Study of interaction of charged light particles with 1p shell nuclei

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The study of interaction of light particles with nuclei is one of the main sources of information about the properties of atomic nuclei and provides the possibility of obtaining extensive nuclear data, such as mechanism of nuclear-nuclear interaction, structure of the colliding systems. An important aspect is to know the intensity of the nuclear interaction in different situations and their potential.

The thesis is devoted to experimental and theoretical study of charged light particles elastic and inelastic scattering processes from $^9$Be, $^{11}$B, $^{13}$C nuclei by measuring differential cross sections of these processes and their further theoretical analysis.