^{6}**Li(d,α), ^{6}Li(d,pα)**   **2004Ti06**

History

Type	Author	Citation	Literature Cutoff Date
Update	J. H. Kelley, J. L. Godwin, C. G. Sheu	ENSDF	31-Mar-2004

1967Cl06: ^{6}Li(d,α) E=3 to 12 MeV, measured σ(E,θ). ^{8}Be deduced levels, J, π.
1969Bl14: ^{6}Li(d,α) E=6.33-7.14 MeV, measured σ(E,θ). ^{8}Be deduced resonance, Γ-level.
1971Ne12: ^{6}Li(pol. d,α) E=0.4, 0.6, 0.8, 0.96 MeV, measured vector, tensor analyzing power. ^{8}Be deduced resonances, J, π.
1975Mc02: ^{6}Li(d,α) E=0.5-3.4 MeV, measured σ(E,θ).
1975Wi25: ^{6}Li(d,α) E=425 keV, measured polarization.
1977El09: ^{6}Li(d,α) E=0.1-1.0 MeV, measured σ(E,θ).
1977Ri09: ^{6}Li(d,α) E=1.5-11.5 MeV, measured σ(E,θ), α(E,θ). ^{8}Be deduced resonance structure.
1977Mi13: ^{6}Li(d,pα) E=7.5, 10, 10.5 MeV, measured (E,E1,E2,θ_1,θ_2). Deduced reaction mechanism.
1979Bo33: ^{6}Li(d,α) E=100-180 keV, measured σ(E). Deduced astrophysical σ.
1979Ri03: ^{6}Li(pol. d,α) E=5.0-6.5, 8.0-10.0 MeV, measured A$_Y$(THETA,E), A$_{yy}$(THETA,E).
1981Go19: ^{6}Li(d,α) E$_{C.M.}$=35-110 keV, measured σ(E).
1986So07: ^{6}Li(pol. d,α), E$\approx$6.9-7.05 MeV, measured σ(θ), T$_{20}$(THETA), T$_{21}$(THETA), T$_{22}$(THETA), iT$_{11}$(THETA). ^{8}Be deduced isospin forbidden decay, channel spin dependent γ ratio.
1989Ba88: ^{6}Li(d,α) E=18.2-36.8 MeV, measured σ(θ). Deduced model parameters.
1990Sa47: ^{6}Li(pol. d,α) E=10 MeV, analyzed tensor analyzing power data. ^{6}Li deduced D-state component.
1992En01: ^{6}Li(d,α) E$_{C.M.}$=10-1004 keV, measured σ(θ,E). Deduced astrophysical S-factor vs. E, electron screening potential energy.
1993Ce02: ^{6}Li(d,α) E$_{C.M.}$=20-135 keV, measured spectra, yield ratios.
1994Ar24: ^{6}Li(d,α) E=18.2-44.5 MeV, measured σ(θ). Deduced σ(E). ^{8}Be deduced possible level.
1997Cz01: ^{6}Li(d,α) E=50-180 keV, measured σ(E), astrophysical S-factor vs. E. Deduced subthreshold resonance contribution.
2002Ba77: ^{6}Li(d,α) E=low, analyzed σ. Deduced electron screening potential.
2002Sa09: ^{6}Li(d,α) E$_{C.M.}$=2.3-3.5 MeV. Deduced σ, astrophysical S-factor.
2003Pi13: ^{6}Li(d,α) E(C.M.)$\approx$10-1000 keV, analyzed astrophysical S-factors, electron screening potential energy.
2003Sp02: ^{6}Li(d,α) E=low, analyzed σ, astrophysical S-factors.
2004Ka13: ^{6}Li(d,α) E=30-75 keV, measured thick-target yields for PdLi and AuLi targets. Deduced environmental effects.

^{8}Be Levels

E(level)	J$^{\pi}$	T$_{1/2}$	Comments
22.24×10^3 2	2$^+$		E(level): from E$_{res}$=−0.05 MeV 2.
22.8×10^3		$\approx$600 keV	E(level): from E$_{res}$=0.8 MeV and $\Gamma_{lab}$$\approx$800 keV.
25.1×10^3	2$^+$	$\approx$1.05 MeV	E(level): from E$_{res}$=3.75 MeV and $\Gamma_{lab}$$\approx$1.4 MeV.
25.5×10^3	4$^+$		
27.49×10^3	0$^+$		T=2
$\approx$28.×10^3			
$\approx$41.×10^3?			
$\approx$43.×10^3?			
$\approx$50.×10^3?			