

${}^7\text{Li}(\text{p,p})$ 2002Ti10,1984Aj01,1974Aj01

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

- 1965GI03: ${}^7\text{Li}(\text{p,p}),(\text{p,p}')$ E=2.5-12 MeV, measured $\sigma(E,\theta)$, ${}^7\text{Li}$ deduced levels, J, π , level- Γ .
 1965Ha17: ${}^7\text{Li}(\text{p,p}')$ E=185 MeV, measured $\sigma(E_p,\theta)$, ${}^7\text{Li}$ deduced levels, level- Γ .
 1968Ma02: ${}^7\text{Li}(\text{p,p}')$ E=50 MeV, measured proton spectrum. ${}^7\text{Li}$ deduced levels.
 1971Ma44: ${}^7\text{Li}(\text{p,p}')$ E=49.75 MeV, measured $\sigma(\theta)$, $p(\theta)$.
 1976Do10: ${}^7\text{Li}(\text{P,P}'\gamma)$ E=4.0, 4.23, 4.40 MeV, measured DSA, ${}^7\text{Li}$ levels deduced Γ .
 1982Pe06: ${}^7\text{Li}(\text{p,p}),(\text{p,p}')$ E=24.4 MeV, measured $\sigma(E_{p'})$, $\sigma(\theta)$. ${}^7\text{Li}(\text{p,p}),(\text{p,p}'),(\text{p,n})$ E=24-50 MeV, analyzed data.
 1987To06: ${}^7\text{Li}(\text{pol p,p}')$ E=65 MeV, measured $\sigma(E_{p'})$, $\sigma(\theta_{p'},E_{p'})$, analyzing power.
 1989To04: ${}^7\text{Li}(\text{pol p,p}')$ E=65, 80 MeV, measured $\sigma(\theta)$, A(θ).
 1991GI01: ${}^7\text{Li}(\text{pol p,p}),(\text{pol p,p}')$ E=200 MeV, measured $\sigma(\theta)$, $A_Y(\text{THETA})$.⁶, ${}^7\text{Li}$ deduced radial density shape differences.

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

E(level)	J $^\pi$	T _{1/2}	Comments
0	3/2 ⁻		T=1/2
0.41×10 ³ 5	1/2 ⁻		T=1/2 B(E2) \uparrow =10.5×10 ⁻⁴ 20
4.56×10 ³ 5	7/2 ⁻	160 keV 50	T=1/2 B(E2) \uparrow =28×10 ⁻⁴ 5
5.48×10 ³ ? 5			
6.45×10 ³ 5		500 keV 100	B(E2) \uparrow =4.5×10 ⁻⁴ 23
7.57×10 ³ 10			
9.56×10 ³ 10		450 keV 50	
11.17×10 ³ 10		500 keV 50	
12.50×10 ³ 10		200 keV 50	
13.57×10 ³ 10		750 keV 50	