

Table 7.2 from (74AJ01):  ${}^7\text{Li}$  levels from  ${}^3\text{H} + {}^4\text{He}$

$E_x$ (MeV $\pm$ keV)	$J^\pi$	$l_\alpha$	$LS$ term	$R$ (fm)	$\theta_\alpha^2$ <sup>a</sup>	$\theta_{n_0}^2$	$\theta_{n_1}^2$ <sup>b</sup>	Refs.
4.65 $\pm$ 50	$\frac{7}{2}^-$	3	${}^2\text{F}_{7/2}$	4.0	0.57 $\pm$ 0.04			(SP67B)
4.65 $\pm$ 20	$\frac{7}{2}^-$	3	${}^2\text{F}_{7/2}$	4.4	0.37			(IV68)
6.64 $\pm$ 100	$\frac{5}{2}^-$	3	${}^2\text{F}_{5/2}$	4.0	1.36 $\pm$ 0.13	0.000 $\pm$ 0.002		(SP67B)
6.79 $\pm$ 90	$\frac{5}{2}^-$	3	${}^2\text{F}_{5/2}$	4.4	0.52			(IV68)
7.47 $\pm$ 30	$\frac{5}{2}^-$	3	${}^4\text{P}_{5/2}$	4.0	0.011 $\pm$ 0.001	0.26 $\pm$ 0.02		(SP67B)
9.67 $\pm$ 100	$\frac{7}{2}^-$	3	${}^4\text{D}_{7/2}$	4.0	0.53 $\pm$ 0.22		2.3 $\pm$ 0.7	(SP67B)

<sup>a</sup>  $\gamma^2 / (\frac{3}{2}\hbar^2 / \mu a^2)$ .

<sup>b</sup> To  ${}^6\text{Li}^*(2.19)$ .