

LHC EW WG 2: Jets and EW bosons

- Conveners:
 - ATLAS: Eram Rizvi, Heberth Torres
 - CMS: Hannes Jung, Anastasia Grebenyuk
 - LHCb: Stephen Farry, Will Barter
 - TH: Marek Schoenherr

- further reading: [WG Twiki](#)

Meeting dates and organization

- next general LHCEW working group meeting: 13-14 Dec 2018, CERN
- next meetings for Jets & Bosons:
 - every 2nd week
 - Tuesday 15-17
- Tuesday 13. Nov, 15-17
 - reports on POWHEG, MC@NLO
- dedicated meeting on correlations:
 - reports from Louie (correlations in Rivet/Hepdata)

News


- MPI@LHC in Perugia 10 – 14.Dec 2018
 - overlaps with DEC meeting of LHCEW
 - submitted abstract for LHC tune talk at [MPI@LHC](#)
 - proposal speaker: Paolo Gunnellini
- new PDFs available from NNPF:
 - J. Rojo will present the new pdfs in one of the next meetings
 - new determination of the gluon PDF at small-x which combines both the most updated experimental constraints (charm production in LHCb) and theory calculations (BFKL resummation).
 - Torbjorn suggested to use these sets as default in Pythia8, since they tick all the boxes (stable, smooth behaviour up to very small-x, small PDF uncertainties, rising central value, while having NNLO accuracy for the large-x, large-Q observables).
 - NNPDF3.1sx+LHCb PDF now available as internal sets in Pythia8
 - Dec 13 is meeting with PDF4LHC, maybe we could have him also at our meeting


Plan for December meeting


- What can be achieved for December meeting:
 - benchmark xsections and understanding of theory predictions
 - have a full set of benchmark xsections from 2 generators (at the moment POWHEG and SHERPA)
 - have recommendations for theory predictions
- LHC tune
 - have first steps for LHC tune
 - what should/could be tuned
 - clear goals and prospects
- Correlations
 - have first recommendations on storing syst corr on hepdata
 - one of next meeting dedicated on this

WG 2: Agenda for today

LHC-EW WG: Jets and EW bosons

 Tuesday 30 Oct 2018, 15:00 → 17:10 Europe/Zurich

 CERN

Videoconference Rooms  LHC-EW_WG__Jets_and_EW_bosons

15:00 → 15:10 **Intro**

15:10 → 15:30 **Understanding calculation: HERWIG**
Speaker: Johannes Bellm (Lund)

15:30 → 15:50 **Understanding calculation: SHERPA**
Speakers: Enrico Bothmann (University of Edinburgh), Enrico Bothmann

Appendix
