

Introduction 4/7/2010

PDF4LHC meeting

- This meeting:
 - Result of optimizing between all experiments' weeks, Higgs workshop, ICHEP frenzy...
 - Sunday is not optimal of course...
- Next Meeting
 - First week of October/Trento. Shall we use that at least as a 'special meeting'
- Need for a meeting in between (end of August)
- DESY volunteered for a future meeting

PDF4LHC Recommendation

- Distributed to the experiments
 - Some confusion at the end due to Islandic Volcano activities earlier this year
- Available on the PDF4LHC web page
- For NLO and NNLO
- Supporting note being finalized (see Joey's talk)
- Dynamic activity, but something is needed right now.

Recommendation for LHC cross section calculations

The LHC experiments are currently producing cross sections from the 7 TeV data, and thus need accurate predictions for these cross sections and their uncertainties at NLO and NNLO. Crucial to the predictions and their uncertainties are the parton distribution functions (PDFs) obtained from global fits to data from deep-inelastic scattering, Drell-Yan and jet data. A number of groups have produced publicly available PDFs using different data sets and analysis frameworks. Given the necessity of having an *official* recommendation from the PDF4LHC working group available on a short time frame, the prescription outlined at the the link below has been adopted. This is not intended to be an ideal or a final prescription, but is considered to be reasonably conservative and reasonably easy to implement. Further improvements and further standardizations are planned for future updates.

- Download the [full recommendation](#) for further information.

PDF4LHC Recommendation

- Tomorrow more details on the Higgs Meeting
- Experiments: Are they adopting it?
 - CMS: plan to adopt for the official cross section table
 - Q: what about scale uncertainties vs PDFs (HN discussion)
- Follow up in discussion part end of the day