

Weekly Report

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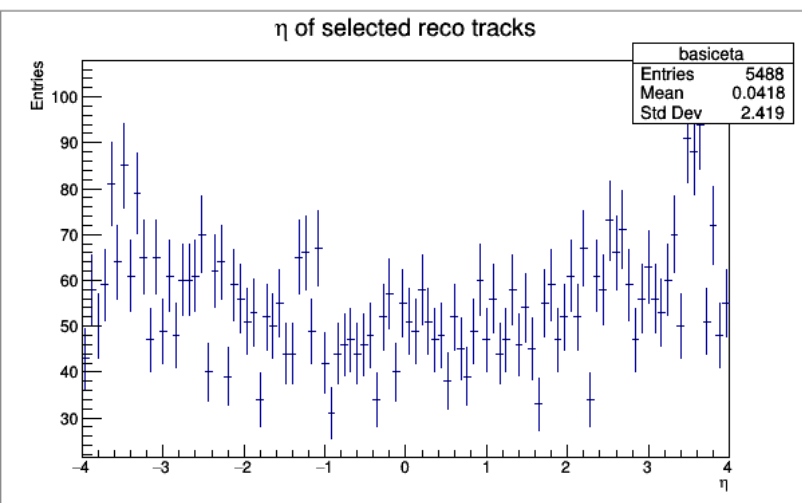
2019-04-29

Dihiggs multi lepton

- Before: Use WWyy sample
 - Should prepare by myself
 - change to multi lepton inclusive, still wwyy dominant
 - 4+1 signal+ more bkg?
- 1l?
 - request yy+1l+MET?
 - How to separate with Lei's group?
- Combination

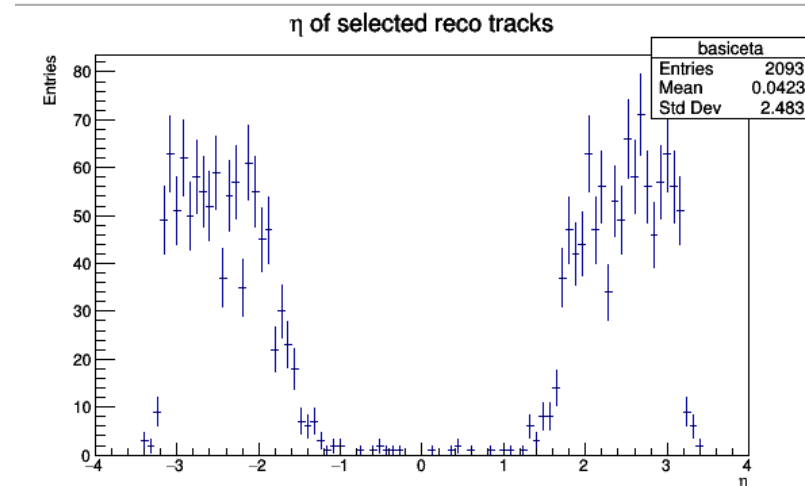
- EMBremCollectionBuilder + EMExtrapolationTools
 - GSF in full eta region
- In new Athena release central region electron is lost
 - not due to my packages
 - reported, waited their fix
- Ask how to finish
 - not replied yet

Normal, with GSF



```
Efficiency reconstruction (number lose+wrong < 3) = 0.32915 ( 0.32915 )
For barrel      region = 0.00000 ( 0.00000 )
For transition  region = 0.00000 ( 0.00000 )
For endcap      region = 0.01732 ( 0.01732 )
For forward     region = 0.90671 ( 0.90671 )
```

Recent athena



```
Efficiency reconstruction (number lose+wrong < 3) = 0.90881 ( 0.90881 )
For barrel      region = 0.96607 ( 0.96607 )
For transition  region = 0.93228 ( 0.93228 )
For endcap      region = 0.84757 ( 0.84757 )
For forward     region = 0.89716 ( 0.89716 )
```