

Table 11.8 from (1980AJ01): Structure in ${}^7\text{Li}(\alpha, \alpha){}^7\text{Li}$ and ${}^7\text{Li}(\alpha, \alpha'){}^7\text{Li}$ ^a

E_α ^b (keV)	E_α ^c (keV)	$\Gamma_{\text{c.m.}}$ (keV)	E_x (MeV \pm keV)	J^π
1900 ± 10 ^d		130 ± 30	9.875 ± 10	$\frac{3}{2}^+$
2480 ± 50		150 ± 40	10.24 ± 50	$\frac{3}{2}^{(-)}, \frac{1}{2}$
	2630 ± 30	80 ± 30	10.34 ± 30	$\frac{5}{2}^-, \frac{7}{2}^-$
3040 ± 10 ^d	3040	70 ± 10	10.601 ± 10	$\frac{7}{2}^+$
3600 ± 50		4500	10.96 ± 50	$\frac{5}{2}^-$
	4120 ± 30	90 ± 50	11.29 ± 30	$\frac{9}{2}^+$
4430 ± 50	4430		11.49 ± 50	
4600 ± 50		150 ± 50	11.59 ± 50	
5050 ± 30		150 ± 50	11.88 ± 30	
	5300 ± 200	≈ 1000	12.0 ± 200	
	5500 ± 100	60 ± 50	(12.17 ± 100) ^e	
6100 ± 30		150 ± 50	12.55 ± 30	
6850 ± 60		270 ± 50	13.03 ± 60	
(7200 ± 50) ^f		50 ± 50	(13.25 ± 50) ^e	
	7800 ± 100	500 ± 200	(13.63 ± 100) ^e	
(8450 ± 200) ^g		500 ± 200	(14.0 ± 200)	
(9450 ± 200) ^g		≤ 250	(14.7 ± 200)	
	9950 ± 20	500 ± 200	(15.00 ± 20) ^e	
(11200 ± 200) ^g			(15.8 ± 200)	
^h				

^a (1966CU02), except where shown. See also Table 11.9 in (1975AJ02).

^b ${}^7\text{Li}(\alpha, \alpha'\gamma){}^7\text{Li}$: σ (total).

^c ${}^7\text{Li}(\alpha, \alpha_0){}^7\text{Li}$.

^d (1967PA19). Other values are listed in Table 11.8 of (1975AJ02).

^e ${}^7\text{Li}(\alpha, n){}^{10}\text{B}$ threshold.

^f Anomaly in angular distribution.

^g Observed at $\theta = 60^\circ$.

^h For possible higher structures see (1971BI12, 1973KE13).