Contribution ID : **95** Type : **Oral talk**

SPRINT project at NICA

Wednesday, 28 October 2026 15:50 (20)

The study of the spin effects and polarization phenomena in hadronic reactions requires the development of high intensity polarized beams, polarized targets, beam and focal polarimetry, systems of the spin manipulation and control as for the current spin experiments at the fixed targets as well as for the planned SPD experiment in collider mode at the Nuclotron/NICA complex. The main goals of the SPRINT@NICA project is to provide the spin transparency regime for polarized protons and deuterons over whole energy range of Nuclotron and NICA, further development of the Source of Polarized Ions with corresponding deuteron and proton beam polarimeters, development of the polarized 3He target and beam. The extension of the spin program to the search of axion-like particles, measurement of the EDM with beams of polarized protons and deuterons is planned. First line experiments on the deteron and proton spin manipulation are discussed.

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Session Classification : Facilities and advanced detector technologies

Track Classification : Facilities and advanced detector technologies