^{12}C(^{14}N,^{14}N) 1975Aj02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, J. E. Purcell and C. G. Sheu	NP A968,71 (2017)	1-Jan-2017

1969He06: ^{12}C(^{14}N,^{14}N) E=22.5 MeV, measured $\sigma(\theta)$.
1970Vo02: ^{12}C(^{14}N,^{14}N),(^{14}N,^{14}N′) E=78 MeV, measured $\sigma(\theta)$. DWBA analysis.
1971Ko11: ^{12}C(^{14}N,^{14}N) E=65-88 MeV, measured σ(E,θ). Deduced optical model parameters.
1971Vo01: ^{12}C(^{14}N,^{14}N) $E_{c.m.}$=9.65,9.85 MeV, measured $\sigma(\theta)$.
1974Ko38: ^{12}C(^{14}N,^{14}N) E=50-90 MeV, measured σ(E,θ). Deduced optical model parameters. ^{12}C(^{14}N,^{14}N′), measured $\sigma(\theta)$.
1975Ec03: ^{12}C(^{14}N,^{14}N) E=15.0-25.0 MeV, measured σ(E,θ).
1975Ra33: ^{12}C(^{14}N,^{14}N) E=155 MeV, analyzed data.
1977To02: ^{12}C(^{14}N,^{14}N),(^{14}N,^{14}N′) E=155 MeV, measured $\sigma(\theta)$. Deduced optical potentials. ^{12}C levels deduced β.
1979Mo14: ^{12}C(^{14}N,^{14}N) E=65.8-95.2 MeV, measured σ(E,θ). Optical model, exact finite-range-DWBA analysis.
1981Co11: ^{12}C(^{14}N,^{14}N) E=45-60 MeV, measured σ(E,θ). Deduced reaction mechanism.
1988Ar23: ^{12}C(^{14}N,^{14}N),(^{14}N,^{14}N′) E=86 MeV, measured σ(E(^{14}N)). Deduced model parameters.
1990Br21: ^{12}C(^{14}N,^{14}N) E=280 MeV, measured $\sigma(\theta)$. Deduced model parameters.
1990De13: ^{12}C(^{14}N,^{14}N) E=80.73,100.3 MeV, analyzed $\sigma(\theta)$. Deduced model parameters.
1997Zi05: ^{12}C(^{14}N,^{14}N),(^{14}N,^{14}N′) E=116 MeV, measured $\sigma(\theta)$. Deduced reaction mechanism. ^{12}C deduced deformation parameters.

^{12}C Levels

E(level)[†]
0
4.4×10^{3}
7.7×10^{3}
9.6×10^{3}
10.8×10^{3}
11.8×10^{3}
12.7×10^{3}
13.4×10^{3}
14.1×10^{3}

[†] See unpublished reference in (1975Aj02).