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Title: Spin physics experiments at NICA – SPD with polarized proton and deuteron beams.

Presentation: Oral

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ABSTRACT

Measurements of asymmetries in the inclusive and exclusive production of Lepton pairs (DY pairs) in collisions of non-polarized, longitudinally and transversally polarized proton and deuteron beams are suggested to be performed at the NICA collider of the JINR using the specialized Spin Physics Detector. These measurements can provide an access to all leading twist collinear and TMD PDFs of quarks and anti-quarks in nucleons. Status of NICA and SPD project will be reported.