

# Drell-Yan MC studies



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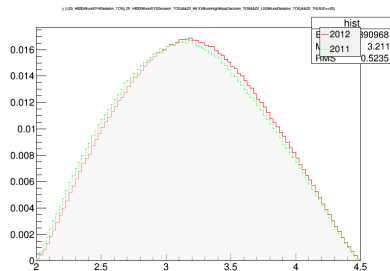
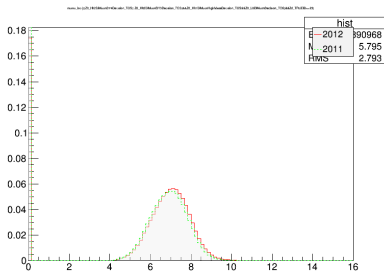
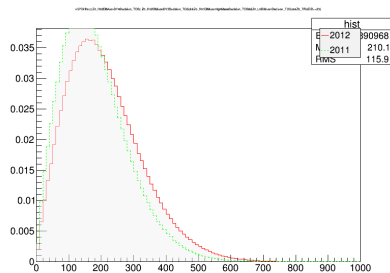
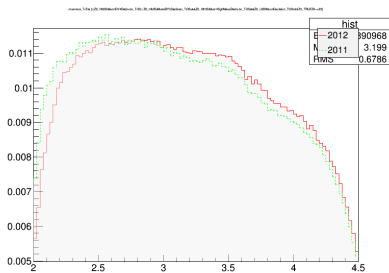
University of  
Zurich <sup>UZH</sup>

Zurich meeting, CERN  
November 11, 2015

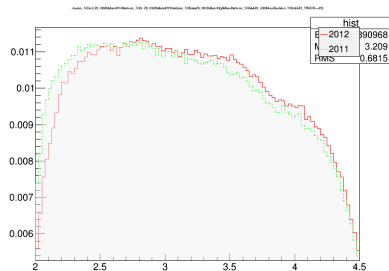
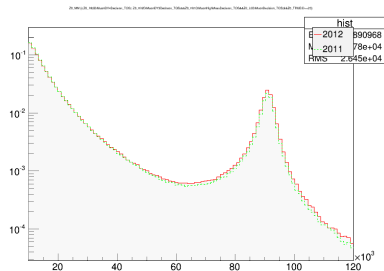
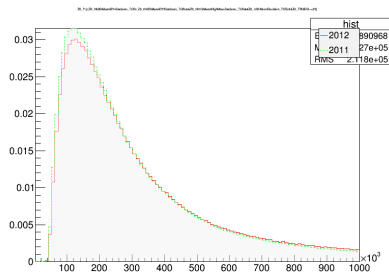
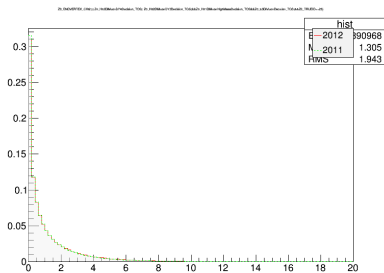
# Reminder

- We ordered  $4 \cdot 9M$  MC events of Drell-Yan production.
- I already check that  $Z^0$  form plot in data looks similar.
- All data distributions after Drell-Yan trigger looks similar.
- Today will show MC comparison between 2011 vs 2012.

# 2011 vs 2012



# 2011 vs 2012



## Some idea

- So Nicola used TFractionFitter which is a ROOT class.
- I need to admit that I never trusted fits from ROOT more complicated than polynomial or gauss.
- Also Nicola saw that there is bias in the low dimuon mass.
- Did some digging and there is an alternative compatible with RooFit and RooStats: HistFactory.
- Reimplementing everything to this. We can use it as cross check if it's not better.

