High Energy Physics - Phenomenology

Vector Meson Production in Coherent Hadronic Interactions: An update on predictions for RHIC and LHC

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In this letter we update our predictions for the photoproduction of vector mesons in coherent pp and AA collisions at RHIC and LHC energies using the color dipole approach and the Color Glass Condensate (CGC) formalism. In particular, we present our predictions for the first run of the LHC at half energy and for the rapidity dependence of the ratio between the J/Ψ and ρ cross sections at RHIC energies.

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