

Table 15.6 from (1976AJ04): Lifetimes of some ^{15}N states ^a

| E_x (MeV) | τ_m (psec) | Reaction | Refs. |
|-------------------|--|--|--------------------------|
| 5.27 | 2.9 ± 0.5 | $^{14}\text{N}(\text{d}, \text{p})$ | (1967BI11) |
| | 2.6 ± 0.2 | $^{12}\text{C}(^3\text{He}, \text{p})$ | (1975FO06) |
| | 2.5 ± 0.5 | $^{13}\text{C}(^{14}\text{N}, ^{12}\text{C})$ | (1975SE04) |
| 5.30 | 2.6 ± 0.2 | mean | |
| | $(4.3 \pm 1.8) \times 10^{-2}$ $(2.2 \pm 0.7) \times 10^{-2}$ | $^{14}\text{N}(\text{d}, \text{p})$ $^{14}\text{N}(\text{n}, \gamma)$ | (1965AL19) (1969WE07) |
| 6.32 | $(2.5 \pm 0.7) \times 10^{-2}$ | mean | |
| | < 0.040 | $^{14}\text{N}(\text{n}, \gamma)$ | (1969WE07) |
| | $(0.35 \pm 0.07) \times 10^{-3}$ $(0.21 \pm 0.02) \times 10^{-3}$ | $^{15}\text{N}(\text{e}, \text{e})$ $^{15}\text{N}(\gamma, \gamma)$ | (1975KI08) (1975MO28) |
| 7.16 ^b | 0.155 ± 0.025 | $^{13}\text{C}(^3\text{He}, \text{p})$ | (1966LI07) |
| | $0.028 \pm 0.008^{\text{A}}$ | $^{13}\text{C}(^{14}\text{N}, ^{12}\text{C})$ | (1975SE04) |
| 7.30 ^c | < 0.025 | $^{14}\text{N}(\text{d}, \text{p})$ | (1968GI11) |
| | < 0.050 $(0.25 \pm 0.10) \times 10^{-3}$ | $^{13}\text{C}(^{14}\text{N}, ^{12}\text{C})$ $^{15}\text{N}(\text{e}, \text{e})$ | (1975SE04) (1975KI09) |
| 7.57 ^b | 0.15 ± 0.05 | $^{13}\text{C}(^3\text{He}, \text{p})$ | (1966LI07) |
| | $0.06 \pm 0.02^{\text{A}}$ | $^{14}\text{N}(\text{d}, \text{p})$ | (1968GI11) |
| 8.31 ^c | < 0.020 | $^{14}\text{N}(\text{n}, \gamma), (\text{d}, \text{p})$ | (1968GI11, 1969WE07) |
| 8.58 | $\lesssim 0.1$ | $^{13}\text{C}(^3\text{He}, \text{p})$ | (1972ST22) |
| 9.05 | $\lesssim 0.1$ | $^{13}\text{C}(^3\text{He}, \text{p})$ | (1972ST22) |
| 9.152 | < 0.040 | $^{13}\text{C}(^3\text{He}, \text{p})$ | (1972ST22) |
| 9.155 | (< 0.010) | $^{14}\text{N}(\text{n}, \gamma)$ | (1969WE07) |
| 9.23 | < 0.13 | $^{13}\text{C}(^3\text{He}, \text{p})$ | (1972ST22) |
| 9.83 | < 0.19 | $^{12}\text{C}(^7\text{Li}, \alpha)$ | (1969TH01) |
| 9.93 | $\lesssim 0.1$ | $^{13}\text{C}(^3\text{He}, \text{p})$ | (1972ST22) |

A = adopted.

^a See also Table 15.7 in (1970AJ04) and Table 15.16 here.

^b See also (1975KI09).

^c See also (1972ST22).