

Single ionization of helium atom by protons in the parabolic quasi-Sturmian approach

Tuesday 2 July 2024 10:40 (20 minutes)

Singly ionizing ion-atom collisions are investigated theoretically. A parabolic quasi-Sturmian approach is applied to the single ionization of helium atom by intermediate- and high-energy protons. The fully differential cross sections (FDCSs) are calculated for 1 MeV and 75 keV protons.

Section

Nuclear structure: theory and experiment

Primary author: POPOV, Yuri (Nuclear Physics Inst., Moscow State Univ., BLTP JINR)

Presenter: POPOV, Yuri (Nuclear Physics Inst., Moscow State Univ., BLTP JINR)

Session Classification: Nuclear structure: theory and experiment