

Table 7.4 from (1974AJ01): Levels of ${}^7\text{Li}(e, e'){}^7\text{Li}^*$ ^a

E_x (MeV)	$J^\pi; T$	Γ_{γ_0} (eV)	Type	$\Gamma_{\gamma_0}/\Gamma_W$	Refs.
0.48	$\frac{1}{2}^-; \frac{1}{2}$	$(2.8 \pm 1.6) \times 10^{-7}$	E2	18	(1971VA20)
		$(6.30 \pm 0.31) \times 10^{-3}$	M1	2.8	(1971VA20)
4.63 ± 0.05	$\frac{7}{2}^-; \frac{1}{2}$		E2 ^e		(1963BE26, 1963BE53, 1968HU1C, 1969HU05)
6.6 ± 0.1 ^b	$\frac{5}{2}^-; \frac{1}{2}$		E2		(1968HU1C, 1969HU05)
7.5 ± 0.08	$\frac{5}{2}^-; \frac{1}{2}$	0.6 ± 0.3	E2		(1963BA19, 1963BE26)
c		0.9 ± 0.4 ^f			(1964GR40) ^g
11.25 ^d	$\frac{3}{2}^-; \frac{3}{2}$	1.3 ± 0.4	M1	0.043	(1967AR1A)

^a For a summary of $B(E2\uparrow)$ measurements, see Table 7.6 in (1966LA04) and ${}^7\text{Li}$, the “GENERAL” section.

^b $\Gamma_{\text{c.m.}} = 875_{-100}^{+200}$ keV (1968HU1C, 1969HU05).

^c The excitation of ${}^7\text{Li}^*(10.5, 12.5, 14.0)$ is reported by (1963BA19).

^d $\Gamma_{\text{cm}} = 200 \pm 100$ keV (1967AR1A).

^e Purely longitudinal (1968HU1C, 1969HU05).

^f $0.1 \rightarrow 0.5$ eV, from ${}^7\text{Li}(\gamma, n)$ (B.L. Berman, private communication).

^g From ${}^7\text{Li}(\gamma, n)$.