



Contribution ID: 509

Type: **Parallel Session Talk**

Parton Distributions at the dawn of the LHC

Thursday, 22 July 2010 14:15 (18 minutes)

I review the current status of knowledge of the parton distributions (PDF) of the nucleon, with particular emphasis on recent progress on the determination of PDF uncertainties and on theoretical and phenomenological issues which limit the current PDF accuracy. I then discuss the implications of PDF uncertainties on LHC processes, with specific references to standard candles and Higgs production.

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Session Classification: 04 - Hadronic Structure, Parton Distributions, soft QCD, Spectroscopy

Track Classification: 04 - Hadronic Structure, Parton Distributions, soft QCD, Spectroscopy