

Table 5.4 from (2002TI10): Energy levels of ${}^5\text{Li}$, conventional R -matrix prescription ^a

E_x (MeV)	$J^\pi; T$	Γ_{cm} (MeV)	Γ_p (MeV)	Γ_d (MeV)	Γ_{p^*} (MeV)
g.s. ^b	$\frac{3}{2}^-; \frac{1}{2}$	2.11	2.11	0	0
6.18	$\frac{1}{2}^-; \frac{1}{2}$	19.8	19.8	0	0
16.63	$\frac{3}{2}^+; \frac{1}{2}$	2.09	0.570	1.52 ^c	
19.17	$\frac{3}{2}^-; \frac{1}{2}$	1.50	0.0006	0.136 ^d	1.36
20.30	$\frac{1}{2}^+; \frac{1}{2}$	4.64	0.208	3.72 ^e	0.709
21.09	$\frac{7}{2}^+; \frac{1}{2}$	7.47	0.115	7.36 ^f	
22.60	$\frac{5}{2}^+; \frac{1}{2}$	12.5	0.010	12.5 ^f	
24.27	$\frac{5}{2}^+; \frac{1}{2}$	8.15	1.11	7.04 ^g	
26.86	$\frac{3}{2}^+; \frac{1}{2}$	24.2	0.009	24.2 ^f	

^a See the Introduction for a discussion of the two prescriptions. The channel radii are $a_p = 2.9$ fm, $a_d = 4.8$ fm.

^b Situated 2.08 MeV above the $p + \alpha$ threshold.

^c Entirely ${}^4S(d)$.

^d Primarily ${}^2P(d)$.

^e Primarily ${}^2S(d)$.

^f Primarily ${}^4D(d)$.

^g Primarily ${}^2D(d)$.