^{10}B(p,n) 1993Wa06,2004Ti06

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

1967Mu25: ^{10}B(p,n) E=5-10 MeV, measured Q.
1968Fi09: ^{10}B(p,n) E=2-9.5 MeV, measured Doppler-shift attenuation. ^{10}C levels deduced $T_{1/2}$.
1969Pa09: ^{10}B(P,N γ) E=11.4 MeV, measured E_γ. ^{10}C deduced levels.
1970Cl01: ^{10}B(p,n) E=30, 50 MeV, measured $\sigma(E,E_N,\theta)$. ^{10}C deduced levels J, π.
1974Ro21: ^{10}B(p,n), measured threshold, Q. ^{10}C from ^{10}B(p,n), measured $T_{1/2}$. Deduced ft.
1979Ba68: ^{10}B(p,n) E=1 GeV, measured $\sigma(E_N,\theta)$. Deduced dependency of quasielastic neutron production on mass.
1984Ba12: ^{10}B(p,n) E≈threshold, measured yield. Deduced Q.
1985Sc08: ^{10}B(p,n) E=13.7-14.7 MeV, measured absolute $\sigma(\theta)$ vs. E.
1987Ra23: ^{10}B(p,n) E=7-9 MeV, measured absolute thick target γ yield, relative neutron yield.
1988Ka30: ^{10}B(p,n) E=15.8, 18.6 MeV, measured $\sigma(\theta)$. Deduced residual nuclei vertex constants. ^{10}C deduced resonance widths.
1989Ba28: ^{10}B(p,n) E≈4.88 MeV, measured yield curve, E_γ, I_γ. Deduced reaction threshold energy. ^{10}C deduced decay. E_γ, superallowed β+ decay energy.
1993Wa06: ^{10}B(p,n), ^{10}B(pol. p,N) E=186 MeV, measured $\sigma(\theta_N,E_N)$, analyzing power, polarization, polarization transfer. ^{10}C deduced resonances, J, π, possible IAS.
1994Ra23: ^{10}B(pol. p,N) E=186 MeV, measured $\sigma(\theta,E_N)$, $\sigma(\theta)$, A_Y.
1994Wa22: ^{10}B(p,n), ^{10}B(pol. p,N) E=186 MeV, measured $\sigma(\theta,E_N)$, analyzing power vs. θ.
1995Ya12: ^{10}B(p,n) E=186 MeV, measured $\sigma(\theta,E_N)$, $\Delta L=1$ transitions energy spectra In GDR region.
1998Ba83: ^{10}B(p,n) E≈4.87 MeV, analyzed yield curves. Deduced corrections to reaction threshold energies.
2000Al06: ^{10}B(p,n) E=5-30 MeV, measured σ. Deduced excitation function, thick target yield.

^{10}C Levels

E(level)	J^π	Comments
0	0^+	T=1.
3352.7 *15*	2^+	E(level): from (1969Pa09). B(GT)=0.03, see (1993Wa06). Γ: from $T_{1/2\ mean}$=155 fs *17* (1968Fi09).
5220 *40*	†	B(GT)=0.68 *2* for E=5300, see (1993Wa06).
5380 *70*	†	
6580	(2^+)	E(level): from (1993Wa06).
9000		E(level): from (1993Wa06).
10000		E(level): from (1993Wa06).
16500		E(level): from (1993Wa06).
≈17200	$(2^-,1^-)$	E(level): from (1993Wa06).
≈20200	$(2^-,1^-)$	E(level): from (1993Wa06).

† One of these two states is presumably a 2^+ state.