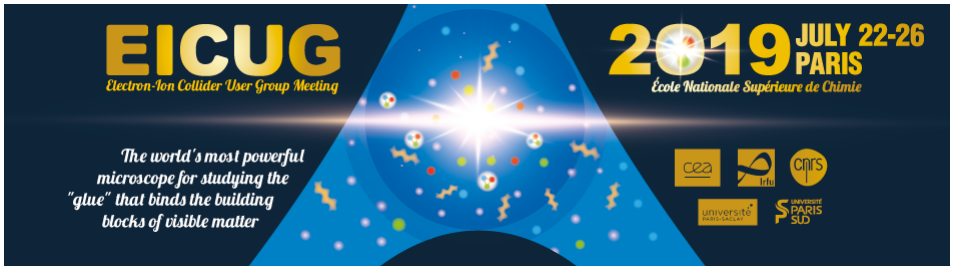


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# Toward a unified description of high energy cross sections at both small and large Bjorken x

*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.

**Auteur principal:** JALILIAN-MARIAN, Jamal (Baruch College, CUNY)

**Orateur:** JALILIAN-MARIAN, Jamal (Baruch College, CUNY)

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