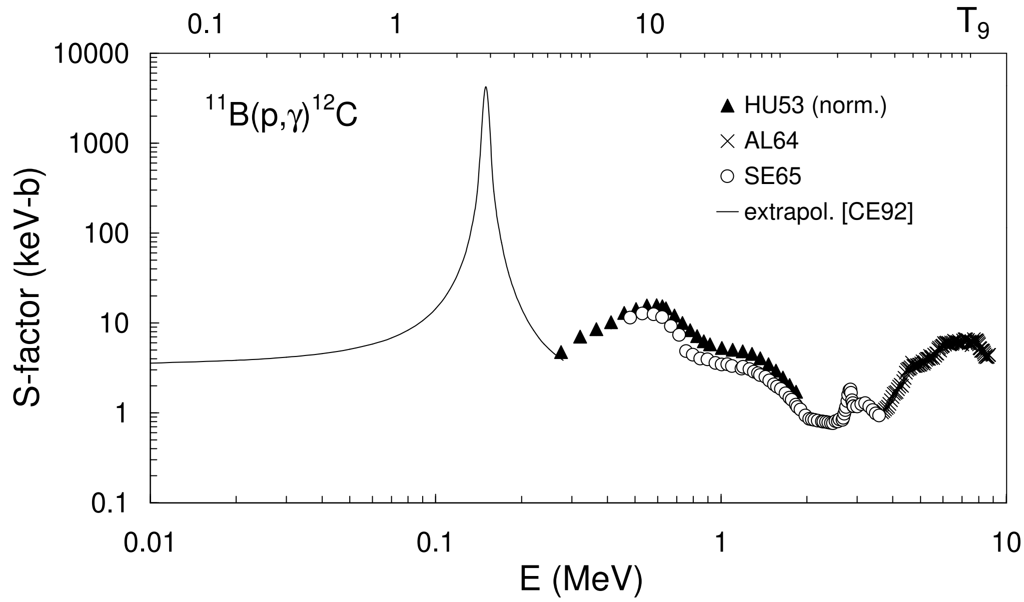
Reaction : $^{11}B(p,\gamma)^{12}C$

The experimental data of AL64 and SE65 are used for $E \geq 481$ keV. Below $E = 481$ keV, the data of HU53 normalized to $\sigma = 45$ μb at $E = 623$ keV [SE65] and a linear extrapolation to the $\mathcal{S}_0$ value determined by direct capture calculations from CE92 are used ($\mathcal{S}_0 = 3.3 \pm 0.5$ keV b). The 149 keV resonance ($J^\pi = 2^+$) is also included. The adopted resonance strength is the averaged value of HU53 and AN74 ($\omega\gamma = 0.0393 \pm 0.0056$ eV). The derived reaction rates are lower than the CA88 ones for most considered temperatures. This is due mainly to the adoption by CA88 of the HU53 data, which are higher than the presently adopted values.



T_9	low	adopt	high	exp	ratio	T_9	low	adopt	high	exp	ratio	T_9	low	adopt	high	exp	ratio
0.004	1.23	1.45	1.67	-24	0.9	0.06	0.99	1.17	1.35	-5	0.6	0.6	7.27	8.66	10.1	2	0.9
0.005	2.48	2.92	3.36	-22	0.9	0.07	4.68	5.52	6.36	-5	0.6	0.7	0.92	1.09	1.27	3	0.9
0.006	1.37	1.61	1.85	-20	0.8	0.08	2.29	2.72	3.14	-4	0.6	0.8	1.10	1.31	1.52	3	1.0
0.007	3.63	4.28	4.93	-19	0.9	0.09	1.24	1.47	1.70	-3	0.7	0.9	1.29	1.53	1.77	3	1.0
0.008	5.28	6.22	7.17	-18	0.9	0.1	5.97	7.11	8.25	-3	0.8	1	1.50	1.77	2.04	3	1.0
0.009	5.00	5.89	6.78	-17	0.9	0.11	2.33	2.78	3.22	-2	0.8	1.25	2.12	2.47	2.82	3	1.0
0.01	3.46	4.07	4.69	-16	0.8	0.12	7.38	8.79	10.2	-2	0.8	1.5	2.89	3.33	3.78	3	1.0
0.011	1.88	2.21	2.55	-15	0.8	0.13	1.96	2.34	2.72	-1	0.8	1.75	3.77	4.31	4.85	3	0.9
0.012	8.39	9.89	11.4	-15	0.8	0.14	4.52	5.39	6.26	-1	0.8	2	4.70	5.35	5.99	3	0.9
0.013	3.20	3.77	4.34	-14	0.8	0.15	0.93	1.11	1.29	0	0.8	2.5	6.59	7.44	8.30	3	0.8
0.014	1.07	1.26	1.45	-13	0.8	0.16	1.73	2.07	2.40	0	0.8	3	8.38	9.42	10.5	3	0.7
0.015	3.20	3.77	4.34	-13	0.8	0.18	4.83	5.77	6.70	0	0.8	3.5	1.00	1.12	1.24	4	0.7
0.016	0.87	1.03	1.18	-12	0.8	0.2	1.08	1.29	1.50	1	0.8	4	1.14	1.28	1.42	4	0.7
0.018	5.11	6.02	6.94	-12	0.8	0.25	4.40	5.25	6.10	1	0.8	5	1.38	1.54	1.70	4	0.7
0.02	2.35	2.76	3.18	-11	0.8	0.3	1.07	1.28	1.48	2	0.9	6	1.57	1.75	1.93	4	0.7
0.025	4.94	5.82	6.70	-10	0.7	0.35	1.95	2.32	2.70	2	0.9	7	1.74	1.94	2.14	4	0.7
0.03	5.03	5.92	6.82	-9	0.7	0.4	2.98	3.56	4.13	2	0.9	8	1.90	2.12	2.34	4	0.7
0.04	1.46	1.72	1.98	-7	0.7	0.45	4.08	4.87	5.65	2	0.9	9	2.08	2.32	2.56	4	0.7
0.05	1.60	1.88	2.17	-6	0.6	0.5	5.18	6.18	7.17	2	0.9	10	2.29	2.54	2.80	4	0.7