^{12}C(^{8}Li,^{8}Li′), Ni(^{8}Li,^{8}Li′)   2004Ti06

History

Type	Author	Citation	Literature Cutoff Date
Update	J. H. Kelley, J. L. Godwin, C. G. Sheu	ENSDF	31-Mar-2004

Also Au(^{8}Li,^{8}Li′),Pb(^{8}Li,^{8}Li′).

1989Ko17: ^{197}Au(^{8}Li,^{8}Li) E not given, measured $\sigma(\theta)$.

1990Sk10: Ag(^{8}Li,^{8}Li) E=94 MeV, measured $\sigma(\theta)$.

1991Be49: ^{197}Au,C,Ni(^{8}Li,^{8}Li),(^{8}Li,^{8}Li′) E=13.8-14.9 MeV, measured σ(E(^{8}Li)).

1991Br14: Ni(^{8}Li,^{8}Li′),(^{8}Li,^{8}Li) E≈14.6 MeV, measured $\sigma(\theta)$. ^{8}Li deduced level excitation probability, B(E2).

1991Sm02: C,^{197}Au(^{8}Li,^{8}Li),(^{8}Li,^{8}Li′) E=14 MeV, measured $\sigma(\theta)$. Deduced model parameters. ^{8}Li level deduced B(E2).

1993Be22: ^{12}C,^{58}Ni(^{8}Li,^{8}Li) E≈13-20 MeV, measured $\sigma(\theta)$.

2002Ko25: ^{208}Pb(^{8}Li,^{8}Li) E(C.M.)=24-33 MeV, measured $\sigma(\theta)$. Deduced total reaction σ.

2003Be38: Pb(^{8}Li,^{8}Li),(^{8}Li,^{8}Li′) E=20-36 MeV, measured σ(E). ^{8}Li deduced transition B(E2).

^{8}Li Levels

E(level)	Comments
0	
980	B(E2)=30 e^{2}fm^{4} 15 (^{12}C), B(E2)=55 e^{2}fm^{4} 15 (^{58}Ni).