^{12}C(d,2p)   **2007De28,2008WoZZ**

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

1979St15: ^{12}C(d,2p) E=55 MeV, measured $\sigma(E_{p1},E_{p2},\theta)$. DWBA analysis.

1982Be33: ^{12}C(d,2p) E=99.2 MeV, measured $\sigma(E(^2He),\sigma(\theta)$.

1986Mo27: ^{12}C($\vec{d}$,2p) E=70 MeV, measured $\sigma(\theta)$, A(θ). Deduced reaction mechanism. DWBA analysis.

1987El14: ^{12}C(d,2p) E=0.65,2 GeV measured $\sigma(E_P,\theta_P)$.

1988Mo11: ^{12}C($\vec{d}$,2p) E=70 MeV, measured vector, tensor analyzing power vs. θ. ^{12}B transition deduced transfer J. DWBA, PWIA analyses.

1988Mo29: ^{12}C(d,2p) E=70 MeV, measured pp-coin, $\sigma(E_{relative})$.

1989El05: ^{12}C($\vec{d}$,2p) E=1.6,2 GeV, measured pp-coin spectra, tensor polarization response. Deduced Δ excitation spin structure.

1991Mc03: ^{12}C($\vec{d}$,2p) E=2 GeV, compiled, reviewed data analyses. Deduced nucleon-nucleus interaction features, spin-effects, spin-isospin modes role.

1993Oh01: ^{12}C(d,2p) E=260 MeV, measured $\sigma(E_{p1},E_{p2},\theta_{12},\Phi_{12})$. Deduced $\sigma(d,^2He)$, $\theta=0°$, proportionality to Gamow-Teller transition-strengths.

1993Sa09: ^{12}C($\vec{d}$,2p) E=70 MeV, measured $\sigma(\theta)$, vector, tensor analyzing powers vs. θ.

1998In02: ^{12}C(d,2p) E=200 MeV, measured excitation energy spectra, proton, neutron $\sigma(\theta)$ following residual nucleus decay. ^{12}B deduced spin-isospin excitation modes, particle decay features.

2001Wo07: ^{12}C(d,2p) E=170 MeV, measured excitation energy spectra, resonance parameters.

2002Ok02: ^{12}C($\vec{d}$,2p) E=270 MeV, measured $\sigma(E,\theta)$, tensor analyzing power. ^{12}B deduced excited states J, π, possible 0^- state.

2002Ra12,2002Ra15: ^{12}C(d,2p) E=170 MeV, measured E_P, pp-coin, $\sigma(E,\theta)$, angular correlations. ^{12}B deduced levels, J, π. DWBA analysis.

2004Ha12,2004Po03: ^{12}C(d,2p) E=172 MeV, measured proton spectra, pp-coin, spin correlations.

2007De28,2008WoZZ: ^{12}C(d,^{2}He) E=171 MeV; measured E_p, pp-coin, excitation energy spectra, $\sigma(E,\theta)$, tensor analysing powers.

^{12}B Levels

E(level)	E(level)	J^π	$\Gamma^\#$	E(level)	J^π	$\Gamma^\#$
0	$4.0\times10^{3\#}$	$0^{-\#}$		7.7×10^3	$1^{-\ddagger}$	
0.95×10^3	$4.21\times10^{3\#}$ I		≈260 keV	8.2×10^3		
1.7×10^3	$4.47\times10^{3\#}$ I	$2^{-\#}$	≈209 keV	9.3×10^3	$0^{-\dagger}$	≈330 keV
2.6×10^3	5.0×10^3			$10.05\times10^{3\#}$ 8	$1^{-\#}$	≈470 keV
3.4×10^3	5.6×10^3			10.7×10^3		
3.8×10^3	7.5×10^3	$2^{-\dagger}$				

† From (1996Sa11,2002Ok02).
‡ From (1998In02).
$^\#$ From (2007De28,2008WoZZ).