

## Proton polarimeter for the experiments at the Nuclotron

*Wednesday 22 September 2021 14:45 (25 minutes)*

Terekhin A.A.1, Ladygin V.P.1, Piyadin S.M.1, Khrenov A.N.1, Isupov A.Y.1, Reznikov S.G.1, Gurchin Y.V.1, Janek M.2, Tishevsky A. V. 1, Volkov I. S.

1 Joint Institute for Nuclear Research, Dubna, Russia;

2 Physics Department, University of Zilina, Zilina, Slovakia;

E-mail: aterekhin@jinr.ru

The polarimeter upgrade program at the Nuclotron for the experiments at the internal target are presented. This polarimeter is intended for measurements of the proton and deuteron polarisation. The simulation of the pd-elastic and pp-elastic scattering for 500 - 1000 MeV proton energy are performed. The results of the first test of the new detectors are presented.

**Primary author:** TEREKHIN, Arkadii (JINR)

**Co-author:** LADYGIN, Vladimir (JINR)

**Presenter:** TEREKHIN, Arkadii (JINR)

**Session Classification:** Section 3. Modern nuclear physics methods and technologies

**Track Classification:** Section 3. Modern nuclear physics methods and technologies.