Table 17.27 from (1993TI07): β^+ decay of ^{17}Ne [a]

Decay to ^{17}F* (MeV)	J^π	Total branching ratio (%)		log ft [c]	Decay branches [d]
		Ref. [a]	Ref. [b]		
0.0	$\frac{5}{2}^+$	0.55 ± 0.17 [e]		$9.56^{1u\ +0.16}_{-0.12}$ [f]	
0.495	$\frac{1}{2}^+$	0.61 ± 0.10 [e]		$6.80^{+0.08}_{-0.06}$ [f]	
3.10	$\frac{1}{2}^-$	$0.10^{+0.03}_{-0.01}$	0.48 ± 0.07	$7.12^{+0.05}_{-0.11}$	p_0
4.65	$\frac{3}{2}^-$	16.54 ± 0.14	16.2 ± 0.7	4.57 ± 0.05	p_0
5.49	$\frac{3}{2}^-$	59.16 ± 0.4	54.4 ± 0.7 [g]	3.811 ± 0.015	p_0
6.04	$\frac{1}{2}^-$	7.8 ± 0.2	10.6 ± 0.2	4.545 ± 0.018	p_0
8.08	$\frac{3}{2}^-$	7.3 ± 0.9	6.83 ± 0.11	3.93 ± 0.06	p_0, p_1, α_0
8.2	$\frac{3}{2}^-$	1.7 ± 0.3	2.08 ± 0.08 [g]	4.51 ± 0.09	p_0
8.43	$\frac{1}{2}^-$	4.0 ± 0.9	6.51 ± 0.26	4.05 ± 0.10	p_0, p_1, p_3, α_0
9.4 [h]		0.6 ± 0.2		$4.43^{+0.19}_{-0.13}$	p_0, p_1/p_2, α_0
10.0 [h]		0.7 ± 0.3		$4.05^{+0.26}_{-0.16}$	p_0, p_4, α_0
10.66 [h]		0.007 ± 0.004		$5.7^{+0.4}_{-0.2}$	p_0, α_0
10.9	$\frac{1}{2}^-$	0.016 ± 0.006		$5.14^{+0.22}_{-0.17}$	p_0, α_0
11.193	$\frac{1}{2}^-$	0.64 ± 0.14	$0.71^{+0.1}_{-0.05}$	3.31 ± 0.11	p_0, p_1, p_2, p_4, α_0, α_1
12.23		0.001 ± 0.0006		$4.98^{+0.41}_{-0.23}$	p_0

[a] (1988BO39). See also Table 17.21 in (1986AJ04).

[b] (1971HA05).

[c] We are grateful to Dr. M. Martin for providing these log ft values calculated for the branchings measured in (1988BO39).

[d] Proton decay to states ^{16}O*(0.0, 6.05, 6.13, 6.92, 7.16) are indicated by p_0, p_1, p_2, p_3, p_4, respectively. Alpha decay to ^{13}N*(0.0, 2.36) are indicated by α_0, α_1 respectively.

[e] Based on assumption that log ft values are the same as for the ^{17}N mirror decays.

[f] From ^{17}N β^- decay.

[g] Obtained by (1988BO39) from addition of several of the peaks in (1971HA05).

[h] 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.