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Inclusive hadron and photon production at LHC in dipole momentum space

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Using a momentum space model for the dipole scattering amplitude we present an analysis of the saturation effects at LHC energies, describing the data on proton-proton and proton-lead collisions. The model is based on the asymptotic solutions of the Balitsky-Kovchegov equation, being ideal in the saturation domain where the target wave function has a high occupation number. We also make predictions for the nuclear modification ratios on charged hadron and prompt photon production in the forward region, where the high parton density effects are important.

Primary authors: SALGADO LOPEZ, Carlos Albert (Universidade de Santiago de Compostela (ES)); Prof. GAY DUCATI, Maria Beatriz (UFRGS)

Co-authors: Dr BASSO, Eduardo André (UFRGS); Dr DE OLIVEIRA, Emmanuel (USP)

Presenter: Prof. GAY DUCATI, Maria Beatriz (UFRGS)

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