

Table 17.3 from (1982AJ01): Comparison of  $^{17}\text{N}$  and  $^{17}\text{Ne}$   $\beta$ -decay <sup>a</sup>

| Final state in  |                 | $J^\pi$         | $\Gamma_n$ <sup>b,c</sup> (keV) | $\Gamma_p$ <sup>b</sup> (keV) | $(ft)^-$ <sup>d,e</sup>       | $(ft)^+$ <sup>d</sup>         | $\delta$ <sup>f</sup> |
|-----------------|-----------------|-----------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------|
| $^{17}\text{O}$ | $^{17}\text{F}$ |                 |                                 |                               |                               |                               |                       |
| 3.06            | 3.10            | $\frac{1}{2}^-$ | 0                               | 19                            | $(1.2 \pm 0.2) \times 10^7$   | $(2.78 \pm 0.40) \times 10^6$ | $-0.77 \pm 0.08$      |
| 4.55            | 4.70            | $\frac{3}{2}^-$ | 55                              | 230                           | $(2.57 \pm 0.13) \times 10^4$ | $(3.92 \pm 0.18) \times 10^4$ | $0.53 \pm 0.11$       |
| 5.38            | 5.52            | $\frac{3}{2}^-$ | 63                              | 69                            | $(7.2 \pm 0.3) \times 10^3$   | $(7.22 \pm 0.15) \times 10^3$ | $0.00 \pm 0.04$       |
| 5.94            | 6.04            | $\frac{1}{2}^-$ | 61                              | 28                            | $(2.24 \pm 0.16) \times 10^4$ | $(2.61 \pm 0.07) \times 10^4$ | $0.17 \pm 0.09$       |

<sup>a</sup> (1976AL02, 1976OH05). I am indebted to Dr. D.E. Alburger for his comments.

<sup>b</sup>  $\Gamma_n$  and  $\Gamma_p$  are the neutron and proton widths of the  $^{17}\text{O}$  and  $^{17}\text{F}$  states, respectively.

<sup>c</sup>  $\Gamma_n$  for  $^{17}\text{O}^*(4.55, 5.08, 5.38, 5.94)$  are reported to be, respectively  $54.8 \pm 0.4$ ,  $113 \pm 55$ ,  $63.2 \pm 1.1$  and  $60.5 \pm 3.2$  keV (1976OH05).

<sup>d</sup>  $(ft)^-$  and  $(ft)^+$  are for the  $^{17}\text{N}$  and  $^{17}\text{Ne}$  decays, respectively.

<sup>e</sup> See Table 17.2.

<sup>f</sup>  $\delta \equiv [(ft)^+/(ft)^-] - 1$ .