

Probing QCD at high energy via correlations

Abstract content

After a brief introduction to particle production in perturbative QCD (pQCD) and collinear factorization, we argue that collinear factorization breaks down at high energy due to high gluon density effects. We develop an effective theory of QCD at high energy, known as the Color Glass Condensate and give an overview of its probes and signatures in high energy hadronic/nuclear collisions in RHIC and LHC.

Summary

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