## Summary from the ATLAS Z measurement (Z-path)

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## New this year

- No change in the actual measurement or its description
- New data:
  - We were allowed  $2 \, {\rm fb}^{-1}$  for Higgs selections (1  ${\rm fb}^{-1}$  last year)
  - Used to increase the number of student datasets and purify the diphoton sample (less conversions, which are tough for the students)
  - Redid also the dilepton samples (Z, J/ψ, Υ) in order to have all data from the same period
- Improvements in OPIoT (and HYPATIA):
  - Individual distributions for the different 4-lepton combinations (4e, 2e2μ, 4μ)
  - Scaling of the expected signal and background distributions to match the number of submitted files

## Issues and feedback

- Technical problem with some muon tracks not existing in the tracks table in HYPATIA (understood, and the problematic events can be replaced for next year)
- From the little feedback we have received, teachers and students were in general happy with the lectures and the measurement in general
- One comment about the video conference not being interesting enough (also, some people leaving before the end of it)
  - Could be partly because of some technical problems
- We were discussing the length of the practical exercise:
  - Do the students have enough time? (Shorten the lectures a bit?)
  - Are 50 events too many?

## Results (OPIoT)



OPIoT - MasterClass - Combination for all institutes on 2014-03-14

- A lot of very nice results
- Students still find too many 4-lepton events
  - In particular 2e2µ events are very common
  - Need to convey that electron clusters are "special" all the yellow stuff is not electrons!

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