

$^{11}\text{B}(\text{e},\text{e}') \quad 1962\text{Ed02,1967Sp02,1975Ka02}$ 

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

1962Ed02:  $^{11}\text{B}$ ; measured not abstracted; deduced nuclear properties.

1966Ko08:  $^{11}\text{B}(\text{e},\text{e}')$   $E=50, 60$  MeV, measured  $\sigma(E_{\text{e}'})$ .  $^{11}\text{B}$  deduced levels,  $B(\lambda)$ .

1966St12:  $^{11}\text{B}(\text{e},\text{e})$ ,  $E=198.5, 333, 400$  MeV; measured  $\sigma(\theta)$ .

1967Sp02:  $^{11}\text{B}$ ; measured not abstracted; deduced nuclear properties.

1971Vi01:  $^{11}\text{B}(\text{e},\text{e}')$   $E=600-1150$  MeV, measured  $\sigma(E,E_{\text{e}'})$ . Deduced form factors.  $^{11}\text{B}$  deduced rms radii.

1975Ka02:  $^{11}\text{B}(\text{e},\text{e}')$   $E=52.3-90$  MeV, measured  $\sigma(E,E_{\text{e}'},\theta)$ .  $^{11}\text{B}$  giant resonances, levels deduced  $B(E2)$ ,  $B(M1)$ , form factors.

1979Po06:  $^{11}\text{B}(\text{e},\text{e}')$   $E=121, 186, 120$  MeV, measured Coulomb form factors.

$J^\pi$  from (1966Ko08).

 $^{11}\text{B}$  Levels

E(level)	$J^\pi$	Comments
0	$3/2^-$	$Q=3.72 \text{ fm}^2, \langle r^2 \rangle^{1/2}=2.42 \text{ fm}$ (1966St12). Magnetic elastic scattering at $\theta = 180^\circ$ shows strong M3 effects: the derived ratio of static M3/M1, 2.9 $\text{fm}^2$ 0.2, suggests a j-j coupling scheme for $^{11}\text{B}_{\text{g.s.}}$ .
$2.13 \times 10^3$	$20$	$1/2^-$ $\Gamma_{\gamma 0}=0.159 \text{ eV } 15$
$4.46 \times 10^3$	$20$	$5/2^-$ $\Gamma_{\gamma 0}=0.69 \text{ eV } 5$
$5.03 \times 10^3$	$20$	$3/2^-$ $\Gamma_{\gamma 0}=0.60 \text{ eV } 20$ (1966Ko08), $\Gamma_{\gamma 0}=1.1 \text{ eV } 4$ (1962Ed02), $\Gamma_{\gamma 0}=0.616 \text{ eV } 90$ [M1:0.60 eV 9 /E2:0.016 eV 2] (1967Sp02), 0.73 eV 7 (1975Ka02).
$6.8 \times 10^3$	$2$	$3/2^-$ $\Gamma_{\gamma 0}=1.87 \text{ eV } 12$
$7.3 \times 10^3$		$(5/2^-)$ $\Gamma_{\gamma 0}=1.0 \text{ eV } 5$
$7.9 \times 10^3$	$2$	$3/2^+$ $\Gamma_{\gamma 0}=0.97 \text{ eV } 8$
$8.6 \times 10^3$	$2$	$(3/2)^-$ $\Gamma_{\gamma 0}: \text{from } 1.12 \text{ eV } 32$ [M1:0.72 eV 30/E2:0.40 eV 10 (1966Sp02)], $\Gamma_{\gamma 0}=0.96 \text{ eV } 8$ [M1:0.73 eV 7/E2: 0.23 eV 3] (1975Ka02).
$8.92 \times 10^3$	$20$	$5/2^-$ $\Gamma_{\gamma 0}: \text{from } 5.1 \text{ eV } 12$ (1966Ko08), $\Gamma_{\gamma 0}=4.0 \text{ eV } 6$ (1966Sp02), $\Gamma_{\gamma 0}=4.93 \text{ eV } 50$ (1975Ka02). E(level): see (1975Aj02).
$9.3 \times 10^3$		
$10.6 \times 10^3$	$2$	
$11.3 \times 10^3$	$2$	
$12.2 \times 10^3$	$2$	
$12.65 \times 10^3$	$20$	
$13.0 \times 10^3$	$1$	E(level): from (1975Ka02), also see $E_x=13.00$ MeV 15 (1985Aj01). $\Gamma$ : broad.
$14.55 \times 10^3$	$20$	E(level): see (1985Aj01).
$15.5 \times 10^3$		E(level): from (1975Ka02): $\Gamma$ : broad.
$16.7 \times 10^3$	$2$	E(level): see (1985Aj01).