

Cosmic studies

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Data Sets



Data sets:

/Cosmics/Run2010A-TkAlCosmics0T-v4/ALCARECO

Selection criteria:

```
pMin = cms.double(4.),  
nHitMin = cms.double(8.),  
nHitMin2D = cms.int32(1),  
chi2nMax = cms.double(9999.),  
applyMultiplicityFilter = cms.bool(False),  
maxMultiplicity = cms.int32(1),  
applyNHighestPt = cms.bool(False),  
nHighestPt = cms.int32(1),  
seedOnlyFrom = cms.int32(0),  
applyIsolationCut = cms.bool(False),  
minHitIsolation = cms.double(0.8),  
applyChargeCheck = cms.bool(False), # since no S/Ncut is applied  
minHitChargeStrip = cms.int32(50),
```



Trigger selection



All events in ALCARECO (after cuts):

- 1478340

Cosmic trigger – bit 25

- 686735

Collision - bit 0

- 16171

Cosmic (bit 25) and Collision (bit 0)

-1464

Collision (bit 0) and no Cosmic (no bit 25)

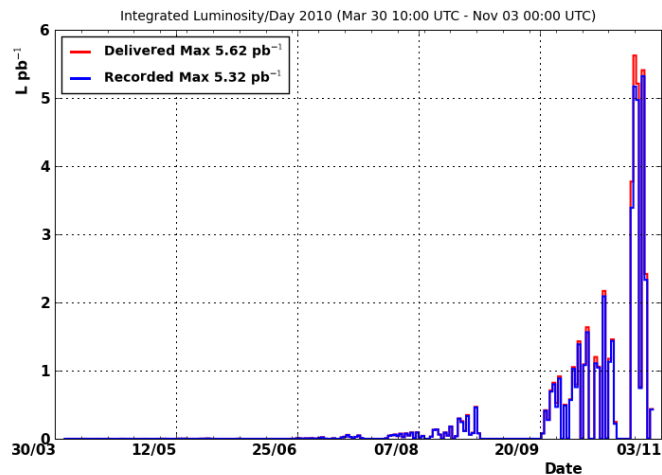
- 14707

Cosmic (bit 25) and no collision (no bit 0)

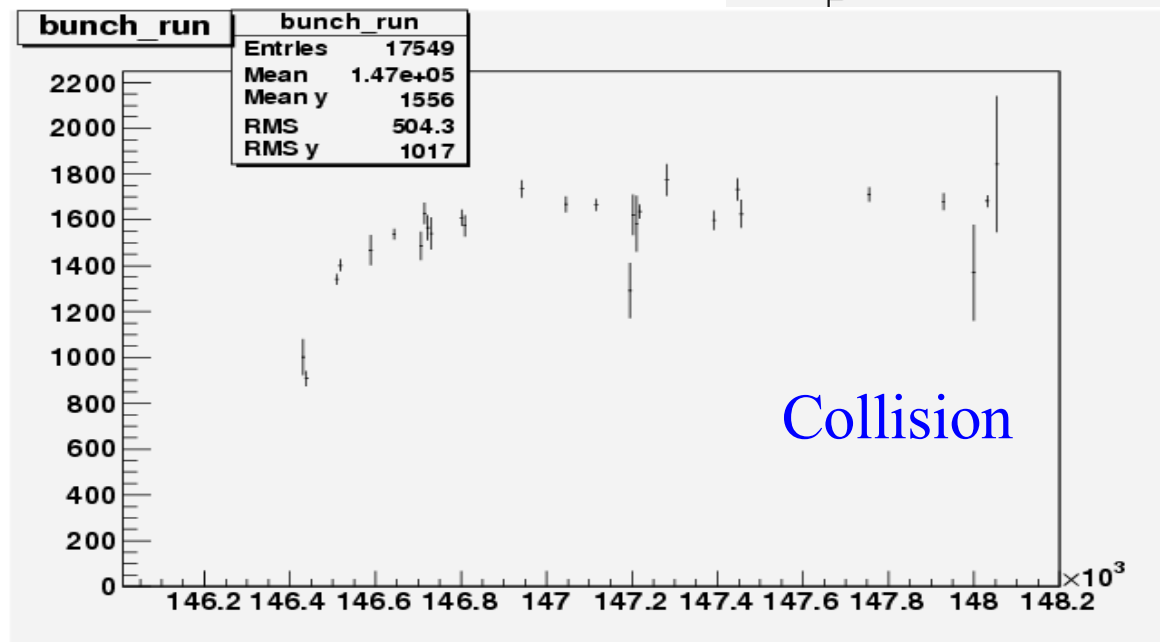
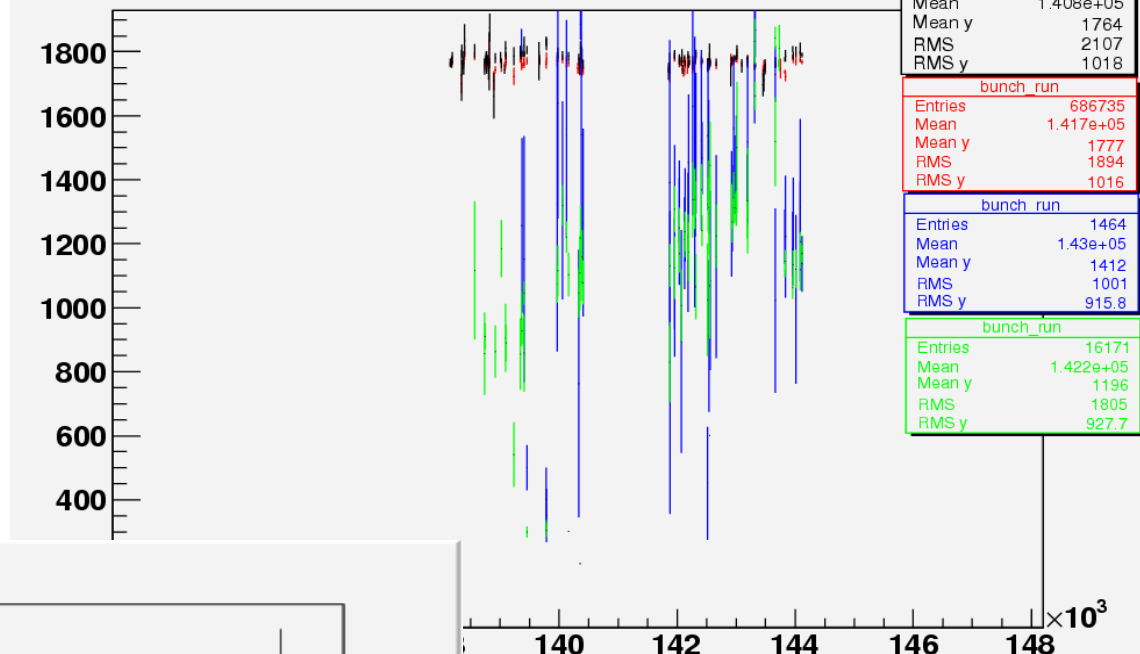
- 685271



Number of bunches per Run

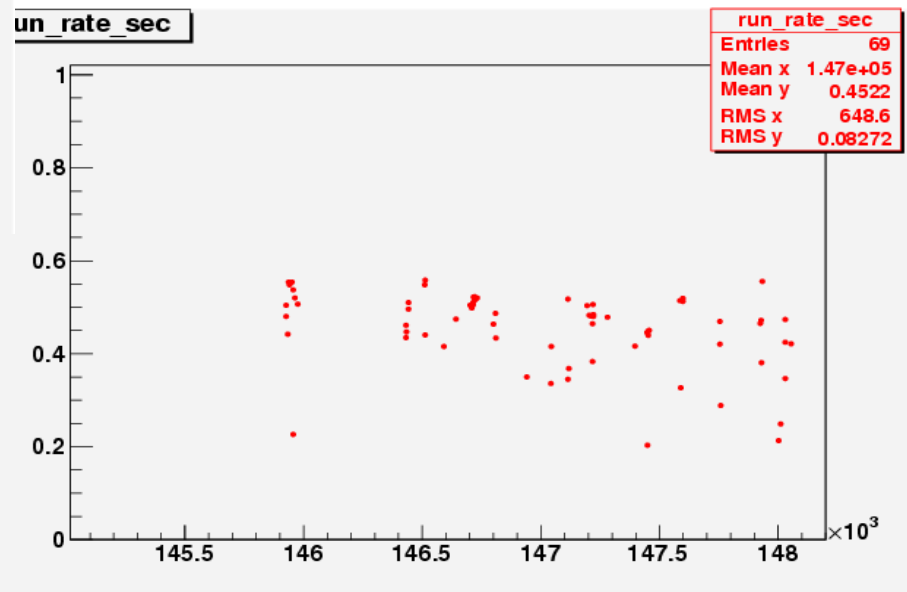
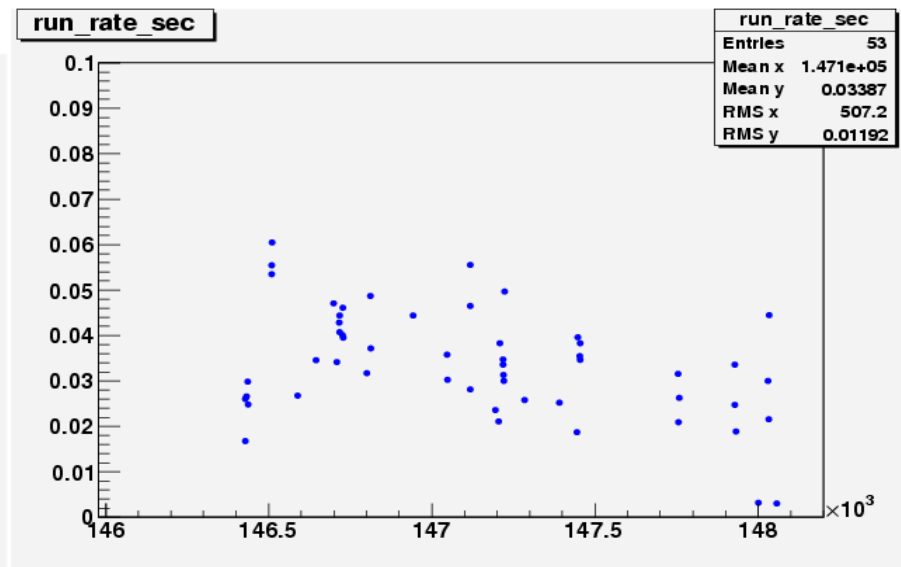
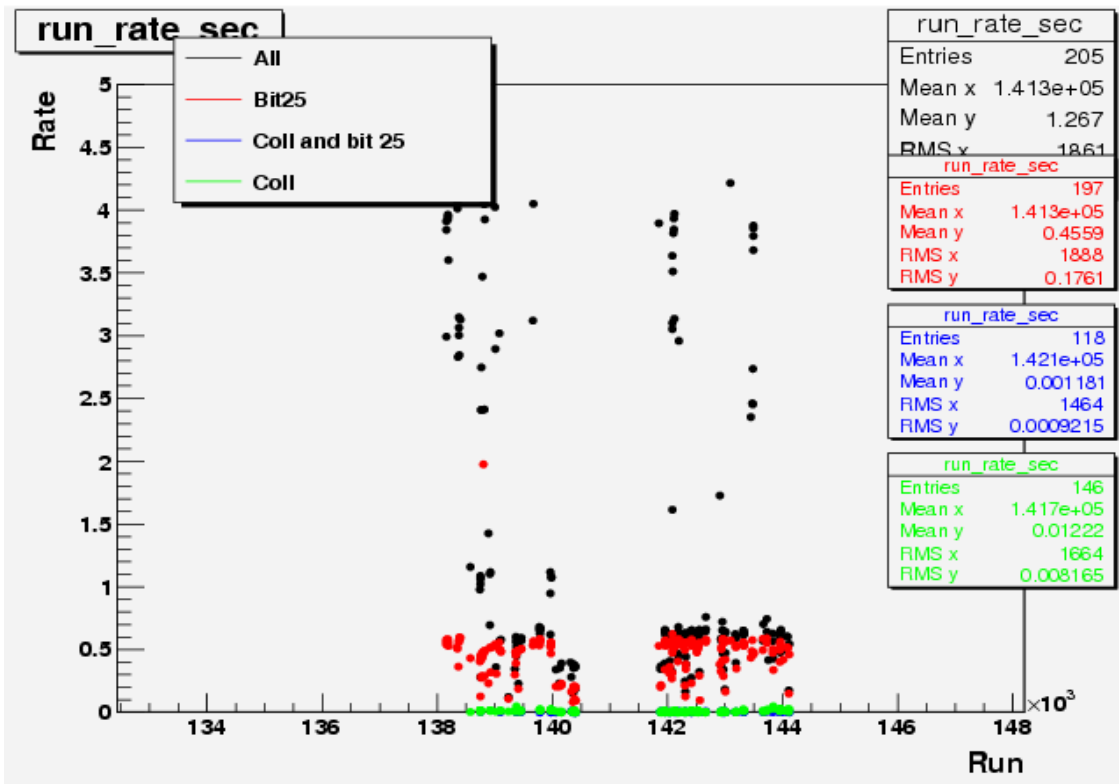


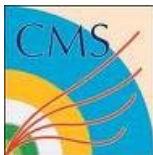
bunch_run



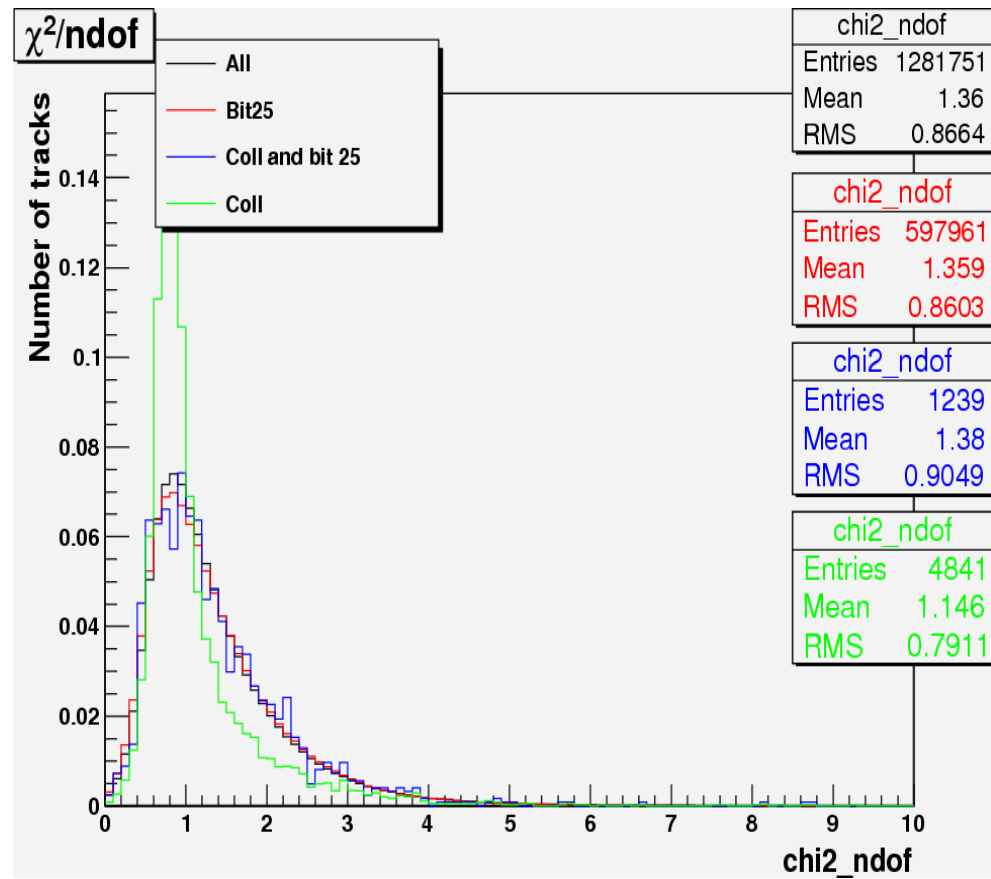
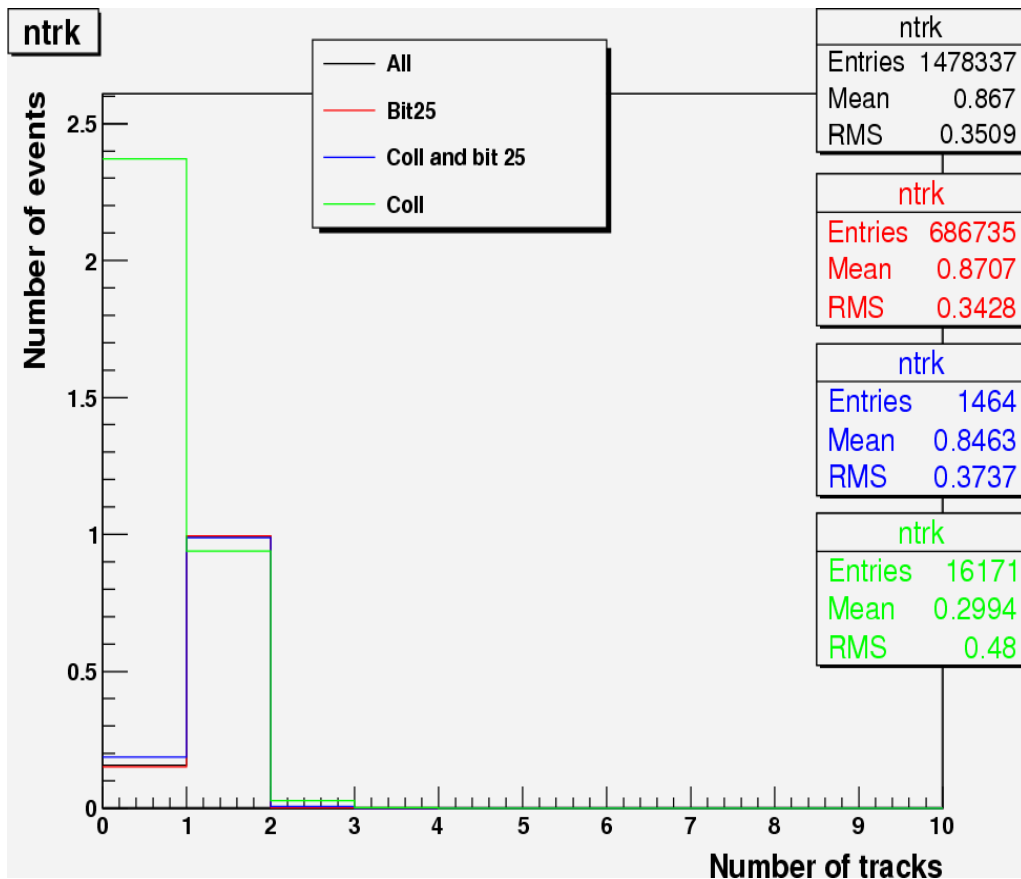
Number of bunches = iEvent.bunchCrossing();

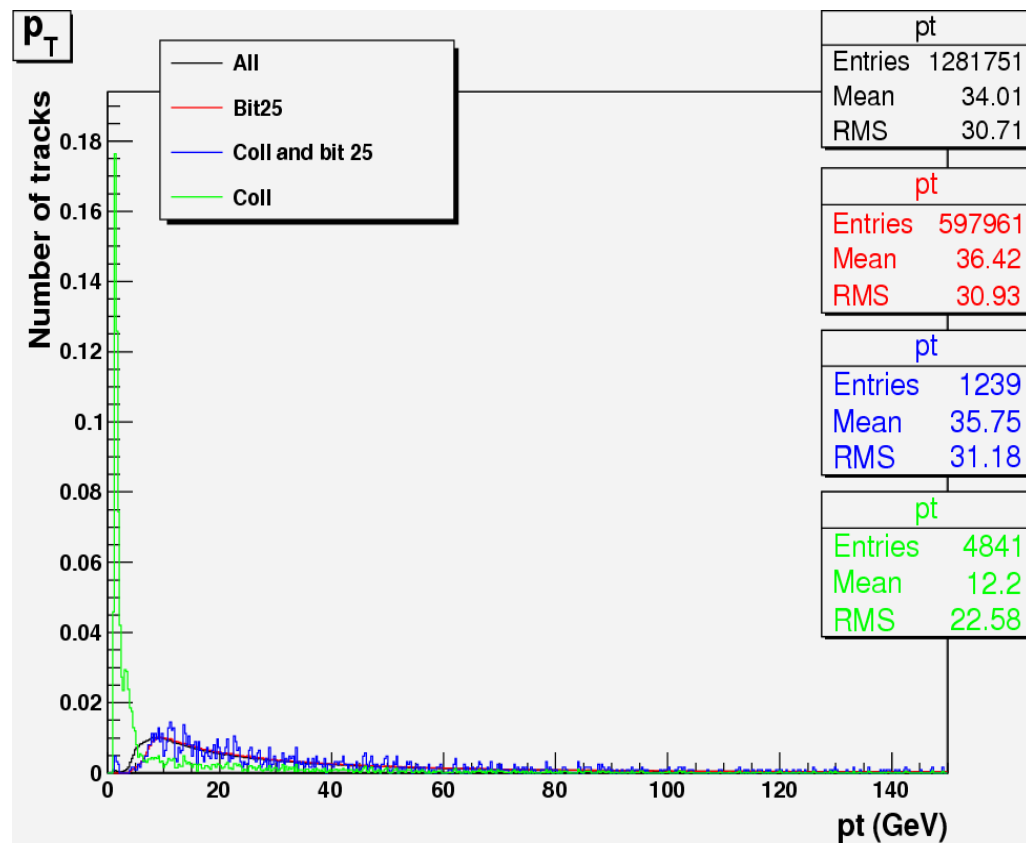
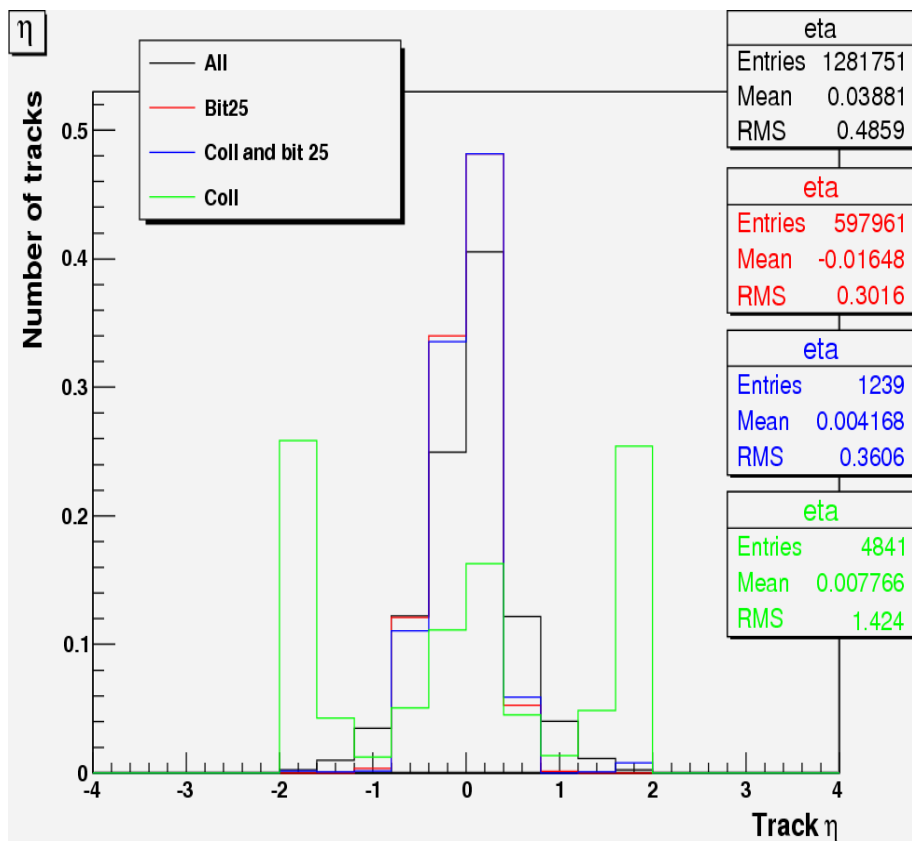
Collision

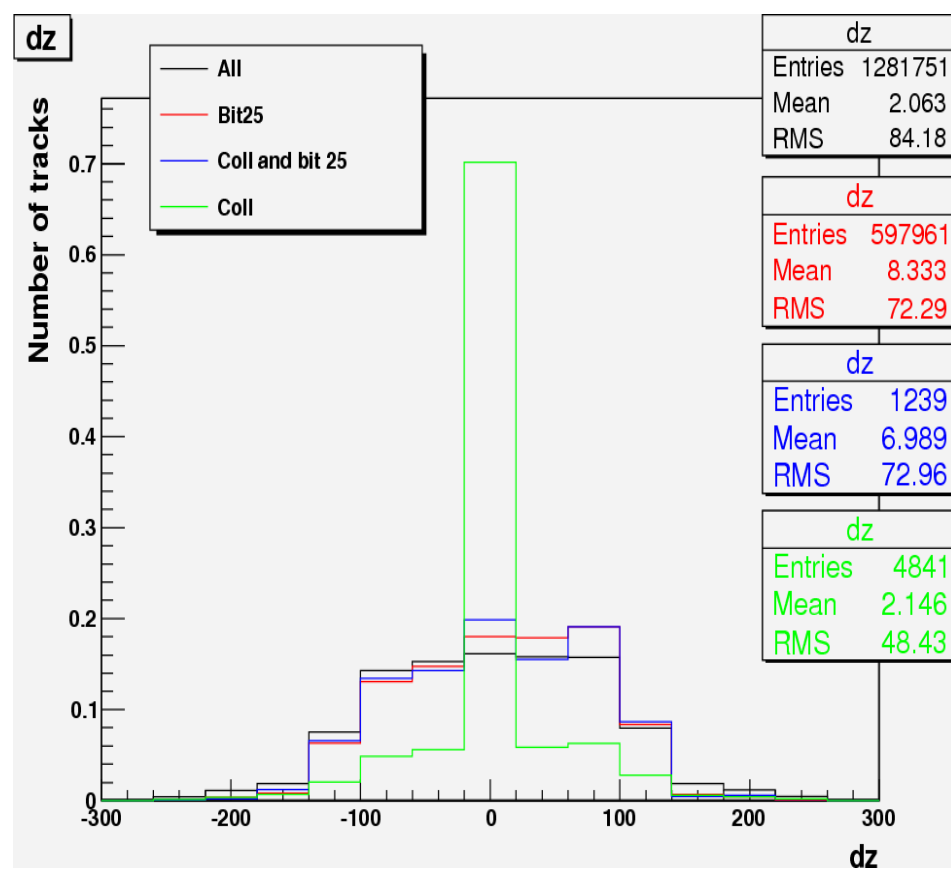
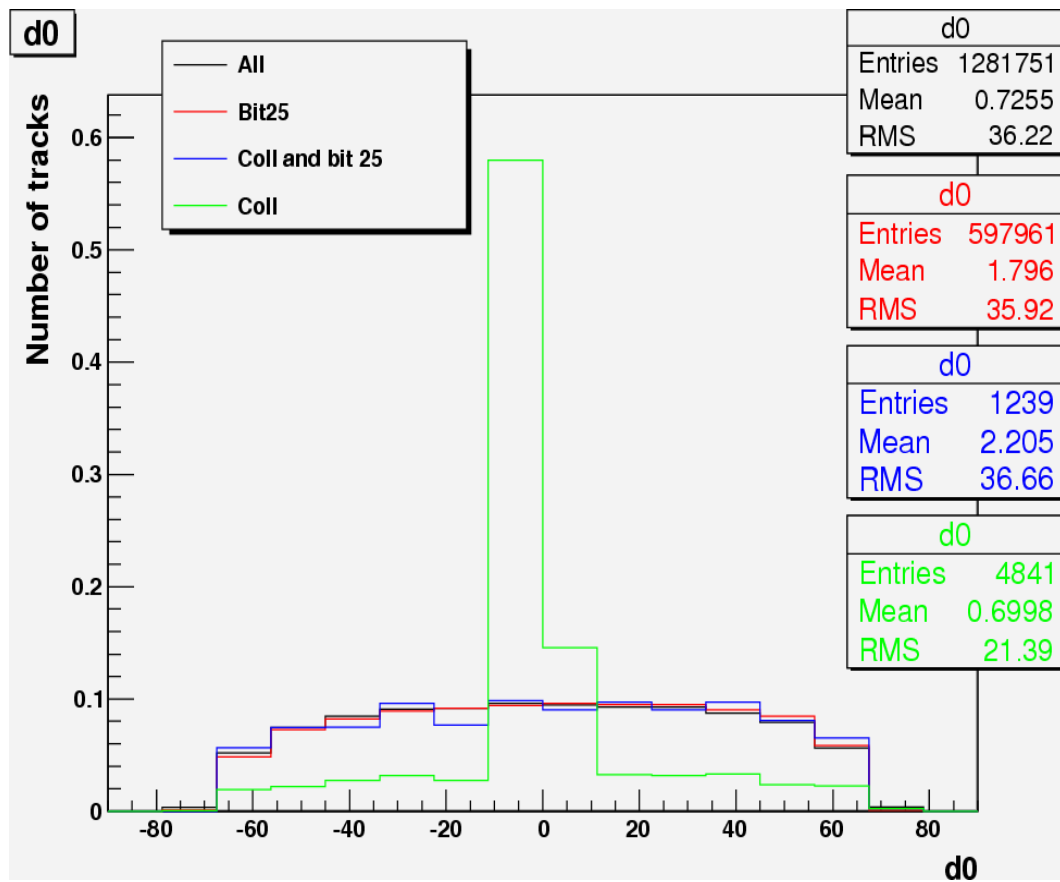


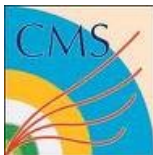


Ntrk & chi2









NHits

