

$^{10}\text{B}(\text{n},\text{n})$  res **1960Da08**

| Type            | Author                   | History | Citation          | Literature Cutoff Date |
|-----------------|--------------------------|---------|-------------------|------------------------|
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- 1960Da08:**  $^{10}\text{B}(\text{n},\text{n})$ .  
**1970As10:**  $^{10}\text{B}(\text{n},\text{n})$   $E < 130$  keV, measured relative  $\sigma(E)$ .  
**1970Co12:**  $^{10}\text{B}(\text{n},\text{n}),(\text{n},\text{n}')$   $E = 9.72$  MeV, measured  $\sigma(E_{\text{N}'},\theta)$ .  
**1970Va19:**  $^{10}\text{B}(\text{n},\text{n}),(\text{n},\text{n}')$   $E = 14.1$  MeV, measured  $\sigma(E_{\text{N}'},\theta)$ . Deduced optical model parameters.  
**1971La10:**  $^{10}\text{B}(\text{n},\text{n})$   $E = 0.075$ - $2.2$  MeV, measured  $\sigma(E,\theta)$ ,  $P(E,\theta)$ ,  $\sigma(E,E_{\alpha},\theta)$ .  $^{11}\text{B}$  deduced resonances, J,  $\pi$ .  
**1973Co05:**  $^{10}\text{B}(\text{n},\text{n})$   $E = 2.63$  MeV, measured  $\sigma(\theta)$ , polarization.  $^{11}\text{B}$  deduced levels, J,  $\pi$ , L, resonance parameters.  
**1973Ha64:**  $^{10}\text{B}(\text{n},\text{n})$   $1.5 < E < 4.4$  MeV, measured  $\sigma(\theta)$ .  $^{11}\text{B}$  deduced levels, J,  $\pi$ , L, resonance parameters.  
**1974Hy01:**  $^{10}\text{B}(\text{n},\text{n}),(\text{n},\text{n}')$   $E = 14.1$  MeV, measured  $\sigma(E_{\text{N}'},\theta)$ . Deduced optical parameters.  
**1978Kn01:**  $^{10}\text{B}(\text{n},\text{n})$   $E = 4$ - $8$  MeV, measured  $\sigma(E,\theta)$ .  
**1982Gl02:**  $^{10}\text{B}(\text{n},\text{n})$   $E = 8$ - $14$  MeV, measured  $\sigma(\theta)$ . Deduced integrated  $\sigma(E)$ .  
**1983Da22:**  $^{10}\text{B}(\text{n},\text{n})$   $E = 7$ - $15$  MeV, measured  $\sigma(\theta)$ . Deduced spherical optical model parameters.  
**1983Ko17:**  $^{10}\text{B}(\text{n},\text{n})$   $E = \text{slow}$ . Deduced complex spin state scattering lengths, bound atoms.  
**1988Re09:**  $^{10}\text{B}(\text{n},\text{n}),(\text{n},\text{n}')$   $E = 8.25$  MeV, measured neutron spectra.  
**1990Sa24:**  $^{10}\text{B}(\text{n},\text{n}),(\text{n},\text{n}')$   $E = 3$ - $12$  MeV, measured  $\sigma(\theta,E)$ .  $^{11}\text{B}$  deduced levels, J,  $\pi$ , reduced widths. R-matrix analysis.  
**1996Ch33:**  $^{10}\text{B}(\text{n},\text{n})$   $E \leq 200$  MeV, analyzed reaction, total  $\sigma(E)$ .

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

| E(level) <sup>†</sup> | $T_{1/2}$ | Comments          |
|-----------------------|-----------|-------------------|
| $13.2 \times 10^3$    | 260 keV   |                   |
| $14.0 \times 10^3$ ?  |           | $\Gamma$ : Broad. |
| $14.57 \times 10^3$   | 370 keV   |                   |
| $15.2 \times 10^3$    |           |                   |
| $15.75 \times 10^3$   |           |                   |

<sup>†</sup> From **(1960Da08)**. Most subsequent (n,n') studies included analysis of (n, $\alpha$ ) data in their results.