^{12}C(d,α) 1988Aj01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. L. Godwin, et al.	NP A745 155 (2004)	31-Mar-2004

1965Br28: ^{12}C(d,α) E=3.0-4.5 MeV, measured Q.
1965Ba06,1966Ba32: ^{12}C(d,α) E=9.2-13.8 MeV, measured σ(E,E$_\alpha$,θ).
1966Ha09: ^{12}C(d,α) E=11 MeV, measured σ(E$_\alpha$,θ). ^{10}B deduced levels.
1969Co02: ^{12}C(d,α) E=5 to 10 MeV, measured σ(E,θ), σ(E,E$_P$,θ), σ(E,E$_\alpha$,θ).
1969De29: ^{12}C(d,α) E=7 MeV, measured σ(E$_\alpha$).
1970We03: ^{12}C(d,α) E not given, measured nothing. Deduced reaction mechanism.
1971Ja04: ^{12}C(d,α) E=14-18,26-30 MeV, measured σ(E,θ). Deduced reaction mechanism.
1969Sm03,1971Ri15,1972Sm07: ^{12}C(d,α) E=8-17 MeV, analyzed σ(E,θ), asymmetry(E). Deduced possible compound-nucleus model interpretation.
1971Vo04: ^{12}C(d,α) E=14-17 MeV, measured σ(E$_\alpha$,θ). Deduced non-compound-nucleus contribution.
1974Jo01: ^{12}C(d,α) E=13.8-17 MeV, measured σ(E,E$_\alpha$,θ). Deduced reaction mechanism.
1975Ku15: ^{12}C(pol. d,α) E=14.5 MeV, measured σ(E$_\alpha$,θ). ^{10}B levels deduced J, π.
1976Va07: ^{12}C(d,α) E=40 MeV, measured σ(E$_\alpha$,θ).
1977Co17: ^{12}C(pol. d,α) E=20.7,29 MeV, measured σ(θ), A$_Y$(THETA).
1979Wa24: ^{12}C(d,α) E=9 MeV, measured σ(θ). Zero-range DWBA.
1981Jo02: ^{12}C(d,α) E=7-16 MeV, analyzed σ(θ), σ(E). S-matrix analysis.
1982Ma25: ^{12}C(pol. d,α) E=52 MeV, measured σ(θ), iT$_{11}$(THETA).
1983Ji04: ^{12}C(d,α) E=1.5-2.1 MeV, measured σ(θ).
1984LoZZ: ^{12}C(d,α) E=14.5 MeV, measured σ(θ-α), α-α-coin. ^{10}B level deduced α-decay characteristics.

^{10}B Levels

E(level)	J$^\pi$	Comments
0		
720 *9*		E(level): from weighted average of 720 keV *10* (1962Ar02) and 720 keV *20* (1965Be17).
2150. *9*		E(level): from weighted average of 2150 keV *10* (1962Ar02) and 2150 keV *20* (1965Be17).
3582. *9*		E(level): from weighted average of 3580 keV *10* (1962Ar02) and 3590 keV *20* (1965Be17).
4.77×10^3 *1*	3$^+$	E(level): from weighted average of 4770 keV *10* (1962Ar02) and 4770 keV *20* (1965Be17). J$^\pi$ from (1975Ku15).
5.11×10^3 *1*	2$^-$	E(level): from (1962Ar02). J$^\pi$ from (1975Ku15).
5.17×10^3 *5*		E(level): from (1965Be17).
5.92×10^3		E(level): see (1974Aj01).
6.04×10^3 *5*		E(level): from (1965Be17).
6.13×10^3		E(level): see (1974Aj01).
6.56×10^3	(3$^+$,4$^-$)	E(level): see (1974Aj01). J$^\pi$ from (1975Ku15).
6.67×10^3 *11*		E(level): from (1965Be17).
7.05×10^3 *10*		E(level): from (1965Be17).