

$^{11}\text{B}(\text{p},\text{n})$ 1965Ov01,1988Ka30

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

- 1965Ov01: $^{11}\text{B}(\text{p},\text{n})$ E = 4.0-11.5 MeV; measured $\sigma(\text{E};\text{En},\theta)$, $Q(\beta^-)$ values. ^{11}C levels, J, π .
- 1969Mo32: $^{11}\text{B}(\text{p},\text{n})$ E not given, measured thresholds.
- 1969Ra36: $^{11}\text{B}(\text{p},\text{n})$ E \approx 20 MeV, surveyed quasi-elastic $\sigma(\theta)$ data.
- 1970C101: $^{11}\text{B}(\text{p},\text{n})$ E=30, 50 MeV, measured $\sigma(\text{E},\text{E}_\text{N},\theta)$. ^{11}C deduced levels, J, π .
- 1972Mo41: $^{11}\text{B}(\text{p},\text{n})$ E=24.5 MeV, measured analyzing power(θ).
- 1976Hi11: $^{11}\text{B}(\text{pol. p},\text{N})$ E=16.3, 21.3, 26.5 MeV, measured transverse polarization transfer coefficient.
- 1976Li08: $^{11}\text{B}(\text{pol. p},\text{N})$ E=7-15 MeV, measured transverse polarization transfer coefficients.
- 1978Va12: $^{11}\text{B}(\text{p},\text{n})$ E=3-4.9 MeV, measured $\sigma(\text{E},\text{E}_\text{N},\theta)$.
- 1979Ba68: $^{11}\text{B}(\text{p},\text{n})$ E=1 GeV, measured $\sigma(\text{E}_\text{N},\theta)$. Deduced dependency of quasi-elastic neutron production on mass.
- 1980Ra16: $^{11}\text{B}(\text{p},\text{n})$ E=3-6 MeV, measured absolute $\sigma(\text{E})$.
- 1981An16: $^{11}\text{B}(\text{p},\text{n})$ E=10.9-27.5 MeV, measured $\sigma(\text{E})$, thick target yields.
- 1981Ho13: $^{11}\text{B}(\text{p},\text{n})$ E=5.4-7.5 MeV, measured $\sigma(\text{E},\theta)$. Deduced direct, resonance effects.
- 1984MuZX: $^{11}\text{B}(\text{pol. p},\text{N})$ E=13-17 MeV, measured $\sigma(\theta)$, analyzing power vs θ .
- 1985Gr09: $^{11}\text{B}(\text{p},\text{n})$ E=16-26 MeV, measured $\sigma(\text{E}_\text{N})$, $\sigma(\theta)$. Deduced residual production σ . ^{11}C levels deduced Gamow-Teller matrix elements. DWA analysis.
- 1986Ai04: $^{11}\text{B}(\text{p},\text{n})$ E<14.7 MeV, measured σ , residuals yields.
- 1986Mu08: $^{11}\text{B}(\text{p},\text{n}),(\text{pol. p},\text{N})$ E=12.77-17.22 MeV, measured $\sigma(\theta)$, analyzing power vs θ . Deduced potential parameters.
- 1988Ka30: $^{11}\text{B}(\text{p},\text{n})$ E=15.8, 18.6 MeV, measured $\sigma(\theta)$. Deduced residual nuclei vertex constants. ^{11}C deduced resonance widths.
- 1989Ra09: $^{11}\text{B}(\text{p},\text{n})$ E=492 MeV, measured $\sigma(\theta,\text{E})$. Deduced unit $\sigma(\text{ratio})$.
- 1990Ta15: $^{11}\text{B}(\text{p},\text{n})$ E=160-795 MeV, measured $\sigma(\text{E}_\text{N},\theta=0^\circ)$. ^{11}C levels deduced Gamow-Teller transition strengths.
- 1994Wa22: $^{11}\text{B}(\text{p},\text{n}),(\text{pol. p},\text{N})$ E=186 MeV, measured $\sigma(\theta,\text{E}_\text{N})$, polarization transfer coefficient, analyzing power vs θ .
- 1995Wa16: $^{11}\text{B}(\text{pol. p},\text{N})$ E=295 MeV, measured $\sigma(\theta)$, polarization coefficient vs excitation energy. Deduced spin-flip strength, effective tensor interactions related features.
- 1995Ya12: $^{11}\text{B}(\text{p},\text{n})$ E=186 MeV, measured $\sigma(\theta,\text{E}_\text{N})$. Deduced quasifree contribution In giant resonance region, $\Delta L=1$ transitions energy spectra.

 ^{11}C Levels

| E(level) | Comments |
|-------------------|--|
| 0 | E(level): from $Q=-2747$ keV 20 (1965Ov01). E(level): Note: the currently accepted $Q=-2764.6$ (2003Au03), excitation energies are relative to $Q=-2747$ keV. |
| 2008 20 | E(level): from $Q=-4755$ keV 20 (1965Ov01). |
| 4320 20 | E(level): from $Q=-7067$ keV 20 (1965Ov01). |
| 4806 20 | E(level): from $Q=-7553$ keV 20 (1965Ov01). |
| 6330 20 | E(level): from $Q=-9077$ keV 20 (1965Ov01). |
| 6481 20 | E(level): from $Q=-9228$ keV 20 (1965Ov01). |
| 6.9×10^3 | E(level): from (1985Sc08). |
| 7.4×10^3 | E(level): from (1985Sc08). |