

Table 6.5 from (1974AJ01): Levels of  ${}^6\text{Li}$  from  ${}^6\text{Li}(e, e')$  and  ${}^6\text{Li}(\gamma, \gamma')$  <sup>a</sup>

$E_x$ (MeV)	$J^\pi; T$	$\Gamma_{\gamma_0}$ (eV)	Type	$\Gamma_{\gamma_0}/\Gamma_w$	Refs.
$2.183 \pm 0.009$ <sup>g</sup>	$3^+; 0$	$(4.40 \pm 0.34) \times 10^{-4}$	E2	16.5	(1969EI06) <sup>f</sup>
		$(3.9 \pm 0.5) \times 10^{-4}$	E2	14.4	(1967AR1A)
$3.563 \pm 0.010$	$0^+; 1$	$8.31 \pm 0.36$	M1	8.8	(1969EI06) <sup>f</sup>
		$8.9 \pm 0.4$	M1	9.4	(1967AR1A)
		$8.1 \pm 0.5$ <sup>b</sup>	M1	8.6	(1969RA20)
$4.27 \pm 0.04$	$2^+; 0$	$(5.4 \pm 2.8) \times 10^{-3}$	E2	7.2	(1969EI06) <sup>h</sup>
$5.37$ <sup>c</sup>	$2^+; 1$	0.16	M1		(1963BA19)
e		$0.19 \pm 0.04$ <sup>d</sup>	M1		(1970HU09)

<sup>a</sup> See Table 6.6 in (1966LA04) for earlier references.

<sup>b</sup> From  ${}^6\text{Li}(\gamma, \gamma')$ .

<sup>c</sup>  $E_x = 5.32 \pm 0.05$  MeV,  $\Gamma = 330_{-40}^{+120}$  keV (1969HU05),  $E_x = 5.38 \pm 0.02$  MeV,  $\Gamma = 530 \pm 30$  keV (1970HU09),  $E_x = 5.41 \pm 0.04$  MeV,  $\Gamma = 540 \pm 30$  keV (1971NE03),  $\Gamma = 440 \pm 100$  keV (1969EI06). The excitation of this state shows a transverse angular dependence (1969EI06).

<sup>d</sup> Probable value, but  $0.08 \pm 0.04$  eV cannot be excluded: see (1970HU09).

<sup>e</sup> For possible transitions from higher states, see (1963BA19) and (1966LA04: Table 6.6). However, see discussion in reaction 10 (1973CA1M).

<sup>f</sup> See also (1968EI03).

<sup>g</sup>  $B(E2; 1^+ \rightarrow 3^+) = 24 e^2 \cdot \text{fm}^4$  (1971DI19; Coulomb excitation).

<sup>h</sup>  $\Gamma = 690 \pm 120$  keV.