

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

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

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

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

<sup>c</sup> (1976AL02). See also (1977AJ02).

<sup>d</sup> 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  $^{17}\text{O}^*(0, 0.87, 3.06)$ ].

<sup>e</sup> (1976OH05).

<sup>f</sup>  $\log f_1 t = 9.56 \pm 0.13$  (1971TO08).

<sup>g</sup> Calculated using the tables of (1971GO40).

<sup>h</sup> See, however, Tables 17.7 and 17.12.