

Table 15.1 from (1976AJ04): Energy levels of ^{15}C

E_x (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
g.s. 0.7400 \pm 1.5	$\frac{1}{2}^+; \frac{3}{2}$ $\frac{5}{2}^+; \frac{3}{2}$	$\tau_{1/2} = 2.449 \pm 0.004$ sec $\tau_m = 3.76 \pm 0.10$ nsec $g = -0.77 \pm 0.06$	β^- γ	1, 2, 3, 6, 7 3, 6
3.105 \pm 5	$\frac{1}{2}^-; \frac{3}{2}$	$\Gamma_{\text{c.m.}} \leq 40$		3, 6
4.221 \pm 3 (4.55 \pm 30)	$(\frac{7}{2}^+, \frac{5}{2}^-)$	< 14		3, 6 3
5.833 \pm 20	$\leq \frac{3}{2}$			3
5.858 \pm 20	$\leq \frac{3}{2}$			3
6.370 \pm 15	$(\frac{5}{2}, \frac{7}{2}^+, \frac{9}{2}^+)$	< 20		3, 6
6.429 \pm 7	$(\frac{3}{2} \rightarrow \frac{7}{2})$	≈ 50		3, 6
6.461 \pm 20	$(\frac{9}{2}^-, \frac{11}{2})$	< 14		3, 6
6.540 \pm 5	^a	< 14		3, 6
6.639 \pm 15	$(\frac{3}{2})$	20 ± 10		3
6.845 \pm 5	$(\frac{13}{2}, \frac{11}{2})^+$	< 14		3, 6
6.884 \pm 5	$(\frac{9}{2})^a$	< 20		3, 6
7.098 \pm 6	$(\frac{3}{2})$	< 15		3, 6
7.352 \pm 6	$(\frac{9}{2}, \frac{11}{2})$	20 ± 10		3, 6
7.414 \pm 20				3
7.75 \pm 30 ^b				3, 6
8.01 \pm 30				3
8.11 \pm 10 ^b				3, 6
8.47 \pm 15	$(\frac{9}{2} \rightarrow \frac{13}{2})$	40 ± 15		3, 6
8.559 \pm 15	$(\frac{7}{2} \rightarrow \frac{13}{2})$	40 ± 15		3
9.00 \pm 30 (9.73 \pm 30)				3 3
9.789 \pm 20	$(\frac{9}{2} \rightarrow \frac{15}{2})$	20 ± 15		3
10.248 \pm 20	$(\frac{5}{2} \rightarrow \frac{9}{2})$	20 ± 15		3
11.015 \pm 25				3
11.123 \pm 20 (11.68 \pm 30)	$(\frac{11}{2} \rightarrow \frac{19}{2})$	30 ± 20		3 3
11.825 \pm 20	$\geq \frac{13}{2}$	70 ± 30		3

^a See Table 15.3.

^b Broad or unresolved states.