

$^{10}\text{B}(\text{p},\pi^+)$ [1974Da27,1980So05](#)

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

- [1974Da27](#): $^{10}\text{B}(\text{p},\pi^+)$ E=185 MeV, measured $\sigma(E_{\pi^+},\theta)$. ^{11}B deduced levels.
[1976No04](#): $^{10}\text{B}(\text{p},\pi^+)$ E=154, 185 MeV, analyzed form of π NN vertex.
[1979Ho09](#): $^{10}\text{B}(\text{p},\pi^+)$ E=163-186 MeV, measured $\sigma(E_{\pi^+},\theta)$. ^{11}B deduced levels. PWBA, DWBA calculations.
[1979Ma39](#): $^{10}\text{B}(\text{p},\pi^+)$ E=8-16 MeV above threshold, measured inclusive σ . Deduced A-dependence.
[1979Pi06](#): $^{10}\text{B}(\text{p},\pi^+)$ E=140-200 MeV, measured $\sigma(\theta)$. Deduced energy dependence near threshold region.
[1980Di02](#): $^{10}\text{B}(\text{p},\pi^+)$ E=320, 410, 483, 605 MeV, measured $\sigma(\theta_{\pi},E_{\pi})$.
[1980So05](#): $^{10}\text{B}(\text{p},\pi^+)$ E=200 MeV, measured $\sigma(E_{\pi^+})$. Deduced reaction mechanism.
[1981Sj02](#): $^{10}\text{B}(\text{pol. p},\pi^+)$ E=147-159 MeV, measured $\sigma(\theta)$, analyzing power vs θ .
[1985Zi04](#): $^{10}\text{B}(\text{pol. p},\pi^+)$ E=200, 225, 250, 260 MeV, measured $\sigma(\theta)$, analyzing power vs θ , $\sigma(E_{\pi^+})$.
[1988Ab05](#): $^{10}\text{B}(\text{p},\pi^+)$ E=1 GeV, measured $\sigma(\theta)$ vs pion momentum. Deduced reaction mechanism.
[1995Bb15](#): $^{10}\text{B}(\text{p},\pi^+)$ E=209, 247, 364 MeV, measured pion spectra, $\sigma(\theta,E_{\pi})$.

 ^{11}B Levels

E(level)	Comments
0	
2.15×10^3 10	E(level): from (1974Da27) who observed $^{11}\text{B}^*(0, 2.12, 4.4+5.0)$. Others from (1980So05).
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	
8.0×10^3	
8.56×10^3	
8.92×10^3	
9.19×10^3	E(level): Unresolved.
9.28×10^3	E(level): Unresolved.