^{6}Li(α,2α) 1983Go07,1984Aj01

History

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

1968Do13,1969Do02: ^{7}Li(α,2α) E=25 MeV, measured σ(E$_\alpha$,E$_d$,θ).
1969Pi11: ^{7}Li(α,2α) E=55 MeV, measured σ(E$_{\alpha_1}$,E$_{\alpha_2}$,θ_1,θ_2).
1969Pu01: ^{7}Li(α,2α) E=50-80 MeV, measured σ(E,E$_\alpha$,θ). Deduced reaction mechanism.
1970Ga14: ^{7}Li(α,2α) E=42.8,55 MeV, measured σ(θ).
1971De15: ^{7}Li(α,2α) E=37.5,43.5 MeV, measured σ(E$_\alpha$,θ_α).
1970Ja17,1971Wa19: ^{7}Li(α,2α) E=50.4,59.0,60.5,70.3,79.6 MeV, measured σ(E,E$_{\alpha_1}$,E$_{\alpha_2}$,θ_{α_1},θ_{α_2}).
1975Do11: ^{7}Li(α,2α) E=700 MeV, measured α momentum distribution.
1979Do04: ^{7}Li(α,2α) E=700 MeV, measured absolute σ(E$_{\alpha_1}$,E$_{\alpha_2}$,θ_{α_1},θ_{α_2}).
1979Su14,1980Zh05,1981Ji05,1982Ch28: ^{7}Li(α,2α) E=18 MeV, measured α-α(θ). Deduced quasifree scattering effect. PWIA.
1982We15: ^{7}Li(α,2α) E=8,8.5 MeV, analyzed σ(E1,θ_1,θ_2). Deduced final state interaction effects.
1983Go07: ^{7}Li(α,2α) E=6.6-13 MeV, measured σ(θ_{α_1},θ_{α_2}) vs. arc length. PWIA analysis.
1985Ko29: ^{7}Li(α,2α) E=27.2 MeV, measured σ(E$_{\alpha_1}$,θ_{α_1},θ_{α_2}). Deduced reaction mechanism.
1988Wa29,1989Wa26: ^{7}Li(α,2α) E=118 MeV, measured (P+N) spectral function. PWIA.
1992Ok01,1992Wa18: ^{7}Li(α,2α) E=77-119 MeV, measured σ(θ_{α_1},θ_{α_2},E$_{\alpha_1}$). DWIA.

^{10}B Levels

E(level)
8.67×10^3
9.65×10^3?
10.32×10^3?
11.02×10^3?
11.65×10^3?