

Table 13.21 from (1981AJ01): Resonances in $^{12}\text{C}(p, \gamma)^{13}\text{N}$ ^a

E_p (MeV \pm keV)	Γ_{cm} (keV)	Γ_{γ_0} (eV)	$^{13}\text{N}^*$ (MeV)	Res. in yield of	J^π	Refs.
0.4568 \pm 0.5	33.7 \pm 0.9 ^b	0.45 \pm 0.05 ^c	2.3648 \pm 0.0011	γ_0	$\frac{1}{2}^+$	^a
1.699 \pm 2	62 \pm 4	0.64 ^j	3.511	γ_0	$\frac{3}{2}^-$	^a , (1974RO29)
9.01 \pm 150	\approx 280	^d	10.25	γ_0	$(\frac{1}{2}^+)$	(1976BE28)
10.62 \pm 120	200 \pm 50	\approx 4.2 ^e	11.74	γ_0	$\frac{3}{2}^+$	(1973ME12)
12.5 \pm 200	6500	\geq 1100	13.5	γ_0	$\frac{3}{2}^+$	(1973ME12)
13.12 \pm 90	160 \pm 20	3.7 \pm 1.0 ^f	14.04	γ_0	$\frac{3}{2}^+$	(1973ME12)
14.2	[see Table 13.7]		15.0	γ_0, γ_{2+3}	$\frac{3}{2}^-; T = \frac{3}{2}$	(1968DI04, 1975MA21, 1977MA16)
14.5 \pm 200 ^g	350 \pm 140	\geq 0.5	15.3	γ_1	$(\frac{3}{2}^+)$	(1973ME12)
16.9			17.5	γ_0		(1976BE28)
20 ^h			20	γ_1, γ_{2+3}		(1976BE28)
20.5 ⁱ	\approx 3700		20.8	γ_0		(1963FI07, 1976BE28, 1976FE1C)
23			23	γ_0		(1976BE28)
24.5			24.5	γ_{2+3}		(1963FI07)
32.5	broad		31.9	γ_0, γ_{2+3}		(1963FI07, 1976FE1C)

^a See also Table 13.26 in (1976AJ04) and (1980BA54; theor.).

^b Weighted mean of values from (1968RI16, 1974BL06).

^c (1968RI16).

^d See (1973ME12).

^e A value of 0.30 ± 0.05 is assumed for Γ_{p_0}/Γ : see Table 13.22.

^f A value of 126 keV is taken for Γ_{p_0} (1969LE18).

^g This peak may be due to an unresolved doublet.

^h Giant resonance for γ_1 .

ⁱ Main dipole strength is concentrated in this peak (1976BE28).

^j Recalculated on basis of total $\Gamma_{\text{lab}} = 67 \pm 4$ keV. I am indebted to Prof. F.C. Barker for his comments [see (1980BA54)].