

${}^6\text{Li}(\text{p,p}),(\text{p},2\text{p}),(\text{p},\text{p}\alpha)$ 2002Ti10,1995Sk01,1989Ha18

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Hu, Tilley, Kelley, Godwin et al.		NP A708, 3 (2002)	23-Aug-2001

1963Ha53: ${}^6\text{Li}(\text{p,p})$ E=2.4-12 MeV, measured $\sigma(\theta)$. ${}^7\text{Be}$ deduced levels.

1963Mc09: ${}^6\text{Li}(\text{p,p})$ E=0.45-2.9 MeV, measured $\sigma(\theta)$. ${}^7\text{Be}$ deduced levels.

1967Ha08: ${}^6\text{Li}(\text{p,p}')$ E=4.26-9.40 MeV, measured $\sigma(E,\theta)$. ${}^7\text{Be}$ deduced levels, J, π , L, T level- Γ , S.

1968Va02: ${}^6\text{Li}(\text{p,pd}),(\text{p,p}\alpha),(\text{p,d}\alpha)$, E=9,10 MeV, measured $\sigma(E_p, E_d, E_\alpha, \theta_d, \theta_\alpha)$.

1969Pe22: ${}^6\text{Li}(\text{pol p,p})$ E=1.2-3.2 MeV, measured proton polarization, deduced phase shifts for E=0.5-5.6 MeV.

1977NeZX: ${}^6\text{Li}(\text{p,p}),(\text{p,p}')$ E=14 MeV, measured σ . ${}^7\text{Be}$ deduced resonance.

1983Vd03: ${}^6\text{Li}(\text{p},2\text{p})$ E=47-70 MeV, measured $\sigma(\theta_1, \theta_2)$ vs relative, summed proton energies.

1989Ha18: ${}^6\text{Li}(\text{pol p,p})$ E=1.6-10 MeV, measured $\sigma(E,\theta)$, $A(E,\theta)$. ${}^6\text{Li}(\text{pol p,p}')$ E=5.9 MeV, measured $\sigma(\theta)$, $A(\theta)$. ${}^7\text{Be}$ deduced resonances. γ , $\gamma(\text{P})$, J, π .

1995Sk01: ${}^6\text{Li}(\text{pol p,p})$ E=0.4-2.2 MeV, measured analyzing power A_Y , $\sigma(\theta)$. ${}^7\text{Be}$ deduced resonance parameters Γ , Γ_p , J, π .

 ${}^7\text{Be}$ Levels

E(level)	J^π	$T_{1/2}$	Comments
7.2×10^3 1	$5/2^-$	0.40 MeV 5	$\Gamma_p=0.19$ MeV 5
9.29×10^3 31		1.93 MeV 96	$\Gamma_p=0.47$ MeV 33
9.81×10^3 12		2.21 MeV 29	$\Gamma_p=1.65$ MeV 25
			Γ : 1988Aj01 adopted $\Gamma \approx 1.8$ MeV based on (p,p'); 2002Ti10 has continued to accept $\Gamma \approx 1.8$ MeV rather than accept those presented here which are from ${}^6\text{Li}+\text{P}$ phase shift analysis.
10.00×10^3 17	$3/2^-$	1.68 MeV 58	$\Gamma_p=0.42$ MeV 14
$\approx 11. \times 10^3$			
12.4×10^3 13		5.0 MeV 32	$\Gamma_p=1.8$ MeV 10