^{6}Li(^{7}Li,^{7}Be) 1996Ja11

History

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

1993Sa35: ^{6}Li(^{7}Li,^{7}Be) E=78, 82 MeV, measured $\sigma(\theta)$, σ(E(^{7}Be)). ^{6}He deduced soft dipole response evidence.
1995Sa18: ^{6}Li(^{7}Li,^{7}Be) E=78 MeV, measured $\sigma(\theta)$. DWBA, coupled reaction channels analysis.
1996Ja11: ^{6}Li(^{7}Li,^{7}Be) E=350 MeV, measured $\sigma(\theta)$. ^{6}He deduced resonances, J, π. Microscopic finite-range DWBA.
1999An13: ^{6}Li(^{7}Li,^{7}Be) E=350 MeV, measured particle spectra, angular distributions, E_{γ}, I_{γ}(THETA). ^{6}He deduced resonance features, spin-flip ratios, spin-flip enhancement, effective number of participating protons.
2000Na22: ^{6}Li(^{7}Li,^{7}Be) E=65 MeV/nucleon, measured σ(E,θ), (particle)γ-coin. ^{6}He deduced soft dipole resonance.
Energy:projectile:350 MeV.
$d\sigma/d\Omega$ At $\theta_{c.m.}$ AP 4.5°.

^{6}He Levels

E(level)	J^{π}	$T_{1/2}$	$d\sigma/d\Omega$ (mb/sr)
0.0	0^{+}		0.72 *8*
1.92×10^{3} *17*	2^{+}		0.25 *4*
5.6×10^{3} *3*	$(2^{+},1^{-},0^{+})$	12.1 MeV *11*	4.56 *48*
14.6×10^{3} *7*	$(1,2)^{-}$	7.4 MeV *10*	2.11 *23*
23.3×10^{3} *10*		14.8 MeV *23*	1.75 *19*