**XLV International Symposium on Multiparticle Dynamics** 

Contribution ID: 106

Type: Oral Presentation

## **Recent progress in PDF set combinations for the LHC**

Thursday, 8 October 2015 16:25 (20 minutes)

The current PDF4LHC recommendation to estimate uncertainties due to parton distribution functions (PDFs) in theoretical predictions for LHC processes involves the combination of separate predictions computed using PDF sets from different groups, each of which comprises a relatively large number of either Hessian eigenvectors or Monte Carlo (MC) replicas. We present a strategy for the statistical combination of individual PDF sets, followed by different reduction algorithms to end up with a small number of either Hessian eigenvectors or MC replicas. We illustrate our strategy with the combination of the recent NNPDF3.0, CT14 and MMHT14 NNLO PDF sets.

Primary author: Dr BUCKLEY, Andy (University of Glasgow)Presenter: Dr BUCKLEY, Andy (University of Glasgow)Session Classification: Proton Structure from ep and pp

Track Classification: Proton Structure from ep and pp