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

SÉMINAIRE de PHYSIQUE des PARTICULES

Cedric Mezrag
(INFN, Roma)

Exploring the nucleon structure

Résumé :
Understanding the emergence of the nucleon structures in terms of QCD degrees of freedom, i.e. quarks and gluons, is one of the major challenges of hadron physics. Two main types of non-perturbative techniques have been developed to tackle this challenge, discretised ones using large computer simulations (LQCD), and continuum ones relying on Dyson-Schwinger equations (DSEs). The latter suggest for instance that dynamical diquarks are generated inside the nucleon, creating effective degrees of freedom. Since both LQCD and DSEs techniques can be used in order to compute local matrix elements related to the structures of the Nucleon through for instance Distributions Amplitudes (DAs), we will explore in this talk the possibility of understanding the nucleon structure in terms of dynamical degrees of freedom.

Vendredi 15 Décembre 2017

14:00

Salle de conférences Louis Michel, bât. 6