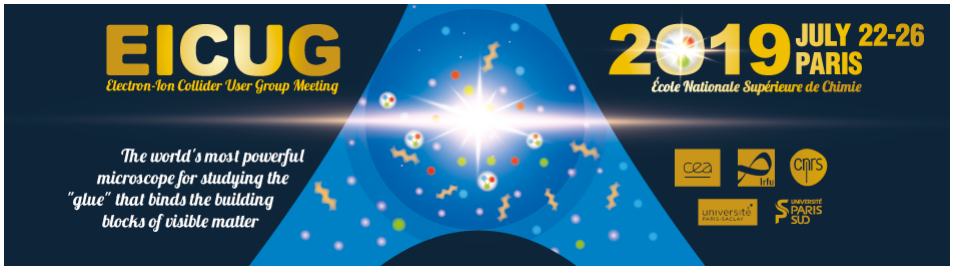

ID de Contribution: **46** Type: **Oral presentation**

The HEP implications of an EIC

jeudi 25 juillet 2019 11:36 (15 minutes)

With its high luminosity and wide kinematic coverage, the electron-ion collider (EIC) will be principally dedicated to unraveling vexing issues in QCD. In particular, these include a thorough tomographic mapping of the nucleon's internal structure as well as investigations of the quark-hadron transition, searches for the appearance and dynamics of gluon saturation, and studies of the nuclear environment. At the same time, this wealth of information will not be relegated purely to hadronic or nuclear physics, but will be accompanied by serious advances relevant for high-energy programs at the LHC and beyond. In this talk, I will provide an overview of the physics motivation for the EIC and its importance for future efforts along the energy frontier.

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Classification de Session: Parallel session B

Classification de thématique: Physics