

Table 6.3 from (84AJ01): Levels of ${}^6\text{Li}$ from ${}^4\text{He}(\text{d}, \text{d}){}^4\text{He}$ ^a

E_{d} (MeV)	$J^{\pi}; T$	E_{x} (MeV)	$\Gamma_{\text{c.m.}}$ (MeV)	Γ_{d}/Γ ^b	γ_{d}^2 ^c
1.070 ± 0.003 ^d	$3^+; 0$	2.187			0.27
4.34 ± 0.04	$2^+; 0$	4.36	1.32 ± 0.04	0.967	0.511
5.7 ± 0.1 ^e	$1^+; 0$	5.3	1.9 ± 0.1	0.74	0.34
(19.3 ± 1.3)	$3^+; 0$	(14.3)	26.7 ± 1.0	0.34	1.69
(21.6 ± 1.1)	$3^+; 0$	(15.8)	17.8 ± 0.8	0.76	0.77
33 ± 2	4^+	23	12 ± 2	0.15	0.14
34 ± 5	3^-	24	16 ± 3	0.30	0.24
39_{-9}^{+3}	2^-	27	22 ± 7	0.43	0.42

^a The data in this table are mostly from the S -matrix analysis of (JE83A). The results are unique up to $E_{\text{d}} = 15$ MeV. See also Table 6.4 in (74AJ01) and Table 6.3 in (79AJ01).

^b The errors in Γ_{d}/Γ are typically 0.03.

^c In units of the Wigner limit $\gamma_{\text{W}}^2 = 2.93$ MeV for a radius of 4.0 fm. I am indebted to W. Gruebler for pointing out an error to me.

^d $E_{\text{d}} = 1067 \pm 3$ keV, $\Gamma = 20 \pm 2.8$ keV (BA79CC).

^e 6.26 MeV (HA77Q; R -matrix analysis): $E_{\text{x}} = 5.65$ MeV.