

Status of Spin Physics Detector at NICA

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The Spin Physics Detector (SPD) is one of the two large setups at the NICA collider under construction at JINR (Dubna). The ultimate goal of the studies at SPD is measurement of different spin observables in polarized proton-proton, deuteron-deuteron and proton-deuteron collisions sensitive to the polarized gluonic structure of the nucleon at the luminosity up to $10^{32} \text{ cm}^{-2} \text{ s}^{-1}$ and \sqrt{s} up to 27 GeV.

SPD will consist of the superconducting magnetic system, silicon tracker based on the DSSD and MAPS technologies, straw mini-drift tubes tracker, time-of-flight system, electromagnetic «shashlyk»-type calorimeter, muon (range) and local-polarimetry systems. The high performance free-streaming DAQ system will be able to operate at the collision rate up to 4 MHz.

TIPP2020 abstract resubmission?

No, this is an entirely new submission.

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