$^{10}\text{B(p,d)},^{10}\text{B(p,np)}$ 1988Aj01

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

1969Ba05: ^{10}B(p,d) E=155.6 MeV, measured $\sigma(E_d,\theta)$. ^{9}B deduced levels, J, π, L, S.

1970Sq01, 1971Sq02: ^{10}B(p,d) E=49.5 MeV, measured $\sigma(E_d,\theta)$, asymmetry(θ). ^{9}B deduced levels, J.

1977Av01: ^{10}B(p,d) E=660 MeV, measured absolute σ.

1977Gu14: ^{10}B(p,d) E=16.7, 17.7 MeV, measured $\sigma(E_d,\theta)$.

1985Be13: ^{10}B(p,d) E=18.6 MeV, measured $\sigma(\theta)$. Deduced nuclear vertex constants. ^{9}B levels deduced spectroscopic factors.

1991Ab04: ^{10}B(p,d) E=33.6 MeV, analyzed $\sigma(\theta)$.

1985Be30: ^{10}B(p,np) E=1 GeV, measured angle-integrated $\sigma(E_{P_1})$, $\sigma(E_N)$. Deduced proton, neutron space distribution role.

1985Do16: ^{10}B(p,np) E=1 GeV, measured energy spectra. Deduced potential parameters.

Spectroscopic factors from (1969Ba05).

^{9}B Levels

E(level)	J^π	$T_{1/2}$	L	S	Comments
0	$3/2^-$		1	0.44	
2.34×10^3 *2*	$5/2^-$		1	0.60	E(level): from weighted average of 2.4 MeV *1* (1969Ba05) 2.35 MeV *2* (1968Ku04) and 2.29 MeV *5* (1970Sq01).
2.8×10^3?					E(level): from (1968Ku04).
7.1×10^3 *2*	$7/2^-$	2.18 MeV *15*	1	0.52	E(level): from weighted average of 7.1 MeV *2* (1969Ba05) and 7.1 MeV *2* (1968Ku04). Γ: from weighted average of 2.4 MeV *2* (1969Ba05) and 1.95 MeV *20* (1968Ku04).
11.68×10^3 *7*	$(7/2)^-$	0.80 MeV *5*	1	1.12	E(level): from weighted average of 11.5 MeV *2* (1969Ba05) 11.75 MeV *10* (1968Ku04) and 11.66 MeV *10* (1970Sq01). Γ: from (1968Ku04).
14.7×10^3 *2*	$(5/2)^-$	1.35 MeV *20*	1	0.32	E(level): from weighted average of 14.9 MeV *3* (1969Ba05) and 14.6 MeV *2* (1968Ku04). Γ: from (1968Ku04).
18.4×10^3?					E(level): from (1969Ba05).