



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.

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

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

Classification de Session: Parallel session B

Classification de thématique: Physics