

Table 17.27 from (1993TI07):  $\beta^+$  decay of  $^{17}\text{Ne}$  <sup>a</sup>

Decay to $^{17}\text{F}^*$ (MeV)	$J^\pi$	Total branching ratio (%)		$\log ft$ <sup>c</sup>	Decay branches <sup>d</sup>
		Ref. <sup>a</sup>	Ref. <sup>b</sup>		
0.0	$\frac{5}{2}^+$	$0.55 \pm 0.17$ <sup>e</sup>		$9.56^{1u}_{-0.12}$ <sup>f</sup>	
0.495	$\frac{1}{2}^+$	$0.61 \pm 0.10$ <sup>e</sup>		$6.80^{+0.08}_{-0.06}$ <sup>f</sup>	
3.10	$\frac{1}{2}^-$	$0.10^{+0.03}_{-0.01}$	$0.48 \pm 0.07$	$7.12^{+0.05}_{-0.11}$	p <sub>0</sub>
4.65	$\frac{3}{2}^-$	$16.54 \pm 0.14$	$16.2 \pm 0.7$	$4.57 \pm 0.05$	p <sub>0</sub>
5.49	$\frac{3}{2}^-$	$59.16 \pm 0.4$	$54.4 \pm 0.7$ <sup>g</sup>	$3.811 \pm 0.015$	p <sub>0</sub>
6.04	$\frac{1}{2}^-$	$7.8 \pm 0.2$	$10.6 \pm 0.2$	$4.545 \pm 0.018$	p <sub>0</sub>
8.08	$\frac{3}{2}^-$	$7.3 \pm 0.9$	$6.83 \pm 0.11$	$3.93 \pm 0.06$	p <sub>0</sub> , p <sub>1</sub> , $\alpha_0$
8.2	$\frac{3}{2}^-$	$1.7 \pm 0.3$	$2.08 \pm 0.08$ <sup>g</sup>	$4.51 \pm 0.09$	p <sub>0</sub>
8.43	$\frac{1}{2}^-$	$4.0 \pm 0.9$	$6.51 \pm 0.26$	$4.05 \pm 0.10$	p <sub>0</sub> , p <sub>1</sub> , p <sub>3</sub> , $\alpha_0$
9.4 <sup>h</sup>		$0.6 \pm 0.2$		$4.43^{+0.19}_{-0.13}$	p <sub>0</sub> , p <sub>1</sub> /p <sub>2</sub> , $\alpha_0$
10.0 <sup>h</sup>		$0.7 \pm 0.3$		$4.05^{+0.26}_{-0.16}$	p <sub>0</sub> , p <sub>4</sub> , $\alpha_0$
10.66 <sup>h</sup>		$0.007 \pm 0.004$		$5.7^{+0.4}_{-0.2}$	p <sub>0</sub> , $\alpha_0$
10.9	$\frac{1}{2}^-$	$0.016 \pm 0.006$		$5.14^{+0.22}_{-0.17}$	p <sub>0</sub> , $\alpha_0$
11.193	$\frac{1}{2}^-$	$0.64 \pm 0.14$	$0.71^{+0.1}_{-0.05}$	$3.31 \pm 0.11$	p <sub>0</sub> , p <sub>1</sub> , p <sub>2</sub> , p <sub>4</sub> , $\alpha_0$ , $\alpha_1$
12.23		$0.001 \pm 0.0006$		$4.98^{+0.41}_{-0.23}$	p <sub>0</sub>

<sup>a</sup> (1988BO39). See also Table 17.21 in (1986AJ04).

<sup>b</sup> (1971HA05).

<sup>c</sup> We are grateful to Dr. M. Martin for providing these  $\log ft$  values calculated for the branchings measured in (1988BO39).

<sup>d</sup> Proton decay to states  $^{16}\text{O}^*(0.0, 6.05, 6.13, 6.92, 7.16)$  are indicated by p<sub>0</sub>, p<sub>1</sub>, p<sub>2</sub>, p<sub>3</sub>, p<sub>4</sub>, respectively. Alpha decay to  $^{13}\text{N}^*(0.0, 2.36)$  are indicated by  $\alpha_0$ ,  $\alpha_1$  respectively.

<sup>e</sup> Based on assumption that  $\log ft$  values are the same as for the  $^{17}\text{N}$  mirror decays.

<sup>f</sup> From  $^{17}\text{N}$   $\beta^-$  decay.

<sup>g</sup> Obtained by (1988BO39) from addition of several of the peaks in (1971HA05).

<sup>h</sup> New levels observed by (1988BO39) with measured energies,  $E_x = 9.450 \pm 0.050, 10.030 \pm 0.060, 10.660 \pm 0.020$  MeV and widths  $\Gamma = 200 \pm 40, 170 \pm 40, 90 \pm 60$  keV, respectively.