



# ITS tracking and primary vertex in Pb-Pb pass2

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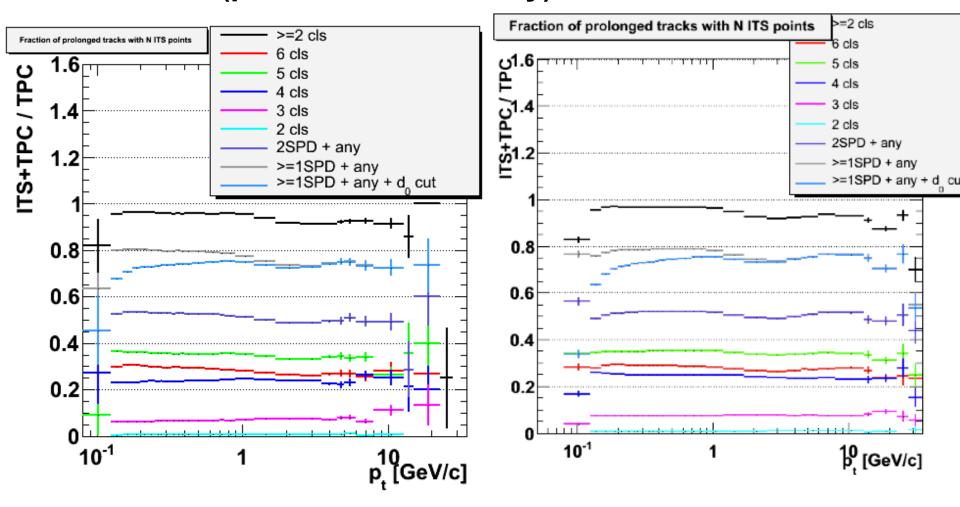


## Data - efficiency



### Data 137366 (private reco January)

#### Pass 2 test



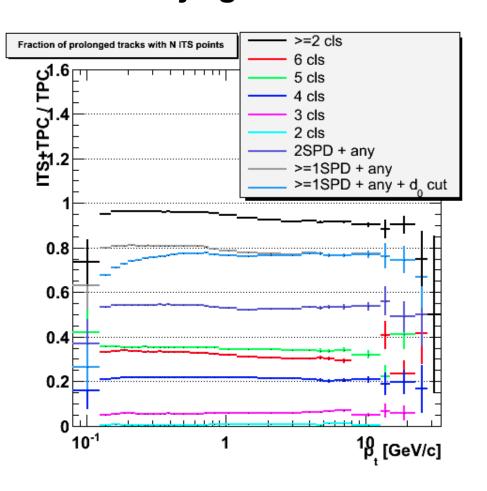


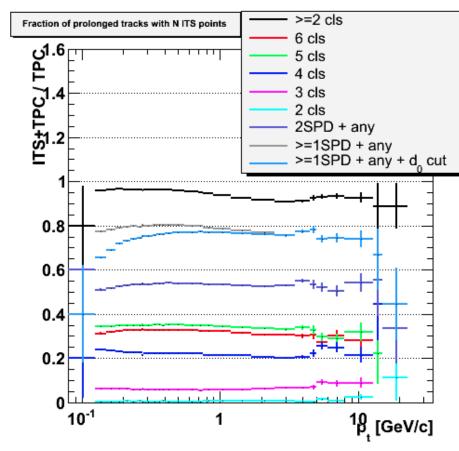
# MC - efficiency



#### MC Hijing LHC11a4

## MC Hijing LHC11a4\_bis





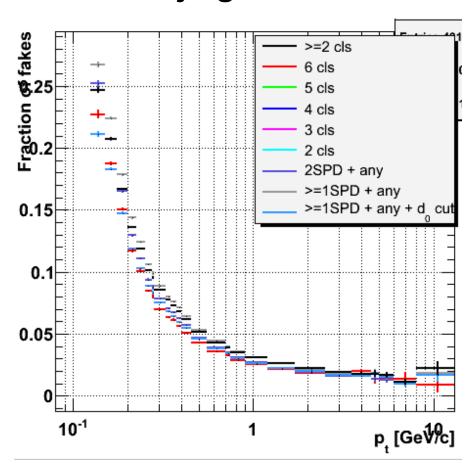


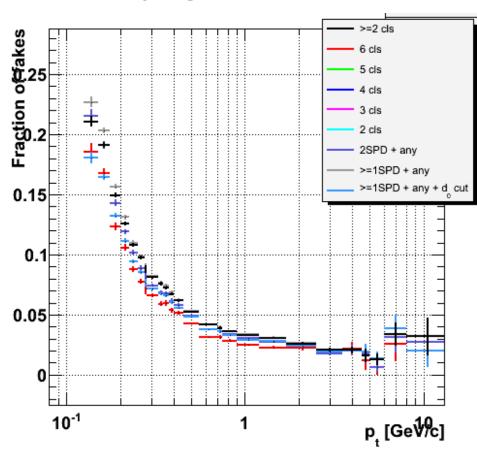
# MC - fakes



### MC Hijing LHC11a4

## MC Hijing LHC11a4\_bis





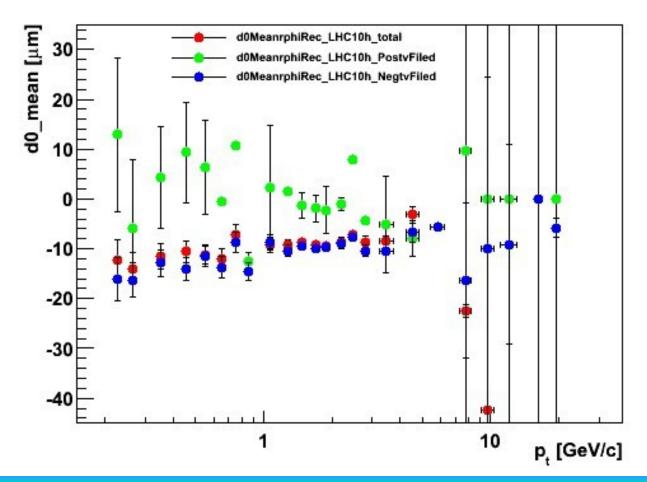
⇒ small decrease at low pt⇒ smaller fraction of fakes



# Alignment Impact parameter mean



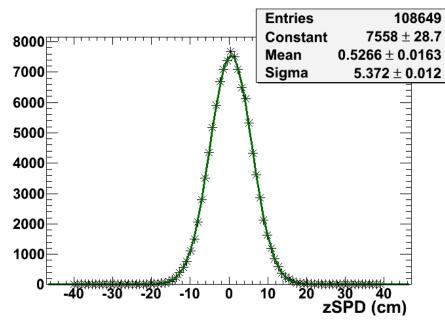
- New alignment for pass2 (→ see ITS talk by Massimo)
- First check (low statistics): OK (much better than pass1)



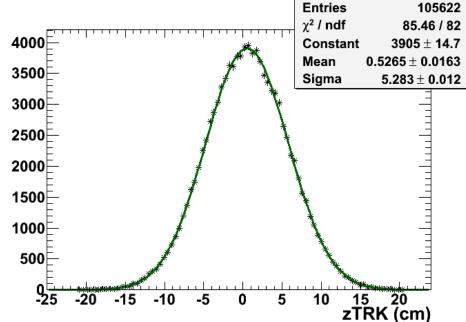


# prim VTX pass2: z SPD - TRK

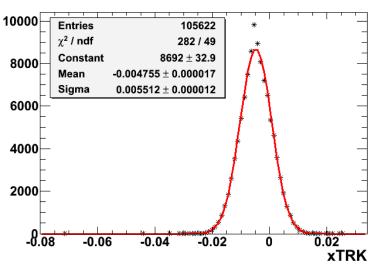




good agreement between SPD and TRK vertex in the value of the mean.

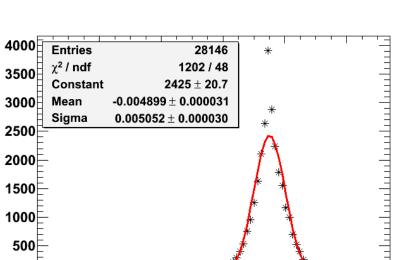


# prim VTX pass2: x TRK w/wo constraints





0.02



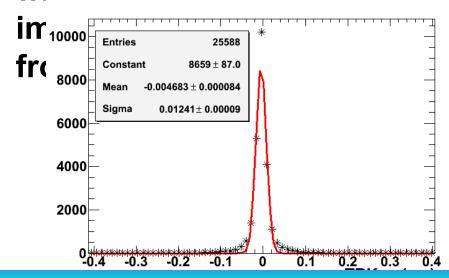
-0.02

0

# All events

**Events with less than 50 tracklets.** 

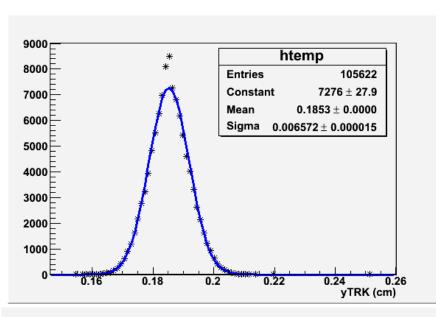
With / without constrain

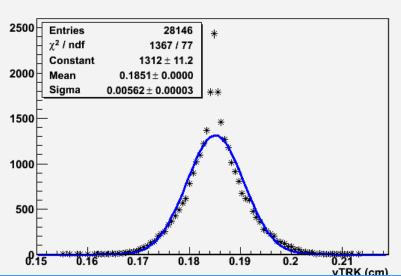


-0.04

-0.06

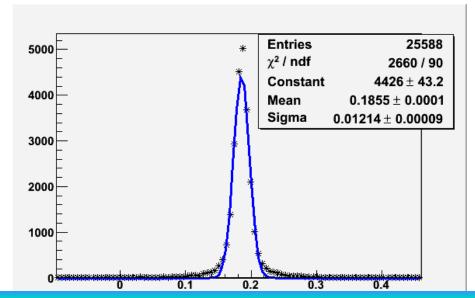
# prim VTX pass2: y TRK w/wo constraints





# All events

Events with less than 50 tracklets.
with / without constrain

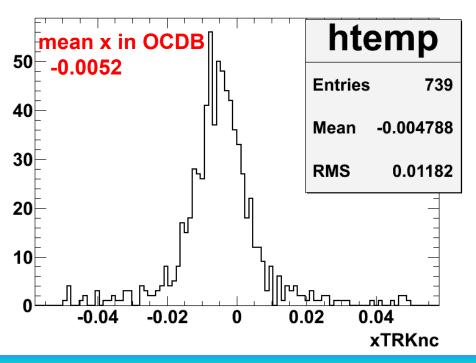


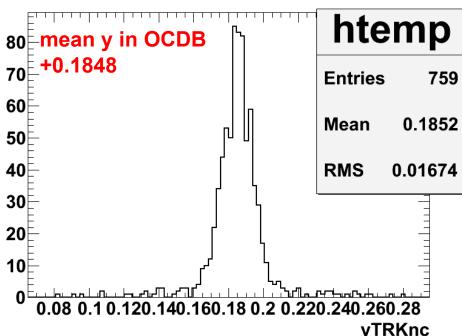


## New alignment and MeanVertex



- 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**



## effs 137366 new code



new code no FlagFakes usage reject FlagFakes

new code

old code

