XXVI International Workshop on Deep Inelastic Scattering and Related Subjects



Contribution ID: 245

Type: not specified

ePump, the Error PDF Updating Method Package

Wednesday 18 April 2018 17:42 (18 minutes)

The LHC is bringing us lots of very precise measurements. The calculation of the corresponding theoretical prediction with the same precision is very time consuming in general. It is then a very challenge work to study the impact on Parton Distribution Functions(PDFs) from the precision measurements efficiently. We propose to boost the procedure by using ePump, the Error PDF Updating Method Package, a set of classes, functions, etc. for analyzing the impact of new data on the PDF predictions and uncertainties, in the Hessian method.

Authors: Dr YUAN, C.–P. (Michigan State University); Dr SCHMIDT, Carl (Michigan State University); Dr PUMPLIN, Jon (Michigan State University); Dr DULAT, Sayipjamal (Xinjiang University); Dr HOU, Tie-Jiun (Xinjiang University)

Presenter: Dr HOU, Tie-Jiun (Xinjiang University)

Session Classification: WG1: Structure Functions and Parton Densities

Track Classification: WG1: Structure Functions and Parton Densities