

Table 17.5 from (1993TI07): Beta decay of  $^{17}\text{N}$  <sup>a</sup>

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

<sup>a</sup> See [Table 17.3 in \(1986AJ04\)](#) and [Table 17.2 in \(1982AJ01\)](#) for references and additional information.

<sup>b</sup> Direct ground state decay  $< 1.5\%$ .

<sup>c</sup> From neutron groups. [The  $E_x$  were calculated 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. See also [Table 17.17](#).

<sup>d</sup> See, however, [Tables 17.17](#) and [17.10](#).

<sup>e</sup> Calculated 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>f</sup>  $\log f_1 t = 9.56 \pm 0.13$  ([1971TO08](#)).