^{6}Li(n,n) 2002Ti10

History

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

1967Co01: ^{6}Li(n,n),(n,n′) E=10 MeV, measured $\sigma(E_{N'},\theta)$.
1969Pr04: ^{6}Li(n,n′) E=4.1 to 7.9 MeV, measured σ(E). ^{7}Li deduced levels, J, π, L, T, level-Γ, γ^2.
1975Ho01: ^{6}Li(pol n,n) E=2-5 MeV, measured A(E,θ). ^{7}Li levels deduced level-Γ. R-matrix analysis.
1979Kn01: ^{6}Li(n,n) E=4-7.5 MeV, measured $\sigma(\theta)$.
1981Ch12: ^{6}Li(n,n),(pol n,n) E=2-4 MeV, measured A(E,θ), $\sigma(E_\theta)$. ^{7}Li resonances deduced Γ, J, π.
1982Sm02: ^{6}Li(n,n) E=0.1-4.8 MeV measured σ(total), $\sigma(\theta)$, ^{6}Li(n,n′) E=3.5-4 MeV, measured $\sigma(\theta)$. R-matrix interpretation.
1986Ch24: ^{6}Li(n,n),(n,n′) E=14.2 MeV, measured $\sigma(\theta)$.
1988Ha25: ^{6}Li(n,n),(n,n′) E=24 MeV, measured $\sigma(\theta)$.

^{7}Li Levels

E(level)	J^π	$T_{1/2}$	Comments
7459.5 *10*			σ=11.2 b *2*.
≈9850?	$3/2^-$	≈1.20 MeV	
10.25×10^3 *10*	$3/2^-$	1.40 MeV *10*	T=1/2
11.19×10^3 *5*	$3/2^-$	0.27 MeV *5*	T=3/2