



Contribution ID: 36

Type: not specified

Protons and Deuterons Polarization Control in the Transparent Spin Mode of the NICA collider

Friday, 7 June 2019 09:45 (15 minutes)

The NICA collider with two solenoidal snakes allows one to operate with polarized protons and deuterons in the Transparent Spin mode when any polarization direction repeats after particle's each turn, which means that the magnetic lattice of the collider is transparent to the spin. The schemes of protons and deuterons beam polarization control in SPD/MPD detectors are presented. Spin-flipping systems, as well as on-line polarization monitoring systems, are discussed which make it possible to carry out the experiments with polarized beams at the NICA collider at the new level of the accuracy.

Presenter: Dr FILATOV, Yury (MIPT)

Session Classification: Session 8