

Table 15.14 from (1970AJ04): Resonances in $^{14}\text{N} + \text{n}^a$

E_{res} (MeV \pm keV)	Γ_{lab} (keV)	Γ_{n} (keV)	Γ_{p} (keV)	Γ_{α} (keV)	J^{π}	$^{15}\text{N}^*$ (MeV)	Refs.
0.430 ± 5	3.5	< 3	< 0.01		$\geq \frac{3}{2} \frac{3}{2} \frac{3}{2}$	11.236	(1951JO23, 1952HI12)
0.4926 ± 0.65	7.5	< 3	< 10		$\frac{1}{2} \frac{1}{2} \frac{1}{2}^-$	11.2943	(1950JO57, 1952HI12, 1963EN01)
0.639 ± 5	43	34	9		$\frac{1}{2} \frac{1}{2} \frac{1}{2}^+$	11.431	(1950JO57, 1951JO23, 1952HI12)
0.998 ± 5	46	45	0.8		$\frac{3}{2} \frac{3}{2} \frac{3}{2}^+$	11.766	(1950JO57, 1951JO23, 1952HI12)
1.120 ± 6	19	19	0.20		$\frac{3}{2} \frac{3}{2} \frac{3}{2}^-$	11.880	(1951JO23, 1952HI12, 1955FO27)
1.188 ± 6	≤ 3.2	< 2	< 0.1		$\geq \frac{3}{2} \frac{3}{2} \frac{3}{2}$	11.943	(1952HI12)
1.211 ± 7	13	12	0.4		$\frac{1}{2} \frac{1}{2} \frac{1}{2}^-$	11.965	(1952HI12)
1.350 ± 7	21	20	0.9	0.4	$\frac{1}{2} \frac{1}{2} \frac{1}{2}^+$	12.094	(1951JO23, 1952HI12, 1955FO27, 1959GA14)
1.401 ± 8	54	41	11	1.8	$\frac{3}{2} \frac{3}{2} \frac{3}{2}^-$	12.142	(1950JO57, 1951JO23, 1952HI12, 1955FO27, 1959GA14)
1.595 ± 8	22	21	0.2	< 0.1	$\frac{1}{2} \frac{1}{2} \frac{1}{2}^-$	12.323	(1952HI12, 1955FO27, 1959GA14, 1966FO1D, 1966FO1E)
1.779 ± 10	47	37	0.5	9.0	$(\frac{1}{2} \frac{1}{2} \frac{1}{2})^+$	12.494	(1950JO57, 1952HI12, 1955FO27, 1959GA14, 1966FO1E)
2.23	65	39	7.8	18	$\frac{3}{2} \frac{3}{2} \frac{3}{2}^-$	12.92	(1959GA14, 1966FO1D, 1966FO1E, 1966MA2K, 1968JO1F)
2.47	< 3			r		13.14	(1959GA14)
2.52	≈ 7			r		13.19	(1959GA14)
2.71	40			r	$\frac{3}{2} \frac{3}{2} \frac{3}{2}^-$	13.36	(1959GA14)
2.74	95		r		$\frac{1}{2} \frac{1}{2} \frac{1}{2}^+$	13.39	(1959GA14)
2.95	20	16	1.1	3.2	$\frac{1}{2} \frac{1}{2} \frac{1}{2}^+$	13.59	(1959GA14, 1966FO1E, 1966MA2K, 1968JO1F)
3.09	60		r	r		13.72	(1959GA14)
3.21	85		r	r	$\frac{3}{2} \frac{3}{2} \frac{3}{2}^+$	13.83	(1959GA14, 1966FO1E, 1966MA2K, 1968JO1F)
3.51	≈ 20		r	r		14.11	(1959GA14)
3.57	30		r	r	$\frac{3}{2} \frac{3}{2} \frac{3}{2}^+$	14.17	(1959GA14, 1966MA2K, 1968JO1F)
≈ 3.8	≈ 2000	≈ 1000	200	≈ 1000		14.4	(1959GA14)
4.09	50		r	r		14.65	(1959GA14, 1966SC21)
≈ 4.1	≈ 300		r	r		14.7	(1959GA14)
4.38	40			r		14.92	(1959GA14, 1966SC21)
4.60				r		15.13	(1959GA14, 1966SC21)
5.03				r		15.52	(1959GA14, 1966SC21, 1968BO36)
5.60	100			r		16.06	(1959GA14, 1966SC21, 1968BO36)

Table 15.14 from (1970AJ04): Resonances in $^{14}\text{N} + \text{n}$ ^a (continued)

E_{res} (MeV \pm keV)	Γ_{lab} (keV)	Γ_{n} (keV)	Γ_{p} (keV)	Γ_{α} (keV)	J^{π}	$^{15}\text{N}^*$ (MeV)	
5.94				r		16.38	(1959GA14, 1966SC21)
6.16	75			r		16.58	(1959GA14, 1966SC21)
6.26	110	r		r		16.67	(1959GA14, 1959HA13, 1966SC21)
6.55	170	r		r		16.95	(1959GA14, 1959HA13)
6.94				r		17.31	(1959GA14)
	200	r					(1959HA13)
7.16				r		17.51	(1959GA14)
7.34	120			r		17.68	(1959GA14)
7.48	180	r		r		17.81	(1959GA14, 1959HA13)
7.92	170			r		18.22	(1959HA13)
8.00	120			r		18.30	(1959GA14, 1959HA13)

r = resonant channel.

2

^a See also (1959AJ76).