

Table 17.18 from (1986AJ04): Resonances in $^{16}\text{O}(p, \gamma)^{17}\text{F}$ ^a

E_p (MeV \pm keV)	Resonant in ^b	Γ_γ (eV)	Γ (keV)	E_x (MeV)	$J^\pi; T$
2.66	γ_1	$(12 \pm 2) \times 10^{-3}$		3.11	$\frac{1}{2}^-; \frac{1}{2}$
3.47	γ_0	0.11 ± 0.02	< 1.5	3.86	$\frac{5}{2}^-; \frac{1}{2}$
11.275 ± 6	γ_1	6.0 ± 2.5 ^c	≤ 1.6	11.204	$\frac{1}{2}^-; \frac{3}{2}$
12.707 ± 1	$\gamma_0 + \gamma_1$	11.3 ± 3.4 ^c	1.8 ± 0.5	12.550	$\frac{3}{2}^-; \frac{3}{2}$
13.255 ± 6	$\gamma_0 + \gamma_1$	2.8 ± 1.8 ^c	5.0 ± 1.5	13.065	$\frac{5}{2}^-; \frac{3}{2}$
14.435 ± 10	γ_0	72 ± 37 ^e	41 ± 10	14.174	$\frac{3}{2}^-; \frac{3}{2}$
14.583 ± 6 ^d	$\gamma_0 + \gamma_1$	13.4 ± 7.0 ^c	28 ± 5	14.313	$\frac{7}{2}^-; \frac{3}{2}$

^a See also [Table 17.19](#) and [Table 17.20 in \(1982AJ01\)](#).

^b γ_0 and γ_1 correspond to transitions to $^{17}\text{F}^*(0, 0.50)$, respectively.

^c These Γ_γ are based on J^π and Γ_{p0}/Γ determinations quoted by ([1975HA06](#)). The $B(E1)$ values for these four states are 4.7 ± 2.0 , 5.4 ± 1.6 , 1.2 ± 0.8 and $4.4 \pm 2.3[\times 10^{-3}]e^2 \cdot \text{fm}^2$.

^d See the text of [reaction 6](#) for discussion of the observed pigmy and giant resonances ([1975HA06](#)).

^e See also [Table 17.18 in \(1977AJ02\)](#).