Contribution ID: **181** Type: **Parallel**

Parton Distribution Functions with Intrinsic Charm and Other News from CTEQ

Friday, 1 June 2018 14:30 (20 minutes)

We investigate the possibility of a (sizable) nonperturbative contribution to the charm parton distribution function (PDF) in a nucleon, theoretical issues arising in its interpretation, and its potential impact on LHC scattering processes. We discuss separation of the universal component of the nonperturbative charm from the rest of the radiative contributions and estimate its magnitude in the CTEQ global QCD analysis at the next-to-next-to leading order in the QCD coupling strength, including the latest experimental data from HERA and the Large Hadron Collider.

E-mail

mguzzi@kennesaw.edu

Collaboration name

CTEQ-TEA

Primary author: Dr GUZZI, Marco (Kennesaw State University)

Presenter: Dr GUZZI, Marco (Kennesaw State University)

Session Classification: Parton and Gluon Distributions in Nucleons and Nuclei

Track Classification: PGDNN