^{6}Li(^{3}He,γ),(^{3}He,n),(^{3}He,p)   1988Aj01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu, J. L. Godwin, et al.	NP A745 155 (2004)	31-Mar-2004

1978Al37: ^{6}Li(^{3}He,γ) E=0.5-1.3 MeV, measured σ(E). ^{9}B deduced level, T.

1967Va24: ^{6}Li(^{3}He,n) E=4.0-5.7 MeV, measured σ(E,E$_N$,θ).

1973Ma24: ^{6}Li(^{3}He,nγ) E=8.9-26.5 MeV, measured σ(E).

1975Mc02: ^{6}Li(^{3}He,n) E=THRESH.$-$7.5 MeV, measured σ(E). Deduced σ(E).

1965Fl03: ^{6}Li(^{3}He,p) E=5-17 MeV, measured σ(E,E$_P$,θ_P).

1969Nu01: ^{6}Li(^{3}He,p) E=8 MeV, measured σ(θ).

1969Vi05: ^{6}Li(^{3}He,p) E<2 MeV, measured σ(E,E$_P$,θ), σ(E$_P$,E$_\alpha$). ^{9}B deduced resonance, J, π.

1977Ir01: ^{6}Li(^{3}He,p) E=14 MeV, measured σ(θ), proton polarization.

1978Al37: ^{6}Li(^{3}He,p) E=0.5-1.3 MeV, measured σ(E). ^{9}B deduced level, T.

1980El02: ^{6}Li(^{3}He,p) E=0.5-1.85 MeV, measured σ(E(^{3}He),θ).

1995Ba24: ^{6}Li(pol. ^{3}He,P) E=4.6 MeV, measured σ(θ), analyzing power vs θ. DWBA analysis.

^{9}B Levels

E(level)	J$^{\pi}$	T$_{1/2}$	Comments
0.0			
2345.			
17076.			T=3/2
			E(level): from E(^{3}He)=765 keV 5 (1978Al37). The resonance peak cross section corresponds to 17111 keV and is observed In γ_0, g$_1$ and 2α channels (2α following ^{8}Be*(16.6) decay).
17.6×10^3	3/2$^-$,5/2$^-$	0.25 MeV	E(level): Γ from (1956Sc01); a resonance At E(^{3}He)=1.6 MeV. J$^{\pi}$ from (1969Vi05).
18.6×10^3		1.5 MeV	E(level): Γ from (1956Sc01); a resonance At E(^{3}He)=3.0 MeV.

γ(^{9}B)

E$_\gamma$†	E$_i$(level)	E$_f$
14718 11	17076.	2345.
17059 4	17076.	0.0

† From level energy difference; recoil correction applied.

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Level Scheme

${}^{9}_{5}$B${}_{4}$