

Cosmics bit 25

DESY+UniHH tracker alignment meeting

May 25, 2010

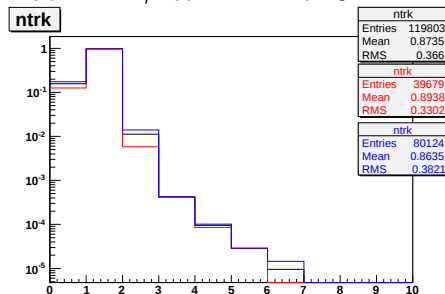
Realise,samples

Status:

- ▶ CMSSW_3_5_6
- ▶ /Cosmics/Commissioning10-StreamTkAlCosmics0T-v7/ALCARECO (since 2nd May 2010 - run 134721)
 - ▶ runs: 135575, 135528, 135524, 135523, 135521, 135545, **135149** (the longest run with the stable rate)
- ▶ rate 3.5 - 4 Hz
- ▶ number of tracks
 - ▶ all events: 191437
 - ▶ events with bit 25: 98282

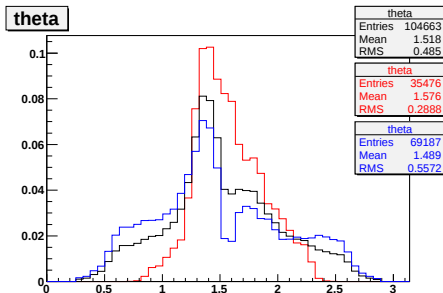
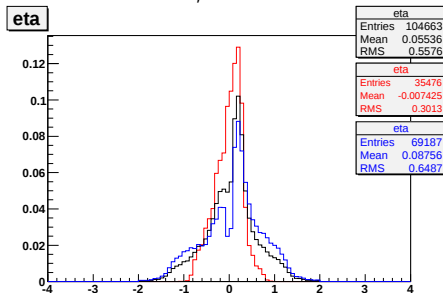
Number of tracks

Black ALL , red RED Bit 25



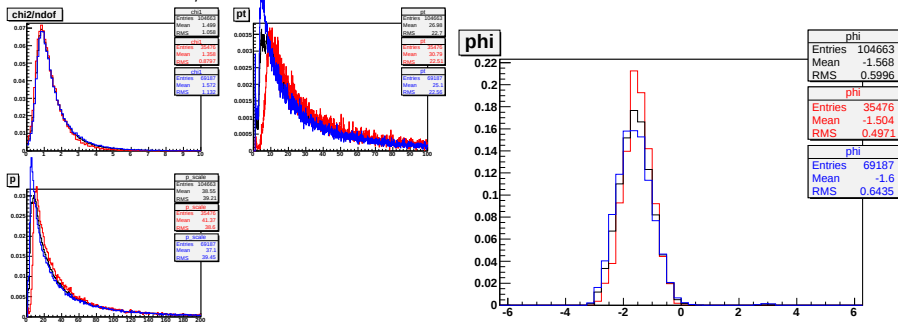
η, θ

Black ALL , red RED Bit 25

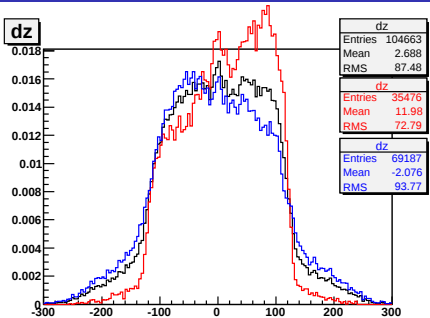
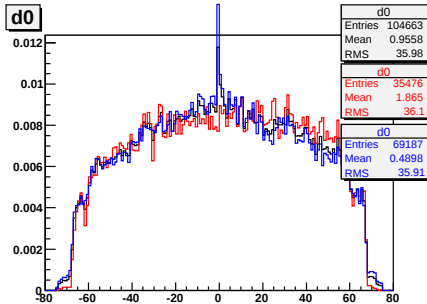


Control plots

Black ALL , RED Bit 25

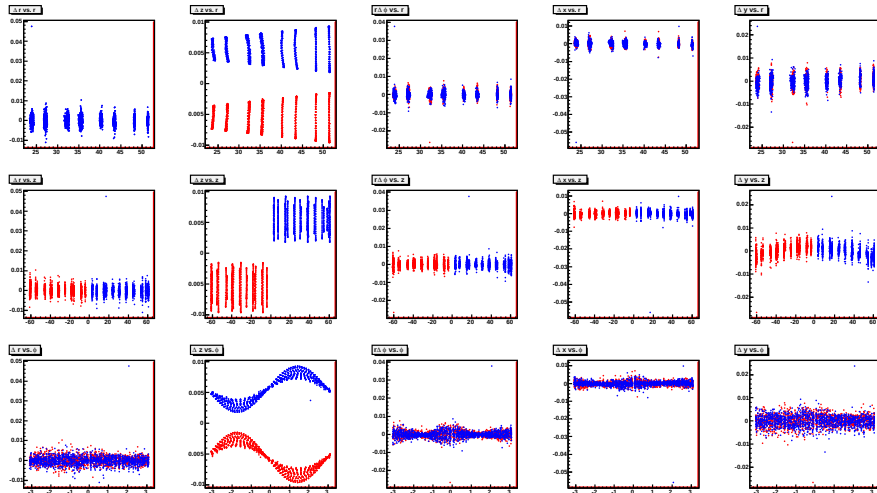


d0, dz

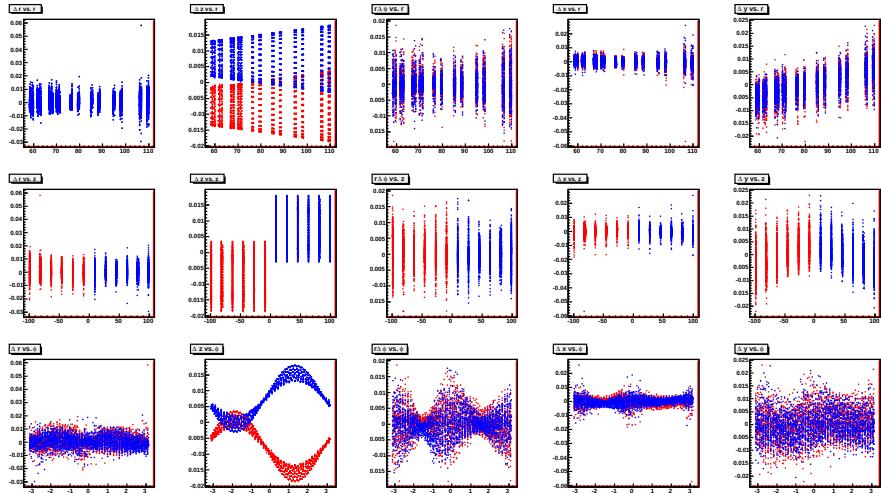


```
— Pixel Barrel  
'TrackerTPBHalfBarrel,111111',  
'PixelHalfBarrelDets,111001',  
— Pixel Forward  
'TrackerTPEHalfCylinder,111111',  
'PXECDets,111001',  
— TIB  
'TrackerTIBHalfBarrel,111111',  
'TIBSSDets,101111',  
'TrackerTIBModuleUnit,101111',  
— TOB  
'TrackerTOBHalfBarrel,111111',  
'TOBSSDets,101001',  
'TrackerTOBModuleUnit,101001',  
— TID  
'TrackerTIDEndcap,111111',  
'TIDDets,100001,endCapSS',  
'TrackerTIDModuleUnit,100001,endCapDS',  
— TEC  
'TrackerTECEndcap,111111',  
'TECDets,100001,endCapSS',  
'TrackerTECModuleUnit,100001,endCapDS'
```

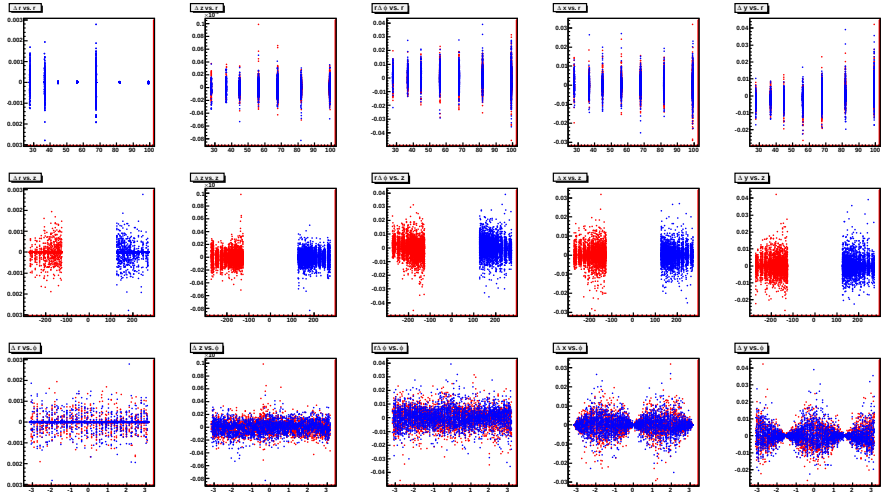
TIB



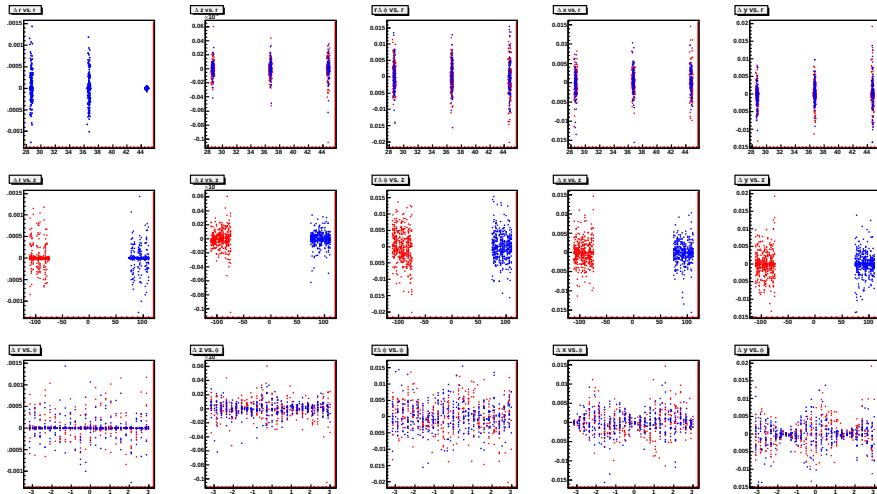
TOB



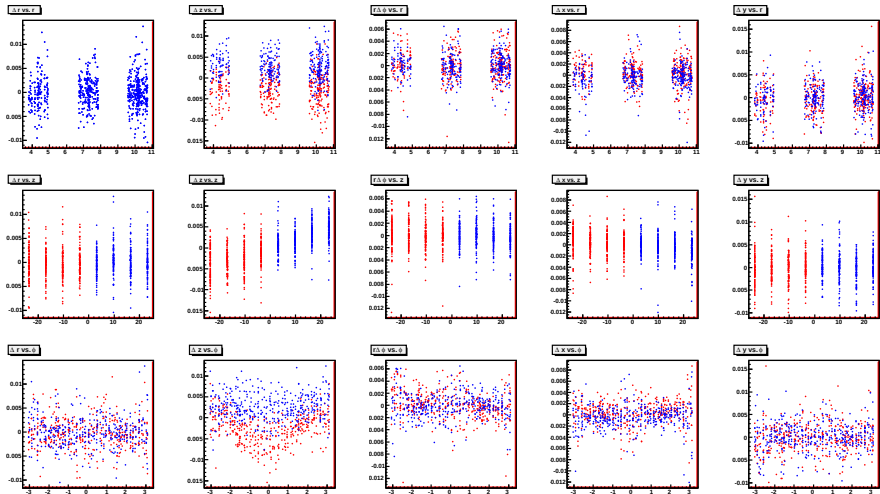
TEC



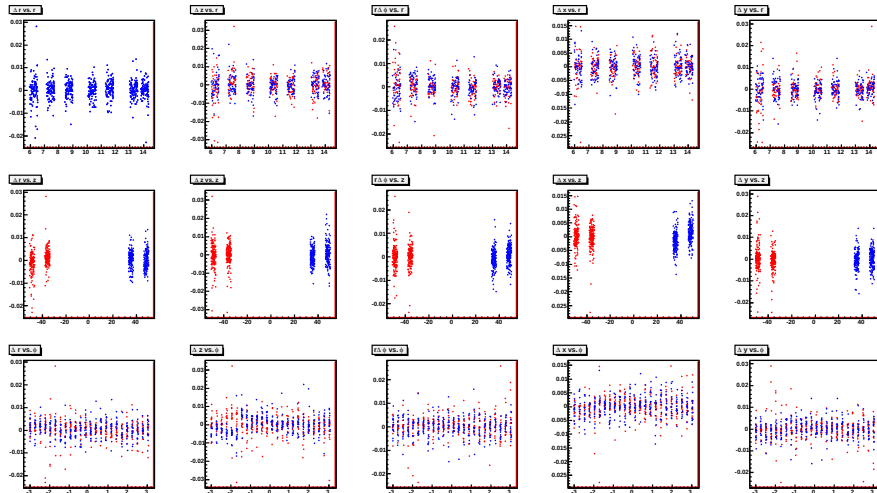
TID



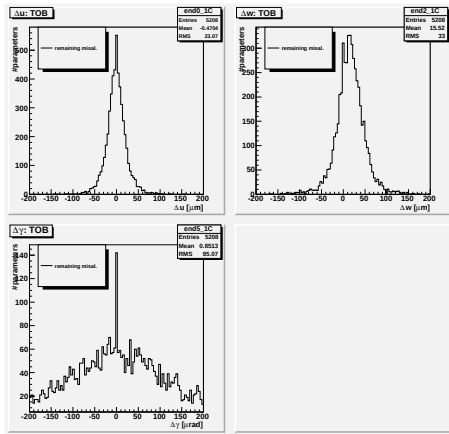
PXB



PXF

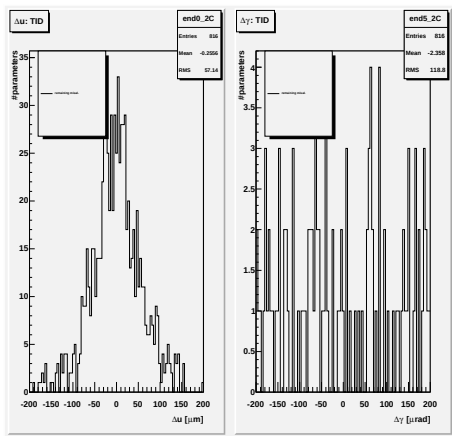


TOB



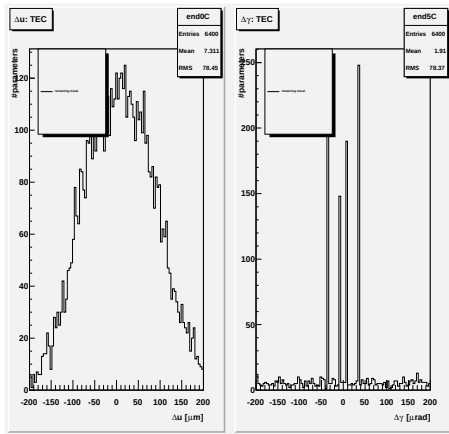
Bit 25

TID



Bit 25

TEC



Bit 25

Summary

- ▶ cosmic trigger has been switched on during data taking
- ▶ bit 25 works fine
- ▶ statistic is still small