^{13}C(d,α) 1970Br23

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu	NP A880,88 (2012)	1-Jan-2011

1968Co04: ^{13}C(d,α) E=3.87, 4.66 MeV, measured $\sigma(\theta$=70 degree).
1968De26: ^{13}C(d,α) E=6.8 MeV, measured $\sigma(\theta)$.
1969Cu08: ^{13}C(d,α) E=10-12 MeV, measured $\sigma(E_\alpha,\theta)$. ^{11}B levels deduced L, J. Zero-range DWBA.
1970Br23: ^{13}C(d,α) E=4.0, 4.2 MeV, measured $\sigma(E_\alpha,\theta)$, Q. ^{11}B deduced levels.
1970Kl04: ^{13}C(d,α) E=12.1-14.1 MeV, measured $\sigma(E,E_\alpha,\theta)$. DWBA calculations.
1971Pu01: ^{13}C(d,α) E=0.4-0.85 MeV, measured $\sigma(E,\theta)$. Deduced optical-model parameters.
1993Ma54: ^{13}C(d,α) E=0.15-0.35 MeV, measured $\sigma(\theta)$. Deduced astrophysical S-factor.
1998Na38: ^{13}C(d,α) E=180-350 keV, measured σ, $\sigma(\theta)$, σ(E).
2007Co01: ^{13}C(d,α), E=0.5-1.65 MeV; measured $\sigma(\theta)$.
2009Ga19: ^{13}C(d,α), E=15.3 MeV, measured E_α, I_α. Deduced $\sigma(\theta)$, formation of excited states In ^{11}B.

^{11}B Levels

E(level)	Comments
0	
2125.4 *14*	E(level): from (1970Br23), also see E=2107 keV *17* (1951Li29).
4444.5 *16*	E(level): from (1970Br23).
5020.2 *19*	E(level): from (1970Br23).
6745.9 *34*	E(level): from (1970Br23).
6795.7 *30*	E(level): from (1970Br23).
8520 *70*	E(level): from (1980Aj01 referring to 1970Br23) the origin is unclear.
8910 *60*	E(level): from (1980Aj01 referring to 1970Br23) the origin is unclear.