

Physics with charmonia at the SPD experiment

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The SPD experiment is planned to operate at the second interaction point of the NICA facility, which is under construction at the JINR. The primary goal of the experiment is a comprehensive study of the polarized and unpolarized gluon structure of proton and deuteron in polarized pp , dd , and pd collisions at \sqrt{s} up to 27 GeV and luminosity up to $10^{32} \text{cm}^{-2} \text{s}^{-1}$. Several complementary experimental probes will be available: charmonia, open charm, and prompt photons. In this talk, the experiment will be briefly introduced and prospects of measurements with charmonia will be discussed.

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Session Classification: Day 1 (mostly inclusive reactions)

Track Classification: Reactions with polarisation & tools for TMD functions, spin asymmetries,...