

$^{12}\text{C}(^6\text{Li},^6\text{Li})$ 1974Bi04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu		NP A968,71 (2017)	1-Jan-2017
1971Da33:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=30 MeV, measured $\sigma(\theta)$. Deduced optical model parameters.			
1972Ba52:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=28 MeV, measured $\sigma(\theta)$. Deduced optical potentials.			
1972Po07:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=4.5-13 MeV, measured $\sigma(E,\theta)$. Deduced optical model parameters.			
1972St34:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=30 MeV, analyzed $\sigma(\theta)$.			
1973Sc26:	$^{12}\text{C}(^6\text{Li},^6\text{Li}),(^6\text{Li},^6\text{Li}')$ E=34,36 MeV, measured $\sigma(\theta)$. Deduced optical model parameters, FRDWBA analysis.			
1974Bi04:	$^{12}\text{C}(^6\text{Li},^6\text{Li}),(^6\text{Li},^6\text{Li}')$ E=36.4,40.0 MeV, measured $\sigma(\theta)$. Deduced optical-model parameters, DWBA analysis. ^{12}C level deduced deformation parameters $\beta(L)$.			
1976Ch27:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=50.6 MeV, measured $\sigma(\theta)$. Deduced optical model parameters.			
1976Po02:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=4-13 MeV, measured $\sigma(E,\theta)$. Deduced optical potential.			
1976We10:	$^{12}\text{C}(\text{pol. } ^6\text{Li},^6\text{Li})$ E=20,22.8 MeV, measured $\sigma(\theta)$, analyzing power $A(\theta)$.			
1978Dr07:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=9 MeV, measured $\sigma(\theta)$.			
1978Me14:	$^{12}\text{C}(\text{pol. } ^6\text{Li},^6\text{Li})$ E=22.8 MeV, measured $\sigma(\theta)$, $A(\theta)$.			
1980Fu06:	$^{12}\text{C}(^6\text{Li},^6\text{Li}),(^6\text{Li},^6\text{Li}')$ E=20-36 MeV, measured $\sigma(E(^6\text{Li}),\theta)$. Deduced No evidence for resonant two-step α -exchange mechanism.			
1981GI03:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=90 MeV, measured $\sigma(\theta)$.			
1981Sc16:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=99 MeV, measured $\sigma(\theta)$.			
1982Co19:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=156 MeV, analyzed $\sigma(\theta)$. Deduced potential form dependence.			
1983Ru09:	$^{12}\text{C}(\text{pol. } ^6\text{Li},^6\text{Li})$ E=9, 19.2 MeV, measured $iT_{11}(\theta)$, $\sigma(\theta)$, ratio to $\sigma(\text{Rutherford})$ vs (θ) , $T_{20}(\theta)$.			
1984Vi02:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=24,30 MeV, measured $\sigma(\theta)$. Deduced optical model parameters.			
1985Cu04:	$^{12}\text{C}(^6\text{Li},^6\text{Li}),(^6\text{Li},^6\text{Li}')$ E=34 MeV, measured $\sigma(\theta)$. Deduced reaction mechanism.			
1987Ta21:	$^{12}\text{C}(\text{pol. } ^6\text{Li},^6\text{Li})$ E=150 MeV, measured $\sigma(\theta)$, A_Y . Deduced $iT_{11}(\theta)$.			
1988Ka09:	$^{12}\text{C}(^6\text{Li},^6\text{Li}),(^6\text{Li},^6\text{Li}')$ E=123.5,168.6 MeV, measured $\sigma(\theta)$. Deduced reaction mechanism.			
1988Na02:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=210 MeV, measured $\sigma(\theta)$. Optical model.			
1988Ta08:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=150 MeV, measured $\sigma(\theta)$ asymmetry. Deduced $iT_{11}(\theta)$.			
1989De34:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=90-93 MeV, measured $\sigma(\theta)$. Deduced potential parameters. DWBA.			
1989Gi01:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=158 MeV, measured ^6Li spectra.			
1989Va04:	$^{12}\text{C}(\text{pol. } ^6\text{Li},^6\text{Li})$ E=30 MeV, measured $\sigma(\theta)$, analyzing power vs θ . Deduced reaction mechanism, model parameters.			
1990Sa05:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=30.6 MeV, analyzed $\sigma(\theta)$. Deduced model parameters.			
1990Tr02:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=20,50 MeV, measured $\sigma(\theta)$. Deduced optical model parameters.			
1993Na01,1994Na03:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=35,53 MeV/nucleon, measured $\sigma(\theta)$, folding model analysis with M3Y interaction.			
1994Re01:	$^{12}\text{C}(\text{pol. } ^6\text{Li},^6\text{Li})$ E=30 MeV, measured $\sigma(\theta)$, vector, tensor analyzing power vs θ . Deduced model parameters, tensor potential need. ^{12}C levels deduced deformation lengths.			
1995Ca26:	$^{12}\text{C}(^6\text{Li},^6\text{Li}),(^6\text{Li},^6\text{Li}')$ $E_{\text{c.m.}}=2-16$ MeV, measured $\sigma(\theta)$ vs E . ^{12}C levels deduced deformation lengths. DWBA.			
1995Ke10:	$^{12}\text{C}(\text{pol. } ^6\text{Li},^6\text{Li})$ E=30,50 MeV, measured $\sigma(\theta)$, analyzing powers. Deduced optical model parameters.			
1996Ga29:	$^{12}\text{C}(\text{pol. } ^6\text{Li},^6\text{Li}),(\text{pol. } ^6\text{Li},^6\text{Li}')$ E=30 MeV, measured $\sigma(\theta)$, recoil ^{12}C spectra, vector analyzing powers.			
1996Ke09:	$^{12}\text{C}(\text{pol. } ^6\text{Li},^6\text{Li}),(\text{pol. } ^6\text{Li},^6\text{Li}')$ E=30,50 MeV, measured $iT_{11}(\theta), T_{20}(\theta), T_{21}(\theta), T_{22}(\theta), \sigma(\theta)$. Deduced optical model parameters. ^{12}C levels deduced deformation length parameters.			
2000Sc11:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=600 MeV, measured elastic and breakup $\sigma(\theta)$, particle spectra.			
2004Ca46:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=54,63,130 MeV, measured $\sigma(\theta)$. Deduced model parameters, refractive effects.			
2004MaZR,2005MaZK:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=63 MeV, measured elastic, inelastic $\sigma(\theta)$.			
2005Mb12:	$^{12}\text{C}(^6\text{Li},^6\text{Li}),(^6\text{Li},^6\text{Li}')$ E=63 MeV, measured $\sigma(\theta)$.			
2008Ke06:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=35 MeV/nucleon, calculated $\sigma, \sigma(\theta)$. Coupled reaction channel calculations (CDCC).			
2009Da22:	$^{12}\text{C}(^6\text{Li},^6\text{Li}),(^6\text{Li},^6\text{Li}')$ E=124,169 MeV, analyzed elastic and inelastic scattering cross section and $\sigma(\theta)$ data using diffraction model of scattering; deduced nuclear rms radii for excited states in ^{12}C .			
2011Ba25:	$^{12}\text{C}(^6\text{Li},^6\text{Li})$ E=12.3 MeV, measured particle spectra, tof, $\sigma(\theta)$.			

 $^{12}\text{C}(^6\text{Li}, ^6\text{Li})$ **1974Bi04** (continued) ^{12}C LevelsE(level)[†]

0
4.4×10³
7.7×10³
9.6×10³
10.8×10³
11.8×10³
12.7×10³
13.4×10³
14.1×10³

[†] From (1974Bi04).