^{11}B(d,α),^{11}B(d,αn) 1974Aj01

History

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

1966Pu02: ^{11}B(d,$\alpha\gamma$) E=1.70 MeV, measured γ-width/Γ for ^{9}Be levels. ^{9}Be levels deduced Γ.
1968Co31: ^{11}B(d,α) E=0.8-2.5 MeV, measured σ(E,θ). Deduced reaction mechanism. ^{9}Be transitions deduced L.
1969Fr03: ^{11}B(d,α) E=0.7-2.2 MeV, measured σ(E,E$_{\alpha}$,θ).
1974Ca34: ^{11}B(d,α) E=3.0-3,9 MeV, measured σ(E$_{\alpha}$,θ).
1975Fo13: ^{11}B(d,α) E=7.0 MeV, measured σ(E$_{\alpha}$). ^{9}Be deduced level.
1997Ya02, 1997Ya08: ^{11}B(d,α) E(cm)=76-144 MeV, 57-141 keV, measured energy spectra, σ(θ), astrophysical S-factors. Deduced σ, astrophysical S-factor vs E.
1965Ol01: ^{11}B(d,nα) E=1.5 MeV, measured σ(E$_{N}$,E$_{\alpha}$,$\theta_{d(\alpha)}$), αn-coin.
1985Ne01: ^{11}B(d,nα) E=12 MeV, measured np(θ), αn(θ), np-, αn-coin.

^{9}Be Levels

E(level)	T$_{1/2}$	Comments
0.0		
1710 *9*	203 keV *10*	$\Gamma_{\gamma}/\Gamma<2.4\times10^{-5}$ E(level): from weighted average of 1.70 MeV *1* (1975Fo13), 1.75 MeV *2* (1955Le36) and 1.669 MeV *10* (1956Bo18). Γ: from weighted average of 224 keV *25* (1958Ka31, 1966Pu02) and 200 keV *10* (1975Fo13). Note: (1966Pu02) corrected an error In (1958Ka31) who had originally reported 143 keV *15*. Γ_{γ}/Γ from (1966Pu02).
2425. *3*	0.78 keV *13*	$\Gamma_{\gamma}/\Gamma=1.16\times10^{-4}$ *14* E(level): from weighted average of 2422 keV *5* (1951Va08), 2431 keV *6* (1954El10), 2424 keV *5* (1956Bo18) and 2.43 MeV *2* (1955Le36). the Γ_{γ}/Γ implies Γ=0.78 keV *13* since Γ_{γ}=0.091 eV *10* ^{9}Be(e,e′) (1968Cl08).
3035 *25*	257 keV *25*	E(level): from weighted average of 3.02 MeV *3* (1955Le36) and 3.05 MeV *3* (1956Bo18). Γ: from (1966Pu02) who corrected an error In (1958Ka31) who had originally reported 161 keV *15*.
4.7×10^{3}		from (1971Re19).