

Table 12.8 from (1968AJ02): Electromagnetic decay of ^{12}C levels ^a

Level	Width	Reaction	Refs.
4.44	$\Gamma_\gamma = 12.5 \pm 2.5 \text{ meV}$	$^{12}\text{C}(e, e)$	(1956HE83)
	11.2 ± 1.2	$^{12}\text{C}(e, e)$	(1964CR11)
	10.6 ± 1.1	$^{12}\text{C}(e, e)$	(1967CR01)
	12.2 ± 0.8	$^{12}\text{C}(e, e)$	(1967AR1A)
	13 ± 1.5	$^9\text{Be}(\alpha, n)$	(1961DE38)
	$11.5^{+5}_{-3.2}$	$^9\text{Be}(\alpha, n)$	(1966WA10)
	10.1 ± 2	$^{12}\text{C}(\gamma, \gamma)$	(1958RA14)
7.65	$11.7 \pm 0.5 \text{ meV}$		mean
	$\Gamma_\pi = 55 \pm 30 \mu\text{eV}$	$^{12}\text{C}(e, e)$	(1956FR27)
	65 ± 7	$^{12}\text{C}(e, e)$	(1964CR11)
	73 ± 13	$^{12}\text{C}(e, e)$	(1965GU04)
9.64	62 ± 6	$^{12}\text{C}(e, e)$	(1967CR01)
	$64 \pm 4 \mu\text{eV}$		mean
	$\Gamma_\pi/\Gamma = (6.6 \pm 2.2) \times 10^{-6}$	$^9\text{Be}(\alpha, n)$	(1960AJ04, 1960AL04)
	$\Gamma_\gamma/\Gamma = (3.3 \pm 0.9) \times 10^{-4}$	$^{10}\text{B}(^3\text{He}, p)$	(1961AL23)
	(3.5 ± 1.2)	$^{10}\text{B}(^3\text{He}, p)$	(1964HA23)
12.71	$(2.8 \pm 0.3) \times 10^{-4}$	$^{14}\text{N}(d, \alpha)$	(1963SE23)
	$\Gamma = \Gamma_\pi/(\Gamma_\pi/\Gamma) = (9.7 \pm 3.3) \text{ eV}$		mean
	$\Gamma_\gamma = \Gamma(\Gamma_\gamma/\Gamma) = (2.8 \pm 1.0) \text{ meV}$		
	$\Gamma_\gamma = 0.36 \pm 0.04 \text{ meV}$	$^{12}\text{C}(e, e)$	(1964CR11)
15.11 ^b	0.31 ± 0.04	$^{12}\text{C}(e, e)$	(1967CR01)
	$0.34 \pm 0.03 \text{ meV}$		mean
12.71	$\Gamma_\gamma/\Gamma_\alpha = 0.025 \pm 0.007$	$^{10}\text{B}(^3\text{He}, p)$	(1958MO99, 1959AL96)
	$\Gamma_\gamma/\Gamma = 0.027 \pm 0.007$	$^{12}\text{C}(p, p)$	(1962WA31)
15.11 ^b	$\Gamma_{\gamma_0} = 54.5 \pm 9.3 \text{ eV}$	$^{12}\text{C}(\gamma, \gamma)$	(1957HA13)
	59.2 ± 9.7	$^{12}\text{C}(\gamma, \gamma)$	(1959GA09)

Table 12.8 from (1968AJ02): Electromagnetic decay of ^{12}C levels ^a (continued)

Level	Width	Reaction	Refs.
	40.2 ± 5.2	$^{12}\text{C}(\gamma, \gamma)$	(1963SC21)
	54 ± 6	$^{12}\text{C}(\gamma, \gamma)$	(1961BU1E)
	50.5 ± 7.1	$^{12}\text{C}(\gamma, \gamma)$	(1960HA1H)
	37 ± 5	$^{12}\text{C}(\gamma, \gamma)$	(1967KU11)
	40_{-6}^{+8}	$^{12}\text{C}(e, e)$	(1959BA36, 1960BA47)
	39 ± 4	$^{12}\text{C}(e, e)$	(1962ED02)
	34.4 ± 3	$^{12}\text{C}(e, e)$	(1964GU05)
	36.0 ± 3	$^{12}\text{C}(e, e)$	(1967PE07)
	$39.4 \pm 1.5 \text{ eV}$		mean
	$\Gamma_{\alpha}/\Gamma < 0.05$	$^{10}\text{B}(^3\text{He}, p)$	(1965AL1B)
	$\Gamma_{\gamma}/\Gamma = 1.15 \pm 0.3$	$^{12}\text{C}(p, p)$	(1962WA31)

^a See also $^{11}\text{B}(p, \gamma)^{12}\text{C}$ and $^{12}\text{C} + \gamma$.

^b See also Table 12.15.