

Table 7.2 from (1979AJ01): Energy levels of ${}^7\text{Li}$

E_x (MeV \pm keV)	$J^\pi; T$	τ_m or $\Gamma_{c.m.}$ (keV)	Decay	Reactions
g.s.	$\frac{3}{2}^-; \frac{1}{2}$		stable	1, 6, 12, 13, 16, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 39, 41, 42, 43, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59
0.477611 ± 0.012	$\frac{1}{2}^-; \frac{1}{2}$	$\tau_m = 105 \pm 5 \text{ fsec}^a$	γ	1, 6, 12, 13, 17, 19, 20, 21, 22, 24, 28, 31, 33, 34, 35, 36, 39, 41, 45, 46, 48, 50, 52, 53, 54, 55, 56, 57, 58
4.630 ± 9	$\frac{7}{2}^-; \frac{1}{2}$	$\Gamma = 93 \pm 8 \text{ keV}$	t, α	3, 12, 13, 19, 20, 21, 22, 24, 35, 36, 41, 45, 54
6.68 ± 50	$\frac{5}{2}^-; \frac{1}{2}$	875_{-100}^{+200}	t, α	3, 12, 19, 20, 21, 35, 45
7.456 ± 1.5	$\frac{5}{2}^-; \frac{1}{2}$	89 ± 7	n, t, α	2, 3, 7, 11, 12, 13, 19, 21, 24, 33, 36, 45
(9.5)	$(\frac{3}{2}^+); \frac{1}{2}$	(≈ 3700)	n	7
9.67 ± 100	$\frac{7}{2}^-; \frac{1}{2}$	≈ 400	n, t, α	2, 3, 7, 13, 21, 36
9.85	$\frac{3}{2}^-; \frac{1}{2}$	≈ 1200	n, α	7, 11
11.24 ± 30	$\frac{3}{2}^-; \frac{3}{2}$	260 ± 35	n, p	7, 8, 19, 35
17		broad	γ , n	7, 18

^a See Table 7.4 in (1966LA04) and (1966PA11, 1967CA02, 1975GE1D).