

Table 6.2 from (1988AJ01): Energy levels of ${}^6\text{Li}$

E_x (MeV \pm keV)	$J^\pi; T$	Γ_{cm} (MeV)	Decay	Reactions
g.s.	$1^+; 0$		stable	1, 2, 3, 4, 7, 8, 9, 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, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54
2.186 ± 2	$3^+; 0$	0.024 ± 0.002	γ, d, α	1, 2, 3, 6, 7, 8, 12, 13, 14, 15, 16, 18, 19, 20, 21, 24, 25, 28, 29, 30, 31, 32, 33, 35, 37, 39, 40, 41, 42, 48, 49
3.56288 ± 0.10	$0^+; 1$	$(8.2 \pm 0.2) \times 10^{-6}$	γ	1, 3, 11, 12, 13, 15, 16, 17, 18, 20, 29, 31, 32, 33, 35, 37, 54
4.31 ± 22	$2^+; 0$	$1.7 \pm 0.2^{\text{a}}$	γ, d, α	1, 6, 12, 13, 15, 16, 24, 31, 35, 48
5.366 ± 15	$2^+; 1$	0.540 ± 0.020	$\gamma, \text{n}, \text{p}, \alpha$	1, 12, 15, 31, 32, 33, 35
5.65 ± 50	$1^+; 0$	1.5 ± 0.2	d, α	6, 15, 33, 35
(15.8)	$3^+; 0$	17.8 ± 0.8	d, α	6
21.0	$2^-; 1$	broad	$\text{t}, {}^3\text{He}$	1
21.5	$0^-; 1$	broad	$\text{t}, {}^3\text{He}$	1
(23 ± 2000)	$4^+; 0$	12 ± 2	d, α	1, 6
25.0 ± 1000	$4^-; 1$	≈ 4	$\gamma, \text{n}, \text{t}, {}^3\text{He}$	1
$26.6 \pm 400^{\text{b}}$	$3^-; 0$	broad	$\gamma, \text{n}, \text{d}, \text{t}, {}^3\text{He}, \alpha$	1
(31)	(3^+)	broad	$\text{d}, \text{t}, {}^3\text{He}, \alpha$	1

^a See also Tables 6.4 and 6.5.

^b See also Table 6.3. For other possible states at high E_x see reactions 6, 31, 33 and 38.