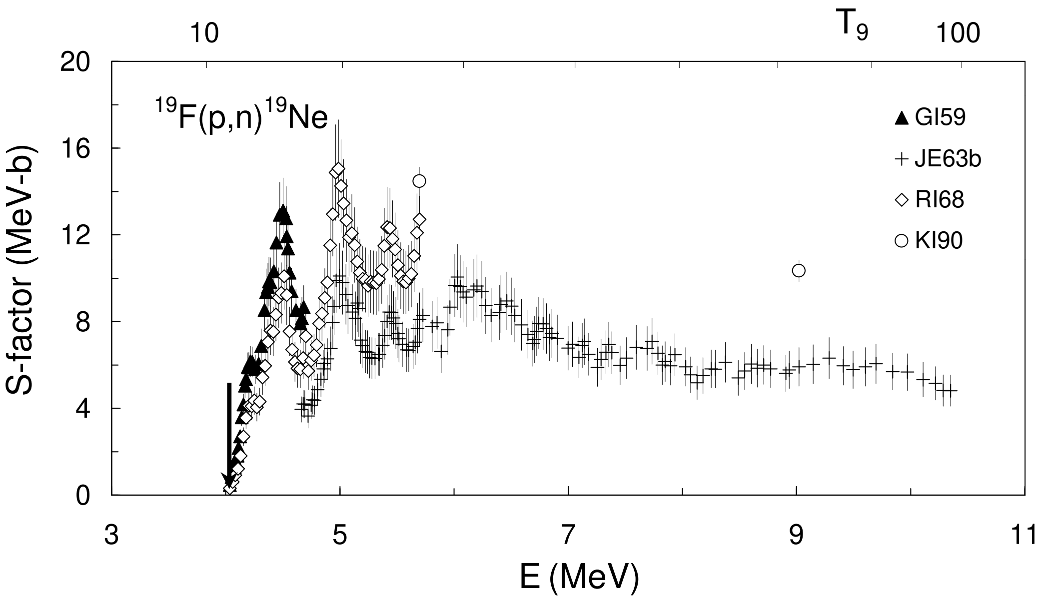
## Reaction : $^{19}F(p,n)^{19}Ne$

The relative data of GI59 and RI68 are consistent in their common energy interval $E = 4.0 - 4.7$ MeV. However, their absolute values differ by about 25%. RI68 quotes an error of 10%, while we estimate an error of 10% in GI59, mainly due to target uncertainties. For this energy region, the average of the two data sets is adopted. At $4.7 \leq$ E $\leq 5.8$ MeV, the data of RI68 renormalized ($\times 1.20$) to the average of GI59 and RI68 at lower energies are adopted. The selected data above 5.8 MeV are those of JE63b multiplied by 1.78 in order to bring the data in agreement with both RI68 and KI90a. The differences with CA88 at low temperatures are partly due to their adoption of the GI59 data, which are larger than those adopted here. Our thermalization effects are also important at all temperatures (from a factor of 3 at $T_9 = 0.7$ down to 1.5 at $T_9 = 10$). CA88 adopted the equal strength approximation ($r_{tt} = 1$).




| $T_9$ | low | adopt | high | exp | ratio | $T_9$ | low | adopt | high | exp | ratio | $T_9$ | low | adopt | high | exp | ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.7 | 7.07 | 8.13 | 9.19 | -22 | 1.8 | 1.75 | 2.76 | 3.18 | 3.60 | -4 | 2.1 | 5 | 1.36 | 1.55 | 1.74 | 4 | 2.1 |
| 0.8 | 3.20 | 3.68 | 4.16 | -18 | 1.9 | 2 | 8.20 | 9.43 | 10.7 | -3 | 2.1 | 6 | 6.77 | 7.71 | 8.65 | 4 | 2.1 |
| 0.9 | 2.25 | 2.58 | 2.92 | -15 | 2.0 | 2.5 | 0.95 | 1.09 | 1.24 | 0 | 2.1 | 7 | 2.14 | 2.43 | 2.72 | 5 | 2.1 |
| 1 | 4.27 | 4.91 | 5.56 | -13 | 2.0 | 3 | 2.28 | 2.62 | 2.96 | 1 | 2.1 | 8 | 5.09 | 5.77 | 6.44 | 5 | 2.1 |
| 1.25 | 5.47 | 6.29 | 7.12 | -9 | 2.1 | 3.5 | 2.22 | 2.54 | 2.87 | 2 | 2.1 | 9 | 1.00 | 1.13 | 1.26 | 6 | 2.1 |
| 1.5 | 3.02 | 3.48 | 3.93 | -6 | 2.1 | 4 | 1.23 | 1.41 | 1.58 | 3 | 2.1 | 10 | 1.71 | 1.93 | 2.15 | 6 | 2.0 |