

XXIV International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS16)



Contribution ID: 167

Type: **not specified**

The PDF4LHC 2015 recommendations for Run II

Tuesday, April 12, 2016 12:00 PM (15 minutes)

We present an updated recommendation for the usage of sets of parton distribution functions at the LHC Run II. We propose a new prescription for the combination of a suitable subset of the available PDF sets, which is presented in terms of a single combined PDF set. We discuss tools which allow for the delivery of this combined set in terms of optimized sets of Hessian eigenvectors or Monte Carlo replicas, and their usage, and provide some examples of their application to LHC phenomenology, with particular emphasis on the implications of the PDF4LHC15 combined sets Higgs physics.

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Session Classification: WG1 Structure Functions and Parton Densities

Track Classification: Structure Functions and Parton Densities