

${}^6\text{Li}(\alpha, \alpha)$ **2002Ti10**

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

- 1972Ba89: ${}^6\text{Li}(\alpha, \alpha)$ $E_\alpha=166$ MeV, measured angular distribution $\sigma(\theta)$, analyzed pick-up contribution.
- 1975Be11: ${}^6\text{Li}(\alpha, \alpha), (\alpha, \alpha')$ $E=34.75, 39.75, 45$ MeV, measured angular distributions from 20° to 160° (C.M.).
- 1979Eg01: ${}^4\text{He}(\text{pol } {}^6\text{Li}, {}^6\text{Li})$ $E=15.1\text{-}22.7$ MeV, measured $\sigma(\theta)$, $A(\theta)$; deduced spin orbit effects In optical model.
- 1987Bu27: ${}^6\text{Li}(\alpha, \alpha')$ $E=50.5$ MeV, measured σ .
- 1992Ko19: ${}^6\text{Li}(\alpha, \alpha')$ $E=80$ MeV, measured target tensor polarization. Realistic nucleon-nucleon interaction, DWBA.
- 1992Sa01: ${}^6\text{Li}(\alpha, \alpha), (\alpha, \alpha')$ $E=50$ MeV, measured $\sigma(\theta)$, $\sigma(\theta_\alpha, E_\alpha)$, deduced breakup cluster recombination role In exit channel.
DWBA analysis.
- 1993Ko33: ${}^6\text{Li}(\alpha, \alpha')$ $E=80$ MeV, measured tensor polarization vs θ following target breakup. DWBA, shell model analyses.
- 1994Sa32: ${}^6\text{Li}(\alpha, \alpha')$ $E=40$ MeV, measured continuum $\sigma(E_\alpha, \theta_\alpha)$, deduced onset of Coulomb dissociation, ${}^6\text{Li}$ breakup critical momentum transfer value features.
- 1996Bu06: ${}^6\text{Li}(\alpha, \alpha), (\alpha, \alpha')$ $E=50.5$ MeV, measured $\sigma(\theta)$, ${}^6\text{Li}$ deduced $\alpha\text{d-}, \alpha\text{t-}$ cluster spectroscopic factors, DWBA models analyses.
- 1999Dm02: ${}^6\text{Li}(\alpha, \alpha')$ $E=27.2$ MeV, measured charged particle energies, angular correlations and polarization tensors, coupled-channel calculations.

 ${}^6\text{Li}$ Levels

E(level)	J^π
0.0	
2.185×10^3	3^+