LHC EW WG 2: Jets and EW bosons

- Conveners:
 - ATLAS: Ben Nachman, Heberth Torres
 - CMS: Vieri Candelise, Hannes Jung,
 - LHCb: Stephen Farry, Will Barter
 - TH: Marek Schoenherr

further reading: WG Twiki

Jets and EW bosons: Proposals for work

- define small projects
 - find people to work on
 - from every experiment/theory we need people to join
 - need names and commitments
- if we do not find people, we have to cancel topic

Jets and EW bosons: Benchmark Comparisons

- need a common theory prescription which is used as benchmark
 - need proper understanding of prediction
 - not only best description of data need to understand the physics behind
 - need a common effort of theory and experimentalists from all experiments!
 - detailed list of items in Backup
 - need people to work on it :)

Jets and EW bosons: infos

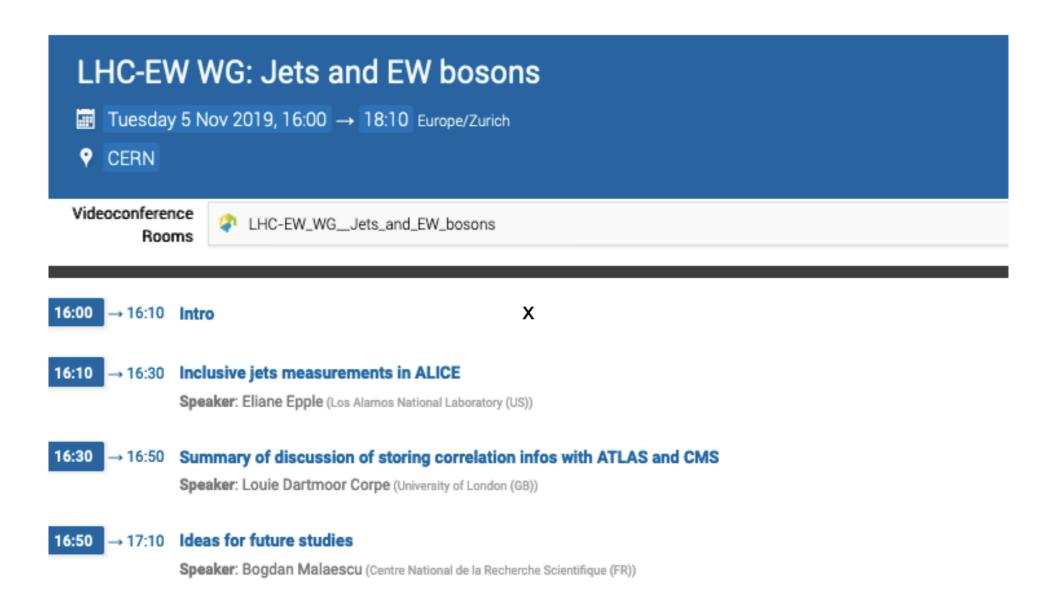
- Discussion on storing uncertainties (correlation) on HepData is ongoing:
 - Proposal is ready
 - Louie has already scheduled presentations in CMS and LHCb
 - in November collect all comments
 - final Recommendations for December meeting
- LHC tune
- new ideas by Bogdan/Matthias (presentation today)
- Preparation of meeting 17-18 Dec 2019
 - need results:) and speaker



Jets and EW bosons

- Further reading
 - Twiki
 - regular meetings: every second week, Tuesdays 16-18

WG 2: Agenda for today



Appendix

EW WG: Jets and EW-bosons, Intro, 05. Nov 2019

Jets and EW bosons: Benchmark Comparisons (1)

- use NNPDF3.1 pdf, CUETp8M1 tune (or something different ?)
- Jets, W+jets, Z+jets
 - POWHEG
 - dijet at NLO (1.1)
 - effect of MPI (MPI on/off)
 - compare inclusive jets with POWHEG for different hdamp params
 - PS on/off
 - trijet with MiNLO (1.2)
 - role of hdamp ?
 - PS on/off

Jets and EW bosons: Benchmark Comparisons (2)

- use NNPDF3.1 pdf, CUETp8M1 tune (or something different ?)
- Jets, W+jets, Z+jets
 - MCatNLO
 - dijets at NLO (2.1)
 - effect of MPI?
 - compare with different merging scales
 - PS on/off
 - 2+3 jets at NLO (FxFx) (2.2)
 - merging scales ?
 - PS on/off
 - 2+3+4 jest at NLO (2.3)
 - merging scales
 - PS on/off

Jets and EW bosons: Benchmark Comparisons (3)

- use NNPDF3.1 pdf, CUETp8M1 tune (or something different ?)
- Jets, W+jets, Z+jets
 - Sherpa (in POWHEG or MCatNLO mode ?)
 - dijets at NLO (3.1)
 - effect of MPI
 - merging scales ?
 - PS on/off
 - 2+3 jets at NLO (3.2)
 - PS on/off
 - 2+3+4 jets at NLO (3.3)
 - PS on/off