

Table 15.1 from (1991AJ01): Energy levels of ^{15}C ^a

E_x (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
g.s.	$\frac{1}{2}^+; \frac{3}{2}$	$\tau_{1/2} = 2.449 \pm 0.005$ s $ g = 2.63 \pm 0.14$	β^-	1, 2, 3, 4, 6, 7, 9
0.7400 ± 1.5	$\frac{5}{2}^+$	$\tau_m = 3.76 \pm 0.10$ ns $g = -0.703 \pm 0.012$	γ	2, 3, 4, 7, 8
3.103 ± 4	$\frac{1}{2}^-$	$\Gamma_{\text{c.m.}} \leq 40$		2, 3, 9
4.220 ± 3	$\frac{5}{2}^-$	< 14		2, 3
4.657 ± 9	$\frac{3}{2}^-$			2, 3
4.78 ± 100	$\frac{3}{2}^+$	1740 ± 400		6
5.833 ± 20	$(\frac{3}{2}^+)$	64 ± 8		2, 6
5.866 ± 8	$\frac{1}{2}^-$			2, 3
6.358 ± 6	$(\frac{5}{2}, \frac{7}{2}^+, \frac{9}{2}^+)$	< 20		2, 3
6.417 ± 6	$(\frac{3}{2} \rightarrow \frac{7}{2})$	≈ 50		2, 3
6.449 ± 7	$(\frac{9}{2}^-, \frac{11}{2})$	< 14		2, 3
6.536 ± 4	a	< 14		2, 3
6.626 ± 8	$(\frac{3}{2})$	20 ± 10		2, 3
6.841 ± 4	a	< 14		2, 3
6.881 ± 4	$(\frac{9}{2})^a$	< 20		2, 3
7.095 ± 4	$(\frac{3}{2})$	< 15		2, 3
7.352 ± 6	$(\frac{9}{2}, \frac{11}{2})$	20 ± 10		2, 4
7.414 ± 20				2
7.75 ± 30 ^b				2
8.01 ± 30				2
8.11 ± 10 ^b				2
8.47 ± 15	$(\frac{9}{2} \rightarrow \frac{13}{2})$	40 ± 15		2
8.559 ± 15	$(\frac{7}{2} \rightarrow \frac{13}{2})$	40 ± 15		2
9.00 ± 30				2
(9.73 ± 30)				2
9.789 ± 20	$(\frac{9}{2} \rightarrow \frac{15}{2})$	20 ± 15		2
10.248 ± 20	$(\frac{5}{2} \rightarrow \frac{9}{2})$	20 ± 15		2
11.015 ± 25				2
11.123 ± 20	$(\frac{11}{2} \rightarrow \frac{19}{2})$	30 ± 20		2
(11.68 ± 30)				2
11.825 ± 20	$\geq \frac{13}{2}$	70 ± 30		2

^a See also [Tables 15.2](#) and [15.3](#) and [reaction 8](#).

^b Broad or unresolved states.