

Table 15.14 from (1959AJ76): Anomalies in $^{14}\text{N}(p, p)^{14}\text{N}$ and $^{14}\text{N}(p, p'\gamma)^{14}\text{N}$

E_p (keV)	Γ (keV)	$\omega\Gamma_\gamma^e$ (eV)	$\theta_p^2^e$ (%)	J^π	E_x (MeV)	References
278.1 ± 0.4	1.5 ± 0.5			$\frac{1}{2}$	7.560	a
1058 ± 3	3 ± 1	0.40	0.29^b	$\frac{3}{2}^+$	8.288	e, g, h
1550 ± 6	34	0.11	1.6^b	$\frac{1}{2}^+$	8.747	e, f, g, h
1740 ± 4	4 ± 1	0.076	0.13^b	$(\leq \frac{5}{2})$	8.924	e, f, g, h
			1.7^c			
1801 ± 5	4 ± 1	0.30	0.28^d	$(\frac{1}{2}^-, \frac{3}{2}^-)$	8.981	e, f, g, h
2320	550			$\frac{1}{2}^+$	9.465	f, i
2350 ± 10					9.494	f, g
2480 ± 10					9.614	f, g
2535 ± 3	< 8				9.666	j
3200 ± 10					10.29	f, k
3400 ± 10					10.47	f
3910 ± 8	82 ± 15			$\geq \frac{3}{2}$	10.949	j, l, m, n
4000 ± 8	< 15				11.033	j, l, m
4800 ± 20	80				11.780	l
4890 ± 10	70				11.864	l, m

^a (1956OV1A, 1957PIZZ).

^b Assuming s-waves.

^c Assuming d-waves.

^d Assuming p-waves.

^e (1957HA03).

^f (1957BO58).

^g (1956FE1D, 1959FE71).

^h (1956TA16).

ⁱ (1958FE05, 1959FE1E, 1959FE71).

^j (1957OL1A).

^k (1956BA1H).

^l (1956BA34): $^{14}\text{N}(p, p'\gamma)^{14}\text{N}$.

^m (1955TH1A).

ⁿ (1958DO60).