Table 12.4 from (1959AJ76): Energy levels of ^{12}C

E_x (MeV $\pm$ keV)	$J^\pi; T$	Γ (keV)	Decay	Reactions
0	$0^+; 0$	– [a]	stable	1, 3, 10, 11, 16, 17, 19, 20, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 37, 39, 40, 41, 42
4.433 ± 5	$2^+; 0$	$0.01 - 0.02$ eV [b]	γ	3, 10, 16, 19, 20, 24, 25, 26, 27, 29, 30, 34, 39, 41
7.656 ± 7	$0^+; 0$	< 25	α, (γ)	3, 10, 16, 19, 24, 25, 26, 29, 30, 39
9.63 ± 14	$(1^-); 0$	30 ± 8 [a]	α	10, 16, 24, 25, 26, 27, 29, 39, 42
10.1 ± 200	$0^+; 0$	≈ 2000	α	19, 25, 42
10.84 ± 50				10, 16, 26
11.1 ± 100				16
11.81 ± 50				10, 16
12.73 ± 50	$(1^+); 0$		(α), γ	10, 16, 26, 29, 30
(13.21 ± 50)				16
13.30 ± 50				10, 16
14.05 ± 60				10, 16
15.11 ± 10	$1^+; 1$	0.069	(α), γ	3, 10, 16, 20, 23, 25, 26, 34, 39
15.62 ± 60				10, 16
16.11 ± 2	$2^+; 1$	6	α, p, γ	10, 12, 14, 16, 23
16.58 ± 15	$2^-; (1)$	295	α, p, γ	10, 12, 23
17.23	$1^-; (1)$	1160	α, p, γ	12, 14, 22, 23
17.77	(0^+)	140	α, p	12
18.37	(2^+)	280	α, p, γ	12, 23
18.40		46	p, p′	14
18.85		90	n, p, γ	12, 13, 14
19.26		450	n, p, γ	12, 13, 14, 21
19.42		45	p	14
19.67		180	n, p, (γ)	13, 21
19.88		90	p, p′	14
20.27		180	n, p, (γ)	13, 14, 21
20.49		180	(n), p, γ	12, 21
20.65		180	n, p, γ	12, 13, 14, 21, 22, 26
21.34			n, p, (γ)	12, 13, 21, 22

Table 12.4 from (1959AJ76): Energy levels of ^{12}C (continued)

E_x (MeV $\pm$ keV)	$J^\pi; T$	Γ (keV)	Decay	Reactions
21.80			n, (α), p, (γ)	12, 13, 21, 22, 23
22.55 $\pm$ 100		$\approx$ 4000	n, p, γ	12, 13, 20, 21, 22, 23
(22.8)			(n), (α), (p), (γ)	21, 22
(24.3)			n, (α), (γ)	13, 23
(25.4)			n, p, d	6, 13
(26.0)			n, α, (p), d, (γ)	5, 6, 8, 22
(26.4)			(α), p, d	6, 8
(26.8)			α, p, d	6, 8
(27.0)			p, d	6
(27.2)			p, d	6
(27.4)			p, d	6
(29.4)			(α), (γ)	23

[a] For reduced width, see ^{11}B(d, n)^{12}C and Table 12.8.

[b] See reactions 3, 20 and 24.