

# Experiments on the study of deuteron-proton interaction at intermediate energy at Internal Target at Nuclotron

S.M. Piyadin<sup>(a)</sup>, Yu.V. Gurchin<sup>(a)</sup>, P.K. Kurilkin<sup>(a)</sup>, A.Yu. Isupov<sup>(a)</sup>, K. Itoh<sup>(c)</sup>, M. Janek<sup>(a,d)</sup>, J.T. Karachuk<sup>(a,e)</sup>, T. Kawabata<sup>(b)</sup>, A.N. Khrenov<sup>(a)</sup>, A.S. Kiselev<sup>(a)</sup>, V.A. Kizka<sup>(a)</sup>, V.A. Krasnov<sup>(a)</sup>, A.K. Kurilkin<sup>(a)</sup>, V.P. Ladygin<sup>(a)</sup>, N.B. Ladygina<sup>(a)</sup>, A.N. Livanov<sup>(a)</sup>, Y. Maeda<sup>(f)</sup>, A.I. Malakhov<sup>(d)</sup>, G. Martinska<sup>(a)</sup>, S.G. Reznikov<sup>(a)</sup>, S. Sakaguchi<sup>(b)</sup>, H. Sakai<sup>(b,g)</sup>, Y. Sasamoto<sup>(b)</sup>, K. Sekiguchi<sup>(h)</sup>, M.A. Shikhalev<sup>(a)</sup>, K. Suda<sup>(h)</sup>, T. Uesaka<sup>(b)</sup>, T.A. Vasiliev<sup>(a)</sup>, H. Witała<sup>(i)</sup>

<sup>(a)</sup> LHEP-JINR, Dubna, Moscow region, Russia

<sup>(b)</sup> Center for Nuclear Study, University of Tokyo, Tokyo, Japan

<sup>(c)</sup> Saitama University, Saitama, Japan

<sup>(d)</sup> P.J.Safarik University, Kosice, Slovakia

<sup>(e)</sup> Advanced Research Institute for Electrical Engineering, Bucharest, Romania

<sup>(f)</sup> Kyushu University, Japan

<sup>(g)</sup> Department of Physics, University of Tokyo

<sup>(h)</sup> Institute for Physical and Chemical Research (RIKEN), Saitama, Japan

<sup>(i)</sup> Jagiellonian University, Kraków, Poland

The experimental program on the study of deuteron-proton interaction at Internal Target at Nuclotron is discussed. Recent results on the deuteron vector and tensor analyzing powers in dp-elastic scattering obtained at intermediate energies are presented. The status of the DSS (Deuteron Spin Structure) setup upgrade is reported.

E-mail:

piyadin@jinr.ru