

Table 7.2 from (1984AJ01): 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, 4, 5, 6, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48
0.477612 ± 0.003	$\frac{1}{2}^-; \frac{1}{2}$	$\tau_m = 105 \pm 5$ fsec ^a	γ	4, 5, 6, 11, 12, 14, 15, 16, 17, 18, 19, 20, 21, 24, 27, 28, 29, 30, 31, 32, 33, 34, 37, 38, 39, 41, 43, 45, 46, 47, 48
4.630 ± 9	$\frac{7}{2}^-; \frac{1}{2}$	$\Gamma = 93 \pm 8$ keV	t, α	3, 5, 11, 12, 15, 16, 17, 18, 19, 20, 21, 31, 32, 34, 39, 42, 47
6.68 ± 50	$\frac{5}{2}^-; \frac{1}{2}$	875_{-100}^{+200}	t, α	3, 12, 15, 16, 17, 18, 32, 39
7.4597 ± 1.2	$\frac{5}{2}^-; \frac{1}{2}$	89 ± 7	n, t, α	2, 3, 7, 10, 12, 13, 15, 16, 18, 21, 29, 31, 32, 39
9.67 ± 100 ^b	$\frac{7}{2}^-; \frac{1}{2}$	≈ 400	n, t, α	2, 3, 7, 12, 16, 18, 32
9.85	$\frac{3}{2}^-; \frac{1}{2}$	≈ 1200	n, α	7, 10, 29
11.24 ± 30	$\frac{3}{2}^-; \frac{3}{2}$	260 ± 35	n, p	7, 8, 15, 31

^a See Table 7.2 in (1979AJ01) and Table 7.5.

^b See also reactions 7 and 13 for additional states.