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Proton-3He elastic scattering at intermediate energies

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Few nucleon systems offer good opportunities to investigate nuclear interactions. The recent topic of few-nucleon systems is to explore the properties of three-nucleon forces. We performed proton-3He elastic scattering at incident proton energies of 65 and 100 MeV with a polarized proton beam in conjunction with the polarized 3He target system. In the conference, we present the data in comparison to the rigorous numerical calculations of four-nucleon scattering based on the various nuclear potentials.

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