

Table 17.2 from (1982AJ01): Beta decay of ^{17}N

Decay to $^{17}\text{O}^*$ (keV)	J^π	Branch (%)	$\log ft$
0	$\frac{5}{2}^+$	1.6 ± 0.5^c	$7.29 \pm 0.11^{c,f}$
871	$\frac{1}{2}^+$	3.0 ± 0.5^c	6.80 ± 0.07^c
3055.2 ± 0.3^a	$\frac{1}{2}^-$	0.34 ± 0.06^c	7.08 ± 0.08^c
3841	$\frac{5}{2}^-$	$< 7 \times 10^{-3}^c$	$> 8.5^c$
4551.2 ± 1.3^b	$\frac{3}{2}^-$	38.0 ± 1.3^d	4.41 ± 0.02^g
5083 ± 21^b	$\frac{3}{2}^+$	0.6 ± 0.4^e	5.9 ± 0.5^e
$5389.0 \pm 1.2^{b,h}$	$\frac{3}{2}^-$	50.1 ± 1.3^d	3.86 ± 0.02^g
5738	$(\frac{1}{2}^+)$	$< 0.23^e$	$> 6.0^e$
5868	$\frac{3}{2}^+$	$< 0.15^e$	$> 6.0^e$
$5951.8 \pm 1.9^{b,h}$	$\frac{1}{2}^-$	6.9 ± 0.5^d	4.35 ± 0.03^g
6356	$\frac{1}{2}^+$	$< 0.08^e$	$> 6.0^e$

^a (1976AL02): direct ground state decay $< 1.5\%$.

^b (1976OH05): from neutron groups. [The E_x have been recalculated here on the basis of 4144.3 ± 0.8 keV for E_b for a neutron in ^{17}O .] Γ_n for $^{17}\text{O}^*(4.55, 5.08, 5.38, 5.94)$ are , respectively, 54.8 ± 0.4 , 113 ± 55 , 63.2 ± 1.1 and 60.5 ± 3.2 keV (1976OH05). See also Table 17.12.

^c (1976AL02). See also (1977AJ02).

^d Calculated from the mean of the values from (1973PO11, 1976AL02, 1976OH05), renormalized here, together with the new branch to $^{17}\text{O}^*(5.08)$, to lead to a total neutron emission probability of $95 \pm 1\%$ [100% less the branches to $^{17}\text{O}^*(0, 0.87, 3.06)$].

^e (1976OH05).

^f $\log f_1 t = 9.56 \pm 0.13$ (1971TO08).

^g Calculated using the tables of (1971GO40).

^h See, however, Tables 17.7 and 17.12.