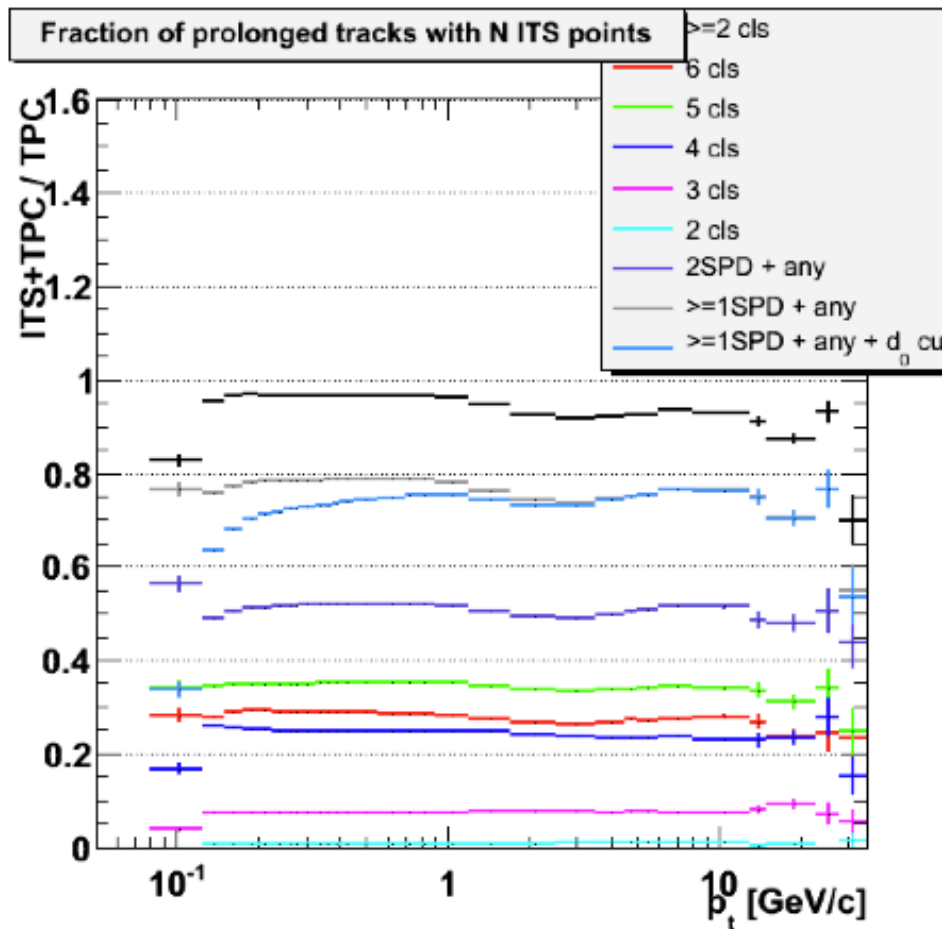
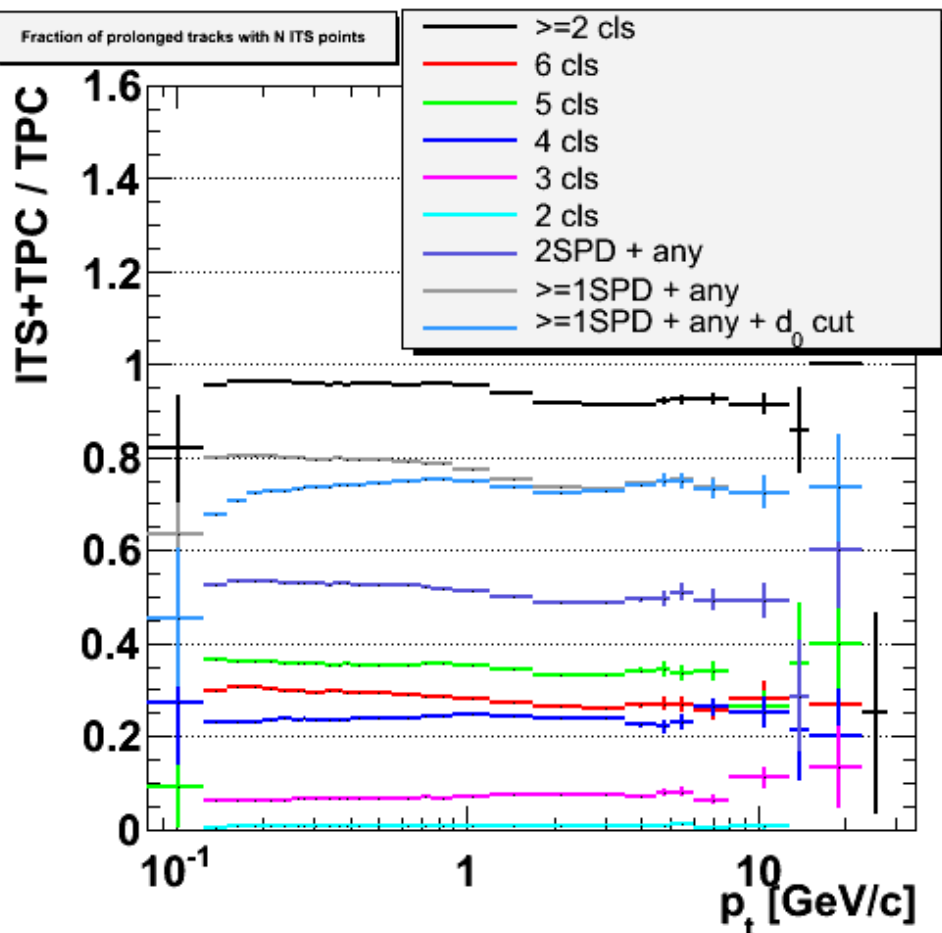


ITS tracking and primary vertex in Pb-Pb pass2

D. Caffarri, A. Dainese, X. Yuan

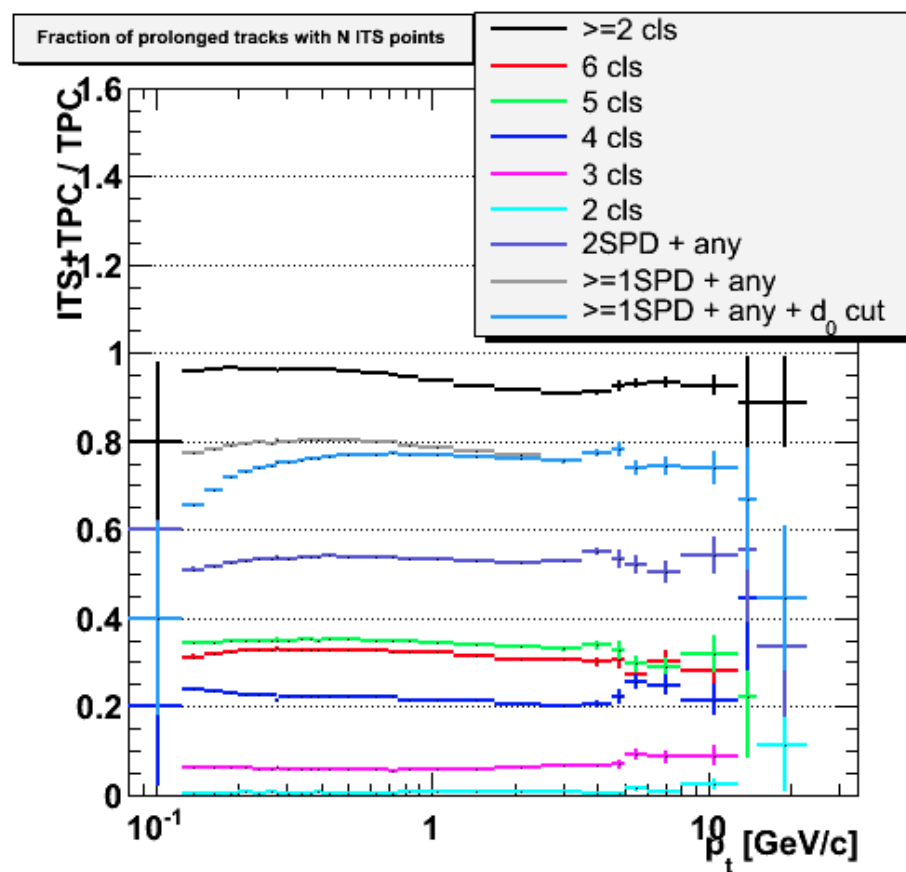
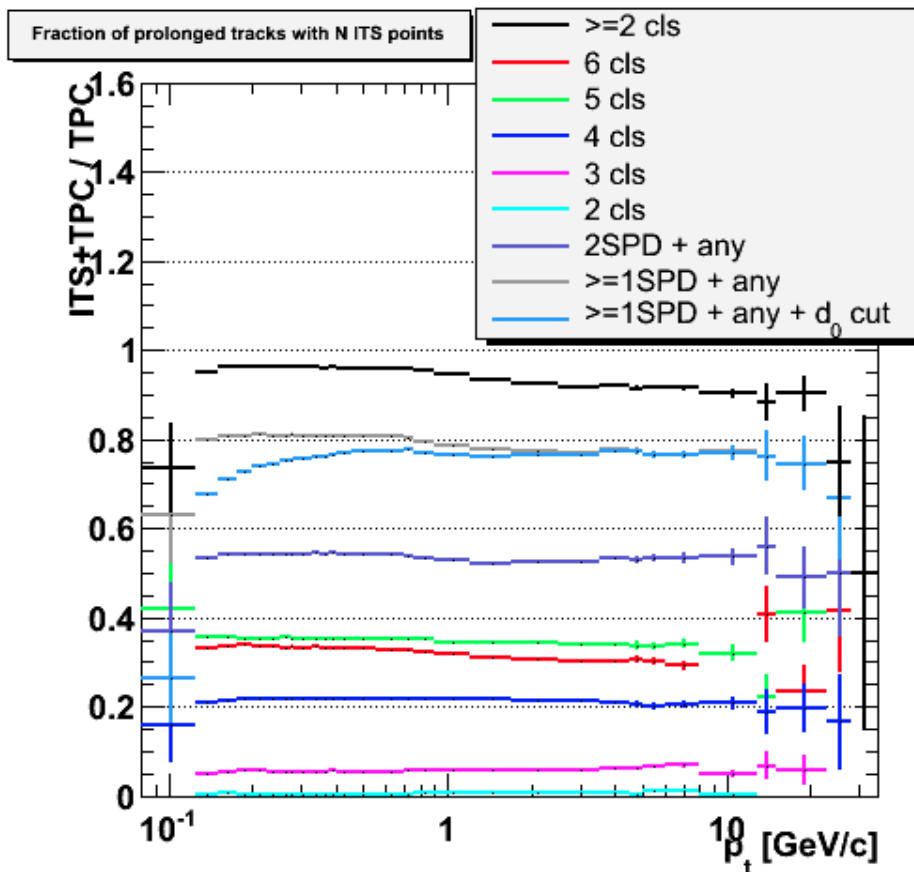
Data 137366 (private reco January)

Pass 2 test



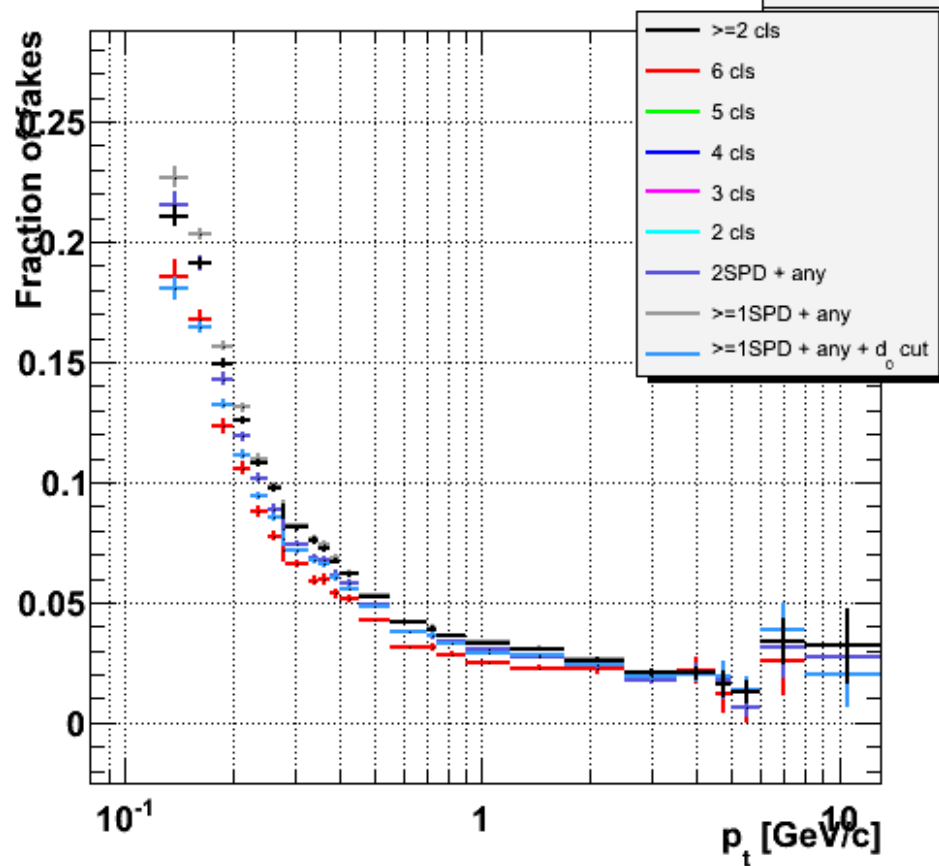
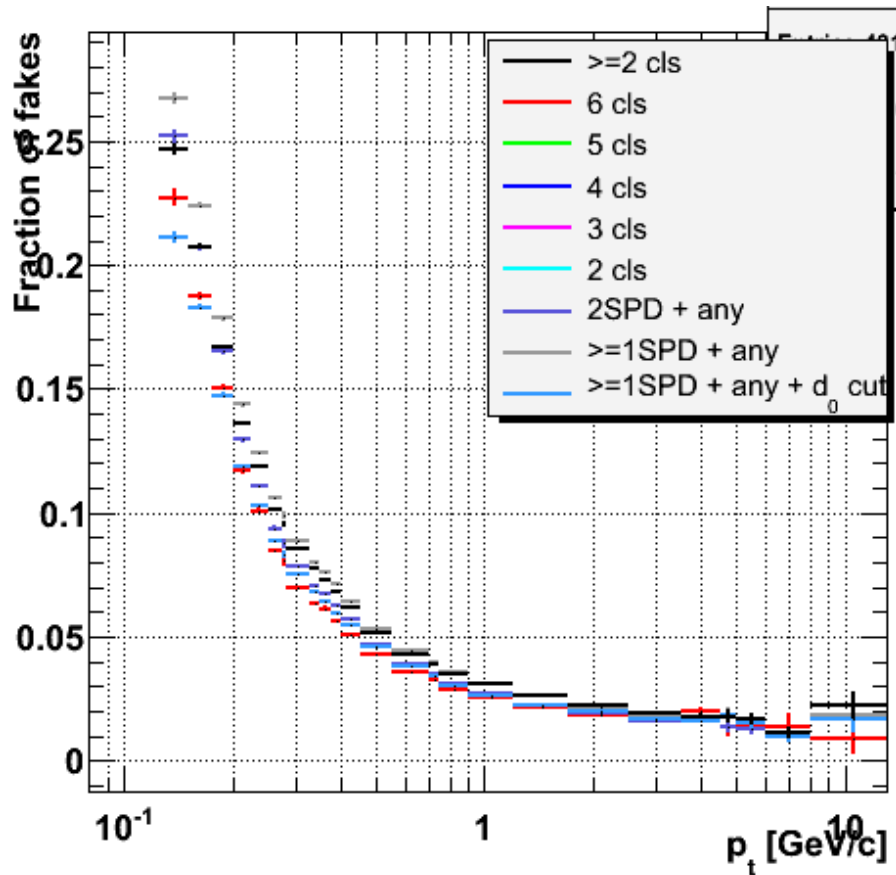
MC Hijing LHC11a4

MC Hijing LHC11a4_bis



MC Hijing LHC11a4

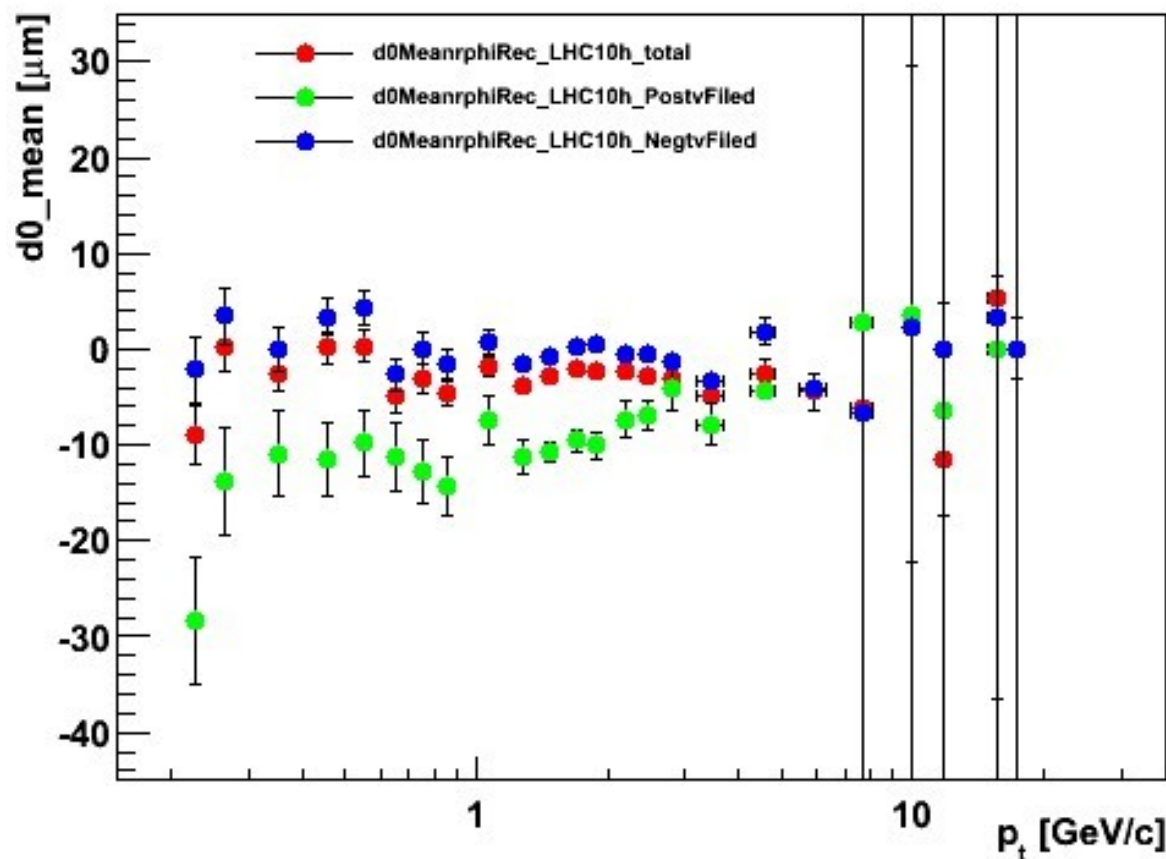
MC Hijing LHC11a4_bis

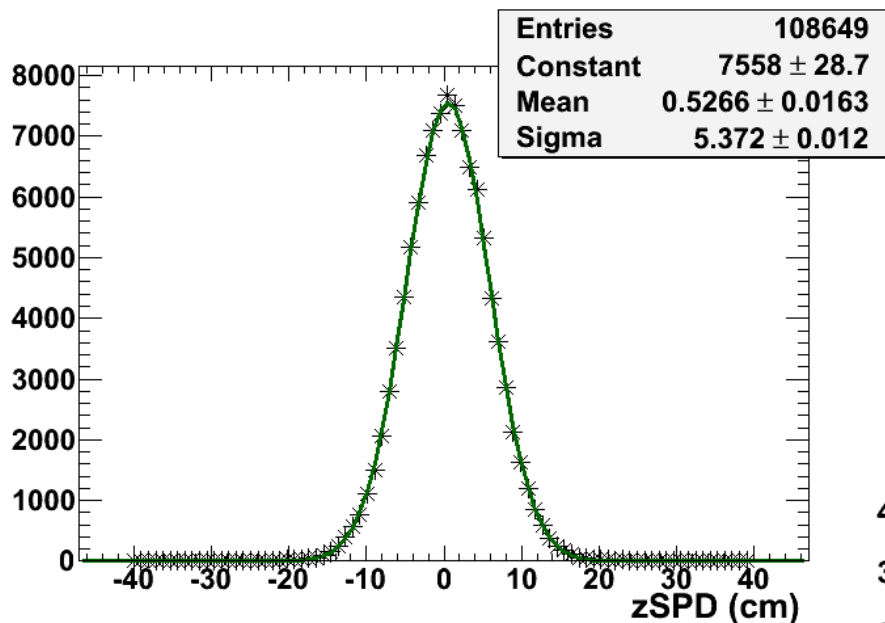


small decrease at low p_t
 \rightarrow smaller fraction of fakes

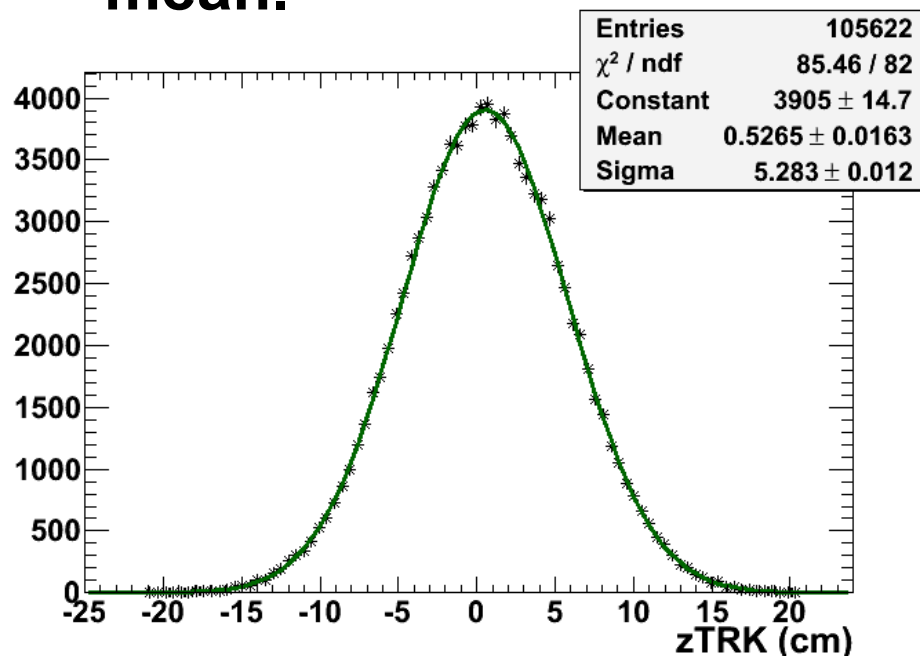
Impact parameter mean

- ◆ New alignment for pass2 (→ see ITS talk by Massimo)
- ◆ First check (low statistics): OK (much better than pass1)

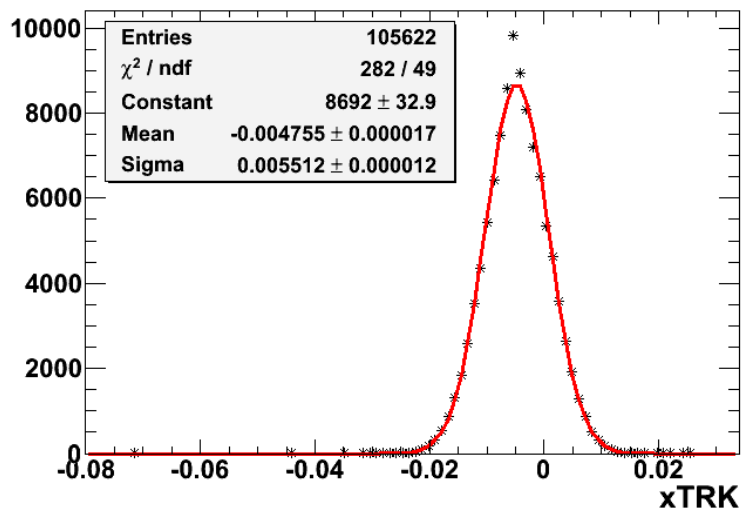




**good agreement
between SPD and TRK
vertex in the value of the
mean.**



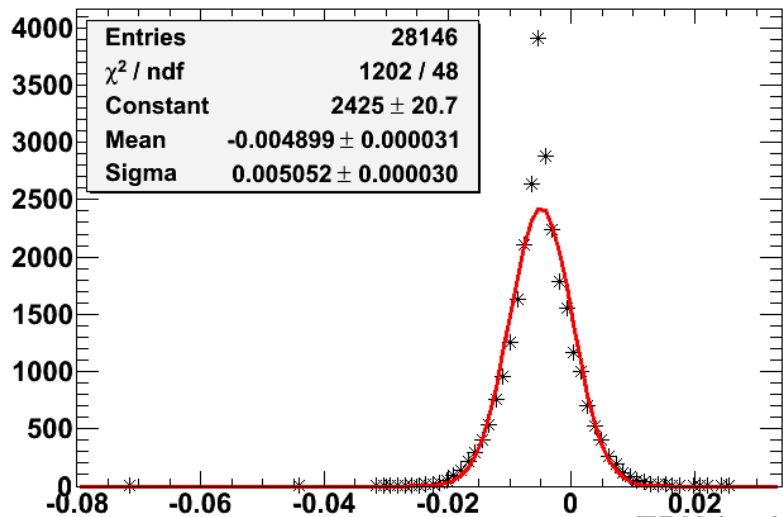
prim VTX pass2: x TRK w/wo constrain



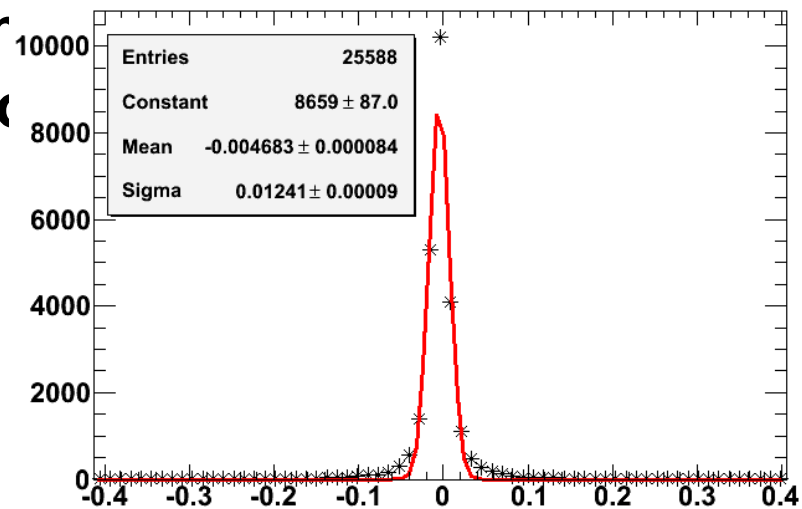
All events

.

Events with less than 50 tracklets.
with / without constrain



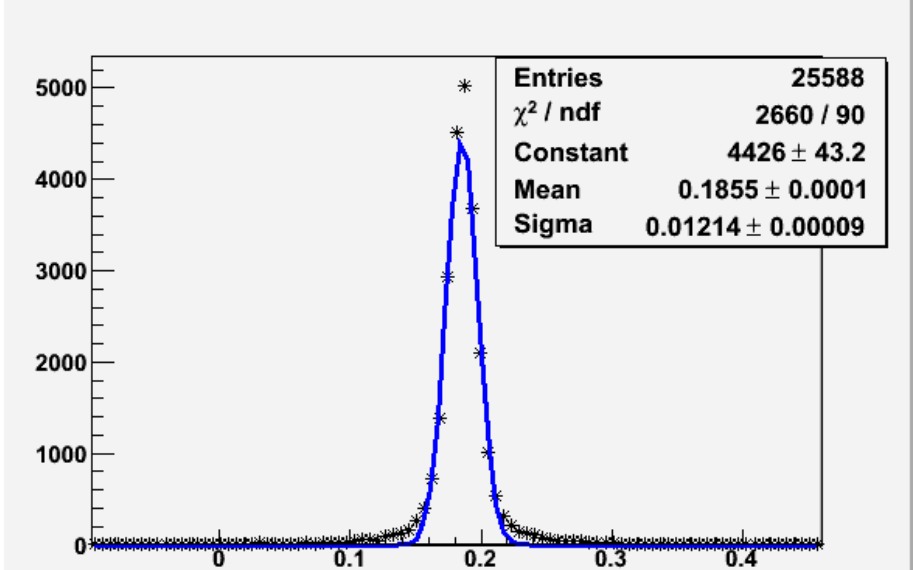
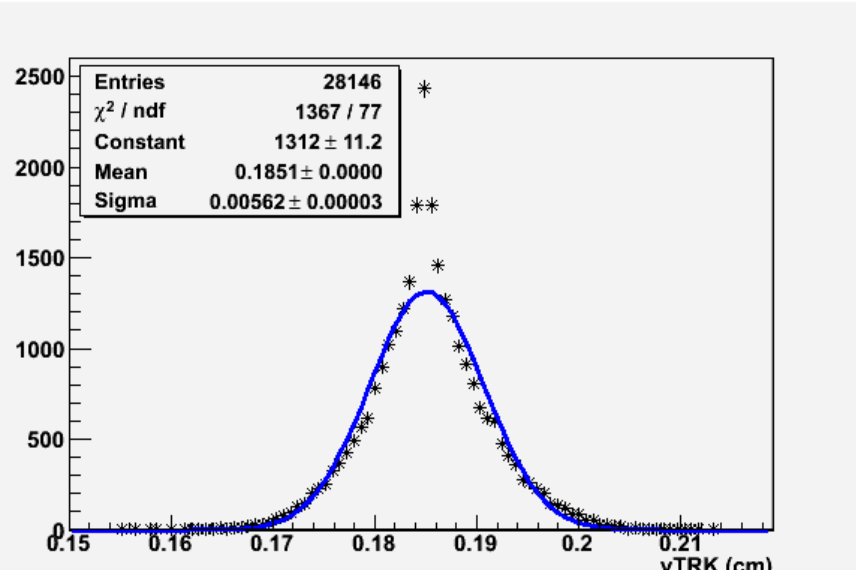
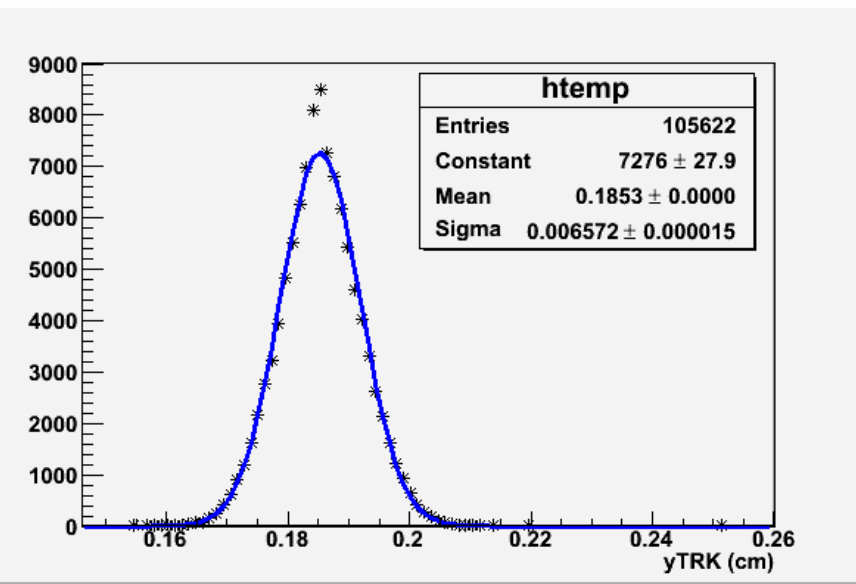
in
fr



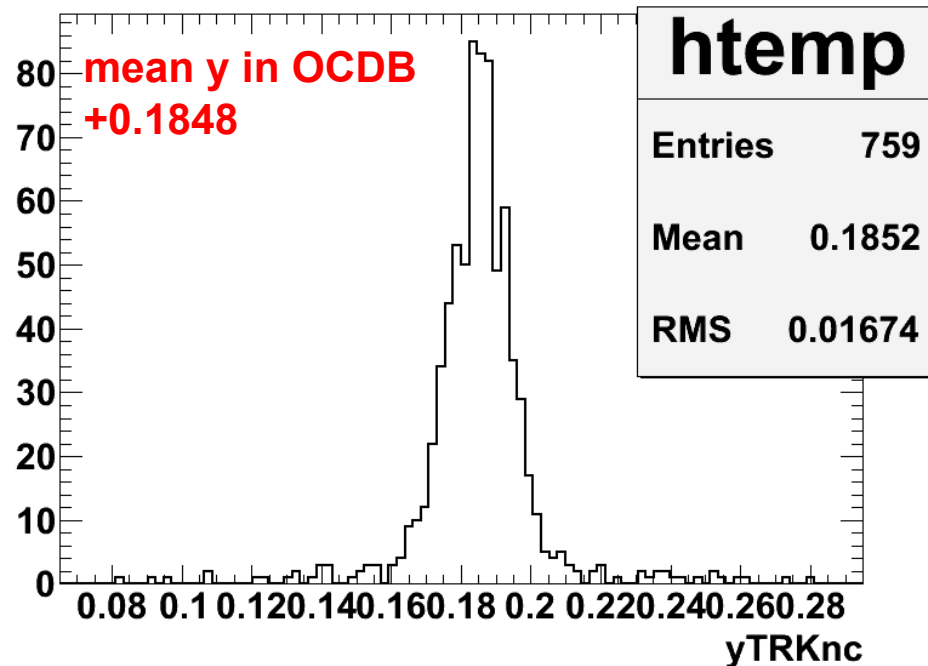
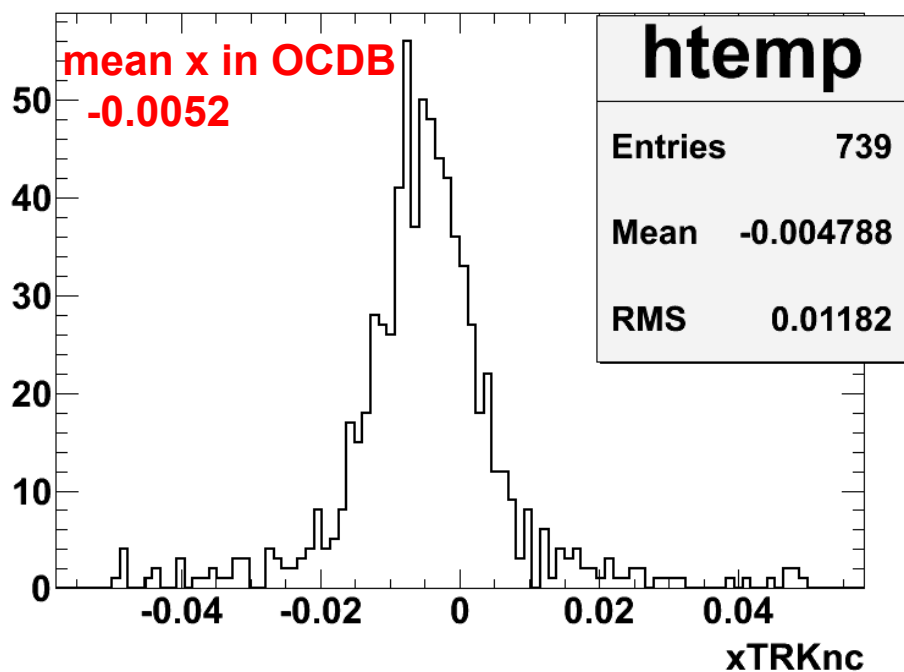
prim VTX pass2: y TRK w/wo constrain

All events

Events with less than 50 tracklets with / without constrain



- ◆ For pass2 we use a new alignment file for ITS
- ◆ The MeanVertex (x,y) used as constraint for primary vertex reconstruction was extracted from pass1
- ◆ Need to check consistency with new alignment (MeanVertex could be slightly different)
- ◆ Look at vertex distributions with new alignment (run 137366):



EXTRA SLIDES

new code
no FlagFakes usage

new code
reject FlagFakes

old code

