

Table 11.6 from (1990AJ01): 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 \pm 10		130 \pm 30	9.873 \pm 10	$\frac{3}{2}^+$
2480 \pm 50		150 \pm 40	10.24 \pm 50	$\frac{3}{2}^{(-)}, \frac{1}{2}$
	2630 \pm 30	80 \pm 30	10.34 \pm 30	$\frac{5}{2}^-, \frac{7}{2}$
3040 \pm 10	3040	70 \pm 10	10.599 \pm 10	$\frac{7}{2}^+$
3600 \pm 50		4500	10.96 \pm 50	$\frac{5}{2}^-$
	4120 \pm 30	90 \pm 50	11.29 \pm 30	$\frac{9}{2}^+$
4430 \pm 50	4430		11.49 \pm 50	
4600 \pm 50		150 \pm 50	11.59 \pm 50	
5050 \pm 30		150 \pm 50	11.88 \pm 30	
	5300 \pm 200	\approx 1000	12.0 \pm 200	
	5500 \pm 100	60 \pm 50	(12.17 \pm 100) ^d	
6100 \pm 30		150 \pm 50	12.55 \pm 30	
6850 \pm 60		270 \pm 50	13.03 \pm 60	
(7200 \pm 50) ^e		50 \pm 50	(13.25 \pm 50) ^d	
	7800 \pm 100	500 \pm 200	(13.63 \pm 100) ^d	
(8450 \pm 200) ^f		500 \pm 200	(14.0 \pm 200)	
(9450 \pm 200) ^f		\leq 250	(14.7 \pm 200)	
	9950 \pm 20	500 \pm 200	(15.00 \pm 20) ^d	
(11200 \pm 200) ^f			(15.8 \pm 200)	

^a Mostly from (1966CU02). For other parameters see Table 11.9 in (1975AJ02). See also Table 11.8 in (1985AJ01).

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

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

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

^e Anomaly in angular distribution.

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