

Table 8.2 from (84AJ01): Energy levels of ${}^8\text{Li}$ ^a

E_x (MeV \pm keV)	$J^\pi; T$	τ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
g.s.	$2^+; 1$	$\tau_{1/2} = 838 \pm 6$ msec	β^-	1, 2, 3, 7, 9, 10, 12, 13, 14, 15, 16, 18, 19, 20
0.9808 ± 0.1	$1^+; 1$	$\tau_m = 12 \pm 4$ fsec	γ	2, 3, 7, 8, 10, 11, 12, 13, 14, 18, 19, 20
2.255 ± 3	$3^+; 1$	$\Gamma = 33 \pm 6$ keV	γ, n	2, 3, 4, 10, 12, 13, 14, 18, 20
3.21	$1^+; 1$	≈ 1000	n	5, 8
5.4	$(0, 1)^+; 1$	≈ 650	n	4, 5, 8
6.1 ± 100	$(3); 1$	≈ 1000	n	4, 5
6.53 ± 20	$4^+; 1$	35 ± 15	n	2, 4, 13, 14, 18
7.1 ± 100		≈ 400	n	4
(9)		≈ 6000		12
10.8222 ± 5.5	$0^+; 2$	< 12		17

^a For additional states see [reaction 5](#).