
$^6\text{Li}(^{12}\text{C}, ^{12}\text{C}) \quad 2002\text{Ti10,1996Ke09}$

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

- 1973Sc26: $^{12}\text{C}(^6\text{Li}, ^6\text{Li}), (^6\text{Li}, ^6\text{Li}')$ E=34, 36 MeV, measured $\sigma(\theta)$.
 1974Bi04: $^{12}\text{C}(^6\text{Li}, ^6\text{Li}), (^6\text{Li}, ^6\text{Li}')$ E=36.4, 40.0 MeV, measured $\sigma(\theta)$.
 1980Fu06: $^{12}\text{C}(^6\text{Li}, ^6\text{Li}), (^6\text{Li}, ^6\text{Li}')$ E=20-36 MeV, measured $\sigma(E(^6\text{Li}), \theta)$.
 1985Cu04: $^{12}\text{C}(^6\text{Li}, ^6\text{Li}), (^6\text{Li}, ^6\text{Li}')$ E=34 MeV, measured $\sigma(\theta)$. ^6Li deduced elastic to inelastic breakup ratio.
 1988Ka09: $^{12}\text{C}(^6\text{Li}, ^6\text{Li}), (^6\text{Li}, ^6\text{Li}')$ E=123.5, 168.6 MeV, measured $\sigma(\theta)$.
 1989Gi01: $^{12}\text{C}(^6\text{Li}, ^6\text{Li})$ E=158 MeV, measured ^6Li spectra. $^{12}\text{C}(^6\text{Li}, ^6\text{Li}')$ E=156 MeV, measured $\sigma(\theta), \sigma(\theta(^6\text{Li}), E(^6\text{Li}))$.
 1990Tr02: $^{12}\text{C}(^6\text{Li}, ^6\text{Li})$ E=20, 50 MeV, measured $\sigma(\theta)$. $^{12}\text{C}(^6\text{Li}, ^6\text{Li}')$ E=50 MeV, measured $\sigma(\theta)$.
 1994Re15: $^{12}\text{C}(\text{pol } ^6\text{Li}, ^6\text{Li}), (\text{pol } ^6\text{Li}, ^6\text{Li}')$ E=30 MeV, measured $\sigma(\theta), ^6\text{Li}, ^{12}\text{C}$ levels deduced deformation lengths.
 1995Ca26: $^{12}\text{C}(^6\text{Li}, ^6\text{Li}), (^6\text{Li}, ^6\text{Li}')$ E_{c.m.}=2-16 MeV, measured $\sigma(\theta, E)$. ^6Li levels deduced deformation lengths.
 1995Ke10: $^{12}\text{C}(\text{pol } ^6\text{Li}, ^6\text{Li})$ E=30, 50 MeV, measured $\sigma(\theta)$.
 1996Ga29: $^{12}\text{C}(\text{pol } ^6\text{Li}, ^6\text{Li}), (\text{pol } ^6\text{Li}, ^6\text{Li}')$ E=30 MeV, measured $\sigma(\theta)$.
 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 iT₁₁(THETA), T₂₀(THETA), T₂₁(THETA), T₂₂(THETA), $\sigma(\theta), ^6\text{Li}(^{12}\text{C}, ^{12}\text{C})$ E=100 MeV, measured $\sigma(\theta), ^6\text{Li}, ^{12}\text{C}$ levels deduced deformation length parameters.
 2000Sc11: $^{12}\text{C}(^6\text{Li}, ^6\text{Li})$ E=600 MeV, measured elastic and breakup $\sigma(\theta)$.

^6Li Levels

E(level)	J $^\pi$
0	1 $^+$
2.186×10 ³	3 $^+$
4.31×10 ³	(2 $^+$)
5.65×10 ³	