

Table 17.23 from (1971AJ02): Decay of  $^{17}\text{Ne}$  †

Decay to $^{17}\text{F}^*$ (MeV)	$J^\pi$	Decay <sup>a</sup> (%)		log $ft$ <sup>b</sup> (1969HA2B)	Decay to $^{16}\text{O}^*$ (MeV)	$J^\pi$	Decay (%) (1969HA2B)
		(1967ES02)	(1969HA2B)				
0	$\frac{5}{2}^+$	0.2 <sup>c</sup>		7.3 <sup>c</sup>			
0.50	$\frac{1}{2}^+$	0.6 <sup>c</sup>		6.8 <sup>c</sup>			
3.11	$\frac{1}{2}^-$	< 1.0	0.49	$6.50 \pm 0.07$	0	$0^+$	100
4.32 <sup>e</sup>		$2.0 \pm 0.5$					
4.70	$\frac{3}{2}^-$	$19.2 \pm 1.0$	16.5	$4.59 \pm 0.02$	0	$0^+$	100
5.52	$\frac{3}{2}^-$	$56.2 \pm 1.8$	54.9	$3.86 \pm 0.01$	0	$0^+$	100
6.04	$\frac{1}{2}^-$	$12.4 \pm 0.7$	10.8	$4.44 \pm 0.02$	0	$0^+$	100
6.43 <sup>e</sup>		$0.9 \pm 0.3$	0.36	$5.82 \pm 0.10$	0	$0^+$	100
6.70	$\frac{3}{2}^-$	$0.4 \pm 0.2$					
7.03	$\frac{3}{2}^-$	$\leq 0.5$					
7.36 → 7.48		$\leq 0.7$					
7.75	$\frac{1}{2}^+$		0.18	$5.70 \pm 0.20$	0	$0^+$	
8.01	$\frac{5}{2}^+$ }	$4.5 \pm 0.4$	6.9	$4.00 \pm 0.01$	0	$0^+$	
8.07					6.05	$0^+$	
8.39	}	$0.8 \pm 0.1$	6.6	$3.85 \pm 0.03$	0	$0^+$	
8.42					6.05	$0^+$	
8.85			1.9	$4.20 \pm 0.03$	0	$0^+$	
11.20 <sup>d</sup>	$\frac{1}{2}^-; T = \frac{3}{2}$	$0.04 \pm 0.01$	0.61	$3.35 \pm 0.10$	6.05	$0^+$	
					0	$0^+$	$12 \pm 4$
					6.05	$0^+$	$26 \pm 8$
					6.92	$2^+$	$28 \pm 13$
					7.12	$1^-$	$34 \pm 14$

† Note added in proof: For latest results, see (1971HA05).

<sup>a</sup> See also (1964MC16, 1965HA20, 1965MA16).

<sup>b</sup> Based on  $\tau_{1/2} = 109 \pm 3$  msec.

<sup>c</sup> From mirror log  $ft$  values (1967ES02).

<sup>d</sup> No decay was observed to  $^{16}\text{O}^*(6.13) [3^-]$  nor to  $^{13}\text{N} (0)$  [by  $\alpha$ -emission]: upper limit is 10% of the observed proton decays (1969HA2B).

<sup>e</sup> Proposed on the basis of the work of (1967ES02).