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Forward particle productions in proton-nucleus collisions at the LHC

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We present the current theory status on the particle productions in the forward region in proton-nucleus collisions based on the Color Glass Condensate framework. We use the factorized formula, where the proton is described with the collinear parton distributions while the nuclear side with the unintegrated gluon distributions (uGD). The uGD is obtained from the x -evolution equations and parameters are fixed by Albacete et al. using HERA data. The transverse geometry of the target is described with the random sampling of the nucleons with Woods-Saxon distribution.

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