

Investigation of the excited states of ^{11}B nucleus

Of particular interest from the point of view of studying excited neutron halo-states of light nuclei are the states of ^{11}B nucleus, where both "exotic" cluster configuration ($2\alpha+t$), and the shell model structure can co-exist at the same time. Indeed, several studies have suggested that low-lying states of ^{11}B , basically, have a shell structure, while the cluster structures are easily traced in the states with negative parity above or near the threshold of breakup into clusters.

The work is devoted to experimental and theoretical study of charged light particles elastic and inelastic scattering processes from ^{11}B nuclei by measuring differential cross sections of these processes and their further analysis.

Primary author: Mr JANSEITOV, Daniyar (BLTP)

Presenter: Mr JANSEITOV, Daniyar (BLTP)

Track Classification: Experimental Nuclear Physics