

Table 14.14 from (1986AJ01): Lifetimes of some ^{14}N states ^a

E_x (MeV)	τ_m (fsec)	Reaction	Refs.
2.31	75 ± 19	$^{13}\text{C}(\text{p}, \gamma)$	(1972RE10)
	105 ± 15	$^{13}\text{C}(\text{p}, \gamma)$	(1977BI07)
	79 ± 7	$^{13}\text{C}(\text{p}, \gamma)$	(1980AN1E)
	<u>106 ± 10</u>	$^{14}\text{N}(\gamma, \gamma)$	<u>(1975RA22)</u>
	$92 \pm 10^{\text{A}}$		
3.95	8.4 ± 0.4	$^{13}\text{C}(\text{p}, \gamma)$	(1977BI07)
	5.7 ± 0.7	$^{13}\text{C}(\text{p}, \gamma)$	(1980AN1E)
	<u>8.7 ± 0.9</u>	$^{14}\text{N}(\text{e}, \text{e})$	<u>see reaction 45 in (1981AJ01)</u>
	$8.0 \pm 1.0^{\text{A}}$		
4.92	$7.6 \pm 1.4^{\text{A}}$		b
5.11	(6.2 ± 0.4) psec ^c	$^{12}\text{C}(^3\text{He}, \text{p})$	(1978MO27)
	(6.27 ± 0.07) psec ^A	$^{11}\text{B}(\alpha, \text{n})$	(1982BH06)
5.69	$16 \pm 8^{\text{A}}$	$^{13}\text{C}(\text{p}, \gamma)$	(1977BI07)
5.83	(13.7 ± 1.1) psec	$^{12}\text{C}(^3\text{He}, \text{p})$	(1978MO27)
	(12.9 ± 1.9) psec	$^9\text{Be}(^7\text{Li}, 2\text{n})$	(1981KO08)
	<u>(11.88 ± 0.24) psec</u>	$^{11}\text{B}(\alpha, \text{n})$	<u>(1982BH06)</u>
	(11.98 ± 0.23) psec		mean
6.20	185 ± 15	$^{13}\text{C}(\text{p}, \gamma)$	(1977BI07)
	<u>132 ± 8</u>	$^{13}\text{C}(\text{p}, \gamma)$	<u>(1980AN1E)</u>
	$160 \pm 20^{\text{A}}$		e
6.45	$620 \pm 60^{\text{A}}$		e
7.03	5.4 ± 0.5	$^{14}\text{N}(\gamma, \gamma)$	(1966SW01)
8.49 ^d	19 ± 3	$^{13}\text{C}(\text{p}, \gamma)$	(1978KE03) ^e
8.96	105 ± 17	$^{13}\text{C}(\text{p}, \gamma)$	(1978KE03) ^e
9.13	13 ± 5	$^{13}\text{C}(\text{p}, \gamma)$	(1978KE03)

A = adopted.

^a See also [Tables 14.13 in \(1976AJ04\)](#), [14.12 in \(1981AJ01\)](#), and [14.22 here](#).

^b Based on unpublished measurements: see [\(1976AJ04\)](#).

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

^d See also [\(1981KO08\)](#).

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