^{7}Li(α,α),(α,α') 2002Ti10

History

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

1969Ma13: ^{7}Li(α,α),(α,α') E=29.4 MeV, measured $\sigma(E_{\alpha'},\theta)$, ^{7}Li levels deduced deformation parameters.
1970La14: ^{7}Li(α,tα) E=50 MeV, measured $\sigma(E_t,\theta_t)$, $\sigma(E_t,E_\alpha,\theta_t,\theta(\alpha))$. ^{7}Li deduced levels.
1973Ke13: ^{7}Li(α,α),(α,α') E=8.6-12.5 MeV, 17.0-22.5 MeV, measured $\sigma(E,E_{\alpha'},\theta)$. Triton-exchange analyzed.
1985Di08: ^{7}Li(α,α') E=35.3 MeV, measured $\sigma(E_\alpha)$, $\sigma(\theta)$. ^{7}Li levels deduced deformation, isoscalar B(λ). Collective coupled-channels analysis.
1987Bu27: ^{7}Li(α,α') E=50.5 MeV, measured σ.
1989Dm02: ^{7}Li(α,α't) E=80 MeV, measured correlation angles. ^{7}Li level deduced M-substate density matrix.
1991Ko41: ^{7}Li(α,α') E=27.2 MeV, measured target polarization tensor vs. θ. Deduced reaction mechanism.
1996Bu06: ^{7}Li(α,α),(α,α') E=50.5 MeV, measured $\sigma(\theta)$, ^{7}Li deduced αd-,αt- cluster spectroscopic factors.

^{7}Li Levels

E(level)
0
0.48×10^{3}
4.63×10^{3}
6.68×10^{3}
7.46×10^{3}
9.67×10^{3}