Table 7.3 from (84AJ01): ^{7}Li levels from $^{3}\mathrm{H} + {}^{4}\mathrm{He}$ [a]

E_{x} (MeV + keV)	J^{π}	l_{α}	LS term	R (fm)	θ^{2}_{α} [b]	$\theta^{2}_{\mathrm{n}_0}$
4.65 ± 20	$\frac{7}{2}^{-}$	3	$^{2}\mathrm{F}_{7/2}$	4.0	0.57 ± 0.04	
6.64 ± 100	$\frac{5}{2}^{-}$	3	$^{2}\mathrm{F}_{5/2}$	4.0	1.36 ± 0.13	0.000 ± 0.002
6.79 ± 90	$\frac{5}{2}^{-}$	3	$^{2}\mathrm{F}_{5/2}$	4.4	0.52	
7.47 ± 30	$\frac{5}{2}^{-}$	3	$^{4}\mathrm{P}_{5/2}$	4.0	0.011 ± 0.001	0.26 ± 0.02
9.67 ± 100	$\frac{7}{2}^{-}$	3	$^{4}\mathrm{D}_{7/2}$	4.0	0.53 ± 0.22	2.3 ± 0.7 [c]

[a] For references see Table 7.3 in (79AJ01).
[b] $\gamma^2/(\frac{3}{2}\hbar^2/\mu a^2)$.
[c] $\theta^2_{\mathrm{n}_1}$ to ^{6}Li*(2.19).