

Dijet production as a probe of dense partonic system

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In order to investigate structure of Pb nuclei at high energies we study forward dijet production in p-Pb hadronic collisions.

We propose a framework for evaluating cross section for production of forward dijets that encompasses Color Glass Condensate and high energy factorization effects and is therefore applicable regardless of the magnitude of transversal momenta of produced jets.

The framework is based on the generalization of the Transversal Momentum Dependent Factorization formula for dijet production.

Furthermore we provide fenomenological results for nuclear modification ratios using the developed framework.

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