

Table 7.5 from (2002TI10): Levels of ${}^7\text{Li}$ from ${}^7\text{Li}(e, e')$ ^a

E_x (MeV)	$J^\pi; T$	Γ_{γ_0} (eV)	Type
0.48	$\frac{1}{2}^-; \frac{1}{2}$	$(2.8 \pm 1.6) \times 10^{-7}$	C2
		$(6.30 \pm 0.31) \times 10^{-3}$	M1
4.63 ± 0.05 ^b	$\frac{7}{2}^-; \frac{1}{2}$		C2 ^c
6.6 ± 0.1 ^d	$\frac{5}{2}^-; \frac{1}{2}$		C2
7.5 ± 0.08	$\frac{5}{2}^-; \frac{1}{2}$	0.6 ± 0.3	C2
		0.9 ± 0.4 ^e	

^a For a summary of $B(E2\uparrow)$ measurements, see [Table 7.6 in \(1966LA04\)](#) and the General Tables for ${}^7\text{Li}$ located on our website at (www.tunl.duke.edu/NuclData/GeneralTables/7he.shtml). For references see ([1979AJ01](#), [1984AJ01](#)).

^b $B(E2\uparrow) [\frac{3}{2}^- \rightarrow \frac{7}{2}^-] = 17.5 e^2 \cdot \text{fm}^4$.

^c Purely longitudinal.

^d $\Gamma_{\text{cm}} = 875_{-100}^{+200}$ keV.

^e From ${}^7\text{Li}(\gamma, n)$. See also fit by ([1980BA34](#)).