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kT-dependence of the unintegrated gluon distribution in rho-meson leptonproduction

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The gluon content of the proton, in the high-energy regime, is embodied by the unintegrated gluon distribution (UGD), which describes the probability that a gluon can be emitted by a colliding proton, with a given longitudinal momentum fraction and transverse momentum. The UGD, which is formulated within the kt-factorization approach, has universal validity and several models for it have been proposed so far. We will show that the polarized ρ -meson leptonproduction at HERA is a not trivial textfield for discriminating among existing models of UGD.

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