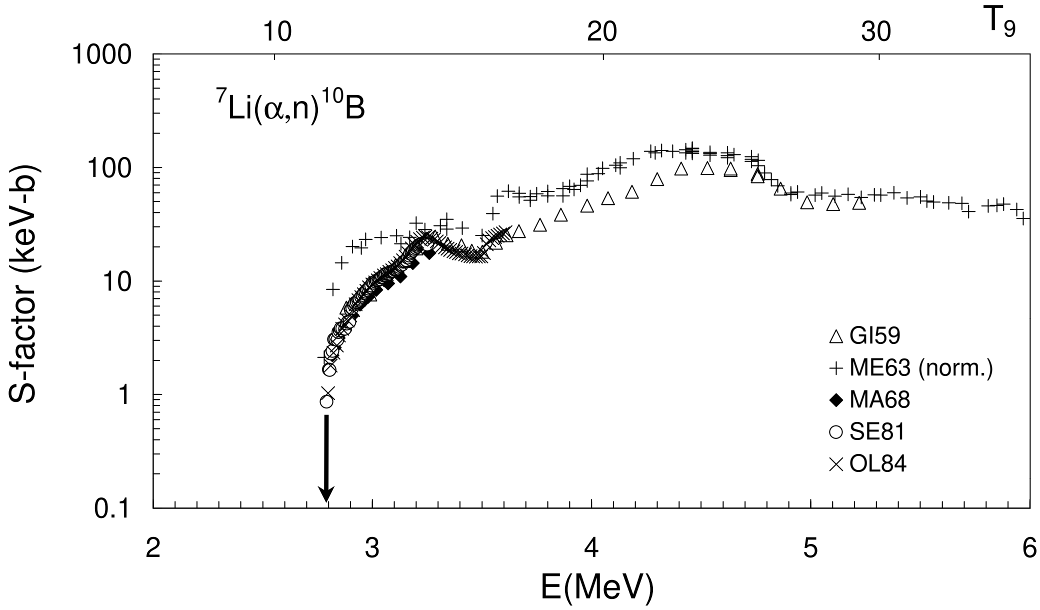
Reaction : ^{7}Li(α,n)^{10}B

Experimental data from GI59, MA68, SE81 and OL84 covering the energy range from threshold ($Q = -2.790$ MeV) to $E = 5.22$ MeV are adopted. From threshold to $E = 3.61$ MeV, OL84 and SE81 are selected, as a careful and complete discussion of possible sources of errors is provided. At higher energies up to 5.22 MeV, the GI59 data are used, following the suggestion of SE81 and OL84. Differential cross sections are reported by ME63 for a wide energy range. We have converted them into total cross sections assuming isotropy and 100% error. All these resulting values are shown in the figure, but only those above $E = 5.22$ MeV are adopted. The CA88 rates rely only on a continuum term, which is in contradiction with the experimental data. At energies close to threshold, the cross sections used in CA88 are much higher than the experimental ones.



T_9	low	adopt	high	exp	ratio	T_9	low	adopt	high	exp	ratio	T_9	low	adopt	high	exp	ratio
0.45	1.33	1.46	1.60	-24	0.1	1.25	2.02	2.17	2.31	-4	0.1	4	2.50	2.65	2.79	4	0.2
0.5	1.82	2.00	2.18	-21	0.1	1.5	1.69	1.80	1.92	-2	0.1	5	1.54	1.65	1.76	5	0.3
0.6	0.94	1.03	1.11	-16	0.1	1.75	4.02	4.29	4.56	-1	0.1	6	5.23	5.74	6.24	5	0.3
0.7	2.22	2.41	2.60	-13	0.1	2	4.39	4.68	4.96	0	0.1	7	1.25	1.41	1.58	6	0.4
0.8	7.62	8.25	8.87	-11	0.1	2.5	1.30	1.38	1.46	2	0.2	8	2.38	2.80	3.22	6	0.4
0.9	7.22	7.79	8.36	-9	0.1	3	1.30	1.37	1.45	3	0.2	9	3.91	4.81	5.71	6	0.5
1	2.78	2.99	3.20	-7	0.1	3.5	6.95	7.35	7.75	3	0.2	10	5.67	7.37	9.07	6	0.5