

Table 15.8 from (1959AJ76): Resonances in $^{14}\text{N} + n$

E_n (keV)	Γ_{lab} (keV)	Γ_n (keV)	Γ_p (keV)	Γ_α (keV)	l_n	J^π	θ_n^2 ^a (%)	θ_p^2 ^a (%)	θ_α^2 ^a (%)	$^{15}\text{N}^*$ (MeV)	References ^b
430 ± 5	3.5	< 3	< 0.01		≥ 1	$\geq \frac{3}{2}$				11.243	(1951JO23, 1952HI12)
495 ± 5	7.5	< 3	< 10		(1)	$\frac{1}{2}^-$ ^c	(0.1)	(1.8)		11.301	(1952HI12)
639 ± 5	43	34	9		0	$\frac{1}{2}^+$	0.9	0.4		11.439	(1951JO23, 1952HI12)
998 ± 5	46	45	0.8		0	$\frac{3}{2}^+$	1.0	0.6		11.774	(1951JO23, 1952HI12)
1120 ± 6	19	19	0.20	d	1	$\frac{3}{2}^-$	0.8	0.08		11.887	(1951JO23, 1952HI12, 1955FO27)
1188 ± 6	≤ 3.2	< 2	< 0.1		≥ 1	$\geq \frac{3}{2}$				11.950	(1952HI12)
1211 ± 7	13	12	0.4	d	1	$\frac{1}{2}^-$	0.5	0.2		11.972	(1952HI12)
1350 ± 7	22	21	1.0	d	(2)	$\frac{5}{2}^+$	6	0.7		12.102	(1951JO23, 1952HI12, 1955FO27)
1401 ± 8	54	42	10	2	1	$\frac{3}{2}^-$	1.5	0.7	5	12.150	(1951JO23, 1952HI12, 1955FO27)
1595 ± 8	22	21	0.4	0.2	(1)	$\frac{5}{2}^-$	0.7	3.0		12.331	(1952HI12, 1955FO27)
1779 ± 10	24	18	6	0.2	2	$(\frac{5}{2}^+)$	3.0	0.07	14	12.503	(1952HI12, 1955FO27)
2250		0.48Γ			1	$(\frac{3}{2}^-)$				12.94	(1953ME1B, 1955FO27, 1957HU1D)

^a θ^2 as defined by (1952HI12).

^b See (1958HU18).

^c Assignment by (1956SA06), based on quoted σ_{nn} , $\sigma_{n\alpha}$, σ_{np} .

^d See Table 15.6.