

Table 12.23 from (1968AJ02): ^{12}C levels from $^{12}\text{C}(\text{p}, \text{p}')^{12}\text{C}^*$

$^{12}\text{C}^*$ a,b (MeV \pm keV)	Multipolarity c	Γ a (keV)
4.43 \pm 100 d,e	E2	
7.65 \pm 100		
9.7 \pm 150	E3	
10.6 \pm 400		
11.1 \pm 400		
12.7 \pm 200	(M1)	h
13.9 \pm 100 f		
15.15 \pm 100	M1	h
16.1 \pm 200		
18.2 \pm 300		500 – 800
19.3 \pm 200	M2 g	500 – 800
(20.4 \pm 400)		500 – 800
21.4 \pm 300		500 – 800
22.1 \pm 300	E1	500 – 800
23.4 \pm 400		500 – 800

a (1965HA17: 185 MeV).

b (1963DE35, 1964ST15). See also (1956ST65, 1959AJ76, 1960GA10, 1960LA03, 1962NO08, 1963ME04, 1966EM01).

c (1964JA03).

d $E_x = 4437 \pm 7$ keV (1962BR10).

e $E_x = 4440.0 \pm 0.5$ keV (1967KO14).

f (1967JO1F): $J^\pi = (4^+)$.

g See also (1960RI1C).

h (1962WA31): $\Gamma_\gamma/\Gamma = 0.027 \pm 0.007$ for $^{12}\text{C}^*(12.7)$, 1.15 ± 0.3 for $^{12}\text{C}^*(15.1)$.