900e+00	4.0	1.5	0.8050	0.01	2.3e−06	
	1.6365e+01	−2.3248e−02	2.3592e+00	−7.0261e+00	4.1697e−01	−3.4041e−02	2.3816e+00	4.0848e+01
	1.07 1.19	1.28 1.34	1.39 1.41	1.44 1.45	1.47 1.47	1.43 1.30	1.18 0.94	0.74 0.57
^{45}Cl	$(n\gamma)^{46}$Cl	2.3890e+00	1.5	0.0	0.4650	0.01	1.4e−06	
	1.1875e+01	−4.0315e−02	3.0358e+00	−7.7078e+00	1.0240e+00	−9.4149e−02	2.4962e+00	3.6934e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.04	1.06 1.07	1.00 0.85
^{46}Cl	$(n\gamma)^{47}$Cl	4.0810e+00	0.0	0.5	2.7400	0.01	1.5e−05	0
	2.3160e+01	1.0192e−02	1.5257e+00	−1.4674e+01	1.1738e+00	−7.8759e−02	3.5837e+00	4.6141e+01
^{47}Cl	$(n\gamma)^{48}$Cl	1.4930e+00	0.5	0.0	1.5600	0.01	3.5e−05	0
	1.1848e+01	−6.9326e−02	5.7267e+00	−1.1714e+01	1.0504e+00	−8.5185e−02	4.7042e+00	3.6216e+01
^{48}Cl	$(n\gamma)^{49}$Cl	3.3840e+00	0.0	0.5	3.4600	0.01	8.5e−06	0
	2.2259e+01	1.9075e−02	5.2273e−01	−1.3298e+01	1.1677e+00	−8.2886e−02	2.7002e+00	4.5241e+01
^{49}Cl	$(n\gamma)^{50}$Cl	8.0900e−01	0.5	2.0	1.8350	0.01	2.5e−06	0
	1.4322e+01	−2.8602e−02	3.2242e+00	−1.3539e+01	1.6762e+00	−1.4105e−01	3.7633e+00	3.7081e+01
^{50}Cl	$(n\gamma)^{51}$Cl	2.6710e+00	2.0	0.5	4.0650	0.01	2.8e−06	0
	1.5836e+01	−3.1394e−02	3.2045e+00	−1.1132e+01	9.0852e−01	−6.8416e−02	3.4030e+00	4.0429e+01
^{52}Cl	$(n\gamma)^{53}$Cl	1.3960e+00	5.0	0.5	n.c.	0.01	6.8e−06	0
	1.2875e+01	−3.2639e−02	3.2370e+00	−1.1910e+01	1.4187e+00	−1.2139e−01	3.4541e+00	3.8257e+01
^{54}Cl	$(n\gamma)^{55}$Cl	9.0200e−01	0.0	0.5	n.c.	0.01	2.0e−03	0
	−4.1654e+01	2.1516e−01	−2.7654e+01	7.8001e+01	−5.4914e+00	3.1095e−01	−2.9694e+01	−1.8669e+01
^{56}Cl	$(n\gamma)^{57}$Cl	1.0270e+00	2.0	0.5	n.c.	0.01	1.5e−02	0
	−1.8425e+01	1.8942e−01	−1.6048e+01	4.1084e+01	−3.8567e+00	2.7631e−01	−1.4137e+01	6.1702e+00
^{57}Cl	$(n\gamma)^{58}$Cl	3.5800e−01	0.5	3.0	n.c.	0.01	5.1e−03	0
	−3.6935e+01	8.9329e−01	−6.8444e+01	1.1172e+02	−7.1918e+00	4.1793e−01	−5.0754e+01	−1.4508e+01
^{58}Cl	$(n\gamma)^{59}$Cl	1.1620e+00	3.0	0.5	n.c.	0.01	1.6e−02	0
	1.1068e+01	−1.4653e−02	2.3751e−01	−1.4863e+01	4.4794e+00	−4.9578e−01	1.0674e+00	3.6001e+01
^{60}Cl	$(n\gamma)^{61}$Cl	1.4080e+00	3.0	0.5	n.c.	0.01	6.0e−03	0
	3.2418e+01	−6.8872e−02	8.3683e+00	−4.5977e+01	7.1852e+00	−6.6885e−01	1.1017e+01	5.7351e+01
^{36}Ar	$(n\gamma)^{37}$Ar	8.7890e+00	0.0	1.5	0.0500	0.01	1.5e−06	
	1.2185e+01	3.3373e−02	−3.3650e+00	5.6901e+00	−5.8647e−02	−2.5247e−02	−2.9423e+00	3.4464e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.96	0.89 0.77
^{36}Ar	$(np)^{36}$Cl	7.4000e−02	0.0	2.0	0.0500	0.01	2.7e−04	0
	6.2597e+01	4.4342e−01	−1.7926e−01	−5.8615e+01	3.8438e+00	−2.3862e−01	2.4068e+01	6.0988e+01
^{36}Ar	$(n\alpha)^{33}$S	2.0020e+00	0.0	1.5	0.0500	0.01	2.2e−03	
	−3.6687e+01	−2.0288e−01	−1.5198e+01	6.4344e+01	−2.9558e+00	6.0467e−02	−2.1624e+01	−3.9329e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.19	1.50 2.06	2.44 2.69
^{37}Ar	(nγ)^{38}Ar	1.1838e+01	1.5	0.0	0.4700	0.01	3.9e−06	
	1.8548e+01	−2.7723e−02	2.9047e+00	−7.9323e+00	8.4445e−01	−8.3568e−02	2.8794e+00	4.3600e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.96	0.86 0.70
^{37}Ar	(np)^{37}Cl	1.5960e+00	1.5	1.5	0.4700	0.01	6.2e−05	0
	1.2276e+01	7.8702e−02	−5.2797e+00	1.1294e+01	−7.0096e−01	3.7371e−02	−4.4632e+00	1.2276e+01
^{37}Ar	(nα)^{34}S	4.6300e+00	1.5	0.0	0.4700	0.01	1.7e−05	
	2.0072e+01	−1.9613e−02	1.8224e+00	−4.7590e+00	5.6437e−01	−3.3893e−02	1.7801e+00	2.0199e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.07	1.14 1.20
^{38}Ar	(nγ)^{39}Ar	6.5980e+00	0.0	3.5	0.1400	0.01	6.4e−05	
	1.9306e+01	−6.6278e−02	5.8822e+00	−1.3187e+01	1.3651e+00	−1.1750e−01	5.1401e+00	4.0893e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	0.96 0.81
^{39}Ar	(nγ)^{40}Ar	9.8690e+00	3.5	0.0	1.0800	0.01	4.1e−06	
	1.6204e+01	−3.1165e−02	2.1044e+00	−5.0964e+00	6.8682e−01	−7.3740e−02	1.5798e+00	4.1951e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.95	0.82 0.66
^{39}Ar	(nα)^{36}S	3.0680e+00	3.5	0.0	1.0800	0.01	8.5e−04	0
	1.2282e+01	8.0835e−02	−5.8047e+00	4.8495e+00	1.5033e+00	−1.8357e−01	−4.2283e+00	1.3095e+01
^{40}Ar	(nγ)^{41}Ar	6.0990e+00	0.0	3.5	0.2400	0.01	4.1e−05	
	1.0515e+01	−6.9540e−03	−4.3973e−01	3.0946e+00	3.7849e−02	−4.1199e−02	−1.0827e+00	3.2104e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.90	0.74 0.57
^{41}Ar	(nγ)^{42}Ar	9.4260e+00	3.5	0.0	1.0100	0.01	4.4e−06	
	2.0014e+01	−4.9634e−02	4.3966e+00	−1.1927e+01	1.0598e+00	−8.0948e−02	4.0572e+00	4.5763e+01
	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.98	0.98 0.98	0.97 0.97	0.97 0.93	0.86 0.73
^{42}Ar	(nγ)^{43}Ar	5.6270e+00	0.0	1.5	0.2450	0.01	1.3e−05	
	7.9856e+00	2.1426e−02	−3.0298e+00	8.0625e+00	−4.1447e−01	2.9585e−03	−3.2913e+00	3.0270e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.90	0.81 0.69
^{43}Ar	(nγ)^{44}Ar	8.3560e+00	1.5	0.0	1.2650	0.01	6.7e−06	
	1.2547e+01	−1.1543e−02	1.2433e−01	4.5093e−01	4.7957e−02	−2.4562e−02	−3.6622e−01	3.7604e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.01	1.02 1.02	1.06 1.06	1.04 0.94	0.79 0.61
^{44}Ar	(nγ)^{45}Ar	5.5290e+00	0.0	0.5	0.3450	0.01	2.8e−05	
	1.9152e+01	−4.6318e−02	4.4646e+00	−1.2856e+01	1.6108e+00	−1.6549e−01	4.3409e+00	4.2131e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 0.98	0.79 0.55
^{45}Ar	(nγ)^{46}Ar	8.0730e+00	0.5	0.0	1.7800	0.01	1.3e−05	
	9.4576e+00	3.4050e−03	−1.5772e+00	5.1010e+00	−2.5957e−01	−1.3784e−02	−2.1135e+00	3.3824e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.03	1.00 0.87	0.69 0.51
^{46}Ar	(nγ)^{47}Ar	4.2590e+00	0.0	1.5	0.5900	0.01	4.5e−05	
	2.2174e+01	−7.0225e−02	7.3356e+00	−2.0376e+01	2.1338e+00	−1.8734e−01	7.3015e+00	4.4462e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.00	0.87 0.63
^{47}Ar	(nγ)^{48}Ar	5.2840e+00	1.5	0.0	3.2150	0.01	3.5e−06	
	1.0107e+01	−1.3178e−02	2.1376e−01	−6.4226e−01	3.2615e−01	−5.0865e−02	−2.2816e−01	3.5167e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.01 0.94	0.80 0.63
^{48}Ar	(nγ)^{49}Ar	1.7070e+00	0.0	0.5	2.5200	0.01	3.8e−05	0
	1.7239e+01	−6.4422e−02	6.1094e+00	−1.7989e+01	2.2022e+00	−1.9858e−01	5.9425e+00	4.0220e+01
^{49}Ar	(nγ)^{50}Ar	4.6610e+00	0.5	0.0	6.8300	0.01	2.9e−06	0
	2.2346e+01	−1.0310e−01	1.0218e+01	−2.3536e+01	1.5490e+00	−1.0714e−01	9.4896e+00	4.6714e+01
^{50}Ar	(nγ)^{51}Ar	1.0800e+00	0.0	0.5	3.3400	0.01	1.9e−04	0
	6.9598e+00	−1.9196e−02	7.6017e−01	−2.5962e+00	9.7786e−01	−1.1859e−01	3.0932e−01	2.9943e+01
^{51}Ar	(nγ)^{52}Ar	3.8830e+00	0.5	0.0	8.3000	0.01	1.9e−05	0
	1.7577e+01	−2.8003e−02	3.2005e+00	−1.1907e+01	9.7877e−01	−7.4114e−02	3.6127e+00	4.1947e+01
^{52}Ar	(nγ)^{53}Ar	2.2200e−01	0.0	4.5	4.3850	0.01	3.0e−03	0
	−8.2202e+00	6.8578e−02	−4.3758e+00	1.7424e+01	−1.9458e+00	1.4572e−01	−3.8284e+00	1.3154e+01
^{53}Ar	(nγ)^{54}Ar	2.7710e+00	4.5	0.0	10.2600	0.01	3.4e−05	0
	1.4729e+01	−3.9635e−02	3.8963e+00	−1.2710e+01	1.3588e+00	−1.0682e−01	3.9821e+00	4.0709e+01
^{54}Ar	(nγ)^{55}Ar	7.0900e−01	0.0	4.5	n.c.	0.01	6.1e−04	0
	4.4130e+00	2.1402e−01	−1.2154e+01	1.2693e+01	−7.4655e−01	3.1363e−02	−6.1204e+00	2.5789e+01
^{55}Ar	(nγ)^{56}Ar	3.3140e+00	4.5	0.0	n.c.	0.01	3.0e−05	0
	8.4579e+00	−1.0452e−02	1.7752e−01	−2.7558e+00	9.1633e−01	−1.0056e−01	4.3869e−02	3.4439e+01
^{57}Ar	(nγ)^{58}Ar	1.7120e+00	4.5	0.0	n.c.	0.01	8.9e−04	0
	1.6986e+01	−2.2410e−01	1.9799e+01	−3.6463e+01	2.9720e+00	−2.1352e−01	1.6471e+01	4.2968e+01
^{59}Ar	(nγ)^{60}Ar	1.8240e+00	3.5	0.0	n.c.	0.01	1.2e−05	0
	9.8033e+00	−1.6405e−02	1.4662e+00	−7.7335e+00	1.4266e+00	−1.4119e−01	1.7244e+00	3.5563e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{61}Ar	$(n\gamma)^{62}$Ar	2.1300e+00	2.5	0.0	n.c.	0.01	2.1e−04	0
	−3.2327e+00	1.9853e−02	−4.3555e+00	1.2924e+01	−3.5586e−01	−1.9668e−02	−5.3005e+00	2.2240e+01
^{63}Ar	$(n\gamma)^{64}$Ar	2.4800e−01	1.5	0.0	n.c.	0.01	1.0e−02	0
	−8.6155e+01	2.4532e−01	−3.6175e+01	1.2933e+02	−1.0512e+01	6.7331e−01	−4.3039e+01	−6.1087e+01
^{38}K	$(n\gamma)^{39}$K	1.3076e+01	3.0	1.5	0.0350	0.01	3.1e−05	
	1.7097e+01	−9.5979e−03	1.5923e+00	−5.3815e+00	5.7123e−01	−5.4553e−02	1.9073e+00	4.1324e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.97 0.96	0.96 0.93	0.87 0.75
^{38}K	$(np)^{38}$Ar	6.6950e+00	3.0	0.0	0.0350	0.01	5.2e−05	0
	2.1186e+01	3.3801e−02	−6.1939e−01	−1.5765e+00	4.0529e−01	−4.1338e−02	1.4800e−01	2.3132e+01
^{38}K	$(n\alpha)^{35}$Cl	5.8580e+00	3.0	1.5	0.0350	0.01	1.5e−05	
	1.3386e+01	3.2616e−03	−2.4775e+00	8.2371e+00	−6.9051e−01	6.0410e−02	−2.7688e+00	1.2682e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.00 1.00	1.02 1.03	1.03 1.03	1.07 1.20
^{39}K	$(n\gamma)^{40}$K	7.8000e+00	1.5	4.0	0.0350	0.01	6.3e−05	
	1.8656e+01	−4.2102e−02	3.4933e+00	−8.6768e+00	9.6615e−01	−8.5236e−02	3.0304e+00	4.1513e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.95 0.79
^{39}K	$(np)^{39}$Ar	2.1800e−01	1.5	3.5	0.0350	0.01	2.9e−04	0
	7.1654e+01	−7.6323e−01	8.4998e+01	−1.5555e+02	8.2308e+00	−4.2799e−01	7.8163e+01	7.0961e+01
^{39}K	$(n\alpha)^{36}$Cl	1.3620e+00	1.5	2.0	0.0350	0.01	6.1e−03	
	−1.6263e+02	7.6465e−01	−9.1995e+01	2.7263e+02	−1.8889e+01	1.0929e+00	−9.8196e+01	−1.6412e+02
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.12	1.41 2.38	3.86 5.36
^{40}K	$(n\gamma)^{41}$K	1.0095e+01	4.0	1.5	0.1750	0.01	3.1e−06	
	1.6240e+01	−1.8270e−02	9.2249e−01	−2.5077e+00	3.6122e−01	−4.2999e−02	5.4000e−01	4.0720e+01
	0.99 0.97	0.97 0.98	0.98 0.99	1.00 1.01	1.01 1.02	1.05 1.04	1.03 0.97	0.86 0.71
^{40}K	$(np)^{40}$Ar	2.2870e+00	4.0	0.0	0.1750	0.01	7.1e−05	0
	1.5295e+01	3.7241e−02	−1.1731e+00	−6.4749e−01	9.8966e−01	−9.9070e−02	−4.3393e−01	1.7492e+01
^{40}K	$(n\alpha)^{37}$Cl	3.8730e+00	4.0	1.5	0.1750	0.01	1.9e−04	
	1.9177e+01	9.8457e−03	2.1371e−01	−4.5294e+00	1.0645e+00	−9.0267e−02	8.9487e−01	1.8719e+01
	1.02 1.15	1.27 1.36	1.43 1.49	1.53 1.57	1.60 1.62	1.73 1.74	1.75 1.75	1.76 1.88
^{41}K	$(n\gamma)^{42}$K	7.5340e+00	1.5	2.0	0.0750	0.01	1.8e−04	
	5.2234e+00	5.1878e−02	−6.5963e+00	1.7227e+01	−1.1614e+00	4.3481e−02	−6.9195e+00	2.8670e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.98	0.92 0.74	0.57 0.44
^{42}K	$(n\gamma)^{43}$K	9.6430e+00	2.0	1.5	0.1350	0.01	7.0e−05	
	1.7071e+01	1.1464e−04	−2.7817e−01	−1.1880e+00	−1.5496e−01	2.2931e−02	−1.6656e−01	4.0964e+01
	1.00 1.00	0.99 0.97	0.95 0.92	0.90 0.88	0.86 0.84	0.72 0.63	0.55 0.45	0.39 0.36
^{42}K	$(np)^{42}$Ar	1.8300e−01	2.0	0.0	0.1350	0.01	1.2e−03	0
	7.1456e+01	−6.8020e−01	8.0168e+01	−1.5365e+02	8.1015e+00	−4.0913e−01	7.6087e+01	7.3066e+01
^{42}K	$(n\alpha)^{39}$Cl	4.2500e−01	2.0	1.5	0.1350	0.01	2.6e−02	
	1.6930e+02	−3.6679e+00	2.8217e+02	−4.8228e+02	2.5516e+01	−1.3877e+00	2.4446e+02	1.6825e+02
	1.01 1.43	1.59 1.70	1.90 2.11	2.30 2.48	2.68 2.89	4.39 5.17	5.67 6.33	7.19 8.42
^{43}K	$(n\gamma)^{44}$K	7.2890e+00	1.5	2.0	0.0550	0.01	5.1e−05	
	6.0091e+00	2.5806e−02	−4.1784e+00	1.3693e+01	−1.3481e+00	9.0250e−02	−4.9329e+00	2.9457e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.98 0.90	0.80 0.64	0.54 0.45
^{44}K	$(n\gamma)^{45}$K	8.8690e+00	2.0	1.5	0.1600	0.01	1.5e−05	
	2.2811e+01	−4.9414e−02	4.8210e+00	−1.3769e+01	1.1215e+00	−8.9594e−02	4.7198e+00	4.6706e+01
	1.00 1.00	1.00 0.99	0.99 0.98	0.97 0.96	0.95 0.93	0.86 0.82	0.79 0.72	0.61 0.50
^{45}K	$(n\gamma)^{46}$K	6.8820e+00	1.5	2.0	0.0900	0.01	2.2e−06	
	1.1202e+01	−2.2440e−02	8.4664e−01	9.6353e−01	−7.1341e−02	−1.3947e−02	−6.3281e−02	3.4652e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.97 0.92	0.86 0.74	0.61 0.49
^{46}K	$(n\gamma)^{47}$K	8.3490e+00	2.0	0.5	0.2150	0.01	4.3e−04	
	1.3300e+01	−5.2658e−02	3.4350e+00	−3.6976e+00	−1.7692e−01	2.1258e−02	2.0644e+00	3.7890e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.93 0.78	0.65 0.49	0.40 0.30
^{47}K	$(n\gamma)^{48}$K	4.4990e+00	0.5	2.0	0.1650	0.01	7.1e−05	
	2.1656e+01	−7.8468e−02	7.7452e+00	−1.8779e+01	1.4025e+00	−7.5824e−02	7.2781e+00	4.4414e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.95 0.95	0.98 1.09	1.20 1.24
^{48}K	$(n\gamma)^{49}$K	6.2670e+00	2.0	1.5	0.9750	0.01	8.9e−07	
	1.7390e+01	−3.5376e−02	3.1889e+00	−8.2402e+00	4.2512e−01	−2.9977e−02	2.9354e+00	4.1288e+01
	1.04 1.11	1.16 1.19	1.22 1.23	1.24 1.24	1.24 1.24	1.14 1.02	0.90 0.71	0.55 0.44
^{49}K	$(n\gamma)^{50}$K	3.1040e+00	1.5	0.0	0.3600	0.01	3.6e−05	
	1.3572e+01	−4.5911e−02	3.7155e+00	−8.2837e+00	7.4526e−01	−6.4067e−02	3.0879e+00	3.8634e+01
	1.00 1.00	1.00 1.02	1.03 1.05	1.06 1.08	1.09 1.11	1.18 1.18	1.14 1.05	0.91 0.72
^{50}K	$(n\gamma)^{51}$K	4.3410e+00	0.0	0.5	1.4000	0.01	1.9e−05	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	2.4872e+01	2.7388e−02	4.2423e−01	−1.4358e+01	1.2293e+00	−8.7898e−02	3.0298e+00	4.7855e+01
^{51}K	(nγ)^{52}K	2.0580e+00	0.5	2.0	0.7050	0.01	7.2e−06	0
	1.7234e+01	−1.4180e−02	2.2545e+00	−1.1463e+01	1.1511e+00	−9.6046e−02	3.0764e+00	3.9995e+01
^{52}K	(nγ)^{53}K	3.8350e+00	2.0	1.5	1.7100	0.01	2.1e−06	0
	1.6970e+01	−2.0583e−02	2.3165e+00	−8.8415e+00	5.8992e−01	−4.7507e−02	2.6301e+00	4.0870e+01
^{53}K	(nγ)^{54}K	1.2210e+00	1.5	5.0	0.7050	0.01	1.3e−05	0
	1.8098e+01	−3.9789e−02	4.5787e+00	−1.7459e+01	1.8417e+00	−1.4448e−01	5.2080e+00	4.0764e+01
^{54}K	(nγ)^{55}K	2.8700e+00	5.0	3.5	2.0650	0.01	7.0e−06	0
	1.3948e+01	−8.8637e−03	8.9261e−01	−5.8237e+00	5.5757e−01	−5.2065e−02	1.2270e+00	3.7945e+01
^{55}K	(nγ)^{56}K	1.6760e+00	3.5	2.0	0.6300	0.01	5.0e−06	0
	1.7057e+01	−6.1197e−02	5.8146e+00	−1.7270e+01	1.6534e+00	−1.3445e−01	5.6912e+00	4.1206e+01
^{56}K	(nγ)^{57}K	2.8740e+00	2.0	0.5	1.6450	0.01	5.3e−06	0
	1.6295e+01	−2.5725e−02	2.6178e+00	−9.9232e+00	7.5742e−01	−6.1253e−02	2.8659e+00	4.0891e+01
^{57}K	(nγ)^{58}K	2.5700e−01	0.5	5.0	0.8100	0.01	4.7e−05	0
	−4.2691e+00	5.7563e−02	−6.3634e+00	1.3930e+01	−2.3857e−01	−4.8080e−02	−6.1233e+00	1.7706e+01
^{58}K	(nγ)^{59}K	2.9920e+00	5.0	0.5	2.4750	0.01	4.5e−06	0
	1.7596e+01	−2.1562e−02	2.8519e+00	−1.3109e+01	1.0567e+00	−7.7077e−02	3.6141e+00	4.2981e+01
^{59}K	(nγ)^{60}K	1.5500e−01	0.5	0.0	n.c.	0.01	5.2e−03	0
	−4.7940e+00	−1.0516e−01	1.1561e+01	−6.3294e+00	−6.5105e−01	3.9345e−02	9.1402e+00	1.9580e+01
^{60}K	(nγ)^{61}K	2.2100e+00	0.0	3.5	n.c.	0.01	7.5e−05	0
	1.5406e+01	1.5570e−01	−1.1894e+01	4.8562e+00	6.2130e−01	−8.0205e−02	−7.3158e+00	3.7008e+01
^{62}K	(nγ)^{63}K	1.4420e+00	4.0	3.5	n.c.	0.01	3.3e−06	0
	1.7128e+01	−7.8492e−02	7.3247e+00	−1.9762e+01	1.8515e+00	−1.5027e−01	6.9071e+00	4.0928e+01
^{64}K	(nγ)^{65}K	1.3000e+00	3.0	0.5	n.c.	0.01	8.7e−03	0
	2.9745e+01	1.3076e−01	8.6051e−01	−3.0858e+01	2.8622e+00	−2.2132e−01	9.1905e+00	5.4681e+01
^{66}K	(nγ)^{67}K	6.4800e−01	3.0	0.5	n.c.	0.01	2.2e−03	0
	−1.7601e+01	1.5983e−01	−1.7180e+01	3.6664e+01	−1.3033e+00	−1.8506e−02	−1.6243e+01	7.3347e+00
^{40}Ca	(nγ)^{41}Ca	8.3630e+00	0.0	3.5	0.0400	0.01	3.2e−05	
	1.8163e+01	−3.4953e−02	3.1113e+00	−7.7365e+00	9.4431e−01	−8.5647e−02	2.7968e+00	3.9752e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.95 0.83
^{40}Ca	(nα)^{37}Ar	1.7490e+00	0.0	1.5	0.0400	0.01	4.0e−03	0
	−1.1963e+02	6.5428e−01	−7.6801e+01	2.1314e+02	−1.3913e+01	7.7433e−01	−7.9324e+01	−1.2228e+02
^{41}Ca	(nγ)^{42}Ca	1.1481e+01	3.5	0.0	0.4800	0.01	1.3e−05	
	2.1383e+01	−4.1166e−02	3.8953e+00	−1.1233e+01	1.2013e+00	−1.0961e−01	3.7675e+00	4.7132e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.96	0.86 0.67
^{41}Ca	(np)^{41}K	1.2040e+00	3.5	1.5	0.4800	0.01	2.8e−04	0
	2.0743e+01	−3.0729e−02	4.5432e+00	−1.3159e+01	2.2621e+00	−1.8724e−01	4.4231e+00	2.1436e+01
^{41}Ca	(nα)^{38}Ar	5.2240e+00	3.5	0.0	0.4800	0.01	1.2e−05	
	1.9935e+01	−1.6704e−02	1.7079e+00	−5.2792e+00	7.0579e−01	−3.6914e−02	1.7100e+00	2.0742e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.08	1.23 1.41
^{42}Ca	(nγ)^{43}Ca	7.9330e+00	0.0	3.5	0.0950	0.01	6.9e−05	
	1.2506e+01	1.0173e−02	−1.5627e+00	3.6678e+00	1.2127e−01	−5.3669e−02	−1.6926e+00	3.4097e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.91	0.73 0.56
^{42}Ca	(nα)^{39}Ar	3.4200e−01	0.0	3.5	0.0950	0.01	2.3e−02	0
	1.8222e+02	−5.0324e+00	3.0605e+02	−5.1984e+02	2.7254e+01	−1.5106e+00	2.6511e+02	1.7886e+02
^{43}Ca	(nγ)^{44}Ca	1.1132e+01	3.5	0.0	0.3950	0.01	8.1e−06	
	1.5497e+01	−2.6000e−02	1.4694e+00	−1.8783e+00	7.4796e−02	−1.3420e−02	7.7232e−01	4.1248e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.97 0.93	0.88 0.79	0.68 0.57
^{43}Ca	(nα)^{40}Ar	2.2780e+00	3.5	0.0	0.3950	0.01	1.7e−03	0
	−5.1822e+01	3.9722e−01	−4.2664e+01	1.0480e+02	−5.1426e+00	2.0243e−01	−4.1813e+01	−5.1021e+01
^{44}Ca	(nγ)^{45}Ca	7.4150e+00	0.0	3.5	0.0850	0.01	2.3e−05	
	9.5663e+00	7.6077e−03	−1.7024e+00	6.4980e+00	−3.6866e−01	−1.4465e−03	−2.2304e+00	3.1159e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.92	0.81 0.68
^{45}Ca	(nγ)^{46}Ca	1.0394e+01	3.5	0.0	0.5150	0.01	4.3e−06	
	2.2497e+01	−5.4366e−02	5.1475e+00	−1.4474e+01	1.3642e+00	−1.1087e−01	4.9466e+00	4.8249e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.98 0.98	0.97 0.97	0.94 0.93	0.92 0.89	0.81 0.68
^{46}Ca	(nγ)^{47}Ca	7.2760e+00	0.0	3.5	0.1250	0.01	2.2e−05	
	1.5080e+01	−2.4155e−02	2.0490e+00	−4.6495e+00	6.8127e−01	−8.0050e−02	1.7449e+00	3.6674e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 0.97	0.86 0.70
^{47}Ca	(nγ)^{48}Ca	9.9460e+00	3.5	0.0	0.7950	0.01	9.0e−05	
	1.9398e+01	−5.7305e−02	5.1210e+00	−1.3153e+01	1.3337e+00	−1.0379e−01	4.6648e+00	4.5151e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	0.98 0.83
^{48}Ca	(nγ)^{49}Ca	5.1470e+00	0.0	1.5	0.2650	0.01	1.4e−04	
	2.1592e+01	−7.5541e−02	7.6403e+00	−1.9303e+01	1.6449e+00	−1.1497e−01	7.3249e+00	4.3880e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.98 0.83
^{49}Ca	(nγ)^{50}Ca	6.3530e+00	1.5	0.0	3.1800	0.01	1.2e−04	
	2.1016e+01	−6.9709e−02	6.4868e+00	−1.7194e+01	1.6957e+00	−1.3147e−01	6.0782e+00	4.6078e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.97 0.79
^{50}Ca	(nγ)^{51}Ca	4.4050e+00	0.0	1.5	1.1300	0.01	1.1e−04	
	1.5035e+00	4.8400e−02	−5.7925e+00	1.6603e+01	−1.5384e+00	9.8675e−02	−6.1040e+00	2.3793e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.93	0.81 0.61	0.48 0.39
^{51}Ca	(nγ)^{52}Ca	4.6760e+00	1.5	0.0	3.7000	0.01	9.2e−05	
	2.0005e+01	−8.2584e−02	7.5470e+00	−2.0262e+01	2.0902e+00	−1.6936e−01	7.0361e+00	4.5068e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	0.95 0.75
^{52}Ca	(nγ)^{53}Ca	2.3980e+00	0.0	1.5	2.6950	0.01	1.9e−04	0
	2.3521e+01	−7.5544e−02	8.1754e+00	−2.5373e+01	2.9047e+00	−2.6714e−01	8.5138e+00	4.5812e+01
^{53}Ca	(nγ)^{54}Ca	5.1360e+00	1.5	0.0	4.9500	0.01	2.7e−06	0
	1.2042e+01	−2.3380e−02	1.3086e+00	−4.1272e+00	7.8224e−01	−1.0254e−01	9.1490e−01	3.7106e+01
^{54}Ca	(nγ)^{55}Ca	1.8650e+00	0.0	2.5	1.9900	0.01	9.8e−05	0
	1.3548e+01	−3.7047e−02	3.5699e+00	−1.0761e+01	1.6490e+00	−1.8539e−01	3.5129e+00	3.5434e+01
^{55}Ca	(nγ)^{56}Ca	4.6370e+00	2.5	0.0	6.0850	0.01	2.6e−05	0
	1.9376e+01	−4.2506e−02	5.1019e+00	−1.7678e+01	1.9727e+00	−1.8377e−01	5.6860e+00	4.4846e+01
^{56}Ca	(nγ)^{57}Ca	5.4500e−01	0.0	1.5	3.4650	0.01	6.0e−05	0
	2.4373e+01	−1.5791e−01	1.5510e+01	−3.9570e+01	4.4397e+00	−3.8807e−01	1.4690e+01	4.6666e+01
^{57}Ca	(nγ)^{58}Ca	4.7690e+00	1.5	0.0	7.0500	0.01	4.7e−06	0
	1.2027e+01	−4.7397e−02	3.2503e+00	−6.6427e+00	6.6264e−01	−8.6188e−02	2.3510e+00	3.7093e+01
^{58}Ca	(nγ)^{59}Ca	4.9100e−01	0.0	0.5	2.9600	0.01	9.2e−05	0
	1.9276e+01	−7.8785e−02	8.4168e+00	−2.7721e+01	3.8318e+00	−3.6446e−01	8.8645e+00	4.2263e+01
^{59}Ca	(nγ)^{60}Ca	3.1960e+00	0.5	0.0	8.7100	0.01	1.2e−04	0
	9.3175e+00	−6.0988e−03	−2.9439e−01	−1.4659e+00	8.2321e−01	−1.3484e−01	−4.3250e−01	3.3691e+01
^{60}Ca	(nγ)^{61}Ca	7.5700e−01	0.0	4.5	n.c.	0.01	5.7e−04	0
	2.5369e+01	1.8584e−01	−6.2167e+00	−1.7506e+01	3.1435e+00	−3.3536e−01	2.3169e+00	4.6748e+01
^{61}Ca	(nγ)^{62}Ca	2.7520e+00	4.5	0.0	n.c.	0.01	3.0e−03	0
	4.8222e+01	−5.3867e−01	5.1145e+01	−1.0110e+02	6.9323e+00	−4.5708e−01	4.4882e+01	7.4206e+01
^{63}Ca	(nγ)^{64}Ca	2.4820e+00	1.5	0.0	n.c.	0.01	9.9e−06	0
	1.2422e+01	−7.2232e−02	5.7847e+00	−1.2926e+01	1.2091e+00	−1.2358e−01	4.7752e+00	3.7491e+01
^{65}Ca	(nγ)^{66}Ca	2.0240e+00	2.5	0.0	n.c.	0.01	4.6e−05	0
	1.4556e+01	−1.2763e−02	2.2096e+00	−1.3401e+01	1.9819e+00	−2.0941e−01	3.2637e+00	4.0031e+01
^{67}Ca	(nγ)^{68}Ca	1.6340e+00	3.5	0.0	n.c.	0.01	3.9e−04	0
	2.2351e+01	−2.6807e−02	5.4719e+00	−2.7289e+01	3.4066e+00	−3.0087e−01	7.6922e+00	4.8114e+01
^{69}Ca	(nγ)^{70}Ca	1.6950e+00	4.5	0.0	n.c.	0.01	7.7e−03	0
	−9.2037e+00	9.8386e−02	−8.5334e+00	2.0350e+01	−1.2327e+00	4.5988e−02	−7.4672e+00	1.6783e+01
^{42}Sc	(np)^{42}Ca	7.2080e+00	0.0	0.0	0.0250	0.01	1.6e−04	
	2.7575e+01	−3.0787e−03	3.2665e+00	−1.1974e+01	1.1594e+00	−8.3324e−02	4.0017e+00	2.7575e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.92 0.84	0.81 0.80	0.78 0.73
^{42}Sc	(nα)^{39}K	7.3320e+00	0.0	1.5	0.0250	0.01	6.3e−04	0
	3.6450e+01	−1.4035e−01	1.3643e+01	−3.3744e+01	2.4429e+00	−1.1903e−01	1.3233e+01	3.3789e+01
^{43}Sc	(np)^{43}Ca	3.0040e+00	3.5	3.5	0.0400	0.01	1.2e−05	
	1.7460e+01	4.1260e−02	−2.1822e+00	3.9887e+00	−1.2042e−01	4.0833e−04	−1.8228e+00	1.7460e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.01 1.02	1.02 1.01	0.99 0.96	0.93 0.88
^{43}Sc	(nα)^{40}K	2.9940e+00	3.5	4.0	0.0400	0.01	2.2e−03	0
	−7.3974e−01	1.5130e−01	−1.4370e+01	2.5844e+01	5.6047e−01	−1.5178e−01	−1.2576e+01	−2.1353e+00
^{44}Sc	(np)^{44}Ca	4.4360e+00	2.0	0.0	0.0300	0.01	6.2e−05	
	3.2231e+01	−2.8410e−02	6.1821e+00	−2.0698e+01	1.7155e+00	−1.0731e−01	7.0819e+00	3.3841e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.96	0.94 0.91	0.73 0.67	0.66 0.67	0.69 0.71
^{44}Sc	(nα)^{41}K	3.3900e+00	2.0	1.5	0.0300	0.01	5.3e−05	0
	2.9738e+01	−8.5689e−02	9.5740e+00	−3.0591e+01	3.8592e+00	−2.8526e−01	1.0302e+01	2.8680e+01
^{45}Sc	(nγ)^{46}Sc	8.7610e+00	3.5	4.0	0.0200	0.01	2.3e−05	
	1.3476e+01	−1.7809e−02	3.3748e−01	2.2851e+00	−4.4595e−01	3.3688e−02	−5.6096e−01	3.7031e+01
	1.00 0.98	0.97 0.97	0.96 0.96	0.95 0.95	0.95 0.94	0.88 0.80	0.72 0.60	0.52 0.46
^{45}Sc	(np)^{45}Ca	5.2600e−01	3.5	3.5	0.0200	0.01	1.3e−03	0
	−6.6424e+01	2.2989e−01	−3.0316e+01	1.1435e+02	−9.3193e+00	6.0326e−01	−3.6275e+01	−6.6424e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{46}Sc	$(n\gamma)^{47}$Sc	1.0644e+01	4.0	3.5	0.0400	0.01	2.6e−05	
	1.7733e+01	−2.1170e−02	1.1570e+00	−3.3967e+00	1.7958e−01	−7.8014e−03	7.8349e−01	4.1525e+01
	0.99 0.96	0.89 0.84	0.79 0.77	0.75 0.73	0.71 0.70	0.63 0.61	0.59 0.57	0.56 0.53
^{46}Sc	$(np)^{46}$Ca	2.1580e+00	4.0	0.0	0.0400	0.01	3.1e−03	0
	7.4170e+01	−6.3247e−01	6.5232e+01	−1.3218e+02	8.0593e+00	−4.2586e−01	5.9091e+01	7.6367e+01
^{46}Sc	$(n\alpha)^{43}$K	4.8100e−01	4.0	1.5	0.0400	0.01	1.7e−02	
	1.6661e+02	−3.8139e+00	2.8857e+02	−4.9027e+02	2.6446e+01	−1.4739e+00	2.4934e+02	1.6614e+02
	1.01 2.60	5.15 6.10	6.41 6.50	6.55 6.63	6.70 6.78	8.05 9.91	12.07 16.17	20.13 23.78
^{47}Sc	$(n\gamma)^{48}$Sc	8.2330e+00	3.5	6.0	0.0300	0.01	2.3e−06	
	1.4329e+01	−1.2782e−02	2.9799e−01	4.3830e−01	4.6874e−02	−2.5590e−02	−2.2728e−01	3.7517e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.92 0.79	0.65 0.51
^{48}Sc	$(n\gamma)^{49}$Sc	1.0131e+01	6.0	3.5	0.0650	0.01	5.6e−06	
	1.7731e+01	−2.6995e−02	2.3286e+00	−6.4432e+00	6.0839e−01	−5.3416e−02	2.1320e+00	4.1891e+01
	1.00 1.00	1.00 1.01	1.01 1.01	1.02 1.04	1.04 1.06	1.18 1.27	1.29 1.24	1.12 0.94
^{48}Sc	$(np)^{48}$Ca	5.0400e−01	6.0	0.0	0.0650	0.01	8.3e−02	0
	1.9367e+02	−1.2014e+00	1.4973e+02	−3.5929e+02	2.4813e+01	−1.5765e+00	1.5192e+02	1.9624e+02
^{49}Sc	$(n\gamma)^{50}$Sc	6.0570e+00	3.5	5.0	0.0900	0.01	1.4e−04	
	2.3524e+01	−8.3182e−02	7.9096e+00	−2.0481e+01	1.9299e+00	−1.4780e−01	7.4351e+00	4.6881e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.95 0.75
^{50}Sc	$(n\gamma)^{51}$Sc	6.7530e+00	5.0	3.5	0.2750	0.01	9.3e−05	
	2.2796e+01	−8.1821e−02	7.7499e+00	−1.9107e+01	1.6014e+00	−1.2103e−01	7.1805e+00	4.6791e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.01	1.03 1.04	1.04 1.04	0.95 0.77
^{51}Sc	$(n\gamma)^{52}$Sc	5.3080e+00	3.5	3.0	0.2450	0.01	2.2e−05	
	1.0363e+01	9.0983e−03	−1.8051e+00	4.0023e+00	−9.3596e−02	−2.3903e−02	−2.0252e+00	3.4173e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.98	0.93 0.80	0.64 0.50
^{52}Sc	$(n\gamma)^{53}$Sc	6.3850e+00	3.0	3.5	0.2600	0.01	1.4e−06	
	1.6588e+01	−2.8600e−02	2.3888e+00	−6.5992e+00	4.7557e−01	−4.8018e−02	2.1569e+00	4.0131e+01
	1.03 1.06	1.09 1.11	1.12 1.13	1.13 1.13	1.14 1.13	1.08 1.00	0.91 0.73	0.56 0.42
^{53}Sc	$(n\gamma)^{54}$Sc	3.3020e+00	3.5	1.0	0.2200	0.01	3.3e−05	
	1.8263e+01	−4.2007e−02	4.0652e+00	−1.3384e+01	1.6531e+00	−1.5246e−01	4.1340e+00	4.2922e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.04 1.06	0.99 0.77
^{54}Sc	$(n\gamma)^{55}$Sc	2.5760e+00	1.0	3.5	0.5400	0.01	2.8e−06	0
	1.9138e+01	−1.8177e−02	2.6208e+00	−1.3445e+01	1.1054e+00	−7.9959e−02	3.5309e+00	4.1835e+01
^{55}Sc	$(n\gamma)^{56}$Sc	2.7430e+00	3.5	3.0	1.4450	0.01	8.7e−06	0
	1.6213e+01	−3.2989e−02	3.0244e+00	−1.0370e+01	1.1861e+00	−1.1552e−01	3.0534e+00	4.0026e+01
^{56}Sc	$(n\gamma)^{57}$Sc	4.6680e+00	3.0	3.5	0.5900	0.01	3.1e−06	0
	1.8772e+01	−2.4798e−02	2.6317e+00	−9.7858e+00	6.3958e−01	−5.2723e−02	2.9064e+00	4.2318e+01
^{57}Sc	$(n\gamma)^{58}$Sc	2.2240e+00	3.5	4.0	0.1850	0.01	4.1e−06	0
	1.5839e+01	−3.8807e−02	3.5135e+00	−1.1428e+01	1.2981e+00	−1.2705e−01	3.4635e+00	3.9401e+01
^{58}Sc	$(n\gamma)^{59}$Sc	4.4660e+00	4.0	3.5	0.7500	0.01	3.6e−06	0
	1.7460e+01	−1.8812e−02	1.9708e+00	−8.2467e+00	5.6245e−01	−5.1324e−02	2.2635e+00	4.1258e+01
^{59}Sc	$(n\gamma)^{60}$Sc	1.9160e+00	3.5	3.0	0.2100	0.01	5.6e−06	0
	1.5708e+01	−4.2706e−02	3.8890e+00	−1.2503e+01	1.4780e+00	−1.4610e−01	3.8257e+00	3.9522e+01
^{60}Sc	$(n\gamma)^{61}$Sc	4.2620e+00	3.0	3.5	0.9250	0.01	2.3e−06	0
	1.7843e+01	−1.5468e−02	1.9352e+00	−9.7126e+00	6.7285e−01	−5.5905e−02	2.5098e+00	4.1391e+01
^{61}Sc	$(n\gamma)^{62}$Sc	3.7500e−01	3.5	1.0	0.5500	0.01	3.5e−05	0
	−1.5756e+00	6.2991e−03	−2.0579e+00	5.1758e+00	1.0777e+00	−1.8202e−01	−2.5800e+00	2.3087e+01
^{62}Sc	$(n\gamma)^{63}$Sc	3.0670e+00	1.0	0.5	2.4500	0.01	2.6e−05	0
	2.3128e+01	1.9198e−02	2.0786e−01	−1.4684e+01	1.5115e+00	−1.1850e−01	2.4998e+00	4.7215e+01
^{63}Sc	$(n\gamma)^{64}$Sc	7.8300e−01	0.5	2.0	0.5750	0.01	4.6e−05	0
	1.6697e+01	−8.0798e−03	2.0526e+00	−1.4879e+01	1.9825e+00	−1.8735e−01	3.4307e+00	3.9463e+01
^{64}Sc	$(n\gamma)^{65}$Sc	2.6690e+00	2.0	0.5	2.4650	0.01	2.3e−06	0
	1.9573e+01	−3.5673e−02	4.1590e+00	−1.6014e+01	1.3279e+00	−1.0537e−01	4.7773e+00	4.4172e+01
^{65}Sc	$(n\gamma)^{66}$Sc	2.7900e−01	0.5	2.0	n.c.	0.01	7.3e−05	0
	−4.5798e+00	2.9152e−02	−4.3382e+00	1.1647e+01	−3.5974e−02	−7.6646e−02	−4.8082e+00	1.8187e+01
^{66}Sc	$(n\gamma)^{67}$Sc	2.2700e+00	2.0	0.5	n.c.	0.01	1.6e−06	0
	2.0088e+01	−4.5327e−02	5.1625e+00	−1.8698e+01	1.5909e+00	−1.2404e−01	5.7634e+00	4.4687e+01
^{68}Sc	$(n\gamma)^{69}$Sc	1.8190e+00	4.0	0.5	n.c.	0.01	3.6e−06	0
	1.5242e+01	−4.0082e−02	4.1363e+00	−1.4061e+01	1.3592e+00	−1.1854e−01	4.3683e+00	4.0429e+01
^{70}Sc	$(n\gamma)^{71}$Sc	1.2080e+00	4.0	0.5	n.c.	0.01	4.3e−06	0
	1.2867e+01	−3.3045e−02	3.4201e+00	−1.2692e+01	1.4951e+00	−1.3855e−01	3.7157e+00	3.8056e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{72}Sc	$(n\gamma)^{73}$Sc	1.7300e−01	0.0	0.5	n.c.	0.01	1.8e−04	0
	−4.1520e+00	1.3428e−02	−2.9378e+00	7.5688e+00	2.3786e−01	−7.8496e−02	−3.4847e+00	1.8840e+01
^{44}Ti	$(np)^{44}$Sc	1.0500e+00	0.0	2.0	0.0100	0.01	7.2e−04	
	−1.6463e+01	2.0964e−01	−2.1009e+01	5.4852e+01	−2.8045e+00	9.1519e−02	−2.0942e+01	−1.8072e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.11 1.46	1.81 2.19	2.26 2.14
^{44}Ti	$(n\alpha)^{41}$Ca	3.2360e+00	0.0	3.5	0.0100	0.01	3.7e−03	0
	−8.7608e+00	1.4832e−01	−1.6539e+01	3.6995e+01	−4.1259e−01	−1.0922e−01	−1.5575e+01	−1.2121e+01
^{45}Ti	$(np)^{45}$Sc	2.8450e+00	3.5	3.5	0.0950	0.01	8.8e−06	1
	1.9222e+01	4.1312e−02	−2.0990e+00	1.7336e+00	2.8860e−01	−3.4563e−02	−1.5013e+00	1.9222e+01
^{45}Ti	$(n\alpha)^{42}$Ca	5.1870e+00	3.5	0.0	0.0950	0.01	6.8e−05	0
	2.2962e+01	−4.1957e−02	4.2126e+00	−1.2755e+01	1.3341e+00	−6.9814e−02	4.5071e+00	2.3759e+01
^{46}Ti	$(n\gamma)^{47}$Ti	8.8780e+00	0.0	2.5	0.0200	0.01	1.9e−04	
	1.3360e+01	−2.1683e−02	1.1620e+00	1.2565e+00	−2.6556e−01	1.6836e−02	2.8488e−01	3.5242e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.97 0.89	0.82 0.78	0.77 0.70
^{47}Ti	$(n\gamma)^{48}$Ti	1.1627e+01	2.5	0.0	0.1600	0.01	6.6e−05	
	2.5150e+01	−6.1269e−02	5.9034e+00	−1.6456e+01	1.5007e+00	−1.2411e−01	5.6977e+00	5.0616e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.96 0.94	0.93 0.92	0.86 0.85	0.84 0.79	0.70 0.57
^{47}Ti	$(np)^{47}$Sc	1.8300e−01	2.5	3.5	0.1600	0.01	2.9e−03	0
	7.7822e+01	−5.1025e−01	7.2195e+01	−1.5310e+02	8.9189e+00	−5.1794e−01	7.4082e+01	7.7534e+01
^{47}Ti	$(n\alpha)^{44}$Ca	2.1840e+00	2.5	0.0	0.1600	0.01	5.5e−03	
	−6.1345e+01	2.4153e−01	−4.1777e+01	1.0985e+02	−4.5699e+00	9.4267e−02	−4.3113e+01	−6.0841e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.01	1.21 1.83	2.68 4.94	7.56 9.77
^{48}Ti	$(n\gamma)^{49}$Ti	8.1430e+00	0.0	3.5	0.0400	0.01	1.5e−06	
	1.4563e+01	−2.0075e−02	1.4488e+00	−1.4586e+00	1.9866e−01	−3.9050e−02	9.3048e−01	3.6158e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.95	0.84 0.68
^{49}Ti	$(n\gamma)^{50}$Ti	1.0939e+01	3.5	0.0	0.3300	0.01	3.0e−05	
	1.5286e+01	−1.5425e−02	6.8618e−01	−1.4349e+00	3.4431e−01	−5.5655e−02	2.7858e−01	4.1040e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.86	0.70 0.55
^{49}Ti	$(n\alpha)^{46}$Ca	2.2300e−01	3.5	0.0	0.3300	0.01	4.3e−03	0
	9.6842e+01	−1.1732e+01	3.7259e+02	−4.9833e+02	2.2577e+01	−1.1084e+00	2.7967e+02	9.7630e+01
^{50}Ti	$(n\gamma)^{51}$Ti	6.3720e+00	0.0	1.5	0.0750	0.01	8.5e−06	
	2.0389e+01	−5.0545e−02	5.2299e+00	−1.3753e+01	1.4132e+00	−1.2996e−01	5.1044e+00	4.2679e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.96	0.86 0.68
^{51}Ti	$(n\gamma)^{52}$Ti	7.8090e+00	1.5	0.0	1.0350	0.01	1.7e−05	
	1.6403e+01	−2.6914e−02	2.0147e+00	−5.8123e+00	8.1845e−01	−9.4706e−02	1.7192e+00	4.1466e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.88	0.73 0.55
^{51}Ti	$(n\alpha)^{48}$Ca	1.3500e−01	1.5	0.0	1.0350	0.01	4.6e−03	0
	7.2452e+01	−1.2416e+01	3.4386e+02	−4.4114e+02	1.8781e+01	−9.1151e−01	2.5479e+02	7.2543e+01
^{52}Ti	$(n\gamma)^{53}$Ti	5.4320e+00	0.0	1.5	0.2900	0.01	2.7e−05	
	1.2848e+01	5.2306e−03	−5.8921e−01	2.3921e−01	2.6749e−01	−5.7911e−02	−4.7084e−01	3.5139e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.98	0.95 0.85	0.70 0.51
^{53}Ti	$(n\gamma)^{54}$Ti	6.8540e+00	1.5	0.0	1.1100	0.01	2.8e−06	
	1.5839e+01	−2.0970e−02	1.5765e+00	−5.6379e+00	8.6708e−01	−1.0502e−01	1.4587e+00	4.0903e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.96 0.88	0.71 0.50
^{54}Ti	$(n\gamma)^{55}$Ti	4.1700e+00	0.0	0.5	0.3250	0.01	1.7e−04	
	1.6568e+01	2.5232e−03	2.6625e−01	−6.8382e+00	1.5498e+00	−1.9868e−01	1.0629e+00	3.9553e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.02	1.05 0.95	0.66 0.38
^{55}Ti	$(n\gamma)^{56}$Ti	5.4970e+00	0.5	0.0	1.7600	0.01	7.5e−05	
	1.2591e+00	5.5037e−02	−7.1322e+00	1.7849e+01	−1.0283e+00	9.5700e−03	−7.4459e+00	2.5631e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.07 1.12	1.09 0.86	0.59 0.36
^{56}Ti	$(n\gamma)^{57}$Ti	2.1940e+00	0.0	1.5	1.1300	0.01	9.5e−05	0
	2.0333e+01	−5.1596e−02	5.4781e+00	−1.9275e+01	2.6437e+00	−2.7063e−01	5.8862e+00	4.2626e+01
^{57}Ti	$(n\gamma)^{58}$Ti	5.9360e+00	1.5	0.0	3.8400	0.01	9.1e−06	0
	9.6656e+00	6.4607e−03	−1.6834e+00	3.1453e+00	1.5511e−01	−6.9680e−02	−1.9121e+00	3.4732e+01
^{58}Ti	$(n\gamma)^{59}$Ti	2.4240e+00	0.0	1.5	0.6500	0.01	1.8e−04	0
	2.4587e+01	−6.5935e−02	7.3448e+00	−2.5576e+01	3.3066e+00	−3.3266e−01	7.9993e+00	4.6881e+01
^{59}Ti	$(n\gamma)^{60}$Ti	5.5450e+00	1.5	0.0	3.4100	0.01	4.5e−05	0
	7.8237e+00	1.9409e−02	−3.0333e+00	5.8735e+00	1.0169e−01	−8.1003e−02	−3.1589e+00	3.2891e+01
^{60}Ti	$(n\gamma)^{61}$Ti	2.1190e+00	0.0	0.5	0.9000	0.01	1.8e−04	0
	2.8051e+01	−1.0134e−01	1.0889e+01	−3.4396e+01	4.0236e+00	−3.7826e−01	1.1368e+01	5.1039e+01
^{61}Ti	$(n\gamma)^{62}$Ti	4.7600e+00	0.5	0.0	4.3450	0.01	1.9e−04	0

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.1719e+00	4.8073e−02	−6.5428e+00	1.6272e+01	−8.1675e−01	−2.0559e−02	−6.9210e+00	2.5546e+01
^{62}Ti	(nγ)^{63}Ti	9.3600e−01	0.0	4.5	1.5950	0.01	3.7e−04	0
	4.6383e+01	−3.3623e−01	3.5434e+01	−8.3009e+01	7.2730e+00	−5.9640e−01	3.3827e+01	6.7763e+01
^{63}Ti	(nγ)^{64}Ti	4.5940e+00	4.5	0.0	6.0300	0.01	5.7e−05	0
	1.7246e+00	3.2147e−02	−4.6313e+00	1.0217e+01	8.0269e−02	−9.0941e−02	−4.8543e+00	2.7709e+01
^{64}Ti	(nγ)^{65}Ti	4.0900e−01	0.0	1.5	2.4700	0.01	2.0e−04	0
	2.5480e+01	−1.0722e−01	1.1797e+01	−3.8199e+01	5.1141e+00	−4.9014e−01	1.2489e+01	4.7776e+01
^{65}Ti	(nγ)^{66}Ti	3.9150e+00	1.5	0.0	6.8450	0.01	1.7e−05	0
	1.0189e+01	−1.8711e−02	9.7880e−01	−3.1377e+00	5.0562e−01	−8.6956e−02	6.4703e−01	3.5258e+01
^{66}Ti	(nγ)^{67}Ti	3.9100e−01	0.0	2.5	3.1750	0.01	4.9e−04	0
	1.8115e+01	−6.6110e−02	7.7214e+00	−2.5625e+01	3.7909e+00	−3.9381e−01	8.3910e+00	4.0007e+01
^{67}Ti	(nγ)^{68}Ti	3.0870e+00	2.5	0.0	8.0750	0.01	2.8e−05	0
	1.4184e+01	2.8898e−03	5.9653e−01	−9.3107e+00	1.6310e+00	−1.8898e−01	1.7033e+00	3.9660e+01
^{68}Ti	(nγ)^{69}Ti	9.3000e−02	0.0	3.5	4.4050	0.01	3.2e−04	0
	2.1098e+01	−1.8093e−01	1.9744e+01	−4.3025e+01	4.4097e+00	−4.2330e−01	1.8731e+01	4.2703e+01
^{69}Ti	(nγ)^{70}Ti	2.8070e+00	3.5	0.0	8.9550	0.01	2.0e−05	0
	1.1838e+01	5.6179e−03	2.7200e−02	−7.8951e+00	1.8253e+00	−2.1443e−01	1.0339e+00	3.7602e+01
^{71}Ti	(nγ)^{72}Ti	2.4180e+00	4.5	0.0	10.3800	0.01	9.8e−04	0
	−4.0704e+01	6.7831e−01	−5.9126e+01	1.0703e+02	−5.7473e+00	2.4363e−01	−4.8681e+01	−1.4716e+01
^{73}Ti	(nγ)^{74}Ti	8.0300e−01	0.5	0.0	n.c.	0.01	9.5e−05	0
	4.2152e−01	−2.8551e−02	3.8140e−01	2.2640e+00	4.0693e−01	−9.9547e−02	−9.6981e−01	2.4800e+01
^{46}V	(np)^{46}Ti	7.8330e+00	0.0	0.0	0.0100	0.01	1.2e−05	
	1.7546e+01	7.9813e−02	−5.4314e+00	8.8000e+00	−4.2222e−01	2.1131e−02	−4.3436e+00	1.7546e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.00	0.96 0.89	0.86 0.83
^{46}V	(nα)^{43}Sc	4.7600e+00	0.0	3.5	0.0100	0.01	7.1e−03	0
	−4.2800e+01	4.3508e−01	−4.6763e+01	1.0947e+02	−6.5984e+00	3.3808e−01	−4.4575e+01	−4.6164e+01
^{47}V	(np)^{47}Ti	3.7100e+00	1.5	2.5	0.0150	0.01	2.5e−06	
	2.1716e+01	2.6393e−02	−4.2616e−01	−2.0638e+00	4.1675e−01	−3.2302e−02	1.2335e−01	2.1310e+01
	1.00 1.01	1.02 1.04	1.05 1.07	1.08 1.10	1.10 1.11	1.15 1.16	1.15 1.12	1.09 1.07
^{47}V	(nα)^{44}Sc	1.4580e+00	1.5	2.0	0.0150	0.01	6.2e−03	0
	−2.0789e+02	7.6526e−01	−1.0083e+02	3.2490e+02	−2.3378e+01	1.3551e+00	−1.1210e+02	−2.0940e+02
^{48}V	(nγ)^{49}V	1.1553e+01	4.0	3.5	0.0200	0.01	2.2e−04	
	2.0955e+01	−7.5971e−02	6.3414e+00	−1.0869e+01	3.4671e−01	−3.2100e−03	5.0472e+00	4.4747e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.88 0.76	0.68 0.61	0.58 0.54
^{48}V	(np)^{48}Ti	4.7950e+00	4.0	0.0	0.0200	0.01	2.3e−04	0
	1.4377e+01	3.4065e−02	−2.6220e+00	8.0864e+00	−6.7537e−01	5.4289e−02	−3.0034e+00	1.6574e+01
^{48}V	(nα)^{45}Sc	2.2410e+00	4.0	3.5	0.0200	0.01	2.9e−03	
	−9.8434e+01	6.6228e−01	−7.1295e+01	1.8242e+02	−1.0525e+01	5.1078e−01	−7.1051e+01	−9.9606e+01
	1.00 1.00	1.00 1.00	1.01 1.02	1.05 1.11	1.19 1.30	3.59 5.68	6.85 8.44	10.07 11.65
^{49}V	(nγ)^{50}V	9.3330e+00	3.5	6.0	0.0100	0.01	4.5e−05	
	1.8159e+01	−1.1382e−02	6.3980e−01	−3.2930e+00	4.1625e−01	−4.7237e−02	5.8166e−01	4.1349e+01
	1.00 1.00	1.00 0.98	0.97 0.95	0.94 0.92	0.91 0.90	0.84 0.81	0.77 0.70	0.62 0.52
^{49}V	(np)^{49}Ti	1.3840e+00	3.5	3.5	0.0100	0.01	1.9e−04	0
	1.3033e+01	7.1791e−02	−5.2109e+00	6.2326e+00	7.1775e−01	−8.1880e−02	−4.1577e+00	1.3033e+01
^{50}V	(nγ)^{51}V	1.1051e+01	6.0	3.5	0.0300	0.01	3.5e−06	
	2.5107e+01	−1.0269e−01	9.4199e+00	−2.0023e+01	1.3235e+00	−8.6331e−02	8.2739e+00	4.9268e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.95	0.94 0.91	0.85 0.75
^{50}V	(np)^{50}Ti	2.9900e+00	6.0	0.0	0.0300	0.01	1.6e−02	0
	−1.8104e+00	−1.7688e−01	1.5866e+01	1.7683e+00	−2.7941e+00	3.0124e−01	9.5549e+00	7.5453e−01
^{50}V	(nα)^{47}Sc	7.6000e−01	6.0	3.5	0.0300	0.01	8.3e−03	
	4.7695e+01	−2.5945e+00	2.1271e+02	−2.8150e+02	1.1075e+01	−4.8195e−01	1.6773e+02	4.6887e+01
	1.00 1.06	2.32 5.12	6.57 7.19	7.73 8.17	8.51 8.79	11.61 15.48	20.00 29.60	38.88 47.51
^{51}V	(nγ)^{52}V	7.3110e+00	3.5	3.0	0.0350	0.01	3.3e−05	
	2.3395e+01	−7.5036e−02	7.0111e+00	−1.7016e+01	1.3905e+00	−1.0559e−01	6.4281e+00	4.7205e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.96 0.92	0.91 0.86	0.80 0.66
^{52}V	(nγ)^{53}V	8.4790e+00	3.0	3.5	0.0850	0.01	3.2e−06	
	1.9397e+01	−5.8561e−02	4.2893e+00	−1.0001e+01	9.0175e−01	−7.2857e−02	3.3901e+00	4.2940e+01
	0.94 0.86	0.83 0.82	0.82 0.81	0.81 0.81	0.81 0.81	0.82 0.83	0.83 0.83	0.78 0.69
^{52}V	(nα)^{49}Sc	7.6200e−01	3.0	3.5	0.0850	0.01	2.9e−02	0
	−1.3005e+01	−2.2017e+00	1.7478e+02	−1.7599e+02	2.9240e+00	4.5950e−02	1.2748e+02	−1.4435e+01
^{53}V	(nγ)^{54}V	6.1140e+00	3.5	3.0	0.0450	0.01	2.0e−05	

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	2.5180e+01	−5.2047e−02	5.6644e+00	−1.8900e+01	1.8625e+00	−1.5279e−01	6.0526e+00	4.8991e+01
	1.00 1.00	0.99 0.99	0.97 0.96	0.95 0.94	0.93 0.92	0.86 0.84	0.83 0.81	0.74 0.60
^{54}V	(nγ)^{55}V	7.3320e+00	3.0	3.5	0.0950	0.01	1.4e−05	
	2.3917e+01	−6.6538e−02	6.6483e+00	−1.7019e+01	1.1858e+00	−9.4242e−02	6.3746e+00	4.7461e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.98	0.97 0.96	0.85 0.77	0.71 0.59	0.47 0.35
^{55}V	(nγ)^{56}V	5.0810e+00	3.5	2.0	0.0550	0.01	7.6e−06	
	1.8647e+01	−2.7763e−02	2.7096e+00	−9.4212e+00	1.0296e+00	−1.0515e−01	2.8212e+00	4.2796e+01
	1.02 1.04	1.06 1.07	1.08 1.09	1.10 1.10	1.11 1.11	1.12 1.10	1.07 0.96	0.77 0.55
^{56}V	(nγ)^{57}V	6.1910e+00	2.0	1.5	0.1400	0.01	2.2e−06	
	1.9206e+01	−3.0055e−02	3.0261e+00	−8.6968e+00	5.0679e−01	−5.1275e−02	3.0139e+00	4.3109e+01
	1.04 1.09	1.13 1.16	1.18 1.20	1.21 1.22	1.22 1.22	1.12 0.99	0.87 0.64	0.45 0.31
^{57}V	(nγ)^{58}V	4.1090e+00	1.5	2.0	0.0800	0.01	5.0e−06	
	1.8209e+01	−2.5989e−02	2.7772e+00	−9.7122e+00	9.1579e−01	−9.7007e−02	2.9988e+00	4.1666e+01
	1.06 1.14	1.20 1.24	1.27 1.29	1.30 1.31	1.31 1.32	1.28 1.19	1.09 0.87	0.62 0.40
^{58}V	(nγ)^{59}V	5.6680e+00	2.0	1.5	0.2900	0.01	2.4e−06	0
	1.6201e+01	−1.3822e−02	1.2048e+00	−4.1443e+00	2.5264e−01	−4.5832e−02	1.1993e+00	4.0105e+01
^{59}V	(nγ)^{60}V	3.2280e+00	1.5	1.0	0.1000	0.01	9.8e−06	0
	1.8782e+01	−4.7128e−02	4.6606e+00	−1.2905e+01	1.1936e+00	−1.2209e−01	4.5414e+00	4.2751e+01
^{60}V	(nγ)^{61}V	5.6910e+00	1.0	2.5	0.2800	0.01	3.1e−05	0
	2.8178e+01	−1.6572e−03	2.9128e+00	−1.8632e+01	1.4456e+00	−1.1053e−01	5.0347e+00	5.1165e+01
^{61}V	(nγ)^{62}V	3.0620e+00	2.5	3.0	0.0750	0.01	1.2e−05	0
	1.7230e+01	−2.8206e−02	2.7801e+00	−1.0218e+01	1.2106e+00	−1.3496e−01	2.9588e+00	4.0757e+01
^{62}V	(nγ)^{63}V	5.1900e+00	3.0	1.5	0.3750	0.01	9.0e−07	0
	1.8470e+01	−2.0391e−02	2.2439e+00	−8.7295e+00	5.7173e−01	−5.7119e−02	2.5480e+00	4.2712e+01
^{63}V	(nγ)^{64}V	1.6700e+00	1.5	2.0	0.1300	0.01	3.9e−05	0
	1.1501e+01	−3.5486e−02	2.5550e+00	−6.3033e+00	9.7589e−01	−1.2500e−01	2.0194e+00	3.4960e+01
^{64}V	(nγ)^{65}V	4.6720e+00	2.0	1.5	0.7950	0.01	1.3e−05	0
	2.5559e+01	−1.4651e−02	3.2171e+00	−1.7755e+01	1.4207e+00	−1.0887e−01	4.7635e+00	4.9465e+01
^{65}V	(nγ)^{66}V	2.4040e+00	1.5	0.0	0.1300	0.01	9.6e−06	0
	1.6747e+01	−1.9980e−02	2.4902e+00	−1.1121e+01	1.1785e+00	−1.2209e−01	3.0648e+00	4.1816e+01
^{66}V	(nγ)^{67}V	3.3330e+00	0.0	1.5	1.0450	0.01	3.4e−05	0
	2.4556e+01	6.5168e−02	−2.6112e+00	−1.1508e+01	1.3219e+00	−1.2057e−01	9.1579e−01	4.6853e+01
^{67}V	(nγ)^{68}V	1.5940e+00	1.5	3.0	0.4300	0.01	1.1e−05	0
	1.6904e+01	−2.3111e−02	2.9277e+00	−1.3111e+01	1.4767e+00	−1.4506e−01	3.6190e+00	4.0028e+01
^{68}V	(nγ)^{69}V	3.3840e+00	3.0	1.5	1.3700	0.01	4.0e−06	0
	1.8732e+01	−2.6629e−02	3.2212e+00	−1.2759e+01	9.9819e−01	−8.6258e−02	3.7793e+00	4.2976e+01
^{69}V	(nγ)^{70}V	1.0060e+00	1.5	2.0	0.6050	0.01	2.8e−05	0
	1.5077e+01	−3.6426e−02	3.8067e+00	−1.4574e+01	1.9561e+00	−1.9856e−01	4.1865e+00	3.8538e+01
^{70}V	(nγ)^{71}V	2.7560e+00	2.0	1.5	2.4750	0.01	1.8e−06	0
	1.9981e+01	−3.1210e−02	3.9643e+00	−1.5837e+01	1.3185e+00	−1.0857e−01	4.7223e+00	4.3888e+01
^{71}V	(nγ)^{72}V	9.0100e−01	1.5	5.0	1.0700	0.01	1.8e−05	0
	1.2865e+01	2.1020e−02	−6.3233e−01	−7.8415e+00	1.4653e+00	−1.6127e−01	9.3124e−01	3.5538e+01
^{72}V	(nγ)^{73}V	2.3810e+00	5.0	1.5	3.2100	0.01	3.5e−06	0
	1.3335e+01	−7.4482e−03	1.2198e+00	−7.8117e+00	8.7878e−01	−9.1443e−02	1.8374e+00	3.8032e+01
^{74}V	(nγ)^{75}V	7.4500e−01	2.0	1.5	n.c.	0.01	3.0e−05	0
	1.4900e+01	−6.5681e−02	6.2586e+00	−1.8968e+01	2.1078e+00	−1.8712e−01	6.1582e+00	3.8808e+01
^{76}V	(nγ)^{77}V	2.4300e−01	0.0	1.5	n.c.	0.01	3.5e−04	0
	−1.6391e+01	2.0459e−01	−2.0156e+01	3.9311e+01	−1.6919e+00	2.6332e−02	−1.7968e+01	5.9084e+00
^{48}Cr	(np)^{48}V	2.4420e+00	0.0	4.0	0.0100	0.01	2.2e−04	
	5.0838e+00	8.5839e−02	−8.2580e+00	2.2118e+01	−9.2275e−01	1.5822e−02	−8.5736e+00	2.8866e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.13 1.36	1.52 1.69	1.72 1.66
^{48}Cr	(nα)^{45}Ti	1.8390e+00	0.0	3.5	0.0100	0.01	1.4e−02	0
	−2.1056e+02	9.4767e−01	−1.1482e+02	3.4758e+02	−2.6018e+01	1.6491e+00	−1.2346e+02	−2.1393e+02
^{49}Cr	(np)^{49}V	3.4130e+00	2.5	3.5	0.0750	0.01	1.2e−05	1
	2.1992e+01	2.7971e−02	−7.3856e−01	−1.8291e+00	5.4692e−01	−5.0268e−02	−1.8038e−01	2.1705e+01
^{49}Cr	(nα)^{46}Ti	4.4460e+00	2.5	0.0	0.0750	0.01	1.3e−04	0
	1.3613e+01	3.3053e−02	−1.5333e+00	−1.2523e+00	1.4412e+00	−1.2423e−01	−8.2167e−01	1.4113e+01
^{50}Cr	(nγ)^{51}Cr	9.2620e+00	0.0	3.5	0.0150	0.01	2.1e−05	
	2.2189e+01	−7.4017e−02	6.9853e+00	−1.4324e+01	1.1014e+00	−9.3173e−02	6.1599e+00	4.3786e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	0.93 0.75
^{50}Cr	(nα)^{47}Ti	3.2400e−01	0.0	2.5	0.0150	0.01	7.7e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.4806e+02	−9.0682e+00	3.6822e+02	−5.4952e+02	2.6412e+01	−1.3590e+00	2.9550e+02	1.4497e+02
^{51}Cr	$(n\gamma)^{52}$Cr	1.2040e+01	3.5	0.0	0.1400	0.01	2.2e−05	
	1.5155e+01	−3.9623e−02	2.2844e+00	−1.1861e+00	−1.1543e−02	−1.9103e−02	1.0450e+00	4.0911e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.91 0.77	0.62 0.48
^{51}Cr	$(np)^{51}$V	1.5350e+00	3.5	3.5	0.1400	0.01	3.5e−04	0
	7.1755e+00	6.4549e−02	−5.9114e+00	1.4279e+01	−1.2570e−01	−3.5837e−02	−6.0388e+00	7.1755e+00
^{51}Cr	$(n\alpha)^{48}$Ti	2.6890e+00	3.5	0.0	0.1400	0.01	4.7e−03	
	−3.5857e+01	3.4444e−01	−3.3934e+01	7.5138e+01	−1.7376e+00	−8.6162e−02	−3.1905e+01	−3.5073e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.84 3.64	5.68 9.69	13.31 16.06
^{52}Cr	$(n\gamma)^{53}$Cr	7.9390e+00	0.0	1.5	0.0300	0.01	1.3e−04	
	1.8891e+01	−3.7840e−02	3.6832e+00	−8.5718e+00	9.1727e−01	−1.0231e−01	3.3879e+00	4.1182e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.88	0.69 0.52
^{53}Cr	$(n\gamma)^{54}$Cr	9.7190e+00	1.5	0.0	0.3450	0.01	6.2e−06	
	1.4069e+01	−2.0162e−02	8.5998e−01	8.5450e−02	−1.2959e−02	−2.0691e−02	1.3090e−01	3.9133e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.95	0.90 0.77	0.63 0.49
^{53}Cr	$(n\alpha)^{50}$Ti	1.7910e+00	1.5	0.0	0.3450	0.01	7.9e−03	0
	−2.0169e+02	1.1502e+00	−1.2913e+02	3.4815e+02	−2.3071e+01	1.2842e+00	−1.3155e+02	−2.0160e+02
^{54}Cr	$(n\gamma)^{55}$Cr	6.2460e+00	0.0	1.5	0.0950	0.01	9.8e−05	
	1.7187e+01	−1.3186e−02	1.6886e+00	−5.1203e+00	3.9942e−01	−4.0736e−02	1.8471e+00	3.9479e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.98 0.95	0.90 0.85	0.77 0.62
^{55}Cr	$(n\gamma)^{56}$Cr	8.2570e+00	1.5	0.0	0.5450	0.01	1.5e−04	
	2.6128e+01	−9.3714e−02	9.2133e+00	−2.2717e+01	1.6767e+00	−1.2049e−01	8.6839e+00	5.1193e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.98 0.98	0.87 0.79	0.74 0.70	0.64 0.51
^{55}Cr	$(n\alpha)^{52}$Ti	7.0000e−03	1.5	0.0	0.5450	0.01	6.9e−03	0
	−3.3278e+01	−1.6747e+01	2.7025e+02	−2.5037e+02	6.1656e+00	−1.1354e−01	1.7604e+02	−3.3194e+01
^{56}Cr	$(n\gamma)^{57}$Cr	5.1750e+00	0.0	1.5	0.1300	0.01	2.6e−05	
	1.5868e+01	1.5980e−02	−9.1907e−01	−2.4673e+00	7.2609e−01	−1.0014e−01	−1.3004e−01	3.8161e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.91	0.78 0.55
^{57}Cr	$(n\gamma)^{58}$Cr	7.5730e+00	1.5	0.0	0.6250	0.01	1.4e−05	
	1.3729e+01	−1.1624e−02	4.4565e−01	−8.3128e−01	1.9096e−01	−5.5189e−02	1.1099e−01	3.8795e+01
	1.00 1.00	1.00 1.01	1.01 1.02	1.04 1.05	1.07 1.08	1.17 1.17	1.12 0.91	0.65 0.41
^{58}Cr	$(n\gamma)^{59}$Cr	3.9500e+00	0.0	1.5	0.1650	0.01	1.7e−04	
	1.8232e+01	1.6719e−02	−5.7235e−01	−7.1273e+00	1.7310e+00	−2.1841e−01	7.3649e−01	4.0526e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.05 0.95	0.65 0.37
^{59}Cr	$(n\gamma)^{60}$Cr	7.1250e+00	1.5	0.0	0.9500	0.01	3.9e−06	
	1.8826e+01	−3.4056e−02	3.4113e+00	−9.5035e+00	7.2232e−01	−8.3159e−02	3.3530e+00	4.3892e+01
	1.03 1.09	1.15 1.19	1.23 1.26	1.28 1.30	1.31 1.32	1.30 1.19	1.07 0.79	0.52 0.31
^{60}Cr	$(n\gamma)^{61}$Cr	4.0100e+00	0.0	1.5	0.1650	0.01	2.0e−04	0
	2.2069e+01	2.1252e−03	1.2855e+00	−1.3666e+01	2.5062e+00	−2.9347e−01	2.8518e+00	4.4364e+01
^{61}Cr	$(n\gamma)^{62}$Cr	6.4780e+00	1.5	0.0	1.0300	0.01	2.8e−05	0
	2.5345e+01	−7.0707e−02	7.8578e+00	−2.1270e+01	1.6121e+00	−1.4170e−01	7.9626e+00	5.0413e+01
^{62}Cr	$(n\gamma)^{63}$Cr	2.9130e+00	0.0	1.5	0.2250	0.01	4.0e−04	0
	−6.9917e+00	1.2778e−01	−1.3852e+01	3.3986e+01	−2.3516e+00	1.1053e−01	−1.3552e+01	1.5304e+01
^{63}Cr	$(n\gamma)^{64}$Cr	6.9940e+00	1.5	0.0	1.3300	0.01	5.6e−06	0
	2.8292e+01	−6.0071e−02	7.2821e+00	−2.5523e+01	2.1126e+00	−1.6423e−01	8.1937e+00	5.3360e+01
^{64}Cr	$(n\gamma)^{65}$Cr	1.8610e+00	0.0	0.5	0.3150	0.01	1.4e−03	0
	4.0980e+01	−1.9412e−01	2.0655e+01	−5.9104e+01	6.2518e+00	−5.4037e−01	2.0884e+01	6.3969e+01
^{65}Cr	$(n\gamma)^{66}$Cr	5.6610e+00	0.5	0.0	3.4650	0.01	5.5e−05	0
	4.8774e+00	3.5561e−02	−4.5636e+00	1.2071e+01	−9.6048e−01	1.7991e−02	−4.8037e+00	2.9253e+01
^{66}Cr	$(n\gamma)^{67}$Cr	2.2370e+00	0.0	1.5	0.5250	0.01	3.6e−04	0
	2.6025e+01	−5.8638e−02	7.0882e+00	−2.7540e+01	3.8329e+00	−4.0661e−01	8.1970e+00	4.8321e+01
^{67}Cr	$(n\gamma)^{68}$Cr	4.9140e+00	1.5	0.0	3.3600	0.01	3.5e−05	0
	5.2947e+00	4.7539e−02	−5.4068e+00	1.0463e+01	−2.4226e−01	−6.2333e−02	−5.1053e+00	3.0364e+01
^{68}Cr	$(n\gamma)^{69}$Cr	1.8270e+00	0.0	2.5	1.1950	0.01	2.5e−04	0
	6.7042e+00	5.0562e−02	−4.9319e+00	5.2341e+00	1.0180e+00	−1.9850e−01	−3.9507e+00	2.8596e+01
^{69}Cr	$(n\gamma)^{70}$Cr	4.3330e+00	2.5	0.0	4.9600	0.01	4.3e−05	0
	1.6225e+01	2.9847e−03	3.8177e−01	−9.0360e+00	1.7808e+00	−2.1693e−01	1.4362e+00	4.1701e+01
^{70}Cr	$(n\gamma)^{71}$Cr	1.0450e+00	0.0	3.5	2.3200	0.01	1.7e−04	0
	3.1972e−02	8.8109e−02	−8.4394e+00	1.3555e+01	5.5914e−01	−1.6829e−01	−7.1556e+00	2.1637e+01
^{71}Cr	$(n\gamma)^{72}$Cr	3.6110e+00	3.5	0.0	6.7450	0.01	2.9e−05	0
	1.9952e+01	−6.1833e−02	6.5086e+00	−2.1298e+01	2.6233e+00	−2.6126e−01	6.8148e+00	4.5716e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{72}Cr	$(n\gamma)^{73}$Cr	9.7200e−01	0.0	4.5	3.2400	0.01	1.9e−03	0
	2.7794e+01	−2.9530e−01	2.8151e+01	−5.5774e+01	4.9311e+00	−4.4215e−01	2.4717e+01	4.9176e+01
^{73}Cr	$(n\gamma)^{74}$Cr	3.2830e+00	4.5	0.0	7.4200	0.01	1.3e−02	0
	5.3722e+01	−7.4677e−01	6.8447e+01	−1.2095e+02	6.4791e+00	−3.5664e−01	5.7639e+01	7.9710e+01
^{75}Cr	$(n\gamma)^{76}$Cr	1.5970e+00	0.5	0.0	n.c.	0.01	2.8e−05	0
	5.6846e+00	−4.9253e−02	2.7500e+00	−3.1688e+00	3.6699e−01	−6.8018e−02	1.3729e+00	3.0064e+01
^{77}Cr	$(n\gamma)^{78}$Cr	1.2180e+00	1.5	0.0	n.c.	0.01	2.2e−04	0
	2.3080e+01	−1.3750e−01	1.3147e+01	−3.6219e+01	4.0718e+00	−3.7536e−01	1.2583e+01	4.8152e+01
^{81}Cr	$(n\gamma)^{82}$Cr	3.0900e−01	1.5	0.0	n.c.	0.01	5.5e−05	0
	5.5608e+00	−8.9796e−02	6.9756e+00	−1.4285e+01	2.0465e+00	−2.2798e−01	5.4898e+00	3.0634e+01
^{50}Mn	$(np)^{50}$Cr	8.4150e+00	0.0	0.0	0.0100	0.01	9.2e−06	
	2.0431e+01	6.8463e−02	−4.0599e+00	4.3917e+00	5.1961e−02	−2.0880e−02	−2.8466e+00	2.0431e+01
	1.00 1.00	1.00 1.00	1.01 1.01	1.01 1.00	1.01 1.01	0.99 0.98	0.97 0.96	0.93 0.88
^{50}Mn	$(n\alpha)^{47}$V	5.0290e+00	0.0	1.5	0.0100	0.01	9.8e−04	0
	3.4361e+00	1.0830e−01	−1.1910e+01	2.2262e+01	−3.0360e−01	−1.8104e−02	−1.0482e+01	7.5628e−01
^{51}Mn	$(np)^{51}$Cr	3.9910e+00	2.5	3.5	0.0150	0.01	4.9e−06	
	2.0042e+01	4.8839e−02	−2.6544e+00	2.3844e+00	2.3933e−01	−3.1727e−02	−1.8802e+00	1.9754e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.03	1.04 1.06	1.08 1.05
^{51}Mn	$(n\alpha)^{48}$V	1.8850e+00	2.5	4.0	0.0150	0.01	1.6e−03	0
	−1.6408e+02	7.1149e−01	−8.9190e+01	2.6573e+02	−1.7281e+01	9.1513e−01	−9.5579e+01	−1.6578e+02
^{52}Mn	$(n\gamma)^{53}$Mn	1.2054e+01	6.0	3.5	0.0150	0.01	8.2e−05	
	1.3869e+01	−2.1398e−02	7.8058e−01	1.7827e+00	−3.5848e−01	2.5452e−02	−1.7176e−01	3.8031e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.98 0.91	0.84 0.75	0.70 0.62
^{52}Mn	$(np)^{52}$Cr	5.4940e+00	6.0	0.0	0.0150	0.01	1.9e−04	0
	3.9385e−01	1.2877e−01	−1.2746e+01	3.2921e+01	−2.1570e+00	1.2108e−01	−1.2873e+01	2.9588e+00
^{52}Mn	$(n\alpha)^{49}$V	2.9010e+00	6.0	3.5	0.0150	0.01	3.9e−03	
	−8.2811e+01	6.1450e−01	−6.4489e+01	1.5989e+02	−8.8737e+00	4.1777e−01	−6.3331e+01	−8.3622e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.03 1.06	1.11 1.17	3.23 6.40	8.72 11.21	13.32 14.95
^{53}Mn	$(n\gamma)^{54}$Mn	8.9390e+00	3.5	3.0	0.0150	0.01	1.6e−05	
	2.5175e+01	−1.0713e−01	9.5482e+00	−2.0033e+01	1.5052e+00	−1.1468e−01	8.2337e+00	4.8987e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.97 0.94	0.91 0.86	0.77 0.62
^{53}Mn	$(np)^{53}$Cr	1.3790e+00	3.5	1.5	0.0150	0.01	1.0e−05	0
	1.3890e+01	5.9992e−03	1.4182e+00	−3.7372e+00	1.4626e+00	−1.3731e−01	1.4895e+00	1.4583e+01
^{53}Mn	$(n\alpha)^{50}$V	1.8000e−01	3.5	6.0	0.0150	0.01	5.7e−03	
	−4.5627e+01	−1.5293e+01	2.7024e+02	−2.3611e+02	5.1477e+00	−8.9141e−02	1.7301e+02	−4.7411e+01
	1.00 1.06	1.10 1.17	1.39 1.92	2.65 3.39	4.03 4.54	9.12 16.55	26.31 47.97	65.05 71.88
^{54}Mn	$(n\gamma)^{55}$Mn	1.0226e+01	3.0	2.5	0.0300	0.01	1.7e−05	
	2.3790e+01	−5.8441e−02	5.3167e+00	−1.3870e+01	1.0523e+00	−7.6562e−02	4.9135e+00	4.7622e+01
	1.00 0.98	0.96 0.94	0.92 0.90	0.88 0.86	0.86 0.84	0.79 0.76	0.74 0.69	0.63 0.55
^{54}Mn	$(np)^{54}$Cr	2.1590e+00	3.0	0.0	0.0300	0.01	1.1e−04	0
	2.0895e+01	−3.7958e−02	4.9378e+00	−1.2208e+01	1.4921e+00	−1.0473e−01	4.4654e+00	2.2841e+01
^{54}Mn	$(n\alpha)^{51}$V	2.2920e+00	3.0	3.5	0.0300	0.01	9.6e−03	
	−9.9000e+01	7.6110e−01	−7.8570e+01	1.8735e+02	−9.5499e+00	3.6905e−01	−7.5826e+01	−1.0043e+02
	1.00 0.98	0.97 0.99	1.02 1.06	1.13 1.22	1.31 1.41	2.57 3.91	5.35 7.86	9.93 12.04
^{55}Mn	$(n\gamma)^{56}$Mn	7.2710e+00	2.5	3.0	0.0200	0.01	5.4e−05	
	2.4709e+01	−3.3897e−02	3.9431e+00	−1.5013e+01	1.5829e+00	−1.3827e−01	4.4908e+00	4.8234e+01
	1.00 1.00	0.99 0.98	0.96 0.94	0.92 0.91	0.90 0.89	0.86 0.87	0.88 0.85	0.77 0.61
^{56}Mn	$(n\gamma)^{57}$Mn	8.6510e+00	3.0	2.5	0.0450	0.01	4.0e−05	
	3.2725e+01	−1.1464e−01	1.1607e+01	−3.1097e+01	2.4284e+00	−1.6795e−01	1.1327e+01	5.6559e+01
	0.98 0.95	0.93 0.91	0.90 0.88	0.86 0.84	0.82 0.80	0.66 0.62	0.61 0.62	0.60 0.52
^{56}Mn	$(n\alpha)^{53}$V	5.8600e−01	3.0	3.5	0.0450	0.01	1.1e−02	0
	1.8272e+02	−4.1529e+00	3.4111e+02	−5.6510e+02	2.9365e+01	−1.5908e+00	2.9122e+02	1.8128e+02
^{57}Mn	$(n\gamma)^{58}$Mn	6.4890e+00	2.5	3.0	0.0200	0.01	5.2e−05	
	2.0543e+01	1.0252e−02	−3.3902e−01	−7.1514e+00	1.3365e+00	−1.5340e−01	7.5148e−01	4.4068e+01
	1.00 1.00	0.97 0.95	0.92 0.90	0.88 0.87	0.86 0.85	0.85 0.86	0.87 0.81	0.62 0.42
^{58}Mn	$(n\gamma)^{59}$Mn	7.6420e+00	3.0	1.5	0.0500	0.01	7.8e−06	
	1.9505e+01	−2.8976e−02	2.7691e+00	−7.5049e+00	5.5115e−01	−6.7660e−02	2.6472e+00	4.3744e+01
	1.02 1.03	1.05 1.06	1.06 1.07	1.07 1.07	1.07 1.07	1.03 0.95	0.87 0.67	0.46 0.30
^{59}Mn	$(n\gamma)^{60}$Mn	5.3730e+00	1.5	3.0	0.0300	0.01	6.5e−06	
	2.0579e+01	−4.2412e−02	4.4200e+00	−1.1925e+01	9.5691e−01	−9.9531e−02	4.3690e+00	4.3700e+01
	1.02 1.07	1.11 1.15	1.18 1.22	1.24 1.26	1.27 1.29	1.30 1.23	1.13 0.88	0.61 0.38

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{60}Mn	$(n\gamma)^{61}$Mn	6.8670e+00	3.0	2.5	0.0950	0.01	4.1e−06	
	1.8943e+01	−2.8376e−02	2.6630e+00	−7.1218e+00	4.6316e−01	−6.0293e−02	2.5183e+00	4.2778e+01
	1.02 1.04	1.06 1.07	1.08 1.08	1.09 1.09	1.09 1.09	1.02 0.92	0.82 0.60	0.40 0.25
^{61}Mn	$(n\gamma)^{62}$Mn	4.9670e+00	2.5	3.0	0.0300	0.01	4.9e−06	
	1.9589e+01	−3.4554e−02	3.4389e+00	−1.0349e+01	9.6169e−01	−1.0702e−01	3.4460e+00	4.3117e+01
	1.02 1.04	1.06 1.08	1.10 1.11	1.12 1.12	1.13 1.13	1.11 1.04	0.96 0.75	0.51 0.31
^{62}Mn	$(n\gamma)^{63}$Mn	6.3580e+00	3.0	2.5	0.0900	0.01	3.1e−06	0
	2.1156e+01	−4.0730e−02	4.1309e+00	−1.1396e+01	7.6799e−01	−8.0134e−02	4.0714e+00	4.4992e+01
^{63}Mn	$(n\gamma)^{64}$Mn	4.4200e+00	2.5	1.0	0.0350	0.01	1.1e−05	0
	2.4002e+01	−6.0428e−02	6.4750e+00	−1.8321e+01	1.4924e+00	−1.3490e−01	6.5554e+00	4.8377e+01
^{64}Mn	$(n\gamma)^{65}$Mn	5.8640e+00	1.0	2.5	0.0800	0.01	1.5e−04	0
	3.2895e+01	1.8127e−02	2.3264e+00	−2.2467e+01	2.0339e+00	−1.6387e−01	5.5615e+00	5.5884e+01
^{65}Mn	$(n\gamma)^{66}$Mn	3.3790e+00	2.5	0.0	0.0350	0.01	6.0e−06	0
	2.7785e+01	−5.9538e−02	7.3828e+00	−2.4804e+01	2.0722e+00	−1.6587e−01	8.2483e+00	5.3260e+01
^{66}Mn	$(n\gamma)^{67}$Mn	6.2980e+00	0.0	2.5	0.1400	0.01	2.0e−04	0
	6.6921e+00	3.4430e−01	−2.9246e+01	3.7792e+01	−1.4956e+00	3.6497e−02	−2.2165e+01	2.8584e+01
^{67}Mn	$(n\gamma)^{68}$Mn	2.8810e+00	2.5	3.0	0.0450	0.01	1.3e−05	0
	1.3877e+01	−7.9330e−03	4.8772e−01	−4.3890e+00	9.5520e−01	−1.3652e−01	6.5487e−01	3.7406e+01
^{68}Mn	$(n\gamma)^{69}$Mn	5.1660e+00	3.0	2.5	0.3500	0.01	2.3e−06	0
	2.3393e+01	−4.5258e−02	5.1638e+00	−1.6790e+01	1.1699e+00	−9.6530e−02	5.5768e+00	4.7231e+01
^{69}Mn	$(n\gamma)^{70}$Mn	2.6250e+00	2.5	0.0	0.1050	0.01	1.2e−05	0
	1.8028e+01	−3.2750e−02	3.5534e+00	−1.2724e+01	1.4702e+00	−1.5825e−01	3.8767e+00	4.3504e+01
^{70}Mn	$(n\gamma)^{71}$Mn	4.5720e+00	0.0	2.5	0.5500	0.01	1.4e−04	0
	2.2606e+01	1.5496e−01	−1.0274e+01	−2.0897e−01	7.4893e−01	−8.9311e−02	−5.0552e+00	4.4499e+01
^{71}Mn	$(n\gamma)^{72}$Mn	2.1510e+00	2.5	4.0	0.2000	0.01	7.8e−06	0
	1.8446e+01	−4.0961e−02	4.4605e+00	−1.5388e+01	1.6905e+00	−1.6864e−01	4.8149e+00	4.1725e+01
^{72}Mn	$(n\gamma)^{73}$Mn	3.9250e+00	4.0	2.5	1.1150	0.01	1.8e−06	0
	1.6478e+01	−1.3651e−02	1.7275e+00	−7.9979e+00	6.4990e−01	−7.0122e−02	2.1719e+00	4.0569e+01
^{73}Mn	$(n\gamma)^{74}$Mn	1.9610e+00	2.5	2.0	0.4350	0.01	5.2e−06	0
	1.8099e+01	−5.3819e−02	5.4155e+00	−1.6984e+01	1.8179e+00	−1.7359e−01	5.5113e+00	4.1967e+01
^{74}Mn	$(n\gamma)^{75}$Mn	3.4260e+00	2.0	2.5	1.8150	0.01	1.9e−06	0
	1.7599e+01	−1.4675e−02	2.2249e+00	−1.0687e+01	8.7259e−01	−8.1716e−02	2.9512e+00	4.1102e+01
^{75}Mn	$(n\gamma)^{76}$Mn	7.5000e−02	2.5	2.0	n.c.	0.01	1.3e−04	0
	−7.9475e+00	−1.1440e−01	8.2346e+00	−8.7270e−01	2.7116e−01	−8.4734e−02	4.5136e+00	1.5921e+01
^{76}Mn	$(n\gamma)^{77}$Mn	1.4620e+00	2.0	2.5	n.c.	0.01	2.8e−06	0
	1.8052e+01	−5.7484e−02	5.8846e+00	−1.8886e+01	1.8090e+00	−1.5308e−01	6.0805e+00	4.1556e+01
^{78}Mn	$(n\gamma)^{79}$Mn	1.1820e+00	3.0	2.5	n.c.	0.01	6.6e−06	0
	1.7416e+01	−6.8701e−02	6.7179e+00	−2.0253e+01	1.9959e+00	−1.7314e−01	6.6817e+00	4.1257e+01
^{80}Mn	$(n\gamma)^{81}$Mn	8.9300e−01	3.0	2.5	n.c.	0.01	3.1e−04	0
	1.9186e+01	−6.3275e−02	6.8807e+00	−2.5035e+01	2.9230e+00	−2.6753e−01	7.5457e+00	4.3027e+01
^{82}Mn	$(n\gamma)^{83}$Mn	2.3200e−01	3.0	2.5	n.c.	0.01	2.4e−03	0
	−1.9848e+01	1.1018e−01	−1.3191e+01	3.2054e+01	−5.1418e−01	−1.2685e−01	−1.3405e+01	3.9942e+00
^{84}Mn	$(n\gamma)^{85}$Mn	4.1100e−01	1.0	2.5	n.c.	0.01	4.9e−03	0
	−2.4964e+01	2.6035e−01	−2.9885e+01	5.6878e+01	−1.4858e+00	−5.0511e−02	−2.8223e+01	−1.9687e+00
^{52}Fe	$(np)^{52}$Mn	3.1550e+00	0.0	6.0	0.0100	0.01	1.2e−04	
	5.8357e+00	9.6221e−02	−9.1463e+00	2.3083e+01	−1.1063e+00	3.8863e−02	−9.2269e+00	3.2707e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.06 1.19	1.31 1.44	1.50 1.54
^{52}Fe	$(n\alpha)^{49}$Cr	2.6430e+00	0.0	2.5	0.0100	0.01	5.6e−03	0
	−1.2147e+02	7.0757e−01	−8.0000e+01	2.1693e+02	−1.4112e+01	7.8430e−01	−8.1531e+01	−1.2456e+02
^{53}Fe	$(np)^{53}$Mn	4.5240e+00	3.5	3.5	0.0750	0.01	6.1e−07	1
	1.7212e+01	7.3502e−02	−5.1602e+00	8.4322e+00	−2.8195e−01	5.2572e−03	−4.2584e+00	1.7212e+01
^{53}Fe	$(n\alpha)^{50}$Cr	4.9590e+00	3.5	0.0	0.0750	0.01	5.3e−04	0
	4.3658e+00	9.3868e−02	−9.4202e+00	1.6406e+01	5.4451e−01	−1.0457e−01	−8.1998e+00	5.1464e+00
^{54}Fe	$(n\gamma)^{55}$Fe	9.2980e+00	0.0	1.5	0.0150	0.01	4.5e−05	
	2.3088e+01	−7.9318e−02	7.5357e+00	−1.5950e+01	1.3777e+00	−1.2915e−01	6.7075e+00	4.5380e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.92	0.75 0.55
^{54}Fe	$(np)^{54}$Mn	8.5000e−02	0.0	3.0	0.0150	0.01	2.1e−04	0
	1.8684e+01	1.0595e+00	−4.7400e+01	3.2533e+01	−2.3889e+00	9.5679e−02	−1.2143e+01	1.6738e+01
^{54}Fe	$(n\alpha)^{51}$Cr	8.4300e−01	0.0	3.5	0.0150	0.01	3.8e−02	
	1.2250e+01	−2.8561e+00	2.2074e+02	−2.5163e+02	6.9727e+00	−1.8956e−01	1.6630e+02	8.8700e+00
	1.00 1.00	1.00 1.00	1.00 1.04	1.18 1.49	1.98 2.60	10.69 22.21	35.96 59.42	68.59 68.16

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{55}Fe	$(n\gamma)^{56}$Fe	1.1198e+01	1.5	0.0	0.1650	0.01	7.8e−06	
	1.9145e+01	−6.8340e−02	5.3799e+00	−8.7582e+00	5.2851e−01	−4.9737e−02	4.0656e+00	4.4210e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 1.00	0.97 0.92	0.87 0.77	0.66 0.52
^{55}Fe	$(np)^{55}$Mn	1.0140e+00	1.5	2.5	0.1650	0.01	7.9e−04	0
	−3.6823e+01	2.4233e−01	−2.7158e+01	8.0163e+01	−4.8722e+00	2.3152e−01	−2.8949e+01	−3.7228e+01
^{55}Fe	$(n\alpha)^{52}$Cr	3.5850e+00	1.5	0.0	0.1650	0.01	1.4e−03	
	1.8034e+01	7.1719e−02	−1.7535e+00	−1.1165e+01	3.8437e+00	−3.6557e−01	6.6197e−01	1.8118e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.21 1.63	2.23 3.92	6.25 8.67
^{56}Fe	$(n\gamma)^{57}$Fe	7.6460e+00	0.0	0.5	0.0350	0.01	2.9e−05	
	2.1796e+01	−5.8483e−02	5.9786e+00	−1.3385e+01	1.0019e+00	−8.5865e−02	5.5807e+00	4.4782e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.97	0.96 0.93	0.83 0.65
^{56}Fe	$(n\alpha)^{53}$Cr	3.2600e−01	0.0	1.5	0.0350	0.01	3.6e−03	0
	1.0472e+02	−1.2398e+01	4.1482e+02	−5.5146e+02	2.4771e+01	−1.2176e+00	3.1088e+02	1.0203e+02
^{57}Fe	$(n\gamma)^{58}$Fe	1.0045e+01	0.5	0.0	0.2200	0.01	1.9e−05	
	2.6199e+01	−9.0206e−02	8.5392e+00	−2.1186e+01	1.7666e+00	−1.3645e−01	7.9193e+00	5.0572e+01
	0.98 1.03	1.09 1.14	1.17 1.20	1.22 1.24	1.25 1.27	1.36 1.40	1.41 1.39	1.27 0.99
^{57}Fe	$(n\alpha)^{54}$Cr	2.4000e+00	0.5	0.0	0.2200	0.01	1.1e−02	0
	−8.9906e+01	8.1335e−01	−7.7547e+01	1.7397e+02	−7.4529e+00	1.8801e−01	−7.3113e+01	−9.0518e+01
^{58}Fe	$(n\gamma)^{59}$Fe	6.5810e+00	0.0	1.5	0.0750	0.01	5.9e−05	
	1.8306e+01	−2.8418e−02	3.0561e+00	−7.3715e+00	5.7222e−01	−5.7816e−02	2.9658e+00	4.0600e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.95	0.92 0.85	0.75 0.58
^{59}Fe	$(n\gamma)^{60}$Fe	8.8200e+00	1.5	0.0	0.2900	0.01	2.3e−04	
	3.0204e+01	−1.2928e−01	1.2651e+01	−3.0044e+01	2.2611e+00	−1.6967e−01	1.1778e+01	5.5271e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.88 0.80	0.75 0.71	0.62 0.44
^{59}Fe	$(n\alpha)^{56}$Cr	2.7700e−01	1.5	0.0	0.2900	0.01	5.9e−03	0
	−1.7786e+01	−1.5030e+01	3.1726e+02	−3.1733e+02	9.6553e+00	−3.0512e−01	2.1107e+02	−1.7707e+01
^{60}Fe	$(n\gamma)^{61}$Fe	5.5820e+00	0.0	1.5	0.0650	0.01	1.5e−04	
	2.3587e+01	−4.7737e−02	5.5900e+00	−1.7247e+01	1.8038e+00	−1.7166e−01	5.9698e+00	4.5881e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 1.00	0.86 0.56
^{61}Fe	$(n\gamma)^{62}$Fe	8.0520e+00	1.5	0.0	0.4300	0.01	1.1e−05	
	1.6089e+01	−2.1859e−02	1.5079e+00	−4.0351e+00	6.2160e−01	−9.9771e−02	1.1852e+00	4.1157e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.04 1.05	1.01 0.83	0.56 0.32
^{62}Fe	$(n\gamma)^{63}$Fe	4.6860e+00	0.0	2.5	0.0850	0.01	3.0e−04	
	2.4655e+01	−4.0911e−02	5.2751e+00	−1.9102e+01	2.3084e+00	−2.2992e−01	6.0793e+00	4.6545e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.04 1.09	0.92 0.52
^{63}Fe	$(n\gamma)^{64}$Fe	7.4600e+00	2.5	0.0	0.5050	0.01	1.2e−05	
	1.7944e+01	−1.8003e−02	1.8063e+00	−6.8263e+00	8.1654e−01	−1.1086e−01	1.9533e+00	4.3418e+01
	1.01 1.03	1.05 1.06	1.07 1.08	1.09 1.10	1.10 1.11	1.13 1.09	1.02 0.79	0.51 0.29
^{64}Fe	$(n\gamma)^{65}$Fe	4.4580e+00	0.0	0.5	0.0950	0.01	4.4e−04	0
	2.7395e+01	−3.2114e−02	4.9663e+00	−2.2880e+01	3.3038e+00	−3.6097e−01	6.4530e+00	5.0384e+01
^{65}Fe	$(n\gamma)^{66}$Fe	7.1030e+00	0.5	0.0	0.7000	0.01	8.4e−05	0
	2.6232e+00	4.1658e−02	−5.7648e+00	1.8241e+01	−1.5475e+00	5.6958e−02	−6.5089e+00	2.6999e+01
^{66}Fe	$(n\gamma)^{67}$Fe	4.3270e+00	0.0	0.5	0.1350	0.01	3.8e−04	0
	2.5000e+01	−4.4362e−03	2.3597e+00	−1.7524e+01	2.9157e+00	−3.3148e−01	4.1557e+00	4.7990e+01
^{67}Fe	$(n\gamma)^{68}$Fe	6.9000e+00	0.5	0.0	0.6100	0.01	3.3e−05	0
	7.1252e+00	4.0823e−02	−4.5910e+00	1.1065e+01	−8.2651e−01	4.5332e−03	−4.5255e+00	3.1502e+01
^{68}Fe	$(n\gamma)^{69}$Fe	2.9410e+00	0.0	1.5	0.2100	0.01	3.9e−04	0
	3.2635e+01	−8.4769e−02	1.0287e+01	−3.6678e+01	4.6212e+00	−4.5954e−01	1.1591e+01	5.4933e+01
^{69}Fe	$(n\gamma)^{70}$Fe	6.0940e+00	1.5	0.0	1.9850	0.01	1.1e−05	0
	7.6699e+00	3.4488e−02	−4.0486e+00	8.5630e+00	−3.2783e−01	−4.5597e−02	−3.9375e+00	3.2740e+01
^{70}Fe	$(n\gamma)^{71}$Fe	2.9020e+00	0.0	2.5	0.3650	0.01	2.6e−04	0
	1.8567e+01	1.0492e−02	2.8914e−01	−1.1096e+01	2.5247e+00	−3.2058e−01	1.8258e+00	4.0460e+01
^{71}Fe	$(n\gamma)^{72}$Fe	5.5480e+00	2.5	0.0	2.6100	0.01	1.5e−05	0
	1.2409e+01	1.4317e−02	−1.4084e+00	−9.3605e−01	7.6186e−01	−1.3329e−01	−8.9028e−01	3.7885e+01
^{72}Fe	$(n\gamma)^{73}$Fe	2.2470e+00	0.0	3.5	0.8050	0.01	1.6e−04	0
	1.3262e+01	8.5020e−03	−1.9849e−01	−6.4573e+00	2.0693e+00	−2.8253e−01	7.4014e−01	3.4868e+01
^{73}Fe	$(n\gamma)^{74}$Fe	4.9420e+00	3.5	0.0	4.1100	0.01	1.3e−05	0
	1.3133e+01	−1.0027e−02	7.6399e−01	−5.4961e+00	1.1781e+00	−1.5734e−01	9.8221e−01	3.8897e+01
^{74}Fe	$(n\gamma)^{75}$Fe	2.0560e+00	0.0	4.5	1.4250	0.01	1.3e−04	0
	−8.1469e+00	1.0167e−01	−1.1777e+01	2.7557e+01	−5.4278e−01	−1.1375e−01	−1.1704e+01	1.3236e+01
^{75}Fe	$(n\gamma)^{76}$Fe	4.4610e+00	4.5	0.0	5.3200	0.01	2.2e−04	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	4.8440e−01	6.6106e−02	−7.5661e+00	1.3874e+01	1.2826e−01	−1.0252e−01	−7.1001e+00	2.6473e+01
^{76}Fe	(nγ)^{77}Fe	5.8000e−02	0.0	0.5	n.c.	0.01	5.0e−04	0
	1.3459e+01	−2.1396e−01	2.0441e+01	−3.7190e+01	3.8807e+00	−3.8001e−01	1.7598e+01	3.6452e+01
^{77}Fe	(nγ)^{78}Fe	2.2530e+00	0.5	0.0	n.c.	0.01	2.2e−05	0
	8.3162e+00	−3.8744e−02	2.2882e+00	−4.2831e+00	5.8017e−01	−8.5378e−02	1.3976e+00	3.2696e+01
^{79}Fe	(nγ)^{80}Fe	1.5990e+00	1.5	0.0	n.c.	0.01	3.9e−05	0
	1.4099e+01	−7.2724e−02	6.2528e+00	−1.7328e+01	2.2257e+00	−2.3751e−01	5.6965e+00	3.9172e+01
^{81}Fe	(nγ)^{82}Fe	1.5820e+00	0.5	0.0	n.c.	0.01	1.1e−04	0
	2.3371e+01	−1.1447e−01	1.1248e+01	−3.2711e+01	3.5206e+00	−3.2286e−01	1.1070e+01	4.7751e+01
^{83}Fe	(nγ)^{84}Fe	6.6200e−01	1.5	0.0	n.c.	0.01	7.0e−04	0
	2.9913e+01	−1.9205e−01	1.9098e+01	−5.2099e+01	5.7765e+00	−5.2954e−01	1.8533e+01	5.4987e+01
^{85}Fe	(nγ)^{86}Fe	1.3890e+00	1.5	0.0	n.c.	0.01	7.4e−04	0
	5.3897e+01	−3.0106e−01	3.1939e+01	−9.0290e+01	8.7550e+00	−7.0319e−01	3.2159e+01	7.8972e+01
^{87}Fe	(nγ)^{88}Fe	4.8800e−01	1.5	0.0	n.c.	0.01	3.0e−03	0
	5.5460e+01	−3.9020e−01	3.9865e+01	−1.0250e+02	9.2346e+00	−7.0968e−01	3.8550e+01	8.0535e+01
^{89}Fe	(nγ)^{90}Fe	6.1300e−01	2.5	0.0	n.c.	0.01	2.2e−03	0
	4.5981e+01	−5.0787e−01	4.7855e+01	−1.0429e+02	9.4360e+00	−7.6248e−01	4.2768e+01	7.1462e+01
^{54}Co	(np)^{54}Fe	9.0260e+00	0.0	0.0	0.0100	0.01	2.8e−05	
	2.0606e+01	8.7199e−02	−5.4370e+00	5.2898e+00	1.2872e−01	−2.7612e−02	−3.7062e+00	2.0606e+01
	1.00 1.00	1.00 1.00	0.98 0.97	0.95 0.94	0.92 0.91	0.86 0.84	0.84 0.87	0.88 0.88
^{54}Co	(nα)^{51}Mn	5.8780e+00	0.0	2.5	0.0100	0.01	9.1e−05	0
	2.2917e+01	−4.6656e−02	3.8089e+00	−1.5289e+01	2.4180e+00	−1.9056e−01	4.5712e+00	1.9825e+01
^{55}Co	(np)^{55}Fe	4.2340e+00	3.5	1.5	0.0200	0.01	7.0e−06	
	1.8858e+01	4.7624e−02	−2.7482e+00	3.3455e+00	1.5547e−01	−1.8957e−02	−2.1303e+00	1.9551e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.03	1.08 1.12
^{55}Co	(nα)^{52}Mn	2.3240e+00	3.5	6.0	0.0200	0.01	3.5e−03	0
	−6.3254e+01	2.8283e−01	−3.7959e+01	1.0189e+02	−2.6406e+00	−1.3067e−01	−3.8919e+01	−6.5042e+01
^{56}Co	(nγ)^{57}Co	1.1376e+01	4.0	3.5	0.0200	0.01	9.2e−06	
	1.8272e+01	−1.3211e−02	1.2931e+00	−3.7740e+00	3.3201e−01	−3.7865e−02	1.2762e+00	4.2069e+01
	1.00 1.00	1.00 0.99	0.99 0.98	0.98 0.97	0.96 0.95	0.90 0.86	0.82 0.76	0.67 0.56
^{56}Co	(np)^{56}Fe	5.3480e+00	4.0	0.0	0.0200	0.01	5.2e−05	0
	1.8825e+01	4.2334e−02	−2.2586e+00	3.0208e+00	1.3744e−02	−8.2976e−03	−1.7680e+00	2.1023e+01
^{56}Co	(nα)^{53}Mn	4.2950e+00	4.0	3.5	0.0200	0.01	6.3e−04	
	1.6706e+01	1.8993e−02	−6.3620e−01	−6.8394e+00	2.4265e+00	−2.2343e−01	6.2718e−01	1.5520e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.01	1.15 1.47	1.91 2.87	3.85 5.08
^{57}Co	(nγ)^{58}Co	8.5730e+00	3.5	2.0	0.0100	0.01	2.2e−05	
	2.0924e+01	−5.8140e−02	4.9022e+00	−1.0505e+01	1.0116e+00	−1.0629e−01	4.1162e+00	4.5073e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.85	0.68 0.48
^{57}Co	(np)^{57}Fe	1.6180e+00	3.5	0.5	0.0100	0.01	5.2e−04	0
	8.5189e+00	3.2212e−02	−2.7782e+00	8.2444e+00	7.3281e−01	−1.2453e−01	−3.2968e+00	9.9052e+00
^{57}Co	(nα)^{54}Mn	1.8580e+00	3.5	3.0	0.0100	0.01	1.0e−02	
	−2.3284e+02	1.2248e+00	−1.4081e+02	3.9176e+02	−2.5945e+01	1.4108e+00	−1.4564e+02	−2.3401e+02
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	2.23 5.32	9.83 19.91	27.01 27.45
^{58}Co	(nγ)^{59}Co	1.0454e+01	2.0	3.5	0.0200	0.01	1.2e−05	
	2.4296e+01	−4.3343e−02	4.4032e+00	−1.3506e+01	1.2171e+00	−1.0225e−01	4.4753e+00	4.7507e+01
	0.96 0.92	0.89 0.87	0.86 0.84	0.84 0.83	0.83 0.82	0.78 0.75	0.74 0.70	0.63 0.51
^{58}Co	(np)^{58}Fe	3.0900e+00	2.0	0.0	0.0200	0.01	9.5e−05	0
	1.3160e+01	3.2956e−02	−3.6304e+00	7.3744e+00	7.3789e−02	−1.5304e−02	−4.0764e+00	1.4770e+01
^{58}Co	(nα)^{55}Mn	3.5120e+00	2.0	2.5	0.0200	0.01	3.7e−03	
	1.5598e+01	1.1732e−01	−6.6277e+00	−4.5254e+00	4.1235e+00	−4.3635e−01	−3.2280e+00	1.4109e+01
	0.93 0.81	0.75 0.73	0.71 0.71	0.71 0.71	0.71 0.72	0.90 1.35	2.05 3.71	5.26 6.68
^{59}Co	(nγ)^{60}Co	7.4920e+00	3.5	5.0	0.0100	0.01	1.5e−05	
	1.8075e+01	−2.6003e−02	1.9918e+00	−4.9491e+00	6.5808e−01	−9.1166e−02	1.6431e+00	4.1437e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.98	0.94 0.79	0.59 0.39
^{59}Co	(nα)^{56}Mn	3.2900e−01	3.5	3.0	0.0100	0.01	6.0e−03	0
	−8.2679e+01	−1.4499e+01	2.5574e+02	−1.8228e+02	9.1839e−01	1.6315e−01	1.5481e+02	−8.3853e+01
^{60}Co	(nγ)^{61}Co	9.3220e+00	5.0	3.5	0.0250	0.01	5.2e−05	
	3.1892e+01	−1.4268e−01	1.3991e+01	−3.1604e+01	2.1053e+00	−1.4457e−01	1.2873e+01	5.5892e+01
	1.00 1.00	1.02 1.04	1.04 1.05	1.06 1.05	1.04 1.04	0.91 0.79	0.71 0.59	0.47 0.34
^{60}Co	(np)^{60}Fe	5.4500e−01	5.0	0.0	0.0250	0.01	1.7e−03	0
	−6.7918e+01	7.4798e−01	−6.1899e+01	1.4228e+02	−1.0212e+01	6.3379e−01	−5.3082e+01	−6.5520e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{60}Co	(nα)^{57}Mn	1.4870e+00	5.0	2.5	0.0250	0.01	2.1e−02	
	−2.3018e+02	5.2867e−01	−8.7112e+01	3.3136e+02	−2.6283e+01	1.6524e+00	−1.0537e+02	−2.3088e+02
	1.01 1.28	1.76 2.22	2.79 3.59	4.63 5.67	6.62 7.48	13.48 19.59	26.31 40.00	53.53 66.04
^{61}Co	(nγ)^{62}Co	6.6040e+00	3.5	2.0	0.0150	0.01	1.1e−04	
	1.9822e+01	−2.3332e−02	2.2558e+00	−8.0845e+00	1.1951e+00	−1.5429e−01	2.3500e+00	4.3973e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.96 0.77	0.49 0.27
^{62}Co	(nγ)^{63}Co	8.4800e+00	2.0	3.5	0.0250	0.01	1.4e−05	
	9.9692e+00	−3.6846e−03	−1.5396e+00	8.2224e+00	−8.4700e−01	2.7684e−02	−2.6634e+00	3.3181e+01
	0.95 0.88	0.84 0.83	0.81 0.80	0.80 0.80	0.80 0.79	0.77 0.71	0.62 0.44	0.30 0.19
^{63}Co	(nγ)^{64}Co	6.0240e+00	3.5	1.0	0.0150	0.01	1.7e−04	
	1.5938e+01	4.9430e−03	−6.1501e−01	−1.5496e+00	7.1594e−01	−1.2798e−01	−3.3505e−01	4.0601e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.94 0.71	0.43 0.23
^{64}Co	(nγ)^{65}Co	7.4460e+00	1.0	3.5	0.0350	0.01	7.2e−06	
	2.6678e+01	−8.5043e−02	9.0886e+00	−2.1000e+01	1.1537e+00	−9.3667e−02	8.7171e+00	4.9380e+01
	1.05 1.16	1.26 1.34	1.41 1.46	1.49 1.52	1.53 1.54	1.42 1.21	1.00 0.65	0.40 0.23
^{65}Co	(nγ)^{66}Co	4.9590e+00	3.5	3.0	0.0300	0.01	1.4e−05	
	2.0482e+01	−3.3215e−02	3.3761e+00	−1.0911e+01	1.2230e+00	−1.4151e−01	3.4807e+00	4.4298e+01
	1.01 1.02	1.03 1.04	1.04 1.05	1.07 1.07	1.07 1.07	1.08 1.05	1.00 0.81	0.53 0.30
^{66}Co	(nγ)^{67}Co	7.3400e+00	3.0	3.5	0.0550	0.01	3.6e−06	0
	2.7086e+01	−6.1241e−02	6.8547e+00	−1.9620e+01	1.2257e+00	−9.3536e−02	7.0818e+00	5.0636e+01
^{67}Co	(nγ)^{68}Co	4.5780e+00	3.5	4.0	0.0200	0.01	1.7e−05	0
	1.9849e+01	−2.8636e−02	2.9521e+00	−9.9263e+00	1.1344e+00	−1.3596e−01	3.0985e+00	4.3415e+01
^{68}Co	(nγ)^{69}Co	7.2890e+00	4.0	3.5	0.0550	0.01	9.5e−06	0
	2.8001e+01	−5.1041e−02	6.3284e+00	−2.0410e+01	1.3524e+00	−1.0240e−01	6.9914e+00	5.1803e+01
^{69}Co	(nγ)^{70}Co	4.0040e+00	3.5	2.0	0.0200	0.01	2.0e−05	0
	1.9265e+01	−2.9301e−02	3.0848e+00	−1.1097e+01	1.3363e+00	−1.5357e−01	3.3357e+00	4.3419e+01
^{70}Co	(nγ)^{71}Co	6.1980e+00	2.0	3.5	0.1500	0.01	9.7e−06	0
	2.6687e+01	−6.0133e−02	7.0885e+00	−2.0622e+01	1.3167e+00	−1.0380e−01	7.4817e+00	4.9901e+01
^{71}Co	(nγ)^{72}Co	3.7850e+00	3.5	4.0	0.0450	0.01	1.6e−05	0
	1.9232e+01	−3.1579e−02	3.3378e+00	−1.1908e+01	1.4070e+00	−1.5797e−01	3.6052e+00	4.2799e+01
^{72}Co	(nγ)^{73}Co	5.6840e+00	4.0	3.5	0.2350	0.01	1.7e−06	0
	1.8756e+01	−2.3602e−02	2.5871e+00	−8.6932e+00	5.9353e−01	−6.7655e−02	2.7880e+00	4.2559e+01
^{73}Co	(nγ)^{74}Co	3.2570e+00	3.5	0.0	0.0900	0.01	1.7e−05	0
	2.0040e+01	−4.7930e−02	5.0131e+00	−1.5837e+01	1.7240e+00	−1.7483e−01	5.1883e+00	4.5805e+01
^{74}Co	(nγ)^{75}Co	5.2260e+00	0.0	3.5	0.4750	0.01	1.9e−04	0
	2.8301e+01	1.1202e−01	−5.2267e+00	−1.0919e+01	1.3563e+00	−1.2482e−01	−1.4958e−01	4.9907e+01
^{75}Co	(nγ)^{76}Co	2.9680e+00	3.5	5.0	0.1850	0.01	2.4e−05	0
	1.9762e+01	−4.8243e−02	5.1541e+00	−1.6449e+01	1.7198e+00	−1.6615e−01	5.3946e+00	4.3130e+01
^{76}Co	(nγ)^{77}Co	4.4830e+00	5.0	3.5	1.0200	0.01	3.5e−06	0
	1.6859e+01	−1.3666e−02	1.8421e+00	−8.5264e+00	8.2028e−01	−8.7572e−02	2.3461e+00	4.0864e+01
^{77}Co	(nγ)^{78}Co	9.5200e−01	3.5	4.0	0.5800	0.01	1.7e−05	0
	1.5693e+01	−8.0986e−02	7.3634e+00	−2.0002e+01	2.4499e+00	−2.2603e−01	6.8567e+00	3.9261e+01
^{78}Co	(nγ)^{79}Co	2.3900e+00	4.0	3.5	3.6850	0.01	4.4e−06	0
	1.5931e+01	−4.0842e−02	3.8911e+00	−1.2480e+01	1.2148e+00	−1.1308e−01	3.9089e+00	3.9736e+01
^{79}Co	(nγ)^{80}Co	4.3600e−01	3.5	2.0	n.c.	0.01	6.2e−05	0
	3.1071e+00	−1.4666e−03	−6.6467e−01	−1.0534e+00	1.3923e+00	−1.9140e−01	−7.1837e−01	2.7264e+01
^{80}Co	(nγ)^{81}Co	1.8500e+00	2.0	3.5	n.c.	0.01	5.2e−06	0
	1.9097e+01	−3.2310e−02	4.0824e+00	−1.6741e+01	1.5901e+00	−1.3862e−01	4.8956e+00	4.2315e+01
^{82}Co	(nγ)^{83}Co	1.6930e+00	4.0	3.5	n.c.	0.01	3.9e−06	0
	1.6749e+01	−5.2929e−02	5.1869e+00	−1.6332e+01	1.5583e+00	−1.4722e−01	5.2385e+00	4.0555e+01
^{84}Co	(nγ)^{85}Co	7.8500e−01	2.0	0.5	n.c.	0.01	3.3e−04	0
	2.3311e+00	5.1210e−02	−5.2713e+00	5.9665e+00	6.3551e−01	−1.3372e−01	−4.3723e+00	2.6935e+01
^{86}Co	(nγ)^{87}Co	1.2700e+00	1.0	0.5	n.c.	0.01	9.4e−03	0
	2.6228e+01	3.3535e−02	−3.5202e−01	−2.6659e+01	5.2704e+00	−5.5927e−01	3.5748e+00	5.0322e+01
^{88}Co	(nγ)^{89}Co	7.1100e−01	2.0	0.5	n.c.	0.01	3.9e−03	0
	3.4250e+01	−1.8509e−02	6.5490e+00	−4.4362e+01	6.3806e+00	−6.1075e−01	1.0881e+01	5.8855e+01
^{90}Co	(nγ)^{91}Co	8.4600e−01	3.0	2.5	n.c.	0.01	9.2e−03	0
	1.0562e+02	−4.5262e−01	5.4443e+01	−1.7291e+02	1.6798e+01	−1.3045e+00	5.9164e+01	1.2946e+02
^{56}Ni	(np)^{56}Co	2.9180e+00	0.0	4.0	0.0100	0.01	5.3e−05	
	1.2541e+01	−3.5837e−02	3.4699e+00	1.6672e+00	−1.7525e−01	2.3571e−02	1.5283e+00	1.0343e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.10	1.31 1.56

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{56}Ni	$(n\alpha)^{53}$Fe	2.6880e+00	0.0	3.5	0.0100	0.01	3.5e−03	0
	−5.0761e+01	3.3643e−01	−3.7387e+01	9.0802e+01	−2.4574e+00	−5.2990e−02	−3.6615e+01	−5.4144e+01
^{57}Ni	$(np)^{57}$Co	4.0470e+00	1.5	3.5	0.1550	0.01	9.3e−06	
	1.4398e+01	7.0402e−02	−5.3873e+00	1.0595e+01	−3.1984e−01	5.4788e−03	−4.8556e+00	1.3705e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.05	1.08 1.15	1.23 1.28
^{57}Ni	$(n\alpha)^{54}$Fe	5.8190e+00	1.5	0.0	0.1550	0.01	1.1e−05	0
	1.3255e+01	3.7233e−02	−2.1293e+00	3.7951e+00	5.8449e−02	1.6864e−02	−1.8879e+00	1.3336e+01
^{58}Ni	$(n\gamma)^{59}$Ni	8.9990e+00	0.0	1.5	0.0300	0.01	4.6e−05	
	2.4156e+01	−7.9039e−02	7.7649e+00	−1.7301e+01	1.5560e+00	−1.5045e−01	7.1053e+00	4.6450e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.89	0.69 0.47
^{58}Ni	$(np)^{58}$Co	4.0000e−01	0.0	2.0	0.0300	0.01	5.5e−04	0
	−3.8110e+01	−2.4222e−01	2.0839e+01	2.6780e+01	−4.5362e+00	2.8180e−01	9.9264e+00	−3.9720e+01
^{58}Ni	$(n\alpha)^{55}$Fe	2.8980e+00	0.0	1.5	0.0300	0.01	1.3e−02	
	−5.2156e+01	3.6831e−01	−4.6626e+01	1.0531e+02	−2.8748e+00	−1.0371e−01	−4.4538e+01	−5.4849e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.28 2.50	4.42 8.89	11.84 12.95
^{59}Ni	$(n\gamma)^{60}$Ni	1.1388e+01	1.5	0.0	0.1250	0.01	7.3e−05	
	2.6939e+01	−1.1557e−01	1.0640e+01	−2.2687e+01	1.5892e+00	−1.1560e−01	9.3695e+00	5.2006e+01
	1.00 1.00	1.00 1.00	0.99 1.00	1.00 0.99	0.99 0.99	0.93 0.89	0.86 0.81	0.74 0.59
^{59}Ni	$(np)^{59}$Co	1.8540e+00	1.5	3.5	0.1250	0.01	2.8e−05	0
	1.9790e+01	−8.3556e−02	9.3609e+00	−1.5006e+01	1.3412e+00	−8.6400e−02	7.7843e+00	1.9097e+01
^{59}Ni	$(n\alpha)^{56}$Fe	5.0960e+00	1.5	0.0	0.1250	0.01	1.2e−04	
	3.5994e+01	−7.5900e−02	1.2921e+01	−3.8989e+01	4.1322e+00	−2.8807e−01	1.3642e+01	3.6072e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.17	1.42 2.12	2.98 3.76
^{60}Ni	$(n\gamma)^{61}$Ni	7.8200e+00	0.0	1.5	0.0250	0.01	3.8e−06	
	2.4298e+01	−7.0888e−02	7.2857e+00	−1.7464e+01	1.6154e+00	−1.5055e−01	6.9238e+00	4.6592e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.01 0.96	0.81 0.58
^{60}Ni	$(n\alpha)^{57}$Fe	1.3540e+00	0.0	0.5	0.0250	0.01	5.0e−02	0
	−2.6296e+02	2.4193e−01	−6.9606e+01	3.4921e+02	−2.9991e+01	1.9170e+00	−9.9592e+01	−2.6497e+02
^{61}Ni	$(n\gamma)^{62}$Ni	1.0597e+01	1.5	0.0	0.1400	0.01	3.6e−05	
	1.5451e+01	1.7376e−03	−1.0568e+00	1.2658e+00	1.4789e−01	−4.0700e−02	−1.2149e+00	4.0518e+01
	1.00 0.98	0.94 0.92	0.90 0.90	0.90 0.91	0.91 0.92	0.98 1.00	0.98 0.89	0.75 0.56
^{61}Ni	$(n\alpha)^{58}$Fe	3.5780e+00	1.5	0.0	0.1400	0.01	4.9e−03	0
	1.5979e+01	1.6255e−01	−1.0495e+01	−3.3180e+00	4.9295e+00	−5.2800e−01	−5.6742e+00	1.6055e+01
^{62}Ni	$(n\gamma)^{63}$Ni	6.8380e+00	0.0	0.5	0.0250	0.01	4.0e−06	
	2.4659e+01	−6.5525e−02	6.9559e+00	−1.8307e+01	1.8299e+00	−1.7619e−01	6.8613e+00	4.7648e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.95	0.77 0.51
^{63}Ni	$(n\gamma)^{64}$Ni	9.6580e+00	0.5	0.0	0.1800	0.01	4.5e−05	
	2.4230e+01	−1.7663e−02	2.5283e+00	−1.3195e+01	1.6813e+00	−1.6982e−01	3.3980e+00	4.8606e+01
	1.00 1.00	0.99 0.98	0.96 0.95	0.95 0.95	0.96 0.96	1.09 1.19	1.26 1.26	1.03 0.67
^{63}Ni	$(n\alpha)^{60}$Fe	1.5440e+00	0.5	0.0	0.1800	0.01	2.2e−02	0
	−2.7742e+02	1.0351e+00	−1.3370e+02	4.2788e+02	−3.1534e+01	1.8990e+00	−1.4835e+02	−2.7804e+02
^{64}Ni	$(n\gamma)^{65}$Ni	6.0980e+00	0.0	2.5	0.0500	0.01	4.9e−05	
	3.1223e+01	−9.7545e−02	1.0789e+01	−3.0538e+01	3.1386e+00	−2.9111e−01	1.1024e+01	5.3114e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.02 1.00	0.77 0.42
^{65}Ni	$(n\gamma)^{66}$Ni	8.9770e+00	2.5	0.0	0.2600	0.01	3.6e−05	
	2.7309e+01	−7.3793e−02	7.5906e+00	−2.2218e+01	2.2304e+00	−2.1011e−01	7.6320e+00	5.2784e+01
	1.00 1.00	0.99 0.99	0.98 0.97	0.96 0.95	0.95 0.94	0.87 0.82	0.79 0.70	0.51 0.30
^{66}Ni	$(n\gamma)^{67}$Ni	5.7850e+00	0.0	0.5	0.0400	0.01	5.3e−05	
	3.1346e+01	−7.9903e−02	9.5386e+00	−3.0667e+01	3.4342e+00	−3.3011e−01	1.0364e+01	5.4336e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.02 0.99	0.71 0.36
^{67}Ni	$(n\gamma)^{68}$Ni	7.8150e+00	0.5	0.0	0.5450	0.01	5.0e−05	
	2.4570e+01	−7.2358e−02	7.1567e+00	−1.9712e+01	2.0968e+00	−2.1361e−01	6.9535e+00	4.8946e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.92	0.66 0.36
^{68}Ni	$(n\gamma)^{69}$Ni	4.9630e+00	0.0	4.5	0.1200	0.01	2.8e−04	0
	3.4175e+01	−8.1023e−02	1.0229e+01	−3.6482e+01	4.5374e+00	−4.4436e−01	1.1655e+01	5.5556e+01
^{69}Ni	$(n\gamma)^{70}$Ni	7.1790e+00	4.5	0.0	0.8250	0.01	1.3e−04	0
	3.0799e+01	−9.5763e−02	1.0316e+01	−3.1301e+01	3.4004e+00	−3.1685e−01	1.0656e+01	5.6785e+01
^{70}Ni	$(n\gamma)^{71}$Ni	4.4760e+00	0.0	1.5	0.1600	0.01	1.8e−04	0
	2.2055e+01	−2.0492e−03	1.6452e+00	−1.3596e+01	2.4009e+00	−2.8278e−01	3.0731e+00	4.4353e+01
^{71}Ni	$(n\gamma)^{72}$Ni	6.8600e+00	1.5	0.0	0.8850	0.01	1.5e−04	0
	1.2832e+01	2.6321e−02	−2.6078e+00	2.0533e+00	6.0542e−01	−1.3613e−01	−2.0372e+00	3.7903e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{72}Ni	(nγ)^{73}Ni	3.9710e+00	0.0	2.5	0.2100	0.01	2.3e−04	0
	1.9894e+01	1.0715e−02	4.0212e−01	−1.1177e+01	2.4104e+00	−3.0108e−01	1.9682e+00	4.1787e+01
^{73}Ni	(nγ)^{74}Ni	6.4950e+00	2.5	0.0	1.4850	0.01	4.5e−05	0
	1.8272e+01	−1.3723e−02	1.6499e+00	−9.0694e+00	1.5177e+00	−1.9380e−01	2.1666e+00	4.3749e+01
^{74}Ni	(nγ)^{75}Ni	3.6860e+00	0.0	3.5	0.3300	0.01	2.1e−04	0
	1.1874e+01	4.4197e−02	−3.4595e+00	5.5892e−01	1.4247e+00	−2.3329e−01	−2.1254e+00	3.3480e+01
^{75}Ni	(nγ)^{76}Ni	6.0580e+00	3.5	0.0	2.4000	0.01	1.2e−05	0
	1.9749e+01	−3.6270e−02	3.8487e+00	−1.4440e+01	1.9997e+00	−2.1863e−01	4.2242e+00	4.5514e+01
^{76}Ni	(nγ)^{77}Ni	3.0840e+00	0.0	4.5	0.7900	0.01	1.9e−04	0
	1.3005e+01	5.7398e−03	−2.2948e−01	−5.3415e+00	1.9372e+00	−2.6373e−01	4.8096e−01	3.4389e+01
^{77}Ni	(nγ)^{78}Ni	5.9780e+00	4.5	0.0	3.8600	0.01	1.5e−05	0
	1.1846e+01	−1.1786e−02	6.7701e−01	−4.7739e+00	1.1970e+00	−1.5251e−01	7.4012e−01	3.7835e+01
^{78}Ni	(nγ)^{79}Ni	5.2500e−01	0.0	0.5	2.5250	0.01	3.6e−04	0
	2.2711e+01	−1.0447e−01	1.1030e+01	−3.3977e+01	4.2778e+00	−3.7607e−01	1.1344e+01	4.5704e+01
^{79}Ni	(nγ)^{80}Ni	3.6980e+00	0.5	0.0	9.0700	0.01	2.9e−05	0
	5.1643e+00	1.2371e−02	−2.5128e+00	6.4825e+00	−3.3654e−01	−2.2508e−02	−2.9177e+00	2.9544e+01
^{80}Ni	(nγ)^{81}Ni	1.7000e−01	0.0	1.5	4.7850	0.01	6.1e−05	0
	−3.7781e−01	1.1900e−03	−8.2154e−01	1.6021e+00	1.7230e+00	−2.6519e−01	−1.0764e+00	2.1923e+01
^{81}Ni	(nγ)^{82}Ni	3.0150e+00	1.5	0.0	9.2450	0.01	1.2e−05	0
	1.1400e+01	−2.4003e−02	1.6893e+00	−6.7526e+00	1.1776e+00	−1.5785e−01	1.5708e+00	3.6473e+01
^{83}Ni	(nγ)^{84}Ni	2.3490e+00	0.5	0.0	n.c.	0.01	3.4e−05	0
	9.1490e+00	−3.8149e−02	2.4448e+00	−4.8770e+00	5.4727e−01	−9.4555e−02	1.6576e+00	3.3530e+01
^{85}Ni	(nγ)^{86}Ni	1.4030e+00	1.5	0.0	n.c.	0.01	3.1e−04	0
	−3.8630e+00	5.7399e−02	−7.4513e+00	1.6552e+01	−4.0200e−02	−1.3419e−01	−7.6004e+00	2.1212e+01
^{87}Ni	(nγ)^{88}Ni	2.0590e+00	1.5	0.0	n.c.	0.01	3.9e−04	0
	4.7710e+00	3.2602e−02	−4.0566e+00	4.3505e+00	9.1530e−01	−1.8408e−01	−3.6235e+00	2.9846e+01
^{89}Ni	(nγ)^{90}Ni	1.5790e+00	1.5	0.0	n.c.	0.01	3.1e−03	0
	3.3584e+01	−1.0583e−01	1.2303e+01	−4.7066e+01	6.1057e+00	−5.9532e−01	1.3988e+01	5.8659e+01
^{91}Ni	(nγ)^{92}Ni	1.3130e+00	2.5	0.0	n.c.	0.01	1.2e−02	0
	3.6820e+01	−3.3184e−02	8.3849e+00	−5.0326e+01	7.7294e+00	−7.8448e−01	1.2878e+01	6.2301e+01
^{93}Ni	(nγ)^{94}Ni	5.9300e−01	0.5	0.0	n.c.	0.01	6.0e−03	0
	1.0506e+02	−6.0175e−01	6.5694e+01	−1.8399e+02	1.6859e+01	−1.2959e+00	6.6691e+01	1.2945e+02
^{95}Ni	(nγ)^{96}Ni	7.9700e−01	0.5	0.0	n.c.	0.01	5.9e−03	0
	1.1501e+02	−6.6782e−01	7.2672e+01	−2.0095e+02	1.7384e+01	−1.2522e+00	7.3466e+01	1.3940e+02
^{58}Cu	(np)^{58}Ni	9.3450e+00	1.0	0.0	0.0100	0.01	4.7e−06	
	1.8603e+01	7.4672e−02	−4.6351e+00	6.5854e+00	−1.5307e−01	−6.7305e−03	−3.4547e+00	1.9702e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.98	0.95 0.88
^{58}Cu	(nα)^{55}Co	8.0100e+00	1.0	3.5	0.0100	0.01	1.1e−04	0
	−8.0354e+00	9.8695e−02	−1.4165e+01	4.0525e+01	−3.2063e+00	2.4569e−01	−1.4741e+01	−1.0323e+01
^{59}Cu	(np)^{59}Ni	5.5820e+00	1.5	1.5	0.0100	0.01	2.8e−06	
	1.7616e+01	8.2640e−02	−5.4047e+00	8.2813e+00	−2.7711e−01	7.7293e−04	−4.1494e+00	1.7616e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.92 0.86
^{59}Cu	(nα)^{56}Co	5.3300e+00	1.5	4.0	0.0100	0.01	1.1e−03	0
	2.3179e+01	−7.2294e−02	4.8720e+00	−1.9703e+01	3.9230e+00	−3.8045e−01	5.8304e+00	2.1060e+01
^{60}Cu	(np)^{60}Ni	6.9090e+00	2.0	0.0	0.0100	0.01	1.2e−05	
	1.8425e+01	7.0363e−02	−4.2288e+00	6.1323e+00	−2.6154e−01	9.3636e−03	−3.1282e+00	2.0034e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.99 0.99	0.96 0.94	0.92 0.90	0.86 0.82
^{60}Cu	(nα)^{57}Co	6.6450e+00	2.0	3.5	0.0100	0.01	6.6e−05	0
	3.3058e+00	3.6943e−02	−7.7329e+00	2.0886e+01	−1.0554e+00	5.1060e−02	−7.9059e+00	1.5264e+00
^{61}Cu	(np)^{61}Ni	3.0190e+00	1.5	1.5	0.0100	0.01	4.4e−06	
	2.0711e+01	4.7204e−02	−2.1425e+00	−5.9167e−02	7.1784e−01	−9.5986e−02	−1.1378e+00	2.0711e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.03	1.05 1.05	0.95 0.74
^{61}Cu	(nα)^{58}Co	3.5080e+00	1.5	2.0	0.0100	0.01	1.5e−02	0
	−3.1662e+01	3.6479e−01	−3.9248e+01	7.8455e+01	−1.1059e+00	−1.9760e−01	−3.5354e+01	−3.3195e+01
^{62}Cu	(np)^{62}Ni	4.7300e+00	1.0	0.0	0.0100	0.01	2.2e−04	
	2.8612e+01	−6.0987e−03	3.7026e+00	−1.4067e+01	1.2172e+00	−8.5969e−02	4.5859e+00	2.9711e+01
	1.00 1.00	0.99 0.99	0.98 0.98	0.98 0.96	0.96 0.95	0.83 0.75	0.71 0.69	0.67 0.57
^{62}Cu	(nα)^{59}Co	5.0760e+00	1.0	3.5	0.0100	0.01	2.0e−04	0
	2.3143e+01	−1.8118e−01	1.0250e+01	−2.2345e+01	2.2060e+00	−1.3903e−01	9.6326e+00	2.0850e+01
^{63}Cu	(nγ)^{64}Cu	7.9160e+00	1.5	1.0	0.0100	0.01	6.4e−05	
	1.7483e+01	−2.6262e−02	1.7793e+00	−3.2878e+00	5.7313e−01	−1.0463e−01	1.2252e+00	4.1452e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.96	0.90 0.70	0.44 0.25
^{63}Cu	(np)^{63}Ni	7.1500e−01	1.5	0.5	0.0100	0.01	1.6e−03	0
	−1.0628e+02	3.5925e−01	−4.7992e+01	1.7366e+02	−1.3570e+01	8.1959e−01	−5.6565e+01	−1.0558e+02
^{63}Cu	(nα)^{60}Co	1.7150e+00	1.5	5.0	0.0100	0.01	2.8e−02	
	−2.9925e+02	1.0588e+00	−1.4152e+02	4.6297e+02	−3.4842e+01	2.0936e+00	−1.5855e+02	−3.0158e+02
	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.10	1.25 1.47	8.42 22.84	40.80 67.02	68.42 60.00
^{64}Cu	(nγ)^{65}Cu	9.9100e+00	1.0	1.5	0.0150	0.01	7.6e−05	
	3.4673e+01	−1.1315e−01	1.2146e+01	−3.2158e+01	2.5904e+00	−2.1211e−01	1.2073e+01	5.8068e+01
	1.00 1.00	1.00 1.00	1.00 0.98	0.98 0.96	0.95 0.93	0.82 0.78	0.76 0.68	0.51 0.33
^{64}Cu	(np)^{64}Ni	2.4580e+00	1.0	0.0	0.0150	0.01	2.5e−04	0
	3.1421e+01	−3.8398e−02	7.1094e+00	−2.3828e+01	1.8716e+00	−8.9050e−02	8.0355e+00	3.2520e+01
^{64}Cu	(nα)^{61}Co	3.1210e+00	1.0	3.5	0.0150	0.01	2.0e−03	
	−1.2081e+01	−1.0242e−02	−4.2107e+00	1.9147e+01	1.1886e+00	−2.1585e−01	−5.9298e+00	−1.4376e+01
	1.00 1.00	1.02 1.10	1.24 1.44	1.69 1.98	2.31 2.68	7.49 11.01	13.30 17.12	20.89 24.01
^{65}Cu	(nγ)^{66}Cu	7.0660e+00	1.5	1.0	0.0100	0.01	1.8e−04	
	1.6203e+01	−1.1038e−03	−3.2468e−01	−5.6438e−01	6.3079e−01	−1.3221e−01	−3.6002e−01	4.0173e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.94 0.73	0.41 0.20
^{66}Cu	(nγ)^{67}Cu	9.1180e+00	1.0	1.5	0.0200	0.01	5.0e−05	
	1.8419e+01	−3.2097e−02	2.6490e+00	−4.5745e+00	2.1419e−01	−5.3376e−02	2.0889e+00	4.1815e+01
	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.98	0.98 0.98	0.97 0.93	0.85 0.61	0.38 0.22
^{66}Cu	(np)^{66}Ni	5.5700e−01	1.0	0.0	0.0200	0.01	3.9e−03	0
	−7.8458e+01	−2.3376e−02	−1.0313e+01	1.0244e+02	−1.0618e+01	7.8159e−01	−2.3165e+01	−7.7360e+01
^{66}Cu	(nα)^{63}Co	1.2300e+00	1.0	3.5	0.0200	0.01	2.5e−02	0
	−1.0850e+02	−1.2693e+00	8.0099e+01	2.3320e+01	−9.2487e+00	7.4891e−01	4.0205e+01	−1.1080e+02
^{67}Cu	(nγ)^{68}Cu	6.3130e+00	1.5	1.0	0.0100	0.01	1.2e−04	
	1.6531e+01	−6.2633e−03	2.6812e−01	−2.1473e+00	7.1241e−01	−1.3200e−01	2.4662e−01	4.0502e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.00 0.78	0.47 0.23
^{68}Cu	(nγ)^{69}Cu	8.2690e+00	1.0	1.5	0.0250	0.01	1.0e−04	
	3.9504e+00	6.0807e−02	−7.4942e+00	2.1140e+01	−1.8743e+00	9.3316e−02	−7.9335e+00	2.7347e+01
	1.00 1.01	1.00 1.00	1.00 1.00	1.01 1.02	1.03 1.04	1.10 0.99	0.81 0.50	0.30 0.17
^{69}Cu	(nγ)^{70}Cu	5.2920e+00	1.5	1.0	0.0150	0.01	1.2e−03	
	1.5952e+01	1.8993e−02	−1.7508e+00	−4.2949e−01	9.8746e−01	−1.8553e−01	−1.1478e+00	3.9924e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.97 0.66	0.30 0.13
^{70}Cu	(nγ)^{71}Cu	7.8750e+00	1.0	1.5	0.0350	0.01	7.6e−06	0
	2.3773e+01	−5.8485e−02	5.8875e+00	−1.4523e+01	8.4661e−01	−7.9602e−02	5.6091e+00	4.7170e+01
^{71}Cu	(nγ)^{72}Cu	5.2310e+00	1.5	1.0	0.0150	0.01	1.5e−05	0
	1.2152e+01	5.5471e−04	−9.0201e−01	3.1532e+00	−2.9032e−02	−6.4620e−02	−1.2918e+00	3.6124e+01
^{72}Cu	(nγ)^{73}Cu	7.4320e+00	1.0	0.5	0.0450	0.01	1.7e−05	0
	3.2098e+01	−1.0662e−01	1.1827e+01	−2.9677e+01	1.8110e+00	−1.3459e−01	1.1742e+01	5.6189e+01
^{73}Cu	(nγ)^{74}Cu	4.8220e+00	0.5	1.0	0.0150	0.01	1.6e−04	0
	1.2841e+01	−4.7981e−02	3.5189e+00	−2.2416e+00	−1.6418e−01	−2.9354e−02	2.1817e+00	3.6121e+01
^{74}Cu	(nγ)^{75}Cu	6.8270e+00	1.0	0.5	0.0850	0.01	2.5e−05	0
	3.2140e+01	−9.5804e−02	1.1152e+01	−2.9961e+01	1.9262e+00	−1.4363e−01	1.1461e+01	5.6232e+01
^{75}Cu	(nγ)^{76}Cu	4.3420e+00	0.5	4.0	0.0300	0.01	3.3e−04	0
	1.1391e+01	−4.7404e−02	3.4060e+00	−1.5887e+00	−2.4129e−01	−1.9352e−02	2.0177e+00	3.3573e+01
^{76}Cu	(nγ)^{77}Cu	6.2340e+00	4.0	0.5	0.1800	0.01	2.0e−06	0
	1.9398e+01	−3.7785e−02	3.7514e+00	−1.0081e+01	6.7006e−01	−7.4319e−02	3.6390e+00	4.4588e+01
^{77}Cu	(nγ)^{78}Cu	3.9110e+00	0.5	4.0	0.0700	0.01	1.1e−04	0
	3.2590e+01	−1.8218e−01	1.8804e+01	−4.1524e+01	2.6852e+00	−1.9778e−01	1.7580e+01	5.4772e+01
^{78}Cu	(nγ)^{79}Cu	5.5030e+00	4.0	0.5	0.4250	0.01	3.0e−06	0
	1.8972e+01	−3.8900e−02	3.9934e+00	−1.1479e+01	9.0110e−01	−9.1504e−02	3.9992e+00	4.4163e+01
^{79}Cu	(nγ)^{80}Cu	1.9350e+00	0.5	0.0	0.2250	0.01	3.2e−04	0
	2.2798e+00	−8.9825e−03	−1.0430e+00	7.5904e+00	−5.1227e−01	−4.6540e−03	−2.2718e+00	2.6660e+01
^{80}Cu	(nγ)^{81}Cu	3.3960e+00	0.0	0.5	1.9600	0.01	7.0e−05	0
	2.6414e+01	7.3904e−02	−2.9089e+00	−1.3825e+01	1.7016e+00	−1.4908e−01	1.1690e+00	4.9408e+01
^{81}Cu	(nγ)^{82}Cu	1.2230e+00	0.5	2.0	0.6850	0.01	2.1e−05	0
	2.1265e+01	−2.4463e−02	4.0043e+00	−1.9824e+01	2.3431e+00	−2.1920e−01	5.4224e+00	4.4036e+01
^{82}Cu	(nγ)^{83}Cu	3.1090e+00	2.0	0.5	2.0600	0.01	8.4e−07	0
	2.3524e+01	−3.2195e−02	4.6914e+00	−1.9699e+01	1.7170e+00	−1.4396e−01	5.8709e+00	4.8127e+01
^{83}Cu	(nγ)^{84}Cu	8.5300e−01	0.5	2.0	0.6150	0.01	7.7e−05	0
	1.8380e+01	−8.8029e−03	2.3637e+00	−1.6561e+01	2.3293e+00	−2.3953e−01	3.9085e+00	4.1152e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{84}Cu	$(n\gamma)^{85}$Cu	2.6270e+00	2.0	0.5	2.3550	0.01	3.2e−06	0
	2.1973e+01	−2.9502e−02	4.2450e+00	−1.8523e+01	1.6850e+00	−1.5111e−01	5.3683e+00	4.6577e+01
^{85}Cu	$(n\gamma)^{86}$Cu	3.6000e−01	0.5	3.0	0.8300	0.01	1.6e−04	0
	4.2458e−01	7.0010e−02	−6.6389e+00	9.2450e+00	5.8979e−01	−1.5761e−01	−5.4599e+00	2.2860e+01
^{86}Cu	$(n\gamma)^{87}$Cu	1.5640e+00	3.0	3.5	3.1650	0.01	3.2e−05	0
	1.9286e+01	−5.2564e−02	5.5683e+00	−1.9263e+01	1.9668e+00	−1.9232e−01	5.9646e+00	4.2840e+01
^{87}Cu	$(n\gamma)^{88}$Cu	3.6000e−01	3.5	4.0	1.2650	0.01	2.9e−04	0
	−2.8135e+00	2.1393e−02	−3.7191e+00	8.9221e+00	5.1735e−01	−1.6131e−01	−4.1719e+00	2.0757e+01
^{88}Cu	$(n\gamma)^{89}$Cu	2.4310e+00	4.0	3.5	2.3050	0.01	3.0e−05	0
	2.1970e+01	−3.8022e−02	4.7803e+00	−1.9503e+01	1.8041e+00	−1.7429e−01	5.7130e+00	4.5777e+01
^{89}Cu	$(n\gamma)^{90}$Cu	1.5700e−01	3.5	2.0	n.c.	0.01	5.5e−05	0
	−8.8198e+00	−1.7882e−02	−6.4117e−01	9.6244e+00	2.6430e−01	−1.5178e−01	−2.4402e+00	1.5339e+01
^{90}Cu	$(n\gamma)^{91}$Cu	1.4850e+00	2.0	3.5	n.c.	0.01	9.3e−05	0
	1.6553e+01	−8.1966e−02	8.0560e+00	−1.9097e+01	1.4993e+00	−1.5625e−01	7.5082e+00	3.9772e+01
^{92}Cu	$(n\gamma)^{93}$Cu	1.3690e+00	1.0	3.5	n.c.	0.01	3.7e−03	0
	−5.7063e+01	4.5062e−01	−4.9080e+01	1.1668e+02	−7.3756e+00	3.3955e−01	−4.7756e+01	−3.4354e+01
^{94}Cu	$(n\gamma)^{95}$Cu	6.1100e−01	4.0	3.5	n.c.	0.01	1.9e−02	0
	2.2095e+01	1.1064e−01	−6.7093e+00	−1.8087e+01	5.2201e+00	−5.9871e−01	−1.2214e+00	4.5902e+01
^{96}Cu	$(n\gamma)^{97}$Cu	8.3000e−01	4.0	3.5	n.c.	0.01	2.2e−02	0
	8.6398e+01	−2.8084e−01	3.5459e+01	−1.3274e+02	1.4888e+01	−1.2624e+00	4.1063e+01	1.1021e+02
^{98}Cu	$(n\gamma)^{99}$Cu	5.1700e−01	4.0	3.5	n.c.	0.01	2.3e−02	0
	1.5183e+02	−7.7021e−01	8.7327e+01	−2.6157e+02	2.4745e+01	−1.8734e+00	9.1558e+01	1.7564e+02
^{60}Zn	$(np)^{60}$Cu	4.9410e+00	0.0	2.0	0.0100	0.01	4.8e−06	1
	1.7630e+01	7.5453e−02	−4.7873e+00	7.4272e+00	−2.0616e−01	−7.3826e−04	−3.6719e+00	1.6020e+01
^{60}Zn	$(n\alpha)^{57}$Ni	7.5390e+00	0.0	1.5	0.0100	0.01	1.6e−04	0
	7.0691e+00	1.6920e−02	−5.0654e+00	1.5706e+01	−1.1564e+00	7.5656e−02	−5.4627e+00	4.3734e+00
^{61}Zn	$(np)^{61}$Cu	6.4190e+00	1.5	1.5	0.0200	0.01	2.3e−05	
	1.9230e+01	6.3317e−02	−3.4879e+00	4.2968e+00	3.4509e−02	−2.1060e−02	−2.4154e+00	1.9230e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.96 0.87
^{61}Zn	$(n\alpha)^{58}$Ni	9.5270e+00	1.5	0.0	0.0200	0.01	1.7e−04	0
	8.9399e+00	7.0608e−03	−3.9774e+00	1.3390e+01	−1.1748e+00	9.5120e−02	−4.4453e+00	9.0155e+00
^{62}Zn	$(np)^{62}$Cu	2.4090e+00	0.0	1.0	0.0100	0.01	1.4e−04	
	1.0420e+01	8.7021e−02	−7.2020e+00	1.4635e+01	6.6637e−02	−8.0101e−02	−6.6072e+00	9.3218e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.05 1.22	1.40 1.59	1.55 1.28
^{62}Zn	$(n\alpha)^{59}$Ni	5.6300e+00	0.0	1.5	0.0100	0.01	6.3e−04	0
	1.6217e+01	9.3581e−03	−9.9919e−01	−7.1190e−01	1.0132e+00	−1.0227e−01	−4.7859e−01	1.3519e+01
^{63}Zn	$(np)^{63}$Cu	4.1490e+00	1.5	1.5	0.0250	0.01	1.5e−04	
	2.7375e+01	1.1472e−02	2.1203e+00	−1.1174e+01	1.3416e+00	−1.1307e−01	3.2457e+00	2.7375e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.98	0.97 0.97	0.98 1.02	1.02 0.85
^{63}Zn	$(n\alpha)^{60}$Ni	7.9060e+00	1.5	0.0	0.0250	0.01	6.7e−05	0
	1.2973e+01	−1.8030e−02	−1.2774e+00	6.3575e+00	−6.0817e−01	4.9409e−02	−1.7584e+00	1.3046e+01
^{64}Zn	$(n\gamma)^{65}$Zn	7.9800e+00	0.0	2.5	0.0100	0.01	1.5e−05	
	2.2957e+01	−5.3398e−02	5.3060e+00	−1.3296e+01	1.6129e+00	−1.8860e−01	5.0189e+00	4.4847e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.04 0.94	0.66 0.36
^{64}Zn	$(np)^{64}$Cu	2.0400e−01	0.0	1.0	0.0100	0.01	4.0e−03	0
	4.0191e+01	−2.4038e−01	5.1377e+01	−9.2952e+01	3.5679e+00	−1.9842e−01	5.5943e+01	3.9092e+01
^{64}Zn	$(n\alpha)^{61}$Ni	3.8640e+00	0.0	1.5	0.0100	0.01	8.4e−03	
	2.5974e+00	−4.7879e−01	8.1968e+00	−4.5154e+00	3.6916e+00	−4.5985e−01	2.5193e+00	−1.0321e−01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.40 2.79	4.62 7.51	8.25 6.98
^{65}Zn	$(n\gamma)^{66}$Zn	1.1060e+01	2.5	0.0	0.0300	0.01	2.6e−05	
	2.4269e+01	−1.1345e−02	1.9234e+00	−1.0444e+01	1.3315e+00	−1.5328e−01	2.7088e+00	4.9744e+01
	1.00 0.99	0.98 0.96	0.93 0.91	0.89 0.86	0.84 0.83	0.72 0.67	0.62 0.51	0.36 0.21
^{65}Zn	$(np)^{65}$Cu	2.1340e+00	2.5	1.5	0.0300	0.01	1.4e−04	0
	2.0078e+01	1.6425e−02	5.6658e−01	−5.6949e+00	1.0208e+00	−5.9537e−02	1.1922e+00	2.0483e+01
^{65}Zn	$(n\alpha)^{62}$Ni	6.4820e+00	2.5	0.0	0.0300	0.01	3.8e−05	
	2.5610e+01	−4.1823e−02	5.3728e+00	−1.6504e+01	1.6125e+00	−1.0350e−01	5.8254e+00	2.6086e+01
	1.00 1.03	1.07 1.10	1.12 1.13	1.13 1.13	1.12 1.12	1.09 1.09	1.12 1.24	1.37 1.51
^{66}Zn	$(n\gamma)^{67}$Zn	7.0520e+00	0.0	2.5	0.0100	0.01	3.0e−05	
	2.3242e+01	−4.5516e−02	4.8154e+00	−1.3764e+01	1.7963e+00	−2.1191e−01	4.8416e+00	4.5134e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.02	1.04 0.94	0.62 0.32
^{66}Zn	$(n\alpha)^{63}$Ni	2.2590e+00	0.0	0.5	0.0100	0.01	1.3e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−2.3717e+02	1.3429e+00	−1.5269e+02	4.0982e+02	−2.6738e+01	1.4272e+00	−1.5518e+02	−2.3918e+02
^{67}Zn	$(n\gamma)^{68}$Zn	1.0198e+01	2.5	0.0	0.0450	0.01	8.1e−06	
	2.6396e+01	−5.7235e−02	6.0253e+00	−1.7107e+01	1.5495e+00	−1.5760e−01	6.0592e+00	5.1871e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.95 0.94	0.92 0.91	0.79 0.71	0.65 0.51	0.34 0.19
^{67}Zn	$(np)^{67}$Cu	2.0500e−01	2.5	1.5	0.0450	0.01	2.2e−03	0
	7.5031e+01	−4.5768e−01	7.4761e+01	−1.5671e+02	8.0749e+00	−4.2575e−01	7.9441e+01	7.5437e+01
^{67}Zn	$(n\alpha)^{64}$Ni	4.8650e+00	2.5	0.0	0.0450	0.01	6.5e−04	
	4.6543e+01	−9.3506e−01	4.9723e+01	−9.0861e+01	6.9915e+00	−4.4433e−01	4.0032e+01	4.7017e+01
	1.00 1.01	1.04 1.10	1.15 1.19	1.23 1.27	1.29 1.32	1.46 1.69	2.07 2.98	3.95 5.37
^{68}Zn	$(n\gamma)^{69}$Zn	6.4820e+00	0.0	0.5	0.0100	0.01	8.4e−05	
	2.8927e+01	−7.4115e−02	8.2565e+00	−2.4357e+01	2.8654e+00	−3.0393e−01	8.5464e+00	5.1918e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.02	1.05 0.98	0.62 0.28
^{68}Zn	$(n\alpha)^{65}$Ni	7.6500e−01	0.0	2.5	0.0100	0.01	1.0e−02	0
	1.5856e+02	−4.3821e+00	3.6233e+02	−5.6330e+02	2.7754e+01	−1.5067e+00	3.0154e+02	1.5545e+02
^{69}Zn	$(n\gamma)^{70}$Zn	9.2160e+00	0.5	0.0	0.0600	0.01	1.1e−04	
	1.7318e+01	−5.1353e−02	3.9599e+00	−5.1889e+00	1.8163e−01	−5.6479e−02	2.8293e+00	4.1696e+01
	1.00 1.00	1.00 1.00	1.00 0.99	1.00 1.00	1.00 0.99	0.89 0.76	0.65 0.45	0.26 0.13
^{69}Zn	$(n\alpha)^{66}$Ni	3.2600e+00	0.5	0.0	0.0600	0.01	7.7e−03	0
	−2.1959e+01	−1.9746e−01	−9.7126e+00	3.4862e+01	4.0869e−01	−1.7608e−01	−1.3564e+01	−2.2585e+01
^{70}Zn	$(n\gamma)^{71}$Zn	5.8340e+00	0.0	0.5	0.0200	0.01	5.5e−05	
	2.6567e+01	−7.0010e−02	7.6215e+00	−2.1498e+01	2.3903e+00	−2.5679e−01	7.7299e+00	4.9558e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.02	1.01 0.91	0.59 0.27
^{71}Zn	$(n\gamma)^{72}$Zn	8.8760e+00	0.5	0.0	0.1000	0.01	7.0e−05	
	3.2680e+01	−9.8286e−02	1.0662e+01	−3.0229e+01	2.7567e+00	−2.5535e−01	1.0834e+01	5.7058e+01
	1.00 1.00	1.00 0.99	0.98 0.95	0.93 0.90	0.88 0.85	0.74 0.72	0.70 0.60	0.39 0.20
^{71}Zn	$(n\alpha)^{68}$Ni	1.8110e+00	0.5	0.0	0.1000	0.01	1.2e−02	0
	−2.7917e+02	1.2832e+00	−1.5361e+02	4.5041e+02	−3.2413e+01	1.9554e+00	−1.6281e+02	−2.7980e+02
^{72}Zn	$(n\gamma)^{73}$Zn	5.3550e+00	0.0	0.5	0.0250	0.01	5.9e−04	0
	3.8570e+01	−1.4811e−01	1.6143e+01	−4.4462e+01	4.4091e+00	−4.0159e−01	1.6293e+01	6.1562e+01
^{73}Zn	$(n\gamma)^{74}$Zn	8.3710e+00	0.5	0.0	0.1550	0.01	1.4e−04	0
	2.5606e+01	−6.1188e−02	6.4659e+00	−1.8827e+01	1.7808e+00	−1.9002e−01	6.5549e+00	4.9984e+01
^{74}Zn	$(n\gamma)^{75}$Zn	4.8310e+00	0.0	3.5	0.0400	0.01	9.4e−04	0
	3.7393e+01	−1.4858e−01	1.6195e+01	−4.4595e+01	4.3977e+00	−3.8825e−01	1.6347e+01	5.8999e+01
^{75}Zn	$(n\gamma)^{76}$Zn	7.6460e+00	3.5	0.0	0.4400	0.01	2.7e−05	0
	1.8323e+01	−1.6815e−02	1.6266e+00	−6.9384e+00	1.0853e+00	−1.5752e−01	1.8080e+00	4.4088e+01
^{76}Zn	$(n\gamma)^{77}$Zn	4.6330e+00	0.0	3.5	0.0900	0.01	6.7e−04	0
	2.4405e+01	−8.5266e−02	8.8564e+00	−2.2834e+01	2.2050e+00	−2.0293e−01	8.6253e+00	4.6011e+01
^{77}Zn	$(n\gamma)^{78}$Zn	6.6890e+00	3.5	0.0	0.6600	0.01	9.4e−05	0
	1.3296e+01	3.5439e−03	−7.6042e−01	−1.0474e+00	7.8682e−01	−1.4460e−01	−6.0213e−01	3.9062e+01
^{78}Zn	$(n\gamma)^{79}$Zn	4.7870e+00	0.0	4.5	0.2650	0.01	3.8e−04	0
	3.3525e+01	−8.4652e−02	1.0433e+01	−3.5619e+01	4.4264e+00	−4.4621e−01	1.1642e+01	5.4909e+01
^{79}Zn	$(n\gamma)^{80}$Zn	5.9110e+00	4.5	0.0	0.7650	0.01	4.6e−05	0
	1.4466e+01	−3.0781e−02	2.5184e+00	−7.9133e+00	1.1952e+00	−1.4891e−01	2.3290e+00	4.0456e+01
^{80}Zn	$(n\gamma)^{81}$Zn	2.1510e+00	0.0	0.5	0.8650	0.01	4.4e−04	0
	3.7219e+01	−1.5189e−01	1.6604e+01	−5.0330e+01	5.6206e+00	−5.1304e−01	1.7229e+01	6.0213e+01
^{81}Zn	$(n\gamma)^{82}$Zn	4.1590e+00	0.5	0.0	4.5650	0.01	8.1e−06	0
	4.6084e+00	2.8660e−02	−4.0241e+00	9.7121e+00	−3.9761e−01	−4.0750e−02	−4.2611e+00	2.8989e+01
^{82}Zn	$(n\gamma)^{83}$Zn	1.5400e+00	0.0	0.5	1.7400	0.01	6.2e−04	0
	1.6138e+01	−2.0637e−02	2.3674e+00	−1.3590e+01	2.7483e+00	−3.3764e−01	3.1090e+00	3.9132e+01
^{83}Zn	$(n\gamma)^{84}$Zn	3.9900e+00	0.5	0.0	4.8250	0.01	2.3e−04	0
	8.7083e+00	−2.0434e−02	7.4405e−01	8.0236e−01	−1.7330e−02	−5.6747e−02	−7.4329e−02	3.3089e+01
^{84}Zn	$(n\gamma)^{85}$Zn	1.1580e+00	0.0	1.5	1.7250	0.01	4.2e−04	0
	3.3874e+00	5.2816e−02	−5.5139e+00	8.5835e+00	6.2268e−01	−1.7220e−01	−4.8499e+00	2.5689e+01
^{85}Zn	$(n\gamma)^{86}$Zn	3.5290e+00	1.5	0.0	5.3500	0.01	3.4e−05	0
	2.5897e+01	−6.8094e−02	8.2938e+00	−2.6809e+01	2.5559e+00	−2.4564e−01	9.0975e+00	5.0971e+01
^{86}Zn	$(n\gamma)^{87}$Zn	3.4400e−01	0.0	0.5	2.2150	0.01	4.0e−04	0
	−2.0741e+01	8.8967e−02	−1.2455e+01	3.8153e+01	−2.0139e+00	1.9722e−02	−1.4025e+01	2.2544e+00
^{87}Zn	$(n\gamma)^{88}$Zn	2.6510e+00	0.5	0.0	6.4600	0.01	3.8e−05	0
	3.0202e+01	−5.9474e−02	8.3076e+00	−3.2265e+01	3.1589e+00	−2.8988e−01	1.0015e+01	5.4584e+01
^{88}Zn	$(n\gamma)^{89}$Zn	2.4000e−01	0.0	1.5	2.7000	0.01	2.2e−03	0
	−3.5213e−01	−1.2693e−01	9.3131e+00	−6.0721e+00	4.8165e−01	−1.1329e−01	5.7605e+00	2.1950e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{89}Zn	(nγ)^{90}Zn	3.0710e+00	1.5	0.0	5.7050	0.01	4.0e−05	0
	3.1970e+01	−6.2670e−02	8.7937e+00	−3.4449e+01	3.3557e+00	−3.0551e−01	1.0644e+01	5.7046e+01
^{90}Zn	(nγ)^{91}Zn	3.0000e−02	0.0	1.5	1.8850	0.01	1.3e−03	0
	1.5075e+01	−2.4739e−01	2.4989e+01	−4.1885e+01	2.7356e+00	−2.5264e−01	2.1760e+01	3.7378e+01
^{91}Zn	(nγ)^{92}Zn	2.2640e+00	1.5	0.0	6.1200	0.01	7.5e−05	0
	2.8223e+01	−6.6508e−02	8.4788e+00	−3.1808e+01	3.2734e+00	−3.1480e−01	9.8712e+00	5.3298e+01
^{92}Zn	(nγ)^{93}Zn	2.8600e−01	0.0	2.5	n.c.	0.01	7.1e−04	0
	−5.0893e−01	5.8524e−03	−1.2265e+00	4.7147e+00	4.8088e−01	−1.6116e−01	−1.6145e+00	2.1389e+01
^{93}Zn	(nγ)^{94}Zn	2.0910e+00	2.5	0.0	n.c.	0.01	1.7e−04	0
	2.1922e+01	−4.2004e−02	5.6034e+00	−2.2748e+01	2.7097e+00	−3.0008e−01	6.7654e+00	4.7404e+01
^{95}Zn	(nγ)^{96}Zn	1.2470e+00	2.5	0.0	n.c.	0.01	3.3e−04	0
	3.3105e+01	−3.3158e−01	3.2266e+01	−6.6111e+01	5.1087e+00	−4.4203e−01	2.8843e+01	5.8587e+01
^{97}Zn	(nγ)^{98}Zn	1.5530e+00	0.5	0.0	n.c.	0.01	8.4e−03	0
	7.8301e+00	1.7357e−01	−1.4803e+01	8.9763e+00	2.5004e+00	−4.0762e−01	−1.0313e+01	3.2214e+01
^{99}Zn	(nγ)^{100}Zn	1.1730e+00	3.5	0.0	n.c.	0.01	4.1e−03	0
	7.2010e+01	−3.8959e−01	3.9820e+01	−1.1852e+02	1.2235e+01	−1.0342e+00	4.0124e+01	9.7780e+01
^{101}Zn	(nγ)^{102}Zn	3.1300e−01	3.5	0.0	n.c.	0.01	3.3e−01	0
	−4.2841e+02	2.8635e+00	−3.0842e+02	7.7444e+02	−5.5788e+01	3.3719e+00	−3.0282e+02	−4.0264e+02
^{67}Ga	(np)^{67}Zn	1.7830e+00	1.5	2.5	0.0100	0.01	2.6e−04	
	2.1267e+00	1.2275e−01	−1.1305e+01	2.4883e+01	−5.3748e−01	−3.8446e−02	−1.0717e+01	1.7212e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.03 1.04	1.25 1.48	1.66 1.83	1.83 1.70
^{67}Ga	(nα)^{64}Cu	4.1910e+00	1.5	1.0	0.0100	0.01	3.1e−03	0
	2.4286e+01	3.7105e−02	−5.0903e−01	−1.9526e+01	5.4764e+00	−5.4936e−01	2.7281e+00	2.3256e+01
^{68}Ga	(np)^{68}Zn	3.7030e+00	1.0	0.0	0.0100	0.01	6.9e−05	
	2.4057e+01	−6.3910e−03	3.2475e+00	−9.2474e+00	1.6113e−01	4.6573e−02	3.6035e+00	2.5155e+01
	1.00 1.00	1.00 1.00	0.99 0.99	0.98 0.96	0.94 0.92	0.71 0.58	0.52 0.47	0.52 0.66
^{68}Ga	(nα)^{65}Cu	5.8230e+00	1.0	1.5	0.0100	0.01	2.8e−04	0
	3.4277e+01	−1.6616e−01	1.5602e+01	−3.7548e+01	2.8566e+00	−1.3685e−01	1.5021e+01	3.2670e+01
^{69}Ga	(nγ)^{70}Ga	7.6550e+00	1.5	1.0	0.0100	0.01	1.5e−04	
	2.1071e+01	−1.7173e−02	1.7684e+00	−6.7179e+00	9.6187e−01	−1.4525e−01	1.9242e+00	4.5043e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.95 0.88	0.80 0.57	0.32 0.15
^{69}Ga	(nα)^{66}Cu	2.5800e+00	1.5	1.0	0.0100	0.01	1.7e−02	0
	−1.7829e+02	1.2415e+00	−1.3284e+02	3.2452e+02	−1.8392e+01	8.3021e−01	−1.2947e+02	−1.7932e+02
^{70}Ga	(nγ)^{71}Ga	9.3010e+00	1.0	1.5	0.0100	0.01	1.9e−04	
	5.4152e+00	4.2037e−02	−5.6634e+00	1.9793e+01	−2.0839e+00	1.1509e−01	−6.5313e+00	2.8812e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.94 0.77	0.58 0.33	0.18 0.10
^{70}Ga	(np)^{70}Zn	1.4370e+00	1.0	0.0	0.0100	0.01	6.0e−04	0
	−3.5789e+01	2.8749e−01	−3.0712e+01	8.3605e+01	−6.1839e+00	4.1801e−01	−3.1358e+01	−3.4690e+01
^{70}Ga	(nα)^{67}Cu	4.0420e+00	1.0	1.5	0.0100	0.01	1.5e−03	
	−1.4079e+01	1.9627e−01	−2.0338e+01	4.3186e+01	−9.0540e−01	−3.3946e−02	−1.8800e+01	−1.5688e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.02	1.61 2.90	4.41 7.21	10.04 13.24
^{71}Ga	(nγ)^{72}Ga	6.5210e+00	1.5	3.0	0.0100	0.01	1.2e−04	
	2.3677e+01	−5.9785e−02	5.7671e+00	−1.4274e+01	1.3674e+00	−1.6328e−01	5.3863e+00	4.6802e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.92 0.83	0.76 0.57	0.33 0.16
^{71}Ga	(nα)^{68}Cu	1.0540e+00	1.5	1.0	0.0100	0.01	9.6e−02	0
	−5.2183e+01	−2.4087e+00	1.8619e+02	−1.5313e+02	8.1039e−01	1.2114e−01	1.2870e+02	−5.3217e+01
^{72}Ga	(nγ)^{73}Ga	9.1910e+00	3.0	1.5	0.0100	0.01	5.9e−05	
	2.1164e+01	−1.0809e−02	1.3636e+00	−5.6687e+00	4.5179e−01	−7.7579e−02	1.6421e+00	4.5409e+01
	0.97 0.95	0.94 0.93	0.91 0.90	0.88 0.87	0.85 0.83	0.73 0.65	0.57 0.38	0.22 0.12
^{72}Ga	(np)^{72}Zn	3.2400e−01	3.0	0.0	0.0100	0.01	1.2e−03	0
	9.5937e+00	−4.8969e−01	5.6363e+01	−6.6780e+01	3.1953e−01	1.3178e−01	4.8659e+01	1.1540e+01
^{72}Ga	(nα)^{69}Cu	2.8030e+00	3.0	1.5	0.0100	0.01	1.2e−02	
	−8.3895e+01	4.8361e−01	−6.3589e+01	1.5123e+02	−6.5724e+00	1.9971e−01	−6.1922e+01	−8.4657e+01
	1.08 1.22	1.29 1.33	1.36 1.40	1.44 1.49	1.56 1.65	3.89 7.96	12.65 27.39	56.85 92.47
^{73}Ga	(nγ)^{74}Ga	6.4220e+00	1.5	3.0	0.0100	0.01	2.9e−04	
	3.3837e+01	−8.9756e−02	1.0118e+01	−3.0948e+01	3.1132e+00	−3.0181e−01	1.0643e+01	5.6963e+01
	1.00 1.00	1.00 1.00	0.99 0.98	0.96 0.95	0.93 0.92	0.85 0.85	0.86 0.71	0.41 0.19
^{74}Ga	(nγ)^{75}Ga	8.4820e+00	3.0	1.5	0.0100	0.01	8.8e−06	
	8.5632e+00	7.9566e−02	−8.5918e+00	1.7189e+01	−9.1684e−01	−6.5888e−03	−7.9932e+00	3.2808e+01
	1.00 0.96	0.90 0.85	0.82 0.80	0.78 0.78	0.77 0.77	0.77 0.74	0.68 0.48	0.29 0.15
^{74}Ga	(nα)^{71}Cu	3.5800e−01	3.0	1.5	0.0100	0.01	4.5e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−5.5830e+01	−1.6087e+01	3.2356e+02	−2.8793e+02	6.5575e+00	−1.0686e−01	2.0784e+02	−5.6595e+01
^{75}Ga	(nγ)^{76}Ga	5.8100e+00	1.5	2.0	0.0100	0.01	1.2e−04	
	3.5319e+01	−1.2394e−01	1.2793e+01	−3.7290e+01	3.8197e+00	−3.4693e−01	1.2860e+01	5.8782e+01
	0.98 0.93	0.90 0.88	0.86 0.85	0.84 0.82	0.81 0.80	0.76 0.79	0.83 0.83	0.57 0.29
^{76}Ga	(nγ)^{77}Ga	7.7430e+00	2.0	1.5	0.0250	0.01	4.4e−03	
	1.5722e+01	5.3445e−02	−4.7638e+00	4.9242e+00	4.1900e−01	−1.4978e−01	−3.6210e+00	3.9631e+01
	1.00 1.00	1.00 0.99	0.99 0.98	0.95 0.93	0.92 0.90	0.74 0.67	0.61 0.30	0.09 0.03
^{77}Ga	(nγ)^{78}Ga	5.8590e+00	1.5	3.0	0.0100	0.01	2.3e−04	
	2.8809e+01	−4.7921e−02	5.7269e+00	−2.3554e+01	2.8444e+00	−2.8053e−01	6.7411e+00	5.1936e+01
	1.00 1.00	0.99 0.97	0.94 0.91	0.88 0.85	0.83 0.81	0.78 0.86	0.92 0.88	0.60 0.31
^{78}Ga	(nγ)^{79}Ga	6.8970e+00	3.0	1.5	0.0650	0.01	8.5e−04	0
	3.4911e+01	−1.1835e−01	1.2458e+01	−3.5615e+01	3.6966e+00	−3.7507e−01	1.2543e+01	5.9158e+01
^{79}Ga	(nγ)^{80}Ga	4.6510e+00	1.5	0.0	0.0250	0.01	4.3e−05	0
	2.5647e+01	−9.5973e−02	9.1589e+00	−2.4052e+01	2.4412e+00	−2.3568e−01	8.6503e+00	5.0720e+01
^{80}Ga	(nγ)^{81}Ga	6.9860e+00	0.0	2.5	0.0950	0.01	4.5e−04	0
	3.2333e+01	9.1319e−02	−2.9145e+00	−1.5644e+01	1.6424e+00	−1.4646e−01	2.0321e+00	5.4228e+01
^{81}Ga	(nγ)^{82}Ga	3.2450e+00	2.5	0.0	0.0300	0.01	2.8e−05	0
	1.4292e+01	−2.7287e−02	2.1947e+00	−6.8208e+00	1.0459e+00	−1.3951e−01	2.0029e+00	3.9771e+01
^{82}Ga	(nγ)^{83}Ga	4.1530e+00	0.0	0.5	0.5400	0.01	1.7e−04	0
	3.3047e+01	3.5332e−02	1.8148e+00	−2.3919e+01	2.2395e+00	−1.8679e−01	5.8297e+00	5.6042e+01
^{83}Ga	(nγ)^{84}Ga	2.4620e+00	0.5	0.0	0.1750	0.01	2.3e−05	0
	2.6929e+01	−1.5004e−02	4.4982e+00	−2.2647e+01	2.1567e+00	−1.9654e−01	6.6345e+00	5.1310e+01
^{84}Ga	(nγ)^{85}Ga	4.1050e+00	0.0	0.5	0.5600	0.01	2.3e−04	0
	2.5222e+01	1.4149e−01	−8.5385e+00	−5.0714e+00	1.2115e+00	−1.3523e−01	−3.2022e+00	4.8217e+01
^{85}Ga	(nγ)^{86}Ga	1.8720e+00	0.5	2.0	0.1500	0.01	3.9e−05	0
	2.7889e+01	−1.6027e−02	4.6691e+00	−2.5109e+01	2.6699e+00	−2.5134e−01	7.0270e+00	5.0661e+01
^{86}Ga	(nγ)^{87}Ga	3.6350e+00	2.0	1.5	0.6900	0.01	3.1e−05	0
	2.7838e+01	−1.9699e−02	4.3972e+00	−2.2455e+01	2.0058e+00	−1.7748e−01	6.3250e+00	5.1750e+01
^{87}Ga	(nγ)^{88}Ga	1.4130e+00	1.5	0.0	0.1700	0.01	6.3e−05	0
	2.6001e+01	−5.5129e−02	7.0921e+00	−2.7890e+01	3.1045e+00	−2.9678e−01	8.4008e+00	5.1076e+01
^{88}Ga	(nγ)^{89}Ga	3.0390e+00	0.0	1.5	0.9500	0.01	1.7e−04	0
	1.2060e+01	2.3526e−01	−1.9400e+01	1.8370e+01	−2.6083e−02	−8.4573e−02	−1.3752e+01	3.4362e+01
^{89}Ga	(nγ)^{90}Ga	9.9100e−01	1.5	2.0	0.2550	0.01	1.5e−04	0
	2.3515e+01	−3.9247e−02	5.4555e+00	−2.4892e+01	3.1382e+00	−3.2108e−01	6.9257e+00	4.6981e+01
^{90}Ga	(nγ)^{91}Ga	3.2390e+00	2.0	0.5	1.0300	0.01	1.3e−04	0
	2.4598e+01	3.6118e−02	−8.3749e−01	−1.4584e+01	1.7334e+00	−1.7955e−01	2.0093e+00	4.9204e+01
^{91}Ga	(nγ)^{92}Ga	9.3400e−01	0.5	2.0	0.2000	0.01	2.6e−04	0
	2.5430e+01	1.7238e−03	2.6154e+00	−2.4278e+01	3.4028e+00	−3.5376e−01	5.3806e+00	4.8203e+01
^{92}Ga	(nγ)^{93}Ga	2.5920e+00	2.0	0.5	1.3500	0.01	1.2e−04	0
	2.5047e+01	1.9154e−04	2.1675e+00	−1.9500e+01	2.1366e+00	−2.1460e−01	4.3680e+00	4.9653e+01
^{93}Ga	(nγ)^{94}Ga	5.7600e−01	0.5	2.0	0.4150	0.01	4.8e−04	0
	1.6884e+01	4.4709e−02	−2.0948e+00	−1.2098e+01	2.6849e+00	−3.2567e−01	6.8143e−01	3.9657e+01
^{94}Ga	(nγ)^{95}Ga	1.9030e+00	2.0	0.5	1.9700	0.01	1.5e−04	0
	2.4821e+01	−2.3200e−03	2.4247e+00	−2.0994e+01	2.4762e+00	−2.5065e−01	4.6963e+00	4.9427e+01
^{96}Ga	(nγ)^{97}Ga	1.6980e+00	3.0	1.5	n.c.	0.01	2.3e−04	0
	2.3536e+01	1.7794e−02	3.9266e−01	−1.8795e+01	2.5797e+00	−2.6587e−01	3.0424e+00	4.7786e+01
^{97}Ga	(nγ)^{98}Ga	1.1000e−02	1.5	1.0	n.c.	0.01	3.6e−04	0
	−5.2504e+00	9.3530e−02	−4.7090e+00	7.8868e+00	−1.6219e−02	−1.2113e−01	−2.2717e+00	1.8728e+01
^{98}Ga	(nγ)^{99}Ga	1.6080e+00	1.0	1.5	n.c.	0.01	2.7e−04	0
	1.4596e+01	1.4525e−01	−1.1526e+01	3.3997e+00	1.2604e+00	−1.9467e−01	−7.1985e+00	3.7999e+01
^{100}Ga	(nγ)^{101}Ga	1.3190e+00	4.0	1.5	n.c.	0.01	1.8e−04	0
	2.2170e+01	6.4086e−02	−1.7106e+00	−1.6023e+01	2.1849e+00	−2.3587e−01	2.2970e+00	4.6672e+01
^{102}Ga	(nγ)^{103}Ga	4.5300e−01	3.0	1.5	n.c.	0.01	4.3e−03	0
	−8.2819e+01	3.6935e−01	−4.8501e+01	1.3996e+02	−9.7059e+00	4.9490e−01	−5.2713e+01	−5.8568e+01
^{104}Ga	(nγ)^{105}Ga	4.6400e−01	2.0	1.5	n.c.	0.01	1.4e−02	0
	−9.2964e+01	6.3217e−01	−7.1670e+01	1.7381e+02	−1.0569e+01	4.6818e−01	−7.1138e+01	−6.9050e+01
^{69}Ge	(np)^{69}Ga	3.0090e+00	2.5	1.5	0.0150	0.01	5.5e−05	
	2.2156e+01	1.0890e−02	1.3789e+00	−6.1857e+00	7.1539e−01	−4.2614e−02	1.9136e+00	2.2562e+01
	1.00 1.00	1.01 1.02	1.02 1.03	1.04 1.04	1.04 1.05	1.03 1.02	1.03 1.11	1.21 1.27
^{69}Ge	(nα)^{66}Zn	7.4490e+00	2.5	0.0	0.0150	0.01	1.3e−05	0
	1.8857e+01	−5.1292e−02	3.3668e+00	−5.2059e+00	1.0815e−01	2.8892e−02	2.7898e+00	1.9329e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{70}Ge	$(n\gamma)^{71}$Ge	7.4160e+00	0.0	0.5	0.0100	0.01	4.1e−05	
	2.2942e+01	−2.8153e−02	3.1586e+00	−1.1017e+01	1.8029e+00	−2.3415e−01	3.4325e+00	4.5933e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.04	1.06 0.92	0.55 0.25
^{70}Ge	$(n\alpha)^{67}$Zn	2.9630e+00	0.0	2.5	0.0100	0.01	1.5e−02	0
	−1.3855e+02	9.5969e−01	−1.0480e+02	2.5566e+02	−1.3548e+01	5.2436e−01	−1.0212e+02	−1.4166e+02
^{71}Ge	$(n\gamma)^{72}$Ge	1.0752e+01	0.5	0.0	0.0200	0.01	9.8e−05	
	2.5577e+01	−6.8233e−02	6.9663e+00	−1.6028e+01	1.1199e+00	−1.2004e−01	6.5518e+00	4.9955e+01
	1.00 1.00	1.00 1.01	1.02 1.03	1.03 1.04	1.05 1.05	1.02 0.93	0.81 0.60	0.37 0.19
^{71}Ge	$(np)^{71}$Ga	1.0120e+00	0.5	1.5	0.0200	0.01	3.1e−04	0
	−2.9863e+01	1.6417e−01	−1.8808e+01	6.0909e+01	−3.6517e+00	1.8904e−01	−2.0921e+01	−3.0556e+01
^{71}Ge	$(n\alpha)^{68}$Zn	5.7460e+00	0.5	0.0	0.0200	0.01	2.6e−04	
	4.3508e+01	−1.5381e−01	1.5555e+01	−4.9794e+01	4.7169e+00	−2.8825e−01	1.6882e+01	4.2880e+01
	1.00 1.00	1.00 0.97	0.93 0.86	0.79 0.73	0.67 0.63	0.43 0.42	0.50 0.86	1.59 2.77
^{72}Ge	$(n\gamma)^{73}$Ge	6.7830e+00	0.0	4.5	0.0100	0.01	6.1e−05	
	1.9277e+01	−2.1533e−02	2.1052e+00	−6.3062e+00	1.1052e+00	−1.6129e−01	2.0739e+00	4.0660e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.84	0.57 0.27
^{72}Ge	$(n\alpha)^{69}$Zn	1.4760e+00	0.0	0.5	0.0100	0.01	6.6e−02	0
	−2.8629e+02	1.9572e−01	−6.8438e+01	3.6777e+02	−3.1616e+01	2.0226e+00	−1.0251e+02	−2.8830e+02
^{73}Ge	$(n\gamma)^{74}$Ge	1.0196e+01	4.5	0.0	0.0250	0.01	1.1e−04	
	2.6217e+01	−3.8420e−02	4.3045e+00	−1.5077e+01	1.5936e+00	−1.7210e−01	4.7201e+00	5.2205e+01
	1.03 1.03	1.00 0.98	0.96 0.94	0.92 0.91	0.90 0.89	0.78 0.69	0.61 0.47	0.31 0.16
^{73}Ge	$(n\alpha)^{70}$Zn	3.9090e+00	4.5	0.0	0.0250	0.01	3.0e−03	0
	3.5117e+01	−8.6131e−02	8.3752e+00	−4.7633e+01	8.3588e+00	−7.4072e−01	1.2360e+01	3.6096e+01
^{74}Ge	$(n\gamma)^{75}$Ge	6.5050e+00	0.0	0.5	0.0100	0.01	2.2e−04	
	2.4311e+01	−6.4469e−02	6.4925e+00	−1.6715e+01	1.8393e+00	−2.0923e−01	6.2353e+00	4.7304e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.97 0.96	0.95 0.85	0.56 0.26
^{75}Ge	$(n\gamma)^{76}$Ge	9.4280e+00	0.5	0.0	0.0400	0.01	8.6e−05	
	4.0156e+01	−1.0181e−01	1.2181e+01	−3.9692e+01	3.9065e+00	−3.5018e−01	1.3313e+01	6.4535e+01
	1.00 0.99	1.00 0.98	0.95 0.91	0.88 0.83	0.80 0.78	0.68 0.69	0.71 0.69	0.48 0.24
^{75}Ge	$(n\alpha)^{72}$Zn	1.9170e+00	0.5	0.0	0.0400	0.01	1.2e−02	0
	−2.7335e+02	1.3423e+00	−1.5750e+02	4.4445e+02	−3.0009e+01	1.6891e+00	−1.6402e+02	−2.7398e+02
^{76}Ge	$(n\gamma)^{77}$Ge	6.0730e+00	0.0	3.5	0.0150	0.01	6.0e−04	
	3.0171e+01	−1.0042e−01	1.0593e+01	−2.8134e+01	2.7437e+00	−2.6433e−01	1.0462e+01	5.1778e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.98	0.98 0.93	0.67 0.31
^{77}Ge	$(n\gamma)^{78}$Ge	8.7190e+00	3.5	0.0	0.0850	0.01	1.1e−04	
	3.6855e+01	−1.1877e−01	1.3060e+01	−3.7312e+01	3.4259e+00	−3.0850e−01	1.3370e+01	6.2621e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.97	0.96 0.95	0.84 0.77	0.73 0.59	0.36 0.16
^{77}Ge	$(n\alpha)^{74}$Zn	1.4100e−01	3.5	0.0	0.0850	0.01	1.6e−02	0
	−2.6183e+02	−1.8364e+01	4.8955e+00	2.6449e+02	−2.5166e+01	1.6431e+00	−5.3350e+01	−2.6108e+02
^{78}Ge	$(n\gamma)^{79}$Ge	5.6970e+00	0.0	0.5	0.0150	0.01	6.9e−04	
	2.7043e+01	−1.2570e−01	1.2171e+01	−2.7443e+01	2.4495e+00	−2.3050e−01	1.1114e+01	5.0037e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.96	0.74 0.37
^{79}Ge	$(n\gamma)^{80}$Ge	8.0310e+00	0.5	0.0	0.1650	0.01	5.6e−04	
	5.2186e+01	−2.3186e−01	2.4920e+01	−6.7830e+01	6.1167e+00	−5.1161e−01	2.4959e+01	7.6566e+01
	1.00 1.00	1.00 1.00	0.99 0.98	0.97 0.96	0.95 0.93	0.80 0.78	0.81 0.83	0.51 0.21
^{80}Ge	$(n\gamma)^{81}$Ge	4.9260e+00	0.0	4.5	0.0650	0.01	3.6e−04	0
	2.4621e+01	−7.5449e−02	7.8150e+00	−2.1463e+01	2.3669e+00	−2.4789e−01	7.7288e+00	4.6006e+01
^{81}Ge	$(n\gamma)^{82}$Ge	7.3070e+00	4.5	0.0	0.4300	0.01	6.2e−05	0
	1.7433e+01	−1.7177e−02	1.5043e+00	−6.9387e+00	1.3055e+00	−1.8601e−01	1.6526e+00	4.3423e+01
^{82}Ge	$(n\gamma)^{83}$Ge	3.3560e+00	0.0	2.5	0.0950	0.01	2.4e−04	0
	2.2973e+01	−4.1422e−02	5.1956e+00	−1.9827e+01	2.9515e+00	−3.4417e−01	6.0243e+00	4.4869e+01
^{83}Ge	$(n\gamma)^{84}$Ge	5.3600e+00	2.5	0.0	1.5200	0.01	3.2e−05	0
	1.3133e+01	−8.2856e−03	3.2930e−01	−2.7813e+00	7.6798e−01	−1.3698e−01	3.0233e−01	3.8613e+01
^{84}Ge	$(n\gamma)^{85}$Ge	2.4770e+00	0.0	0.5	0.3900	0.01	1.2e−03	0
	1.7398e+01	−6.6282e−04	8.3975e−01	−1.0622e+01	2.4991e+00	−3.3867e−01	1.9264e+00	4.0393e+01
^{85}Ge	$(n\gamma)^{86}$Ge	4.9290e+00	0.5	0.0	2.1750	0.01	6.9e−05	0
	3.1684e+01	−7.6841e−02	1.0247e+01	−3.1841e+01	2.5457e+00	−2.3097e−01	1.1404e+01	5.6065e+01
^{86}Ge	$(n\gamma)^{87}$Ge	2.0610e+00	0.0	1.5	0.4300	0.01	6.2e−04	0
	5.1224e+00	5.6644e−02	−5.7586e+00	9.6181e+00	4.2781e−01	−1.7222e−01	−5.0713e+00	2.7425e+01
^{87}Ge	$(n\gamma)^{88}$Ge	4.3970e+00	1.5	0.0	2.5950	0.01	4.4e−05	0
	2.9791e+01	−7.8624e−02	9.8189e+00	−3.0413e+01	2.6227e+00	−2.5075e−01	1.0716e+01	5.4866e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{88}Ge	(nγ)^{89}Ge	1.6280e+00	0.0	1.5	0.5800	0.01	3.2e−04	0
	1.3465e+00	4.6993e−02	−5.5084e+00	1.3002e+01	−3.3303e−01	−8.6570e−02	−5.5076e+00	2.3649e+01
^{89}Ge	(nγ)^{90}Ge	3.9410e+00	1.5	0.0	3.0600	0.01	6.7e−05	0
	3.0061e+01	−5.9077e−02	8.3528e+00	−2.9885e+01	2.7491e+00	−2.6872e−01	9.8352e+00	5.5137e+01
^{90}Ge	(nγ)^{91}Ge	1.1870e+00	0.0	1.5	0.7600	0.01	3.5e−04	0
	6.4581e+00	1.7993e−02	−2.0730e+00	2.5301e+00	7.1546e−01	−1.7008e−01	−1.8355e+00	2.8761e+01
^{91}Ge	(nγ)^{92}Ge	3.7100e+00	1.5	0.0	3.5100	0.01	5.4e−05	0
	3.3640e+01	−5.3883e−02	8.4377e+00	−3.4283e+01	3.3197e+00	−3.1293e−01	1.0584e+01	5.8715e+01
^{92}Ge	(nγ)^{93}Ge	1.2780e+00	0.0	1.5	0.7200	0.01	7.3e−04	0
	2.3231e+01	−9.6448e−02	1.0191e+01	−2.8422e+01	2.9302e+00	−3.0706e−01	1.0206e+01	4.5534e+01
^{93}Ge	(nγ)^{94}Ge	3.2540e+00	1.5	0.0	3.6000	0.01	1.3e−04	0
	2.8112e+01	−4.2754e−02	6.5682e+00	−2.7037e+01	2.7660e+00	−2.9045e−01	8.2380e+00	5.3188e+01
^{94}Ge	(nγ)^{95}Ge	5.6700e−01	0.0	2.5	1.1950	0.01	1.3e−03	0
	2.1633e+01	−1.1358e−01	1.1813e+01	−3.1100e+01	3.3346e+00	−3.4743e−01	1.1571e+01	4.3531e+01
^{95}Ge	(nγ)^{96}Ge	2.7480e+00	2.5	0.0	4.6550	0.01	1.4e−04	0
	2.7045e+01	−6.2770e−02	7.7938e+00	−2.8685e+01	2.9842e+00	−3.0926e−01	8.9504e+00	5.2526e+01
^{96}Ge	(nγ)^{97}Ge	1.7600e−01	0.0	2.5	1.7050	0.01	3.1e−03	0
	1.1465e+01	−1.8686e−01	1.6805e+01	−2.8004e+01	2.5430e+00	−2.9480e−01	1.3810e+01	3.3363e+01
^{97}Ge	(nγ)^{98}Ge	2.5740e+00	2.5	0.0	5.2550	0.01	1.7e−04	0
	2.8078e+01	−6.9903e−02	8.4806e+00	−3.1048e+01	3.2470e+00	−3.3262e−01	9.6587e+00	5.3560e+01
^{98}Ge	(nγ)^{99}Ge	2.2200e−01	0.0	2.5	n.c.	0.01	1.2e−03	0
	1.7158e+00	−3.2520e−02	2.1871e+00	−1.9188e+00	1.1606e+00	−2.3278e−01	1.2689e+00	2.3615e+01
^{99}Ge	(nγ)^{100}Ge	2.4060e+00	2.5	0.0	n.c.	0.01	2.4e−04	0
	2.4663e+01	−5.1034e−02	6.4609e+00	−2.5601e+01	2.8637e+00	−3.1499e−01	7.6408e+00	5.0146e+01
^{100}Ge	(nγ)^{101}Ge	6.8000e−02	0.0	3.5	n.c.	0.01	3.5e−03	0
	1.4374e+01	−2.2692e−01	2.2257e+01	−3.7558e+01	2.7914e+00	−2.9876e−01	1.9158e+01	3.5985e+01
^{101}Ge	(nγ)^{102}Ge	1.8770e+00	3.5	0.0	n.c.	0.01	3.9e−04	0
	1.9850e+01	−3.4712e−02	4.5439e+00	−2.0401e+01	2.8255e+00	−3.3974e−01	5.6468e+00	4.5621e+01
^{103}Ge	(nγ)^{104}Ge	1.1340e+00	2.5	0.0	n.c.	0.01	4.8e−04	0
	1.7623e+01	−2.5733e−02	3.8066e+00	−1.9892e+01	3.0163e+00	−3.6112e−01	5.1374e+00	4.3106e+01
^{105}Ge	(nγ)^{106}Ge	1.0900e+00	4.5	0.0	n.c.	0.01	6.7e−04	0
	1.3975e+01	3.6849e−03	1.0386e+00	−1.3887e+01	2.7955e+00	−3.6745e−01	2.6561e+00	3.9969e+01
^{107}Ge	(nγ)^{108}Ge	8.2400e−01	0.5	0.0	n.c.	0.01	9.1e−04	0
	7.6912e+00	−1.0529e−02	9.2347e−02	−6.6559e+00	2.0933e+00	−3.1199e−01	3.1495e−01	3.2076e+01
^{71}As	(np)^{71}Ge	2.7950e+00	2.5	0.5	0.0100	0.01	6.9e−05	
	2.9201e+01	−7.7284e−03	4.2963e+00	−1.7512e+01	2.3119e+00	−2.1975e−01	5.5021e+00	3.0299e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.98 1.00	1.04 1.13	1.05 0.72
^{71}As	(nα)^{68}Ga	4.8370e+00	2.5	1.0	0.0100	0.01	2.0e−03	0
	3.7217e+01	−9.3858e−02	1.0284e+01	−4.3055e+01	6.6068e+00	−5.7385e−01	1.2765e+01	3.6589e+01
^{72}As	(nγ)^{73}As	1.0798e+01	2.0	1.5	0.0100	0.01	2.0e−05	
	1.6822e+01	2.1328e−02	−1.7459e+00	3.1271e+00	−1.3399e−01	−4.6725e−02	−1.3816e+00	4.0730e+01
	1.00 0.99	0.97 0.95	0.94 0.94	0.93 0.92	0.92 0.92	0.86 0.81	0.73 0.53	0.32 0.17
^{72}As	(np)^{72}Ge	5.1380e+00	2.0	0.0	0.0100	0.01	1.3e−04	0
	2.0212e+01	3.9220e−02	−6.4208e−01	−4.4143e−02	−3.6414e−01	4.1608e−02	2.0219e−01	2.1822e+01
^{72}As	(nα)^{69}Ga	6.7380e+00	2.0	1.5	0.0100	0.01	1.1e−04	
	2.9006e+01	−1.1934e−01	1.0374e+01	−2.5656e+01	2.1931e+00	−1.2143e−01	1.0056e+01	2.7907e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.97	0.89 0.90	0.98 1.33	1.87 2.54
^{73}As	(nγ)^{74}As	7.9750e+00	1.5	2.0	0.0100	0.01	4.1e−05	
	2.3792e+01	4.7768e−03	6.2135e−01	−7.7828e+00	1.1247e+00	−1.5011e−01	1.6567e+00	4.7254e+01
	1.00 1.00	0.99 0.97	0.96 0.96	0.96 0.96	0.96 0.96	0.97 0.94	0.89 0.71	0.45 0.22
^{73}As	(np)^{73}Ge	1.1230e+00	1.5	4.5	0.0100	0.01	5.3e−04	0
	−4.5336e+01	3.4354e−01	−3.5118e+01	9.6322e+01	−6.3734e+00	3.5343e−01	−3.5262e+01	−4.6252e+01
^{73}As	(nα)^{70}Ga	3.5960e+00	1.5	1.0	0.0100	0.01	1.2e−02	
	8.0788e+00	2.2605e−01	−1.9055e+01	7.5466e+00	6.4374e+00	−7.6022e−01	−1.2372e+01	7.0431e+00
	1.00 0.99	0.97 0.94	0.93 0.93	0.94 0.95	0.98 1.01	1.97 4.56	9.47 28.42	51.76 64.48
^{74}As	(nγ)^{75}As	1.0244e+01	2.0	1.5	0.0100	0.01	6.5e−04	
	4.4669e+01	−9.1259e−02	1.2537e+01	−4.2268e+01	3.7784e+00	−3.1912e−01	1.4391e+01	6.8577e+01
	1.00 1.00	1.00 0.99	0.98 0.94	0.91 0.86	0.81 0.76	0.54 0.49	0.47 0.38	0.25 0.14
^{74}As	(np)^{74}Ge	3.3450e+00	2.0	0.0	0.0100	0.01	4.5e−04	0
	6.2751e+01	−1.6686e−01	2.4385e+01	−7.5989e+01	6.3781e+00	−4.4282e−01	2.7135e+01	6.4360e+01
^{74}As	(nα)^{71}Ga	4.9210e+00	2.0	1.5	0.0100	0.01	7.9e−04	

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	7.6738e+01	−3.4537e−01	3.8358e+01	−1.1538e+02	1.1435e+01	−8.2234e−01	4.0740e+01	7.5637e+01
	1.00 1.00	1.00 1.00	0.99 0.97	0.95 0.91	0.87 0.83	0.74 1.05	1.73 4.18	8.72 11.88
^{75}As	$(n\gamma)^{76}$As	7.3280e+00	1.5	2.0	0.0100	0.01	1.5e−04	
	4.1207e+01	−1.3392e−01	1.4948e+01	−4.1996e+01	3.6707e+00	−3.1788e−01	1.5313e+01	6.4669e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.96	0.95 0.93	0.78 0.75	0.74 0.63	0.40 0.19
^{75}As	$(n\alpha)^{72}$Ga	1.1980e+00	1.5	3.0	0.0100	0.01	8.9e−02	0
	−8.2565e+01	−2.0809e+00	1.5245e+02	−8.5003e+01	−3.5188e+00	4.0545e−01	9.8181e+01	−8.4450e+01
^{76}As	$(n\gamma)^{77}$As	9.6980e+00	2.0	1.5	0.0100	0.01	3.8e−04	
	3.1508e+01	2.7207e−02	3.6510e−01	−1.6103e+01	2.0757e+00	−2.1887e−01	3.1083e+00	5.5418e+01
	1.00 0.98	0.94 0.89	0.84 0.79	0.73 0.69	0.65 0.62	0.48 0.46	0.45 0.37	0.25 0.13
^{76}As	$(np)^{76}$Ge	1.7060e+00	2.0	0.0	0.0100	0.01	3.3e−03	0
	3.1574e+01	1.3689e−01	−4.4035e+00	−1.9543e+01	3.6742e+00	−3.1059e−01	1.9166e+00	3.3184e+01
^{76}As	$(n\alpha)^{73}$Ga	3.0610e+00	2.0	1.5	0.0100	0.01	1.7e−02	
	−6.0260e+01	5.8372e−01	−6.0740e+01	1.2114e+02	−2.5686e+00	−1.6788e−01	−5.4664e+01	−6.1363e+01
	1.00 1.00	1.01 1.02	1.03 1.04	1.07 1.11	1.17 1.25	3.34 6.61	11.31 26.02	41.84 38.79
^{77}As	$(n\gamma)^{78}$As	6.9710e+00	1.5	2.0	0.0100	0.01	1.1e−04	
	3.8633e+01	−1.0573e−01	1.2211e+01	−3.7471e+01	3.5772e+00	−3.2449e−01	1.2968e+01	6.2096e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.95 0.93	0.90 0.88	0.76 0.75	0.76 0.67	0.43 0.21
^{78}As	$(n\gamma)^{79}$As	8.8910e+00	2.0	1.5	0.0100	0.01	3.6e−04	
	6.3277e+00	5.9101e−02	−6.8426e+00	2.0162e+01	−2.1130e+00	1.1504e−01	−7.1846e+00	3.0237e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.98	0.98 0.97	0.84 0.67	0.46 0.20	0.09 0.05
^{78}As	$(n\alpha)^{75}$Ga	1.2950e+00	2.0	1.5	0.0100	0.01	1.1e−01	0
	−2.4051e+02	−8.6448e−01	2.5418e+01	2.2064e+02	−2.6801e+01	1.9752e+00	−2.5036e+01	−2.4162e+02
^{79}As	$(n\gamma)^{80}$As	6.5530e+00	1.5	1.0	0.0100	0.01	3.9e−04	
	2.7046e+01	4.0236e−03	1.1529e+00	−1.4566e+01	2.3872e+00	−2.8298e−01	2.8776e+00	5.1020e+01
	1.00 1.00	0.98 0.95	0.92 0.89	0.86 0.84	0.82 0.81	0.79 0.84	0.89 0.78	0.43 0.18
^{80}As	$(n\gamma)^{81}$As	8.4860e+00	1.0	1.5	0.0100	0.01	5.7e−06	
	2.4486e+01	−4.6671e−02	5.2359e+00	−1.3269e+01	6.6281e−01	−7.3568e−02	5.2395e+00	4.7885e+01
	1.09 1.20	1.28 1.35	1.39 1.42	1.44 1.44	1.45 1.44	1.26 1.03	0.81 0.48	0.26 0.13
^{81}As	$(n\gamma)^{82}$As	5.7770e+00	1.5	1.0	0.0100	0.01	9.5e−05	
	2.9616e+01	−6.9605e−02	7.6891e+00	−2.5152e+01	2.7673e+00	−2.7994e−01	8.1974e+00	5.3591e+01
	1.00 1.00	0.99 0.97	0.96 0.94	0.92 0.91	0.89 0.87	0.79 0.79	0.80 0.71	0.44 0.21
^{82}As	$(n\gamma)^{83}$As	7.7130e+00	1.0	2.5	0.0300	0.01	3.8e−05	0
	2.8459e+01	−1.1238e−01	1.1408e+01	−2.4957e+01	1.3618e+00	−1.1080e−01	1.0578e+01	5.1453e+01
^{83}As	$(n\gamma)^{84}$As	4.1660e+00	2.5	0.0	0.0100	0.01	3.7e−05	0
	2.0570e+01	−5.1253e−02	4.9253e+00	−1.4462e+01	1.7177e+00	−1.9930e−01	4.8155e+00	4.6049e+01
^{84}As	$(n\gamma)^{85}$As	5.4540e+00	0.0	1.5	0.1350	0.01	3.1e−04	0
	3.7670e+01	−1.7375e−02	6.6469e+00	−3.2070e+01	2.6437e+00	−2.1427e−01	9.8516e+00	5.9972e+01
^{85}As	$(n\gamma)^{86}$As	3.2160e+00	1.5	2.0	0.1300	0.01	6.6e−05	0
	2.2210e+01	−9.1549e−02	8.9327e+00	−2.0515e+01	1.6471e+00	−1.7401e−01	8.2241e+00	4.5675e+01
^{86}As	$(n\gamma)^{87}$As	4.9970e+00	2.0	1.5	0.1750	0.01	1.8e−05	0
	2.9362e+01	−7.9893e−02	9.1688e+00	−2.6308e+01	1.8304e+00	−1.5388e−01	9.5508e+00	5.3274e+01
^{87}As	$(n\gamma)^{88}$As	2.8350e+00	1.5	2.0	0.0350	0.01	8.2e−05	0
	2.8663e+01	−6.4301e−02	8.3151e+00	−2.7440e+01	2.4803e+00	−2.3808e−01	9.3351e+00	5.2129e+01
^{88}As	$(n\gamma)^{89}$As	4.5620e+00	2.0	0.5	0.1750	0.01	1.2e−04	0
	3.1456e+01	−3.4525e−02	6.0614e+00	−2.6205e+01	2.2253e+00	−1.9702e−01	7.9368e+00	5.6061e+01
^{89}As	$(n\gamma)^{90}$As	2.4570e+00	0.5	2.0	0.0400	0.01	1.2e−04	0
	3.2088e+01	1.4861e−02	2.8492e+00	−2.6263e+01	2.9304e+00	−2.8412e−01	6.3796e+00	5.4861e+01
^{90}As	$(n\gamma)^{91}$As	4.1280e+00	2.0	0.5	0.2100	0.01	1.3e−04	0
	2.9224e+01	−6.9183e−03	3.4989e+00	−2.1783e+01	1.9989e+00	−1.9035e−01	5.7788e+00	5.3829e+01
^{91}As	$(n\gamma)^{92}$As	2.0120e+00	0.5	1.0	0.0500	0.01	2.1e−04	0
	3.0478e+01	2.3097e−02	1.7360e+00	−2.4351e+01	2.9761e+00	−3.0174e−01	5.2900e+00	5.3762e+01
^{92}As	$(n\gamma)^{93}$As	3.7710e+00	1.0	0.5	0.2800	0.01	2.4e−04	0
	2.2018e+01	1.4036e−01	−9.8924e+00	−7.6180e−01	1.1489e+00	−1.6371e−01	−5.1711e+00	4.6113e+01
^{93}As	$(n\gamma)^{94}$As	1.9410e+00	0.5	2.0	0.0500	0.01	2.6e−04	0
	2.7794e+01	4.9708e−02	−1.3362e+00	−1.8712e+01	2.7628e+00	−2.9840e−01	2.4086e+00	5.0568e+01
^{94}As	$(n\gamma)^{95}$As	3.4290e+00	2.0	1.5	0.2750	0.01	2.1e−04	0
	2.5065e+01	4.8633e−02	−2.0580e+00	−1.2801e+01	1.7190e+00	−1.9298e−01	9.8614e−01	4.8978e+01
^{95}As	$(n\gamma)^{96}$As	1.3270e+00	1.5	1.0	0.0800	0.01	2.7e−04	0
	2.8986e+01	−3.0766e−02	5.4864e+00	−2.9534e+01	3.5931e+00	−3.6250e−01	7.7735e+00	5.2963e+01
^{96}As	$(n\gamma)^{97}$As	2.8480e+00	1.0	1.5	0.5850	0.01	2.6e−04	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.7638e+01	1.3580e−01	−1.0715e+01	2.9620e+00	9.8593e−01	−1.6419e−01	−6.6343e+00	4.1040e+01
^{97}As	(nγ)^{98}As	1.1310e+00	1.5	3.0	0.1300	0.01	4.7e−04	0
	2.3648e+01	2.0584e−03	2.0053e+00	−2.0720e+01	2.9270e+00	−3.2513e−01	4.3669e+00	4.6779e+01
^{98}As	(nγ)^{99}As	2.7690e+00	3.0	0.5	0.7300	0.01	2.1e−04	0
	2.4958e+01	7.3536e−03	1.1190e+00	−1.7665e+01	2.1305e+00	−2.2953e−01	3.3153e+00	4.9901e+01
^{99}As	(nγ)^{100}As	1.0380e+00	0.5	3.0	0.1400	0.01	6.3e−04	0
	1.9567e+01	9.0700e−02	−5.7768e+00	−8.8702e+00	2.4278e+00	−3.0765e−01	−1.8394e+00	4.2005e+01
^{100}As	(nγ)^{101}As	2.2680e+00	3.0	0.5	0.9200	0.01	1.8e−04	0
	2.2424e+01	−1.2818e−02	2.5584e+00	−1.7247e+01	1.8820e+00	−2.0727e−01	4.0480e+00	4.7367e+01
^{101}As	(nγ)^{102}As	7.2900e−01	0.5	3.0	n.c.	0.01	8.4e−04	0
	1.4376e+01	1.2574e−01	−9.2757e+00	−9.1039e−01	1.9847e+00	−2.8741e−01	−5.0939e+00	3.6814e+01
^{102}As	(nγ)^{103}As	2.1220e+00	3.0	0.5	n.c.	0.01	1.7e−04	0
	2.3115e+01	1.6553e−03	1.6308e+00	−1.7755e+01	2.0767e+00	−2.2350e−01	3.6580e+00	4.8059e+01
^{104}As	(nγ)^{105}As	1.3300e+00	2.0	0.5	n.c.	0.01	3.4e−04	0
	2.1177e+01	3.5733e−02	−1.1182e+00	−1.5723e+01	2.4667e+00	−2.7445e−01	1.7838e+00	4.5785e+01
^{106}As	(nγ)^{107}As	1.1940e+00	5.0	0.5	n.c.	0.01	2.6e−04	0
	2.0318e+01	−3.1001e−02	4.2777e+00	−2.1124e+01	2.5678e+00	−2.7713e−01	5.5867e+00	4.5714e+01
^{108}As	(nγ)^{109}As	8.1700e−01	4.0	0.5	n.c.	0.01	3.7e−04	0
	1.2776e+01	−5.3225e−03	1.1901e+00	−1.1519e+01	1.9171e+00	−2.4560e−01	2.2412e+00	3.7972e+01
^{110}As	(nγ)^{111}As	5.2300e−01	5.0	0.5	n.c.	0.01	3.4e−04	0
	−3.8225e+00	6.4680e−02	−7.0738e+00	1.3695e+01	−3.5871e−03	−1.2935e−01	−6.6002e+00	2.1574e+01
^{73}Se	(np)^{73}As	3.5230e+00	4.5	1.5	0.0100	0.01	2.0e−05	
	2.4324e+01	3.8131e−02	2.7285e−01	−6.3717e+00	6.4235e−01	−3.9527e−02	1.8011e+00	2.5240e+01
	1.04 1.14	1.19 1.22	1.22 1.23	1.22 1.22	1.20 1.19	1.10 1.05	1.03 1.04	1.08 1.09
^{73}Se	(nα)^{70}Ge	7.9910e+00	4.5	0.0	0.0100	0.01	1.0e−04	0
	2.6829e+01	−1.4331e−01	9.9105e+00	−2.1303e+01	1.2749e+00	−3.2069e−02	9.2539e+00	2.7808e+01
^{74}Se	(nγ)^{75}Se	8.0280e+00	0.0	2.5	0.0100	0.01	1.6e−04	
	2.6521e+01	−5.3197e−02	5.8293e+00	−1.6756e+01	1.9488e+00	−2.1538e−01	5.9574e+00	4.8415e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.03	1.04 0.97	0.70 0.34
^{74}Se	(nα)^{71}Ge	3.3400e+00	0.0	0.5	0.0100	0.01	1.5e−02	0
	−1.2395e+02	9.3568e−01	−9.9369e+01	2.3466e+02	−1.1883e+01	4.4978e−01	−9.5545e+01	−1.2597e+02
^{75}Se	(nγ)^{76}Se	1.1154e+01	2.5	0.0	0.0100	0.01	2.3e−05	
	2.9416e+01	−1.1982e−02	3.1652e+00	−1.6165e+01	1.8238e+00	−2.0137e−01	4.6252e+00	5.4894e+01
	1.00 1.00	0.99 0.98	0.95 0.93	0.91 0.89	0.87 0.86	0.81 0.78	0.74 0.59	0.36 0.17
^{75}Se	(np)^{75}As	1.6460e+00	2.5	1.5	0.0100	0.01	4.7e−04	0
	8.6144e+00	1.8638e−01	−1.3323e+01	1.6324e+01	9.0840e−01	−1.5887e−01	−9.5342e+00	9.0198e+00
^{75}Se	(nα)^{72}Ge	6.0630e+00	2.5	0.0	0.0100	0.01	1.4e−04	
	3.9629e+01	−9.5677e−02	1.1557e+01	−4.3051e+01	4.8748e+00	−3.4511e−01	1.3646e+01	4.0096e+01
	1.00 1.00	0.98 0.94	0.89 0.84	0.79 0.76	0.73 0.71	0.69 0.86	1.17 2.24	3.61 5.34
^{76}Se	(nγ)^{77}Se	7.4190e+00	0.0	0.5	0.0100	0.01	1.7e−04	
	2.1313e+01	−2.5664e−02	2.6619e+00	−8.3811e+00	1.3034e+00	−1.7766e−01	2.7321e+00	4.4306e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.05 1.09	1.09 0.97	0.66 0.31
^{76}Se	(nα)^{73}Ge	1.6920e+00	0.0	4.5	0.0100	0.01	9.5e−02	0
	−2.6802e+02	−1.5066e−02	−4.9554e+01	3.3108e+02	−3.0063e+01	1.9898e+00	−8.5905e+01	−2.7165e+02
^{77}Se	(nγ)^{78}Se	1.0498e+01	0.5	0.0	0.0150	0.01	2.4e−05	
	3.7517e+01	−7.7483e−02	9.9998e+00	−3.2802e+01	3.0271e+00	−2.7187e−01	1.1201e+01	6.1896e+01
	1.00 1.00	1.00 1.00	0.98 0.96	0.94 0.91	0.88 0.86	0.76 0.72	0.70 0.60	0.41 0.21
^{77}Se	(np)^{77}As	9.9000e−02	0.5	1.5	0.0150	0.01	6.5e−04	0
	3.3314e+01	1.4903e+00	−7.0955e+01	3.5359e+01	−1.6505e+00	7.5372e−02	−2.0890e+01	3.2621e+01
^{77}Se	(nα)^{74}Ge	4.4700e+00	0.5	0.0	0.0150	0.01	7.3e−03	
	8.3305e+01	−1.3017e+00	6.9582e+01	−1.5959e+02	1.5758e+01	−1.1987e+00	6.1206e+01	8.2672e+01
	1.00 1.00	0.99 0.94	0.86 0.77	0.68 0.61	0.55 0.51	0.51 0.98	1.95 5.35	11.07 14.42
^{78}Se	(nγ)^{79}Se	6.9630e+00	0.0	3.5	0.0100	0.01	3.7e−04	
	3.0526e+01	−8.4890e−02	9.1485e+00	−2.5994e+01	2.9375e+00	−3.1069e−01	9.2681e+00	5.2134e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.06	1.09 1.04	0.67 0.26
^{78}Se	(nα)^{75}Ge	4.7700e−01	0.0	0.5	0.0100	0.01	5.8e−03	0
	−1.8374e+01	−1.7740e+01	4.5077e+02	−4.5789e+02	1.4044e+01	−4.6004e−01	3.0084e+02	−2.0394e+01
^{79}Se	(nγ)^{80}Se	9.9130e+00	3.5	0.0	0.0250	0.01	1.0e−04	
	3.3678e+01	−7.6602e−02	8.9488e+00	−2.7923e+01	2.6205e+00	−2.4783e−01	9.5911e+00	5.9445e+01
	1.00 1.00	0.99 0.98	0.97 0.95	0.93 0.91	0.90 0.88	0.78 0.70	0.63 0.51	0.32 0.15
^{79}Se	(nα)^{76}Ge	2.9420e+00	3.5	0.0	0.0250	0.01	2.6e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−6.1873e+01	−1.6417e−01	−2.6495e+01	8.4163e+01	−7.9818e−01	−2.8759e−01	−3.1786e+01	−6.1122e+01
^{80}Se	$(n\gamma)^{81}$Se	6.7010e+00	0.0	0.5	0.0100	0.01	2.4e−04	
	2.5554e+01	−6.3662e−02	6.5046e+00	−1.8557e+01	2.3943e+00	−2.8032e−01	6.4576e+00	4.8548e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.07	1.12 1.05	0.65 0.26
^{81}Se	$(n\gamma)^{82}$Se	9.2760e+00	0.5	0.0	0.0450	0.01	1.2e−04	
	3.6544e+01	−1.2787e−01	1.3658e+01	−3.6968e+01	3.3249e+00	−3.0349e−01	1.3626e+01	6.0924e+01
	1.00 1.00	1.02 1.04	1.06 1.08	1.09 1.09	1.09 1.09	1.01 0.97	0.93 0.78	0.47 0.21
^{81}Se	$(n\alpha)^{78}$Ge	1.1200e+00	0.5	0.0	0.0450	0.01	2.6e−02	0
	−6.8691e+01	−2.3337e+00	1.7786e+02	−1.3139e+02	−9.1054e−01	2.6291e−01	1.2059e+02	−6.9327e+01
^{82}Se	$(n\gamma)^{83}$Se	5.8180e+00	0.0	4.5	0.0150	0.01	5.2e−04	
	3.0971e+01	−9.4632e−02	1.0143e+01	−2.9137e+01	3.1988e+00	−3.2507e−01	1.0293e+01	5.2356e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 1.00	1.03 1.02	0.66 0.27
^{83}Se	$(n\gamma)^{84}$Se	8.6810e+00	4.5	0.0	0.1100	0.01	1.5e−04	
	1.9997e+01	−3.1562e−02	2.8275e+00	−8.8464e+00	1.2485e+00	−1.7886e−01	2.7299e+00	4.5988e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.95 0.87	0.76 0.49	0.23 0.09
^{84}Se	$(n\gamma)^{85}$Se	4.5480e+00	0.0	2.5	0.0150	0.01	5.6e−04	0
	3.2501e+01	−9.6075e−02	1.0920e+01	−3.4254e+01	4.2332e+00	−4.4886e−01	1.1583e+01	5.4397e+01
^{85}Se	$(n\gamma)^{86}$Se	6.1820e+00	2.5	0.0	0.3650	0.01	5.9e−05	0
	1.3442e+01	−7.1045e−03	4.8557e−02	−1.4255e+00	6.0364e−01	−1.3000e−01	−9.5501e−02	3.8922e+01
^{86}Se	$(n\gamma)^{87}$Se	4.1130e+00	0.0	2.5	0.1000	0.01	1.6e−03	0
	2.6153e+01	−5.7758e−02	6.6973e+00	−2.3044e+01	3.3853e+00	−4.0995e−01	7.3349e+00	4.8050e+01
^{87}Se	$(n\gamma)^{88}$Se	5.3670e+00	2.5	0.0	0.3550	0.01	7.5e−05	0
	2.3769e+01	−7.8673e−02	8.0541e+00	−2.0946e+01	1.8201e+00	−2.0072e−01	7.8179e+00	4.9249e+01
^{88}Se	$(n\gamma)^{89}$Se	3.0420e+00	0.0	2.5	0.1850	0.01	4.0e−04	0
	7.2175e+00	3.6991e−02	−3.8572e+00	7.7197e+00	2.5861e−01	−1.5498e−01	−3.5715e+00	2.9115e+01
^{89}Se	$(n\gamma)^{90}$Se	5.3690e+00	2.5	0.0	0.9150	0.01	8.7e−05	0
	2.8925e+01	−1.0396e−01	1.1059e+01	−2.9334e+01	2.4915e+00	−2.5278e−01	1.0956e+01	5.4405e+01
^{90}Se	$(n\gamma)^{91}$Se	2.5390e+00	0.0	1.5	0.1350	0.01	2.8e−04	0
	5.5881e+00	2.6636e−02	−3.3205e+00	8.4981e+00	−8.2441e−02	−1.1266e−01	−3.4634e+00	2.7891e+01
^{91}Se	$(n\gamma)^{92}$Se	4.9850e+00	1.5	0.0	1.1750	0.01	1.6e−04	0
	3.4315e+01	−7.5334e−02	1.0310e+01	−3.4639e+01	3.0141e+00	−2.8894e−01	1.1814e+01	5.9391e+01
^{92}Se	$(n\gamma)^{93}$Se	2.1900e+00	0.0	1.5	0.1700	0.01	2.7e−04	0
	8.7906e+00	1.7248e−02	−1.8101e+00	2.8095e+00	5.0815e−01	−1.6494e−01	−1.6074e+00	3.1094e+01
^{93}Se	$(n\gamma)^{94}$Se	4.6250e+00	1.5	0.0	1.4250	0.01	1.1e−04	0
	3.5076e+01	−3.6641e−02	7.2032e+00	−3.2742e+01	3.1949e+00	−3.1129e−01	9.7602e+00	6.0152e+01
^{94}Se	$(n\gamma)^{95}$Se	2.0810e+00	0.0	1.5	0.1950	0.01	9.6e−04	0
	2.8580e+01	−1.4172e−01	1.4586e+01	−3.6101e+01	3.2033e+00	−3.2204e−01	1.4005e+01	5.0884e+01
^{95}Se	$(n\gamma)^{96}$Se	4.1240e+00	1.5	0.0	1.6900	0.01	2.1e−04	0
	3.0609e+01	−2.7771e−02	5.6812e+00	−2.6959e+01	2.7422e+00	−2.9144e−01	7.8564e+00	5.5685e+01
^{96}Se	$(n\gamma)^{97}$Se	1.4590e+00	0.0	2.5	0.3450	0.01	7.5e−04	0
	2.6480e+01	−9.3212e−02	1.0688e+01	−3.1650e+01	3.2781e+00	−3.4839e−01	1.1206e+01	4.8379e+01
^{97}Se	$(n\gamma)^{98}$Se	3.5660e+00	2.5	0.0	2.5800	0.01	2.3e−04	0
	2.7261e+01	−4.5146e−02	6.2235e+00	−2.5195e+01	2.6369e+00	−2.9087e−01	7.5774e+00	5.2743e+01
^{98}Se	$(n\gamma)^{99}$Se	1.2990e+00	0.0	2.5	0.5500	0.01	1.6e−03	0
	3.1652e+01	−1.6826e−01	1.7740e+01	−4.4588e+01	3.9805e+00	−3.9010e−01	1.7270e+01	5.3551e+01
^{99}Se	$(n\gamma)^{100}$Se	3.7610e+00	2.5	0.0	2.6350	0.01	1.9e−04	0
	3.0520e+01	−5.4326e−02	7.4589e+00	−2.9969e+01	3.0525e+00	−3.1881e−01	9.0533e+00	5.6002e+01
^{100}Se	$(n\gamma)^{101}$Se	1.1370e+00	0.0	2.5	0.5900	0.01	9.0e−04	0
	2.4239e+01	−8.0229e−02	9.3286e+00	−2.9211e+01	3.2438e+00	−3.5796e−01	9.9834e+00	4.6138e+01
^{101}Se	$(n\gamma)^{102}$Se	2.9450e+00	2.5	0.0	3.7550	0.01	4.5e−04	0
	2.1142e+01	−2.3302e−02	3.5920e+00	−1.7189e+01	2.1486e+00	−2.7854e−01	4.7405e+00	4.6624e+01
^{102}Se	$(n\gamma)^{103}$Se	8.7600e−01	0.0	3.5	1.2750	0.01	8.7e−04	0
	9.2737e+00	4.0443e−02	−2.6305e+00	−1.6248e+00	1.3029e+00	−2.4228e−01	−1.1247e+00	3.0885e+01
^{103}Se	$(n\gamma)^{104}$Se	2.6970e+00	3.5	0.0	4.4250	0.01	4.2e−04	0
	2.1541e+01	−4.1137e−02	5.1229e+00	−2.0266e+01	2.5070e+00	−3.0992e−01	6.0164e+00	4.7312e+01
^{104}Se	$(n\gamma)^{105}$Se	3.7000e−02	0.0	2.5	n.c.	0.01	3.2e−03	0
	3.0340e+01	−4.0597e−01	4.0245e+01	−7.4207e+01	5.1197e+00	−4.3902e−01	3.5458e+01	5.2240e+01
^{105}Se	$(n\gamma)^{106}$Se	1.9450e+00	2.5	0.0	n.c.	0.01	4.0e−04	0
	2.1306e+01	−4.0524e−02	5.1890e+00	−2.1923e+01	2.7857e+00	−3.3102e−01	6.2818e+00	4.6789e+01
^{107}Se	$(n\gamma)^{108}$Se	1.9070e+00	4.5	0.0	n.c.	0.01	5.0e−04	0
	2.0482e+01	−4.6970e−02	5.6368e+00	−2.2276e+01	2.9387e+00	−3.5365e−01	6.5447e+00	4.6476e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{109}Se	(nγ)^{110}Se	1.4020e+00	3.5	0.0	n.c.	0.01	1.2e−03	0
		1.0611e+01	5.6184e−02	−3.4540e+00	−5.0027e+00	2.3225e+00	−3.6324e−01	−1.0890e+00	3.6382e+01
^{111}Se	(nγ)^{112}Se	1.6690e+00	4.5	0.0	n.c.	0.01	7.5e−04	0
		1.3141e+01	3.8659e−02	−1.6809e+00	−8.8103e+00	2.1979e+00	−3.1713e−01	5.5926e−01	3.9136e+01
^{113}Se	(nγ)^{114}Se	1.0660e+00	0.5	0.0	n.c.	0.01	2.5e−04	0
		8.7266e−01	−5.1066e−02	2.3743e+00	2.4696e+00	1.9073e−02	−1.1617e−01	3.0628e−01	2.5258e+01
^{114}Se	(nγ)^{115}Se	1.2520e+00	0.0	5.5	n.c.	0.01	3.1e−03	0
		−1.5506e+00	9.4021e−02	−8.8567e+00	2.0249e+01	−1.9263e+00	6.7151e−02	−7.9869e+00	1.9657e+01
^{115}Se	(nγ)^{116}Se	9.3600e−01	5.5	0.0	n.c.	0.01	9.7e−03	0
		−2.1570e+01	6.8798e−01	−5.3297e+01	7.5200e+01	−2.0803e+00	−1.0125e−01	−3.8689e+01	4.6077e+00
^{75}Br	(np)^{75}Se	3.8120e+00	1.5	2.5	0.0100	0.01	3.9e−06	
		2.6968e+01	3.9696e−02	4.7480e−01	−9.0575e+00	1.0260e+00	−7.7220e−02	2.3530e+00	2.6562e+01
	1.00 1.00	1.00 0.99	0.98 0.96	0.94 0.93	0.92 0.91	0.87 0.88	0.90 0.94	0.96 0.92
^{75}Br	(nα)^{72}As	4.7370e+00	1.5	2.0	0.0100	0.01	1.6e−03	0
		4.9043e+01	−2.2885e−01	2.1484e+01	−7.0543e+01	9.1306e+00	−7.6077e−01	2.3596e+01	4.7495e+01
^{76}Br	(nγ)^{77}Br	1.1017e+01	1.0	1.5	0.0100	0.01	1.3e−04	
		3.0116e+01	−7.4943e−02	9.1295e+00	−2.2287e+01	1.6402e+00	−1.6446e−01	9.2826e+00	5.3514e+01
	1.00 1.04	1.09 1.14	1.20 1.24	1.27 1.29	1.30 1.31	1.24 1.14	1.03 0.74	0.43 0.21
^{76}Br	(np)^{76}Se	5.7460e+00	1.0	0.0	0.0100	0.01	5.0e−05	0
		2.4590e+01	4.1211e−02	4.4613e−02	−5.3907e+00	3.9429e−01	−3.5837e−02	1.5706e+00	2.5689e+01
^{76}Br	(nα)^{73}As	6.3150e+00	1.0	1.5	0.0100	0.01	1.5e−04	
		2.7562e+01	−1.3538e−01	1.0020e+01	−2.6300e+01	2.7936e+00	−1.9003e−01	9.9565e+00	2.5949e+01
	1.00 1.01	1.00 0.99	0.97 0.96	0.95 0.94	0.93 0.92	0.92 1.05	1.30 2.05	3.02 4.41
^{77}Br	(nγ)^{78}Br	8.2890e+00	1.5	1.0	0.0100	0.01	2.4e−05	
		3.8557e+01	−5.4768e−02	8.4189e+00	−3.1447e+01	3.0700e+00	−2.8222e−01	1.0233e+01	6.2531e+01
	1.00 1.00	1.00 0.99	0.97 0.95	0.93 0.91	0.90 0.89	0.83 0.82	0.81 0.72	0.49 0.24
^{77}Br	(np)^{77}Se	2.1470e+00	1.5	0.5	0.0100	0.01	1.4e−04	0
		4.0969e+01	−5.1948e−02	1.0471e+01	−4.0792e+01	4.9302e+00	−4.1894e−01	1.2868e+01	4.1662e+01
^{77}Br	(nα)^{74}As	3.2720e+00	1.5	2.0	0.0100	0.01	1.5e−02	0
		−6.8746e+01	6.0420e−01	−6.5053e+01	1.3539e+02	−3.1441e+00	−1.7403e−01	−5.9595e+01	−7.0296e+01
^{78}Br	(nγ)^{79}Br	1.0687e+01	1.0	1.5	0.0100	0.01	3.4e−05	
		1.9418e+01	4.6112e−02	−2.8923e+00	2.4357e+00	−1.7036e−01	−4.1129e−02	−1.5748e+00	4.2817e+01
	1.02 1.04	1.04 1.04	1.04 1.04	1.04 1.04	1.05 1.05	1.02 0.93	0.81 0.54	0.30 0.15
^{78}Br	(np)^{78}Se	4.3560e+00	1.0	0.0	0.0100	0.01	1.8e−04	0
		1.3958e+01	8.2350e−02	−5.4959e+00	1.0858e+01	−1.4822e+00	1.6070e−01	−4.4888e+00	1.5057e+01
^{78}Br	(nα)^{75}As	5.2270e+00	1.0	1.5	0.0100	0.01	8.6e−04	
		3.6523e+01	−1.5580e−01	1.3125e+01	−4.4401e+01	5.4469e+00	−4.0918e−01	1.4653e+01	3.4908e+01
	1.02 1.00	0.98 0.96	0.95 0.94	0.93 0.93	0.92 0.92	1.04 1.45	2.24 4.76	8.42 14.05
^{79}Br	(nγ)^{80}Br	7.8920e+00	1.5	1.0	0.0100	0.01	1.0e−04	
		3.7652e+01	−9.0942e−02	1.1061e+01	−3.3565e+01	3.1201e+00	−2.9680e−01	1.1903e+01	6.1627e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.97	0.96 0.95	0.87 0.85	0.82 0.67	0.39 0.17
^{79}Br	(np)^{79}Se	6.3100e−01	1.5	3.5	0.0100	0.01	5.5e−03	0
		−3.0248e+00	−4.8728e−01	4.4505e+01	−3.7788e+01	5.6806e−01	−2.1956e−02	3.2651e+01	−3.7179e+00
^{79}Br	(nα)^{76}As	1.8680e+00	1.5	2.0	0.0100	0.01	4.9e−02	0
		−2.8530e+02	7.1571e−01	−1.1250e+02	4.1072e+02	−3.0628e+01	1.7788e+00	−1.3410e+02	−2.8685e+02
^{80}Br	(nγ)^{81}Br	1.0157e+01	1.0	1.5	0.0100	0.01	3.4e−04	
		4.5799e+01	−1.3453e−01	1.6268e+01	−4.6979e+01	3.7923e+00	−3.0836e−01	1.7249e+01	6.9198e+01
	1.01 1.04	1.07 1.10	1.12 1.13	1.13 1.11	1.09 1.05	0.75 0.63	0.57 0.42	0.26 0.13
^{80}Br	(np)^{80}Se	2.6530e+00	1.0	0.0	0.0100	0.01	2.8e−04	0
		3.0488e+01	−2.2027e−03	3.9044e+00	−2.2489e+01	2.4238e+00	−1.3758e−01	5.8344e+00	3.1586e+01
^{80}Br	(nα)^{77}As	3.6740e+00	1.0	1.5	0.0100	0.01	9.4e−03	
		−4.4485e+00	2.2577e−01	−2.2626e+01	2.4005e+01	4.3737e+00	−5.8256e−01	−1.7095e+01	−6.0651e+00
	1.01 1.02	0.97 0.91	0.87 0.83	0.82 0.81	0.81 0.82	1.47 3.47	6.70 17.52	34.52 38.58
^{81}Br	(nγ)^{82}Br	7.5930e+00	1.5	5.0	0.0100	0.01	1.6e−04	
		3.1084e+01	−8.4589e−02	9.0994e+00	−2.4758e+01	2.2366e+00	−2.2699e−01	9.1172e+00	5.3760e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.98 0.98	0.88 0.80	0.74 0.57	0.33 0.15
^{81}Br	(nα)^{78}As	4.8900e−01	1.5	2.0	0.0100	0.01	2.1e−02	0
		−1.6236e+02	−1.7554e+01	1.6806e+02	−1.3402e+01	−7.3844e+00	5.4173e−01	7.6770e+01	−1.6391e+02
^{82}Br	(nγ)^{83}Br	9.5840e+00	5.0	1.5	0.0100	0.01	3.0e−05	
		2.3269e+01	−1.2830e−02	2.2207e+00	−8.1311e+00	5.9660e−01	−9.1475e−02	2.7550e+00	4.7968e+01
	1.00 1.00	0.99 0.98	0.98 0.97	0.96 0.95	0.94 0.92	0.78 0.65	0.54 0.34	0.19 0.09

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{82}Br	(np)^{82}Se	8.8000e−01	5.0	0.0	0.0100	0.01	6.0e−04	0
	−1.1302e+02	1.3948e+00	−1.2322e+02	2.5317e+02	−1.6320e+01	9.7384e−01	−1.0584e+02	−1.1062e+02
^{82}Br	(nα)^{79}As	1.7870e+00	5.0	1.5	0.0100	0.01	4.6e−02	0
	−3.1230e+02	7.2231e−01	−1.2607e+02	4.5290e+02	−3.5531e+01	2.2376e+00	−1.4791e+02	−3.1262e+02
^{83}Br	(nγ)^{84}Br	6.8380e+00	1.5	2.0	0.0100	0.01	1.1e−04	
	1.8769e+01	−7.9436e−03	6.6071e−01	−3.7877e+00	8.1409e−01	−1.4762e−01	7.8103e−01	4.2234e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.97 0.94	0.89 0.64	0.34 0.15
^{84}Br	(nγ)^{85}Br	8.9040e+00	2.0	1.5	0.0100	0.01	1.0e−04	
	1.9083e+01	−3.7937e−02	3.2769e+00	−5.2564e+00	−3.4146e−02	−2.6123e−02	2.6311e+00	4.2994e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.98 0.97	0.81 0.64	0.50 0.30	0.17 0.09
^{84}Br	(nα)^{81}As	4.0400e−01	2.0	1.5	0.0100	0.01	2.2e−02	0
	−2.2505e+02	−1.8261e+01	1.1467e+02	1.1236e+02	−1.8183e+01	1.3465e+00	2.6929e+01	−2.2616e+02
^{85}Br	(nγ)^{86}Br	5.0990e+00	1.5	2.0	0.0100	0.01	3.8e−04	
	2.4892e+01	−5.6629e−02	5.8312e+00	−1.8464e+01	2.3544e+00	−2.7491e−01	5.9908e+00	4.8357e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.99 1.01	1.03 0.82	0.41 0.17
^{86}Br	(nγ)^{87}Br	6.2890e+00	2.0	1.5	0.0350	0.01	7.5e−05	0
	9.8114e+00	−1.5056e−03	−1.4076e+00	6.3134e+00	−5.7867e−01	−2.6130e−03	−2.2351e+00	3.3723e+01
^{87}Br	(nγ)^{88}Br	4.9460e+00	1.5	0.0	0.0100	0.01	5.4e−03	0
	3.0604e+01	−6.3070e−02	7.2973e+00	−2.6543e+01	3.5885e+00	−4.3164e−01	8.1430e+00	5.5679e+01
^{88}Br	(nγ)^{89}Br	5.9060e+00	0.0	1.5	0.0250	0.01	3.8e−04	0
	3.8011e+01	−2.3504e−02	6.9120e+00	−3.1279e+01	2.4573e+00	−2.0657e−01	9.8184e+00	6.0313e+01
^{89}Br	(nγ)^{90}Br	4.1180e+00	1.5	1.0	0.0200	0.01	1.9e−04	0
	2.5093e+01	−1.0019e−01	9.9270e+00	−2.2023e+01	1.5441e+00	−1.7285e−01	9.1254e+00	4.9070e+01
^{90}Br	(nγ)^{91}Br	5.0130e+00	1.0	0.5	0.0300	0.01	3.2e−04	0
	3.0132e+01	7.4078e−02	−2.7863e+00	−1.4674e+01	1.8114e+00	−1.8976e−01	1.3892e+00	5.4226e+01
^{91}Br	(nγ)^{92}Br	3.1430e+00	0.5	2.0	0.0200	0.01	2.3e−04	0
	3.5582e+01	2.8053e−02	2.4960e+00	−2.7864e+01	3.0578e+00	−2.9896e−01	6.6779e+00	5.8355e+01
^{92}Br	(nγ)^{93}Br	5.0670e+00	2.0	2.5	0.0650	0.01	2.7e−04	0
	3.1898e+01	1.3025e−03	3.0058e+00	−2.2115e+01	2.0943e+00	−2.0525e−01	5.5966e+00	5.5405e+01
^{93}Br	(nγ)^{94}Br	3.2860e+00	2.5	1.0	0.0100	0.01	2.2e−04	0
	2.8794e+01	−4.6491e−02	6.4503e+00	−2.4567e+01	2.3206e+00	−2.4268e−01	7.7106e+00	5.3177e+01
^{94}Br	(nγ)^{95}Br	4.7440e+00	1.0	0.5	0.0500	0.01	3.4e−04	0
	2.4655e+01	1.4261e−01	−9.5114e+00	−1.9072e+00	1.1218e+00	−1.6374e−01	−4.5487e+00	4.8750e+01
^{95}Br	(nγ)^{96}Br	2.8670e+00	0.5	2.0	0.0150	0.01	3.0e−04	0
	2.9670e+01	8.1622e−02	−3.4355e+00	−1.6063e+01	2.4747e+00	−2.7942e−01	1.1123e+00	5.2444e+01
^{96}Br	(nγ)^{97}Br	4.2850e+00	2.0	0.5	0.0800	0.01	2.7e−04	0
	2.7087e+01	5.5460e−02	−2.2106e+00	−1.3016e+01	1.6832e+00	−1.9408e−01	1.1122e+00	5.1693e+01
^{97}Br	(nγ)^{98}Br	2.1800e+00	0.5	3.0	0.0250	0.01	2.9e−04	0
	2.9543e+01	5.8547e−02	−1.8271e+00	−1.9339e+01	2.9251e+00	−3.2153e−01	2.2854e+00	5.1981e+01
^{98}Br	(nγ)^{99}Br	3.7030e+00	3.0	0.5	0.1700	0.01	2.4e−04	0
	2.7275e+01	1.7186e−02	7.2331e−01	−1.7504e+01	2.0299e+00	−2.2001e−01	3.2581e+00	5.2219e+01
^{99}Br	(nγ)^{100}Br	1.9890e+00	0.5	3.0	0.0350	0.01	5.1e−04	0
	2.4955e+01	8.7291e−02	−4.9307e+00	−1.1411e+01	2.2802e+00	−2.8138e−01	−7.7797e−01	4.7393e+01
^{100}Br	(nγ)^{101}Br	3.6750e+00	3.0	0.5	0.1900	0.01	2.8e−04	0
	2.5849e+01	4.1144e−02	−1.5041e+00	−1.3860e+01	1.8619e+00	−2.1458e−01	1.4001e+00	5.0793e+01
^{101}Br	(nγ)^{102}Br	1.8040e+00	0.5	2.0	0.0400	0.01	4.8e−04	0
	2.5226e+01	7.6911e−02	−4.0853e+00	−1.3512e+01	2.5592e+00	−3.0594e−01	−5.3701e−02	4.8001e+01
^{102}Br	(nγ)^{103}Br	3.2300e+00	2.0	0.5	0.2800	0.01	3.0e−04	0
	2.3532e+01	6.6420e−02	−3.7443e+00	−9.7137e+00	1.5791e+00	−1.9637e−01	−4.6936e−01	4.8140e+01
^{103}Br	(nγ)^{104}Br	1.3840e+00	0.5	4.0	0.0750	0.01	4.9e−04	0
	2.3953e+01	8.0221e−02	−4.3762e+00	−1.3430e+01	2.7229e+00	−3.2494e−01	−2.5317e−01	4.6140e+01
^{104}Br	(nγ)^{105}Br	2.7310e+00	4.0	0.5	0.5500	0.01	1.7e−04	0
	2.4344e+01	−1.7968e−02	3.2936e+00	−1.9024e+01	1.9499e+00	−2.1163e−01	4.8299e+00	4.9540e+01
^{105}Br	(nγ)^{106}Br	7.4700e−01	0.5	3.0	0.1700	0.01	7.1e−04	0
	1.9052e+01	1.0916e−01	−7.1962e+00	−8.4650e+00	2.8434e+00	−3.5966e−01	−2.7119e+00	4.1491e+01
^{106}Br	(nγ)^{107}Br	2.0450e+00	3.0	0.5	1.2300	0.01	2.0e−04	0
	2.3256e+01	−4.0675e−03	2.1499e+00	−1.8591e+01	2.1633e+00	−2.3533e−01	4.0825e+00	4.8200e+01
^{107}Br	(nγ)^{108}Br	4.5700e−01	0.5	4.0	n.c.	0.01	1.0e−03	0
	3.6345e+00	1.7587e−01	−1.4857e+01	1.4734e+01	9.6045e−01	−2.4342e−01	−1.0816e+01	2.5822e+01
^{108}Br	(nγ)^{109}Br	1.7770e+00	4.0	0.5	n.c.	0.01	2.1e−04	0
	2.1704e+01	−2.2405e−02	3.6167e+00	−2.0378e+01	2.3105e+00	−2.5101e−01	5.1382e+00	4.6900e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{110}Br	$(n\gamma)^{111}$Br	1.4540e+00	4.0	4.5	n.c.	0.01	3.4e−04	0
	1.5245e+01	1.2585e−01	−1.0396e+01	6.9548e−01	1.8521e+00	−2.6114e−01	−6.4682e+00	3.8832e+01
^{111}Br	$(n\gamma)^{112}$Br	1.8630e+00	4.5	2.0	n.c.	0.01	1.9e−04	0
	2.3489e+01	−2.1535e−02	3.6991e+00	−2.1750e+01	2.3756e+00	−2.5320e−01	5.4058e+00	4.7874e+01
^{112}Br	$(n\gamma)^{113}$Br	1.4850e+00	2.0	1.5	n.c.	0.01	1.9e−04	0
	1.2435e+01	−1.8072e−03	3.6028e−01	−6.0079e+00	9.3317e−01	−1.6189e−01	9.2684e−01	3.6351e+01
^{113}Br	$(n\gamma)^{114}$Br	1.6500e−01	1.5	1.0	n.c.	0.01	2.0e−04	0
	−1.7213e+01	3.1632e−02	−6.3162e+00	2.5720e+01	−1.4195e+00	−3.9928e−02	−8.3163e+00	6.7670e+00
^{114}Br	$(n\gamma)^{115}$Br	1.1850e+00	1.0	1.5	n.c.	0.01	1.7e−04	0
	2.3042e+01	2.2323e−02	4.7774e−01	−1.8380e+01	2.5534e+00	−2.7839e−01	3.2708e+00	4.6447e+01
^{115}Br	$(n\gamma)^{116}$Br	2.0670e+00	1.5	5.0	n.c.	0.01	4.7e−05	0
	2.2073e+01	6.7482e−02	−3.3004e+00	−1.1649e+01	1.7463e+00	−2.0641e−01	2.6074e−01	4.4754e+01
^{116}Br	$(n\gamma)^{117}$Br	1.1010e+00	5.0	0.5	n.c.	0.01	5.0e−05	0
	2.0889e+01	−3.7990e−02	5.7301e+00	−2.5740e+01	3.5075e+00	−3.6590e−01	7.3538e+00	4.6286e+01
^{77}Kr	$(np)^{77}$Br	3.8460e+00	2.5	1.5	0.0100	0.01	2.0e−04	
	3.4909e+01	−2.6844e−02	7.2821e+00	−2.4840e+01	2.3697e+00	−1.9659e−01	8.7656e+00	3.5315e+01
	1.00 1.00	1.00 1.00	0.99 0.98	0.97 0.96	0.95 0.94	0.89 0.87	0.88 0.90	0.83 0.58
^{77}Kr	$(n\alpha)^{74}$Se	7.6880e+00	2.5	0.0	0.0100	0.01	2.0e−04	0
	2.4357e+01	−9.6616e−02	6.6810e+00	−1.6757e+01	1.5126e+00	−8.6963e−02	6.5876e+00	2.4823e+01
^{78}Kr	$(n\gamma)^{79}$Kr	8.3550e+00	0.0	0.5	0.0100	0.01	2.3e−04	
	2.7160e+01	−2.2561e−02	3.6752e+00	−1.4713e+01	1.9542e+00	−2.2875e−01	4.6073e+00	5.0154e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.07 1.14	1.15 1.04	0.71 0.31
^{78}Kr	$(np)^{78}$Br	7.6000e−02	0.0	1.0	0.0100	0.01	1.7e−03	0
	5.6347e+01	1.4579e+00	−5.8737e+01	−4.9683e−01	2.2801e−01	−3.6753e−02	−4.2780e+00	5.5249e+01
^{78}Kr	$(n\alpha)^{75}$Se	3.6570e+00	0.0	2.5	0.0100	0.01	7.8e−03	
	−8.9375e+01	−4.3920e−01	−3.0490e+01	1.2816e+02	−6.5368e+00	2.1433e−01	−4.3340e+01	−9.2494e+01
	1.00 1.00	1.00 1.00	1.00 1.02	1.08 1.18	1.35 1.59	7.56 15.50	23.20 40.97	61.64 73.71
^{79}Kr	$(n\gamma)^{80}$Kr	1.1522e+01	0.5	0.0	0.0100	0.01	3.3e−05	
	3.8483e+01	−6.2030e−02	9.0974e+00	−3.1753e+01	3.0153e+00	−2.7995e−01	1.0718e+01	6.2863e+01
	1.00 1.01	1.01 1.01	1.00 0.98	0.97 0.95	0.94 0.92	0.88 0.86	0.84 0.73	0.48 0.23
^{79}Kr	$(np)^{79}$Br	2.4080e+00	0.5	1.5	0.0100	0.01	6.5e−04	0
	3.5792e+01	−2.1559e−02	6.6927e+00	−3.0146e+01	3.8624e+00	−3.3223e−01	8.8631e+00	3.5099e+01
^{79}Kr	$(n\alpha)^{76}$Se	6.4560e+00	0.5	0.0	0.0100	0.01	4.7e−04	
	3.7911e+01	−2.6467e−02	4.3672e+00	−3.3402e+01	4.5061e+00	−3.2780e−01	8.0831e+00	3.7276e+01
	1.00 1.00	0.96 0.87	0.76 0.66	0.59 0.53	0.49 0.47	0.42 0.51	0.74 1.59	2.94 4.63
^{80}Kr	$(n\gamma)^{81}$Kr	7.8720e+00	0.0	3.5	0.0100	0.01	3.7e−04	
	3.7652e+01	−1.0791e−01	1.2203e+01	−3.6115e+01	4.0569e+00	−4.1499e−01	1.2717e+01	5.9260e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.04 1.10	1.16 1.12	0.65 0.21
^{80}Kr	$(n\alpha)^{77}$Se	2.3530e+00	0.0	0.5	0.0100	0.01	5.1e−02	0
	−3.2225e+02	1.5448e+00	−1.8455e+02	5.2886e+02	−3.6369e+01	2.0372e+00	−1.9383e+02	−3.2427e+02
^{81}Kr	$(n\gamma)^{82}$Kr	1.0966e+01	3.5	0.0	0.0100	0.01	1.3e−04	
	2.3265e+01	4.3454e−03	5.7620e−01	−6.7037e+00	1.0761e+00	−1.6662e−01	1.4794e+00	4.9032e+01
	1.00 0.99	0.97 0.96	0.95 0.94	0.94 0.94	0.94 0.94	0.92 0.85	0.76 0.55	0.29 0.12
^{81}Kr	$(np)^{81}$Br	1.0630e+00	3.5	1.5	0.0100	0.01	4.6e−04	0
	−6.4639e+01	4.2874e−01	−4.4617e+01	1.2185e+02	−7.4855e+00	3.7403e−01	−4.4883e+01	−6.3946e+01
^{81}Kr	$(n\alpha)^{78}$Se	4.9780e+00	3.5	0.0	0.0100	0.01	1.6e−03	
	1.1735e+01	−1.8588e−02	−3.1134e−02	−9.1919e+00	3.5484e+00	−3.3230e−01	1.1383e+00	1.2484e+01
	1.00 0.97	0.93 0.91	0.91 0.94	0.97 1.02	1.08 1.13	1.86 3.09	5.05 10.63	17.64 30.26
^{82}Kr	$(n\gamma)^{83}$Kr	7.4640e+00	0.0	4.5	0.0100	0.01	8.0e−05	
	2.7671e+01	−4.3141e−02	5.1843e+00	−1.8482e+01	2.6694e+00	−3.1930e−01	5.8108e+00	4.9056e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.08	1.11 1.00	0.57 0.21
^{82}Kr	$(n\alpha)^{79}$Se	9.7600e−01	0.0	3.5	0.0100	0.01	6.0e−03	0
	1.5557e+02	−7.4894e+00	4.7467e+02	−6.7928e+02	3.2480e+01	−1.7250e+00	3.7260e+02	1.5216e+02
^{83}Kr	$(n\gamma)^{84}$Kr	1.0521e+01	4.5	0.0	0.0150	0.01	1.5e−04	
	2.4158e+01	−2.5204e−02	2.8146e+00	−1.0818e+01	1.4951e+00	−2.0343e−01	3.1652e+00	5.0148e+01
	0.99 0.98	0.97 0.98	0.98 0.98	0.99 0.99	0.99 0.99	0.96 0.89	0.80 0.54	0.27 0.11
^{83}Kr	$(n\alpha)^{80}$Se	3.4260e+00	4.5	0.0	0.0150	0.01	2.4e−02	0
	−3.9349e+01	4.3801e−01	−4.3439e+01	7.7618e+01	1.2020e+00	−4.4996e−01	−3.7395e+01	−3.8377e+01
^{84}Kr	$(n\gamma)^{85}$Kr	7.1200e+00	0.0	4.5	0.0100	0.01	1.9e−04	
	2.5437e+01	−3.0942e−02	3.8036e+00	−1.5424e+01	2.5546e+00	−3.2132e−01	4.4693e+00	4.6822e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.06	1.12 1.01	0.54 0.19

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{85}Kr	(nγ)^{86}Kr	9.8550e+00	4.5	0.0	0.0250	0.01	9.2e−04	
	5.9213e+00	9.6403e−02	−1.0107e+01	2.1659e+01	−9.8372e−01	−5.0127e−02	−9.4606e+00	3.1912e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.87 0.48	0.20 0.08
^{85}Kr	(nα)^{82}Se	1.7620e+00	4.5	0.0	0.0250	0.01	2.5e−02	0
	−3.0638e+02	4.8192e−01	−9.4542e+01	4.1081e+02	−3.3569e+01	2.1102e+00	−1.2407e+02	−3.0541e+02
^{86}Kr	(nγ)^{87}Kr	5.5160e+00	0.0	2.5	0.0100	0.01	6.2e−04	
	3.2695e+01	−9.2254e−02	1.0285e+01	−3.2628e+01	4.1330e+00	−4.4407e−01	1.0875e+01	5.4592e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.04 0.94	0.46 0.15
^{87}Kr	(nγ)^{88}Kr	7.0530e+00	2.5	0.0	0.1600	0.01	1.3e−03	
	1.2563e+01	4.2824e−02	−4.4859e+00	5.9811e+00	6.0626e−01	−1.8185e−01	−3.8480e+00	3.8044e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.92 0.56	0.22 0.08
^{87}Kr	(nα)^{84}Se	8.9000e−01	2.5	0.0	0.1600	0.01	7.5e−03	0
	8.2668e+01	−1.0291e+01	4.9266e+02	−6.2039e+02	2.5748e+01	−1.1705e+00	3.6188e+02	8.3126e+01
^{88}Kr	(nγ)^{89}Kr	5.1010e+00	0.0	1.5	0.0250	0.01	3.2e−04	0
	1.7475e+01	−1.8066e−02	1.5981e+00	−6.4396e+00	1.4868e+00	−2.4106e−01	1.6598e+00	3.9778e+01
^{89}Kr	(nγ)^{90}Kr	6.3130e+00	1.5	0.0	0.1550	0.01	7.5e−04	0
	1.3920e+01	8.1466e−04	−1.3947e+00	2.0089e−01	1.2276e+00	−2.3747e−01	−1.5426e+00	3.8995e+01
^{90}Kr	(nγ)^{91}Kr	4.4650e+00	0.0	2.5	0.0250	0.01	3.3e−04	0
	1.4834e+01	−3.3047e−02	2.6570e+00	−5.3491e+00	1.0992e+00	−2.1344e−01	2.1144e+00	3.6731e+01
^{91}Kr	(nγ)^{92}Kr	5.5460e+00	2.5	0.0	0.2000	0.01	1.6e−03	0
	3.0298e+00	7.4161e−02	−8.6110e+00	1.9405e+01	−6.4349e−01	−1.0724e−01	−8.4851e+00	2.8511e+01
^{92}Kr	(nγ)^{93}Kr	3.3460e+00	0.0	0.5	0.0450	0.01	1.3e−03	0
	6.2639e+00	3.5555e−02	−4.2623e+00	1.0612e+01	−1.2968e−01	−1.3790e−01	−4.3657e+00	2.9260e+01
^{93}Kr	(nγ)^{94}Kr	6.0510e+00	0.5	0.0	0.3400	0.01	4.0e−04	0
	3.9877e+01	−2.1893e−01	2.1904e+01	−5.0968e+01	3.7404e+00	−3.2052e−01	2.0476e+01	6.4260e+01
^{94}Kr	(nγ)^{95}Kr	3.4620e+00	0.0	1.5	0.0500	0.01	1.6e−03	0
	2.7850e+01	−1.9312e−01	1.8205e+01	−3.5617e+01	2.5043e+00	−2.5432e−01	1.5885e+01	5.0153e+01
^{95}Kr	(nγ)^{96}Kr	5.5280e+00	1.5	0.0	0.3300	0.01	2.9e−04	0
	3.7565e+01	−8.0174e−02	1.1126e+01	−3.7649e+01	3.3041e+00	−3.2059e−01	1.2819e+01	6.2641e+01
^{96}Kr	(nγ)^{97}Kr	3.0140e+00	0.0	1.5	0.0500	0.01	1.3e−03	0
	3.1432e+01	−1.9852e−01	1.9366e+01	−4.1788e+01	3.2143e+00	−3.1304e−01	1.7567e+01	5.3736e+01
^{97}Kr	(nγ)^{98}Kr	5.0070e+00	1.5	0.0	0.5750	0.01	3.2e−04	0
	3.4474e+01	−5.0333e−02	8.2900e+00	−3.2187e+01	2.9851e+00	−3.0611e−01	1.0344e+01	5.9551e+01
^{98}Kr	(nγ)^{99}Kr	2.3420e+00	0.0	2.5	0.1050	0.01	9.6e−04	0
	3.1673e+01	−1.5385e−01	1.6331e+01	−4.0526e+01	3.5115e+00	−3.5002e−01	1.5882e+01	5.3572e+01
^{99}Kr	(nγ)^{100}Kr	4.4700e+00	2.5	0.0	1.1500	0.01	2.8e−04	0
	3.1420e+01	−5.9838e−02	8.2435e+00	−3.0016e+01	2.8807e+00	−3.0540e−01	9.6940e+00	5.6902e+01
^{100}Kr	(nγ)^{101}Kr	2.0790e+00	0.0	2.5	0.1750	0.01	1.6e−03	0
	4.3762e+01	−2.7994e−01	2.8769e+01	−6.6816e+01	5.1992e+00	−4.5347e−01	2.7174e+01	6.5661e+01
^{101}Kr	(nγ)^{102}Kr	4.2830e+00	2.5	0.0	1.4400	0.01	3.1e−04	0
	3.1329e+01	−5.6679e−02	7.9789e+00	−3.0023e+01	2.9344e+00	−3.1330e−01	9.5305e+00	5.6812e+01
^{102}Kr	(nγ)^{103}Kr	1.9060e+00	0.0	0.5	0.2200	0.01	2.0e−03	0
	3.6064e+01	−2.4932e−01	2.4572e+01	−5.4755e+01	4.3412e+00	−4.0293e−01	2.2568e+01	5.9062e+01
^{103}Kr	(nγ)^{104}Kr	4.0650e+00	0.5	0.0	1.8050	0.01	3.9e−04	0
	3.2389e+01	4.5355e−02	3.5162e−01	−2.3323e+01	2.8710e+00	−3.1999e−01	4.5556e+00	5.6774e+01
^{104}Kr	(nγ)^{105}Kr	1.3480e+00	0.0	3.5	0.3850	0.01	2.4e−03	0
	3.4274e+01	−1.9645e−01	2.0809e+01	−5.0695e+01	4.3181e+00	−4.0712e−01	2.0135e+01	5.5886e+01
^{105}Kr	(nγ)^{106}Kr	3.4250e+00	3.5	0.0	2.8900	0.01	2.9e−04	0
	2.6194e+01	−5.2492e−02	6.7390e+00	−2.5121e+01	2.6559e+00	−3.0304e−01	7.8377e+00	5.1965e+01
^{106}Kr	(nγ)^{107}Kr	8.6000e−01	0.0	2.5	0.8100	0.01	1.5e−03	0
	3.0576e+01	−1.4464e−01	1.5858e+01	−4.4003e+01	4.3939e+00	−4.3820e−01	1.6081e+01	5.2476e+01
^{107}Kr	(nγ)^{108}Kr	2.4910e+00	2.5	0.0	4.1800	0.01	5.6e−04	0
	1.9594e+01	−1.7546e−02	2.9634e+00	−1.5828e+01	2.1093e+00	−2.8201e−01	4.1404e+00	4.5077e+01
^{108}Kr	(nγ)^{109}Kr	5.5900e−01	0.0	4.5	1.6300	0.01	3.1e−03	0
	−1.2347e+01	1.1019e−01	−1.1552e+01	2.9441e+01	−1.5677e+00	−4.8750e−02	−1.1268e+01	9.0422e+00
^{109}Kr	(nγ)^{110}Kr	1.3340e+00	4.5	0.0	5.1900	0.01	4.3e−03	0
	−5.9219e+00	1.2327e−01	−1.2632e+01	2.3175e+01	1.5013e−01	−2.3872e−01	−1.1356e+01	2.0073e+01
^{110}Kr	(nγ)^{111}Kr	7.6000e−02	0.0	0.5	n.c.	0.01	1.9e−03	0
	1.1518e+01	−2.5974e−01	2.3511e+01	−3.6635e+01	2.7135e+00	−3.2785e−01	1.9113e+01	3.4517e+01
^{111}Kr	(nγ)^{112}Kr	2.1180e+00	0.5	0.0	n.c.	0.01	8.1e−04	0
	2.6874e+01	4.9057e−02	−1.2327e+00	−1.9335e+01	3.0033e+00	−3.6137e−01	2.5513e+00	5.1260e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{112}Kr	$(n\gamma)^{113}$Kr	2.1690e+00	0.0	1.5	n.c.	0.01	1.7e−03	0
	3.4710e+01	−7.6626e−02	1.0733e+01	−3.9698e+01	3.6279e+00	−3.6801e−01	1.2741e+01	5.7017e+01
^{113}Kr	$(n\gamma)^{114}$Kr	2.1720e+00	1.5	0.0	n.c.	0.01	5.9e−03	0
	−1.0459e+01	1.3994e−01	−1.5629e+01	3.3974e+01	−1.0846e+00	−1.4076e−01	−1.5065e+01	1.4620e+01
^{114}Kr	$(n\gamma)^{115}$Kr	2.7200e−01	0.0	0.5	n.c.	0.01	2.0e−03	0
	−3.8350e+01	2.1555e−01	−2.5851e+01	7.0140e+01	−4.0268e+00	5.1776e−02	−2.6942e+01	−1.5350e+01
^{115}Kr	$(n\gamma)^{116}$Kr	2.1670e+00	0.5	0.0	n.c.	0.01	2.5e−04	0
	5.0430e+00	−6.0603e−02	3.4509e+00	−1.8344e−01	−9.5829e−02	−9.3644e−02	1.3868e+00	2.9429e+01
^{116}Kr	$(n\gamma)^{117}$Kr	1.5280e+00	0.0	5.5	n.c.	0.01	2.7e−03	0
	−2.9627e+01	−7.9965e−02	5.3617e−01	4.0364e+01	−5.1685e+00	2.9939e−01	−6.6790e+00	−8.4191e+00
^{117}Kr	$(n\gamma)^{118}$Kr	1.8850e+00	5.5	0.0	n.c.	0.01	1.3e−02	0
	6.5916e+01	−5.6403e−01	5.8971e+01	−1.3333e+02	1.1167e+01	−9.3052e−01	5.5596e+01	9.2094e+01
^{79}Rb	$(np)^{79}$Kr	4.4320e+00	2.5	0.5	0.0100	0.01	2.1e−04	
	3.1468e+01	1.5028e−02	3.3817e+00	−1.6623e+01	1.7487e+00	−1.5363e−01	5.3226e+00	3.2567e+01
	1.00 1.01	1.00 0.98	0.96 0.95	0.93 0.92	0.91 0.90	0.87 0.86	0.86 0.86	0.80 0.58
^{79}Rb	$(n\alpha)^{76}$Br	5.1430e+00	2.5	1.0	0.0100	0.01	9.3e−04	0
	4.7643e+01	−2.6302e−01	2.3126e+01	−7.0149e+01	8.6084e+00	−6.9789e−01	2.4513e+01	4.7008e+01
^{80}Rb	$(np)^{80}$Kr	6.5060e+00	1.0	0.0	0.0100	0.01	2.7e−04	
	3.5092e+01	−4.7346e−02	9.2397e+00	−2.6161e+01	1.8511e+00	−1.2657e−01	1.0237e+01	3.6190e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.98	0.97 0.96	0.80 0.72	0.68 0.63	0.59 0.47
^{80}Rb	$(n\alpha)^{77}$Br	6.7110e+00	1.0	1.5	0.0100	0.01	8.8e−05	0
	1.1946e+01	−1.0765e−01	3.2803e+00	−6.9331e−01	−2.0396e−02	2.9436e−02	2.0041e+00	1.0329e+01
^{81}Rb	$(np)^{81}$Kr	3.0200e+00	1.5	3.5	0.0100	0.01	3.0e−05	
	3.7155e+01	−4.6855e−02	9.6313e+00	−3.2466e+01	3.2504e+00	−2.5930e−01	1.1313e+01	3.6462e+01
	1.00 1.01	1.04 1.05	1.06 1.06	1.05 1.04	1.03 1.03	1.03 1.12	1.20 1.33	1.30 1.00
^{81}Rb	$(n\alpha)^{78}$Br	3.6430e+00	1.5	1.0	0.0100	0.01	1.8e−02	0
	−3.9961e+01	4.3131e−01	−4.6058e+01	8.5384e+01	6.3706e−01	−4.2620e−01	−4.0519e+01	−4.1003e+01
^{82}Rb	$(np)^{82}$Kr	5.1840e+00	1.0	0.0	0.0100	0.01	5.4e−04	
	3.9252e+00	1.8342e−01	−1.5829e+01	3.1953e+01	−2.2538e+00	1.4096e−01	−1.3943e+01	5.0238e+00
	1.00 0.94	0.83 0.72	0.64 0.59	0.56 0.53	0.51 0.49	0.41 0.37	0.33 0.29	0.28 0.24
^{82}Rb	$(n\alpha)^{79}$Br	5.5280e+00	1.0	1.5	0.0100	0.01	1.9e−04	0
	2.5186e+01	−1.1389e−01	7.6058e+00	−2.7329e+01	4.0955e+00	−3.1714e−01	8.6633e+00	2.3568e+01
^{83}Rb	$(n\gamma)^{84}$Rb	8.7490e+00	2.5	2.0	0.0100	0.01	1.4e−04	
	2.2300e+01	2.6306e−02	−1.2365e+00	−3.5321e+00	9.2491e−01	−1.6571e−01	3.7773e−02	4.6170e+01
	0.98 0.99	0.99 0.99	0.99 0.99	1.00 1.00	1.01 1.01	1.02 0.99	0.93 0.64	0.31 0.12
^{83}Rb	$(np)^{83}$Kr	1.6920e+00	2.5	4.5	0.0100	0.01	7.5e−05	0
	1.6089e+01	1.5320e−01	−8.9513e+00	2.3544e+00	2.3205e+00	−2.8222e−01	−4.6431e+00	1.5579e+01
^{83}Rb	$(n\alpha)^{80}$Br	2.4640e+00	2.5	1.0	0.0100	0.01	2.8e−02	0
	−3.0222e+02	1.6477e+00	−1.9129e+02	5.1034e+02	−3.2621e+01	1.7060e+00	−1.9411e+02	−3.0286e+02
^{84}Rb	$(n\gamma)^{85}$Rb	1.0488e+01	2.0	2.5	0.0100	0.01	5.9e−05	
	1.8757e+01	1.0099e−02	−2.2455e−01	9.6888e−01	−4.1054e−01	−1.4327e−02	6.7300e−02	4.2263e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.98	0.88 0.72	0.57 0.33	0.17 0.08
^{84}Rb	$(np)^{84}$Kr	3.4640e+00	2.0	0.0	0.0100	0.01	2.3e−03	0
	3.7907e+01	−1.1823e−01	1.6198e+01	−4.0135e+01	2.3109e+00	−9.6625e−02	1.6496e+01	3.9516e+01
^{84}Rb	$(n\alpha)^{81}$Br	3.8720e+00	2.0	1.5	0.0100	0.01	8.2e−03	0
	−4.0034e+01	3.3120e−01	−3.8101e+01	7.9587e+01	−1.2462e+00	−1.3774e−01	−3.4995e+01	−4.1143e+01
^{85}Rb	$(n\gamma)^{86}$Rb	8.6510e+00	2.5	2.0	0.0100	0.01	3.8e−04	
	1.9606e+01	4.7808e−02	−3.3309e+00	1.2185e+00	4.9412e−01	−1.3131e−01	−1.8861e+00	4.3477e+01
	1.00 1.00	1.00 1.00	0.99 0.98	0.97 0.96	0.95 0.94	0.86 0.82	0.74 0.48	0.23 0.10
^{85}Rb	$(np)^{85}$Kr	9.5000e−02	2.5	4.5	0.0100	0.01	5.1e−04	0
	7.1987e+01	1.1921e+00	−3.5690e+01	−4.4286e+01	3.0199e+00	−1.7179e−01	1.4262e+01	7.1476e+01
^{85}Rb	$(n\alpha)^{82}$Br	9.7700e−01	2.5	5.0	0.0100	0.01	2.9e−03	0
	9.1505e+01	−7.3483e+00	4.0856e+02	−5.4402e+02	2.4026e+01	−1.2121e+00	3.1293e+02	8.9566e+01
^{86}Rb	$(n\gamma)^{87}$Rb	9.9200e+00	2.0	1.5	0.0100	0.01	7.0e−05	
	1.0132e+01	6.0344e−02	−6.0228e+00	1.5234e+01	−1.3754e+00	4.2562e−02	−5.7392e+00	3.4044e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.94 0.78	0.61 0.34	0.17 0.08
^{86}Rb	$(np)^{86}$Kr	1.3000e+00	2.0	0.0	0.0100	0.01	1.9e−03	0
	−5.1379e+01	3.8214e−01	−3.8707e+01	1.0433e+02	−8.0641e+00	5.9682e−01	−3.8431e+01	−4.9770e+01
^{86}Rb	$(n\alpha)^{83}$Br	1.9110e+00	2.0	1.5	0.0100	0.01	6.1e−02	0
	−3.5100e+02	1.0359e+00	−1.5032e+02	5.1932e+02	−4.0438e+01	2.5523e+00	−1.7354e+02	−3.5211e+02
^{87}Rb	$(n\gamma)^{88}$Rb	6.0800e+00	1.5	2.0	0.0100	0.01	2.8e−04	

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	2.1265e+01	−1.6978e−02	1.8053e+00	−8.7815e+00	1.5927e+00	−2.2611e−01	2.1737e+00	4.4731e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 1.02	1.03 0.80	0.40 0.16
^{88}Rb	$(n\gamma)^{89}$Rb	7.1730e+00	2.0	1.5	0.0150	0.01	3.2e−05	
	1.7734e+01	−1.0356e−02	3.9578e−01	−2.1614e+00	3.5060e−01	−8.7191e−02	2.4455e−01	4.1645e+01
	0.99 0.96	0.96 0.97	0.98 0.99	1.00 1.00	1.01 1.02	0.99 0.94	0.84 0.58	0.32 0.16
^{88}Rb	$(n\alpha)^{85}$Br	1.6530e+00	2.0	1.5	0.0150	0.01	1.1e−01	0
	−3.3738e+02	4.3433e−01	−9.4750e+01	4.4457e+02	−3.8148e+01	2.5251e+00	−1.3054e+02	−3.3849e+02
^{89}Rb	$(n\gamma)^{90}$Rb	5.7190e+00	1.5	0.0	0.0100	0.01	5.7e−05	
	1.5386e+01	−3.2610e−02	2.2359e+00	−1.4934e+00	−9.7704e−02	−5.7257e−02	1.3078e+00	4.0461e+01
	1.03 1.06	1.12 1.18	1.25 1.31	1.36 1.41	1.44 1.48	1.53 1.36	1.12 0.60	0.26 0.10
^{90}Rb	$(n\gamma)^{91}$Rb	6.5080e+00	0.0	1.5	0.0100	0.01	8.2e−05	0
	1.2923e+01	5.9741e−02	−5.6027e+00	9.4892e+00	−5.8011e−01	−3.0395e−02	−4.7249e+00	3.5226e+01
^{91}Rb	$(n\gamma)^{92}$Rb	5.0980e+00	1.5	0.0	0.0100	0.01	1.1e−04	0
	3.8663e+00	7.5243e−02	−8.8213e+00	2.1396e+01	−1.4012e+00	8.4159e−04	−8.8496e+00	2.8942e+01
^{92}Rb	$(n\gamma)^{93}$Rb	5.9590e+00	0.0	2.5	0.0100	0.01	3.5e−04	0
	2.0088e+01	−7.0863e−02	6.0563e+00	−1.0452e+01	1.4908e−01	−3.9946e−02	4.9047e+00	4.1986e+01
^{93}Rb	$(n\gamma)^{94}$Rb	3.9000e+00	2.5	0.0	0.0150	0.01	2.9e−04	0
	2.4203e+01	−1.1450e−01	1.0355e+01	−2.1852e+01	1.5424e+00	−1.7170e−01	9.0202e+00	4.9685e+01
^{94}Rb	$(n\gamma)^{95}$Rb	5.4040e+00	0.0	2.5	0.0150	0.01	2.0e−04	0
	4.0732e+00	3.7965e−01	−3.2776e+01	4.5779e+01	−2.0274e+00	3.1589e−02	−2.5440e+01	2.5971e+01
^{95}Rb	$(n\gamma)^{96}$Rb	3.4350e+00	2.5	2.0	0.0100	0.01	2.0e−04	0
	3.2846e+01	−6.2860e−02	8.4087e+00	−3.0786e+01	2.9285e+00	−2.9152e−01	9.8358e+00	5.6719e+01
^{96}Rb	$(n\gamma)^{97}$Rb	5.2200e+00	2.0	1.5	0.0400	0.01	3.5e−04	0
	3.1573e+01	2.0466e−02	1.3970e+00	−1.9871e+01	2.0413e+00	−2.1365e−01	4.3666e+00	5.5486e+01
^{97}Rb	$(n\gamma)^{98}$Rb	3.9620e+00	1.5	2.0	0.0100	0.01	3.2e−04	0
	3.8460e+01	−5.4192e−02	9.0475e+00	−3.6336e+01	3.4060e+00	−3.2637e−01	1.1442e+01	6.1927e+01
^{98}Rb	$(n\gamma)^{99}$Rb	4.7320e+00	2.0	2.5	0.0200	0.01	3.5e−04	0
	3.0241e+01	2.8020e−02	6.5245e−01	−1.8399e+01	1.9659e+00	−2.1185e−01	3.7018e+00	5.3749e+01
^{99}Rb	$(n\gamma)^{100}$Rb	3.1110e+00	2.5	3.0	0.0150	0.01	2.7e−04	0
	3.3330e+01	−5.7843e−02	8.2010e+00	−3.1726e+01	3.1282e+00	−3.1442e−01	9.9009e+00	5.6866e+01
^{100}Rb	$(n\gamma)^{101}$Rb	4.5580e+00	3.0	1.5	0.0500	0.01	2.9e−04	0
	3.0202e+01	4.7413e−03	2.3097e+00	−2.0495e+01	2.1154e+00	−2.2402e−01	4.8044e+00	5.4452e+01
^{101}Rb	$(n\gamma)^{102}$Rb	2.7970e+00	1.5	1.0	0.0150	0.01	4.0e−04	0
	3.1143e+01	5.2415e−03	2.9898e+00	−2.4387e+01	2.7726e+00	−2.9884e−01	5.9560e+00	5.5121e+01
^{102}Rb	$(n\gamma)^{103}$Rb	4.3290e+00	1.0	1.5	0.0650	0.01	3.8e−04	0
	2.0147e+01	1.9434e−01	−1.4564e+01	7.3830e+00	6.9122e−01	−1.5430e−01	−8.9725e+00	4.3551e+01
^{103}Rb	$(n\gamma)^{104}$Rb	2.5100e+00	1.5	1.0	0.0150	0.01	4.4e−04	0
	3.0020e+01	1.8132e−02	1.8196e+00	−2.2548e+01	2.7284e+00	−3.0191e−01	4.9994e+00	5.3999e+01
^{104}Rb	$(n\gamma)^{105}$Rb	4.1640e+00	1.0	1.5	0.0900	0.01	2.8e−04	0
	1.6370e+01	2.1663e−01	−1.7359e+01	1.3831e+01	3.1636e−01	−1.3336e−01	−1.1801e+01	3.9773e+01
^{105}Rb	$(n\gamma)^{106}$Rb	2.1600e+00	1.5	2.0	0.0250	0.01	3.5e−04	0
	3.1486e+01	−1.3891e−02	4.5235e+00	−2.8661e+01	3.3630e+00	−3.5021e−01	7.3056e+00	5.4955e+01
^{106}Rb	$(n\gamma)^{107}$Rb	3.3260e+00	2.0	1.5	0.2200	0.01	2.8e−04	0
	2.5444e+01	4.5581e−02	−1.4125e+00	−1.3589e+01	1.7083e+00	−2.0387e−01	1.6501e+00	4.9359e+01
^{107}Rb	$(n\gamma)^{108}$Rb	1.7260e+00	1.5	1.0	0.0600	0.01	4.8e−04	0
	2.6443e+01	−4.5776e−03	2.8964e+00	−2.3109e+01	2.9555e+00	−3.2563e−01	5.3271e+00	5.0422e+01
^{108}Rb	$(n\gamma)^{109}$Rb	2.6180e+00	1.0	1.5	0.4850	0.01	3.2e−04	0
	2.1616e+01	7.8955e−02	−4.6117e+00	−7.6522e+00	1.3888e+00	−1.9002e−01	−1.1307e+00	4.5021e+01
^{109}Rb	$(n\gamma)^{110}$Rb	8.5000e−01	1.5	5.0	0.2200	0.01	8.6e−04	0
	1.9537e+01	2.8180e−02	−3.7876e−01	−1.5741e+01	2.8264e+00	−3.5074e−01	2.2785e+00	4.2217e+01
^{110}Rb	$(n\gamma)^{111}$Rb	1.5220e+00	5.0	3.5	1.3350	0.01	1.6e−04	0
	9.8119e+00	2.6951e−03	−6.3677e−01	−1.8747e+00	4.9765e−01	−1.2755e−01	−4.0389e−01	3.3823e+01
^{111}Rb	$(n\gamma)^{112}$Rb	6.3500e−01	3.5	4.0	0.4650	0.01	1.1e−03	0
	5.2322e+00	7.4104e−02	−7.0047e+00	8.2753e+00	5.6270e−01	−1.8978e−01	−5.5977e+00	2.8807e+01
^{112}Rb	$(n\gamma)^{113}$Rb	3.8170e+00	4.0	0.5	0.3550	0.01	1.8e−04	0
	2.3900e+00	2.6203e−01	−2.4701e+01	3.2274e+01	−5.1443e−01	−1.0079e−01	−1.9909e+01	2.7587e+01
^{113}Rb	$(n\gamma)^{114}$Rb	1.2240e+00	0.5	1.0	n.c.	0.01	8.0e−04	0
	−2.4460e+01	1.6220e−01	−1.9353e+01	5.5928e+01	−4.3782e+00	1.7522e−01	−2.0451e+01	−1.1726e+00
^{114}Rb	$(n\gamma)^{115}$Rb	2.3790e+00	1.0	0.5	n.c.	0.01	1.3e−04	0
	2.5325e+01	4.2250e−02	−1.1233e+00	−1.6437e+01	2.1369e+00	−2.3648e−01	2.1250e+00	4.9423e+01
^{115}Rb	$(n\gamma)^{116}$Rb	8.6400e−01	0.5	1.0	n.c.	0.01	6.2e−04	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.2881e+01	7.2949e−02	−5.2077e+00	−2.2585e+00	1.4068e+00	−2.3028e−01	−2.5920e+00	3.6168e+01
^{116}Rb	$(n\gamma)^{117}$Rb	2.2950e+00	1.0	0.5	n.c.	0.01	1.1e−04	0
	2.6367e+01	4.4532e−02	−1.0361e+00	−1.7456e+01	2.3074e+00	−2.4980e−01	2.4125e+00	5.0466e+01
^{117}Rb	$(n\gamma)^{118}$Rb	2.1150e+00	0.5	6.0	n.c.	0.01	1.1e−04	0
	2.3209e+01	8.4519e−02	−4.2411e+00	−1.1035e+01	1.7854e+00	−2.1928e−01	−1.5843e−01	4.5030e+01
^{118}Rb	$(n\gamma)^{119}$Rb	2.0900e+00	6.0	1.5	n.c.	0.01	6.4e−05	0
	1.3074e+01	−5.7478e−03	1.1263e+00	−8.1762e+00	1.3286e+00	−1.9129e−01	1.8214e+00	3.7946e+01
^{120}Rb	$(n\gamma)^{121}$Rb	4.0000e−03	3.0	0.5	n.c.	0.01	1.4e−05	0
	4.2661e+00	6.5898e−02	1.3038e+00	−9.4241e+00	1.1695e+00	−1.8082e−01	4.9579e+00	2.9212e+01
^{81}Sr	$(np)^{81}$Rb	4.7140e+00	0.5	1.5	0.0100	0.01	7.8e−05	
	2.6200e+01	3.4985e−02	5.8032e−01	−8.1583e+00	1.0811e+00	−1.0182e−01	2.1850e+00	2.5507e+01
	1.00 1.00	0.99 0.97	0.94 0.92	0.91 0.90	0.89 0.89	0.88 0.90	0.92 0.95	0.89 0.72
^{81}Sr	$(n\alpha)^{78}$Kr	8.2810e+00	0.5	0.0	0.0100	0.01	6.6e−05	0
	1.5275e+01	−2.8247e−02	−1.5060e+00	1.3059e+00	4.5727e−01	−4.8581e−02	−1.1188e+00	1.4638e+01
^{82}Sr	$(np)^{82}$Rb	9.6200e−01	0.0	1.0	0.0100	0.01	1.9e−02	
	−1.1873e+02	4.7526e−01	−5.9724e+01	1.9742e+02	−1.3884e+01	7.3026e−01	−6.7251e+01	−1.1983e+02
	1.00 1.00	1.00 1.00	1.00 1.02	1.08 1.19	1.36 1.57	4.83 8.14	10.54 14.81	13.36 6.00
^{82}Sr	$(n\alpha)^{79}$Kr	4.0820e+00	0.0	0.5	0.0100	0.01	8.6e−03	0
	−7.4878e+01	5.9682e−01	−6.5505e+01	1.4766e+02	−5.4335e+00	3.4906e−02	−6.1961e+01	−7.6901e+01
^{83}Sr	$(np)^{83}$Rb	3.0580e+00	3.5	2.5	0.0100	0.01	2.6e−05	
	1.5041e+01	1.0131e−01	−6.5744e+00	8.2932e+00	1.8869e−01	−4.6755e−02	−4.6874e+00	1.5329e+01
	1.01 0.99	0.96 0.93	0.91 0.89	0.88 0.86	0.86 0.85	0.87 0.95	1.06 1.26	1.37 1.40
^{83}Sr	$(n\alpha)^{80}$Kr	6.7440e+00	3.5	0.0	0.0100	0.01	1.8e−04	0
	7.7325e+00	1.2373e−02	−4.2988e+00	6.8290e+00	7.4207e−01	−6.9666e−02	−3.7210e+00	8.4809e+00
^{84}Sr	$(n\gamma)^{85}$Sr	8.5290e+00	0.0	4.5	0.0100	0.01	2.1e−04	
	4.1667e+01	−7.7378e−02	1.0435e+01	−3.8487e+01	4.7527e+00	−4.8846e−01	1.2223e+01	6.3053e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.09	1.16 1.12	0.62 0.20
^{84}Sr	$(n\alpha)^{81}$Kr	2.6970e+00	0.0	3.5	0.0100	0.01	4.2e−02	0
	−3.1041e+02	1.5273e+00	−1.8321e+02	5.1463e+02	−3.4997e+01	1.9703e+00	−1.9052e+02	−3.1382e+02
^{85}Sr	$(n\gamma)^{86}$Sr	1.1491e+01	4.5	0.0	0.0100	0.01	1.9e−04	
	2.3673e+01	1.8484e−02	−2.3614e−01	−5.8318e+00	1.1148e+00	−1.8398e−01	1.0528e+00	4.9664e+01
	1.00 1.00	1.00 1.00	0.99 0.99	1.00 0.99	0.98 0.98	0.94 0.89	0.79 0.51	0.23 0.09
^{85}Sr	$(np)^{85}$Rb	1.8470e+00	4.5	2.5	0.0100	0.01	9.5e−04	0
	2.0109e+01	3.3171e−02	1.4281e+00	−1.3288e+01	3.3488e+00	−3.6800e−01	3.5399e+00	2.0620e+01
^{85}Sr	$(n\alpha)^{82}$Kr	5.1350e+00	4.5	0.0	0.0100	0.01	5.7e−04	
	2.3110e+01	−1.4233e−01	1.1668e+01	−3.5415e+01	5.7111e+00	−4.8788e−01	1.2058e+01	2.4080e+01
	1.00 1.00	1.00 1.01	1.03 1.09	1.17 1.27	1.38 1.52	3.08 5.37	9.52 25.77	57.75 81.50
^{86}Sr	$(n\gamma)^{87}$Sr	8.4280e+00	0.0	4.5	0.0100	0.01	4.6e−04	
	3.1767e+01	−3.9189e−02	5.5435e+00	−2.3070e+01	3.4208e+00	−3.9638e−01	6.8176e+00	5.3153e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.05	1.11 1.02	0.51 0.18
^{86}Sr	$(n\alpha)^{83}$Kr	1.1080e+00	0.0	4.5	0.0100	0.01	3.3e−02	0
	−5.1340e+01	−4.6550e+00	2.4225e+02	−2.1537e+02	1.6967e+00	1.8768e−01	1.7031e+02	−5.4975e+01
^{87}Sr	$(n\gamma)^{88}$Sr	1.1113e+01	4.5	0.0	0.0100	0.01	1.4e−03	
	1.2742e+01	9.7083e−02	−8.6993e+00	1.3649e+01	−4.5317e−02	−1.3388e−01	−7.0847e+00	3.8733e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.98	0.92 0.53	0.20 0.07
^{87}Sr	$(np)^{87}$Rb	4.9900e−01	4.5	1.5	0.0100	0.01	2.0e−02	0
	4.3727e+01	−1.3001e+00	1.2306e+02	−1.7416e+02	7.5960e+00	−3.6944e−01	1.0031e+02	4.4643e+01
^{87}Sr	$(n\alpha)^{84}$Kr	3.2000e+00	4.5	0.0	0.0100	0.01	7.1e−03	0
	−1.4179e+02	8.6359e−01	−9.7999e+01	2.4190e+02	−1.1988e+01	4.2988e−01	−9.6269e+01	−1.4082e+02
^{88}Sr	$(n\gamma)^{89}$Sr	6.3590e+00	0.0	2.5	0.0100	0.01	1.3e−03	
	4.2823e+01	−1.5847e−01	1.7227e+01	−5.0475e+01	5.7680e+00	−5.6835e−01	1.7658e+01	6.4720e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.04 1.06	0.53 0.16
^{89}Sr	$(n\gamma)^{90}$Sr	7.8080e+00	2.5	0.0	0.0700	0.01	2.1e−03	
	2.3866e+01	−7.4875e−03	1.3860e+00	−1.1894e+01	2.4941e+00	−3.4751e−01	2.3896e+00	4.9347e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.71	0.24 0.07
^{89}Sr	$(n\alpha)^{86}$Kr	2.7040e+00	2.5	0.0	0.0700	0.01	2.0e−02	0
	−2.5019e+02	1.5787e+00	−1.7165e+02	4.3258e+02	−2.5986e+01	1.2959e+00	−1.6965e+02	−2.4973e+02
^{90}Sr	$(n\gamma)^{91}$Sr	5.7800e+00	0.0	2.5	0.0100	0.01	6.8e−04	
	1.6429e+01	5.2403e−03	−6.6962e−01	−2.0499e+00	1.4209e+00	−2.6027e−01	−3.5146e−01	3.8327e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.05	1.09 0.86	0.36 0.11
^{90}Sr	$(n\alpha)^{87}$Kr	4.1200e−01	0.0	2.5	0.0100	0.01	2.1e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−2.3522e+02	−1.9416e+01	1.1640e+02	1.1957e+02	−1.8070e+01	1.2603e+00	2.6055e+01	−2.3835e+02
^{91}Sr	$(n\gamma)^{92}$Sr	7.3420e+00	2.5	0.0	0.0550	0.01	9.7e−04	
	1.3141e+01	7.2784e−02	−7.0104e+00	8.7034e+00	6.3583e−01	−1.9926e−01	−5.7016e+00	3.8623e+01
	1.00 1.00	0.99 0.97	0.95 0.94	0.92 0.91	0.90 0.89	0.88 0.92	0.92 0.62	0.25 0.08
^{91}Sr	$(n\alpha)^{88}$Kr	1.6850e+00	2.5	0.0	0.0550	0.01	9.4e−02	0
	−3.3497e+02	4.1261e−01	−9.2478e+01	4.3664e+02	−3.6594e+01	2.3492e+00	−1.2795e+02	−3.3452e+02
^{92}Sr	$(n\gamma)^{93}$Sr	5.3140e+00	0.0	2.5	0.0100	0.01	2.2e−03	0
	9.0376e+00	3.5642e−02	−4.4711e+00	9.7456e+00	4.3743e−01	−2.1425e−01	−4.5113e+00	3.0935e+01
^{93}Sr	$(n\gamma)^{94}$Sr	6.7470e+00	2.5	0.0	0.0550	0.01	7.2e−04	0
	−6.5868e−01	9.7643e−02	−1.1456e+01	2.8470e+01	−1.5918e+00	−3.1680e−02	−1.1581e+01	2.4823e+01
^{94}Sr	$(n\gamma)^{95}$Sr	4.3930e+00	0.0	0.5	0.0100	0.01	3.7e−03	0
	4.1268e+00	7.7814e−02	−8.6208e+00	1.8415e+01	−3.0982e−01	−1.6070e−01	−8.2611e+00	2.7124e+01
^{95}Sr	$(n\gamma)^{96}$Sr	5.8960e+00	0.5	0.0	0.1450	0.01	5.5e−04	0
	−4.0238e−01	5.1578e−02	−7.4044e+00	2.3781e+01	−1.8915e+00	2.5866e−02	−8.4831e+00	2.3981e+01
^{96}Sr	$(n\gamma)^{97}$Sr	3.8830e+00	0.0	0.5	0.0500	0.01	9.9e−04	0
	−2.6300e+00	7.7095e−02	−9.3719e+00	2.6470e+01	−1.6721e+00	−2.3309e−02	−9.9158e+00	2.0367e+01
^{97}Sr	$(n\gamma)^{98}$Sr	5.8860e+00	0.5	0.0	0.2500	0.01	3.7e−04	0
	3.0431e+01	−8.3713e−02	9.1659e+00	−2.8437e+01	2.8863e+00	−3.1676e−01	9.5892e+00	5.4815e+01
^{98}Sr	$(n\gamma)^{99}$Sr	3.6350e+00	0.0	1.5	0.0400	0.01	7.3e−04	0
	5.9108e+01	−2.4496e−01	2.7783e+01	−8.1508e+01	8.1011e+00	−7.3101e−01	2.8937e+01	8.1413e+01
^{99}Sr	$(n\gamma)^{100}$Sr	6.1180e+00	1.5	0.0	0.1950	0.01	5.8e−05	0
	1.7714e+01	−5.8375e−03	3.7768e−01	−4.8674e+00	8.0790e−01	−1.6014e−01	6.7387e−01	4.2791e+01
^{100}Sr	$(n\gamma)^{101}$Sr	3.2590e+00	0.0	2.5	0.0350	0.01	3.1e−04	0
	4.6018e+01	−1.6092e−01	1.8888e+01	−5.8519e+01	5.9647e+00	−5.5523e−01	2.0207e+01	6.7917e+01
^{101}Sr	$(n\gamma)^{102}$Sr	5.7410e+00	2.5	0.0	0.4000	0.01	2.3e−04	0
	1.7806e+01	−9.0304e−03	6.7992e−01	−5.8266e+00	1.1488e+00	−2.0973e−01	9.6406e−01	4.3289e+01
^{102}Sr	$(n\gamma)^{103}$Sr	2.8970e+00	0.0	2.5	0.0300	0.01	2.1e−03	0
	5.2203e+01	−3.7270e−01	3.7511e+01	−8.3118e+01	6.0863e+00	−4.9999e−01	3.4724e+01	7.4102e+01
^{103}Sr	$(n\gamma)^{104}$Sr	5.0050e+00	2.5	0.0	0.5950	0.01	4.0e−04	0
	3.4232e+01	−9.1985e−02	1.1260e+01	−3.5152e+01	3.1568e+00	−3.2668e−01	1.2239e+01	5.9715e+01
^{104}Sr	$(n\gamma)^{105}$Sr	2.6690e+00	0.0	0.5	0.0800	0.01	2.1e−03	0
	4.5178e+01	−3.2012e−01	3.1815e+01	−7.0280e+01	5.2928e+00	−4.5832e−01	2.9269e+01	6.8176e+01
^{105}Sr	$(n\gamma)^{106}$Sr	4.7630e+00	0.5	0.0	0.8450	0.01	5.6e−04	0
	3.8477e+01	1.9830e−02	3.9980e+00	−3.2331e+01	3.4229e+00	−3.5554e−01	8.4448e+00	6.2862e+01
^{106}Sr	$(n\gamma)^{107}$Sr	2.2000e+00	0.0	3.5	0.1350	0.01	2.1e−03	0
	4.6095e+01	−3.0000e−01	3.1037e+01	−7.1815e+01	5.5369e+00	−4.7622e−01	2.9371e+01	6.7707e+01
^{107}Sr	$(n\gamma)^{108}$Sr	4.0010e+00	3.5	0.0	1.5400	0.01	4.6e−04	0
	2.6184e+01	−6.3296e−02	7.5289e+00	−2.4556e+01	2.4992e+00	−2.9750e−01	8.2114e+00	5.1955e+01
^{108}Sr	$(n\gamma)^{109}$Sr	1.5980e+00	0.0	0.5	0.3450	0.01	1.6e−03	0
	3.8089e+01	−2.4322e−01	2.4478e+01	−5.8527e+01	5.0286e+00	−4.6665e−01	2.3084e+01	6.1088e+01
^{109}Sr	$(n\gamma)^{110}$Sr	3.0860e+00	0.5	0.0	2.6100	0.01	6.5e−04	0
	2.7795e+01	1.9431e−02	1.7617e+00	−2.0981e+01	2.4953e+00	−2.9960e−01	4.8269e+00	5.2180e+01
^{110}Sr	$(n\gamma)^{111}$Sr	1.1120e+00	0.0	2.5	0.7500	0.01	7.1e−04	0
	3.3938e+01	−1.2730e−01	1.5079e+01	−4.6213e+01	4.7183e+00	−4.8151e−01	1.6131e+01	5.5839e+01
^{111}Sr	$(n\gamma)^{112}$Sr	2.4210e+00	2.5	0.0	3.6200	0.01	1.2e−03	0
	1.4105e+01	2.3075e−02	−1.2793e+00	−5.1681e+00	1.3825e+00	−2.5478e−01	1.6914e−02	3.9589e+01
^{112}Sr	$(n\gamma)^{113}$Sr	1.8680e+00	0.0	2.5	0.9950	0.01	1.2e−03	0
	2.8840e+01	−9.9239e−02	1.1946e+01	−3.4945e+01	3.1049e+00	−3.4760e−01	1.2682e+01	5.0740e+01
^{113}Sr	$(n\gamma)^{114}$Sr	3.4700e+00	2.5	0.0	2.5500	0.01	5.2e−03	0
	−7.5676e+00	1.4544e−01	−1.5454e+01	3.4056e+01	−1.4487e+00	−1.0672e−01	−1.4657e+01	1.7917e+01
^{114}Sr	$(n\gamma)^{115}$Sr	1.2950e+00	0.0	1.5	0.7500	0.01	4.3e−04	0
	−3.2732e−02	6.6375e−02	−7.2676e+00	1.4773e+01	−1.0200e−01	−1.7416e−01	−6.8559e+00	2.2274e+01
^{115}Sr	$(n\gamma)^{116}$Sr	2.8790e+00	1.5	0.0	3.5400	0.01	1.8e−03	0
	−1.1756e+01	1.2320e−01	−1.4571e+01	3.6832e+01	−2.1719e+00	−1.0885e−02	−1.4838e+01	1.3323e+01
^{116}Sr	$(n\gamma)^{117}$Sr	9.3200e−01	0.0	0.5	1.5600	0.01	2.4e−03	0
	−1.3402e+01	1.4707e−01	−1.6427e+01	3.6670e+01	−1.1907e+00	−1.3845e−01	−1.5932e+01	9.5980e+00
^{117}Sr	$(n\gamma)^{118}$Sr	2.8540e+00	0.5	0.0	4.4150	0.01	2.4e−04	0
	−9.0649e+00	7.1963e−02	−9.9021e+00	3.0632e+01	−2.3440e+00	4.3352e−02	−1.1111e+01	1.5321e+01
^{118}Sr	$(n\gamma)^{119}$Sr	2.2750e+00	0.0	0.5	n.c.	0.01	4.1e−04	0
	−2.7614e+00	3.2484e−02	−5.5018e+00	1.8264e+01	−1.2965e+00	−2.3835e−02	−6.6006e+00	2.0239e+01
^{119}Sr	$(n\gamma)^{120}$Sr	2.6050e+00	0.5	0.0	n.c.	0.01	1.2e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−2.4819e+00	4.3992e−02	−6.8120e+00	1.7793e+01	−6.9445e−01	−9.4083e−02	−7.5477e+00	2.1904e+01
^{121}Sr	(nγ)^{122}Sr	5.0900e−01	3.5	0.0	n.c.	0.01	3.7e−04	0
	2.8695e−02	1.1510e−01	−9.3358e+00	8.8882e+00	1.4064e+00	−2.8867e−01	−6.6004e+00	2.5802e+01
^{127}Sr	(nγ)^{128}Sr	6.3700e−01	0.5	0.0	n.c.	0.01	1.8e−03	0
	2.0472e+00	1.5334e−01	−1.4434e+01	1.2202e+01	1.9272e+00	−3.7196e−01	−1.1011e+01	2.6434e+01
^{83}Y	(np)^{83}Sr	5.2490e+00	4.5	3.5	0.0100	0.01	8.8e−05	
	2.8375e+01	1.2550e−02	3.0178e+00	−1.2865e+01	1.3668e+00	−1.1763e−01	4.4379e+00	2.8598e+01
	1.00 1.00	1.01 1.01	1.01 1.01	1.01 1.01	1.00 1.00	0.98 0.98	1.00 1.04	0.95 0.79
^{83}Y	(nα)^{80}Rb	5.4880e+00	4.5	1.0	0.0100	0.01	3.2e−03	0
	8.9221e+01	−5.8519e−01	5.6777e+01	−1.5261e+02	1.5346e+01	−1.1709e+00	5.7073e+01	8.9094e+01
^{84}Y	(np)^{84}Sr	7.1920e+00	1.0	0.0	0.0100	0.01	2.1e−04	
	1.9171e+01	3.0104e−02	8.5488e−02	1.2847e+00	−6.4374e−01	6.5535e−02	5.0433e−01	2.0269e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.86 0.72	0.63 0.52	0.47 0.44
^{84}Y	(nα)^{81}Rb	6.8690e+00	1.0	1.5	0.0100	0.01	7.6e−04	0
	−8.5405e+00	1.2593e−02	−9.3013e+00	3.2501e+01	−2.4547e+00	1.9884e−01	−1.0672e+01	−1.0160e+01
^{85}Y	(np)^{85}Sr	4.0370e+00	0.5	4.5	0.0100	0.01	3.4e−05	
	1.5361e+01	8.3562e−02	−5.2756e+00	8.4931e+00	−3.0026e−01	3.4072e−03	−3.9842e+00	1.3752e+01
	1.08 1.07	1.04 1.02	1.01 1.00	0.99 0.99	0.99 0.98	1.04 1.12	1.19 1.24	1.23 1.16
^{85}Y	(nα)^{82}Rb	3.9880e+00	0.5	1.0	0.0100	0.01	1.4e−02	0
	−4.5780e+01	4.3245e−01	−4.6504e+01	9.1617e+01	−1.7451e−01	−3.4424e−01	−4.1851e+01	−4.7517e+01
^{86}Y	(np)^{86}Sr	6.0230e+00	4.0	0.0	0.0100	0.01	5.4e−05	
	1.7692e+01	7.2906e−02	−3.2499e+00	4.5103e+00	−6.7610e−01	7.5059e−02	−1.7801e+00	1.9890e+01
	1.00 1.00	1.00 1.00	0.99 0.98	0.96 0.94	0.92 0.89	0.78 0.74	0.70 0.65	0.69 0.80
^{86}Y	(nα)^{83}Rb	5.4390e+00	4.0	2.5	0.0100	0.01	2.1e−04	0
	3.1056e+01	−1.9613e−01	1.5402e+01	−4.3758e+01	5.3860e+00	−3.9717e−01	1.5808e+01	3.0128e+01
^{87}Y	(np)^{87}Sr	2.6440e+00	0.5	4.5	0.0100	0.01	4.4e−03	
	−3.3383e+01	2.5744e−01	−2.8119e+01	8.1490e+01	−6.3664e+00	4.4258e−01	−2.9498e+01	−3.4992e+01
	1.00 1.00	1.00 1.00	1.01 1.03	1.06 1.14	1.24 1.38	2.58 2.75	2.75 3.10	3.91 4.70
^{87}Y	(nα)^{84}Rb	2.3810e+00	0.5	2.0	0.0100	0.01	1.5e−02	0
	−3.1552e+02	1.3072e+00	−1.6798e+02	4.9942e+02	−3.4532e+01	1.9540e+00	−1.7961e+02	−3.1777e+02
^{88}Y	(np)^{88}Sr	4.4050e+00	4.0	0.0	0.0100	0.01	2.3e−03	
	−1.2196e+01	2.0947e−01	−1.9390e+01	5.0828e+01	−4.6877e+00	3.9140e−01	−1.8722e+01	−9.9990e+00
	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.98	0.98 0.98	1.11 1.11	1.01 0.92	1.44 2.18
^{88}Y	(nα)^{85}Rb	3.5170e+00	4.0	2.5	0.0100	0.01	9.4e−03	0
	−8.6569e+01	5.9512e−01	−6.8394e+01	1.5482e+02	−5.3148e+00	2.2387e−02	−6.4838e+01	−8.7498e+01
^{89}Y	(nγ)^{90}Y	6.8570e+00	0.5	2.0	0.0100	0.01	1.1e−03	
	2.0949e+01	2.1058e−02	−1.4214e+00	−5.0598e+00	2.1147e+00	−3.2487e−01	−2.5232e−01	4.3722e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.05 1.17	1.26 1.06	0.44 0.14
^{89}Y	(nα)^{86}Rb	6.9000e−01	0.5	2.0	0.0100	0.01	1.7e−02	0
	−2.4573e+02	−1.6267e+01	9.7769e+01	1.4617e+02	−1.7706e+01	1.0944e+00	1.1548e+01	−2.4798e+02
^{90}Y	(nγ)^{91}Y	7.9330e+00	2.0	0.5	0.0100	0.01	4.8e−04	
	1.8161e+00	1.4307e−01	−1.4306e+01	3.1731e+01	−2.2312e+00	7.3786e−02	−1.3213e+01	2.6422e+01
	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.98	0.98 0.97	0.99 0.95	0.79 0.42	0.20 0.09
^{90}Y	(np)^{90}Sr	2.3700e−01	2.0	0.0	0.0100	0.01	4.7e−03	0
	8.7265e+01	−5.3935e−01	9.0091e+01	−1.9144e+02	9.3282e+00	−4.0216e−01	9.6554e+01	8.8874e+01
^{90}Y	(nα)^{87}Rb	3.7530e+00	2.0	1.5	0.0100	0.01	2.4e−02	0
	−6.0090e+01	−2.4657e−02	−3.8149e+01	9.8148e+01	−2.0010e+00	−1.4391e−01	−4.0698e+01	−6.1202e+01
^{91}Y	(nγ)^{92}Y	6.5540e+00	0.5	2.0	0.0100	0.01	1.8e−03	
	−1.6591e+01	2.2691e−01	−2.4704e+01	6.1295e+01	−4.1429e+00	1.4624e−01	−2.4294e+01	6.1819e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.13 1.21	1.15 0.58	0.20 0.07
^{91}Y	(nα)^{88}Rb	1.9000e+00	0.5	2.0	0.0100	0.01	5.8e−02	0
	−3.4262e+02	6.4361e−01	−1.1413e+02	4.7229e+02	−3.8421e+01	2.3985e+00	−1.4585e+02	−3.4487e+02
^{92}Y	(nγ)^{93}Y	7.4860e+00	2.0	0.5	0.0100	0.01	8.6e−03	
	−2.5856e+00	1.9279e−01	−1.9334e+01	4.1760e+01	−2.5089e+00	2.7871e−02	−1.7787e+01	2.2020e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.98 0.97	0.88 0.83	0.77 0.29	0.07 0.02
^{92}Y	(nα)^{89}Rb	2.5200e+00	2.0	1.5	0.0100	0.01	2.0e−02	0
	−3.2876e+02	1.6943e+00	−2.0513e+02	5.5266e+02	−3.6225e+01	1.9508e+00	−2.0953e+02	−3.2987e+02
^{93}Y	(nγ)^{94}Y	6.1750e+00	0.5	2.0	0.0100	0.01	1.7e−03	
	−3.3855e+01	3.0962e−01	−3.4529e+01	9.1805e+01	−7.4443e+00	4.2409e−01	−3.4844e+01	−1.1082e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 0.95	0.67 0.22	0.07 0.03
^{93}Y	(nα)^{90}Rb	7.5300e−01	0.5	0.0	0.0100	0.01	2.0e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−2.8536e+02	−1.6610e+01	1.2542e+02	1.6587e+02	−2.4728e+01	1.8033e+00	2.0332e+01	−2.8600e+02
^{94}Y	$(n\gamma)^{95}$Y	6.9620e+00	2.0	0.5	0.0100	0.01	2.9e−04	0
	4.1284e+00	4.4236e−02	−6.3562e+00	2.1340e+01	−2.2271e+00	1.0429e−01	−7.3514e+00	2.8735e+01
^{95}Y	$(n\gamma)^{96}$Y	5.1870e+00	0.5	0.0	0.0100	0.01	9.7e−03	0
	−4.8394e+01	4.1139e−01	−4.5320e+01	1.1746e+02	−9.0171e+00	4.7493e−01	−4.5251e+01	−2.4010e+01
^{96}Y	$(n\gamma)^{97}$Y	5.9790e+00	0.0	0.5	0.0100	0.01	7.7e−04	0
	2.9351e+01	1.0225e−01	−4.9841e+00	−8.9648e+00	1.1930e+00	−1.5900e−01	−4.8358e−01	5.2348e+01
^{97}Y	$(n\gamma)^{98}$Y	4.2450e+00	0.5	0.0	0.0150	0.01	2.3e−03	0
	−4.4384e+01	3.1340e−01	−3.6468e+01	1.0350e+02	−8.8157e+00	5.2453e−01	−3.8002e+01	−2.0001e+01
^{98}Y	$(n\gamma)^{99}$Y	5.8400e+00	0.0	2.5	0.0150	0.01	2.2e−04	0
	9.1228e+00	3.4479e−01	−2.8991e+01	3.7536e+01	−1.3706e+00	−2.3553e−02	−2.1850e+01	3.1022e+01
^{99}Y	$(n\gamma)^{100}$Y	5.1630e+00	2.5	1.0	0.0100	0.01	1.2e−05	0
	1.1261e+01	1.6270e−02	−2.6626e+00	7.3526e+00	−7.8860e−01	−1.1310e−02	−3.0050e+00	3.5645e+01
^{100}Y	$(n\gamma)^{101}$Y	5.6900e+00	1.0	2.5	0.0100	0.01	2.3e−04	0
	2.9013e+01	−9.5047e−02	1.0260e+01	−2.3740e+01	1.2320e+00	−1.3322e−01	9.8811e+00	5.2011e+01
^{101}Y	$(n\gamma)^{102}$Y	5.0510e+00	2.5	1.0	0.0100	0.01	4.3e−04	0
	1.2431e+00	1.0408e−01	−1.1546e+01	2.7813e+01	−2.1329e+00	5.4798e−02	−1.1335e+01	2.5627e+01
^{102}Y	$(n\gamma)^{103}$Y	5.3990e+00	1.0	2.5	0.0100	0.01	5.9e−04	0
	3.0806e+01	8.0356e−02	−3.1910e+00	−1.3703e+01	1.7635e+00	−2.0917e−01	1.0909e+00	5.3804e+01
^{103}Y	$(n\gamma)^{104}$Y	3.6140e+00	2.5	3.0	0.0100	0.01	3.8e−04	0
	3.3493e+01	−6.7111e−02	8.9218e+00	−3.1446e+01	2.9479e+00	−3.0444e−01	1.0293e+01	5.7030e+01
^{104}Y	$(n\gamma)^{105}$Y	5.0810e+00	3.0	2.5	0.0250	0.01	3.3e−04	0
	3.0430e+01	−2.1944e−02	4.4480e+00	−2.1760e+01	1.9476e+00	−2.1003e−01	6.2144e+00	5.4276e+01
^{105}Y	$(n\gamma)^{106}$Y	3.3440e+00	2.5	3.0	0.0100	0.01	4.6e−04	0
	3.2304e+01	−5.6598e−02	7.9662e+00	−2.9718e+01	2.8632e+00	−3.0274e−01	9.4874e+00	5.5841e+01
^{106}Y	$(n\gamma)^{107}$Y	4.8260e+00	3.0	2.5	0.0350	0.01	3.5e−04	0
	3.0428e+01	−1.3607e−02	3.8832e+00	−2.1770e+01	2.0301e+00	−2.1866e−01	5.9276e+00	5.4273e+01
^{107}Y	$(n\gamma)^{108}$Y	2.9330e+00	2.5	4.0	0.0100	0.01	3.7e−04	0
	3.2269e+01	−4.5947e−02	7.1858e+00	−3.0144e+01	3.1140e+00	−3.2712e−01	9.0986e+00	5.5555e+01
^{108}Y	$(n\gamma)^{109}$Y	4.1170e+00	4.0	2.5	0.0750	0.01	2.2e−04	0
	2.7675e+01	−2.8931e−02	4.6984e+00	−2.1045e+01	1.9323e+00	−2.1332e−01	6.1377e+00	5.1773e+01
^{109}Y	$(n\gamma)^{110}$Y	2.1750e+00	2.5	2.0	0.0250	0.01	4.1e−04	0
	2.8657e+01	−3.8198e−02	5.9714e+00	−2.6884e+01	3.0212e+00	−3.3121e−01	7.7420e+00	5.2532e+01
^{110}Y	$(n\gamma)^{111}$Y	3.3460e+00	2.0	2.5	0.2000	0.01	3.3e−04	0
	2.5925e+01	5.0116e−02	−1.7351e+00	−1.3921e+01	1.8423e+00	−2.2258e−01	1.5086e+00	4.9435e+01
^{111}Y	$(n\gamma)^{112}$Y	1.3000e+00	2.5	3.0	0.0650	0.01	6.8e−04	0
	2.5875e+01	−2.6949e−02	4.6124e+00	−2.4667e+01	3.2250e+00	−3.6868e−01	6.4653e+00	4.9413e+01
^{112}Y	$(n\gamma)^{113}$Y	3.3980e+00	3.0	2.5	0.3600	0.01	3.1e−04	0
	2.1688e+01	1.0425e−01	−7.4295e+00	−4.0671e+00	1.4761e+00	−2.1182e−01	−3.5781e+00	4.5535e+01
^{113}Y	$(n\gamma)^{114}$Y	1.7520e+00	2.5	2.0	0.0450	0.01	8.0e−04	0
	2.5228e+01	−1.0657e−02	3.1245e+00	−2.0827e+01	2.7170e+00	−3.2846e−01	5.0974e+00	4.9102e+01
^{114}Y	$(n\gamma)^{115}$Y	3.5550e+00	2.0	4.5	0.1750	0.01	2.7e−04	0
	2.1056e+01	1.3377e−01	−9.6590e+00	−1.6889e−01	1.0736e+00	−1.7670e−01	−5.2387e+00	4.4056e+01
^{115}Y	$(n\gamma)^{116}$Y	2.0610e+00	4.5	5.0	0.0300	0.01	4.6e−04	0
	1.2269e+01	3.1115e−03	−4.7315e−01	−2.6088e+00	6.5123e−01	−1.5842e−01	−1.4031e−01	3.5867e+01
^{116}Y	$(n\gamma)^{117}$Y	3.0100e+00	5.0	4.5	0.2450	0.01	2.2e−05	0
	2.2551e+01	−5.5528e−02	6.0583e+00	−1.8852e+01	1.4966e+00	−1.7394e−01	6.3503e+00	4.6340e+01
^{117}Y	$(n\gamma)^{118}$Y	1.5590e+00	4.5	4.0	0.1000	0.01	4.6e−04	0
	1.1136e+01	−1.1628e−03	−2.2030e−01	−3.5426e+00	1.0143e+00	−1.9524e−01	5.3343e−02	3.4935e+01
^{118}Y	$(n\gamma)^{119}$Y	2.6300e+00	4.0	4.5	0.6250	0.01	2.5e−05	0
	2.6228e+01	−6.5862e−02	7.6380e+00	−2.4762e+01	2.1110e+00	−2.1679e−01	8.2683e+00	4.9816e+01
^{119}Y	$(n\gamma)^{120}$Y	2.7820e+00	4.5	3.0	0.1200	0.01	4.4e−05	0
	2.3708e+01	−4.9406e−02	5.8998e+00	−2.0967e+01	1.9135e+00	−2.1097e−01	6.6306e+00	4.7758e+01
^{120}Y	$(n\gamma)^{121}$Y	2.9900e+00	3.0	0.5	0.3500	0.01	1.1e−05	0
	1.8000e+01	−3.7779e−02	4.2945e+00	−1.3592e+01	1.0904e+00	−1.3729e−01	4.5869e+00	4.2946e+01
^{122}Y	$(n\gamma)^{123}$Y	5.8200e−01	3.0	0.5	n.c.	0.01	1.3e−04	0
	1.1875e+01	−5.6314e−03	1.2519e+00	−1.1983e+01	2.2558e+00	−2.7280e−01	2.3358e+00	3.6821e+01
^{124}Y	$(n\gamma)^{125}$Y	2.2000e−02	3.0	0.5	n.c.	0.01	3.8e−05	0
	4.0729e+00	−9.9649e−02	1.2076e+01	−1.9929e+01	1.4248e+00	−1.8783e−01	1.1249e+01	2.9019e+01
^{128}Y	$(n\gamma)^{129}$Y	4.8800e−01	1.0	1.5	n.c.	0.01	7.6e−04	0
	−1.4715e+01	3.1051e−01	−2.9946e+01	4.8437e+01	−1.3437e+00	−1.0285e−01	−2.5408e+01	8.6913e+00

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{130}Y	$(n\gamma)^{131}$Y	1.1600e−01	3.0	2.5	n.c.	0.01	5.2e−04	0
	−1.6481e+01	6.3119e−02	−8.3568e+00	2.5629e+01	−1.2035e+00	−7.9533e−02	−9.2932e+00	7.3670e+00
^{85}Zr	$(np)^{85}$Y	5.4750e+00	3.5	0.5	0.0100	0.01	5.1e−05	
	1.8101e+01	7.3438e−02	−3.6663e+00	5.9298e+00	−2.9423e−01	−4.0527e−03	−2.3737e+00	1.9487e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.02 0.94	0.79 0.66
^{85}Zr	$(n\alpha)^{82}$Sr	8.5000e+00	3.5	0.0	0.0100	0.01	4.0e−04	0
	8.5757e+00	−6.5761e−02	2.2523e−02	5.8359e+00	−5.5433e−01	7.7746e−02	−8.9076e−01	9.3228e+00
^{86}Zr	$(np)^{86}$Y	2.2550e+00	0.0	4.0	0.0100	0.01	2.3e−03	
	−1.3100e+01	3.2131e−01	−2.9049e+01	5.7206e+01	−1.1809e+00	−1.2598e−01	−2.5607e+01	−1.5298e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.61 2.86	4.19 6.31	5.67 3.94
^{86}Zr	$(n\alpha)^{83}$Sr	4.6350e+00	0.0	3.5	0.0100	0.01	8.9e−03	0
	−6.0314e+01	5.1978e−01	−5.7961e+01	1.2412e+02	−3.6984e+00	−5.9333e−02	−5.3669e+01	−6.3726e+01
^{87}Zr	$(np)^{87}$Y	4.4470e+00	4.5	0.5	0.0100	0.01	6.1e−05	
	2.5228e+01	3.8184e−02	3.0214e−01	−8.4734e+00	1.3986e+00	−1.3090e−01	2.0316e+00	2.6837e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.02 1.02	1.10 1.21	1.33 1.52	1.49 1.35
^{87}Zr	$(n\alpha)^{84}$Sr	6.9400e+00	4.5	0.0	0.0100	0.01	7.2e−05	0
	1.1219e+01	−5.9704e−02	1.0361e+00	−3.6453e+00	1.3530e+00	−8.6802e−02	1.1002e+00	1.2188e+01
^{88}Zr	$(np)^{88}$Y	1.4530e+00	0.0	4.0	0.0100	0.01	6.6e−04	
	−9.2733e+01	6.5092e−01	−6.8693e+01	1.7789e+02	−1.0131e+01	4.0572e−01	−6.8196e+01	−9.4931e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.91 4.77	10.16 21.55	21.11 14.74
^{88}Zr	$(n\alpha)^{85}$Sr	3.1220e+00	0.0	4.5	0.0100	0.01	3.1e−02	0
	−2.9408e+02	1.7196e+00	−1.9687e+02	5.1065e+02	−3.2657e+01	1.7456e+00	−1.9694e+02	−2.9771e+02
^{89}Zr	$(np)^{89}$Y	3.6140e+00	4.5	0.5	0.0100	0.01	2.7e−04	
	1.4391e+01	9.4257e−02	−6.2712e+00	6.4136e+00	8.1449e−01	−1.1685e−01	−4.4662e+00	1.6001e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.09 1.24	1.41 1.63	1.92 1.90
^{89}Zr	$(n\alpha)^{86}$Sr	5.2960e+00	4.5	0.0	0.0100	0.01	4.8e−03	0
	6.4353e−01	1.1946e−01	−1.3710e+01	1.3731e+01	3.0463e+00	−3.5534e−01	−1.0203e+01	1.6113e+00
^{90}Zr	$(n\gamma)^{91}$Zr	7.1950e+00	0.0	2.5	0.0100	0.01	9.9e−04	
	4.0315e+01	−1.2606e−01	1.3962e+01	−4.3071e+01	5.2124e+00	−5.2646e−01	1.4618e+01	6.2213e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.04 1.08	0.58 0.19
^{90}Zr	$(n\alpha)^{87}$Sr	1.7540e+00	0.0	4.5	0.0100	0.01	1.8e−01	0
	−3.1231e+02	−1.0338e−01	−4.7747e+01	3.6745e+02	−3.3237e+01	2.1613e+00	−9.1187e+01	−3.1595e+02
^{91}Zr	$(n\gamma)^{92}$Zr	8.6350e+00	2.5	0.0	0.0300	0.01	2.5e−03	
	1.4268e+01	7.0067e−02	−6.6681e+00	8.5463e+00	7.0423e−01	−2.1367e−01	−5.4242e+00	3.9749e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.97 0.59	0.20 0.06
^{91}Zr	$(n\alpha)^{88}$Sr	5.6720e+00	2.5	0.0	0.0300	0.01	6.2e−03	0
	1.1265e+01	1.0431e−01	−6.8416e+00	2.1667e−01	2.6355e+00	−2.4143e−01	−4.0401e+00	1.1721e+01
^{92}Zr	$(n\gamma)^{93}$Zr	6.7340e+00	0.0	2.5	0.0100	0.01	7.4e−04	
	9.5459e+00	7.7233e−02	−7.9189e+00	1.4349e+01	1.7749e−01	−1.7510e−01	−7.0977e+00	3.1444e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.04	1.04 0.74	0.31 0.10
^{92}Zr	$(n\alpha)^{89}$Sr	3.3950e+00	0.0	2.5	0.0100	0.01	1.5e−02	0
	−1.6718e+02	1.0832e+00	−1.1812e+02	2.9485e+02	−1.6665e+01	7.7419e−01	−1.1634e+02	−1.7031e+02
^{93}Zr	$(n\gamma)^{94}$Zr	8.2200e+00	2.5	0.0	0.0200	0.01	2.3e−03	
	1.3631e+01	7.4337e−02	−7.0839e+00	1.0055e+01	3.9408e−01	−1.8542e−01	−5.8578e+00	3.9112e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.98	0.93 0.89	0.82 0.44	0.14 0.04
^{93}Zr	$(n\alpha)^{90}$Sr	4.4690e+00	2.5	0.0	0.0200	0.01	1.6e−02	0
	1.1810e+01	1.9257e−01	−1.3516e+01	−4.0051e+00	6.8228e+00	−7.5540e−01	−7.2911e+00	1.2264e+01
^{94}Zr	$(n\gamma)^{95}$Zr	6.4630e+00	0.0	2.5	0.0100	0.01	2.3e−03	
	−2.0695e+00	1.5031e−01	−1.5982e+01	3.5437e+01	−1.3920e+00	−9.6539e−02	−1.5175e+01	1.9829e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.07	1.09 0.63	0.20 0.05
^{94}Zr	$(n\alpha)^{91}$Sr	2.0290e+00	0.0	2.5	0.0100	0.01	5.2e−02	0
	−3.7181e+02	1.0014e+00	−1.4810e+02	5.3930e+02	−4.2556e+01	2.6458e+00	−1.7598e+02	−3.7494e+02
^{95}Zr	$(n\gamma)^{96}$Zr	7.8540e+00	2.5	0.0	0.0150	0.01	1.9e−03	
	−2.1921e+00	1.5476e−01	−1.6546e+01	3.6998e+01	−1.8842e+00	−3.7346e−02	−1.5762e+01	2.3290e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.03	0.94 0.45	0.14 0.04
^{95}Zr	$(n\alpha)^{92}$Sr	2.9070e+00	2.5	0.0	0.0150	0.01	2.5e−02	0
	−2.4719e+02	1.6001e+00	−1.7274e+02	4.3030e+02	−2.5780e+01	1.3181e+00	−1.6981e+02	−2.4673e+02
^{96}Zr	$(n\gamma)^{97}$Zr	5.5800e+00	0.0	0.5	0.0100	0.01	7.8e−03	
	−9.0349e+00	1.8140e−01	−1.9449e+01	4.5088e+01	−2.1524e+00	−6.1927e−02	−1.8727e+01	1.3962e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.00 0.39	0.09 0.02
^{96}Zr	$(n\alpha)^{93}$Sr	3.6700e−01	0.0	2.5	0.0100	0.01	2.0e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−4.5446e+02	−1.9469e+01	−2.7150e+02	7.5744e+02	−5.3065e+01	3.0847e+00	−2.8221e+02	−4.5759e+02
^{97}Zr	$(n\gamma)^{98}$Zr	6.3880e+00	0.5	0.0	0.0400	0.01	8.5e−03	
	−2.5544e+01	2.7954e−01	−3.0358e+01	7.4957e+01	−4.9471e+00	1.5308e−01	−2.9801e+01	−1.1605e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.04	0.99 0.32	0.07 0.02
^{97}Zr	$(n\alpha)^{94}$Sr	1.5340e+00	0.5	0.0	0.0400	0.01	1.3e−01	0
	−2.9044e+02	−6.3214e−01	1.8474e+00	2.9082e+02	−3.0892e+01	2.1532e+00	−5.0583e+01	−2.9108e+02
^{98}Zr	$(n\gamma)^{99}$Zr	4.5760e+00	0.0	0.5	0.0250	0.01	5.2e−03	
	−6.4441e+00	1.4166e−01	−1.5761e+01	3.8378e+01	−1.9046e+00	−6.9974e−02	−1.5576e+01	1.6553e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.93 0.40	0.09 0.02
^{99}Zr	$(n\gamma)^{100}$Zr	6.9060e+00	0.5	0.0	0.0650	0.01	9.3e−05	
	1.3806e+01	2.3306e−02	−2.6852e+00	4.0732e+00	5.8031e−02	−1.1127e−01	−2.4315e+00	3.8189e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.97 0.97	0.97 0.98	1.06 1.00	0.85 0.49	0.19 0.06
^{99}Zr	$(n\alpha)^{96}$Sr	8.5900e−01	0.5	0.0	0.0650	0.01	4.3e−03	0
	2.1236e+01	−1.5887e+01	4.9294e+02	−5.5413e+02	2.1892e+01	−9.6869e−01	3.3939e+02	2.0589e+01
^{100}Zr	$(n\gamma)^{101}$Zr	4.9250e+00	0.0	1.5	0.0150	0.01	9.4e−04	0
	4.6944e+01	−1.9482e−01	2.1150e+01	−5.9377e+01	6.0754e+00	−5.9795e−01	2.1419e+01	6.9249e+01
^{101}Zr	$(n\gamma)^{102}$Zr	6.3560e+00	1.5	0.0	0.0550	0.01	8.8e−04	0
	4.0870e+01	−9.5957e−02	1.1676e+01	−4.2006e+01	4.7634e+00	−4.9175e−01	1.3215e+01	6.5947e+01
^{102}Zr	$(n\gamma)^{103}$Zr	4.7030e+00	0.0	2.5	0.0100	0.01	3.4e−04	0
	2.8797e+01	−8.0614e−02	8.7071e+00	−2.6255e+01	3.1763e+00	−3.8365e−01	8.9706e+00	5.0696e+01
^{103}Zr	$(n\gamma)^{104}$Zr	6.1330e+00	2.5	0.0	0.0500	0.01	5.0e−04	0
	1.4595e+01	3.2248e−02	−3.3076e+00	2.5785e+00	5.6422e−01	−1.7707e−01	−2.6194e+00	4.0078e+01
^{104}Zr	$(n\gamma)^{105}$Zr	3.6790e+00	0.0	2.5	0.0150	0.01	7.3e−04	0
	3.4084e+01	−7.5214e−02	9.6344e+00	−3.5100e+01	4.3890e+00	−4.9562e−01	1.1085e+01	5.5984e+01
^{105}Zr	$(n\gamma)^{106}$Zr	5.7360e+00	2.5	0.0	0.1750	0.01	4.6e−04	0
	3.4360e+01	−1.1444e−01	1.2737e+01	−3.5368e+01	3.0080e+00	−3.1471e−01	1.2989e+01	5.9843e+01
^{106}Zr	$(n\gamma)^{107}$Zr	3.4710e+00	0.0	0.5	0.0250	0.01	2.7e−03	0
	4.3200e+01	−3.1492e−01	3.0807e+01	−6.5262e+01	4.7561e+00	−4.2634e−01	2.7866e+01	6.6198e+01
^{107}Zr	$(n\gamma)^{108}$Zr	5.4820e+00	0.5	0.0	0.2500	0.01	9.6e−04	0
	4.4314e+01	−5.1685e−02	1.0754e+01	−4.4259e+01	4.0513e+00	−3.9302e−01	1.4208e+01	6.8699e+01
^{108}Zr	$(n\gamma)^{109}$Zr	3.0690e+00	0.0	3.5	0.0400	0.01	2.4e−03	0
	5.3726e+01	−3.8181e−01	3.8706e+01	−8.6025e+01	6.3203e+00	−5.2578e−01	3.5965e+01	7.5339e+01
^{109}Zr	$(n\gamma)^{110}$Zr	4.7240e+00	3.5	0.0	0.5250	0.01	7.0e−04	0
	2.4173e+01	−6.4588e−02	6.9950e+00	−2.0260e+01	2.0417e+00	−2.7206e−01	7.1377e+00	4.9945e+01
^{110}Zr	$(n\gamma)^{111}$Zr	2.3110e+00	0.0	0.5	0.1100	0.01	2.0e−03	0
	4.6552e+01	−3.1310e−01	3.1654e+01	−7.2740e+01	5.7456e+00	−5.0611e−01	2.9616e+01	6.9551e+01
^{111}Zr	$(n\gamma)^{112}$Zr	4.0760e+00	0.5	0.0	1.2200	0.01	8.2e−04	0
	3.3799e+01	2.7315e−02	2.5158e+00	−2.6601e+01	2.9394e+00	−3.3245e−01	6.5354e+00	5.8184e+01
^{112}Zr	$(n\gamma)^{113}$Zr	1.3590e+00	0.0	2.5	0.3150	0.01	1.9e−03	0
	4.8025e+01	−3.0041e−01	3.1308e+01	−7.5947e+01	6.4980e+00	−5.8356e−01	3.0057e+01	6.9926e+01
^{113}Zr	$(n\gamma)^{114}$Zr	4.3460e+00	2.5	0.0	1.8000	0.01	2.8e−04	0
	3.6915e+01	−8.9173e−03	4.9583e+00	−3.3651e+01	3.8712e+00	−4.0204e−01	8.4895e+00	6.2399e+01
^{114}Zr	$(n\gamma)^{115}$Zr	2.1340e+00	0.0	2.5	0.1500	0.01	5.5e−04	0
	8.5119e+00	2.1304e−02	−1.8462e+00	2.7811e+00	4.7298e−01	−2.0127e−01	−1.4807e+00	3.0413e+01
^{115}Zr	$(n\gamma)^{116}$Zr	4.0980e+00	2.5	0.0	1.4550	0.01	1.1e−03	0
	1.7889e+01	6.2506e−03	7.4252e−01	−8.2152e+00	1.1855e+00	−2.2355e−01	1.8783e+00	4.3373e+01
^{116}Zr	$(n\gamma)^{117}$Zr	2.0900e+00	0.0	1.5	0.2650	0.01	4.8e−04	0
	2.4596e+00	6.6196e−02	−6.8583e+00	1.4058e+01	−2.0263e−01	−1.6393e−01	−6.3409e+00	2.4766e+01
^{117}Zr	$(n\gamma)^{118}$Zr	3.7110e+00	1.5	0.0	1.9150	0.01	5.4e−04	0
	−7.5320e+00	7.8496e−02	−1.0317e+01	3.0154e+01	−2.0610e+00	−1.4935e−03	−1.1263e+01	1.7547e+01
^{118}Zr	$(n\gamma)^{119}$Zr	1.6430e+00	0.0	0.5	0.6500	0.01	5.0e−04	0
	5.4077e−01	6.8995e−02	−7.7048e+00	1.5031e+01	1.2528e−01	−1.9813e−01	−7.2650e+00	2.3541e+01
^{119}Zr	$(n\gamma)^{120}$Zr	3.2210e+00	0.5	0.0	3.2100	0.01	1.9e−04	0
	−1.5773e+01	9.8055e−02	−1.3285e+01	4.2596e+01	−3.4748e+00	1.2129e−01	−1.4990e+01	8.6132e+00
^{120}Zr	$(n\gamma)^{121}$Zr	2.8100e+00	0.0	3.5	0.9150	0.01	7.1e−04	0
	−1.1199e+00	1.2154e−01	−1.0947e+01	2.3021e+01	−1.3171e+00	−4.5883e−02	−9.5214e+00	2.0494e+01
^{121}Zr	$(n\gamma)^{122}$Zr	3.6220e+00	3.5	0.0	2.3050	0.01	5.1e−04	0
	2.3693e+01	−4.3418e−02	7.0025e+00	−2.5968e+01	3.1203e+00	−3.6301e−01	8.5474e+00	4.9466e+01
^{123}Zr	$(n\gamma)^{124}$Zr	1.1770e+00	2.5	0.0	n.c.	0.01	1.8e−04	0
	7.4580e+00	−1.4066e−02	8.7087e−01	−5.8242e+00	1.5133e+00	−2.4635e−01	9.5965e−01	3.2943e+01
^{125}Zr	$(n\gamma)^{126}$Zr	6.4200e−01	1.5	0.0	n.c.	0.01	8.0e−04	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−1.2984e+01	6.7780e−02	−9.4973e+00	2.5817e+01	−1.0866e+00	−8.7659e−02	−1.0369e+01	1.2096e+01
^{129}Zr	(nγ)^{130}Zr	8.3400e−01	0.5	0.0	n.c.	0.01	3.2e−03	0
	6.4176e+00	9.5934e−02	−8.7753e+00	3.4767e+00	2.0533e+00	−3.6849e−01	−6.2074e+00	3.0805e+01
^{131}Zr	(nγ)^{132}Zr	5.3900e−01	1.5	0.0	n.c.	0.01	4.0e−03	0
	−2.5152e+01	1.6586e−01	−1.9520e+01	4.8706e+01	−2.3727e+00	−6.4553e−02	−1.9797e+01	−7.1222e−02
^{133}Zr	(nγ)^{134}Zr	4.0300e−01	1.5	0.0	n.c.	0.01	4.9e−03	0
	−1.7627e+01	1.4987e−01	−1.6621e+01	3.6128e+01	−9.9707e−01	−1.7387e−01	−1.5987e+01	7.4535e+00
^{87}Nb	(np)^{87}Zr	5.9510e+00	4.5	4.5	0.0100	0.01	5.0e−05	
	1.9684e+01	8.1228e−02	−3.8696e+00	4.4672e+00	−1.1400e−01	−1.8088e−02	−2.1385e+00	1.9684e+01
	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.99	0.99 0.99	0.99 1.01	1.02 0.95	0.81 0.68
^{87}Nb	(nα)^{84}Y	5.6990e+00	4.5	1.0	0.0100	0.01	7.5e−03	0
	4.6418e+01	−2.1251e−01	1.8286e+01	−6.9042e+01	1.0490e+01	−9.4688e−01	2.1525e+01	4.6288e+01
^{88}Nb	(np)^{88}Zr	8.3330e+00	8.0	0.0	0.0100	0.01	1.4e−05	
	1.7619e+01	6.8549e−02	−2.8669e+00	6.2111e+00	−8.1235e−01	5.8210e−02	−1.7142e+00	2.0452e+01
	1.08 1.16	1.23 1.29	1.34 1.38	1.41 1.44	1.47 1.49	1.53 1.44	1.31 1.04	0.84 0.71
^{88}Nb	(nα)^{85}Y	7.4170e+00	8.0	0.5	0.0100	0.01	1.9e−04	0
	2.6351e+01	−2.6836e−01	1.8007e+01	−3.5378e+01	2.8238e+00	−1.4607e−01	1.6054e+01	2.7156e+01
^{89}Nb	(np)^{89}Zr	5.0720e+00	4.5	4.5	0.0100	0.01	1.2e−04	
	3.0609e+01	2.0065e−02	2.8840e+00	−1.6249e+01	1.9907e+00	−1.7942e−01	4.9306e+00	3.0609e+01
	1.01 1.02	1.03 1.03	1.04 1.04	1.04 1.05	1.05 1.05	1.09 1.15	1.22 1.34	1.30 0.99
^{89}Nb	(nα)^{86}Y	4.3460e+00	4.5	4.0	0.0100	0.01	1.7e−02	0
	−2.4591e+01	2.9556e−01	−3.4703e+01	5.6547e+01	2.6023e+00	−5.1537e−01	−2.9274e+01	−2.5821e+01
^{90}Nb	(np)^{90}Zr	6.8930e+00	8.0	0.0	0.0100	0.01	6.7e−04	
	2.1628e+01	−6.4301e−02	8.3410e+00	−1.2511e+01	4.1447e−01	−7.0180e−03	7.1916e+00	2.4461e+01
	1.00 1.01	1.05 1.15	1.30 1.47	1.64 1.81	1.96 2.10	2.97 3.16	3.05 2.63	2.39 2.04
^{90}Nb	(nα)^{87}Y	6.0030e+00	8.0	0.5	0.0100	0.01	1.6e−03	0
	5.2374e+01	−4.5005e−01	4.0086e+01	−9.4524e+01	9.0062e+00	−6.2658e−01	3.7968e+01	5.3179e+01
^{91}Nb	(nγ)^{92}Nb	7.8820e+00	4.5	7.0	0.0100	0.01	9.7e−05	
	2.8644e+01	−1.9560e−03	2.0898e+00	−1.5209e+01	2.3716e+00	−2.8613e−01	3.7350e+00	5.1928e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.99 0.99	0.98 0.81	0.44 0.18
^{91}Nb	(np)^{91}Zr	2.0350e+00	4.5	2.5	0.0100	0.01	2.8e−03	0
	2.3812e+01	−1.2307e−01	1.4099e+01	−2.9972e+01	3.1103e+00	−1.9366e−01	1.2937e+01	2.4323e+01
^{91}Nb	(nα)^{88}Y	3.3020e+00	4.5	4.0	0.0100	0.01	2.7e−02	0
	−1.5068e+02	1.1565e+00	−1.2288e+02	2.7510e+02	−1.1457e+01	2.4025e−01	−1.1572e+02	−1.5191e+02
^{92}Nb	(nγ)^{93}Nb	8.8310e+00	7.0	4.5	0.0100	0.01	2.9e−04	
	1.8651e+01	4.5386e−02	−3.4137e+00	2.5887e+00	3.0908e−01	−1.1379e−01	−2.2059e+00	4.2746e+01
	1.00 1.00	1.00 1.00	1.01 1.01	1.02 1.02	1.02 1.02	0.94 0.86	0.76 0.46	0.21 0.09
^{92}Nb	(np)^{92}Zr	2.7880e+00	7.0	0.0	0.0100	0.01	1.9e−02	0
	1.5504e+02	−9.0384e−01	1.0922e+02	−2.7029e+02	1.9253e+01	−1.1610e+00	1.1037e+02	1.5774e+02
^{92}Nb	(nα)^{89}Y	6.8980e+00	7.0	0.5	0.0100	0.01	3.9e−03	
	4.2470e+01	−4.6839e−01	4.1611e+01	−7.8611e+01	5.0144e+00	−2.1628e−01	3.6207e+01	4.3148e+01
	1.00 1.01	1.09 1.34	1.73 2.22	2.75 3.26	3.75 4.19	6.51 7.23	8.21 13.34	30.24 61.28
^{93}Nb	(nγ)^{94}Nb	7.2280e+00	4.5	6.0	0.0100	0.01	1.8e−04	
	3.0948e+00	1.4268e−01	−1.4115e+01	3.0663e+01	−1.9856e+00	3.7122e−02	−1.2911e+01	2.6522e+01
	1.00 0.99	0.99 0.98	0.98 0.98	0.98 0.98	0.98 0.98	0.96 0.87	0.72 0.38	0.16 0.06
^{93}Nb	(np)^{93}Zr	6.9200e−01	4.5	2.5	0.0100	0.01	1.6e−02	0
	−9.0270e+01	3.3806e−02	−1.3022e+01	1.1287e+02	−1.1180e+01	8.1726e−01	−2.4930e+01	−8.9759e+01
^{93}Nb	(nα)^{90}Y	4.9240e+00	4.5	2.0	0.0100	0.01	7.5e−03	0
	3.2296e+01	−1.5825e−01	8.2702e+00	−4.5142e+01	9.0204e+00	−8.5521e−01	1.1276e+01	3.1652e+01
^{94}Nb	(nγ)^{95}Nb	8.4890e+00	6.0	4.5	0.0100	0.01	1.9e−04	
	1.1553e+01	1.4642e−01	−1.2851e+01	2.0329e+01	−8.9525e−01	−3.7610e−02	−1.0326e+01	3.5505e+01
	1.00 1.00	0.97 0.93	0.89 0.87	0.84 0.82	0.81 0.79	0.68 0.59	0.48 0.27	0.12 0.05
^{94}Nb	(np)^{94}Zr	1.6840e+00	6.0	0.0	0.0100	0.01	2.3e−03	0
	1.5030e+01	4.2015e−01	−2.4393e+01	1.2774e+01	1.9105e+00	−1.7330e−01	−1.1955e+01	1.7595e+01
^{94}Nb	(nα)^{91}Y	5.6290e+00	6.0	0.5	0.0100	0.01	3.0e−04	0
	7.9801e+01	−4.4189e−01	4.2898e+01	−1.2972e+02	1.3691e+01	−1.0110e+00	4.5615e+01	8.0335e+01
^{95}Nb	(nγ)^{96}Nb	6.8930e+00	4.5	6.0	0.0100	0.01	2.9e−03	
	−9.2030e+00	2.1711e−01	−2.2613e+01	5.3293e+01	−3.7218e+00	1.2673e−01	−2.1573e+01	1.4225e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.98 0.91	0.74 0.25	0.07 0.02
^{95}Nb	(nα)^{92}Y	3.6940e+00	4.5	2.0	0.0100	0.01	1.2e−02	0
	−1.0585e+02	7.9160e−01	−8.4456e+01	1.9144e+02	−7.6837e+00	1.6935e−01	−8.0073e+01	−1.0650e+02

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{96}Nb	$(n\gamma)^{97}$Nb	8.0740e+00	6.0	4.5	0.0100	0.01	8.2e−04	
	−6.5928e+00	2.4115e−01	−2.3798e+01	5.1864e+01	−3.6911e+00	1.5133e−01	−2.1754e+01	1.7360e+01
	1.00 0.99	0.98 0.97	0.96 0.95	0.94 0.94	0.93 0.93	0.93 0.86	0.67 0.27	0.10 0.03
^{96}Nb	$(np)^{96}$Zr	6.1900e−01	6.0	0.0	0.0100	0.01	6.8e−03	0
	2.1647e+01	−3.9548e−01	5.2789e+01	−8.1538e+01	3.1642e+00	−6.7237e−02	4.9819e+01	2.4212e+01
^{96}Nb	$(n\alpha)^{93}$Y	4.2860e+00	6.0	0.5	0.0100	0.01	9.7e−03	0
	1.6383e+01	−2.7260e−01	1.2173e+01	−3.9334e+01	8.9796e+00	−8.8062e−01	1.2044e+01	1.6917e+01
^{97}Nb	$(n\gamma)^{98}$Nb	5.9910e+00	4.5	1.0	0.0100	0.01	3.9e−03	
	−2.7500e+01	3.1216e−01	−3.3705e+01	8.3871e+01	−6.2283e+00	2.9408e−01	−3.3053e+01	−2.6056e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.95	0.72 0.20	0.05 0.01
^{97}Nb	$(n\alpha)^{94}$Y	2.3870e+00	4.5	2.0	0.0100	0.01	1.4e−02	0
	−3.9728e+02	1.9558e+00	−2.2973e+02	6.4886e+02	−4.4803e+01	2.5500e+00	−2.3938e+02	−3.9793e+02
^{98}Nb	$(n\gamma)^{99}$Nb	6.8720e+00	1.0	4.5	0.0100	0.01	4.4e−04	
	−2.3307e+00	9.7880e−02	−1.1575e+01	3.4935e+01	−3.5903e+00	2.0704e−01	−1.2316e+01	2.0156e+01
	1.00 1.01	1.02 1.05	1.06 1.07	1.07 1.07	1.06 1.06	0.95 0.68	0.40 0.14	0.05 0.02
^{98}Nb	$(n\alpha)^{95}$Y	3.3580e+00	1.0	0.5	0.0100	0.01	1.8e−02	0
	−9.2464e+01	6.6597e−01	−7.7246e+01	1.6540e+02	−4.2143e+00	−1.2437e−01	−7.2487e+01	−9.3398e+01
^{99}Nb	$(n\gamma)^{100}$Nb	5.6830e+00	4.5	1.0	0.0100	0.01	7.6e−04	
	−1.9121e+01	2.1081e−01	−2.3909e+01	6.4740e+01	−5.5183e+00	3.0088e−01	−2.4380e+01	5.7734e+00
	1.00 1.00	1.00 1.00	1.00 0.99	1.00 1.00	0.99 0.99	0.92 0.73	0.46 0.13	0.04 0.01
^{99}Nb	$(n\alpha)^{96}$Y	1.6730e+00	4.5	0.0	0.0100	0.01	1.2e−01	0
	−3.3047e+02	−1.2606e−01	−4.8311e+01	3.8716e+02	−3.6159e+01	2.4142e+00	−9.5133e+01	−3.2950e+02
^{100}Nb	$(n\gamma)^{101}$Nb	7.0750e+00	1.0	0.5	0.0100	0.01	7.9e−04	
	3.1127e+01	−1.1982e−01	1.2061e+01	−2.6723e+01	1.4068e+00	−1.3378e−01	1.1192e+01	5.5223e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.98	0.65 0.41	0.28 0.13	0.05 0.02
^{100}Nb	$(n\alpha)^{97}$Y	1.9690e+00	1.0	0.5	0.0100	0.01	1.4e−01	0
	−2.7503e+02	3.0666e−01	−7.4861e+01	3.5295e+02	−2.7915e+01	1.7291e+00	−1.0408e+02	−2.7596e+02
^{101}Nb	$(n\gamma)^{102}$Nb	5.4760e+00	0.5	1.0	0.0100	0.01	6.1e−04	
	3.8986e+01	−6.1062e−02	9.5641e+00	−3.4131e+01	2.9034e+00	−2.9048e−01	1.1510e+01	6.2272e+01
	1.23 1.58	1.91 2.16	2.28 2.33	2.33 2.30	2.24 2.19	1.57 1.14	0.83 0.38	0.13 0.04
^{102}Nb	$(n\gamma)^{103}$Nb	7.0430e+00	1.0	2.5	0.0100	0.01	5.4e−04	0
	3.0000e+01	9.4443e−02	−4.8153e+00	−9.1268e+00	1.4359e+00	−1.9222e−01	−5.9385e−01	5.2998e+01
^{103}Nb	$(n\gamma)^{104}$Nb	4.9800e+00	2.5	1.0	0.0100	0.01	1.4e−03	0
	3.5526e+01	−4.6630e−02	6.7615e+00	−2.9948e+01	3.6503e+00	−4.0775e−01	8.5683e+00	5.9910e+01
^{104}Nb	$(n\gamma)^{105}$Nb	6.6980e+00	1.0	2.5	0.0100	0.01	6.3e−04	0
	3.0651e+01	6.1907e−02	−1.9154e+00	−1.2686e+01	1.4407e+00	−1.8597e−01	1.6501e+00	5.3649e+01
^{105}Nb	$(n\gamma)^{106}$Nb	4.3230e+00	2.5	3.0	0.0100	0.01	8.4e−04	0
	2.8132e−02	1.1679e−01	−1.2731e+01	2.9173e+01	−1.8747e+00	4.5558e−03	−1.2279e+01	2.3566e+01
^{106}Nb	$(n\gamma)^{107}$Nb	5.8190e+00	3.0	0.5	0.0100	0.01	3.8e−04	0
	3.0134e+01	3.6629e−03	2.2095e+00	−1.7740e+01	1.7195e+00	−2.0391e−01	4.3711e+00	5.5078e+01
^{107}Nb	$(n\gamma)^{108}$Nb	4.0390e+00	0.5	2.0	0.0100	0.01	1.2e−03	0
	3.8936e+01	2.6862e−02	3.1668e+00	−2.9927e+01	3.1947e+00	−3.3759e−01	7.5628e+00	6.1711e+01
^{108}Nb	$(n\gamma)^{109}$Nb	5.5820e+00	2.0	2.5	0.0100	0.01	5.6e−04	0
	3.0700e+01	5.0796e−02	−1.2653e+00	−1.5327e+01	1.8422e+00	−2.2160e−01	2.1900e+00	5.4209e+01
^{109}Nb	$(n\gamma)^{110}$Nb	3.7320e+00	2.5	1.0	0.0100	0.01	5.6e−04	0
	3.4533e+01	−6.3567e−02	8.8260e+00	−3.2178e+01	3.0473e+00	−3.2006e−01	1.0401e+01	5.8918e+01
^{110}Nb	$(n\gamma)^{111}$Nb	4.8800e+00	1.0	2.5	0.0200	0.01	6.9e−04	0
	2.8655e+01	9.6718e−02	−4.7257e+00	−1.0357e+01	1.5015e+00	−1.9859e−01	−2.7976e−01	5.1654e+01
^{111}Nb	$(n\gamma)^{112}$Nb	2.9980e+00	2.5	0.0	0.0100	0.01	5.3e−04	0
	3.1138e+01	−2.8146e−02	5.5432e+00	−2.7578e+01	3.0356e+00	−3.3266e−01	7.7446e+00	5.6622e+01
^{112}Nb	$(n\gamma)^{113}$Nb	3.6410e+00	0.0	0.5	0.0700	0.01	8.9e−04	0
	2.1142e+01	2.1278e−01	−1.4817e+01	7.5332e+00	4.2657e−01	−1.4293e−01	−8.5380e+00	4.4141e+01
^{113}Nb	$(n\gamma)^{114}$Nb	2.7340e+00	0.5	4.0	0.0150	0.01	6.0e−04	0
	1.4419e+01	2.3869e−01	−1.8854e+01	1.6981e+01	5.1937e−02	−1.3542e−01	−1.2886e+01	3.6608e+01
^{114}Nb	$(n\gamma)^{115}$Nb	4.4280e+00	4.0	3.5	0.0350	0.01	4.1e−04	0
	2.6836e+01	5.4495e−02	−2.4880e+00	−1.1903e+01	1.6802e+00	−2.1600e−01	6.5264e−01	5.0647e+01
^{115}Nb	$(n\gamma)^{116}$Nb	2.8950e+00	3.5	4.0	0.0100	0.01	6.0e−04	0
	2.1282e+01	4.8776e−03	9.5586e−01	−1.1117e+01	1.3359e+00	−2.0582e−01	2.3650e+00	4.4857e+01
^{116}Nb	$(n\gamma)^{117}$Nb	4.1660e+00	4.0	3.5	0.0450	0.01	1.3e−04	0
	2.6878e+01	−2.2447e−02	3.9563e+00	−1.8652e+01	1.5821e+00	−1.8573e−01	5.3447e+00	5.0689e+01
^{117}Nb	$(n\gamma)^{118}$Nb	2.7150e+00	3.5	2.0	0.0150	0.01	4.7e−04	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.9123e+01	−3.5881e−03	1.4190e+00	−1.0008e+01	1.1928e+00	−1.9381e−01	2.4202e+00	4.3286e+01
^{118}Nb	(nγ)^{119}Nb	3.7760e+00	2.0	3.5	0.0950	0.01	9.7e−05	0
	2.8952e+01	−5.1267e−03	3.5617e+00	−2.1000e+01	1.7820e+00	−1.9288e−01	5.8411e+00	5.2175e+01
^{119}Nb	(nγ)^{120}Nb	2.3190e+00	3.5	4.0	0.0350	0.01	3.1e−04	0
	1.8567e+01	−1.7817e−02	2.4520e+00	−1.1856e+01	1.4450e+00	−2.1154e−01	3.1718e+00	4.2143e+01
^{120}Nb	(nγ)^{121}Nb	3.2080e+00	4.0	3.5	0.2550	0.01	1.1e−05	0
	2.5118e+01	−5.9065e−02	6.8378e+00	−2.1074e+01	1.6543e+00	−1.8319e−01	7.2891e+00	4.8929e+01
^{121}Nb	(nγ)^{122}Nb	3.7530e+00	3.5	4.0	0.0550	0.01	5.4e−05	0
	2.7598e+01	−4.6690e−02	6.3567e+00	−2.3783e+01	2.0048e+00	−2.1088e−01	7.5299e+00	5.1174e+01
^{122}Nb	(nγ)^{123}Nb	3.3610e+00	4.0	0.5	0.1800	0.01	6.7e−05	0
	2.2155e+01	−6.6977e−02	7.1515e+00	−2.0637e+01	1.9957e+00	−2.2730e−01	7.2566e+00	4.7353e+01
^{123}Nb	(nγ)^{124}Nb	8.1000e−02	0.5	5.0	n.c.	0.01	3.2e−03	0
	6.3420e+00	−2.6035e−01	2.3502e+01	−2.9888e+01	1.5162e+00	−1.7328e−01	1.8419e+01	2.8331e+01
^{124}Nb	(nγ)^{125}Nb	1.2380e+00	5.0	4.5	n.c.	0.01	8.7e−06	0
	2.0607e+01	−8.3724e−02	8.3230e+00	−2.5072e+01	2.6539e+00	−2.6864e−01	8.3247e+00	4.4396e+01
^{126}Nb	(nγ)^{127}Nb	8.6100e−01	2.0	0.5	n.c.	0.01	5.3e−04	0
	1.5219e+01	−1.5161e−02	2.0465e+00	−1.6622e+01	2.8661e+00	−3.3298e−01	3.2924e+00	3.9829e+01
^{128}Nb	(nγ)^{129}Nb	1.6100e−01	1.0	1.5	n.c.	0.01	3.7e−04	0
	−1.4826e+01	1.2305e−01	−1.3556e+01	2.9516e+01	−9.7863e−01	−9.1745e−02	−1.2996e+01	8.5808e+00
^{130}Nb	(nγ)^{131}Nb	8.6300e−01	1.0	1.5	n.c.	0.01	6.8e−04	0
	−3.4262e+00	2.8639e−01	−2.6313e+01	3.4655e+01	−2.1881e−01	−1.7723e−01	−2.0979e+01	1.9980e+01
^{132}Nb	(nγ)^{133}Nb	6.6200e−01	0.0	1.5	n.c.	0.01	4.8e−04	0
	−1.9885e+01	4.1029e−01	−3.9259e+01	6.6015e+01	−2.6351e+00	−2.3087e−02	−3.3412e+01	2.4233e+00
^{134}Nb	(nγ)^{135}Nb	4.3800e−01	2.0	1.5	n.c.	0.01	1.7e−03	0
	−8.8463e+00	2.0667e−01	−1.9823e+01	3.1962e+01	−6.4953e−01	−1.4811e−01	−1.6784e+01	1.5071e+01
^{136}Nb	(nγ)^{137}Nb	2.0300e−01	3.0	2.5	n.c.	0.01	5.8e−04	0
	−1.8332e+01	6.8609e−02	−1.0012e+01	3.0138e+01	−1.4914e+00	−7.0975e−02	−1.1340e+01	5.5167e+00
^{89}Mo	(np)^{89}Nb	6.3570e+00	4.5	4.5	0.0100	0.01	3.6e−05	
	2.2712e+01	6.4318e−02	−1.9008e+00	−5.4951e−01	2.1062e−01	−3.4916e−02	−1.4346e−01	2.2712e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.02 0.97	0.84 0.71
^{89}Mo	(nα)^{86}Zr	8.4480e+00	4.5	0.0	0.0100	0.01	1.7e−04	0
	1.9881e+01	−1.7827e−01	1.0532e+01	−2.0069e+01	1.6377e+00	−5.6324e−02	9.2789e+00	2.0849e+01
^{90}Mo	(np)^{90}Nb	3.2720e+00	0.0	8.0	0.0100	0.01	1.4e−03	
	3.2554e+01	5.3778e−02	2.5259e−01	−1.9743e+01	4.2321e+00	−4.4002e−01	3.6949e+00	2.9721e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.10 1.51	2.19 3.65	3.57 2.70
^{90}Mo	(nα)^{87}Zr	4.8270e+00	0.0	4.5	0.0100	0.01	1.8e−02	0
	−5.3704e+01	5.3608e−01	−5.8439e+01	1.1520e+02	−2.0339e+00	−2.1721e−01	−5.2388e+01	−5.7342e+01
^{91}Mo	(np)^{91}Nb	5.2160e+00	4.5	4.5	0.0100	0.01	3.4e−04	
	1.6788e+01	1.1906e−01	−7.6677e+00	1.0538e+01	−2.9513e−01	−1.4962e−02	−5.4128e+00	1.6788e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.04 0.96	0.81 0.72
^{91}Mo	(nα)^{88}Zr	7.0660e+00	4.5	0.0	0.0100	0.01	2.1e−03	0
	2.6059e+01	−9.8683e−02	6.1430e+00	−2.7354e+01	4.3602e+00	−3.4654e−01	7.9422e+00	2.7026e+01
^{92}Mo	(nγ)^{93}Mo	8.0700e+00	0.0	2.5	0.0100	0.01	2.7e−04	
	3.2379e+01	−2.3858e−02	4.5915e+00	−2.3464e+01	3.6290e+00	−4.0358e−01	6.4282e+00	5.4277e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.02	1.07 1.09	0.66 0.26
^{92}Mo	(np)^{92}Nb	4.2700e−01	0.0	7.0	0.0100	0.01	1.2e−02	0
	8.1592e+01	−6.2880e−01	9.5283e+01	−1.8916e+02	1.0650e+01	−6.8445e−01	9.7972e+01	7.8884e+01
^{92}Mo	(nα)^{89}Zr	3.7100e+00	0.0	4.5	0.0100	0.01	2.6e−02	0
	−1.5385e+02	6.7945e−01	−1.0181e+02	2.6093e+02	−1.2603e+01	4.0034e−01	−1.0309e+02	−1.5749e+02
^{93}Mo	(nγ)^{94}Mo	9.6780e+00	2.5	0.0	0.0150	0.01	1.4e−03	
	1.3162e+01	1.1000e−01	−9.7682e+00	1.4160e+01	1.3847e−01	−1.5736e−01	−7.7956e+00	3.8644e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.96 0.60	0.23 0.08
^{93}Mo	(np)^{93}Nb	1.1880e+00	2.5	4.5	0.0150	0.01	2.1e−04	0
	−5.7674e+01	3.4088e−01	−3.6839e+01	1.0402e+02	−5.0642e+00	1.2969e−01	−3.8079e+01	−5.8185e+01
^{93}Mo	(nα)^{90}Zr	7.6110e+00	2.5	0.0	0.0150	0.01	1.1e−03	
	6.7653e+00	−9.6881e−02	−1.6341e+00	7.9249e+00	−2.9170e−01	6.0448e−02	−2.9433e+00	7.2199e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.09	1.25 1.60	2.74 5.74
^{94}Mo	(nγ)^{95}Mo	7.3690e+00	0.0	2.5	0.0100	0.01	4.5e−04	
	1.7362e+01	4.1449e−02	−3.7402e+00	2.1178e+00	1.2855e+00	−2.5243e−01	−2.7010e+00	3.9260e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.07	1.12 0.91	0.41 0.14
^{94}Mo	(nα)^{91}Zr	5.1280e+00	0.0	2.5	0.0100	0.01	2.2e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−8.7055e+00	2.0870e−01	−1.9778e+01	3.1242e+01	2.1192e+00	−3.3249e−01	−1.6774e+01	−1.1835e+01
^{95}Mo	(nγ)^{96}Mo	9.1540e+00	2.5	0.0	0.0100	0.01	4.8e−04	
	2.5951e+01	1.5329e−03	1.0342e+00	−1.0735e+01	1.7990e+00	−2.5276e−01	2.2638e+00	5.1433e+01
	1.00 1.00	1.00 1.00	0.99 0.99	0.98 0.97	0.96 0.95	0.88 0.83	0.77 0.51	0.22 0.08
^{95}Mo	(nα)^{92}Zr	6.3930e+00	2.5	0.0	0.0100	0.01	2.8e−04	0
	5.4967e+01	−2.2670e−01	2.5259e+01	−7.9237e+01	8.5842e+00	−6.1513e−01	2.7053e+01	5.5420e+01
^{96}Mo	(nγ)^{97}Mo	6.8210e+00	0.0	2.5	0.0100	0.01	5.2e−04	
	1.2660e+01	6.9969e−02	−6.9167e+00	1.0683e+01	5.6578e−01	−2.1546e−01	−5.9161e+00	3.4558e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.07	1.08 0.77	0.30 0.08
^{96}Mo	(nα)^{93}Zr	3.9730e+00	0.0	2.5	0.0100	0.01	9.1e−03	0
	−9.8844e+01	7.4523e−01	−7.8997e+01	1.8166e+02	−7.3745e+00	1.4601e−01	−7.5437e+01	−1.0197e+02
^{97}Mo	(nγ)^{98}Mo	8.6430e+00	2.5	0.0	0.0100	0.01	1.2e−04	
	1.5121e+01	2.9121e−02	−3.1775e+00	5.9128e+00	−5.6659e−02	−1.0767e−01	−2.9290e+00	4.0604e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.94 0.79	0.64 0.35	0.14 0.04
^{97}Mo	(nα)^{94}Zr	5.3730e+00	2.5	0.0	0.0100	0.01	6.3e−04	0
	6.7938e+01	−2.7062e−01	3.3054e+01	−1.0844e+02	1.2877e+01	−1.0366e+00	3.6189e+01	6.8390e+01
^{98}Mo	(nγ)^{99}Mo	5.9250e+00	0.0	0.5	0.0100	0.01	8.9e−04	
	3.9546e+00	1.1161e−01	−1.1814e+01	2.4920e+01	−6.7922e−01	−1.3695e−01	−1.1073e+01	2.6952e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.06	1.03 0.61	0.20 0.05
^{98}Mo	(nα)^{95}Zr	3.1920e+00	0.0	2.5	0.0100	0.01	1.3e−02	0
	−2.2352e+02	1.3537e+00	−1.4996e+02	3.8480e+02	−2.2781e+01	1.0919e+00	−1.4960e+02	−2.2665e+02
^{99}Mo	(nγ)^{100}Mo	8.2900e+00	0.5	0.0	0.0100	0.01	1.4e−04	
	1.7669e+01	1.2277e−02	−1.1853e+00	3.7406e−01	2.6182e−01	−1.2353e−01	−8.5086e−01	4.2053e+01
	1.00 1.00	1.00 1.02	1.04 1.06	1.08 1.09	1.11 1.12	1.16 1.08	0.92 0.50	0.19 0.06
^{99}Mo	(nα)^{96}Zr	5.1220e+00	0.5	0.0	0.0100	0.01	2.9e−03	0
	8.0291e+01	−3.2811e−01	4.0909e+01	−1.3061e+02	1.4293e+01	−1.0617e+00	4.4296e+01	7.9644e+01
^{100}Mo	(nγ)^{101}Mo	5.3990e+00	0.0	0.5	0.0100	0.01	3.4e−04	
	1.7144e+01	9.7687e−03	−1.1065e+00	−1.0791e+00	1.2240e+00	−2.5725e−01	−7.4084e−01	4.0142e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.05	1.04 0.70	0.24 0.06
^{100}Mo	(nα)^{97}Zr	2.4120e+00	0.0	0.5	0.0100	0.01	7.2e−02	0
	−3.1201e+02	1.2886e+00	−1.5987e+02	4.8433e+02	−3.3442e+01	1.9245e+00	−1.7298e+02	−3.1405e+02
^{101}Mo	(nγ)^{102}Mo	8.1170e+00	0.5	0.0	0.0150	0.01	3.2e−04	
	3.0718e+01	−4.6031e−02	5.7159e+00	−2.2116e+01	2.5451e+00	−3.0157e−01	6.6656e+00	5.5102e+01
	1.03 1.10	1.16 1.21	1.25 1.27	1.29 1.29	1.30 1.29	1.27 1.23	1.14 0.73	0.28 0.08
^{101}Mo	(nα)^{98}Zr	3.4000e+00	0.5	0.0	0.0150	0.01	1.4e−02	0
	−8.2379e+01	7.7071e−01	−7.4904e+01	1.4971e+02	−2.6584e+00	−2.3165e−01	−6.7923e+01	−8.3027e+01
^{102}Mo	(nγ)^{103}Mo	5.3630e+00	0.0	1.5	0.0100	0.01	4.6e−04	
	3.0339e+01	−9.9102e−02	1.0131e+01	−2.7803e+01	3.2210e+00	−3.8629e−01	9.9586e+00	5.2643e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.02 1.03	1.05 1.06	1.21 1.34	1.36 0.97	0.34 0.07
^{103}Mo	(nγ)^{104}Mo	7.5550e+00	1.5	0.0	0.0200	0.01	3.4e−04	
	2.2754e+01	6.4398e−03	1.9046e−01	−7.6121e+00	1.3495e+00	−2.2709e−01	1.2250e+00	4.7832e+01
	1.00 1.00	1.00 0.99	0.98 0.98	0.97 0.97	0.97 0.97	0.92 0.85	0.74 0.41	0.14 0.04
^{103}Mo	(nα)^{100}Zr	1.4010e+00	1.5	0.0	0.0200	0.01	7.8e−02	0
	−2.8559e+02	−2.4925e+00	3.0536e+01	2.5363e+02	−2.9976e+01	2.1879e+00	−2.8713e+01	−2.8555e+02
^{104}Mo	(nγ)^{105}Mo	5.0780e+00	0.0	2.5	0.0100	0.01	4.3e−04	0
	2.9151e+01	−7.9957e−02	8.4905e+00	−2.5516e+01	3.1892e+00	−3.9650e−01	8.6835e+00	5.1050e+01
^{105}Mo	(nγ)^{106}Mo	6.9880e+00	2.5	0.0	0.0250	0.01	5.9e−04	0
	1.8608e+01	3.6870e−02	−3.0960e+00	−1.8466e−01	9.0549e−01	−2.0971e−01	−1.9242e+00	4.4091e+01
^{106}Mo	(nγ)^{107}Mo	4.7550e+00	0.0	2.5	0.0100	0.01	7.4e−04	0
	2.5777e+01	−5.2801e−02	5.8310e+00	−1.9394e+01	2.6632e+00	−3.6346e−01	6.2275e+00	4.7677e+01
^{107}Mo	(nγ)^{108}Mo	5.9310e+00	2.5	0.0	0.0300	0.01	5.9e−04	0
	3.2781e+01	−9.0735e−02	1.0481e+01	−3.1030e+01	2.7177e+00	−3.0061e−01	1.1019e+01	5.8265e+01
^{108}Mo	(nγ)^{109}Mo	4.1590e+00	0.0	0.5	0.0150	0.01	2.0e−03	0
	3.0828e+01	−5.7032e−02	7.3365e+00	−2.8184e+01	3.9315e+00	−4.8984e−01	8.5822e+00	5.3827e+01
^{109}Mo	(nγ)^{110}Mo	6.2800e+00	0.5	0.0	0.0800	0.01	1.3e−03	0
	4.7446e+01	−1.2132e−01	1.6576e+01	−5.2287e+01	4.3991e+00	−4.1816e−01	1.8628e+01	7.1831e+01
^{110}Mo	(nγ)^{111}Mo	3.8070e+00	0.0	3.5	0.0100	0.01	3.4e−03	0
	4.0123e+01	−3.0594e−01	2.9522e+01	−6.0155e+01	4.3351e+00	−4.0817e−01	2.6295e+01	6.1736e+01
^{111}Mo	(nγ)^{112}Mo	5.5380e+00	3.5	0.0	0.1550	0.01	9.2e−04	0
	1.8987e+01	−3.5077e−02	3.3214e+00	−9.3073e+00	1.1388e+00	−2.2147e−01	3.1752e+00	4.4758e+01
^{112}Mo	(nγ)^{113}Mo	2.4300e+00	0.0	2.5	0.0350	0.01	3.1e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	4.9865e+01	−3.5034e−01	3.5261e+01	−7.8429e+01	6.0313e+00	−5.3065e−01	3.2667e+01	7.1765e+01
^{113}Mo	$(n\gamma)^{114}$Mo	5.4100e+00	2.5	0.0	0.3000	0.01	8.0e−04	0
	2.8081e+01	1.7312e−02	1.2282e+00	−1.7043e+01	1.8363e+00	−2.3895e−01	3.7622e+00	5.3565e+01
^{114}Mo	$(n\gamma)^{115}$Mo	3.1190e+00	0.0	0.5	0.0200	0.01	1.7e−03	0
	1.1964e+01	−6.3613e−02	4.8483e+00	−5.1029e+00	5.6215e−01	−1.8851e−01	3.2942e+00	3.4963e+01
^{115}Mo	$(n\gamma)^{116}$Mo	5.0950e+00	0.5	0.0	0.3100	0.01	1.5e−03	0
	3.8254e+01	−1.3509e−02	6.6875e+00	−3.3816e+01	3.2262e+00	−3.5068e−01	1.0208e+01	6.2640e+01
^{116}Mo	$(n\gamma)^{117}$Mo	2.9580e+00	0.0	2.5	0.0450	0.01	5.1e−04	0
	1.2788e+01	−1.4534e−02	1.5551e+00	−3.5943e+00	8.7722e−01	−2.2923e−01	1.4665e+00	3.4689e+01
^{117}Mo	$(n\gamma)^{118}$Mo	4.7600e+00	2.5	0.0	0.5250	0.01	9.8e−04	0
	2.1938e+01	−4.9500e−02	5.6486e+00	−1.6041e+01	1.5297e+00	−2.3754e−01	5.8339e+00	4.7422e+01
^{118}Mo	$(n\gamma)^{119}$Mo	2.7980e+00	0.0	1.5	0.0900	0.01	3.7e−04	0
	8.5625e+00	1.7265e−02	−1.9287e+00	4.0497e+00	4.0887e−01	−1.9979e−01	−1.8680e+00	3.0869e+01
^{119}Mo	$(n\gamma)^{120}$Mo	4.4130e+00	1.5	0.0	0.9150	0.01	3.7e−04	0
	1.4789e+00	6.8595e−03	−3.0565e+00	1.4436e+01	−1.0646e+00	−5.7488e−02	−4.5514e+00	2.6558e+01
^{120}Mo	$(n\gamma)^{121}$Mo	2.4510e+00	0.0	0.5	0.2250	0.01	5.2e−04	0
	5.3359e−01	6.8302e−02	−7.6686e+00	1.7326e+01	−3.9127e−01	−1.5075e−01	−7.4806e+00	2.3534e+01
^{121}Mo	$(n\gamma)^{122}$Mo	3.8380e+00	0.5	0.0	1.8400	0.01	4.0e−04	0
	−1.8296e+01	1.4744e−01	−1.7799e+01	5.1101e+01	−3.8751e+00	1.3093e−01	−1.8845e+01	6.0909e+00
^{122}Mo	$(n\gamma)^{123}$Mo	3.7880e+00	0.0	5.5	0.3750	0.01	4.1e−03	0
	−2.9716e+01	1.8647e−01	−2.2463e+01	6.8203e+01	−5.6634e+00	2.7910e−01	−2.4126e+01	−8.5074e+00
^{123}Mo	$(n\gamma)^{124}$Mo	4.1830e+00	5.5	0.0	1.2950	0.01	5.4e−04	0
	3.6833e+01	−1.5151e−01	1.6464e+01	−5.0498e+01	5.8679e+00	−5.8663e−01	1.7093e+01	6.3012e+01
^{124}Mo	$(n\gamma)^{125}$Mo	1.3000e−01	0.0	3.5	n.c.	0.01	2.3e−03	0
	7.8698e+00	−3.3040e−02	3.9895e+00	−1.3450e+01	3.9200e+00	−5.5473e−01	4.3265e+00	2.9484e+01
^{125}Mo	$(n\gamma)^{126}$Mo	1.6850e+00	3.5	0.0	n.c.	0.01	3.0e−04	0
	1.8995e+01	1.2238e−02	1.7480e+00	−1.8795e+01	3.2424e+00	−3.9007e−01	4.2715e+00	4.4768e+01
^{127}Mo	$(n\gamma)^{128}$Mo	1.2530e+00	1.5	0.0	n.c.	0.01	5.6e−04	0
	−7.2034e+00	4.3701e−02	−6.9262e+00	1.9565e+01	−9.4410e−01	−8.3503e−02	−7.8600e+00	1.7877e+01
^{129}Mo	$(n\gamma)^{130}$Mo	1.1900e+00	1.5	0.0	n.c.	0.01	1.2e−03	0
	2.5253e+01	−6.3649e−02	7.5699e+00	−3.2928e+01	4.2188e+00	−4.5848e−01	9.0733e+00	5.0333e+01
^{131}Mo	$(n\gamma)^{132}$Mo	1.3170e+00	0.5	0.0	n.c.	0.01	2.3e−03	0
	1.4431e+01	7.3839e−02	−5.3249e+00	−5.3295e+00	2.1087e+00	−3.3857e−01	−2.3874e+00	3.8819e+01
^{133}Mo	$(n\gamma)^{134}$Mo	1.1780e+00	1.5	0.0	n.c.	0.01	3.0e−03	0
	2.3408e+00	8.5782e−02	−8.1707e+00	1.0498e+01	4.7628e−01	−2.3037e−01	−6.6418e+00	2.7422e+01
^{135}Mo	$(n\gamma)^{136}$Mo	9.2800e−01	1.5	0.0	n.c.	0.01	3.5e−03	0
	−3.7829e+00	1.1325e−01	−1.1411e+01	1.9411e+01	−1.2762e−01	−2.0083e−01	−1.0011e+01	2.1298e+01
^{137}Mo	$(n\gamma)^{138}$Mo	7.4500e−01	2.5	0.0	n.c.	0.01	3.8e−03	0
	−2.7322e+01	1.9489e−01	−2.2088e+01	5.3347e+01	−2.5530e+00	−6.8844e−02	−2.1931e+01	−1.8352e+00
^{139}Mo	$(n\gamma)^{140}$Mo	5.5200e−01	2.5	0.0	n.c.	0.01	1.2e−02	0
	−2.4073e+01	2.5691e−01	−2.6684e+01	5.2918e+01	−1.4687e+00	−1.9637e−01	−2.4486e+01	1.4138e+00
^{93}Tc	$(n\gamma)^{94}$Tc	8.6230e+00	4.5	7.0	0.0100	0.01	6.2e−05	
	2.9541e+01	1.1188e−03	2.1208e+00	−1.5249e+01	2.2345e+00	−2.6335e−01	3.9001e+00	5.2826e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.98	0.94 0.77	0.45 0.19
^{93}Tc	$(np)^{93}$Mo	3.9830e+00	4.5	2.5	0.0100	0.01	1.6e−03	0
	4.1294e+01	−5.9021e−02	1.1052e+01	−4.0128e+01	4.5634e+00	−3.5620e−01	1.3156e+01	4.1804e+01
^{93}Tc	$(n\alpha)^{90}$Nb	4.7010e+00	4.5	8.0	0.0100	0.01	1.5e−02	0
	−1.6445e+01	3.2567e−01	−3.3713e+01	4.7635e+01	3.5579e+00	−5.7799e−01	−2.7304e+01	−1.8313e+01
^{94}Tc	$(n\gamma)^{95}$Tc	9.9330e+00	7.0	4.5	0.0100	0.01	2.7e−04	
	2.2589e+01	6.9621e−02	−4.5520e+00	2.1066e−02	8.0934e−01	−1.5515e−01	−2.2335e+00	4.6684e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.96 0.95	0.94 0.94	0.88 0.81	0.73 0.47	0.23 0.10
^{94}Tc	$(np)^{94}$Mo	5.0380e+00	7.0	0.0	0.0100	0.01	1.3e−03	0
	7.3202e+01	−3.3142e−01	4.1467e+01	−1.0524e+02	7.8186e+00	−5.0024e−01	4.2234e+01	7.5910e+01
^{94}Tc	$(n\alpha)^{91}$Nb	8.1300e+00	7.0	4.5	0.0100	0.01	3.7e−05	
	2.5242e+01	−1.0764e−01	7.4941e+00	−2.0396e+01	1.9294e+00	−9.8593e−02	7.6049e+00	2.4310e+01
	1.00 1.01	1.03 1.07	1.11 1.16	1.19 1.22	1.25 1.28	1.47 1.59	1.74 2.34	3.63 5.89
^{95}Tc	$(n\gamma)^{96}$Tc	7.8720e+00	4.5	7.0	0.0100	0.01	3.1e−05	
	1.9182e+01	5.7307e−02	−4.2489e+00	3.3734e+00	2.9470e−01	−1.1652e−01	−2.7229e+00	4.2466e+01
	1.00 1.00	1.00 0.99	0.98 0.98	0.98 0.97	0.97 0.97	0.92 0.84	0.73 0.47	0.23 0.09
^{95}Tc	$(np)^{95}$Mo	2.4730e+00	4.5	2.5	0.0100	0.01	6.5e−04	0
	3.1231e+01	−3.1186e−02	8.6786e+00	−3.0924e+01	3.6045e+00	−2.5972e−01	1.0730e+01	3.1742e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{95}Tc	(nα)^{92}Nb	6.0790e+00	4.5	7.0	0.0100	0.01	9.6e−04	
	3.5543e+01	−1.0273e−01	9.5187e+00	−4.2737e+01	6.6881e+00	−5.6442e−01	1.2218e+01	3.3799e+01
	1.00 1.00	1.01 1.01	1.01 1.01	1.01 1.02	1.02 1.03	1.29 2.32	4.71 15.98	34.83 53.56
^{96}Tc	(nγ)^{97}Tc	9.4740e+00	7.0	4.5	0.0100	0.01	6.1e−05	
	2.4750e+01	5.5045e−02	−3.1226e+00	−3.7891e+00	9.7744e−01	−1.5716e−01	−8.4646e−01	4.8846e+01
	1.01 0.99	0.95 0.93	0.91 0.88	0.87 0.85	0.84 0.82	0.68 0.58	0.50 0.33	0.17 0.07
^{96}Tc	(np)^{96}Mo	3.7550e+00	7.0	0.0	0.0100	0.01	4.2e−03	0
	1.4758e+01	4.6177e−01	−3.1227e+01	2.9894e+01	−4.8944e−01	3.2233e−02	−1.9501e+01	1.7466e+01
^{96}Tc	(nα)^{93}Nb	7.0380e+00	7.0	4.5	0.0100	0.01	1.2e−03	
	6.9825e+01	−3.7137e−01	3.4759e+01	−1.0279e+02	1.0033e+01	−7.0704e−01	3.6517e+01	6.8891e+01
	1.05 1.23	1.33 1.39	1.43 1.46	1.48 1.49	1.50 1.50	1.53 1.82	2.71 8.01	18.09 21.97
^{97}Tc	(nγ)^{98}Tc	7.2790e+00	4.5	6.0	0.0100	0.01	1.4e−04	
	2.2843e+01	4.3702e−02	−2.4354e+00	−2.6235e+00	8.3922e−01	−1.6726e−01	−6.7061e−01	4.6271e+01
	1.00 1.00	1.00 0.99	1.00 0.99	0.98 0.98	0.97 0.96	0.87 0.77	0.66 0.40	0.17 0.06
^{97}Tc	(np)^{97}Mo	1.1030e+00	4.5	2.5	0.0100	0.01	1.5e−03	0
	−3.1377e+01	6.1977e−02	−8.3752e+00	4.3168e+01	−1.0095e+00	−1.0530e−01	−1.1786e+01	−3.0866e+01
^{97}Tc	(nα)^{94}Nb	4.7920e+00	4.5	6.0	0.0100	0.01	6.4e−03	0
	2.0721e+01	5.9575e−02	−5.6659e+00	−1.9789e+01	7.8260e+00	−8.0669e−01	−2.9222e−01	1.9119e+01
^{98}Tc	(nγ)^{99}Tc	8.9670e+00	6.0	4.5	0.0100	0.01	7.3e−06	
	1.4929e+01	8.9755e−02	−7.5832e+00	1.2402e+01	−8.0827e−01	−2.1877e−02	−5.9904e+00	3.8882e+01
	1.02 1.00	0.98 0.97	0.96 0.95	0.94 0.94	0.93 0.92	0.84 0.70	0.56 0.30	0.13 0.05
^{98}Tc	(np)^{98}Mo	2.4670e+00	6.0	0.0	0.0100	0.01	1.9e−03	0
	8.8113e+01	−2.5783e−01	4.2525e+01	−1.3283e+02	1.1885e+01	−8.5346e−01	4.9137e+01	9.0678e+01
^{98}Tc	(nα)^{95}Nb	6.0010e+00	6.0	4.5	0.0100	0.01	2.8e−03	0
	8.0341e+01	−4.5601e−01	4.5074e+01	−1.3007e+02	1.2869e+01	−8.9525e−01	4.6680e+01	7.9264e+01
^{99}Tc	(nγ)^{100}Tc	6.7640e+00	4.5	1.0	0.0100	0.01	3.8e−04	
	2.1561e+01	3.0309e−02	−1.9393e+00	−2.0898e+00	7.6493e−01	−1.7107e−01	−7.1926e−01	4.6456e+01
	1.00 1.00	1.00 0.99	0.99 0.97	0.96 0.94	0.93 0.92	0.80 0.69	0.58 0.32	0.12 0.04
^{99}Tc	(nα)^{96}Nb	3.9270e+00	4.5	6.0	0.0100	0.01	1.9e−02	0
	−7.0802e+01	6.9382e−01	−7.0538e+01	1.3925e+02	−2.3807e+00	−2.6008e−01	−6.3389e+01	−7.2405e+01
^{100}Tc	(nγ)^{101}Tc	8.3910e+00	1.0	4.5	0.0100	0.01	7.9e−04	
	3.5097e+01	8.4553e−03	2.9697e+00	−2.1307e+01	2.1802e+00	−2.4030e−01	5.7488e+00	5.7583e+01
	1.00 1.00	1.00 1.00	0.98 0.96	0.92 0.87	0.82 0.78	0.57 0.50	0.43 0.26	0.12 0.04
^{100}Tc	(np)^{100}Mo	9.5000e−01	1.0	0.0	0.0100	0.01	5.7e−04	0
	−6.0839e+01	3.2206e−01	−3.4415e+01	9.9373e+01	−5.1516e+00	2.0267e−01	−3.5665e+01	−5.9741e+01
^{100}Tc	(nα)^{97}Nb	5.2370e+00	1.0	4.5	0.0100	0.01	1.3e−02	0
	1.3897e+02	−1.0332e+00	1.0277e+02	−2.5837e+02	2.2878e+01	−1.6217e+00	1.0021e+02	1.3643e+02
^{101}Tc	(nγ)^{102}Tc	6.3030e+00	4.5	1.0	0.0100	0.01	2.2e−04	
	1.4097e+01	2.4590e−02	−3.2209e+00	6.6919e+00	−8.9882e−02	−1.1396e−01	−3.2389e+00	3.8992e+01
	0.94 0.90	0.88 0.88	0.87 0.87	0.86 0.86	0.86 0.85	0.77 0.66	0.54 0.28	0.10 0.03
^{101}Tc	(nα)^{98}Nb	2.8370e+00	4.5	1.0	0.0100	0.01	2.0e−02	0
	−2.9313e+02	1.7264e+00	−1.9288e+02	4.9684e+02	−2.9795e+01	1.4513e+00	−1.9276e+02	−2.9326e+02
^{102}Tc	(nγ)^{103}Tc	8.1030e+00	1.0	2.5	0.0100	0.01	5.5e−05	
	2.1731e+01	−2.1563e−02	2.4145e+00	−5.7678e+00	1.1184e−01	−6.8230e−02	2.3880e+00	4.4729e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.97	0.96 0.95	0.81 0.63	0.47 0.23	0.09 0.03
^{102}Tc	(nα)^{99}Nb	3.4060e+00	1.0	4.5	0.0100	0.01	1.7e−02	0
	−9.5399e+01	1.9629e−01	−3.5715e+01	1.2690e+02	−5.6193e+00	1.4265e−01	−4.2816e+01	−9.7945e+01
^{103}Tc	(nγ)^{104}Tc	5.9600e+00	2.5	3.0	0.0100	0.01	3.4e−04	
	1.2998e+01	9.5646e−02	−9.0230e+00	1.3322e+01	−1.2103e−01	−1.3314e−01	−7.4480e+00	3.6535e+01
	1.00 0.97	0.94 0.92	0.90 0.89	0.88 0.88	0.87 0.88	0.91 0.89	0.77 0.42	0.14 0.04
^{103}Tc	(nα)^{100}Nb	9.8600e−01	2.5	1.0	0.0100	0.01	1.8e−02	0
	−3.0688e+02	−1.4588e+01	1.0469e+02	2.0182e+02	−2.4115e+01	1.5791e+00	1.9569e+00	−3.0753e+02
^{104}Tc	(nγ)^{105}Tc	7.8730e+00	3.0	1.5	0.0100	0.01	3.1e−04	
	3.0432e+01	5.4944e−02	−1.8258e+00	−1.1417e+01	1.3810e+00	−1.8458e−01	1.3463e+00	5.4683e+01
	1.25 1.45	1.52 1.51	1.45 1.39	1.31 1.23	1.18 1.11	0.74 0.55	0.41 0.20	0.08 0.03
^{104}Tc	(nα)^{101}Nb	2.1010e+00	3.0	0.5	0.0100	0.01	4.3e−02	0
	−3.5993e+02	1.1466e+00	−1.6124e+02	5.3392e+02	−3.9679e+01	2.4032e+00	−1.8190e+02	−3.6002e+02
^{105}Tc	(nγ)^{106}Tc	5.5580e+00	1.5	1.0	0.0100	0.01	9.3e−04	
	2.0155e+01	9.6196e−02	−7.7591e+00	2.8226e+00	1.3855e+00	−2.7186e−01	−4.9908e+00	4.4134e+01
	1.00 0.99	0.96 0.91	0.87 0.82	0.80 0.77	0.76 0.76	0.78 0.83	0.83 0.54	0.18 0.05
^{106}Tc	(nγ)^{107}Tc	7.3950e+00	1.0	1.5	0.0100	0.01	4.2e−04	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	2.1646e+01	1.7974e−01	−1.3347e+01	9.3719e+00	1.9022e−01	−1.2138e−01	−8.4251e+00	4.5050e+01
^{107}Tc	(nγ)^{108}Tc	4.9060e+00	1.5	2.0	0.0100	0.01	7.5e−04	0
	2.6537e+01	−7.2217e−02	7.6235e+00	−1.8735e+01	1.4903e+00	−2.1553e−01	7.3771e+00	5.0006e+01
^{108}Tc	(nγ)^{109}Tc	6.6730e+00	2.0	2.5	0.0100	0.01	5.0e−04	0
	2.6498e+01	1.2791e−01	−8.2789e+00	−9.2836e−01	8.6589e−01	−1.6460e−01	−3.8904e+00	5.0008e+01
^{109}Tc	(nγ)^{110}Tc	4.8430e+00	2.5	2.0	0.0100	0.01	3.9e−04	0
	2.3687e+01	3.6199e−03	9.8839e−01	−8.4980e+00	5.7959e−01	−1.2379e−01	2.0976e+00	4.7561e+01
^{110}Tc	(nγ)^{111}Tc	6.4550e+00	2.0	2.5	0.0100	0.01	4.1e−04	0
	2.1178e+01	1.6284e−01	−1.2279e+01	8.2944e+00	1.1551e−01	−1.0961e−01	−7.8129e+00	4.4688e+01
^{111}Tc	(nγ)^{112}Tc	4.4290e+00	2.5	4.0	0.0100	0.01	8.0e−04	0
	3.2890e+01	−1.5855e−02	4.3733e+00	−2.3412e+01	2.3625e+00	−2.7774e−01	6.5318e+00	5.6177e+01
^{112}Tc	(nγ)^{113}Tc	5.9220e+00	4.0	2.5	0.0100	0.01	2.9e−04	0
	2.7882e+01	4.7392e−02	−1.8578e+00	−1.0590e+01	1.2108e+00	−1.6882e−01	9.3291e−01	5.1980e+01
^{113}Tc	(nγ)^{114}Tc	3.9050e+00	2.5	0.0	0.0100	0.01	8.1e−04	0
	3.3906e+01	−2.6685e−02	5.6270e+00	−2.7317e+01	2.7536e+00	−3.0656e−01	7.8699e+00	5.9390e+01
^{114}Tc	(nγ)^{115}Tc	5.4930e+00	0.0	2.5	0.0100	0.01	1.4e−04	0
	−5.3868e+00	4.5467e−01	−4.0866e+01	6.4972e+01	−3.2335e+00	7.0764e−02	−3.3265e+01	1.6514e+01
^{115}Tc	(nγ)^{116}Tc	3.7260e+00	2.5	3.0	0.0100	0.01	8.6e−04	0
	3.0938e+01	−4.7978e−02	6.8782e+00	−2.5596e+01	2.3968e+00	−2.8131e−01	8.2185e+00	5.4477e+01
^{116}Tc	(nγ)^{117}Tc	5.1520e+00	3.0	2.5	0.0150	0.01	4.5e−04	0
	3.0275e+01	1.1260e−02	1.7276e+00	−1.8250e+01	1.8516e+00	−2.2144e−01	4.1953e+00	5.4122e+01
^{117}Tc	(nγ)^{118}Tc	3.6250e+00	2.5	0.0	0.0100	0.01	7.1e−04	0
	2.7764e+01	−3.2503e−02	5.1673e+00	−2.0727e+01	1.9314e+00	−2.4272e−01	6.4679e+00	5.3249e+01
^{118}Tc	(nγ)^{119}Tc	4.8550e+00	0.0	2.5	0.0200	0.01	3.4e−04	0
	1.1179e+01	3.1980e−01	−2.5995e+01	3.0843e+01	−1.0224e+00	−5.5170e−02	−1.8885e+01	3.3080e+01
^{119}Tc	(nγ)^{120}Tc	3.3710e+00	2.5	3.0	0.0100	0.01	4.8e−04	0
	2.5624e+01	−3.1203e−02	4.7676e+00	−1.8609e+01	1.7441e+00	−2.2706e−01	5.8667e+00	4.9163e+01
^{120}Tc	(nγ)^{121}Tc	4.5260e+00	3.0	2.5	0.0400	0.01	6.2e−05	0
	3.0453e+01	−6.3143e−02	7.9446e+00	−2.6015e+01	2.0066e+00	−2.0758e−01	8.8435e+00	5.4300e+01
^{121}Tc	(nγ)^{122}Tc	3.0190e+00	2.5	2.0	0.0150	0.01	3.2e−04	0
	2.5965e+01	−2.9716e−02	4.9212e+00	−2.0549e+01	2.0515e+00	−2.4824e−01	6.2895e+00	4.9841e+01
^{122}Tc	(nγ)^{123}Tc	3.9350e+00	2.0	2.5	0.1100	0.01	4.2e−05	0
	3.4335e+01	−9.1449e−02	1.1320e+01	−3.3677e+01	2.4808e+00	−2.3083e−01	1.2193e+01	5.7847e+01
^{123}Tc	(nγ)^{124}Tc	4.3970e+00	2.5	4.0	0.0200	0.01	1.2e−04	0
	3.2538e+01	−6.1633e−03	4.1947e+00	−2.5623e+01	2.3839e+00	−2.3954e−01	6.9595e+00	5.5826e+01
^{124}Tc	(nγ)^{125}Tc	4.2850e+00	4.0	3.5	0.0750	0.01	2.2e−05	0
	1.7963e+01	−5.6981e−02	5.1862e+00	−1.1882e+01	9.1660e−01	−1.3551e−01	4.6209e+00	4.1774e+01
^{125}Tc	(nγ)^{126}Tc	7.0300e−01	3.5	0.0	0.2100	0.01	1.4e−04	0
	5.9455e+00	1.6676e−02	−1.9166e+00	−1.5929e+00	2.0179e+00	−3.0949e−01	−1.3278e+00	3.1719e+01
^{126}Tc	(nγ)^{127}Tc	1.7570e+00	0.0	4.5	2.8650	0.01	7.5e−05	0
	2.2816e+01	1.1360e−01	−7.2811e+00	−8.4564e+00	2.0937e+00	−2.4003e−01	−2.5966e+00	4.4207e+01
^{127}Tc	(nγ)^{128}Tc	1.7900e−01	4.5	0.0	n.c.	0.01	7.5e−05	0
	−1.8661e+01	5.6680e−02	−8.2214e+00	2.7818e+01	−9.5175e−01	−1.0272e−01	−9.6347e+00	7.3354e+00
^{128}Tc	(nγ)^{129}Tc	1.0630e+00	0.0	1.5	n.c.	0.01	1.9e−04	0
	1.6358e+01	1.3744e−01	−1.0463e+01	−9.8781e−01	1.9706e+00	−2.6851e−01	−5.9075e+00	3.8665e+01
^{130}Tc	(nγ)^{131}Tc	1.2700e+00	1.0	0.5	n.c.	0.01	2.5e−04	0
	5.6537e+00	2.2477e−01	−1.9903e+01	1.9767e+01	6.7404e−01	−2.0813e−01	−1.4884e+01	2.9753e+01
^{132}Tc	(nγ)^{133}Tc	1.2570e+00	0.0	2.5	n.c.	0.01	1.5e−04	0
	−1.8277e+01	4.1161e−01	−4.0204e+01	6.7662e+01	−2.7693e+00	−7.1932e−04	−3.4539e+01	3.6256e+00
^{133}Tc	(nγ)^{134}Tc	7.9000e−02	2.5	1.0	n.c.	0.01	7.2e−04	0
	−1.9618e+01	2.1637e−02	−4.6888e+00	2.6080e+01	−1.9297e+00	−2.3289e−02	−6.9704e+00	4.7696e+00
^{134}Tc	(nγ)^{135}Tc	1.3670e+00	1.0	2.5	n.c.	0.01	5.8e−04	0
	2.8866e+00	2.5262e−01	−2.2386e+01	2.6794e+01	−1.7670e−01	−1.5933e−01	−1.7208e+01	2.5888e+01
^{136}Tc	(nγ)^{137}Tc	9.9000e−01	3.0	2.5	n.c.	0.01	1.2e−03	0
	9.4903e+00	1.1850e−01	−9.9640e+00	5.0476e+00	1.1787e+00	−2.5056e−01	−6.7386e+00	3.3339e+01
^{138}Tc	(nγ)^{139}Tc	8.7600e−01	3.0	1.5	n.c.	0.01	1.5e−03	0
	6.8604e+00	1.5780e−01	−1.3540e+01	1.0798e+01	9.9952e−01	−2.5318e−01	−9.6814e+00	3.1115e+01
^{140}Tc	(nγ)^{141}Tc	5.2300e−01	1.0	1.5	n.c.	0.01	1.1e−03	0
	−1.6961e+00	3.1154e−02	−4.8220e+00	9.2990e+00	3.0870e−01	−1.9275e−01	−5.0201e+00	2.1711e+01
^{142}Tc	(nγ)^{143}Tc	5.3900e−01	1.0	1.5	n.c.	0.01	3.2e−03	0
	−7.1153e+01	5.6527e−01	−6.0997e+01	1.4175e+02	−8.8644e+00	3.5910e−01	−5.8799e+01	−4.7745e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{95}Ru	(np)^{95}Tc	3.3550e+00	2.5	4.5	0.0100	0.01	7.7e−05	
	3.5795e+01	−6.8483e−03	5.7336e+00	−2.9214e+01	4.2634e+00	−3.9355e−01	8.2803e+00	3.5284e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.19	1.48 2.29	2.59 1.97
^{95}Ru	(nα)^{92}Mo	9.0080e+00	2.5	0.0	0.0100	0.01	1.6e−04	0
	1.0856e+01	2.3279e−02	−4.7944e+00	9.4109e+00	−4.7478e−01	6.5070e−02	−4.2681e+00	1.1310e+01
^{96}Ru	(nγ)^{97}Ru	8.1120e+00	0.0	2.5	0.0100	0.01	3.4e−04	
	2.6900e+01	3.0802e−02	−8.2989e−01	−1.0892e+01	2.6067e+00	−3.4820e−01	1.3850e+00	4.8798e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.10	1.21 1.11	0.56 0.19
^{96}Ru	(np)^{96}Tc	5.3500e−01	0.0	7.0	0.0100	0.01	5.1e−03	0
	2.7027e+01	−1.2083e+00	1.1623e+02	−1.4863e+02	5.7227e+00	−3.4436e−01	9.3809e+01	2.4319e+01
^{96}Ru	(nα)^{93}Mo	6.3850e+00	0.0	2.5	0.0100	0.01	7.9e−04	
	3.0311e+01	−5.9422e−01	2.5295e+01	−5.2124e+01	6.6381e+00	−5.4537e−01	2.0366e+01	2.7181e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.35 2.52	4.56 13.35	32.19 45.69
^{97}Ru	(nγ)^{98}Ru	1.0189e+01	2.5	0.0	0.0100	0.01	2.1e−04	
	3.4013e+01	−2.3510e−02	4.9160e+00	−2.2859e+01	2.7119e+00	−3.0212e−01	6.7603e+00	5.9496e+01
	1.00 1.00	1.00 0.99	1.00 0.99	0.98 0.97	0.96 0.96	0.88 0.83	0.79 0.60	0.30 0.11
^{97}Ru	(np)^{97}Tc	1.8970e+00	2.5	4.5	0.0100	0.01	3.2e−04	0
	−9.3147e+00	2.2138e−01	−1.9555e+01	3.8109e+01	4.0351e−05	−1.4003e−01	−1.7205e+01	−9.8255e+00
^{97}Ru	(nα)^{94}Mo	7.9510e+00	2.5	0.0	0.0100	0.01	1.1e−03	
	4.3616e+01	−2.0171e−01	1.9586e+01	−5.5022e+01	4.9829e+00	−2.8842e−01	2.0062e+01	4.4069e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.06 1.22	1.56 3.28	7.77 14.22
^{98}Ru	(nγ)^{99}Ru	7.4640e+00	0.0	2.5	0.0100	0.01	1.0e−04	
	2.3395e+01	8.4345e−03	2.7341e−02	−7.7695e+00	2.0125e+00	−2.9864e−01	1.1222e+00	4.5294e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.05 1.14	1.18 0.97	0.46 0.14
^{98}Ru	(nα)^{95}Mo	5.1300e+00	0.0	2.5	0.0100	0.01	3.1e−03	0
	−1.8156e+01	2.9567e−01	−2.8907e+01	4.8598e+01	1.7001e+00	−3.5942e−01	−2.4810e+01	−2.1288e+01
^{99}Ru	(nγ)^{100}Ru	9.6730e+00	2.5	0.0	0.0100	0.01	3.0e−04	
	3.4691e+01	−1.1313e−02	4.0354e+00	−2.3017e+01	2.9030e+00	−3.3038e−01	6.2946e+00	6.0174e+01
	1.00 1.00	0.99 0.98	0.96 0.94	0.93 0.92	0.91 0.89	0.80 0.75	0.72 0.54	0.25 0.08
^{99}Ru	(np)^{99}Tc	4.8900e−01	2.5	4.5	0.0100	0.01	8.8e−03	0
	7.9343e+01	−1.6098e+00	1.5796e+02	−2.5236e+02	1.3356e+01	−7.5596e−01	1.3415e+02	7.8832e+01
^{99}Ru	(nα)^{96}Mo	6.8210e+00	2.5	0.0	0.0100	0.01	5.9e−04	
	7.6353e+01	−9.7359e−01	6.1933e+01	−1.3971e+02	1.2047e+01	−7.8959e−01	5.5451e+01	7.6804e+01
	1.00 1.00	1.00 1.00	1.01 1.01	1.02 1.03	1.04 1.05	1.19 1.60	2.57 8.24	22.80 43.77
^{100}Ru	(nγ)^{101}Ru	6.8020e+00	0.0	2.5	0.0100	0.01	3.6e−04	
	2.3276e+01	1.3960e−02	−4.0821e−01	−7.5266e+00	2.1510e+00	−3.3308e−01	8.3472e−01	4.5175e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.08 1.19	1.26 0.97	0.38 0.10
^{100}Ru	(nα)^{97}Mo	3.9690e+00	0.0	2.5	0.0100	0.01	7.0e−03	0
	−9.4265e+01	4.8322e−01	−6.7713e+01	1.6200e+02	−5.0178e+00	−8.0677e−02	−6.6907e+01	−9.7398e+01
^{101}Ru	(nγ)^{102}Ru	9.2190e+00	2.5	0.0	0.0100	0.01	4.8e−04	
	4.1098e+01	−8.8428e−02	1.1196e+01	−3.7522e+01	3.8096e+00	−3.8950e−01	1.2547e+01	6.6581e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.95 0.93	0.92 0.90	0.74 0.68	0.64 0.45	0.19 0.06
^{101}Ru	(nα)^{98}Mo	5.8090e+00	2.5	0.0	0.0100	0.01	1.9e−03	0
	1.1557e+02	−9.9912e−01	8.0538e+01	−2.0886e+02	2.0075e+01	−1.5005e+00	7.7898e+01	1.1602e+02
^{102}Ru	(nγ)^{103}Ru	6.2330e+00	0.0	1.5	0.0100	0.01	4.0e−04	
	2.4761e+01	−5.7830e−03	1.5211e+00	−1.1487e+01	2.3741e+00	−3.5121e−01	2.5694e+00	4.7066e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.08 1.17	1.21 0.90	0.32 0.07
^{102}Ru	(nα)^{99}Mo	2.5150e+00	0.0	0.5	0.0100	0.01	5.6e−02	0
	−3.6043e+02	1.5374e+00	−1.8964e+02	5.6666e+02	−3.9036e+01	2.1825e+00	−2.0367e+02	−3.6246e+02
^{103}Ru	(nγ)^{104}Ru	8.9040e+00	1.5	0.0	0.0100	0.01	3.3e−04	
	3.4391e+01	−5.6363e−02	7.2427e+00	−2.6820e+01	3.0409e+00	−3.4591e−01	8.3999e+00	5.9469e+01
	1.13 1.15	1.18 1.19	1.19 1.19	1.18 1.17	1.16 1.15	1.10 1.07	1.02 0.68	0.26 0.07
^{103}Ru	(nα)^{100}Mo	4.5720e+00	1.5	0.0	0.0100	0.01	1.5e−02	0
	4.7433e+01	−2.3624e−01	1.6917e+01	−7.9304e+01	1.3871e+01	−1.2957e+00	2.1243e+01	4.7477e+01
^{104}Ru	(nγ)^{105}Ru	5.9100e+00	0.0	1.5	0.0100	0.01	2.2e−03	
	3.9735e+01	−9.7153e−02	1.1612e+01	−3.9211e+01	4.9546e+00	−5.6533e−01	1.2799e+01	6.2040e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.01 1.01	1.12 1.24	1.36 1.16	0.32 0.06
^{104}Ru	(nα)^{101}Mo	1.0670e+00	0.0	0.5	0.0100	0.01	1.0e−02	0
	4.3085e+00	−1.6451e+01	5.1088e+02	−5.5466e+02	2.2950e+01	−1.2681e+00	3.4592e+02	2.2730e+00
^{105}Ru	(nγ)^{106}Ru	8.4650e+00	1.5	0.0	0.0100	0.01	4.6e−04	
	2.8733e+01	−7.9702e−03	2.2404e+00	−1.5774e+01	2.3312e+00	−3.1155e−01	3.7194e+00	5.3811e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.01	1.02 1.03	1.02 1.02	1.01 1.01	1.00 1.00	1.02 1.05	1.00 0.64	0.23 0.06
^{105}Ru	(nα)^{102}Mo	3.2740e+00	1.5	0.0	0.0100	0.01	3.3e−02	0
	−2.0048e+02	1.4850e+00	−1.5417e+02	3.5688e+02	−1.7625e+01	6.1670e−01	−1.4707e+02	−2.0043e+02
^{106}Ru	(nγ)^{107}Ru	5.6680e+00	0.0	2.5	0.0100	0.01	6.1e−04	
	2.7294e+01	−4.4258e−02	5.1924e+00	−1.9066e+01	2.8973e+00	−3.9535e−01	5.8308e+00	4.9194e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.02	1.04 1.05	1.24 1.39	1.43 0.96	0.29 0.05
^{106}Ru	(nα)^{103}Mo	1.7300e−01	0.0	1.5	0.0100	0.01	2.4e−02	0
	−4.2710e+02	−2.6489e+01	−2.7216e+02	7.2661e+02	−4.8297e+01	2.7044e+00	−2.7811e+02	−4.2983e+02
^{107}Ru	(nγ)^{108}Ru	7.8060e+00	2.5	0.0	0.0100	0.01	5.4e−04	
	2.4708e+01	−2.4728e−02	3.2728e+00	−1.1580e+01	1.2524e+00	−2.1391e−01	3.7708e+00	5.0192e+01
	1.04 1.09	1.14 1.18	1.22 1.25	1.26 1.28	1.29 1.29	1.17 0.97	0.76 0.34	0.09 0.02
^{107}Ru	(nα)^{104}Mo	2.0600e+00	2.5	0.0	0.0100	0.01	8.3e−02	0
	−4.2952e+02	1.2461e+00	−1.7847e+02	6.2613e+02	−4.9142e+01	3.1040e+00	−2.0781e+02	−4.2907e+02
^{108}Ru	(nγ)^{109}Ru	5.2680e+00	0.0	2.5	0.0100	0.01	8.9e−04	0
	2.4166e+01	−3.7321e−02	4.1138e+00	−1.4846e+01	2.4331e+00	−3.6521e−01	4.4966e+00	4.6066e+01
^{109}Ru	(nγ)^{110}Ru	7.3590e+00	2.5	0.0	0.0150	0.01	6.7e−04	0
	2.5463e+01	−3.2166e−02	4.0844e+00	−1.3657e+01	1.3585e+00	−2.1923e−01	4.5759e+00	5.0947e+01
^{110}Ru	(nγ)^{111}Ru	4.9600e+00	0.0	4.5	0.0100	0.01	1.8e−03	0
	2.5882e+01	−5.1425e−02	5.6328e+00	−1.8872e+01	2.8116e+00	−4.0156e−01	6.0052e+00	4.7271e+01
^{111}Ru	(nγ)^{112}Ru	7.1250e+00	4.5	0.0	0.0200	0.01	7.4e−04	0
	2.0837e+01	−1.1617e−02	1.3523e+00	−6.5815e+00	9.4714e−01	−2.0449e−01	1.6791e+00	4.6832e+01
^{112}Ru	(nγ)^{113}Ru	4.5340e+00	0.0	3.5	0.0100	0.01	9.0e−04	0
	2.7272e+01	−7.1097e−02	7.6630e+00	−2.3324e+01	3.1154e+00	−4.1850e−01	7.8995e+00	4.8885e+01
^{113}Ru	(nγ)^{114}Ru	6.5830e+00	3.5	0.0	0.0350	0.01	7.8e−04	0
	2.3117e+01	−4.2811e−02	4.4514e+00	−1.2983e+01	1.3259e+00	−2.2537e−01	4.4841e+00	4.8889e+01
^{114}Ru	(nγ)^{115}Ru	3.9850e+00	0.0	2.5	0.0100	0.01	3.7e−03	0
	1.7588e+01	−1.5841e−01	1.3157e+01	−1.7545e+01	1.0472e+00	−2.0231e−01	9.9041e+00	3.9489e+01
^{115}Ru	(nγ)^{116}Ru	6.1260e+00	2.5	0.0	0.0750	0.01	8.0e−04	0
	3.2847e+01	−9.3368e−02	1.0690e+01	−3.0650e+01	2.6742e+00	−3.0964e−01	1.1102e+01	5.8331e+01
^{116}Ru	(nγ)^{117}Ru	3.8170e+00	0.0	0.5	0.0100	0.01	1.8e−03	0
	7.8720e+00	−3.1630e−02	1.2175e+00	4.5232e+00	−1.0995e−01	−1.5003e−01	−3.9146e−01	3.0872e+01
^{117}Ru	(nγ)^{118}Ru	5.8440e+00	0.5	0.0	0.1150	0.01	1.4e−03	0
	4.4857e+01	−8.8394e−02	1.3626e+01	−4.6941e+01	4.0656e+00	−4.0093e−01	1.6163e+01	6.9244e+01
^{118}Ru	(nγ)^{119}Ru	3.6700e+00	0.0	2.5	0.0150	0.01	5.4e−04	0
	7.6455e+00	7.7620e−03	−1.6100e+00	6.8044e+00	4.2762e−02	−1.7553e−01	−2.1702e+00	2.9547e+01
^{119}Ru	(nγ)^{120}Ru	5.5030e+00	2.5	0.0	0.2000	0.01	7.5e−04	0
	2.4541e+01	−7.9328e−02	8.1604e+00	−2.0057e+01	1.7460e+00	−2.4731e−01	7.8102e+00	5.0026e+01
^{120}Ru	(nγ)^{121}Ru	3.5340e+00	0.0	1.5	0.0350	0.01	4.6e−04	0
	−5.5025e+00	8.3735e−02	−1.0131e+01	2.9707e+01	−1.8950e+00	−3.4251e−02	−1.0810e+01	1.6805e+01
^{121}Ru	(nγ)^{122}Ru	5.1340e+00	1.5	0.0	0.3900	0.01	6.7e−04	0
	1.9559e+01	−1.2328e−01	1.0815e+01	−1.8123e+01	1.1816e+00	−1.9342e−01	8.7809e+00	4.4639e+01
^{122}Ru	(nγ)^{123}Ru	3.1500e+00	0.0	0.5	0.0850	0.01	6.5e−04	0
	−5.2743e+00	1.1164e−01	−1.2295e+01	3.0496e+01	−1.4745e+00	−8.1431e−02	−1.2166e+01	1.7726e+01
^{123}Ru	(nγ)^{124}Ru	5.4250e+00	0.5	0.0	0.7450	0.01	3.8e−04	0
	4.5813e+01	−1.1382e−01	1.5936e+01	−5.2148e+01	4.4846e+00	−4.1117e−01	1.8217e+01	7.0200e+01
^{124}Ru	(nγ)^{125}Ru	3.8950e+00	0.0	5.5	0.1400	0.01	2.8e−03	0
	2.3349e+00	1.1084e−01	−1.0554e+01	1.8978e+01	2.0551e−01	−2.2720e−01	−9.1473e+00	2.3544e+01
^{125}Ru	(nγ)^{126}Ru	4.8770e+00	5.5	0.0	1.3100	0.01	1.8e−04	0
	3.1260e+01	−1.2191e−01	1.2890e+01	−3.8753e+01	4.5623e+00	−4.7326e−01	1.3171e+01	5.7438e+01
^{126}Ru	(nγ)^{127}Ru	7.1400e−01	0.0	3.5	1.3000	0.01	1.0e−03	0
	2.1306e+01	6.8249e−02	−2.1521e+00	−1.8041e+01	4.6067e+00	−5.7761e−01	2.1158e+00	4.2920e+01
^{127}Ru	(nγ)^{128}Ru	2.3270e+00	3.5	0.0	7.1550	0.01	1.5e−04	0
	2.0587e+01	−2.5432e−02	4.4306e+00	−2.1510e+01	3.2324e+00	−3.7680e−01	5.9874e+00	4.6361e+01
^{128}Ru	(nγ)^{129}Ru	2.4000e−01	0.0	1.5	3.9300	0.01	1.3e−03	0
	−2.4483e+01	1.7818e−01	−1.9845e+01	4.8729e+01	−1.9005e+00	−9.7578e−02	−1.9678e+01	−2.1756e+00
^{129}Ru	(nγ)^{130}Ru	1.9230e+00	1.5	0.0	6.9650	0.01	1.7e−04	0
	−3.6281e−01	8.8466e−03	−3.1713e+00	1.0118e+01	−3.6486e−01	−9.9148e−02	−4.1641e+00	2.4718e+01
^{131}Ru	(nγ)^{132}Ru	1.5810e+00	0.5	0.0	n.c.	0.01	1.1e−03	0
	2.5279e+01	−4.2169e−02	5.7044e+00	−2.8364e+01	3.7310e+00	−4.2545e−01	7.4249e+00	4.9666e+01
^{133}Ru	(nγ)^{134}Ru	1.6250e+00	0.5	0.0	n.c.	0.01	2.0e−03	0
	1.1638e+01	7.3782e−02	−5.7559e+00	2.9181e−01	1.1570e+00	−2.5521e−01	−3.4224e+00	3.6026e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{134}Ru	$(n\gamma)^{135}$Ru	2.0000e−03	0.0	1.5	n.c.	0.01	1.4e−03	0
	−3.7221e+00	1.0565e−01	−3.4955e+00	7.8845e+00	−5.3466e−01	−1.4746e−01	−4.7231e−01	1.8586e+01
^{135}Ru	$(n\gamma)^{136}$Ru	1.8230e+00	1.5	0.0	n.c.	0.01	2.2e−03	0
	1.0490e+01	7.4425e−02	−6.0028e+00	1.9994e+00	9.8368e−01	−2.5127e−01	−3.8414e+00	3.5571e+01
^{137}Ru	$(n\gamma)^{138}$Ru	1.5230e+00	1.5	0.0	n.c.	0.01	2.8e−03	0
	8.0761e+00	9.2583e−02	−7.8451e+00	5.4384e+00	8.6518e−01	−2.5367e−01	−5.4915e+00	3.3157e+01
^{139}Ru	$(n\gamma)^{140}$Ru	1.3550e+00	2.5	0.0	n.c.	0.01	3.4e−03	0
	−1.4254e−01	1.1239e−01	−1.0690e+01	1.6154e+01	4.2927e−02	−2.1154e−01	−8.9183e+00	2.5344e+01
^{141}Ru	$(n\gamma)^{142}$Ru	1.0750e+00	2.5	0.0	n.c.	0.01	4.2e−03	0
	−9.8824e+00	1.5937e−01	−1.6193e+01	3.1221e+01	−9.9879e−01	−1.5665e−01	−1.4618e+01	1.5604e+01
^{143}Ru	$(n\gamma)^{144}$Ru	9.9200e−01	0.5	0.0	n.c.	0.01	7.2e−03	0
	−5.3837e+01	4.9318e−01	−5.1968e+01	1.1476e+02	−6.5211e+00	1.6030e−01	−4.9054e+01	−2.9448e+01
^{145}Ru	$(n\gamma)^{146}$Ru	8.7500e−01	3.5	0.0	n.c.	0.01	1.1e−02	0
	−5.8019e+01	3.6276e−01	−4.0444e+01	1.0355e+02	−5.9186e+00	9.1410e−02	−4.0508e+01	−3.2245e+01
^{147}Ru	$(n\gamma)^{148}$Ru	3.5000e−02	2.5	0.0	n.c.	0.01	2.8e−02	0
	1.9112e+01	−8.1728e−02	1.2743e+01	−3.9666e+01	5.0666e+00	−6.3422e−01	1.4621e+01	4.4600e+01
^{97}Rh	$(np)^{97}$Ru	4.3060e+00	4.5	2.5	0.0100	0.01	1.9e−04	
	1.6491e+01	8.4723e−02	−5.0370e+00	6.0790e+00	1.9615e−02	−3.9367e−04	−3.4318e+00	1.7002e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.03	1.04 1.05	1.23 1.38	1.50 1.80	2.26 2.60
^{97}Rh	$(n\alpha)^{94}$Tc	7.2180e+00	4.5	7.0	0.0100	0.01	1.7e−04	0
	4.4657e+01	−1.8912e−01	1.7324e+01	−5.5889e+01	6.4907e+00	−4.9147e−01	1.8871e+01	4.2913e+01
^{98}Rh	$(np)^{98}$Ru	5.8400e+00	2.0	0.0	0.0100	0.01	6.1e−04	
	2.9174e+01	5.1172e−02	4.6816e−01	−1.1114e+01	6.6800e−01	−1.0322e−02	3.0308e+00	3.0783e+01
	1.06 1.10	1.11 1.09	1.07 1.04	1.00 0.97	0.94 0.91	0.70 0.58	0.50 0.45	0.53 0.56
^{98}Rh	$(n\alpha)^{95}$Tc	8.4970e+00	2.0	4.5	0.0100	0.01	1.0e−04	0
	2.9619e+01	−1.8344e−01	1.1972e+01	−2.8362e+01	1.9940e+00	−6.1309e−02	1.1563e+01	2.7586e+01
^{99}Rh	$(np)^{99}$Ru	2.8850e+00	0.5	2.5	0.0100	0.01	1.2e−03	
	3.1002e+01	5.4012e−02	1.1269e−02	−2.0729e+01	4.1000e+00	−3.9199e−01	3.5869e+00	2.9904e+01
	0.99 0.93	0.79 0.69	0.62 0.58	0.55 0.53	0.52 0.51	0.53 0.67	0.91 1.80	2.59 2.05
^{99}Rh	$(n\alpha)^{96}$Tc	5.9500e+00	0.5	7.0	0.0100	0.01	2.8e−03	0
	5.6321e+01	−2.3880e−01	2.3691e+01	−8.1550e+01	1.0173e+01	−8.2816e−01	2.6885e+01	5.2966e+01
^{100}Rh	$(np)^{100}$Ru	4.4130e+00	1.0	0.0	0.0100	0.01	1.3e−03	
	3.4169e+01	−5.9343e−02	1.0703e+01	−3.0866e+01	2.0702e+00	−7.5702e−02	1.1855e+01	3.5268e+01
	0.22 0.24	0.28 0.31	0.34 0.36	0.38 0.40	0.41 0.42	0.46 0.47	0.48 0.60	1.06 1.48
^{100}Rh	$(n\alpha)^{97}$Tc	7.2790e+00	1.0	4.5	0.0100	0.01	2.5e−04	0
	6.6455e+01	−4.4181e−01	3.9706e+01	−1.0249e+02	8.4701e+00	−5.1793e−01	3.9887e+01	6.3910e+01
^{101}Rh	$(n\gamma)^{102}$Rh	7.4390e+00	0.5	1.0	0.0100	0.01	4.9e−04	
	2.8337e+01	−4.8448e−03	2.6143e+00	−1.3805e+01	1.7438e+00	−2.4251e−01	4.0605e+00	5.1622e+01
	1.00 1.00	1.01 1.03	1.04 1.07	1.08 1.08	1.09 1.09	1.09 1.08	1.02 0.66	0.26 0.08
^{101}Rh	$(np)^{101}$Ru	1.3240e+00	0.5	2.5	0.0100	0.01	9.3e−04	0
	−2.7046e+01	2.9182e−01	−2.6858e+01	5.8606e+01	−1.3278e−01	−3.0336e−01	−2.4520e+01	−2.8145e+01
^{101}Rh	$(n\alpha)^{98}$Tc	4.6670e+00	0.5	6.0	0.0100	0.01	1.8e−02	0
	4.0295e+01	−2.0475e−01	1.9670e+01	−6.9825e+01	1.1518e+01	−1.0790e+00	2.2259e+01	3.7082e+01
^{102}Rh	$(n\gamma)^{103}$Rh	9.3180e+00	1.0	0.5	0.0100	0.01	1.9e−05	
	1.4150e+01	1.0631e−01	−8.8459e+00	1.4800e+01	−9.4796e−01	−1.7782e−02	−6.9620e+00	3.8247e+01
	1.01 1.02	1.02 1.01	1.00 1.00	1.00 1.00	1.01 1.02	1.04 0.94	0.78 0.43	0.19 0.07
^{102}Rh	$(np)^{102}$Ru	3.1050e+00	1.0	0.0	0.0100	0.01	1.2e−03	0
	4.6037e+01	−7.2536e−02	1.3472e+01	−5.1492e+01	5.1887e+00	−3.4048e−01	1.6453e+01	4.7136e+01
^{102}Rh	$(n\alpha)^{99}$Tc	6.1940e+00	1.0	4.5	0.0100	0.01	6.2e−04	
	4.5521e+01	−2.5873e−01	2.2793e+01	−6.7831e+01	7.4796e+00	−5.2396e−01	2.3899e+01	4.2975e+01
	1.01 1.04	1.05 1.07	1.10 1.13	1.18 1.24	1.29 1.37	2.10 3.33	5.85 17.84	43.38 82.55
^{103}Rh	$(n\gamma)^{104}$Rh	6.9990e+00	0.5	1.0	0.0100	0.01	2.0e−04	
	1.8614e+01	1.0247e−01	−7.6031e+00	7.3261e+00	2.0131e−01	−1.4343e−01	−5.0099e+00	4.1900e+01
	1.03 1.15	1.18 1.18	1.16 1.15	1.13 1.12	1.11 1.10	1.06 0.98	0.86 0.49	0.18 0.05
^{103}Rh	$(np)^{103}$Ru	1.9000e−02	0.5	1.5	0.0100	0.01	3.9e−03	0
	−2.8144e+01	2.3232e+00	−1.6499e+02	1.9153e+02	−1.1555e+01	6.2118e−01	−8.9669e+01	−2.8837e+01
^{103}Rh	$(n\alpha)^{100}$Tc	3.6410e+00	0.5	1.0	0.0100	0.01	4.2e−02	0
	−1.3052e+02	−1.1196e+00	−3.1225e+01	1.5944e+02	−5.6266e+00	−9.1035e−02	−5.3754e+01	−1.3227e+02
^{104}Rh	$(n\gamma)^{105}$Rh	8.9680e+00	1.0	3.5	0.0100	0.01	1.3e−04	
	2.6181e+01	2.9319e−02	−3.8315e−01	−7.4041e+00	8.0414e−01	−1.4169e−01	1.5001e+00	4.8892e+01
	1.00 1.00	1.00 1.01	1.01 1.01	1.01 1.00	1.00 0.98	0.89 0.79	0.65 0.36	0.15 0.05

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{104}Rh	(np)^{104}Ru	1.9230e+00	1.0	0.0	0.0100	0.01	4.0e−03	0
	−9.9759e+00	3.6887e−01	−3.1054e+01	4.8072e+01	−4.8504e−01	−6.8608e−02	−2.4942e+01	−8.8773e+00
^{104}Rh	(nα)^{101}Tc	5.0320e+00	1.0	4.5	0.0100	0.01	4.2e−03	0
	6.2026e+01	−2.8638e−01	2.8805e+01	−1.0116e+02	1.3184e+01	−1.1074e+00	3.2826e+01	5.9479e+01
^{105}Rh	(nγ)^{106}Rh	6.5870e+00	3.5	1.0	0.0100	0.01	3.6e−04	
	2.1634e+01	1.6348e−02	−6.9852e−01	−3.1696e+00	6.8273e−01	−1.6911e−01	1.9754e−01	4.6306e+01
	1.00 1.00	1.00 0.99	0.99 0.97	0.97 0.96	0.95 0.94	0.84 0.71	0.57 0.28	0.09 0.02
^{105}Rh	(nα)^{102}Tc	2.3670e+00	3.5	1.0	0.0100	0.01	3.5e−02	0
	−4.0688e+02	1.6898e+00	−2.1163e+02	6.3588e+02	−4.4649e+01	2.5380e+00	−2.2733e+02	−4.0724e+02
^{106}Rh	(nγ)^{107}Rh	8.5690e+00	1.0	3.5	0.0100	0.01	1.3e−04	
	2.7654e+01	−3.7324e−03	2.6366e+00	−1.2032e+01	8.5946e−01	−1.3459e−01	3.9686e+00	5.0365e+01
	1.00 1.00	1.01 1.01	1.01 1.00	0.98 0.96	0.94 0.91	0.71 0.56	0.42 0.21	0.08 0.03
^{106}Rh	(np)^{106}Ru	7.4300e−01	1.0	0.0	0.0100	0.01	2.6e−03	0
	−1.1708e+02	2.2223e−01	−3.3811e+01	1.5948e+02	−1.3729e+01	9.3550e−01	−4.4985e+01	−1.1598e+02
^{106}Rh	(nα)^{103}Tc	3.8830e+00	1.0	2.5	0.0100	0.01	2.1e−02	0
	−6.2561e+01	4.5807e−01	−5.2706e+01	1.1015e+02	−1.5894e+00	−2.1864e−01	−4.8403e+01	−6.4597e+01
^{107}Rh	(nγ)^{108}Rh	6.2270e+00	3.5	5.0	0.0100	0.01	5.8e−04	
	2.2222e+01	1.2905e−03	6.3314e−01	−5.4829e+00	7.8021e−01	−1.7729e−01	1.2941e+00	4.5595e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.97	0.97 0.95	0.80 0.65	0.51 0.23	0.07 0.02
^{107}Rh	(nα)^{104}Tc	1.2750e+00	3.5	3.0	0.0100	0.01	5.9e−03	0
	−9.0415e+01	−1.3195e+01	3.8413e+02	−3.2051e+02	7.0048e+00	−1.7001e−01	2.4039e+02	−9.1625e+01
^{108}Rh	(nγ)^{109}Rh	8.0670e+00	5.0	3.5	0.0100	0.01	2.8e−04	
	2.8061e+01	1.5118e−02	9.5654e−01	−1.0884e+01	9.6235e−01	−1.5266e−01	2.7559e+00	5.2072e+01
	1.11 1.21	1.26 1.27	1.24 1.20	1.16 1.11	1.07 1.02	0.71 0.52	0.38 0.17	0.06 0.02
^{108}Rh	(nα)^{105}Tc	2.9210e+00	5.0	1.5	0.0100	0.01	2.9e−02	0
	−2.9324e+02	1.5406e+00	−1.8192e+02	4.8697e+02	−3.1613e+01	1.7457e+00	−1.8440e+02	−2.9358e+02
^{109}Rh	(nγ)^{110}Rh	6.0090e+00	3.5	1.0	0.0100	0.01	1.3e−03	
	1.3533e+01	6.3182e−02	−5.8686e+00	1.0897e+01	−5.4872e−01	−9.2138e−02	−5.0349e+00	3.8205e+01
	1.00 1.00	1.00 1.00	0.99 0.99	0.98 0.97	0.96 0.94	0.79 0.66	0.50 0.18	0.05 0.01
^{109}Rh	(nα)^{106}Tc	4.1200e−01	3.5	1.0	0.0100	0.01	2.3e−02	0
	−4.6221e+02	−2.3784e+01	−2.9590e+02	7.8831e+02	−5.2779e+01	2.9603e+00	−3.0212e+02	−4.6258e+02
^{110}Rh	(nγ)^{111}Rh	7.7210e+00	1.0	3.5	0.0100	0.01	2.0e−04	0
	2.5754e+01	4.3387e−03	1.2002e+00	−9.4267e+00	7.9207e−01	−1.4112e−01	2.4484e+00	4.8465e+01
^{111}Rh	(nγ)^{112}Rh	5.6220e+00	3.5	1.0	0.0100	0.01	4.4e−04	0
	1.5477e+01	2.3321e−02	−2.3935e+00	4.4976e+00	−2.0107e−01	−1.0701e−01	−2.1551e+00	4.0150e+01
^{112}Rh	(nγ)^{113}Rh	7.2320e+00	1.0	1.5	0.0100	0.01	4.8e−04	0
	2.2472e+01	1.3160e−01	−9.2296e+00	4.7446e+00	2.0883e−01	−1.2127e−01	−5.3597e+00	4.5876e+01
^{113}Rh	(nγ)^{114}Rh	5.1630e+00	1.5	1.0	0.0100	0.01	7.6e−04	0
	3.3104e+01	−5.7384e−02	7.8630e+00	−2.6165e+01	2.3238e+00	−2.7871e−01	8.9822e+00	5.7084e+01
^{114}Rh	(nγ)^{115}Rh	5.4810e+00	1.0	3.5	0.0100	0.01	1.8e−04	0
	3.0380e+01	−6.4580e−02	7.5645e+00	−2.3225e+01	1.7721e+00	−2.0234e−01	8.0869e+00	5.3092e+01
^{115}Rh	(nγ)^{116}Rh	5.6210e+00	3.5	1.0	0.0100	0.01	8.7e−05	0
	1.5330e+01	2.6837e−02	−2.5203e+00	5.0690e+00	−6.8117e−01	−3.6113e−02	−2.1978e+00	4.0004e+01
^{116}Rh	(nγ)^{117}Rh	6.2570e+00	1.0	3.5	0.0100	0.01	7.6e−04	0
	2.6465e+01	1.3998e−01	−8.9067e+00	−1.4191e+00	9.5671e−01	−1.7966e−01	−4.0511e+00	4.9177e+01
^{117}Rh	(nγ)^{118}Rh	4.4060e+00	3.5	1.0	0.0100	0.01	6.1e−04	0
	2.7438e+01	−5.6231e−02	6.4549e+00	−2.0044e+01	1.8757e+00	−2.5045e−01	6.8649e+00	5.2112e+01
^{118}Rh	(nγ)^{119}Rh	5.9190e+00	1.0	1.5	0.0100	0.01	5.6e−04	0
	2.6123e+01	1.4292e−01	−9.2487e+00	−1.1683e+00	1.0210e+00	−1.8662e−01	−4.3327e+00	4.9528e+01
^{119}Rh	(nγ)^{120}Rh	4.3160e+00	1.5	3.0	0.0100	0.01	7.5e−04	0
	3.6475e+01	−8.9937e−02	1.1482e+01	−3.5091e+01	2.8657e+00	−2.9996e−01	1.2559e+01	5.9608e+01
^{120}Rh	(nγ)^{121}Rh	5.6710e+00	3.0	1.5	0.0100	0.01	1.8e−04	0
	3.1499e+01	−4.0194e−02	6.0484e+00	−2.3210e+01	1.9170e+00	−2.1410e−01	7.3907e+00	5.5752e+01
^{121}Rh	(nγ)^{122}Rh	4.1130e+00	1.5	0.0	0.0100	0.01	5.8e−04	0
	3.5442e+01	−8.9074e−02	1.1410e+01	−3.4767e+01	2.8457e+00	−2.9484e−01	1.2481e+01	6.0522e+01
^{122}Rh	(nγ)^{123}Rh	5.2890e+00	0.0	1.5	0.0200	0.01	5.9e−04	0
	2.7602e+01	1.6320e−01	−9.8009e+00	−3.1599e+00	1.1157e+00	−1.7786e−01	−3.9268e+00	4.9909e+01
^{123}Rh	(nγ)^{124}Rh	3.7360e+00	1.5	2.0	0.0100	0.01	3.5e−04	0
	3.5091e+01	−9.2401e−02	1.1786e+01	−3.5275e+01	2.8441e+00	−2.8629e−01	1.2814e+01	5.8561e+01
^{124}Rh	(nγ)^{125}Rh	5.5140e+00	2.0	2.5	0.0350	0.01	2.1e−04	0
	3.7641e+01	−2.7155e−02	6.5696e+00	−3.1534e+01	2.8655e+00	−2.7200e−01	9.3221e+00	6.1152e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{125}Rh	$(n\gamma)^{126}$Rh	4.4650e+00	2.5	6.0	0.0100	0.01	5.8e−05	0
	3.1027e+01	−9.6202e−02	1.1138e+01	−3.0555e+01	2.3292e+00	−2.3288e−01	1.1479e+01	5.3947e+01
^{126}Rh	$(n\gamma)^{127}$Rh	5.0220e+00	6.0	2.5	0.0900	0.01	2.2e−06	0
	2.1631e+01	−6.2168e−02	6.3959e+00	−1.6860e+01	1.4516e+00	−1.7321e−01	6.2443e+00	4.6098e+01
^{127}Rh	$(n\gamma)^{128}$Rh	1.1920e+00	2.5	4.0	0.1600	0.01	2.6e−05	0
	1.6316e+01	−4.3669e−02	4.3996e+00	−1.6252e+01	2.7392e+00	−3.2801e−01	4.6954e+00	3.9604e+01
^{128}Rh	$(n\gamma)^{129}$Rh	2.4720e+00	4.0	4.5	2.2700	0.01	1.8e−05	0
	2.5320e+01	−7.7536e−02	8.4567e+00	−2.6381e+01	2.4476e+00	−2.3282e−01	8.8613e+00	4.8909e+01
^{129}Rh	$(n\gamma)^{130}$Rh	8.0600e−01	4.5	3.0	0.7200	0.01	2.0e−04	0
	1.6567e+01	−4.0632e−02	4.4061e+00	−1.8677e+01	3.0238e+00	−3.5560e−01	5.0708e+00	4.0618e+01
^{130}Rh	$(n\gamma)^{131}$Rh	1.4840e+00	3.0	2.5	2.4200	0.01	1.2e−05	0
	2.1988e+01	−5.7841e−02	6.4633e+00	−2.2772e+01	2.4831e+00	−2.6470e−01	7.0859e+00	4.5837e+01
^{131}Rh	$(n\gamma)^{132}$Rh	2.0000e−03	2.5	2.0	0.8400	0.01	1.7e−04	0
	2.2439e+00	1.0509e−01	−2.2338e+00	−2.4433e+00	6.8910e−01	−1.7945e−01	1.9293e+00	2.6121e+01
^{132}Rh	$(n\gamma)^{133}$Rh	1.7080e+00	2.0	2.5	2.3800	0.01	1.7e−04	0
	2.5680e+01	2.3770e−02	2.6084e−01	−2.0389e+01	2.8577e+00	−3.1517e−01	3.2963e+00	4.9192e+01
^{133}Rh	$(n\gamma)^{134}$Rh	2.9900e−01	2.5	3.0	0.4800	0.01	8.4e−04	0
	−1.9598e+01	1.5245e−01	−1.6943e+01	4.1392e+01	−2.0557e+00	−4.2134e−02	−1.6747e+01	3.9422e+00
^{134}Rh	$(n\gamma)^{135}$Rh	1.7310e+00	3.0	2.5	1.6250	0.01	4.0e−04	0
	2.1700e+01	3.5441e−02	−1.3928e+00	−1.3978e+01	2.2165e+00	−2.8314e−01	1.2963e+00	4.5549e+01
^{135}Rh	$(n\gamma)^{136}$Rh	3.7400e−01	2.5	2.0	0.3150	0.01	1.7e−03	0
	−1.5071e+01	1.7746e−01	−1.8365e+01	3.8807e+01	−1.6084e+00	−8.8330e−02	−1.7048e+01	8.8062e+00
^{136}Rh	$(n\gamma)^{137}$Rh	1.9370e+00	2.0	0.5	1.2200	0.01	5.9e−04	0
	9.7332e+00	2.0079e−01	−1.7244e+01	1.5683e+01	5.4511e−01	−2.0280e−01	−1.2507e+01	3.4344e+01
^{137}Rh	$(n\gamma)^{138}$Rh	3.9700e−01	0.5	1.0	n.c.	0.01	2.8e−03	0
	−1.8286e+01	3.1215e−01	−3.0071e+01	5.3898e+01	−1.9359e+00	−1.0318e−01	−2.6054e+01	5.0031e+00
^{138}Rh	$(n\gamma)^{139}$Rh	1.4810e+00	1.0	0.5	n.c.	0.01	7.5e−04	0
	5.1888e+00	2.2564e−01	−1.9761e+01	2.2556e+01	−5.9446e−02	−1.6598e−01	−1.4975e+01	2.9289e+01
^{139}Rh	$(n\gamma)^{140}$Rh	1.2900e−01	0.5	3.0	n.c.	0.01	1.6e−03	0
	−3.0871e+01	2.3320e−01	−2.5228e+01	6.0675e+01	−3.4307e+00	2.2876e−02	−2.4578e+01	−8.4285e+00
^{140}Rh	$(n\gamma)^{141}$Rh	1.4650e+00	3.0	0.5	n.c.	0.01	1.0e−03	0
	9.9427e+00	1.5635e−01	−1.3208e+01	9.8361e+00	8.0912e−01	−2.2610e−01	−9.2652e+00	3.4891e+01
^{142}Rh	$(n\gamma)^{143}$Rh	1.1270e+00	2.0	0.5	n.c.	0.01	1.3e−03	0
	3.6036e+00	2.0836e−01	−1.8363e+01	2.0803e+01	1.9872e−01	−2.0167e−01	−1.3965e+01	2.8215e+01
^{144}Rh	$(n\gamma)^{145}$Rh	9.8900e−01	0.0	0.5	n.c.	0.01	3.9e−04	0
	−2.8332e+01	4.8440e−01	−4.7463e+01	8.5242e+01	−4.0302e+00	4.8906e−02	−4.1395e+01	−5.3294e+00
^{146}Rh	$(n\gamma)^{147}$Rh	8.2700e−01	3.0	0.5	n.c.	0.01	1.9e−03	0
	−3.9463e+01	3.3719e−01	−3.6495e+01	8.4000e+01	−5.0241e+00	1.3146e−01	−3.5150e+01	−1.4515e+01
^{148}Rh	$(n\gamma)^{149}$Rh	1.0000e−03	2.0	3.5	n.c.	0.01	1.1e−03	0
	−8.6072e+01	5.7115e−01	−5.7384e+01	1.4974e+02	−1.1318e+01	5.7374e−01	−5.5405e+01	−6.2846e+01
^{150}Rh	$(n\gamma)^{151}$Rh	4.8000e−02	0.0	3.5	n.c.	0.01	1.5e−02	0
	−1.8160e+02	1.8602e+00	−1.8071e+02	3.7861e+02	−2.3213e+01	1.1167e+00	−1.6257e+02	−1.5999e+02
^{99}Pd	$(np)^{99}$Rh	4.1480e+00	2.5	0.5	0.0100	0.01	2.7e−04	
	3.7579e+01	−3.2182e−02	8.3125e+00	−3.1176e+01	3.1934e+00	−2.2180e−01	1.0328e+01	3.8678e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.15	1.34 1.97	2.62 2.94
^{99}Pd	$(n\alpha)^{96}$Ru	9.5640e+00	2.5	0.0	0.0100	0.01	1.7e−04	0
	3.5371e+01	−1.5522e−01	1.3290e+01	−3.5637e+01	2.8777e+00	−1.4577e−01	1.3409e+01	3.5823e+01
^{100}Pd	$(np)^{100}$Rh	1.1460e+00	0.0	1.0	0.0100	0.01	7.8e−03	
	−1.4156e+02	8.5280e−01	−9.3493e+01	2.5424e+02	−1.6610e+01	8.8874e−01	−9.5048e+01	−1.4266e+02
	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.08	1.17 1.31	4.62 8.61	12.95 24.38	31.49 27.47
^{100}Pd	$(n\alpha)^{97}$Ru	6.5270e+00	0.0	2.5	0.0100	0.01	1.1e−03	0
	1.0617e+01	4.4727e−02	−7.8019e+00	2.6984e+00	3.4049e+00	−3.7178e−01	−5.2553e+00	7.4851e+00
^{101}Pd	$(np)^{101}$Rh	2.7620e+00	2.5	0.5	0.0100	0.01	1.6e−03	
	6.4967e+01	−1.8746e−01	2.6272e+01	−8.6944e+01	9.7565e+00	−8.0935e−01	2.9453e+01	6.6066e+01
	1.00 1.00	1.01 1.01	1.02 1.02	1.03 1.05	1.06 1.07	1.31 1.62	2.09 4.17	5.23 3.22
^{101}Pd	$(n\alpha)^{98}$Ru	8.4420e+00	2.5	0.0	0.0100	0.01	4.3e−04	0
	4.8525e+01	−2.1879e−01	2.1425e+01	−6.2021e+01	5.7116e+00	−3.5120e−01	2.2313e+01	4.8976e+01
^{102}Pd	$(n\gamma)^{103}$Pd	7.6250e+00	0.0	2.5	0.0100	0.01	4.3e−04	
	3.0111e+01	−1.4790e−02	3.2289e+00	−1.8233e+01	3.0885e+00	−3.9540e−01	4.7602e+00	5.2011e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.11 1.27	1.38 1.12	0.46 0.12
^{102}Pd	$(n\alpha)^{99}$Ru	5.3380e+00	0.0	2.5	0.0100	0.01	3.4e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−1.0588e+01	2.5118e−01	−2.4626e+01	3.5586e+01	3.1198e+00	−4.8809e−01	−2.0241e+01	−1.3721e+01
^{103}Pd	$(n\gamma)^{104}$Pd	9.9830e+00	2.5	0.0	0.0100	0.01	3.8e−04	
	4.0705e+01	−5.1523e−02	8.5108e+00	−3.3779e+01	3.6852e+00	−3.8547e−01	1.0688e+01	6.6188e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.95 0.94	0.93 0.91	0.80 0.75	0.72 0.53	0.23 0.07
^{103}Pd	$(np)^{103}$Rh	1.3250e+00	2.5	0.5	0.0100	0.01	2.2e−03	0
	−3.8048e+01	2.4579e−01	−2.5522e+01	6.8853e+01	−1.5872e+00	−1.5065e−01	−2.5905e+01	−3.6949e+01
^{103}Pd	$(n\alpha)^{100}$Ru	7.3860e+00	2.5	0.0	0.0100	0.01	6.7e−04	
	6.0145e+01	−3.7870e−01	3.3808e+01	−9.1399e+01	8.3434e+00	−5.2565e−01	3.3831e+01	6.0594e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.07 1.35	2.02 5.40	14.21 29.71
^{104}Pd	$(n\gamma)^{105}$Pd	7.0940e+00	0.0	2.5	0.0100	0.01	6.5e−04	
	2.2467e+01	2.9916e−02	−1.7519e+00	−4.8419e+00	2.0249e+00	−3.3636e−01	−2.8141e−01	4.4367e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.10 1.22	1.27 0.91	0.31 0.07
^{104}Pd	$(n\alpha)^{101}$Ru	4.2050e+00	0.0	2.5	0.0100	0.01	1.4e−02	0
	−1.2109e+02	9.1887e−01	−9.8010e+01	2.2274e+02	−9.1196e+00	1.5696e−01	−9.2982e+01	−1.2423e+02
^{105}Pd	$(n\gamma)^{106}$Pd	9.5620e+00	2.5	0.0	0.0100	0.01	7.6e−04	
	3.5876e+01	−3.8483e−02	6.6460e+00	−2.6316e+01	2.8642e+00	−3.3179e−01	8.4096e+00	6.1359e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.97 0.96	0.80 0.74	0.68 0.42	0.15 0.04
^{105}Pd	$(np)^{105}$Rh	2.1600e−01	2.5	3.5	0.0100	0.01	3.5e−03	0
	1.0885e+02	−3.0971e−03	6.3387e+01	−1.9185e+02	1.2108e+01	−7.5677e−01	8.8843e+01	1.0856e+02
^{105}Pd	$(n\alpha)^{102}$Ru	6.3310e+00	2.5	0.0	0.0100	0.01	1.3e−03	
	8.7026e+01	−1.5667e+00	8.9209e+01	−1.8295e+02	1.5278e+01	−1.0170e+00	7.5901e+01	8.7475e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.02 1.02	1.20 1.88	3.60 12.48	37.33 82.50
^{106}Pd	$(n\gamma)^{107}$Pd	6.5390e+00	0.0	2.5	0.0100	0.01	1.0e−03	
	1.9859e+01	4.4156e−02	−3.3292e+00	−6.6768e−01	1.6958e+00	−3.2540e−01	−1.8680e+00	4.1759e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.10 1.22	1.26 0.84	0.25 0.05
^{106}Pd	$(n\alpha)^{103}$Ru	3.0020e+00	0.0	1.5	0.0100	0.01	2.5e−02	0
	−3.1362e+02	1.1776e+00	−1.7283e+02	5.0156e+02	−3.2765e+01	1.7136e+00	−1.8439e+02	−3.1635e+02
^{107}Pd	$(n\gamma)^{108}$Pd	9.2210e+00	2.5	0.0	0.0100	0.01	6.8e−04	
	2.6797e+01	−1.2619e−02	2.6240e+00	−1.2161e+01	1.4751e+00	−2.3082e−01	3.5955e+00	5.2281e+01
	1.00 1.00	1.00 0.99	0.99 0.98	0.98 0.97	0.96 0.94	0.82 0.75	0.64 0.34	0.11 0.03
^{107}Pd	$(n\alpha)^{104}$Ru	5.3670e+00	2.5	0.0	0.0100	0.01	9.0e−03	0
	7.1354e+01	−1.1462e+00	6.4404e+01	−1.4752e+02	1.5412e+01	−1.2063e+00	5.6888e+01	7.1802e+01
^{108}Pd	$(n\gamma)^{109}$Pd	6.1530e+00	0.0	2.5	0.0100	0.01	9.5e−04	
	2.1685e+01	2.0619e−02	−1.0706e+00	−5.3307e+00	1.9750e+00	−3.4551e−01	1.4775e−01	4.3585e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.11 1.21	1.24 0.80	0.22 0.04
^{108}Pd	$(n\alpha)^{105}$Ru	2.0550e+00	0.0	1.5	0.0100	0.01	1.6e−01	0
	−3.4439e+02	1.5456e−01	−7.5760e+01	4.2899e+02	−3.6609e+01	2.2890e+00	−1.1789e+02	−3.4712e+02
^{109}Pd	$(n\gamma)^{110}$Pd	8.8180e+00	2.5	0.0	0.0100	0.01	1.2e−03	
	4.5105e+01	−9.7205e−02	1.2782e+01	−4.3737e+01	4.3728e+00	−4.4339e−01	1.4560e+01	7.0589e+01
	1.00 1.00	1.00 0.99	0.98 0.96	0.93 0.90	0.86 0.82	0.63 0.58	0.53 0.33	0.12 0.03
^{109}Pd	$(n\alpha)^{106}$Ru	4.3670e+00	2.5	0.0	0.0100	0.01	3.2e−02	0
	1.4881e+01	−4.2489e−01	7.5613e+00	−3.7188e+01	1.0966e+01	−1.1656e+00	7.4480e+00	1.5328e+01
^{110}Pd	$(n\gamma)^{111}$Pd	5.7510e+00	0.0	2.5	0.0100	0.01	7.3e−04	
	2.4537e+01	−1.1097e−02	1.9996e+00	−1.2101e+01	2.5006e+00	−3.8407e−01	2.9384e+00	4.6437e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.01 1.01	1.15 1.28	1.32 0.88	0.25 0.04
^{110}Pd	$(n\alpha)^{107}$Ru	1.2180e+00	0.0	2.5	0.0100	0.01	5.4e−03	0
	−6.0356e+01	−1.5019e+01	4.2617e+02	−3.9632e+02	1.1562e+01	−4.1185e−01	2.7520e+02	−6.3492e+01
^{111}Pd	$(n\gamma)^{112}$Pd	8.3790e+00	2.5	0.0	0.0100	0.01	4.8e−04	
	2.7406e+01	−2.4877e−02	3.6733e+00	−1.4650e+01	1.5907e+00	−2.3847e−01	4.5153e+00	5.2890e+01
	1.00 1.00	0.99 0.98	0.97 0.95	0.94 0.92	0.90 0.88	0.71 0.58	0.46 0.22	0.06 0.02
^{111}Pd	$(n\alpha)^{108}$Ru	3.2720e+00	2.5	0.0	0.0100	0.01	3.9e−02	0
	−2.3024e+02	1.2581e+00	−1.5539e+02	3.9003e+02	−2.1928e+01	1.0248e+00	−1.5426e+02	−2.2979e+02
^{112}Pd	$(n\gamma)^{113}$Pd	5.4280e+00	0.0	2.5	0.0100	0.01	1.2e−03	0
	2.1215e+01	−1.8961e−03	7.3851e−01	−7.5712e+00	2.0117e+00	−3.5039e−01	1.4642e+00	4.3116e+01
^{113}Pd	$(n\gamma)^{114}$Pd	7.8720e+00	2.5	0.0	0.0100	0.01	5.9e−04	0
	3.3024e+01	−5.3364e−02	7.2869e+00	−2.4853e+01	2.2830e+00	−2.7833e−01	8.3788e+00	5.8508e+01
^{114}Pd	$(n\gamma)^{115}$Pd	4.9810e+00	0.0	2.5	0.0100	0.01	9.2e−04	0
	2.5467e+01	−3.4863e−02	4.1830e+00	−1.6155e+01	2.6963e+00	−3.9570e−01	4.7993e+00	4.7368e+01
^{115}Pd	$(n\gamma)^{116}$Pd	7.6210e+00	2.5	0.0	0.0100	0.01	4.8e−04	0
	1.5006e+01	4.4357e−02	−4.1015e+00	5.8644e+00	−2.0240e−01	−1.0280e−01	−3.3292e+00	4.0491e+01
^{116}Pd	$(n\gamma)^{117}$Pd	4.6740e+00	0.0	2.5	0.0100	0.01	4.8e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	3.5172e+01	−1.0046e−01	1.1370e+01	−3.5849e+01	4.6320e+00	−5.6682e−01	1.2053e+01	5.7073e+01
^{117}Pd	$(n\gamma)^{118}$Pd	6.9200e+00	2.5	0.0	0.0300	0.01	6.0e−04	0
	1.8460e+01	2.4950e−02	−2.3686e+00	−1.3414e+00	1.1394e+00	−2.4596e−01	−1.4855e+00	4.3944e+01
^{118}Pd	$(n\gamma)^{119}$Pd	4.5410e+00	0.0	0.5	0.0100	0.01	3.0e−03	0
	2.5809e+00	−2.1412e−02	−9.0302e−01	1.4214e+01	−1.1040e+00	−7.5344e−02	−3.2845e+00	2.5581e+01
^{119}Pd	$(n\gamma)^{120}$Pd	6.7100e+00	0.5	0.0	0.0450	0.01	1.1e−03	0
	4.7935e+01	−1.2567e−01	1.6906e+01	−5.2515e+01	4.4366e+00	−4.2555e−01	1.8839e+01	7.2322e+01
^{120}Pd	$(n\gamma)^{121}$Pd	4.3620e+00	0.0	2.5	0.0100	0.01	3.3e−04	0
	2.6727e+00	5.4396e−02	−6.6432e+00	1.8351e+01	−5.9955e−01	−1.4666e−01	−7.0104e+00	2.4574e+01
^{121}Pd	$(n\gamma)^{122}$Pd	6.3080e+00	2.5	0.0	0.0950	0.01	6.0e−04	0
	1.8439e+01	−4.7807e−02	4.1292e+00	−8.2393e+00	8.8226e−01	−1.9493e−01	3.4480e+00	4.3924e+01
^{122}Pd	$(n\gamma)^{123}$Pd	4.0840e+00	0.0	1.5	0.0150	0.01	2.4e−03	0
	−1.5820e+01	2.0123e−01	−2.1767e+01	5.3766e+01	−3.0969e+00	1.6909e−03	−2.1356e+01	6.4871e+00
^{123}Pd	$(n\gamma)^{124}$Pd	6.2610e+00	1.5	0.0	0.1500	0.01	4.1e−04	0
	3.1260e+01	−1.3872e−01	1.4301e+01	−3.2923e+01	2.4189e+00	−2.6426e−01	1.3489e+01	5.6340e+01
^{124}Pd	$(n\gamma)^{125}$Pd	4.1980e+00	0.0	4.5	0.0250	0.01	7.0e−03	0
	−8.2682e+00	1.8370e−01	−1.8708e+01	4.0982e+01	−1.5823e+00	−1.2537e−01	−1.7421e+01	1.3123e+01
^{125}Pd	$(n\gamma)^{126}$Pd	6.2790e+00	4.5	0.0	0.3500	0.01	3.6e−04	0
	1.1405e+01	1.5181e−02	−2.2954e+00	3.7392e+00	5.7227e−01	−1.9062e−01	−2.3152e+00	3.7402e+01
^{126}Pd	$(n\gamma)^{127}$Pd	4.1490e+00	0.0	5.5	0.0900	0.01	2.9e−03	0
	1.8854e+01	1.3491e−02	1.4424e−01	−9.8879e+00	2.7145e+00	−4.0357e−01	1.6332e+00	4.0063e+01
^{127}Pd	$(n\gamma)^{128}$Pd	5.4600e+00	5.5	0.0	1.2250	0.01	6.2e−05	0
	2.7805e+01	−1.0215e−01	1.0557e+01	−3.0802e+01	3.5577e+00	−3.7473e−01	1.0605e+01	5.3984e+01
^{128}Pd	$(n\gamma)^{129}$Pd	1.4590e+00	0.0	3.5	0.8800	0.01	5.0e−04	0
	2.5821e+01	4.5610e−03	3.3669e+00	−2.5596e+01	4.3615e+00	−5.0465e−01	6.4136e+00	4.7435e+01
^{129}Pd	$(n\gamma)^{130}$Pd	3.0450e+00	3.5	0.0	6.0400	0.01	3.5e−05	0
	2.5811e+01	−9.2020e−02	1.0449e+01	−3.1810e+01	3.6052e+00	−3.6963e−01	1.0990e+01	5.1585e+01
^{130}Pd	$(n\gamma)^{131}$Pd	7.9600e−01	0.0	1.5	2.9500	0.01	1.5e−03	0
	6.0894e+00	5.0932e−02	−4.7607e+00	2.7994e+00	1.7851e+00	−3.2746e−01	−3.5347e+00	2.8397e+01
^{131}Pd	$(n\gamma)^{132}$Pd	2.5450e+00	1.5	0.0	6.0400	0.01	4.9e−05	0
	1.3813e+01	−6.8785e−02	5.4696e+00	−1.3373e+01	1.6096e+00	−2.2438e−01	4.6032e+00	3.8894e+01
^{133}Pd	$(n\gamma)^{134}$Pd	2.1430e+00	0.5	0.0	6.9300	0.01	6.3e−04	0
	2.6483e+01	−3.3963e−02	5.2165e+00	−2.6844e+01	3.3383e+00	−3.8003e−01	7.0729e+00	5.0871e+01
^{134}Pd	$(n\gamma)^{135}$Pd	1.9300e−01	0.0	1.5	2.3850	0.01	1.3e−03	0
	−6.1508e+01	3.5303e−01	−4.0369e+01	1.1143e+02	−7.6442e+00	2.8654e−01	−4.1569e+01	−3.9200e+01
^{135}Pd	$(n\gamma)^{136}$Pd	2.3520e+00	1.5	0.0	4.8300	0.01	1.0e−03	0
	2.1709e+01	1.5118e−02	6.0165e−01	−1.5774e+01	2.3412e+00	−3.2545e−01	2.8475e+00	4.6790e+01
^{136}Pd	$(n\gamma)^{137}$Pd	2.4400e−01	0.0	1.5	1.5750	0.01	8.6e−04	0
	−4.3570e+01	2.6070e−01	−2.9751e+01	8.1244e+01	−5.2448e+00	1.2102e−01	−3.0527e+01	−2.1261e+01
^{137}Pd	$(n\gamma)^{138}$Pd	2.3830e+00	1.5	0.0	4.3350	0.01	1.7e−03	0
	1.9253e+01	6.0541e−02	−3.5040e+00	−8.6537e+00	1.9358e+00	−3.1368e−01	−5.6831e−01	4.4334e+01
^{138}Pd	$(n\gamma)^{139}$Pd	4.2800e−01	0.0	1.5	1.2450	0.01	2.0e−03	0
	−5.9935e+00	5.0801e−02	−6.4044e+00	1.6958e+01	−9.1602e−02	−2.3062e−01	−6.7640e+00	1.6315e+01
^{139}Pd	$(n\gamma)^{140}$Pd	2.1400e+00	1.5	0.0	4.0550	0.01	2.4e−03	0
	9.6211e+00	9.3006e−02	−7.7307e+00	6.0342e+00	5.4581e−01	−2.2089e−01	−5.4018e+00	3.4702e+01
^{140}Pd	$(n\gamma)^{141}$Pd	9.2000e−02	0.0	2.5	n.c.	0.01	3.2e−03	0
	1.6572e+00	−8.1198e−02	7.9127e+00	−8.6913e+00	1.1697e+00	−3.0022e−01	6.2763e+00	2.3561e+01
^{141}Pd	$(n\gamma)^{142}$Pd	1.9040e+00	2.5	0.0	n.c.	0.01	2.7e−03	0
	6.3748e+00	9.9668e−02	−8.7945e+00	9.6590e+00	3.5440e−01	−2.1961e−01	−6.6751e+00	3.1862e+01
^{143}Pd	$(n\gamma)^{144}$Pd	1.6380e+00	2.5	0.0	n.c.	0.01	3.3e−03	0
	1.6477e+00	1.2631e−01	−1.1627e+01	1.6822e+01	−1.3718e−01	−1.9462e−01	−9.4510e+00	2.7135e+01
^{145}Pd	$(n\gamma)^{146}$Pd	1.4770e+00	0.5	0.0	n.c.	0.01	4.0e−03	0
	2.4176e+00	1.8475e−01	−1.6373e+01	2.0799e+01	−7.6459e−02	−2.0902e−01	−1.2731e+01	2.6806e+01
^{147}Pd	$(n\gamma)^{148}$Pd	1.2810e+00	3.5	0.0	n.c.	0.01	3.5e−03	0
	−6.7900e+00	1.4507e−01	−1.4374e+01	2.6774e+01	−7.8872e−01	−1.6765e−01	−1.2736e+01	1.8985e+01
^{149}Pd	$(n\gamma)^{150}$Pd	6.3300e−01	2.5	0.0	n.c.	0.01	7.9e−03	0
	−5.2853e+01	4.0943e−01	−4.4305e+01	1.0390e+02	−6.0173e+00	1.2475e−01	−4.2891e+01	−2.7366e+01
^{151}Pd	$(n\gamma)^{152}$Pd	5.3300e−01	3.5	0.0	n.c.	0.01	4.0e−03	0
	−1.0113e+02	5.5435e−01	−6.3246e+01	1.7422e+02	−1.2513e+01	5.7345e−01	−6.5025e+01	−7.5353e+01
^{153}Pd	$(n\gamma)^{154}$Pd	6.0400e−01	0.5	0.0	n.c.	0.01	2.0e−02	0
	−1.7736e+01	3.2569e−01	−3.1515e+01	5.1040e+01	−4.8701e−01	−3.0968e−01	−2.6862e+01	6.6528e+00

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{101}Ag	(np)^{101}Pd	4.9860e+00	4.5	2.5	0.0100	0.01	5.6e−04	
	2.9981e+01	2.5558e−02	2.3474e+00	−1.4966e+01	1.7178e+00	−1.3736e−01	4.4420e+00	3.0492e+01
	1.00 1.00	1.00 1.01	1.01 1.01	1.03 1.03	1.04 1.05	1.09 1.11	1.12 1.22	1.34 1.11
^{101}Ag	(nα)^{98}Rh	7.5890e+00	4.5	2.0	0.0100	0.01	5.4e−04	0
	5.0058e+01	−2.3267e−01	2.1583e+01	−6.6516e+01	7.3641e+00	−5.5205e−01	2.3056e+01	4.9410e+01
^{102}Ag	(np)^{102}Pd	6.7060e+00	5.0	0.0	0.0100	0.01	2.6e−04	
	2.2630e+01	1.0401e−01	−4.9067e+00	1.0784e+00	2.0544e−01	−1.4158e−02	−2.0209e+00	2.5028e+01
	1.21 1.23	1.24 1.24	1.22 1.20	1.18 1.15	1.13 1.12	1.05 1.05	1.01 0.92	0.94 0.94
^{102}Ag	(nα)^{99}Rh	9.1580e+00	5.0	0.5	0.0100	0.01	3.2e−05	0
	3.1988e+01	−1.3938e−01	1.0751e+01	−3.0440e+01	2.8608e+00	−1.7044e−01	1.1160e+01	3.2352e+01
^{103}Ag	(np)^{103}Pd	3.4710e+00	3.5	2.5	0.0100	0.01	8.3e−04	
	3.6744e+01	−3.8882e−02	8.6331e+00	−3.3998e+01	4.3867e+00	−3.8021e−01	1.0683e+01	3.7032e+01
	0.98 0.90	0.85 0.82	0.80 0.80	0.80 0.80	0.80 0.81	0.89 1.04	1.27 2.04	2.66 2.05
^{103}Ag	(nα)^{100}Rh	6.4450e+00	3.5	1.0	0.0100	0.01	2.3e−03	0
	5.6923e+01	−2.2577e−01	2.3282e+01	−8.1493e+01	1.0336e+01	−8.4459e−01	2.6344e+01	5.6562e+01
^{104}Ag	(np)^{104}Pd	5.0610e+00	5.0	0.0	0.0100	0.01	1.4e−03	
	4.1075e+01	−3.1649e−02	1.0000e+01	−3.7589e+01	3.3667e+00	−2.2783e−01	1.2857e+01	4.3473e+01
	2.46 2.60	2.64 2.64	2.61 2.57	2.52 2.46	2.41 2.35	1.98 1.77	1.66 1.73	2.14 1.76
^{104}Ag	(nα)^{101}Rh	7.9420e+00	5.0	0.5	0.0100	0.01	6.3e−04	0
	4.9187e+01	−2.7400e−01	2.4503e+01	−6.7462e+01	6.3305e+00	−4.1449e−01	2.4941e+01	4.9550e+01
^{105}Ag	(nγ)^{106}Ag	7.9420e+00	0.5	1.0	0.0100	0.01	3.5e−04	
	1.3719e+01	1.2535e−01	−1.0548e+01	1.6197e+01	−3.8920e−01	−1.1226e−01	−8.2292e+00	3.7005e+01
	1.16 1.25	1.21 1.19	1.17 1.15	1.14 1.13	1.13 1.13	1.12 1.10	1.01 0.59	0.22 0.06
^{105}Ag	(np)^{105}Pd	2.1280e+00	0.5	2.5	0.0100	0.01	1.6e−03	0
	−1.4431e+01	3.1377e−01	−2.7965e+01	5.1856e+01	−6.9682e−01	−9.6538e−02	−2.4151e+01	−1.5530e+01
^{105}Ag	(nα)^{102}Rh	5.3540e+00	0.5	1.0	0.0100	0.01	1.1e−02	0
	2.4121e+01	7.3466e−02	−4.3886e+00	−2.5327e+01	8.6104e+00	−8.8301e−01	1.2820e+00	2.2373e+01
^{106}Ag	(nγ)^{107}Ag	9.5370e+00	1.0	0.5	0.0100	0.01	1.1e−04	
	2.5218e+01	1.0654e−02	1.0598e+00	−7.1786e+00	6.4869e−01	−1.2945e−01	2.3110e+00	4.9315e+01
	1.00 1.01	1.03 1.05	1.06 1.08	1.09 1.09	1.09 1.09	1.00 0.87	0.71 0.38	0.16 0.05
^{106}Ag	(np)^{106}Pd	3.7470e+00	1.0	0.0	0.0100	0.01	2.7e−03	0
	4.6655e+01	−9.6124e−03	8.6330e+00	−4.6197e+01	5.3363e+00	−4.1526e−01	1.3105e+01	4.7753e+01
^{106}Ag	(nα)^{103}Rh	6.7300e+00	1.0	0.5	0.0100	0.01	4.4e−04	
	4.2071e+01	−2.2619e−01	2.0019e+01	−6.0203e+01	6.7151e+00	−4.6277e−01	2.1078e+01	4.1133e+01
	1.00 0.99	0.96 0.92	0.90 0.89	0.90 0.91	0.92 0.94	1.24 1.94	3.50 11.62	33.33 67.09
^{107}Ag	(nγ)^{108}Ag	7.2700e+00	0.5	1.0	0.0100	0.01	1.6e−03	
	1.1331e+01	1.1021e−01	−9.5742e+00	1.7927e+01	−8.5637e−01	−7.9107e−02	−7.9514e+00	3.4617e+01
	1.00 1.01	1.05 1.09	1.12 1.13	1.14 1.14	1.14 1.15	1.16 1.15	1.01 0.45	0.13 0.04
^{107}Ag	(np)^{107}Pd	7.5000e−01	0.5	2.5	0.0100	0.01	3.2e−03	0
	−9.3854e+01	1.1107e−01	−1.8952e+01	1.1836e+02	−9.1059e+00	4.4631e−01	−2.9036e+01	−9.4953e+01
^{107}Ag	(nα)^{104}Rh	4.1920e+00	0.5	1.0	0.0100	0.01	3.2e−02	0
	−9.0789e+01	8.1151e−01	−8.5823e+01	1.7448e+02	−4.0468e+00	−2.4257e−01	−7.7826e+01	−9.2538e+01
^{108}Ag	(nγ)^{109}Ag	9.1870e+00	1.0	0.5	0.0100	0.01	6.4e−05	
	2.2699e+01	3.2758e−02	−1.1900e+00	−2.1810e+00	2.0486e−01	−9.8534e−02	2.2154e−01	4.6796e+01
	1.00 1.00	1.02 1.03	1.04 1.04	1.03 1.03	1.02 1.01	0.92 0.78	0.62 0.31	0.12 0.04
^{108}Ag	(np)^{108}Pd	2.7000e+00	1.0	0.0	0.0100	0.01	1.4e−03	0
	2.8373e+01	1.4027e−01	−6.0214e+00	−1.5824e+01	3.7977e+00	−3.1349e−01	−9.6428e−02	2.9471e+01
^{108}Ag	(nα)^{105}Rh	5.8910e+00	1.0	3.5	0.0100	0.01	6.1e−04	0
	5.7788e+01	−3.1751e−01	3.0580e+01	−9.4097e+01	1.0790e+01	−8.0916e−01	3.2625e+01	5.5463e+01
^{109}Ag	(nγ)^{110}Ag	6.8090e+00	0.5	1.0	0.0100	0.01	1.2e−03	
	2.0912e+01	2.4302e−02	−1.1370e+00	−1.4314e+00	5.1551e−01	−1.6746e−01	−1.5595e−01	4.4198e+01
	1.00 1.03	1.10 1.14	1.17 1.18	1.18 1.17	1.16 1.16	1.08 1.00	0.84 0.38	0.11 0.03
^{109}Ag	(nα)^{106}Rh	3.2900e+00	0.5	1.0	0.0100	0.01	3.6e−02	0
	−2.6140e+02	1.6209e+00	−1.7956e+02	4.5035e+02	−2.6175e+01	1.2255e+00	−1.7689e+02	−2.6315e+02
^{110}Ag	(nγ)^{111}Ag	8.8310e+00	1.0	0.5	0.0100	0.01	7.0e−05	
	2.5548e+01	1.4903e−02	8.4676e−01	−7.5344e+00	4.7875e−01	−1.0834e−01	2.2971e+00	4.9646e+01
	0.99 1.08	1.10 1.12	1.14 1.14	1.14 1.13	1.12 1.11	0.94 0.75	0.56 0.27	0.10 0.03
^{110}Ag	(np)^{110}Pd	1.6750e+00	1.0	0.0	0.0100	0.01	4.0e−03	0
	−3.9632e+01	4.6494e−01	−4.3261e+01	9.0159e+01	−3.9149e+00	1.6470e−01	−3.8777e+01	−3.8534e+01
^{110}Ag	(nα)^{107}Rh	5.0500e+00	1.0	3.5	0.0100	0.01	2.8e−03	0
	3.8327e+01	−1.8883e−01	1.6200e+01	−6.4729e+01	1.0367e+01	−8.9215e−01	1.9492e+01	3.6001e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{111}Ag	$(n\gamma)^{112}$Ag	6.4790e+00	0.5	0.0	0.0100	0.01	6.4e−04	
	2.3363e+01	7.0719e−03	7.4919e−01	−6.3174e+00	8.2102e−01	−1.8219e−01	1.7278e+00	4.7749e+01
	1.00 1.06	1.13 1.18	1.20 1.20	1.20 1.19	1.18 1.17	1.08 0.95	0.78 0.36	0.11 0.03
^{111}Ag	$(n\alpha)^{108}$Rh	2.4460e+00	0.5	5.0	0.0100	0.01	4.3e−02	0
	−3.5607e+02	1.3906e+00	−1.8072e+02	5.4859e+02	−3.7745e+01	2.0568e+00	−1.9476e+02	−3.5912e+02
^{112}Ag	$(n\gamma)^{113}$Ag	8.4800e+00	0.0	0.5	0.0100	0.01	1.4e−04	
	2.4507e+01	3.1614e−02	−8.7372e−01	−5.2451e+00	5.4638e−01	−1.3137e−01	8.3827e−01	4.7506e+01
	1.08 1.21	1.26 1.30	1.32 1.31	1.31 1.30	1.28 1.26	1.02 0.80	0.60 0.27	0.09 0.03
^{112}Ag	$(np)^{112}$Pd	4.9500e−01	0.0	0.0	0.0100	0.01	3.5e−03	0
	−1.9866e+01	−9.3034e−01	8.3893e+01	−7.2079e+01	−1.1502e−01	1.7063e−01	6.1751e+01	−1.9866e+01
^{112}Ag	$(n\alpha)^{109}$Rh	4.0340e+00	0.0	3.5	0.0100	0.01	1.4e−02	0
	−2.3407e+01	1.7378e−01	−2.8114e+01	3.7409e+01	6.1748e+00	−8.7320e−01	−2.3149e+01	−2.6832e+01
^{113}Ag	$(n\gamma)^{114}$Ag	5.9830e+00	0.5	1.0	0.0100	0.01	7.7e−04	
	2.7570e+01	1.5298e−02	8.9779e−01	−1.2056e+01	1.6791e+00	−2.6151e−01	2.7968e+00	5.0857e+01
	1.02 1.16	1.24 1.27	1.27 1.27	1.25 1.23	1.22 1.20	1.10 1.00	0.85 0.41	0.12 0.03
^{113}Ag	$(n\alpha)^{110}$Rh	1.5630e+00	0.5	1.0	0.0100	0.01	1.2e−02	0
	−1.5089e+02	−8.1782e+00	2.4495e+02	−1.1561e+02	−4.1983e+00	4.3892e−01	1.3931e+02	−1.5264e+02
^{114}Ag	$(n\gamma)^{115}$Ag	8.1140e+00	1.0	0.5	0.0100	0.01	2.0e−04	0
	3.3744e+01	−5.4892e−02	7.4079e+00	−2.4343e+01	1.9678e+00	−2.2114e−01	8.4071e+00	5.7842e+01
^{115}Ag	$(n\gamma)^{116}$Ag	5.6440e+00	0.5	2.0	0.0100	0.01	4.9e−04	0
	2.0367e+01	4.3233e−02	−2.6328e+00	−8.0046e−01	6.0295e−01	−1.7914e−01	−1.0992e+00	4.3143e+01
^{116}Ag	$(n\gamma)^{117}$Ag	7.7550e+00	2.0	0.5	0.0100	0.01	1.4e−03	0
	1.8976e+01	−4.7896e−02	4.0685e+00	−3.7779e+00	−7.0745e−01	1.5152e−02	2.9708e+00	4.3585e+01
^{117}Ag	$(n\gamma)^{118}$Ag	5.4720e+00	0.5	0.0	0.0100	0.01	3.0e−04	0
	2.3283e+01	4.6100e−03	9.8987e−01	−7.9692e+00	1.0011e+00	−1.9610e−01	2.0722e+00	4.7669e+01
^{118}Ag	$(n\gamma)^{119}$Ag	6.9820e+00	0.0	3.5	0.0100	0.01	4.4e−04	0
	2.8315e+01	−9.6183e−02	9.6096e+00	−2.1396e+01	1.2829e+00	−1.6145e−01	8.8940e+00	4.9929e+01
^{119}Ag	$(n\gamma)^{120}$Ag	5.2890e+00	3.5	0.0	0.0100	0.01	3.8e−04	0
	2.3893e+01	−2.2150e−02	2.8817e+00	−1.0591e+01	1.0779e+00	−1.9404e−01	3.3479e+00	4.9665e+01
^{120}Ag	$(n\gamma)^{121}$Ag	6.8460e+00	0.0	3.5	0.0100	0.01	1.8e−04	0
	1.2841e−01	3.7668e−01	−3.3534e+01	5.3556e+01	−2.8173e+00	6.0566e−02	−2.7175e+01	2.1742e+01
^{121}Ag	$(n\gamma)^{122}$Ag	4.8850e+00	3.5	3.0	0.0100	0.01	2.3e−04	0
	1.0700e+01	3.2962e−02	−3.9405e+00	1.0487e+01	−8.5255e−01	−5.0860e−02	−4.0713e+00	3.4527e+01
^{122}Ag	$(n\gamma)^{123}$Ag	6.9550e+00	3.0	3.5	0.0100	0.01	2.4e−04	0
	3.2802e+01	2.4719e−02	1.0901e+00	−1.8420e+01	1.8684e+00	−2.1600e−01	4.0519e+00	5.6362e+01
^{123}Ag	$(n\gamma)^{124}$Ag	4.7480e+00	3.5	0.0	0.0100	0.01	2.8e−04	0
	4.7157e+00	5.6033e−02	−6.9198e+00	1.8991e+01	−1.3305e+00	−2.9456e−02	−7.2886e+00	3.0489e+01
^{124}Ag	$(n\gamma)^{125}$Ag	6.6450e+00	0.0	4.5	0.0100	0.01	2.1e−04	0
	1.9731e+01	2.2722e−01	−1.7064e+01	1.3858e+01	−2.3385e−02	−1.0228e−01	−1.1055e+01	4.1122e+01
^{125}Ag	$(n\gamma)^{126}$Ag	4.6830e+00	4.5	6.0	0.0100	0.01	2.1e−04	0
	1.4829e+01	−1.2084e−02	4.8835e−01	−1.3528e+00	5.6521e−01	−1.6352e−01	1.7870e−01	3.8261e+01
^{126}Ag	$(n\gamma)^{127}$Ag	6.2320e+00	6.0	1.5	0.0300	0.01	1.7e−05	0
	2.5023e+01	−6.6843e−02	6.8100e+00	−1.7782e+01	1.3929e+00	−1.6633e−01	6.6140e+00	4.9895e+01
^{127}Ag	$(n\gamma)^{128}$Ag	4.7220e+00	1.5	2.0	0.0150	0.01	3.3e−05	0
	3.6596e+01	−1.6391e−01	1.7636e+01	−4.3076e+01	3.2079e+00	−2.8667e−01	1.7175e+01	6.0067e+01
^{128}Ag	$(n\gamma)^{129}$Ag	5.5730e+00	2.0	4.5	0.1250	0.01	3.0e−06	0
	3.5541e+01	−1.3824e−01	1.5659e+01	−4.0105e+01	2.8725e+00	−2.4029e−01	1.5733e+01	5.8542e+01
^{129}Ag	$(n\gamma)^{130}$Ag	2.0000e+00	4.5	2.0	0.1500	0.01	1.5e−04	0
	2.7612e+01	−1.1856e−01	1.2265e+01	−3.4902e+01	3.8492e+00	−3.6408e−01	1.2242e+01	5.1999e+01
^{130}Ag	$(n\gamma)^{131}$Ag	3.1050e+00	2.0	2.5	1.8650	0.01	2.1e−05	0
	3.1038e+01	−7.5140e−02	9.6570e+00	−3.2317e+01	2.8662e+00	−2.5123e−01	1.0877e+01	5.4550e+01
^{131}Ag	$(n\gamma)^{132}$Ag	1.3550e+00	2.5	5.0	0.5950	0.01	5.5e−05	0
	2.5927e+01	−5.7898e−02	7.5147e+00	−2.8767e+01	3.4247e+00	−3.4774e−01	8.8340e+00	4.9015e+01
^{132}Ag	$(n\gamma)^{133}$Ag	2.6500e+00	5.0	3.5	1.8150	0.01	2.0e−05	0
	2.4480e+01	−7.0583e−02	7.7770e+00	−2.5064e+01	2.4465e+00	−2.4638e−01	8.2580e+00	4.8493e+01
^{134}Ag	$(n\gamma)^{135}$Ag	2.4830e+00	4.0	3.5	2.0400	0.01	8.1e−05	0
	2.8609e+01	1.7951e−02	8.2313e−01	−2.2545e+01	3.0202e+00	−3.1318e−01	3.9044e+00	5.2422e+01
^{135}Ag	$(n\gamma)^{136}$Ag	5.3000e−01	3.5	2.0	0.1950	0.01	9.8e−04	0
	5.6081e−01	8.2578e−02	−8.2643e+00	1.2241e+01	6.8332e−01	−2.3619e−01	−7.0587e+00	2.4726e+01
^{136}Ag	$(n\gamma)^{137}$Ag	2.4740e+00	2.0	3.5	1.1350	0.01	2.4e−04	0
	1.7456e+01	1.5441e−01	−1.2329e+01	3.5975e+00	1.4079e+00	−2.4275e−01	−7.7347e+00	4.0681e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{137}Ag	$(n\gamma)^{138}$Ag	5.2400e−01	3.5	4.0	0.1500	0.01	1.9e−03	0
	2.4510e−01	9.4652e−02	−9.3008e+00	1.3327e+01	7.3015e−01	−2.6307e−01	−7.8282e+00	2.3822e+01
^{138}Ag	$(n\gamma)^{139}$Ag	2.3150e+00	4.0	0.5	1.0750	0.01	4.5e−04	0
	2.1688e+01	6.3231e−02	−3.8436e+00	−9.7610e+00	1.9216e+00	−2.7095e−01	−7.0997e−01	4.6887e+01
^{139}Ag	$(n\gamma)^{140}$Ag	9.6900e−01	0.5	2.0	0.1050	0.01	2.2e−03	0
	2.8399e+00	2.2906e−01	−2.0166e+01	2.4807e+01	4.9649e−02	−2.0896e−01	−1.5531e+01	2.5619e+01
^{140}Ag	$(n\gamma)^{141}$Ag	2.2270e+00	2.0	0.5	0.5900	0.01	6.8e−04	0
	1.3454e+01	1.6139e−01	−1.3280e+01	9.0670e+00	6.8725e−01	−2.0358e−01	−9.0564e+00	3.8065e+01
^{141}Ag	$(n\gamma)^{142}$Ag	5.8300e−01	0.5	3.0	0.1250	0.01	3.2e−03	0
	−7.9178e+00	3.0420e−01	−2.7863e+01	4.2192e+01	−8.2622e−01	−1.8550e−01	−2.2758e+01	1.4525e+01
^{142}Ag	$(n\gamma)^{143}$Ag	1.9330e+00	3.0	0.5	0.9550	0.01	9.0e−04	0
	1.2846e+01	1.4764e−01	−1.2225e+01	7.4875e+00	8.8955e−01	−2.2766e−01	−8.2928e+00	3.7794e+01
^{143}Ag	$(n\gamma)^{144}$Ag	4.9000e−01	0.5	3.0	n.c.	0.01	3.3e−03	0
	−1.7897e+01	3.5814e−01	−3.3878e+01	5.8537e+01	−2.1462e+00	−1.0035e−01	−2.8864e+01	4.5458e+00
^{144}Ag	$(n\gamma)^{145}$Ag	1.6920e+00	3.0	0.5	n.c.	0.01	1.0e−03	0
	1.1674e+01	1.4087e−01	−1.1725e+01	7.5851e+00	8.2242e−01	−2.2597e−01	−8.0250e+00	3.6622e+01
^{145}Ag	$(n\gamma)^{146}$Ag	3.7600e−01	0.5	1.0	n.c.	0.01	3.3e−03	0
	−2.7477e+01	3.7311e−01	−3.6715e+01	7.1041e+01	−3.3223e+00	−2.0772e−02	−3.2651e+01	−4.1871e+00
^{146}Ag	$(n\gamma)^{147}$Ag	1.5480e+00	1.0	0.5	n.c.	0.01	8.6e−04	0
	−3.0799e+00	3.0570e−01	−2.7996e+01	3.9982e+01	−1.1273e+00	−1.1843e−01	−2.2583e+01	2.1021e+01
^{147}Ag	$(n\gamma)^{148}$Ag	9.0000e−02	0.5	4.0	n.c.	0.01	2.2e−03	0
	−3.0413e+01	2.0578e−01	−2.2469e+01	5.6816e+01	−3.2826e+00	1.5358e−03	−2.2261e+01	−8.2219e+00
^{148}Ag	$(n\gamma)^{149}$Ag	1.3020e+00	4.0	3.5	n.c.	0.01	1.4e−03	0
	1.1519e+01	1.1076e−01	−9.1950e+00	3.5672e+00	1.1614e+00	−2.5809e−01	−6.0501e+00	3.5332e+01
^{150}Ag	$(n\gamma)^{151}$Ag	7.7300e−01	2.0	0.5	n.c.	0.01	1.8e−03	0
	−2.8209e−01	2.1543e−01	−1.9298e+01	2.4446e+01	−1.0580e−02	−2.0427e−01	−1.5086e+01	2.4330e+01
^{152}Ag	$(n\gamma)^{153}$Ag	6.3700e−01	3.0	0.5	n.c.	0.01	7.7e−04	0
	−1.9855e+01	4.5438e−02	−9.3034e+00	3.3880e+01	−2.2566e+00	−1.5004e−02	−1.1838e+01	5.0936e+00
^{154}Ag	$(n\gamma)^{155}$Ag	6.9100e−01	1.0	0.5	n.c.	0.01	2.8e−03	0
	−5.9217e+01	8.7579e−01	−8.0710e+01	1.4952e+02	−7.9745e+00	2.3719e−01	−6.8821e+01	−3.5116e+01
^{156}Ag	$(n\gamma)^{157}$Ag	5.7900e−01	1.0	0.5	n.c.	0.01	5.8e−03	0
	−1.2927e+02	1.6384e+00	−1.5112e+02	2.9637e+02	−1.7938e+01	8.3569e−01	−1.3055e+02	−1.0517e+02
^{103}Cd	$(np)^{103}$Ag	4.9250e+00	2.5	3.5	0.0100	0.01	4.2e−05	
	3.5122e+01	1.5662e−03	5.1355e+00	−2.3986e+01	2.6597e+00	−2.0180e−01	7.4504e+00	3.4834e+01
	1.00 1.00	1.00 1.00	0.99 0.98	0.99 0.97	0.97 0.97	0.99 1.09	1.20 1.50	1.71 1.68
^{103}Cd	$(n\alpha)^{100}$Pd	1.0224e+01	2.5	0.0	0.0100	0.01	2.5e−04	0
	2.6897e+01	−8.1654e−02	5.4000e+00	−1.7784e+01	1.7378e+00	−9.6831e−02	6.0679e+00	2.7347e+01
^{104}Cd	$(np)^{104}$Ag	1.9190e+00	0.0	5.0	0.0100	0.01	2.4e−03	
	−3.0506e+01	3.8795e−01	−3.7168e+01	7.7411e+01	−8.4197e−01	−2.9349e−01	−3.3939e+01	−3.2904e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.04 1.09	2.77 4.89	6.75 11.44	8.85 3.33
^{104}Cd	$(n\alpha)^{101}$Pd	7.0990e+00	0.0	2.5	0.0100	0.01	8.1e−04	0
	1.7309e+01	2.5322e−02	−3.9897e+00	−7.0460e+00	3.9500e+00	−3.9987e−01	−1.3132e+00	1.4175e+01
^{105}Cd	$(np)^{105}$Ag	3.5210e+00	2.5	0.5	0.0100	0.01	2.1e−04	
	4.2405e+01	−6.1244e−02	1.1966e+01	−4.3189e+01	4.7182e+00	−3.4767e−01	1.4381e+01	4.3503e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.02	1.02 1.03	1.15 1.37	1.74 2.99	4.34 5.05
^{105}Cd	$(n\alpha)^{102}$Pd	9.2430e+00	2.5	0.0	0.0100	0.01	6.7e−05	0
	3.1415e+01	−1.1899e−01	1.0003e+01	−2.9617e+01	2.6253e+00	−1.2190e−01	1.0597e+01	3.1863e+01
^{106}Cd	$(n\gamma)^{107}$Cd	7.9260e+00	0.0	2.5	0.0100	0.01	8.6e−04	
	2.7516e+01	3.1724e−02	−6.6102e−01	−1.1113e+01	2.6751e+00	−3.8088e−01	1.6201e+00	4.9415e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.06 1.18	1.27 0.95	0.34 0.09
^{106}Cd	$(np)^{106}$Ag	5.8800e−01	0.0	1.0	0.0100	0.01	1.9e−02	0
	−5.5810e+01	−8.9146e−01	7.0268e+01	−1.4460e+01	−3.5130e+00	2.1838e−01	4.2451e+01	−5.6909e+01
^{106}Cd	$(n\alpha)^{103}$Pd	5.9930e+00	0.0	2.5	0.0100	0.01	6.4e−03	
	8.4815e+00	−2.6624e−01	1.0808e+00	−9.2310e+00	5.6940e+00	−6.3364e−01	1.6872e−01	5.3465e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.05	2.18 5.34	11.74 33.90	61.51 68.13
^{107}Cd	$(n\gamma)^{108}$Cd	1.0336e+01	2.5	0.0	0.0100	0.01	5.1e−04	
	3.2732e+01	−1.9937e−02	4.5688e+00	−2.0341e+01	2.4044e+00	−2.9642e−01	6.2617e+00	5.8216e+01
	1.00 1.00	1.00 0.99	1.00 0.99	0.99 0.98	0.98 0.97	0.89 0.83	0.77 0.49	0.19 0.06
^{107}Cd	$(np)^{107}$Ag	2.1990e+00	2.5	0.5	0.0100	0.01	1.6e−03	0
	4.8273e+01	−1.1815e−01	1.8424e+01	−6.5443e+01	9.0528e+00	−8.4606e−01	2.1401e+01	4.9371e+01
^{107}Cd	$(n\alpha)^{104}$Pd	8.0500e+00	2.5	0.0	0.0100	0.01	1.5e−03	

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	5.1319e+01	−2.8129e−01	2.7335e+01	−7.3595e+01	6.5372e+00	−3.8807e−01	2.7532e+01	5.1768e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.98	0.97 0.97	0.99 1.18	1.63 3.90	11.08 21.88
^{108}Cd	$(n\gamma)^{109}$Cd	7.3240e+00	0.0	2.5	0.0100	0.01	2.7e−03	
	2.6155e+01	2.5065e−02	−6.3671e−01	−1.0018e+01	2.7217e+00	−4.1089e−01	1.2616e+00	4.8055e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.15	1.26 0.87	0.24 0.05
^{108}Cd	$(n\alpha)^{105}$Pd	4.8080e+00	0.0	2.5	0.0100	0.01	2.4e−02	0
	−8.4538e+01	7.7736e−01	−7.9972e+01	1.6631e+02	−4.6157e+00	−1.3706e−01	−7.3179e+01	−8.7674e+01
^{109}Cd	$(n\gamma)^{110}$Cd	9.9150e+00	2.5	0.0	0.0100	0.01	9.4e−04	
	1.9197e+01	7.7496e−02	−5.7667e+00	5.1197e+00	4.8842e−01	−1.8383e−01	−3.7789e+00	4.4681e+01
	1.00 1.00	0.99 0.98	0.97 0.97	0.96 0.95	0.94 0.93	0.91 0.89	0.81 0.43	0.14 0.04
^{109}Cd	$(np)^{109}$Ag	9.9600e−01	2.5	0.5	0.0100	0.01	6.2e−03	0
	−1.1053e+02	3.1362e−01	−4.1676e+01	1.6184e+02	−1.1746e+01	6.6207e−01	−5.0288e+01	−1.0943e+02
^{109}Cd	$(n\alpha)^{106}$Pd	7.0450e+00	2.5	0.0	0.0100	0.01	1.0e−03	
	7.4843e+01	−6.0534e−01	4.9447e+01	−1.2731e+02	1.1809e+01	−8.0215e−01	4.8027e+01	7.5290e+01
	1.00 1.02	1.03 1.06	1.06 1.08	1.08 1.08	1.08 1.09	1.19 1.63	2.75 9.24	31.91 58.25
^{110}Cd	$(n\gamma)^{111}$Cd	6.9760e+00	0.0	0.5	0.0100	0.01	2.9e−03	
	1.4279e+01	9.6385e−02	−8.5136e+00	1.1115e+01	9.4722e−01	−2.9344e−01	−6.6789e+00	3.7278e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.07 1.20	1.25 0.73	0.18 0.04
^{110}Cd	$(n\alpha)^{107}$Pd	3.6700e+00	0.0	2.5	0.0100	0.01	2.6e−02	0
	−2.4375e+02	1.5841e+00	−1.7333e+02	4.2705e+02	−2.3709e+01	1.0007e+00	−1.6976e+02	−2.4689e+02
^{111}Cd	$(n\gamma)^{112}$Cd	9.3980e+00	0.5	0.0	0.0100	0.01	6.4e−04	
	2.3709e+01	−1.6105e−02	2.3713e+00	−8.3363e+00	1.1228e+00	−2.1468e−01	2.7885e+00	4.8095e+01
	1.00 1.00	1.01 1.00	1.02 1.03	1.04 1.05	1.05 1.05	1.04 0.97	0.84 0.43	0.13 0.03
^{111}Cd	$(n\alpha)^{108}$Pd	5.9140e+00	0.5	0.0	0.0100	0.01	3.4e−03	0
	6.3666e+01	−3.9149e−01	3.6541e+01	−1.0793e+02	1.1971e+01	−8.8330e−01	3.7793e+01	6.3014e+01
^{112}Cd	$(n\gamma)^{113}$Cd	6.5400e+00	0.0	0.5	0.0100	0.01	3.3e−03	
	1.1419e+01	1.1173e−01	−1.0243e+01	1.5724e+01	5.9017e−01	−2.7742e−01	−8.4321e+00	3.4418e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.08 1.21	1.27 0.70	0.16 0.03
^{112}Cd	$(n\alpha)^{109}$Pd	2.6690e+00	0.0	2.5	0.0100	0.01	6.7e−02	0
	−4.2995e+02	1.7760e+00	−2.2268e+02	6.7522e+02	−4.8432e+01	2.8074e+00	−2.4052e+02	−4.3309e+02
^{113}Cd	$(n\gamma)^{114}$Cd	9.0430e+00	0.5	0.0	0.0100	0.01	5.6e−04	
	1.9492e+01	−1.6460e−02	1.6256e+00	−2.9792e+00	3.9676e−01	−1.5281e−01	1.4229e+00	4.3877e+01
	1.00 1.00	1.00 1.00	1.01 1.02	1.04 1.07	1.09 1.10	1.07 0.94	0.78 0.37	0.10 0.02
^{113}Cd	$(n\alpha)^{110}$Pd	4.9470e+00	0.5	0.0	0.0100	0.01	1.5e−02	0
	2.1296e+01	8.1525e−02	−3.4252e+00	−2.8833e+01	9.0728e+00	−9.0870e−01	2.5084e+00	2.0643e+01
^{114}Cd	$(n\gamma)^{115}$Cd	6.1410e+00	0.0	0.5	0.0100	0.01	2.1e−03	
	1.0156e+01	1.0251e−01	−9.7073e+00	1.6191e+01	3.9678e−01	−2.5741e−01	−8.2536e+00	3.3155e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.10 1.22	1.24 0.67	0.16 0.03
^{114}Cd	$(n\alpha)^{111}$Pd	1.6550e+00	0.0	2.5	0.0100	0.01	2.4e−02	0
	−2.0672e+02	−7.7848e+00	1.9356e+02	−2.8670e−02	−1.2288e+01	9.1115e−01	9.1556e+01	−2.0986e+02
^{115}Cd	$(n\gamma)^{116}$Cd	8.7000e+00	0.5	0.0	0.0100	0.01	8.8e−04	
	3.6994e+01	−1.4242e−01	1.4998e+01	−3.6472e+01	2.9829e+00	−3.2443e−01	1.4470e+01	6.1380e+01
	1.00 1.00	1.00 1.02	1.05 1.09	1.13 1.15	1.16 1.16	1.00 0.83	0.68 0.34	0.10 0.02
^{115}Cd	$(n\alpha)^{112}$Pd	3.8930e+00	0.5	0.0	0.0100	0.01	3.1e−02	0
	−1.0999e+02	9.0847e−01	−9.2846e+01	1.9729e+02	−6.4115e+00	1.7351e−02	−8.5612e+01	−1.1065e+02
^{116}Cd	$(n\gamma)^{117}$Cd	5.7770e+00	0.0	0.5	0.0100	0.01	2.1e−03	
	8.1704e+00	1.0594e−01	−1.0234e+01	1.8542e+01	8.9025e−02	−2.3131e−01	−8.9312e+00	3.1170e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.10 1.23	1.24 0.62	0.14 0.02
^{116}Cd	$(n\alpha)^{113}$Pd	6.2000e−01	0.0	2.5	0.0100	0.01	2.0e−02	0
	−4.8113e+02	−2.3145e+01	−3.2080e+02	8.3453e+02	−5.5625e+01	3.1470e+00	−3.2297e+02	−4.8427e+02
^{117}Cd	$(n\gamma)^{118}$Cd	8.3540e+00	0.5	0.0	0.0100	0.01	6.0e−04	
	3.6385e+01	−1.1835e−01	1.2989e+01	−3.4477e+01	3.0614e+00	−3.4101e−01	1.3016e+01	6.0771e+01
	1.00 1.00	1.01 1.04	1.08 1.11	1.14 1.16	1.16 1.16	1.08 0.97	0.82 0.42	0.12 0.03
^{117}Cd	$(n\alpha)^{114}$Pd	2.7140e+00	0.5	0.0	0.0100	0.01	2.8e−02	0
	−3.7579e+02	1.9369e+00	−2.2358e+02	6.1233e+02	−4.0829e+01	2.3138e+00	−2.2947e+02	−3.7645e+02
^{118}Cd	$(n\gamma)^{119}$Cd	5.2680e+00	0.0	1.5	0.0100	0.01	2.2e−03	0
	1.3826e+01	6.5711e−02	−5.9697e+00	7.1140e+00	1.1791e+00	−3.1922e−01	−4.7026e+00	3.6133e+01
^{119}Cd	$(n\gamma)^{120}$Cd	8.1390e+00	1.5	0.0	0.0100	0.01	2.2e−03	0
	−2.2383e+00	1.2654e−01	−1.4126e+01	3.5528e+01	−2.4474e+00	2.2620e−02	−1.4068e+01	2.2841e+01
^{120}Cd	$(n\gamma)^{121}$Cd	5.0460e+00	0.0	1.5	0.0100	0.01	2.0e−03	0
	1.6668e+01	3.7674e−02	−3.1827e+00	7.5108e−02	1.8385e+00	−3.7233e−01	−2.0500e+00	3.8975e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{121}Cd	$(n\gamma)^{122}$Cd	7.6310e+00	1.5	0.0	0.0300	0.01	1.0e−03	0
	2.5083e+01	−5.0840e−02	5.0924e+00	−1.6014e+01	2.1065e+00	−3.0544e−01	5.1623e+00	5.0162e+01
^{122}Cd	$(n\gamma)^{123}$Cd	4.9260e+00	0.0	1.5	0.0100	0.01	4.9e−03	0
	1.9496e+01	3.7780e−02	−2.5629e+00	−4.5120e+00	2.4343e+00	−4.2045e−01	−9.0429e−01	4.1803e+01
^{123}Cd	$(n\gamma)^{124}$Cd	7.4690e+00	1.5	0.0	0.0400	0.01	4.6e−03	0
	2.5343e+01	−1.1520e−02	2.1887e+00	−1.4310e+01	2.4344e+00	−3.5904e−01	3.3585e+00	5.0423e+01
^{124}Cd	$(n\gamma)^{125}$Cd	4.6820e+00	0.0	1.5	0.0100	0.01	5.8e−03	0
	1.2752e+01	6.2252e−02	−5.5825e+00	4.9530e+00	1.6110e+00	−3.5708e−01	−4.2070e+00	3.5060e+01
^{125}Cd	$(n\gamma)^{126}$Cd	7.0770e+00	1.5	0.0	0.1850	0.01	5.9e−04	0
	2.0806e+01	−4.0271e−04	5.8501e−01	−8.3111e+00	1.8864e+00	−2.9957e−01	1.4378e+00	4.5886e+01
^{126}Cd	$(n\gamma)^{127}$Cd	4.2710e+00	0.0	1.5	0.0250	0.01	2.3e−03	0
	1.3332e+01	4.2677e−02	−3.6967e+00	1.8125e+00	1.5050e+00	−3.0905e−01	−2.5877e+00	3.5639e+01
^{127}Cd	$(n\gamma)^{128}$Cd	6.8360e+00	1.5	0.0	0.5300	0.01	2.0e−04	0
	3.4241e−01	4.6321e−02	−6.8383e+00	2.1711e+01	−1.4023e+00	−1.7358e−02	−7.8631e+00	2.5423e+01
^{128}Cd	$(n\gamma)^{129}$Cd	4.8120e+00	0.0	5.5	0.0850	0.01	1.6e−03	0
	2.2282e+01	−1.8146e−02	3.1904e+00	−1.6134e+01	3.0137e+00	−3.9598e−01	4.3564e+00	4.3491e+01
^{129}Cd	$(n\gamma)^{130}$Cd	6.1650e+00	5.5	0.0	1.2900	0.01	2.0e−04	0
	2.8877e+01	−1.1157e−01	1.1445e+01	−3.2139e+01	3.4574e+00	−3.3562e−01	1.1348e+01	5.5056e+01
^{130}Cd	$(n\gamma)^{131}$Cd	2.0280e+00	0.0	3.5	1.0200	0.01	2.1e−04	0
	3.3422e+01	−5.8602e−02	9.6668e+00	−3.8955e+01	5.0192e+00	−5.0136e−01	1.2174e+01	5.5037e+01
^{131}Cd	$(n\gamma)^{132}$Cd	3.6670e+00	3.5	0.0	6.0900	0.01	1.4e−04	0
	2.5296e+01	−1.0483e−01	1.1045e+01	−3.0537e+01	3.2487e+00	−3.1553e−01	1.1011e+01	5.1070e+01
^{132}Cd	$(n\gamma)^{133}$Cd	1.3280e+00	0.0	1.5	2.6700	0.01	3.7e−04	0
	1.8632e+01	−2.4168e−02	3.3207e+00	−1.7206e+01	3.0620e+00	−3.7645e−01	4.3796e+00	4.0940e+01
^{133}Cd	$(n\gamma)^{134}$Cd	3.1440e+00	1.5	0.0	5.7600	0.01	2.3e−05	0
	1.1808e+01	−3.5015e−02	2.2624e+00	−6.6839e+00	1.4222e+00	−2.2318e−01	1.7422e+00	3.6889e+01
^{134}Cd	$(n\gamma)^{135}$Cd	1.0230e+00	0.0	1.5	2.2650	0.01	1.4e−03	0
	1.1820e+00	7.7411e−02	−7.8898e+00	1.2753e+01	5.7868e−01	−2.3551e−01	−6.9090e+00	2.3490e+01
^{135}Cd	$(n\gamma)^{136}$Cd	2.9580e+00	1.5	0.0	5.4900	0.01	6.1e−04	0
	1.5582e+00	3.7934e−02	−5.4863e+00	1.2071e+01	5.7999e−03	−1.5926e−01	−5.7566e+00	2.6639e+01
^{137}Cd	$(n\gamma)^{138}$Cd	2.7390e+00	1.5	0.0	5.7050	0.01	5.4e−04	0
	2.9665e+01	−4.3014e−02	6.5467e+00	−3.0488e+01	3.5884e+00	−4.0396e−01	8.5426e+00	5.4746e+01
^{138}Cd	$(n\gamma)^{139}$Cd	1.3400e−01	0.0	1.5	1.4500	0.01	8.8e−04	0
	−6.4512e+01	3.4308e−01	−3.9673e+01	1.1360e+02	−7.8895e+00	2.9077e−01	−4.1427e+01	−4.2203e+01
^{139}Cd	$(n\gamma)^{140}$Cd	2.7580e+00	1.5	0.0	4.0100	0.01	1.1e−03	0
	2.1322e+01	8.1578e−02	−5.1514e+00	−8.3559e+00	2.0312e+00	−3.1130e−01	−1.5623e+00	4.6404e+01
^{140}Cd	$(n\gamma)^{141}$Cd	9.9200e−01	0.0	1.5	0.7350	0.01	1.8e−03	0
	3.8860e+00	1.0471e−02	−1.8464e+00	4.7900e+00	5.4969e−01	−2.5231e−01	−2.1248e+00	2.6195e+01
^{141}Cd	$(n\gamma)^{142}$Cd	2.7650e+00	1.5	0.0	2.8150	0.01	2.0e−03	0
	1.4323e+01	9.3759e−02	−7.0123e+00	1.9437e+00	8.5051e−01	−2.3835e−01	−4.1651e+00	3.9404e+01
^{142}Cd	$(n\gamma)^{143}$Cd	5.8700e−01	0.0	2.5	0.7600	0.01	3.0e−03	0
	1.1179e+01	−4.1140e−02	4.3759e+00	−1.1504e+01	1.9556e+00	−3.6222e−01	4.2942e+00	3.3083e+01
^{143}Cd	$(n\gamma)^{144}$Cd	2.4390e+00	2.5	0.0	3.5100	0.01	2.4e−03	0
	1.0240e+01	9.0341e−02	−7.5495e+00	5.9052e+00	5.6464e−01	−2.2944e−01	−5.2958e+00	3.5727e+01
^{144}Cd	$(n\gamma)^{145}$Cd	4.8800e−01	0.0	2.5	0.9650	0.01	4.1e−03	0
	9.1189e+00	4.8611e−03	5.3668e−01	−6.1588e+00	1.8344e+00	−3.7468e−01	1.3596e+00	3.1023e+01
^{145}Cd	$(n\gamma)^{146}$Cd	2.2080e+00	2.5	0.0	3.6450	0.01	2.9e−03	0
	5.2463e+00	1.1579e−01	−1.0435e+01	1.3778e+01	−6.4510e−02	−1.9137e−01	−8.2460e+00	3.0733e+01
^{146}Cd	$(n\gamma)^{147}$Cd	3.9800e−01	0.0	0.5	n.c.	0.01	4.2e−03	0
	−6.4342e+00	2.1392e−02	−4.2315e+00	1.4711e+01	2.6290e−02	−2.5757e−01	−5.3296e+00	1.6568e+01
^{147}Cd	$(n\gamma)^{148}$Cd	2.0410e+00	0.5	0.0	n.c.	0.01	3.5e−03	0
	4.7541e+00	1.8872e−01	−1.6544e+01	2.0616e+01	−2.1834e−01	−1.9229e−01	−1.2733e+01	2.9143e+01
^{148}Cd	$(n\gamma)^{149}$Cd	1.6400e−01	0.0	2.5	n.c.	0.01	4.8e−03	0
	−9.3976e+00	6.8598e−02	−7.3478e+00	1.9478e+01	−2.1312e−01	−2.5343e−01	−7.3569e+00	1.2506e+01
^{149}Cd	$(n\gamma)^{150}$Cd	1.7210e+00	2.5	0.0	n.c.	0.01	3.5e−03	0
	−3.2572e+00	1.5516e−01	−1.4913e+01	2.6143e+01	−9.5404e−01	−1.4427e−01	−1.2848e+01	2.2230e+01
^{151}Cd	$(n\gamma)^{152}$Cd	1.2620e+00	2.5	0.0	n.c.	0.01	4.6e−03	0
	−1.3657e+01	2.0164e−01	−2.0274e+01	4.1093e+01	−1.9538e+00	−9.4529e−02	−1.8403e+01	1.1831e+01
^{153}Cd	$(n\gamma)^{154}$Cd	1.0750e+00	3.5	0.0	n.c.	0.01	4.9e−03	0
	−1.4370e+01	2.1340e−01	−2.1093e+01	4.1428e+01	−1.7849e+00	−1.1821e−01	−1.8872e+01	1.1405e+01
^{155}Cd	$(n\gamma)^{156}$Cd	1.1830e+00	4.5	0.0	n.c.	0.01	5.4e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	5.1799e+00	−4.1308e−02	3.4238e+00	−5.0907e+00	8.9173e−01	−2.6540e−01	2.5758e+00	3.1179e+01
^{157}Cd	$(n\gamma)^{158}$Cd	1.0110e+00	0.5	0.0	n.c.	0.01	6.8e−03	0
	−6.7236e+01	5.4448e−01	−5.8507e+01	1.3676e+02	−8.5918e+00	2.9495e−01	−5.6408e+01	−4.2847e+01
^{159}Cd	$(n\gamma)^{160}$Cd	8.5500e−01	1.5	0.0	n.c.	0.01	1.2e−02	0
	−3.8385e+01	3.6468e−01	−3.8331e+01	8.2582e+01	−3.9121e+00	−4.5799e−02	−3.5970e+01	−1.3302e+01
^{110}In	$(np)^{110}$Cd	4.6600e+00	7.0	0.0	0.0100	0.01	4.8e−03	
	7.7848e+01	−1.9094e−01	3.4588e+01	−1.0536e+02	8.0630e+00	−5.1377e−01	4.0306e+01	8.0556e+01
	1.07 2.99	7.00 11.19	14.81 17.75	20.15 22.09	23.59 24.72	24.84 18.33	13.21 10.62	10.32 5.96
^{110}In	$(n\alpha)^{107}$Ag	7.5800e+00	7.0	0.5	0.0100	0.01	3.8e−03	0
	4.1478e+01	−3.5901e−01	3.0303e+01	−6.8118e+01	5.8224e+00	−3.3382e−01	2.8219e+01	4.2148e+01
^{111}In	$(n\gamma)^{112}$In	7.6780e+00	4.5	1.0	0.0100	0.01	2.3e−03	
	−1.3380e+01	2.7158e−01	−2.7178e+01	6.3967e+01	−4.6273e+00	1.8267e−01	−2.5493e+01	1.1516e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.94	0.71 0.22	0.06 0.02
^{111}In	$(np)^{111}$Cd	1.6480e+00	4.5	0.5	0.0100	0.01	6.1e−03	0
	−1.4566e+02	9.6637e−01	−1.0229e+02	2.6599e+02	−1.7210e+01	8.9893e−01	−1.0142e+02	−1.4405e+02
^{111}In	$(n\alpha)^{108}$Ag	4.8620e+00	4.5	1.0	0.0100	0.01	4.5e−02	0
	−8.9275e+01	8.0237e−01	−8.5452e+01	1.7639e+02	−5.4562e+00	−6.0835e−02	−7.7710e+01	−8.9417e+01
^{112}In	$(n\gamma)^{113}$In	9.4420e+00	1.0	4.5	0.0100	0.01	1.5e−04	
	1.6917e+01	1.9370e−02	−1.2125e+00	4.7977e+00	−8.2742e−01	−6.1813e−03	−1.0317e+00	3.9406e+01
	1.00 1.00	1.00 1.01	1.02 1.04	1.05 1.06	1.07 1.08	0.97 0.73	0.52 0.24	0.09 0.03
^{112}In	$(np)^{112}$Cd	3.3680e+00	1.0	0.0	0.0100	0.01	5.5e−03	0
	6.6129e+01	−1.7044e−01	2.5979e+01	−8.7126e+01	8.1461e+00	−5.5339e−01	2.9874e+01	6.7227e+01
^{112}In	$(n\alpha)^{109}$Ag	6.3710e+00	1.0	0.5	0.0100	0.01	3.5e−04	0
	4.6649e+01	−2.9117e−01	2.6719e+01	−7.6035e+01	8.4235e+00	−5.9641e−01	2.7436e+01	4.5709e+01
^{113}In	$(n\gamma)^{114}$In	7.2740e+00	4.5	1.0	0.0100	0.01	2.5e−03	
	−2.0517e+01	3.0671e−01	−3.1279e+01	7.6171e+01	−5.8297e+00	2.7368e−01	−2.9824e+01	4.3798e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.91	0.63 0.17	0.04 0.01
^{113}In	$(np)^{113}$Cd	4.6600e−01	4.5	0.5	0.0100	0.01	3.7e−02	0
	4.7127e+01	−1.4262e+00	1.4584e+02	−2.0787e+02	8.1178e+00	−3.7607e−01	1.2357e+02	4.8736e+01
^{113}In	$(n\alpha)^{110}$Ag	3.7380e+00	4.5	1.0	0.0100	0.01	4.7e−02	0
	−2.7722e+02	1.6147e+00	−1.9198e+02	4.8233e+02	−2.8721e+01	1.4047e+00	−1.8980e+02	−2.7736e+02
^{114}In	$(n\gamma)^{115}$In	9.0390e+00	1.0	4.5	0.0100	0.01	4.8e−04	
	2.5069e+01	−4.2257e−02	5.2477e+00	−1.0963e+01	2.5264e−01	−7.0038e−02	5.2038e+00	4.7558e+01
	1.00 1.00	1.00 1.00	1.01 1.02	1.03 1.04	1.04 1.04	0.81 0.55	0.38 0.17	0.06 0.02
^{114}In	$(np)^{114}$Cd	2.2350e+00	1.0	0.0	0.0100	0.01	9.8e−04	0
	6.8664e+01	−2.0242e−01	2.9818e+01	−1.0065e+02	1.0780e+01	−8.4151e−01	3.4145e+01	6.9763e+01
^{114}In	$(n\alpha)^{111}$Ag	5.2950e+00	1.0	0.5	0.0100	0.01	5.4e−04	0
	4.3416e+01	−2.7363e−01	2.5157e+01	−7.9020e+01	1.0914e+01	−9.0496e−01	2.6761e+01	4.2476e+01
^{115}In	$(n\gamma)^{116}$In	6.7840e+00	4.5	1.0	0.0100	0.01	2.0e−03	
	−1.9878e+01	2.6112e−01	−2.7866e+01	7.1796e+01	−5.7083e+00	2.7162e−01	−2.7450e+01	5.0186e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.87	0.58 0.15	0.03 0.01
^{115}In	$(n\alpha)^{112}$Ag	2.7350e+00	4.5	0.0	0.0100	0.01	4.7e−02	0
	−4.5016e+02	2.1549e+00	−2.5760e+02	7.3236e+02	−5.1382e+01	2.9685e+00	−2.6911e+02	−4.4921e+02
^{116}In	$(n\gamma)^{117}$In	8.7640e+00	1.0	4.5	0.0100	0.01	7.4e−05	
	2.5886e+01	−4.4222e−02	5.6001e+00	−1.2416e+01	3.4002e−01	−7.7801e−02	5.6552e+00	4.8375e+01
	1.00 1.00	1.01 1.03	1.05 1.07	1.08 1.07	1.05 1.03	0.77 0.53	0.35 0.14	0.05 0.02
^{116}In	$(np)^{116}$Cd	1.2530e+00	1.0	0.0	0.0100	0.01	4.5e−03	0
	−7.5060e+01	5.0636e−01	−5.1731e+01	1.3359e+02	−7.8850e+00	4.3075e−01	−5.0791e+01	−7.3961e+01
^{116}In	$(n\alpha)^{113}$Ag	4.4310e+00	1.0	0.5	0.0100	0.01	1.0e−02	0
	−3.6026e+01	2.8059e−01	−3.3033e+01	6.0813e+01	2.0993e+00	−4.5695e−01	−2.9238e+01	−3.6968e+01
^{117}In	$(n\gamma)^{118}$In	6.3580e+00	4.5	1.0	0.0100	0.01	2.4e−03	
	−2.0443e+01	2.6573e−01	−2.8378e+01	7.2403e+01	−5.6437e+00	2.5648e−01	−2.7892e+01	4.4537e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.97 0.85	0.58 0.14	0.03 0.01
^{117}In	$(n\alpha)^{114}$Ag	1.6490e+00	4.5	1.0	0.0100	0.01	9.7e−03	0
	−2.2319e+02	−1.1664e+01	2.6427e+02	−5.4526e+01	−1.0694e+01	8.4883e−01	1.2928e+02	−2.2333e+02
^{118}In	$(n\gamma)^{119}$In	8.5450e+00	1.0	4.5	0.0100	0.01	8.9e−05	
	3.7141e+01	−7.4042e−02	1.0200e+01	−3.0167e+01	2.0909e+00	−2.1068e−01	1.1303e+01	5.9630e+01
	1.00 1.04	1.09 1.13	1.13 1.13	1.12 1.09	1.05 1.02	0.70 0.50	0.36 0.17	0.06 0.02
^{118}In	$(np)^{118}$Cd	2.6300e−01	1.0	0.0	0.0100	0.01	6.4e−03	0
	1.0149e+02	−2.8388e−01	8.1082e+01	−2.0478e+02	1.1606e+01	−6.0899e−01	9.8227e+01	1.0259e+02
^{118}In	$(n\alpha)^{115}$Ag	3.4060e+00	1.0	0.5	0.0100	0.01	1.8e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−2.0610e+02	7.4878e−01	−1.2012e+02	3.2679e+02	−1.8188e+01	8.3057e−01	−1.2483e+02	−2.0705e+02
^{119}In	$(n\gamma)^{120}$In	6.1010e+00	4.5	1.0	0.0100	0.01	3.1e−03	0
	−2.2517e+01	2.8199e−01	−3.0106e+01	7.5726e+01	−5.7557e+00	2.5385e−01	−2.9480e+01	2.3802e+00
^{120}In	$(n\gamma)^{121}$In	8.1770e+00	1.0	4.5	0.0100	0.01	2.1e−04	0
	2.9534e+01	4.8901e−02	−1.2103e+00	−1.0532e+01	1.1035e+00	−1.6585e−01	1.6902e+00	5.2023e+01
^{121}In	$(n\gamma)^{122}$In	5.8100e+00	4.5	1.0	0.0100	0.01	2.6e−03	0
	−1.9268e+01	2.5572e−01	−2.7479e+01	6.8619e+01	−5.0422e+00	1.9824e−01	−2.6927e+01	5.6296e+00
^{122}In	$(n\gamma)^{123}$In	7.9240e+00	1.0	4.5	0.0100	0.01	1.8e−04	0
	2.9900e+01	4.5260e−02	−7.5638e−01	−1.1959e+01	1.2057e+00	−1.6908e−01	2.1884e+00	5.2389e+01
^{123}In	$(n\gamma)^{124}$In	5.5200e+00	4.5	3.0	0.0100	0.01	1.7e−03	0
	−1.1325e+01	1.9958e−01	−2.1545e+01	5.2582e+01	−3.5595e+00	9.1468e−02	−2.1031e+01	1.2725e+01
^{124}In	$(n\gamma)^{125}$In	7.6750e+00	3.0	4.5	0.0100	0.01	2.5e−05	0
	3.0233e+01	−4.9986e−02	6.4911e+00	−2.0575e+01	1.5232e+00	−1.7686e−01	7.2208e+00	5.3570e+01
^{125}In	$(n\gamma)^{126}$In	5.4040e+00	4.5	0.0	0.0100	0.01	1.2e−03	0
	−1.0206e+00	1.2786e−01	−1.3886e+01	3.1956e+01	−1.6635e+00	−4.3683e−02	−1.3403e+01	2.4976e+01
^{126}In	$(n\gamma)^{127}$In	7.2530e+00	0.0	4.5	0.0100	0.01	6.5e−04	0
	3.4310e+01	−1.9226e−01	1.8777e+01	−3.8539e+01	2.2492e+00	−1.9464e−01	1.6861e+01	5.5701e+01
^{127}In	$(n\gamma)^{128}$In	5.4380e+00	4.5	3.0	0.0100	0.01	7.0e−04	0
	6.6946e+00	6.4712e−02	−7.2436e+00	1.5010e+01	−2.2958e−01	−1.3118e−01	−6.9154e+00	3.0745e+01
^{128}In	$(n\gamma)^{129}$In	6.6860e+00	3.0	4.5	0.0300	0.01	2.6e−04	0
	1.6181e+01	5.2822e−03	−7.6366e−01	−1.1107e+00	7.5602e−01	−1.6703e−01	−5.2955e−01	3.9519e+01
^{129}In	$(n\gamma)^{130}$In	5.0900e+00	4.5	0.0	0.0350	0.01	4.2e−05	0
	2.0584e+01	−4.5054e−02	4.2682e+00	−1.3093e+01	1.7726e+00	−2.2411e−01	4.1993e+00	4.6581e+01
^{130}In	$(n\gamma)^{131}$In	6.2770e+00	0.0	4.5	0.1150	0.01	1.8e−03	0
	−1.5607e+01	8.2892e−02	−1.4866e+01	4.3964e+01	−2.5203e+00	8.0111e−02	−1.7439e+01	5.7846e+00
^{131}In	$(n\gamma)^{132}$In	2.8930e+00	4.5	7.0	0.1850	0.01	2.0e−03	0
	4.9595e+01	−2.4610e−01	2.6394e+01	−7.2131e+01	6.9244e+00	−5.7114e−01	2.6435e+01	7.2884e+01
^{132}In	$(n\gamma)^{133}$In	3.7760e+00	7.0	4.5	1.1700	0.01	1.1e−04	0
	2.7856e+01	−8.7603e−02	9.9265e+00	−2.9459e+01	2.7731e+00	−2.4630e−01	1.0378e+01	5.1955e+01
^{133}In	$(n\gamma)^{134}$In	1.7740e+00	4.5	5.0	0.7000	0.01	2.1e−04	0
	3.0359e+01	−1.4706e−01	1.4933e+01	−4.0679e+01	4.1651e+00	−3.7753e−01	1.4625e+01	5.3959e+01
^{134}In	$(n\gamma)^{135}$In	3.2560e+00	5.0	4.5	1.8900	0.01	5.3e−05	0
	2.8027e+01	−9.2194e−02	9.9398e+00	−2.9629e+01	2.7575e+00	−2.5873e−01	1.0232e+01	5.1817e+01
^{135}In	$(n\gamma)^{136}$In	1.5020e+00	4.5	2.0	0.4350	0.01	9.8e−05	0
	2.5393e+01	−7.1737e−02	8.2477e+00	−2.9046e+01	3.6629e+00	−3.9139e−01	9.1041e+00	4.9781e+01
^{136}In	$(n\gamma)^{137}$In	2.9510e+00	2.0	4.5	1.3100	0.01	3.0e−06	0
	3.1762e+01	−2.7223e−02	5.8839e+00	−2.9574e+01	3.0251e+00	−2.9406e−01	8.3710e+00	5.4763e+01
^{137}In	$(n\gamma)^{138}$In	6.6100e−01	4.5	5.0	0.3000	0.01	9.9e−04	0
	6.0919e+00	2.2682e−02	−2.6555e+00	6.1217e−01	1.7695e+00	−3.1969e−01	−2.1248e+00	2.9691e+01
^{138}In	$(n\gamma)^{139}$In	3.0050e+00	5.0	4.5	1.1300	0.01	2.3e−05	0
	3.2289e+01	−4.0050e−02	6.3945e+00	−3.0877e+01	3.1881e+00	−3.1638e−01	8.5527e+00	5.6080e+01
^{139}In	$(n\gamma)^{140}$In	9.5500e−01	4.5	2.0	0.1050	0.01	1.4e−03	0
	−2.3747e+00	9.4501e−02	−9.9734e+00	1.8585e+01	−7.3709e−02	−1.8551e−01	−9.0963e+00	2.2013e+01
^{140}In	$(n\gamma)^{141}$In	2.0270e+00	2.0	0.5	1.1150	0.01	2.2e−04	0
	2.3913e+01	2.4276e−02	1.4119e−01	−1.5205e+01	1.9996e+00	−2.6400e−01	2.6620e+00	4.8525e+01
^{141}In	$(n\gamma)^{142}$In	1.4590e+00	0.5	2.0	0.0950	0.01	5.5e−04	0
	8.6910e+00	2.1011e−01	−1.8083e+01	1.8355e+01	2.4708e−01	−1.8534e−01	−1.3326e+01	3.1470e+01
^{142}In	$(n\gamma)^{143}$In	2.7070e+00	2.0	3.5	0.2850	0.01	5.6e−04	0
	1.7248e+01	1.4992e−01	−1.1718e+01	4.9938e+00	9.3095e−01	−2.1860e−01	−7.3857e+00	4.0473e+01
^{143}In	$(n\gamma)^{144}$In	1.0520e+00	3.5	1.0	0.0550	0.01	2.3e−03	0
	1.0173e+01	8.2676e−02	−7.0268e+00	3.5794e+00	1.2254e+00	−2.8607e−01	−4.8072e+00	3.4850e+01
^{144}In	$(n\gamma)^{145}$In	2.5390e+00	1.0	3.5	0.4000	0.01	3.4e−04	0
	−2.0962e+00	3.2609e−01	−3.0306e+01	4.4269e+01	−1.4089e+00	−9.2778e−02	−2.4728e+01	2.0618e+01
^{145}In	$(n\gamma)^{146}$In	9.8400e−01	3.5	4.0	0.0550	0.01	2.8e−03	0
	5.3893e+00	1.0646e−01	−9.7550e+00	1.1118e+01	5.8169e−01	−2.4578e−01	−7.6171e+00	2.8967e+01
^{146}In	$(n\gamma)^{147}$In	2.2200e+00	4.0	3.5	0.4750	0.01	8.2e−04	0
	1.5938e+01	1.0413e−01	−8.2492e+00	1.2901e+00	1.0624e+00	−2.3229e−01	−5.0340e+00	3.9752e+01
^{147}In	$(n\gamma)^{148}$In	9.1000e−01	3.5	4.0	0.0800	0.01	2.8e−03	0
	−2.3626e−01	1.3486e−01	−1.2978e+01	2.0308e+01	−2.5826e−01	−1.8611e−01	−1.0951e+01	2.3342e+01
^{148}In	$(n\gamma)^{149}$In	2.0700e+00	4.0	3.5	0.5400	0.01	8.9e−04	0
	1.4809e+01	1.0253e−01	−8.2484e+00	2.1640e+00	9.4054e−01	−2.2593e−01	−5.1861e+00	3.8623e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{149}In	$(n\gamma)^{150}$In	6.7800e−01	3.5	4.0	n.c.	0.01	3.5e−03	0
	−4.2900e+00	1.5680e−01	−1.5303e+01	2.5570e+01	−4.3433e−01	−1.9149e−01	−1.3169e+01	1.9288e+01
^{150}In	$(n\gamma)^{151}$In	1.7610e+00	4.0	0.5	n.c.	0.01	9.9e−04	0
	1.3545e+01	9.8676e−02	−7.9652e+00	2.2330e+00	9.4439e−01	−2.3037e−01	−5.0386e+00	3.8745e+01
^{151}In	$(n\gamma)^{152}$In	2.9200e−01	0.5	3.0	n.c.	0.01	3.5e−03	0
	−3.3134e+01	3.5846e−01	−3.6794e+01	7.6484e+01	−3.7827e+00	−4.0497e−03	−3.3880e+01	−1.0691e+01
^{152}In	$(n\gamma)^{153}$In	1.3520e+00	3.0	0.5	n.c.	0.01	1.2e−03	0
	9.1716e+00	1.4887e−01	−1.2684e+01	1.0223e+01	6.9278e−01	−2.3154e−01	−9.0296e+00	3.4120e+01
^{153}In	$(n\gamma)^{154}$In	5.7000e−02	0.5	4.0	n.c.	0.01	2.2e−03	0
	−3.1791e+01	2.1363e−01	−2.2570e+01	5.7872e+01	−3.5872e+00	2.4028e−02	−2.2165e+01	−9.5987e+00
^{154}In	$(n\gamma)^{155}$In	1.2840e+00	4.0	0.5	n.c.	0.01	1.7e−03	0
	7.9465e+00	1.4745e−01	−1.2750e+01	1.0773e+01	7.7090e−01	−2.5081e−01	−9.2207e+00	3.3147e+01
^{156}In	$(n\gamma)^{157}$In	1.1400e+00	5.0	0.5	n.c.	0.01	1.5e−03	0
	7.8438e+00	1.0165e−01	−8.8247e+00	6.4839e+00	7.6916e−01	−2.4198e−01	−6.3055e+00	3.3245e+01
^{158}In	$(n\gamma)^{159}$In	1.1020e+00	0.0	0.5	n.c.	0.01	3.4e−04	0
	−2.8609e+01	4.7716e−01	−4.7259e+01	8.5592e+01	−4.0493e+00	3.2978e−02	−4.1493e+01	−5.6061e+00
^{160}In	$(n\gamma)^{161}$In	7.0200e−01	5.0	4.5	n.c.	0.01	1.6e−03	0
	−3.4456e+01	1.4731e+00	−1.1070e+02	1.5430e+02	−7.9903e+00	2.6675e−01	−7.8328e+01	−1.0664e+01
^{162}In	$(n\gamma)^{163}$In	8.5600e−01	5.0	4.5	n.c.	0.01	2.1e−01	0
	2.1483e+02	−1.4294e+00	1.6754e+02	−4.0576e+02	2.8607e+01	−1.9711e+00	1.6750e+02	2.3862e+02
^{111}Sn	$(np)^{111}$In	3.2270e+00	3.5	4.5	0.0100	0.01	2.1e−03	
	6.2793e+01	−1.3749e−01	2.2259e+01	−8.0473e+01	9.3102e+00	−7.5411e−01	2.6374e+01	6.2570e+01
	1.00 1.00	1.00 1.00	0.99 0.98	0.98 0.97	0.96 0.95	0.96 1.24	2.16 6.24	9.54 10.25
^{111}Sn	$(n\alpha)^{108}$Cd	8.9560e+00	3.5	0.0	0.0100	0.01	3.0e−04	0
	2.2644e+01	−1.2682e−01	8.7907e+00	−2.1375e+01	2.0725e+00	−8.5093e−02	8.4299e+00	2.3378e+01
^{112}Sn	$(n\gamma)^{113}$Sn	7.7430e+00	0.0	0.5	0.0100	0.01	4.6e−03	
	2.8827e+01	4.8822e−02	−1.8039e+00	−1.1980e+01	3.2495e+00	−4.6709e−01	1.1197e+00	5.1827e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.05	1.14 0.78	0.20 0.04
^{112}Sn	$(np)^{112}$In	1.1900e−01	0.0	1.0	0.0100	0.01	7.3e−03	0
	−1.5536e+01	2.1633e+00	−1.1858e+02	1.2728e+02	−6.4316e+00	1.3372e−01	−5.5527e+01	−1.6634e+01
^{112}Sn	$(n\alpha)^{109}$Cd	5.4940e+00	0.0	2.5	0.0100	0.01	4.3e−02	0
	3.2496e+01	−1.2898e+00	4.3397e+01	−8.6502e+01	1.3853e+01	−1.3643e+00	3.2539e+01	2.9358e+01
^{113}Sn	$(n\gamma)^{114}$Sn	1.0299e+01	0.5	0.0	0.0100	0.01	1.9e−03	
	1.6883e+01	7.7840e−02	−5.9734e+00	7.9159e+00	2.1800e−01	−1.7557e−01	−4.2852e+00	4.1268e+01
	1.00 1.04	1.09 1.15	1.20 1.23	1.26 1.28	1.29 1.31	1.39 1.42	1.31 0.63	0.18 0.04
^{113}Sn	$(np)^{113}$In	1.8180e+00	0.5	4.5	0.0100	0.01	9.1e−03	0
	5.2987e+01	1.2474e−01	5.2107e+00	−6.1816e+01	1.0291e+01	−9.8192e−01	1.6110e+01	5.1378e+01
^{113}Sn	$(n\alpha)^{110}$Cd	7.6660e+00	0.5	0.0	0.0100	0.01	2.8e−03	
	4.4424e+01	−1.9817e−01	1.9001e+01	−6.1317e+01	6.9532e+00	−4.7633e−01	2.0455e+01	4.3771e+01
	1.00 0.97	0.89 0.80	0.73 0.69	0.66 0.63	0.62 0.61	0.66 0.90	1.45 4.99	19.90 41.79
^{114}Sn	$(n\gamma)^{115}$Sn	7.5460e+00	0.0	0.5	0.0100	0.01	6.2e−03	
	2.0727e+01	7.6082e−02	−5.7403e+00	6.3228e−01	2.1811e+00	−4.0078e−01	−3.3930e+00	4.3727e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.04	1.12 0.67	0.15 0.03
^{114}Sn	$(n\alpha)^{111}$Cd	4.3440e+00	0.0	0.5	0.0100	0.01	8.4e−02	0
	−1.5506e+02	1.3962e+00	−1.4096e+02	2.9792e+02	−1.1255e+01	9.1596e−02	−1.2940e+02	−1.5710e+02
^{115}Sn	$(n\gamma)^{116}$Sn	9.5640e+00	0.5	0.0	0.0100	0.01	3.6e−03	
	−5.4081e+00	2.4120e−01	−2.3456e+01	4.9426e+01	−2.5518e+00	−2.7359e−02	−2.1171e+01	1.8978e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.14 1.29	1.25 0.55	0.13 0.03
^{115}Sn	$(np)^{115}$In	2.8800e−01	0.5	4.5	0.0100	0.01	7.4e−02	0
	2.6811e+02	−1.5714e+00	2.1952e+02	−5.2787e+02	3.5679e+01	−2.2901e+00	2.3124e+02	2.6650e+02
^{115}Sn	$(n\alpha)^{112}$Cd	6.1960e+00	0.5	0.0	0.0100	0.01	1.0e−03	0
	6.3915e+01	−1.3559e+00	7.0445e+01	−1.4293e+02	1.3750e+01	−1.0038e+00	5.8594e+01	6.3262e+01
^{116}Sn	$(n\gamma)^{117}$Sn	6.9450e+00	0.0	0.5	0.0100	0.01	6.8e−03	
	1.5303e+01	1.0822e−01	−9.2915e+00	9.7449e+00	1.4991e+00	−3.6402e−01	−6.9328e+00	3.8303e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.04	1.10 0.60	0.12 0.02
^{116}Sn	$(n\alpha)^{113}$Cd	3.1730e+00	0.0	0.5	0.0100	0.01	6.1e−02	0
	−4.0194e+02	2.0721e+00	−2.5800e+02	6.7917e+02	−4.2538e+01	2.1557e+00	−2.6154e+02	−4.0398e+02
^{117}Sn	$(n\gamma)^{118}$Sn	9.3260e+00	0.5	0.0	0.0100	0.01	2.5e−03	
	−2.5637e+00	1.9275e−01	−1.9338e+01	4.1766e+01	−2.0660e+00	−5.6980e−02	−1.7805e+01	2.1822e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.02	1.03 1.06	1.34 1.48	1.40 0.61	0.14 0.03
^{117}Sn	$(n\alpha)^{114}$Cd	5.2700e+00	0.5	0.0	0.0100	0.01	1.2e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	7.2704e+01	−1.0444e+00	5.9699e+01	−1.5039e+02	1.8048e+01	−1.5048e+00	5.4696e+01	7.2050e+01
^{118}Sn	$(n\gamma)^{119}$Sn	6.4850e+00	0.0	0.5	0.0100	0.01	5.5e−03	
	1.5871e+01	9.2873e−02	−7.9706e+00	7.1490e+00	1.7409e+00	−3.8541e−01	−5.8331e+00	3.8871e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.05	1.11 0.63	0.13 0.02
^{118}Sn	$(n\alpha)^{115}$Cd	2.0850e+00	0.0	0.5	0.0100	0.01	1.5e−01	0
	−5.3345e+02	2.6619e−01	−2.2223e+02	7.8126e+02	−6.0903e+01	3.7311e+00	−2.5948e+02	−5.3549e+02
^{119}Sn	$(n\gamma)^{120}$Sn	9.1070e+00	0.5	0.0	0.0100	0.01	3.1e−03	
	1.0397e+01	7.2639e−02	−7.3316e+00	1.4839e+01	−1.4206e−01	−1.8283e−01	−6.6896e+00	3.4784e+01
	1.02 1.06	1.15 1.27	1.37 1.46	1.54 1.61	1.66 1.72	1.92 1.91	1.72 0.73	0.16 0.03
^{119}Sn	$(n\alpha)^{116}$Cd	4.3000e+00	0.5	0.0	0.0100	0.01	3.8e−02	0
	−6.7631e+01	2.1318e−01	−5.5578e+01	1.1210e+02	1.3915e+00	−5.9538e−01	−5.3112e+01	−6.8286e+01
^{120}Sn	$(n\gamma)^{121}$Sn	6.1710e+00	0.0	1.5	0.0100	0.01	6.3e−03	
	1.9385e+01	6.5697e−02	−5.1161e+00	−3.4633e−01	2.4536e+00	−4.4526e−01	−3.0269e+00	4.1692e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.06	1.17 0.71	0.14 0.02
^{120}Sn	$(n\alpha)^{117}$Cd	9.7100e−01	0.0	0.5	0.0100	0.01	2.9e−02	0
	−4.6817e+02	−1.9033e+01	−1.6696e+02	6.5754e+02	−4.9319e+01	2.8977e+00	−2.1621e+02	−4.7022e+02
^{121}Sn	$(n\gamma)^{122}$Sn	8.8150e+00	1.5	0.0	0.0150	0.01	2.1e−03	
	1.0979e+01	1.0335e−01	−9.8019e+00	1.5999e+01	9.4786e−02	−2.0531e−01	−8.2908e+00	3.6059e+01
	1.08 1.09	1.10 1.10	1.10 1.11	1.12 1.12	1.12 1.13	1.19 1.23	1.17 0.60	0.15 0.03
^{121}Sn	$(n\alpha)^{118}$Cd	3.1550e+00	1.5	0.0	0.0150	0.01	4.1e−02	0
	−3.2021e+02	1.7870e+00	−2.0764e+02	5.3409e+02	−3.1470e+01	1.5227e+00	−2.0808e+02	−3.2017e+02
^{122}Sn	$(n\gamma)^{123}$Sn	5.9460e+00	0.0	5.5	0.0100	0.01	4.5e−03	
	2.2607e+01	3.3689e−02	−1.9020e+00	−7.6790e+00	2.9093e+00	−4.6261e−01	−2.7815e−02	4.3815e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.07	1.17 0.76	0.17 0.03
^{123}Sn	$(n\gamma)^{124}$Sn	8.4890e+00	5.5	0.0	0.0250	0.01	1.5e−03	
	2.2265e+01	1.4825e−02	−7.0161e−01	−6.7072e+00	1.9693e+00	−3.3206e−01	4.6583e−01	4.8444e+01
	1.00 1.00	0.99 0.99	0.98 0.98	0.98 0.97	0.96 0.96	0.91 0.85	0.78 0.42	0.11 0.02
^{123}Sn	$(n\alpha)^{120}$Cd	1.8010e+00	5.5	0.0	0.0250	0.01	1.4e−02	0
	−2.2565e+02	−9.6295e+00	2.2321e+02	−1.6923e+01	−9.9220e+00	7.3403e−01	1.0158e+02	−2.2451e+02
^{124}Sn	$(n\gamma)^{125}$Sn	5.7330e+00	0.0	5.5	0.0100	0.01	1.3e−03	
	2.2888e+01	5.0802e−03	5.3379e−01	−1.0891e+01	2.7833e+00	−4.1565e−01	1.8422e+00	4.4097e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.04	1.08 0.71	0.21 0.04
^{125}Sn	$(n\gamma)^{126}$Sn	8.1930e+00	5.5	0.0	0.0600	0.01	7.2e−04	
	3.1196e+01	−7.1325e−02	7.8198e+00	−2.6299e+01	3.4430e+00	−4.1697e−01	8.3694e+00	5.7375e+01
	1.00 0.98	0.98 0.98	0.99 0.98	0.98 0.98	0.98 0.98	0.93 0.87	0.79 0.49	0.15 0.03
^{126}Sn	$(n\gamma)^{127}$Sn	5.5590e+00	0.0	5.5	0.0100	0.01	8.0e−04	
	2.8064e+01	−3.5862e−02	4.8683e+00	−2.2029e+01	3.6526e+00	−4.6094e−01	6.0986e+00	4.9273e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.03	1.09 0.86	0.31 0.07
^{127}Sn	$(n\gamma)^{128}$Sn	7.8990e+00	5.5	0.0	0.1700	0.01	1.1e−03	
	4.5542e+01	−1.7784e−01	1.9056e+01	−5.4724e+01	5.7099e+00	−5.5453e−01	1.9339e+01	7.1721e+01
	1.06 1.06	1.05 1.05	1.04 1.04	1.04 1.03	1.03 1.03	0.97 0.89	0.81 0.62	0.25 0.05
^{128}Sn	$(n\gamma)^{129}$Sn	5.3650e+00	0.0	1.5	0.0200	0.01	6.9e−05	
	1.6322e+01	1.5598e−02	−1.2840e+00	−2.3265e+00	1.3257e+00	−2.2684e−01	−5.7576e−01	3.8630e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.95 0.67	0.35 0.12
^{129}Sn	$(n\gamma)^{130}$Sn	7.6840e+00	1.5	0.0	0.5300	0.01	7.6e−04	0
	3.4397e+01	−1.0230e−01	1.1191e+01	−3.4730e+01	3.7953e+00	−3.7583e−01	1.1709e+01	5.9477e+01
^{130}Sn	$(n\gamma)^{131}$Sn	5.2120e+00	0.0	1.5	0.1700	0.01	5.7e−04	0
	−3.9016e+00	1.2856e−01	−1.3878e+01	3.2856e+01	−2.2577e+00	9.4020e−02	−1.3433e+01	1.8406e+01
^{131}Sn	$(n\gamma)^{132}$Sn	7.3090e+00	1.5	0.0	1.9500	0.01	1.1e−03	0
	4.8312e+01	−1.9756e−01	2.1873e+01	−6.3150e+01	5.9041e+00	−4.7230e−01	2.2514e+01	7.3393e+01
^{132}Sn	$(n\gamma)^{133}$Sn	2.5770e+00	0.0	3.5	1.4150	0.01	6.0e−04	0
	2.7728e+01	−2.3706e−02	5.9686e+00	−2.7540e+01	3.5245e+00	−3.2728e−01	8.3692e+00	4.9343e+01
^{133}Sn	$(n\gamma)^{134}$Sn	4.2820e+00	3.5	0.0	7.0800	0.01	2.0e−04	0
	2.8965e+01	−1.2710e−01	1.3348e+01	−3.6142e+01	3.6368e+00	−3.2018e−01	1.3222e+01	5.4739e+01
^{134}Sn	$(n\gamma)^{135}$Sn	1.8710e+00	0.0	0.5	3.1250	0.01	4.9e−05	0
	2.6829e+01	−9.0082e−02	9.7605e+00	−3.2084e+01	3.9823e+00	−3.9631e−01	1.0336e+01	4.9831e+01
^{135}Sn	$(n\gamma)^{136}$Sn	3.7400e+00	0.5	0.0	6.2300	0.01	2.6e−04	0
	5.7761e+00	2.8812e−02	−4.2203e+00	8.0250e+00	4.5124e−01	−1.6806e−01	−4.3240e+00	3.0164e+01
^{136}Sn	$(n\gamma)^{137}$Sn	1.6110e+00	0.0	1.5	2.3550	0.01	1.6e−04	0
	1.6582e+01	−1.1257e−02	1.8683e+00	−1.2446e+01	2.4073e+00	−3.2946e−01	2.8271e+00	3.8890e+01
^{137}Sn	$(n\gamma)^{138}$Sn	3.5620e+00	1.5	0.0	5.4000	0.01	1.4e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.2132e+01	1.0885e−02	−1.4887e+00	−3.0165e+00	1.9228e+00	−3.3104e−01	−9.4086e−01	3.7213e+01
^{138}Sn	$(n\gamma)^{139}$Sn	1.2970e+00	0.0	2.5	1.9650	0.01	7.0e−04	0
	8.1547e+00	5.3632e−02	−4.4188e+00	2.4759e+00	1.4504e+00	−3.1437e−01	−3.0069e+00	3.0058e+01
^{139}Sn	$(n\gamma)^{140}$Sn	3.3510e+00	2.5	0.0	5.0400	0.01	3.2e−03	0
	1.0591e+01	6.0560e−02	−4.8281e+00	1.2705e+00	1.7148e+00	−3.4643e−01	−3.0652e+00	3.6077e+01
^{140}Sn	$(n\gamma)^{141}$Sn	6.3300e−01	0.0	1.5	1.8850	0.01	7.7e−03	0
	3.0371e−01	1.2512e−01	−1.1707e+01	1.4920e+01	1.8174e+00	−4.4841e−01	−9.4604e+00	2.2612e+01
^{141}Sn	$(n\gamma)^{142}$Sn	3.2010e+00	1.5	0.0	4.8250	0.01	1.6e−03	0
	−1.9784e+01	1.6980e−01	−1.9859e+01	5.2170e+01	−3.5652e+00	6.6187e−02	−2.0330e+01	5.2978e+00
^{142}Sn	$(n\gamma)^{143}$Sn	4.1600e−01	0.0	1.5	1.4200	0.01	1.1e−02	0
	−4.1820e+01	3.9349e−01	−4.0534e+01	9.0886e+01	−3.9840e+00	−9.6590e−02	−3.8111e+01	−1.9511e+01
^{143}Sn	$(n\gamma)^{144}$Sn	3.3210e+00	1.5	0.0	3.3450	0.01	1.0e−03	0
	2.7410e+01	8.6091e−02	−4.8433e+00	−1.4579e+01	3.0101e+00	−4.0639e−01	−4.1762e−01	5.2491e+01
^{144}Sn	$(n\gamma)^{145}$Sn	1.0770e+00	0.0	2.5	0.3750	0.01	2.1e−03	0
	1.2438e+01	−3.6185e−02	3.6467e+00	−9.7447e+00	1.7776e+00	−3.4916e−01	3.5122e+00	3.4342e+01
^{145}Sn	$(n\gamma)^{146}$Sn	2.9750e+00	2.5	0.0	2.4550	0.01	2.1e−03	0
	1.4378e+01	8.7111e−02	−6.6640e+00	2.0487e+00	8.7515e−01	−2.4965e−01	−4.0598e+00	3.9865e+01
^{146}Sn	$(n\gamma)^{147}$Sn	1.0060e+00	0.0	2.5	0.4350	0.01	3.9e−03	0
	1.9082e+01	−8.8360e−02	9.2609e+00	−2.2964e+01	2.5653e+00	−3.9490e−01	8.9349e+00	4.0986e+01
^{147}Sn	$(n\gamma)^{148}$Sn	2.6510e+00	2.5	0.0	2.5650	0.01	2.6e−03	0
	5.6797e+00	1.2152e−01	−1.0985e+01	1.5525e+01	−3.1667e−01	−1.7075e−01	−8.7953e+00	3.1167e+01
^{148}Sn	$(n\gamma)^{149}$Sn	9.5500e−01	0.0	0.5	0.5550	0.01	4.6e−03	0
	6.5816e+00	−2.2314e−02	1.3577e+00	−1.6190e+00	9.2984e−01	−2.9327e−01	7.2865e−01	2.9584e+01
^{149}Sn	$(n\gamma)^{150}$Sn	2.5570e+00	0.5	0.0	2.5700	0.01	3.2e−03	0
	5.5830e+00	1.9911e−01	−1.7477e+01	2.2462e+01	−4.5232e−01	−1.7306e−01	−1.3525e+01	2.9972e+01
^{150}Sn	$(n\gamma)^{151}$Sn	6.8100e−01	0.0	3.5	0.6800	0.01	5.6e−03	0
	1.2138e+01	2.1471e−02	7.8545e−02	−7.6632e+00	1.8223e+00	−3.7513e−01	1.6727e+00	3.3754e+01
^{151}Sn	$(n\gamma)^{152}$Sn	2.2630e+00	3.5	0.0	3.1200	0.01	3.2e−03	0
	−1.0879e+00	1.3704e−01	−1.3424e+01	2.4106e+01	−9.8735e−01	−1.3570e−01	−1.1727e+01	2.4687e+01
^{152}Sn	$(n\gamma)^{153}$Sn	3.7300e−01	0.0	2.5	n.c.	0.01	6.3e−03	0
	−3.4094e+00	1.1802e−01	−1.0674e+01	1.8080e+01	3.0460e−01	−3.0501e−01	−8.8978e+00	1.8495e+01
^{153}Sn	$(n\gamma)^{154}$Sn	1.8160e+00	2.5	0.0	n.c.	0.01	3.6e−03	0
	−5.8796e+00	1.7108e−01	−1.6801e+01	3.1653e+01	−1.4760e+00	−1.1030e−01	−1.4843e+01	1.9608e+01
^{154}Sn	$(n\gamma)^{155}$Sn	3.6000e−02	0.0	3.5	n.c.	0.01	7.8e−03	0
	4.0796e+00	−1.1808e−01	1.2781e+01	−1.6957e+01	1.3736e+00	−3.2641e−01	1.0974e+01	2.5696e+01
^{155}Sn	$(n\gamma)^{156}$Sn	1.7210e+00	3.5	0.0	n.c.	0.01	3.9e−03	0
	−2.6130e+00	1.5138e−01	−1.4598e+01	2.4945e+01	−7.9736e−01	−1.6522e−01	−1.2534e+01	2.3163e+01
^{157}Sn	$(n\gamma)^{158}$Sn	1.4560e+00	4.5	0.0	n.c.	0.01	4.5e−03	0
	−1.2557e+01	1.8602e−01	−1.9045e+01	3.9436e+01	−1.9888e+00	−9.1631e−02	−1.7506e+01	1.3442e+01
^{159}Sn	$(n\gamma)^{160}$Sn	1.5450e+00	0.5	0.0	n.c.	0.01	4.7e−03	0
	−3.6836e+00	2.3751e−01	−2.2017e+01	3.3495e+01	−9.6550e−01	−1.6950e−01	−1.8108e+01	2.0706e+01
^{116}Sb	$(np)^{116}$Sn	5.4890e+00	3.0	0.0	0.0100	0.01	1.3e−02	
	6.8574e+01	−3.7967e−01	4.3276e+01	−1.0220e+02	6.8563e+00	−3.8330e−01	4.2078e+01	7.0520e+01
	1.00 1.01	1.06 1.13	1.20 1.27	1.33 1.37	1.41 1.43	1.16 0.75	0.56 0.69	1.07 0.90
^{116}Sb	$(n\alpha)^{113}$In	8.1950e+00	3.0	4.5	0.0100	0.01	3.9e−03	0
	4.3267e+01	−2.8685e−01	2.5231e+01	−6.4710e+01	6.1916e+00	−4.0406e−01	2.4757e+01	4.1563e+01
^{117}Sb	$(np)^{117}$Sn	2.5390e+00	2.5	0.5	0.0100	0.01	3.9e−03	
	7.0688e−01	2.4929e−01	−1.9443e+01	2.6336e+01	1.8290e+00	−3.8581e−01	−1.4821e+01	1.8055e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.32 2.29	3.57 4.73	3.83 1.81
^{117}Sb	$(n\alpha)^{114}$In	5.5750e+00	2.5	1.0	0.0100	0.01	5.7e−02	0
	−6.6105e+01	6.9881e−01	−7.2289e+01	1.3997e+02	−2.8861e+00	−2.2842e−01	−6.4149e+01	−6.6759e+01
^{118}Sb	$(n\gamma)^{119}$Sb	9.5480e+00	1.0	2.5	0.0100	0.01	1.6e−05	
	1.7473e+01	3.6019e−02	−2.6634e+00	5.1940e+00	−4.5647e−01	−6.0619e−02	−2.0133e+00	4.0473e+01
	0.99 1.00	1.03 1.05	1.07 1.08	1.09 1.10	1.10 1.10	1.03 0.85	0.64 0.29	0.10 0.03
^{118}Sb	$(np)^{118}$Sn	4.4390e+00	1.0	0.0	0.0100	0.01	9.9e−03	0
	5.6833e+01	−1.6040e−01	2.2176e+01	−7.1188e+01	6.4697e+00	−4.4105e−01	2.4514e+01	5.7932e+01
^{118}Sb	$(n\alpha)^{115}$In	7.1880e+00	1.0	4.5	0.0100	0.01	3.8e−03	0
	9.6487e+01	−6.0267e−01	6.1476e+01	−1.6598e+02	1.5383e+01	−1.0557e+00	6.2022e+01	9.3935e+01
^{119}Sb	$(n\gamma)^{120}$Sb	7.0210e+00	2.5	1.0	0.0100	0.01	2.5e−03	
	−1.1134e+01	2.4013e−01	−2.4385e+01	5.8262e+01	−4.2053e+00	1.4481e−01	−2.3107e+01	1.3252e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	1.00 0.95	0.72 0.21	0.05 0.01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{119}Sb	(np)^{119}Sn	1.3770e+00	2.5	0.5	0.0100	0.01	5.4e−03	0
	−1.5196e+02	9.0757e−01	−9.8761e+01	2.6882e+02	−1.8769e+01	1.1167e+00	−1.0013e+02	−1.5086e+02
^{119}Sb	(nα)^{116}In	4.4240e+00	2.5	1.0	0.0100	0.01	4.6e−02	0
	−1.6502e+02	1.2572e+00	−1.3437e+02	3.0227e+02	−1.3387e+01	3.2536e−01	−1.2654e+02	−1.6567e+02
^{120}Sb	(nγ)^{121}Sb	9.2390e+00	1.0	2.5	0.0100	0.01	1.5e−04	
	1.9526e+01	1.7401e−01	−1.2915e+01	1.3443e+01	−3.9220e−01	−8.3155e−02	−8.5942e+00	4.2526e+01
	1.65 2.20	2.36 2.30	2.18 2.04	1.92 1.81	1.72 1.64	1.14 0.84	0.61 0.27	0.09 0.03
^{120}Sb	(np)^{120}Sn	3.4620e+00	1.0	0.0	0.0100	0.01	5.4e−03	0
	3.0841e+01	5.2954e−02	1.1786e+00	−2.2907e+01	2.2269e+00	−3.5153e−02	5.1033e+00	3.1939e+01
^{120}Sb	(nα)^{117}In	6.1670e+00	1.0	4.5	0.0100	0.01	2.3e−03	0
	1.0849e+02	−6.2816e−01	6.1069e+01	−1.8524e+02	1.9336e+01	−1.4360e+00	6.4849e+01	1.0594e+02
^{121}Sb	(nγ)^{122}Sb	6.8070e+00	2.5	2.0	0.0100	0.01	2.2e−03	
	−1.0561e+01	2.3563e−01	−2.4129e+01	5.6654e+01	−3.8624e+00	1.0804e−01	−2.2844e+01	1.3314e+01
	0.99 0.98	0.98 0.98	0.99 1.00	1.01 1.02	1.02 1.03	1.08 1.04	0.81 0.26	0.06 0.01
^{121}Sb	(np)^{121}Sn	3.9500e−01	2.5	1.5	0.0100	0.01	4.2e−03	0
	4.8716e+01	−1.2019e+00	1.3136e+02	−1.9478e+02	6.9506e+00	−2.4988e−01	1.1547e+02	4.9121e+01
^{121}Sb	(nα)^{118}In	3.2860e+00	2.5	1.0	0.0100	0.01	4.7e−02	0
	−4.0212e+02	2.2769e+00	−2.6211e+02	6.8428e+02	−4.4268e+01	2.3872e+00	−2.6315e+02	−4.0277e+02
^{122}Sb	(nγ)^{123}Sb	8.9690e+00	2.0	3.5	0.0100	0.01	1.1e−04	
	2.6548e+01	7.6096e−02	−3.8107e+00	−3.9204e+00	6.2282e−01	−1.3785e−01	−7.4861e−01	4.9771e+01
	1.30 1.58	1.71 1.74	1.71 1.65	1.59 1.53	1.47 1.42	1.02 0.75	0.54 0.24	0.08 0.02
^{122}Sb	(np)^{122}Sn	2.4020e+00	2.0	0.0	0.0100	0.01	1.6e−03	0
	2.1505e+01	5.3968e−02	−8.2091e−02	−1.7275e+01	2.8371e+00	−1.4766e−01	3.1570e+00	2.3114e+01
^{122}Sb	(nα)^{119}In	5.0240e+00	2.0	4.5	0.0100	0.01	1.1e−03	0
	8.2148e+01	−4.3140e−01	4.2160e+01	−1.4621e+02	1.8898e+01	−1.5749e+00	4.7625e+01	8.0106e+01
^{123}Sb	(nγ)^{124}Sb	6.4680e+00	3.5	3.0	0.0100	0.01	3.8e−03	
	−5.3219e+00	1.9600e−01	−2.0138e+01	4.6277e+01	−2.9611e+00	4.1113e−02	−1.8999e+01	1.8505e+01
	1.00 1.00	1.00 1.00	0.99 0.98	0.98 0.97	0.96 0.96	0.91 0.85	0.68 0.21	0.05 0.01
^{123}Sb	(nα)^{120}In	2.1560e+00	3.5	1.0	0.0100	0.01	9.6e−02	0
	−5.3357e+02	−4.7811e−01	−2.5385e+02	8.1349e+02	−6.1123e+01	3.7272e+00	−2.8273e+02	−5.3393e+02
^{124}Sb	(nγ)^{125}Sb	8.7150e+00	3.0	3.5	0.0100	0.01	6.7e−05	
	1.9040e+01	4.0764e−02	−3.2854e+00	2.5057e+00	1.6915e−01	−1.1959e−01	−2.2345e+00	4.2600e+01
	1.17 1.09	1.04 1.01	0.99 0.98	0.97 0.96	0.96 0.95	0.89 0.78	0.63 0.31	0.11 0.03
^{124}Sb	(np)^{124}Sn	1.4000e+00	3.0	0.0	0.0100	0.01	2.9e−03	0
	−4.5707e+01	1.7777e−01	−2.0230e+01	6.7027e+01	−2.9992e+00	8.4737e−02	−2.2619e+01	−4.3761e+01
^{124}Sb	(nα)^{121}In	3.8660e+00	3.0	4.5	0.0100	0.01	1.9e−02	0
	−1.1542e+02	9.1256e−01	−9.5478e+01	1.9988e+02	−4.7021e+00	−2.4057e−01	−8.7949e+01	−1.1713e+02
^{125}Sb	(nγ)^{126}Sb	6.2080e+00	3.5	8.0	0.0100	0.01	2.4e−03	
	−8.8929e−01	1.4960e−01	−1.5641e+01	3.5881e+01	−2.0803e+00	−1.9845e−02	−1.4860e+01	2.2051e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.95 0.89	0.74 0.27	0.07 0.01
^{125}Sb	(nα)^{122}In	9.6100e−01	3.5	1.0	0.0100	0.01	1.9e−02	0
	−5.5592e+02	−1.9934e+01	−3.8332e+02	9.7491e+02	−6.4402e+01	3.6299e+00	−3.8147e+02	−5.5629e+02
^{126}Sb	(nγ)^{127}Sb	8.3830e+00	8.0	3.5	0.0100	0.01	9.2e−05	
	2.1981e+01	1.9921e−02	−6.3296e−01	−4.0948e+00	5.8310e−01	−1.3947e−01	5.0950e−01	4.6428e+01
	0.98 1.02	1.04 1.03	1.02 0.99	0.97 0.94	0.92 0.90	0.71 0.55	0.41 0.19	0.07 0.02
^{126}Sb	(np)^{126}Sn	4.0500e−01	8.0	0.0	0.0100	0.01	5.4e−04	0
	2.3827e+01	−5.0372e−01	7.3960e+01	−1.1271e+02	2.9793e+00	−1.0815e−02	7.2080e+01	2.6660e+01
^{126}Sb	(nα)^{123}In	2.6770e+00	8.0	4.5	0.0100	0.01	6.1e−02	0
	−4.0226e+02	1.6796e+00	−2.1784e+02	6.3142e+02	−4.3436e+01	2.5210e+00	−2.2998e+02	−4.0308e+02
^{127}Sb	(nγ)^{128}Sb	5.9720e+00	3.5	8.0	0.0100	0.01	2.3e−03	
	1.9876e+00	1.2414e−01	−1.3103e+01	2.8881e+01	−1.3352e+00	−7.4937e−02	−1.2384e+01	2.4928e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	1.00 1.00	0.97 0.92	0.79 0.32	0.09 0.02
^{128}Sb	(nγ)^{129}Sb	8.0870e+00	8.0	3.5	0.0100	0.01	2.4e−05	
	2.3429e+01	−5.3802e−02	5.3372e+00	−1.2441e+01	8.6244e−01	−1.3460e−01	4.9764e+00	4.7877e+01
	1.03 1.07	1.11 1.14	1.16 1.18	1.19 1.20	1.19 1.19	1.02 0.79	0.59 0.29	0.11 0.04
^{128}Sb	(nα)^{125}In	1.5160e+00	8.0	4.5	0.0100	0.01	2.6e−02	0
	−2.3669e+02	−1.4568e+01	2.4117e+02	−2.0165e+01	−1.1577e+01	9.7320e−01	1.0825e+02	−2.3751e+02
^{129}Sb	(nγ)^{130}Sb	5.8380e+00	3.5	8.0	0.0100	0.01	7.8e−04	
	1.5151e+01	2.6674e−02	−2.8447e+00	2.2288e+00	9.7555e−01	−2.2661e−01	−2.3136e+00	3.8091e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.96	0.91 0.53	0.19 0.05
^{130}Sb	(nγ)^{131}Sb	7.7000e+00	8.0	3.5	0.0150	0.01	3.6e−05	

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	2.0785e+01	−4.9556e−02	4.4761e+00	−1.0144e+01	9.4282e−01	−1.4483e−01	3.9616e+00	4.5233e+01
	1.02 1.04	1.07 1.09	1.12 1.14	1.16 1.18	1.20 1.21	1.19 1.06	0.88 0.51	0.24 0.09
^{130}Sb	$(\mathrm{n}\alpha)^{127}$In	2.4800e−01	8.0	4.5	0.0150	0.01	1.6e−02	0
	−4.5811e+02	−3.4487e+01	−3.3677e+02	8.2244e+02	−5.1080e+01	2.8008e+00	−3.3237e+02	−4.5893e+02
^{131}Sb	$(\mathrm{n}\gamma)^{132}$Sb	5.9740e+00	3.5	4.0	0.0100	0.01	1.6e−05	0
	1.6229e+01	−2.4817e−03	−1.2536e−01	−2.6378e+00	1.0131e+00	−1.8178e−01	1.3431e−02	3.9805e+01
^{132}Sb	$(\mathrm{n}\gamma)^{133}$Sb	7.1040e+00	4.0	3.5	0.0600	0.01	1.4e−04	0
	2.5212e+01	−7.0464e−02	7.2398e+00	−1.9948e+01	1.9019e+00	−1.9674e−01	7.1545e+00	4.9024e+01
^{133}Sb	$(\mathrm{n}\gamma)^{134}$Sb	3.0920e+00	3.5	0.0	0.1000	0.01	9.2e−04	0
	3.9249e+01	−1.8607e−01	1.9525e+01	−5.3665e+01	5.4184e+00	−4.6301e−01	1.9419e+01	6.5023e+01
^{134}Sb	$(\mathrm{n}\gamma)^{135}$Sb	3.8000e+00	0.0	3.5	1.7200	0.01	4.7e−05	0
	4.2054e+01	1.5366e−02	5.7615e+00	−3.8321e+01	3.6598e+00	−3.0194e−01	1.0822e+01	6.3669e+01
^{135}Sb	$(\mathrm{n}\gamma)^{136}$Sb	2.5490e+00	3.5	2.0	0.5600	0.01	1.4e−04	0
	3.2336e+01	−1.1703e−01	1.3049e+01	−3.8682e+01	3.8566e+00	−3.5362e−01	1.3556e+01	5.6500e+01
^{136}Sb	$(\mathrm{n}\gamma)^{137}$Sb	3.8420e+00	2.0	0.5	1.0250	0.01	3.3e−05	0
	3.5760e+01	−9.1010e−02	1.1835e+01	−3.8697e+01	3.4188e+00	−3.0192e−01	1.3277e+01	6.0371e+01
^{137}Sb	$(\mathrm{n}\gamma)^{138}$Sb	1.4730e+00	0.5	0.0	0.2500	0.01	1.2e−04	0
	3.1971e+00	1.3526e−02	−2.5738e+00	8.3395e+00	3.7650e−02	−1.3039e−01	−3.1527e+00	2.7585e+01
^{138}Sb	$(\mathrm{n}\gamma)^{139}$Sb	3.8560e+00	0.0	0.5	0.7050	0.01	2.8e−04	0
	1.0205e+01	3.0128e−01	−2.5594e+01	2.8466e+01	−3.4822e−01	−1.0446e−01	−1.8932e+01	3.3207e+01
^{139}Sb	$(\mathrm{n}\gamma)^{140}$Sb	1.9240e+00	0.5	2.0	0.0550	0.01	2.8e−04	0
	2.4999e+01	5.7265e−02	−1.6372e+00	−1.4263e+01	2.1249e+00	−2.7837e−01	1.9248e+00	4.7778e+01
^{140}Sb	$(\mathrm{n}\gamma)^{141}$Sb	3.5890e+00	2.0	0.5	0.3050	0.01	7.4e−05	0
	3.1848e+01	2.1777e−02	1.7219e+00	−2.3429e+01	2.6147e+00	−2.8430e−01	5.1368e+00	5.6459e+01
^{141}Sb	$(\mathrm{n}\gamma)^{142}$Sb	1.1870e+00	0.5	1.0	0.0500	0.01	1.2e−03	0
	2.2243e+01	7.5738e−02	−4.1708e+00	−1.0007e+01	2.4030e+00	−3.4535e−01	−5.6587e−01	4.5533e+01
^{142}Sb	$(\mathrm{n}\gamma)^{143}$Sb	3.5720e+00	1.0	4.5	0.2650	0.01	3.5e−04	0
	−4.2839e+00	3.4773e−01	−3.3566e+01	5.1734e+01	−1.7429e+00	−5.9050e−02	−2.8180e+01	1.8207e+01
^{143}Sb	$(\mathrm{n}\gamma)^{144}$Sb	1.8490e+00	4.5	5.0	0.0150	0.01	1.0e−03	0
	2.0582e+01	1.6884e−02	−2.0562e−01	−1.1936e+01	2.0443e+00	−3.0811e−01	1.6407e+00	4.4182e+01
^{144}Sb	$(\mathrm{n}\gamma)^{145}$Sb	3.3370e+00	5.0	4.5	0.1400	0.01	4.7e−04	0
	2.4805e+01	4.8819e−02	−2.3019e+00	−1.1636e+01	1.8402e+00	−2.6688e−01	5.9904e−01	4.8595e+01
^{145}Sb	$(\mathrm{n}\gamma)^{146}$Sb	1.7750e+00	4.5	2.0	0.0200	0.01	1.5e−03	0
	1.2452e+01	5.8623e−02	−4.9417e+00	1.6870e+00	9.0973e−01	−2.4278e−01	−3.2743e+00	3.6840e+01
^{146}Sb	$(\mathrm{n}\gamma)^{147}$Sb	3.0780e+00	2.0	4.5	0.1500	0.01	6.7e−04	0
	1.5457e+01	1.7602e−01	−1.4272e+01	1.0480e+01	5.2790e−01	−1.9785e−01	−9.7020e+00	3.8459e+01
^{147}Sb	$(\mathrm{n}\gamma)^{148}$Sb	1.4440e+00	4.5	5.0	0.0300	0.01	2.3e−03	0
	8.0575e+00	7.9833e−02	−7.4050e+00	8.0953e+00	5.2837e−01	−2.3223e−01	−5.7870e+00	3.1658e+01
^{148}Sb	$(\mathrm{n}\gamma)^{149}$Sb	2.8030e+00	5.0	4.5	0.2100	0.01	7.9e−04	0
	1.9017e+01	9.0662e−02	−6.7499e+00	−2.1570e+00	1.2860e+00	−2.4738e−01	−3.5758e+00	4.2808e+01
^{149}Sb	$(\mathrm{n}\gamma)^{150}$Sb	1.3570e+00	4.5	4.0	0.0350	0.01	2.4e−03	0
	5.0288e+00	9.3950e−02	−9.0503e+00	1.2643e+01	1.0080e−01	−2.0146e−01	−7.4891e+00	2.8830e+01
^{150}Sb	$(\mathrm{n}\gamma)^{151}$Sb	2.5500e+00	4.0	4.5	0.2500	0.01	8.7e−04	0
	1.6088e+01	1.0552e−01	−8.4345e+00	2.4748e+00	8.7481e−01	−2.2138e−01	−5.3003e+00	3.9679e+01
^{151}Sb	$(\mathrm{n}\gamma)^{152}$Sb	1.1700e+00	4.5	2.0	0.0450	0.01	2.7e−03	0
	1.6678e+00	1.1495e−01	−1.1207e+01	1.7643e+01	−2.1708e−01	−1.8675e−01	−9.5269e+00	2.6057e+01
^{152}Sb	$(\mathrm{n}\gamma)^{153}$Sb	2.2940e+00	2.0	4.5	0.3350	0.01	8.6e−04	0
	8.4167e+00	2.0520e−01	−1.7955e+01	2.0083e+01	−1.1981e−01	−1.6945e−01	−1.3554e+01	3.1420e+01
^{153}Sb	$(\mathrm{n}\gamma)^{154}$Sb	8.8300e−01	4.5	3.0	0.0700	0.01	3.4e−03	0
	−5.4639e−01	1.3007e−01	−1.2670e+01	1.9883e+01	−1.1358e−01	−2.1094e−01	−1.0766e+01	2.3506e+01
^{154}Sb	$(\mathrm{n}\gamma)^{155}$Sb	1.8700e+00	3.0	1.5	0.5450	0.01	8.9e−04	0
	1.2446e+01	1.2732e−01	−1.0645e+01	6.9109e+00	6.4451e−01	−2.1465e−01	−7.3078e+00	3.6702e+01
^{155}Sb	$(\mathrm{n}\gamma)^{156}$Sb	5.6000e−01	1.5	2.0	n.c.	0.01	4.3e−03	0
	−1.3485e+01	2.5732e−01	−2.5234e+01	4.5446e+01	−1.6128e+00	−1.3509e−01	−2.2077e+01	9.9884e+00
^{156}Sb	$(\mathrm{n}\gamma)^{157}$Sb	1.7190e+00	2.0	1.5	n.c.	0.01	1.2e−03	0
	3.0751e+00	2.3634e−01	−2.1337e+01	2.7244e+01	−3.9055e−01	−1.7322e−01	−1.6756e+01	2.6994e+01
^{157}Sb	$(\mathrm{n}\gamma)^{158}$Sb	3.2900e−01	1.5	3.0	n.c.	0.01	4.2e−03	0
	−2.9409e+01	2.7985e−01	−2.9767e+01	6.5830e+01	−3.4175e+00	−2.0953e−02	−2.8226e+01	−6.2728e+00
^{158}Sb	$(\mathrm{n}\gamma)^{159}$Sb	1.4830e+00	3.0	1.5	n.c.	0.01	1.5e−03	0
	5.7165e+00	1.8217e−01	−1.6302e+01	1.8268e+01	1.8080e−01	−2.1244e−01	−1.2489e+01	2.9972e+01
^{159}Sb	$(\mathrm{n}\gamma)^{160}$Sb	3.6400e−01	1.5	2.0	n.c.	0.01	3.8e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−2.9053e+01	2.7907e−01	−2.9697e+01	6.5617e+01	−3.5552e+00	−9.6362e−04	−2.8152e+01	−5.5797e+00
^{160}Sb	$(n\gamma)^{161}$Sb	1.4050e+00	2.0	1.5	n.c.	0.01	1.3e−03	0
	1.8122e+00	2.2748e−01	−2.0595e+01	2.6874e+01	−4.1760e−01	−1.7568e−01	−1.6261e+01	2.5732e+01
^{161}Sb	$(n\gamma)^{162}$Sb	5.7000e−02	1.5	0.0	n.c.	0.01	2.5e−03	0
	−2.6506e+01	1.3337e−01	−1.4454e+01	4.3187e+01	−2.8561e+00	−2.1583e−02	−1.4976e+01	−1.4236e+00
^{118}Te	$(np)^{118}$Sb	1.0600e+00	0.0	1.0	0.0100	0.01	2.5e−02	
	−1.9341e+02	6.9502e−01	−8.8935e+01	3.0286e+02	−2.2813e+01	1.3219e+00	−1.0123e+02	−1.9450e+02
	1.00 1.00	1.00 1.00	1.01 1.06	1.21 1.51	1.98 2.59	12.37 24.22	39.34 63.35	47.53 30.25
^{118}Te	$(n\alpha)^{115}$Sn	7.9610e+00	0.0	0.5	0.0100	0.01	6.1e−04	0
	6.1634e+01	−5.6257e−01	4.0999e+01	−1.0219e+02	1.0380e+01	−7.8416e−01	3.8581e+01	5.9593e+01
^{119}Te	$(np)^{119}$Sb	3.0760e+00	0.5	2.5	0.0100	0.01	7.0e−03	
	8.5058e+01	−3.7031e−01	4.5760e+01	−1.3041e+02	1.2781e+01	−1.0280e+00	4.7956e+01	8.3960e+01
	1.00 1.00	1.00 1.00	1.01 1.02	1.04 1.07	1.10 1.12	1.25 1.39	1.97 5.27	5.42 2.34
^{119}Te	$(n\alpha)^{116}$Sn	9.9920e+00	0.5	0.0	0.0100	0.01	3.0e−03	0
	6.2174e+01	−3.2943e−01	3.4712e+01	−8.9721e+01	6.6671e+00	−3.3046e−01	3.4532e+01	6.1519e+01
^{120}Te	$(n\gamma)^{121}$Te	7.2250e+00	0.0	0.5	0.0100	0.01	3.8e−03	
	1.3341e+01	9.4272e−02	−8.6054e+00	1.3046e+01	7.2397e−01	−2.9170e−01	−7.0640e+00	3.6341e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.10 1.25	1.24 0.59	0.12 0.02
^{120}Te	$(n\alpha)^{117}$Sn	6.6440e+00	0.0	0.5	0.0100	0.01	3.2e−03	0
	2.9920e+01	1.3765e−02	3.3369e+00	−3.5613e+01	7.7819e+00	−7.4034e−01	7.4909e+00	2.7879e+01
^{121}Te	$(n\gamma)^{122}$Te	9.8210e+00	0.5	0.0	0.0100	0.01	3.6e−04	
	1.4896e+01	2.6777e−02	−2.6412e+00	7.2507e+00	−3.0967e−01	−1.1533e−01	−2.5759e+00	3.9282e+01
	1.00 1.00	1.00 1.00	1.01 1.01	1.03 1.06	1.08 1.09	1.10 0.95	0.76 0.33	0.09 0.02
^{121}Te	$(np)^{121}$Sb	1.8180e+00	0.5	2.5	0.0100	0.01	9.1e−03	0
	1.4916e+01	−1.4983e−01	1.6568e+01	−2.9415e+01	3.9764e+00	−3.6128e−01	1.4512e+01	1.3818e+01
^{121}Te	$(n\alpha)^{118}$Sn	8.7450e+00	0.5	0.0	0.0100	0.01	7.2e−03	
	8.1207e+01	−5.8736e−01	5.5312e+01	−1.3536e+02	1.0277e+01	−5.5756e−01	5.3164e+01	8.0551e+01
	1.00 1.00	1.00 1.00	0.99 0.98	0.96 0.93	0.89 0.84	0.49 0.39	0.40 1.00	4.61 11.89
^{122}Te	$(n\gamma)^{123}$Te	6.9390e+00	0.0	0.5	0.0100	0.01	4.4e−03	
	9.6762e+00	1.1304e−01	−1.0718e+01	1.8723e+01	3.0278e−01	−2.6842e−01	−9.2093e+00	3.2677e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.08 1.21	1.25 0.60	0.12 0.02
^{122}Te	$(n\alpha)^{119}$Sn	5.4090e+00	0.0	0.5	0.0100	0.01	1.8e−02	0
	−5.0741e+01	5.5530e−01	−5.4479e+01	1.0413e+02	−1.0229e+00	−2.7724e−01	−4.8356e+01	−5.2783e+01
^{123}Te	$(n\gamma)^{124}$Te	9.4240e+00	0.5	0.0	0.0100	0.01	3.3e−04	
	8.8575e+00	5.4251e−02	−5.9407e+00	1.6960e+01	−1.1673e+00	−5.8250e−02	−6.0844e+00	3.3244e+01
	1.00 1.00	1.00 1.01	1.02 1.04	1.07 1.11	1.14 1.17	1.28 1.14	0.89 0.35	0.08 0.02
^{123}Te	$(np)^{123}$Sb	8.3300e−01	0.5	3.5	0.0100	0.01	1.9e−02	0
	2.2011e+01	−1.0953e+00	1.0081e+02	−1.3105e+02	5.9281e+00	−3.1260e−01	7.9623e+01	2.0624e+01
^{123}Te	$(n\alpha)^{120}$Sn	7.5770e+00	0.5	0.0	0.0100	0.01	2.7e−03	
	7.9493e+01	−8.9953e−01	6.5543e+01	−1.4854e+02	1.1678e+01	−6.6515e−01	5.9655e+01	7.8837e+01
	1.00 1.00	1.00 1.00	0.99 0.97	0.94 0.91	0.87 0.83	0.60 0.57	0.69 2.27	11.42 39.11
^{124}Te	$(n\gamma)^{125}$Te	6.5760e+00	0.0	0.5	0.0100	0.01	4.5e−03	
	9.6559e+00	1.1488e−01	−1.0762e+01	1.8171e+01	3.8462e−01	−2.7545e−01	−9.1284e+00	3.2657e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.07 1.21	1.27 0.63	0.12 0.02
^{124}Te	$(n\alpha)^{121}$Sn	4.3240e+00	0.0	1.5	0.0100	0.01	3.1e−02	0
	−2.0147e+02	1.4116e+00	−1.5073e+02	3.5998e+02	−1.9687e+01	8.6779e−01	−1.4541e+02	−2.0421e+02
^{125}Te	$(n\gamma)^{126}$Te	9.1140e+00	0.5	0.0	0.0100	0.01	7.5e−04	
	1.4388e+01	1.1411e−02	−1.4576e+00	5.6068e+00	−2.3885e−01	−1.2296e−01	−1.7262e+00	3.8775e+01
	1.00 1.02	1.07 1.14	1.22 1.30	1.38 1.44	1.50 1.54	1.62 1.47	1.19 0.48	0.12 0.02
^{125}Te	$(np)^{125}$Sb	1.6000e−02	0.5	3.5	0.0100	0.01	9.6e−04	0
	3.9017e+01	1.6207e+00	−1.1405e+02	6.2249e+01	−2.5295e+00	7.2654e−02	−3.7067e+01	3.7631e+01
^{125}Te	$(n\alpha)^{122}$Sn	6.5620e+00	0.5	0.0	0.0100	0.01	5.1e−03	0
	1.2993e+02	−4.0564e+00	1.9848e+02	−3.4586e+02	2.5278e+01	−1.6049e+00	1.5493e+02	1.2927e+02
^{126}Te	$(n\gamma)^{127}$Te	6.2900e+00	0.0	1.5	0.0100	0.01	4.7e−03	
	1.1024e+01	1.0672e−01	−9.7491e+00	1.4932e+01	6.7404e−01	−2.9202e−01	−8.0143e+00	3.3332e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.05 1.18	1.26 0.65	0.13 0.02
^{126}Te	$(n\alpha)^{123}$Sn	3.3940e+00	0.0	5.5	0.0100	0.01	6.3e−02	0
	−3.2421e+02	−9.2325e−01	−1.0310e+02	4.3894e+02	−3.0933e+01	1.6920e+00	−1.4373e+02	−3.2805e+02
^{127}Te	$(n\gamma)^{128}$Te	8.7750e+00	1.5	0.0	0.0100	0.01	6.7e−04	
	1.5215e+01	1.6409e−02	−1.9289e+00	4.3742e+00	6.2825e−02	−1.4631e−01	−1.9217e+00	4.0295e+01
	1.00 1.00	1.03 1.05	1.08 1.10	1.12 1.13	1.14 1.15	1.14 1.06	0.90 0.41	0.12 0.03

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{127}Te	$(n\alpha)^{124}$Sn	5.5930e+00	1.5	0.0	0.0100	0.01	1.8e−02	0
	1.0227e+02	−3.4810e+00	1.5980e+02	−2.8441e+02	2.4434e+01	−1.7894e+00	1.2390e+02	1.0231e+02
^{128}Te	$(n\gamma)^{129}$Te	6.0830e+00	0.0	1.5	0.0100	0.01	2.0e−03	
	1.2031e+01	8.5735e−02	−7.8510e+00	1.1084e+01	8.1119e−01	−2.7555e−01	−6.3670e+00	3.4339e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.12	1.16 0.67	0.18 0.03
^{128}Te	$(n\alpha)^{125}$Sn	2.5510e+00	0.0	5.5	0.0100	0.01	1.6e−01	0
	−4.7894e+02	1.4618e+00	−2.0525e+02	7.0674e+02	−5.5401e+01	3.4866e+00	−2.3670e+02	−4.8277e+02
^{129}Te	$(n\gamma)^{130}$Te	8.4190e+00	1.5	0.0	0.0200	0.01	3.1e−04	
	2.7548e+01	−5.8868e−02	6.4956e+00	−1.9061e+01	2.0963e+00	−2.7769e−01	6.6952e+00	5.2628e+01
	1.00 1.00	1.03 1.05	1.07 1.09	1.10 1.10	1.11 1.11	1.09 1.03	0.94 0.57	0.21 0.05
^{129}Te	$(n\alpha)^{126}$Sn	4.6610e+00	1.5	0.0	0.0200	0.01	4.5e−02	0
	2.2101e+01	−2.6329e+00	9.0122e+01	−1.3343e+02	1.5774e+01	−1.3900e+00	6.0647e+01	2.2136e+01
^{130}Te	$(n\gamma)^{131}$Te	5.9300e+00	0.0	1.5	0.0100	0.01	4.9e−04	
	1.6724e+01	2.9691e−02	−2.4408e+00	−4.4192e−01	1.4960e+00	−2.8928e−01	−1.4882e+00	3.9032e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.06	1.07 0.72	0.26 0.06
^{130}Te	$(n\alpha)^{127}$Sn	1.8020e+00	0.0	5.5	0.0100	0.01	1.1e−02	0
	−2.7779e+02	−1.1161e+01	1.8590e+02	8.5937e+01	−2.0139e+01	1.5157e+00	6.4543e+01	−2.8163e+02
^{131}Te	$(n\gamma)^{132}$Te	8.0700e+00	1.5	0.0	0.0650	0.01	8.9e−05	
	1.8393e+01	−2.1098e−02	1.7164e+00	−5.3539e+00	1.0824e+00	−2.0412e−01	1.5697e+00	4.3474e+01
	1.00 1.00	1.00 1.01	1.02 1.03	1.05 1.07	1.09 1.10	1.20 1.20	1.12 0.70	0.28 0.08
^{131}Te	$(n\alpha)^{128}$Sn	3.7720e+00	1.5	0.0	0.0650	0.01	6.1e−02	0
	−1.3916e+02	−1.4550e+00	−2.0175e+01	1.4853e+02	−4.6603e+00	−1.3475e−01	−4.7524e+01	−1.3912e+02
^{132}Te	$(n\gamma)^{133}$Te	5.8210e+00	0.0	1.5	0.0200	0.01	3.9e−05	
	2.0110e+01	2.6869e−03	4.3783e−01	−8.2347e+00	2.0025e+00	−2.8861e−01	1.3917e+00	4.2418e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.03	1.03 0.80	0.39 0.13
^{132}Te	$(n\alpha)^{129}$Sn	1.0670e+00	0.0	1.5	0.0200	0.01	2.9e−02	0
	−5.0172e+02	−1.8623e+01	−2.2747e+02	7.5624e+02	−5.5802e+01	3.3517e+00	−2.6410e+02	−5.0446e+02
^{133}Te	$(n\gamma)^{134}$Te	7.5060e+00	1.5	0.0	0.2700	0.01	5.6e−04	0
	3.9699e+01	−1.1762e−01	1.3518e+01	−4.3266e+01	4.8774e+00	−4.9286e−01	1.4499e+01	6.4780e+01
^{134}Te	$(n\gamma)^{135}$Te	3.5020e+00	0.0	3.5	0.1350	0.01	7.0e−05	0
	1.9220e+01	3.5074e−02	−5.0661e−01	−9.9319e+00	2.1165e+00	−2.6944e−01	1.8130e+00	4.0836e+01
^{135}Te	$(n\gamma)^{136}$Te	4.6690e+00	3.5	0.0	2.5850	0.01	4.6e−05	0
	2.3736e+01	−7.1847e−02	7.3601e+00	−2.2187e+01	2.7508e+00	−3.0886e−01	7.4319e+00	4.9510e+01
^{136}Te	$(n\gamma)^{137}$Te	3.2080e+00	0.0	3.5	0.6350	0.01	5.4e−04	0
	3.1723e+01	−9.6953e−02	1.1947e+01	−3.6290e+01	3.9213e+00	−4.0645e−01	1.2894e+01	5.3338e+01
^{137}Te	$(n\gamma)^{138}$Te	4.4190e+00	3.5	0.0	1.8950	0.01	1.3e−04	0
	1.9023e+01	−4.1234e−02	4.2537e+00	−1.4842e+01	2.3429e+00	−3.1651e−01	4.4956e+00	4.4797e+01
^{138}Te	$(n\gamma)^{139}$Te	1.7370e+00	0.0	1.5	0.4400	0.01	5.6e−03	0
	1.6928e+01	4.4247e−02	−2.5950e+00	−8.0214e+00	3.2276e+00	−4.9140e−01	−3.4651e−01	3.9237e+01
^{139}Te	$(n\gamma)^{140}$Te	4.3300e+00	1.5	0.0	2.4400	0.01	2.1e−04	0
	3.5717e+01	−4.2625e−02	8.0247e+00	−3.4644e+01	3.5376e+00	−3.7292e−01	1.0606e+01	6.0798e+01
^{140}Te	$(n\gamma)^{141}$Te	1.9500e+00	0.0	0.5	0.2050	0.01	2.3e−03	0
	−2.4474e+01	2.4572e−01	−2.6577e+01	6.4407e+01	−3.6425e+00	1.5112e−02	−2.5942e+01	−1.4720e+00
^{141}Te	$(n\gamma)^{142}$Te	4.3160e+00	0.5	0.0	1.2700	0.01	6.6e−04	0
	2.9274e+01	1.3213e−01	−7.2148e+00	−1.1119e+01	2.3386e+00	−3.2396e−01	−1.5278e+00	5.3662e+01
^{142}Te	$(n\gamma)^{143}$Te	2.1060e+00	0.0	1.5	0.0950	0.01	4.6e−04	0
	−1.4885e+01	1.4060e−01	−1.6366e+01	4.4271e+01	−2.7924e+00	−9.7091e−03	−1.6863e+01	7.4242e+00
^{143}Te	$(n\gamma)^{144}$Te	4.1910e+00	1.5	0.0	1.1650	0.01	1.2e−03	0
	2.7749e+01	4.8721e−02	−7.5501e−01	−1.6059e+01	2.2165e+00	−3.2263e−01	2.7293e+00	5.2831e+01
^{144}Te	$(n\gamma)^{145}$Te	1.9860e+00	0.0	1.5	0.1250	0.01	1.2e−03	0
	6.2859e+00	2.1158e−02	−2.7514e+00	6.3277e+00	4.6223e−01	−2.5144e−01	−2.8437e+00	2.8595e+01
^{145}Te	$(n\gamma)^{146}$Te	3.8560e+00	1.5	0.0	1.2300	0.01	1.8e−03	0
	1.9793e+01	9.7613e−02	−6.2153e+00	−2.1289e+00	1.1463e+00	−2.5985e−01	−2.7240e+00	4.4874e+01
^{146}Te	$(n\gamma)^{147}$Te	1.8320e+00	0.0	2.5	0.1500	0.01	2.0e−03	0
	7.4973e+00	−8.7308e−03	1.1555e−01	1.8851e+00	4.8971e−01	−2.4438e−01	−4.3200e−01	2.9401e+01
^{147}Te	$(n\gamma)^{148}$Te	3.5950e+00	2.5	0.0	1.3400	0.01	2.2e−03	0
	1.0103e+01	1.1796e−01	−9.8217e+00	1.1617e+01	−7.2008e−02	−1.8219e−01	−7.2627e+00	3.5591e+01
^{148}Te	$(n\gamma)^{149}$Te	1.5880e+00	0.0	2.5	0.1900	0.01	2.7e−03	0
	1.2166e+01	−4.8534e−02	4.2908e+00	−8.3543e+00	1.2924e+00	−3.0584e−01	3.5926e+00	3.4070e+01
^{149}Te	$(n\gamma)^{150}$Te	3.3000e+00	2.5	0.0	1.6900	0.01	2.7e−03	0
	4.6880e+00	1.4226e−01	−1.2821e+01	2.0118e+01	−7.5868e−01	−1.4103e−01	−1.0447e+01	3.0175e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{150}Te	$(n\gamma)^{151}$Te	1.3340e+00	0.0	0.5	0.2750	0.01	4.1e−03	0
	1.6196e+01	−1.2138e−01	1.0829e+01	−2.0092e+01	1.9714e+00	−3.4654e−01	9.0580e+00	3.9199e+01
^{151}Te	$(n\gamma)^{152}$Te	3.0390e+00	0.5	0.0	1.9150	0.01	3.9e−03	0
	9.0562e+00	1.4124e−01	−1.3558e+01	2.0999e+01	−8.9087e−01	−1.3994e−01	−1.1384e+01	3.3445e+01
^{152}Te	$(n\gamma)^{153}$Te	1.2300e+00	0.0	2.5	0.3300	0.01	1.7e−02	0
	2.5313e+02	−1.4653e+00	1.6333e+02	−4.4099e+02	3.5267e+01	−2.3884e+00	1.6550e+02	2.7503e+02
^{153}Te	$(n\gamma)^{154}$Te	2.8130e+00	2.5	0.0	2.0950	0.01	3.1e−03	0
	−7.3529e−01	1.5730e−01	−1.5138e+01	2.7469e+01	−1.3990e+00	−9.9281e−02	−1.3134e+01	2.4752e+01
^{154}Te	$(n\gamma)^{155}$Te	1.0390e+00	0.0	2.5	0.4550	0.01	5.9e−03	0
	1.4936e+01	−2.4482e−02	3.4757e+00	−1.2670e+01	1.9109e+00	−3.6863e−01	4.0848e+00	3.6840e+01
^{155}Te	$(n\gamma)^{156}$Te	2.3140e+00	2.5	0.0	2.6600	0.01	3.6e−03	0
	−1.1999e+01	2.0281e−01	−2.0697e+01	4.4456e+01	−2.8031e+00	−9.7756e−03	−1.9144e+01	1.3489e+01
^{156}Te	$(n\gamma)^{157}$Te	5.5400e−01	0.0	3.5	0.8850	0.01	6.9e−03	0
	1.3292e+00	1.2578e−01	−9.9633e+00	1.3658e+01	4.4442e−01	−3.0503e−01	−7.3546e+00	2.2946e+01
^{157}Te	$(n\gamma)^{158}$Te	2.1490e+00	3.5	0.0	3.3300	0.01	3.8e−03	0
	−6.2950e+00	1.6754e−01	−1.6818e+01	3.3134e+01	−1.7207e+00	−9.3724e−02	−1.5150e+01	1.9481e+01
^{158}Te	$(n\gamma)^{159}$Te	3.5300e−01	0.0	4.5	n.c.	0.01	6.5e−03	0
	−1.3190e+01	1.9116e−01	−1.7119e+01	3.5919e+01	−1.5632e+00	−1.6789e−01	−1.4851e+01	8.2035e+00
^{159}Te	$(n\gamma)^{160}$Te	1.9340e+00	4.5	0.0	n.c.	0.01	4.2e−03	0
	−1.0351e+01	1.7787e−01	−1.8331e+01	3.8419e+01	−2.1203e+00	−7.4054e−02	−1.6938e+01	1.5648e+01
^{160}Te	$(n\gamma)^{161}$Te	3.3100e−01	0.0	0.5	n.c.	0.01	6.6e−03	0
	−2.8074e+01	1.5410e−01	−1.8763e+01	5.3218e+01	−3.1112e+00	−6.5420e−02	−1.9889e+01	−5.0711e+00
^{161}Te	$(n\gamma)^{162}$Te	1.8270e+00	0.5	0.0	n.c.	0.01	4.6e−03	0
	−5.5968e+00	2.5301e−01	−2.3619e+01	3.8912e+01	−1.6562e+00	−1.1370e−01	−1.9790e+01	1.8793e+01
^{162}Te	$(n\gamma)^{163}$Te	2.0600e−01	0.0	1.5	n.c.	0.01	6.5e−03	0
	−3.0308e+01	1.7043e−01	−1.9899e+01	5.5938e+01	−3.3733e+00	−4.7158e−02	−2.0762e+01	−7.9974e+00
^{163}Te	$(n\gamma)^{164}$Te	1.7140e+00	1.5	0.0	n.c.	0.01	4.4e−03	0
	−6.3402e+00	1.9243e−01	−1.8620e+01	3.3693e+01	−1.5653e+00	−1.1485e−01	−1.6194e+01	1.8743e+01
^{120}I	$(np)^{120}$Te	6.3970e+00	2.0	0.0	0.0100	0.01	6.2e−04	
	7.1494e−01	2.8966e−01	−2.4926e+01	4.3817e+01	−2.5106e+00	1.6832e−01	−2.0893e+01	2.3244e+00
	1.24 1.32	1.19 1.01	0.87 0.77	0.70 0.65	0.62 0.59	0.48 0.45	0.45 0.51	0.71 0.93
^{120}I	$(n\alpha)^{117}$Sb	1.0502e+01	2.0	2.5	0.0100	0.01	1.4e−03	0
	3.0365e+01	−8.3405e−02	3.5206e+00	−2.2901e+01	3.0878e+00	−1.9624e−01	5.6426e+00	2.8835e+01
^{121}I	$(np)^{121}$Te	3.0530e+00	2.5	0.5	0.0100	0.01	2.0e−03	
	1.2728e+01	1.1307e−01	−6.4823e+00	3.1927e+00	2.2092e+00	−2.7754e−01	−3.6570e+00	1.3826e+01
	1.00 1.00	1.02 1.05	1.08 1.12	1.15 1.18	1.22 1.25	1.74 2.58	3.71 5.65	6.37 6.32
^{121}I	$(n\alpha)^{118}$Sb	7.3590e+00	2.5	1.0	0.0100	0.01	3.5e−03	0
	4.8845e+01	−1.8415e−01	1.9167e+01	−6.8468e+01	9.1788e+00	−7.8333e−01	2.1925e+01	4.8190e+01
^{122}I	$(n\gamma)^{123}$I	9.9310e+00	1.0	2.5	0.0100	0.01	3.8e−05	
	1.1114e+01	8.7477e−02	−8.3096e+00	1.8193e+01	−1.1670e+00	−3.4278e−02	−7.4749e+00	3.4115e+01
	1.00 1.00	0.99 0.97	0.96 0.96	0.96 0.96	0.96 0.97	0.92 0.78	0.60 0.27	0.09 0.02
^{122}I	$(np)^{122}$Te	5.0160e+00	1.0	0.0	0.0100	0.01	7.6e−04	0
	4.6576e+01	−6.6178e−02	1.3795e+01	−4.8650e+01	3.9639e+00	−2.0974e−01	1.6769e+01	4.7675e+01
^{122}I	$(n\alpha)^{119}$Sb	9.0490e+00	1.0	2.5	0.0100	0.01	2.8e−03	
	4.9970e+01	−2.6763e−01	2.5700e+01	−7.0822e+01	6.5216e+00	−3.9977e−01	2.6098e+01	4.7928e+01
	1.00 1.01	1.00 0.99	0.97 0.94	0.92 0.90	0.88 0.87	0.85 0.95	1.29 3.79	12.13 24.82
^{123}I	$(n\gamma)^{124}$I	7.5070e+00	2.5	2.0	0.0100	0.01	1.6e−03	
	1.1278e+01	1.1913e−01	−1.0770e+01	1.9555e+01	−5.9529e−01	−1.3810e−01	−9.0792e+00	3.5154e+01
	1.00 1.00	1.00 1.00	0.99 0.99	0.98 0.97	0.97 0.96	0.95 0.91	0.77 0.31	0.07 0.01
^{123}I	$(np)^{123}$Te	2.0250e+00	2.5	0.5	0.0100	0.01	4.3e−03	0
	−3.5972e+01	3.8212e−01	−3.5730e+01	7.9538e+01	−2.6212e+00	−2.3863e−02	−3.2786e+01	−3.4874e+01
^{123}I	$(n\alpha)^{120}$Sb	6.1390e+00	2.5	1.0	0.0100	0.01	8.9e−03	0
	4.3297e+01	−1.2827e−01	1.4721e+01	−6.5340e+01	1.0785e+01	−9.8563e−01	1.8778e+01	4.2641e+01
^{124}I	$(n\gamma)^{125}$I	9.5490e+00	2.0	2.5	0.0100	0.01	4.2e−05	
	1.6199e+01	6.6496e−02	−5.5454e+00	9.6873e+00	−5.5924e−01	−7.1748e−02	−4.4173e+00	3.9710e+01
	1.00 1.01	1.01 1.01	1.00 0.99	0.98 0.97	0.96 0.95	0.84 0.69	0.51 0.22	0.07 0.02
^{124}I	$(np)^{124}$Te	3.9410e+00	2.0	0.0	0.0100	0.01	2.3e−03	0
	2.7565e+01	2.1126e−02	2.4009e+00	−1.9296e+01	2.1129e+00	−8.4044e−02	4.7897e+00	2.9174e+01
^{124}I	$(n\alpha)^{121}$Sb	7.8710e+00	2.0	2.5	0.0100	0.01	2.5e−03	
	6.8909e+01	−3.7927e−01	3.8604e+01	−1.0907e+02	1.0233e+01	−6.6636e−01	3.9713e+01	6.7377e+01
	1.00 1.02	1.02 1.01	0.99 0.97	0.94 0.91	0.90 0.88	0.86 1.06	1.74 8.24	31.17 77.70

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{125}I	$(n\gamma)^{126}$I	7.1450e+00	2.5	2.0	0.0100	0.01	1.9e−03	
	7.5644e+00	1.3232e−01	−1.2527e+01	2.5120e+01	−1.1939e+00	−8.7785e−02	−1.1042e+01	3.1440e+01
	1.00 1.00	1.00 0.99	0.98 0.98	0.98 0.97	0.97 0.97	0.93 0.88	0.72 0.26	0.06 0.01
^{125}I	$(np)^{125}$Te	9.6900e−01	2.5	0.5	0.0100	0.01	8.7e−03	0
	−1.3125e+02	2.7591e−01	−4.1304e+01	1.8157e+02	−1.3725e+01	7.1443e−01	−5.3382e+01	−1.3015e+02
^{125}I	$(n\alpha)^{122}$Sb	5.1290e+00	2.5	2.0	0.0100	0.01	2.9e−02	0
	−3.1783e+01	4.1943e−01	−4.3133e+01	6.8155e+01	3.1623e+00	−6.5023e−01	−3.6129e+01	−3.2951e+01
^{126}I	$(n\gamma)^{127}$I	9.1430e+00	2.0	2.5	0.0100	0.01	2.4e−05	
	1.6918e+01	4.0304e−02	−3.3648e+00	6.4037e+00	−4.9087e−01	−6.7684e−02	−2.7313e+00	4.0430e+01
	1.00 1.00	0.99 0.99	0.98 0.98	0.98 0.97	0.97 0.96	0.85 0.68	0.50 0.21	0.07 0.02
^{126}I	$(np)^{126}$Te	2.9370e+00	2.0	0.0	0.0100	0.01	1.5e−03	0
	3.0703e+01	−7.8941e−03	5.8307e+00	−3.0796e+01	3.7965e+00	−2.2854e−01	8.5465e+00	3.2312e+01
^{126}I	$(n\alpha)^{123}$Sb	6.9530e+00	2.0	3.5	0.0100	0.01	4.7e−03	0
	8.2795e+01	−4.7427e−01	4.9628e+01	−1.4064e+02	1.3718e+01	−9.3985e−01	5.0964e+01	8.0975e+01
^{127}I	$(n\gamma)^{128}$I	6.8260e+00	2.5	1.0	0.0100	0.01	1.3e−03	
	1.0635e+01	9.6367e−02	−9.2081e+00	1.7588e+01	−5.7767e−01	−1.2984e−01	−8.0680e+00	3.5022e+01
	1.00 1.00	0.99 0.99	0.98 0.99	1.00 1.00	1.00 1.00	1.00 0.93	0.78 0.32	0.08 0.02
^{127}I	$(np)^{127}$Te	8.5000e−02	2.5	1.5	0.0100	0.01	3.6e−04	0
	1.9363e+01	2.3066e+00	−1.1050e+02	8.0450e+01	−5.4109e+00	2.9336e−01	−3.8065e+01	1.9769e+01
^{127}I	$(n\alpha)^{124}$Sb	4.2770e+00	2.5	3.0	0.0100	0.01	3.9e−02	0
	−1.2958e+02	−2.4381e−01	−6.1141e+01	1.8684e+02	−6.3925e+00	−7.7813e−02	−7.1427e+01	−1.3109e+02
^{128}I	$(n\gamma)^{129}$I	8.8320e+00	1.0	3.5	0.0100	0.01	3.9e−04	
	1.7693e+01	9.3758e−02	−7.5825e+00	8.4049e+00	9.3244e−02	−1.4042e−01	−5.4473e+00	4.0406e+01
	1.05 1.11	1.12 1.10	1.07 1.03	1.01 0.98	0.97 0.95	0.89 0.83	0.69 0.34	0.11 0.03
^{128}I	$(np)^{128}$Te	2.0330e+00	1.0	0.0	0.0100	0.01	1.7e−03	0
	1.1504e+01	2.1558e−01	−1.4984e+01	3.1964e+00	4.3245e+00	−4.7717e−01	−8.9012e+00	1.2603e+01
^{128}I	$(n\alpha)^{125}$Sb	6.1660e+00	1.0	3.5	0.0100	0.01	1.0e−03	0
	1.0793e+02	−5.2674e−01	5.8787e+01	−1.8440e+02	1.9975e+01	−1.5578e+00	6.3459e+01	1.0560e+02
^{129}I	$(n\gamma)^{130}$I	6.5000e+00	3.5	5.0	0.0100	0.01	1.1e−03	
	1.0626e+01	6.5137e−02	−7.0977e+00	1.4523e+01	−2.8866e−01	−1.4863e−01	−6.6856e+00	3.4001e+01
	0.99 0.96	0.94 0.92	0.92 0.91	0.91 0.90	0.90 0.89	0.82 0.74	0.63 0.28	0.07 0.02
^{129}I	$(n\alpha)^{126}$Sb	3.5410e+00	3.5	8.0	0.0100	0.01	3.8e−02	0
	−3.3259e+02	2.0634e+00	−2.2620e+02	5.7167e+02	−3.4842e+01	1.7531e+00	−2.2379e+02	−3.3469e+02
^{130}I	$(n\gamma)^{131}$I	8.5830e+00	5.0	3.5	0.0100	0.01	2.1e−05	
	1.1418e+01	8.8186e−02	−8.7000e+00	1.5938e+01	−7.0929e−01	−7.1583e−02	−7.6451e+00	3.5431e+01
	1.00 0.95	0.89 0.83	0.81 0.78	0.77 0.76	0.76 0.75	0.72 0.64	0.51 0.25	0.09 0.03
^{130}I	$(np)^{130}$Te	1.2030e+00	5.0	0.0	0.0100	0.01	3.6e−03	0
	−1.5841e+02	1.3619e+00	−1.3163e+02	3.0242e+02	−1.9061e+01	1.0715e+00	−1.2143e+02	−1.5601e+02
^{130}I	$(n\alpha)^{127}$Sb	5.4230e+00	5.0	3.5	0.0100	0.01	7.1e−03	0
	3.7668e+01	−5.3501e−03	4.8907e+00	−5.7375e+01	1.1549e+01	−1.0286e+00	1.1948e+01	3.6636e+01
^{131}I	$(n\gamma)^{132}$I	6.3300e+00	3.5	4.0	0.0100	0.01	7.5e−04	
	1.9114e+01	2.2742e−02	−1.8301e+00	−1.2328e+00	1.0569e+00	−2.3195e−01	−1.0028e+00	4.2690e+01
	1.00 1.00	1.00 1.00	0.99 0.98	0.97 0.96	0.95 0.94	0.86 0.79	0.68 0.35	0.11 0.03
^{131}I	$(n\alpha)^{128}$Sb	2.8130e+00	3.5	8.0	0.0100	0.01	6.3e−02	0
	−4.5001e+02	1.9769e+00	−2.4061e+02	7.0928e+02	−4.9996e+01	2.9029e+00	−2.5625e+02	−4.5211e+02
^{132}I	$(n\gamma)^{133}$I	8.2460e+00	4.0	3.5	0.0100	0.01	7.3e−06	
	1.8192e+01	−2.9695e−03	−3.5409e−02	−1.3359e+00	3.9118e−01	−1.2702e−01	−2.4598e−02	4.2005e+01
	0.97 0.96	0.95 0.96	0.97 0.98	0.99 1.00	1.01 1.02	1.00 0.88	0.72 0.39	0.15 0.05
^{132}I	$(np)^{132}$Te	2.8900e−01	4.0	0.0	0.0100	0.01	1.6e−03	0
	7.7281e+01	−2.4022e−01	7.4510e+01	−1.7433e+02	9.1174e+00	−5.0177e−01	8.9648e+01	7.9478e+01
^{132}I	$(n\alpha)^{129}$Sb	4.5700e+00	4.0	3.5	0.0100	0.01	3.7e−02	0
	−5.1140e+01	−2.5702e−01	−2.6970e+01	6.5901e+01	2.8325e+00	−5.6567e−01	−3.0360e+01	−5.2374e+01
^{133}I	$(n\gamma)^{134}$I	6.1480e+00	3.5	4.0	0.0100	0.01	9.1e−05	
	2.5295e+01	−4.3060e−02	4.6831e+00	−1.5962e+01	2.1194e+00	−2.7834e−01	5.0210e+00	4.8872e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.93 0.86	0.77 0.50	0.21 0.06
^{133}I	$(n\alpha)^{130}$Sb	2.1620e+00	3.5	8.0	0.0100	0.01	7.8e−02	0
	−4.1663e+02	−3.4458e+00	−1.2840e+02	5.5554e+02	−4.3871e+01	2.6899e+00	−1.7192e+02	−4.1874e+02
^{134}I	$(n\gamma)^{135}$I	7.9040e+00	4.0	3.5	0.0100	0.01	7.8e−05	
	1.6682e+01	4.6675e−02	−4.4115e+00	2.3715e+00	8.5536e−01	−1.8189e−01	−3.2318e+00	4.0494e+01
	1.00 0.96	0.93 0.90	0.88 0.87	0.86 0.86	0.85 0.85	0.89 0.92	0.88 0.59	0.28 0.10
^{134}I	$(n\alpha)^{131}$Sb	3.7130e+00	4.0	3.5	0.0100	0.01	4.9e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−2.3280e+02	1.0850e+00	−1.5488e+02	3.8801e+02	−2.0156e+01	8.0951e−01	−1.5527e+02	−2.3403e+02
^{135}I	$(n\gamma)^{136}$I	3.7820e+00	3.5	1.0	0.0150	0.01	6.2e−04	0
	3.8829e+01	−1.0399e−01	1.4063e+01	−4.6761e+01	4.8814e+00	−4.4095e−01	1.6000e+01	6.3504e+01
^{136}I	$(n\gamma)^{137}$I	5.0740e+00	1.0	3.5	0.1700	0.01	3.9e−03	0
	1.9780e+01	1.1092e−02	−2.9192e−01	−7.7464e+00	2.2084e+00	−3.4670e−01	8.5945e−01	4.2494e+01
^{137}I	$(n\gamma)^{138}$I	3.8700e+00	3.5	2.0	0.0550	0.01	5.1e−05	0
	2.4069e+01	−7.2753e−02	7.2618e+00	−2.0555e+01	2.3359e+00	−2.7809e−01	7.1349e+00	4.8234e+01
^{138}I	$(n\gamma)^{139}$I	4.6150e+00	2.0	3.5	0.0550	0.01	6.7e−05	0
	3.4319e+01	−1.1846e−01	1.3444e+01	−3.5527e+01	2.7608e+00	−2.7577e−01	1.3622e+01	5.7544e+01
^{139}I	$(n\gamma)^{140}$I	2.9660e+00	3.5	0.0	0.0250	0.01	2.3e−04	0
	2.1288e+01	−2.4618e−02	3.4275e+00	−1.3332e+01	1.5248e+00	−2.2758e−01	4.1179e+00	4.7062e+01
^{140}I	$(n\gamma)^{141}$I	4.6090e+00	0.0	0.5	0.0700	0.01	2.0e−04	0
	1.0683e+01	3.5608e−01	−2.9271e+01	3.4100e+01	−8.0327e−01	−9.2378e−02	−2.1360e+01	3.3685e+01
^{141}I	$(n\gamma)^{142}$I	2.7380e+00	0.5	1.0	0.0100	0.01	6.8e−04	0
	3.0371e+01	1.0108e−01	−4.1060e+00	−1.4956e+01	2.3528e+00	−3.1152e−01	1.0306e+00	5.3661e+01
^{142}I	$(n\gamma)^{143}$I	4.4860e+00	1.0	1.5	0.0500	0.01	2.9e−04	0
	1.9205e+01	2.4402e−01	−1.8835e+01	1.3753e+01	5.5161e−01	−1.8853e−01	−1.2325e+01	4.2613e+01
^{143}I	$(n\gamma)^{144}$I	2.6740e+00	1.5	1.0	0.0100	0.01	1.0e−03	0
	2.6897e+01	6.2701e−02	−2.1701e+00	−1.3520e+01	2.1190e+00	−3.0777e−01	1.4761e+00	5.0880e+01
^{144}I	$(n\gamma)^{145}$I	4.2520e+00	1.0	0.5	0.0400	0.01	3.4e−04	0
	1.5184e+01	2.6590e−01	−2.1453e+01	2.0927e+01	−3.4478e−02	−1.5820e−01	−1.5050e+01	3.9285e+01
^{145}I	$(n\gamma)^{146}$I	2.6560e+00	0.5	1.0	0.0100	0.01	1.4e−03	0
	1.6441e+01	2.2505e−01	−1.7581e+01	1.3623e+01	6.4119e−01	−2.3273e−01	−1.1707e+01	3.9731e+01
^{146}I	$(n\gamma)^{147}$I	3.9020e+00	1.0	0.5	0.0350	0.01	4.5e−04	0
	1.1475e+01	2.7918e−01	−2.3358e+01	2.6442e+01	−4.6585e−01	−1.3398e−01	−1.7170e+01	3.5575e+01
^{147}I	$(n\gamma)^{148}$I	2.4040e+00	0.5	3.0	0.0100	0.01	1.6e−03	0
	1.0043e+01	2.4961e−01	−2.1049e+01	2.3656e+01	−1.4420e−01	−1.8431e−01	−1.5548e+01	3.2485e+01
^{148}I	$(n\gamma)^{149}$I	3.6820e+00	3.0	1.5	0.0400	0.01	6.4e−04	0
	1.8962e+01	1.4567e−01	−1.1254e+01	5.1459e+00	7.2034e−01	−2.0221e−01	−7.0592e+00	4.3218e+01
^{149}I	$(n\gamma)^{150}$I	2.0660e+00	1.5	3.0	0.0100	0.01	2.2e−03	0
	1.3528e+01	1.5186e−01	−1.2448e+01	1.0041e+01	5.9972e−01	−2.3334e−01	−8.6351e+00	3.6664e+01
^{150}I	$(n\gamma)^{151}$I	3.4060e+00	3.0	1.5	0.0550	0.01	7.3e−04	0
	1.4491e+01	1.7908e−01	−1.5051e+01	1.3259e+01	2.9253e−01	−1.8532e−01	−1.0717e+01	3.8746e+01
^{151}I	$(n\gamma)^{152}$I	1.9860e+00	1.5	2.0	0.0100	0.01	2.2e−03	0
	9.1374e+00	1.7265e−01	−1.5003e+01	1.6986e+01	1.0063e−02	−1.9256e−01	−1.1311e+01	3.2610e+01
^{152}I	$(n\gamma)^{153}$I	3.0910e+00	2.0	1.5	0.0700	0.01	7.4e−04	0
	1.1303e+01	1.9865e−01	−1.7165e+01	1.8632e+01	−1.6987e−01	−1.5572e−01	−1.2797e+01	3.5223e+01
^{153}I	$(n\gamma)^{154}$I	1.7790e+00	1.5	3.0	0.0150	0.01	2.3e−03	0
	6.4411e+00	1.8422e−01	−1.6387e+01	2.0738e+01	−2.7621e−01	−1.7545e−01	−1.2748e+01	2.9577e+01
^{154}I	$(n\gamma)^{155}$I	2.8470e+00	3.0	1.5	0.0950	0.01	7.0e−04	0
	1.4533e+01	1.4446e−01	−1.2067e+01	9.2588e+00	3.6162e−01	−1.8553e−01	−8.4154e+00	3.8789e+01
^{155}I	$(n\gamma)^{156}$I	1.6290e+00	1.5	2.0	0.0200	0.01	2.4e−03	0
	3.7973e+00	1.9989e−01	−1.8033e+01	2.4202e+01	−4.4947e−01	−1.6910e−01	−1.4284e+01	2.7270e+01
^{156}I	$(n\gamma)^{157}$I	2.3860e+00	2.0	4.5	0.1550	0.01	5.5e−04	0
	1.3922e+01	1.2974e−01	−1.0692e+01	7.6634e+00	2.8286e−01	−1.7417e−01	−7.3283e+00	3.6925e+01
^{157}I	$(n\gamma)^{158}$I	9.9800e−01	4.5	5.0	0.0500	0.01	3.4e−03	0
	−2.1006e+00	1.4102e−01	−1.3969e+01	2.4046e+01	−6.0929e−01	−1.7359e−01	−1.2172e+01	2.1500e+01
^{158}I	$(n\gamma)^{159}$I	2.2050e+00	5.0	4.5	0.3800	0.01	1.1e−03	0
	1.3032e+01	1.1875e−01	−1.0030e+01	6.4179e+00	6.4222e−01	−2.1904e−01	−6.9253e+00	3.6824e+01
^{159}I	$(n\gamma)^{160}$I	8.4700e−01	4.5	5.0	0.0650	0.01	3.8e−03	0
	−5.0292e+00	1.5952e−01	−1.5896e+01	2.8483e+01	−8.8870e−01	−1.6160e−01	−1.4001e+01	1.8572e+01
^{160}I	$(n\gamma)^{161}$I	2.0320e+00	5.0	4.5	0.4950	0.01	1.2e−03	0
	1.1187e+01	1.2891e−01	−1.1097e+01	8.9999e+00	4.7797e−01	−2.1485e−01	−7.9545e+00	3.4979e+01
^{161}I	$(n\gamma)^{162}$I	7.2800e−01	4.5	4.0	0.0850	0.01	4.1e−03	0
	−1.0646e+01	1.8460e−01	−1.8824e+01	3.7038e+01	−1.5507e+00	−1.2431e−01	−1.7084e+01	1.3156e+01
^{162}I	$(n\gamma)^{163}$I	1.9210e+00	4.0	4.5	0.6150	0.01	1.3e−03	0
	9.0608e+00	1.6158e−01	−1.4143e+01	1.4038e+01	2.8616e−01	−2.1320e−01	−1.0506e+01	3.2652e+01
^{163}I	$(n\gamma)^{164}$I	5.5400e−01	4.5	5.0	n.c.	0.01	4.6e−03	0
	−1.8836e+01	2.1072e−01	−2.2270e+01	4.8125e+01	−2.3305e+00	−8.5466e−02	−2.0955e+01	4.7654e+00
^{164}I	$(n\gamma)^{165}$I	1.5920e+00	5.0	1.5	n.c.	0.01	1.3e−03	0
	1.0725e+01	1.0337e−01	−8.8302e+00	5.7307e+00	7.0949e−01	−2.3746e−01	−6.1604e+00	3.5433e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{165}I	$(n\gamma)^{166}$I	4.2000e−01	1.5	0.0	n.c.	0.01	3.6e−03	0
	−2.6491e+01	2.9743e−01	−3.0576e+01	6.4394e+01	−3.4162e+00	−1.1026e−02	−2.8257e+01	−1.4083e+00
^{122}Xe	$(np)^{122}$I	1.6770e+00	0.0	1.0	0.0100	0.01	4.5e−03	
	−1.2391e+02	8.3699e−01	−8.9412e+01	2.3012e+02	−1.3323e+01	5.5452e−01	−8.8842e+01	−1.2501e+02
	1.00 1.00	1.00 1.01	1.02 1.07	1.17 1.32	1.51 1.73	5.78 14.32	26.85 42.15	31.09 20.50
^{122}Xe	$(n\alpha)^{119}$Te	7.6510e+00	0.0	0.5	0.0100	0.01	3.7e−03	0
	2.3225e+01	7.7179e−03	1.1130e+00	−2.1675e+01	5.8135e+00	−5.8520e−01	3.9047e+00	2.1183e+01
^{123}Xe	$(np)^{123}$I	3.4580e+00	0.5	2.5	0.0100	0.01	2.3e−04	
	4.8305e+01	−1.4880e−01	2.0585e+01	−6.0916e+01	6.2986e+00	−4.9527e−01	2.2129e+01	4.7206e+01
	1.00 1.00	1.02 1.06	1.10 1.14	1.16 1.17	1.17 1.17	1.25 1.57	2.03 3.38	4.38 3.99
^{123}Xe	$(n\alpha)^{120}$Te	9.7920e+00	0.5	0.0	0.0100	0.01	1.4e−03	0
	5.2116e+01	−1.9633e−01	2.2563e+01	−6.8228e+01	6.5215e+00	−4.3743e−01	2.4012e+01	5.1460e+01
^{124}Xe	$(n\gamma)^{125}$Xe	7.6030e+00	0.0	0.5	0.0100	0.01	3.6e−03	
	1.4066e+01	7.6834e−02	−7.0951e+00	1.1235e+01	7.9712e−01	−3.0245e−01	−5.9178e+00	3.7067e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.02	1.03 1.04	1.21 1.32	1.32 0.64	0.12 0.02
^{124}Xe	$(np)^{124}$I	4.8800e−01	0.0	2.0	0.0100	0.01	1.9e−02	0
	9.6678e+01	−1.9324e+00	1.9458e+02	−3.1182e+02	1.6470e+01	−1.0376e+00	1.6739e+02	9.5068e+01
^{124}Xe	$(n\alpha)^{121}$Te	6.5410e+00	0.0	0.5	0.0100	0.01	1.6e−02	0
	2.7048e+01	−6.5744e−01	2.5144e+01	−5.7311e+01	9.7242e+00	−9.3751e−01	2.0367e+01	2.5006e+01
^{125}Xe	$(n\gamma)^{126}$Xe	1.0055e+01	0.5	0.0	0.0100	0.01	5.6e−04	
	1.3269e+01	4.2489e−02	−4.3983e+00	1.1185e+01	−4.4372e−01	−1.2454e−01	−4.2829e+00	3.7656e+01
	1.00 1.00	1.01 1.02	1.04 1.07	1.10 1.13	1.15 1.17	1.21 1.09	0.87 0.35	0.08 0.02
^{125}Xe	$(np)^{125}$I	2.4350e+00	0.5	2.5	0.0100	0.01	2.2e−03	0
	6.3273e+01	−2.6862e−01	3.4001e+01	−9.8091e+01	1.1028e+01	−9.8621e−01	3.5801e+01	6.2174e+01
^{125}Xe	$(n\alpha)^{122}$Te	8.7590e+00	0.5	0.0	0.0100	0.01	2.4e−03	
	7.2274e+01	−3.6803e−01	4.0835e+01	−1.1241e+02	9.9922e+00	−6.4780e−01	4.1583e+01	7.1618e+01
	1.00 1.00	1.01 1.01	1.00 0.99	0.95 0.92	0.88 0.84	0.65 0.67	0.85 2.41	7.87 14.68
^{126}Xe	$(n\gamma)^{127}$Xe	7.2230e+00	0.0	0.5	0.0100	0.01	3.0e−03	
	1.6720e+01	4.5973e−02	−4.2110e+00	4.8474e+00	1.2645e+00	−3.3289e−01	−3.3335e+00	3.9721e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.02 1.03	1.17 1.30	1.30 0.65	0.12 0.02
^{126}Xe	$(n\alpha)^{123}$Te	5.6440e+00	0.0	0.5	0.0100	0.01	1.9e−02	0
	−2.9113e+01	4.4435e−01	−4.1041e+01	6.5520e+01	2.9036e+00	−6.0329e−01	−3.4493e+01	−3.1156e+01
^{127}Xe	$(n\gamma)^{128}$Xe	9.6070e+00	0.5	0.0	0.0100	0.01	9.7e−04	
	1.8036e+01	1.9163e−02	−1.6126e+00	2.3359e+00	4.1841e−01	−1.9496e−01	−1.2648e+00	4.2423e+01
	1.00 1.00	1.00 1.01	1.01 1.03	1.05 1.07	1.09 1.12	1.14 1.07	0.91 0.39	0.09 0.02
^{127}Xe	$(np)^{127}$I	1.4450e+00	0.5	2.5	0.0100	0.01	2.8e−03	0
	−1.9170e+01	−5.4401e−02	4.1470e+00	1.6773e+01	4.3006e−01	−1.7890e−01	−1.9950e−02	−2.0269e+01
^{127}Xe	$(n\alpha)^{124}$Te	7.8450e+00	0.5	0.0	0.0100	0.01	1.9e−03	
	1.0039e+02	−6.9497e−01	6.5917e+01	−1.7330e+02	1.5449e+01	−1.0428e+00	6.5081e+01	9.9730e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.94	0.90 0.86	0.67 0.79	1.26 5.37	20.78 41.80
^{128}Xe	$(n\gamma)^{129}$Xe	6.9080e+00	0.0	0.5	0.0100	0.01	3.8e−03	
	1.2835e+01	7.3890e−02	−7.0010e+00	1.1436e+01	7.3863e−01	−2.9720e−01	−5.9505e+00	3.5836e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.02	1.15 1.29	1.31 0.63	0.11 0.02
^{128}Xe	$(n\alpha)^{125}$Te	4.8150e+00	0.0	0.5	0.0100	0.01	1.9e−02	0
	−9.4905e+01	8.2648e−01	−8.3720e+01	1.7482e+02	−4.0221e+00	−2.5773e−01	−7.6933e+01	−9.6948e+01
^{129}Xe	$(n\gamma)^{130}$Xe	9.2550e+00	0.5	0.0	0.0100	0.01	9.4e−04	
	1.6693e+01	1.8037e−02	−1.7655e+00	3.3767e+00	3.0517e−01	−1.8503e−01	−1.5810e+00	4.1080e+01
	1.00 1.05	1.08 1.12	1.16 1.20	1.24 1.28	1.32 1.36	1.44 1.37	1.17 0.51	0.12 0.02
^{129}Xe	$(np)^{129}$I	5.8800e−01	0.5	3.5	0.0100	0.01	4.8e−03	0
	3.9884e+01	−1.2051e+00	1.2133e+02	−1.7463e+02	7.7426e+00	−4.0574e−01	1.0219e+02	3.8497e+01
^{129}Xe	$(n\alpha)^{126}$Te	7.0200e+00	0.5	0.0	0.0100	0.01	9.3e−04	0
	1.0624e+02	−1.1796e+00	8.4642e+01	−2.0335e+02	1.8264e+01	−1.2463e+00	7.8510e+01	1.0559e+02
^{130}Xe	$(n\gamma)^{131}$Xe	6.6050e+00	0.0	1.5	0.0100	0.01	3.8e−03	
	1.3506e+01	7.6134e−02	−6.8987e+00	9.7788e+00	9.4590e−01	−3.1050e−01	−5.5819e+00	3.5814e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.09 1.23	1.28 0.65	0.13 0.02
^{130}Xe	$(n\alpha)^{127}$Te	4.0550e+00	0.0	1.5	0.0100	0.01	2.9e−02	0
	−2.2569e+02	1.3893e+00	−1.5800e+02	3.8844e+02	−2.0468e+01	7.8892e−01	−1.5509e+02	−2.2843e+02
^{131}Xe	$(n\gamma)^{132}$Xe	8.9360e+00	1.5	0.0	0.0100	0.01	1.3e−03	
	2.1759e+01	−2.0276e−02	2.0163e+00	−6.7448e+00	1.1825e+00	−2.4421e−01	2.0666e+00	4.6840e+01
	1.00 1.00	0.99 0.99	1.01 1.03	1.05 1.06	1.07 1.07	1.07 1.04	0.92 0.42	0.11 0.02
^{131}Xe	$(n\alpha)^{128}$Te	6.2250e+00	1.5	0.0	0.0100	0.01	7.1e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	8.9590e+01	−7.6432e−01	5.8018e+01	−1.6424e+02	1.7898e+01	−1.3598e+00	5.7858e+01	8.9625e+01
^{132}Xe	$(n\gamma)^{133}$Xe	6.4400e+00	0.0	1.5	0.0100	0.01	3.0e−03	
	1.5499e+01	7.1949e−02	−6.0968e+00	5.7107e+00	1.3782e+00	−3.3155e−01	−4.4534e+00	3.7807e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.05 1.16	1.24 0.73	0.17 0.03
^{132}Xe	$(n\alpha)^{129}$Te	3.3730e+00	0.0	1.5	0.0100	0.01	4.6e−02	0
	−3.9128e+02	2.1627e+00	−2.4595e+02	6.5426e+02	−4.2392e+01	2.2629e+00	−2.4913e+02	−3.9402e+02
^{133}Xe	$(n\gamma)^{134}$Xe	8.5480e+00	1.5	0.0	0.0150	0.01	4.0e−04	
	1.5751e+01	3.9395e−03	−8.6551e−01	1.7472e+00	4.9987e−01	−1.8565e−01	−9.8790e−01	4.0832e+01
	1.00 1.00	1.00 1.00	1.01 1.02	1.04 1.06	1.07 1.09	1.17 1.14	1.03 0.57	0.17 0.04
^{133}Xe	$(n\alpha)^{130}$Te	5.3520e+00	1.5	0.0	0.0150	0.01	1.7e−02	0
	5.2927e+01	−2.9786e−01	2.3417e+01	−9.5871e+01	1.5327e+01	−1.3653e+00	2.7645e+01	5.2961e+01
^{134}Xe	$(n\gamma)^{135}$Xe	6.3820e+00	0.0	1.5	0.0100	0.01	2.2e−03	
	2.1885e+01	2.9226e−02	−1.4114e+00	−7.1048e+00	2.4390e+00	−3.8854e−01	2.8601e−01	4.4193e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.08	1.16 0.81	0.23 0.05
^{134}Xe	$(n\alpha)^{131}$Te	2.7330e+00	0.0	1.5	0.0100	0.01	7.7e−02	0
	−5.0235e+02	2.0978e+00	−2.6074e+02	7.8631e+02	−5.7064e+01	3.3850e+00	−2.8060e+02	−5.0509e+02
^{135}Xe	$(n\gamma)^{136}$Xe	8.0600e+00	1.5	0.0	0.0450	0.01	1.2e−03	
	1.3270e+01	6.5250e−02	−6.0014e+00	7.7343e+00	6.2423e−01	−2.1554e−01	−4.8007e+00	3.8351e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	1.02 1.09	1.08 0.63	0.21 0.05
^{135}Xe	$(n\alpha)^{132}$Te	4.4200e+00	1.5	0.0	0.0450	0.01	4.0e−02	0
	−9.9268e+01	9.4189e−01	−9.1884e+01	1.8124e+02	−3.5635e+00	−2.8401e−01	−8.2466e+01	−9.9234e+01
^{136}Xe	$(n\gamma)^{137}$Xe	4.0250e+00	0.0	3.5	0.0250	0.01	1.5e−04	
	2.8374e+01	−6.1539e−02	7.7972e+00	−2.6898e+01	3.6311e+00	−4.2048e−01	8.7817e+00	4.9989e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.02	1.02 0.78	0.36 0.10
^{136}Xe	$(n\alpha)^{133}$Te	2.1810e+00	0.0	1.5	0.0250	0.01	5.5e−02	0
	−4.9557e+02	−3.7868e+00	−2.0329e+02	7.1942e+02	−5.4728e+01	3.3390e+00	−2.4171e+02	−4.9831e+02
^{137}Xe	$(n\gamma)^{138}$Xe	5.8120e+00	3.5	0.0	0.6900	0.01	4.7e−04	
	1.1085e+01	2.4541e−02	−3.1643e+00	5.1679e+00	5.4896e−01	−1.8665e−01	−3.0442e+00	3.6859e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.87 0.48	0.17 0.05
^{137}Xe	$(n\alpha)^{134}$Te	5.6620e+00	3.5	0.0	0.6900	0.01	2.1e−02	0
	2.9300e+01	−1.1910e−01	7.0226e+00	−5.0060e+01	1.1012e+01	−1.0732e+00	1.0958e+01	3.0027e+01
^{138}Xe	$(n\gamma)^{139}$Xe	3.6010e+00	0.0	1.5	0.0500	0.01	7.0e−04	0
	3.3446e+01	−1.0206e−01	1.1927e+01	−3.6203e+01	4.2087e+00	−4.7444e−01	1.2648e+01	5.5754e+01
^{139}Xe	$(n\gamma)^{140}$Xe	5.4220e+00	1.5	0.0	0.3500	0.01	7.9e−04	0
	1.1561e+01	−4.6031e−03	−1.2576e+00	1.4271e+00	1.0987e+00	−2.5255e−01	−1.7381e+00	3.6643e+01
^{140}Xe	$(n\gamma)^{141}$Xe	3.3930e+00	0.0	2.5	0.0350	0.01	6.4e−03	0
	2.6311e+01	−1.4872e−02	3.5378e+00	−2.0623e+01	3.6822e+00	−5.1486e−01	5.3213e+00	4.8214e+01
^{141}Xe	$(n\gamma)^{142}$Xe	5.2290e+00	2.5	0.0	0.2750	0.01	6.9e−04	0
	2.6736e+01	−3.1158e−02	5.0457e+00	−1.9325e+01	1.9655e+00	−2.7705e−01	6.2386e+00	5.2222e+01
^{142}Xe	$(n\gamma)^{143}$Xe	3.0420e+00	0.0	2.5	0.0250	0.01	2.7e−03	0
	2.8095e+01	−1.5895e−02	4.2755e+00	−2.3587e+01	3.7339e+00	−5.0547e−01	6.3964e+00	4.9998e+01
^{143}Xe	$(n\gamma)^{144}$Xe	4.9240e+00	2.5	0.0	0.3300	0.01	1.2e−03	0
	2.6111e+01	−9.6019e−03	3.3520e+00	−1.6925e+01	1.8491e+00	−2.8316e−01	4.9934e+00	5.1598e+01
^{144}Xe	$(n\gamma)^{145}$Xe	2.7770e+00	0.0	1.5	0.0300	0.01	1.3e−03	0
	−1.8815e+01	1.6165e−01	−1.9025e+01	5.3558e+01	−3.7206e+00	5.2602e−02	−1.9872e+01	3.4938e+00
^{145}Xe	$(n\gamma)^{146}$Xe	4.9760e+00	1.5	0.0	0.3000	0.01	1.5e−03	0
	3.0296e+01	9.0696e−02	−3.8472e+00	−1.4240e+01	2.3496e+00	−3.4126e−01	8.2557e−01	5.5377e+01
^{146}Xe	$(n\gamma)^{147}$Xe	2.8020e+00	0.0	1.5	0.0250	0.01	1.5e−03	0
	2.0124e+00	5.4263e−02	−6.4115e+00	1.7005e+01	−5.9750e−01	−1.7453e−01	−6.6146e+00	2.4322e+01
^{147}Xe	$(n\gamma)^{148}$Xe	4.4770e+00	1.5	0.0	0.3250	0.01	2.1e−03	0
	1.8426e+01	1.0598e−01	−7.1326e+00	1.9645e+00	5.9966e−01	−2.1640e−01	−3.8121e+00	4.3508e+01
^{148}Xe	$(n\gamma)^{149}$Xe	2.4280e+00	0.0	2.5	0.0450	0.01	3.3e−03	0
	8.6065e+00	−6.3703e−02	4.3383e+00	−1.6201e+00	2.6989e−01	−2.1345e−01	2.3785e+00	3.0510e+01
^{149}Xe	$(n\gamma)^{150}$Xe	4.1550e+00	2.5	0.0	0.5000	0.01	2.5e−03	0
	1.2130e+01	1.1830e−01	−9.5880e+00	1.0674e+01	−7.9298e−02	−1.7819e−01	−6.8971e+00	3.7617e+01
^{150}Xe	$(n\gamma)^{151}$Xe	2.2620e+00	0.0	2.5	0.0550	0.01	3.6e−03	0
	8.8225e+00	−3.6060e−02	2.3388e+00	−2.3145e−01	2.9108e−01	−2.2385e−01	1.1415e+00	3.0726e+01
^{151}Xe	$(n\gamma)^{152}$Xe	3.9040e+00	2.5	0.0	0.5900	0.01	2.8e−03	0
	6.4885e+00	1.5096e−01	−1.3274e+01	2.0325e+01	−8.6342e−01	−1.2882e−01	−1.0616e+01	3.1976e+01
^{152}Xe	$(n\gamma)^{153}$Xe	2.0830e+00	0.0	0.5	0.0700	0.01	4.8e−03	0
	1.2775e+01	−9.3796e−02	7.6432e+00	−1.0433e+01	9.1155e−01	−2.6279e−01	5.6931e+00	3.5778e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{153}Xe	$(n\gamma)^{154}$Xe	3.7050e+00	0.5	0.0	0.7450	0.01	3.3e−03	0
	6.9127e+00	2.2945e−01	−1.9678e+01	2.6443e+01	−9.0302e−01	−1.3814e−01	−1.5130e+01	3.1302e+01
^{154}Xe	$(n\gamma)^{155}$Xe	1.9240e+00	0.0	3.5	0.0950	0.01	5.4e−03	0
	1.8831e+01	−1.4810e−01	1.3559e+01	−2.3742e+01	1.7862e+00	−3.1902e−01	1.1364e+01	4.0448e+01
^{155}Xe	$(n\gamma)^{156}$Xe	3.3920e+00	3.5	0.0	1.0200	0.01	3.4e−03	0
	−5.0670e+00	1.8228e−01	−1.8007e+01	3.6644e+01	−2.2259e+00	−4.5550e−02	−1.6217e+01	2.0709e+01
^{156}Xe	$(n\gamma)^{157}$Xe	1.5110e+00	0.0	2.5	0.1800	0.01	5.4e−03	0
	1.6053e+01	−5.3490e−02	5.4800e+00	−1.4115e+01	1.8475e+00	−3.5967e−01	5.2818e+00	3.7957e+01
^{157}Xe	$(n\gamma)^{158}$Xe	2.8640e+00	2.5	0.0	1.6500	0.01	3.3e−03	0
	−6.1848e+00	1.8638e−01	−1.8457e+01	3.7359e+01	−2.2913e+00	−3.9708e−02	−1.6617e+01	1.9303e+01
^{158}Xe	$(n\gamma)^{159}$Xe	1.0540e+00	0.0	3.5	0.3750	0.01	6.9e−03	0
	1.4952e+01	−3.6926e−02	4.7806e+00	−1.3681e+01	1.8366e+00	−3.6523e−01	5.1188e+00	3.6569e+01
^{159}Xe	$(n\gamma)^{160}$Xe	2.6350e+00	3.5	0.0	2.3050	0.01	3.8e−03	0
	−6.1020e+00	1.7406e−01	−1.7508e+01	3.5300e+01	−2.0236e+00	−6.8143e−02	−1.5863e+01	1.9674e+01
^{160}Xe	$(n\gamma)^{161}$Xe	8.9300e−01	0.0	4.5	0.4850	0.01	7.4e−03	0
	1.0162e+01	−3.6102e−02	4.2273e+00	−8.2506e+00	1.0927e+00	−3.0687e−01	3.9950e+00	3.1556e+01
^{161}Xe	$(n\gamma)^{162}$Xe	2.4880e+00	4.5	0.0	2.5000	0.01	4.2e−03	0
	−9.9250e+00	1.8533e−01	−1.9068e+01	4.0575e+01	−2.4711e+00	−4.1973e−02	−1.7661e+01	1.6074e+01
^{162}Xe	$(n\gamma)^{163}$Xe	7.3800e−01	0.0	0.5	0.5900	0.01	7.8e−03	0
	−8.2976e+00	8.1955e−02	−9.6341e+00	2.5024e+01	−9.5623e−01	−2.0125e−01	−9.8856e+00	1.4706e+01
^{163}Xe	$(n\gamma)^{164}$Xe	2.3200e+00	0.5	0.0	2.7950	0.01	4.6e−03	0
	−5.0105e+00	2.6617e−01	−2.4831e+01	4.1266e+01	−1.9307e+00	−9.2272e−02	−2.0828e+01	1.9379e+01
^{164}Xe	$(n\gamma)^{165}$Xe	5.5200e−01	0.0	1.5	0.7550	0.01	8.2e−03	0
	−1.3615e+01	1.2549e−01	−1.3884e+01	3.4384e+01	−1.5212e+00	−1.7582e−01	−1.3769e+01	8.6958e+00
^{165}Xe	$(n\gamma)^{166}$Xe	2.1860e+00	1.5	0.0	3.1400	0.01	4.8e−03	0
	4.0887e−01	1.6332e−01	−1.6459e+01	3.1824e+01	−1.7949e+00	−9.3077e−02	−1.4791e+01	2.5492e+01
^{166}Xe	$(n\gamma)^{167}$Xe	3.9400e−01	0.0	3.5	n.c.	0.01	1.4e−02	0
	2.4613e+02	−1.3367e+00	1.5300e+02	−4.2827e+02	3.6218e+01	−2.6276e+00	1.5795e+02	2.6775e+02
^{167}Xe	$(n\gamma)^{168}$Xe	1.9020e+00	3.5	0.0	n.c.	0.01	4.2e−03	0
	−1.6526e+01	2.1869e−01	−2.2614e+01	4.9665e+01	−3.1222e+00	−7.0055e−03	−2.1146e+01	9.2506e+00
^{124}Cs	$(np)^{124}$Xe	6.6990e+00	1.0	0.0	0.0100	0.01	6.1e−04	
	3.6093e+01	−5.1870e−02	9.7248e+00	−3.0182e+01	2.6793e+00	−1.9510e−01	1.0991e+01	3.7191e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.97	0.95 0.93	0.77 0.71	0.70 0.74	0.84 0.71
^{124}Cs	$(n\alpha)^{121}$I	1.0187e+01	1.0	2.5	0.0100	0.01	2.7e−04	0
	1.9417e+01	−8.0358e−02	5.1413e+00	−1.1864e+01	1.0739e+00	−1.1503e−02	4.7934e+00	1.7374e+01
^{125}Cs	$(np)^{125}$Xe	3.8750e+00	0.5	0.5	0.0100	0.01	7.1e−04	
	3.8701e+01	−1.0549e−02	7.4307e+00	−3.6158e+01	5.3327e+00	−5.4288e−01	1.0671e+01	3.8701e+01
	1.00 1.00	1.00 1.01	1.02 1.03	1.04 1.05	1.06 1.07	1.23 1.49	1.85 2.03	1.43 0.63
^{125}Cs	$(n\alpha)^{122}$I	7.6180e+00	0.5	1.0	0.0100	0.01	9.7e−03	0
	3.3701e+01	−3.0297e−02	5.4233e+00	−3.7784e+01	7.0700e+00	−6.5669e−01	9.1891e+00	3.1946e+01
^{126}Cs	$(np)^{126}$Xe	5.6080e+00	1.0	0.0	0.0100	0.01	1.3e−03	
	4.6229e+01	−1.4460e−01	1.9641e+01	−5.2595e+01	3.8037e+00	−2.1142e−01	2.0464e+01	4.7328e+01
	1.00 1.00	1.00 1.00	1.01 1.01	1.00 0.98	0.95 0.91	0.63 0.53	0.50 0.55	0.84 0.96
^{126}Cs	$(n\alpha)^{123}$I	9.2270e+00	1.0	2.5	0.0100	0.01	1.2e−03	0
	2.5660e+01	−1.3086e−01	1.0691e+01	−2.7337e+01	2.6631e+00	−1.2933e−01	1.0430e+01	2.3616e+01
^{127}Cs	$(np)^{127}$Xe	2.8630e+00	0.5	0.5	0.0100	0.01	1.7e−04	
	2.4014e+01	5.5761e−02	−2.4154e−01	−1.7213e+01	4.6819e+00	−5.3948e−01	2.9702e+00	2.4014e+01
	1.00 0.99	0.96 0.93	0.90 0.89	0.90 0.91	0.93 0.95	1.41 2.14	2.99 4.99	4.46 1.95
^{127}Cs	$(n\alpha)^{124}$I	6.7660e+00	0.5	2.0	0.0100	0.01	3.6e−03	0
	3.9648e+01	−1.0555e−01	1.2728e+01	−5.6427e+01	9.1250e+00	−8.1005e−01	1.6352e+01	3.7381e+01
^{128}Cs	$(np)^{128}$Xe	4.7120e+00	1.0	0.0	0.0100	0.01	5.5e−03	
	4.2916e+01	2.5072e−02	5.2775e+00	−3.7648e+01	4.4620e+00	−3.6031e−01	9.9475e+00	4.4014e+01
	1.38 1.54	1.40 1.19	1.01 0.87	0.76 0.68	0.62 0.57	0.37 0.32	0.31 0.46	0.69 0.50
^{128}Cs	$(n\alpha)^{125}$I	8.5580e+00	1.0	2.5	0.0100	0.01	3.7e−03	0
	4.5913e+01	−2.0011e−01	1.7459e+01	−5.9975e+01	6.5282e+00	−4.2115e−01	1.9571e+01	4.3869e+01
^{129}Cs	$(n\gamma)^{130}$Cs	7.4680e+00	0.5	1.0	0.0100	0.01	1.7e−03	
	9.0211e+00	1.3530e−01	−1.2721e+01	2.3834e+01	−8.6910e−01	−1.2490e−01	−1.1007e+01	3.2310e+01
	1.35 1.40	1.38 1.36	1.35 1.33	1.33 1.31	1.30 1.30	1.29 1.26	1.06 0.41	0.09 0.02
^{129}Cs	$(np)^{129}$Xe	1.9780e+00	0.5	0.5	0.0100	0.01	3.8e−03	0
	−5.2720e+01	4.5324e−01	−4.5299e+01	1.0767e+02	−4.8602e+00	1.1295e−01	−4.3294e+01	−5.2720e+01
^{129}Cs	$(n\alpha)^{126}$I	6.0610e+00	0.5	2.0	0.0100	0.01	1.1e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	2.0453e+01	8.3030e−02	−5.2542e+00	−2.2519e+01	8.4414e+00	−8.7371e−01	3.7148e−01	1.8186e+01
^{130}Cs	$(n\gamma)^{131}$Cs	9.2370e+00	1.0	2.5	0.0100	0.01	5.9e−05	
	1.4898e+01	5.5034e−02	−5.0602e+00	1.0535e+01	−6.5091e−01	−7.2375e−02	−4.4298e+00	3.7899e+01
	1.00 1.01	1.02 1.02	1.02 1.02	1.03 1.03	1.03 1.03	0.97 0.81	0.60 0.25	0.08 0.02
^{130}Cs	$(np)^{130}$Xe	3.7660e+00	1.0	0.0	0.0100	0.01	4.8e−03	0
	5.4866e+01	−1.2077e−01	1.9793e+01	−6.8212e+01	6.3229e+00	−4.1345e−01	2.3156e+01	5.5965e+01
^{130}Cs	$(n\alpha)^{127}$I	7.7370e+00	1.0	2.5	0.0100	0.01	1.0e−03	0
	6.1903e+01	−3.1903e−01	3.3792e+01	−9.7650e+01	9.5368e+00	−6.2420e−01	3.5123e+01	5.9858e+01
^{131}Cs	$(n\gamma)^{132}$Cs	7.1680e+00	2.5	2.0	0.0100	0.01	1.7e−03	
	6.9001e+00	1.4310e−01	−1.3731e+01	2.6785e+01	−1.1503e+00	−1.0139e−01	−1.2105e+01	3.0777e+01
	1.00 1.00	1.00 0.99	0.97 0.97	0.95 0.95	0.95 0.94	0.94 0.90	0.75 0.28	0.07 0.01
^{131}Cs	$(np)^{131}$Xe	1.1340e+00	2.5	1.5	0.0100	0.01	8.4e−03	0
	−1.6490e+02	7.1769e−01	−8.4280e+01	2.6376e+02	−1.9097e+01	1.0945e+00	−9.1272e+01	−1.6449e+02
^{131}Cs	$(n\alpha)^{128}$I	5.3260e+00	2.5	1.0	0.0100	0.01	1.8e−02	0
	−2.0593e+01	3.9289e−01	−3.6684e+01	4.8506e+01	4.8440e+00	−7.5382e−01	−2.9156e+01	−2.1252e+01
^{132}Cs	$(n\gamma)^{133}$Cs	8.9870e+00	2.0	3.5	0.0100	0.01	7.2e−05	
	1.4070e+01	7.2413e−02	−6.6436e+00	1.2524e+01	−7.3306e−01	−6.5365e−02	−5.6753e+00	3.7294e+01
	1.00 1.00	1.00 0.97	0.95 0.93	0.92 0.91	0.90 0.90	0.84 0.70	0.53 0.23	0.07 0.02
^{132}Cs	$(np)^{132}$Xe	2.9020e+00	2.0	0.0	0.0100	0.01	5.5e−04	0
	3.0014e+01	2.6139e−02	4.3879e+00	−2.9678e+01	3.7186e+00	−2.2903e−01	8.1949e+00	3.1623e+01
^{132}Cs	$(n\alpha)^{129}$I	6.9900e+00	2.0	3.5	0.0100	0.01	6.3e−04	0
	7.2363e+01	−3.5354e−01	3.9089e+01	−1.1883e+02	1.2307e+01	−8.5884e−01	4.1562e+01	7.0541e+01
^{133}Cs	$(n\gamma)^{134}$Cs	6.8920e+00	3.5	4.0	0.0100	0.01	1.8e−03	
	1.0091e+01	1.0947e−01	−1.0445e+01	1.9186e+01	−5.6792e−01	−1.3553e−01	−9.0719e+00	3.3668e+01
	1.00 1.00	0.99 0.98	0.96 0.94	0.92 0.90	0.89 0.87	0.79 0.73	0.61 0.25	0.06 0.01
^{133}Cs	$(np)^{133}$Xe	3.5500e−01	3.5	1.5	0.0100	0.01	8.2e−03	0
	4.8304e+01	−6.4862e−01	9.5780e+01	−1.6156e+02	6.3362e+00	−3.1030e−01	9.5190e+01	4.8997e+01
^{133}Cs	$(n\alpha)^{130}$I	4.5040e+00	3.5	5.0	0.0100	0.01	4.7e−02	0
	−1.2657e+02	3.8901e−01	−8.4364e+01	2.0739e+02	−7.1794e+00	−1.4820e−02	−8.5287e+01	−1.2824e+02
^{134}Cs	$(n\gamma)^{135}$Cs	8.7620e+00	4.0	3.5	0.0100	0.01	2.5e−04	
	2.9266e+01	−3.1953e−02	4.2878e+00	−1.6663e+01	1.8153e+00	−2.4559e−01	5.1094e+00	5.3079e+01
	1.12 1.10	1.07 1.05	1.03 1.01	0.99 0.97	0.95 0.92	0.77 0.67	0.55 0.28	0.10 0.03
^{134}Cs	$(np)^{134}$Xe	2.0110e+00	4.0	0.0	0.0100	0.01	1.4e−03	0
	3.6377e+01	−1.3993e−01	2.1456e+01	−6.1948e+01	7.1094e+00	−5.6518e−01	2.3517e+01	3.8574e+01
^{134}Cs	$(n\alpha)^{131}$I	6.1950e+00	4.0	3.5	0.0100	0.01	4.1e−03	0
	9.0400e+01	−3.2578e−01	4.3077e+01	−1.5058e+02	1.8042e+01	−1.4579e+00	4.8944e+01	8.9166e+01
^{135}Cs	$(n\gamma)^{136}$Cs	6.8280e+00	3.5	6.0	0.0100	0.01	6.3e−04	
	1.5852e+01	2.8361e−02	−2.9034e+00	4.2609e+00	3.6329e−01	−1.7464e−01	−2.5079e+00	3.9062e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.98 0.98	0.91 0.84	0.71 0.33	0.10 0.02
^{135}Cs	$(n\alpha)^{132}$I	3.7630e+00	3.5	4.0	0.0100	0.01	4.3e−02	0
	−3.0467e+02	1.9799e+00	−2.1418e+02	5.2859e+02	−3.1002e+01	1.4957e+00	−2.0964e+02	−3.0614e+02
^{136}Cs	$(n\gamma)^{137}$Cs	8.2790e+00	6.0	3.5	0.0100	0.01	6.0e−06	
	2.6992e+01	−6.5711e−02	6.9917e+00	−1.7922e+01	1.4309e+00	−1.8566e−01	6.8650e+00	5.1173e+01
	1.03 1.06	1.10 1.12	1.14 1.16	1.16 1.17	1.17 1.16	1.02 0.83	0.64 0.32	0.12 0.04
^{136}Cs	$(np)^{136}$Xe	8.6400e−01	6.0	0.0	0.0100	0.01	7.4e−03	0
	−1.1277e+02	2.3730e−01	−2.8640e+01	1.4542e+02	−1.3206e+01	9.0047e−01	−3.7304e+01	−1.1021e+02
^{136}Cs	$(n\alpha)^{133}$I	5.1810e+00	6.0	3.5	0.0100	0.01	2.6e−02	0
	4.8173e+00	−3.1822e−04	−7.3224e+00	−1.2133e+01	8.3939e+00	−8.8421e−01	−3.1165e+00	3.9500e+00
^{137}Cs	$(n\gamma)^{138}$Cs	4.4140e+00	3.5	3.0	0.0100	0.01	2.8e−04	
	3.1325e+01	−9.0422e−02	9.6684e+00	−3.0151e+01	3.7676e+00	−4.2925e−01	1.0025e+01	5.5153e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.98 0.97	0.95 0.69	0.27 0.07
^{137}Cs	$(n\alpha)^{134}$I	3.0500e+00	3.5	4.0	0.0100	0.01	5.1e−02	0
	−4.4626e+02	2.3223e+00	−2.6620e+02	7.3030e+02	−4.8842e+01	2.7225e+00	−2.7374e+02	−4.4773e+02
^{138}Cs	$(n\gamma)^{139}$Cs	5.8840e+00	3.0	3.5	0.0250	0.01	3.7e−05	
	1.9309e+01	−7.6821e−02	5.8864e+00	−1.0583e+01	9.8399e−01	−1.6003e−01	4.4658e+00	4.2871e+01
	0.87 0.80	0.79 0.79	0.80 0.82	0.83 0.85	0.86 0.87	0.90 0.83	0.71 0.41	0.18 0.06
^{138}Cs	$(n\alpha)^{135}$I	6.5410e+00	3.0	3.5	0.0250	0.01	7.3e−03	0
	5.4883e+01	−5.9788e−01	3.9471e+01	−1.0307e+02	1.1777e+01	−9.2544e−01	3.6998e+01	5.3396e+01
^{139}Cs	$(n\gamma)^{140}$Cs	4.4250e+00	3.5	1.0	0.0100	0.01	4.1e−04	0
	2.2732e+01	−4.3784e−02	4.3675e+00	−1.3745e+01	1.7159e+00	−2.5281e−01	4.4239e+00	4.7408e+01
^{140}Cs	$(n\gamma)^{141}$Cs	5.4830e+00	1.0	3.5	0.0150	0.01	2.8e−04	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−1.9262e+00	1.6540e−01	−1.7398e+01	3.5889e+01	−1.7340e+00	−4.1066e−02	−1.6149e+01	2.0788e+01
^{141}Cs	$(n\gamma)^{142}$Cs	4.1180e+00	3.5	0.0	0.0100	0.01	3.5e−04	0
	3.3839e+00	7.4205e−02	−8.5546e+00	2.1065e+01	−1.3065e+00	−5.1831e−02	−8.5710e+00	2.9159e+01
^{142}Cs	$(n\gamma)^{143}$Cs	5.2580e+00	0.0	1.5	0.0100	0.01	6.0e−04	0
	2.2784e+01	2.5870e−01	−1.8318e+01	1.1847e+01	3.1595e−01	−1.5892e−01	−1.0985e+01	4.5093e+01
^{143}Cs	$(n\gamma)^{144}$Cs	3.6820e+00	1.5	0.0	0.0100	0.01	1.0e−03	0
	3.1850e+01	8.2057e−03	3.2263e+00	−2.2164e+01	2.2926e+00	−2.9706e−01	6.0992e+00	5.6931e+01
^{144}Cs	$(n\gamma)^{145}$Cs	4.9190e+00	0.0	1.5	0.0100	0.01	2.6e−04	0
	6.5179e+00	4.0028e−01	−3.3507e+01	4.4442e+01	−1.6557e+00	−5.5434e−02	−2.5295e+01	2.8827e+01
^{145}Cs	$(n\gamma)^{146}$Cs	3.5700e+00	1.5	1.0	0.0100	0.01	1.5e−03	0
	3.1186e+01	3.2667e−02	9.9999e−01	−1.8810e+01	2.1995e+00	−3.0767e−01	4.2903e+00	5.5170e+01
^{146}Cs	$(n\gamma)^{147}$Cs	4.6410e+00	1.0	1.5	0.0100	0.01	3.0e−04	0
	7.1175e+00	3.3787e−01	−2.9199e+01	3.8330e+01	−1.1986e+00	−9.0425e−02	−2.2438e+01	3.0525e+01
^{147}Cs	$(n\gamma)^{148}$Cs	3.3630e+00	1.5	0.0	0.0100	0.01	1.7e−03	0
	2.3601e+01	1.3212e−01	−8.6403e+00	−1.5719e+00	1.3194e+00	−2.6778e−01	−4.0649e+00	4.8683e+01
^{148}Cs	$(n\gamma)^{149}$Cs	4.5020e+00	0.0	1.5	0.0100	0.01	1.3e−04	0
	−9.4521e+00	4.7211e−01	−4.3457e+01	7.1829e+01	−3.6847e+00	6.8183e−02	−3.6106e+01	1.2857e+01
^{149}Cs	$(n\gamma)^{150}$Cs	3.0360e+00	1.5	2.0	0.0100	0.01	1.8e−03	0
	1.6440e+01	1.7828e−01	−1.3900e+01	1.1170e+01	3.3465e−01	−2.0093e−01	−9.2825e+00	3.9913e+01
^{150}Cs	$(n\gamma)^{151}$Cs	4.2270e+00	2.0	1.5	0.0150	0.01	6.2e−04	0
	1.5151e+01	2.2173e−01	−1.8173e+01	1.8212e+01	−1.6541e−01	−1.4793e−01	−1.2940e+01	3.9070e+01
^{151}Cs	$(n\gamma)^{152}$Cs	2.8880e+00	1.5	3.0	0.0100	0.01	1.9e−03	0
	1.1986e+01	1.9862e−01	−1.6496e+01	1.8355e+01	−2.6563e−01	−1.6089e−01	−1.2046e+01	3.5122e+01
^{152}Cs	$(n\gamma)^{153}$Cs	4.0060e+00	3.0	0.5	0.0150	0.01	7.5e−04	0
	1.7813e+01	1.5739e−01	−1.2465e+01	8.9695e+00	2.7585e−01	−1.7263e−01	−8.3062e+00	4.2761e+01
^{153}Cs	$(n\gamma)^{154}$Cs	2.5800e+00	0.5	0.0	0.0100	0.01	2.1e−03	0
	2.4204e+00	3.0630e−01	−2.7304e+01	3.9321e+01	−1.3981e+00	−1.0906e−01	−2.1737e+01	2.6810e+01
^{154}Cs	$(n\gamma)^{155}$Cs	3.8300e+00	0.0	0.5	0.0200	0.01	2.3e−04	0
	−2.2075e+01	4.7921e−01	−4.7732e+01	8.8314e+01	−4.8495e+00	1.2935e−01	−4.2176e+01	9.2795e−01
^{155}Cs	$(n\gamma)^{156}$Cs	2.4640e+00	0.5	3.0	0.0100	0.01	2.2e−03	0
	7.3128e−01	3.0512e−01	−2.7599e+01	4.0832e+01	−1.4984e+00	−1.0551e−01	−2.2260e+01	2.3175e+01
^{156}Cs	$(n\gamma)^{157}$Cs	3.4640e+00	3.0	0.5	0.0300	0.01	7.4e−04	0
	1.6197e+01	1.4412e−01	−1.1644e+01	8.7279e+00	2.3567e−01	−1.7277e−01	−7.9101e+00	4.1146e+01
^{157}Cs	$(n\gamma)^{158}$Cs	2.0060e+00	0.5	2.0	0.0100	0.01	2.5e−03	0
	−1.2635e−01	2.9563e−01	−2.6995e+01	3.9382e+01	−1.1726e+00	−1.4159e−01	−2.1836e+01	2.2654e+01
^{158}Cs	$(n\gamma)^{159}$Cs	2.9130e+00	2.0	0.5	0.0700	0.01	7.0e−04	0
	1.2379e+01	1.7617e−01	−1.4951e+01	1.5039e+01	−8.1519e−02	−1.5970e−01	−1.0899e+01	3.6992e+01
^{159}Cs	$(n\gamma)^{160}$Cs	1.4770e+00	0.5	4.0	0.0200	0.01	2.9e−03	0
	−5.2269e+00	3.2124e−01	−2.9832e+01	4.6494e+01	−1.6199e+00	−1.2189e−01	−2.4652e+01	1.6965e+01
^{160}Cs	$(n\gamma)^{161}$Cs	2.7410e+00	4.0	0.5	0.1300	0.01	1.0e−03	0
	1.0923e+01	1.7775e−01	−1.5485e+01	1.5939e+01	9.3202e−02	−1.8853e−01	−1.1520e+01	3.6124e+01
^{161}Cs	$(n\gamma)^{162}$Cs	1.3450e+00	0.5	5.0	0.0200	0.01	3.1e−03	0
	−9.5172e+00	3.4980e−01	−3.2812e+01	5.3625e+01	−2.1455e+00	−9.1706e−02	−2.7506e+01	1.2475e+01
^{162}Cs	$(n\gamma)^{163}$Cs	2.5150e+00	5.0	0.5	0.1650	0.01	1.1e−03	0
	1.1777e+01	1.4086e−01	−1.2139e+01	1.1129e+01	2.2932e−01	−1.9351e−01	−8.8325e+00	3.7178e+01
^{163}Cs	$(n\gamma)^{164}$Cs	1.1790e+00	0.5	0.0	0.0300	0.01	3.5e−03	0
	−1.4268e+01	3.7738e−01	−3.5763e+01	6.1121e+01	−2.6875e+00	−6.2059e−02	−3.0407e+01	1.0122e+01
^{164}Cs	$(n\gamma)^{165}$Cs	2.3280e+00	0.0	0.5	0.2200	0.01	2.7e−04	0
	−2.9901e+01	4.8333e−01	−4.9403e+01	9.4647e+01	−5.2157e+00	1.3042e−01	−4.4489e+01	−6.8979e+00
^{165}Cs	$(n\gamma)^{166}$Cs	9.9000e−01	0.5	2.0	0.0400	0.01	3.7e−03	0
	−1.7880e+01	3.9855e−01	−3.8003e+01	6.6651e+01	−3.0231e+00	−4.9602e−02	−3.2584e+01	4.9009e+00
^{166}Cs	$(n\gamma)^{167}$Cs	2.2710e+00	2.0	0.5	0.3100	0.01	9.1e−04	0
	−2.9209e+00	3.1175e−01	−2.9001e+01	4.3468e+01	−1.5120e+00	−1.1256e−01	−2.3794e+01	2.1692e+01
^{167}Cs	$(n\gamma)^{168}$Cs	7.8400e−01	0.5	4.0	0.0550	0.01	4.7e−03	0
	−1.8218e+01	3.9894e−01	−3.7835e+01	6.5522e+01	−2.7113e+00	−8.7574e−02	−3.2280e+01	3.9746e+00
^{168}Cs	$(n\gamma)^{169}$Cs	1.9720e+00	4.0	0.5	0.4900	0.01	1.1e−03	0
	9.1581e+00	1.6838e−01	−1.4672e+01	1.4579e+01	2.7378e−01	−2.1614e−01	−1.0869e+01	3.4359e+01
^{169}Cs	$(n\gamma)^{170}$Cs	7.4700e−01	0.5	5.0	0.0900	0.01	3.7e−03	0
	−1.8686e+01	3.8737e−01	−3.6835e+01	6.4762e+01	−2.8814e+00	−6.1347e−02	−3.1561e+01	3.3061e+00
^{126}Ba	$(np)^{126}$Cs	2.4550e+00	0.0	1.0	0.0100	0.01	3.9e−03	
	−1.2027e+01	2.3483e−01	−2.1368e+01	4.1681e+01	1.1821e+00	−3.6480e−01	−1.9087e+01	−1.3126e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.00	1.00 1.01	1.03 1.07	1.14 1.23	1.33 1.43	2.78 5.06	8.82 18.19	16.02 10.90
^{126}Ba	$(n\alpha)^{123}$Xe	8.2240e+00	0.0	0.5	0.0100	0.01	1.4e−03	0
	5.0014e+01	−2.1992e−01	2.4995e+01	−7.3028e+01	8.5449e+00	−6.8090e−01	2.5833e+01	4.7970e+01
^{127}Ba	$(np)^{127}$Cs	4.2320e+00	0.5	0.5	0.0100	0.01	2.1e−04	
	3.1959e+01	1.3448e−02	4.2275e+00	−2.3298e+01	3.1050e+00	−2.6035e−01	6.8382e+00	3.1959e+01
	1.00 1.04	1.09 1.11	1.10 1.07	1.05 1.02	0.99 0.97	0.90 1.00	1.19 1.69	2.11 2.25
^{127}Ba	$(n\alpha)^{124}$Xe	1.0510e+01	0.5	0.0	0.0100	0.01	1.2e−03	0
	1.9877e+01	−2.6941e−02	2.7096e+00	−1.0143e+01	9.9687e−01	9.0259e−03	3.1421e+00	1.9220e+01
^{128}Ba	$(np)^{128}$Cs	1.3030e+00	0.0	1.0	0.0100	0.01	4.1e−03	
	−1.2953e+02	4.6797e−01	−5.9581e+01	2.0271e+02	−1.3404e+01	6.1932e−01	−6.7987e+01	−1.3063e+02
	1.00 1.00	1.01 1.06	1.25 1.61	2.11 2.68	3.28 3.89	9.50 18.14	34.78 63.74	48.21 32.93
^{128}Ba	$(n\alpha)^{125}$Xe	7.4270e+00	0.0	0.5	0.0100	0.01	3.0e−03	0
	5.4333e+01	−3.4774e−01	2.9183e+01	−8.7514e+01	1.1541e+01	−1.0067e+00	2.9819e+01	5.2289e+01
^{129}Ba	$(np)^{129}$Cs	3.2160e+00	0.5	0.5	0.0100	0.01	8.6e−04	
	6.2130e+01	−2.6679e−01	3.2319e+01	−9.0967e+01	9.6645e+00	−8.2018e−01	3.3322e+01	6.2130e+01
	0.83 0.70	0.66 0.66	0.66 0.68	0.69 0.70	0.72 0.73	0.93 1.34	2.08 4.48	5.04 2.63
^{129}Ba	$(n\alpha)^{126}$Xe	9.7520e+00	0.5	0.0	0.0100	0.01	2.1e−03	0
	5.6005e+01	−2.5734e−01	3.0373e+01	−8.1640e+01	7.4738e+00	−5.1370e−01	3.0468e+01	5.5348e+01
^{130}Ba	$(n\gamma)^{131}$Ba	7.4940e+00	0.0	0.5	0.0100	0.01	3.2e−03	
	1.5404e+01	5.9175e−02	−5.5736e+00	7.9464e+00	1.2098e+00	−3.5120e−01	−4.6261e+00	3.8405e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.02 1.04	1.23 1.42	1.41 0.68	0.12 0.01
^{130}Ba	$(np)^{130}$Cs	4.1000e−01	0.0	1.0	0.0100	0.01	7.5e−03	0
	1.1571e+02	−1.8009e+00	1.9543e+02	−3.3468e+02	1.7470e+01	−1.0501e+00	1.7598e+02	1.1461e+02
^{130}Ba	$(n\alpha)^{127}$Xe	6.7020e+00	0.0	0.5	0.0100	0.01	1.3e−03	0
	4.9942e+01	−1.0716e+00	5.3976e+01	−1.1196e+02	1.3054e+01	−1.1078e+00	4.4674e+01	4.7897e+01
^{131}Ba	$(n\gamma)^{132}$Ba	9.8180e+00	0.5	0.0	0.0100	0.01	1.1e−03	
	1.2720e+01	3.0653e−02	−3.6275e+00	1.0899e+01	−4.6996e−01	−1.3191e−01	−3.8829e+00	3.7107e+01
	1.00 1.00	1.01 1.03	1.07 1.12	1.17 1.21	1.24 1.27	1.36 1.26	1.01 0.38	0.08 0.01
^{131}Ba	$(np)^{131}$Cs	2.1530e+00	0.5	2.5	0.0100	0.01	2.7e−03	0
	3.6591e+00	7.4150e−02	−3.7328e+00	5.1964e+00	2.1086e+00	−2.7762e−01	−2.3972e+00	2.5604e+00
^{131}Ba	$(n\alpha)^{128}$Xe	8.8150e+00	0.5	0.0	0.0100	0.01	4.2e−03	
	6.2258e+01	−3.1626e−01	3.5008e+01	−9.5804e+01	8.5220e+00	−5.1848e−01	3.5487e+01	6.1600e+01
	1.00 1.00	1.01 1.01	1.00 0.97	0.94 0.91	0.87 0.85	0.76 0.86	1.12 3.22	13.93 31.95
^{132}Ba	$(n\gamma)^{133}$Ba	7.1900e+00	0.0	0.5	0.0100	0.01	4.5e−03	
	9.5727e+00	8.7388e−02	−8.8473e+00	1.7436e+01	2.4475e−01	−2.6964e−01	−8.0483e+00	3.2574e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.02 1.03	1.16 1.28	1.31 0.57	0.10 0.01
^{132}Ba	$(n\alpha)^{129}$Xe	5.9040e+00	0.0	0.5	0.0100	0.01	2.2e−02	0
	−3.7017e+01	4.8010e−01	−4.5222e+01	7.9682e+01	1.1938e+00	−4.4971e−01	−3.9129e+01	−3.9062e+01
^{133}Ba	$(n\gamma)^{134}$Ba	9.4680e+00	0.5	0.0	0.0100	0.01	8.3e−04	
	−5.7173e+00	1.5059e−01	−1.6926e+01	4.4219e+01	−2.9580e+00	2.9634e−02	−1.7070e+01	1.8670e+01
	1.38 1.40	1.37 1.37	1.36 1.36	1.38 1.39	1.42 1.43	1.63 1.57	1.24 0.42	0.09 0.02
^{133}Ba	$(np)^{133}$Cs	1.3000e+00	0.5	3.5	0.0100	0.01	4.1e−03	0
	−1.2318e+02	4.4616e−01	−5.5006e+01	1.9043e+02	−1.4210e+01	8.4122e−01	−6.2526e+01	−1.2456e+02
^{133}Ba	$(n\alpha)^{130}$Xe	7.9700e+00	0.5	0.0	0.0100	0.01	1.2e−03	
	6.4503e+01	−5.8491e−01	4.6903e+01	−1.1408e+02	1.0142e+01	−6.3155e−01	4.4011e+01	6.3844e+01
	1.19 1.15	1.11 1.09	1.08 1.07	1.05 1.04	1.03 1.01	0.95 1.14	1.72 6.17	28.22 85.43
^{134}Ba	$(n\gamma)^{135}$Ba	6.9720e+00	0.0	1.5	0.0100	0.01	4.5e−03	
	7.0542e+00	1.0854e−01	−1.0760e+01	2.1443e+01	−1.0827e−01	−2.3654e−01	−9.7091e+00	2.9362e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.06 1.16	1.18 0.52	0.10 0.01
^{134}Ba	$(n\alpha)^{131}$Xe	5.1070e+00	0.0	1.5	0.0100	0.01	3.9e−02	0
	−1.1660e+02	9.9686e−01	−1.0141e+02	2.1807e+02	−7.8653e+00	4.0799e−02	−9.3829e+01	−1.1934e+02
^{135}Ba	$(n\gamma)^{136}$Ba	9.1080e+00	1.5	0.0	0.0100	0.01	7.7e−04	
	3.7909e−01	1.0340e−01	−1.1797e+01	3.1545e+01	−2.0279e+00	−2.6115e−02	−1.2042e+01	2.5460e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.02 1.03	1.04 1.06	1.15 1.09	0.89 0.33	0.07 0.01
^{135}Ba	$(np)^{135}$Cs	5.1400e−01	1.5	3.5	0.0100	0.01	6.1e−03	0
	8.4802e+01	−1.7361e+00	1.7654e+02	−2.8222e+02	1.3851e+01	−7.5681e−01	1.5250e+02	8.4109e+01
^{135}Ba	$(n\alpha)^{132}$Xe	7.0710e+00	1.5	0.0	0.0100	0.01	9.2e−04	0
	8.9949e+01	−1.1918e+00	7.8903e+01	−1.8063e+02	1.6351e+01	−1.1229e+00	7.1083e+01	8.9983e+01
^{136}Ba	$(n\gamma)^{137}$Ba	6.9060e+00	0.0	1.5	0.0100	0.01	4.5e−03	
	1.2338e+01	9.3891e−02	−8.4930e+00	1.2047e+01	9.3737e−01	−3.0881e−01	−6.8574e+00	3.4646e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.14	1.23 0.64	0.14 0.02

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{136}Ba	$(n\alpha)^{133}$Xe	4.4030e+00	0.0	1.5	0.0100	0.01	5.0e−02	0
	−2.0474e+02	1.2889e+00	−1.5064e+02	3.5805e+02	−1.7589e+01	5.9271e−01	−1.4597e+02	−2.0747e+02
^{137}Ba	$(n\gamma)^{138}$Ba	8.6120e+00	1.5	0.0	0.0100	0.01	1.0e−03	
	2.8858e+00	1.0794e−01	−1.1585e+01	2.6478e+01	−1.1984e+00	−8.7281e−02	−1.1121e+01	2.7967e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.99	1.04 1.09	0.95 0.43	0.12 0.03
^{137}Ba	$(n\alpha)^{134}$Xe	6.0450e+00	1.5	0.0	0.0100	0.01	4.0e−03	0
	5.9376e+01	−6.6998e−01	4.3763e+01	−1.1854e+02	1.4401e+01	−1.1408e+00	4.1859e+01	5.9409e+01
^{138}Ba	$(n\gamma)^{139}$Ba	4.7240e+00	0.0	3.5	0.0100	0.01	2.8e−03	
	2.7211e+01	−2.8340e−02	4.5023e+00	−2.1177e+01	3.7527e+00	−4.9689e−01	5.8914e+00	4.8826e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.03	1.09 0.71	0.20 0.04
^{138}Ba	$(n\alpha)^{135}$Xe	3.8160e+00	0.0	1.5	0.0100	0.01	4.6e−02	0
	−2.8421e+02	1.8933e+00	−2.0361e+02	4.9362e+02	−2.7164e+01	1.1724e+00	−1.9786e+02	−2.8695e+02
^{139}Ba	$(n\gamma)^{140}$Ba	6.4310e+00	3.5	0.0	0.1400	0.01	2.8e−03	
	−1.8678e+00	1.3500e−01	−1.4583e+01	3.2967e+01	−1.5185e+00	−7.7798e−02	−1.3995e+01	2.3907e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.96	0.82 0.31	0.08 0.02
^{139}Ba	$(n\alpha)^{136}$Xe	7.1530e+00	3.5	0.0	0.1400	0.01	4.9e−03	0
	4.9131e+01	−6.9896e−01	4.0890e+01	−9.6395e+01	1.0434e+01	−7.9583e−01	3.6438e+01	4.9856e+01
^{140}Ba	$(n\gamma)^{141}$Ba	4.5200e+00	0.0	1.5	0.0100	0.01	3.2e−03	0
	1.3665e+01	4.1730e−02	−3.6391e+00	3.2544e+00	1.3088e+00	−3.1900e−01	−2.7124e+00	3.5974e+01
^{141}Ba	$(n\gamma)^{142}$Ba	6.1700e+00	1.5	0.0	0.0550	0.01	1.6e−03	0
	−9.5663e+00	1.8643e−01	−2.0497e+01	4.7203e+01	−2.4936e+00	−3.4237e−02	−1.9868e+01	1.5515e+01
^{142}Ba	$(n\gamma)^{143}$Ba	4.1940e+00	0.0	2.5	0.0100	0.01	3.8e−03	0
	1.9541e+01	1.8486e−02	−5.6502e−01	−6.2924e+00	1.9675e+00	−3.7110e−01	7.0440e−01	4.1445e+01
^{143}Ba	$(n\gamma)^{144}$Ba	5.9040e+00	2.5	0.0	0.0600	0.01	2.1e−03	0
	1.5584e+01	5.2752e−02	−4.8133e+00	3.6026e+00	9.6230e−01	−2.6901e−01	−3.5754e+00	4.1071e+01
^{144}Ba	$(n\gamma)^{145}$Ba	4.3420e+00	0.0	2.5	0.0100	0.01	4.4e−03	0
	3.0737e+01	−5.1130e−03	3.6058e+00	−2.3678e+01	3.6264e+00	−4.9500e−01	6.0984e+00	5.2641e+01
^{145}Ba	$(n\gamma)^{146}$Ba	5.0600e+00	2.5	0.0	0.0750	0.01	1.3e−02	0
	1.8613e+00	2.0937e−01	−1.9634e+01	3.1927e+01	−1.0513e−01	−2.8654e−01	−1.6505e+01	2.7348e+01
^{146}Ba	$(n\gamma)^{147}$Ba	4.5170e+00	0.0	1.5	0.0100	0.01	1.7e−02	0
	−1.2425e+01	3.1050e−01	−2.9727e+01	5.8292e+01	−2.7484e+00	−8.2674e−02	−2.6208e+01	9.8842e+00
^{147}Ba	$(n\gamma)^{148}$Ba	4.6350e+00	1.5	0.0	0.0600	0.01	1.8e−02	0
	−3.1888e+01	4.0370e−01	−4.1541e+01	9.1241e+01	−5.0029e+00	3.3102e−02	−3.8796e+01	−6.8065e+00
^{148}Ba	$(n\gamma)^{149}$Ba	3.5520e+00	0.0	1.5	0.0300	0.01	5.8e−03	0
	4.4469e+00	1.8660e−01	−1.6795e+01	2.5406e+01	1.4776e−01	−3.0000e−01	−1.3622e+01	2.6756e+01
^{149}Ba	$(n\gamma)^{150}$Ba	5.1090e+00	1.5	0.0	0.0750	0.01	2.5e−03	0
	2.0328e+01	1.0330e−01	−6.5076e+00	8.6205e−01	5.4350e−01	−2.0832e−01	−3.1236e+00	4.5410e+01
^{150}Ba	$(n\gamma)^{151}$Ba	3.1890e+00	0.0	2.5	0.0100	0.01	2.1e−03	0
	−9.4408e+00	1.3846e−01	−1.5476e+01	3.9994e+01	−2.4326e+00	−5.9016e−02	−1.5532e+01	1.2463e+01
^{151}Ba	$(n\gamma)^{152}$Ba	4.7350e+00	2.5	0.0	0.1250	0.01	2.7e−03	0
	1.1579e+01	1.1385e−01	−9.3458e+00	1.2659e+01	−4.7129e−01	−1.4573e−01	−7.0114e+00	3.7066e+01
^{152}Ba	$(n\gamma)^{153}$Ba	2.9150e+00	0.0	2.5	0.0150	0.01	5.8e−03	0
	2.3956e+01	−1.7061e−01	1.5834e+01	−2.8431e+01	1.9457e+00	−3.1265e−01	1.3453e+01	4.5861e+01
^{153}Ba	$(n\gamma)^{154}$Ba	4.5280e+00	2.5	0.0	0.1650	0.01	2.8e−03	0
	9.9995e+00	1.3942e−01	−1.1731e+01	1.6373e+01	−6.4005e−01	−1.3947e−01	−8.9831e+00	3.5487e+01
^{154}Ba	$(n\gamma)^{155}$Ba	2.6790e+00	0.0	0.5	0.0200	0.01	3.2e−03	0
	−9.8547e+00	1.2568e−01	−1.4514e+01	3.8455e+01	−2.3581e+00	−7.1246e−02	−1.4831e+01	1.3148e+01
^{155}Ba	$(n\gamma)^{156}$Ba	4.3060e+00	0.5	0.0	0.2500	0.01	3.3e−03	0
	9.0714e+00	2.6160e−01	−2.1550e+01	2.7388e+01	−8.9833e−01	−1.4131e−01	−1.5999e+01	3.3461e+01
^{156}Ba	$(n\gamma)^{157}$Ba	2.5420e+00	0.0	3.5	0.0300	0.01	4.4e−03	0
	5.8469e−01	−2.5706e−03	−2.1249e+00	1.4059e+01	−9.5020e−01	−1.4681e−01	−3.8684e+00	2.2201e+01
^{157}Ba	$(n\gamma)^{158}$Ba	4.0180e+00	3.5	0.0	0.3450	0.01	3.2e−03	0
	−5.2719e−01	1.7069e−01	−1.6278e+01	3.1421e+01	−1.8743e+00	−6.5334e−02	−1.4252e+01	2.5248e+01
^{158}Ba	$(n\gamma)^{159}$Ba	2.0090e+00	0.0	2.5	0.0550	0.01	4.5e−03	0
	6.1891e+00	1.2053e−02	−2.0804e+00	6.0330e+00	2.6635e−01	−2.5535e−01	−2.4373e+00	2.8094e+01
^{159}Ba	$(n\gamma)^{160}$Ba	3.4200e+00	2.5	0.0	0.8600	0.01	3.4e−03	0
	−3.0037e+00	1.9347e−01	−1.8390e+01	3.5260e+01	−2.1308e+00	−5.0140e−02	−1.6048e+01	2.2484e+01
^{160}Ba	$(n\gamma)^{161}$Ba	1.5650e+00	0.0	3.5	0.1450	0.01	6.1e−03	0
	1.1890e+01	−6.5169e−02	5.6690e+00	−9.1499e+00	1.1107e+00	−3.0297e−01	4.5241e+00	3.3507e+01
^{161}Ba	$(n\gamma)^{162}$Ba	3.1800e+00	3.5	0.0	1.3700	0.01	3.9e−03	0
	−3.9559e+00	1.8026e−01	−1.7657e+01	3.4639e+01	−2.0175e+00	−6.7075e−02	−1.5711e+01	2.1820e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{162}Ba	$(n\gamma)^{163}$Ba	1.3630e+00	0.0	4.5	0.2000	0.01	7.4e−03	0
	1.1330e+01	−8.7692e−02	7.8089e+00	−1.1340e+01	1.0463e+00	−2.9645e−01	6.1918e+00	3.2724e+01
^{163}Ba	$(n\gamma)^{164}$Ba	2.9490e+00	4.5	0.0	1.6300	0.01	4.2e−03	0
	−1.0188e+01	2.0069e−01	−2.0437e+01	4.3741e+01	−2.7889e+00	−1.9638e−02	−1.8870e+01	1.5811e+01
^{164}Ba	$(n\gamma)^{165}$Ba	1.2310e+00	0.0	0.5	0.2600	0.01	7.8e−03	0
	−3.2927e+00	5.3399e−02	−6.7387e+00	1.8800e+01	−7.5476e−01	−2.0148e−01	−7.2053e+00	1.9711e+01
^{165}Ba	$(n\gamma)^{166}$Ba	2.7280e+00	0.5	0.0	1.9200	0.01	4.8e−03	0
	−6.6257e+00	2.7741e−01	−2.5912e+01	4.5851e+01	−2.6026e+00	−3.6142e−02	−2.2026e+01	1.7764e+01
^{166}Ba	$(n\gamma)^{167}$Ba	1.0270e+00	0.0	1.5	0.3700	0.01	8.6e−03	0
	−5.8474e+00	8.7588e−02	−9.7745e+00	2.4230e+01	−1.0374e+00	−1.9281e−01	−9.7278e+00	1.6463e+01
^{167}Ba	$(n\gamma)^{168}$Ba	2.6250e+00	1.5	0.0	2.1650	0.01	4.5e−03	0
	−5.4650e+00	2.2756e−01	−2.1632e+01	3.9535e+01	−2.2326e+00	−6.2835e−02	−1.8681e+01	1.9618e+01
^{168}Ba	$(n\gamma)^{169}$Ba	9.8700e−01	0.0	3.5	0.4200	0.01	8.8e−03	0
	1.5614e+00	3.7077e−02	−3.4839e+00	9.5427e+00	−2.8088e−01	−2.2476e−01	−3.3475e+00	2.3179e+01
^{169}Ba	$(n\gamma)^{170}$Ba	2.3120e+00	3.5	0.0	2.4950	0.01	4.5e−03	0
	−2.2823e+01	2.6273e−01	−2.7433e+01	6.3394e+01	−4.4361e+00	8.7585e−02	−2.6065e+01	2.9536e+00
^{170}Ba	$(n\gamma)^{171}$Ba	7.5100e−01	0.0	5.5	0.7350	0.01	6.3e−03	0
	−9.3772e+00	−2.4879e−02	−2.6387e−01	1.7738e+01	−1.8576e+00	−8.3119e−02	−3.0988e+00	1.1835e+01
^{171}Ba	$(n\gamma)^{172}$Ba	2.2810e+00	5.5	0.0	2.8650	0.01	4.6e−03	0
	−1.9372e+01	2.2710e−01	−2.4017e+01	5.5234e+01	−3.6398e+00	2.4216e−02	−2.2917e+01	6.8100e+00
^{134}La	$(np)^{134}$Ba	4.4950e+00	1.0	0.0	0.0100	0.01	6.5e−03	
	6.4368e+01	−2.5214e−01	3.1252e+01	−8.9059e+01	7.8537e+00	−5.6673e−01	3.2608e+01	6.5466e+01
	0.98 0.88	0.79 0.72	0.67 0.62	0.58 0.55	0.52 0.50	0.36 0.31	0.31 0.54	0.84 0.61
^{134}La	$(n\alpha)^{131}$Cs	8.4680e+00	1.0	2.5	0.0100	0.01	1.9e−03	0
	4.6227e+01	−2.1922e−01	2.2611e+01	−6.6597e+01	6.7205e+00	−4.2431e−01	2.3574e+01	4.4182e+01
^{135}La	$(np)^{135}$Ba	1.9820e+00	2.5	1.5	0.0100	0.01	8.1e−03	
	−7.6864e+01	6.4093e−01	−6.4065e+01	1.5284e+02	−8.5274e+00	3.8049e−01	−6.0980e+01	−7.6459e+01
	1.00 1.00	1.00 1.00	1.02 1.05	1.09 1.15	1.21 1.30	2.75 5.70	9.41 14.96	21.21 26.76
^{135}La	$(n\alpha)^{132}$Cs	6.1520e+00	2.5	2.0	0.0100	0.01	2.2e−02	0
	6.8761e+00	2.1241e−01	−1.7115e+01	3.3009e+00	6.8888e+00	−8.0158e−01	−1.0467e+01	5.7058e+00
^{136}La	$(np)^{136}$Ba	3.6520e+00	1.0	0.0	0.0100	0.01	8.3e−04	
	4.4067e+01	−1.1542e−01	1.6640e+01	−5.4697e+01	5.1730e+00	−3.0731e−01	1.8541e+01	4.5166e+01
	0.92 0.74	0.64 0.56	0.49 0.44	0.39 0.35	0.31 0.29	0.19 0.18	0.22 0.54	1.59 3.72
^{136}La	$(n\alpha)^{133}$Cs	7.7010e+00	1.0	3.5	0.0100	0.01	1.2e−03	0
	7.5410e+01	−3.6382e−01	4.0005e+01	−1.2087e+02	1.2121e+01	−8.3059e−01	4.2430e+01	7.3077e+01
^{137}La	$(n\gamma)^{138}$La	7.4740e+00	3.5	5.0	0.0100	0.01	2.6e−03	
	−4.4065e+00	1.7561e−01	−1.8454e+01	4.3903e+01	−2.8107e+00	2.8021e−02	−1.7723e+01	1.8970e+01
	1.03 1.00	0.97 0.96	0.95 0.94	0.94 0.94	0.93 0.93	0.88 0.81	0.67 0.22	0.05 0.01
^{137}La	$(np)^{137}$Ba	1.3820e+00	3.5	1.5	0.0100	0.01	4.8e−03	0
	−1.6690e+02	1.0611e+00	−1.1301e+02	2.9556e+02	−1.9391e+01	1.0534e+00	−1.1238e+02	−1.6621e+02
^{137}La	$(n\alpha)^{134}$Cs	5.4160e+00	3.5	4.0	0.0100	0.01	3.7e−02	0
	−6.2538e+01	6.9975e−01	−6.8205e+01	1.2559e+02	−6.3353e−01	−4.2044e−01	−5.9699e+01	−6.4009e+01
^{138}La	$(n\gamma)^{139}$La	8.7780e+00	5.0	3.5	0.0100	0.01	2.3e−04	
	1.9160e+01	2.0575e−02	−1.5817e+00	6.5697e−01	1.8930e−01	−1.2227e−01	−9.8985e−01	4.3174e+01
	1.00 0.99	0.98 0.97	0.95 0.93	0.89 0.87	0.84 0.81	0.62 0.47	0.34 0.14	0.05 0.01
^{138}La	$(np)^{138}$Ba	2.5200e+00	5.0	0.0	0.0100	0.01	2.0e−03	0
	5.2256e+01	−2.6713e−01	3.5486e+01	−8.8162e+01	6.7971e+00	−3.9076e−01	3.6514e+01	5.4654e+01
^{138}La	$(n\alpha)^{135}$Cs	6.7040e+00	5.0	3.5	0.0100	0.01	2.9e−03	0
	7.5098e+01	−3.2611e−01	3.9479e+01	−1.2710e+02	1.4510e+01	−1.1080e+00	4.3138e+01	7.4063e+01
^{139}La	$(n\gamma)^{140}$La	5.1610e+00	3.5	3.0	0.0100	0.01	1.7e−03	
	2.3428e+01	2.9372e−03	5.2328e−01	−9.9054e+00	2.2820e+00	−3.5293e−01	1.6531e+00	4.7256e+01
	1.00 1.00	0.99 1.00	0.99 0.98	0.98 0.97	0.96 0.95	0.89 0.86	0.79 0.42	0.12 0.03
^{139}La	$(n\alpha)^{136}$Cs	4.7540e+00	3.5	6.0	0.0100	0.01	4.8e−02	0
	−1.0310e+02	1.0038e+00	−9.8560e+01	1.9383e+02	−3.6279e+00	−3.6727e−01	−8.8333e+01	−1.0493e+02
^{140}La	$(n\gamma)^{141}$La	6.6890e+00	3.0	3.5	0.0100	0.01	8.2e−05	
	1.5463e+01	1.9677e−02	−2.9334e+00	4.1200e+00	3.1079e−01	−1.4839e−01	−2.8514e+00	3.9025e+01
	1.02 0.96	0.89 0.86	0.85 0.85	0.85 0.86	0.87 0.88	0.90 0.84	0.72 0.39	0.14 0.04
^{140}La	$(n\alpha)^{137}$Cs	7.8720e+00	3.0	3.5	0.0100	0.01	1.1e−03	0
	4.9441e+01	−2.4019e−01	2.5167e+01	−7.6157e+01	8.0666e+00	−5.3918e−01	2.5952e+01	4.7953e+01
^{141}La	$(n\gamma)^{142}$La	5.1660e+00	3.5	2.0	0.0100	0.01	1.1e−03	0
	5.3555e+00	8.3700e−02	−9.1576e+00	2.1544e+01	−1.2405e+00	−6.0884e−02	−8.9116e+00	2.9521e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{142}La	$(n\gamma)^{143}$La	6.2260e+00	2.0	3.5	0.0100	0.01	2.4e−05	0
	9.7745e+00	3.6374e−02	−4.8228e+00	1.3335e+01	−1.0528e+00	−4.3246e−02	−5.1895e+00	3.3000e+01
^{143}La	$(n\gamma)^{144}$La	4.7800e+00	3.5	3.0	0.0100	0.01	9.0e−04	0
	7.0565e+00	6.6251e−02	−7.5791e+00	1.7697e+01	−9.5710e−01	−9.2019e−02	−7.4817e+00	3.0885e+01
^{144}La	$(n\gamma)^{145}$La	6.1540e+00	3.0	1.5	0.0100	0.01	6.8e−05	0
	1.8439e+01	−3.2127e−02	2.1626e+00	−3.6075e+00	2.0936e−01	−1.2769e−01	1.4596e+00	4.2694e+01
^{145}La	$(n\gamma)^{146}$La	4.2460e+00	1.5	2.0	0.0100	0.01	1.6e−03	0
	2.8147e+01	−5.9503e−02	7.5716e+00	−2.0020e+01	1.4354e+00	−2.3201e−01	7.9479e+00	5.1619e+01
^{146}La	$(n\gamma)^{147}$La	6.1490e+00	2.0	1.5	0.0100	0.01	4.2e−04	0
	1.4517e+01	2.8307e−01	−2.3587e+01	2.6305e+01	−3.3987e−01	−1.4681e−01	−1.7255e+01	3.8436e+01
^{147}La	$(n\gamma)^{148}$La	3.9990e+00	1.5	2.0	0.0100	0.01	1.6e−03	0
	3.4453e+00	1.1379e−02	−2.9652e+00	1.7392e+01	−2.0035e+00	4.5447e−03	−4.5673e+00	2.6918e+01
^{148}La	$(n\gamma)^{149}$La	5.7860e+00	2.0	0.5	0.0100	0.01	5.8e−04	0
	2.9694e+01	−8.4212e−02	8.7020e+00	−2.2792e+01	1.7036e+00	−2.3397e−01	8.4985e+00	5.4306e+01
^{149}La	$(n\gamma)^{150}$La	4.1780e+00	0.5	2.0	0.0100	0.01	2.2e−03	0
	1.9407e+01	2.5930e−01	−1.9233e+01	1.5906e+01	2.0188e−01	−2.0221e−01	−1.2388e+01	4.2186e+01
^{150}La	$(n\gamma)^{151}$La	5.2030e+00	2.0	0.5	0.0100	0.01	9.9e−04	0
	2.6853e+01	1.1221e−01	−6.6321e+00	−4.2257e+00	9.8840e−01	−2.0571e−01	−2.3777e+00	5.1465e+01
^{151}La	$(n\gamma)^{152}$La	3.7220e+00	0.5	3.0	0.0100	0.01	1.8e−03	0
	1.0807e+01	3.1976e−01	−2.6070e+01	3.1635e+01	−8.6730e−01	−1.3718e−01	−1.9065e+01	3.3250e+01
^{152}La	$(n\gamma)^{153}$La	4.8390e+00	3.0	0.5	0.0100	0.01	8.1e−04	0
	2.4140e+01	1.1870e−01	−7.9993e+00	−6.4938e−01	8.3209e−01	−2.0305e−01	−3.9782e+00	4.9089e+01
^{153}La	$(n\gamma)^{154}$La	3.4300e+00	0.5	2.0	0.0100	0.01	2.0e−03	0
	8.2493e+00	3.2153e−01	−2.6841e+01	3.4654e+01	−1.1171e+00	−1.2148e−01	−2.0148e+01	3.1029e+01
^{154}La	$(n\gamma)^{155}$La	4.5650e+00	2.0	0.5	0.0100	0.01	7.8e−04	0
	1.5858e+01	2.2990e−01	−1.8492e+01	1.8656e+01	−2.5874e−01	−1.4589e−01	−1.3011e+01	4.0470e+01
^{155}La	$(n\gamma)^{156}$La	3.1580e+00	0.5	0.0	0.0100	0.01	2.0e−03	0
	3.9421e+00	3.4628e−01	−2.9854e+01	4.1853e+01	−1.5730e+00	−9.7374e−02	−2.3196e+01	2.8331e+01
^{156}La	$(n\gamma)^{157}$La	4.3560e+00	0.0	0.5	0.0100	0.01	1.9e−04	0
	−1.9395e+01	5.1312e−01	−4.9319e+01	8.8478e+01	−4.8860e+00	1.3311e−01	−4.2581e+01	3.6077e+00
^{157}La	$(n\gamma)^{158}$La	3.0480e+00	0.5	4.0	0.0100	0.01	1.9e−03	0
	1.8962e+00	3.5023e−01	−3.0610e+01	4.4492e+01	−1.8143e+00	−8.0790e−02	−2.4133e+01	2.4088e+01
^{158}La	$(n\gamma)^{159}$La	4.1030e+00	4.0	0.5	0.0100	0.01	7.5e−04	0
	1.9943e+01	1.1836e−01	−8.8261e+00	3.0672e+00	5.2177e−01	−1.8724e−01	−5.2726e+00	4.5143e+01
^{159}La	$(n\gamma)^{160}$La	2.4300e+00	0.5	3.0	0.0100	0.01	2.7e−03	0
	4.1389e+00	3.0301e−01	−2.6700e+01	3.5980e+01	−8.3352e−01	−1.7077e−01	−2.0874e+01	2.6583e+01
^{160}La	$(n\gamma)^{161}$La	3.4660e+00	3.0	0.5	0.0300	0.01	7.6e−04	0
	1.6062e+01	1.6180e−01	−1.3079e+01	1.0328e+01	2.4236e−01	−1.8118e−01	−8.9429e+00	4.1011e+01
^{161}La	$(n\gamma)^{162}$La	1.9980e+00	0.5	3.0	0.0100	0.01	2.7e−03	0
	−2.5978e+00	3.2613e−01	−2.9899e+01	4.5631e+01	−1.6403e+00	−1.1600e−01	−2.4438e+01	1.9846e+01
^{162}La	$(n\gamma)^{163}$La	3.1900e+00	3.0	0.5	0.0450	0.01	9.3e−04	0
	9.8358e+00	2.1744e−01	−1.8963e+01	2.2353e+01	−3.8694e−01	−1.5620e−01	−1.4401e+01	3.4785e+01
^{163}La	$(n\gamma)^{164}$La	1.8450e+00	0.5	4.0	0.0100	0.01	2.6e−03	0
	−8.6973e+00	3.6223e−01	−3.3974e+01	5.6003e+01	−2.4631e+00	−6.1817e−02	−2.8519e+01	1.3495e+01
^{164}La	$(n\gamma)^{165}$La	2.9750e+00	4.0	0.5	0.0550	0.01	9.7e−04	0
	1.0885e+01	1.8213e−01	−1.5790e+01	1.7478e+01	−2.1442e−01	−1.6434e−01	−1.1832e+01	3.6086e+01
^{165}La	$(n\gamma)^{166}$La	1.5980e+00	0.5	1.0	0.0100	0.01	3.0e−03	0
	−1.2948e+01	3.8512e−01	−3.6560e+01	6.2607e+01	−2.9092e+00	−4.1292e−02	−3.1115e+01	1.0343e+01
^{166}La	$(n\gamma)^{167}$La	2.8020e+00	1.0	2.5	0.0700	0.01	3.9e−04	0
	−1.2452e+01	4.0298e−01	−3.8787e+01	6.6113e+01	−3.2218e+00	5.7663e−03	−3.3174e+01	1.0551e+01
^{167}La	$(n\gamma)^{168}$La	1.5270e+00	2.5	3.0	0.0150	0.01	3.1e−03	0
	−2.5247e+00	2.2711e−01	−2.1358e+01	3.5075e+01	−1.4806e+00	−1.1339e−01	−1.7949e+01	2.1018e+01
^{168}La	$(n\gamma)^{169}$La	2.6640e+00	3.0	2.5	0.0900	0.01	1.0e−03	0
	5.1693e+00	2.3842e−01	−2.1461e+01	2.8705e+01	−8.2173e−01	−1.4135e−01	−1.6949e+01	2.9020e+01
^{169}La	$(n\gamma)^{170}$La	1.4580e+00	2.5	4.0	0.0150	0.01	3.1e−03	0
	−3.5000e+00	2.2075e−01	−2.0902e+01	3.5227e+01	−1.5289e+00	−1.1271e−01	−1.7720e+01	1.9791e+01
^{170}La	$(n\gamma)^{171}$La	2.3560e+00	4.0	2.5	0.1300	0.01	8.1e−04	0
	1.3932e+01	1.1801e−01	−9.7301e+00	6.5020e+00	3.9234e−01	−2.0346e−01	−6.6284e+00	3.8034e+01
^{171}La	$(n\gamma)^{172}$La	1.1730e+00	2.5	3.0	0.0300	0.01	3.1e−03	0
	−4.9358e+00	2.1474e−01	−2.0510e+01	3.5290e+01	−1.5138e+00	−1.1680e−01	−1.7538e+01	1.8607e+01
^{172}La	$(n\gamma)^{173}$La	2.3090e+00	3.0	2.5	0.2200	0.01	1.0e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	7.3486e+00	2.0763e−01	−1.8381e+01	2.1815e+01	−2.4984e−01	−1.8417e−01	−1.4102e+01	3.1200e+01
^{173}La	$(n\gamma)^{174}$La	1.2620e+00	2.5	4.0	0.0350	0.01	2.3e−03	0
	−2.9802e+00	1.8097e−01	−1.7369e+01	2.9800e+01	−1.2864e+00	−1.2074e−01	−1.4877e+01	2.0311e+01
^{136}Ce	$(n\gamma)^{137}$Ce	7.4810e+00	0.0	1.5	0.0100	0.01	1.1e−02	
	−7.3796e+00	2.0478e−01	−2.1355e+01	4.9461e+01	−2.3432e+00	−9.9441e−02	−2.0346e+01	1.4929e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.08 1.21	1.24 0.41	0.06 0.01
^{136}Ce	$(np)^{136}$La	3.1000e−01	0.0	1.0	0.0100	0.01	3.0e−02	0
	5.3627e+01	−3.0911e−01	7.9142e+01	−1.4829e+02	5.5601e+00	−3.5083e−01	8.9187e+01	5.2528e+01
^{136}Ce	$(n\alpha)^{133}$Ba	6.7100e+00	0.0	0.5	0.0100	0.01	3.6e−02	0
	2.5931e+01	−1.1048e+00	4.0444e+01	−7.3419e+01	1.0607e+01	−9.9142e−01	2.9704e+01	2.3885e+01
^{137}Ce	$(n\gamma)^{138}$Ce	9.7410e+00	1.5	0.0	0.0100	0.01	1.2e−03	
	−1.5505e+01	2.1744e−01	−2.3999e+01	6.3036e+01	−4.6767e+00	1.5748e−01	−2.4071e+01	9.5759e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.02 1.04	1.13 1.05	0.76 0.21	0.04 0.01
^{137}Ce	$(np)^{137}$La	2.0050e+00	1.5	3.5	0.0100	0.01	9.6e−04	0
	−2.1611e+01	2.1932e−01	−2.0541e+01	4.6518e+01	3.7134e−01	−3.2562e−01	−1.9260e+01	−2.2304e+01
^{137}Ce	$(n\alpha)^{134}$Ba	8.6970e+00	1.5	0.0	0.0100	0.01	5.3e−03	
	6.0737e+01	−3.4604e−01	3.6438e+01	−9.7253e+01	8.7240e+00	−5.3222e−01	3.6368e+01	6.0770e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.96	0.94 0.92	0.85 1.01	1.40 4.79	25.03 63.03
^{138}Ce	$(n\gamma)^{139}$Ce	7.4560e+00	0.0	1.5	0.0100	0.01	7.6e−03	
	5.4925e+00	1.3737e−01	−1.3381e+01	2.5993e+01	−3.1510e−01	−2.2834e−01	−1.1903e+01	2.7801e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.14	1.17 0.46	0.08 0.01
^{138}Ce	$(n\alpha)^{135}$Ba	5.9290e+00	0.0	1.5	0.0100	0.01	5.0e−02	0
	−4.8090e+01	6.2457e−01	−5.9308e+01	1.0334e+02	6.7371e−01	−4.8779e−01	−5.0844e+01	−5.0830e+01
^{139}Ce	$(n\gamma)^{140}$Ce	9.2010e+00	1.5	0.0	0.0100	0.01	9.7e−03	
	−1.9704e+01	2.8205e−01	−2.9741e+01	7.1438e+01	−4.6427e+00	1.1754e−01	−2.8677e+01	5.3773e+00
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.98	1.00 1.10	0.98 0.25	0.05 0.01
^{139}Ce	$(np)^{139}$La	1.0610e+00	1.5	3.5	0.0100	0.01	9.9e−03	0
	−2.3004e+02	8.3490e−01	−1.0451e+02	3.5663e+02	−2.9287e+01	1.9101e+00	−1.1814e+02	−2.3073e+02
^{139}Ce	$(n\alpha)^{136}$Ba	7.5810e+00	1.5	0.0	0.0100	0.01	2.3e−03	0
	4.9893e+01	−5.0466e−01	3.5279e+01	−9.0312e+01	9.7127e+00	−6.9944e−01	3.3283e+01	4.9925e+01
^{140}Ce	$(n\gamma)^{141}$Ce	5.4290e+00	0.0	3.5	0.0100	0.01	7.0e−03	
	1.9605e+01	4.7856e−02	−3.2996e+00	−3.4157e+00	2.6269e+00	−4.5460e−01	−1.4408e+00	4.1220e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.04	1.11 0.58	0.12 0.02
^{140}Ce	$(n\alpha)^{137}$Ba	5.2860e+00	0.0	1.5	0.0100	0.01	6.8e−02	0
	−5.5531e+01	7.2789e−01	−6.8812e+01	1.1475e+02	2.0817e+00	−7.1751e−01	−5.8259e+01	−5.8272e+01
^{141}Ce	$(n\gamma)^{142}$Ce	7.1690e+00	3.5	0.0	0.0300	0.01	5.8e−03	
	−1.5347e+01	2.3701e−01	−2.5348e+01	6.0891e+01	−3.8556e+00	6.9698e−02	−2.4572e+01	1.0428e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.97	0.81 0.22	0.04 0.01
^{141}Ce	$(n\alpha)^{138}$Ba	8.4680e+00	3.5	0.0	0.0300	0.01	5.2e−04	0
	2.3754e+01	−3.8436e−01	2.0247e+01	−4.0971e+01	4.1181e+00	−2.5138e−01	1.6665e+01	2.4479e+01
^{142}Ce	$(n\gamma)^{143}$Ce	5.1450e+00	0.0	1.5	0.0100	0.01	6.3e−03	
	−1.1181e+00	1.6124e−01	−1.6184e+01	3.3976e+01	−9.9035e−01	−1.8615e−01	−1.4833e+01	2.1191e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.06 1.22	1.27 0.52	0.09 0.01
^{142}Ce	$(n\alpha)^{139}$Ba	6.0230e+00	0.0	3.5	0.0100	0.01	9.2e−03	0
	−3.7962e+01	3.9605e−01	−3.9864e+01	7.4425e+01	6.3146e−01	−3.5049e−01	−3.5249e+01	−4.1395e+01
^{143}Ce	$(n\gamma)^{144}$Ce	6.8970e+00	1.5	0.0	0.0150	0.01	2.6e−03	
	−1.5326e+01	2.2706e−01	−2.4806e+01	5.9996e+01	−3.8209e+00	6.1490e−02	−2.4274e+01	9.7555e+00
	1.00 1.04	1.07 1.11	1.15 1.19	1.24 1.28	1.30 1.34	1.60 1.64	1.28 0.36	0.06 0.01
^{143}Ce	$(n\alpha)^{140}$Ba	7.3090e+00	1.5	0.0	0.0150	0.01	7.9e−04	0
	5.4681e+01	−3.8899e−01	3.3438e+01	−9.6335e+01	1.1115e+01	−8.3560e−01	3.3301e+01	5.4713e+01
^{144}Ce	$(n\gamma)^{145}$Ce	4.7300e+00	0.0	1.5	0.0100	0.01	8.3e−03	
	−1.7484e+00	1.8508e−01	−1.7939e+01	3.6340e+01	−1.2078e+00	−1.8431e−01	−1.6048e+01	2.0561e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.14 1.39	1.44 0.50	0.07 0.01
^{144}Ce	$(n\alpha)^{141}$Ba	4.9320e+00	0.0	1.5	0.0100	0.01	2.5e−02	0
	−8.7395e+01	7.5427e−01	−7.7909e+01	1.5900e+02	−2.9112e+00	−3.2024e−01	−7.0929e+01	−9.0136e+01
^{145}Ce	$(n\gamma)^{146}$Ce	6.6760e+00	1.5	0.0	0.0150	0.01	1.9e−03	0
	3.2546e+01	−8.0771e−02	9.9161e+00	−2.6923e+01	2.1092e+00	−2.8748e−01	1.0368e+01	5.7628e+01
^{146}Ce	$(n\gamma)^{147}$Ce	4.5480e+00	0.0	2.5	0.0100	0.01	5.1e−03	0
	1.2084e+01	1.0464e−01	−8.8177e+00	1.1333e+01	7.7017e−01	−3.1582e−01	−6.7065e+00	3.3988e+01
^{147}Ce	$(n\gamma)^{148}$Ce	6.3170e+00	2.5	0.0	0.0150	0.01	1.5e−03	0
	7.6196e+00	4.4879e−02	−5.5765e+00	1.5653e+01	−1.0236e+00	−9.9830e−02	−5.9297e+00	3.3107e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{148}Ce	$(n\gamma)^{149}$Ce	4.4440e+00	0.0	1.5	0.0100	0.01	5.7e−03	0
	4.7264e+00	1.7984e−01	−1.6190e+01	2.6917e+01	−3.5908e−01	−2.4667e−01	−1.3376e+01	2.7036e+01
^{149}Ce	$(n\gamma)^{150}$Ce	6.2670e+00	1.5	0.0	0.0150	0.01	2.8e−03	0
	3.2312e+01	3.0469e−02	1.4518e+00	−1.8580e+01	2.0097e+00	−3.0504e−01	4.6678e+00	5.7394e+01
^{150}Ce	$(n\gamma)^{151}$Ce	4.3250e+00	0.0	1.5	0.0100	0.01	5.3e−03	0
	7.9905e+00	1.8515e−01	−1.6207e+01	2.2257e+01	5.6671e−01	−3.3937e−01	−1.2716e+01	3.0300e+01
^{151}Ce	$(n\gamma)^{152}$Ce	5.8020e+00	1.5	0.0	0.0250	0.01	3.0e−03	0
	2.4182e+01	3.8742e−02	−6.6867e−01	−7.8598e+00	8.7828e−01	−2.2293e−01	1.5871e+00	4.9265e+01
^{152}Ce	$(n\gamma)^{153}$Ce	3.8430e+00	0.0	2.5	0.0100	0.01	6.0e−03	0
	2.9842e+01	−2.1554e−01	2.0299e+01	−3.7386e+01	2.5124e+00	−3.4289e−01	1.7473e+01	5.1746e+01
^{153}Ce	$(n\gamma)^{154}$Ce	5.4170e+00	2.5	0.0	0.0450	0.01	2.8e−03	0
	1.8436e+01	6.9681e−02	−4.5635e+00	1.4803e+00	3.4610e−01	−1.9912e−01	−2.3961e+00	4.3924e+01
^{154}Ce	$(n\gamma)^{155}$Ce	3.5490e+00	0.0	2.5	0.0100	0.01	6.1e−03	0
	3.2397e+01	−2.1943e−01	2.1223e+01	−4.1856e+01	2.9745e+00	−3.8142e−01	1.8778e+01	5.4302e+01
^{155}Ce	$(n\gamma)^{156}$Ce	5.0930e+00	2.5	0.0	0.0650	0.01	2.8e−03	0
	1.3724e+01	9.5681e−02	−7.5318e+00	9.1977e+00	−2.6581e−01	−1.6151e−01	−5.3960e+00	3.9212e+01
^{156}Ce	$(n\gamma)^{157}$Ce	3.2210e+00	0.0	0.5	0.0100	0.01	4.2e−03	0
	3.7435e+00	−1.3339e−03	−1.9399e+00	1.2196e+01	−7.1117e−01	−1.6363e−01	−3.4241e+00	2.6747e+01
^{157}Ce	$(n\gamma)^{158}$Ce	4.8090e+00	0.5	0.0	0.1050	0.01	3.4e−03	0
	1.3376e+01	2.5579e−01	−1.9826e+01	2.2094e+01	−5.6082e−01	−1.6228e−01	−1.3806e+01	3.7766e+01
^{158}Ce	$(n\gamma)^{159}$Ce	3.0970e+00	0.0	3.5	0.0150	0.01	6.4e−03	0
	2.0465e+01	−1.6637e−01	1.4682e+01	−2.3282e+01	1.4781e+00	−2.8632e−01	1.1836e+01	4.2081e+01
^{159}Ce	$(n\gamma)^{160}$Ce	4.4560e+00	3.5	0.0	0.1450	0.01	3.4e−03	0
	7.7907e−02	1.5130e−01	−1.4663e+01	3.0251e+01	−1.9297e+00	−5.9187e−02	−1.3137e+01	2.5854e+01
^{160}Ce	$(n\gamma)^{161}$Ce	2.5970e+00	0.0	2.5	0.0250	0.01	7.0e−03	0
	3.3137e+01	−2.1411e−01	2.1128e+01	−4.5255e+01	3.5409e+00	−4.4118e−01	1.9217e+01	5.5041e+01
^{161}Ce	$(n\gamma)^{162}$Ce	3.8560e+00	2.5	0.0	0.3450	0.01	3.5e−03	0
	−3.2533e+00	1.9018e−01	−1.8054e+01	3.6506e+01	−2.4141e+00	−2.6075e−02	−1.5939e+01	2.2235e+01
^{162}Ce	$(n\gamma)^{163}$Ce	2.0960e+00	0.0	3.5	0.0550	0.01	9.2e−03	0
	4.1661e+01	−2.9125e−01	2.9425e+01	−6.3842e+01	4.6941e+00	−5.1028e−01	2.7119e+01	6.3278e+01
^{163}Ce	$(n\gamma)^{164}$Ce	3.6540e+00	3.5	0.0	0.6200	0.01	3.7e−03	0
	−2.4098e+00	1.8276e−01	−1.7561e+01	3.4222e+01	−2.0740e+00	−5.9151e−02	−1.5462e+01	2.3366e+01
^{164}Ce	$(n\gamma)^{165}$Ce	1.8820e+00	0.0	4.5	0.0700	0.01	1.2e−02	0
	4.5353e+01	−3.3310e−01	3.3830e+01	−7.2994e+01	5.2566e+00	−5.5027e−01	3.1203e+01	6.6747e+01
^{165}Ce	$(n\gamma)^{166}$Ce	3.4160e+00	4.5	0.0	0.7900	0.01	4.2e−03	0
	−9.6037e+00	2.0683e−01	−2.0867e+01	4.4970e+01	−3.0030e+00	4.6226e−05	−1.9220e+01	1.6396e+01
^{166}Ce	$(n\gamma)^{167}$Ce	1.6900e+00	0.0	0.5	0.0950	0.01	6.8e−03	0
	−1.3416e+01	1.2429e−01	−1.4619e+01	3.9955e+01	−2.5705e+00	−7.3891e−02	−1.5162e+01	9.5872e+00
^{167}Ce	$(n\gamma)^{168}$Ce	3.2460e+00	0.5	0.0	1.0150	0.01	4.8e−03	0
	−6.3144e+00	3.2389e−01	−2.9437e+01	5.0452e+01	−2.8574e+00	−2.2784e−02	−2.4505e+01	1.8076e+01
^{168}Ce	$(n\gamma)^{169}$Ce	1.4720e+00	0.0	1.5	0.1350	0.01	7.8e−03	0
	−1.3708e+01	1.3999e−01	−1.5790e+01	4.1000e+01	−2.5315e+00	−8.7124e−02	−1.5930e+01	8.6021e+00
^{169}Ce	$(n\gamma)^{170}$Ce	3.0980e+00	1.5	0.0	1.2500	0.01	4.7e−03	0
	−5.4940e+00	2.5950e−01	−2.4106e+01	4.3472e+01	−2.5669e+00	−3.9409e−02	−2.0518e+01	1.9589e+01
^{170}Ce	$(n\gamma)^{171}$Ce	1.5150e+00	0.0	3.5	0.1550	0.01	8.2e−03	0
	−6.3691e+00	5.6818e−02	−7.3135e+00	2.4337e+01	−1.7690e+00	−1.1396e−01	−8.2473e+00	1.5248e+01
^{171}Ce	$(n\gamma)^{172}$Ce	2.8160e+00	3.5	0.0	1.4350	0.01	4.7e−03	0
	−2.4184e+01	2.8787e−01	−2.9701e+01	6.9114e+01	−5.0662e+00	1.3558e−01	−2.8127e+01	1.5923e+00
^{172}Ce	$(n\gamma)^{173}$Ce	1.1720e+00	0.0	5.5	0.2900	0.01	7.6e−03	0
	−5.3584e+00	−5.8063e−02	2.5083e+00	1.2531e+01	−1.6184e+00	−9.5532e−02	−8.4387e−01	1.5854e+01
^{173}Ce	$(n\gamma)^{174}$Ce	2.7160e+00	5.5	0.0	1.9000	0.01	4.7e−03	0
	−1.9469e+01	2.4183e−01	−2.5328e+01	5.8291e+01	−4.0190e+00	5.4400e−02	−2.4073e+01	6.7132e+00
^{174}Ce	$(n\gamma)^{175}$Ce	1.2160e+00	0.0	4.5	0.3550	0.01	5.5e−03	0
	−1.4774e+01	8.5443e−02	−9.8908e+00	3.4844e+01	−2.9933e+00	−1.5392e−02	−1.1009e+01	6.6209e+00
^{175}Ce	$(n\gamma)^{176}$Ce	2.4670e+00	4.5	0.0	2.0600	0.01	4.9e−03	0
	−2.6397e+01	2.4899e−01	−2.6754e+01	6.6799e+01	−5.0206e+00	1.3377e−01	−2.6218e+01	−3.9756e−01
^{138}Pr	$(np)^{138}$Ce	5.2200e+00	1.0	0.0	0.0100	0.01	4.1e−03	
	9.9487e+01	−5.0209e−01	5.8117e+01	−1.5345e+02	1.2080e+01	−7.8457e−01	5.8651e+01	1.0059e+02
	1.00 1.00	1.00 1.00	1.00 0.99	0.97 0.93	0.88 0.81	0.36 0.25	0.24 0.41	0.80 0.82
^{138}Pr	$(n\alpha)^{135}$La	9.1660e+00	1.0	2.5	0.0100	0.01	6.3e−03	0
	6.8580e+01	−4.0409e−01	4.2016e+01	−1.0957e+02	9.3381e+00	−5.5428e−01	4.1636e+01	6.6534e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{139}Pr	(np)^{139}Ce	2.9120e+00	2.5	1.5	0.0100	0.01	3.3e−03	
	4.9026e+01	−1.2091e−01	1.9262e+01	−6.6586e+01	8.2833e+00	−7.4892e−01	2.2344e+01	4.9431e+01
	1.00 1.00	0.99 0.98	0.96 0.94	0.93 0.92	0.91 0.91	1.10 1.48	1.99 5.54	7.04 3.58
^{139}Pr	(nα)^{136}La	6.8400e+00	2.5	1.0	0.0100	0.01	9.1e−03	0
	−2.5402e+00	1.9172e−01	−1.8077e+01	1.8822e+01	3.7586e+00	−4.6313e−01	−1.3547e+01	−3.2006e+00
^{140}Pr	(np)^{140}Ce	4.1700e+00	1.0	0.0	0.0100	0.01	1.3e−02	
	4.9796e+01	−2.7255e−01	2.9909e+01	−7.1707e+01	5.0119e+00	−2.3946e−01	2.8602e+01	5.0895e+01
	0.91 0.68	0.57 0.51	0.47 0.44	0.41 0.39	0.37 0.36	0.25 0.18	0.15 0.25	0.69 1.05
^{140}Pr	(nα)^{137}La	8.0730e+00	1.0	3.5	0.0100	0.01	8.1e−03	0
	8.1410e+01	−4.6968e−01	4.9595e+01	−1.3681e+02	1.2728e+01	−8.2825e−01	5.0285e+01	7.9076e+01
^{141}Pr	(nγ)^{142}Pr	5.8430e+00	2.5	2.0	0.0100	0.01	4.2e−03	
	1.1465e+01	9.1903e−02	−8.8832e+00	1.4581e+01	3.0435e−01	−2.3395e−01	−7.6122e+00	3.5342e+01
	1.00 1.00	1.00 0.99	0.99 0.99	0.99 0.99	0.99 0.99	1.05 1.12	1.06 0.45	0.10 0.02
^{141}Pr	(np)^{141}Ce	2.0100e−01	2.5	3.5	0.0100	0.01	7.0e−04	0
	7.8363e+01	9.0681e−01	7.6644e−02	−9.9902e+01	6.1684e+00	−4.0599e−01	4.6744e+01	7.8076e+01
^{141}Pr	(nα)^{138}La	6.1500e+00	2.5	5.0	0.0100	0.01	4.1e−02	0
	5.4280e+01	−1.4705e+00	6.3920e+01	−1.3453e+02	1.6847e+01	−1.4712e+00	5.1952e+01	5.2320e+01
^{142}Pr	(nγ)^{143}Pr	7.3520e+00	2.0	3.5	0.0100	0.01	1.1e−04	
	1.1367e+01	1.1908e−01	−1.1116e+01	1.8535e+01	−6.6486e−01	−9.6267e−02	−9.3340e+00	3.4592e+01
	0.96 1.11	1.13 1.11	1.08 1.05	1.03 1.01	1.00 0.99	0.95 0.85	0.69 0.32	0.10 0.02
^{142}Pr	(np)^{142}Ce	1.5280e+00	2.0	0.0	0.0100	0.01	6.4e−03	0
	−1.0593e+02	6.3847e−01	−6.9975e+01	1.8151e+02	−1.0154e+01	5.1509e−01	−7.0447e+01	−1.0432e+02
^{142}Pr	(nα)^{139}La	9.0850e+00	2.0	3.5	0.0100	0.01	2.5e−03	
	4.3964e+01	−3.9290e−01	2.7663e+01	−6.7842e+01	5.7487e+00	−2.9346e−01	2.5787e+01	4.2140e+01
	0.70 0.78	0.77 0.75	0.71 0.69	0.67 0.65	0.64 0.63	0.62 0.68	0.89 2.54	9.75 28.87
^{143}Pr	(nγ)^{144}Pr	5.7540e+00	3.5	0.0	0.0100	0.01	7.1e−04	
	−2.5692e+00	1.4252e−01	−1.5704e+01	3.8386e+01	−2.5073e+00	8.9216e−03	−1.5453e+01	2.3206e+01
	1.00 0.99	0.97 0.95	0.94 0.93	0.92 0.92	0.92 0.91	0.89 0.79	0.59 0.20	0.04 0.01
^{143}Pr	(nα)^{140}La	6.8950e+00	3.5	3.0	0.0100	0.01	4.8e−03	0
	4.4525e+01	−1.3804e−01	1.6958e+01	−6.8020e+01	1.0022e+01	−8.5715e−01	2.0305e+01	4.3304e+01
^{144}Pr	(nγ)^{145}Pr	6.9480e+00	0.0	3.5	0.0100	0.01	4.4e−04	
	1.8117e+01	1.8591e−02	−1.3102e+00	2.0293e+00	−2.5744e−01	−9.7552e−02	−9.1312e−01	3.9733e+01
	1.00 1.21	1.39 1.46	1.49 1.52	1.55 1.59	1.61 1.64	1.58 1.21	0.80 0.26	0.06 0.01
^{144}Pr	(np)^{144}Ce	4.6400e−01	0.0	0.0	0.0100	0.01	4.5e−03	0
	7.1999e+01	−1.4856e+00	1.5676e+02	−2.5152e+02	1.1278e+01	−4.5914e−01	1.3781e+02	7.1999e+01
^{144}Pr	(nα)^{141}La	7.8300e+00	0.0	3.5	0.0100	0.01	1.9e−03	0
	1.1227e+02	−1.4952e+00	9.7680e+01	−2.2085e+02	1.8626e+01	−1.2407e+00	8.7901e+01	1.0884e+02
^{145}Pr	(nγ)^{146}Pr	5.1740e+00	3.5	2.0	0.0100	0.01	6.3e−04	
	3.6034e+00	8.2963e−02	−9.7749e+00	2.5413e+01	−1.7542e+00	−3.8419e−02	−1.0003e+01	2.7769e+01
	1.00 0.99	0.98 0.96	0.94 0.93	0.91 0.89	0.88 0.87	0.73 0.58	0.40 0.12	0.02 0.00
^{145}Pr	(nα)^{142}La	6.0470e+00	3.5	2.0	0.0100	0.01	1.9e−02	0
	4.6088e+01	−7.5638e−01	3.7398e+01	−9.8064e+01	1.3988e+01	−1.2387e+00	3.3848e+01	4.5203e+01
^{146}Pr	(nγ)^{147}Pr	6.8030e+00	2.0	1.5	0.0100	0.01	1.4e−03	0
	1.4833e+01	−1.1465e−01	7.4355e+00	−3.0657e+00	−7.4779e−01	−2.2755e−02	3.9258e+00	3.8751e+01
^{147}Pr	(nγ)^{148}Pr	5.0870e+00	1.5	1.0	0.0100	0.01	1.3e−03	0
	1.3079e+01	−4.2816e−03	−8.2325e−01	5.3722e+00	−3.3536e−01	−1.3516e−01	−1.6315e+00	3.7063e+01
^{148}Pr	(nγ)^{149}Pr	6.5740e+00	1.0	2.5	0.0100	0.01	9.0e−04	0
	4.0128e+01	−1.6114e−01	1.6772e+01	−4.1023e+01	2.9370e+00	−3.1046e−01	1.6132e+01	6.3130e+01
^{149}Pr	(nγ)^{150}Pr	5.0870e+00	2.5	1.0	0.0100	0.01	1.9e−03	0
	2.7480e+01	−2.3950e−02	4.0235e+00	−1.4419e+01	1.1358e+00	−2.1843e−01	4.9085e+00	5.1869e+01
^{150}Pr	(nγ)^{151}Pr	6.8550e+00	1.0	1.5	0.0100	0.01	9.9e−04	0
	4.1620e+01	−1.3953e−01	1.5202e+01	−4.1199e+01	3.2806e+00	−3.4618e−01	1.5283e+01	6.5028e+01
^{151}Pr	(nγ)^{152}Pr	4.9120e+00	1.5	4.0	0.0100	0.01	2.6e−03	0
	3.1666e+01	4.0504e−02	3.3083e−01	−1.6125e+01	1.7717e+00	−2.8021e−01	3.5915e+00	5.4551e+01
^{152}Pr	(nγ)^{153}Pr	5.9370e+00	4.0	1.5	0.0100	0.01	7.6e−04	0
	2.9973e+01	−2.3756e−02	4.2319e+00	−1.7495e+01	1.4087e+00	−2.1932e−01	5.4659e+00	5.4480e+01
^{153}Pr	(nγ)^{154}Pr	4.4040e+00	1.5	3.0	0.0100	0.01	2.5e−03	0
	2.8068e+01	9.9544e−02	−4.9897e+00	−7.6640e+00	1.4076e+00	−2.6663e−01	−7.4730e−01	5.1205e+01
^{154}Pr	(nγ)^{155}Pr	5.4920e+00	3.0	1.5	0.0100	0.01	1.1e−03	0
	2.9380e+01	5.0919e−02	−1.5419e+00	−1.1717e+01	1.3865e+00	−2.3295e−01	1.5193e+00	5.3636e+01
^{155}Pr	(nγ)^{156}Pr	4.0540e+00	1.5	1.0	0.0100	0.01	2.2e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	2.3352e+01	1.4216e−01	−9.3303e+00	1.3979e+00	8.0132e−01	−2.3037e−01	−4.7241e+00	4.7336e+01
^{156}Pr	$(n\gamma)^{157}$Pr	5.1490e+00	1.0	1.5	0.0100	0.01	9.0e−04	0
	1.4585e+01	2.9530e−01	−2.3540e+01	2.6487e+01	−7.3449e−01	−1.1981e−01	−1.6737e+01	3.7993e+01
^{157}Pr	$(n\gamma)^{158}$Pr	3.7190e+00	1.5	1.0	0.0100	0.01	2.2e−03	0
	1.8936e+01	1.8434e−01	−1.3634e+01	1.0061e+01	2.8706e−01	−2.0239e−01	−8.6405e+00	4.2920e+01
^{158}Pr	$(n\gamma)^{159}$Pr	4.9630e+00	1.0	1.5	0.0100	0.01	5.9e−04	0
	6.1068e+00	3.6727e−01	−3.1333e+01	4.3076e+01	−1.7010e+00	−6.9999e−02	−2.4093e+01	2.9515e+01
^{159}Pr	$(n\gamma)^{160}$Pr	3.4730e+00	1.5	2.0	0.0100	0.01	2.4e−03	0
	1.7340e+01	1.9841e−01	−1.5073e+01	1.2545e+01	2.3518e−01	−2.0877e−01	−9.9116e+00	4.0813e+01
^{160}Pr	$(n\gamma)^{161}$Pr	4.4890e+00	2.0	1.5	0.0100	0.01	7.6e−04	0
	1.7875e+01	2.1044e−01	−1.6358e+01	1.4360e+01	−5.0131e−02	−1.5966e−01	−1.1009e+01	4.1795e+01
^{161}Pr	$(n\gamma)^{162}$Pr	3.0780e+00	1.5	1.0	0.0100	0.01	2.2e−03	0
	1.2752e+01	2.2817e−01	−1.8578e+01	2.0053e+01	−1.7947e−01	−1.8593e−01	−1.3328e+01	3.6736e+01
^{162}Pr	$(n\gamma)^{163}$Pr	4.0100e+00	1.0	1.5	0.0100	0.01	5.2e−04	0
	8.8369e+00	3.1175e−01	−2.6251e+01	3.3313e+01	−1.1596e+00	−9.7639e−02	−1.9739e+01	3.2246e+01
^{163}Pr	$(n\gamma)^{164}$Pr	2.4600e+00	1.5	4.0	0.0100	0.01	2.8e−03	0
	9.1006e+00	2.3410e−01	−1.9812e+01	2.3958e+01	−3.5954e−01	−1.8771e−01	−1.4846e+01	3.1986e+01
^{164}Pr	$(n\gamma)^{165}$Pr	3.7310e+00	4.0	1.5	0.0200	0.01	1.0e−03	0
	1.4234e+01	1.9160e−01	−1.6001e+01	1.5678e+01	3.7514e−02	−1.8292e−01	−1.1507e+01	3.8742e+01
^{165}Pr	$(n\gamma)^{166}$Pr	2.3080e+00	1.5	5.0	0.0100	0.01	3.0e−03	0
	3.7017e+00	2.5637e−01	−2.2597e+01	3.2402e+01	−1.1434e+00	−1.3376e−01	−1.7867e+01	2.6387e+01
^{166}Pr	$(n\gamma)^{167}$Pr	3.4390e+00	5.0	1.5	0.0250	0.01	1.1e−03	0
	1.4801e+01	1.5032e−01	−1.2440e+01	1.1112e+01	9.3276e−02	−1.8055e−01	−8.7818e+00	3.9510e+01
^{167}Pr	$(n\gamma)^{168}$Pr	2.0840e+00	1.5	1.0	0.0100	0.01	3.2e−03	0
	−1.1402e+00	2.8229e−01	−2.5664e+01	4.0318e+01	−1.7496e+00	−9.6451e−02	−2.1001e+01	2.2844e+01
^{168}Pr	$(n\gamma)^{169}$Pr	3.2560e+00	1.0	2.5	0.0300	0.01	4.8e−04	0
	−1.1571e+01	4.2870e−01	−4.0402e+01	6.8283e+01	−3.4535e+00	2.2306e−02	−3.4140e+01	1.1432e+01
^{169}Pr	$(n\gamma)^{170}$Pr	1.9240e+00	2.5	1.0	0.0100	0.01	3.2e−03	0
	−1.2980e+00	2.4070e−01	−2.2291e+01	3.6510e+01	−1.6891e+00	−9.6583e−02	−1.8574e+01	2.3092e+01
^{170}Pr	$(n\gamma)^{171}$Pr	3.1080e+00	1.0	0.5	0.0350	0.01	4.3e−04	0
	−1.3163e+01	4.3123e−01	−4.1023e+01	7.0300e+01	−3.5783e+00	2.5456e−02	−3.4924e+01	1.0940e+01
^{171}Pr	$(n\gamma)^{172}$Pr	1.8510e+00	0.5	2.0	0.0100	0.01	2.5e−03	0
	−1.5616e+01	4.2075e−01	−3.9919e+01	7.0221e+01	−3.6355e+00	9.7031e−03	−3.4146e+01	7.1649e+00
^{172}Pr	$(n\gamma)^{173}$Pr	3.0200e+00	2.0	1.5	0.0400	0.01	6.8e−04	0
	−1.7454e+00	3.3309e−01	−3.0630e+01	4.6694e+01	−1.9518e+00	−7.7374e−02	−2.5050e+01	2.2175e+01
^{173}Pr	$(n\gamma)^{174}$Pr	1.6010e+00	1.5	6.0	0.0100	0.01	3.5e−03	0
	−5.6268e+00	2.8967e−01	−2.7011e+01	4.4802e+01	−1.9860e+00	−9.6890e−02	−2.2644e+01	1.6892e+01
^{174}Pr	$(n\gamma)^{175}$Pr	2.7260e+00	6.0	1.5	0.0800	0.01	9.8e−04	0
	1.3758e+01	1.2766e−01	−1.0676e+01	8.4195e+00	3.2403e−01	−2.0851e−01	−7.4787e+00	3.8634e+01
^{175}Pr	$(n\gamma)^{176}$Pr	1.6220e+00	1.5	5.0	0.0150	0.01	2.4e−03	0
	−3.6331e+00	2.4749e−01	−2.3118e+01	3.8412e+01	−1.8306e+00	−8.6909e−02	−1.9400e+01	1.9052e+01
^{176}Pr	$(n\gamma)^{177}$Pr	2.5020e+00	5.0	1.5	0.1100	0.01	5.7e−04	0
	1.6151e+01	6.7249e−02	−5.0763e+00	−3.8838e−01	5.9567e−01	−2.0952e−01	−2.8450e+00	4.0859e+01
^{177}Pr	$(n\gamma)^{178}$Pr	1.1250e+00	1.5	0.0	0.0300	0.01	3.4e−03	0
	−8.1422e+00	2.4724e−01	−2.3541e+01	4.0891e+01	−1.7566e+00	−1.1436e−01	−2.0139e+01	1.6941e+01
^{140}Nd	$(np)^{140}$Pr	1.0050e+00	0.0	1.0	0.0100	0.01	9.5e−03	0
	−2.1357e+02	6.3217e−01	−8.5168e+01	3.1584e+02	−2.3898e+01	1.2901e+00	−1.0094e+02	−2.1467e+02
^{140}Nd	$(n\alpha)^{137}$Ce	7.0740e+00	0.0	1.5	0.0100	0.01	4.1e−02	0
	3.3519e+01	−2.1030e−01	9.5696e+00	−5.1466e+01	1.1105e+01	−1.1032e+00	1.2446e+01	3.0778e+01
^{141}Nd	$(np)^{141}$Pr	2.6050e+00	1.5	2.5	0.0100	0.01	9.4e−03	
	−5.4011e+01	5.1354e−01	−5.0363e+01	1.1868e+02	−7.1818e+00	3.8774e−01	−4.7534e+01	−5.4417e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.02	1.33 2.34	3.08 3.93	6.56 10.03
^{141}Nd	$(n\alpha)^{138}$Ce	9.0170e+00	1.5	0.0	0.0100	0.01	4.8e−03	0
	3.2758e+01	−1.5025e−01	1.7552e+01	−4.6906e+01	4.3956e+00	−2.0819e−01	1.7530e+01	3.2791e+01
^{142}Nd	$(n\gamma)^{143}$Nd	6.1240e+00	0.0	3.5	0.0100	0.01	9.9e−03	
	1.6170e+01	8.0644e−02	−6.7019e+00	5.4195e+00	1.8880e+00	−4.1429e−01	−4.7654e+00	3.7786e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.04	1.13 0.51	0.09 0.01
^{142}Nd	$(n\alpha)^{139}$Ce	6.6450e+00	0.0	1.5	0.0100	0.01	1.8e−02	0
	6.8970e+01	−1.6670e−01	2.4919e+01	−1.0942e+02	1.6625e+01	−1.4960e+00	3.1762e+01	6.6229e+01
^{143}Nd	$(n\gamma)^{144}$Nd	7.8170e+00	3.5	0.0	0.0100	0.01	4.9e−03	
	−1.6950e+01	2.3742e−01	−2.5880e+01	6.4925e+01	−4.4763e+00	1.2304e−01	−2.5543e+01	8.8252e+00

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.96	0.71 0.17	0.03 0.01
^{143}Nd	(nα)^{140}Ce	9.7220e+00	3.5	0.0	0.0100	0.01	1.9e−03	0
	4.2466e+00	4.3891e−02	−2.9831e+00	8.4445e+00	−5.7938e−01	1.3283e−01	−3.1685e+00	4.9716e+00
^{144}Nd	(nγ)^{145}Nd	5.7560e+00	0.0	3.5	0.0100	0.01	8.9e−03	
	−1.0966e+01	2.3053e−01	−2.3684e+01	5.3972e+01	−2.6547e+00	−8.0778e−02	−2.2330e+01	1.0650e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.07 1.22	1.23 0.39	0.06 0.01
^{144}Nd	(nα)^{141}Ce	7.3340e+00	0.0	3.5	0.0100	0.01	4.2e−03	0
	2.7213e+00	1.2545e−01	−1.0936e+01	6.9974e+00	4.1015e+00	−4.7733e−01	−7.5980e+00	−7.1282e−01
^{145}Nd	(nγ)^{146}Nd	7.5650e+00	3.5	0.0	0.0100	0.01	3.6e−03	
	−1.9277e+01	2.6664e−01	−2.8923e+01	7.0480e+01	−4.7734e+00	1.2639e−01	−2.8276e+01	6.4979e+00
	1.00 0.99	0.97 0.93	0.91 0.88	0.86 0.85	0.84 0.82	0.78 0.74	0.55 0.14	0.02 0.00
^{145}Nd	(nα)^{142}Ce	8.7470e+00	3.5	0.0	0.0100	0.01	3.9e−03	0
	6.5416e+01	−2.9938e−01	3.6669e+01	−1.0521e+02	1.0466e+01	−7.6583e−01	3.7819e+01	6.6140e+01
^{146}Nd	(nγ)^{147}Nd	5.2920e+00	0.0	2.5	0.0100	0.01	5.7e−03	
	−2.6717e+00	1.6845e−01	−1.6902e+01	3.8024e+01	−1.7414e+00	−1.3499e−01	−1.5736e+01	1.9232e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.10 1.23	1.14 0.36	0.05 0.01
^{146}Nd	(nα)^{143}Ce	6.3270e+00	0.0	1.5	0.0100	0.01	8.1e−03	0
	9.2245e+00	1.0394e−01	−8.5248e+00	−7.8341e+00	6.9105e+00	−7.5659e−01	−3.8593e+00	6.4831e+00
^{147}Nd	(nγ)^{148}Nd	7.3330e+00	2.5	0.0	0.0100	0.01	2.9e−03	
	−7.8250e+00	1.8978e−01	−2.0589e+01	4.8785e+01	−3.0779e+00	1.0584e−02	−1.9995e+01	1.7662e+01
	1.00 0.99	0.97 0.97	0.96 0.96	0.96 0.95	0.96 0.97	1.03 1.00	0.77 0.21	0.03 0.00
^{147}Nd	(nα)^{144}Ce	7.9320e+00	2.5	0.0	0.0100	0.01	3.9e−03	0
	7.9384e+01	−3.3817e−01	4.2822e+01	−1.3038e+02	1.3406e+01	−9.4477e−01	4.5360e+01	7.9820e+01
^{148}Nd	(nγ)^{149}Nd	5.0390e+00	0.0	2.5	0.0100	0.01	5.9e−03	
	1.0593e+01	1.0333e−01	−9.1089e+00	1.4993e+01	2.5327e−01	−2.8197e−01	−7.4499e+00	3.2497e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.01	1.02 1.03	1.18 1.34	1.28 0.46	0.06 0.01
^{148}Nd	(nα)^{145}Ce	5.3290e+00	0.0	1.5	0.0100	0.01	2.3e−02	0
	−6.4035e+01	6.1025e−01	−6.2132e+01	1.1874e+02	−2.9131e−01	−4.3807e−01	−5.5239e+01	−6.6777e+01
^{149}Nd	(nγ)^{150}Nd	7.3800e+00	2.5	0.0	0.0100	0.01	3.8e−03	
	2.1913e+01	4.8641e−02	−3.6539e+00	−1.7117e+00	1.3393e+00	−3.0523e−01	−1.9343e+00	4.7400e+01
	1.00 1.00	1.00 0.98	0.95 0.91	0.87 0.84	0.81 0.78	0.68 0.66	0.56 0.22	0.04 0.01
^{149}Nd	(nα)^{146}Ce	6.9660e+00	2.5	0.0	0.0100	0.01	3.4e−03	0
	1.1841e+02	−4.4456e−01	5.8946e+01	−1.9744e+02	2.2047e+01	−1.7557e+00	6.5690e+01	1.1884e+02
^{150}Nd	(nγ)^{151}Nd	5.3350e+00	0.0	1.5	0.0100	0.01	5.2e−03	
	1.7263e+01	9.5606e−02	−7.2770e+00	5.5220e+00	1.3560e+00	−3.7148e−01	−4.7919e+00	3.9572e+01
	1.00 1.00	1.01 1.02	1.04 1.06	1.09 1.12	1.15 1.18	1.54 1.73	1.67 0.69	0.09 0.01
^{150}Nd	(nα)^{147}Ce	4.1340e+00	0.0	2.5	0.0100	0.01	3.1e−02	0
	−1.8436e+02	1.2164e+00	−1.3367e+02	3.1111e+02	−1.2558e+01	1.5330e−01	−1.2798e+02	−1.8751e+02
^{151}Nd	(nγ)^{152}Nd	7.2720e+00	1.5	0.0	0.0100	0.01	2.9e−03	
	5.0150e+00	1.2039e−01	−1.2758e+01	2.5526e+01	−7.1520e−01	−1.8265e−01	−1.1820e+01	3.0097e+01
	1.00 1.02	1.04 1.06	1.08 1.12	1.15 1.18	1.21 1.24	1.45 1.44	1.23 0.42	0.07 0.01
^{151}Nd	(nα)^{148}Ce	5.1150e+00	1.5	0.0	0.0100	0.01	4.3e−02	0
	−6.1477e+01	8.5577e−01	−7.5563e+01	1.2233e+02	2.0522e+00	−6.6076e−01	−6.3508e+01	−6.1447e+01
^{152}Nd	(nγ)^{153}Nd	4.9470e+00	0.0	0.5	0.0100	0.01	4.8e−03	
	1.9123e+01	1.0950e−01	−8.1998e+00	2.9314e+00	2.0983e+00	−4.4781e−01	−4.9861e+00	4.2126e+01
	1.00 1.02	1.04 1.08	1.13 1.18	1.24 1.30	1.36 1.41	1.82 1.95	1.81 0.76	0.09 0.01
^{152}Nd	(nα)^{149}Ce	2.1130e+00	0.0	1.5	0.0100	0.01	2.8e−02	0
	−5.0526e+02	−1.1154e+01	−3.3903e+02	8.6689e+02	−5.5107e+01	2.9625e+00	−3.3885e+02	−5.0800e+02
^{153}Nd	(nγ)^{154}Nd	6.5730e+00	0.5	0.0	0.0100	0.01	3.7e−03	
	3.3832e+01	5.5555e−02	2.2669e−01	−1.8129e+01	1.9743e+00	−3.0738e−01	4.2722e+00	5.8221e+01
	1.37 2.02	2.61 2.97	3.14 3.15	3.10 3.01	2.91 2.78	1.78 1.19	0.76 0.19	0.03 0.00
^{153}Nd	(nα)^{150}Ce	3.5510e+00	0.5	0.0	0.0100	0.01	6.4e−02	0
	−4.0241e+02	2.3826e+00	−2.6605e+02	6.8117e+02	−4.3485e+01	2.3915e+00	−2.6440e+02	−4.0308e+02
^{154}Nd	(nγ)^{155}Nd	4.4790e+00	0.0	2.5	0.0100	0.01	4.2e−03	
	1.0760e+01	1.4432e−01	−1.2568e+01	1.5917e+01	9.5440e−01	−3.6570e−01	−9.6988e+00	3.2665e+01
	1.00 1.00	1.00 1.03	1.07 1.12	1.19 1.27	1.34 1.42	2.07 2.31	2.19 0.89	0.11 0.01
^{154}Nd	(nα)^{151}Ce	1.3030e+00	0.0	1.5	0.0100	0.01	2.1e−02	0
	−5.1269e+02	−2.1421e+01	−3.8177e+02	9.1932e+02	−5.6567e+01	2.9768e+00	−3.7001e+02	−5.1543e+02
^{155}Nd	(nγ)^{156}Nd	6.0910e+00	2.5	0.0	0.0200	0.01	2.8e−03	
	2.2893e+01	1.2050e−02	7.0042e−01	−7.6495e+00	8.9037e−01	−2.3292e−01	2.0035e+00	4.8381e+01
	1.09 1.28	1.46 1.61	1.71 1.76	1.78 1.80	1.80 1.78	1.42 1.04	0.71 0.18	0.03 0.00

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{155}Nd	(nα)^{152}Ce	2.6260e+00	2.5	0.0	0.0200	0.01	3.7e−02	0
	−5.5954e+02	−4.2197e+00	−3.5878e+02	9.4396e+02	−6.3407e+01	3.6575e+00	−3.6238e+02	−5.5911e+02
^{156}Nd	(nγ)^{157}Nd	4.1470e+00	0.0	2.5	0.0100	0.01	4.9e−03	
	2.4976e+01	−1.3364e−01	1.2876e+01	−2.4089e+01	1.8748e+00	−3.2196e−01	1.1236e+01	4.6881e+01
	1.00 1.00	1.02 1.08	1.22 1.40	1.59 1.79	1.96 2.10	2.26 1.76	1.27 0.36	0.04 0.00
^{156}Nd	(nα)^{153}Ce	3.7800e−01	0.0	2.5	0.0100	0.01	1.4e−02	0
	−5.7799e+02	−3.9303e+01	−4.9463e+02	1.1149e+03	−6.6394e+01	3.4877e+00	−4.6914e+02	−5.8113e+02
^{157}Nd	(nγ)^{158}Nd	5.7140e+00	2.5	0.0	0.0300	0.01	3.0e−03	0
	2.0379e+01	3.8384e−02	−1.7694e+00	−2.9459e+00	5.8836e−01	−2.1683e−01	−1.3221e−01	4.5867e+01
^{158}Nd	(nγ)^{159}Nd	3.8060e+00	0.0	0.5	0.0100	0.01	6.3e−03	0
	4.8521e+01	−3.1425e−01	3.2009e+01	−6.9859e+01	5.1339e+00	−5.2933e−01	2.9659e+01	7.1524e+01
^{159}Nd	(nγ)^{160}Nd	5.4490e+00	0.5	0.0	0.0400	0.01	3.6e−03	0
	2.4143e+01	1.8474e−01	−1.1921e+01	3.0992e+00	8.6565e−01	−2.5617e−01	−6.0502e+00	4.8532e+01
^{160}Nd	(nγ)^{161}Nd	3.6010e+00	0.0	3.5	0.0100	0.01	7.0e−03	0
	4.7813e+01	−3.1650e−01	3.2136e+01	−6.9896e+01	5.1404e+00	−5.3186e−01	2.9711e+01	6.9430e+01
^{161}Nd	(nγ)^{162}Nd	5.0780e+00	3.5	0.0	0.0650	0.01	2.9e−03	0
	9.9246e+00	8.8714e−02	−7.9321e+00	1.3514e+01	−6.1518e−01	−1.4675e−01	−6.5527e+00	3.5701e+01
^{162}Nd	(nγ)^{163}Nd	3.0780e+00	0.0	2.5	0.0100	0.01	3.5e−03	0
	9.2790e−01	7.1009e−02	−8.1659e+00	2.0648e+01	−7.7270e−01	−1.9046e−01	−8.2400e+00	2.2833e+01
^{163}Nd	(nγ)^{164}Nd	4.4130e+00	2.5	0.0	0.1600	0.01	3.3e−03	0
	5.0542e+00	1.4527e−01	−1.2938e+01	2.3134e+01	−1.3336e+00	−1.0106e−01	−1.0765e+01	3.0543e+01
^{164}Nd	(nγ)^{165}Nd	2.4630e+00	0.0	3.5	0.0250	0.01	6.3e−03	0
	1.7283e+01	−1.1957e−01	1.0442e+01	−1.6962e+01	1.4297e+00	−3.1206e−01	8.3982e+00	3.8900e+01
^{165}Nd	(nγ)^{166}Nd	4.0690e+00	3.5	0.0	0.3200	0.01	3.5e−03	0
	3.8823e+00	1.5651e−01	−1.4341e+01	2.4967e+01	−1.2976e+00	−1.1261e−01	−1.2039e+01	2.9658e+01
^{166}Nd	(nγ)^{167}Nd	2.3790e+00	0.0	4.5	0.0300	0.01	9.3e−03	0
	2.5476e+01	−2.1969e−01	2.0361e+01	−3.5744e+01	2.2103e+00	−3.3840e−01	1.7194e+01	4.6870e+01
^{167}Nd	(nγ)^{168}Nd	3.9140e+00	4.5	0.0	0.3250	0.01	4.1e−03	0
	−6.0163e+00	1.9103e−01	−1.8999e+01	4.0373e+01	−2.6954e+00	−1.8538e−02	−1.7335e+01	1.9983e+01
^{168}Nd	(nγ)^{169}Nd	2.1110e+00	0.0	0.5	0.0350	0.01	1.1e−02	0
	2.2432e+01	−1.7025e−01	1.5829e+01	−2.8456e+01	1.9545e+00	−3.4212e−01	1.3445e+01	4.5436e+01
^{169}Nd	(nγ)^{170}Nd	3.7000e+00	0.5	0.0	0.4550	0.01	4.8e−03	0
	−4.2581e+00	3.5408e−01	−3.1309e+01	5.1177e+01	−2.7691e+00	−3.3393e−02	−2.5431e+01	2.0132e+01
^{170}Nd	(nγ)^{171}Nd	1.9770e+00	0.0	1.5	0.0450	0.01	1.0e−02	0
	1.1540e+01	−8.1157e−02	6.6725e+00	−7.4027e+00	3.9171e−01	−2.4352e−01	4.8186e+00	3.3851e+01
^{171}Nd	(nγ)^{172}Nd	3.5720e+00	1.5	0.0	0.5650	0.01	4.9e−03	0
	−5.0525e+00	2.7798e−01	−2.5265e+01	4.5550e+01	−2.8460e+00	−1.6397e−02	−2.1263e+01	2.0031e+01
^{172}Nd	(nγ)^{173}Nd	1.8680e+00	0.0	5.5	0.0600	0.01	7.0e−03	0
	−1.9000e+01	9.2825e−02	−1.3011e+01	4.5662e+01	−3.7388e+00	2.3919e−02	−1.5215e+01	2.2121e+00
^{173}Nd	(nγ)^{174}Nd	3.4390e+00	5.5	0.0	0.7100	0.01	4.9e−03	0
	−1.6531e+01	2.4340e−01	−2.5079e+01	5.7142e+01	−4.0497e+00	6.0358e−02	−2.3618e+01	9.6513e+00
^{174}Nd	(nγ)^{175}Nd	1.5950e+00	0.0	5.5	0.0900	0.01	7.1e−03	0
	−1.6215e+01	4.4913e−02	−8.4017e+00	3.7095e+01	−3.2358e+00	−6.0945e−03	−1.1199e+01	4.9971e+00
^{175}Nd	(nγ)^{176}Nd	3.1500e+00	5.5	0.0	1.1050	0.01	4.8e−03	0
	−1.9219e+01	2.5237e−01	−2.6211e+01	6.0359e+01	−4.2797e+00	7.3995e−02	−2.4829e+01	6.9631e+00
^{176}Nd	(nγ)^{177}Nd	1.4400e+00	0.0	4.5	0.1550	0.01	6.1e−03	0
	−1.7102e+01	3.0627e−02	−7.1022e+00	3.6458e+01	−3.5002e+00	2.8299e−02	−1.0275e+01	4.2930e+00
^{177}Nd	(nγ)^{178}Nd	3.0120e+00	4.5	0.0	1.3400	0.01	4.0e−03	0
	−1.8438e+01	2.4565e−01	−2.5381e+01	5.8095e+01	−4.1901e+00	7.5677e−02	−2.3952e+01	7.5621e+00
^{178}Nd	(nγ)^{179}Nd	5.7800e−01	0.0	0.5	0.2900	0.01	4.3e−03	0
	−6.1451e+01	3.9356e−01	−4.4178e+01	1.1972e+02	−8.7100e+00	3.0827e−01	−4.4960e+01	−3.8447e+01
^{179}Nd	(nγ)^{180}Nd	3.0120e+00	0.5	0.0	2.1600	0.01	3.0e−03	0
	−1.6657e+01	4.2899e−01	−4.0975e+01	7.1329e+01	−3.5188e+00	−2.0696e−02	−3.5088e+01	7.7333e+00
^{142}Pm	(np)^{142}Nd	5.6560e+00	1.0	0.0	0.0100	0.01	2.5e−03	
	6.4649e+01	−3.0874e−01	3.6158e+01	−9.0507e+01	6.0403e+00	−2.8903e−01	3.5911e+01	6.5747e+01
	1.00 1.00	1.00 1.00	0.99 0.97	0.94 0.91	0.86 0.82	0.42 0.25	0.21 0.28	0.54 0.98
^{142}Pm	(nα)^{139}Pr	9.3900e+00	1.0	2.5	0.0100	0.01	6.7e−03	0
	4.4862e+01	−2.9207e−01	2.9381e+01	−7.0684e+01	5.9569e+00	−3.1831e−01	2.8008e+01	4.2814e+01
^{143}Pm	(nγ)^{144}Pm	6.5270e+00	2.5	5.0	0.0100	0.01	4.2e−03	
	7.1137e−01	1.4844e−01	−1.5448e+01	3.4884e+01	−1.6867e+00	−8.5599e−02	−1.4611e+01	2.3801e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 1.00	1.02 1.04	0.92 0.31	0.06 0.01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{143}Pm	(np)^{143}Nd	1.8240e+00	2.5	3.5	0.0100	0.01	1.8e−03	0
	−7.7485e+01	5.1486e−01	−5.5245e+01	1.4097e+02	−6.9558e+00	2.4250e−01	−5.5126e+01	−7.7773e+01
^{143}Pm	(nα)^{140}Pr	7.3760e+00	2.5	1.0	0.0100	0.01	1.6e−02	0
	4.2348e+01	−1.4753e−02	8.9247e+00	−5.7654e+01	1.0326e+01	−9.3828e−01	1.4367e+01	4.1687e+01
^{144}Pm	(nγ)^{145}Pm	7.9240e+00	5.0	2.5	0.0100	0.01	1.1e−04	
	1.2527e+01	7.4263e−02	−7.4467e+00	1.5132e+01	−8.6200e−01	−6.7510e−02	−6.7484e+00	3.6829e+01
	1.00 0.99	0.98 0.95	0.92 0.90	0.88 0.86	0.85 0.83	0.73 0.60	0.43 0.17	0.05 0.01
^{144}Pm	(np)^{144}Nd	3.1140e+00	5.0	0.0	0.0100	0.01	8.1e−03	0
	1.1839e+02	−3.4155e−01	5.4321e+01	−1.8105e+02	1.7236e+01	−1.2731e+00	6.3568e+01	1.2079e+02
^{144}Pm	(nα)^{141}Pr	1.0246e+01	5.0	2.5	0.0100	0.01	3.7e−03	
	4.4802e+01	−3.1280e−01	2.8269e+01	−6.6018e+01	4.6567e+00	−1.8681e−01	2.6610e+01	4.4053e+01
	1.00 1.03	1.09 1.14	1.17 1.19	1.20 1.20	1.20 1.19	1.13 1.07	1.13 2.45	8.09 21.47
^{145}Pm	(nγ)^{146}Pm	6.2570e+00	2.5	3.0	0.0100	0.01	8.9e−04	
	−1.3764e+01	1.9964e−01	−2.2237e+01	5.9122e+01	−4.6212e+00	1.7321e−01	−2.2441e+01	9.7771e+00
	1.00 1.00	1.01 1.01	1.01 1.02	1.02 1.03	1.04 1.04	1.05 0.89	0.58 0.15	0.03 0.01
^{145}Pm	(np)^{145}Nd	9.4600e−01	2.5	3.5	0.0100	0.01	5.7e−02	0
	−1.3411e+02	−1.4484e−01	−7.9453e+00	1.4899e+02	−1.4373e+01	9.3292e−01	−3.0155e+01	−1.3440e+02
^{145}Pm	(nα)^{142}Pr	8.1660e+00	2.5	2.0	0.0100	0.01	1.6e−03	
	2.1241e+01	−4.7733e−01	2.0197e+01	−3.8475e+01	4.7319e+00	−3.5826e−01	1.5645e+01	2.0068e+01
	1.00 1.01	1.02 1.03	1.04 1.05	1.07 1.08	1.09 1.10	1.47 2.74	5.04 15.49	39.64 81.94
^{146}Pm	(nγ)^{147}Pm	7.6600e+00	3.0	3.5	0.0100	0.01	3.4e−04	
	2.3815e+01	6.2688e−02	−4.1261e+00	2.5862e−01	2.7226e−01	−1.4817e−01	−2.0553e+00	4.7377e+01
	1.24 1.54	1.69 1.73	1.71 1.66	1.60 1.54	1.48 1.42	0.96 0.65	0.41 0.13	0.03 0.01
^{146}Pm	(np)^{146}Nd	2.2540e+00	3.0	0.0	0.0100	0.01	1.9e−03	0
	6.6751e+01	−2.2925e−01	3.2145e+01	−1.0682e+02	1.2501e+01	−1.0532e+00	3.6223e+01	6.8697e+01
^{146}Pm	(nα)^{143}Pr	9.2610e+00	3.0	3.5	0.0100	0.01	3.1e−03	
	7.3260e+01	−4.3820e−01	4.1801e+01	−1.1448e+02	9.9090e+00	−6.0402e−01	4.2118e+01	7.1771e+01
	1.15 1.36	1.45 1.45	1.41 1.36	1.31 1.25	1.20 1.15	0.92 0.94	1.30 5.40	22.13 59.79
^{147}Pm	(nγ)^{148}Pm	5.8980e+00	3.5	1.0	0.0100	0.01	1.3e−03	
	−1.2298e+01	1.6952e−01	−1.9866e+01	5.5229e+01	−4.5878e+00	1.7348e−01	−2.0638e+01	1.2379e+01
	1.00 1.00	0.98 0.97	0.95 0.95	0.94 0.93	0.92 0.91	0.83 0.67	0.39 0.08	0.01 0.00
^{147}Pm	(nα)^{144}Pr	7.3550e+00	3.5	0.0	0.0100	0.01	1.6e−03	0
	4.5350e+01	−7.4015e−02	1.5437e+01	−6.5950e+01	9.7254e+00	−8.3407e−01	1.9329e+01	4.6074e+01
^{148}Pm	(nγ)^{149}Pm	7.2690e+00	1.0	3.5	0.0100	0.01	4.5e−04	
	2.9540e+01	−1.2318e−01	1.1462e+01	−2.2588e+01	1.2933e+00	−1.9728e−01	9.9563e+00	5.2255e+01
	1.00 1.00	1.02 1.07	1.12 1.16	1.19 1.18	1.18 1.16	0.87 0.61	0.39 0.12	0.03 0.00
^{148}Pm	(np)^{148}Nd	1.3220e+00	1.0	0.0	0.0100	0.01	1.7e−02	0
	−1.3794e+02	7.8938e−01	−8.7675e+01	2.3474e+02	−1.5112e+01	8.9323e−01	−8.9189e+01	−1.3684e+02
^{148}Pm	(nα)^{145}Pr	8.4040e+00	1.0	3.5	0.0100	0.01	2.7e−03	0
	9.7520e+01	−8.1177e−01	7.0329e+01	−1.7385e+02	1.4860e+01	−9.5511e−01	6.7025e+01	9.5183e+01
^{149}Pm	(nγ)^{150}Pm	5.6030e+00	3.5	1.0	0.0100	0.01	2.1e−03	
	2.1296e+01	−9.0636e−03	7.3506e−01	−3.8385e+00	6.3603e−01	−2.1042e−01	8.1887e−01	4.5972e+01
	1.00 1.00	0.99 0.98	0.97 0.94	0.92 0.88	0.86 0.82	0.60 0.47	0.35 0.11	0.02 0.00
^{149}Pm	(nα)^{146}Pr	6.3100e+00	3.5	2.0	0.0100	0.01	2.2e−02	0
	7.6737e+01	−1.7314e−01	2.8490e+01	−1.2475e+02	1.8848e+01	−1.7619e+00	3.6167e+01	7.5851e+01
^{150}Pm	(nγ)^{151}Pm	7.8630e+00	1.0	2.5	0.0100	0.01	1.5e−04	
	−2.3662e+00	4.1139e−01	−3.7298e+01	6.2490e+01	−3.3386e+00	4.9810e−02	−3.0833e+01	2.0636e+01
	2.96 5.09	4.81 3.98	3.31 2.82	2.47 2.20	2.00 1.83	1.01 0.66	0.42 0.13	0.03 0.01
^{150}Pm	(np)^{150}Nd	8.6800e−01	1.0	0.0	0.0100	0.01	7.4e−02	0
	−1.2178e+02	−2.3523e−01	3.7131e−01	1.2236e+02	−1.1750e+01	7.8133e−01	−2.1870e+01	−1.2068e+02
^{150}Pm	(nα)^{147}Pr	7.5090e+00	1.0	1.5	0.0100	0.01	2.9e−03	0
	8.3819e+01	−6.3156e−01	4.4119e+01	−1.3748e+02	1.4968e+01	−1.0782e+00	4.5813e+01	8.2176e+01
^{151}Pm	(nγ)^{152}Pm	5.9400e+00	2.5	1.0	0.0100	0.01	3.9e−03	
	1.4460e+01	8.4225e−02	−8.0393e+00	1.1748e+01	1.9888e−01	−2.3069e−01	−6.6888e+00	3.8849e+01
	1.00 1.00	0.99 0.98	0.97 0.95	0.93 0.91	0.89 0.88	0.82 0.78	0.66 0.23	0.04 0.01
^{151}Pm	(nα)^{148}Pr	4.7330e+00	2.5	1.0	0.0100	0.01	3.8e−02	0
	−8.9767e+01	8.7861e−01	−8.4918e+01	1.6096e+02	2.4460e−04	−7.3631e−01	−7.5419e+01	−9.0430e+01
^{152}Pm	(nγ)^{153}Pm	7.4720e+00	1.0	2.5	0.0100	0.01	7.5e−04	
	2.3571e+01	−1.3765e−01	1.1239e+01	−1.5899e+01	5.3430e−01	−1.4328e−01	8.4677e+00	4.6573e+01
	0.96 0.90	0.87 0.87	0.90 0.93	0.96 0.97	0.97 0.96	0.73 0.53	0.35 0.11	0.02 0.00
^{152}Pm	(nα)^{149}Pr	5.3670e+00	1.0	2.5	0.0100	0.01	2.2e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	2.8781e+01	−1.4630e−01	1.6172e+01	−6.5258e+01	1.2698e+01	−1.1813e+00	1.8906e+01	2.6732e+01
^{153}Pm	$(n\gamma)^{154}$Pm	5.8140e+00	2.5	1.0	0.0100	0.01	3.8e−03	
	−3.4315e+00	1.8293e−01	−1.9465e+01	4.2648e+01	−2.1590e+00	−8.1868e−02	−1.8420e+01	2.0958e+01
	1.00 0.97	0.94 0.92	0.91 0.91	0.90 0.91	0.91 0.91	0.98 0.97	0.80 0.24	0.04 0.00
^{153}Pm	$(n\alpha)^{150}$Pr	2.9820e+00	2.5	1.0	0.0100	0.01	1.4e−02	0
	−4.6830e+02	−1.6701e+00	−3.0066e+02	7.8676e+02	−5.1423e+01	2.8108e+00	−3.0091e+02	−4.6896e+02
^{154}Pm	$(n\gamma)^{155}$Pm	6.6740e+00	1.0	2.5	0.0100	0.01	1.2e−03	
	2.7277e+01	7.8212e−02	−3.9904e+00	−5.0321e+00	8.0785e−01	−1.9745e−01	−7.6074e−01	5.0280e+01
	1.53 2.19	2.60 2.71	2.65 2.54	2.40 2.25	2.12 2.00	1.18 0.76	0.47 0.13	0.03 0.00
^{154}Pm	$(n\alpha)^{151}$Pr	4.2450e+00	1.0	1.5	0.0100	0.01	5.7e−02	0
	−1.8669e+02	1.4590e+00	−1.5024e+02	3.3068e+02	−1.3943e+01	3.5340e−01	−1.4019e+02	−1.8834e+02
^{155}Pm	$(n\gamma)^{156}$Pm	5.0430e+00	2.5	0.0	0.0100	0.01	2.2e−03	
	5.5971e+00	1.2190e−01	−1.2277e+01	2.4672e+01	−1.1697e+00	−1.1538e−01	−1.1134e+01	3.1085e+01
	1.00 0.99	0.98 0.97	0.96 0.95	0.94 0.93	0.93 0.92	0.91 0.82	0.63 0.19	0.03 0.00
^{155}Pm	$(n\alpha)^{152}$Pr	2.4830e+00	2.5	4.0	0.0100	0.01	3.1e−02	0
	−5.7313e+02	−6.5664e+00	−4.6678e+02	1.0726e+03	−6.7556e+01	3.7148e+00	−4.3764e+02	−5.7489e+02
^{156}Pm	$(n\gamma)^{157}$Pm	6.2370e+00	0.0	2.5	0.0100	0.01	3.0e−04	
	−8.9964e−01	4.2948e−01	−3.7413e+01	5.9458e+01	−3.1348e+00	3.0798e−02	−2.9937e+01	2.1005e+01
	3.88 6.77	6.43 5.26	4.29 3.59	3.09 2.71	2.41 2.17	1.10 0.68	0.42 0.12	0.02 0.00
^{156}Pm	$(n\alpha)^{153}$Pr	3.3770e+00	0.0	1.5	0.0100	0.01	5.6e−02	0
	−4.2137e+02	2.4544e+00	−2.7682e+02	7.1051e+02	−4.4880e+01	2.4236e+00	−2.7584e+02	−4.2411e+02
^{157}Pm	$(n\gamma)^{158}$Pm	4.7070e+00	2.5	3.0	0.0100	0.01	2.3e−03	
	2.5513e+01	4.9225e−03	1.6570e+00	−1.1063e+01	1.1112e+00	−2.3765e−01	3.1182e+00	4.9055e+01
	1.11 1.31	1.47 1.60	1.66 1.70	1.71 1.69	1.66 1.63	1.18 0.84	0.55 0.14	0.02 0.00
^{157}Pm	$(n\alpha)^{154}$Pr	1.5440e+00	2.5	3.0	0.0100	0.01	2.0e−02	0
	−5.6193e+02	−1.9256e+01	−4.1733e+02	1.0112e+03	−6.4374e+01	3.5475e+00	−4.0531e+02	−5.6344e+02
^{158}Pm	$(n\gamma)^{159}$Pm	5.8500e+00	3.0	2.5	0.0100	0.01	1.1e−03	
	2.9785e+01	1.6306e−02	1.2424e+00	−1.4519e+01	1.4311e+00	−2.3781e−01	3.4768e+00	5.3635e+01
	1.21 1.48	1.66 1.74	1.74 1.70	1.63 1.56	1.49 1.42	0.91 0.60	0.38 0.11	0.02 0.00
^{158}Pm	$(n\alpha)^{155}$Pr	2.3290e+00	3.0	1.5	0.0100	0.01	3.2e−02	0
	−5.0481e+02	−9.9141e+00	−3.4255e+02	8.7011e+02	−5.6130e+01	3.1356e+00	−3.4101e+02	−5.0561e+02
^{159}Pm	$(n\gamma)^{160}$Pm	4.3560e+00	2.5	3.0	0.0100	0.01	2.4e−03	0
	2.5058e+01	3.2410e−02	−5.2374e−01	−9.0578e+00	1.1493e+00	−2.4754e−01	1.6181e+00	4.8600e+01
^{160}Pm	$(n\gamma)^{161}$Pm	5.5310e+00	3.0	2.5	0.0100	0.01	1.2e−03	0
	2.9935e+01	3.3392e−02	2.1150e−02	−1.4028e+01	1.5255e+00	−2.4877e−01	2.7671e+00	5.3786e+01
^{161}Pm	$(n\gamma)^{162}$Pm	4.0850e+00	2.5	4.0	0.0100	0.01	2.3e−03	0
	2.4135e+01	5.4534e−02	−2.3998e+00	−6.7933e+00	1.1158e+00	−2.5195e−01	2.1269e−01	4.7426e+01
^{162}Pm	$(n\gamma)^{163}$Pm	5.1440e+00	4.0	2.5	0.0100	0.01	1.1e−03	0
	2.8638e+01	3.4037e−02	−3.3661e−01	−1.3130e+01	1.5500e+00	−2.5705e−01	2.3103e+00	5.2740e+01
^{163}Pm	$(n\gamma)^{164}$Pm	3.5510e+00	2.5	3.0	0.0100	0.01	2.4e−03	0
	2.1430e+01	9.6165e−02	−6.2407e+00	−1.2491e+00	1.0257e+00	−2.6128e−01	−2.9035e+00	4.4973e+01
^{164}Pm	$(n\gamma)^{165}$Pm	4.4990e+00	3.0	2.5	0.0100	0.01	9.9e−04	0
	2.5039e+01	8.5110e−02	−4.9011e+00	−5.6100e+00	1.1350e+00	−2.3549e−01	−1.4211e+00	4.8890e+01
^{165}Pm	$(n\gamma)^{166}$Pm	2.9220e+00	2.5	1.0	0.0100	0.01	2.6e−03	0
	1.4160e+01	1.3072e−01	−1.0280e+01	9.7531e+00	1.4741e−01	−2.0524e−01	−7.0719e+00	3.8550e+01
^{166}Pm	$(n\gamma)^{167}$Pm	4.1040e+00	1.0	2.5	0.0150	0.01	8.9e−04	0
	6.6621e+00	3.4134e−01	−2.8856e+01	3.8571e+01	−1.4384e+00	−9.6430e−02	−2.1956e+01	2.9666e+01
^{167}Pm	$(n\gamma)^{168}$Pm	2.7070e+00	2.5	5.0	0.0100	0.01	2.9e−03	0
	9.7225e+00	1.8177e−01	−1.5242e+01	1.9654e+01	−5.7375e−01	−1.5914e−01	−1.1482e+01	3.2813e+01
^{168}Pm	$(n\gamma)^{169}$Pm	3.9740e+00	5.0	2.5	0.0150	0.01	1.2e−03	0
	1.5080e+01	1.7607e−01	−1.4542e+01	1.4112e+01	−7.8753e−04	−1.8273e−01	−1.0368e+01	3.9383e+01
^{169}Pm	$(n\gamma)^{170}$Pm	2.5820e+00	2.5	2.0	0.0100	0.01	3.1e−03	0
	4.8694e+00	2.2239e−01	−1.9520e+01	2.8934e+01	−1.2218e+00	−1.2009e−01	−1.5494e+01	2.8749e+01
^{170}Pm	$(n\gamma)^{171}$Pm	3.6930e+00	2.0	2.5	0.0150	0.01	1.0e−03	0
	3.6716e+00	3.2068e−01	−2.8147e+01	4.0328e+01	−1.6811e+00	−8.3409e−02	−2.2180e+01	2.7186e+01
^{171}Pm	$(n\gamma)^{172}$Pm	2.3540e+00	2.5	2.0	0.0100	0.01	3.2e−03	0
	1.6214e+00	2.4414e−01	−2.1891e+01	3.4556e+01	−1.6465e+00	−9.4964e−02	−1.7797e+01	2.5501e+01
^{172}Pm	$(n\gamma)^{173}$Pm	3.5730e+00	2.0	1.5	0.0150	0.01	8.3e−04	0
	−2.7480e+00	3.7191e−01	−3.3791e+01	5.2758e+01	−2.4353e+00	−4.4534e−02	−2.7586e+01	2.1172e+01
^{173}Pm	$(n\gamma)^{174}$Pm	2.3040e+00	1.5	6.0	0.0100	0.01	2.9e−03	0
	−4.0792e+00	3.3141e−01	−3.0013e+01	4.9024e+01	−2.4795e+00	−4.9195e−02	−2.4691e+01	1.8439e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{174}Pm	$(n\gamma)^{175}$Pm	3.4540e+00	6.0	0.5	0.0150	0.01	1.1e−03	0
	1.4182e+01	1.6250e−01	−1.3551e+01	1.3195e+01	−4.7294e−02	−1.8315e−01	−9.7265e+00	3.9751e+01
^{175}Pm	$(n\gamma)^{176}$Pm	2.0160e+00	0.5	6.0	0.0100	0.01	2.8e−03	0
	−1.5259e+01	4.4129e−01	−4.1409e+01	7.2028e+01	−3.6857e+00	3.4384e−03	−3.5145e+01	6.5668e+00
^{176}Pm	$(n\gamma)^{177}$Pm	3.1820e+00	6.0	0.5	0.0300	0.01	1.0e−03	0
	1.4048e+01	1.5462e−01	−1.2935e+01	1.1766e+01	1.1079e−01	−1.9614e−01	−9.2196e+00	3.9617e+01
^{177}Pm	$(n\gamma)^{178}$Pm	1.8060e+00	0.5	5.0	0.0100	0.01	2.8e−03	0
	−1.4681e+01	4.1409e−01	−3.9068e+01	6.8229e+01	−3.4880e+00	−6.7934e−03	−3.3278e+01	7.3120e+00
^{178}Pm	$(n\gamma)^{179}$Pm	3.0890e+00	5.0	0.5	0.0450	0.01	1.0e−03	0
	1.0707e+01	1.8574e−01	−1.6088e+01	1.7889e+01	−2.2635e−01	−1.8037e−01	−1.2058e+01	3.6109e+01
^{179}Pm	$(n\gamma)^{180}$Pm	1.0490e+00	0.5	3.0	0.0100	0.01	5.3e−03	0
	−1.8167e+01	4.1473e−01	−3.9558e+01	6.9566e+01	−3.0689e+00	−7.6365e−02	−3.3949e+01	4.2774e+00
^{180}Pm	$(n\gamma)^{181}$Pm	3.0220e+00	3.0	2.5	0.1500	0.01	6.4e−04	0
	−6.9326e+00	3.6418e−01	−3.4523e+01	5.5500e+01	−2.3066e+00	−7.6304e−02	−2.8976e+01	1.6919e+01
^{181}Pm	$(n\gamma)^{182}$Pm	1.9020e+00	2.5	5.0	0.0100	0.01	2.3e−03	0
	−1.2915e+00	2.1441e−01	−1.9973e+01	3.3588e+01	−1.7038e+00	−9.2769e−02	−1.6777e+01	2.1800e+01
^{144}Sm	$(n\gamma)^{145}$Sm	6.7570e+00	0.0	3.5	0.0100	0.01	1.3e−02	
	1.2026e+01	9.0889e−02	−8.4521e+00	1.3132e+01	1.0356e+00	−3.5123e−01	−7.0624e+00	3.3642e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.03	1.11 0.44	0.07 0.01
^{144}Sm	$(np)^{144}$Pm	2.3200e−01	0.0	5.0	0.0100	0.01	1.1e−02	0
	−3.2315e+01	2.0136e+00	−9.3562e+01	1.1906e+02	−9.9978e+00	5.2437e−01	−3.8676e+01	−3.4713e+01
^{144}Sm	$(n\alpha)^{141}$Nd	7.8730e+00	0.0	1.5	0.0100	0.01	4.9e−02	0
	1.1484e+02	−1.9363e+00	1.1056e+02	−2.4111e+02	2.3345e+01	−1.8313e+00	9.5878e+01	1.1210e+02
^{145}Sm	$(n\gamma)^{146}$Sm	8.4150e+00	3.5	0.0	0.0100	0.01	7.5e−03	
	−3.0248e+01	3.2882e−01	−3.5712e+01	9.0881e+01	−6.6035e+00	2.6339e−01	−3.5322e+01	−4.4735e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.73 0.14	0.02 0.00
^{145}Sm	$(np)^{145}$Pm	1.3990e+00	3.5	2.5	0.0100	0.01	2.4e−03	0
	−1.6422e+02	9.1149e−01	−1.0222e+02	2.7829e+02	−1.6182e+01	6.1744e−01	−1.0481e+02	−1.6393e+02
^{145}Sm	$(n\alpha)^{142}$Nd	1.0944e+01	3.5	0.0	0.0100	0.01	2.1e−03	
	2.5584e+00	−2.8429e−01	7.2420e+00	2.3864e+00	−7.4014e−01	1.3609e−01	2.1915e+00	3.2829e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.11	1.18 1.40	3.21 7.33
^{146}Sm	$(n\gamma)^{147}$Sm	6.3420e+00	0.0	3.5	0.0100	0.01	1.1e−02	
	−1.6703e+01	2.5938e−01	−2.7258e+01	6.5186e+01	−3.6862e+00	−1.0395e−02	−2.6238e+01	4.9132e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.05 1.21	1.19 0.31	0.04 0.01
^{146}Sm	$(n\alpha)^{143}$Nd	8.6520e+00	0.0	3.5	0.0100	0.01	9.1e−03	0
	9.6073e+00	−1.4727e−02	−3.0589e+00	−3.4505e+00	3.7748e+00	−4.1639e−01	−1.7691e+00	6.1727e+00
^{147}Sm	$(n\gamma)^{148}$Sm	8.1420e+00	3.5	0.0	0.0100	0.01	3.5e−03	
	−1.2854e+01	2.0482e−01	−2.2812e+01	5.8590e+01	−4.1352e+00	8.9901e−02	−2.2831e+01	1.2921e+01
	1.00 1.00	1.00 1.00	0.99 0.97	0.97 0.95	0.94 0.93	0.86 0.77	0.53 0.12	0.02 0.00
^{147}Sm	$(np)^{147}$Pm	5.5900e−01	3.5	3.5	0.0100	0.01	4.2e−03	0
	7.1481e+01	−2.0385e+00	1.9587e+02	−2.8973e+02	1.3655e+01	−7.5256e−01	1.6241e+02	7.1481e+01
^{147}Sm	$(n\alpha)^{144}$Nd	1.0128e+01	3.5	0.0	0.0100	0.01	3.3e−03	
	4.6811e+01	−1.2698e+00	6.5114e+01	−1.0775e+02	6.9929e+00	−3.3522e−01	5.0107e+01	4.7535e+01
	1.00 1.00	1.01 1.01	1.01 1.02	1.04 1.06	1.06 1.08	1.21 1.35	1.58 3.93	14.81 39.87
^{148}Sm	$(n\gamma)^{149}$Sm	5.8720e+00	0.0	3.5	0.0100	0.01	7.0e−03	
	−1.2532e+01	2.1456e−01	−2.2621e+01	5.6103e+01	−3.3544e+00	−2.7551e−02	−2.2008e+01	9.0842e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.11 1.27	1.10 0.28	0.03 0.00
^{148}Sm	$(n\alpha)^{145}$Nd	7.7420e+00	0.0	3.5	0.0100	0.01	1.7e−03	0
	4.6735e+01	−9.7326e−01	5.0656e+01	−1.0156e+02	1.0556e+01	−8.2750e−01	4.1904e+01	4.3300e+01
^{149}Sm	$(n\gamma)^{150}$Sm	7.9860e+00	3.5	0.0	0.0100	0.01	1.4e−03	
	1.2364e+00	7.2624e−02	−9.8374e+00	2.9468e+01	−2.1784e+00	−2.4335e−02	−1.0896e+01	2.7012e+01
	0.99 0.96	0.94 0.93	0.93 0.91	0.91 0.91	0.90 0.90	0.79 0.63	0.44 0.11	0.02 0.00
^{149}Sm	$(n\alpha)^{146}$Nd	9.4350e+00	3.5	0.0	0.0100	0.01	6.0e−03	0
	9.7160e+01	−1.4506e+00	9.4655e+01	−1.9632e+02	1.5404e+01	−1.0136e+00	8.1714e+01	9.7883e+01
^{150}Sm	$(n\gamma)^{151}$Sm	5.5960e+00	0.0	2.5	0.0100	0.01	6.2e−03	
	6.0571e+00	1.0706e−01	−1.0465e+01	2.2763e+01	−5.7424e−01	−2.2541e−01	−9.5785e+00	2.7961e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.02	1.16 1.30	1.20 0.40	0.05 0.00
^{150}Sm	$(n\alpha)^{147}$Nd	6.7410e+00	0.0	2.5	0.0100	0.01	3.6e−03	0
	6.8891e+01	−8.3025e−01	5.4162e+01	−1.3727e+02	1.6527e+01	−1.4492e+00	5.0649e+01	6.5744e+01
^{151}Sm	$(n\gamma)^{152}$Sm	8.2580e+00	2.5	0.0	0.0100	0.01	2.6e−03	
	2.0521e+01	5.0920e−03	−1.0121e+00	−1.6262e+00	1.1173e+00	−2.9175e−01	−7.7002e−01	4.6009e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	0.94 0.89	0.87 0.87	0.88 0.88	0.89 0.90	0.91 0.91	0.90 0.86	0.73 0.27	0.04 0.01
^{151}Sm	(nα)^{148}Nd	8.4780e+00	2.5	0.0	0.0100	0.01	3.3e−03	0
	1.2908e+02	−1.2781e+00	9.4764e+01	−2.3864e+02	2.2535e+01	−1.7219e+00	8.9487e+01	1.2951e+02
^{152}Sm	(nγ)^{153}Sm	5.8680e+00	0.0	1.5	0.0100	0.01	6.3e−03	
	1.4612e+01	7.8758e−02	−6.6960e+00	9.2307e+00	8.6282e−01	−3.4198e−01	−5.2061e+00	3.6922e+01
	1.00 1.00	1.02 1.04	1.07 1.11	1.15 1.19	1.23 1.27	1.65 1.82	1.71 0.63	0.07 0.01
^{152}Sm	(nα)^{149}Nd	5.2590e+00	0.0	2.5	0.0100	0.01	2.9e−02	0
	−1.9114e+01	1.9264e−01	−2.6082e+01	2.7993e+01	8.3786e+00	−1.1693e+00	−2.0463e+01	−2.2262e+01
^{153}Sm	(nγ)^{154}Sm	7.9680e+00	1.5	0.0	0.0100	0.01	2.1e−03	
	7.4114e+00	7.3339e−02	−8.6870e+00	2.0707e+01	−8.7220e−01	−1.4742e−01	−8.7297e+00	3.2494e+01
	1.09 1.15	1.19 1.24	1.27 1.32	1.35 1.39	1.40 1.43	1.46 1.28	0.98 0.30	0.05 0.01
^{153}Sm	(nα)^{150}Nd	6.7720e+00	1.5	0.0	0.0100	0.01	4.3e−03	0
	8.9493e+01	−7.0668e−01	5.5985e+01	−1.6544e+02	1.9427e+01	−1.5544e+00	5.6585e+01	8.9523e+01
^{154}Sm	(nγ)^{155}Sm	5.8070e+00	0.0	1.5	0.0100	0.01	7.5e−03	
	7.7069e+00	1.4768e−01	−1.3395e+01	2.3310e+01	−1.0235e−01	−2.8148e−01	−1.1237e+01	3.0017e+01
	1.00 1.02	1.07 1.13	1.18 1.24	1.30 1.36	1.41 1.47	1.86 2.03	1.83 0.58	0.06 0.01
^{154}Sm	(nα)^{151}Nd	4.1380e+00	0.0	1.5	0.0100	0.01	5.2e−02	0
	−2.5397e+02	1.6777e+00	−1.8220e+02	4.3678e+02	−2.2751e+01	8.9385e−01	−1.7602e+02	−2.5671e+02
^{155}Sm	(nγ)^{156}Sm	7.2420e+00	1.5	0.0	0.0100	0.01	3.8e−03	
	−2.3526e+00	1.7542e−01	−1.8521e+01	3.9877e+01	−1.9083e+00	−1.0225e−01	−1.7402e+01	2.2730e+01
	1.09 1.13	1.14 1.14	1.14 1.15	1.15 1.16	1.17 1.18	1.25 1.22	1.01 0.30	0.04 0.01
^{155}Sm	(nα)^{152}Nd	5.6030e+00	1.5	0.0	0.0100	0.01	4.7e−02	0
	−4.0238e+01	4.7845e−01	−5.0775e+01	7.8361e+01	3.2266e+00	−6.1474e−01	−4.2785e+01	−4.0209e+01
^{156}Sm	(nγ)^{157}Sm	5.4710e+00	0.0	1.5	0.0100	0.01	6.8e−03	
	1.4143e+01	1.2241e−01	−1.0192e+01	1.1856e+01	1.1406e+00	−3.8155e−01	−7.5683e+00	3.6453e+01
	1.00 1.01	1.02 1.06	1.11 1.17	1.23 1.29	1.35 1.41	1.86 2.08	2.00 0.76	0.08 0.01
^{156}Sm	(nα)^{153}Nd	3.8060e+00	0.0	0.5	0.0100	0.01	3.0e−02	0
	−3.1137e+02	1.8808e+00	−2.0780e+02	5.2135e+02	−2.9069e+01	1.2638e+00	−2.0520e+02	−3.1342e+02
^{157}Sm	(nγ)^{158}Sm	6.7610e+00	1.5	0.0	0.0100	0.01	3.0e−03	
	2.8534e+01	−4.1970e−02	6.0409e+00	−1.7886e+01	1.4533e+00	−2.6421e−01	6.7447e+00	5.3616e+01
	1.12 1.32	1.53 1.72	1.84 1.92	1.96 1.97	1.96 1.93	1.48 1.06	0.70 0.17	0.02 0.00
^{157}Sm	(nα)^{154}Nd	4.9080e+00	1.5	0.0	0.0100	0.01	5.7e−02	0
	−1.2457e+02	1.0943e+00	−1.0908e+02	2.2605e+02	−7.6131e+00	5.9182e−02	−9.9356e+01	−1.2454e+02
^{158}Sm	(nγ)^{159}Sm	4.8630e+00	0.0	2.5	0.0100	0.01	6.3e−03	
	7.5017e+00	1.8436e−01	−1.6260e+01	2.4223e+01	2.7569e−01	−3.2468e−01	−1.3004e+01	2.9406e+01
	1.00 1.02	1.05 1.09	1.14 1.20	1.26 1.32	1.38 1.44	1.90 2.04	1.82 0.60	0.06 0.01
^{158}Sm	(nα)^{155}Nd	2.6260e+00	0.0	2.5	0.0100	0.01	3.0e−02	0
	−5.4112e+02	−5.5194e+00	−4.1760e+02	9.8585e+02	−6.1750e+01	3.3342e+00	−3.9770e+02	−5.4427e+02
^{159}Sm	(nγ)^{160}Sm	6.4080e+00	2.5	0.0	0.0100	0.01	2.8e−03	
	2.0503e+01	−2.0664e−03	1.1753e+00	−4.7808e+00	4.9266e−01	−2.0596e−01	1.6710e+00	4.5991e+01
	1.06 1.18	1.32 1.43	1.51 1.58	1.61 1.63	1.63 1.62	1.34 0.99	0.66 0.16	0.02 0.00
^{159}Sm	(nα)^{156}Nd	3.8540e+00	2.5	0.0	0.0100	0.01	8.1e−02	0
	−3.7236e+02	2.4538e+00	−2.6384e+02	6.4379e+02	−3.8088e+01	1.9096e+00	−2.5675e+02	−3.7193e+02
^{160}Sm	(nγ)^{161}Sm	4.4980e+00	0.0	0.5	0.0100	0.01	4.4e−03	
	1.7257e+01	−7.2357e−02	6.4321e+00	−8.3217e+00	7.1928e−01	−2.5377e−01	5.0055e+00	4.0260e+01
	1.00 1.00	1.01 1.06	1.16 1.30	1.46 1.62	1.77 1.90	2.11 1.69	1.22 0.33	0.03 0.00
^{160}Sm	(nα)^{157}Nd	1.5930e+00	0.0	2.5	0.0100	0.01	2.0e−02	0
	−5.2736e+02	−1.9909e+01	−4.0197e+02	9.5793e+02	−5.9663e+01	3.2152e+00	−3.8719e+02	−5.3051e+02
^{161}Sm	(nγ)^{162}Sm	6.0490e+00	0.5	0.0	0.0150	0.01	3.9e−03	0
	3.2016e+01	6.2100e−02	−6.2563e−01	−1.5972e+01	1.8506e+00	−3.0870e−01	3.3783e+00	5.6406e+01
^{162}Sm	(nγ)^{163}Sm	4.1620e+00	0.0	3.5	0.0100	0.01	4.9e−03	0
	2.0171e+01	−1.0025e−01	9.2759e+00	−1.5224e+01	1.2711e+00	−2.9267e−01	7.7152e+00	4.1788e+01
^{163}Sm	(nγ)^{164}Sm	5.6690e+00	3.5	0.0	0.0250	0.01	2.7e−03	0
	1.5328e+01	4.4232e−02	−3.4743e+00	4.0561e+00	6.1031e−02	−1.9065e−01	−2.4791e+00	4.1104e+01
^{164}Sm	(nγ)^{165}Sm	3.6000e+00	0.0	2.5	0.0100	0.01	3.8e−03	0
	−1.3525e+01	2.9246e−01	−2.8641e+01	5.7839e+01	−2.5601e+00	−1.2368e−01	−2.5679e+01	8.3800e+00
^{165}Sm	(nγ)^{166}Sm	4.8700e+00	2.5	0.0	0.0650	0.01	3.0e−03	0
	1.0903e+01	8.2496e−02	−6.9209e+00	1.1591e+01	−6.0714e−01	−1.4229e−01	−5.4979e+00	3.6391e+01
^{166}Sm	(nγ)^{167}Sm	3.0140e+00	0.0	3.5	0.0100	0.01	7.6e−03	0
	4.0872e+01	−2.6717e−01	2.7064e+01	−5.7633e+01	4.1478e+00	−4.7011e−01	2.4867e+01	6.2490e+01
^{167}Sm	(nγ)^{168}Sm	4.7330e+00	3.5	0.0	0.0950	0.01	3.2e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.4353e+01	1.1536e−01	−9.1540e+00	9.2921e+00	2.5250e−02	−1.9994e−01	−6.4019e+00	4.0129e+01
^{168}Sm	$(n\gamma)^{169}$Sm	2.8590e+00	0.0	4.5	0.0100	0.01	7.9e−03	0
	1.7759e+01	−1.4321e−01	1.2497e+01	−1.7988e+01	1.0658e+00	−2.7382e−01	9.8194e+00	3.9153e+01
^{169}Sm	$(n\gamma)^{170}$Sm	4.4780e+00	4.5	0.0	0.1250	0.01	3.7e−03	0
	2.3013e+00	1.4569e−01	−1.3936e+01	2.7229e+01	−1.6518e+00	−8.8294e−02	−1.2256e+01	2.8301e+01
^{170}Sm	$(n\gamma)^{171}$Sm	2.6300e+00	0.0	0.5	0.0150	0.01	5.3e−03	0
	−1.8328e+01	1.6540e−01	−1.9190e+01	5.3113e+01	−3.7485e+00	1.0020e−02	−1.9861e+01	4.6754e+00
^{171}Sm	$(n\gamma)^{172}$Sm	4.1650e+00	0.5	0.0	0.1750	0.01	4.7e−03	0
	−2.6988e−01	3.5379e−01	−3.0108e+01	4.6794e+01	−2.5020e+00	−4.8544e−02	−2.3683e+01	2.4120e+01
^{172}Sm	$(n\gamma)^{173}$Sm	2.4280e+00	0.0	1.5	0.0200	0.01	8.0e−03	0
	−5.1302e+00	4.9323e−02	−7.1773e+00	2.6313e+01	−2.0824e+00	−8.5899e−02	−8.5865e+00	1.7181e+01
^{173}Sm	$(n\gamma)^{174}$Sm	4.0350e+00	1.5	0.0	0.2350	0.01	5.0e−03	0
	2.7221e−01	2.5819e−01	−2.2550e+01	3.8004e+01	−2.2682e+00	−5.5426e−02	−1.8312e+01	2.5356e+01
^{174}Sm	$(n\gamma)^{175}$Sm	2.3360e+00	0.0	5.5	0.0250	0.01	1.3e−02	0
	2.4841e+01	−2.1829e−01	2.0387e+01	−3.4763e+01	1.9665e+00	−3.3291e−01	1.7174e+01	4.6053e+01
^{175}Sm	$(n\gamma)^{176}$Sm	3.8940e+00	5.5	0.0	0.3000	0.01	5.0e−03	0
	−1.4954e+01	2.3717e−01	−2.4360e+01	5.5828e+01	−4.0126e+00	5.9332e−02	−2.2944e+01	1.1228e+01
^{176}Sm	$(n\gamma)^{177}$Sm	2.0620e+00	0.0	3.5	0.0350	0.01	6.5e−03	0
	−2.1789e+01	1.6267e−01	−1.9220e+01	5.5593e+01	−4.1465e+00	3.2104e−02	−2.0254e+01	−1.7147e−01
^{177}Sm	$(n\gamma)^{178}$Sm	3.5120e+00	3.5	0.0	0.5400	0.01	4.7e−03	0
	−1.5642e+01	2.5242e−01	−2.5344e+01	5.7112e+01	−4.2050e+00	7.8650e−02	−2.3544e+01	1.0135e+01
^{178}Sm	$(n\gamma)^{179}$Sm	1.7520e+00	0.0	4.5	0.0650	0.01	6.2e−03	0
	−2.3928e+01	8.7847e−02	−1.3446e+01	5.1786e+01	−4.6042e+00	9.5415e−02	−1.6502e+01	−2.5336e+00
^{179}Sm	$(n\gamma)^{180}$Sm	3.5090e+00	4.5	0.0	0.7350	0.01	4.2e−03	0
	−1.2374e+01	2.3237e−01	−2.3319e+01	5.0654e+01	−3.5637e+00	3.1290e−02	−2.1464e+01	1.3626e+01
^{180}Sm	$(n\gamma)^{181}$Sm	1.0960e+00	0.0	0.5	0.1000	0.01	5.1e−03	0
	−4.7831e+01	3.0710e−01	−3.5326e+01	9.8362e+01	−7.3037e+00	2.2424e−01	−3.6519e+01	−2.4827e+01
^{181}Sm	$(n\gamma)^{182}$Sm	3.4530e+00	0.5	0.0	1.3500	0.01	4.3e−03	0
	−1.5074e+01	4.5578e−01	−4.2727e+01	7.2617e+01	−3.4206e+00	−4.6645e−02	−3.6077e+01	9.3169e+00
^{182}Sm	$(n\gamma)^{183}$Sm	1.8120e+00	0.0	0.5	0.0700	0.01	5.9e−03	0
	−2.2219e+01	1.0026e−01	−1.4263e+01	5.0581e+01	−4.3951e+00	8.0281e−02	−1.6782e+01	7.8588e−01
^{183}Sm	$(n\gamma)^{184}$Sm	3.2510e+00	0.5	0.0	0.8300	0.01	3.9e−03	0
	−6.3277e+00	3.0259e−01	−2.7416e+01	4.8022e+01	−2.8415e+00	−2.5826e−02	−2.2892e+01	1.8063e+01
^{146}Eu	$(n\gamma)^{147}$Eu	8.4990e+00	4.0	2.5	0.0100	0.01	7.8e−05	
	8.3614e+00	5.7998e−02	−7.1284e+00	2.0625e+01	−1.7084e+00	4.2239e−03	−7.5937e+00	3.2462e+01
	1.12 1.08	1.06 1.05	1.04 1.04	1.04 1.03	1.03 1.02	0.91 0.67	0.44 0.15	0.04 0.01
^{146}Eu	$(np)^{146}$Sm	4.6600e+00	4.0	0.0	0.0100	0.01	1.6e−02	0
	3.3330e+01	−2.8453e−01	2.7646e+01	−5.1801e+01	3.2461e+00	−1.1156e−01	2.3617e+01	3.5528e+01
^{146}Eu	$(n\alpha)^{143}$Pm	1.1490e+01	4.0	2.5	0.0100	0.01	3.6e−03	
	1.8931e+01	−7.3736e−02	8.0695e+00	−1.4237e+01	4.2197e−01	8.8605e−02	6.7824e+00	1.7981e+01
	1.02 0.94	0.91 0.90	0.90 0.90	0.91 0.91	0.92 0.93	0.91 0.81	0.78 1.29	3.30 7.97
^{147}Eu	$(n\gamma)^{148}$Eu	6.7560e+00	2.5	5.0	0.0100	0.01	1.0e−03	
	−1.8116e+01	2.2637e−01	−2.5226e+01	6.8115e+01	−5.4896e+00	2.3755e−01	−2.5562e+01	4.9738e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 0.83	0.49 0.11	0.02 0.00
^{147}Eu	$(np)^{147}$Sm	2.5040e+00	2.5	3.5	0.0100	0.01	4.3e−03	0
	7.8807e−01	9.1935e−02	−7.7261e+00	1.2400e+01	2.1242e+00	−3.2815e−01	−6.7808e+00	5.0039e−01
^{147}Eu	$(n\alpha)^{144}$Pm	9.5170e+00	2.5	5.0	0.0100	0.01	1.2e−03	
	3.6852e+00	5.5556e−02	−6.3385e+00	1.2681e+01	2.9023e−01	−4.4949e−02	−5.8836e+00	1.7237e+00
	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.02	1.03 1.05	1.34 1.99	2.63 5.00	10.54 16.28
^{148}Eu	$(n\gamma)^{149}$Eu	8.2870e+00	5.0	2.5	0.0100	0.01	2.3e−03	
	2.1962e+01	−6.8665e−02	5.6412e+00	−6.4559e+00	−3.5014e−01	−4.4134e−02	4.1385e+00	4.6264e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.72 0.36	0.19 0.06	0.02 0.00
^{148}Eu	$(np)^{148}$Sm	3.8900e+00	5.0	0.0	0.0100	0.01	1.9e−02	0
	−3.2061e+01	1.2428e−01	−1.5906e+01	6.2054e+01	−5.9604e+00	5.4107e−01	−1.9408e+01	−2.9663e+01
^{148}Eu	$(n\alpha)^{145}$Pm	1.0686e+01	5.0	2.5	0.0100	0.01	7.5e−03	
	2.8359e+01	−1.9071e−01	1.7244e+01	−3.5720e+01	2.1676e+00	−1.9213e−02	1.5378e+01	2.7610e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 1.00	0.99 0.99	0.94 0.78	0.79 1.86	6.47 18.21
^{149}Eu	$(n\gamma)^{150}$Eu	6.4170e+00	2.5	0.0	0.0100	0.01	2.2e−04	
	−6.8253e+00	1.1444e−01	−1.4413e+01	4.4593e+01	−3.9383e+00	1.3511e−01	−1.5770e+01	1.8662e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.01 1.01	0.95 0.68	0.40 0.09	0.02 0.00
^{149}Eu	$(np)^{149}$Sm	1.4740e+00	2.5	3.5	0.0100	0.01	8.4e−03	0

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−1.1332e+02	4.8475e−01	−5.8742e+01	1.8144e+02	−1.1133e+01	4.3047e−01	−6.4223e+01	−1.1361e+02
^{149}Eu	(nα)^{146}Pm	8.6550e+00	2.5	3.0	0.0100	0.01	1.8e−03	
	4.6945e+01	−4.6813e−01	3.4131e+01	−7.9422e+01	7.8450e+00	−5.7167e−01	3.0982e+01	4.5435e+01
	1.00 1.00	1.00 1.01	1.02 1.03	1.04 1.06	1.07 1.09	1.56 2.54	4.56 18.97	54.01 74.05
^{150}Eu	(nγ)^{151}Eu	7.9340e+00	0.0	2.5	0.0100	0.01	9.8e−04	
	5.6000e+00	2.5895e−02	−4.9891e+00	2.1760e+01	−2.4663e+00	7.5768e−02	−6.6269e+00	2.7504e+01
	1.01 1.07	1.13 1.19	1.24 1.28	1.31 1.34	1.36 1.38	1.30 0.78	0.42 0.11	0.02 0.00
^{150}Eu	(np)^{150}Sm	3.0430e+00	0.0	0.0	0.0100	0.01	1.2e−02	0
	8.0761e+01	−3.8357e−01	4.4110e+01	−1.2697e+02	1.2207e+01	−9.3282e−01	4.5318e+01	8.0761e+01
^{150}Eu	(nα)^{147}Pm	9.8980e+00	0.0	3.5	0.0100	0.01	1.4e−02	
	6.5335e+01	−3.9190e−01	4.2334e+01	−1.0480e+02	8.5118e+00	−5.0920e−01	4.1005e+01	6.1899e+01
	1.01 1.11	1.23 1.33	1.41 1.47	1.52 1.57	1.60 1.63	1.71 1.52	1.73 5.89	22.43 38.42
^{151}Eu	(nγ)^{152}Eu	6.3070e+00	2.5	3.0	0.0100	0.01	2.1e−03	
	1.2624e+01	3.5873e−02	−4.5076e+00	1.2197e+01	−7.4982e−01	−1.1854e−01	−4.7688e+00	3.6166e+01
	0.97 0.99	1.01 1.03	1.04 1.05	1.05 1.04	1.03 1.01	0.87 0.72	0.52 0.15	0.02 0.00
^{151}Eu	(np)^{151}Sm	7.0600e−01	2.5	2.5	0.0100	0.01	4.6e−02	0
	1.8077e+01	−1.7363e+00	1.5401e+02	−1.8656e+02	7.2323e+00	−4.7778e−01	1.1812e+02	1.8077e+01
^{151}Eu	(nα)^{148}Pm	7.8620e+00	2.5	1.0	0.0100	0.01	2.0e−03	0
	1.0886e+02	−1.2263e+00	8.7802e+01	−2.0905e+02	1.9820e+01	−1.5159e+00	8.0807e+01	1.0820e+02
^{152}Eu	(nγ)^{153}Eu	8.5500e+00	3.0	2.5	0.0100	0.01	2.8e−04	
	7.0381e+00	1.5925e−01	−1.5491e+01	3.0179e+01	−1.7625e+00	−3.9537e−02	−1.3710e+01	3.0888e+01
	1.00 1.00	0.97 0.91	0.86 0.82	0.80 0.78	0.77 0.76	0.66 0.53	0.38 0.13	0.03 0.01
^{152}Eu	(np)^{152}Sm	2.6560e+00	3.0	0.0	0.0100	0.01	9.4e−04	0
	5.4219e+01	−1.3127e−02	1.0836e+01	−6.8758e+01	1.0237e+01	−9.5690e−01	1.7603e+01	5.6165e+01
^{152}Eu	(nα)^{149}Pm	8.8240e+00	3.0	3.5	0.0100	0.01	6.3e−03	
	9.7490e+01	−4.4573e−01	5.0998e+01	−1.5563e+02	1.5771e+01	−1.2143e+00	5.4202e+01	9.6000e+01
	1.00 1.01	0.99 0.94	0.88 0.84	0.82 0.80	0.79 0.79	0.88 1.26	2.54 14.85	23.50 5.35
^{153}Eu	(nγ)^{154}Eu	6.4420e+00	2.5	3.0	0.0100	0.01	8.1e−03	
	1.4274e+00	2.4807e−01	−2.3685e+01	4.2970e+01	−1.6326e+00	−1.4379e−01	−2.0508e+01	2.4969e+01
	1.00 1.01	1.05 1.08	1.05 0.99	0.93 0.88	0.84 0.82	0.86 0.91	0.78 0.24	0.03 0.00
^{153}Eu	(nα)^{150}Pm	5.8760e+00	2.5	1.0	0.0100	0.01	2.8e−02	0
	1.7250e+00	3.7125e−01	−2.8446e+01	1.2868e+01	8.9395e+00	−1.0871e+00	−1.8558e+01	1.0615e+00
^{154}Eu	(nγ)^{155}Eu	8.1520e+00	3.0	2.5	0.0100	0.01	7.1e−04	
	3.1513e−01	1.9700e−01	−1.9662e+01	4.1491e+01	−2.5894e+00	3.0979e−03	−1.7936e+01	2.4165e+01
	1.00 1.00	0.97 0.92	0.87 0.84	0.81 0.80	0.79 0.78	0.76 0.66	0.47 0.15	0.03 0.00
^{154}Eu	(np)^{154}Sm	1.5000e+00	3.0	0.0	0.0100	0.01	7.0e−03	0
	−8.0850e+01	5.4461e−01	−5.6380e+01	1.3951e+02	−6.2973e+00	1.2187e−01	−5.5030e+01	−7.8904e+01
^{154}Eu	(nα)^{151}Pm	7.2980e+00	3.0	2.5	0.0100	0.01	2.0e−03	0
	9.2712e+01	−3.6794e−01	4.3564e+01	−1.5212e+02	1.8282e+01	−1.5396e+00	4.9290e+01	9.1510e+01
^{155}Eu	(nγ)^{156}Eu	6.3370e+00	2.5	0.0	0.0100	0.01	4.9e−03	
	5.7553e+00	1.4839e−01	−1.4823e+01	2.8877e+01	−1.0823e+00	−1.5725e−01	−1.3312e+01	3.1243e+01
	1.00 1.00	0.99 0.98	0.97 0.95	0.94 0.93	0.92 0.90	0.88 0.85	0.71 0.21	0.03 0.00
^{155}Eu	(nα)^{152}Pm	5.0860e+00	2.5	1.0	0.0100	0.01	5.3e−02	0
	−6.2589e+01	7.7243e−01	−7.1857e+01	1.1777e+02	3.9176e+00	−1.0355e+00	−6.0779e+01	−6.3253e+01
^{156}Eu	(nγ)^{157}Eu	7.4490e+00	0.0	2.5	0.0100	0.01	1.9e−03	
	6.1793e+00	1.3230e−01	−1.2913e+01	2.7220e+01	−1.6166e+00	−6.5534e−02	−1.1677e+01	2.8084e+01
	0.98 1.20	1.34 1.42	1.47 1.50	1.50 1.50	1.49 1.49	1.40 1.21	0.86 0.25	0.04 0.01
^{156}Eu	(np)^{156}Sm	6.0000e−02	0.0	0.0	0.0100	0.01	2.5e−03	0
	6.5884e+01	2.5120e+00	−1.1398e+02	2.5464e+01	8.7909e−01	−2.2228e−01	−2.5336e+01	6.5884e+01
^{156}Eu	(nα)^{153}Pm	6.2210e+00	0.0	2.5	0.0100	0.01	2.1e−02	0
	1.0899e+02	−2.2577e+00	1.1703e+02	−2.5240e+02	2.5744e+01	−2.1066e+00	9.9939e+01	1.0584e+02
^{157}Eu	(nγ)^{158}Eu	5.8150e+00	2.5	1.0	0.0100	0.01	4.7e−03	
	1.5593e+00	1.5298e−01	−1.5738e+01	3.4027e+01	−1.7988e+00	−9.3363e−02	−1.4650e+01	2.5949e+01
	1.00 1.00	0.99 0.98	0.97 0.96	0.95 0.94	0.93 0.92	0.89 0.86	0.68 0.18	0.03 0.00
^{157}Eu	(nα)^{154}Pm	4.5860e+00	2.5	1.0	0.0100	0.01	6.7e−02	0
	−1.3682e+02	−4.3968e−01	−5.6328e+01	1.8192e+02	−4.7190e+00	−2.5447e−01	−6.9172e+01	−1.3748e+02
^{158}Eu	(nγ)^{159}Eu	6.9140e+00	1.0	2.5	0.0100	0.01	6.5e−04	
	2.0024e+01	6.9327e−02	−4.9563e+00	4.6108e+00	−2.5021e−01	−1.2370e−01	−3.1448e+00	4.3027e+01
	1.44 1.86	2.09 2.16	2.12 2.06	1.97 1.89	1.80 1.73	1.11 0.71	0.42 0.11	0.02 0.00
^{158}Eu	(nα)^{155}Pm	5.8060e+00	1.0	2.5	0.0100	0.01	3.6e−02	0
	4.7921e+01	−1.6891e+00	6.9237e+01	−1.3843e+02	1.6955e+01	−1.4233e+00	5.4757e+01	4.5871e+01

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{159}Eu	$(n\gamma)^{160}$Eu	5.8580e+00	2.5	0.0	0.0100	0.01	4.2e−03	
	−1.0811e+01	2.2073e−01	−2.3425e+01	5.6037e+01	−3.8656e+00	6.7831e−02	−2.2607e+01	1.4678e+01
	1.00 1.00	0.99 0.97	0.97 0.96	0.95 0.94	0.93 0.92	0.92 0.90	0.65 0.14	0.02 0.00
^{159}Eu	$(n\alpha)^{156}$Pm	3.8060e+00	2.5	0.0	0.0100	0.01	4.6e−02	0
	−3.1304e+02	7.2730e−01	−1.6347e+02	4.7782e+02	−2.7944e+01	1.2342e+00	−1.7767e+02	−3.1261e+02
^{160}Eu	$(n\gamma)^{161}$Eu	6.5450e+00	0.0	2.5	0.0100	0.01	3.7e−04	
	2.4194e+00	3.4809e−01	−3.0621e+01	4.9306e+01	−2.5802e+00	−7.1329e−03	−2.4707e+01	2.4324e+01
	3.64 5.68	5.43 4.55	3.82 3.25	2.83 2.51	2.25 2.04	1.06 0.67	0.41 0.11	0.02 0.00
^{160}Eu	$(n\alpha)^{157}$Pm	4.7770e+00	0.0	2.5	0.0100	0.01	5.9e−02	0
	−9.3944e+01	−3.6100e−01	−4.8853e+01	1.2822e+02	1.5960e−01	−5.1569e−01	−5.5213e+01	−9.7093e+01
^{161}Eu	$(n\gamma)^{162}$Eu	4.9840e+00	2.5	2.0	0.0100	0.01	2.5e−03	
	2.5473e+01	−7.6124e−04	1.9389e+00	−1.0697e+01	1.0699e+00	−2.4139e−01	3.1629e+00	4.9352e+01
	1.12 1.30	1.45 1.56	1.62 1.64	1.64 1.61	1.58 1.54	1.11 0.78	0.51 0.12	0.02 0.00
^{161}Eu	$(n\alpha)^{158}$Pm	2.9390e+00	2.5	3.0	0.0100	0.01	2.6e−02	0
	−5.6584e+02	−3.1291e+00	−4.7753e+02	1.0753e+03	−6.6763e+01	3.6343e+00	−4.4312e+02	−5.6735e+02
^{162}Eu	$(n\gamma)^{163}$Eu	6.1580e+00	2.0	2.5	0.0100	0.01	1.5e−03	
	2.7190e+01	9.5949e−02	−5.4692e+00	−4.3539e+00	1.0232e+00	−2.2999e−01	−1.7488e+00	5.0705e+01
	1.34 1.84	2.15 2.23	2.16 2.05	1.92 1.79	1.68 1.58	0.94 0.62	0.39 0.11	0.02 0.00
^{162}Eu	$(n\alpha)^{159}$Pm	3.8050e+00	2.0	2.5	0.0100	0.01	7.2e−02	0
	−3.1350e+02	1.0937e+00	−1.8661e+02	5.0108e+02	−2.8732e+01	1.3486e+00	−1.9346e+02	−3.1504e+02
^{163}Eu	$(n\gamma)^{164}$Eu	4.6780e+00	2.5	1.0	0.0100	0.01	2.6e−03	0
	2.7212e+01	5.1425e−03	1.9514e+00	−1.3313e+01	1.3830e+00	−2.6396e−01	3.6757e+00	5.1602e+01
^{164}Eu	$(n\gamma)^{165}$Eu	5.7640e+00	1.0	2.5	0.0100	0.01	1.3e−03	0
	2.1325e+01	1.9970e−01	−1.4553e+01	1.0718e+01	1.9603e−01	−1.8529e−01	−9.1005e+00	4.4328e+01
^{165}Eu	$(n\gamma)^{166}$Eu	4.1560e+00	2.5	0.0	0.0100	0.01	2.7e−03	0
	2.7225e+01	3.5556e−02	−3.2651e−01	−1.2255e+01	1.6283e+00	−2.9490e−01	2.2805e+00	5.2713e+01
^{166}Eu	$(n\gamma)^{167}$Eu	5.1010e+00	0.0	2.5	0.0100	0.01	4.1e−04	0
	−4.4573e−01	4.4088e−01	−3.8078e+01	5.7794e+01	−2.7818e+00	−7.9931e−03	−3.0046e+01	2.1459e+01
^{167}Eu	$(n\gamma)^{168}$Eu	3.5720e+00	2.5	4.0	0.0100	0.01	2.8e−03	0
	1.9791e+01	9.3664e−02	−6.2610e+00	1.0199e+00	6.6863e−01	−2.3536e−01	−3.2571e+00	4.3082e+01
^{168}Eu	$(n\gamma)^{169}$Eu	4.6650e+00	4.0	2.5	0.0100	0.01	1.3e−03	0
	2.4834e+01	5.7149e−02	−2.8752e+00	−6.5734e+00	1.0007e+00	−2.2653e−01	−2.1707e−01	4.8936e+01
^{169}Eu	$(n\gamma)^{170}$Eu	3.3380e+00	2.5	2.0	0.0100	0.01	2.7e−03	0
	1.6377e+01	1.3377e−01	−1.0139e+01	8.7567e+00	4.2236e−02	−1.8995e−01	−6.6924e+00	4.0256e+01
^{170}Eu	$(n\gamma)^{171}$Eu	4.5490e+00	2.0	2.5	0.0100	0.01	1.2e−03	0
	1.0983e+01	2.8421e−01	−2.3720e+01	2.9434e+01	−8.8602e−01	−1.3318e−01	−1.7678e+01	3.4498e+01
^{171}Eu	$(n\gamma)^{172}$Eu	3.0870e+00	2.5	3.0	0.0100	0.01	3.2e−03	0
	1.1560e+01	1.8622e−01	−1.5269e+01	1.8619e+01	−4.9292e−01	−1.6848e−01	−1.1230e+01	3.5103e+01
^{172}Eu	$(n\gamma)^{173}$Eu	4.1990e+00	3.0	2.5	0.0100	0.01	1.2e−03	0
	1.4971e+01	2.0709e−01	−1.6790e+01	1.7548e+01	−3.0279e−01	−1.6341e−01	−1.1946e+01	3.8823e+01
^{173}Eu	$(n\gamma)^{174}$Eu	2.8300e+00	2.5	1.0	0.0100	0.01	3.2e−03	0
	6.7333e+00	2.2281e−01	−1.9117e+01	2.7470e+01	−1.1755e+00	−1.2396e−01	−1.4888e+01	3.1124e+01
^{174}Eu	$(n\gamma)^{175}$Eu	4.0130e+00	1.0	1.5	0.0100	0.01	4.7e−04	0
	−8.2597e+00	4.5450e−01	−4.1397e+01	6.7859e+01	−3.4484e+00	1.7497e−02	−3.4161e+01	1.5150e+01
^{175}Eu	$(n\gamma)^{176}$Eu	2.7570e+00	1.5	4.0	0.0100	0.01	2.9e−03	0
	4.6968e−02	3.2863e−01	−2.8766e+01	4.4642e+01	−2.2161e+00	−6.4005e−02	−2.2991e+01	2.2933e+01
^{176}Eu	$(n\gamma)^{177}$Eu	3.8960e+00	4.0	1.5	0.0100	0.01	1.1e−03	0
	1.3292e+01	2.0804e−01	−1.7353e+01	1.9297e+01	−3.9592e−01	−1.6478e−01	−1.2701e+01	3.7800e+01
^{177}Eu	$(n\gamma)^{178}$Eu	2.5430e+00	1.5	4.0	0.0100	0.01	3.1e−03	0
	−1.4034e+00	3.3069e−01	−2.9324e+01	4.5994e+01	−2.1834e+00	−7.6897e−02	−2.3661e+01	2.1483e+01
^{178}Eu	$(n\gamma)^{179}$Eu	3.5260e+00	4.0	1.5	0.0150	0.01	9.7e−04	0
	1.6199e+01	1.5805e−01	−1.2621e+01	1.0584e+01	5.7425e−02	−1.8762e−01	−8.6177e+00	4.0708e+01
^{179}Eu	$(n\gamma)^{180}$Eu	2.2030e+00	1.5	3.0	0.0100	0.01	3.0e−03	0
	−3.2052e+00	3.1717e−01	−2.8595e+01	4.6409e+01	−2.3070e+00	−6.6833e−02	−2.3440e+01	1.9933e+01
^{180}Eu	$(n\gamma)^{181}$Eu	3.4480e+00	3.0	1.5	0.0200	0.01	1.0e−03	0
	5.3923e+00	2.8105e−01	−2.4798e+01	3.3940e+01	−1.1950e+00	−1.2760e−01	−1.9440e+01	2.9649e+01
^{181}Eu	$(n\gamma)^{182}$Eu	1.6470e+00	1.5	4.0	0.0100	0.01	4.5e−03	0
	−5.6151e+00	3.0913e−01	−2.8492e+01	4.7309e+01	−2.1326e+00	−1.0084e−01	−2.3750e+01	1.7272e+01
^{182}Eu	$(n\gamma)^{183}$Eu	3.4940e+00	4.0	1.5	0.0400	0.01	9.8e−04	0
	−1.1384e+00	3.3299e−01	−3.0690e+01	4.6678e+01	−1.8210e+00	−1.0443e−01	−2.5125e+01	2.3370e+01
^{183}Eu	$(n\gamma)^{184}$Eu	2.2110e+00	1.5	2.0	0.0100	0.01	2.9e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−3.1047e+00	3.0018e−01	−2.7138e+01	4.4413e+01	−2.2581e+00	−6.8984e−02	−2.2317e+01	2.0370e+01
^{184}Eu	(nγ)^{185}Eu	3.2270e+00	2.0	1.5	0.0300	0.01	9.0e−04	0
	1.0827e+01	2.4857e−01	−2.0759e+01	2.3782e+01	−5.0607e−01	−1.7018e−01	−1.5274e+01	3.4748e+01
^{185}Eu	(nγ)^{186}Eu	2.3890e+00	1.5	6.0	0.0100	0.01	6.9e−04	0
	1.1202e+01	1.6020e−01	−1.2753e+01	1.4747e+01	−7.1307e−01	−1.2566e−01	−9.0914e+00	3.3721e+01
^{148}Gd	(nγ)^{149}Gd	6.9270e+00	0.0	3.5	0.0100	0.01	1.1e−02	
	−1.4712e+01	2.3194e−01	−2.5029e+01	6.1459e+01	−3.3563e+00	−4.0571e−02	−2.4515e+01	6.9047e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.05 1.19	1.18 0.32	0.04 0.01
^{148}Gd	(np)^{148}Eu	7.4200e−01	0.0	5.0	0.0100	0.01	3.5e−02	0
	−1.8232e+02	−1.4402e−01	−4.5338e+00	1.9761e+02	−2.2403e+01	1.5436e+00	−3.1314e+01	−1.8471e+02
^{148}Gd	(nα)^{145}Sm	1.0028e+01	0.0	3.5	0.0100	0.01	9.7e−03	
	3.4988e+01	−1.0058e+00	4.4760e+01	−7.6096e+01	7.5515e+00	−6.1096e−01	3.3753e+01	3.1553e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.26 2.68	6.13 15.08	26.24 35.35
^{149}Gd	(nγ)^{150}Gd	8.7080e+00	3.5	0.0	0.0100	0.01	5.1e−03	
	−2.5070e+01	2.9882e−01	−3.2568e+01	8.3093e+01	−6.1224e+00	2.2512e−01	−3.2270e+01	7.0560e−01
	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.98 0.97	0.93 0.87	0.60 0.11	0.02 0.00
^{149}Gd	(np)^{149}Eu	2.1020e+00	3.5	2.5	0.0100	0.01	1.2e−02	0
	−5.7068e+01	5.6255e−01	−5.5877e+01	1.1958e+02	−3.0872e+00	−2.4981e−01	−5.1817e+01	−5.6780e+01
^{149}Gd	(nα)^{146}Sm	1.1517e+01	3.5	0.0	0.0100	0.01	1.7e−03	
	1.4572e+01	−1.5934e−01	7.8033e+00	−1.0889e+01	8.3816e−01	−4.6364e−03	5.4539e+00	1.5296e+01
	1.00 1.00	1.00 1.00	1.01 1.01	1.02 1.02	1.03 1.04	1.13 1.29	1.43 2.11	4.66 8.28
^{150}Gd	(nγ)^{151}Gd	6.4980e+00	0.0	3.5	0.0100	0.01	8.7e−03	
	−1.4929e+01	2.1573e−01	−2.3576e+01	6.0771e+01	−3.8024e+00	4.6783e−03	−2.3484e+01	6.6877e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.08 1.22	1.04 0.24	0.03 0.00
^{150}Gd	(nα)^{147}Sm	9.1510e+00	0.0	3.5	0.0100	0.01	5.1e−03	0
	1.2807e+01	5.0197e−02	−2.3630e+00	−4.6486e+00	3.0290e+00	−3.0284e−01	−6.7921e−01	9.3715e+00
^{151}Gd	(nγ)^{152}Gd	8.5890e+00	3.5	0.0	0.0100	0.01	1.6e−03	
	−3.1229e+00	1.4069e−01	−1.5821e+01	4.1482e+01	−3.0036e+00	2.2153e−02	−1.5971e+01	2.2652e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.97 0.96	0.95 0.94	0.83 0.65	0.44 0.11	0.02 0.00
^{151}Gd	(np)^{151}Eu	1.2460e+00	3.5	2.5	0.0100	0.01	1.9e−02	0
	−1.6600e+02	5.4777e−01	−7.2483e+01	2.5099e+02	−1.7668e+01	8.5805e−01	−8.3806e+01	−1.6572e+02
^{151}Gd	(nα)^{148}Sm	1.0794e+01	3.5	0.0	0.0100	0.01	5.1e−03	
	5.2945e+01	−7.2263e−01	4.6956e+01	−9.4589e+01	7.1429e+00	−4.2194e−01	4.0072e+01	5.3668e+01
	1.00 1.00	1.00 1.00	1.01 1.01	1.01 1.02	1.03 1.03	1.09 1.20	1.43 3.44	10.13 15.71
^{152}Gd	(nγ)^{153}Gd	6.2470e+00	0.0	1.5	0.0100	0.01	6.4e−03	
	3.3116e+00	9.7659e−02	−1.0650e+01	2.7027e+01	−1.0045e+00	−1.9880e−01	−1.0588e+01	2.5621e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.02 1.03	1.15 1.26	1.16 0.37	0.04 0.00
^{152}Gd	(nα)^{149}Sm	8.0760e+00	0.0	3.5	0.0100	0.01	8.9e−04	0
	6.6452e+01	−5.2537e−01	4.4456e+01	−1.1787e+02	1.3436e+01	−1.1396e+00	4.3344e+01	6.3017e+01
^{153}Gd	(nγ)^{154}Gd	8.8950e+00	1.5	0.0	0.0100	0.01	3.6e−03	
	1.4647e+01	9.5543e−02	−8.9063e+00	1.3960e+01	7.3867e−02	−2.3418e−01	−7.4147e+00	3.9729e+01
	1.00 1.03	1.05 1.07	1.07 1.07	1.07 1.07	1.07 1.06	1.06 1.00	0.83 0.28	0.04 0.01
^{153}Gd	(np)^{153}Eu	1.2670e+00	1.5	2.5	0.0100	0.01	1.6e−02	0
	−1.0903e+02	4.2378e−01	−5.1607e+01	1.6517e+02	−9.5103e+00	3.4766e−01	−5.7166e+01	−1.0943e+02
^{153}Gd	(nα)^{150}Sm	9.8150e+00	1.5	0.0	0.0100	0.01	5.6e−03	
	9.0990e+01	−7.5718e−01	5.9485e+01	−1.5500e+02	1.4501e+01	−1.0499e+00	5.7318e+01	9.1020e+01
	1.00 0.98	0.91 0.82	0.74 0.68	0.63 0.60	0.57 0.55	0.54 0.69	1.12 5.12	15.68 15.22
^{154}Gd	(nγ)^{155}Gd	6.4350e+00	0.0	1.5	0.0100	0.01	7.2e−03	
	9.3868e+00	7.3660e−02	−7.6721e+00	1.7063e+01	3.9998e−02	−2.8624e−01	−7.2712e+00	3.1697e+01
	1.00 1.00	1.00 1.02	1.05 1.09	1.12 1.17	1.20 1.25	1.57 1.68	1.57 0.51	0.05 0.00
^{154}Gd	(nα)^{151}Sm	6.5160e+00	0.0	2.5	0.0100	0.01	7.8e−03	0
	5.0154e+01	−1.7743e−01	2.2873e+01	−8.7803e+01	1.4028e+01	−1.2992e+00	2.6931e+01	4.7005e+01
^{155}Gd	(nγ)^{156}Gd	8.5370e+00	1.5	0.0	0.0100	0.01	4.4e−03	
	1.3043e+01	1.0475e−01	−9.8213e+00	1.6378e+01	−1.0571e−01	−2.2554e−01	−8.3008e+00	3.8125e+01
	1.00 1.01	1.03 1.05	1.06 1.06	1.06 1.06	1.06 1.05	1.04 0.99	0.83 0.27	0.04 0.00
^{155}Gd	(np)^{155}Eu	5.3100e−01	1.5	2.5	0.0100	0.01	1.4e−03	0
	1.1994e+02	−1.8677e+00	1.9490e+02	−3.4566e+02	2.1205e+01	−1.4456e+00	1.7380e+02	1.1953e+02
^{155}Gd	(nα)^{152}Sm	8.3390e+00	1.5	0.0	0.0100	0.01	8.1e−04	
	1.1669e+02	−1.4555e+00	9.5798e+01	−2.2691e+02	2.1048e+01	−1.5692e+00	8.7373e+01	1.1672e+02
	1.00 1.00	0.97 0.91	0.85 0.80	0.76 0.73	0.71 0.69	0.75 1.27	3.09 19.34	53.74 28.33
^{156}Gd	(nγ)^{157}Gd	6.3600e+00	0.0	1.5	0.0100	0.01	9.0e−03	

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	3.2978e+00	1.4593e−01	−1.4288e+01	3.0380e+01	−9.3353e−01	−2.2106e−01	−1.3007e+01	2.5608e+01
	1.00 1.03	1.10 1.18	1.25 1.31	1.35 1.40	1.44 1.48	1.80 1.90	1.68 0.47	0.05 0.00
^{156}Gd	$(\mathrm{n}\alpha)^{153}$Sm	5.6700e+00	0.0	1.5	0.0100	0.01	3.5e−02	0
	1.0326e+01	−3.3684e−01	5.2661e+00	−3.3919e+01	1.2297e+01	−1.4271e+00	5.9800e+00	7.5821e+00
^{157}Gd	$(\mathrm{n}\gamma)^{158}$Gd	7.9370e+00	1.5	0.0	0.0100	0.01	4.3e−03	
	5.0250e+00	1.2251e−01	−1.2962e+01	2.7860e+01	−1.1445e+00	−1.5244e−01	−1.2195e+01	3.0107e+01
	1.00 0.98	0.97 0.98	0.99 1.01	1.02 1.03	1.04 1.04	1.05 0.99	0.83 0.24	0.03 0.00
^{157}Gd	$(\mathrm{n}\alpha)^{154}$Sm	7.2770e+00	1.5	0.0	0.0100	0.01	6.6e−03	0
	1.1189e+02	−1.1793e+00	8.2811e+01	−2.1502e+02	2.2621e+01	−1.8439e+00	7.8752e+01	1.1192e+02
^{158}Gd	$(\mathrm{n}\gamma)^{159}$Gd	5.9430e+00	0.0	1.5	0.0100	0.01	7.9e−03	
	6.2853e−01	1.6607e−01	−1.6303e+01	3.4712e+01	−1.2933e+00	−1.9330e−01	−1.4846e+01	2.2939e+01
	1.00 1.01	1.04 1.09	1.16 1.21	1.27 1.32	1.38 1.43	1.82 1.93	1.66 0.46	0.05 0.00
^{158}Gd	$(\mathrm{n}\alpha)^{155}$Sm	5.1470e+00	0.0	1.5	0.0100	0.01	4.2e−02	0
	−5.4551e+01	3.6455e−01	−5.0647e+01	8.9303e+01	4.2659e+00	−9.3359e−01	−4.4884e+01	−5.7295e+01
^{159}Gd	$(\mathrm{n}\gamma)^{160}$Gd	7.4510e+00	1.5	0.0	0.0100	0.01	4.9e−03	
	−7.7645e+00	2.5037e−01	−2.5490e+01	5.3787e+01	−2.7537e+00	−6.4285e−02	−2.3477e+01	1.7318e+01
	1.00 1.02	1.01 0.99	0.97 0.96	0.95 0.95	0.95 0.96	1.08 1.14	0.98 0.28	0.04 0.00
^{159}Gd	$(\mathrm{n}\alpha)^{156}$Sm	6.4460e+00	1.5	0.0	0.0100	0.01	1.8e−02	0
	6.2782e+01	−4.9741e−01	3.1340e+01	−1.1485e+02	1.7416e+01	−1.6045e+00	3.4293e+01	6.2811e+01
^{160}Gd	$(\mathrm{n}\gamma)^{161}$Gd	5.6350e+00	0.0	2.5	0.0100	0.01	8.6e−03	
	−9.9944e−01	2.0281e−01	−1.9374e+01	3.9165e+01	−1.4806e+00	−1.8763e−01	−1.7205e+01	2.0905e+01
	1.00 1.05	1.13 1.20	1.27 1.34	1.39 1.45	1.51 1.56	1.94 2.00	1.66 0.41	0.04 0.00
^{160}Gd	$(\mathrm{n}\alpha)^{157}$Sm	4.4660e+00	0.0	1.5	0.0100	0.01	4.6e−02	0
	−2.0119e+02	1.4232e+00	−1.5150e+02	3.4747e+02	−1.5270e+01	3.7963e−01	−1.4386e+02	−2.0393e+02
^{161}Gd	$(\mathrm{n}\gamma)^{162}$Gd	6.8460e+00	2.5	0.0	0.0100	0.01	2.7e−03	
	−1.3015e+00	1.4967e−01	−1.5819e+01	3.6725e+01	−2.3543e+00	−3.6067e−02	−1.5132e+01	2.4187e+01
	1.00 1.00	0.99 0.98	0.97 0.97	0.96 0.96	0.96 0.95	0.90 0.79	0.57 0.14	0.02 0.00
^{161}Gd	$(\mathrm{n}\alpha)^{158}$Sm	5.7300e+00	2.5	0.0	0.0100	0.01	3.4e−02	0
	−1.9171e+01	1.8685e−01	−2.9027e+01	3.2775e+01	6.3297e+00	−8.1544e−01	−2.3306e+01	−1.8738e+01
^{162}Gd	$(\mathrm{n}\gamma)^{163}$Gd	5.0950e+00	0.0	2.5	0.0100	0.01	1.2e−02	
	−4.4522e+00	2.6102e−01	−2.4596e+01	4.6775e+01	−1.5532e+00	−2.1280e−01	−2.1391e+01	1.7453e+01
	1.00 1.03	1.08 1.14	1.20 1.27	1.33 1.41	1.47 1.53	2.03 2.30	2.17 0.56	0.05 0.00
^{162}Gd	$(\mathrm{n}\alpha)^{159}$Sm	3.7470e+00	0.0	2.5	0.0100	0.01	4.2e−02	0
	−3.5582e+02	2.0723e+00	−2.3396e+02	5.9492e+02	−3.4954e+01	1.6513e+00	−2.3199e+02	−3.5897e+02
^{163}Gd	$(\mathrm{n}\gamma)^{164}$Gd	6.7120e+00	2.5	0.0	0.0100	0.01	2.8e−03	
	2.0096e+01	−3.0997e−03	9.9193e−01	−3.5985e+00	3.9140e−01	−2.0262e−01	1.3104e+00	4.5584e+01
	1.07 1.18	1.29 1.38	1.45 1.50	1.52 1.53	1.52 1.51	1.20 0.88	0.58 0.13	0.02 0.00
^{163}Gd	$(\mathrm{n}\alpha)^{160}$Sm	5.0600e+00	2.5	0.0	0.0100	0.01	8.6e−02	0
	−1.1201e+02	1.1378e+00	−1.1046e+02	2.0907e+02	−3.8296e+00	−3.3064e−01	−9.7324e+01	−1.1158e+02
^{164}Gd	$(\mathrm{n}\gamma)^{165}$Gd	4.7600e+00	0.0	3.5	0.0100	0.01	3.9e−03	
	5.9037e+00	1.9192e−02	−3.0665e+00	1.4372e+01	−8.9414e−01	−1.6061e−01	−4.0728e+00	2.7521e+01
	1.00 1.00	1.00 1.02	1.07 1.17	1.28 1.41	1.52 1.63	1.92 1.61	1.16 0.29	0.03 0.00
^{164}Gd	$(\mathrm{n}\alpha)^{161}$Sm	2.8470e+00	0.0	0.5	0.0100	0.01	2.1e−02	0
	−5.5873e+02	−5.4307e+00	−5.2465e+02	1.1166e+03	−6.6965e+01	3.5505e+00	−4.7260e+02	−5.6078e+02
^{165}Gd	$(\mathrm{n}\gamma)^{166}$Gd	6.2350e+00	3.5	0.0	0.0100	0.01	2.7e−03	0
	1.3355e+01	3.8459e−02	−3.6197e+00	7.7105e+00	−3.8782e−01	−1.5800e−01	−3.2390e+00	3.9131e+01
^{166}Gd	$(\mathrm{n}\gamma)^{167}$Gd	4.2810e+00	0.0	2.5	0.0100	0.01	4.5e−03	0
	1.2948e+01	−3.7751e−02	2.9479e+00	−4.1999e−01	1.7404e−01	−2.2645e−01	1.7592e+00	3.4853e+01
^{167}Gd	$(\mathrm{n}\gamma)^{168}$Gd	5.6220e+00	2.5	0.0	0.0200	0.01	2.9e−03	0
	1.5396e+01	3.1942e−02	−2.2907e+00	3.3201e+00	−1.4160e−01	−1.6894e−01	−1.5952e+00	4.0884e+01
^{168}Gd	$(\mathrm{n}\gamma)^{169}$Gd	3.6790e+00	0.0	3.5	0.0100	0.01	5.6e−03	0
	1.4672e+01	−6.9849e−02	5.9454e+00	−6.0736e+00	4.5433e−01	−2.4166e−01	4.3443e+00	3.6289e+01
^{169}Gd	$(\mathrm{n}\gamma)^{170}$Gd	5.3820e+00	3.5	0.0	0.0300	0.01	3.3e−03	0
	1.8813e+01	5.7573e−02	−3.8030e+00	2.8300e−01	5.0310e−01	−2.2769e−01	−1.9261e+00	4.4590e+01
^{170}Gd	$(\mathrm{n}\gamma)^{171}$Gd	3.4790e+00	0.0	4.5	0.0100	0.01	6.3e−03	0
	7.2696e+00	−2.8548e−02	1.2717e+00	6.2963e+00	−5.3780e−01	−1.8080e−01	−3.8839e−01	2.8664e+01
^{171}Gd	$(\mathrm{n}\gamma)^{172}$Gd	5.0530e+00	4.5	0.0	0.0450	0.01	3.8e−03	0
	5.1217e+00	1.1921e−01	−1.1375e+01	2.2667e+01	−1.3598e+00	−1.0755e−01	−1.0044e+01	3.1121e+01
^{172}Gd	$(\mathrm{n}\gamma)^{173}$Gd	3.1640e+00	0.0	0.5	0.0100	0.01	4.5e−03	0
	−3.0678e+01	3.3155e−01	−3.4914e+01	8.3547e+01	−5.3965e+00	8.6041e−02	−3.3593e+01	−7.6742e+00
^{173}Gd	$(\mathrm{n}\gamma)^{174}$Gd	4.7050e+00	0.5	0.0	0.0700	0.01	4.9e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	8.1854e+00	2.9463e−01	−2.3637e+01	3.1873e+01	−1.4105e+00	−1.2083e−01	−1.7435e+01	3.2576e+01
^{174}Gd	(nγ)^{175}Gd	2.8850e+00	0.0	1.5	0.0100	0.01	1.1e−02	0
	2.8841e+01	−1.8142e−01	1.7987e+01	−3.5383e+01	2.4580e+00	−3.7794e−01	1.6068e+01	5.1152e+01
^{175}Gd	(nγ)^{176}Gd	4.4820e+00	1.5	0.0	0.1050	0.01	4.9e−03	0
	8.3919e+00	1.9563e−01	−1.5978e+01	2.3293e+01	−1.2125e+00	−1.2433e−01	−1.2111e+01	3.3475e+01
^{176}Gd	(nγ)^{177}Gd	2.7800e+00	0.0	5.5	0.0100	0.01	5.3e−03	0
	−2.9462e+01	2.4236e−01	−2.7333e+01	7.4185e+01	−5.4294e+00	1.1284e−01	−2.7863e+01	−8.2495e+00
^{177}Gd	(nγ)^{178}Gd	4.3110e+00	5.5	0.0	0.1250	0.01	4.6e−03	0
	−1.0223e+01	2.0998e−01	−2.1404e+01	4.8639e+01	−3.4622e+00	2.2046e−02	−2.0058e+01	1.5959e+01
^{178}Gd	(nγ)^{179}Gd	2.5290e+00	0.0	3.5	0.0150	0.01	9.1e−03	0
	1.8590e+00	−3.3126e−02	9.1957e−01	1.0829e+01	−1.2229e+00	−1.3727e−01	−1.4152e+00	2.3477e+01
^{179}Gd	(nγ)^{180}Gd	3.9370e+00	3.5	0.0	0.2050	0.01	4.3e−03	0
	−1.0859e+01	2.1747e−01	−2.1757e+01	4.9327e+01	−3.6848e+00	4.7777e−02	−2.0213e+01	1.4918e+01
^{180}Gd	(nγ)^{181}Gd	2.2520e+00	0.0	4.5	0.0250	0.01	9.4e−03	0
	1.5723e+00	−1.0502e−01	6.7473e+00	4.7424e+00	−1.3828e+00	−9.9310e−02	2.7404e+00	2.2967e+01
^{181}Gd	(nγ)^{182}Gd	3.7630e+00	4.5	0.0	0.3400	0.01	4.5e−03	0
	−1.6759e+01	2.4438e−01	−2.5102e+01	5.8370e+01	−4.3418e+00	8.5753e−02	−2.3727e+01	9.2416e+00
^{182}Gd	(nγ)^{183}Gd	1.7440e+00	0.0	0.5	0.0450	0.01	3.5e−03	0
	−5.0165e+01	2.7994e−01	−3.4016e+01	1.0255e+02	−8.4627e+00	3.4628e−01	−3.6557e+01	−2.7160e+01
^{183}Gd	(nγ)^{184}Gd	3.9250e+00	0.5	0.0	0.5800	0.01	4.7e−03	0
	−1.2088e+01	4.6938e−01	−4.2613e+01	7.0853e+01	−3.4863e+00	−3.4372e−02	−3.5233e+01	1.2303e+01
^{184}Gd	(nγ)^{185}Gd	2.1920e+00	0.0	0.5	0.0300	0.01	5.3e−03	0
	−3.0973e+01	1.8837e−01	−2.3116e+01	7.0298e+01	−5.7151e+00	1.5457e−01	−2.4984e+01	−7.9682e+00
^{185}Gd	(nγ)^{186}Gd	3.6180e+00	0.5	0.0	0.4250	0.01	4.1e−03	0
	−4.1293e+00	3.1279e−01	−2.7392e+01	4.7094e+01	−2.9500e+00	−1.2662e−02	−2.2364e+01	2.0262e+01
^{186}Gd	(nγ)^{187}Gd	2.3540e+00	0.0	1.5	0.0500	0.01	3.8e−03	0
	−5.2538e+01	4.0506e−01	−4.4422e+01	1.1581e+02	−8.8748e+00	3.6337e−01	−4.4347e+01	−3.0227e+01
^{187}Gd	(nγ)^{188}Gd	3.7170e+00	1.5	0.0	0.4700	0.01	1.3e−03	0
	−5.3333e+01	3.6667e−01	−4.1893e+01	1.1553e+02	−9.5182e+00	4.6764e−01	−4.3052e+01	−2.8249e+01
^{150}Tb	(np)^{150}Gd	5.4380e+00	2.0	0.0	0.0100	0.01	1.7e−03	
	2.7500e+01	−4.1903e−02	7.0182e+00	−2.0684e+01	1.7237e+00	−9.4835e−02	7.4771e+00	2.9110e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.98	0.82 0.66	0.58 0.53	0.65 0.60
^{150}Tb	(nα)^{147}Eu	1.2086e+01	2.0	2.5	0.0100	0.01	7.0e−03	0
	−2.4863e+01	2.9286e−01	−3.1423e+01	7.5204e+01	−5.2318e+00	3.4574e−01	−3.0138e+01	−2.6402e+01
^{151}Tb	(np)^{151}Gd	3.3480e+00	0.5	3.5	0.0100	0.01	3.8e−03	
	3.1969e+01	−1.7322e−02	6.5058e+00	−3.2037e+01	5.0755e+00	−5.0598e−01	8.9984e+00	3.0583e+01
	1.12 1.43	1.56 1.59	1.57 1.54	1.49 1.45	1.41 1.37	1.31 1.51	1.72 3.32	3.98 2.00
^{151}Tb	(nα)^{148}Eu	1.0253e+01	0.5	5.0	0.0100	0.01	1.7e−03	0
	2.4668e+01	−7.5743e−02	8.6518e+00	−2.4156e+01	3.0100e+00	−2.3378e−01	8.7781e+00	2.1607e+01
^{152}Tb	(np)^{152}Gd	4.7720e+00	2.0	0.0	0.0100	0.01	1.4e−02	
	3.7602e+01	−1.3246e−01	1.6445e+01	−4.2888e+01	3.2550e+00	−2.0750e−01	1.6476e+01	3.9211e+01
	1.00 1.00	1.00 1.00	0.99 0.99	0.97 0.96	0.93 0.90	0.69 0.55	0.32 0.27	0.32 0.20
^{152}Tb	(nα)^{149}Eu	1.1375e+01	2.0	2.5	0.0100	0.01	4.6e−03	0
	−2.1950e+01	1.8695e−01	−2.2623e+01	6.3010e+01	−5.4343e+00	4.6127e−01	−2.3227e+01	−2.3489e+01
^{153}Tb	(nγ)^{154}Tb	6.9040e+00	2.5	1.0	0.0100	0.01	1.8e−03	
	7.1673e−01	1.5378e−01	−1.5976e+01	3.7880e+01	−2.5323e+00	−1.2948e−02	−1.5256e+01	2.5106e+01
	1.00 1.00	1.01 1.01	1.01 1.01	1.01 1.01	1.00 1.00	0.92 0.76	0.54 0.14	0.02 0.00
^{153}Tb	(np)^{153}Gd	2.3530e+00	2.5	1.5	0.0100	0.01	7.7e−04	0
	1.9816e+01	7.9216e−03	2.9041e+00	−2.1161e+01	5.5273e+00	−6.3481e−01	4.9182e+00	2.0222e+01
^{153}Tb	(nα)^{150}Eu	9.1250e+00	2.5	0.0	0.0100	0.01	1.6e−03	0
	6.7429e+01	−3.1834e−01	3.5774e+01	−1.0498e+02	1.0922e+01	−8.0125e−01	3.7289e+01	6.7864e+01
^{154}Tb	(nγ)^{155}Tb	9.1760e+00	1.0	1.5	0.0100	0.01	2.4e−04	
	−1.6653e+01	4.8165e−01	−4.5838e+01	8.8200e+01	−5.2981e+00	1.6536e−01	−4.0004e+01	6.7558e+00
	3.60 5.05	4.19 3.29	2.71 2.32	2.06 1.86	1.72 1.60	1.02 0.72	0.48 0.15	0.03 0.01
^{154}Tb	(np)^{154}Gd	4.3440e+00	1.0	0.0	0.0100	0.01	1.9e−02	0
	2.6685e+01	1.0994e−01	−5.1537e+00	−1.2603e+01	2.7286e+00	−1.9630e−01	−6.0748e−01	2.7784e+01
^{154}Tb	(nα)^{151}Eu	1.0155e+01	1.0	2.5	0.0100	0.01	9.3e−03	
	3.2187e+01	−1.2114e−01	4.5812e+00	−3.0004e+01	4.0569e+00	−2.3040e−01	7.0079e+00	3.0137e+01
	2.59 3.55	2.99 2.35	1.94 1.67	1.49 1.36	1.26 1.18	0.91 0.98	1.35 5.33	26.50 70.40
^{155}Tb	(nγ)^{156}Tb	6.9130e+00	1.5	3.0	0.0100	0.01	4.7e−03	
	5.6304e+00	1.4325e−01	−1.4184e+01	2.9728e+01	−1.3436e+00	−1.3573e−01	−1.2903e+01	2.8767e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.01	1.02 1.04	1.04 1.05	1.05 1.04	1.04 1.03	0.98 0.93	0.77 0.22	0.03 0.00
^{155}Tb	(np)^{155}Gd	1.6030e+00	1.5	1.5	0.0100	0.01	2.4e−03	0
	−5.3921e+01	2.3771e−01	−2.7712e+01	8.3893e+01	−2.3030e+00	−2.2104e−01	−3.0169e+01	−5.3921e+01
^{155}Tb	(nα)^{152}Eu	7.2860e+00	1.5	3.0	0.0100	0.01	5.5e−03	0
	8.4672e+01	−3.6654e−01	4.3399e+01	−1.4259e+02	1.7658e+01	−1.5304e+00	4.7576e+01	8.2756e+01
^{156}Tb	(nγ)^{157}Tb	8.7440e+00	3.0	1.5	0.0100	0.01	2.2e−04	
	7.8955e+00	1.2207e−01	−1.1941e+01	2.6189e+01	−1.7949e+00	−2.9040e−02	−1.0891e+01	3.2151e+01
	1.01 1.02	1.00 0.98	0.97 0.96	0.95 0.94	0.93 0.92	0.77 0.60	0.40 0.12	0.03 0.00
^{156}Tb	(np)^{156}Gd	3.2260e+00	3.0	0.0	0.0100	0.01	9.4e−03	0
	5.8352e+01	−1.9325e−01	2.5314e+01	−8.4857e+01	9.8235e+00	−8.3097e−01	2.7991e+01	6.0298e+01
^{156}Tb	(nα)^{153}Eu	8.9220e+00	3.0	2.5	0.0100	0.01	4.2e−03	0
	5.8312e+01	−3.2434e−01	3.3081e+01	−9.3106e+01	8.8078e+00	−5.3284e−01	3.3833e+01	5.7109e+01
^{157}Tb	(nγ)^{158}Tb	6.7780e+00	1.5	3.0	0.0100	0.01	4.1e−03	
	2.0297e+00	1.4016e−01	−1.4559e+01	3.3919e+01	−1.9456e+00	−8.2779e−02	−1.3856e+01	2.5166e+01
	1.00 1.00	1.01 1.02	1.03 1.04	1.05 1.06	1.06 1.06	1.01 0.93	0.72 0.19	0.02 0.00
^{157}Tb	(np)^{157}Gd	8.4300e−01	1.5	1.5	0.0100	0.01	3.4e−02	0
	−4.2632e+01	−9.1183e−01	7.3429e+01	−3.8851e+01	1.0145e−01	−1.8392e−01	4.7552e+01	−4.2632e+01
^{157}Tb	(nα)^{154}Eu	6.6210e+00	1.5	3.0	0.0100	0.01	7.1e−03	0
	6.9538e+01	−5.8619e−01	4.3921e+01	−1.3161e+02	1.7523e+01	−1.5512e+00	4.4587e+01	6.7621e+01
^{158}Tb	(nγ)^{159}Tb	8.1340e+00	3.0	1.5	0.0100	0.01	3.8e−04	
	6.3048e+00	1.1641e−01	−1.1732e+01	2.7393e+01	−2.0187e+00	−1.4346e−02	−1.1012e+01	3.0561e+01
	1.00 0.99	0.99 0.99	0.98 0.98	0.97 0.96	0.95 0.94	0.81 0.61	0.40 0.11	0.02 0.00
^{158}Tb	(np)^{158}Gd	2.0020e+00	3.0	0.0	0.0100	0.01	7.3e−04	0
	4.6222e+00	8.9090e−02	−5.4411e+00	−3.1102e+00	5.2454e+00	−6.9144e−01	−2.8495e+00	6.5681e+00
^{158}Tb	(nα)^{155}Eu	7.9950e+00	3.0	2.5	0.0100	0.01	4.5e−03	0
	9.6867e+01	−5.2329e−01	5.7408e+01	−1.6663e+02	1.6923e+01	−1.2684e+00	5.9580e+01	9.5663e+01
^{159}Tb	(nγ)^{160}Tb	6.3750e+00	1.5	3.0	0.0100	0.01	4.4e−03	
	2.0610e−01	1.3013e−01	−1.4369e+01	3.5261e+01	−2.1359e+00	−6.6770e−02	−1.4179e+01	2.3343e+01
	1.00 0.97	0.95 0.94	0.95 0.97	0.97 0.98	0.99 0.98	0.96 0.92	0.71 0.18	0.02 0.00
^{159}Tb	(nα)^{156}Eu	6.1980e+00	1.5	0.0	0.0100	0.01	1.9e−02	0
	3.5941e+01	6.5787e−02	2.2815e+00	−5.6667e+01	1.4067e+01	−1.4782e+00	1.0046e+01	3.5969e+01
^{160}Tb	(nγ)^{161}Tb	7.6970e+00	3.0	1.5	0.0100	0.01	1.3e−03	
	6.6311e−01	1.9711e−01	−1.9329e+01	4.0477e+01	−2.5118e+00	−1.0796e−02	−1.7469e+01	2.4919e+01
	1.00 1.00	0.99 0.96	0.92 0.89	0.87 0.85	0.83 0.82	0.77 0.67	0.48 0.14	0.02 0.00
^{160}Tb	(np)^{160}Gd	8.8800e−01	3.0	0.0	0.0100	0.01	2.6e−02	0
	−8.8765e+01	−1.6931e−01	7.4656e+00	7.6906e+01	−7.1671e+00	3.5983e−01	−6.9737e+00	−8.6819e+01
^{160}Tb	(nα)^{157}Eu	7.2720e+00	3.0	2.5	0.0100	0.01	2.7e−03	0
	1.1101e+02	−9.0512e−01	7.2193e+01	−2.0362e+02	2.2163e+01	−1.8099e+00	7.2258e+01	1.0981e+02
^{161}Tb	(nγ)^{162}Tb	6.2840e+00	1.5	1.0	0.0100	0.01	2.6e−03	
	−1.9591e+00	1.3449e−01	−1.4904e+01	3.7862e+01	−2.5831e+00	−1.9518e−02	−1.4848e+01	2.2025e+01
	1.00 0.99	1.00 1.02	1.03 1.04	1.06 1.06	1.08 1.09	1.05 0.92	0.67 0.16	0.02 0.00
^{161}Tb	(nα)^{158}Eu	5.3900e+00	1.5	1.0	0.0100	0.01	2.9e−02	0
	−4.7503e+01	4.4041e−01	−4.7956e+01	7.9950e+01	4.2712e+00	−8.4118e−01	−4.1517e+01	−4.8573e+01
^{162}Tb	(nγ)^{163}Tb	6.9920e+00	1.0	1.5	0.0100	0.01	4.1e−04	
	−4.6934e+00	1.2283e−01	−1.4480e+01	4.1117e+01	−3.3571e+00	7.5021e−02	−1.5160e+01	1.8715e+01
	1.00 1.02	1.03 1.06	1.07 1.10	1.11 1.12	1.13 1.14	1.11 0.88	0.56 0.13	0.02 0.00
^{162}Tb	(nα)^{159}Eu	6.0200e+00	1.0	2.5	0.0100	0.01	9.2e−03	0
	4.1640e+01	−1.7809e−01	1.6827e+01	−7.9314e+01	1.4543e+01	−1.3416e+00	2.1578e+01	3.9588e+01
^{163}Tb	(nγ)^{164}Tb	5.5530e+00	1.5	5.0	0.0100	0.01	3.6e−03	
	−1.8887e+01	2.5009e−01	−2.7176e+01	6.8478e+01	−4.9770e+00	1.4119e−01	−2.6809e+01	3.7980e+00
	1.00 0.99	0.99 0.99	1.00 1.01	1.03 1.04	1.06 1.07	1.17 1.14	0.81 0.16	0.02 0.00
^{163}Tb	(nα)^{160}Eu	4.8860e+00	1.5	0.0	0.0100	0.01	4.5e−02	0
	−1.3763e+02	1.1223e+00	−1.1384e+02	2.4188e+02	−6.7385e+00	−2.6087e−01	−1.0514e+02	−1.3760e+02
^{164}Tb	(nγ)^{165}Tb	6.7780e+00	5.0	1.5	0.0100	0.01	8.7e−04	
	2.4389e+01	1.6660e−02	−2.7883e−01	−5.5268e+00	6.3341e−01	−1.9449e−01	9.1207e−01	4.9098e+01
	1.13 1.25	1.32 1.35	1.34 1.30	1.27 1.21	1.17 1.11	0.74 0.49	0.31 0.08	0.01 0.00
^{164}Tb	(nα)^{161}Eu	5.6770e+00	5.0	2.5	0.0100	0.01	3.2e−02	0
	1.3750e+01	2.4100e−01	−1.6400e+01	−1.7622e+01	1.1207e+01	−1.1664e+00	−6.6798e+00	1.2998e+01
^{165}Tb	(nγ)^{166}Tb	5.2670e+00	1.5	4.0	0.0100	0.01	2.8e−03	
	2.5337e+01	2.7444e−02	−1.1673e−01	−7.8379e+00	8.8911e−01	−2.3368e−01	1.7389e+00	4.8223e+01
	1.19 1.50	1.76 1.91	1.98 1.99	1.96 1.92	1.86 1.80	1.23 0.83	0.52 0.12	0.02 0.00

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{165}Tb	(nα)^{162}Eu	3.8830e+00	1.5	2.0	0.0100	0.01	5.8e−02	0
	−3.3723e+02	2.1359e+00	−2.3102e+02	5.7249e+02	−3.2959e+01	1.5457e+00	−2.2645e+02	−3.3882e+02
^{166}Tb	(nγ)^{167}Tb	6.3800e+00	4.0	1.5	0.0100	0.01	9.9e−04	
	2.6871e+01	1.5561e−02	4.8963e−01	−9.6634e+00	1.0091e+00	−2.1941e−01	2.1284e+00	5.1379e+01
	1.14 1.30	1.42 1.48	1.46 1.43	1.38 1.31	1.26 1.21	0.79 0.53	0.33 0.09	0.02 0.00
^{166}Tb	(nα)^{163}Eu	4.7740e+00	4.0	2.5	0.0100	0.01	5.5e−02	0
	−1.2581e+02	1.1287e+00	−1.1227e+02	2.2542e+02	−5.6084e+00	−1.8946e−01	−1.0122e+02	−1.2677e+02
^{167}Tb	(nγ)^{168}Tb	4.7800e+00	1.5	3.0	0.0100	0.01	3.1e−03	0
	3.0348e+01	1.9718e−02	1.6297e+00	−1.6160e+01	1.7747e+00	−3.0287e−01	4.1872e+00	5.3485e+01
^{168}Tb	(nγ)^{169}Tb	5.7620e+00	3.0	1.5	0.0100	0.01	9.3e−04	0
	2.6915e+01	3.3943e−02	−7.0715e−01	−9.2241e+00	1.0228e+00	−2.2024e−01	1.5057e+00	5.1171e+01
^{169}Tb	(nγ)^{170}Tb	4.2620e+00	1.5	2.0	0.0100	0.01	3.3e−03	0
	2.7920e+01	6.5900e−02	−2.3201e+00	−1.0197e+01	1.4594e+00	−2.8551e−01	1.0905e+00	5.1394e+01
^{170}Tb	(nγ)^{171}Tb	5.4780e+00	2.0	1.5	0.0100	0.01	1.4e−03	0
	2.1151e+01	1.7508e−01	−1.2930e+01	8.8628e+00	3.4018e−01	−2.0441e−01	−8.1158e+00	4.5071e+01
^{171}Tb	(nγ)^{172}Tb	3.9670e+00	1.5	3.0	0.0100	0.01	3.5e−03	0
	2.3465e+01	1.1758e−01	−7.2358e+00	−7.4902e−01	8.6906e−01	−2.5382e−01	−3.1986e+00	4.6602e+01
^{172}Tb	(nγ)^{173}Tb	5.1220e+00	3.0	1.5	0.0100	0.01	1.5e−03	0
	2.4098e+01	1.1583e−01	−7.7087e+00	−1.5478e−01	8.1255e−01	−2.2937e−01	−3.8347e+00	4.8354e+01
^{173}Tb	(nγ)^{174}Tb	3.6490e+00	1.5	2.0	0.0100	0.01	3.5e−03	0
	1.6656e+01	1.9611e−01	−1.4762e+01	1.3830e+01	−5.6495e−02	−2.0037e−01	−9.7992e+00	4.0130e+01
^{174}Tb	(nγ)^{175}Tb	4.7400e+00	2.0	1.5	0.0100	0.01	1.4e−03	0
	1.6945e+01	2.1617e−01	−1.6932e+01	1.6624e+01	−2.0141e−01	−1.7249e−01	−1.1650e+01	4.0865e+01
^{175}Tb	(nγ)^{176}Tb	3.3070e+00	1.5	0.0	0.0100	0.01	3.4e−03	0
	1.2288e+01	2.3350e−01	−1.8599e+01	2.1996e+01	−6.1169e−01	−1.6861e−01	−1.3344e+01	3.7371e+01
^{176}Tb	(nγ)^{177}Tb	4.4320e+00	0.0	2.5	0.0100	0.01	2.1e−04	0
	−1.9728e+01	5.3796e−01	−5.0743e+01	9.1246e+01	−5.1703e+00	1.2839e−01	−4.3437e+01	2.1776e+00
^{177}Tb	(nγ)^{178}Tb	3.3170e+00	2.5	6.0	0.0100	0.01	2.5e−03	0
	1.0968e+01	1.8924e−01	−1.5647e+01	2.0440e+01	−8.6181e−01	−1.3431e−01	−1.1703e+01	3.3892e+01
^{178}Tb	(nγ)^{179}Tb	4.2960e+00	6.0	2.5	0.0100	0.01	9.2e−04	0
	2.2128e+01	6.7094e−02	−4.3033e+00	−2.4923e+00	6.1809e−01	−2.1149e−01	−1.7955e+00	4.6599e+01
^{179}Tb	(nγ)^{180}Tb	3.0060e+00	2.5	1.0	0.0100	0.01	2.9e−03	0
	8.5870e+00	2.0680e−01	−1.7438e+01	2.4130e+01	−9.9477e−01	−1.3938e−01	−1.3346e+01	3.2978e+01
^{180}Tb	(nγ)^{181}Tb	3.9340e+00	1.0	2.5	0.0100	0.01	6.7e−04	0
	2.5764e+00	3.8193e−01	−3.2814e+01	4.7474e+01	−2.1738e+00	−6.1375e−02	−2.5578e+01	2.5581e+01
^{181}Tb	(nγ)^{182}Tb	2.6240e+00	2.5	5.0	0.0100	0.01	3.0e−03	0
	4.3858e+00	2.3088e−01	−2.0131e+01	3.0612e+01	−1.4528e+00	−1.1254e−01	−1.5996e+01	2.7477e+01
^{182}Tb	(nγ)^{183}Tb	3.7420e+00	5.0	2.5	0.0100	0.01	1.0e−03	0
	1.7205e+01	1.4348e−01	−1.1368e+01	8.4331e+00	2.3308e−01	−2.0448e−01	−7.6078e+00	4.1508e+01
^{183}Tb	(nγ)^{184}Tb	2.2450e+00	2.5	1.0	0.0100	0.01	3.0e−03	0
	4.0817e−01	2.4792e−01	−2.2171e+01	3.6589e+01	−1.9742e+00	−7.7997e−02	−1.8159e+01	2.4799e+01
^{184}Tb	(nγ)^{185}Tb	3.9650e+00	1.0	1.5	0.0150	0.01	2.6e−04	0
	−2.1705e+01	5.2226e−01	−5.0385e+01	9.0795e+01	−4.8411e+00	8.0713e−02	−4.3633e+01	1.7053e+00
^{185}Tb	(nγ)^{186}Tb	2.6250e+00	1.5	5.0	0.0100	0.01	3.1e−03	0
	−8.6224e−01	3.2029e−01	−2.8139e+01	4.4268e+01	−2.2085e+00	−7.5385e−02	−2.2599e+01	2.1824e+01
^{186}Tb	(nγ)^{187}Tb	3.6070e+00	5.0	4.5	0.0150	0.01	8.0e−04	0
	2.1284e+01	8.0447e−02	−5.3796e+00	−2.3243e+00	7.8519e−01	−2.3304e−01	−2.4590e+00	4.5077e+01
^{187}Tb	(nγ)^{188}Tb	2.6490e+00	4.5	3.0	0.0100	0.01	7.5e−04	0
	3.6765e+00	1.1388e−01	−1.0940e+01	2.1974e+01	−1.7161e+00	−5.3584e−02	−9.6852e+00	2.7731e+01
^{188}Tb	(nγ)^{189}Tb	3.7170e+00	3.0	0.5	0.0150	0.01	6.8e−04	0
	2.8628e+01	8.2419e−02	−3.8790e+00	−1.2073e+01	1.8215e+00	−3.0690e−01	2.5278e−01	5.3579e+01
^{189}Tb	(nγ)^{190}Tb	2.7080e+00	0.5	5.0	0.0100	0.01	7.9e−04	0
	1.3718e+01	2.3832e−01	−1.8285e+01	1.8334e+01	−4.3150e−01	−1.6431e−01	−1.2415e+01	3.5711e+01
^{152}Dy	(np)^{152}Tb	1.3810e+00	0.0	2.0	0.0100	0.01	2.6e−02	0
	−1.5013e+02	4.6899e−01	−6.3268e+01	2.2384e+02	−1.4574e+01	6.5350e−01	−7.4150e+01	−1.5173e+02
^{152}Dy	(nα)^{149}Gd	1.0654e+01	0.0	3.5	0.0100	0.01	8.2e−03	0
	3.4357e+01	−5.0609e−01	2.6860e+01	−5.4786e+01	6.2191e+00	−5.2818e−01	2.2238e+01	3.0921e+01
^{153}Dy	(np)^{153}Tb	2.9530e+00	3.5	2.5	0.0100	0.01	1.5e−04	
	2.0902e+00	1.1200e−01	−9.0779e+00	1.5680e+01	8.4370e−01	−1.2717e−01	−7.7814e+00	2.3779e+00
	1.00 1.00	1.01 1.02	1.04 1.06	1.08 1.11	1.14 1.17	1.75 2.85	4.75 11.72	22.29 36.01
^{153}Dy	(nα)^{150}Gd	1.2267e+01	3.5	0.0	0.0100	0.01	8.3e−04	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	2.3070e+01	−8.9644e−02	8.9416e+00	−1.9526e+01	1.2825e+00	5.1076e−04	8.2128e+00	2.3793e+01
^{154}Dy	(nγ)^{155}Dy	6.8360e+00	0.0	1.5	0.0100	0.01	6.2e−03	
	−6.2045e−01	1.2282e−01	−1.3746e+01	3.5370e+01	−1.5549e+00	−1.6689e−01	−1.3830e+01	2.1689e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.03 1.04	1.19 1.28	1.16 0.36	0.04 0.00
^{154}Dy	(np)^{154}Tb	5.3700e−01	0.0	1.0	0.0100	0.01	8.6e−03	0
	1.4211e+02	−2.4090e+00	2.4672e+02	−4.1571e+02	2.1234e+01	−1.1898e+00	2.1616e+02	1.4101e+02
^{154}Dy	(nα)^{151}Gd	9.4450e+00	0.0	3.5	0.0100	0.01	3.6e−04	0
	6.5742e+01	−1.3665e+00	7.5327e+01	−1.4283e+02	1.2427e+01	−9.0722e−01	6.1511e+01	6.2306e+01
^{155}Dy	(nγ)^{156}Dy	9.4410e+00	1.5	0.0	0.0100	0.01	2.6e−03	
	3.5250e+00	1.5895e−01	−1.5804e+01	3.4374e+01	−1.9287e+00	−7.6183e−02	−1.4513e+01	2.8607e+01
	1.00 1.03	1.05 1.07	1.08 1.08	1.09 1.09	1.09 1.09	1.07 0.96	0.74 0.20	0.03 0.00
^{155}Dy	(np)^{155}Tb	2.8760e+00	1.5	1.5	0.0100	0.01	1.5e−03	0
	6.4385e+01	−1.5540e−01	2.3637e+01	−9.0211e+01	1.1722e+01	−1.0871e+00	2.8141e+01	6.4385e+01
^{155}Dy	(nα)^{152}Gd	1.1198e+01	1.5	0.0	0.0100	0.01	4.6e−03	
	5.8941e+01	−2.3742e−01	2.7030e+01	−8.2072e+01	8.1362e+00	−6.1832e−01	2.8621e+01	5.8971e+01
	1.00 0.99	0.94 0.89	0.84 0.80	0.76 0.72	0.70 0.68	0.65 0.72	0.87 1.87	3.29 2.27
^{156}Dy	(nγ)^{157}Dy	6.9690e+00	0.0	1.5	0.0100	0.01	8.5e−03	
	1.1898e+01	4.9233e−02	−5.3277e+00	1.2663e+01	3.0821e−01	−3.0366e−01	−5.2316e+00	3.4208e+01
	1.00 1.01	1.03 1.07	1.13 1.17	1.21 1.24	1.27 1.30	1.50 1.56	1.40 0.44	0.04 0.00
^{156}Dy	(np)^{156}Tb	3.4800e−01	0.0	3.0	0.0100	0.01	7.3e−03	0
	1.3720e+02	−4.5651e−01	1.1141e+02	−2.7693e+02	1.7313e+01	−1.1679e+00	1.3175e+02	1.3525e+02
^{156}Dy	(nα)^{153}Gd	8.0040e+00	0.0	1.5	0.0100	0.01	1.7e−03	0
	9.9468e+01	−1.9002e+00	1.1043e+02	−2.2218e+02	1.9633e+01	−1.4568e+00	9.3098e+01	9.6725e+01
^{157}Dy	(nγ)^{158}Dy	9.0560e+00	1.5	0.0	0.0100	0.01	4.7e−03	
	1.0546e+01	1.2411e−01	−1.1654e+01	2.1744e+01	−5.7671e−01	−1.9686e−01	−1.0082e+01	3.5629e+01
	1.00 1.01	1.03 1.04	1.06 1.07	1.07 1.07	1.06 1.05	1.01 0.96	0.80 0.24	0.03 0.00
^{157}Dy	(np)^{157}Tb	2.1240e+00	1.5	1.5	0.0100	0.01	5.7e−03	0
	2.7683e+01	1.2063e−01	−4.3690e+00	−2.8635e+01	9.4212e+00	−1.1116e+00	2.1061e+00	2.7683e+01
^{157}Dy	(nα)^{154}Gd	9.9310e+00	1.5	0.0	0.0100	0.01	2.8e−03	
	8.4033e+01	−4.1453e−01	4.5373e+01	−1.3279e+02	1.3060e+01	−9.9967e−01	4.7293e+01	8.4061e+01
	1.00 1.00	1.00 0.99	0.96 0.92	0.89 0.85	0.82 0.80	0.77 0.97	1.48 4.71	8.84 5.43
^{158}Dy	(nγ)^{159}Dy	6.8320e+00	0.0	1.5	0.0100	0.01	1.4e−02	
	5.6379e+00	1.6713e−01	−1.5627e+01	2.9810e+01	−6.0241e−01	−2.6178e−01	−1.3589e+01	2.7948e+01
	1.00 1.06	1.21 1.32	1.38 1.41	1.40 1.40	1.40 1.39	1.56 1.70	1.51 0.39	0.04 0.00
^{158}Dy	(nα)^{155}Gd	7.3100e+00	0.0	1.5	0.0100	0.01	6.3e−03	0
	5.9981e+01	−1.5772e−01	2.3921e+01	−9.5820e+01	1.3862e+01	−1.2196e+00	2.9295e+01	5.7237e+01
^{159}Dy	(nγ)^{160}Dy	8.5760e+00	1.5	0.0	0.0100	0.01	5.6e−03	
	6.2992e+00	1.4399e−01	−1.4038e+01	2.8404e+01	−1.1135e+00	−1.6404e−01	−1.2582e+01	3.1382e+01
	1.00 1.00	1.01 1.02	1.03 1.03	1.03 1.03	1.03 1.02	0.98 0.94	0.77 0.22	0.03 0.00
^{159}Dy	(np)^{159}Tb	1.1480e+00	1.5	1.5	0.0100	0.01	7.5e−03	0
	−1.0776e+02	2.8491e−01	−3.9329e+01	1.4757e+02	−7.5268e+00	5.4816e−02	−4.7475e+01	−1.0776e+02
^{159}Dy	(nα)^{156}Gd	9.0150e+00	1.5	0.0	0.0100	0.01	2.9e−03	
	1.0986e+02	−9.2762e−01	7.7223e+01	−1.9751e+02	1.8203e+01	−1.3260e+00	7.4487e+01	1.0989e+02
	1.00 0.99	0.99 0.98	0.97 0.96	0.94 0.92	0.90 0.88	0.87 1.21	2.35 12.71	41.40 36.11
^{160}Dy	(nγ)^{161}Dy	6.4550e+00	0.0	2.5	0.0100	0.01	9.6e−03	
	2.6769e+00	1.3076e−01	−1.3327e+01	3.0414e+01	−1.0491e+00	−2.1527e−01	−1.2557e+01	2.4582e+01
	1.00 1.01	1.07 1.15	1.21 1.28	1.33 1.38	1.42 1.46	1.73 1.80	1.56 0.40	0.04 0.00
^{160}Dy	(nα)^{157}Gd	6.7990e+00	0.0	1.5	0.0100	0.01	1.5e−02	0
	7.7096e+01	−3.6029e−01	3.8671e+01	−1.3491e+02	1.8716e+01	−1.7269e+00	4.3415e+01	7.4352e+01
^{161}Dy	(nγ)^{162}Dy	8.1970e+00	2.5	0.0	0.0100	0.01	5.3e−03	
	−2.6472e−02	2.0973e−01	−2.0680e+01	4.1462e+01	−1.8213e+00	−1.3072e−01	−1.8572e+01	2.5462e+01
	1.01 1.02	1.01 0.99	0.97 0.96	0.96 0.95	0.95 0.95	0.95 0.92	0.77 0.22	0.03 0.00
^{161}Dy	(np)^{161}Tb	1.8900e−01	2.5	1.5	0.0100	0.01	8.2e−04	0
	9.7640e+01	1.4665e+00	−2.5483e+01	−1.0128e+02	9.7746e+00	−8.7726e−01	3.7368e+01	9.8045e+01
^{161}Dy	(nα)^{158}Gd	8.2820e+00	2.5	0.0	0.0100	0.01	6.6e−04	0
	1.3694e+02	−2.2510e+00	1.3461e+02	−2.9039e+02	2.5359e+01	−1.8387e+00	1.1705e+02	1.3738e+02
^{162}Dy	(nγ)^{163}Dy	6.2710e+00	0.0	2.5	0.0100	0.01	9.1e−03	
	4.8383e−01	1.6249e−01	−1.6098e+01	3.5249e+01	−1.3668e+00	−1.9358e−01	−1.4823e+01	2.2389e+01
	1.00 1.03	1.12 1.20	1.26 1.32	1.37 1.42	1.47 1.51	1.83 1.88	1.59 0.41	0.04 0.00
^{162}Dy	(nα)^{159}Gd	6.0280e+00	0.0	1.5	0.0100	0.01	3.7e−02	0
	5.6870e+01	−1.3176e+00	6.1052e+01	−1.4157e+02	1.9613e+01	−1.8677e+00	5.2390e+01	5.4125e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{163}Dy	$(n\gamma)^{164}$Dy	7.6580e+00	2.5	0.0	0.0100	0.01	5.7e−03	
	9.6459e+00	1.0888e−01	−1.0717e+01	2.0365e+01	−5.7813e−01	−1.9393e−01	−9.5177e+00	3.5134e+01
	1.00 1.00	0.99 0.99	0.99 0.98	0.97 0.95	0.94 0.93	0.82 0.77	0.63 0.18	0.02 0.00
^{163}Dy	$(n\alpha)^{160}$Gd	7.2080e+00	2.5	0.0	0.0100	0.01	5.5e−03	0
	1.3213e+02	−1.9659e+00	1.2156e+02	−2.7857e+02	2.6760e+01	−2.0648e+00	1.0855e+02	1.3257e+02
^{164}Dy	$(n\gamma)^{165}$Dy	5.7160e+00	0.0	3.5	0.0100	0.01	9.5e−03	
	2.4605e+00	1.8007e−01	−1.6972e+01	3.2768e+01	−8.6949e−01	−2.4046e−01	−1.4831e+01	2.4078e+01
	1.00 1.05	1.14 1.21	1.28 1.34	1.40 1.46	1.51 1.56	1.92 2.00	1.76 0.47	0.04 0.00
^{164}Dy	$(n\alpha)^{161}$Gd	5.1860e+00	0.0	2.5	0.0100	0.01	5.7e−02	0
	−4.1784e+01	−2.7726e−01	−2.4169e+01	4.5258e+01	7.9823e+00	−1.2025e+00	−2.5019e+01	−4.4934e+01
^{165}Dy	$(n\gamma)^{166}$Dy	7.0430e+00	3.5	0.0	0.0100	0.01	6.8e−03	
	1.0377e+01	1.4163e−01	−1.3073e+01	2.0597e+01	−2.1180e−01	−2.3412e−01	−1.0829e+01	3.6153e+01
	1.00 1.00	0.98 0.96	0.93 0.90	0.87 0.84	0.82 0.80	0.71 0.69	0.59 0.17	0.02 0.00
^{165}Dy	$(n\alpha)^{162}$Gd	6.3150e+00	3.5	0.0	0.0100	0.01	2.1e−02	0
	9.3477e+01	−1.3282e+00	7.6625e+01	−1.9796e+02	2.3669e+01	−2.0293e+00	7.1080e+01	9.4198e+01
^{166}Dy	$(n\gamma)^{167}$Dy	5.4200e+00	0.0	0.5	0.0100	0.01	7.9e−03	
	3.6393e+00	1.8022e−01	−1.6721e+01	3.0454e+01	−5.1200e−01	−2.7284e−01	−1.4315e+01	2.6643e+01
	1.00 1.03	1.10 1.16	1.23 1.28	1.35 1.41	1.47 1.53	1.98 2.14	1.91 0.56	0.05 0.00
^{166}Dy	$(n\alpha)^{163}$Gd	4.4710e+00	0.0	2.5	0.0100	0.01	5.5e−02	0
	−1.9937e+02	8.7325e−01	−1.3025e+02	3.2188e+02	−1.3635e+01	2.6235e−01	−1.2968e+02	−2.0252e+02
^{167}Dy	$(n\gamma)^{168}$Dy	6.9070e+00	0.5	0.0	0.0100	0.01	3.4e−03	
	2.3775e+01	4.3111e−02	−1.3242e+00	−4.6973e+00	6.5700e−01	−2.2905e−01	7.1670e−01	4.8165e+01
	1.34 1.77	2.10 2.31	2.42 2.45	2.43 2.38	2.32 2.25	1.55 1.05	0.65 0.14	0.02 0.00
^{167}Dy	$(n\alpha)^{164}$Gd	5.7630e+00	0.5	0.0	0.0100	0.01	7.7e−02	0
	−1.0382e+01	−2.8637e−01	−1.4689e+01	4.2865e+00	1.0147e+01	−1.1600e+00	−1.2852e+01	−1.1048e+01
^{168}Dy	$(n\gamma)^{169}$Dy	4.9330e+00	0.0	2.5	0.0100	0.01	3.4e−03	
	−3.3243e+00	9.5376e−02	−1.1000e+01	3.2745e+01	−2.1225e+00	−9.2609e−02	−1.1609e+01	1.8581e+01
	1.00 1.00	0.99 0.99	1.01 1.06	1.13 1.22	1.31 1.40	1.72 1.49	1.09 0.26	0.02 0.00
^{168}Dy	$(n\alpha)^{165}$Gd	3.6150e+00	0.0	3.5	0.0100	0.01	1.6e−02	0
	−4.3841e+02	−6.1275e−01	−3.6088e+02	8.1690e+02	−4.7996e+01	2.4211e+00	−3.3708e+02	−4.4185e+02
^{169}Dy	$(n\gamma)^{170}$Dy	6.2660e+00	2.5	0.0	0.0100	0.01	2.7e−03	0
	1.0144e+01	3.8123e−02	−4.1195e+00	1.2135e+01	−9.3741e−01	−1.1788e−01	−4.2478e+00	3.5633e+01
^{170}Dy	$(n\gamma)^{171}$Dy	4.3990e+00	0.0	3.5	0.0100	0.01	4.3e−03	0
	4.3807e+00	1.6644e−02	−3.1062e+00	1.5684e+01	−1.0704e+00	−1.5136e−01	−4.3499e+00	2.5998e+01
^{171}Dy	$(n\gamma)^{172}$Dy	6.0040e+00	3.5	0.0	0.0150	0.01	3.1e−03	0
	1.6347e+01	3.3009e−02	−2.5487e+00	3.0161e+00	6.1213e−02	−1.9582e−01	−1.8062e+00	4.2124e+01
^{172}Dy	$(n\gamma)^{173}$Dy	4.0990e+00	0.0	4.5	0.0100	0.01	5.1e−03	0
	4.4960e+00	3.3707e−03	−1.9473e+00	1.3949e+01	−1.0480e+00	−1.5084e−01	−3.4281e+00	2.5890e+01
^{173}Dy	$(n\gamma)^{174}$Dy	5.6740e+00	4.5	0.0	0.0200	0.01	3.2e−03	0
	1.1256e+01	6.8109e−02	−6.3339e+00	1.1837e+01	−5.6143e−01	−1.5971e−01	−5.4533e+00	3.7256e+01
^{174}Dy	$(n\gamma)^{175}$Dy	3.7120e+00	0.0	0.5	0.0100	0.01	5.9e−03	0
	6.7269e+00	−1.9881e−02	3.8579e−01	8.3481e+00	−6.3732e−01	−1.8118e−01	−1.2271e+00	2.9731e+01
^{175}Dy	$(n\gamma)^{176}$Dy	5.2500e+00	0.5	0.0	0.0300	0.01	5.2e−03	0
	2.1377e+01	1.7549e−01	−1.1547e+01	5.9009e+00	4.0786e−01	−2.3594e−01	−6.3001e+00	4.5768e+01
^{176}Dy	$(n\gamma)^{177}$Dy	3.4100e+00	0.0	1.5	0.0100	0.01	6.3e−03	0
	1.3801e+00	2.2834e−02	−3.9391e+00	1.8103e+01	−1.3688e+00	−1.3732e−01	−5.2586e+00	2.3691e+01
^{177}Dy	$(n\gamma)^{178}$Dy	4.9820e+00	1.5	0.0	0.0450	0.01	4.8e−03	0
	1.6301e+01	1.2536e−01	−8.9421e+00	8.2571e+00	−1.1649e−01	−1.9601e−01	−5.6742e+00	4.1384e+01
^{178}Dy	$(n\gamma)^{179}$Dy	3.2370e+00	0.0	5.5	0.0100	0.01	1.2e−02	0
	−3.2687e+01	4.3898e−01	−4.3750e+01	9.4170e+01	−5.2840e+00	2.1128e−02	−4.0114e+01	−1.1475e+01
^{179}Dy	$(n\gamma)^{180}$Dy	4.7570e+00	5.5	0.0	0.0600	0.01	4.3e−03	0
	−3.4893e+00	1.6864e−01	−1.6949e+01	3.7502e+01	−2.5207e+00	−4.4327e−02	−1.5693e+01	2.2693e+01
^{180}Dy	$(n\gamma)^{181}$Dy	3.0020e+00	0.0	3.5	0.0100	0.01	9.0e−03	0
	1.3204e+01	−1.0327e−01	8.6495e+00	−8.3415e+00	2.3068e−01	−2.3136e−01	6.2108e+00	3.4822e+01
^{181}Dy	$(n\gamma)^{182}$Dy	4.3800e+00	3.5	0.0	0.0950	0.01	4.0e−03	0
	−5.9470e+00	1.7858e−01	−1.7872e+01	4.0921e+01	−3.0652e+00	4.5849e−03	−1.6651e+01	1.9830e+01
^{182}Dy	$(n\gamma)^{183}$Dy	2.6200e+00	0.0	4.5	0.0150	0.01	5.0e−03	0
	−2.9179e+01	2.0048e−01	−2.3839e+01	7.0272e+01	−5.4862e+00	1.2922e−01	−2.5296e+01	−7.7843e+00
^{183}Dy	$(n\gamma)^{184}$Dy	4.1590e+00	4.5	0.0	0.1600	0.01	4.1e−03	0
	−9.4801e+00	2.0235e−01	−2.0508e+01	4.6575e+01	−3.3957e+00	2.1388e−02	−1.9168e+01	1.6520e+01
^{184}Dy	$(n\gamma)^{185}$Dy	2.3010e+00	0.0	0.5	0.0200	0.01	5.2e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−5.6196e+01	4.3749e−01	−4.7891e+01	1.2422e+02	−9.2081e+00	3.5135e−01	−4.7723e+01	−3.3191e+01
^{185}Dy	$(n\gamma)^{186}$Dy	4.4140e+00	0.5	0.0	0.2200	0.01	4.8e−03	0
	−6.9601e+00	4.6546e−01	−4.0878e+01	6.4691e+01	−3.0598e+00	−6.2009e−02	−3.2864e+01	1.7431e+01
^{186}Dy	$(n\gamma)^{187}$Dy	2.5880e+00	0.0	0.5	0.0150	0.01	5.3e−03	0
	−3.8441e+01	3.1487e−01	−3.4741e+01	9.0915e+01	−6.6109e+00	1.7843e−01	−3.4804e+01	−1.5436e+01
^{187}Dy	$(n\gamma)^{188}$Dy	4.0120e+00	0.5	0.0	0.2150	0.01	4.5e−03	0
	1.2944e+00	2.7338e−01	−2.2984e+01	3.7700e+01	−2.3803e+00	−4.7284e−02	−1.8153e+01	2.5685e+01
^{188}Dy	$(n\gamma)^{189}$Dy	2.6740e+00	0.0	1.5	0.0250	0.01	3.3e−03	0
	−5.6953e+01	4.4234e−01	−4.8290e+01	1.2560e+02	−9.5683e+00	4.0047e−01	−4.8099e+01	−3.4642e+01
^{189}Dy	$(n\gamma)^{190}$Dy	4.1010e+00	1.5	0.0	0.2450	0.01	1.2e−03	0
	−1.6152e+01	1.6874e−01	−1.9740e+01	5.6865e+01	−5.4500e+00	2.1500e−01	−2.0675e+01	8.9318e+00
^{190}Dy	$(n\gamma)^{191}$Dy	2.7840e+00	0.0	0.5	0.0350	0.01	4.4e−02	0
	1.5362e+02	−9.4870e−01	1.0182e+02	−2.6391e+02	2.2016e+01	−1.7377e+00	1.0064e+02	1.7663e+02
^{191}Dy	$(n\gamma)^{192}$Dy	3.7510e+00	0.5	0.0	0.4650	0.01	8.7e−04	0
	−3.8308e+01	2.5317e−01	−3.0268e+01	8.5588e+01	−6.9015e+00	2.8244e−01	−3.1795e+01	−1.3917e+01
^{160}Ho	$(np)^{160}$Dy	4.0740e+00	5.0	0.0	0.0100	0.01	4.8e−03	
	7.4193e+01	−2.6107e−01	3.5727e+01	−1.0991e+02	1.0719e+01	−8.3986e−01	3.9214e+01	7.6591e+01
	1.01 1.18	1.48 1.70	1.80 1.80	1.75 1.69	1.60 1.53	1.11 1.22	1.31 2.79	4.65 2.72
^{160}Ho	$(n\alpha)^{157}$Tb	1.0030e+01	5.0	1.5	0.0100	0.01	7.7e−03	0
	4.4519e+01	−2.7517e−01	2.5648e+01	−6.7375e+01	6.1712e+00	−3.6432e−01	2.5477e+01	4.4173e+01
^{161}Ho	$(np)^{161}$Dy	1.6420e+00	3.5	2.5	0.0100	0.01	1.8e−03	
	−4.9378e+01	2.4739e−01	−2.7306e+01	7.6878e+01	−1.1325e+00	−3.3523e−01	−2.8642e+01	−4.9091e+01
	1.00 1.01	1.02 1.07	1.16 1.32	1.52 1.76	2.03 2.34	6.20 13.12	27.11 71.03	43.02 9.44
^{161}Ho	$(n\alpha)^{158}$Tb	7.9210e+00	3.5	3.0	0.0100	0.01	4.5e−03	0
	9.7043e+01	−4.8230e−01	5.2943e+01	−1.6472e+02	1.8866e+01	−1.5766e+00	5.6583e+01	9.5819e+01
^{162}Ho	$(np)^{162}$Dy	2.9220e+00	1.0	0.0	0.0100	0.01	2.6e−03	
	2.9647e+01	3.2480e−02	3.2545e+00	−3.3198e+01	6.5352e+00	−6.8004e−01	7.4990e+00	3.0745e+01
	0.99 0.97	0.91 0.85	0.79 0.74	0.70 0.67	0.64 0.62	0.56 0.88	1.24 3.20	4.84 2.53
^{162}Ho	$(n\alpha)^{159}$Tb	9.1380e+00	1.0	1.5	0.0100	0.01	6.9e−03	0
	4.4586e+01	−2.3606e−01	2.3699e+01	−6.8994e+01	7.2580e+00	−4.7095e−01	2.4574e+01	4.2940e+01
^{163}Ho	$(n\gamma)^{164}$Ho	6.6740e+00	3.5	1.0	0.0100	0.01	3.5e−03	
	4.6701e−03	1.6120e−01	−1.6390e+01	3.8237e+01	−2.4394e+00	−4.2352e−02	−1.5458e+01	2.4682e+01
	1.00 1.00	1.00 0.99	0.99 0.98	0.98 0.97	0.97 0.96	0.85 0.72	0.52 0.12	0.02 0.00
^{163}Ho	$(np)^{163}$Dy	7.8500e−01	3.5	2.5	0.0100	0.01	2.0e−02	0
	2.1830e+00	−1.1961e+00	1.0973e+02	−1.2792e+02	6.3020e+00	−5.6957e−01	8.5047e+01	2.4707e+00
^{163}Ho	$(n\alpha)^{160}$Tb	7.1050e+00	3.5	3.0	0.0100	0.01	4.1e−03	0
	8.7135e+01	−8.8997e−01	6.3177e+01	−1.6878e+02	1.9303e+01	−1.5789e+00	6.0985e+01	8.5910e+01
^{164}Ho	$(n\gamma)^{165}$Ho	7.9890e+00	1.0	3.5	0.0100	0.01	2.8e−04	
	4.9922e+00	7.4222e−02	−8.3193e+00	2.5382e+01	−2.3222e+00	1.7586e−02	−8.7441e+00	2.7708e+01
	0.99 1.01	1.05 1.10	1.15 1.18	1.20 1.21	1.22 1.21	1.05 0.75	0.44 0.10	0.02 0.00
^{164}Ho	$(np)^{164}$Dy	1.7690e+00	1.0	0.0	0.0100	0.01	5.8e−03	0
	−4.6791e+01	3.8335e−01	−3.7056e+01	8.2633e+01	−1.2821e+00	−2.6914e−01	−3.4508e+01	−4.5693e+01
^{164}Ho	$(n\alpha)^{161}$Tb	8.1280e+00	1.0	1.5	0.0100	0.01	2.8e−03	0
	1.0544e+02	−5.6519e−01	6.1948e+01	−1.8207e+02	1.8684e+01	−1.4121e+00	6.4698e+01	1.0379e+02
^{165}Ho	$(n\gamma)^{166}$Ho	6.2440e+00	3.5	0.0	0.0100	0.01	3.9e−03	
	−1.0014e+01	2.0691e−01	−2.2162e+01	5.4593e+01	−3.7472e+00	4.1774e−02	−2.1626e+01	1.5762e+01
	1.00 0.99	0.99 0.98	0.98 0.97	0.97 0.96	0.95 0.95	0.90 0.79	0.56 0.12	0.01 0.00
^{165}Ho	$(n\alpha)^{162}$Tb	6.4240e+00	3.5	1.0	0.0100	0.01	3.7e−02	0
	1.8582e+01	1.9722e−01	−1.1755e+01	−2.3551e+01	1.1077e+01	−1.1598e+00	−3.1199e+00	1.8204e+01
^{166}Ho	$(n\gamma)^{167}$Ho	7.2840e+00	0.0	3.5	0.0100	0.01	3.9e−04	
	−4.7567e+00	3.6268e−01	−3.2692e+01	6.0644e+01	−3.8576e+00	8.0539e−02	−2.7552e+01	1.6861e+01
	2.45 4.08	4.25 3.87	3.41 3.04	2.76 2.52	2.34 2.18	1.31 0.83	0.48 0.11	0.02 0.00
^{166}Ho	$(np)^{166}$Dy	2.9600e−01	0.0	0.0	0.0100	0.01	3.3e−03	0
	8.7313e+01	1.6154e−01	5.6249e+01	−1.7012e+02	8.5122e+00	−3.7254e−01	8.5335e+01	8.7313e+01
^{166}Ho	$(n\alpha)^{163}$Tb	7.1720e+00	0.0	1.5	0.0100	0.01	7.1e−04	0
	1.3574e+02	−1.9165e+00	1.1763e+02	−2.7879e+02	2.7059e+01	−2.0278e+00	1.0686e+02	1.3300e+02
^{167}Ho	$(n\gamma)^{168}$Ho	5.8640e+00	3.5	3.0	0.0100	0.01	3.2e−03	
	−8.0859e+00	1.9102e−01	−2.0398e+01	5.0040e+01	−3.4885e+00	3.4710e−02	−1.9861e+01	1.5744e+01
	1.00 1.00	1.00 0.99	0.99 0.98	0.97 0.97	0.96 0.95	0.90 0.77	0.53 0.11	0.01 0.00
^{167}Ho	$(n\alpha)^{164}$Tb	5.4410e+00	3.5	5.0	0.0100	0.01	5.9e−02	0
	−5.4762e+01	−4.4997e−01	−2.0911e+01	6.0338e+01	4.3622e+00	−7.7709e−01	−2.6830e+01	−5.6439e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{168}Ho	$(n\gamma)^{169}$Ho	6.7930e+00	3.0	3.5	0.0100	0.01	4.6e−04	
	1.1674e+01	2.0800e−02	−3.0808e+00	1.1460e+01	−1.1356e+00	−6.8409e−02	−3.7137e+00	3.5238e+01
	0.99 0.99	0.99 0.99	1.00 0.99	0.98 0.98	0.96 0.95	0.74 0.53	0.33 0.08	0.01 0.00
^{168}Ho	$(n\alpha)^{165}$Tb	5.9950e+00	3.0	1.5	0.0100	0.01	2.7e−02	0
	4.1376e+01	−1.1295e+00	5.0660e+01	−1.1452e+02	1.5918e+01	−1.3812e+00	4.2574e+01	4.0577e+01
^{169}Ho	$(n\gamma)^{170}$Ho	5.5130e+00	3.5	6.0	0.0100	0.01	2.3e−03	
	6.6104e+00	9.9773e−02	−1.0293e+01	2.2645e+01	−1.2367e+00	−1.1635e−01	−9.6322e+00	2.9822e+01
	1.00 1.00	0.99 0.98	0.97 0.96	0.95 0.94	0.93 0.92	0.81 0.67	0.47 0.12	0.02 0.00
^{169}Ho	$(n\alpha)^{166}$Tb	4.5760e+00	3.5	4.0	0.0100	0.01	6.0e−02	0
	−2.0609e+02	7.9459e−01	−1.3153e+02	3.3112e+02	−1.4672e+01	3.6457e−01	−1.3293e+02	−2.0756e+02
^{170}Ho	$(n\gamma)^{171}$Ho	6.3510e+00	6.0	3.5	0.0100	0.01	4.9e−04	
	1.6121e+01	1.3620e−03	−6.2622e−01	3.5192e+00	−4.2098e−01	−1.1974e−01	−9.9080e−01	4.0304e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.96 0.93	0.91 0.89	0.64 0.44	0.27 0.07	0.01 0.00
^{170}Ho	$(n\alpha)^{167}$Tb	5.4000e+00	6.0	1.5	0.0100	0.01	3.8e−02	0
	−3.2372e+01	−3.6816e−01	−1.1441e+01	2.4472e+01	7.0326e+00	−8.9662e−01	−1.4415e+01	−3.2553e+01
^{171}Ho	$(n\gamma)^{172}$Ho	4.9460e+00	3.5	4.0	0.0100	0.01	2.2e−03	0
	1.8386e+01	2.6218e−02	−1.7851e+00	8.7684e−01	1.7600e−01	−1.9318e−01	−1.0179e+00	4.1965e+01
^{172}Ho	$(n\gamma)^{173}$Ho	6.1430e+00	4.0	3.5	0.0100	0.01	1.1e−03	0
	2.7011e+01	3.0644e−02	−6.0064e−01	−9.0860e+00	1.1255e+00	−2.4040e−01	1.4723e+00	5.0826e+01
^{173}Ho	$(n\gamma)^{174}$Ho	4.6550e+00	3.5	5.0	0.0100	0.01	2.5e−03	0
	2.0007e+01	2.2462e−02	−1.0640e+00	−2.2540e+00	4.8436e−01	−2.1854e−01	−6.1102e−02	4.3386e+01
^{174}Ho	$(n\gamma)^{175}$Ho	5.7200e+00	5.0	3.5	0.0100	0.01	1.1e−03	0
	2.5239e+01	2.6511e−02	−5.9028e−01	−7.7165e+00	9.5329e−01	−2.2939e−01	1.1826e+00	4.9255e+01
^{175}Ho	$(n\gamma)^{176}$Ho	4.1840e+00	3.5	3.0	0.0100	0.01	2.9e−03	0
	2.1093e+01	3.5403e−02	−1.7702e+00	−3.5555e+00	7.5788e−01	−2.4485e−01	−1.9084e−01	4.4924e+01
^{176}Ho	$(n\gamma)^{177}$Ho	5.2860e+00	3.0	3.5	0.0100	0.01	1.3e−03	0
	2.5323e+01	8.6773e−02	−5.1610e+00	−3.7568e+00	9.7814e−01	−2.4239e−01	−1.8332e+00	4.8886e+01
^{177}Ho	$(n\gamma)^{178}$Ho	3.8780e+00	3.5	4.0	0.0100	0.01	2.9e−03	0
	1.7441e+01	6.9923e−02	−5.1233e+00	3.5119e+00	1.9297e−01	−2.0582e−01	−3.2063e+00	4.1020e+01
^{178}Ho	$(n\gamma)^{179}$Ho	4.9620e+00	4.0	3.5	0.0100	0.01	1.3e−03	0
	2.4933e+01	7.3294e−02	−4.2610e+00	−4.6132e+00	9.8441e−01	−2.4325e−01	−1.2948e+00	4.8748e+01
^{179}Ho	$(n\gamma)^{180}$Ho	3.7040e+00	3.5	2.0	0.0100	0.01	2.6e−03	0
	1.5164e+01	9.7082e−02	−7.6623e+00	8.4717e+00	−2.1167e−01	−1.7734e−01	−5.4091e+00	3.9331e+01
^{180}Ho	$(n\gamma)^{181}$Ho	4.7660e+00	2.0	3.5	0.0100	0.01	1.3e−03	0
	1.7879e+01	2.0744e−01	−1.6009e+01	1.4890e+01	−8.8421e−02	−1.8857e−01	−1.0810e+01	4.1106e+01
^{181}Ho	$(n\gamma)^{182}$Ho	3.4340e+00	3.5	4.0	0.0100	0.01	2.7e−03	0
	1.4963e+01	1.0496e−01	−8.3400e+00	8.7806e+00	−1.0734e−01	−1.9304e−01	−5.8713e+00	3.8543e+01
^{182}Ho	$(n\gamma)^{183}$Ho	4.3990e+00	4.0	3.5	0.0100	0.01	1.0e−03	0
	2.2839e+01	9.1916e−02	−6.0339e+00	−1.3445e+00	7.1368e−01	−2.2689e−01	−2.8236e+00	4.6655e+01
^{183}Ho	$(n\gamma)^{184}$Ho	3.0890e+00	3.5	1.0	0.0100	0.01	2.8e−03	0
	9.3558e+00	1.5394e−01	−1.3169e+01	1.9041e+01	−8.4807e−01	−1.4581e−01	−1.0254e+01	3.4034e+01
^{184}Ho	$(n\gamma)^{185}$Ho	4.0330e+00	1.0	3.5	0.0100	0.01	8.2e−04	0
	8.7593e+00	3.2695e−01	−2.7090e+01	3.5050e+01	−1.3188e+00	−1.1847e−01	−2.0235e+01	3.1476e+01
^{185}Ho	$(n\gamma)^{186}$Ho	2.8110e+00	3.5	1.0	0.0100	0.01	2.1e−03	0
	7.0968e+00	1.4906e−01	−1.3138e+01	2.1655e+01	−1.3525e+00	−9.6695e−02	−1.0673e+01	3.1775e+01
^{186}Ho	$(n\gamma)^{187}$Ho	4.4490e+00	1.0	0.5	0.0100	0.01	2.9e−04	0
	−1.5928e+01	5.1368e−01	−4.8128e+01	8.3272e+01	−4.3030e+00	4.4330e−02	−4.0742e+01	8.1755e+00
^{187}Ho	$(n\gamma)^{188}$Ho	2.9370e+00	0.5	0.0	0.0100	0.01	3.3e−03	0
	−5.0772e+00	4.4136e−01	−3.8497e+01	6.0517e+01	−2.9318e+00	−5.0231e−02	−3.0785e+01	1.9314e+01
^{188}Ho	$(n\gamma)^{189}$Ho	4.0650e+00	0.0	0.5	0.0100	0.01	2.3e−04	0
	−1.9122e+01	5.4208e−01	−5.0850e+01	8.9582e+01	−4.9006e+00	9.5092e−02	−4.3221e+01	3.8827e+00
^{189}Ho	$(n\gamma)^{190}$Ho	3.0940e+00	0.5	2.0	0.0100	0.01	1.5e−03	0
	7.3578e+00	3.1436e−01	−2.5523e+01	3.4177e+01	−1.6397e+00	−9.1137e−02	−1.8934e+01	3.0139e+01
^{190}Ho	$(n\gamma)^{191}$Ho	4.1040e+00	2.0	4.5	0.0100	0.01	8.1e−04	0
	3.1244e+01	8.5043e−02	−3.3381e+00	−1.4410e+01	1.9471e+00	−3.1483e−01	1.1843e+00	5.4249e+01
^{191}Ho	$(n\gamma)^{192}$Ho	3.0470e+00	4.5	5.0	0.0100	0.01	4.5e−04	0
	7.1386e+00	7.1484e−02	−6.9757e+00	1.4628e+01	−1.1643e+00	−9.1437e−02	−6.2845e+00	3.0741e+01
^{192}Ho	$(n\gamma)^{193}$Ho	3.8470e+00	5.0	1.5	0.0150	0.01	1.5e−04	0
	3.2281e+01	−4.5302e−02	6.9473e+00	−2.8570e+01	2.7271e+00	−3.5182e−01	8.7140e+00	5.6991e+01
^{193}Ho	$(n\gamma)^{194}$Ho	7.1500e−01	1.5	0.0	0.0150	0.01	6.4e−04	0
	−4.4023e+01	2.6317e−01	−3.0846e+01	8.7257e+01	−6.4315e+00	2.1325e−01	−3.2225e+01	−1.8939e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{162}Er	$(n\gamma)^{163}$Er	6.9030e+00	0.0	2.5	0.0100	0.01	1.0e−02	
	−5.0336e−01	1.5258e−01	−1.5695e+01	3.7072e+01	−1.6012e+00	−1.7857e−01	−1.4962e+01	2.1401e+01
	1.00 1.01	1.05 1.11	1.16 1.21	1.25 1.29	1.31 1.34	1.54 1.59	1.37 0.34	0.03 0.00
^{162}Er	$(np)^{162}$Ho	4.8700e−01	0.0	1.0	0.0100	0.01	2.4e−02	0
	1.4980e+02	−1.6580e+00	1.9345e+02	−3.7749e+02	2.4053e+01	−1.6243e+00	1.8378e+02	1.4870e+02
^{162}Er	$(n\alpha)^{159}$Dy	8.4780e+00	0.0	1.5	0.0100	0.01	1.2e−03	0
	1.0117e+02	−1.6026e+00	9.9205e+01	−2.1227e+02	1.9253e+01	−1.4309e+00	8.6453e+01	9.8429e+01
^{163}Er	$(n\gamma)^{164}$Er	8.8470e+00	2.5	0.0	0.0100	0.01	4.8e−03	
	−1.3242e+00	2.3164e−01	−2.2352e+01	4.5542e+01	−2.2611e+00	−9.4932e−02	−1.9947e+01	2.4164e+01
	1.00 1.01	1.01 1.00	0.99 0.98	0.97 0.96	0.96 0.96	0.97 0.93	0.75 0.20	0.03 0.00
^{163}Er	$(np)^{163}$Ho	1.9930e+00	2.5	3.5	0.0100	0.01	5.5e−03	0
	3.2131e+01	6.5977e−02	3.7464e+00	−4.4619e+01	1.0339e+01	−1.1431e+00	1.0419e+01	3.1844e+01
^{163}Er	$(n\alpha)^{160}$Dy	1.0151e+01	2.5	0.0	0.0100	0.01	5.0e−03	
	8.2904e+01	−5.1905e−01	4.8953e+01	−1.3528e+02	1.2917e+01	−9.5258e−01	4.9371e+01	8.3338e+01
	1.00 1.01	1.01 0.99	0.97 0.94	0.92 0.91	0.90 0.89	0.91 1.14	1.73 6.07	15.45 12.98
^{164}Er	$(n\gamma)^{165}$Er	6.6500e+00	0.0	2.5	0.0100	0.01	1.5e−02	
	2.0231e+00	1.9517e−01	−1.8495e+01	3.6562e+01	−1.0904e+00	−2.3623e−01	−1.6303e+01	2.3928e+01
	1.00 1.04	1.18 1.29	1.34 1.37	1.38 1.37	1.36 1.35	1.52 1.67	1.47 0.35	0.03 0.00
^{164}Er	$(n\alpha)^{161}$Dy	7.7590e+00	0.0	2.5	0.0100	0.01	3.1e−03	0
	7.8774e+01	−2.9772e−01	3.8147e+01	−1.2991e+02	1.6218e+01	−1.3818e+00	4.2959e+01	7.5624e+01
^{165}Er	$(n\gamma)^{166}$Er	8.4740e+00	2.5	0.0	0.0100	0.01	4.5e−03	
	2.3983e−01	2.0600e−01	−2.0065e+01	4.1088e+01	−1.9798e+00	−1.1175e−01	−1.8004e+01	2.5728e+01
	1.00 1.01	1.00 0.98	0.98 0.97	0.97 0.96	0.96 0.97	0.97 0.92	0.75 0.21	0.03 0.00
^{165}Er	$(np)^{165}$Ho	1.1580e+00	2.5	3.5	0.0100	0.01	1.2e−02	0
	−1.2019e+02	5.9485e−01	−6.2850e+01	1.8402e+02	−1.0155e+01	3.1923e−01	−6.4612e+01	−1.2047e+02
^{165}Er	$(n\alpha)^{162}$Dy	9.3050e+00	2.5	0.0	0.0100	0.01	4.7e−03	
	1.0575e+02	−9.6004e−01	7.5279e+01	−1.9123e+02	1.7823e+01	−1.3079e+00	7.2061e+01	1.0618e+02
	1.00 1.01	0.99 0.95	0.92 0.89	0.87 0.86	0.85 0.84	0.91 1.32	2.55 14.00	45.00 36.66
^{166}Er	$(n\gamma)^{167}$Er	6.4360e+00	0.0	3.5	0.0100	0.01	1.0e−02	
	−8.9896e−01	1.5221e−01	−1.5688e+01	3.6484e+01	−1.5065e+00	−1.8922e−01	−1.4906e+01	2.0718e+01
	1.00 1.00	1.04 1.10	1.17 1.23	1.29 1.35	1.40 1.45	1.78 1.86	1.61 0.38	0.03 0.00
^{166}Er	$(n\alpha)^{163}$Dy	7.1020e+00	0.0	2.5	0.0100	0.01	1.1e−02	0
	9.3972e+01	−5.8780e−01	5.6140e+01	−1.7096e+02	2.0913e+01	−1.8221e+00	5.8903e+01	9.0822e+01
^{167}Er	$(n\gamma)^{168}$Er	7.7710e+00	3.5	0.0	0.0100	0.01	5.8e−03	
	5.3231e+00	1.3461e−01	−1.3615e+01	2.8426e+01	−1.1947e+00	−1.5973e−01	−1.2489e+01	3.1099e+01
	1.00 0.99	0.97 0.94	0.92 0.91	0.91 0.90	0.89 0.88	0.80 0.75	0.61 0.16	0.02 0.00
^{167}Er	$(n\alpha)^{164}$Dy	8.3240e+00	3.5	0.0	0.0100	0.01	2.3e−03	0
	1.0956e+02	−8.2878e−01	7.4265e+01	−1.9903e+02	1.9471e+01	−1.4363e+00	7.3308e+01	1.1028e+02
^{168}Er	$(n\gamma)^{169}$Er	6.0030e+00	0.0	0.5	0.0100	0.01	8.5e−03	
	−5.1165e−01	1.8295e−01	−1.7818e+01	3.7467e+01	−1.4066e+00	−1.9773e−01	−1.6120e+01	2.2492e+01
	1.00 1.04	1.12 1.20	1.26 1.32	1.38 1.43	1.47 1.53	1.90 1.97	1.65 0.40	0.04 0.00
^{168}Er	$(n\alpha)^{165}$Dy	6.2690e+00	0.0	3.5	0.0100	0.01	1.4e−02	0
	3.6976e+01	−1.9524e−02	7.8426e+00	−6.4931e+01	1.4311e+01	−1.4155e+00	1.4814e+01	3.3537e+01
^{169}Er	$(n\gamma)^{170}$Er	7.2590e+00	0.5	0.0	0.0100	0.01	5.4e−03	
	−1.1621e+00	1.9303e−01	−1.9336e+01	3.9961e+01	−1.7503e+00	−1.3817e−01	−1.7614e+01	2.3228e+01
	1.00 0.99	0.98 0.98	0.99 1.00	1.01 1.02	1.03 1.04	1.16 1.18	0.98 0.26	0.03 0.00
^{169}Er	$(n\alpha)^{166}$Dy	7.3090e+00	0.5	0.0	0.0100	0.01	4.3e−03	0
	8.4087e+01	−4.0029e−01	4.2020e+01	−1.4526e+02	1.8052e+01	−1.4583e+00	4.6744e+01	8.3421e+01
^{170}Er	$(n\gamma)^{171}$Er	5.6820e+00	0.0	2.5	0.0100	0.01	8.0e−03	
	−5.2112e+00	2.1904e−01	−2.1467e+01	4.5889e+01	−2.0988e+00	−1.4550e−01	−1.9534e+01	1.6694e+01
	1.00 1.04	1.12 1.19	1.25 1.32	1.38 1.44	1.49 1.55	1.98 2.09	1.75 0.42	0.04 0.00
^{170}Er	$(n\alpha)^{167}$Dy	5.4710e+00	0.0	0.5	0.0100	0.01	2.8e−02	0
	−4.9206e+01	5.8293e−01	−5.5608e+01	8.6397e+01	5.4398e+00	−1.0516e+00	−4.6437e+01	−5.1259e+01
^{171}Er	$(n\gamma)^{172}$Er	6.8360e+00	2.5	0.0	0.0100	0.01	4.8e−03	
	−6.7246e−01	1.7977e−01	−1.8074e+01	3.7874e+01	−1.8876e+00	−1.0905e−01	−1.6539e+01	2.4816e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.96 0.95	0.95 0.94	0.96 0.93	0.73 0.18	0.02 0.00
^{171}Er	$(n\alpha)^{168}$Dy	6.3830e+00	2.5	0.0	0.0100	0.01	5.8e−02	0
	2.6045e+01	2.5905e−01	−1.5089e+01	−3.3075e+01	1.3247e+01	−1.3400e+00	−3.3060e+00	2.6477e+01
^{172}Er	$(n\gamma)^{173}$Er	5.0680e+00	0.0	3.5	0.0100	0.01	1.9e−02	
	−1.4878e+01	3.1680e−01	−3.1028e+01	6.4886e+01	−3.0397e+00	−1.1878e−01	−2.8065e+01	6.7395e+00
	1.00 1.01	1.03 1.08	1.14 1.20	1.28 1.35	1.42 1.49	2.03 2.35	2.24 0.41	0.03 0.00

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{172}Er	$(n\alpha)^{169}$Dy	4.4800e+00	0.0	2.5	0.0100	0.01	9.2e−02	0
	−2.5865e+02	1.8226e+00	−1.9470e+02	4.5016e+02	−2.1700e+01	7.0795e−01	−1.8518e+02	−2.6180e+02
^{173}Er	$(n\gamma)^{174}$Er	6.6650e+00	3.5	0.0	0.0100	0.01	2.7e−03	0
	1.2271e+01	4.7124e−02	−4.7068e+00	1.0701e+01	−5.2918e−01	−1.6260e−01	−4.3900e+00	3.8048e+01
^{174}Er	$(n\gamma)^{175}$Er	4.7580e+00	0.0	4.5	0.0100	0.01	3.7e−03	0
	−3.8865e+00	8.3935e−02	−1.0222e+01	3.2432e+01	−2.1440e+00	−9.6315e−02	−1.1178e+01	1.7508e+01
^{175}Er	$(n\gamma)^{176}$Er	6.2660e+00	4.5	0.0	0.0100	0.01	2.8e−03	0
	1.0199e+01	6.1411e−02	−6.2019e+00	1.3787e+01	−7.1940e−01	−1.5249e−01	−5.7743e+00	3.6199e+01
^{176}Er	$(n\gamma)^{177}$Er	4.2850e+00	0.0	0.5	0.0100	0.01	4.5e−03	0
	3.3367e+00	1.5819e−02	−3.3363e+00	1.6655e+01	−1.0469e+00	−1.6490e−01	−4.7359e+00	2.6341e+01
^{177}Er	$(n\gamma)^{178}$Er	5.7700e+00	0.5	0.0	0.0150	0.01	4.6e−03	0
	3.0148e+01	4.5123e−02	3.0353e−01	−1.4990e+01	1.6739e+00	−3.1135e−01	3.6178e+00	5.4538e+01
^{178}Er	$(n\gamma)^{179}$Er	3.9870e+00	0.0	1.5	0.0100	0.01	5.0e−03	0
	2.5331e+00	1.6541e−02	−3.4014e+00	1.7251e+01	−1.2287e+00	−1.4881e−01	−4.8362e+00	2.4844e+01
^{179}Er	$(n\gamma)^{180}$Er	5.4670e+00	1.5	0.0	0.0250	0.01	4.1e−03	0
	2.2715e+01	1.9871e−02	4.4782e−01	−7.4990e+00	8.0991e−01	−2.4998e−01	2.0171e+00	4.7799e+01
^{180}Er	$(n\gamma)^{181}$Er	3.7770e+00	0.0	5.5	0.0100	0.01	5.7e−03	0
	−3.0358e−01	2.1954e−02	−4.2520e+00	2.0946e+01	−1.6557e+00	−1.1971e−01	−5.9250e+00	2.0909e+01
^{181}Er	$(n\gamma)^{182}$Er	5.2300e+00	5.5	0.0	0.0300	0.01	3.9e−03	0
	4.6384e−01	1.3042e−01	−1.3361e+01	3.0330e+01	−1.9123e+00	−9.0214e−02	−1.2557e+01	2.6646e+01
^{182}Er	$(n\gamma)^{183}$Er	3.4470e+00	0.0	3.5	0.0100	0.01	6.8e−03	0
	6.1305e+00	−2.3432e−02	7.6162e−01	8.1052e+00	−6.6937e−01	−1.8926e−01	−9.3225e−01	2.7749e+01
^{183}Er	$(n\gamma)^{184}$Er	4.8320e+00	3.5	0.0	0.0500	0.01	3.9e−03	0
	5.9706e−01	1.2831e−01	−1.2785e+01	2.9203e+01	−2.0555e+00	−6.9483e−02	−1.1891e+01	2.6374e+01
^{184}Er	$(n\gamma)^{185}$Er	3.1220e+00	0.0	4.5	0.0100	0.01	5.7e−03	0
	−1.2965e+01	7.4237e−02	−1.0752e+01	4.0235e+01	−3.3773e+00	1.0934e−03	−1.2919e+01	8.4304e+00
^{185}Er	$(n\gamma)^{186}$Er	4.4440e+00	4.5	0.0	0.0800	0.01	4.1e−03	0
	−1.1514e+01	2.0057e−01	−2.0837e+01	4.9991e+01	−3.6875e+00	3.7094e−02	−1.9950e+01	1.4486e+01
^{186}Er	$(n\gamma)^{187}$Er	2.9000e+00	0.0	0.5	0.0100	0.01	2.6e−03	0
	−4.9580e+01	3.2320e−01	−3.7600e+01	1.0857e+02	−8.9118e+00	3.8096e−01	−3.9371e+01	−2.6576e+01
^{187}Er	$(n\gamma)^{188}$Er	4.8680e+00	0.5	0.0	0.0800	0.01	5.2e−03	0
	2.3176e+00	3.9651e−01	−3.3161e+01	4.7754e+01	−2.0028e+00	−1.2361e−01	−2.5435e+01	2.6709e+01
^{188}Er	$(n\gamma)^{189}$Er	2.9500e+00	0.0	0.5	0.0100	0.01	4.7e−03	0
	−3.6919e+01	3.2049e−01	−3.5003e+01	9.0408e+01	−6.4049e+00	1.5533e−01	−3.4820e+01	−1.3915e+01
^{189}Er	$(n\gamma)^{190}$Er	4.4960e+00	0.5	0.0	0.1100	0.01	5.1e−03	0
	1.0388e+01	2.3745e−01	−1.8424e+01	2.3720e+01	−1.0598e+00	−1.4891e−01	−1.3174e+01	3.4779e+01
^{190}Er	$(n\gamma)^{191}$Er	3.1120e+00	0.0	1.5	0.0150	0.01	2.5e−03	0
	−6.1574e+01	4.7061e−01	−5.1512e+01	1.3514e+02	−1.0347e+01	4.5162e−01	−5.1473e+01	−3.9262e+01
^{191}Er	$(n\gamma)^{192}$Er	4.5140e+00	1.5	0.0	0.1250	0.01	1.5e−03	0
	−4.1476e+01	3.3803e−01	−3.7557e+01	9.9517e+01	−7.8224e+00	3.2734e−01	−3.7826e+01	−1.6392e+01
^{192}Er	$(n\gamma)^{193}$Er	3.1730e+00	0.0	0.5	0.0200	0.01	6.6e−03	0
	−8.0725e+01	6.1553e−01	−6.6755e+01	1.7109e+02	−1.2825e+01	6.0486e−01	−6.6079e+01	−5.7721e+01
^{193}Er	$(n\gamma)^{194}$Er	4.1170e+00	0.5	0.0	0.2600	0.01	1.1e−03	0
	−4.5191e+01	3.0687e−01	−3.5900e+01	9.9809e+01	−7.9373e+00	3.4509e−01	−3.7277e+01	−2.0800e+01
^{194}Er	$(n\gamma)^{195}$Er	7.3100e−01	0.0	4.5	0.1650	0.01	3.2e−02	0
	−6.7601e+01	7.2508e−01	−6.9218e+01	1.5032e+02	−9.0662e+00	2.2282e−01	−6.2381e+01	−4.6205e+01
^{195}Er	$(n\gamma)^{196}$Er	2.6600e+00	4.5	0.0	3.1700	0.01	1.3e−03	0
	−2.6586e+01	1.7208e−01	−2.0664e+01	5.8707e+01	−4.3835e+00	8.4682e−02	−2.1782e+01	−5.8577e−01
^{164}Tm	$(np)^{164}$Er	4.7450e+00	1.0	0.0	0.0100	0.01	1.5e−02	
	5.0191e+01	−3.1513e−02	1.0749e+01	−5.6201e+01	7.2196e+00	−6.1825e−01	1.5572e+01	5.1289e+01
	1.44 1.61	1.35 1.09	0.89 0.77	0.69 0.63	0.58 0.55	0.45 0.46	0.53 1.43	2.61 1.55
^{164}Tm	$(n\alpha)^{161}$Ho	1.0862e+01	1.0	3.5	0.0100	0.01	7.0e−03	0
	3.3127e+01	−1.5821e−01	7.8339e+00	−3.4296e+01	4.0501e+00	−2.2158e−01	9.8556e+00	3.0788e+01
^{165}Tm	$(np)^{165}$Er	2.3750e+00	0.5	2.5	0.0100	0.01	3.3e−03	
	4.9310e+01	−1.4744e−01	2.1613e+01	−7.7415e+01	1.1696e+01	−1.1878e+00	2.4893e+01	4.8212e+01
	1.70 1.71	1.77 1.89	2.03 2.14	2.23 2.29	2.36 2.40	3.12 5.28	10.28 29.60	20.31 4.39
^{165}Tm	$(n\alpha)^{162}$Ho	8.7580e+00	0.5	1.0	0.0100	0.01	8.9e−03	0
	1.0713e+02	−4.6449e−01	5.4981e+01	−1.7703e+02	2.0470e+01	−1.7529e+00	5.9814e+01	1.0537e+02
^{166}Tm	$(np)^{166}$Er	3.8220e+00	2.0	0.0	0.0100	0.01	1.1e−02	
	7.4810e+01	−2.6203e−01	3.4682e+01	−1.1152e+02	1.1753e+01	−9.5051e−01	3.8217e+01	7.6419e+01
	1.00 0.99	0.95 0.87	0.79 0.72	0.67 0.63	0.61 0.59	0.55 0.65	0.88 3.18	5.83 3.12

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{166}Tm	$(n\alpha)^{163}$Ho	1.0140e+01	2.0	3.5	0.0100	0.01	6.0e−03	0
	6.3458e+01	−4.0232e−01	3.9452e+01	−1.0291e+02	8.9134e+00	−5.2036e−01	3.9122e+01	6.1629e+01
^{167}Tm	$(n\gamma)^{168}$Tm	6.8400e+00	0.5	3.0	0.0100	0.01	3.8e−03	
	−1.4129e+01	2.5058e−01	−2.6285e+01	6.3618e+01	−4.2019e+00	5.4865e−02	−2.5331e+01	8.3151e+00
	1.32 1.36	1.33 1.32	1.30 1.31	1.30 1.31	1.32 1.33	1.46 1.38	1.02 0.22	0.02 0.00
^{167}Tm	$(np)^{167}$Er	1.5300e+00	0.5	3.5	0.0100	0.01	2.2e−03	0
	−3.7612e+01	9.7242e−03	−3.3215e+00	3.6449e+01	8.6184e−01	−3.9936e−01	−7.7210e+00	−3.8998e+01
^{167}Tm	$(n\alpha)^{164}$Ho	8.0850e+00	0.5	1.0	0.0100	0.01	2.3e−03	0
	8.0928e+01	−5.6320e−01	5.1324e+01	−1.4531e+02	1.6335e+01	−1.3017e+00	5.1837e+01	7.9164e+01
^{168}Tm	$(n\gamma)^{169}$Tm	8.0330e+00	3.0	0.5	0.0100	0.01	3.7e−04	
	3.0444e+00	1.3683e−01	−1.3725e+01	3.2687e+01	−2.3259e+00	−1.0415e−02	−1.2921e+01	2.7994e+01
	0.94 0.94	0.93 0.93	0.93 0.93	0.93 0.93	0.93 0.93	0.84 0.66	0.44 0.12	0.02 0.00
^{168}Tm	$(np)^{168}$Er	2.4610e+00	3.0	0.0	0.0100	0.01	5.1e−03	0
	2.2542e+01	9.0775e−02	−1.9953e+00	−2.4599e+01	6.6935e+00	−6.6153e−01	3.1966e+00	2.4488e+01
^{168}Tm	$(n\alpha)^{165}$Ho	9.2340e+00	3.0	3.5	0.0100	0.01	5.6e−03	0
	8.0073e+01	−5.0139e−01	5.0984e+01	−1.3716e+02	1.2590e+01	−8.1541e−01	5.1214e+01	7.8580e+01
^{169}Tm	$(n\gamma)^{170}$Tm	6.5930e+00	0.5	1.0	0.0100	0.01	3.7e−03	
	3.2275e+00	1.3224e−01	−1.3405e+01	3.0620e+01	−1.6929e+00	−1.0443e−01	−1.2569e+01	2.6519e+01
	1.22 1.35	1.35 1.37	1.37 1.39	1.40 1.41	1.42 1.42	1.32 1.16	0.87 0.21	0.03 0.00
^{169}Tm	$(np)^{169}$Er	4.3100e−01	0.5	0.5	0.0100	0.01	4.3e−03	0
	2.0202e+02	−2.2994e+00	2.5788e+02	−5.0244e+02	3.0347e+01	−1.8953e+00	2.4165e+02	2.0202e+02
^{169}Tm	$(n\alpha)^{166}$Ho	7.4440e+00	0.5	0.0	0.0100	0.01	6.9e−03	0
	1.1714e+02	−1.6398e+00	1.0480e+02	−2.4441e+02	2.4628e+01	−1.9805e+00	9.4608e+01	1.1647e+02
^{170}Tm	$(n\gamma)^{171}$Tm	7.4870e+00	1.0	0.5	0.0100	0.01	2.1e−03	
	8.4683e+00	1.1676e−01	−1.1095e+01	2.2915e+01	−1.1905e+00	−1.1309e−01	−9.8693e+00	3.2571e+01
	0.99 1.00	1.03 1.05	1.07 1.07	1.07 1.06	1.05 1.03	0.98 0.88	0.65 0.18	0.03 0.00
^{170}Tm	$(np)^{170}$Er	1.0970e+00	1.0	0.0	0.0100	0.01	3.8e−02	0
	−1.1146e+02	−3.1691e−02	−1.3549e+01	1.2284e+02	−8.5740e+00	3.4376e−01	−2.9211e+01	−1.1036e+02
^{170}Tm	$(n\alpha)^{167}$Ho	8.1360e+00	1.0	3.5	0.0100	0.01	3.5e−03	0
	1.2930e+02	−1.0368e+00	9.0843e+01	−2.3981e+02	2.3490e+01	−1.8119e+00	8.9214e+01	1.2696e+02
^{171}Tm	$(n\gamma)^{172}$Tm	6.2360e+00	0.5	2.0	0.0100	0.01	2.2e−03	
	−8.5816e+00	1.6261e−01	−1.8285e+01	4.8300e+01	−3.3726e+00	2.1419e−02	−1.8499e+01	1.4199e+01
	1.38 1.38	1.38 1.39	1.40 1.42	1.44 1.47	1.49 1.52	1.59 1.36	0.94 0.20	0.02 0.00
^{171}Tm	$(n\alpha)^{168}$Ho	6.5120e+00	0.5	3.0	0.0100	0.01	1.8e−02	0
	4.8167e+01	−2.0269e−01	1.9735e+01	−8.9641e+01	1.6572e+01	−1.6761e+00	2.4700e+01	4.5555e+01
^{172}Tm	$(n\gamma)^{173}$Tm	6.9500e+00	2.0	0.5	0.0100	0.01	9.5e−04	
	3.3697e+00	1.1361e−01	−1.2020e+01	2.9659e+01	−2.1582e+00	−2.3560e−02	−1.1678e+01	2.7983e+01
	1.01 1.04	1.06 1.07	1.08 1.08	1.07 1.06	1.04 1.02	0.97 0.78	0.49 0.11	0.02 0.00
^{172}Tm	$(n\alpha)^{169}$Ho	7.0700e+00	2.0	3.5	0.0100	0.01	4.1e−03	0
	3.9059e+01	−1.8095e−01	1.6373e+01	−6.9714e+01	1.1450e+01	−9.6668e−01	2.0028e+01	3.7230e+01
^{173}Tm	$(n\gamma)^{174}$Tm	5.6830e+00	0.5	4.0	0.0100	0.01	2.3e−03	
	−1.5606e+01	2.1513e−01	−2.3624e+01	6.1165e+01	−4.3740e+00	8.7385e−02	−2.3568e+01	6.5868e+00
	1.40 1.42	1.43 1.45	1.48 1.50	1.53 1.56	1.60 1.63	1.85 1.65	1.09 0.21	0.02 0.00
^{173}Tm	$(n\alpha)^{170}$Ho	5.6330e+00	0.5	6.0	0.0100	0.01	2.9e−02	0
	−7.6487e+01	6.4558e−01	−6.4499e+01	1.2747e+02	−6.3256e−02	−4.8451e−01	−5.8274e+01	−7.9719e+01
^{174}Tm	$(n\gamma)^{175}$Tm	6.5170e+00	4.0	0.5	0.0100	0.01	8.0e−04	
	2.6041e+01	1.0337e−02	7.5311e−01	−8.9068e+00	9.5531e−01	−2.2542e−01	2.1326e+00	5.1242e+01
	1.13 1.26	1.36 1.39	1.38 1.35	1.32 1.27	1.21 1.17	0.77 0.52	0.32 0.08	0.01 0.00
^{174}Tm	$(n\alpha)^{171}$Ho	6.3010e+00	4.0	3.5	0.0100	0.01	2.3e−02	0
	5.5548e+01	−3.0849e−02	1.2621e+01	−9.1441e+01	1.6394e+01	−1.4627e+00	2.1942e+01	5.4305e+01
^{175}Tm	$(n\gamma)^{176}$Tm	5.0490e+00	0.5	4.0	0.0100	0.01	5.5e−03	0
	−3.7974e+01	3.3666e−01	−3.6949e+01	9.9371e+01	−8.1325e+00	3.8397e−01	−3.7203e+01	−1.5781e+01
^{176}Tm	$(n\gamma)^{177}$Tm	6.3140e+00	4.0	0.5	0.0100	0.01	7.1e−04	0
	2.2863e+01	6.1116e−03	5.0303e−01	−5.2770e+00	5.5537e−01	−1.9923e−01	1.3227e+00	4.8064e+01
^{177}Tm	$(n\gamma)^{178}$Tm	4.7910e+00	0.5	0.0	0.0100	0.01	3.2e−03	0
	2.6640e+01	1.0863e−01	−5.6770e+00	−4.4498e+00	1.1491e+00	−2.8001e−01	−1.4752e+00	5.1030e+01
^{178}Tm	$(n\gamma)^{179}$Tm	5.8590e+00	0.0	0.5	0.0100	0.01	3.9e−04	0
	2.0343e−01	4.0169e−01	−3.4959e+01	5.5238e+01	−2.7091e+00	−2.8711e−02	−2.7933e+01	2.3208e+01
^{179}Tm	$(n\gamma)^{180}$Tm	4.4370e+00	0.5	2.0	0.0100	0.01	3.4e−03	0
	2.4834e+01	1.4257e−01	−8.6945e+00	1.2906e−01	9.2418e−01	−2.7082e−01	−3.8957e+00	4.7615e+01
^{180}Tm	$(n\gamma)^{181}$Tm	5.5110e+00	2.0	0.5	0.0100	0.01	1.3e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	2.4772e+01	1.1012e−01	−6.9718e+00	−8.1522e−01	8.4995e−01	−2.4305e−01	−3.1897e+00	4.9386e+01
^{181}Tm	(nγ)^{182}Tm	4.2210e+00	0.5	5.0	0.0100	0.01	3.3e−03	0
	2.0105e+01	2.0575e−01	−1.4584e+01	1.1077e+01	2.1205e−01	−2.2766e−01	−8.9449e+00	4.2098e+01
^{182}Tm	(nγ)^{183}Tm	5.2560e+00	5.0	0.5	0.0100	0.01	1.0e−03	0
	2.5724e+01	3.3126e−02	−9.7413e−01	−8.2629e+00	1.0972e+00	−2.5266e−01	1.0802e+00	5.1126e+01
^{183}Tm	(nγ)^{184}Tm	3.8930e+00	0.5	4.0	0.0100	0.01	3.3e−03	0
	1.5682e+01	2.6648e−01	−2.0272e+01	2.1214e+01	−3.1811e−01	−2.0427e−01	−1.3790e+01	3.7876e+01
^{184}Tm	(nγ)^{185}Tm	4.9130e+00	4.0	0.5	0.0100	0.01	1.0e−03	0
	2.5871e+01	6.0356e−02	−2.9986e+00	−7.0504e+00	1.1285e+00	−2.5632e−01	−1.7658e−01	5.1073e+01
^{185}Tm	(nγ)^{186}Tm	3.5320e+00	0.5	4.0	0.0100	0.01	3.2e−03	0
	8.5170e+00	3.3825e−01	−2.7366e+01	3.5528e+01	−1.2355e+00	−1.5135e−01	−2.0157e+01	3.0711e+01
^{186}Tm	(nγ)^{187}Tm	4.4540e+00	4.0	0.5	0.0100	0.01	9.5e−04	0
	2.4869e+01	5.3122e−02	−2.5276e+00	−6.9397e+00	9.8885e−01	−2.4320e−01	4.3125e−02	5.0071e+01
^{187}Tm	(nγ)^{188}Tm	3.2790e+00	0.5	4.0	0.0100	0.01	2.4e−03	0
	5.0020e+00	3.4681e−01	−2.8590e+01	4.1041e+01	−2.0501e+00	−7.5873e−02	−2.1709e+01	2.7196e+01
^{188}Tm	(nγ)^{189}Tm	4.9330e+00	4.0	3.5	0.0100	0.01	1.3e−03	0
	1.3808e+01	2.4300e−01	−2.0165e+01	2.3015e+01	−3.6487e−01	−1.9330e−01	−1.4776e+01	3.7623e+01
^{189}Tm	(nγ)^{190}Tm	3.3560e+00	3.5	3.0	0.0100	0.01	3.4e−03	0
	1.3030e+01	1.2508e−01	−1.0251e+01	1.2492e+01	−2.5805e−01	−2.0007e−01	−7.5460e+00	3.6862e+01
^{190}Tm	(nγ)^{191}Tm	4.4990e+00	3.0	3.5	0.0100	0.01	1.1e−03	0
	2.3391e+01	1.4143e−01	−9.7801e+00	1.8020e+00	8.3990e−01	−2.5571e−01	−5.2822e+00	4.6955e+01
^{191}Tm	(nγ)^{192}Tm	3.5650e+00	3.5	4.0	0.0100	0.01	8.8e−04	0
	1.4394e+01	4.9562e−02	−3.9242e+00	5.1539e+00	−4.6242e−01	−1.3887e−01	−2.8531e+00	3.7974e+01
^{192}Tm	(nγ)^{193}Tm	4.5070e+00	4.0	3.5	0.0100	0.01	3.8e−04	0
	3.4219e+01	−4.3208e−02	6.9981e+00	−2.7269e+01	2.3563e+00	−3.2555e−01	8.7182e+00	5.8035e+01
^{193}Tm	(nγ)^{194}Tm	3.5740e+00	3.5	3.0	0.0100	0.01	4.4e−04	0
	1.7129e+01	1.1487e−02	−2.9213e−01	−2.2193e+00	9.5743e−02	−1.7267e−01	3.6170e−01	4.0961e+01
^{194}Tm	(nγ)^{195}Tm	4.2060e+00	3.0	2.5	0.0100	0.01	1.1e−04	0
	3.6339e+01	−6.3972e−02	9.4067e+00	−3.4345e+01	3.0456e+00	−3.6890e−01	1.1251e+01	6.0191e+01
^{195}Tm	(nγ)^{196}Tm	1.0770e+00	2.5	5.0	0.0100	0.01	2.0e−03	0
	−3.4316e+01	2.5477e−01	−2.8936e+01	7.6225e+01	−5.0652e+00	9.4874e−02	−2.9358e+01	−1.1224e+01
^{196}Tm	(nγ)^{197}Tm	2.6930e+00	5.0	3.5	0.3750	0.01	4.6e−04	0
	3.0465e+01	1.5849e−02	1.3592e+00	−2.3953e+01	3.3268e+00	−4.3501e−01	4.5399e+00	5.4482e+01
^{197}Tm	(nγ)^{198}Tm	6.1800e−01	3.5	1.0	0.0400	0.01	2.0e−03	0
	−2.9650e+01	2.0741e−01	−2.3770e+01	6.3499e+01	−4.3031e+00	5.4531e−02	−2.4282e+01	−4.9711e+00
^{166}Yb	(np)^{166}Tm	1.0860e+00	0.0	2.0	0.0100	0.01	3.3e−03	0
	−1.2348e+02	1.2177e−01	−2.4012e+01	1.5125e+02	−1.1612e+01	5.7760e−01	−3.7548e+01	−1.2509e+02
^{166}Yb	(nα)^{163}Er	9.2330e+00	0.0	2.5	0.0100	0.01	6.1e−04	0
	8.7166e+01	−9.4863e−01	6.9344e+01	−1.6357e+02	1.5527e+01	−1.1606e+00	6.4025e+01	8.4015e+01
^{167}Yb	(np)^{167}Tm	2.7370e+00	2.5	0.5	0.0100	0.01	2.4e−03	
	4.9401e+01	−8.5923e−02	1.5634e+01	−7.0330e+01	1.1330e+01	−1.1248e+00	2.0085e+01	5.0500e+01
	0.99 0.86	0.77 0.72	0.70 0.69	0.70 0.72	0.74 0.76	1.21 2.46	5.80 21.79	21.80 6.26
^{167}Yb	(nα)^{164}Er	1.1003e+01	2.5	0.0	0.0100	0.01	5.6e−03	0
	7.5184e+01	−3.9067e−01	4.0590e+01	−1.1673e+02	1.1543e+01	−9.0176e−01	4.1866e+01	7.5617e+01
^{168}Yb	(nγ)^{169}Yb	6.8670e+00	0.0	3.5	0.0100	0.01	1.1e−02	
	−1.5986e+00	1.8761e−01	−1.8491e+01	4.0885e+01	−1.7142e+00	−1.8339e−01	−1.7026e+01	2.0019e+01
	1.00 1.03	1.10 1.18	1.23 1.27	1.31 1.34	1.37 1.39	1.60 1.66	1.40 0.32	0.03 0.00
^{168}Yb	(np)^{168}Tm	5.2500e−01	0.0	3.0	0.0100	0.01	2.3e−02	0
	9.1216e+01	−1.4229e+00	1.6103e+02	−2.7917e+02	1.5781e+01	−1.0282e+00	1.4759e+02	8.9270e+01
^{168}Yb	(nα)^{165}Er	8.6010e+00	0.0	2.5	0.0100	0.01	9.3e−04	0
	1.0030e+02	−1.5173e+00	9.5206e+01	−2.0751e+02	1.8990e+01	−1.4081e+00	8.3828e+01	9.7145e+01
^{169}Yb	(nγ)^{170}Yb	8.4710e+00	3.5	0.0	0.0100	0.01	5.2e−03	
	−1.3550e+00	2.2476e−01	−2.1677e+01	4.4654e+01	−2.2545e+00	−9.6642e−02	−1.9390e+01	2.4421e+01
	1.00 0.99	0.98 0.97	0.95 0.94	0.93 0.92	0.91 0.90	0.88 0.83	0.67 0.17	0.02 0.00
^{169}Yb	(np)^{169}Tm	1.6920e+00	3.5	0.5	0.0100	0.01	6.4e−03	0
	−7.3379e+01	7.5943e−01	−7.0483e+01	1.4300e+02	−3.0079e+00	−3.8435e−01	−6.2387e+01	−7.1993e+01
^{169}Yb	(nα)^{166}Er	1.0209e+01	3.5	0.0	0.0100	0.01	6.7e−03	
	8.8228e+01	−6.8147e−01	5.8773e+01	−1.5154e+02	1.3709e+01	−9.6184e−01	5.7253e+01	8.8948e+01
	1.02 1.05	1.06 1.06	1.05 1.04	1.02 1.01	1.00 0.99	1.03 1.29	1.97 7.72	26.60 30.31
^{170}Yb	(nγ)^{171}Yb	6.6150e+00	0.0	0.5	0.0100	0.01	1.5e−02	
	−2.8955e+00	2.3137e−01	−2.2240e+01	4.5540e+01	−1.7835e+00	−1.9021e−01	−1.9877e+01	2.0108e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 1.03	1.15 1.24	1.31 1.33	1.33 1.34	1.32 1.32	1.53 1.72	1.48 0.33	0.03 0.00
^{170}Yb	(nα)^{167}Er	8.1740e+00	0.0	3.5	0.0100	0.01	2.2e−03	0
	7.7140e+01	−3.5257e−01	3.9839e+01	−1.2940e+02	1.5805e+01	−1.3364e+00	4.3594e+01	7.3701e+01
^{171}Yb	(nγ)^{172}Yb	8.0200e+00	0.5	0.0	0.0100	0.01	6.6e−03	
	2.1897e+00	1.9366e−01	−1.8375e+01	3.6487e+01	−1.5207e+00	−1.5687e−01	−1.6191e+01	2.6580e+01
	1.00 1.02	1.07 1.10	1.12 1.12	1.13 1.14	1.15 1.15	1.20 1.15	0.93 0.23	0.03 0.00
^{171}Yb	(np)^{171}Tm	6.8600e−01	0.5	0.5	0.0100	0.01	1.4e−02	0
	2.4979e+01	−1.4019e+00	1.3227e+02	−1.8079e+02	1.1078e+01	−9.2935e−01	1.0691e+02	2.4979e+01
^{171}Yb	(nα)^{168}Er	9.3300e+00	0.5	0.0	0.0100	0.01	2.4e−03	
	1.0978e+02	−1.3719e+00	9.1661e+01	−2.1299e+02	1.9106e+01	−1.3745e+00	8.3212e+01	1.0911e+02
	1.00 0.99	0.95 0.91	0.87 0.84	0.81 0.80	0.78 0.77	0.81 1.12	2.15 12.36	46.60 54.23
^{172}Yb	(nγ)^{173}Yb	6.3680e+00	0.0	2.5	0.0100	0.01	9.5e−03	
	−5.8815e+00	2.0932e−01	−2.1035e+01	4.7184e+01	−2.2147e+00	−1.4692e−01	−1.9584e+01	1.6024e+01
	1.00 1.02	1.09 1.17	1.23 1.29	1.33 1.38	1.43 1.47	1.84 1.95	1.64 0.37	0.03 0.00
^{172}Yb	(nα)^{169}Er	7.3140e+00	0.0	0.5	0.0100	0.01	1.2e−02	0
	9.8480e+01	−9.8613e−01	7.0152e+01	−1.9017e+02	2.2207e+01	−1.9277e+00	6.8182e+01	9.6427e+01
^{173}Yb	(nγ)^{174}Yb	7.4650e+00	2.5	0.0	0.0100	0.01	5.7e−03	
	2.0070e+00	1.5602e−01	−1.5763e+01	3.3871e+01	−1.5939e+00	−1.3794e−01	−1.4548e+01	2.7496e+01
	1.00 1.01	1.01 1.01	1.01 1.01	1.01 1.00	1.00 1.00	0.94 0.90	0.73 0.18	0.02 0.00
^{173}Yb	(nα)^{170}Er	8.2050e+00	2.5	0.0	0.0100	0.01	1.0e−03	0
	1.1556e+02	−1.2019e+00	8.9409e+01	−2.2303e+02	2.1330e+01	−1.5415e+00	8.4376e+01	1.1599e+02
^{174}Yb	(nγ)^{175}Yb	5.8220e+00	0.0	3.5	0.0100	0.01	1.2e−02	
	−9.9960e+00	2.5360e−01	−2.5189e+01	5.4938e+01	−2.6114e+00	−1.3367e−01	−2.3166e+01	1.1622e+01
	1.00 1.02	1.08 1.15	1.22 1.29	1.36 1.42	1.49 1.55	2.04 2.24	1.91 0.38	0.03 0.00
^{174}Yb	(nα)^{171}Er	6.4210e+00	0.0	2.5	0.0100	0.01	3.3e−02	0
	5.6129e+01	−3.6248e−01	2.4975e+01	−1.0540e+02	1.8610e+01	−1.8425e+00	2.9902e+01	5.2977e+01
^{175}Yb	(nγ)^{176}Yb	6.8640e+00	3.5	0.0	0.0100	0.01	5.9e−03	
	−9.6863e−01	1.8275e−01	−1.8359e+01	3.9167e+01	−1.9732e+00	−1.1447e−01	−1.6868e+01	2.4808e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.96 0.95	0.94 0.93	0.87 0.80	0.62 0.14	0.02 0.00
^{175}Yb	(nα)^{172}Er	7.4350e+00	3.5	0.0	0.0100	0.01	2.3e−03	0
	9.2570e+01	−8.1619e−01	6.4190e+01	−1.7696e+02	1.8991e+01	−1.4079e+00	6.3443e+01	9.3289e+01
^{176}Yb	(nγ)^{177}Yb	5.5670e+00	0.0	4.5	0.0100	0.01	8.1e−03	
	−1.0610e+01	2.4508e−01	−2.4595e+01	5.4656e+01	−2.7981e+00	−1.0310e−01	−2.2814e+01	1.0785e+01
	1.00 1.01	1.05 1.10	1.16 1.23	1.29 1.35	1.42 1.49	2.01 2.11	1.66 0.33	0.03 0.00
^{176}Yb	(nα)^{173}Er	5.4130e+00	0.0	3.5	0.0100	0.01	4.6e−02	0
	−9.0629e+01	7.7020e−01	−7.8503e+01	1.5455e+02	−1.0420e+00	−4.8587e−01	−7.0388e+01	−9.4069e+01
^{177}Yb	(nγ)^{178}Yb	6.7800e+00	4.5	0.0	0.0100	0.01	6.6e−03	0
	3.4383e+00	1.8303e−01	−1.7542e+01	3.2441e+01	−1.0591e+00	−1.9532e−01	−1.5286e+01	2.9438e+01
^{178}Yb	(nγ)^{179}Yb	4.8840e+00	0.0	0.5	0.0100	0.01	1.2e−02	0
	−4.1580e+00	2.4822e−01	−2.3658e+01	4.4724e+01	−1.1522e+00	−2.6676e−01	−2.0672e+01	1.8846e+01
^{179}Yb	(nγ)^{180}Yb	6.3890e+00	0.5	0.0	0.0100	0.01	3.6e−03	0
	2.9324e+01	−1.1416e−02	4.1992e+00	−1.7260e+01	1.6428e+00	−3.0734e−01	5.8720e+00	5.3715e+01
^{180}Yb	(nγ)^{181}Yb	4.5430e+00	0.0	1.5	0.0100	0.01	4.1e−03	0
	2.7615e−02	4.3366e−02	−6.2785e+00	2.3690e+01	−1.4763e+00	−1.4733e−01	−7.5829e+00	2.2339e+01
^{181}Yb	(nγ)^{182}Yb	6.0830e+00	1.5	0.0	0.0100	0.01	3.4e−03	0
	2.6349e+01	−3.3358e−02	5.0657e+00	−1.5529e+01	1.4056e+00	−2.9270e−01	5.7760e+00	5.1432e+01
^{182}Yb	(nγ)^{183}Yb	4.1670e+00	0.0	5.5	0.0100	0.01	4.8e−03	0
	2.8437e+00	1.2777e−02	−3.1990e+00	1.7053e+01	−1.0162e+00	−1.8169e−01	−4.7487e+00	2.4056e+01
^{183}Yb	(nγ)^{184}Yb	5.8450e+00	5.5	0.0	0.0150	0.01	3.0e−03	0
	1.5387e+01	4.7236e−02	−4.0731e+00	5.1371e+00	1.9810e−01	−2.3309e−01	−3.1301e+00	4.1570e+01
^{184}Yb	(nγ)^{185}Yb	4.0010e+00	0.0	3.5	0.0100	0.01	5.6e−03	0
	6.9037e+00	−2.4357e−02	7.3870e−01	8.0561e+00	−4.9875e−01	−2.0815e−01	−9.9311e−01	2.8522e+01
^{185}Yb	(nγ)^{186}Yb	5.2930e+00	3.5	0.0	0.0250	0.01	3.3e−03	0
	1.3295e+00	1.0280e−01	−1.0876e+01	2.7177e+01	−1.8705e+00	−8.6497e−02	−1.0611e+01	2.7107e+01
^{186}Yb	(nγ)^{187}Yb	3.6070e+00	0.0	4.5	0.0100	0.01	6.1e−03	0
	1.1778e+00	−2.5831e−02	−5.2933e−02	1.4939e+01	−1.5417e+00	−1.1463e−01	−2.6054e+00	2.2573e+01
^{187}Yb	(nγ)^{188}Yb	4.9580e+00	4.5	0.0	0.0400	0.01	3.6e−03	0
	−3.0784e+00	1.4395e−01	−1.4942e+01	3.5419e+01	−2.4461e+00	−5.0110e−02	−1.4264e+01	2.2922e+01
^{188}Yb	(nγ)^{189}Yb	3.2580e+00	0.0	0.5	0.0100	0.01	2.4e−03	0
	−4.8399e+01	3.3781e−01	−3.8551e+01	1.0897e+02	−8.7151e+00	3.5654e−01	−3.9879e+01	−2.5395e+01
^{189}Yb	(nγ)^{190}Yb	5.3820e+00	0.5	0.0	0.0450	0.01	4.8e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.2076e+01	3.3255e−01	−2.6343e+01	3.0608e+01	−5.2832e−01	−2.2906e−01	−1.8774e+01	3.6467e+01
^{190}Yb	(nγ)^{191}Yb	3.4240e+00	0.0	0.5	0.0100	0.01	8.4e−03	0
	−2.8699e+01	3.5476e−01	−3.6309e+01	8.2831e+01	−4.8720e+00	5.0045e−03	−3.4149e+01	−5.6940e+00
^{191}Yb	(nγ)^{192}Yb	4.9640e+00	0.5	0.0	0.0550	0.01	4.8e−03	0
	1.7979e+01	1.6756e−01	−1.1470e+01	9.0778e+00	1.6894e−02	−2.2168e−01	−6.8511e+00	4.2370e+01
^{192}Yb	(nγ)^{193}Yb	3.6240e+00	0.0	1.5	0.0100	0.01	7.7e−03	0
	−2.7648e+01	3.2566e−01	−3.3667e+01	7.9374e+01	−5.0294e+00	4.5961e−02	−3.2049e+01	−5.3366e+00
^{193}Yb	(nγ)^{194}Yb	4.9450e+00	1.5	0.0	0.0650	0.01	1.6e−04	0
	−3.7970e+01	2.5574e−01	−3.0456e+01	8.9760e+01	−7.5929e+00	3.3491e−01	−3.2312e+01	−1.2886e+01
^{194}Yb	(nγ)^{195}Yb	3.6130e+00	0.0	0.5	0.0100	0.01	6.8e−03	0
	−7.6723e+01	6.1169e−01	−6.5782e+01	1.6637e+02	−1.2186e+01	5.4782e−01	−6.4693e+01	−5.3718e+01
^{195}Yb	(nγ)^{196}Yb	4.5650e+00	0.5	0.0	0.1500	0.01	1.1e−03	0
	−3.1683e+01	2.5619e−01	−2.9405e+01	7.8527e+01	−5.7797e+00	1.7509e−01	−3.0026e+01	−7.2917e+00
^{196}Yb	(nγ)^{197}Yb	1.2770e+00	0.0	4.5	0.0950	0.01	3.1e−02	0
	−3.8890e+01	4.2024e−01	−4.1141e+01	9.1780e+01	−4.8662e+00	−4.5926e−02	−3.7800e+01	−1.7494e+01
^{197}Yb	(nγ)^{198}Yb	2.9860e+00	4.5	0.0	2.4200	0.01	2.0e−03	0
	−2.7682e+01	2.0790e−01	−2.4018e+01	6.4338e+01	−4.4808e+00	7.1521e−02	−2.4613e+01	−1.6813e+00
^{198}Yb	(nγ)^{199}Yb	5.1700e−01	0.0	1.5	0.5350	0.01	2.7e−02	0
	−1.0427e+02	7.6566e−01	−8.2082e+01	2.0400e+02	−1.4278e+01	6.2107e−01	−8.0293e+01	−8.1956e+01
^{199}Yb	(nγ)^{200}Yb	2.6230e+00	1.5	0.0	2.8850	0.01	3.2e−04	0
	−9.4459e+00	3.7344e−02	−6.7550e+00	2.8491e+01	−3.0739e+00	5.1355e−02	−8.7986e+00	1.5639e+01
^{170}Lu	(np)^{170}Yb	4.2410e+00	0.0	0.0	0.0100	0.01	1.9e−02	
	7.9127e+01	−3.8819e−01	4.4840e+01	−1.2466e+02	1.1868e+01	−9.1684e−01	4.5697e+01	7.9127e+01
	1.00 0.91	0.78 0.69	0.66 0.64	0.64 0.64	0.65 0.66	0.68 0.69	0.81 2.39	4.01 2.02
^{170}Lu	(nα)^{167}Tm	1.0885e+01	0.0	0.5	0.0100	0.01	1.2e−02	0
	5.5773e+01	−3.5394e−01	3.3029e+01	−8.6397e+01	7.9297e+00	−5.3466e−01	3.2571e+01	5.3720e+01
^{171}Lu	(np)^{171}Yb	2.2620e+00	3.5	0.5	0.0100	0.01	2.1e−03	
	1.8090e+01	5.6441e−02	1.5151e−02	−2.3474e+01	7.9940e+00	−9.7360e−01	3.8469e+00	1.9476e+01
	1.00 1.02	1.05 1.12	1.19 1.27	1.35 1.44	1.53 1.63	3.23 6.85	14.48 46.07	33.33 7.76
^{171}Lu	(nα)^{168}Tm	9.1300e+00	3.5	3.0	0.0100	0.01	2.8e−03	0
	9.8578e+01	−5.1271e−01	5.5261e+01	−1.6403e+02	1.7315e+01	−1.3945e+00	5.7977e+01	9.7352e+01
^{172}Lu	(np)^{172}Yb	3.3010e+00	4.0	0.0	0.0100	0.01	3.1e−03	
	9.9125e+01	−3.8439e−01	5.0276e+01	−1.5824e+02	1.6649e+01	−1.3811e+00	5.5130e+01	1.0132e+02
	1.01 1.19	1.40 1.53	1.59 1.61	1.61 1.59	1.57 1.55	1.56 2.12	3.43 12.10	13.25 3.33
^{172}Lu	(nα)^{169}Tm	1.0184e+01	4.0	0.5	0.0100	0.01	6.0e−03	0
	9.4823e+01	−5.4182e−01	5.5616e+01	−1.5623e+02	1.5038e+01	−1.1519e+00	5.7003e+01	9.4967e+01
^{173}Lu	(nγ)^{174}Lu	6.7610e+00	3.5	1.0	0.0100	0.01	4.2e−03	
	3.7385e+00	1.7375e−01	−1.6479e+01	3.3741e+01	−1.7373e+00	−1.1118e−01	−1.4607e+01	2.8416e+01
	1.00 1.00	1.00 0.99	0.98 0.97	0.96 0.94	0.93 0.92	0.82 0.73	0.55 0.13	0.02 0.00
^{173}Lu	(np)^{173}Yb	1.4530e+00	3.5	2.5	0.0100	0.01	5.4e−03	0
	−1.1729e+02	4.9193e−01	−5.8252e+01	1.7824e+02	−9.7561e+00	3.1972e−01	−6.3101e+01	−1.1701e+02
^{173}Lu	(nα)^{170}Tm	8.5610e+00	3.5	1.0	0.0100	0.01	3.5e−03	0
	1.1925e+02	−8.0009e−01	7.5080e+01	−2.1076e+02	2.1588e+01	−1.7042e+00	7.6115e+01	1.1887e+02
^{174}Lu	(nγ)^{175}Lu	7.6670e+00	1.0	3.5	0.0100	0.01	1.0e−03	
	1.2106e+01	7.6472e−02	−7.0316e+00	1.5349e+01	−8.7236e−01	−1.2241e−01	−6.2385e+00	3.4823e+01
	1.00 1.04	1.06 1.09	1.11 1.13	1.14 1.14	1.14 1.13	0.97 0.78	0.53 0.14	0.02 0.00
^{174}Lu	(np)^{174}Yb	2.1570e+00	1.0	0.0	0.0100	0.01	1.6e−03	0
	1.4512e+01	1.2570e−01	−6.5026e+00	−1.5401e+01	7.8172e+00	−9.5654e−01	−1.3492e+00	1.5611e+01
^{174}Lu	(nα)^{171}Tm	9.2870e+00	1.0	0.5	0.0100	0.01	7.0e−03	
	1.1801e+02	−6.6077e−01	7.1382e+01	−2.0209e+02	1.9559e+01	−1.4758e+00	7.3374e+01	1.1706e+02
	1.00 1.02	1.03 1.03	1.03 1.03	1.01 1.00	0.98 0.97	1.00 1.49	3.18 23.25	62.63 30.13
^{175}Lu	(nγ)^{176}Lu	6.2880e+00	3.5	7.0	0.0100	0.01	3.5e−03	
	1.0041e+01	9.9729e−02	−9.3714e+00	1.9131e+01	−8.9453e−01	−1.5316e−01	−8.2734e+00	3.3109e+01
	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.98	0.96 0.96	0.79 0.66	0.48 0.11	0.01 0.00
^{175}Lu	(np)^{175}Yb	3.1200e−01	3.5	3.5	0.0100	0.01	9.5e−04	0
	1.4669e+02	−3.7169e−01	1.1150e+02	−2.9457e+02	1.8942e+01	−1.2577e+00	1.3721e+02	1.4669e+02
^{175}Lu	(nα)^{172}Tm	7.8560e+00	3.5	2.0	0.0100	0.01	8.8e−03	0
	1.4450e+02	−2.1624e+00	1.3410e+02	−3.0387e+02	2.8664e+01	−2.2056e+00	1.1953e+02	1.4361e+02
^{176}Lu	(nγ)^{177}Lu	7.0720e+00	7.0	3.5	0.0100	0.01	7.7e−04	
	1.3547e+01	5.3377e−02	−4.9327e+00	1.1508e+01	−8.1664e−01	−1.1331e−01	−4.4597e+00	3.7873e+01
	1.00 1.00	1.00 1.00	1.00 0.98	0.97 0.96	0.94 0.92	0.67 0.46	0.29 0.07	0.01 0.00

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{176}Lu	(np)^{176}Yb	8.8800e−01	7.0	0.0	0.0100	0.01	7.2e−02	0
	−1.2879e+02	1.1223e+00	−8.8542e+01	2.1612e+02	−1.5208e+01	8.3330e−01	−7.4816e+01	−1.2608e+02
^{176}Lu	(nα)^{173}Tm	8.5170e+00	7.0	0.5	0.0100	0.01	8.9e−03	0
	1.3944e+02	−1.6500e+00	1.2137e+02	−2.8081e+02	2.4822e+01	−1.8041e+00	1.1129e+02	1.4010e+02
^{177}Lu	(nγ)^{178}Lu	6.0250e+00	3.5	0.0	0.0100	0.01	2.9e−03	
	3.8751e+00	1.3824e−01	−1.3865e+01	3.0004e+01	−1.6749e+00	−1.0095e−01	−1.2769e+01	2.9652e+01
	1.00 1.00	0.99 0.99	0.98 0.96	0.94 0.92	0.90 0.89	0.77 0.64	0.46 0.10	0.01 0.00
^{177}Lu	(nα)^{174}Tm	7.1280e+00	3.5	4.0	0.0100	0.01	1.5e−02	0
	1.0206e+02	−1.0442e+00	7.2172e+01	−1.9842e+02	2.3508e+01	−2.0536e+00	7.0242e+01	1.0058e+02
^{178}Lu	(nγ)^{179}Lu	6.7930e+00	0.0	3.5	0.0100	0.01	2.4e−03	
	−7.3394e−01	1.7780e−01	−1.6983e+01	3.9241e+01	−2.8957e+00	1.7696e−02	−1.5551e+01	2.0884e+01
	1.00 1.15	1.32 1.42	1.47 1.48	1.48 1.49	1.48 1.46	1.31 1.00	0.59 0.11	0.02 0.00
^{178}Lu	(np)^{178}Yb	1.3800e−01	0.0	0.0	0.0100	0.01	7.8e−03	0
	4.4051e+01	2.2089e+00	−8.0865e+01	1.3167e+01	−1.5455e+00	1.5304e−01	−6.9788e+00	4.4051e+01
^{178}Lu	(nα)^{175}Tm	7.6200e+00	0.0	0.5	0.0100	0.01	2.2e−03	0
	1.4267e+02	−2.2394e+00	1.3207e+02	−3.0369e+02	2.9767e+01	−2.2700e+00	1.1735e+02	1.4062e+02
^{179}Lu	(nγ)^{180}Lu	5.6900e+00	3.5	3.0	0.0100	0.01	3.5e−03	0
	−1.8811e+01	2.7308e−01	−2.9026e+01	7.0338e+01	−4.8894e+00	1.1568e−01	−2.8115e+01	5.0204e+00
^{180}Lu	(nγ)^{181}Lu	6.5130e+00	3.0	3.5	0.0100	0.01	6.3e−04	0
	2.4256e+01	1.7396e−02	−7.2731e−02	−5.9630e+00	7.3107e−01	−2.1951e−01	1.2089e+00	4.7819e+01
^{181}Lu	(nγ)^{182}Lu	5.0590e+00	3.5	6.5	0.0100	0.01	2.2e−03	0
	1.6272e+01	3.4644e−02	−2.8772e+00	4.3639e+00	−1.4075e−02	−1.9757e−01	−2.2368e+00	3.9410e+01
^{182}Lu	(nγ)^{183}Lu	6.0760e+00	6.5	3.5	0.0100	0.01	6.7e−04	0
	2.1438e+01	1.9169e−02	−1.1691e+00	−2.0163e+00	4.6372e−01	−2.0719e−01	−3.2180e−01	4.5695e+01
^{183}Lu	(nγ)^{184}Lu	4.9080e+00	3.5	6.0	0.0100	0.01	1.7e−03	0
	1.6326e+01	3.6525e−02	−2.9434e+00	4.1380e+00	−9.7742e−02	−1.8492e−01	−2.2066e+00	3.9538e+01
^{184}Lu	(nγ)^{185}Lu	5.7500e+00	6.0	4.5	0.0100	0.01	4.7e−04	0
	1.4255e+01	3.3214e−02	−3.2633e+00	7.7978e+00	−6.2044e−01	−1.2813e−01	−3.0518e+00	3.8215e+01
^{185}Lu	(nγ)^{186}Lu	4.5040e+00	4.5	1.0	0.0100	0.01	2.0e−03	0
	1.4400e+01	4.7532e−02	−4.2234e+00	6.9126e+00	−2.2087e−01	−1.8395e−01	−3.4549e+00	3.9302e+01
^{186}Lu	(nγ)^{187}Lu	5.4200e+00	1.0	4.5	0.0100	0.01	1.2e−03	0
	2.4057e+01	1.4071e−01	−9.1736e+00	2.1859e+00	6.7146e−01	−2.3841e−01	−4.6902e+00	4.6551e+01
^{187}Lu	(nγ)^{188}Lu	4.0810e+00	4.5	5.0	0.0100	0.01	2.3e−03	0
	1.4161e+01	5.4347e−02	−4.7041e+00	6.7551e+00	−1.1800e−01	−1.9608e−01	−3.6970e+00	3.7764e+01
^{188}Lu	(nγ)^{189}Lu	4.9940e+00	5.0	3.5	0.0100	0.01	8.6e−04	0
	2.3407e+01	1.5024e−02	7.7718e−02	−7.2110e+00	8.2182e−01	−2.3291e−01	1.4081e+00	4.7423e+01
^{189}Lu	(nγ)^{190}Lu	3.5400e+00	3.5	2.0	0.0100	0.01	2.5e−03	0
	1.4372e+01	6.6693e−02	−5.4070e+00	7.2497e+00	−2.6100e−01	−1.8085e−01	−4.0243e+00	3.8540e+01
^{190}Lu	(nγ)^{191}Lu	5.4440e+00	2.0	2.5	0.0100	0.01	7.1e−04	0
	9.1152e+00	3.2453e−01	−2.7472e+01	3.6521e+01	−1.1800e+00	−1.4469e−01	−2.0905e+01	3.2631e+01
^{191}Lu	(nγ)^{192}Lu	3.8790e+00	2.5	3.0	0.0100	0.01	3.3e−03	0
	2.1076e+01	8.1701e−02	−5.1290e+00	−5.3738e−01	7.3095e−01	−2.6532e−01	−2.3386e+00	4.4620e+01
^{192}Lu	(nγ)^{193}Lu	5.0130e+00	3.0	2.5	0.0100	0.01	1.0e−03	0
	2.8043e+01	7.4745e−02	−3.6240e+00	−8.6865e+00	1.4426e+00	−2.9006e−01	−1.2635e−01	5.1895e+01
^{193}Lu	(nγ)^{194}Lu	4.0850e+00	2.5	1.0	0.0100	0.01	9.0e−04	0
	2.3330e+01	−6.5767e−03	2.2934e+00	−1.0207e+01	7.4131e−01	−2.2131e−01	3.2826e+00	4.7721e+01
^{194}Lu	(nγ)^{195}Lu	4.9630e+00	1.0	2.5	0.0100	0.01	6.5e−04	0
	3.8225e+01	2.8915e−02	2.7576e+00	−2.6529e+01	2.6722e+00	−3.5776e−01	6.8572e+00	6.1230e+01
^{195}Lu	(nγ)^{196}Lu	3.9690e+00	2.5	3.0	0.0100	0.01	4.6e−04	0
	2.3344e+01	−2.2177e−02	3.7151e+00	−1.2455e+01	9.1141e−01	−2.3031e−01	4.4485e+00	4.6888e+01
^{196}Lu	(nγ)^{197}Lu	4.5530e+00	3.0	3.5	0.0100	0.01	6.8e−05	0
	3.8500e+01	−1.1150e−01	1.3521e+01	−3.9902e+01	3.2655e+00	−3.7882e−01	1.4432e+01	6.2065e+01
^{197}Lu	(nγ)^{198}Lu	1.8080e+00	3.5	2.0	0.0100	0.01	1.4e−03	0
	−1.1776e+01	1.4968e−01	−1.6822e+01	4.0915e+01	−2.1395e+00	−9.8373e−02	−1.6671e+01	1.2393e+01
^{198}Lu	(nγ)^{199}Lu	3.0110e+00	2.0	2.5	0.1700	0.01	3.4e−04	0
	3.0543e+01	7.9140e−02	−3.3671e+00	−1.7633e+01	2.9622e+00	−4.1274e−01	1.2398e+00	5.4058e+01
^{199}Lu	(nγ)^{200}Lu	9.9800e−01	2.5	2.0	0.0300	0.01	1.8e−03	0
	−5.7611e+00	1.3369e−01	−1.3338e+01	2.9100e+01	−1.5554e+00	−1.1984e−01	−1.2287e+01	1.8119e+01
^{200}Lu	(nγ)^{201}Lu	2.5440e+00	2.0	3.5	0.2700	0.01	7.7e−04	0
	9.5037e+00	2.6567e−01	−2.2972e+01	2.5030e+01	1.7109e−01	−2.5949e−01	−1.7154e+01	3.2732e+01
^{201}Lu	(nγ)^{202}Lu	1.5870e+00	3.5	2.0	0.0150	0.01	8.4e−04	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	2.3949e+00	1.2332e−01	−1.1835e+01	2.1176e+01	−1.2843e+00	−1.1180e−01	−1.0214e+01	2.6563e+01
^{172}Hf	(np)^{172}Lu	1.1180e+00	0.0	4.0	0.0100	0.01	9.8e−03	0
	−8.4189e+01	−1.6149e−01	5.0095e+00	7.5343e+01	−3.8321e+00	−1.9684e−01	−9.3631e+00	−8.6386e+01
^{172}Hf	(nα)^{169}Yb	9.5550e+00	0.0	3.5	0.0100	0.01	4.9e−04	0
	8.0047e+01	−8.9823e−01	6.3584e+01	−1.4949e+02	1.4246e+01	−1.0632e+00	5.8511e+01	7.6608e+01
^{173}Hf	(np)^{173}Lu	2.4660e+00	0.5	3.5	0.0100	0.01	5.6e−03	
	6.0671e+01	−1.4297e−01	2.5153e+01	−9.5177e+01	1.3651e+01	−1.3548e+00	3.0711e+01	5.9285e+01
	1.00 1.17	1.54 1.86	2.09 2.25	2.37 2.46	2.51 2.55	3.05 5.58	12.19 41.20	29.47 7.14
^{173}Hf	(nα)^{170}Yb	1.1213e+01	0.5	0.0	0.0100	0.01	6.8e−03	0
	6.0529e+01	−3.8318e−01	3.5034e+01	−9.3486e+01	8.5409e+00	−5.7472e−01	3.4792e+01	5.9862e+01
^{174}Hf	(nγ)^{175}Hf	6.7090e+00	0.0	2.5	0.0100	0.01	1.1e−02	
	−3.5674e+00	2.0528e−01	−2.0173e+01	4.4626e+01	−2.0026e+00	−1.6705e−01	−1.8545e+01	1.8338e+01
	1.00 1.02	1.10 1.16	1.22 1.27	1.31 1.34	1.37 1.39	1.64 1.71	1.44 0.32	0.02 0.00
^{174}Hf	(np)^{174}Lu	5.1000e−01	0.0	1.0	0.0100	0.01	1.8e−02	0
	1.0573e+02	−1.6202e+00	1.8026e+02	−3.1883e+02	2.0142e+01	−1.5670e+00	1.6482e+02	1.0463e+02
^{174}Hf	(nα)^{171}Yb	9.1110e+00	0.0	0.5	0.0100	0.01	3.7e−04	0
	9.9714e+01	−1.6328e+00	9.8995e+01	−2.0926e+02	1.8475e+01	−1.3408e+00	8.5763e+01	9.7661e+01
^{175}Hf	(nγ)^{176}Hf	8.1660e+00	2.5	0.0	0.0100	0.01	6.1e−03	
	5.1810e+00	1.8834e−01	−1.7382e+01	3.2722e+01	−1.2662e+00	−1.6951e−01	−1.4925e+01	3.0670e+01
	1.00 1.00	1.00 1.00	0.99 0.98	0.96 0.95	0.93 0.92	0.86 0.82	0.67 0.17	0.02 0.00
^{175}Hf	(np)^{175}Lu	1.4690e+00	2.5	3.5	0.0100	0.01	2.8e−03	0
	−9.3695e+01	4.3400e−01	−4.8973e+01	1.4080e+02	−4.8307e+00	−2.1865e−01	−5.1508e+01	−9.3982e+01
^{175}Hf	(nα)^{172}Yb	1.0422e+01	2.5	0.0	0.0100	0.01	5.6e−03	
	9.5645e+01	−8.1967e−01	6.7351e+01	−1.6837e+02	1.4807e+01	−1.0252e+00	6.4507e+01	9.6076e+01
	1.00 0.99	0.99 0.99	0.97 0.96	0.95 0.93	0.91 0.90	0.88 1.09	1.65 6.30	21.98 26.30
^{176}Hf	(nγ)^{177}Hf	6.3790e+00	0.0	3.5	0.0100	0.01	1.3e−02	
	−1.2509e+01	2.8266e−01	−2.8046e+01	6.2043e+01	−3.2572e+00	−8.7219e−02	−2.5868e+01	9.1090e+00
	1.00 1.05	1.15 1.23	1.28 1.32	1.34 1.36	1.38 1.40	1.66 1.83	1.51 0.28	0.02 0.00
^{176}Hf	(nα)^{173}Yb	8.6240e+00	0.0	2.5	0.0100	0.01	4.9e−03	0
	6.2502e+01	−3.9968e−01	3.6365e+01	−1.0722e+02	1.2346e+01	−9.5975e−01	3.7705e+01	5.9350e+01
^{177}Hf	(nγ)^{178}Hf	7.6260e+00	3.5	0.0	0.0100	0.01	3.8e−03	
	2.7352e+00	1.5574e−01	−1.5206e+01	3.3269e+01	−1.8670e+00	−1.0171e−01	−1.3879e+01	2.8512e+01
	1.00 1.00	1.01 1.00	0.99 0.99	0.99 0.98	0.97 0.97	0.85 0.72	0.52 0.12	0.01 0.00
^{177}Hf	(np)^{177}Lu	2.8400e−01	3.5	3.5	0.0100	0.01	3.2e−04	0
	1.2429e+02	4.3195e−01	5.6206e+01	−2.1494e+02	1.5305e+01	−1.1522e+00	9.7199e+01	1.2429e+02
^{177}Hf	(nα)^{174}Yb	9.7090e+00	3.5	0.0	0.0100	0.01	5.9e−03	
	1.2830e+02	−2.3082e+00	1.3800e+02	−2.7885e+02	2.1784e+01	−1.4413e+00	1.1734e+02	1.2902e+02
	1.00 1.00	1.00 0.99	0.99 0.98	0.96 0.96	0.94 0.93	0.94 1.25	2.21 12.71	60.56 77.30
^{178}Hf	(nγ)^{179}Hf	6.0990e+00	0.0	4.5	0.0100	0.01	8.9e−03	
	−1.2884e+01	2.4017e−01	−2.4812e+01	5.8850e+01	−3.3422e+00	−6.2083e−02	−2.3674e+01	8.5106e+00
	1.00 1.00	1.04 1.09	1.15 1.21	1.26 1.31	1.36 1.41	1.80 1.91	1.53 0.30	0.02 0.00
^{178}Hf	(nα)^{175}Yb	7.9060e+00	0.0	3.5	0.0100	0.01	6.9e−03	0
	1.1825e+02	−1.9684e+00	1.1954e+02	−2.5964e+02	2.4876e+01	−2.0085e+00	1.0448e+02	1.1481e+02
^{179}Hf	(nγ)^{180}Hf	7.3880e+00	4.5	0.0	0.0100	0.01	3.4e−03	
	9.9330e+00	9.3732e−02	−9.2016e+00	1.8708e+01	−6.7956e−01	−1.8367e−01	−8.2861e+00	3.5933e+01
	1.00 1.00	0.99 0.99	0.98 0.96	0.96 0.94	0.93 0.92	0.79 0.66	0.49 0.12	0.01 0.00
^{179}Hf	(nα)^{176}Yb	8.6710e+00	4.5	0.0	0.0100	0.01	3.0e−03	0
	1.4648e+02	−2.1458e+00	1.3793e+02	−3.0635e+02	2.7208e+01	−2.0459e+00	1.2242e+02	1.4742e+02
^{180}Hf	(nγ)^{181}Hf	5.6960e+00	0.0	0.5	0.0100	0.01	9.0e−03	
	−1.1011e+01	2.4905e−01	−2.5077e+01	5.6074e+01	−2.8348e+00	−1.1145e−01	−2.3334e+01	1.1994e+01
	1.00 1.01	1.04 1.10	1.15 1.20	1.26 1.31	1.37 1.42	1.89 2.05	1.63 0.31	0.02 0.00
^{180}Hf	(nα)^{177}Yb	6.8500e+00	0.0	4.5	0.0100	0.01	2.3e−02	0
	3.8534e+01	−1.1772e+00	5.3966e+01	−1.1123e+02	1.4413e+01	−1.2387e+00	4.4134e+01	3.4871e+01
^{181}Hf	(nγ)^{182}Hf	6.7170e+00	0.5	0.0	0.0100	0.01	4.1e−03	
	−8.7164e+00	2.1791e−01	−2.2075e+01	5.1232e+01	−3.2976e+00	−9.8686e−03	−2.0763e+01	1.5674e+01
	1.00 1.11	1.26 1.37	1.46 1.54	1.60 1.68	1.73 1.79	2.09 1.85	1.24 0.22	0.02 0.00
^{181}Hf	(nα)^{178}Yb	7.9340e+00	0.5	0.0	0.0100	0.01	2.9e−03	0
	8.4857e+01	−1.5640e+00	8.7334e+01	−1.8935e+02	1.7992e+01	−1.2634e+00	7.5079e+01	8.4189e+01
^{182}Hf	(nγ)^{183}Hf	5.2970e+00	0.0	1.5	0.0100	0.01	8.1e−03	
	3.3069e+00	1.6663e−01	−1.5801e+01	2.9679e+01	−3.6763e−01	−3.0422e−01	−1.3770e+01	2.5618e+01
	1.00 1.00	1.03 1.07	1.11 1.17	1.23 1.29	1.34 1.40	1.92 2.07	1.75 0.42	0.03 0.00

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{182}Hf	$(n\alpha)^{179}$Yb	5.9370e+00	0.0	0.5	0.0100	0.01	3.8e−02	0
	−3.4326e+01	−3.0986e−01	−1.6026e+01	3.1080e+01	7.4880e+00	−1.0142e+00	−1.8155e+01	−3.6381e+01
^{183}Hf	$(n\gamma)^{184}$Hf	6.2860e+00	1.5	0.0	0.0100	0.01	4.9e−03	
	−2.8034e+01	3.4134e−01	−3.5954e+01	8.5984e+01	−5.9493e+00	1.7165e−01	−3.4586e+01	−2.9500e+00
	1.00 1.00	1.00 0.99	0.99 0.99	1.00 1.00	1.01 1.01	1.19 1.24	0.79 0.12	0.01 0.00
^{183}Hf	$(n\alpha)^{180}$Yb	6.6500e+00	1.5	0.0	0.0100	0.01	7.8e−02	0
	2.9613e+00	−4.0982e−01	−2.7188e+00	−2.0467e+01	1.0959e+01	−1.1400e+00	−1.9188e+00	2.9861e+00
^{184}Hf	$(n\gamma)^{185}$Hf	4.7490e+00	0.0	5.5	0.0100	0.01	1.0e−02	0
	−8.6503e+00	2.6065e−01	−2.5433e+01	5.2233e+01	−2.0301e+00	−2.0116e−01	−2.2881e+01	1.2562e+01
^{185}Hf	$(n\gamma)^{186}$Hf	6.4890e+00	5.5	0.0	0.0100	0.01	2.5e−03	0
	1.8332e+01	3.8102e−02	−2.9086e+00	1.8165e+00	4.7073e−01	−2.5124e−01	−1.8785e+00	4.4515e+01
^{186}Hf	$(n\gamma)^{187}$Hf	4.5760e+00	0.0	3.5	0.0100	0.01	3.7e−03	0
	−9.7169e+00	1.0804e−01	−1.3276e+01	4.1770e+01	−2.9106e+00	−5.7118e−02	−1.4515e+01	1.1901e+01
^{187}Hf	$(n\gamma)^{188}$Hf	5.9420e+00	3.5	0.0	0.0100	0.01	2.6e−03	0
	6.5261e+00	7.1485e−02	−7.5991e+00	1.9066e+01	−1.2038e+00	−1.3098e−01	−7.4410e+00	3.2303e+01
^{188}Hf	$(n\gamma)^{189}$Hf	4.0710e+00	0.0	4.5	0.0100	0.01	4.7e−03	0
	−4.2187e+00	1.9271e−02	−4.9640e+00	2.6985e+01	−2.2930e+00	−7.4612e−02	−7.4214e+00	1.7177e+01
^{189}Hf	$(n\gamma)^{190}$Hf	5.7850e+00	4.5	0.0	0.0200	0.01	2.9e−03	0
	1.4789e+01	4.9440e−02	−4.2293e+00	5.7417e+00	5.3205e−02	−2.2082e−01	−3.2728e+00	4.0789e+01
^{190}Hf	$(n\gamma)^{191}$Hf	3.5360e+00	0.0	0.5	0.0100	0.01	2.7e−03	0
	−3.8300e+01	2.9270e−01	−3.3224e+01	9.2575e+01	−6.9590e+00	2.1311e−01	−3.4183e+01	−1.5296e+01
^{191}Hf	$(n\gamma)^{192}$Hf	5.9020e+00	0.5	0.0	0.0300	0.01	3.8e−03	0
	1.9262e+01	2.8807e−01	−2.1690e+01	1.8410e+01	6.1693e−01	−3.1359e−01	−1.4210e+01	4.3653e+01
^{192}Hf	$(n\gamma)^{193}$Hf	3.9840e+00	0.0	0.5	0.0100	0.01	3.2e−03	0
	−2.8124e+01	2.5560e−01	−2.8400e+01	7.6133e+01	−5.3180e+00	8.3510e−02	−2.8715e+01	−5.1192e+00
^{193}Hf	$(n\gamma)^{194}$Hf	5.6230e+00	0.5	0.0	0.0250	0.01	4.3e−03	0
	2.8898e+01	5.7135e−02	−8.3784e−01	−1.3113e+01	1.6531e+00	−3.3060e−01	2.6546e+00	5.3289e+01
^{194}Hf	$(n\gamma)^{195}$Hf	4.0430e+00	0.0	1.5	0.0100	0.01	3.2e−03	0
	−5.1212e+01	4.4795e−01	−4.7963e+01	1.2118e+02	−8.5784e+00	2.9628e−01	−4.7090e+01	−2.8900e+01
^{195}Hf	$(n\gamma)^{196}$Hf	5.4140e+00	1.5	0.0	0.0450	0.01	1.0e−03	0
	−3.9714e+01	3.2566e−01	−3.6465e+01	9.7908e+01	−7.5622e+00	3.0108e−01	−3.6963e+01	−1.4629e+01
^{196}Hf	$(n\gamma)^{197}$Hf	3.9870e+00	0.0	0.5	0.0100	0.01	4.6e−03	0
	−1.8786e+01	2.6186e−01	−2.7128e+01	6.2502e+01	−3.4360e+00	−6.2449e−02	−2.5711e+01	4.2193e+00
^{197}Hf	$(n\gamma)^{198}$Hf	5.0080e+00	0.5	0.0	0.1100	0.01	9.3e−04	0
	−3.4716e+01	2.8378e−01	−3.2219e+01	8.5540e+01	−6.2324e+00	2.0143e−01	−3.2727e+01	−1.0325e+01
^{198}Hf	$(n\gamma)^{199}$Hf	1.8340e+00	0.0	4.5	0.0600	0.01	2.2e−02	0
	−2.3273e+01	2.6429e−01	−2.6989e+01	6.1519e+01	−2.5669e+00	−1.9104e−01	−2.5412e+01	−1.8777e+00
^{199}Hf	$(n\gamma)^{200}$Hf	3.4360e+00	4.5	0.0	1.6750	0.01	2.0e−03	0
	−1.9137e+01	1.8923e−01	−2.1238e+01	5.3346e+01	−3.2567e+00	−2.6345e−02	−2.1198e+01	6.8640e+00
^{200}Hf	$(n\gamma)^{201}$Hf	1.2180e+00	0.0	1.5	0.2750	0.01	1.6e−02	0
	−6.2303e+01	4.9657e−01	−5.3344e+01	1.3140e+02	−8.8807e+00	2.8669e−01	−5.2114e+01	−3.9991e+01
^{201}Hf	$(n\gamma)^{202}$Hf	2.8790e+00	1.5	0.0	2.2050	0.01	4.8e−04	0
	−4.7477e+01	2.8758e−01	−3.4145e+01	9.9069e+01	−8.3595e+00	3.8613e−01	−3.6032e+01	−2.2393e+01
^{202}Hf	$(n\gamma)^{203}$Hf	1.2740e+00	0.0	0.5	0.2800	0.01	1.3e−02	0
	−1.0582e+02	7.0993e−01	−7.8426e+01	2.0713e+02	−1.6102e+01	8.2468e−01	−7.8776e+01	−8.2818e+01
^{203}Hf	$(n\gamma)^{204}$Hf	3.1330e+00	0.5	0.0	1.1800	0.01	1.9e−03	0
	−1.0828e+01	3.1832e−01	−2.9075e+01	5.5421e+01	−4.0506e+00	7.5804e−02	−2.4816e+01	1.3563e+01
^{176}Ta	$(np)^{176}$Hf	3.8930e+00	1.0	0.0	0.0100	0.01	1.1e−02	
	4.8875e+01	−6.4028e−02	1.3810e+01	−6.2026e+01	7.8760e+00	−6.0920e−01	1.8208e+01	4.9974e+01
	1.11 1.13	1.00 0.85	0.72 0.63	0.57 0.52	0.49 0.47	0.44 0.57	0.89 3.87	16.31 21.75
^{176}Ta	$(n\alpha)^{173}$Lu	1.1063e+01	1.0	3.5	0.0100	0.01	5.7e−03	0
	4.9472e+01	−2.8408e−01	2.2588e+01	−6.8083e+01	6.4331e+00	−3.7433e−01	2.4017e+01	4.7131e+01
^{177}Ta	$(np)^{177}$Hf	1.9490e+00	3.5	3.5	0.0100	0.01	7.7e−03	0
	−3.8965e+01	4.9299e−01	−4.5955e+01	8.0895e+01	2.1567e+00	−7.2555e−01	−3.9815e+01	−3.8965e+01
^{177}Ta	$(n\alpha)^{174}$Lu	9.5020e+00	3.5	1.0	0.0100	0.01	1.7e−03	0
	1.0263e+02	−5.7139e−01	5.8113e+01	−1.7009e+02	1.7138e+01	−1.2869e+00	6.0302e+01	1.0225e+02
^{178}Ta	$(np)^{178}$Hf	2.6950e+00	0.0	0.0	0.0100	0.01	1.8e−01	
	−1.9602e+01	4.6814e−01	−3.9874e+01	6.0668e+01	2.0023e+00	−6.2853e−01	−3.2088e+01	−1.9602e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.32	10.41 4.42	1.60 0.40
^{178}Ta	$(n\alpha)^{175}$Lu	1.0288e+01	0.0	3.5	0.0100	0.01	1.1e−01	0
	1.1975e+00	1.4906e−01	−1.5551e+01	1.9667e+01	1.7251e+00	−2.5359e−01	−1.1951e+01	−2.2427e+00

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{179}Ta	(nγ)^{180}Ta	6.6450e+00	3.5	1.0	0.0100	0.01	3.1e−03	
		−2.5734e+00	2.1438e−01	−2.0887e+01	4.5137e+01	−2.6627e+00	−5.1005e−02	−1.8974e+01	2.2105e+01
		1.02 1.05	1.05 1.03	1.03 1.01	1.00 0.99	0.98 0.97	0.90 0.77	0.55 0.12	0.01 0.00
^{179}Ta	(np)^{179}Hf	8.9300e−01	3.5	4.5	0.0100	0.01	3.2e−02	0
		−9.6350e+01	−4.6019e−01	3.0096e+01	5.8436e+01	−5.7712e+00	8.8637e−02	8.1252e+00	−9.6573e+01
^{179}Ta	(nα)^{176}Lu	8.6760e+00	3.5	7.0	0.0100	0.01	7.8e−04	0
		9.6293e+01	−1.0655e+00	7.4802e+01	−1.8568e+02	1.8691e+01	−1.4322e+00	7.0155e+01	9.4303e+01
^{180}Ta	(nγ)^{181}Ta	7.5770e+00	1.0	3.5	0.0100	0.01	6.6e−04	
		8.5383e+00	1.0417e−01	−9.6884e+00	2.2090e+01	−1.4756e+00	−8.0673e−02	−8.7354e+00	3.1255e+01
		1.01 1.05	1.10 1.13	1.13 1.12	1.11 1.09	1.08 1.07	0.90 0.69	0.44 0.11	0.02 0.00
^{180}Ta	(np)^{180}Hf	1.6360e+00	1.0	0.0	0.0100	0.01	1.3e−02	0
		−1.5388e+02	8.5189e−01	−9.4142e+01	2.5548e+02	−1.6196e+01	9.1385e−01	−9.5914e+01	−1.5278e+02
^{180}Ta	(nα)^{177}Lu	9.1030e+00	1.0	3.5	0.0100	0.01	9.3e−03	0
		8.5745e+01	−6.8398e−01	6.0730e+01	−1.5712e+02	1.4984e+01	−1.0394e+00	5.9280e+01	8.3404e+01
^{181}Ta	(nγ)^{182}Ta	6.0630e+00	3.5	3.0	0.0100	0.01	5.9e−03	
		−5.0922e+00	2.0859e−01	−2.1225e+01	4.7475e+01	−2.7380e+00	−6.1623e−02	−1.9823e+01	1.8739e+01
		0.96 1.00	1.02 1.02	1.03 1.02	1.02 1.01	1.00 0.99	0.92 0.84	0.61 0.12	0.01 0.00
^{181}Ta	(nα)^{178}Lu	7.5510e+00	3.5	0.0	0.0100	0.01	9.9e−03	0
		5.1036e+01	−1.1973e−01	1.8143e+01	−8.6574e+01	1.4349e+01	−1.2831e+00	2.4021e+01	5.1754e+01
^{182}Ta	(nγ)^{183}Ta	6.9340e+00	3.0	3.5	0.0100	0.01	2.2e−03	
		1.3291e+01	1.2404e−01	−1.0907e+01	1.6813e+01	−3.0653e−01	−1.9939e−01	−8.7529e+00	3.6855e+01
		1.23 1.17	1.12 1.09	1.04 1.00	0.97 0.93	0.90 0.87	0.71 0.62	0.46 0.13	0.02 0.00
^{182}Ta	(np)^{182}Hf	4.0900e−01	3.0	0.0	0.0100	0.01	2.6e−03	0
		1.5445e+02	−1.1622e+00	1.6845e+02	−3.6435e+02	2.2777e+01	−1.5100e+00	1.7492e+02	1.5639e+02
^{182}Ta	(nα)^{179}Lu	8.2810e+00	3.0	3.5	0.0100	0.01	4.6e−03	0
		1.7063e+02	−2.2397e+00	1.4882e+02	−3.4738e+02	3.1915e+01	−2.4114e+00	1.3538e+02	1.6914e+02
^{183}Ta	(nγ)^{184}Ta	5.6160e+00	3.5	5.0	0.0100	0.01	2.8e−03	
		−7.5160e+00	2.1342e−01	−2.2068e+01	5.0635e+01	−3.1550e+00	−2.1373e−02	−2.0865e+01	1.5863e+01
		1.00 0.99	0.98 0.96	0.95 0.93	0.92 0.92	0.91 0.91	0.89 0.76	0.52 0.11	0.01 0.00
^{183}Ta	(nα)^{180}Lu	7.0370e+00	3.5	3.0	0.0100	0.01	3.1e−02	0
		7.5987e+01	−1.4390e+00	7.5302e+01	−1.7423e+02	2.0145e+01	−1.6580e+00	6.5844e+01	7.4759e+01
^{184}Ta	(nγ)^{185}Ta	6.6280e+00	5.0	3.5	0.0100	0.01	7.3e−04	
		8.5356e+00	2.1269e−02	−3.6195e+00	1.5832e+01	−1.7707e+00	−1.7878e−02	−4.7137e+00	3.2552e+01
		1.00 1.01	0.99 0.98	0.96 0.94	0.93 0.92	0.91 0.89	0.68 0.38	0.19 0.04	0.01 0.00
^{184}Ta	(nα)^{181}Lu	7.5570e+00	5.0	3.5	0.0100	0.01	9.9e−04	0
		8.2062e+01	−1.6006e+00	9.0633e+01	−1.9177e+02	1.8305e+01	−1.3116e+00	7.7584e+01	8.1018e+01
^{185}Ta	(nγ)^{186}Ta	5.2850e+00	3.5	4.5	0.0100	0.01	1.3e−03	
		6.0617e−01	1.1830e−01	−1.2760e+01	3.2291e+01	−2.2462e+00	−5.3459e−02	−1.2573e+01	2.4081e+01
		1.00 1.00	1.00 1.00	1.00 0.99	0.98 0.98	0.97 0.97	0.85 0.64	0.40 0.08	0.01 0.00
^{185}Ta	(nα)^{182}Lu	5.8950e+00	3.5	6.5	0.0100	0.01	4.0e−02	0
		−4.3663e+01	−3.3779e−01	−1.7862e+01	4.3196e+01	5.7838e+00	−8.4736e−01	−2.1382e+01	−4.5584e+01
^{186}Ta	(nγ)^{187}Ta	6.5810e+00	4.5	3.5	0.0100	0.01	5.6e−04	0
		2.2833e+01	2.1084e−02	−1.0504e+00	−3.2582e+00	6.0265e−01	−2.2182e−01	1.0687e−02	4.6754e+01
^{187}Ta	(nγ)^{188}Ta	4.9560e+00	3.5	0.0	0.0100	0.01	2.1e−03	0
		5.1660e+00	8.8165e−02	−9.2950e+00	2.3234e+01	−1.5413e+00	−1.0474e−01	−9.0572e+00	3.0943e+01
^{188}Ta	(nγ)^{189}Ta	6.0720e+00	0.0	3.5	0.0100	0.01	2.9e−04	0
		6.9525e+00	3.0266e−01	−2.5885e+01	3.8774e+01	−1.6808e+00	−1.0107e−01	−2.0261e+01	2.8571e+01
^{189}Ta	(nγ)^{190}Ta	4.5630e+00	3.5	5.0	0.0100	0.01	2.0e−03	0
		1.0114e+01	6.1355e−02	−6.1393e+00	1.4158e+01	−8.3500e−01	−1.4987e−01	−5.7423e+00	3.3494e+01
^{190}Ta	(nγ)^{191}Ta	6.0140e+00	5.0	4.5	0.0100	0.01	1.0e−03	0
		3.1553e+01	3.8539e−02	−3.6577e−01	−1.5294e+01	2.0452e+00	−3.3420e−01	2.6699e+00	5.5346e+01
^{191}Ta	(nγ)^{192}Ta	3.7490e+00	4.5	2.0	0.0100	0.01	2.8e−03	0
		6.7532e+00	8.3845e−02	−8.5552e+00	1.8997e+01	−9.4495e−01	−1.6181e−01	−7.9941e+00	3.1144e+01
^{192}Ta	(nγ)^{193}Ta	5.9730e+00	2.0	1.5	0.0100	0.01	6.9e−04	0
		1.8716e+01	2.3739e−01	−1.8541e+01	1.7620e+01	5.1666e−02	−2.1633e−01	−1.2671e+01	4.2637e+01
^{193}Ta	(nγ)^{194}Ta	4.4640e+00	1.5	1.0	0.0100	0.01	3.0e−03	0
		2.8168e+01	2.4571e−02	8.9539e−01	−1.3474e+01	1.6067e+00	−3.1987e−01	3.3017e+00	5.2154e+01
^{194}Ta	(nγ)^{195}Ta	5.7020e+00	1.0	1.5	0.0100	0.01	9.1e−04	0
		2.2846e+01	2.0328e−01	−1.4533e+01	8.7760e+00	6.5118e−01	−2.5867e−01	−8.7437e+00	4.6257e+01
^{195}Ta	(nγ)^{196}Ta	4.4700e+00	1.5	2.0	0.0100	0.01	1.3e−03	0
		2.8060e+01	−3.6797e−02	5.8617e+00	−1.8517e+01	1.4449e+00	−2.7685e−01	6.8262e+00	5.1535e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{196}Ta	$(n\gamma)^{197}$Ta	5.4570e+00	2.0	1.5	0.0100	0.01	2.8e−04	0
		4.0862e+01	−8.6561e−02	1.1909e+01	−3.8434e+01	3.2725e+00	−3.9030e−01	1.3500e+01	6.4783e+01
^{197}Ta	$(n\gamma)^{198}$Ta	4.3810e+00	1.5	1.0	0.0100	0.01	4.8e−04	0
		3.3356e+01	−8.4883e−02	1.0842e+01	−3.0215e+01	2.3137e+00	−3.2468e−01	1.1562e+01	5.7342e+01
^{198}Ta	$(n\gamma)^{199}$Ta	5.0220e+00	1.0	4.5	0.0100	0.01	1.6e−04	0
		4.8210e+01	−6.2239e−02	1.2287e+01	−4.8604e+01	4.3800e+00	−4.6338e−01	1.5915e+01	7.0704e+01
^{199}Ta	$(n\gamma)^{200}$Ta	2.2600e+00	4.5	5.0	0.0100	0.01	1.4e−03	0
		1.7419e+00	9.3560e−02	−1.0039e+01	1.9953e+01	−1.3466e−01	−2.4895e−01	−9.3473e+00	2.5345e+01
^{200}Ta	$(n\gamma)^{201}$Ta	3.4900e+00	5.0	4.5	0.1100	0.01	1.3e−04	0
		3.6782e+01	−5.3353e−02	8.3338e+00	−3.5340e+01	3.7499e+00	−4.4486e−01	1.0590e+01	6.0575e+01
^{201}Ta	$(n\gamma)^{202}$Ta	1.5330e+00	4.5	5.0	0.0200	0.01	1.5e−03	0
		−3.3329e+00	1.3717e−01	−1.3978e+01	2.8754e+01	−1.1971e+00	−1.5781e−01	−1.2811e+01	2.0270e+01
^{202}Ta	$(n\gamma)^{203}$Ta	3.0030e+00	5.0	4.5	0.1250	0.01	6.6e−04	0
		2.9267e+01	6.7469e−02	−3.0049e+00	−1.6084e+01	2.7561e+00	−4.0739e−01	1.0128e+00	5.3060e+01
^{203}Ta	$(n\gamma)^{204}$Ta	1.7370e+00	4.5	4.0	0.0100	0.01	6.3e−04	0
		1.3790e+00	1.0298e−01	−1.0442e+01	2.1448e+01	−1.3542e+00	−1.0953e−01	−9.5285e+00	2.5183e+01
^{204}Ta	$(n\gamma)^{205}$Ta	3.0770e+00	4.0	4.5	0.0500	0.01	1.2e−03	0
		1.7540e+01	1.6529e−01	−1.2933e+01	8.1063e+00	6.3714e−01	−2.6778e−01	−8.4264e+00	4.1134e+01
^{205}Ta	$(n\gamma)^{206}$Ta	1.8800e+00	4.5	5.0	0.0100	0.01	4.9e−04	0
		−7.1564e+00	1.4008e−01	−1.4901e+01	3.6870e+01	−3.2325e+00	4.0596e−02	−1.4489e+01	1.6447e+01
^{178}W	$(np)^{178}$Ta	8.7300e−01	0.0	0.0	0.0100	0.01	1.6e−01	0
		9.6773e+01	−1.6396e+00	1.6063e+02	−2.9297e+02	2.3681e+01	−1.8229e+00	1.3990e+02	9.6773e+01
^{178}W	$(n\alpha)^{175}$Hf	9.6930e+00	0.0	2.5	0.0100	0.01	5.9e−04	0
		7.7010e+01	−1.1371e+00	7.1548e+01	−1.5456e+02	1.4069e+01	−1.0223e+00	6.2840e+01	7.3857e+01
^{179}W	$(np)^{179}$Ta	1.8420e+00	3.5	3.5	0.0100	0.01	1.8e−03	0
		−5.8483e+01	3.9055e−01	−4.0024e+01	9.6194e+01	−8.5093e−01	−4.6073e−01	−3.8903e+01	−5.8483e+01
^{179}W	$(n\alpha)^{176}$Hf	1.0926e+01	3.5	0.0	0.0100	0.01	2.8e−03	0
		4.8818e+01	−4.5905e−01	3.5171e+01	−8.2092e+01	6.7816e+00	−3.5937e−01	3.2714e+01	4.9536e+01
^{180}W	$(n\gamma)^{181}$W	6.6810e+00	0.0	4.5	0.0100	0.01	1.0e−02	
		−1.2101e+01	2.4802e−01	−2.5202e+01	5.9190e+01	−3.3095e+00	−7.1984e−02	−2.3828e+01	9.2939e+00
		1.00 1.00	1.03 1.08	1.13 1.17	1.22 1.25	1.29 1.33	1.62 1.72	1.39 0.26	0.02 0.00
^{180}W	$(np)^{180}$Ta	7.4000e−02	0.0	1.0	0.0100	0.01	3.2e−03	0
		3.9816e+01	2.6413e+00	−1.1611e+02	5.4189e+01	−2.4801e+00	−2.5459e−03	−2.8206e+01	3.8718e+01
^{180}W	$(n\alpha)^{177}$Hf	8.8930e+00	0.0	3.5	0.0100	0.01	2.9e−03	0
		1.1348e+02	−2.7521e+00	1.4705e+02	−2.7687e+02	2.2895e+01	−1.6331e+00	1.1982e+02	1.1004e+02
^{181}W	$(n\gamma)^{182}$W	8.0650e+00	4.5	0.0	0.0100	0.01	4.0e−03	
		3.4736e+00	1.6380e−01	−1.5639e+01	3.3237e+01	−1.6984e+00	−1.2658e−01	−1.4033e+01	2.9474e+01
		1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.97	0.88 0.74	0.55 0.13	0.01 0.00
^{181}W	$(np)^{181}$Ta	9.7100e−01	4.5	3.5	0.0100	0.01	4.4e−02	0
		−6.9247e+01	−7.7146e−01	5.7916e+01	1.7116e+00	−2.5172e+00	4.0500e−02	3.2004e+01	−6.9024e+01
^{181}W	$(n\alpha)^{178}$Hf	9.8390e+00	4.5	0.0	0.0100	0.01	6.9e−03	0
		1.0916e+02	−1.2086e+00	8.8891e+01	−2.1009e+02	1.8686e+01	−1.3309e+00	8.2261e+01	1.1010e+02
^{182}W	$(n\gamma)^{183}$W	6.1910e+00	0.0	0.5	0.0100	0.01	1.2e−02	
		−1.4014e+01	2.7194e−01	−2.7513e+01	6.2848e+01	−3.3886e+00	−8.0741e−02	−2.5786e+01	8.9902e+00
		1.00 1.02	1.07 1.14	1.20 1.25	1.29 1.33	1.37 1.41	1.80 1.97	1.65 0.30	0.02 0.00
^{182}W	$(n\alpha)^{179}$Hf	7.8730e+00	0.0	4.5	0.0100	0.01	6.9e−03	0
		7.1368e+01	−6.9416e−01	5.1228e+01	−1.4024e+02	1.7299e+01	−1.4970e+00	5.0179e+01	6.7704e+01
^{183}W	$(n\gamma)^{184}$W	7.4120e+00	0.5	0.0	0.0100	0.01	6.2e−03	
		4.0104e+00	1.5331e−01	−1.4944e+01	3.0551e+01	−1.1875e+00	−1.8497e−01	−1.3428e+01	2.8401e+01
		1.00 1.04	1.09 1.14	1.17 1.21	1.23 1.26	1.27 1.29	1.36 1.33	1.05 0.23	0.02 0.00
^{183}W	$(n\alpha)^{180}$Hf	9.0710e+00	0.5	0.0	0.0100	0.01	3.2e−03	0
		1.3507e+02	−1.1679e+00	9.6329e+01	−2.5052e+02	2.3988e+01	−1.8230e+00	9.3339e+01	1.3440e+02
^{184}W	$(n\gamma)^{185}$W	5.7540e+00	0.0	1.5	0.0100	0.01	8.6e−03	
		−9.4147e+00	2.2966e−01	−2.3278e+01	5.2874e+01	−2.6735e+00	−1.2328e−01	−2.1808e+01	1.2897e+01
		1.00 1.01	1.04 1.09	1.14 1.19	1.24 1.28	1.33 1.37	1.79 1.95	1.60 0.33	0.03 0.00
^{184}W	$(n\alpha)^{181}$Hf	7.3540e+00	0.0	0.5	0.0100	0.01	9.6e−03	0
		8.3320e+01	−5.2597e−01	4.6470e+01	−1.5268e+02	2.0491e+01	−1.8475e+00	5.0007e+01	8.1265e+01
^{185}W	$(n\gamma)^{186}$W	7.1940e+00	1.5	0.0	0.0100	0.01	4.1e−03	
		−4.0089e+00	1.8923e−01	−1.9735e+01	4.3795e+01	−2.1660e+00	−1.2135e−01	−1.8587e+01	2.1075e+01
		0.98 0.95	0.92 0.91	0.90 0.91	0.93 0.94	0.96 0.98	1.15 1.15	0.92 0.21	0.02 0.00
^{185}W	$(n\alpha)^{182}$Hf	8.3170e+00	1.5	0.0	0.0100	0.01	4.0e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.1688e+02	−7.8521e−01	7.1480e+01	−2.1052e+02	2.2983e+01	−1.8804e+00	7.3474e+01	1.1691e+02
^{186}W	$(n\gamma)^{187}$W	5.4670e+00	0.0	1.5	0.0100	0.01	7.5e−03	
	−2.9587e+00	1.8909e−01	−1.8846e+01	4.0343e+01	−1.5101e+00	−2.1259e−01	−1.7290e+01	1.9353e+01
	1.00 1.00	1.00 1.02	1.05 1.09	1.13 1.18	1.22 1.27	1.72 1.89	1.65 0.39	0.03 0.00
^{186}W	$(n\alpha)^{183}$Hf	6.4210e+00	0.0	1.5	0.0100	0.01	4.5e−02	0
	3.3040e+01	8.7169e−02	−1.1841e+00	−5.7017e+01	1.5521e+01	−1.5661e+00	8.2894e+00	3.0292e+01
^{187}W	$(n\gamma)^{188}$W	6.8340e+00	1.5	0.0	0.0100	0.01	4.9e−03	
	−4.9705e+00	2.2139e−01	−2.2185e+01	4.6779e+01	−2.2888e+00	−1.1741e−01	−2.0301e+01	2.0114e+01
	1.00 1.00	1.00 0.99	0.99 0.98	0.98 0.98	0.98 0.98	1.13 1.16	0.92 0.21	0.02 0.00
^{187}W	$(n\alpha)^{184}$Hf	7.2400e+00	1.5	0.0	0.0100	0.01	1.5e−02	0
	6.9127e+01	−2.5167e−01	2.8988e+01	−1.2128e+02	1.7378e+01	−1.4389e+00	3.5675e+01	6.9151e+01
^{188}W	$(n\gamma)^{189}$W	4.8810e+00	0.0	1.5	0.0100	0.01	9.6e−03	0
	−1.3364e+01	2.8070e−01	−2.7916e+01	5.9837e+01	−2.7817e+00	−1.4251e−01	−2.5573e+01	8.9479e+00
^{189}W	$(n\gamma)^{190}$W	6.8800e+00	1.5	0.0	0.0100	0.01	2.1e−03	0
	2.7578e+00	1.0084e−01	−1.0630e+01	2.8153e+01	−1.9435e+00	−8.5470e−02	−1.0520e+01	2.7842e+01
^{190}W	$(n\gamma)^{191}$W	5.1330e+00	0.0	4.5	0.0100	0.01	2.5e−03	0
	−3.9989e+01	3.6405e−01	−3.9463e+01	1.0254e+02	−7.3914e+00	2.3487e−01	−3.9214e+01	−1.8593e+01
^{191}W	$(n\gamma)^{192}$W	6.3780e+00	4.5	0.0	0.0100	0.01	3.0e−03	0
	−6.4877e+00	1.6089e−01	−1.7371e+01	4.3497e+01	−2.8975e+00	−3.5687e−02	−1.7080e+01	1.9513e+01
^{192}W	$(n\gamma)^{193}$W	3.7690e+00	0.0	0.5	0.0100	0.01	2.4e−03	0
	−3.2410e+01	2.8463e−01	−3.1666e+01	8.4646e+01	−5.7831e+00	1.0842e−01	−3.2008e+01	−9.4050e+00
^{193}W	$(n\gamma)^{194}$W	6.4460e+00	0.5	0.0	0.0200	0.01	2.3e−03	0
	2.0645e+01	2.2177e−01	−1.6144e+01	1.2450e+01	4.1584e−01	−2.6119e−01	−1.0155e+01	4.5037e+01
^{194}W	$(n\gamma)^{195}$W	4.5670e+00	0.0	0.5	0.0100	0.01	3.5e−03	0
	−1.4162e+01	9.3382e−02	−1.2984e+01	4.6423e+01	−3.5995e+00	−1.6173e−03	−1.5241e+01	8.8434e+00
^{195}W	$(n\gamma)^{196}$W	6.2490e+00	0.5	0.0	0.0150	0.01	3.2e−03	0
	3.5640e+01	−3.1235e−02	7.1532e+00	−2.8068e+01	2.7246e+00	−4.0002e−01	9.4148e+00	6.0031e+01
^{196}W	$(n\gamma)^{197}$W	4.5270e+00	0.0	1.5	0.0100	0.01	6.9e−03	0
	−4.0303e+01	4.2316e−01	−4.4087e+01	1.0528e+02	−6.6878e+00	1.3873e−01	−4.2236e+01	−1.7991e+01
^{197}W	$(n\gamma)^{198}$W	6.0020e+00	1.5	0.0	0.0300	0.01	6.9e−04	0
	4.3571e−02	1.1084e−01	−1.2305e+01	3.1377e+01	−2.2877e+00	−4.3269e−02	−1.2270e+01	2.5128e+01
^{198}W	$(n\gamma)^{199}$W	4.4740e+00	0.0	0.5	0.0100	0.01	2.1e−02	0
	1.0383e+02	−5.8890e−01	6.3496e+01	−1.6635e+02	1.4564e+01	−1.2415e+00	6.3031e+01	1.2684e+02
^{199}W	$(n\gamma)^{200}$W	5.4010e+00	0.5	0.0	0.1050	0.01	1.4e−03	0
	−3.1977e+01	2.9434e−01	−3.2671e+01	8.3037e+01	−5.5247e+00	1.2805e−01	−3.2563e+01	−7.5852e+00
^{200}W	$(n\gamma)^{201}$W	2.2660e+00	0.0	4.5	0.0550	0.01	1.9e−02	0
	−7.5068e+00	1.9290e−01	−1.8838e+01	3.6220e+01	4.7627e−02	−3.9405e−01	−1.6754e+01	1.3889e+01
^{201}W	$(n\gamma)^{202}$W	3.9810e+00	4.5	0.0	1.3150	0.01	1.5e−03	0
	−5.7858e+00	1.2895e−01	−1.4123e+01	3.2176e+01	−1.2925e+00	−1.6806e−01	−1.3653e+01	2.0215e+01
^{202}W	$(n\gamma)^{203}$W	1.6850e+00	0.0	1.5	0.1850	0.01	1.9e−02	0
	−4.6554e+01	4.3686e−01	−4.5854e+01	1.0715e+02	−6.2991e+00	7.5447e−02	−4.3835e+01	−2.4242e+01
^{203}W	$(n\gamma)^{204}$W	3.3950e+00	1.5	0.0	1.7050	0.01	9.5e−04	0
	−4.1027e+01	3.0573e−01	−3.4561e+01	9.2718e+01	−7.1074e+00	2.6449e−01	−3.5141e+01	−1.5942e+01
^{204}W	$(n\gamma)^{205}$W	1.4720e+00	0.0	0.5	0.1800	0.01	1.9e−02	0
	−9.0305e+01	6.6882e−01	−7.2401e+01	1.8336e+02	−1.3214e+01	5.7397e−01	−7.1423e+01	−6.7300e+01
^{205}W	$(n\gamma)^{206}$W	3.4500e+00	0.5	0.0	1.0350	0.01	3.6e−04	0
	−8.7164e+00	1.9761e−02	−5.4131e+00	2.9351e+01	−3.5940e+00	1.0142e−01	−8.0955e+00	1.5675e+01
^{206}W	$(n\gamma)^{207}$W	1.6660e+00	0.0	2.5	0.0500	0.01	1.3e−02	0
	−1.0770e+02	7.1535e−01	−7.9151e+01	2.1261e+02	−1.7136e+01	9.2042e−01	−7.9896e+01	−8.5797e+01
^{207}W	$(n\gamma)^{208}$W	3.6050e+00	2.5	0.0	0.4500	0.01	4.0e−03	0
	−1.3237e+01	3.1250e−01	−2.9527e+01	5.9213e+01	−4.2040e+00	6.1290e−02	−2.5942e+01	1.2253e+01
^{180}Re	$(np)^{180}$W	4.5850e+00	1.0	0.0	0.0100	0.01	1.2e−02	
	7.4222e+01	−1.9431e−01	2.8802e+01	−1.0398e+02	1.1746e+01	−9.8415e−01	3.3693e+01	7.5320e+01
	1.11 1.15	1.05 0.92	0.79 0.70	0.63 0.58	0.54 0.51	0.45 0.52	0.71 2.56	4.41 2.10
^{180}Re	$(n\alpha)^{177}$Ta	1.1529e+01	1.0	3.5	0.0100	0.01	3.8e−03	0
	4.6221e+01	−2.9674e−01	2.3105e+01	−6.4187e+01	5.6567e+00	−3.0116e−01	2.3710e+01	4.3879e+01
^{181}Re	$(np)^{181}$W	2.5210e+00	2.5	4.5	0.0100	0.01	2.4e−03	
	2.2107e+01	−7.2299e−02	1.1708e+01	−3.9737e+01	8.4387e+00	−9.7570e−01	1.3201e+01	2.1596e+01
	1.00 1.00	1.04 1.13	1.26 1.45	1.67 1.91	2.19 2.46	5.00 9.64	19.52 59.53	42.34 9.87
^{181}Re	$(n\alpha)^{178}$Ta	9.6650e+00	2.5	0.0	0.0100	0.01	1.2e−01	0
	2.8900e+02	−1.7029e+00	1.8587e+02	−5.1677e+02	4.8036e+01	−3.5658e+00	1.8961e+02	2.8943e+02

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{182}Re	(np)^{182}W	3.5830e+00	7.0	0.0	0.0100	0.01	1.2e−02	
	9.5690e+01	−4.6398e−01	5.7262e+01	−1.6199e+02	1.6022e+01	−1.2976e+00	6.0020e+01	9.8398e+01
	1.85 2.71	3.53 4.29	4.92 5.50	6.00 6.38	6.75 7.01	8.70 10.39	14.15 48.68	53.97 16.03
^{182}Re	(nα)^{179}Ta	1.0563e+01	7.0	3.5	0.0100	0.01	6.6e−03	0
	7.1121e+01	−5.0734e−01	4.6523e+01	−1.1981e+02	1.0357e+01	−6.3157e−01	4.6023e+01	7.0388e+01
^{183}Re	(nγ)^{184}Re	6.4850e+00	2.5	0.0	0.0100	0.01	4.3e−03	
	−8.1970e+00	2.3586e−01	−2.3585e+01	5.4138e+01	−3.3491e+00	−1.8480e−02	−2.2000e+01	1.7292e+01
	1.00 1.01	1.00 1.01	1.00 1.00	1.00 1.01	1.01 1.01	0.99 0.90	0.66 0.13	0.01 0.00
^{183}Re	(np)^{183}W	1.3380e+00	2.5	0.5	0.0100	0.01	1.4e−02	0
	−1.7344e+02	5.8147e−01	−7.4830e+01	2.5364e+02	−1.6075e+01	6.1364e−01	−8.5361e+01	−1.7234e+02
^{183}Re	(nα)^{180}Ta	8.7720e+00	2.5	1.0	0.0100	0.01	6.9e−04	0
	7.2110e+01	−5.9367e−01	4.6388e+01	−1.3073e+02	1.5249e+01	−1.2644e+00	4.6353e+01	7.1442e+01
^{184}Re	(nγ)^{185}Re	7.6690e+00	0.0	2.5	0.0100	0.01	3.4e−04	
	5.0879e+00	1.3110e−01	−1.2529e+01	2.8697e+01	−1.8768e+00	−6.4776e−02	−1.1445e+01	2.6994e+01
	1.01 1.07	1.12 1.14	1.16 1.18	1.20 1.22	1.24 1.26	1.23 0.97	0.62 0.15	0.02 0.00
^{184}Re	(np)^{184}W	2.2640e+00	0.0	0.0	0.0100	0.01	1.9e−03	0
	2.6357e+01	8.1194e−02	−3.4186e−01	−3.6270e+01	1.0073e+01	−1.1445e+00	5.7299e+00	2.6357e+01
^{184}Re	(nα)^{181}Ta	9.8640e+00	0.0	3.5	0.0100	0.01	1.7e−02	
	1.0775e+02	−7.3723e−01	7.4773e+01	−1.9333e+02	1.7389e+01	−1.2484e+00	7.3856e+01	1.0431e+02
	1.01 1.11	1.24 1.34	1.44 1.56	1.70 1.83	1.97 2.10	2.84 3.57	5.83 32.41	97.55 65.26
^{185}Re	(nγ)^{186}Re	6.1800e+00	2.5	1.0	0.0100	0.01	2.5e−03	
	−7.1224e+00	2.0893e−01	−2.1214e+01	5.0487e+01	−3.3786e+00	2.9432e−03	−2.0092e+01	1.7268e+01
	1.00 1.00	1.00 1.00	1.01 1.00	1.01 1.00	0.99 1.00	0.96 0.81	0.53 0.10	0.01 0.00
^{185}Re	(np)^{185}W	3.5000e−01	2.5	1.5	0.0100	0.01	2.6e−03	0
	1.6209e+02	−8.4748e−01	1.5201e+02	−3.5394e+02	2.1963e+01	−1.4518e+00	1.6857e+02	1.6249e+02
^{185}Re	(nα)^{182}Ta	8.2580e+00	2.5	3.0	0.0100	0.01	7.2e−04	0
	9.3954e+01	−1.9628e+00	1.0783e+02	−2.1905e+02	2.0032e+01	−1.4724e+00	9.0653e+01	9.2438e+01
^{186}Re	(nγ)^{187}Re	7.3600e+00	1.0	2.5	0.0100	0.01	9.6e−04	
	1.3246e+01	6.9498e−02	−6.1321e+00	1.2924e+01	−6.3191e−01	−1.5402e−01	−5.2885e+00	3.6251e+01
	1.00 1.01	1.03 1.06	1.10 1.12	1.14 1.15	1.15 1.15	1.09 0.90	0.61 0.15	0.02 0.00
^{186}Re	(np)^{186}W	1.3640e+00	1.0	0.0	0.0100	0.01	2.9e−02	0
	−1.4656e+02	5.8479e−01	−7.0493e+01	2.1748e+02	−1.2526e+01	4.8716e−01	−7.6783e+01	−1.4546e+02
^{186}Re	(nα)^{183}Ta	9.0130e+00	1.0	3.5	0.0100	0.01	4.8e−03	0
	1.3226e+02	−1.0815e+00	9.7182e+01	−2.4758e+02	2.2313e+01	−1.5624e+00	9.4550e+01	1.2992e+02
^{187}Re	(nγ)^{188}Re	5.8710e+00	2.5	1.0	0.0100	0.01	2.7e−03	
	−2.4342e+00	1.6329e−01	−1.6978e+01	4.0430e+01	−2.5767e+00	−5.2832e−02	−1.6243e+01	2.1957e+01
	1.00 1.00	1.00 1.01	1.00 1.00	1.00 0.99	0.98 0.97	0.92 0.79	0.53 0.11	0.01 0.00
^{187}Re	(nα)^{184}Ta	7.2680e+00	2.5	5.0	0.0100	0.01	2.5e−02	0
	5.1058e+01	−1.3342e−01	1.6495e+01	−8.8774e+01	1.5845e+01	−1.4699e+00	2.3243e+01	4.9090e+01
^{188}Re	(nγ)^{189}Re	7.0320e+00	1.0	2.5	0.0100	0.01	6.6e−04	
	1.7258e+01	1.5774e−01	−1.1859e+01	1.4663e+01	−4.7010e−01	−1.6404e−01	−8.2241e+00	4.0263e+01
	1.48 2.03	2.29 2.35	2.31 2.22	2.13 2.04	1.95 1.88	1.27 0.84	0.50 0.11	0.02 0.00
^{188}Re	(np)^{188}W	4.3400e−01	1.0	0.0	0.0100	0.01	4.1e−03	0
	1.5026e+02	−1.6519e+00	2.0230e+02	−3.9322e+02	2.1945e+01	−1.1962e+00	1.9543e+02	1.5136e+02
^{188}Re	(nα)^{185}Ta	8.0250e+00	1.0	3.5	0.0100	0.01	4.1e−03	0
	1.1128e+02	−1.6480e+00	9.7996e+01	−2.3181e+02	2.2684e+01	−1.6542e+00	8.8804e+01	1.0894e+02
^{189}Re	(nγ)^{190}Re	5.6500e+00	2.5	2.0	0.0100	0.01	2.2e−03	
	−3.0933e+00	1.8227e−01	−1.8643e+01	4.2160e+01	−2.5327e+00	−6.1788e−02	−1.7490e+01	2.0787e+01
	1.00 1.00	0.99 0.98	0.97 0.95	0.93 0.92	0.92 0.91	0.91 0.78	0.53 0.11	0.01 0.00
^{189}Re	(nα)^{186}Ta	6.2780e+00	2.5	4.5	0.0100	0.01	4.2e−02	0
	−6.4724e−02	−6.7018e−01	1.3636e+01	−3.6146e+01	1.1776e+01	−1.2294e+00	9.2627e+00	−1.9378e+00
^{190}Re	(nγ)^{191}Re	6.8640e+00	2.0	1.5	0.0100	0.01	2.3e−04	0
	1.2452e+01	1.6864e−03	−1.3392e+00	8.7070e+00	−8.9499e−01	−1.0297e−01	−2.2801e+00	3.6373e+01
^{191}Re	(nγ)^{192}Re	5.6070e+00	1.5	2.0	0.0100	0.01	8.8e−03	0
	−3.7919e+01	3.9496e−01	−4.2005e+01	1.0443e+02	−7.6449e+00	2.8918e−01	−4.0959e+01	−1.4444e+01
^{192}Re	(nγ)^{193}Re	6.4800e+00	2.0	2.5	0.0100	0.01	4.2e−04	0
	2.5501e+01	−1.8483e−02	3.2432e+00	−1.1003e+01	1.0005e+00	−2.4533e−01	3.9246e+00	4.9017e+01
^{193}Re	(nγ)^{194}Re	4.7750e+00	2.5	7.0	0.0100	0.01	1.5e−03	0
	1.3137e+01	1.7475e−02	−1.9455e+00	6.0357e+00	−2.4250e−01	−1.8951e−01	−2.0685e+00	3.5919e+01
^{194}Re	(nγ)^{195}Re	5.8810e+00	7.0	0.5	0.0100	0.01	1.1e−04	0
	1.4455e+01	1.2390e−02	−1.6319e+00	5.8215e+00	−4.7109e−01	−1.4157e−01	−1.8909e+00	4.0168e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{195}Re	$(n\gamma)^{196}$Re	4.9950e+00	0.5	1.0	0.0100	0.01	1.4e−03	0
	2.8375e+01	2.7013e−02	1.0457e+00	−1.2745e+01	1.2760e+00	−2.7508e−01	3.4961e+00	5.1667e+01
^{196}Re	$(n\gamma)^{197}$Re	6.3920e+00	1.0	0.5	0.0100	0.01	6.8e−04	0
	3.1184e+01	1.1423e−01	−6.0312e+00	−8.7100e+00	1.9540e+00	−3.4394e−01	−1.1990e+00	5.5288e+01
^{197}Re	$(n\gamma)^{198}$Re	4.9390e+00	0.5	1.0	0.0100	0.01	1.1e−03	0
	3.5184e+01	−6.6842e−02	9.9100e+00	−2.9994e+01	2.4634e+00	−3.5051e−01	1.1227e+01	5.8477e+01
^{198}Re	$(n\gamma)^{199}$Re	6.0430e+00	1.0	0.5	0.0100	0.01	3.2e−04	0
	4.7720e+01	−9.8031e−02	1.4435e+01	−4.8272e+01	4.2502e+00	−4.6053e−01	1.6803e+01	7.1824e+01
^{199}Re	$(n\gamma)^{200}$Re	4.7060e+00	0.5	1.0	0.0100	0.01	5.3e−04	0
	4.3555e+01	−1.3151e−01	1.6863e+01	−4.7240e+01	3.7931e+00	−4.2952e−01	1.8026e+01	6.6848e+01
^{200}Re	$(n\gamma)^{201}$Re	5.4650e+00	1.0	5.5	0.0100	0.01	8.6e−05	0
	5.5191e+01	−1.3419e−01	1.9272e+01	−6.3093e+01	5.4483e+00	−5.2956e−01	2.2173e+01	7.7503e+01
^{201}Re	$(n\gamma)^{202}$Re	2.7370e+00	5.5	6.0	0.0100	0.01	8.0e−04	0
	1.6449e+01	1.6902e−02	−1.2778e+00	−4.6076e+00	2.0233e+00	−3.9860e−01	−3.0320e−01	4.0067e+01
^{202}Re	$(n\gamma)^{203}$Re	3.8760e+00	6.0	5.5	0.0850	0.01	7.1e−05	0
	3.9268e+01	−9.9279e−02	1.2342e+01	−4.1348e+01	4.0950e+00	−4.6185e−01	1.3764e+01	6.3046e+01
^{203}Re	$(n\gamma)^{204}$Re	2.0280e+00	5.5	4.0	0.0150	0.01	9.1e−04	0
	9.7608e+00	6.5151e−02	−6.0093e+00	7.4135e+00	5.8140e−01	−2.7600e−01	−4.7766e+00	3.3747e+01
^{204}Re	$(n\gamma)^{205}$Re	3.5590e+00	4.0	5.5	0.0700	0.01	4.0e−04	0
	3.5967e+01	4.2180e−02	2.7019e−01	−2.5646e+01	3.5591e+00	−4.5801e−01	4.5656e+00	5.9378e+01
^{205}Re	$(n\gamma)^{206}$Re	2.0610e+00	5.5	6.0	0.0100	0.01	7.6e−04	0
	−7.9290e−02	1.1884e−01	−1.2041e+01	2.5499e+01	−1.5185e+00	−1.0853e−01	−1.1068e+01	2.3539e+01
^{206}Re	$(n\gamma)^{207}$Re	3.4540e+00	6.0	5.5	0.0350	0.01	8.9e−04	0
	2.6506e+01	6.2973e−02	−3.1171e+00	−1.1122e+01	1.8964e+00	−3.4207e−01	2.1130e−01	5.0285e+01
^{207}Re	$(n\gamma)^{208}$Re	2.1010e+00	5.5	1.0	0.0100	0.01	7.0e−04	0
	−1.0927e+01	1.6473e−01	−1.7646e+01	4.4359e+01	−3.6599e+00	5.7351e−02	−1.7285e+01	1.4157e+01
^{208}Re	$(n\gamma)^{209}$Re	3.5110e+00	1.0	0.5	0.0200	0.01	7.7e−04	0
	−5.1611e+00	4.4377e−01	−3.9574e+01	6.1819e+01	−2.9497e+00	−5.3062e−02	−3.1981e+01	1.8943e+01
^{209}Re	$(n\gamma)^{210}$Re	2.1750e+00	0.5	3.0	0.0100	0.01	1.9e−03	0
	−1.0329e+01	4.0121e−01	−3.5685e+01	6.3308e+01	−4.2804e+00	7.2700e−02	−2.9563e+01	1.2117e+01
^{182}Os	$(np)^{182}$Re	1.5700e+00	0.0	7.0	0.0100	0.01	7.6e−03	0
	−1.5098e+02	6.9346e−01	−7.9297e+01	2.3779e+02	−1.4415e+01	6.1077e−01	−8.4265e+01	−1.5368e+02
^{182}Os	$(n\alpha)^{179}$W	1.0084e+01	0.0	3.5	0.0100	0.01	3.7e−03	0
	6.7132e+01	−5.8088e−01	4.5763e+01	−1.1809e+02	1.2427e+01	−9.6630e−01	4.4184e+01	6.3691e+01
^{183}Os	$(np)^{183}$Re	3.0290e+00	4.5	2.5	0.0100	0.01	4.6e−03	
	6.8187e+01	−2.1488e−01	3.0811e+01	−1.0808e+02	1.4483e+01	−1.3844e+00	3.5403e+01	6.8698e+01
	1.00 1.00	0.99 0.99	0.99 0.99	1.01 1.04	1.08 1.12	1.97 4.01	9.48 42.38	34.82 8.29
^{183}Os	$(n\alpha)^{180}$W	1.1727e+01	4.5	0.0	0.0100	0.01	1.0e−02	0
	7.1572e+01	−4.5826e−01	4.4780e+01	−1.1688e+02	1.0600e+01	−7.5680e−01	4.4321e+01	7.2514e+01
^{184}Os	$(n\gamma)^{185}$Os	6.6260e+00	0.0	0.5	0.0100	0.01	1.1e−02	
	−1.8451e−01	1.9244e−01	−1.8556e+01	3.8925e+01	−1.2802e+00	−2.4021e−01	−1.6708e+01	2.2820e+01
	1.00 1.01	1.03 1.09	1.13 1.17	1.21 1.24	1.27 1.31	1.56 1.68	1.45 0.32	0.02 0.00
^{184}Os	$(np)^{184}$Re	7.5200e−01	0.0	0.0	0.0100	0.01	2.3e−02	0
	6.5899e+00	−1.5539e+00	1.4234e+02	−1.7146e+02	9.5924e+00	−9.5224e−01	1.1086e+02	6.5899e+00
^{184}Os	$(n\alpha)^{181}$W	9.6450e+00	0.0	4.5	0.0100	0.01	1.4e−04	0
	8.7022e+01	−1.3133e+00	8.2596e+01	−1.7942e+02	1.6555e+01	−1.2202e+00	7.2620e+01	8.3358e+01
^{185}Os	$(n\gamma)^{186}$Os	8.2620e+00	0.5	0.0	0.0100	0.01	5.6e−03	
	4.8905e+00	1.7721e−01	−1.6406e+01	3.1908e+01	−1.1290e+00	−1.9898e−01	−1.4222e+01	2.9281e+01
	0.99 1.01	1.05 1.09	1.11 1.14	1.16 1.17	1.18 1.19	1.27 1.25	1.00 0.23	0.02 0.00
^{185}Os	$(np)^{185}$Re	1.7950e+00	0.5	2.5	0.0100	0.01	5.3e−03	0
	−5.1355e+01	4.6028e−01	−4.2868e+01	8.8801e+01	2.4674e−01	−4.5761e−01	−3.8527e+01	−5.2454e+01
^{185}Os	$(n\alpha)^{182}$W	1.1084e+01	0.5	0.0	0.0100	0.01	8.9e−03	
	9.0031e+01	−7.4866e−01	6.2860e+01	−1.5760e+02	1.3768e+01	−9.1002e−01	6.0290e+01	8.9362e+01
	0.99 0.95	0.92 0.90	0.88 0.87	0.85 0.84	0.83 0.83	0.84 0.99	1.46 6.40	31.38 56.35
^{186}Os	$(n\gamma)^{187}$Os	6.2930e+00	0.0	0.5	0.0100	0.01	1.2e−02	
	7.6241e−01	1.7022e−01	−1.6758e+01	3.5820e+01	−1.1791e+00	−2.4005e−01	−1.5303e+01	2.3767e+01
	1.00 1.00	1.02 1.07	1.13 1.18	1.22 1.25	1.27 1.29	1.47 1.63	1.41 0.28	0.02 0.00
^{186}Os	$(n\alpha)^{183}$W	9.0130e+00	0.0	0.5	0.0100	0.01	1.2e−03	0
	8.4459e+01	−4.9288e−01	4.9889e+01	−1.4660e+02	1.6184e+01	−1.2708e+00	5.1731e+01	8.2404e+01
^{187}Os	$(n\gamma)^{188}$Os	7.9890e+00	0.5	0.0	0.0100	0.01	2.8e−03	
	−9.4000e+00	2.1906e−01	−2.2723e+01	5.4201e+01	−3.3221e+00	−3.0389e−02	−2.1723e+01	1.4991e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.29 1.32	1.29 1.30	1.31 1.36	1.39 1.44	1.49 1.54	1.79 1.62	1.14 0.22	0.02 0.00
^{187}Os	(np)^{187}Re	7.7900e−01	0.5	2.5	0.0100	0.01	2.3e−02	0
	−2.2480e+01	−1.3079e+00	1.1549e+02	−1.1255e+02	4.2561e+00	−3.4315e−01	8.5356e+01	−2.3579e+01
^{187}Os	(nα)^{184}W	1.0131e+01	0.5	0.0	0.0100	0.01	7.8e−03	0
	1.0643e+02	−1.4563e+00	9.6502e+01	−2.1393e+02	1.7969e+01	−1.1747e+00	8.5929e+01	1.0576e+02
^{188}Os	(nγ)^{189}Os	5.9210e+00	0.0	1.5	0.0100	0.01	1.1e−02	
	−1.3823e+00	1.7898e−01	−1.7869e+01	3.8616e+01	−1.3325e+00	−2.3600e−01	−1.6453e+01	2.0929e+01
	1.00 1.00	1.01 1.04	1.07 1.10	1.14 1.17	1.20 1.23	1.52 1.67	1.49 0.32	0.02 0.00
^{188}Os	(nα)^{185}W	7.8970e+00	0.0	1.5	0.0100	0.01	1.3e−02	0
	9.8754e+01	−1.0332e+00	7.2597e+01	−1.9382e+02	2.2500e+01	−1.9595e+00	6.9957e+01	9.6006e+01
^{189}Os	(nγ)^{190}Os	7.7920e+00	1.5	0.0	0.0100	0.01	4.8e−03	
	6.5643e+00	1.7070e−01	−1.5939e+01	2.9077e+01	−9.0029e−01	−2.1076e−01	−1.3670e+01	3.1648e+01
	1.06 1.16	1.20 1.21	1.21 1.23	1.23 1.24	1.25 1.25	1.25 1.22	0.96 0.22	0.02 0.00
^{189}Os	(nα)^{186}W	9.1700e+00	1.5	0.0	0.0100	0.01	3.8e−03	0
	1.3730e+02	−1.3881e+00	1.0539e+02	−2.6415e+02	2.5296e+01	−1.9629e+00	9.9686e+01	1.3733e+02
^{190}Os	(nγ)^{191}Os	5.7590e+00	0.0	4.5	0.0100	0.01	9.3e−03	
	1.7769e+00	1.6226e−01	−1.5891e+01	3.2408e+01	−7.3932e−01	−2.7980e−01	−1.4319e+01	2.3172e+01
	1.00 1.00	1.00 1.00	1.01 1.02	1.04 1.06	1.09 1.12	1.41 1.59	1.47 0.36	0.03 0.00
^{190}Os	(nα)^{187}W	6.8450e+00	0.0	1.5	0.0100	0.01	2.4e−02	0
	5.0668e+01	−3.9270e−01	2.5626e+01	−1.0216e+02	1.8484e+01	−1.8511e+00	2.9310e+01	4.7919e+01
^{191}Os	(nγ)^{192}Os	7.5580e+00	4.5	0.0	0.0100	0.01	4.3e−03	
	4.1238e+00	1.6560e−01	−1.6069e+01	3.1514e+01	−1.2054e+00	−1.8594e−01	−1.4266e+01	3.0124e+01
	1.00 0.99	0.98 0.96	0.92 0.89	0.86 0.83	0.80 0.78	0.68 0.58	0.43 0.10	0.01 0.00
^{191}Os	(nα)^{188}W	7.9200e+00	4.5	0.0	0.0100	0.01	9.6e−03	0
	1.1249e+02	−9.1664e−01	7.7821e+01	−2.1643e+02	2.2879e+01	−1.7203e+00	7.7931e+01	1.1343e+02
^{192}Os	(nγ)^{193}Os	5.5850e+00	0.0	1.5	0.0100	0.01	8.3e−03	
	2.1731e+01	3.9730e−02	−2.4196e+00	−4.5476e+00	2.4649e+00	−5.0429e−01	−6.8007e−01	4.4042e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.02 1.03	1.04 1.05	1.23 1.40	1.41 0.48	0.04 0.00
^{192}Os	(nα)^{189}W	5.2430e+00	0.0	1.5	0.0100	0.01	2.9e−02	0
	−1.4250e+02	2.3569e−01	−1.1687e+02	2.4145e+02	−4.2906e+00	−5.4796e−01	−1.0730e+02	−1.4525e+02
^{193}Os	(nγ)^{194}Os	7.1110e+00	1.5	0.0	0.0100	0.01	6.0e−03	
	−3.1836e+00	2.2286e−01	−2.2238e+01	4.4013e+01	−1.6243e+00	−1.8096e−01	−2.0027e+01	2.1901e+01
	1.00 0.97	0.94 0.92	0.90 0.89	0.89 0.89	0.89 0.90	0.94 0.99	0.85 0.20	0.02 0.00
^{193}Os	(nα)^{190}W	6.5380e+00	1.5	0.0	0.0100	0.01	7.7e−02	0
	2.0297e+01	3.0618e−01	−2.4802e+01	−2.6039e+01	1.6783e+01	−1.9130e+00	−1.0776e+01	2.0320e+01
^{194}Os	(nγ)^{195}Os	5.3280e+00	0.0	6.5	0.0100	0.01	1.2e−02	
	3.9277e+00	1.7884e−01	−1.6577e+01	2.8886e+01	2.1126e−02	−3.4893e−01	−1.4065e+01	2.4987e+01
	1.00 1.00	1.00 1.00	1.01 1.02	1.04 1.06	1.08 1.10	1.46 1.87	1.99 0.51	0.04 0.00
^{194}Os	(nα)^{191}W	5.4560e+00	0.0	4.5	0.0100	0.01	3.1e−02	0
	−1.5389e+02	1.0088e+00	−1.0927e+02	2.4945e+02	−7.9696e+00	−6.7013e−02	−1.0412e+02	−1.5755e+02
^{195}Os	(nγ)^{196}Os	6.6760e+00	6.5	0.0	0.0100	0.01	3.3e−03	
	−9.1342e−01	1.5279e−01	−1.5847e+01	3.5994e+01	−1.7951e+00	−1.3705e−01	−1.4982e+01	2.5424e+01
	1.01 1.02	1.03 1.03	1.04 1.04	1.04 1.05	1.05 1.05	1.02 0.90	0.65 0.14	0.01 0.00
^{195}Os	(nα)^{192}W	6.7550e+00	6.5	0.0	0.0100	0.01	4.4e−02	0
	2.2861e+00	1.9685e−01	−1.4360e+01	−1.3118e+01	1.1237e+01	−1.1905e+00	−6.4671e+00	3.5621e+00
^{196}Os	(nγ)^{197}Os	5.1870e+00	0.0	0.5	0.0100	0.01	5.8e−03	
	−9.2251e+00	2.2742e−01	−2.2928e+01	5.0316e+01	−2.2109e+00	−1.6630e−01	−2.1253e+01	1.3780e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.02 1.03	1.35 1.68	1.49 0.36	0.03 0.00
^{196}Os	(nα)^{193}W	3.8480e+00	0.0	0.5	0.0100	0.01	3.9e−03	0
	−5.3438e+02	−8.6102e+00	−7.7254e+02	1.3463e+03	−7.0768e+01	3.4266e+00	−6.2897e+02	−5.3644e+02
^{197}Os	(nγ)^{198}Os	6.8860e+00	0.5	0.0	0.0100	0.01	1.7e−03	
	3.8900e+01	−8.0961e−02	1.1478e+01	−3.5705e+01	3.3127e+00	−4.3622e−01	1.2954e+01	6.3291e+01
	1.26 1.63	1.99 2.26	2.47 2.58	2.65 2.67	2.66 2.64	1.95 1.34	0.85 0.20	0.02 0.00
^{197}Os	(nα)^{194}W	5.1060e+00	0.5	0.0	0.0100	0.01	9.4e−02	0
	−1.9511e+02	−8.9499e−01	−1.7983e+02	3.6087e+02	−1.2035e+01	6.7601e−02	−1.6211e+02	−1.9578e+02
^{198}Os	(nγ)^{199}Os	5.0240e+00	0.0	1.5	0.0100	0.01	7.2e−03	
	−1.8254e+01	2.9839e−01	−3.0178e+01	6.6544e+01	−3.1432e+00	−1.1919e−01	−2.8035e+01	4.0583e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.11 1.31	1.06 0.25	0.02 0.00
^{198}Os	(nα)^{195}W	2.7870e+00	0.0	0.5	0.0100	0.01	6.2e−03	0
	−5.5188e+02	−2.5023e+01	−6.1334e+02	1.2040e+03	−6.7132e+01	3.4078e+00	−5.3554e+02	−5.5394e+02
^{199}Os	(nγ)^{200}Os	6.5100e+00	1.5	0.0	0.0300	0.01	2.7e−04	

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−1.7331e+01	1.9250e−01	−2.1971e+01	5.8814e+01	−3.9441e+00	3.7507e−02	−2.2418e+01	7.7531e+00
	1.00 1.00	1.00 1.00	1.01 1.02	1.04 1.06	1.10 1.14	1.57 1.50	1.06 0.26	0.03 0.00
^{199}Os	$(n\alpha)^{196}$W	4.0130e+00	1.5	0.0	0.0300	0.01	2.5e−03	0
	−4.5873e+02	−8.1680e+00	−6.7886e+02	1.1609e+03	−5.7870e+01	2.6559e+00	−5.4866e+02	−4.5870e+02
^{200}Os	$(n\gamma)^{201}$Os	4.9210e+00	0.0	0.5	0.0100	0.01	7.0e−03	0
	−1.9432e+01	3.0813e−01	−3.1188e+01	6.7614e+01	−3.0056e+00	−1.3097e−01	−2.8867e+01	3.5731e+00
^{201}Os	$(n\gamma)^{202}$Os	5.8340e+00	0.5	0.0	0.1100	0.01	1.0e−03	0
	−1.0701e+01	1.8426e−01	−2.0007e+01	4.6505e+01	−2.1572e+00	−1.1473e−01	−1.9366e+01	1.3690e+01
^{202}Os	$(n\gamma)^{203}$Os	2.8010e+00	0.0	4.5	0.0550	0.01	9.1e−03	0
	1.3207e+01	5.5770e−02	−4.3169e+00	−8.2159e−01	2.9899e+00	−5.7275e−01	−2.5240e+00	3.4602e+01
^{203}Os	$(n\gamma)^{204}$Os	4.3240e+00	4.5	0.0	1.1950	0.01	1.1e−03	0
	8.1525e+00	6.3021e−02	−6.4271e+00	9.0762e+00	1.0393e+00	−3.4609e−01	−5.5061e+00	3.4154e+01
^{204}Os	$(n\gamma)^{205}$Os	2.0750e+00	0.0	1.5	0.1600	0.01	1.4e−02	0
	−3.0078e+01	3.4991e−01	−3.6029e+01	7.9600e+01	−3.7523e+00	−1.0701e−01	−3.3735e+01	−7.7659e+00
^{205}Os	$(n\gamma)^{206}$Os	3.9320e+00	1.5	0.0	1.2250	0.01	1.8e−04	0
	−2.1745e+01	1.9345e−01	−2.2170e+01	5.9526e+01	−4.2388e+00	6.5869e−02	−2.2659e+01	3.3393e+00
^{206}Os	$(n\gamma)^{207}$Os	1.9290e+00	0.0	2.5	0.0900	0.01	1.5e−02	0
	−6.8200e+01	5.4114e−01	−5.7977e+01	1.4550e+02	−1.0193e+01	3.7553e−01	−5.6848e+01	−4.6294e+01
^{207}Os	$(n\gamma)^{208}$Os	3.7990e+00	2.5	0.0	0.7500	0.01	1.6e−04	0
	−2.6664e+01	1.8411e−01	−2.2245e+01	6.6325e+01	−5.6856e+00	1.9863e−01	−2.3783e+01	−1.1741e+00
^{208}Os	$(n\gamma)^{209}$Os	1.9140e+00	0.0	2.5	0.0400	0.01	1.5e−02	0
	−9.8614e+01	7.0205e−01	−7.6442e+01	1.9962e+02	−1.5443e+01	7.7216e−01	−7.6153e+01	−7.6707e+01
^{209}Os	$(n\gamma)^{210}$Os	3.8460e+00	2.5	0.0	0.3800	0.01	2.2e−03	0
	−9.7971e+00	2.2196e−01	−2.1500e+01	4.8271e+01	−3.9233e+00	6.7174e−02	−1.9633e+01	1.5693e+01
^{210}Os	$(n\gamma)^{211}$Os	2.1730e+00	0.0	1.5	0.0150	0.01	7.2e−03	0
	−1.1222e+02	7.4368e−01	−8.2415e+01	2.2256e+02	−1.8236e+01	1.0085e+00	−8.3339e+01	−8.9913e+01
^{211}Os	$(n\gamma)^{212}$Os	3.7490e+00	1.5	0.0	0.1750	0.01	3.0e−03	0
	−1.5980e+01	3.0079e−01	−2.8446e+01	6.2980e+01	−5.3511e+00	1.7349e−01	−2.5595e+01	9.1050e+00
^{188}Ir	$(np)^{188}$Os	3.5920e+00	1.0	0.0	0.0100	0.01	1.4e−02	
	8.7422e+01	−3.9356e−01	4.8205e+01	−1.4293e+02	1.4640e+01	−1.1902e+00	5.0980e+01	8.8520e+01
	1.01 1.01	1.02 1.02	1.00 0.99	0.98 0.97	0.96 0.95	0.98 1.03	1.29 4.84	7.49 3.07
^{188}Ir	$(n\alpha)^{185}$Re	1.1139e+01	1.0	2.5	0.0100	0.01	1.0e−02	0
	3.8289e+01	−3.0678e−01	2.6489e+01	−6.2579e+01	5.3469e+00	−2.8069e−01	2.5068e+01	3.6234e+01
^{189}Ir	$(n\gamma)^{190}$Ir	6.3240e+00	1.5	4.0	0.0100	0.01	3.4e−03	
	−1.4125e+01	2.8389e−01	−2.8501e+01	6.5791e+01	−4.2800e+00	4.0072e−02	−2.6657e+01	8.7623e+00
	1.00 1.00	0.99 0.99	0.99 0.98	0.97 0.97	0.97 0.97	1.05 0.96	0.66 0.12	0.01 0.00
^{189}Ir	$(np)^{189}$Os	1.3150e+00	1.5	1.5	0.0100	0.01	1.6e−02	0
	−1.3560e+02	2.3784e−01	−3.9624e+01	1.7580e+02	−1.0981e+01	3.1613e−01	−5.2524e+01	−1.3560e+02
^{189}Ir	$(n\alpha)^{186}$Re	9.1210e+00	1.5	1.0	0.0100	0.01	7.2e−04	0
	6.0856e+01	−6.0943e−01	4.4100e+01	−1.1402e+02	1.2190e+01	−9.0169e−01	4.2265e+01	5.9782e+01
^{190}Ir	$(n\gamma)^{191}$Ir	8.0720e+00	4.0	1.5	0.0100	0.01	2.5e−04	
	1.6005e+01	8.9253e−02	−7.1501e+00	1.1463e+01	−3.8875e−01	−1.6558e−01	−5.4593e+00	4.0514e+01
	1.03 1.05	1.04 1.03	1.01 0.99	0.97 0.94	0.91 0.89	0.68 0.49	0.32 0.09	0.01 0.00
^{190}Ir	$(np)^{190}$Os	2.7820e+00	4.0	0.0	0.0100	0.01	1.3e−02	0
	4.1978e+01	−3.1873e−01	3.4626e+01	−8.7149e+01	1.1083e+01	−1.0600e+00	3.3383e+01	4.4175e+01
^{190}Ir	$(n\alpha)^{187}$Re	1.0156e+01	4.0	2.5	0.0100	0.01	7.7e−03	0
	7.6258e+01	−5.1681e−01	5.1761e+01	−1.3527e+02	1.2133e+01	−7.5207e−01	5.1263e+01	7.5301e+01
^{191}Ir	$(n\gamma)^{192}$Ir	6.1980e+00	1.5	0.0	0.0100	0.01	2.7e−03	
	−4.4986e+00	1.9227e−01	−1.9418e+01	4.5540e+01	−2.8517e+00	−4.7461e−02	−1.8287e+01	2.0586e+01
	1.00 1.00	1.00 0.99	1.00 1.01	1.03 1.05	1.07 1.08	1.17 1.07	0.76 0.15	0.02 0.00
^{191}Ir	$(np)^{191}$Os	4.6900e−01	1.5	4.5	0.0100	0.01	4.8e−04	0
	1.0567e+02	−7.2033e−01	1.2295e+02	−2.6216e+02	1.5652e+01	−1.0499e+00	1.3226e+02	1.0476e+02
^{191}Ir	$(n\alpha)^{188}$Re	7.9550e+00	1.5	1.0	0.0100	0.01	6.4e−03	0
	1.2160e+02	−1.8156e+00	1.1361e+02	−2.6128e+02	2.6023e+01	−2.0693e+00	1.0189e+02	1.2052e+02
^{192}Ir	$(n\gamma)^{193}$Ir	7.7720e+00	0.0	1.5	0.0100	0.01	4.1e−04	
	2.6083e+01	−1.1156e−02	3.0556e+00	−1.0336e+01	9.8241e−01	−2.4722e−01	3.9348e+00	4.8395e+01
	1.01 1.07	1.18 1.25	1.29 1.30	1.30 1.30	1.28 1.26	1.00 0.72	0.45 0.11	0.02 0.00
^{192}Ir	$(np)^{192}$Os	1.8290e+00	0.0	0.0	0.0100	0.01	4.5e−03	0
	−1.1853e+02	8.6851e−01	−9.0041e+01	2.0893e+02	−8.7411e+00	6.1191e−02	−8.6120e+01	−1.1853e+02
^{192}Ir	$(n\alpha)^{189}$Re	8.7890e+00	0.0	2.5	0.0100	0.01	3.0e−03	0
	1.0512e+02	−5.6441e−01	5.9517e+01	−1.8255e+02	1.8715e+01	−1.3302e+00	6.3885e+01	1.0196e+02

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{193}Ir	$(n\gamma)^{194}$Ir	6.0670e+00	1.5	1.0	0.0100	0.01	3.3e−03	
	1.5726e+01	3.2908e−02	−3.1989e+00	5.8640e+00	3.0554e−01	−2.6141e−01	−2.8241e+00	3.9712e+01
	1.00 0.99	0.98 1.01	1.04 1.08	1.10 1.13	1.14 1.16	1.16 1.07	0.83 0.20	0.02 0.00
^{193}Ir	$(n\alpha)^{190}$Re	6.6680e+00	1.5	2.0	0.0100	0.01	5.4e−02	0
	3.2913e+01	1.8337e−01	−8.1592e+00	−5.3194e+01	1.7337e+01	−1.9234e+00	3.5768e+00	3.1327e+01
^{194}Ir	$(n\gamma)^{195}$Ir	7.2320e+00	1.0	1.5	0.0100	0.01	9.3e−04	
	−1.6759e+01	2.9754e−01	−3.0510e+01	6.9684e+01	−4.4720e+00	7.8726e−02	−2.8696e+01	6.6518e+00
	1.00 0.97	0.93 0.86	0.79 0.74	0.71 0.70	0.72 0.74	0.99 0.93	0.68 0.19	0.03 0.00
^{194}Ir	$(np)^{194}$Os	6.8600e−01	1.0	0.0	0.0100	0.01	2.2e−02	0
	5.8539e+01	−2.0520e+00	1.9496e+02	−2.8469e+02	1.4045e+01	−7.7235e−01	1.6039e+02	5.9637e+01
^{194}Ir	$(n\alpha)^{191}$Re	7.4650e+00	1.0	1.5	0.0100	0.01	3.5e−03	0
	1.3523e+02	−1.2974e+00	9.7623e+01	−2.6686e+02	2.9007e+01	−2.2955e+00	9.5834e+01	1.3358e+02
^{195}Ir	$(n\gamma)^{196}$Ir	5.8330e+00	1.5	0.0	0.0100	0.01	1.3e−03	
	1.0709e+01	4.6714e−02	−5.0796e+00	1.2981e+01	−5.3794e−01	−1.7970e−01	−5.0522e+00	3.5793e+01
	1.00 1.01	1.04 1.08	1.12 1.16	1.19 1.22	1.24 1.26	1.34 1.22	0.87 0.21	0.03 0.00
^{195}Ir	$(n\alpha)^{192}$Re	6.6760e+00	1.5	2.0	0.0100	0.01	3.5e−02	0
	5.2968e+01	−6.1066e−01	3.3876e+01	−1.1570e+02	1.9292e+01	−1.8119e+00	3.5333e+01	5.1381e+01
^{196}Ir	$(n\gamma)^{197}$Ir	6.9010e+00	0.0	1.5	0.0100	0.01	2.7e−04	
	2.5661e+01	1.1843e−01	−7.4812e+00	1.7467e−01	1.0344e+00	−2.7683e−01	−3.5184e+00	4.7973e+01
	2.15 3.07	3.36 3.28	3.06 2.84	2.64 2.44	2.28 2.14	1.25 0.81	0.50 0.14	0.02 0.00
^{196}Ir	$(n\alpha)^{193}$Re	7.4560e+00	0.0	2.5	0.0100	0.01	6.3e−03	0
	8.2627e+01	−8.7212e−01	5.5482e+01	−1.6307e+02	2.0128e+01	−1.5946e+00	5.4960e+01	7.9472e+01
^{197}Ir	$(n\gamma)^{198}$Ir	5.9220e+00	1.5	2.0	0.0100	0.01	8.4e−05	
	−1.2178e+00	5.1056e−02	−7.7467e+00	2.9052e+01	−2.5746e+00	4.0500e−03	−9.4057e+00	2.2257e+01
	1.00 0.98	0.98 1.00	1.04 1.09	1.13 1.17	1.22 1.25	1.34 1.00	0.58 0.12	0.02 0.00
^{197}Ir	$(n\alpha)^{194}$Re	5.3300e+00	1.5	7.0	0.0100	0.01	6.3e−02	0
	−1.9438e+02	1.8932e−01	−1.6626e+02	3.5042e+02	−1.3269e+01	2.2012e−01	−1.5282e+02	−1.9707e+02
^{198}Ir	$(n\gamma)^{199}$Ir	6.8170e+00	2.0	1.5	0.0100	0.01	9.6e−05	
	3.2694e+01	−9.4375e−02	1.0523e+01	−2.6832e+01	2.3194e+00	−3.3437e−01	1.0491e+01	5.6615e+01
	1.10 1.21	1.31 1.40	1.46 1.52	1.56 1.58	1.59 1.59	1.31 0.94	0.61 0.18	0.03 0.00
^{198}Ir	$(n\alpha)^{195}$Re	5.2890e+00	2.0	0.5	0.0100	0.01	6.0e−02	0
	−1.5475e+02	−6.3205e−01	−1.4411e+02	2.8305e+02	−7.0670e+00	−2.1402e−01	−1.2934e+02	−1.5519e+02
^{199}Ir	$(n\gamma)^{200}$Ir	5.4430e+00	1.5	0.0	0.0100	0.01	2.1e−04	
	1.9951e+01	−6.9061e−02	6.2762e+00	−9.8308e+00	8.2455e−01	−2.4285e−01	5.1138e+00	4.5036e+01
	1.05 1.12	1.22 1.33	1.43 1.54	1.63 1.72	1.80 1.87	1.92 1.51	0.99 0.25	0.03 0.00
^{199}Ir	$(n\alpha)^{196}$Re	3.4670e+00	1.5	1.0	0.0100	0.01	3.5e−03	0
	−4.7906e+02	−1.8589e+01	−6.4886e+02	1.1598e+03	−6.0045e+01	2.8483e+00	−5.3834e+02	−4.8014e+02
^{200}Ir	$(n\gamma)^{201}$Ir	6.5680e+00	0.0	1.5	0.0100	0.01	6.2e−05	
	4.1690e+01	−3.3752e−03	5.8130e+00	−3.2755e+01	3.5210e+00	−4.2624e−01	9.5467e+00	6.4002e+01
	1.90 2.76	3.21 3.31	3.25 3.14	2.99 2.86	2.72 2.59	1.66 1.10	0.71 0.24	0.05 0.01
^{200}Ir	$(n\alpha)^{197}$Re	4.4160e+00	0.0	0.5	0.0100	0.01	6.8e−03	0
	−4.8046e+02	−3.8991e+00	−6.9165e+02	1.1999e+03	−6.0630e+01	2.8356e+00	−5.6443e+02	−4.8252e+02
^{201}Ir	$(n\gamma)^{202}$Ir	5.3070e+00	1.5	2.0	0.0100	0.01	2.1e−04	
	3.6857e+01	−1.7251e−01	1.7937e+01	−4.1718e+01	3.5280e+00	−4.2430e−01	1.7010e+01	6.0333e+01
	1.05 1.16	1.31 1.47	1.63 1.78	1.90 2.01	2.10 2.16	2.18 1.74	1.22 0.39	0.06 0.01
^{201}Ir	$(n\alpha)^{198}$Re	2.7870e+00	1.5	1.0	0.0100	0.01	2.9e−03	0
	−5.4018e+02	−2.5425e+01	−6.3524e+02	1.2102e+03	−6.5013e+01	3.1767e+00	−5.4688e+02	−5.4126e+02
^{202}Ir	$(n\gamma)^{203}$Ir	5.8780e+00	2.0	0.5	0.0150	0.01	1.2e−04	0
	4.8062e+01	−2.2467e−01	2.4280e+01	−6.1002e+01	5.1039e+00	−5.0928e−01	2.3847e+01	7.2677e+01
^{203}Ir	$(n\gamma)^{204}$Ir	3.0730e+00	0.5	3.0	0.0100	0.01	1.0e−03	0
	−9.7051e+00	1.3738e−01	−1.5550e+01	3.9716e+01	−1.9552e+00	−9.9408e−02	−1.5639e+01	1.2741e+01
^{204}Ir	$(n\gamma)^{205}$Ir	4.5250e+00	3.0	1.5	0.1150	0.01	3.5e−05	0
	4.9944e+01	−1.2777e−01	1.7013e+01	−5.7469e+01	5.5478e+00	−5.5839e−01	1.9380e+01	7.4202e+01
^{205}Ir	$(n\gamma)^{206}$Ir	2.4400e+00	1.5	1.0	0.0200	0.01	5.1e−04	0
	3.7368e+00	−1.9572e−03	−1.8564e+00	1.0396e+01	−2.1797e−01	−2.0157e−01	−3.1846e+00	2.7723e+01
^{206}Ir	$(n\gamma)^{207}$Ir	4.0220e+00	1.0	1.5	0.1050	0.01	2.2e−04	0
	3.9186e+01	9.3092e−02	−2.3284e+00	−2.5718e+01	3.7232e+00	−4.6963e−01	3.7516e+00	6.2597e+01
^{207}Ir	$(n\gamma)^{208}$Ir	2.2310e+00	1.5	3.0	0.0100	0.01	7.9e−04	0
	1.5148e+01	−9.8475e−02	8.4870e+00	−1.1456e+01	6.1727e−01	−2.2862e−01	6.5369e+00	3.8287e+01
^{208}Ir	$(n\gamma)^{209}$Ir	3.8200e+00	3.0	0.5	0.0450	0.01	6.6e−04	0
	3.2427e+01	7.7306e−02	−2.9111e+00	−1.7425e+01	2.7182e+00	−4.0468e−01	1.6433e+00	5.7378e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{209}Ir	$(n\gamma)^{210}$Ir	2.2530e+00	0.5	6.0	0.0100	0.01	1.2e−03	0
	1.1930e+01	1.9309e−01	−1.4425e+01	1.7119e+01	−8.8051e−01	−1.4336e−01	−9.8662e+00	3.3756e+01
^{210}Ir	$(n\gamma)^{211}$Ir	3.8500e+00	6.0	5.5	0.0200	0.01	1.2e−03	0
	2.4570e+01	9.2484e−02	−5.9460e+00	−4.9373e+00	1.3797e+00	−3.1286e−01	−2.3422e+00	4.8349e+01
^{211}Ir	$(n\gamma)^{212}$Ir	2.4970e+00	5.5	6.0	0.0100	0.01	6.6e−04	0
	−1.7018e+01	1.7800e−01	−2.0013e+01	5.5329e+01	−4.9737e+00	1.5814e−01	−2.0458e+01	6.6010e+00
^{212}Ir	$(n\gamma)^{213}$Ir	3.7730e+00	6.0	5.5	0.0100	0.01	1.5e−03	0
	1.4813e+01	1.4722e−01	−1.2088e+01	1.2544e+01	−2.6902e−01	−1.9945e−01	−8.6662e+00	3.8592e+01
^{213}Ir	$(n\gamma)^{214}$Ir	2.2670e+00	5.5	5.0	0.0100	0.01	2.2e−03	0
	−2.3370e+01	2.5763e−01	−2.7457e+01	6.9820e+01	−5.9166e+00	2.0417e−01	−2.6926e+01	4.1588e−01
^{190}Pt	$(n\gamma)^{191}$Pt	6.4370e+00	0.0	1.5	0.0100	0.01	1.0e−02	
	−2.3134e+01	3.3029e−01	−3.3876e+01	8.0637e+01	−4.9689e+00	3.0322e−02	−3.2236e+01	−8.2200e−01
	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.02	1.04 1.05	1.23 1.30	1.05 0.17	0.01 0.00
^{190}Pt	$(np)^{190}$Ir	1.6600e−01	0.0	4.0	0.0100	0.01	2.2e−03	0
	8.5145e−01	3.1570e+00	−1.4959e+02	1.3220e+02	−8.6719e+00	4.1043e−01	−5.9095e+01	−1.3458e+00
^{190}Pt	$(n\alpha)^{187}$Os	9.5420e+00	0.0	0.5	0.0100	0.01	5.6e−03	0
	6.5288e+01	−2.0584e+00	9.7538e+01	−1.7129e+02	1.4669e+01	−1.0703e+00	7.5918e+01	6.3233e+01
^{191}Pt	$(n\gamma)^{192}$Pt	8.6760e+00	1.5	0.0	0.0100	0.01	2.5e−03	
	−6.3843e+00	2.0450e−01	−2.0865e+01	4.9955e+01	−3.2784e+00	−1.4924e−02	−1.9828e+01	1.8700e+01
	1.22 1.16	1.13 1.12	1.12 1.12	1.13 1.15	1.15 1.16	1.17 1.01	0.68 0.13	0.01 0.00
^{191}Pt	$(np)^{191}$Ir	1.8010e+00	1.5	1.5	0.0100	0.01	4.0e−03	0
	−1.1008e+02	7.5494e−01	−7.8965e+01	1.8871e+02	−6.8104e+00	−1.4742e−01	−7.6501e+01	−1.1008e+02
^{191}Pt	$(n\alpha)^{188}$Os	1.1094e+01	1.5	0.0	0.0100	0.01	1.1e−02	
	8.9060e+01	−7.1417e−01	6.1510e+01	−1.5707e+02	1.4048e+01	−9.8622e−01	5.9595e+01	8.9084e+01
	1.09 1.03	0.99 0.95	0.91 0.88	0.85 0.83	0.81 0.80	0.79 0.92	1.27 4.84	15.94 16.32
^{192}Pt	$(n\gamma)^{193}$Pt	6.2560e+00	0.0	0.5	0.0100	0.01	9.3e−03	
	−8.2919e+00	2.2761e−01	−2.3155e+01	5.2378e+01	−2.4571e+00	−1.5797e−01	−2.1706e+01	1.4713e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.13 1.21	1.05 0.23	0.02 0.00
^{192}Pt	$(n\alpha)^{189}$Os	8.3390e+00	0.0	1.5	0.0100	0.01	1.6e−03	0
	5.0873e+01	−1.7114e−01	2.1873e+01	−8.7309e+01	1.3789e+01	−1.3013e+00	2.6237e+01	4.8124e+01
^{193}Pt	$(n\gamma)^{194}$Pt	8.3710e+00	0.5	0.0	0.0100	0.01	2.1e−03	
	−5.4603e+00	2.2458e−01	−2.2142e+01	4.9458e+01	−2.9684e+00	−4.8676e−02	−2.0378e+01	1.8931e+01
	1.20 1.37	1.39 1.39	1.42 1.45	1.49 1.53	1.57 1.61	1.78 1.54	1.06 0.21	0.02 0.00
^{193}Pt	$(np)^{193}$Ir	8.4000e−01	0.5	1.5	0.0100	0.01	5.4e−02	0
	−2.0534e+01	−1.5046e+00	1.2914e+02	−1.2949e+02	5.7998e+00	−5.9261e−01	9.4221e+01	−2.1227e+01
^{193}Pt	$(n\alpha)^{190}$Os	9.8750e+00	0.5	0.0	0.0100	0.01	8.9e−03	0
	1.2320e+02	−1.4259e+00	1.0224e+02	−2.4195e+02	2.1002e+01	−1.3989e+00	9.4444e+01	1.2253e+02
^{194}Pt	$(n\gamma)^{195}$Pt	6.1050e+00	0.0	0.5	0.0100	0.01	7.2e−03	
	−1.6764e+00	1.7565e−01	−1.7727e+01	3.8677e+01	−1.3307e+00	−2.3159e−01	−1.6431e+01	2.1329e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.03 1.04	1.21 1.33	1.19 0.29	0.02 0.00
^{194}Pt	$(n\alpha)^{191}$Os	7.2630e+00	0.0	4.5	0.0100	0.01	1.2e−02	0
	1.4569e+01	−3.3008e−01	8.8823e+00	−4.2730e+01	1.2518e+01	−1.4122e+00	9.5085e+00	1.0903e+01
^{195}Pt	$(n\gamma)^{196}$Pt	7.9220e+00	0.5	0.0	0.0100	0.01	2.7e−03	
	7.4738e+00	1.4125e−01	−1.3455e+01	2.4695e+01	−4.9444e−01	−2.4100e−01	−1.1679e+01	3.1865e+01
	1.00 1.00	1.00 0.98	0.96 0.95	0.94 0.95	0.97 0.99	1.16 1.23	1.04 0.30	0.03 0.00
^{195}Pt	$(n\alpha)^{192}$Os	8.7160e+00	0.5	0.0	0.0100	0.01	6.1e−03	0
	1.3918e+02	−1.1649e+00	9.3520e+01	−2.5908e+02	2.6840e+01	−2.1522e+00	9.2957e+01	1.3851e+02
^{196}Pt	$(n\gamma)^{197}$Pt	5.8470e+00	0.0	0.5	0.0100	0.01	4.7e−03	
	1.2807e+01	7.9779e−02	−7.3497e+00	1.0985e+01	1.0317e+00	−3.8910e−01	−6.0611e+00	3.5812e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.14 1.27	1.21 0.41	0.04 0.00
^{196}Pt	$(n\alpha)^{193}$Os	6.3800e+00	0.0	1.5	0.0100	0.01	1.3e−02	0
	−2.1777e+00	1.2080e−01	−1.6529e+01	−7.0671e+00	1.2614e+01	−1.5097e+00	−9.6790e+00	−4.9271e+00
^{197}Pt	$(n\gamma)^{198}$Pt	7.5560e+00	0.5	0.0	0.0100	0.01	1.8e−03	
	6.2530e+00	1.6179e−01	−1.5395e+01	2.6752e+01	−3.2546e−01	−2.6001e−01	−1.3199e+01	3.0644e+01
	1.00 1.03	1.04 1.05	1.06 1.08	1.10 1.13	1.16 1.20	1.62 1.82	1.58 0.50	0.06 0.00
^{197}Pt	$(n\alpha)^{194}$Os	7.6430e+00	0.5	0.0	0.0100	0.01	5.3e−03	0
	1.2394e+02	−7.5258e−01	7.0420e+01	−2.2768e+02	2.7507e+01	−2.3200e+00	7.5390e+01	1.2326e+02
^{198}Pt	$(n\gamma)^{199}$Pt	5.5560e+00	0.0	2.5	0.0100	0.01	3.3e−03	
	2.3521e+01	−1.0338e−02	1.8217e+00	−1.1417e+01	2.7809e+00	−5.0018e−01	2.6825e+00	4.5428e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.00 1.01	1.07 1.19	1.16 0.45	0.05 0.00
^{198}Pt	$(n\alpha)^{195}$Os	5.4150e+00	0.0	6.5	0.0100	0.01	1.1e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
		−2.1464e+02	−9.5641e−01	−1.4866e+02	3.5712e+02	−1.7029e+01	6.1097e−01	−1.4480e+02	−2.1864e+02
^{199}Pt	(nγ)^{200}Pt	7.2820e+00	2.5	0.0	0.0150	0.01	2.1e−03		
		2.3857e+01	1.7004e−02	−1.2082e+00	−8.9734e+00	3.0539e+00	−5.1548e−01	2.0783e−01	4.9347e+01
	0.98 0.91	0.87 0.86	0.86 0.86	0.87 0.88	0.89 0.90	1.04 1.17	1.18 0.55	0.08 0.01	
^{199}Pt	(nα)^{196}Os	6.5350e+00	2.5	0.0	0.0150	0.01	4.0e−02	0	
		3.9532e+01	2.1647e−01	−9.8662e+00	−6.5086e+01	2.0331e+01	−2.1547e+00	4.0756e+00	3.9960e+01
^{200}Pt	(nγ)^{201}Pt	5.1970e+00	0.0	2.5	0.0100	0.01	2.2e−03		
		3.8042e+01	−8.1869e−02	1.0779e+01	−3.8478e+01	5.2490e+00	−6.6739e−01	1.2398e+01	5.9948e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.07 1.20	1.29 0.73	0.11 0.01	
^{200}Pt	(nα)^{197}Os	3.7030e+00	0.0	0.5	0.0100	0.01	3.8e−03	0	
		−4.7112e+02	−1.3942e+01	−6.6024e+02	1.1601e+03	−5.9293e+01	2.7626e+00	−5.4125e+02	−4.7318e+02
^{201}Pt	(nγ)^{202}Pt	6.9750e+00	2.5	0.0	0.0550	0.01	7.7e−04		
		1.2125e+01	6.7643e−02	−6.6424e+00	9.7600e+00	9.0008e−01	−3.2791e−01	−5.6291e+00	3.7615e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.99	1.08 1.12	0.96 0.36	0.06 0.01	
^{201}Pt	(nα)^{198}Os	5.3920e+00	2.5	0.0	0.0550	0.01	6.9e−02	0	
		−1.5469e+02	−1.1401e+00	−1.4183e+02	2.7764e+02	−6.4299e+00	−2.5989e−01	−1.2700e+02	−1.5426e+02
^{202}Pt	(nγ)^{203}Pt	5.3590e+00	0.0	0.5	0.0100	0.01	4.9e−03		
		−5.8620e+00	2.2312e−01	−2.2035e+01	4.3181e+01	−8.0503e−01	−2.8171e−01	−1.9742e+01	1.7143e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.24 1.78	1.77 0.65	0.10 0.01	
^{202}Pt	(nα)^{199}Os	3.4410e+00	0.0	1.5	0.0100	0.01	3.8e−03	0	
		−5.0090e+02	−1.9464e+01	−6.5522e+02	1.1881e+03	−6.2032e+01	2.9546e+00	−5.4749e+02	−5.0365e+02
^{203}Pt	(nγ)^{204}Pt	6.2650e+00	0.5	0.0	0.1350	0.01	3.7e−04		
		4.3048e+00	8.2198e−02	−9.2157e+00	1.8998e+01	1.4314e−01	−2.6231e−01	−8.8051e+00	2.8696e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.02	1.34 1.48	1.28 0.57	0.12 0.01	
^{203}Pt	(nα)^{200}Os	4.5910e+00	0.5	0.0	0.1350	0.01	3.2e−03	0	
		−3.5609e+02	−6.0822e+00	−5.0937e+02	8.7579e+02	−4.1143e+01	1.7378e+00	−4.1451e+02	−3.5676e+02
^{204}Pt	(nγ)^{205}Pt	3.2390e+00	0.0	4.5	0.0700	0.01	3.4e−03	0	
		2.9090e+01	−3.8122e−02	5.9687e+00	−2.8409e+01	5.2847e+00	−7.1113e−01	7.8197e+00	5.0486e+01
^{205}Pt	(nγ)^{206}Pt	4.7910e+00	4.5	0.0	1.1550	0.01	3.4e−04	0	
		2.8643e+01	−6.3346e−02	7.3197e+00	−2.7189e+01	4.0735e+00	−5.4297e−01	8.2145e+00	5.4645e+01
^{206}Pt	(nγ)^{207}Pt	2.4440e+00	0.0	1.5	0.1400	0.01	1.0e−02	0	
		−9.1765e+00	2.3300e−01	−2.2979e+01	4.3636e+01	−5.3527e−01	−3.3118e−01	−2.0436e+01	1.3136e+01
^{207}Pt	(nγ)^{208}Pt	4.3880e+00	1.5	0.0	0.9350	0.01	6.1e−04	0	
		3.3469e+01	−1.7916e−01	1.8269e+01	−4.1536e+01	3.4254e+00	−4.2561e−01	1.7090e+01	5.8554e+01
^{208}Pt	(nγ)^{209}Pt	2.4240e+00	0.0	2.5	0.0600	0.01	1.1e−02	0	
		−5.1564e+01	4.5575e−01	−4.8319e+01	1.1799e+02	−7.6815e+00	1.9948e−01	−4.6870e+01	−2.9657e+01
^{209}Pt	(nγ)^{210}Pt	4.1650e+00	2.5	0.0	0.5100	0.01	2.0e−04	0	
		−1.7380e+01	1.4316e−01	−1.7432e+01	5.1509e+01	−4.0749e+00	6.9659e−02	−1.8644e+01	8.1104e+00
^{210}Pt	(nγ)^{211}Pt	2.2770e+00	0.0	0.5	0.0300	0.01	1.4e−02	0	
		−8.4032e+01	6.5352e−01	−7.0186e+01	1.7711e+02	−1.2894e+01	5.6636e−01	−6.8958e+01	−6.1027e+01
^{211}Pt	(nγ)^{212}Pt	4.0950e+00	0.5	0.0	0.2700	0.01	1.2e−03	0	
		2.5491e+01	−1.7073e−01	1.6747e+01	−2.8576e+01	8.2906e−01	−1.9691e−01	1.4469e+01	4.9883e+01
^{212}Pt	(nγ)^{213}Pt	2.4320e+00	0.0	1.5	0.0150	0.01	1.3e−02	0	
		−1.1014e+02	7.6950e−01	−8.4157e+01	2.2246e+02	−1.7805e+01	9.6346e−01	−8.4225e+01	−8.7827e+01
^{213}Pt	(nγ)^{214}Pt	4.0640e+00	1.5	0.0	0.1150	0.01	2.7e−03	0	
		−5.0680e+00	2.0597e−01	−1.9032e+01	4.1973e+01	−3.6908e+00	5.9357e−02	−1.6925e+01	2.0017e+01
^{214}Pt	(nγ)^{215}Pt	2.3880e+00	0.0	0.5	0.0100	0.01	5.8e−03	0	
		−1.0393e+02	7.0030e−01	−7.7426e+01	2.0917e+02	−1.7215e+01	9.3765e−01	−7.8236e+01	−8.0925e+01
^{215}Pt	(nγ)^{216}Pt	4.0760e+00	0.5	0.0	0.0900	0.01	5.0e−03	0	
		−1.9338e+01	4.6191e−01	−4.1934e+01	8.1337e+01	−5.9331e+00	1.7439e−01	−3.5837e+01	5.0542e+00
^{192}Au	(np)^{192}Pt	4.2980e+00	1.0	0.0	0.0100	0.01	1.1e−02		
		8.5691e+01	−3.4438e−01	4.3358e+01	−1.3457e+02	1.4168e+01	−1.1584e+00	4.6773e+01	8.6790e+01
	1.00 0.93	0.85 0.78	0.72 0.68	0.64 0.62	0.59 0.58	0.53 0.62	0.81 3.11	5.59 2.59	
^{192}Au	(nα)^{189}Ir	1.1322e+01	1.0	1.5	0.0100	0.01	1.3e−02	0	
		5.2556e+01	−3.6277e−01	3.2777e+01	−8.6176e+01	8.1933e+00	−5.4319e−01	3.2421e+01	5.0906e+01
^{193}Au	(np)^{193}Pt	1.8510e+00	1.5	0.5	0.0100	0.01	1.1e−02	0	
		−1.4838e+02	8.4796e−01	−9.3082e+01	2.5020e+02	−1.5156e+01	7.5268e−01	−9.4425e+01	−1.4769e+02
^{193}Au	(nα)^{190}Ir	8.9440e+00	1.5	4.0	0.0100	0.01	2.5e−04	0	
		2.3809e+01	−1.0306e−01	8.9200e+00	−4.0186e+01	7.6446e+00	−6.6143e−01	1.1247e+01	2.1635e+01
^{194}Au	(np)^{194}Pt	3.2740e+00	1.0	0.0	0.0100	0.01	1.6e−03		
		6.5542e+01	−1.1420e−01	2.1467e+01	−9.6662e+01	1.3847e+01	−1.3006e+00	2.8023e+01	6.6641e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	1.00 0.92	0.81 0.71	0.63 0.58	0.54 0.50	0.47 0.44	0.34 0.63	1.31 7.02	11.84 4.89
^{194}Au	$(n\alpha)^{191}$Ir	1.0069e+01	1.0	1.5	0.0100	0.01	9.0e−03	0
	8.0690e+01	−5.0093e−01	5.0066e+01	−1.4039e+02	1.3831e+01	−9.5870e−01	5.1096e+01	7.9040e+01
^{195}Au	$(n\gamma)^{196}$Au	6.6430e+00	1.5	2.0	0.0100	0.01	1.6e−03	
	−9.8491e+00	2.4195e−01	−2.4439e+01	5.6374e+01	−3.4383e+00	−1.7357e−02	−2.2917e+01	1.3626e+01
	1.00 1.00	0.99 0.97	0.95 0.95	0.94 0.94	0.94 0.96	1.09 1.04	0.74 0.16	0.02 0.00
^{195}Au	$(np)^{195}$Pt	1.0090e+00	1.5	0.5	0.0100	0.01	6.6e−02	0
	−1.3865e+02	−5.0806e−01	2.3263e+01	1.1125e+02	−1.0958e+01	4.7134e−01	−6.6143e+00	−1.3796e+02
^{195}Au	$(n\alpha)^{192}$Ir	7.8970e+00	1.5	0.0	0.0100	0.01	5.8e−03	0
	3.4325e+01	−4.7663e−01	2.5954e+01	−7.6659e+01	1.2236e+01	−1.0670e+00	2.5251e+01	3.4349e+01
^{196}Au	$(n\gamma)^{197}$Au	8.0710e+00	2.0	1.5	0.0100	0.01	1.4e−04	
	1.9508e+01	2.1807e−02	−1.1911e+00	9.4795e−01	3.3044e−01	−2.1544e−01	−5.4798e−01	4.3429e+01
	0.99 0.98	0.99 1.00	1.02 1.03	1.05 1.05	1.06 1.06	0.97 0.76	0.52 0.15	0.02 0.00
^{196}Au	$(np)^{196}$Pt	2.2880e+00	2.0	0.0	0.0100	0.01	4.7e−03	0
	−3.5375e+00	3.6397e−01	−2.8015e+01	2.0950e+01	7.1486e+00	−1.0269e+00	−1.9201e+01	−1.9281e+00
^{196}Au	$(n\alpha)^{193}$Ir	9.0260e+00	2.0	1.5	0.0100	0.01	6.7e−03	0
	1.2070e+02	−6.9845e−01	7.4606e+01	−2.1591e+02	2.1569e+01	−1.5478e+00	7.7408e+01	1.1956e+02
^{197}Au	$(n\gamma)^{198}$Au	6.5120e+00	1.5	2.0	0.0100	0.01	2.0e−03	
	−3.4851e+00	2.0524e−01	−2.0412e+01	4.4160e+01	−2.2332e+00	−1.0235e−01	−1.8732e+01	1.9990e+01
	1.00 1.00	0.99 0.97	0.96 0.94	0.93 0.92	0.92 0.92	1.03 1.08	0.84 0.22	0.03 0.00
^{197}Au	$(np)^{197}$Pt	6.3000e−02	1.5	0.5	0.0100	0.01	2.2e−03	0
	1.3246e+02	1.8178e+00	−3.6720e+01	−1.3260e+02	1.0476e+01	−8.1044e−01	4.9271e+01	1.3316e+02
^{197}Au	$(n\alpha)^{194}$Ir	7.0210e+00	1.5	1.0	0.0100	0.01	3.3e−02	0
	3.7298e+01	−2.1627e+00	8.1972e+01	−1.4475e+02	1.8177e+01	−1.5767e+00	6.0512e+01	3.6222e+01
^{198}Au	$(n\gamma)^{199}$Au	7.5840e+00	2.0	1.5	0.0100	0.01	1.4e−03	
	2.7166e+01	5.1970e−02	−2.4425e+00	−8.2811e+00	2.2516e+00	−4.0030e−01	1.8856e−01	5.1087e+01
	1.00 0.99	0.97 0.95	0.92 0.90	0.87 0.84	0.81 0.79	0.74 0.77	0.68 0.27	0.05 0.01
^{198}Au	$(np)^{198}$Pt	1.1080e+00	2.0	0.0	0.0100	0.01	2.6e−02	0
	−1.3738e+02	−1.3703e−02	−1.7101e+01	1.4837e+02	−1.0575e+01	4.5079e−01	−3.5008e+01	−1.3577e+02
^{198}Au	$(n\alpha)^{195}$Ir	7.7410e+00	2.0	1.5	0.0100	0.01	9.6e−03	0
	1.3414e+02	−8.6204e−01	7.9009e+01	−2.4654e+02	2.8852e+01	−2.4161e+00	8.3661e+01	1.3300e+02
^{199}Au	$(n\gamma)^{200}$Au	6.2370e+00	1.5	0.0	0.0100	0.01	2.1e−03	
	5.7227e+00	1.3640e−01	−1.3456e+01	2.5311e+01	−4.6135e−01	−2.3026e−01	−1.1936e+01	3.0807e+01
	1.00 1.00	0.98 0.97	0.95 0.93	0.92 0.90	0.89 0.88	0.90 0.98	0.86 0.28	0.04 0.00
^{199}Au	$(n\alpha)^{196}$Ir	5.9900e+00	1.5	0.0	0.0100	0.01	3.0e−02	0
	−1.0186e+02	9.6184e−01	−9.4832e+01	1.7679e+02	4.3423e−01	−8.3087e−01	−8.3875e+01	−1.0183e+02
^{200}Au	$(n\gamma)^{201}$Au	7.2000e+00	0.0	1.5	0.0100	0.01	2.4e−04	
	1.0818e+01	7.6115e−02	−7.1911e+00	1.4353e+01	−2.3431e−01	−1.9534e−01	−6.3363e+00	3.3130e+01
	1.01 1.12	1.20 1.24	1.30 1.38	1.48 1.58	1.70 1.82	2.62 2.50	1.89 0.63	0.11 0.01
^{200}Au	$(np)^{200}$Pt	1.2600e−01	0.0	0.0	0.0100	0.01	2.7e−03	0
	7.0888e+01	2.0890e+00	−5.8429e+01	−4.4630e+01	3.2195e+00	−2.0212e−01	1.7150e+01	7.0888e+01
^{200}Au	$(n\alpha)^{197}$Ir	6.6550e+00	0.0	1.5	0.0100	0.01	4.7e−02	0
	2.5888e+01	−1.1759e+00	3.7065e+01	−9.2006e+01	1.7252e+01	−1.6132e+00	2.9873e+01	2.3138e+01
^{201}Au	$(n\gamma)^{202}$Au	6.0830e+00	1.5	1.0	0.0100	0.01	2.1e−03	
	4.2161e+00	1.4136e−01	−1.4033e+01	2.6321e+01	−3.5861e−01	−2.3801e−01	−1.2481e+01	2.8202e+01
	1.00 1.00	0.99 0.98	0.96 0.96	0.93 0.93	0.91 0.91	0.95 1.09	0.99 0.36	0.06 0.01
^{201}Au	$(n\alpha)^{198}$Ir	5.2840e+00	1.5	2.0	0.0100	0.01	3.4e−02	0
	−2.3903e+02	−3.9498e+00	−2.5704e+02	4.9413e+02	−2.0897e+01	6.2354e−01	−2.2409e+02	−2.4062e+02
^{202}Au	$(n\gamma)^{203}$Au	6.8000e+00	1.0	1.5	0.0100	0.01	3.2e−04	
	3.1035e+01	−1.3306e−01	1.3103e+01	−2.9337e+01	2.8191e+00	−3.7957e−01	1.2024e+01	5.4446e+01
	1.05 1.12	1.20 1.27	1.35 1.42	1.49 1.56	1.63 1.69	1.83 1.61	1.25 0.50	0.11 0.01
^{202}Au	$(n\alpha)^{199}$Ir	5.7550e+00	1.0	1.5	0.0100	0.01	5.2e−02	0
	−9.0129e+01	−1.9061e−01	−4.9612e+01	1.1655e+02	2.6630e+00	−7.3769e−01	−5.2268e+01	−9.1781e+01
^{203}Au	$(n\gamma)^{204}$Au	5.1340e+00	1.5	2.0	0.0100	0.01	1.8e−03	
	1.2197e+01	7.7114e−02	−7.4463e+00	8.2297e+00	1.4724e+00	−3.7720e−01	−5.9859e+00	3.5673e+01
	1.00 0.96	0.92 0.90	0.88 0.86	0.86 0.85	0.84 0.84	0.90 1.09	1.14 0.55	0.11 0.01
^{203}Au	$(n\alpha)^{200}$Ir	3.7360e+00	1.5	0.0	0.0100	0.01	4.0e−03	0
	−5.3638e+02	−1.4310e+01	−8.0109e+02	1.3748e+03	−7.0593e+01	3.3452e+00	−6.4845e+02	−5.3636e+02
^{204}Au	$(n\gamma)^{205}$Au	6.3930e+00	2.0	1.5	0.0450	0.01	6.0e−04	
	4.7939e+01	−2.4027e−01	2.5118e+01	−6.2038e+01	5.4224e+00	−5.3478e−01	2.4249e+01	7.1861e+01
	1.04 1.14	1.26 1.39	1.52 1.63	1.72 1.81	1.87 1.93	2.02 1.75	1.39 0.68	0.19 0.03

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{204}Au	(nα)^{201}Ir	5.1700e+00	2.0	1.5	0.0450	0.01	2.2e−02	0
		−2.8824e+02	−3.4856e+00	−3.6923e+02	6.6073e+02	−2.9314e+01	1.0906e+00	−3.0900e+02	−2.8938e+02
^{205}Au	(nγ)^{206}Au	3.5060e+00	1.5	5.0	0.0250	0.01	3.5e−04	
		1.6140e+01	1.3501e−02	−1.0874e+00	−4.6755e+00	2.4673e+00	−4.3094e−01	−2.3422e−01	3.8827e+01
		1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.02 1.03	1.40 1.70	1.71 1.05	0.29 0.03
^{205}Au	(nα)^{202}Ir	4.0840e+00	1.5	2.0	0.0250	0.01	5.2e−03	0
		−4.6159e+02	−1.1275e+01	−6.5387e+02	1.1412e+03	−5.7505e+01	2.6370e+00	−5.3459e+02	−4.6318e+02
^{206}Au	(nγ)^{207}Au	4.9250e+00	5.0	0.5	0.1750	0.01	3.0e−04	0
		4.7717e+01	−1.8369e−01	2.0566e+01	−5.8780e+01	5.6393e+00	−5.6638e−01	2.1178e+01	7.3120e+01
^{207}Au	(nγ)^{208}Au	2.9860e+00	0.5	3.0	0.0250	0.01	2.4e−03	0
		2.1791e+01	−1.4599e−01	1.3116e+01	−2.4047e+01	2.2265e+00	−3.4296e−01	1.1002e+01	4.4236e+01
^{208}Au	(nγ)^{209}Au	4.2830e+00	3.0	0.5	0.1200	0.01	5.9e−05	0
		4.6453e+01	−1.4159e−01	1.7427e+01	−5.3623e+01	5.0345e+00	−5.3185e−01	1.8891e+01	7.1404e+01
^{209}Au	(nγ)^{210}Au	2.7790e+00	0.5	5.0	0.0150	0.01	9.9e−04	0
		3.9853e+01	−1.7958e−02	7.8808e+00	−3.7088e+01	3.7588e+00	−4.6734e−01	1.1660e+01	6.1847e+01
^{210}Au	(nγ)^{211}Au	4.2100e+00	5.0	0.5	0.0400	0.01	2.5e−04	0
		3.7842e+01	−7.4999e−02	1.0081e+01	−3.5931e+01	3.5490e+00	−4.4013e−01	1.1700e+01	6.3245e+01
^{211}Au	(nγ)^{212}Au	2.7980e+00	0.5	3.0	0.0100	0.01	1.3e−03	0
		2.4181e+01	9.2642e−02	−4.0791e+00	−6.5438e+00	9.9671e−01	−2.7252e−01	−1.3341e−01	4.6627e+01
^{212}Au	(nγ)^{213}Au	4.1070e+00	3.0	0.5	0.0150	0.01	7.9e−04	0
		3.3556e+01	−8.2640e−03	4.2644e+00	−2.4515e+01	2.5011e+00	−3.7293e−01	6.8246e+00	5.8508e+01
^{213}Au	(nγ)^{214}Au	2.6270e+00	0.5	2.0	0.0100	0.01	1.0e−03	0
		1.9733e+01	−1.4956e−01	1.3737e+01	−1.9094e+01	9.6323e−02	−1.5214e−01	1.1055e+01	4.2516e+01
^{214}Au	(nγ)^{215}Au	4.0770e+00	2.0	1.5	0.0100	0.01	1.4e−03	0
		1.8929e+01	1.9923e−01	−1.5002e+01	1.1567e+01	1.8826e−01	−2.4118e−01	−9.6946e+00	4.2851e+01
^{215}Au	(nγ)^{216}Au	2.5930e+00	1.5	1.0	0.0100	0.01	1.5e−04	0
		−9.2176e+00	1.0415e−02	−4.9280e+00	3.2541e+01	−4.3267e+00	1.5625e−01	−8.2598e+00	1.4769e+01
^{216}Au	(nγ)^{217}Au	4.0670e+00	1.0	1.5	0.0100	0.01	1.4e−03	0
		4.5492e+00	3.6181e−01	−3.0679e+01	4.4002e+01	−2.1527e+00	−9.4428e−02	−2.3688e+01	2.7960e+01
^{217}Au	(nγ)^{218}Au	2.6170e+00	1.5	1.0	0.0100	0.01	1.4e−03	0
		−7.0883e+00	1.5649e−01	−1.5491e+01	4.1647e+01	−4.4605e+00	1.4358e−01	−1.4963e+01	1.6898e+01
^{194}Hg	(np)^{194}Au	8.2200e−01	0.0	1.0	0.0100	0.01	3.3e−02	0
		−2.9582e+01	−1.5928e+00	1.3692e+02	−1.2498e+02	3.7321e+00	−3.5575e−01	9.8725e+01	−3.0681e+01
^{194}Hg	(nα)^{191}Pt	9.0900e+00	0.0	1.5	0.0100	0.01	1.9e−02	0
		4.3022e+01	−7.7554e−01	3.6754e+01	−9.0505e+01	1.2524e+01	−1.0986e+00	3.2559e+01	4.0272e+01
^{195}Hg	(np)^{195}Au	2.2920e+00	0.5	1.5	0.0100	0.01	8.4e−03	0
		−6.1148e+01	6.4300e−01	−6.1739e+01	1.2246e+02	−2.1860e+00	−2.6415e−01	−5.5338e+01	−6.1841e+01
^{195}Hg	(nα)^{192}Pt	1.0866e+01	0.5	0.0	0.0100	0.01	1.6e−02	0
		9.9066e+01	−5.9996e−01	6.2044e+01	−1.7130e+02	1.6112e+01	−1.1174e+00	6.2822e+01	9.8396e+01
^{196}Hg	(nγ)^{197}Hg	6.7860e+00	0.0	0.5	0.0100	0.01	7.2e−03	
		−3.1234e+00	2.1095e−01	−2.0634e+01	4.3498e+01	−1.5376e+00	−2.1539e−01	−1.8711e+01	1.9882e+01
		1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.02	1.15 1.31	1.20 0.31	0.03 0.00
^{196}Hg	(np)^{196}Au	9.7000e−02	0.0	2.0	0.0100	0.01	3.0e−03	0
		5.2514e+01	2.5408e+00	−9.4012e+01	1.6625e+01	−1.0765e+00	−4.7824e−02	−8.2172e+00	5.0905e+01
^{196}Hg	(nα)^{193}Pt	8.2840e+00	0.0	0.5	0.0100	0.01	2.1e−02	0
		5.5890e+01	−1.9805e+00	8.5906e+01	−1.5939e+02	1.7379e+01	−1.4320e+00	6.6825e+01	5.3833e+01
^{197}Hg	(nγ)^{198}Hg	8.4840e+00	0.5	0.0	0.0100	0.01	2.1e−03	
		7.3390e+00	1.2573e−01	−1.1898e+01	2.3931e+01	−5.9530e−01	−2.2906e−01	−1.0513e+01	3.1730e+01
		1.00 1.00	1.00 1.02	1.04 1.05	1.08 1.12	1.15 1.18	1.52 1.58	1.28 0.35	0.04 0.00
^{197}Hg	(np)^{197}Au	1.3820e+00	0.5	1.5	0.0100	0.01	6.5e−03	0
		−1.2375e+02	3.3765e−01	−4.5599e+01	1.6651e+02	−8.7535e+00	2.2258e−01	−5.4199e+01	−1.2444e+02
^{197}Hg	(nα)^{194}Pt	9.8680e+00	0.5	0.0	0.0100	0.01	8.0e−03	0
		1.4625e+02	−1.1357e+00	1.0163e+02	−2.6883e+02	2.4768e+01	−1.7176e+00	1.0019e+02	1.4558e+02
^{198}Hg	(nγ)^{199}Hg	6.6640e+00	0.0	0.5	0.0100	0.01	5.3e−03	
		1.3586e+01	9.2726e−02	−8.3322e+00	1.1303e+01	1.2525e+00	−4.0847e−01	−6.6623e+00	3.6591e+01
		1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	1.05 1.24	1.25 0.44	0.05 0.00
^{198}Hg	(nα)^{195}Pt	7.4890e+00	0.0	0.5	0.0100	0.01	1.4e−02	0
		9.1258e+00	1.4941e−01	−1.3347e+01	−1.4219e+01	1.1011e+01	−1.2147e+00	−6.0386e+00	7.0693e+00
^{199}Hg	(nγ)^{200}Hg	8.0280e+00	0.5	0.0	0.0100	0.01	2.4e−03	
		2.1601e+01	4.8306e−02	−3.2082e+00	−2.3866e+00	2.0224e+00	−4.2614e−01	−1.4120e+00	4.5992e+01
		1.00 1.00	1.00 1.00	1.01 1.02	1.02 1.03	1.05 1.06	1.33 1.57	1.50 0.57	0.08 0.01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{199}Hg	(np)^{199}Au	3.2900e−01	0.5	1.5	0.0100	0.01	4.2e−04	0
	1.3310e+02	3.2251e−01	6.9213e+01	−2.4136e+02	1.6973e+01	−1.2019e+00	1.0948e+02	1.3241e+02
^{199}Hg	(nα)^{196}Pt	8.7460e+00	0.5	0.0	0.0100	0.01	1.0e−03	0
	1.8124e+02	−2.3934e+00	1.6071e+02	−3.7488e+02	3.3992e+01	−2.4392e+00	1.4631e+02	1.8057e+02
^{200}Hg	(nγ)^{201}Hg	6.2300e+00	0.0	1.5	0.0100	0.01	2.0e−03	
	3.5281e+01	−7.9127e−02	9.3598e+00	−3.1866e+01	4.6129e+00	−6.2010e−01	1.0282e+01	5.7593e+01
	1.00 1.00	1.00 1.01	1.01 1.00	1.01 1.01	1.02 1.02	1.13 1.29	1.35 0.69	0.11 0.01
^{200}Hg	(nα)^{197}Pt	6.5650e+00	0.0	0.5	0.0100	0.01	3.2e−02	0
	1.0541e+00	−8.0154e−01	1.5102e+01	−4.3224e+01	1.5008e+01	−1.7009e+00	1.0115e+01	−1.0027e+00
^{201}Hg	(nγ)^{202}Hg	7.7540e+00	1.5	0.0	0.0100	0.01	1.4e−03	
	3.9672e+01	−9.9615e−02	1.1148e+01	−3.9159e+01	5.4231e+00	−6.6518e−01	1.2173e+01	6.4757e+01
	0.89 0.89	0.91 0.94	0.97 1.00	1.02 1.06	1.08 1.10	1.22 1.42	1.52 0.88	0.17 0.02
^{201}Hg	(nα)^{198}Pt	7.8910e+00	1.5	0.0	0.0100	0.01	1.5e−02	0
	1.2957e+02	−1.7639e+00	1.1059e+02	−2.7507e+02	2.9566e+01	−2.3266e+00	1.0186e+02	1.2960e+02
^{202}Hg	(nγ)^{203}Hg	5.9930e+00	0.0	2.5	0.0100	0.01	1.3e−03	
	5.6473e+01	−2.3598e−01	2.5983e+01	−7.3378e+01	7.8563e+00	−8.2002e−01	2.6481e+01	7.8379e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.03 1.11	1.21 0.90	0.20 0.02
^{202}Hg	(nα)^{199}Pt	5.6930e+00	0.0	2.5	0.0100	0.01	2.5e−02	0
	−1.0871e+02	−1.9076e+00	−9.6787e+01	1.8755e+02	−1.3823e+00	−5.5448e−01	−8.7026e+01	−1.1187e+02
^{203}Hg	(nγ)^{204}Hg	7.4950e+00	2.5	0.0	0.0350	0.01	2.9e−04	
	4.0954e+01	−9.4464e−02	1.1082e+01	−4.1174e+01	5.5922e+00	−6.5694e−01	1.2515e+01	6.6444e+01
	0.96 0.93	0.90 0.86	0.83 0.81	0.80 0.78	0.77 0.76	0.72 0.78	0.81 0.55	0.14 0.02
^{203}Hg	(nα)^{200}Pt	6.9820e+00	2.5	0.0	0.0350	0.01	5.2e−02	0
	4.3311e+01	−8.7081e−01	3.4278e+01	−1.0940e+02	1.9028e+01	−1.7011e+00	3.2630e+01	4.3739e+01
^{204}Hg	(nγ)^{205}Hg	5.6680e+00	0.0	0.5	0.0100	0.01	1.3e−03	
	7.0552e+01	−3.3153e−01	3.6523e+01	−1.0114e+02	1.0018e+01	−9.4698e−01	3.7050e+01	9.3557e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.97 1.04	1.19 1.05	0.30 0.03
^{204}Hg	(nα)^{201}Pt	4.6840e+00	0.0	2.5	0.0100	0.01	3.3e−03	0
	−3.9264e+02	−7.0508e+00	−6.4173e+02	1.0545e+03	−4.9497e+01	2.0878e+00	−5.0937e+02	−3.9579e+02
^{205}Hg	(nγ)^{206}Hg	6.7270e+00	0.5	0.0	0.2300	0.01	7.1e−04	
	6.4002e+01	−2.9897e−01	3.2267e+01	−8.9850e+01	8.9137e+00	−8.3568e−01	3.2546e+01	8.8393e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.98	0.91 0.96	1.06 0.89	0.30 0.04
^{205}Hg	(nα)^{202}Pt	6.1600e+00	0.5	0.0	0.2300	0.01	7.1e−02	0
	−4.1050e+01	−1.3865e−01	−2.9944e+01	4.2721e+01	9.1494e+00	−1.1714e+00	−2.8124e+01	−4.1721e+01
^{206}Hg	(nγ)^{207}Hg	3.3810e+00	0.0	4.5	0.1850	0.01	2.6e−03	
	6.2298e+01	−2.9147e−01	3.2392e+01	−9.2332e+01	1.0101e+01	−9.9973e−01	3.3206e+01	8.3694e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.06	1.18 1.23	0.35 0.03
^{206}Hg	(nα)^{203}Pt	4.5240e+00	0.0	0.5	0.1850	0.01	3.8e−03	0
	−4.4650e+02	−8.0944e+00	−7.2430e+02	1.1960e+03	−5.7128e+01	2.4424e+00	−5.7581e+02	−4.4856e+02
^{207}Hg	(nγ)^{208}Hg	5.2840e+00	4.5	0.0	1.7150	0.01	7.2e−04	
	4.2549e+01	−1.6142e−01	1.7625e+01	−5.2690e+01	6.0638e+00	−6.5734e−01	1.8201e+01	6.8550e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.01 1.02	1.03 1.04	1.14 1.16	1.10 0.71	0.20 0.02
^{207}Hg	(nα)^{204}Pt	7.4080e+00	4.5	0.0	1.7150	0.01	1.2e−02	0
	9.0888e+01	−1.2390e+00	7.6802e+01	−2.0106e+02	2.3580e+01	−1.8589e+00	7.2150e+01	9.1827e+01
^{208}Hg	(nγ)^{209}Hg	3.0270e+00	0.0	4.5	0.0800	0.01	3.7e−03	0
	1.8348e+01	2.5871e−02	−1.0572e+00	−9.1521e+00	3.5511e+00	−5.8976e−01	7.1216e−01	3.9744e+01
^{209}Hg	(nγ)^{210}Hg	4.7030e+00	4.5	0.0	1.0050	0.01	4.9e−04	0
	2.1069e+01	−2.2962e−02	2.6535e+00	−1.3127e+01	2.6963e+00	−4.4961e−01	3.2838e+00	4.7070e+01
^{210}Hg	(nγ)^{211}Hg	2.8150e+00	0.0	2.5	0.0750	0.01	8.8e−03	0
	−3.1697e+01	3.6211e−01	−3.7343e+01	8.4883e+01	−4.3979e+00	−5.1148e−02	−3.5217e+01	−9.7905e+00
^{211}Hg	(nγ)^{212}Hg	4.6120e+00	2.5	0.0	0.4250	0.01	2.9e−04	0
	−7.0543e+00	1.1537e−01	−1.3510e+01	3.6145e+01	−2.2306e+00	−8.1543e−02	−1.3906e+01	1.8436e+01
^{212}Hg	(nγ)^{213}Hg	2.6980e+00	0.0	2.5	0.0250	0.01	1.5e−02	0
	−7.4085e+01	6.2348e−01	−6.5970e+01	1.6233e+02	−1.1218e+01	4.2710e−01	−6.4046e+01	−5.2178e+01
^{213}Hg	(nγ)^{214}Hg	4.5620e+00	2.5	0.0	0.1900	0.01	4.6e−04	0
	−4.2143e+00	5.0350e−02	−7.5413e+00	2.8262e+01	−2.6107e+00	−1.5920e−02	−9.1328e+00	2.1276e+01
^{214}Hg	(nγ)^{215}Hg	2.4450e+00	0.0	4.5	0.0150	0.01	2.0e−02	0
	−9.5688e+01	7.3370e−01	−7.8557e+01	1.9960e+02	−1.4847e+01	6.9528e−01	−7.7229e+01	−7.4292e+01
^{215}Hg	(nγ)^{216}Hg	4.3660e+00	4.5	0.0	0.1300	0.01	7.4e−04	0
	−1.7537e+01	1.6825e−01	−1.9462e+01	5.6116e+01	−5.0453e+00	1.5665e−01	−2.0326e+01	8.4646e+00
^{216}Hg	(nγ)^{217}Hg	2.4100e+00	0.0	7.5	0.0100	0.01	1.5e−02	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−1.1630e+02	8.1733e−01	−8.9063e+01	2.3531e+02	−1.8886e+01	1.0307e+00	−8.9005e+01	−9.5377e+01
^{217}Hg	(nγ)^{218}Hg	4.3690e+00	7.5	0.0	0.0450	0.01	4.1e−04	0
	−9.4435e+00	1.2971e−01	−1.4927e+01	4.3498e+01	−4.3230e+00	1.2324e−01	−1.5596e+01	1.7028e+01
^{218}Hg	(nγ)^{219}Hg	2.6670e+00	0.0	2.5	0.0100	0.01	1.0e−02	0
	−1.1756e+02	7.4345e−01	−8.3432e+01	2.3281e+02	−2.0099e+01	1.1908e+00	−8.5473e+01	−9.5650e+01
^{219}Hg	(nγ)^{220}Hg	4.3830e+00	2.5	0.0	0.0250	0.01	5.7e−03	0
	−1.5532e+01	3.5738e−01	−3.3823e+01	6.9359e+01	−5.1641e+00	1.1840e−01	−2.9898e+01	9.9589e+00
^{196}Tl	(np)^{196}Hg	5.0920e+00	2.0	0.0	0.0100	0.01	2.5e−02	
	1.2466e+02	−6.9992e−01	7.9168e+01	−2.0973e+02	1.8106e+01	−1.3062e+00	7.9549e+01	1.2627e+02
	1.00 1.00	1.00 1.01	1.01 1.01	1.02 1.03	1.03 1.03	0.76 0.59	0.66 2.20	4.38 2.19
^{196}Tl	(nα)^{193}Au	1.1524e+01	2.0	1.5	0.0100	0.01	8.5e−03	0
	5.5134e+01	−3.9169e−01	3.6595e+01	−9.2232e+01	8.1130e+00	−4.5654e−01	3.5667e+01	5.3994e+01
^{197}Tl	(np)^{197}Hg	2.9650e+00	0.5	0.5	0.0100	0.01	1.1e−02	
	−7.0530e+01	5.9624e−01	−6.0082e+01	1.4048e+02	−7.4154e+00	3.4420e−01	−5.7143e+01	−7.0530e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.02 1.04	1.06 1.11	2.44 6.18	10.00 19.45	47.59 82.66
^{197}Tl	(nα)^{194}Au	9.5580e+00	0.5	1.0	0.0100	0.01	8.8e−03	0
	8.4152e+00	9.8831e−02	−8.6672e+00	−4.4799e+00	5.5990e+00	−5.6720e−01	−4.4055e+00	6.6465e+00
^{198}Tl	(np)^{198}Hg	4.2420e+00	2.0	0.0	0.0100	0.01	2.0e−02	
	1.0300e+02	−5.6264e−01	6.4417e+01	−1.7374e+02	1.5836e+01	−1.1835e+00	6.5175e+01	1.0460e+02
	1.00 1.00	1.00 1.01	1.01 1.02	1.03 1.04	1.05 1.07	1.09 1.03	1.16 3.59	6.92 3.40
^{198}Tl	(nα)^{195}Au	1.0721e+01	2.0	1.5	0.0100	0.01	1.3e−02	0
	7.7786e+01	−5.0064e−01	5.0599e+01	−1.3509e+02	1.2618e+01	−8.4398e−01	5.0591e+01	7.6645e+01
^{199}Tl	(np)^{199}Hg	2.2270e+00	0.5	0.5	0.0100	0.01	1.6e−02	0
	−1.5669e+02	1.0439e+00	−1.1126e+02	2.8128e+02	−1.7535e+01	9.4357e−01	−1.0973e+02	−1.5669e+02
^{199}Tl	(nα)^{196}Au	8.6860e+00	0.5	2.0	0.0100	0.01	7.4e−03	0
	−3.2467e+00	1.9082e−01	−1.7318e+01	1.3296e+01	5.0867e+00	−5.7997e−01	−1.2272e+01	−5.5265e+00
^{200}Tl	(np)^{200}Hg	3.2390e+00	2.0	0.0	0.0100	0.01	2.0e−03	
	7.0364e+01	−2.8556e−01	3.6562e+01	−1.1578e+02	1.3641e+01	−1.1873e+00	3.9715e+01	7.1974e+01
	1.00 1.00	1.01 1.01	1.02 1.04	1.07 1.09	1.12 1.16	1.71 2.56	3.68 9.79	14.10 5.55
^{200}Tl	(nα)^{197}Au	9.7400e+00	2.0	1.5	0.0100	0.01	1.0e−03	0
	8.1508e+01	−4.3787e−01	4.8209e+01	−1.4167e+02	1.4411e+01	−9.7428e−01	5.0445e+01	8.0368e+01
^{201}Tl	(np)^{201}Hg	1.2650e+00	0.5	1.5	0.0100	0.01	5.0e−02	0
	−1.8804e+02	2.3717e−01	−4.9140e+01	2.4415e+02	−1.9584e+01	1.1359e+00	−6.9833e+01	−1.8873e+02
^{201}Tl	(nα)^{198}Au	8.0490e+00	0.5	2.0	0.0100	0.01	5.2e−03	0
	3.9501e+01	−2.8427e−01	1.9953e+01	−7.6917e+01	1.3111e+01	−1.1575e+00	2.2592e+01	3.7221e+01
^{202}Tl	(np)^{202}Hg	2.1470e+00	2.0	0.0	0.0100	0.01	9.6e−03	0
	−8.9716e+01	6.8342e−01	−6.9482e+01	1.6025e+02	−6.8571e+00	1.9862e−01	−6.6022e+01	−8.8107e+01
^{202}Tl	(nα)^{199}Au	8.7590e+00	2.0	1.5	0.0100	0.01	3.7e−03	0
	1.3816e+02	−7.2458e−01	8.2860e+01	−2.4717e+02	2.5547e+01	−1.8857e+00	8.7206e+01	1.3702e+02
^{203}Tl	(nγ)^{204}Tl	6.6560e+00	0.5	2.0	0.0100	0.01	3.9e−05	
	4.0603e+01	−1.5613e−01	1.6424e+01	−4.4313e+01	4.7050e+00	−5.3689e−01	1.6247e+01	6.3385e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.99	0.97 0.94	0.85 0.45	0.12 0.01
^{203}Tl	(np)^{203}Hg	2.9100e−01	0.5	2.5	0.0100	0.01	4.9e−04	0
	4.5547e+01	1.5102e+00	−2.6302e+01	−4.4023e+01	5.0758e−01	3.9894e−02	2.8693e+01	4.4449e+01
^{203}Tl	(nα)^{200}Au	7.1470e+00	0.5	0.0	0.0100	0.01	2.9e−02	0
	1.3855e+00	−8.9672e−01	2.0549e+01	−4.3492e+01	1.1611e+01	−1.1397e+00	1.3458e+01	7.1467e−01
^{204}Tl	(nγ)^{205}Tl	7.5470e+00	2.0	0.5	0.0100	0.01	3.0e−04	
	7.0217e+01	−2.9031e−01	3.2596e+01	−9.4154e+01	9.2539e+00	−8.5316e−01	3.3685e+01	9.4832e+01
	1.00 1.00	1.00 0.99	0.98 0.96	0.94 0.93	0.90 0.88	0.73 0.74	0.79 0.65	0.24 0.03
^{204}Tl	(np)^{204}Hg	1.1300e+00	2.0	0.0	0.0100	0.01	4.6e−02	0
	−1.7125e+02	−4.0070e−03	−2.5147e+01	1.9496e+02	−1.5966e+01	9.3952e−01	−4.8124e+01	−1.6964e+02
^{204}Tl	(nα)^{201}Au	7.6910e+00	2.0	1.5	0.0100	0.01	6.9e−03	0
	1.5538e+02	−9.7207e−01	9.3185e+01	−2.8730e+02	3.2721e+01	−2.6492e+00	9.8244e+01	1.5424e+02
^{205}Tl	(nγ)^{206}Tl	6.5040e+00	0.5	0.0	0.0100	0.01	1.8e−04	
	5.3402e+01	−2.2413e−01	2.4245e+01	−6.7941e+01	6.8863e+00	−6.8353e−01	2.4513e+01	7.7794e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.98	0.98 0.97	0.95 0.97	0.97 0.69	0.23 0.03
^{205}Tl	(nα)^{202}Au	6.2280e+00	0.5	1.0	0.0100	0.01	4.1e−02	0
	−9.4992e+01	9.3714e−01	−9.0474e+01	1.6559e+02	1.4046e−01	−6.2024e−01	−7.9294e+01	−9.6761e+01
^{206}Tl	(nγ)^{207}Tl	6.8480e+00	0.0	0.5	0.0550	0.01	7.3e−04	
	8.3189e+01	−4.1254e−01	4.5106e+01	−1.2292e+02	1.1210e+01	−9.4969e−01	4.5464e+01	1.0619e+02
	1.00 1.00	1.00 1.00	0.99 0.98	0.96 0.93	0.90 0.87	0.69 0.72	0.83 0.87	0.45 0.08

Target	Reaction	Q	J_i	J_f	T_{low}^{HF}	T_{low}^{fit}	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^{rev}
T_9^{SEF}:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{206}Tl	$(n\alpha)^{203}$Au	6.5230e+00	0.0	1.5	0.0550	0.01	2.9e−02	0
	6.2803e+00	2.5244e−01	−1.8371e+01	−1.6275e+01	1.2823e+01	−1.3104e+00	−8.3928e+00	3.5297e+00
^{207}Tl	$(n\gamma)^{208}$Tl	3.7900e+00	0.5	0.0	0.1600	0.01	1.1e−03	
	6.1219e+01	−2.6234e−01	2.9239e+01	−8.5996e+01	9.1208e+00	−8.6537e−01	3.0290e+01	8.5611e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.99 0.99	0.96 1.04	1.18 1.14	0.48 0.07
^{207}Tl	$(n\alpha)^{204}$Au	4.8100e+00	0.5	2.0	0.1600	0.01	4.8e−03	0
	−3.9942e+02	−7.3193e+00	−5.9074e+02	1.0099e+03	−4.8983e+01	2.1466e+00	−4.7858e+02	−4.0170e+02
^{208}Tl	$(n\gamma)^{209}$Tl	4.9560e+00	0.0	0.5	0.6700	0.01	1.1e−03	
	3.5456e+01	−9.3344e−02	1.0614e+01	−3.6260e+01	4.4954e+00	−5.1277e−01	1.1577e+01	5.8462e+01
	0.99 0.94	0.90 0.87	0.85 0.84	0.84 0.84	0.84 0.84	0.86 0.89	0.87 0.63	0.24 0.04
^{208}Tl	$(n\alpha)^{205}$Au	7.8220e+00	0.0	1.5	0.6700	0.01	8.8e−03	0
	8.2988e+01	−4.7321e−01	4.6816e+01	−1.5567e+02	1.9356e+01	−1.5203e+00	5.1004e+01	8.0237e+01
^{209}Tl	$(n\gamma)^{210}$Tl	3.6820e+00	0.5	5.0	0.0500	0.01	1.5e−03	
	1.3233e+01	−1.2296e−02	6.1068e−01	−1.8919e+00	1.5112e+00	−3.3890e−01	3.3805e−01	3.5227e+01
	1.00 1.00	1.00 1.00	1.00 1.01	1.02 1.05	1.08 1.13	1.68 1.86	1.71 0.91	0.21 0.02
^{209}Tl	$(n\alpha)^{206}$Au	6.6880e+00	0.5	5.0	0.0500	0.01	1.4e−02	0
	−3.2161e+01	2.9837e−01	−2.9435e+01	4.0823e+01	6.4438e+00	−8.6766e−01	−2.4397e+01	−3.5230e+01
^{210}Tl	$(n\gamma)^{211}$Tl	4.8580e+00	5.0	0.5	0.1450	0.01	5.3e−05	0
	3.1736e+01	−5.9780e−02	7.1655e+00	−2.7759e+01	3.7461e+00	−4.8379e−01	8.2624e+00	5.7140e+01
^{211}Tl	$(n\gamma)^{212}$Tl	3.3200e+00	0.5	3.0	0.0100	0.01	1.5e−03	0
	7.2631e+00	−3.7891e−02	1.6802e+00	4.7107e+00	−1.0678e−01	−1.9821e−01	−1.5121e−01	2.9709e+01
^{212}Tl	$(n\gamma)^{213}$Tl	4.5980e+00	3.0	0.5	0.0500	0.01	7.4e−05	0
	3.4341e+01	−1.2412e−01	1.3542e+01	−3.5013e+01	3.0395e+00	−3.9360e−01	1.3445e+01	5.9293e+01
^{213}Tl	$(n\gamma)^{214}$Tl	3.1210e+00	0.5	1.0	0.0100	0.01	9.9e−04	0
	−6.9495e+00	2.9342e−02	−6.2827e+00	2.9831e+01	−2.7852e+00	1.2615e−03	−8.7392e+00	1.6344e+01
^{214}Tl	$(n\gamma)^{215}$Tl	4.4830e+00	1.0	0.5	0.0200	0.01	6.0e−04	0
	4.4800e+01	−5.9664e−02	1.1208e+01	−4.3180e+01	3.8529e+00	−4.5536e−01	1.4280e+01	6.8904e+01
^{215}Tl	$(n\gamma)^{216}$Tl	2.8740e+00	0.5	1.0	0.0100	0.01	1.2e−03	0
	2.5207e+01	−2.1995e−01	2.0272e+01	−3.1170e+01	9.4501e−01	−2.0823e−01	1.6643e+01	4.8500e+01
^{216}Tl	$(n\gamma)^{217}$Tl	4.4650e+00	1.0	0.5	0.0100	0.01	1.1e−03	0
	1.7161e+01	2.7271e−01	−2.1140e+01	2.0463e+01	−7.3036e−02	−2.3855e−01	−1.4402e+01	4.1265e+01
^{217}Tl	$(n\gamma)^{218}$Tl	3.1710e+00	0.5	1.0	0.0100	0.01	1.4e−03	0
	1.6360e+01	8.0104e−02	−4.5712e+00	4.6551e+00	−9.2821e−01	−1.1102e−01	−2.2935e+00	3.9653e+01
^{218}Tl	$(n\gamma)^{219}$Tl	4.2910e+00	1.0	0.5	0.0100	0.01	1.2e−03	0
	3.1337e+01	6.3327e−03	3.3792e+00	−1.9257e+01	1.3150e+00	−2.7245e−01	5.9122e+00	5.5441e+01
^{219}Tl	$(n\gamma)^{220}$Tl	2.6790e+00	0.5	3.0	0.0100	0.01	2.6e−03	0
	−2.1702e+01	3.0421e−03	−6.5840e+00	4.8824e+01	−6.5207e+00	3.3989e−01	−1.1989e+01	7.4390e−01
^{220}Tl	$(n\gamma)^{221}$Tl	4.0580e+00	3.0	1.5	0.0100	0.01	7.0e−04	0
	2.5196e+01	−5.0444e−02	5.9954e+00	−1.4408e+01	2.6732e−01	−1.8132e−01	6.0479e+00	4.9455e+01
^{221}Tl	$(n\gamma)^{222}$Tl	3.1210e+00	1.5	3.0	0.0100	0.01	2.8e−03	0
	−5.5237e+00	2.4464e−01	−2.2514e+01	4.7954e+01	−4.3078e+00	1.0408e−01	−1.9801e+01	1.7616e+01
^{198}Pb	$(np)^{198}$Tl	2.1250e+00	0.0	2.0	0.0100	0.01	3.9e−02	0
	−9.6776e+01	8.1141e−01	−8.1924e+01	1.7969e+02	−4.3322e+00	−4.3408e−01	−7.6684e+01	−9.8386e+01
^{198}Pb	$(n\alpha)^{195}$Hg	1.0555e+01	0.0	0.5	0.0100	0.01	2.4e−02	0
	5.5429e+01	−2.2837e−01	2.2271e+01	−8.3519e+01	1.1775e+01	−1.0175e+00	2.5830e+01	5.3373e+01
^{199}Pb	$(np)^{199}$Tl	3.6660e+00	1.5	0.5	0.0100	0.01	6.0e−03	
	1.2170e+02	−5.5091e−01	6.6326e+01	−2.0110e+02	2.1408e+01	−1.7855e+00	7.0419e+01	1.2240e+02
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.98 0.97	0.90 1.21	2.63 15.30	20.97 7.09
^{199}Pb	$(n\alpha)^{196}$Hg	1.2255e+01	1.5	0.0	0.0100	0.01	9.5e−03	0
	5.7906e+01	−3.5983e−01	3.6860e+01	−9.3929e+01	7.9224e+00	−4.3189e−01	3.6180e+01	5.7929e+01
^{200}Pb	$(np)^{200}$Tl	1.5930e+00	0.0	2.0	0.0100	0.01	2.7e−03	0
	−1.7599e+02	8.2001e−01	−9.5507e+01	2.7758e+02	−1.5656e+01	5.1578e−01	−1.0106e+02	−1.7760e+02
^{200}Pb	$(n\alpha)^{197}$Hg	9.9500e+00	0.0	0.5	0.0100	0.01	2.6e−02	0
	2.5297e+01	−1.7473e−01	7.0678e+00	−3.6972e+01	7.7559e+00	−7.0028e−01	9.0710e+00	2.3240e+01
^{201}Pb	$(np)^{201}$Tl	2.6850e+00	2.5	0.5	0.0100	0.01	7.2e−03	
	6.4268e+01	−1.2950e−01	2.2980e+01	−1.0231e+02	1.6456e+01	−1.6246e+00	2.9558e+01	6.5367e+01
	1.00 1.01	1.06 1.14	1.22 1.30	1.38 1.45	1.52 1.58	2.27 4.51	12.14 62.81	78.57 25.27
^{201}Pb	$(n\alpha)^{198}$Hg	1.1324e+01	2.5	0.0	0.0100	0.01	6.0e−03	0
	8.7074e+01	−5.0387e−01	5.3567e+01	−1.4785e+02	1.3735e+01	−8.9823e−01	5.4376e+01	8.7502e+01
^{202}Pb	$(np)^{202}$Tl	8.3200e−01	0.0	2.0	0.0100	0.01	1.5e−02	0
	−8.2599e+01	−1.1721e+00	9.4107e+01	−2.2452e+01	−5.1608e+00	3.9252e−01	5.8172e+01	−8.4208e+01

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
^{202}Pb	$(n\alpha)^{199}$Hg	9.2620e+00	0.0	0.5	0.0100	0.01	1.5e−02	0
	4.6419e+01	−8.3248e−01	4.1046e+01	−9.8779e+01	1.2515e+01	−1.0121e+00	3.6199e+01	4.4362e+01
^{203}Pb	$(np)^{203}$Tl	1.7570e+00	2.5	0.5	0.0100	0.01	4.9e−03	0
	−1.0023e+02	5.8919e−01	−6.3577e+01	1.5955e+02	−4.9086e+00	−1.6473e−01	−6.3269e+01	−9.9130e+01
^{203}Pb	$(n\alpha)^{200}$Hg	1.0366e+01	2.5	0.0	0.0100	0.01	7.5e−03	0
	1.2092e+02	−8.8716e−01	8.2941e+01	−2.1991e+02	2.0288e+01	−1.3750e+00	8.1974e+01	1.2134e+02
^{204}Pb	$(n\gamma)^{205}$Pb	6.7310e+00	0.0	2.5	0.0100	0.01	1.2e−03	
	5.1330e+01	−2.6043e−01	2.6798e+01	−6.7631e+01	6.7629e+00	−6.9765e−01	2.5825e+01	7.3237e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.96	0.85 0.57	0.17 0.02
^{204}Pb	$(np)^{204}$Tl	1.8000e−02	0.0	2.0	0.0100	0.01	3.2e−02	0
	−1.5442e+02	5.3256e+00	−4.5805e+02	6.1397e+02	−3.4767e+01	1.8114e+00	−2.9564e+02	−1.5603e+02
^{204}Pb	$(n\alpha)^{201}$Hg	8.2010e+00	0.0	1.5	0.0100	0.01	3.6e−02	0
	1.4211e+02	−6.4011e+00	2.8578e+02	−4.5880e+02	3.4561e+01	−2.3432e+00	2.1309e+02	1.3935e+02
^{205}Pb	$(n\gamma)^{206}$Pb	8.0880e+00	2.5	0.0	0.0400	0.01	1.7e−03	
	6.9288e+01	−3.1885e−01	3.4540e+01	−9.5984e+01	9.4796e+00	−8.7942e−01	3.4869e+01	9.4778e+01
	0.87 0.90	0.90 0.91	0.90 0.89	0.89 0.88	0.87 0.88	0.80 0.76	0.76 0.66	0.26 0.03
^{205}Pb	$(np)^{205}$Tl	8.3300e−01	2.5	0.5	0.0400	0.01	6.6e−02	0
	−4.3840e+01	−1.5961e+00	1.3296e+02	−1.0903e+02	1.7030e+00	−2.9204e−02	9.2750e+01	−4.2741e+01
^{205}Pb	$(n\alpha)^{202}$Hg	9.2250e+00	2.5	0.0	0.0400	0.01	1.7e−03	0
	1.4106e+02	−1.4608e+00	1.0969e+02	−2.7718e+02	2.6568e+01	−1.9016e+00	1.0422e+02	1.4148e+02
^{206}Pb	$(n\gamma)^{207}$Pb	6.7380e+00	0.0	0.5	0.0100	0.01	3.4e−03	
	6.0211e+01	−3.1535e−01	3.3045e+01	−8.4902e+01	8.0089e+00	−7.4116e−01	3.2257e+01	8.3216e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.97 0.90	0.84 0.70	0.33 0.05
^{206}Pb	$(n\alpha)^{203}$Hg	7.1300e+00	0.0	2.5	0.0100	0.01	3.0e−02	0
	−8.3422e+00	−1.3667e−01	−1.0840e+01	−1.5056e+00	9.6747e+00	−1.0455e+00	−8.4373e+00	−1.1498e+01
^{207}Pb	$(n\gamma)^{208}$Pb	7.3680e+00	0.5	0.0	0.2050	0.01	2.9e−03	
	6.9256e+01	−3.3584e−01	3.5832e+01	−9.9506e+01	1.0035e+01	−9.2503e−01	3.5968e+01	9.3648e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.99 1.02	1.13 1.18	0.49 0.06
^{207}Pb	$(n\alpha)^{204}$Hg	7.8870e+00	0.5	0.0	0.2050	0.01	1.5e−02	0
	8.3865e+01	−7.5898e−01	5.4887e+01	−1.6704e+02	2.1267e+01	−1.7106e+00	5.5901e+01	8.3194e+01
^{208}Pb	$(n\gamma)^{209}$Pb	3.9360e+00	0.0	4.5	0.2700	0.01	4.3e−03	
	7.5908e+01	−4.1947e−01	4.4932e+01	−1.2014e+02	1.2152e+01	−1.1179e+00	4.4683e+01	9.7304e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 0.98	0.34 0.03
^{208}Pb	$(n\alpha)^{205}$Hg	6.1870e+00	0.0	0.5	0.2700	0.01	4.8e−02	0
	−5.3722e+01	4.2239e−01	−7.3735e+01	9.9029e+01	8.4623e+00	−1.3844e+00	−5.8991e+01	−5.5780e+01
^{209}Pb	$(n\gamma)^{210}$Pb	5.1850e+00	4.5	0.0	2.0900	0.01	2.2e−03	
	6.2550e+01	−2.6918e−01	2.9775e+01	−8.7647e+01	9.3812e+00	−9.0975e−01	3.0771e+01	8.8551e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.85	0.29 0.03
^{209}Pb	$(n\alpha)^{206}$Hg	8.9770e+00	4.5	0.0	2.0900	0.01	2.4e−03	0
	1.0523e+02	−1.0433e+00	8.0138e+01	−2.0940e+02	2.1227e+01	−1.5271e+00	7.7137e+01	1.0617e+02
^{210}Pb	$(n\gamma)^{211}$Pb	3.8260e+00	0.0	4.5	0.1700	0.01	3.4e−03	
	4.3206e+01	−2.0573e−01	2.1995e+01	−5.9029e+01	6.4878e+00	−6.9308e−01	2.1868e+01	6.4602e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.04 1.07	1.03 0.81	0.30 0.03
^{210}Pb	$(n\alpha)^{207}$Hg	7.1740e+00	0.0	4.5	0.1700	0.01	9.0e−03	0
	−2.7860e+01	9.7061e−02	−2.3521e+01	3.3156e+01	6.0806e+00	−7.7029e−01	−2.0514e+01	−3.1527e+01
^{211}Pb	$(n\gamma)^{212}$Pb	5.1320e+00	4.5	0.0	0.8350	0.01	1.3e−03	
	3.4475e+01	−6.5914e−02	8.3712e+00	−3.4202e+01	5.2151e+00	−6.7379e−01	9.9614e+00	6.0477e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	0.93 0.46	0.07 0.01
^{211}Pb	$(n\alpha)^{208}$Hg	9.3040e+00	4.5	0.0	0.8350	0.01	6.6e−03	0
	1.1320e+02	−1.0106e+00	8.1962e+01	−2.1831e+02	2.2047e+01	−1.6158e+00	7.9953e+01	1.1414e+02
^{212}Pb	$(n\gamma)^{213}$Pb	3.1920e+00	0.0	4.5	0.0500	0.01	2.0e−03	0
	2.4397e+01	−1.7972e−02	3.4370e+00	−1.9705e+01	4.2851e+00	−6.5214e−01	4.9729e+00	4.5793e+01
^{213}Pb	$(n\gamma)^{214}$Pb	5.1420e+00	4.5	0.0	0.4550	0.01	2.5e−03	0
	−3.7678e+00	1.5621e−01	−1.6376e+01	3.5238e+01	−1.2308e+00	−2.0605e−01	−1.5359e+01	2.2233e+01
^{214}Pb	$(n\gamma)^{215}$Pb	3.1690e+00	0.0	3.5	0.0250	0.01	1.3e−02	0
	−3.1146e+01	3.7371e−01	−3.8070e+01	8.5504e+01	−4.2618e+00	−9.7708e−02	−3.5626e+01	−9.5264e+00
^{215}Pb	$(n\gamma)^{216}$Pb	5.0440e+00	3.5	0.0	0.1900	0.01	2.9e−03	0
	−3.4026e+01	3.1856e−01	−3.4927e+01	8.9046e+01	−6.3011e+00	1.6529e−01	−3.4677e+01	−8.2476e+00
^{216}Pb	$(n\gamma)^{217}$Pb	3.1430e+00	0.0	4.5	0.0100	0.01	2.3e−02	0
	−7.9038e+01	6.7849e−01	−7.1243e+01	1.7342e+02	−1.1798e+01	4.2711e−01	−6.8777e+01	−5.7642e+01
^{217}Pb	$(n\gamma)^{218}$Pb	4.8600e+00	4.5	0.0	0.1150	0.01	5.9e−03	0

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	−5.5543e+01	4.5149e−01	−4.9468e+01	1.2827e+02	−9.7967e+00	4.0780e−01	−4.9302e+01	−2.9542e+01
^{218}Pb	(nγ)^{219}Pb	2.9550e+00	0.0	0.5	0.0100	0.01	2.9e−02	0
	−1.0397e+02	8.3694e−01	−8.8650e+01	2.1959e+02	−1.5836e+01	7.1050e−01	−8.6230e+01	−8.0966e+01
^{219}Pb	(nγ)^{220}Pb	4.6630e+00	0.5	0.0	0.0750	0.01	3.5e−03	0
	−6.8350e+01	3.8638e−01	−4.6226e+01	1.4056e+02	−1.2828e+01	7.2041e−01	−4.9522e+01	−4.3958e+01
^{220}Pb	(nγ)^{221}Pb	2.1080e+00	0.0	2.5	0.0100	0.01	4.3e−02	0
	−1.3055e+02	9.8570e−01	−1.0516e+02	2.6642e+02	−2.0183e+01	1.0292e+00	−1.0315e+02	−1.0864e+02
^{221}Pb	(nγ)^{222}Pb	4.7210e+00	2.5	0.0	0.0550	0.01	4.8e−03	0
	−1.5722e+01	4.3265e−01	−4.0327e+01	7.6417e+01	−5.0282e+00	8.5508e−02	−3.4747e+01	9.7692e+00
^{222}Pb	(nγ)^{223}Pb	3.1650e+00	0.0	2.5	0.0100	0.01	3.5e−03	0
	−8.5533e+01	5.1739e−01	−5.9612e+01	1.7393e+02	−1.5331e+01	8.3504e−01	−6.2392e+01	−6.3626e+01
^{223}Pb	(nγ)^{224}Pb	4.6350e+00	2.5	0.0	0.0100	0.01	6.0e−03	0
	−2.0003e+01	3.0915e−01	−3.0760e+01	7.2531e+01	−6.1955e+00	2.1032e−01	−2.8777e+01	5.4881e+00
^{200}Bi	(np)^{200}Pb	6.6740e+00	7.0	0.0	0.0100	0.01	5.6e−03	
	4.7848e+01	−2.0345e−01	2.6441e+01	−6.8209e+01	5.5984e+00	−3.6415e−01	2.7142e+01	5.0556e+01
	1.43 1.86	2.26 2.62	2.95 3.23	3.48 3.67	3.83 3.94	4.10 3.68	3.52 4.70	7.74 6.73
^{200}Bi	(nα)^{197}Tl	1.3659e+01	7.0	0.5	0.0100	0.01	2.9e−03	0
	4.5473e+01	−3.7669e−01	3.1733e+01	−7.2461e+01	5.6077e+00	−2.8625e−01	2.9848e+01	4.6124e+01
^{201}Bi	(np)^{201}Pb	4.6260e+00	4.5	2.5	0.0100	0.01	4.3e−03	
	3.3819e+01	−3.9927e−02	9.6730e+00	−3.9425e+01	5.7679e+00	−5.6606e−01	1.2298e+01	3.4329e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.14 1.69	2.14 3.38	4.53 1.94
^{201}Bi	(nα)^{198}Tl	1.1707e+01	4.5	2.0	0.0100	0.01	3.2e−03	0
	2.1480e+01	−5.8397e−02	4.4666e+00	−2.3024e+01	4.1169e+00	−3.1932e−01	6.2623e+00	2.0810e+01
^{202}Bi	(np)^{202}Pb	5.9370e+00	5.0	0.0	0.0100	0.01	1.8e−03	
	3.5881e+01	−8.5731e−02	1.3705e+01	−4.4710e+01	5.3496e+00	−4.5967e−01	1.5433e+01	3.8279e+01
	0.68 0.65	0.70 0.74	0.78 0.81	0.83 0.86	0.87 0.89	0.96 0.96	1.12 1.22	1.38 1.07
^{202}Bi	(nα)^{199}Tl	1.2972e+01	5.0	0.5	0.0100	0.01	4.3e−03	0
	4.3014e+01	−2.1742e−01	2.1288e+01	−6.2182e+01	6.5979e+00	−4.5789e−01	2.2222e+01	4.3355e+01
^{203}Bi	(np)^{203}Pb	4.0350e+00	4.5	2.5	0.0100	0.01	3.3e−03	
	−7.5921e+00	2.2401e−01	−1.8720e+01	3.3687e+01	−2.7428e−01	−8.1758e−02	−1.5742e+01	−7.0813e+00
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.20 1.99	3.06 4.93	8.55 10.23
^{203}Bi	(nα)^{200}Tl	1.1163e+01	4.5	2.0	0.0100	0.01	2.0e−04	0
	5.2604e+01	−2.4894e−01	2.6669e+01	−8.2876e+01	9.4305e+00	−7.0400e−01	2.8583e+01	5.1933e+01
^{204}Bi	(np)^{204}Pb	5.2200e+00	6.0	0.0	0.0100	0.01	1.9e−03	
	4.6313e+01	−1.3877e−01	2.0189e+01	−6.4636e+01	7.3715e+00	−6.4323e−01	2.2468e+01	4.8877e+01
	4.53 5.18	5.38 5.64	5.92 6.18	6.41 6.62	6.79 6.94	6.67 5.79	5.86 6.91	7.31 3.22
^{204}Bi	(nα)^{201}Tl	1.2157e+01	6.0	0.5	0.0100	0.01	3.0e−03	0
	6.4682e+01	−3.7531e−01	3.7379e+01	−1.0481e+02	1.0130e+01	−6.7591e−01	3.8167e+01	6.5189e+01
^{205}Bi	(np)^{205}Pb	3.4910e+00	4.5	2.5	0.0100	0.01	7.0e−04	
	2.4907e+01	5.2011e−02	9.6483e−01	−2.6908e+01	6.6824e+00	−7.4573e−01	5.0959e+00	2.5417e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.01 1.01	1.31 2.49	4.43 8.34	8.29 2.93
^{205}Bi	(nα)^{202}Tl	1.0569e+01	4.5	2.0	0.0100	0.01	1.3e−03	0
	7.4445e+01	−3.8037e−01	4.2276e+01	−1.2542e+02	1.3200e+01	−9.7236e−01	4.4334e+01	7.3774e+01
^{206}Bi	(np)^{206}Pb	4.5400e+00	0.0	0.0	0.0100	0.01	2.5e−03	
	1.8264e+01	9.0212e−02	−6.8210e+00	−7.6727e+00	4.1263e+00	−4.0549e−01	−3.7776e+00	1.8264e+01
	0.99 0.69	0.39 0.25	0.19 0.15	0.13 0.11	0.10 0.10	0.08 0.11	0.20 0.65	1.26 1.64
^{206}Bi	(nα)^{203}Tl	1.1379e+01	0.0	0.5	0.0100	0.01	7.0e−03	0
	6.8262e+01	−2.8248e−01	3.4783e+01	−1.0893e+02	1.1441e+01	−7.6964e−01	3.6957e+01	6.6205e+01
^{207}Bi	(np)^{207}Pb	3.1810e+00	4.5	0.5	0.0100	0.01	2.4e−03	
	−2.7742e+01	2.6825e−01	−2.5298e+01	5.4965e+01	−7.8976e−01	−1.1450e−01	−2.3387e+01	−2.6132e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.01	1.51 3.11	5.76 12.44	20.19 27.35
^{207}Bi	(nα)^{204}Tl	9.9380e+00	4.5	2.0	0.0100	0.01	1.4e−03	0
	8.2790e+01	−4.0799e−01	4.7004e+01	−1.4276e+02	1.5269e+01	−1.1196e+00	4.9830e+01	8.2118e+01
^{208}Bi	(nγ)^{209}Bi	7.4600e+00	5.0	4.5	0.0100	0.01	1.4e−03	
	5.4701e+01	−2.0924e−01	2.3142e+01	−6.7838e+01	7.0266e+00	−6.8657e−01	2.3891e+01	7.8495e+01
	1.00 0.99	0.96 0.94	0.92 0.91	0.90 0.89	0.89 0.89	0.84 0.79	0.74 0.56	0.22 0.03
^{208}Bi	(np)^{208}Pb	3.6620e+00	5.0	0.0	0.0100	0.01	2.2e−03	0
	1.1363e+01	−6.5343e−02	8.3029e+00	−1.9517e+01	3.1334e+00	−2.4695e−01	7.7790e+00	1.3761e+01
^{208}Bi	(nα)^{205}Tl	1.0598e+01	5.0	0.5	0.0100	0.01	7.2e−03	0
	1.0074e+02	−5.5457e−01	6.2880e+01	−1.7677e+02	1.6785e+01	−1.1313e+00	6.4407e+01	1.0108e+02
^{209}Bi	(nγ)^{210}Bi	4.6050e+00	4.5	1.0	0.0100	0.01	1.7e−03	

Target	Reaction	Q	J_i	J_f	$T_\mathrm{low}^\mathrm{HF}$	$T_\mathrm{low}^\mathrm{fit}$	Dev	SEF
	a_0	a_1	a_2	a_3	a_4	a_5	a_6	a_0^rev
T_9^SEF:	0.1 0.2	0.3 0.4	0.5 0.6	0.7 0.8	0.9 1.0	2.0 3.0	4.0 6.0	8.0 10.0
	6.5323e+01	−2.4154e−01	2.8304e+01	−8.8337e+01	9.7918e+00	−9.6643e−01	3.0315e+01	9.0225e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 0.99	1.00 0.80	0.21 0.02
^{209}Bi	$(\mathrm{np})^{209}$Pb	1.3900e−01	4.5	4.5	0.0100	0.01	5.1e−03	0
	1.0635e+02	1.8804e+00	−2.8406e+01	−1.1432e+02	8.1248e+00	−5.7318e−01	4.7398e+01	1.0635e+02
^{209}Bi	$(\mathrm{n}\alpha)^{206}$Tl	9.6420e+00	4.5	0.0	0.0100	0.01	1.2e−02	0
	1.4330e+02	−2.4937e+00	1.4706e+02	−3.1559e+02	2.8209e+01	−2.0441e+00	1.2732e+02	1.4424e+02
^{210}Bi	$(\mathrm{n}\gamma)^{211}$Bi	5.1350e+00	1.0	4.5	0.0450	0.01	3.4e−03	
	6.9209e+01	−3.3997e−01	3.6973e+01	−9.9924e+01	9.3449e+00	−8.3998e−01	3.7114e+01	9.1704e+01
	1.00 0.98	0.96 0.94	0.93 0.94	0.95 0.96	0.97 0.99	0.94 0.93	0.94 0.83	0.33 0.04
^{210}Bi	$(\mathrm{np})^{210}$Pb	7.1900e−01	1.0	0.0	0.0450	0.01	3.3e−02	0
	1.1191e+02	−2.7152e+00	2.5750e+02	−4.1045e+02	2.3115e+01	−1.3796e+00	2.1526e+02	1.1301e+02
^{210}Bi	$(\mathrm{n}\alpha)^{207}$Tl	1.1886e+01	1.0	0.5	0.0450	0.01	7.7e−04	
	1.2758e+02	−1.9072e+00	1.2241e+02	−2.5937e+02	1.9736e+01	−1.2231e+00	1.0677e+02	1.2662e+02
	1.00 0.99	0.97 0.95	0.93 0.91	0.87 0.83	0.78 0.72	0.41 0.39	0.52 1.66	5.32 10.80
^{211}Bi	$(\mathrm{n}\gamma)^{212}$Bi	4.3330e+00	4.5	0.0	0.0300	0.01	3.7e−05	
	2.5813e+01	−5.1996e−02	5.5426e+00	−1.9174e+01	2.9444e+00	−4.3902e−01	5.9160e+00	5.1814e+01
	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	0.95 0.87	0.72 0.31	0.07 0.01
^{211}Bi	$(\mathrm{n}\alpha)^{208}$Tl	1.0540e+01	4.5	0.0	0.0300	0.01	1.6e−03	0
	7.3754e+01	−1.3975e+00	7.9161e+01	−1.6175e+02	1.4022e+01	−9.5572e−01	6.6760e+01	7.4692e+01
^{212}Bi	$(\mathrm{n}\gamma)^{213}$Bi	5.1810e+00	0.0	4.5	0.0100	0.01	2.0e−03	
	6.2325e+01	−3.8470e−01	4.0011e+01	−9.1939e+01	6.9171e+00	−6.2531e−01	3.7877e+01	8.3721e+01
	1.00 1.00	1.04 1.15	1.33 1.54	1.72 1.85	1.95 2.00	1.76 1.31	0.90 0.31	0.06 0.01
^{212}Bi	$(\mathrm{np})^{212}$Pb	2.0800e−01	0.0	0.0	0.0100	0.01	5.6e−03	0
	1.1722e+02	1.6195e+00	−7.3328e+00	−1.4836e+02	1.0216e+01	−6.1440e−01	6.1352e+01	1.1722e+02
^{212}Bi	$(\mathrm{n}\alpha)^{209}$Tl	1.1164e+01	0.0	0.5	0.0100	0.01	1.0e−03	
	9.6010e+01	−2.2450e+00	1.2182e+02	−2.2469e+02	1.5602e+01	−8.7595e−01	9.8854e+01	9.3952e+01
	1.00 1.00	0.99 0.97	0.96 0.94	0.92 0.91	0.89 0.87	0.74 0.73	0.95 3.21	12.88 44.09
^{213}Bi	$(\mathrm{n}\gamma)^{214}$Bi	4.0430e+00	4.5	1.0	0.0100	0.01	3.8e−04	
	1.5623e+01	1.4625e−02	−1.6838e+00	8.9864e−01	1.0128e+00	−3.1473e−01	−1.3859e+00	4.0525e+01
	1.00 1.00	1.00 1.00	1.00 1.00	0.99 0.99	0.99 0.98	0.92 0.78	0.57 0.16	0.02 0.00
^{213}Bi	$(\mathrm{n}\alpha)^{210}$Tl	9.6640e+00	4.5	5.0	0.0100	0.01	4.0e−03	0
	1.0387e+02	−2.0904e+00	1.1778e+02	−2.3754e+02	1.9922e+01	−1.3533e+00	9.8910e+01	1.0241e+02
^{214}Bi	$(\mathrm{n}\gamma)^{215}$Bi	5.1520e+00	1.0	4.5	0.0100	0.01	2.8e−03	0
	2.0714e+01	−8.8201e−02	7.4524e+00	−1.2412e+01	7.0759e−01	−2.0244e−01	5.9342e+00	4.3209e+01
^{215}Bi	$(\mathrm{n}\gamma)^{216}$Bi	3.6660e+00	4.5	3.0	0.0100	0.01	9.0e−04	0
	−7.1928e+00	1.3515e−01	−1.5439e+01	4.1097e+01	−2.8634e+00	−3.6332e−02	−1.5734e+01	1.6863e+01
^{216}Bi	$(\mathrm{n}\gamma)^{217}$Bi	5.1430e+00	3.0	0.5	0.0100	0.01	6.5e−04	0
	3.7186e+01	−1.1304e−02	4.8632e+00	−2.7145e+01	2.8593e+00	−4.0558e−01	7.6238e+00	6.2137e+01
^{217}Bi	$(\mathrm{n}\gamma)^{218}$Bi	3.6030e+00	0.5	1.0	0.0100	0.01	1.2e−03	0
	2.3488e+01	−1.7984e−02	4.1312e+00	−1.1161e+01	2.9815e−01	−1.9741e−01	4.9384e+00	4.6781e+01
^{218}Bi	$(\mathrm{n}\gamma)^{219}$Bi	4.8420e+00	1.0	0.5	0.0100	0.01	1.2e−03	0
	2.1576e+01	1.7380e−01	−1.2427e+01	8.1077e+00	2.9997e−01	−2.4752e−01	−7.5356e+00	4.5680e+01
^{219}Bi	$(\mathrm{n}\gamma)^{220}$Bi	3.4290e+00	0.5	3.0	0.0100	0.01	1.1e−03	0
	1.6540e+01	1.9333e−02	−1.7014e−01	1.5825e+00	−1.0911e+00	−9.0215e−02	4.2791e−01	3.8986e+01
^{220}Bi	$(\mathrm{n}\gamma)^{221}$Bi	4.8030e+00	3.0	0.5	0.0100	0.01	1.6e−03	0
	1.5176e+01	2.0027e−01	−1.6173e+01	1.9156e+01	−6.9334e−01	−1.8204e−01	−1.1706e+01	4.0128e+01
^{221}Bi	$(\mathrm{n}\gamma)^{222}$Bi	3.2660e+00	0.5	3.0	0.0100	0.01	3.5e−03	0
	1.8108e+00	2.1587e−01	−1.8511e+01	3.6349e+01	−3.2597e+00	2.6505e−02	−1.5392e+01	2.4257e+01
^{222}Bi	$(\mathrm{n}\gamma)^{223}$Bi	4.7670e+00	3.0	0.5	0.0100	0.01	1.9e−03	0
	9.5495e+00	2.3097e−01	−1.9542e+01	2.9541e+01	−1.8595e+00	−9.4659e−02	−1.5223e+01	3.4501e+01
^{223}Bi	$(\mathrm{n}\gamma)^{224}$Bi	3.5170e+00	0.5	2.0	0.0100	0.01	4.6e−03	0
	−1.3425e+01	3.6032e−01	−3.3073e+01	6.8714e+01	−5.6308e+00	1.7420e−01	−2.8885e+01	9.3573e+00
^{224}Bi	$(\mathrm{n}\gamma)^{225}$Bi	4.5270e+00	2.0	0.5	0.0100	0.01	2.0e−03	0
	−6.4374e+00	3.7365e−01	−3.3886e+01	6.1997e+01	−4.2679e+00	5.7792e−02	−2.8558e+01	1.8178e+01
^{225}Bi	$(\mathrm{n}\gamma)^{226}$Bi	3.3260e+00	0.5	3.0	0.0100	0.01	4.4e−03	0
	−2.7864e+01	5.4962e−01	−5.1201e+01	1.0271e+02	−7.5573e+00	2.7473e−01	−4.4667e+01	−5.4180e+00