

Table 7.2 from (1988AJ01): Energy levels of  ${}^7\text{Li}$

$E_x$ (MeV $\pm$ keV)	$J^\pi; T$	$\tau_m$ or $\Gamma_{c.m.}$ (keV)	Decay	Reactions
g.s.	$\frac{3}{2}^-; \frac{1}{2}$		stable	1, 2, 4, 5, 6, 10, 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, 42, 43, 44, 45, 46, 47, 48, 49
$0.477612 \pm 0.003$	$\frac{1}{2}^-; \frac{1}{2}$	$\tau_m = 105 \pm 3 \text{ fsec}^a$	$\gamma$	4, 5, 6, 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 24, 25, 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49
$4.630 \pm 9$	$\frac{7}{2}^-; \frac{1}{2}$	$\Gamma = 93 \pm 8 \text{ keV}$	t, $\alpha$	3, 4, 10, 11, 15, 16, 17, 18, 19, 20, 21, 25, 34, 35, 37, 42, 45
$6.68 \pm 50$	$\frac{5}{2}^-; \frac{1}{2}$	$875_{-100}^{+200}$	t, $\alpha$	3, 11, 15, 16, 17, 21, 35, 42, 48
$7.4595 \pm 1.0$	$\frac{5}{2}^-; \frac{1}{2}$	$89 \pm 7$	n, t, $\alpha$	2, 3, 7, 8, 9, 11, 15, 16, 17, 18, 21, 32, 34, 35, 42
$9.67 \pm 100$	$\frac{7}{2}^-; \frac{1}{2}$	$\approx 400$	n, t, $\alpha$	2, 3, 11, 16, 18, 21, 35
9.85	$\frac{3}{2}^-; \frac{1}{2}$	$\approx 1200$	n, $\alpha$	7, 32
$11.24 \pm 30$	$\frac{3}{2}^-; \frac{3}{2}$	$260 \pm 35$	n, p	7, 8, 34
13.7		$\approx 500$	n	13
$14.7^b$		$\approx 700$	n	13

<sup>a</sup> See Table 7.2 in (1979AJ01), Table 7.5 here and reaction 35.

<sup>b</sup> See also reactions 7, 9, 13, 20 and 33 for possible additional states.