^{9}Be(p,d),(p,α) 1979Aj01

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

1966La20: ^{9}Be(p,d), (P,α) E=7.0, 8.0, 9.0 MeV, measured σ(E,E$_d$), σ(E,E$_\alpha$).
1967Iv01: ^{9}Be(p,d) E=4.9 to 9.8 MeV, measured tensor polarization (E,θ).
1967Ro07: ^{9}Be(p,d) E=330 keV, measured polarization of deuterons.
1968Fr10: ^{9}Be(p,d) E$_P$=1.6-3.8 MeV, measured tensor polarization T(2q)(θ(lab)<90 degrees).
1968In02: ^{9}Be(p,d) E=185 MeV, measured asymmetry, P(θ).
1968Le01: ^{9}Be(p,d) E=100 MeV, measured σ(E$_d$,θ).
1968Si07: ^{9}Be(p,d), (P, α) E=2-2.1 MeV, measured σ(E$_P$,θ) for elastic scattering.
1969Ba05: ^{9}Be(p,d) E=155.6 MeV, measured σ(E$_d$,θ). ^{10}B deduced levels, J, π, L, S.
1969Co06: ^{9}Be(p,d) E=12, 17 MeV, measured σ(E,θ).
1969Ed02: ^{9}Be(p,d) E=1, 2, 3 GeV, measured σ(E,θ,E$_d$). Deduced reaction mechanism.
1969Su02: ^{9}Be(p,d) E=185 MeV, measured σ(E$_d$,θ).
1971Sc26: ^{9}Be(p,d) E=46, 100 MeV, analyzed σ(θ). DWBA, local-energy approximation.
1972Hu03: ^{9}Be(P,d$_0$) E=5, 6, 7, 8, 9, 10, 11 MeV, measured σ(θ).
1973Si27: ^{9}Be(p,d), (P, α) E=30-700 keV, measured σ(E); E=100-600 keV, measured σ(E,θ). ^{10}B deduced resonance parameters.
1973Vo02: ^{9}Be(P,d$_0$) E=13.0, 14.0, 15.0, 21.35, 30.3 MeV, measured σ(θ); E=8.0, 11.0, 12.0, 13.0, 15.0 MeV, measured A(θ).
1976Da15: ^{9}Be(pol. p,d) E=15 MeV, measured σ(θ),Ay(θ). DWBA, ICC analyses.
1977Av01: ^{9}Be(p,d), (P,α) E=660 MeV, measured absolute σ.
1977Gu14: ^{9}Be(p,d) E=17.7 MeV, measured σ(E$_d$,θ).
1981Be53: ^{9}Be(p,d) E=14.3, 26.2 MeV, measured σ(θ,E$_d$). Finite-range DWBA, line shape analyses.
1981Ov02: ^{9}Be(p,d) E=33 MeV, measured σ(E$_d$).
1984Za07: ^{9}Be(p,d) E=50, 72 MeV, measured σ(θ). Deduced reaction mechanism.
1985Se15: ^{9}Be(p,d), (P,α) E=150 MeV, measured σ(E$_P$,θ_P), charged particle yields.
1987Go27: ^{9}Be(p,d) E=18.6 MeV, analyzed σ(θ). Deduced model parameters.
1987Ka25: ^{9}Be(pol. p, d) E=60 MeV, measured inclusive spectra, analyzing power vs θ. Deduced continuum final state matrix element amplitudes.
1991Ab04: ^{9}Be(p,d) E=33.6 MeV, analyzed σ(θ).
1997Za06: ^{9}Be(p,d), (P,α) E=16-390 keV, measured astrophysical S-factors, σ(θ). ^{10}B deduced resonances E, Γ.
1998Br10: ^{9}Be(pol. p,d), (pol. p,α) E=77-321 keV, measured σ(θ), Ay(θ). Deduced reaction mechanism. R-matrix, DWBA analyses.
2001Ba47: ^{9}Be(p,d), (P,α) E=16-700 keV, analyzed σ, σ(θ), astrophysical S-factors, analyzing powers. Deduced R-matrix parameters.
1965Br28: ^{9}Be(P,α) E=3.0-4.5 MeV, measured Q.
1969Ga03: ^{9}Be(P,α) E$_P$=38 MeV, measured σ(E$_\alpha$,θ). PWBA analysis.
1970Gu06: ^{9}Be(P,α) E=26.7 MeV, measured σ(θ), σ(E,θ).
1970Ko25: ^{9}Be(P,α) E=665 MeV, measured σ(E).
1972De01: ^{9}Be(P,α) E$_P$=45.0 MeV, measured σ(θ=20-160 degrees cms).
1972De02: ^{9}Be(P,α) E=45 MeV, analyzed σ(θ). Finite-range DWBA.
1973Ma59: ^{9}Be(P,α) E=2.2-2.8 MeV, measured σ(E,θ), P$_P$(THETA).
1976Ki17: ^{9}Be(P,α), measured σ(E$_\alpha$,θ).
1977Ki04: ^{9}Be(p,$\alpha\gamma$) E=2.49-2.64 MeV, measured σ(E). ^{10}B deduced levels, J, π, Γ, T$_{1/2}$.
1977Sz07: ^{9}Be(p,$\alpha\gamma$), analyzed Doppler broadened line shape.
1983De14: ^{9}Be(P,α) E=30, 50, 75 MeV, measured inclusive σ(θ,E$_t$), σ(θ,E(^{6}Li)). Dependence, competing deduced exit channel mechanism role.
1986Ha27: ^{9}Be(P,α) E=18-45 MeV, measured σ(E,θ).
1989Gu05: ^{9}Be(P,α) E=50 MeV, measured σ(θ). Deduced model parameters, structure effects.
1992Pe12: ^{9}Be(P,α) E=25, 30 MeV, measured σ(θ). Deduced σ(E), model parameters.
1996Ya09: ^{9}Be(P,α) E=45, 50 MeV, analyzed σ(θ). Finite-range DWBA, cluster-coupling shell model spectroscopic factors.
1999An35: ^{9}Be(P,α) E<10 MeV, complied, analyzed σ, S-factors.

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2004Ti06: the results of an unpublished R-matrix analysis are given In Table 10.26.

^{10}B Levels

E(level)	J^{π}	$T_{1/2}$	E_P (keV)	Comments
6.89×10^3	1^-		340	Γ_p/Γ=0.3; T=0 E(level): from (1956Mo90,1973Si27).
7.00×10^3	$1^+,(2^+,3^+)$		460	E(level): from (1949Th05, 1951Ne03, 1973Si27).
7.20×10^3?			680	E(level): from (1949Th05, 1951Ne03).
7.43×10^3	(2^-)	140 keV	940	T=(0). E(level): Γ: from (1964Ho02) analysis of (1956We37) data.
7.62×10^3	(1^+)	225 keV *50*	1150	$\Gamma_p/\Gamma\approx0.4$ T=(0). E(level): Γ: from (1964Ho02) analysis of (1956We37) data.
8.07×10^3	(2^-)	0.80 MeV *20*	1650	$\Gamma_p/\Gamma\approx0.07$ T=(0). E(level): Γ: from (1964Ho02) analysis of (1956We37) data.
8.7×10^3?		≈220 keV	2300	E(level): Γ: from (1956We37) and Morita et al., Nuclear Physics 66 (1965) 17.
8891 *9*	3^-	100 keV *20*		T=1 E(level): Γ: from R-matrix analysis E_{res}= 2561 keV *+10−2* (1977Ki04). Also see (1956We37,1973Ma59).
8895 *1*	2^+	40 keV *1*	2566 *1*	T=1 E(level): Γ: from R-matrix analysis E_{res}= 2566 keV *1* (1977Ki04). Also see (1956We37,1973Ma59).
9.7×10^3			3500	T=1 E(level): from (1959Ma20).
10.62×10^3?		200 keV	4490	T=1 E(level): from (1959Ma20). Γ: In (2004Ti06) Γ=200 keV is given with reference to (Yasu, Bull. Inst. Chem. Res, Kyoto Univ. 52 (1974) 177).
10.8×10^3?		300 keV	4700	E(level): Γ: from (Yasu) see (2004Ti06).
11.5×10^3?		500 keV	5500	E(level): Γ: from (Yasu) see (2004Ti06).