^{10}B(p,p) 1988Aj01

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

1964Be31: ^{10}B(P,P′γ) E_P=2.0-4.1 MeV, measured γ-spectrum (E), P, $\gamma(\theta)$.
1965Ha17: ^{10}B(p,p′) E=185 MeV, measured $\sigma(E_P,\theta)$. ^{10}B deduced levels, Γ.
1968Fi09: ^{10}B(p,p′) E=2-9.5 MeV, measured Doppler-shift attenuation. ^{10}B levels deduced $T_{1/2}$.
1968Ma18: ^{10}B(P,P′γ) E_P=7.8 MeV, measured $\sigma(E_\gamma,\theta)$, P′$\gamma(\theta)$. Deduced γ multipolarity.
1969Pa09: ^{10}B(P,P′γ) E=11.4 MeV, measured E_γ. ^{10}B deduced levels.
1969Wa11: ^{10}B(p,p) E=5-13.4 MeV, measured $\sigma(E,\theta)$. Deduced optical model parameters.
1969Wa23: ^{10}B(p,p′) E=5-16 MeV, measured $\sigma(E,E_{P'},\theta)$. Deduced reaction mechanism.
1970Ba05: ^{10}B(pol. p,P) E=50 MeV, measured Wolfenstein D parameter At several angles.
1970Bo17: ^{10}B(p,p) E=3-10.5 MeV, measured $\sigma(E,\theta)$.
1970Sq01: ^{10}B(p,p) E=49.5 MeV, measured $\sigma(E_d,\theta)$, $\sigma(E_t,\theta)$.
1971Wa21: ^{10}B(p,p′) E=3.5-5.0 MeV, measured $\sigma(E,E_P,\theta)$.
1974Ka15: ^{10}B(p,p′) E=35 MeV, measured $\sigma(E_t,E(^3He),E_{P'})$, Q. ^{10}B deduced levels.
1976De15: ^{10}B(p,p′) E=30.3 MeV, measured $\sigma(E_{P'},\theta)$. ^{10}B deduced levels, L, J, π, β.
1977Ph02: ^{10}B(pol. p,P) E=30 MeV, analyzed $\sigma(\theta)$, A(θ). Deduced optical model parameters.
1979Ri12: ^{10}B(P,P′γ) E=2.0-4.1 MeV, measured E_γ, I_γ.
1980Fa07: ^{10}B(p,p),(p,p′) E=35.2 MeV. ^{10}B level deduced β_2.
1983Ve03: ^{10}B(p,p′) E=4.5 MeV, measure pγ-coin. ^{10}B level deduced $T_{1/2}$.
1986De25: ^{10}B(p,p′) E=7 MeV, measured E_γ, I_γ, pair spectra. ^{10}B transition deduced No axion events.
1986Is04: ^{10}B(p,p) $E_{C.M.}$=3.454-15.382 MeV, analyzed data. Deduced anamolous absorption.
1991Kr19: ^{10}B(p,p′) E=7.8 MeV, measured E_γ, I_γ, pγ-coin, β-delayed γ-spectra.
1991Le22: ^{10}B(p,p),(p,p′) E=200 MeV, measured $\sigma(\theta)$. DWA analysis.
1992Ba76: ^{10}B(pol. p,P) E=200 MeV, measured $\sigma(\theta)$, analyzing power, induced polarization, polarization transfer coefficients vs. θ.
1994Mi21: ^{10}B(P,P′γ) E=2.5-3.5 MeV, measured γ yield vs E.
1999Sa16: ^{10}B(p,p′) E=1.0-4.1 MeV, measured E_γ, I_γ, thick target γ-ray yields.
2001Ch78: ^{10}B(p,p) E=0.5-3.3 MeV, measured $\sigma(\theta)$.

^{10}B Levels

E(level)	$T_{1/2}$	L	β_L (1976De15)	Comments
0				
718.5 *2*	0.7070 ns *34*	2	0.67 *5*	E(level): from weighted average of 718.5 keV *2* from E_γ=718.5 keV *2* (1966Fr09), 718.3 keV *4* from (1974Ka15), and 720.4 keV *19* from E_γ=720.1 keV *20* (1969Pa09). Γ: from T_{mean}=1.020 ns *5* (1983Ve03).
1740.1 *6*		(3)		E(level): from weighted average of 1740.0 keV *6* from (1966Fr09) and 1742.3 keV *23* (1969Pa09).
2154.2 *5*	2.7 ps *7*	2	0.49 *4*	E(level): from weighted average of 2154.1 keV *5* (1974Ka15) and 2155.4 keV *19* from E_γ=2155.6 keV *20* (1969Pa09). Γ: from T_{mean}=4.0 ps *10* (1966Fi01).
3587.1 *5*	92 fs *24*	2	0.45 *4*	E(level): from weighted average of 3587.0 keV *5* (1974Ka15) and 3589.7 keV *22* from E_γ=2868.5 keV *20* (1969Pa09). Γ: from T_{mean}=133 fs *35* (1966Fi01).
4774.0 *5*				E(level): from (1974Ka15).
5110.3 *6*		3	0.45 *4*	E(level): from (1974Ka15).
5163.9 *6*				E(level): from (1974Ka15).
5.18×10^3 *1*	110 keV *10*			E(level): from (1962Ar02,1964Ar04). Γ from (1964Ar04).
5919.5 *6*	<5 keV		0.28 *3*	E(level): from (1974Ka15). Γ from (1964Ar04).
6025.0 *6*	<5 keV	2	0.95 *4*	E(level): from (1974Ka15). Γ from (1964Ar04).
6127.2 *7*	<5 keV	3	0.58 *3*	E(level): from (1974Ka15). Γ from (1964Ar04).

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^{10}B(p,p) 1988Aj01 (continued)

^{10}B Levels (continued)

E(level)	$T_{1/2}$	L	Comments
6.55×10^3 *1*	25 keV *5*	3	E(level): from (1962Ar02,1964Ar04). Γ from (1964Ar04).
7.00×10^3 *1*	95 keV *10*		E(level): from (1962Ar02,1964Ar04). Γ from (1964Ar04).
7.48×10^3 *1*	90 keV *15*		E(level): from (1962Ar02,1964Ar04). Γ from (1964Ar04).

γ(^{10}B)

E_γ	I_γ	E_i(level)	E_f	Comments
718.5 *2*	100	718.5	0	E_γ: from (1966Fr09). Also see (1969Pa09) E_γ=720.1 keV *20*.
1021.5 *5*		1740.1	718.5	E_γ: from (1966Fr09). Also see (1969Pa09) E_γ=1022.0 keV *20*.
1435.1 *20*		2154.2	718.5	E_γ: from (1969Pa09).
2155.6 *20*		2154.2	0	
2868.5 *20*		3587.1	718.5	E_γ: from (1969Pa09).

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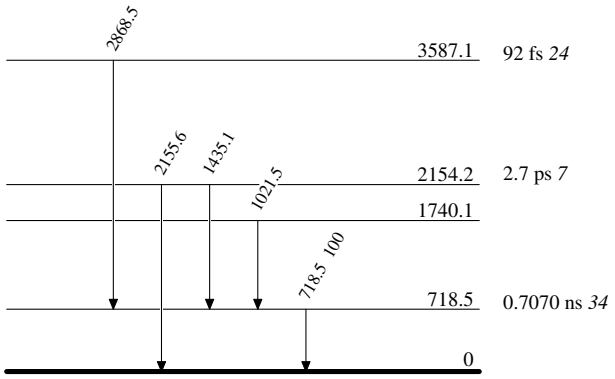
Level Scheme

Intensities: Type not specified



$^{10}_{5}B_{5}$