

## Diffraction leptoproduction of $\rho$ and $\phi$ light vector mesons via small- $x$ unintegrated gluon density

*Tuesday, 26 November 2019 14:30 (20 minutes)*

The unintegrated gluon distribution (UGD) provides the description of the gluon content in the proton in the high-energy regime and it is formulated in  $\kappa_T$ -factorization approach. In this theoretical framework, the helicity amplitude is a convolution of the UGD in the proton with the impact factor, which depends on the considered process and where the structure of the meson is encoded by distribution amplitude (DA).

We apply  $\kappa_T$ -factorization approach, exploiting two different UGD models, in order to give predictions for polarized cross sections  $\sigma_L$  and  $\sigma_T$  of two interesting channels: the leptoproduction of  $\rho$  and  $\phi$  mesons. We compare results with H1 and ZEUS measurements.

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