

Table 9.1 from (2004TI06): Energy levels of ${}^9\text{Li}$ ^a

E_x (MeV \pm keV)	$J^\pi; T$	$\tau_{1/2}$ or $\Gamma_{\text{c.m.}}$ (keV)	Decay	Reactions
g.s.	$\frac{3}{2}^-; \frac{3}{2}$	$\tau_{1/2} = 178.3 \pm 0.4$ msec	β^-	1, 3, 4, 5, 6, 7, 8, 9, 10
2.691 ± 5	$\frac{1}{2}^-$	$\Gamma = 100 \pm 30$ ^b	(γ)	4, 6, 7, 10
4.296 ± 15	$(\frac{5}{2}^-)$			4, 10, 11
5.38 ± 60				4
6.43 ± 15				4, 10

^a The first evidence for $T = \frac{5}{2}$ states of ${}^9\text{Li}$ has been obtained from ${}^8\text{He} + \text{p}$ elastic scattering (see [reaction 2](#)).

^b From [reaction 4](#). See also [reaction 11](#).