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Forward J/ψ production in high energy proton-nucleus collisions

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Forward J/ψ production and suppression in high energy proton-nucleus collisions can be an important probe of gluon saturation. We study this process in the Color Glass Condensate framework and show that using the Glauber approach to extrapolate the dipole cross section of a proton to a nucleus leads to results closer to experimental data than previous calculations in this framework. We also investigate the centrality dependence of the nuclear suppression in this model and show a comparison of our results with recent LHC data.

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