

Table 5.3 from (1988AJ01): Energy levels of ${}^5\text{Li}$

E_x (MeV) ^a	$J^\pi; T$	$\Gamma_{\text{c.m.}}$ (MeV)	Decay	Reactions
g.s.	$\frac{3}{2}^-; \frac{1}{2}$	≈ 1.5	p, α	1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
5 – 10	$\frac{1}{2}^-; \frac{1}{2}$	5 ± 2	p, α	1, 6, 10, 11, 13, 14, 15, 17, 18
16.66 ± 0.07	$\frac{3}{2}^+; \frac{1}{2}$	≈ 0.3	γ , p, d, ${}^3\text{He}$, α	1, 2, 3, 6, 13, 15, 18
(18 ± 1) ^a	$(\frac{1}{2}^+); \frac{1}{2}$	broad	γ , p, d, ${}^3\text{He}$, α	1, 2, 13
(20.0 ± 0.5) b	$(\frac{3}{2}, \frac{5}{2})^+; \frac{1}{2}$	≈ 5	γ , p, d, ${}^3\text{He}$, α	1, 2, 3, 4, 6, 13, 15
(34)		≈ 4		18, 19

^a See also Table 5.2. Positive-parity states are predicted to lie at $E_x \approx 5$ MeV ($\frac{1}{2}^+$) and 12 MeV ($\frac{3}{2}^+, \frac{5}{2}^+$): see (1988WO10).

^b For possible additional states see reactions 2 and 18.