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Spin Physics Detector at NICA

The SPD (Spin Physics Detector) is a planned spin physics experiment in the second interaction point of the NICA collider that is under construction at JINR. The main goal of the experiment is the test basics of the QCD via the study of the polarized structure of the nucleon and spin-related phenomena in the collision of longitudinally and transversely polarized protons and deuterons at the center-of-mass energy up to 27 GeV and luminosity up to $10^{32} \text{ 1/(cm}^2 \text{ s)}$. Detector design, physics research program, and the current status of the SPD project will be presented. Special attention will be paid to the DAQ, computing system, and offline software, capable to deal with the high data rate, reaching 0.2 Tbit/s at the maximum design luminosity

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