

Table 15.11 from (1970AJ04): Resonances in $^{14}\text{C} + \text{p}$ ^a

E_p (MeV \pm keV)	Γ (keV)	Γ_n (keV)	Γ_p (keV)	Γ_γ (eV)	J^π ^d	E_x (MeV)	Refs.
0.261 ± 1 ^a						10.451	(1959HE1D, 1968SI1F, 1969SI04)
0.352 ± 1 ^a				$(3.4 \pm 0.4) \times 10^{-2}$ ^c	$\frac{5}{2}^-$	10.536	(1959HE1D, 1960HE13, 1968SI1F, 1969SI04)
0.527 ± 1 ^a			0.2	1.78 ± 0.3 ^c	$\frac{3}{2}^+$	10.700	(1959HE1D, 1968SI1F, 1969SI04)
0.634 ± 1 ^a				0.23 ± 0.04 ^c	$\frac{3}{2}^+$	10.800	(1959HE1D, 1968SI1F, 1969SI04)
1.162 ± 2	7.9 ± 3	2.3	5.6	0.29	$\frac{1}{2}^-$	11.292	(1951RO16, 1955BA44, 1956SA06, 1968HA27)
1.294 ± 4	34 ± 4	22.6	11.1			^e	(1968HA27)
1.3188 ± 0.5	41.4 ± 1.1	34.6 ± 0.9	6.8 ± 0.5	4.2 ± 0.7	$\frac{1}{2}^+$	11.438	(1951RO16, 1955BA44, 1956SA06, 1968HA27)
1.472 ± 8	418 ± 16	3.7	414.6			^e	(1968HA27)
1.509 ± 4	404.9 ± 6.3	4.0 ± 0.2	400.9 ± 6.3	19.2 ± 0.4	$\frac{1}{2}^+; T = \frac{3}{2}$	11.615	(1959FE1C, 1968HE12)
1.688 ± 3	37	36.5	0.5		$\frac{3}{2}^+$	11.764	(1951RO16, 1955BA44, 1956SA06)
1.788 ± 3	24.5	24.5	0.03		$\frac{3}{2}^-, (\frac{5}{2}^-)$	11.876	(1951RO16, 1955BA44, 1956SA06)
1.884 ± 3	21.5	21.2	0.3		$\frac{1}{2}^-$	11.965	(1951RO16, 1955BA44, 1956SA06)
2.025 ± 4 ^b	14 ± 5	12.0	1.7		$\frac{5}{2}^+$	12.097	(1951RO16, 1955BA44, 1956SA06, 1960BA34, 1968HA27)
2.077 ± 3 ^b	47 ± 7	30.2	16.6		$\frac{3}{2}^-$	12.145	(1951RO16, 1955BA44, 1956SA06, 1960BA34, 1968HA27, 1968HE12)
2.272 ± 4	22	21.7	0.3		$\frac{5}{2}^+$ (+)	12.327	(1951RO16, 1955BA44, 1956SA06, 1960BA34, 1968HA27)
2.450 ± 4 ^b	40	28	0.3		$\frac{5}{2}^+; T = \frac{1}{2}$	12.493	(1951RO16, 1956SA06, 1960BA34)
2.48 ± 10	80	0	80		$\frac{5}{2}^+; T = \frac{3}{2}$	12.52	(1968HA27, 1968HE12)
2.908 ± 4	75				$\frac{3}{2}^-$	12.921	(1956SA06, 1960BA34, 1961HA12, 1962HA20)
3.19	5.5					13.19	(1960BA34, 1961HA12, 1962HA20)
3.38	22					13.36	(1960BA34, 1961HA12, 1962HA20)

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E_p (MeV \pm keV)	Γ (keV)	Γ_n (keV)	Γ_p (keV)	Γ_γ (eV)	J^π ^d	E_x (MeV)	Refs.
3.42	61					13.40	(1960BA34, 1961HA12, 1962HA20)
3.55						(13.52)	(1962HA20)
3.63	12					13.60	(1960BA34, 1961HA12, 1962HA20)
3.71						13.67	(1961HA12, 1962HA20)
3.89	33					13.84	(1960BA34, 1961HA12, 1962HA20)
4.19	105					14.12	(1960BA34, 1961HA12, 1962HA20)
4.24	25					14.17	(1960BA34, 1961HA12, 1962HA20)
4.61	130					14.51	(1960BA34, 1961HA12, 1962HA20)
4.93	99					14.81	(1960BA34, 1961HA12)
5.01						14.88	(1961HA12, 1962HA20)
5.14						15.00	(1961HA12, 1962HA20)
5.26						15.11	(1961HA12, 1962HA20)

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^a See also (1959HE1B) and Table 15.5 in (1959AJ76).

^b The Γ_α are < 0.3 keV for $E_{\text{res}} = 1.16$ to 2.5 MeV, except for the resonances at $E_p = 2.03, 2.08$ and 2.45 MeV for which they are, respectively, 0.6, 2.2 and 5.5 keV (1956SA06).

^c ω_γ (in eV) (1968SI1F, 1969SI04).

^d See also (1959AJ76).

^e These states correspond to the levels listed in the line below: a different boundary condition was used to obtain E_{res} .