Table 15.12 from (1986AJ04): Resonances in $^{14}C + p$ [a]

E_p (MeV ± keV)	$\Gamma_{c.m.}$ (keV)	Γ_n (keV)	Γ_p (keV)	Γ_α (keV)	Γ_γ (eV)	J^π	E_x (MeV ± keV)
0.261 ± 0.6	< 0.5		$(0.08 \pm 0.01) \times 10^{-6}$		> 21 meV	$\frac{5}{2}^-$	10.4497 ± 0.3 [d]
0.352 ± 1					$(3.4 \pm 0.4) \times 10^{-2}$ [b]	$\frac{5}{2}^+$	10.5333 ± 0.5 [d]
0.519 ± 1			$(0.49 \pm 0.10) \times 10^{-6}$		> 40 meV	$\frac{9}{2}^+$	10.6932 ± 0.3 [d]
0.527 ± 1			0.2		0.37 ± 0.07	$\frac{3}{2}^-$	10.7019 ± 0.3 [d]
0.634 ± 1			$(0.22 \pm 0.10) \times 10^{-3}$		0.27 ± 0.14	$\frac{3}{2}^{(+)}$	10.804 ± 2 [d]
1.162 ± 2	7.9 ± 3	2.3	5.6	< 0.3	0.29 [c]	$\frac{1}{2}^-$	11.291
1.3188 ± 0.5	41.4 ± 1.1	34.6 ± 0.9	6.8 ± 0.5	< 0.3	4.2 ± 0.7 [c]	$\frac{1}{2}^+$	11.4376
1.509 ± 4	404.9 ± 6.3	4.0 ± 0.2	400.9 ± 6.3	< 0.3	19.2 ± 0.4 [c]	$\frac{1}{2}^+; T = \frac{3}{2}$	11.615
1.688 ± 3	37	36.5	0.5	< 0.3		$\frac{3}{2}^+$	11.782
1.788 ± 3	24.5	24.5	0.03	< 0.3		$\frac{3}{2}^-, (\frac{5}{2}^-)$	11.875
1.884 ± 3	21.5	21.2	0.3	< 0.3		$\frac{1}{2}^-$	11.965
2.025 ± 4	14 ± 5	12.0	1.7	0.6		$\frac{5}{2}^+$	12.096
2.077 ± 3	47 ± 7	30.2	16.6	2.2		$\frac{3}{2}^-$	12.145
2.272 ± 4	22	21.7	0.3	< 0.3		$\frac{5}{2}^{(+)}$	12.327
2.450 ± 4	44 ± 3	28	0.3	5.5		$\frac{5}{2}^+; T = \frac{1}{2}$	12.493
2.482 ± 8	58 ± 4				4.6 ± 0.7	$\frac{5}{2}^+; T = \frac{3}{2}$	12.523
2.908 ± 4	70	25	9.0	15		$\frac{3}{2}^-$	12.920
2.93 ± 10	81	n.r.	0.5	80		$\frac{5}{2}^+$	12.940
3.19	5.5	r.					13.18
3.38 ± 10	24	6	6.0	12		$\frac{3}{2}^-$	13.360
3.421 ± 10	57	20.6	35	5.5	3.0 ± 0.9	$\frac{3}{2}^+$	13.390
3.57 ± 10	124	≈ 75	8.0	≈ 40		$\frac{3}{2}^-$	13.537

Table 15.12 from (1986AJ04): Resonances in $^{14}C + p$ [a] (continued)

E_p (MeV ± keV)	$\Gamma_{c.m.}$ (keV)	Γ_n (keV)	Γ_p (keV)	Γ_α (keV)	Γ_γ (eV)	J^π	E_x (MeV ± keV)
3.65 ± 10	88	≈ 16	12.0	≈ 60		$\frac{1}{2}^+$	13.612
3.71		r.					13.67
4.0	930		500		r.	$\frac{1}{2}^+$	13.9
4.1 ± 100	98 ± 10		25	r.		$\frac{5}{2}^+$	14.0
4.2 ± 100				r.		$(\frac{3}{2})$	14.1
4.6 ± 150	74 ± 7		20	r.	(r.)	$\frac{3}{2}^-$	14.5
4.8	149 ± 18		39	r.	(r.)	$\frac{3}{2}^+$	14.7
4.83	750				r.		14.71
5.08	158 ± 19		20		r.	$\frac{3}{2}^+$	14.95
5.16 ± 130	28 ± 3		9.0	r.		$\frac{3}{2}^+$	15.0
5.54 ± 130	39 ± 5		12	r.	(r.)	$\frac{3}{2}^-$	15.4
5.62	750				r.		15.45
6.4 ± 150	130 ± 14		19	r.		$\frac{3}{2}^+$	16.2
6.70	560				r.		16.46
6.925	90 ± 10			r.	r.	$(\frac{3}{2}^+; \frac{1}{2})$	16.67
7.18 ± 180	110 ± 50			r.		$\frac{5}{2}$	16.9
≈ 9					r.	$\frac{1}{2}^+; \frac{1}{2}$	19
10.0	sharp		(1000)		r.	$\frac{3}{2}^+; (T = \frac{3}{2})$	19.5 [e]
11.0	sharp				r.	$\frac{3}{2}^+$	20.5
12.35					r.		21.72
13.65					r.		22.94
16.4					r.	$(T = \frac{3}{2})$	25.5 [e]

Table 15.12 from (1986AJ04): Resonances in $^{14}C + p$ [a] (continued)

E_p (MeV $\pm$ keV)	$\Gamma_{c.m.}$ (keV)	Γ_n (keV)	Γ_p (keV)	Γ_α (keV)	Γ_γ (eV)	J^π	E_x (MeV $\pm$ keV)
≈ 29					r.		≈ 37

r. = resonant.

n.r. = non-resonant.

[a] See Tables 15.5 in (1959AJ76), 15.11 in (1970AJ04) and 15.12 in (1981AJ01) for references and additional comments.

[b] $\omega\gamma$ (in eV).

[c] Γ_{γ_0}. I am indebted to P.M. Endt for this correction.

[d] E_x measured directly: see (1981AJ01).

[e] Analog not observed in $^{14}N(p, \gamma)^{15}O$.