

$^{10}\text{B}(\text{He},\text{d}):res$

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, C. G. Sheu and J. E. Purcell		NDS 198,1 (2024)	1-Aug-2024

[1965Pa10](#): $^{10}\text{B}(\text{He},\text{d})$ E=3.5-10 MeV; measured $\sigma(\theta)$ for at $E(\text{He})=3.7, 5.8, 7.5, 9.8$ MeV. Mainly focused on the prominent

$E_{\text{res}}=5.8$ MeV state.

[1972Be56](#): $^{10}\text{B}(\text{He},\text{n}), (\text{He},\text{p}), (\text{He},\text{d}), (\text{He},\alpha)$ E=11-19 MeV; measured $\sigma(E,E_n), \sigma(E,E_p), \sigma(E,E_d), \sigma(E,E_\alpha)$, for $\theta=90^\circ$ and 150° and $\sigma(E,E_\alpha)$ for $\theta=30^\circ$ to 150° . Analyzed existing data and deduced resonances at $E_{\text{res}}=5.6, 8.5, 13.5$ MeV.

See also:

[1967Ha20](#): $^{10}\text{B}(\text{He},\text{d})$ and $^{11}\text{B}(\text{He},\text{t})$ E=6-18 MeV, measured thick target yields; deduced $\sigma(E)$. Discussed reaction mechanism.

[1970Bo07](#): $^{10}\text{B}(\text{He},\text{d}), ^{10}\text{B}(\text{He},\text{np})$ E=8, 10, 11 MeV; measured $\sigma(\theta(n+p)), \sigma(E_n, E_p)$. Deduced singlet deuteron emission.

[1976Ga27](#): $^{10}\text{B}(\text{He},\text{d})$ E=1.5-4.6 MeV; measured $\sigma(E)$.

 ^{13}N Levels

E(level)	T _{1/2}	E _{3He} (res) (MeV) [†]	Comments
25.9×10^3		5.6	Γ : Broad. E _{3He} (res) (MeV): From (1972Be56) for d ₀ . See also (1965Pa10) where E _{3He} (res)=5.8 is reported.
32×10^3	≈ 2 MeV	13.5	E _{3He} (res) (MeV): From (1972Be56) for d _{4&5} .

[†] From [\(1972Be56\)](#).