

Table 17.16 from (1993TI07): Decay properties of the lowest $T = \frac{3}{2}$ states in $A = 17$ ^a

	$^{17}\text{O}^*(11.0787 \pm 0.0008)$ ^b		$^{17}\text{F}^*(11.1928 \pm 0.0021)$ ^c	
J^π :	$\frac{1}{2}^-$		$\frac{1}{2}^-$	
$\Gamma_{\text{c.m.}}$ (keV):	2.4 ± 0.3 ^b		0.18 ± 0.03 ^d	
p- or n-decay to states in	Branching ratio (%)	Partial Widths	Branching ratio (%) ^e	Partial Widths
$^{16}\text{O}^*$ J^π				
0 0^+	81 ± 6	1.88 ± 0.12 keV	10.7 ± 0.6	19 ± 3 eV ^f
6.05 0^+			11 ± 3	20 ± 7 eV ^e
6.13 3^-	5 ± 2	0.12 ± 0.05 keV	25 ± 2	45 ± 9 eV ^e
6.92 2^+			< 4	< 8 eV ^e
7.12 1^-			18 ± 3	32 ± 8 eV ^e
$\theta^2(\text{g.s.})/\theta^2(6.13)$:		0.31 ± 0.14 ^g		0.065 ± 0.019 ^g
α -decay to ^{13}C or ^{13}N :	7 ± 1 ^h	$\Gamma_{\alpha_0} = 0.34 \pm 0.09$ keV ⁱ	$^{13}\text{N}^*(0)$: 1.1 ± 0.5	2.1 ± 1 eV ^e
			$^{13}\text{N}^*(2.36)$: 29 ± 9	52 ± 19 eV ^e
γ -decay:		$\Gamma_{\gamma_1} = 10 \pm 3$ eV ⁱ		$\Gamma_{\gamma_1} = 6.0 \pm 2.5$ eV ^j

^a See also Table 2 in (1973AD02) and reaction 11, and see Table 17.11 in (1986AJ04).

^b (1981HI01) [see for IMME parameters for six $T = \frac{3}{2}$ states].

^c (1971HA05, 1973AD02, 1976HI09, 1988BO39) and see references in Table 17.11 in (1982AJ01).

^d Calculated from direct measurement of $\Gamma_{p_0} = 19 \pm 3$ eV (1976HI09) and weighted mean of $\Gamma_{p_0}/\Gamma = 0.104 \pm 0.006$ obtained from measurements of (1971HA05, 1973AD02, 1988BO39).

^e Branching ratios measured by (1988BO39). Partial widths obtained using total width of 180 ± 30 eV and these branching ratios.

^f (1976HI09).

^g (1973AD02).

^h (1976MC11).

ⁱ Using $\Gamma_{\alpha_0}\Gamma_{\gamma_1}/\Gamma_{\text{tot}} = 1.46 \pm 0.13$ eV and $\Gamma_{\alpha_0}\Gamma_{n_0}/\Gamma_{\text{tot}} = 0.27$ keV $\pm 20\%$ [see footnote ^f] in Table 17.11 of (1986AJ04)] and the Γ_{n_0} and Γ_{tot} values shown above, these values are calculated for Γ_{α_0} and Γ_{γ_1} .

^j (1975HA06).