

$^{11}\text{B}(\text{p},\text{p}')$ 1969Su03,1971Br41,1974Ka15

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu		NP A880,88 (2012)	1-Jan-2011

- 1965Ha17,1969Su03: $^{11}\text{B}(\text{p},\text{p}')$ E=185 MeV, measured $\sigma(E_{\text{p}},\theta)$. ^{11}B deduced levels, Γ -level, L.
- 1968Ge04: $^{11}\text{B}(\text{p},\text{p}),(\text{p},\text{p}')$ E=155 MeV, measured $\sigma(\theta)$, $\text{p}(\theta)$.
- 1969Ka15: $^{11}\text{B}(\text{pol. p}, \text{P}),(\text{pol. p},\text{P}')$ E=30.3 MeV, measured $\sigma(E_{\text{p}},\theta)$, asymmetry(θ).
- 1970Ho07: $^{11}\text{B}(\text{p},\text{p}),(\text{p},\text{p}')$ E=100 MeV, measured $\sigma(E_{\text{p}'},\theta)$. Deduced optical model parameters. ^{11}B levels deduced excitation strengths.
- 1970Hu01: $^{11}\text{B}(\text{P},\text{P}'\gamma)$ E=5.9 MeV, measured $\sigma(\theta_{\text{P}'\gamma})$. Deduced reaction mechanisms. ^{11}B deduced spin sequences.
- 1971Br41: $^{11}\text{B}(\text{p},\text{p}')$ E=14, 15 MeV, measured $\sigma(E_{\text{p}'})$. ^{11}B deduced levels.
- 1974Ka15: $^{11}\text{B}(\text{p},\text{p}')$ E=35 MeV, measured $\sigma(E_{\text{p}'})$, Q. ^{11}B deduced levels.
- 1975Ca08: $^{11}\text{B}(\text{p},\text{p}')$ E=30 MeV, measured $\sigma(E_{\text{p}'},\theta)$. ^{11}B deduced levels.
- 1976Mo19: $^{11}\text{B}(\text{pol. p},\text{P}')$ E=31 MeV, measured polarization transfer.
- 1976Ph01: $^{11}\text{B}(\text{pol. p},\text{P}')$ E=30 MeV, analyzed $\sigma(E_{\text{p}'},\theta)$, A(θ). ^{11}B deduced quadrupole deformation β_2 .
- 1977Mo09: $^{11}\text{B}(\text{pol. p},\text{P}')$ E=32 MeV, measured spin-flip probability, $\sigma(\theta)$.
- 1980Fa07: $^{11}\text{B}(\text{p},\text{p}),(\text{p},\text{p}')$ E=35.2 MeV, measured $\sigma(\theta)$. Deduced optical model parameters. ^{11}B level deduced β_2 .
- 1981Co08: $^{11}\text{B}(\text{pol. p},\text{P}')$ E=31, 32, 35.5, 40, 42 MeV, measured spin-flip probability. Deduced isospin dependence.
- 1983Bo19: $^{11}\text{B}(\text{p},\text{p}')$ E=4.5-7.55 MeV, measured $\sigma(E,\theta)$. Deduced reaction σ .
- 1988Bo37: $^{11}\text{B}(\text{P},\text{P}'\gamma)$ E \approx 2.7-3.8 MeV, measured $\sigma(\theta)$ vs E.
- 1990Bo15: $^{11}\text{B}(\text{P},\text{P}'\gamma)$ E \approx 3.2-3.6 MeV, measured γ yields.
- 2003Ha11: $^{11}\text{B}(\text{pol. p},\text{P}')$, E=150 MeV; measured $\sigma(E,\theta)$, analyzing powers, spin-flip probabilities. ^{11}B deduced transitions B(M1), B(E2).
- 2004Ka53, 2004Ka56: $^{11}\text{B}(\text{pol. p},\text{P}')$, E=392 MeV; measured particle spectra, $\sigma(E,\theta)$, Ay(θ), other polarization observables. ^{11}B deduced isovector and isoscalar spin-flip M1 strengths, Gamow-Teller strength distributions.
- 2005No13: $^{11}\text{B}(\text{POL.p},2\text{p})$, E=392 MeV, measured analyzing powers.

 ^{11}B Levels

E(level)	Comments
0	
2124.7 5	E(level): from (1974Ka15).
4445.2 5	E(level): from (1974Ka15).
5021.1 6	E(level): from (1974Ka15).
6743.0 7	E(level): from (1974Ka15).
6792.6 16	E(level): from (1971Br41): normalized to $E_{\text{x}}=4445.3, 5020.0$ and 6743.4 keV.
7285.6 15	E(level): from (1971Br41).
7978.0 17	E(level): from (1971Br41).
8559.4 19	E(level): from (1971Br41).
8920.2 20	E(level): from (1971Br41).
9185.0 20	E(level): from (1971Br41).
9274.4 20	E(level): from (1971Br41).
10.45×10^3 15	E(level): from (1969Su03).
11.65×10^3 15	E(level): from (1969Su03).
12.85×10^3 10	E(level): from (1969Su03).
15.20×10^3 15	E(level): from (1969Su03).
16.40×10^3 15	E(level): from (1969Su03).

 $^{11}\text{B}(\text{p,p}') \quad \mathbf{1969\text{Su03,1971Br41,1974Ka15 (continued)}$

 $\gamma(^{11}\text{B})$

E_γ	$E_i(\text{level})$	E_f	Comments
2134.5	2124.7	0	from (1957Mc35).

 $^{11}\text{B}(\text{p,p}') \quad \mathbf{1969\text{Su03,1971Br41,1974Ka15}$ Level Scheme