Table 8.2 from (1988AJ01): Energy levels of ^{8}Li [a]

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

[a] For additional states see reaction 4.