

Table 11.6 from (1968AJ02): Structure in  ${}^7\text{Li}(\alpha, \alpha'){}^7\text{Li}^*$  and  ${}^7\text{Li}(\alpha, \alpha){}^7\text{Li}$

A		B		C		D			
$E_\alpha$ (keV)	$\Gamma_{\text{cm}}$ (keV)	$E_\alpha$ (keV)	$E_\alpha$ (keV)	$E_\alpha$ (keV)	$\Gamma_{\text{cm}}$ (keV)	$E_\alpha^a$ (keV)	$E_\alpha^b$ (keV)	$\Gamma_{\text{cm}}$ (keV)	$E_x$ (MeV $\pm$ keV)
1889 $\pm$ 10	125 $\pm$ 10	1910	1910 $\pm$ 20	160		1920 $\pm$ 30		130 $\pm$ 30	9.89 $\pm$ 20
2500 $\pm$ 30	$\approx$ 155	2460	2490 $\pm$ 50	220		2480 $\pm$ 50		150 $\pm$ 40	10.24 $\pm$ 35
		3060	3060 $\pm$ 30	100		3032 $\pm$ 10	2630 $\pm$ 30	80 $\pm$ 30	10.34 $\pm$ 20
		3600	3600 $\pm$ 100	670		3600 $\pm$ 50	3032	$\geq$ 900	10.595 $\pm$ 6
						4430 $\pm$ 50	4430	90 $\pm$ 50	10.96 $\pm$ 35
						4600 $\pm$ 50			11.29 $\pm$ 20
						5050 $\pm$ 30			(11.49) <sup>e</sup>
								150 $\pm$ 50	11.59 $\pm$ 35
								150 $\pm$ 50	11.88 $\pm$ 20
								$\approx$ 1000	12.04 $\pm$ 130
								60 $\pm$ 50	(12.17) <sup>e</sup>
								150 $\pm$ 50	12.55 $\pm$ 20
								270 $\pm$ 50	13.03 $\pm$ 45
						(7200 $\pm$ 50) <sup>c</sup>		50 $\pm$ 50	(13.25) <sup>e</sup>
						(8450 $\pm$ 200) <sup>d</sup>		500 $\pm$ 200	(13.63) <sup>e</sup>
						(9450 $\pm$ 200) <sup>d</sup>		500 $\pm$ 200	(14.04 $\pm$ 130)
						(11200 $\pm$ 200) <sup>d</sup>		$\leq$ 250	(14.68 $\pm$ 130)
								500 $\pm$ 200	(15.00) <sup>e</sup>
								180 $\pm$ 100	(15.80 $\pm$ 130)

A: (1954LI48):  ${}^7\text{Li}(\alpha, \alpha'){}^7\text{Li}$ . B: (1954HE22):  ${}^7\text{Li}(\alpha, \alpha'){}^7\text{Li}$ . C: (1957BI84):  ${}^7\text{Li}(\alpha, \alpha'){}^7\text{Li}$ . D: (1966CU02): see also Table 11.7.  
<sup>a</sup>  ${}^7\text{Li}(\alpha, \alpha'){}^7\text{Li}$ :  $\sigma$ (total). <sup>b</sup>  ${}^7\text{Li}(\alpha, \alpha){}^7\text{Li}$ . <sup>c</sup> Anomaly in angular distribution. <sup>d</sup>  ${}^7\text{Li}(\alpha, \alpha'){}^7\text{Li}$ :  $\theta = 60^\circ$ . <sup>e</sup>  ${}^7\text{Li}(\alpha, n){}^{10}\text{B}$  threshold.