

Table 6.4 from (2002TI10): Energy levels of ${}^6\text{Li}$

E_x (MeV \pm keV) ^a	$J^\pi; T$	Γ_{cm} (MeV) ^a	Decay	Reactions
g.s.	$1^+; 0$		stable	3, 4, 5, 6, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, 57, 59, 60, 61, 64, 67
2.186 ± 2	$3^+; 0$	0.024 ± 0.002	γ, d, α	3, 4, 5, 8, 9, 10, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 29, 30, 33, 34, 36, 37, 38, 39, 42, 44, 45, 46, 47, 48, 49, 55, 57
3.56288 ± 0.10	$0^+; 1$	$(8.2 \pm 0.2) \times 10^{-6}$	γ	3, 5, 12, 15, 17, 18, 20, 21, 22, 23, 25, 34, 37, 38, 39, 42, 44, 67
4.312 ± 22 ^b	$2^+; 0$	1.30 ± 0.10 ^b	γ, d, α	3, 8, 17, 18, 20, 21, 29, 37, 39, 42, 55
5.366 ± 15	$2^+; 1$	0.541 ± 0.020 ^b	$\gamma, \text{n}, \text{p}, \alpha$	3, 17, 20, 37, 38, 39
5.65 ± 50	$1^+; 0$	1.5 ± 0.2	d, α	8, 20, 39, 42
17.985 ± 25 ^{b, c, e}	$2^-; 1$ ^b	3.012 ± 0.007 ^b	$\gamma, \text{t}, {}^3\text{He}$	3
24.779 ± 54 ^{b, c, f}	$3^-; 1$ ^b	6.754 ± 0.110 ^b	$\gamma, \text{n}, \text{t}, {}^3\text{He}$	3, 8
24.890 ± 55 ^{b, c}	$4^-; 1$ ^b	5.316 ± 0.112 ^b	$\gamma, \text{n}, \text{t}, {}^3\text{He}$	3
26.590 ± 65 ^{b, c, g} d	$2^-; 1$ ^{b, g}	8.684 ± 0.125 ^{b, g}	$\gamma, \text{n}, \text{d}, \text{t}, {}^3\text{He}$	3, 8

^a See also [Table 6.12](#).

^b Newly adopted in this evaluation or revised from the previous evaluation ([1988AJ01](#)).

^c See remarks under [reaction 3](#), and see [Table 6.5](#).

^d For possible states at high E_x see [reactions 8, 37, 39](#) and [45](#) and [Table 6.9](#).

^e $E_x = 17.985 \pm 25$ was previously reported in ([1988AJ01](#)) as $E_x = 21.0$ MeV.

^f $E_x = 24.779 \pm 54$ MeV was previously reported as $E_x = 26.6 \pm 0.4$ MeV with $T = 0$ in ([1988AJ01](#)). See ([1990MO10](#)).

^g ([1990MO10](#)).