Organisé conjointement par
CPHT-École Polytechnique et Groupe Théorie IPN Orsay

SÉMINAIRE de PHYSIQUE des PARTICULES

Jamal Jalilian-Marian
(City University of New York)

Polarized parton production in DIS at small x

Résumé :
We utilize spinor helicity techniques to calculate the production of three polarized partons in DIS at small x using the Color Glass Condensate formalism. We show that the azimuthal angular correlations between the produced partons is a sensitive probe of the dynamics of the proton/nucleus wavefunction at small x and gluon saturation. Extensions of the results to MPI as well as ultra-peripheral heavy-ion collisions will be discussed. We will finish by speculating on possible applications of the methods/results to energy loss phenomena in head-on (central) high-energy heavy-ion collisions.

Jeudi 15 Décembre 2016

11:00

Salle de conférences, bât. 6