Table 14.6 from (1981AJ01): Levels of ^{14}C from ^{9}Be(^{6}Li, p)^{14}C [a]

E_x (MeV ± keV)	$\Gamma_{c.m.}$ (keV)	σ [b] (μb)	$2J_f + 1$ [c]	J^π [d]	θ_n^2 [e]
6.089 ± 10		71	2.5 [3]		
6.588 ± 10		30	1.0 [1]		
6.726 ± 10		220	7.6 [7]		
6.899 ± 10		31	1.1 [1]		
7.016 ± 10		130	4.5 [5]		
7.341 ± 10		151	5.2 [5]		
8.318 ± 10	22 ± 6	146	5.1	2^+	0.08 ± 0.02
9.796 ± 10	45 ± 12	223	7.7	3	0.4 ± 0.1 if $\pi = +$
					0.04 ± 0.01 if $\pi = -$
10.441 ± 15		312	10.8	2^+, 3	
10.512 ± 15	26 ± 8	262	9.1	4	0.08 ± 0.02 if $\pi = +$
					1.3 ± 0.4 if $\pi = -$
10.743 ± 15	20 ± 7	444	15.4		
11.306 ± 15	46 ± 12	70	2.4	1^-	0.012 ± 0.003
11.397 ± 15	22 ± 7	179	6.2	2^+, 3	
11.667 ± 15	20 ± 7	358	12.4	5^-	0.20 ± 0.07
11.74 ± 20					
12.57 ± 25	80 ± 20	435	15.1		
12.867 ± 20	30 ± 10	300	10.4	4, 5	
12.970 ± 20	30 ± 10	225	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)					

Table 14.6 from (1981AJ01): Levels of ^{14}C from ^{9}Be(^{6}Li, p)^{14}C [a] (continued)

E_x (MeV ± keV)	$\Gamma_{c.m.}$ (keV)	σ [b] (μb)	$2J_f + 1$ [c]	J^π [d]	θ_n^2 [e]
17.95 ± 40					
18.10 ± 40					

[a] (1973AJ01): $E(^6\text{Li}) = 20$ MeV.

[b] Total cross section for formation of this state; absolute value: ±20% except for the last six values, ±30%.

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

[d] Suggested from the $2J_f + 1$ rule and comparison of predicted neutron width with observed $\Gamma_{c.m.}$ assuming $0.01 < \theta_n^2 < 1.0$.

[e] Calculated from neutron penetration of the centrifugal barrier, assuming that the total width is the neutron decay width Γ_n.