

Table 17.21 from (1977AJ02):  $\beta^+$  decay of  $^{17}\text{Ne}$  <sup>a</sup>

Decay to $^{17}\text{F}^*$ (MeV $\pm$ keV)	$J^\pi$	Branching (%)	$\log ft$ <sup>b</sup>	Decay to $^{16}\text{O}^*$ (MeV)	Decay (%)
0	$\frac{5}{2}^+$	$0.5 \pm 0.2$ <sup>c</sup>	$6.95 \pm 0.13$		
0.50	$\frac{1}{2}^+$	$1.1 \pm 0.5$ <sup>c</sup>	$6.55 \pm 0.21$		
$3.084 \pm 30$	$\frac{1}{2}^-$	$0.48 \pm 0.07$	$6.44 \pm 0.06$	0	100
$4.609 \pm 15$	$\frac{3}{2}^-$	$16.2 \pm 0.7$	$4.59 \pm 0.02$	0	100
$5.480 \pm 10$	$\frac{3}{2}^-$	$54.0 \pm 0.7$	$3.86 \pm 0.01$	0	100
$6.037 \pm 10$	$\frac{1}{2}^-$	$10.6 \pm 0.2$	$4.42 \pm 0.01$	0	100
$6.406 \pm 30$		$0.35 \pm 0.10$	$5.80 \pm 0.13$	0	100
$7.708 \pm 30$	$\frac{1}{2}^+$	$0.18 \pm 0.05$	$5.67 \pm 0.12$	0	> 95
				6.05	< 5
$8.075 \pm 10$	$\frac{5}{2}^+$	$6.83 \pm 0.11$	$3.96 \pm 0.01$	0	99.5
				6.05	$0.49 \pm 0.02$
$8.436 \pm 10$		$6.51 \pm 0.26$	$3.85 \pm 0.02$	0	94.3
				6.05	$5.7 \pm 0.5$
$8.825 \pm 25$		$1.90 \pm 0.06$	$4.23 \pm 0.02$	0	92.4
				6.05	$7.6 \pm 1.1$
$11.20$ <sup>e</sup>	$\frac{1}{2}^-; T = \frac{3}{2}$	$0.71^{+0.10}_{-0.05}$	$3.29^{+0.04}_{-0.07}$	0	$10 \pm 2$
				6.13	$22 \pm 2$
				6.92	$24 \pm 6$
				7.12	$44 \pm 4$
d			$0.54 \pm 0.05$		

<sup>a</sup> (1971HA05). See also Table 17.23 in (1971AJ02).

<sup>b</sup>  $\log ft$  values calculated by (1971HA05) using an atomic mass excess of  $16.517 \pm 0.026$  MeV [and  $\tau_{1/2} = 109.0 \pm 1.0$  msec] rather than the presently adopted  $16.48 \pm 0.05$  MeV. Since this energy difference leads to quite small changes, the original calculations are quoted here. However, Table 17.3 (which compares the analog decays) shows corrected  $ft$  values.

<sup>c</sup> Calculated branchings, based on the mirror  $^{17}\text{N}$  decay.

<sup>d</sup> A proton group with  $E_{c.m.} = 2.83$  MeV has been observed: the level in  $^{17}\text{F}$  to which it corresponds is not known.

<sup>e</sup> See also Table 17.11.