Type: Parton Distributions and soft QCD

## Damping the energy-rise of the proton-proton cross section: interplay of perturbative and nonperturbative effects

Monday, 28 August 2017 12:00 (30 minutes)

The impact of nonlinear interaction effects on the total proton-proton cross section is studied. In particular, the relative roles of the perturbative and nonperturbative parton splitting mechanisms are investigated. Additionally, the importance of dynamical higher twist corrections to parton production processes is demonstrated.

Primary author: OSTAPCHENKO, Sergey (Frankfurt Institute for Advanced Studies (FIAS))

Presenter: OSTAPCHENKO, Sergey (Frankfurt Institute for Advanced Studies (FIAS))

Session Classification: Parton Distribution Functions and Soft QCD