

# Welcome to NICA days 2019 and IVth MPD Collaboration Meeting in Warsaw



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## Concept of the Spin Physics Detector

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The study of the spin effects and polarization phenomena at NICA at high luminosity (up to  $10^{32} \text{ cm}^{-2} \text{ s}^{-1}$ ) of longitudinally and transversely polarized proton and, especially, deuteron beam collision requires the development of Spin Physics Detector (SPD) placed at the second interaction point of the collider. SPD consists of the superconducting magnetic system, inner silicon tracker, straw tube tracker, particle identification system, electromagnetic calorimeter and muon range system. The free-streaming DAQ system will allow to store about 4 MHz events. The progress in the development of different SPD subsystems is presented.

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