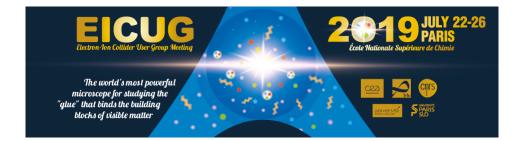
## 2019 EIC User Group Meeting



ID de Contribution: 27

Type: Oral presentation

## Toward a unified description of high energy cross sections at both small and large Bjorken x

*jeudi 25 juillet 2019 12:12 (15 minutes)* 

Perturbative evolution of QCD cross sections is governed by the DGLAP evolution of parton distribution and fragmentation functions. This formalism breaks down at small Bjorken x (high energy) due to high gluon density (gluon saturation) effects. The Color Glass Condensate (CGC)

formalism is an effective action approach to QCD at

small Bjorken x which includes gluon saturation. The CGC

formalism nevertheless breaks down at intermediate/large Bjorken x. Here we describe the first steps taken towards the

derivation of a new approach, with the ultimate goal of having a

unified formalism for calculation of QCD cross sections at both large and small Bjorken x. Application of the new approach to calculation of observables in EIC will be discussed.

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Classification de Session: Parallel session B

Classification de thématique: Physics