

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.