

${}^6\text{Li}(\text{p},\text{n}), {}^6\text{Li}(\text{p},\text{pn})$ 2002Ti10,1990Ra08

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

- 1967Ho01: ${}^6\text{Li}(\text{p},\text{n})$ E=1.8-11 MeV, measured $\sigma(E)$. ${}^6\text{Be}$ deduced ground-state level- Γ .
 1968Ba41: ${}^6\text{Li}(\text{p},\text{n})$ E=30, 50 MeV, measured $\sigma(E, E_n, \theta)$. ${}^6\text{Be}$ deduced level.
 1968Wa11: ${}^6\text{Li}(\text{p},\text{n})$ E=8-18 MeV, measured $\sigma(E, E_n, \theta)$. ${}^6\text{Be}$ deduced level.
 1972Ar22: ${}^6\text{Li}(\text{p},\text{n})$ E=17.8 MeV, measured $\sigma(E_n)$. ${}^6\text{Be}$ deduced level- Γ .
 1974Ar05: ${}^6\text{Li}(\text{p},\text{n})$ E=14.9, 17.8 MeV, measured σ .
 1974Mi05: ${}^6\text{Li}(\text{p},\text{pn})$ E=46 MeV, measured $\sigma(E_p, \theta)$.
 1977Ri07: ${}^6\text{Li}(\text{p},\text{n})$ E=800 MeV, measured σ .
 1977Wa05: ${}^6\text{Li}(\text{p},\text{pn})$ E=45, 47 MeV, measured excitation energy, energy sharing spectra. PWIA, DWIA calculation.
 1979Mo16: ${}^6\text{Li}(\text{p},\text{n})$ E=144 MeV, measured $\sigma(\theta)$.
 1980Ba62: ${}^6\text{Li}(\text{p},\text{n})$ E=14.9, 17.8 MeV, measured $\sigma(\theta)$. Triangle diagram analysis.
 1986Ki12: ${}^6\text{Li}(\text{p},\text{n})$ E=800 MeV, measured $\sigma(\theta)$, $\sigma(\theta)$ vs neutron momentum. ${}^6\text{Be}$ deduced Gamow-Teller, Fermi transition strengths.
 1988Pa27: ${}^6\text{Li}(\text{p},\text{pn})$ E=70 MeV, measured $\sigma(\theta_p, \theta_n, E_p, E_n)$, deduced neutron separation energy.
 1990Mi10: ${}^6\text{Li}(\text{p},\text{n})$ E=280 MeV, measured $\sigma(\theta)$, deduced isospin symmetry test.
 1990Ra08: ${}^6\text{Li}(\text{p},\text{n}), (\text{pol p},\text{n})$ E=60-200 MeV measured $\sigma(\theta)$. ${}^6\text{Be}$ deduced Gamow-Teller transition strength. DWIA analysis.
 1995Wa16: ${}^6\text{Li}(\text{pol p},\text{n})$ E=295 MeV, measured $\sigma(\theta)$, polarization coefficient vs excitation energy, deduced spin-flip strength, effective tensor interactions related features.
 1995Ya12: ${}^6\text{Li}(\text{p},\text{n})$ E=186 MeV, measured $\sigma(\theta, E_n)$, deduced quasifree reaction contribution In giant resonance, $\Delta L = 1$ transitions energy spectra.
 1999Wa08: ${}^6\text{Li}(\text{pol p},\text{n})$ E=346 MeV, measured σ , $\sigma(E_n, \theta=22^\circ)$, analyzing power, induced polarization, polarization transfer coefficients, deduced longitudinal and transverse spin response function.

 ${}^6\text{Be}$ Levels

E(level)	J^π	$T_{1/2}$	Comments
0	0^+	95 keV 28	T=1
1.69×10^3	5	1.15 MeV 6	E(level): average of 1.82 MeV 12, 1.63 MeV 16 and 1.67 MeV 5 (1974Aj01) table 6.8. Γ : average of 1.16 MeV 21, 1.18 MeV 7 and 0.85 MeV 20 (1974Aj01) table 6.8.
15.5×10^3	2		
24×10^3	2		