

$^{13}\text{C}(^7\text{Li,p})$ 1977Fo10

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Tilley, Weller, Cheves, Chasteler		NP A595, 1 (1995)	31-Oct-1994

Projectile ^7Li E=16.0 MeV. Angular distributions measured for states with excitation energy less than 6.8 MeV.

 ^{19}O Levels

E(level)	J^π	Comments
0	5/2	
94.4 11	3/2	
1471.6 18	1/2	
2371.1 19	9/2	
2777.6 19	7/2	
3067.4 16	3/2	
3153.6 28	5/2	
3231.6 23	3/2	
3944.9 14		Corresponds to two unresolved states. Assuming one of these to be a $3/2^-$ state, the other should have $J=7/2$ to $13/2$.
4109.3 19	3/2	
4328.1 24	3/2,5/2	
4402.5 27	3/2,5/2,7/2	
4582.0 46	3/2	
4702.6 27		May correspond to unresolved states.
4968.3 55	5/2,7/2	
5007.0 45	3/2,5/2	
5082.0 54	1/2	
5148.4 32	5/2	
5384.0 28	9/2,11/2,13/2	J assignment assumes a single state.
5503.5 31		Narrow unresolved states. See discussion in 1977Fo10 .
5704.6 43		Cross section is too large for the known state at this energy with $J^\pi=3/2^+$. If this group corresponds to a doublet, the other member should have $J=1/2$ to $5/2$.
6119.6 32		Sharp group; if due to a single state $J=11/2$ to $17/2$.
6191.6 55	1/2	
6269.3 26	7/2	
6405.8 31		Sharp group; if due to a single state $J=11/2$ to $17/2$.
6446.2 48	(7/2,9/2,11/2)	
6582.7 60		Total cross section to this state is very high implying unresolved states: if there are two states one must have $J>13/2$.
6903 8		
6988 9		
7118 10		
7242 8		
7508 10		
8048 20		
8132 20		
8247 20		
8450 20		
8561 20		
8591 20		
8916 20		
8923 20		
9022 20		
9064 20		
9253 20		
9324 20		
9430		
9560		

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 $^{13}\text{C}(^7\text{Li,p})$ **1977Fo10** (continued) ^{19}O Levels (continued)E(level)

9770

9880

9930

9980