

$^{11}\text{B}(\alpha,\alpha')$ 1967Na06,2005Bu33

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

- 1967Na06: ^{11}B ; measured not abstracted; deduced nuclear properties.
 1968Ka24: $^{11}\text{B}(\alpha,\alpha)$ $E \approx 29.0$ MeV, measured $\sigma(E,\theta)$. Deduced reaction mechanism.
 1972Ot04: $^{11}\text{B}(\alpha,\alpha)$ $E=4-8$ MeV, measured $\sigma(E,\theta)$.
 1972Ra03: $^{11}\text{B}(\alpha,\alpha)$ $E=2-4$ MeV, measured $\sigma(E,\theta)$.
 1976De34: $^{11}\text{B}(\alpha,\alpha),(\alpha,\alpha')$ $E=24$ MeV, measured $\sigma(\theta)$.
 1987Ab03: $^{11}\text{B}(\alpha,\alpha)$ $E=48.7, 54.1$ MeV, measured $\sigma(\theta)$. Deduced model parameters.
 1991Le33: $^{11}\text{B}(\alpha,\alpha)$ $E=1.5-10$ MeV, compiled, reviewed backscattering σ data.
 1996Li62,1996Zh36: $^{11}\text{B}(\alpha,\alpha)$ $E=1.0-5.3$ MeV, measured $\sigma(E,\theta)$. Deduced resonances.
 2005Bu33: $^{11}\text{B}(\alpha,\alpha), (\alpha,\alpha')$, $E=40, 50$ MeV; measured E_α , elastic and inelastic $\sigma(\theta)$; deduced optical model parameters. ^{11}B deduced spectroscopic factors, deformation parameters.
 2008Ka44: $^{11}\text{B}(\alpha,\alpha)$, $E=388$ MeV, measured E_α, I_α . Deduced $\sigma(\theta)$, $B(E0)$. Comparison with DWBA calculations.

 ^{11}B Levels

E(level)	Comments
0	$\beta_2 = -0.60$ 15 (2005Bu33).
2.12×10^3	E(level): populated states from (1967Na06).
4.44×10^3	
5.02×10^3	
6.74×10^3	E(level): Unresolved.
6.79×10^3	E(level): Unresolved.
7.29×10^3	
8.56×10^3	