

Table 15.6 from (1959AJ76): Resonances in $^{14}\text{C}(p, \gamma_0)^{15}\text{N}$ and $^{14}\text{C}(p, n)^{14}\text{N}$

E_p^a (keV)	Yields ^b		Γ^b (keV)	Γ_n^b (keV)	Γ_p^b (keV)	Γ_α^a (keV)	$\Gamma_{\gamma_0}^b$ (eV)	$J\pi^b$	l_n	$\theta_n^2{}^c$	l_p	$\theta_p^2{}^c$	E_x (MeV)
	$10^{-11} \gamma/p$	$10^{-8} n/p$											
361	0.01						(< 0.004) ^h						10.551
537	5.7						(0.12) ^h	$(\frac{3}{2}^-)$ ^h					10.715
646	0.49						(0.010) ^h	$(\frac{3}{2}^-)$					10.817
1163 ± 2	3.1	20	12	1.6	10.4	0	0.29	$\frac{1}{2}^-$ ^e	1	0.002	1	0.04	11.299
1312 ± 3	7.9	120	43 ± 5 ^d	24.4	15.0	0	2.4	$\frac{1}{2}^+$ ^f	0	0.01	0	0.007	11.438
1500	49	88	520 ^d	18.4	506		26.3	$\frac{1}{2}^+$ ^g	0	0.001	0	1.0	11.61
1668 ± 3		17	37	36.5	0.5	0		$\frac{3}{2}^+$	0	0.01	2	0.004	11.771
1788 ± 3		1.5	24.5	24.5	0.03	0.05		$\frac{3}{2}^-, (\frac{5}{2}^-)$	1	0.01	3	0.003	11.883
1884 ± 3		5.6	21.5	21.2	0.3	0.26		$\frac{1}{2}^-$	1	0.009	1	0.0004	11.972
2025 ± 4		40	18	17.2	0.8	0.6		$\frac{5}{2}(-)$ ^e	1	0.007	3	0.05	12.104
2079 ± 4		290	53	38	15	2.2		$\frac{3}{2}(+)$ ^e	0	0.008	2	0.06	12.154
2272 ± 4		10	22	21.7	0.3	0.1		$\frac{5}{2}(+)$	2	0.007	2	0.0009	12.335
2450 ± 4			34 ± 4	28	0.3	5.5		$(\frac{3}{2})$					12.501
2908 ± 4			71 ± 5										12.928

^a (1956SA06).

^b (1955BA44): see comparable values in (1951RO16, 1956SA06).

^c θ^2 as defined by (1955BA44).

^d (1956FE1C).

^e See also (1953KA1A).

^f Assignment from $^{14}\text{N}(n, n)^{14}\text{N}$: see also (1953KA1A).

^g $T = \frac{3}{2}$.

^h Compare Table 15.5.