

Table 7.3 from (1984AJ01):  ${}^7\text{Li}$  levels from  ${}^3\text{H} + {}^4\text{He}$  <sup>a</sup>

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

<sup>a</sup> For references see [Table 7.3 in \(1979AJ01\)](#).

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

<sup>c</sup>  $\theta_{n_1}^2$  to  ${}^6\text{Li}^*$ (2.19).