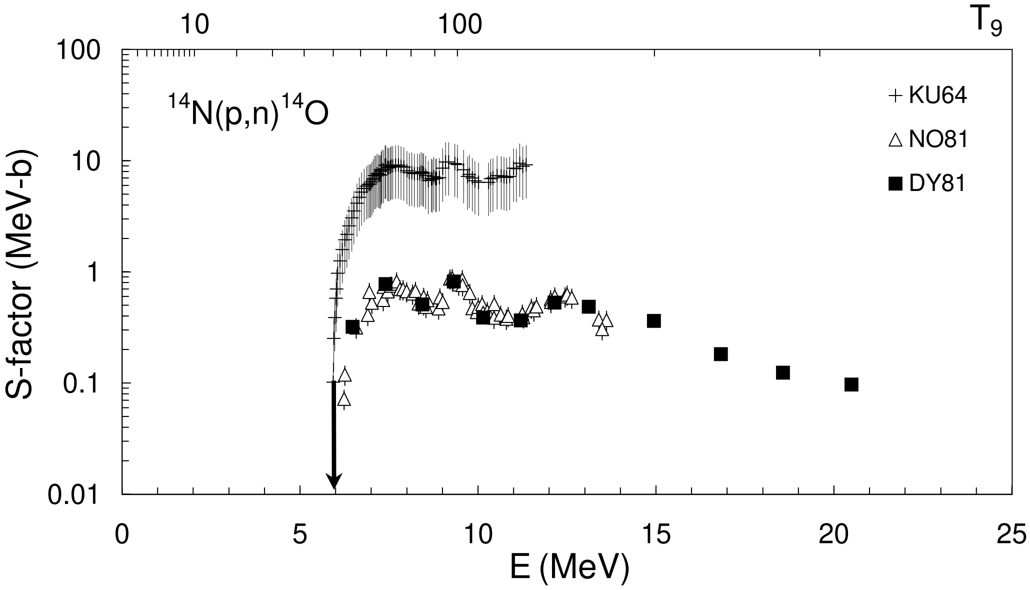
Reaction : $^{14}N(p,n)^{14}O$

For this endoergic reaction ($Q = -5.926$ MeV), the reaction rates are obtained from the data of DY81 and NO81, with a linear interpolation between the experimental data points. The data from KU64 differ by more than one order of magnitude from the DY81 and NO81 data, which are in excellent agreement. This large discrepancy may be due to the technique used in KU64 for determining the nitrogen content in the foil targets, but no definite conclusion can be drawn from the paper. The KU64 data are used for the determination of the upper limits of the rates, while the data from DY81 and NO81 are used for the adopted rates and the lower limits. Our thermalization corrections give up to a factor 2.9 at $T_9 = 10$ (CA88 adopted $r_{tt} = 1$ at all T_9). The adopted rates are about 5 to 10 times lower than the CA88 rates, which are probably based on the KU64 data only.



T_9	low	adopt	high	exp	ratio	T_9	low	adopt	high	exp	ratio	T_9	low	adopt	high	exp	ratio
1	5.14	6.37	266	-24	0.1	2.5	1.09	1.32	33.3	-5	0.1	6	1.97	2.41	48.5	2	0.2
1.25	6.03	7.41	273	-18	0.1	3	1.27	1.53	36.0	-3	0.1	7	1.09	1.34	26.5	3	0.2
1.5	7.02	8.56	283	-14	0.1	3.5	3.81	4.62	103	-2	0.2	8	3.93	4.82	94.7	3	0.2
1.75	5.78	7.02	212	-11	0.1	4	4.93	5.99	129	-1	0.2	9	1.06	1.31	25.5	4	0.2
2	0.90	1.09	30.7	-8	0.1	5	1.79	2.18	45.1	1	0.2	10	2.35	2.89	56.3	4	0.2