^{11}B(p,n):res 2017Ke05

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

1969Mo32: ^{11}B(p,n) E not given, measured thresholds.
1969Ra36: ^{11}B(p,n) E≈20 MeV, surveyed quasi-elastic $\sigma(\theta)$ data.
1970Cl01: ^{11}B(p,n) E=30,50 MeV, measured $\sigma(E,E_n,\theta)$.
1972Mo41: ^{11}B(p,n) E=24.5 MeV, measured analyzing power(θ).
1974Pe04: ^{11}B(p,n) E<6 MeV, measured ^{11}C yield.
1976Hi11: ^{11}B(pol. p,n) E=16.3,21.3,26.5 MeV, measured transverse polarization transfer coefficient.
1976Li08: ^{11}B(pol. p,n) E=7-15 MeV, measured transverse polarization transfer coefficients.
1978Va12: ^{11}B(p,n) E=3-4.9 MeV, measured $\sigma(E,E_n,\theta)$. ^{12}C level deduced J, π.
1979Ba68: ^{11}B(p,n) E=1 GeV, measured $\sigma(E_n,\theta)$. Deduced dependency of quasielastic neutron production on mass.
1980Ra16: ^{11}B(p,n) E=3-6 MeV, measured absolute $\sigma(E)$. ^{12}C deduced resonances, J, π, T.
1981An16: ^{11}B(p,n) E=10.9-27.5 MeV, measured $\sigma(E)$, thick target yields.
1981Ba22: ^{11}B(p,n) E=4-12 MeV, measured thick target yields, $\sigma(E)$.
1981Ho13: ^{11}B(p,n) E=5.4-7.5 MeV, measured $\sigma(E,\theta)$. Deduced direct, resonance effects. ^{12}C deduced resonances, Γ, J, π.
1985Gr09: ^{11}B(p,n) E=16-26 MeV, measured $\sigma(E_n)$, $\sigma(\theta)$. Deduced residual production σ. DWA analysis.
1985Ku13: ^{11}B(p,n) E=9.1 MeV, measured absolute thick target γ yields.
1985Sc08: ^{11}B(p,n) E=13.7-14,7 MeV, measured absolute $\sigma(\theta)$ vs E.
1986Ai04: ^{11}B(p,n) E<14.7 MeV, measured σ, residuals yields.
1986Mu08: ^{11}B(p,n),(pol. p,n) E=12.77-17.22 MeV, measured $\sigma(\theta)$, analyzing power vs θ.
1987Ra23: ^{11}B(p,n) E=7-9 MeV, measured absolute thick target γ yield, relative neutron yield.
1988Ka30: ^{11}B(p,n) E=15.8,18.6 MeV, measured $\sigma(\theta)$. Deduced residual nuclei vertex constants.
1989Ra09: ^{11}B(p,n) E=492 MeV, measured $\sigma(\theta,E)$. Deduced unit σ(ratio).
1990Ta15: ^{11}B(p,n) E=160-795 MeV, measured $\sigma(E_n,\theta=0°)$.
1994Ga49: ^{11}B(p,n) E=1 GeV, analyzed $\sigma(\theta)$, mass dependences. Deduced resonance phenomena related features.
1994Wa22,1994Ra23,1995Ya12: ^{11}B(p,n),(pol. p,n) E=186 MeV, measured $\sigma(\theta,E_n)$, polarization transfer coefficient, analyzing power vs θ.
1995Wa16: ^{11}B(pol. p,n) E=295 MeV, measured $\sigma(\theta)$, polarization coefficient vs excitation energy. Deduced spin-flip strength, effective tensor interactions related features.

^{12}C Levels

E(level)[†]	$T_{1/2}$	Comments
18.40×10^3	44 keV	
18.85×10^3	92 keV	
19.17×10^3	458 keV	
19.42×10^3	46 keV	
19.70×10^3[‡]	183 keV	
19.88×10^3	92 keV	
20.25×10^3[‡]	156 keV	
20.60×10^3[‡]	174 keV	
20.99×10^3[‡]	367 keV	
21.48×10^3[‡#]	513 keV	
21.8×10^3[‡]		$T_{1/2}$: Broad.
22.37×10^3[‡]	312 keV	
22.64×10^3[‡#]	330 keV	
23.05×10^3[‡#]	60 keV	
23.52×10^3[‡#]	348 keV	

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^{11}B(p,n):res 2017Ke05 (continued)

^{12}C Levels (continued)

E(level)†	$T_{1/2}$	E(level)†	$T_{1/2}$
23.89×10^3‡@	165 keV	24.93×10^3‡#	917 keV
24.2×10^3		25.25×10^3‡@	165 keV
24.44×10^3‡@	101 keV	25.96×10^3‡	403 keV
		26.85×10^3	275 keV

† See references listed in (2017Ke05).
‡ Resonant in n_0.
# Resonant in n_1.
@ Resonant in n_2.