



Adun Strategy on MC



- Test Adun 2step approach on MC starting from Ideal geometry:

Ideal → Adun0 → Adun1

Adun0

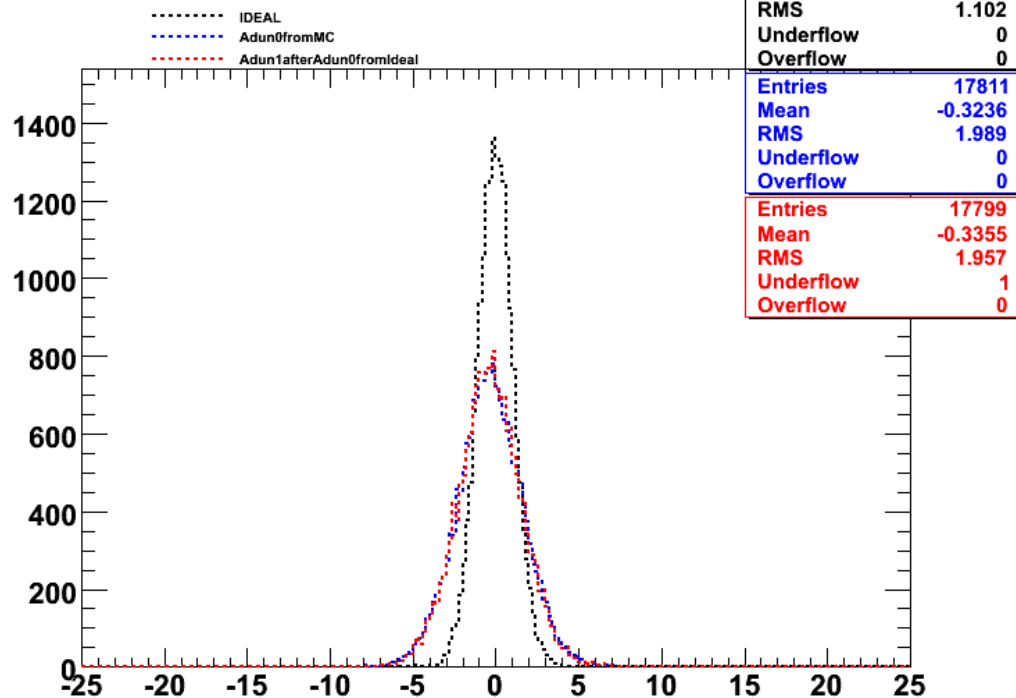
```
#--- Pixel Barrel
  'TrackerTPBHalfBarrel,111111',
  'PixelHalfBarrelDets,111001',
#--- Pixel Forward
  'TrackerTPEHalfCylinder,111111', #because they are
mechanically split into 4 parts...
  'PXECDets,111001',
#--- TIB
  'TrackerTIBHalfBarrel,111111',
  'TIBSSDets,101001',
  'TrackerTIBModuleUnit,101001',
#--- TOB
  'TrackerTOBHalfBarrel,111111',
  'TOBSSDets,101001',
  'TrackerTOBModuleUnit,101001',
#--- TID
  'TrackerTIDEndcap,111111',
  'TIDDets,101001,endCapSS',
  'TrackerTIDModuleUnit,101001,endCapDS',
#--- TEC
  'TrackerTECEndcap,111111',
  'TECDets,101001,endCapSS',
  'TrackerTECModuleUnit,101001,endCapDS'
),
```

Adun1

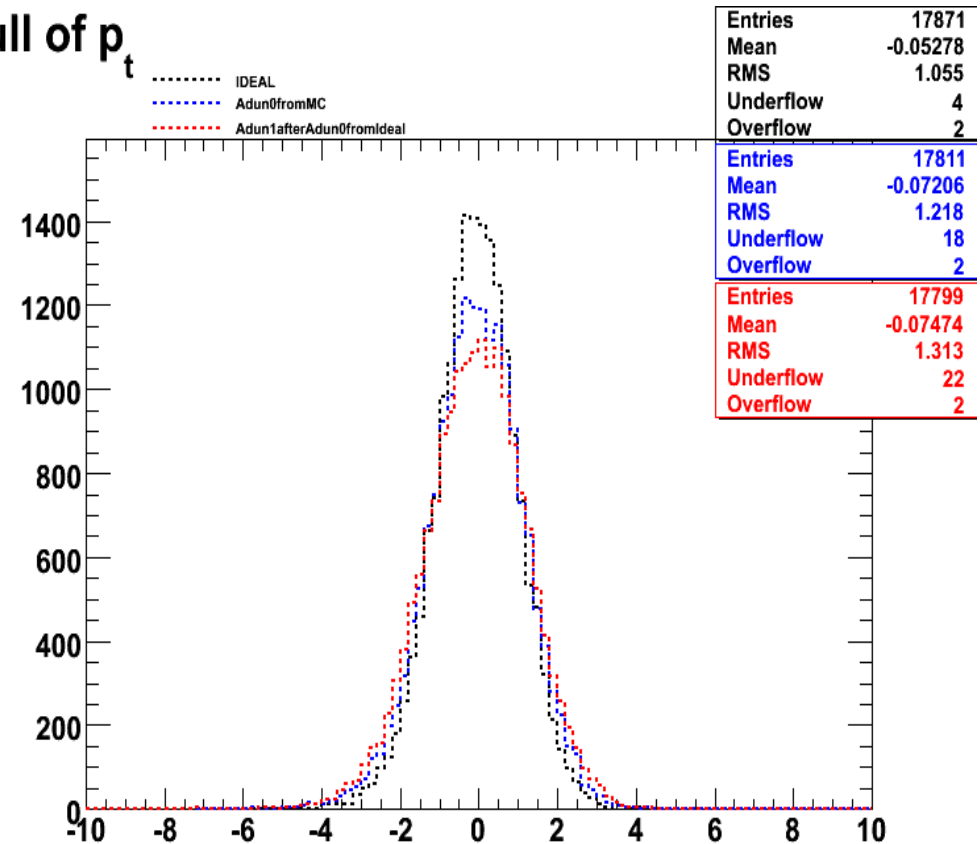
```
#--- Pixel Barrel
  'PixelHalfBarrelDets,111111',
#--- Pixel Forward
  'TrackerTPEBlade,111111',
#--- TIB
  'TIBSSDets,101111',
  'TIBDSDets,101111',
#--- TOB
  '#TrackerTOBBarrel,ffffff', # we will not try that
now!
  'TOBSSDets,101001',
  'TOBDSDets,101001',
#--- TID
  'TIDDets,101001,endCapSS',
  'TIDDets,101001,endCapDS',
#--- TEC
  'TECDets,101001,endCapSS',
  'TECDets,101001,endCapDS',
),
```

- Adun strategy on MC starting from Ideal Geometry
- Validation with muons $p_T=100\text{GeV}$

pull of ϕ parameter

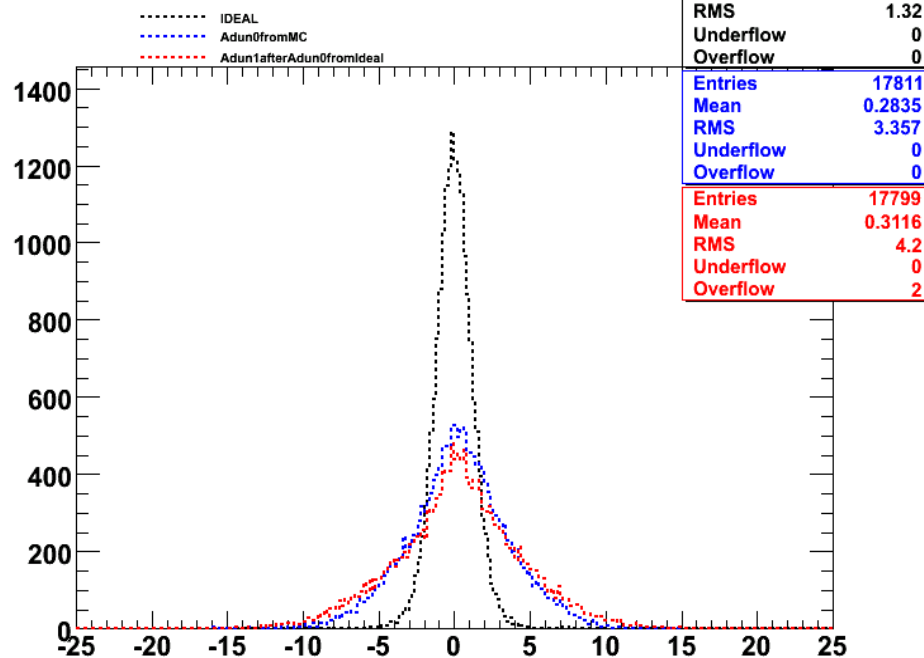


pull of p_t

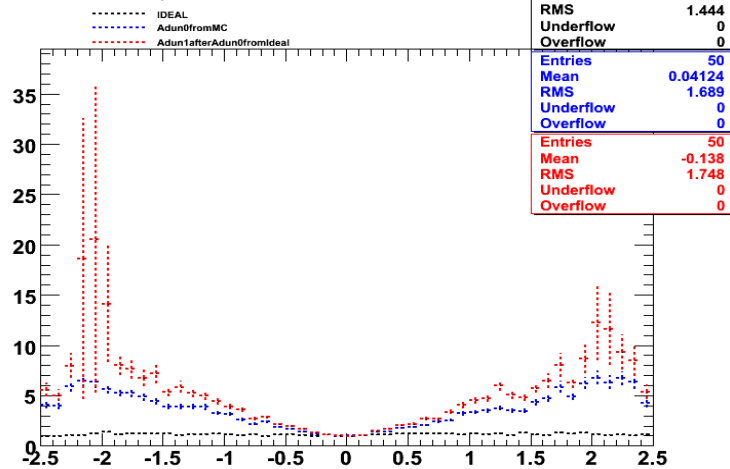


MC Validation Adun strategy

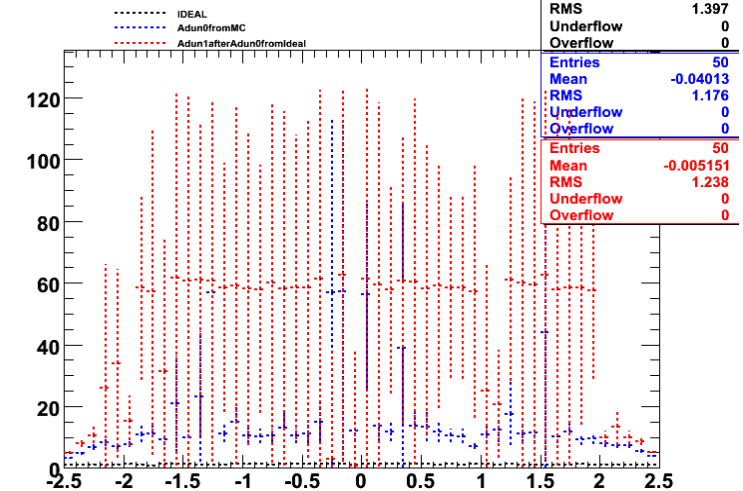
pull of dz parameter



σ of dz pull vs η



σ of dxy pull vs η



pull of dxy parameter

