

Table 6.6 from (74AJ01):
Levels of ${}^6\text{Li}$ from (p, p'), (d, d'), ${}^9\text{Be}(p, \alpha)$, ${}^7\text{Li}(d, t)$

Reaction	Refs.	E_x (MeV \pm keV)	$\Gamma_{\text{c.m.}}$ (keV)
${}^6\text{Li}(p, p'){}^6\text{Li}^*$	(MA68D) ^a	2.14 ± 50	
${}^6\text{Li}(p, p'){}^6\text{Li}^*$	(BR57A)	2.188	25.4
${}^6\text{Li}(d, d'){}^6\text{Li}^*$	(BR57A)	2.186	24.5
${}^9\text{Be}(p, \alpha){}^6\text{Li}$	(BR57A)	2.192	29
${}^9\text{Be}(p, \alpha){}^6\text{Li}$	(GR63D)	2.19 ± 20	< 35
${}^7\text{Li}(d, t){}^6\text{Li}$	(BR57A)	(2.18)	< 27
mean	(BR57A)	2.188 ± 6	26.3
${}^6\text{Li}(p, p'){}^6\text{Li}^*$	(MA68D)	3.49 ± 50	
${}^6\text{Li}(p, p'){}^6\text{Li}^*$	(BR57A)	3.559	< 5
${}^9\text{Be}(p, \alpha){}^6\text{Li}$	(BR57A)	3.561	
${}^9\text{Be}(p, \alpha){}^6\text{Li}$	(GR63D)	3.55 ± 20	< 35
mean	(BR57A)	3.560 ± 6	< 5
${}^6\text{Li}(p, p'){}^6\text{Li}^*$	(MA68D)	4.45 ± 80	300 ± 50
${}^9\text{Be}(p, \alpha){}^6\text{Li}$	(GR63D)	4.40 ± 120	350 ± 150
${}^6\text{Li}(p, p'){}^6\text{Li}^*$	(HA65)	4.4 ± 200	≈ 600
${}^6\text{Li}(d, d'){}^6\text{Li}^*$	(BR74)	4.32 ± 40	1820 ± 110
${}^6\text{Li}(p, p'){}^6\text{Li}^*$	(MA68D)	5.28 ± 80	300 ± 50
${}^9\text{Be}(p, \alpha){}^6\text{Li}$	(GR63D)	5.32 ± 60	280 ± 60
${}^6\text{Li}(p, p'){}^6\text{Li}^*$	(HA65)	5.4 ± 200	≈ 1000
${}^6\text{Li}(p, p'){}^6\text{Li}^*$	(HA65)	≈ 6.5	
${}^6\text{Li}(p, p'){}^6\text{Li}^*$	(HA65)	≈ 7.5	

^a (MA68D) also report a state at $E_x = 4.03 \pm 0.08$ MeV, $\Gamma = 1.5 \pm 0.2$ MeV.