^{13}C(d,t) 1979Co08

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

1968Te04: ^{13}C(d,t) E=12.1-14.0 MeV, measured σ(E,E$_t$,θ). ^{12}C deduced S.
1971De03: ^{13}C(pol. d,t) E$_d$=12.1 MeV, measured vector analyzing power P$_d$(θ).
1971Pu01: ^{13}C(d,t) E=0.4-0.85 MeV, measured σ(E,θ). Deduced optical-model parameters.
1972Br27: ^{13}C(d,t) E=28 MeV, measured σ(E$_{d'}$), σ(θ). ^{12}C levels deduced isospin mixing, S, β.
1973Za06: ^{13}C(d,t) E=13.6 MeV, measured σ(E$_t$,θ).
1974Lu06: ^{13}C(pol. d,t) E=15 MeV, measured σ(E$_t$,θ), A(θ). ^{12}C level deduced S, J-dependence, J-admixtures. DWBA analysis.
1975Za06: ^{13}C(d,t), analyzed data. Deduced J dependence of σ.
1977Li02: ^{13}C(d,t) E=24-26 MeV, measured σ(θ). ^{12}C levels deduced S. DWBA analysis.
1978Da17: ^{13}C(pol. d,t) E=13.0 MeV, measured vector analyzing power iT$_{11}$(θ), σ(θ). Deduced optical model parameters. DWBA analysis.
1979Co08: ^{13}C(d,t) E=29 MeV, measured σ(θ), Ay(θ). ^{12}C levels deduced isospin mixing. DWBA calculations.
1988Go02: ^{13}C(d,t) E=18 MeV, measured σ(θ). Deduced model parameters, spectroscopic factors. Exact, finite-range DWBA.
1988Gu20: ^{13}C(d,t) E=18 MeV, measured σ(θ). DWBA.
1990Gu26: ^{13}C(d,t) E=18 MeV, analyzed σ(θ). Deduced reaction mechanism, differences. DWBA analysis.
1995Gu22: ^{13}C(d,t) E=8-50 MeV, analyzed σ(θ). Deduced vertex constants. Combined DWBA, dispersion theory approaches.
2007Co01: ^{13}C(d,t) E=0.5-1.65 MeV, measured σ(θ).

^{12}C Levels

E(level)
0
4.4×10^3
7.65×10^3
12.71×10^3 †
15.11×10^3 †
16.11×10^3 †

† See (1972Br27,1977Li02,1979Co08) for measurements of ^{12}C*(12.7,15.1,16.1 MeV) and studies of the charge-dependent matrix element between ^{12}C*(12.71,15.11).