Table 14.5 from (1991AJ01): Levels of ^{14}C from ^{9}Be(^{6}Li, p)^{14}C [a]

E_x (MeV±keV)	$\Gamma_{c.m.}$ (keV)	$2J_f + 1$ [b]	J^π [c]
6.089 ± 10		2.5 [3]	
6.588 ± 10		1.0 [1]	
6.726 ± 10		7.6 [7]	
6.899 ± 10		1.1 [1]	
7.016 ± 10		4.5 [5]	
7.341 ± 10		5.2 [5]	
8.318 ± 10	22 ± 6	5.1	2^+
9.796 ± 10	45 ± 12	7.7	3
10.441 ± 15		10.8	$2^+ + 3$
10.512 ± 15	26 ± 8	9.1	4
10.743 ± 15	20 ± 7	15.4	
11.306 ± 15	46 ± 12	2.4	1^-
11.397 ± 15	22 ± 7	6.2	2^+, 3
11.667 ± 15	20 ± 7	12.4	5^-
11.74 ± 20			
12.57 ± 25	80 ± 20	15.1	
12.867 ± 20	30 ± 10	10.4	4, 5
12.970 ± 20	30 ± 10	7.8	3, 4
14.667 ± 20	57 ± 15		2^+, 3, 4, 5, 6^+
14.867 ± 25			
15.19 ± 30			
(15.37 ± 30)			
15.44 ± 40			
(16.02 ± 50)			
16.411 ± 20			
(16.57 ± 40)			
16.715 ± 30			
(17.28 ± 40)			
17.95 ± 40			
18.10 ± 40			

[a] (1973AJ01): $E(^6\mathrm{Li}) = 20$ MeV. See Table 14.6 in (1981AJ01) for additional information on cross sections and reduced widths.

[b] The first number gives $2J_\mathrm{f} + 1$, based on a best fit to the experimentally determined values for the cross section of the states with known spins. These $2J_\mathrm{f} + 1$ values are determined to $\pm 10\%$, except for the last six values which are determined to $\pm 20\%$. The second number, in brackets, gives $2J_\mathrm{f} + 1$ derived from the J_f assignments shown in Table 14.3.

[c] Suggested from the $2J_\mathrm{f} + 1$ rule and comparison of predicted neutron width with observed $\Gamma_{\mathrm{c.m.}}$ assuming $0.01 < \theta_\mathrm{n}^2 < 1.0$.