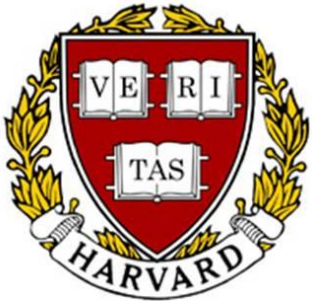


LHC EW WG

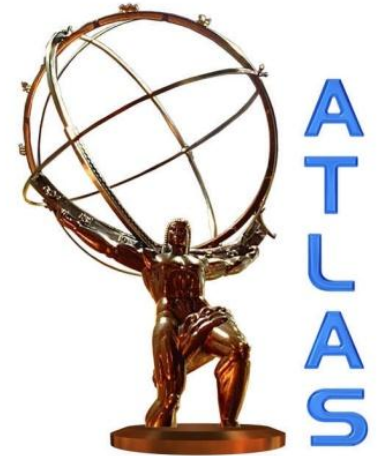
ATLAS W/Z Measurements



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LHC EW WG - Discussion

Items for Discussion

- Minutes of last meeting (9.5.12)
<https://indico.cern.ch/getFile.py/access?resId=0&materialId=minutes&confId=190187>
- “Homework” : ongoing
 - Understand and check dressing (in outcome talk)
- Documentation: What do we want, how do we use it?
 - Need librarian and name for directory
 - Similar to `//svn.cern.ch/repos/lhcvjets: propose /repos/lhcz`
 - Librarian needs to authorize other people
- Discuss content of talks next week
 - Circulate slides of two combined talks

Agenda Discussion

- Introduction – at most 5 min (? if at all)
 - Would need to find person/define rough contents
- Experimental talks – 15-to-20 min +10 min dis.
 - Present latest measurements, show highlights
 - Show ingredients for combinations, what you can put on the table for LHC EWK WG
 - No need to go into every detail of 2011/2012 plans, but emphasis important changes (e.g. trigger)

Penultimate Talk

- Proposal for unified treatment of model and theory uncertainties – 20+10 minutes
 - Describe propagation of theory uncertainties on measurement
 - Define robust MC framework
 - Level of QED corrections: quantify (and remaining uncertainties)
 - Extrapolation uncertainties (PDFs, PS, PDF reweighting)
 - EWK parameter schema
 - External calculations for HO QCD (FEWZ, DYNNLO) and HO EW (ISR, ISR-FSR interference, pure weak effects, depending on parameter schema choice – Baur, SANC etc.)

Outcome (=Last talk)

- Proposal for how to achieve better comparison of measurements – 20+10(/100) minutes
 - Each experiment makes their best measurement
 - Make list of plots: W lepton pseudorapidity, Z rapidity, W charge asymmetry
 - Not foreseen yet: Z pT
 - Provide correction factors from Born to dressed to bare leptons in each fiducial region
 - Backup: add slide with cuts
 - Provide extrapolation factors or emulate/do cuts in order to compare directly with other measurements
 - Prepare overlay plots
 - Each experiment responsible for plot with their best measurement overlaid to others (with corrections)