Contribution ID: 88 Type: Oral

Low energy polarimeters at the JINR acceleration complex

To produce high-intensity polarized beams of deuterons and protons, the Laboratory of High Energy Physics (LHEP) at JINR is developing a Source of Polarized Ion (SPI).

Within the framework of the SPI project, low-energy polarimeters are being developed to measure degree of polarization during beam transport at energies up to 5 MeV/n. These include:

- An NRP (Nuclear Reaction Polarimeter) is for optimizing the operation of nuclear polarization RF-units and vertical spin orientation at the SPI output, including the linear accelerator section
- A ³He 4He polarimeter for measuring polarization parameters at the outlet of the 5 MeV/n linear accelerator

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