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Investigation of the excited states of 11B nucleus

Of particular interest from the point of view of studying excited neutron halo-states of light nuclei are the states of 11B nucleus, where both "exotic"cluster configuration (2α+t), and the shell model structure can co-exist at the same time. Indeed, several studies have suggested that low-lying states of 11B, 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 11B nuclei by measuring differential cross sections of these processes and their further analysis.

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