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Charm decay leptons in pA collisions within the CGC framework

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We compute electron and muon productions from the charm semileptonic decays in proton-lead collisions at the LHC within the Color Glass Condensate framework. At the LHC energies, open heavy flavor and quarkonium productions are expected to have an access to the small- x region of hadronic wavefunctions, where the nonlinear character of the dense gluon system becomes manifest. Leptonic channels of heavy flavor decays are important observables, but the information on the small- x gluons are relatively indirect there. In this presentation, we will show electron and muon spectra of heavy-flavor decays at low- P_{\perp} and their two-particle correlations. We will discuss in which kinematical region the saturation effects are well reflected in the lepton distributions.

On behalf of collaboration:

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