

FEW-BODY STUDIES AT NUCLOTRON-JINR

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Recent results on the deuteron analyzing powers in dp - elastic scattering obtained at Nuclotron (JINR, Dubna) [1] are compared with the calculations performed within relativistic multiple scattering model. The data demonstrate strong deviation from the predictions at large angles in the cms.

The preliminary data on the energy dependence of the cross section and in the $dp \rightarrow ppn$ reaction at 150-250 MeV/nucleon for different configurations and dp elastic scattering up to 1 GeV obtained at internal target station at Nuclotron will be reported. The prospects of the further few-body studies at JINR will be discussed.

[1] P.K.Kurilkin et al., Phys.Lett. B715 (2012) 61.

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