

Table 14.12 from (1981AJ01): Lifetimes of some ^{14}N states ^a

| E_x (MeV) | τ_m (fsec) | Reaction | Refs. |
|-------------------|-----------------------------------|---------------------------------|-----------------------------------|
| 2.31 | 75 ± 19 | $^{13}\text{C}(p, \gamma)$ | (1972RE10) |
| | 105 ± 15 | $^{13}\text{C}(p, \gamma)$ | (1977BI07) |
| | 79 ± 7 | $^{13}\text{C}(p, \gamma)$ | (1980AN1E) |
| | 106 ± 10 | $^{14}\text{N}(\gamma, \gamma)$ | (1975RA22) |
| 3.95 | 92 ± 10 | | adopted value |
| | 8.4 ± 0.4 | $^{13}\text{C}(p, \gamma)$ | (1977BI07) |
| | 5.7 ± 0.7 | $^{13}\text{C}(p, \gamma)$ | (1980AN1E) |
| 4.92 | 8.7 ± 0.9 | $^{14}\text{N}(e, e)$ | see reaction 45 |
| | 8.0 ± 1.0 | | adopted value |
| 5.11 | 7.6 ± 1.4^A | | ^b |
| 5.69 | (6.2 ± 0.4) psec ^c | $^{12}\text{C}(^3\text{He}, p)$ | (1978MO27) |
| 5.83 | $16 \pm 8^{d,A}$ | $^{13}\text{C}(p, \gamma)$ | (1977BI07) |
| | ≤ 5.5 | $^{13}\text{C}(p, \gamma)$ | (1980AN1E) |
| 6.20 ^a | (13.7 ± 1.1) psec | $^{12}\text{C}(^3\text{He}, p)$ | (1978MO27) |
| | (12.9 ± 1.9) psec | $^9\text{Be}(^7\text{Li}, 2n)$ | (1981KO08) |
| 6.44 | (13.5 ± 1.0) psec | | mean: see (1981KO08) ^g |
| | 185 ± 15 | $^{13}\text{C}(p, \gamma)$ | (1977BI07) |
| | 132 ± 8 | $^{13}\text{C}(p, \gamma)$ | (1980AN1E) |
| 7.03 | 160 ± 20 | | adopted value ^f |
| 8.49 | 620 ± 60^A | | adopted value ^f |
| 8.96 | 5.4 ± 0.5 | $^{14}\text{N}(\gamma, \gamma)$ | (1966SW01) |
| 9.13 | 19 ± 3 | $^{13}\text{C}(p, \gamma)$ | (1978KE03) ^f |
| | 105 ± 17 | $^{13}\text{C}(p, \gamma)$ | (1978KE03) ^f |
| | 13 ± 5 | $^{13}\text{C}(p, \gamma)$ | (1978KE03) |

A = adopted.

^a See also Table 14.13 in (1976AJ04) and Table 14.19 here.

^b Based on unpublished measurements: see Table 14.13 (1976AJ04).

^c $|g| = 0.66 \pm 0.04$ (1978MO27).

^d Previous value [see (1976AJ04)] is unpublished.

^e See also (1977FR1M, 1979EN01).

^f I am indebted to P.M. Endt for his suggestions.

^g See also (1980TO05).