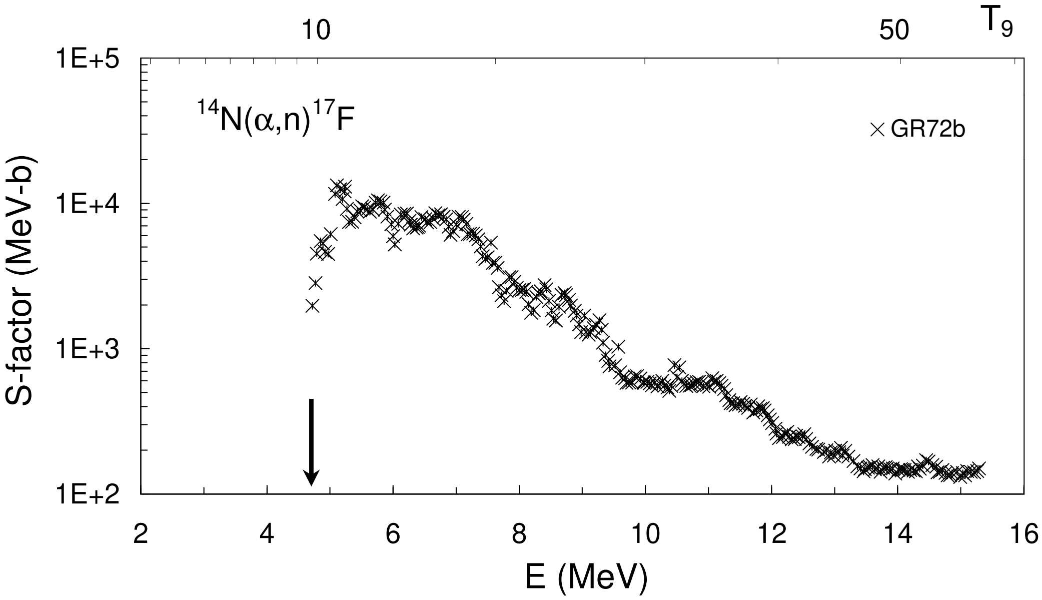
Reaction: ^{14}N(α,n)^{17}F

For this endoergic reaction ($Q = -4.735$ MeV), the rates are determined by using the cross section data of GR72b, which cover the energy range from threshold to 15.5 MeV. At low temperatures, the difference between the adopted rates and the CA88 ones is most likely due to the use by CA88 of the 8 data points of RO83b, which correspond to thick-target yields. At high temperatures, thermalizations corrections increase the ratio of our adopted rates to the CA88 ones (our $r_{\rm tt}$ goes up to 1.3 at $T_9 = 10$, while CA88 adopt $r_{\rm tt} = 1$ at all T_9).



T_9	low	adopt	high	exp	ratio	T_9	low	adopt	high	exp	ratio	T_9	low	adopt	high	exp	ratio
0.7	1.04	1.10	1.15	-26	0.1	1.75	2.78	2.93	3.07	-6	0.3	5	2.32	2.45	2.57	3	0.9
0.8	1.84	1.94	2.04	-22	0.1	2	1.43	1.50	1.58	-4	0.4	6	1.49	1.57	1.65	4	0.9
0.9	3.71	3.91	4.11	-19	0.1	2.5	3.57	3.76	3.95	-2	0.6	7	5.61	5.91	6.21	4	0.9
1	1.64	1.73	1.81	-16	0.1	3	1.43	1.50	1.58	0	0.7	8	1.52	1.60	1.68	5	0.9
1.25	0.96	1.01	1.06	-11	0.2	3.5	1.99	2.10	2.20	1	0.8	9	3.28	3.46	3.63	5	0.9
1.5	1.47	1.54	1.62	-8	0.2	4	1.44	1.52	1.60	2	0.8	10	6.07	6.39	6.71	5	1.0