

New Trends in High-Energy Physics



Contribution ID: 3

Type: **not specified**

Study of polarised gluon structure of proton via prompt photon production in the SPD experiment at the NICA collider.

Photons produced in the hard scattering of partons, named the prompt photons, provide information about the internal structure of hadrons.

NICA collider has possibility to provide new data to study the production of the prompt photons in the non-polarized and polarized proton-proton collisions which give an access to spin-dependent parton distribution functions for gluons (like helicity, Sivers).

Unpolarized and polarized physics with prompt photons and possibilities of the SPD detector in such measurements will be discussed in this content.

Primary author: RYMBEKOVA, Aierke

Presenter: RYMBEKOVA, Aierke

Session Classification: NICA & FAIR

Track Classification: Default