

# **CEPC Remote Group Meeting**

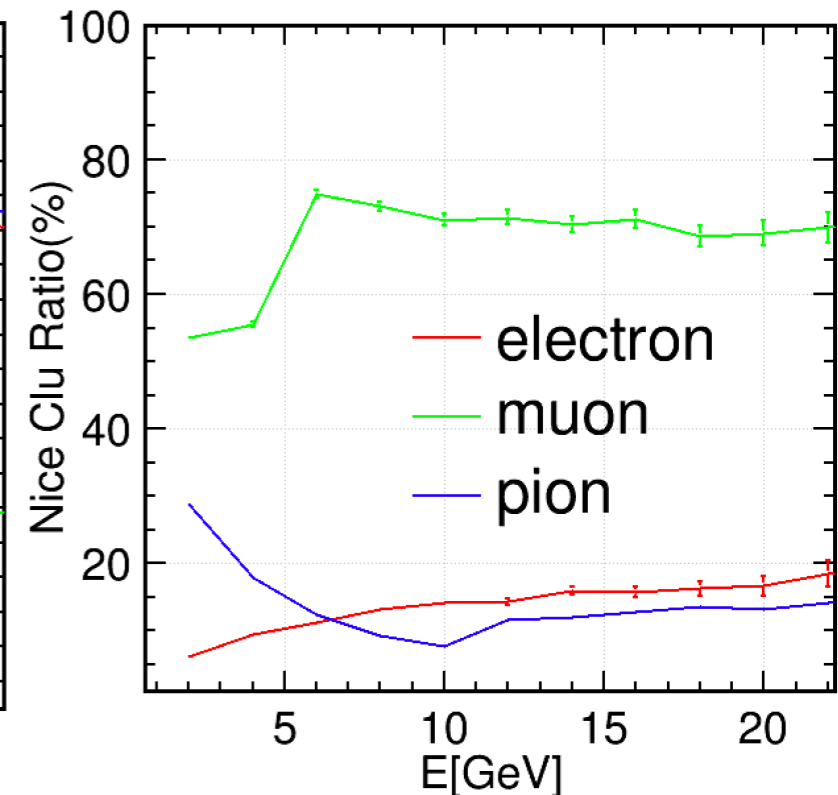
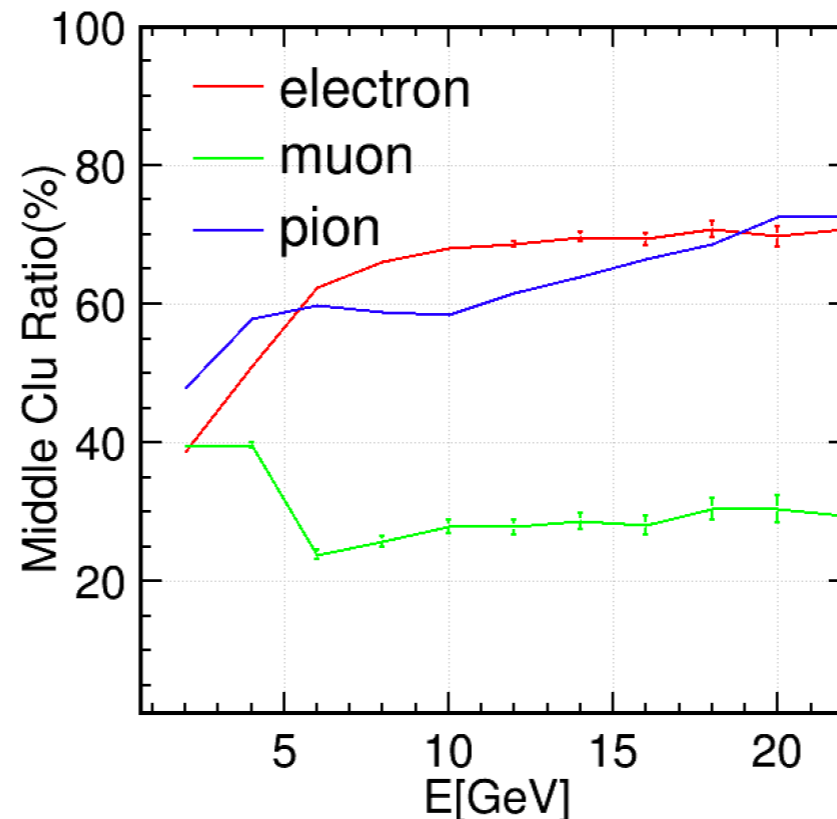
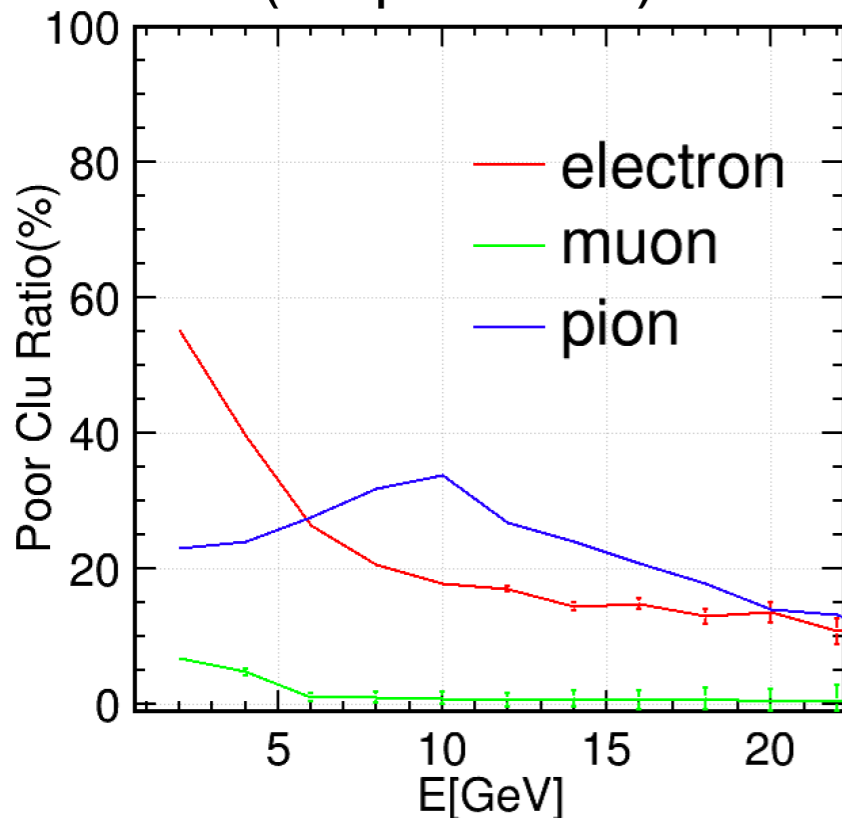
Dan YU

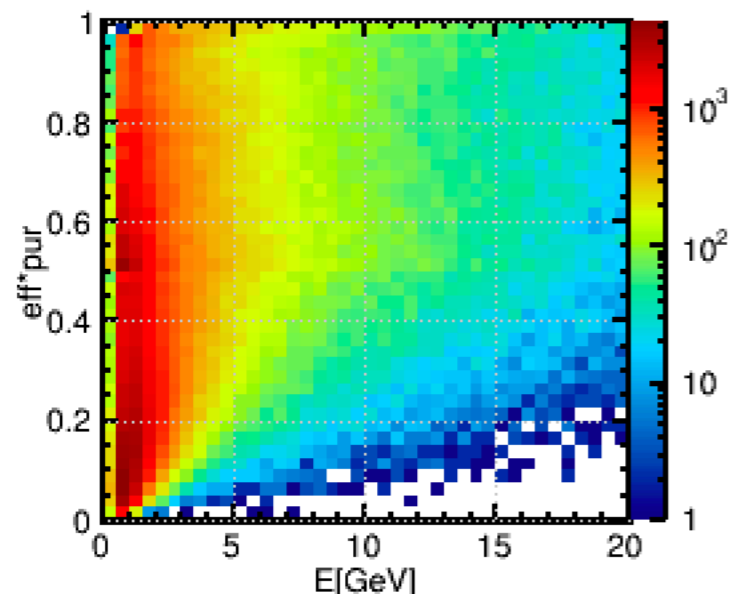
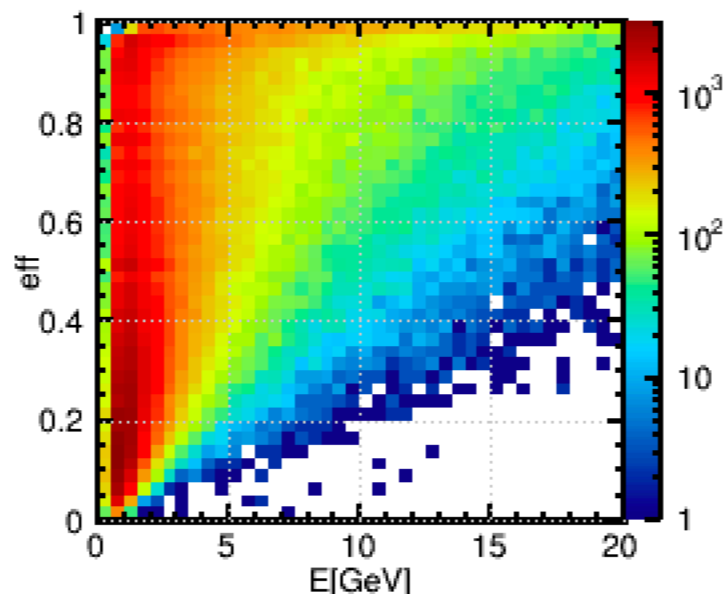
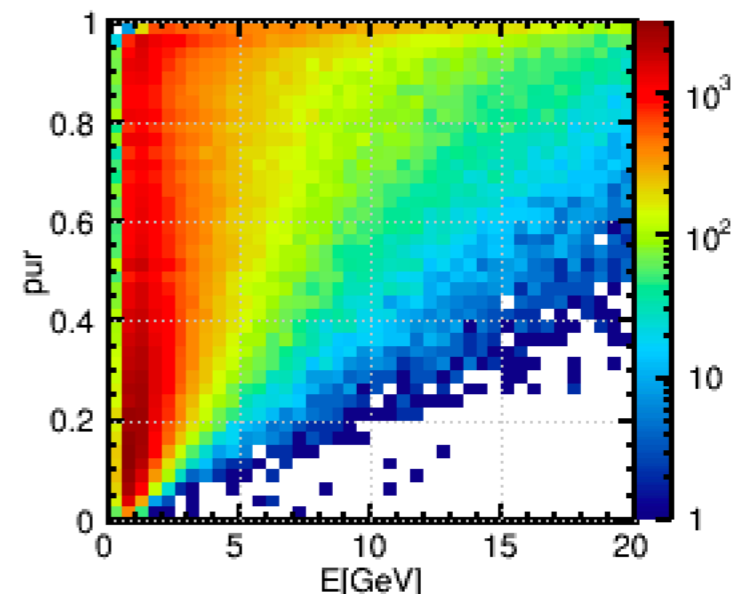
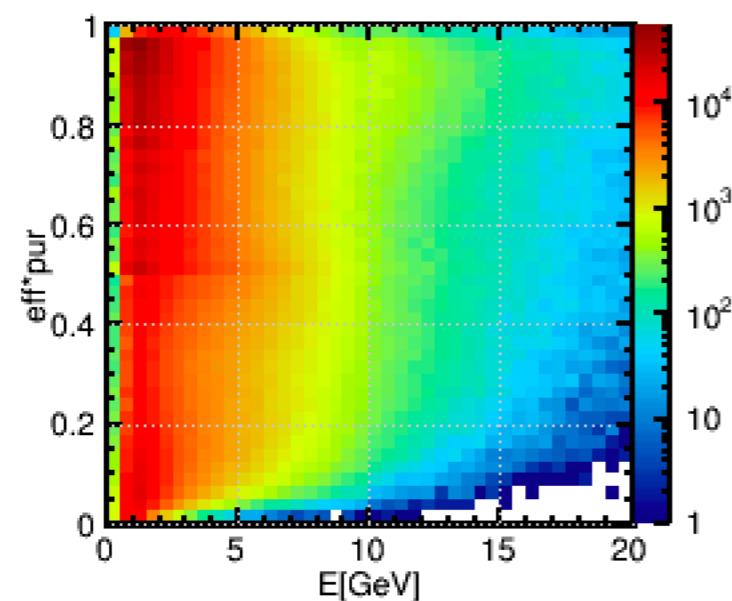
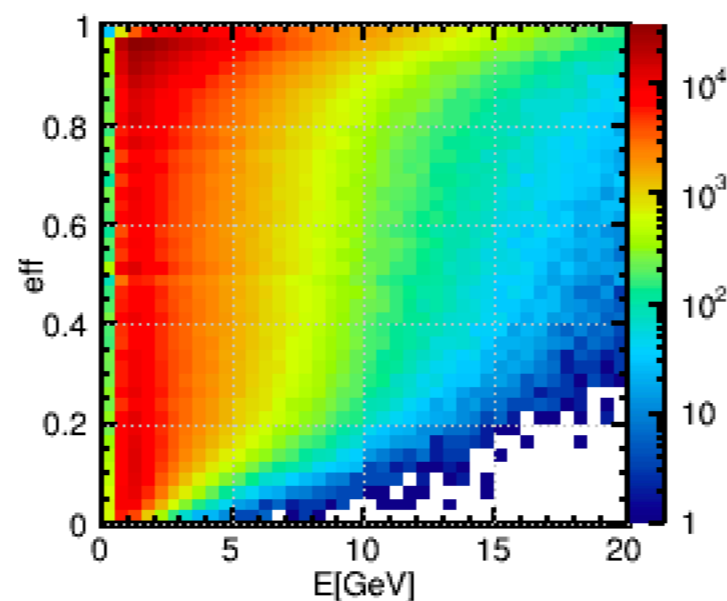
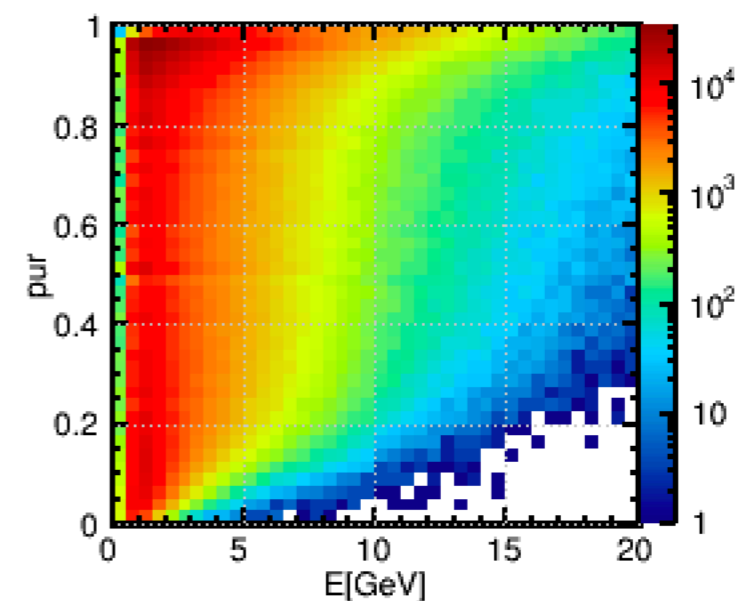
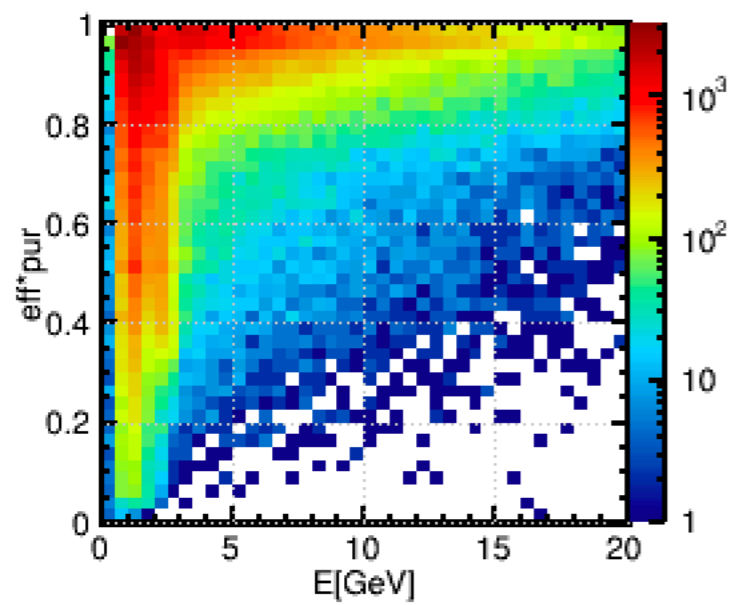
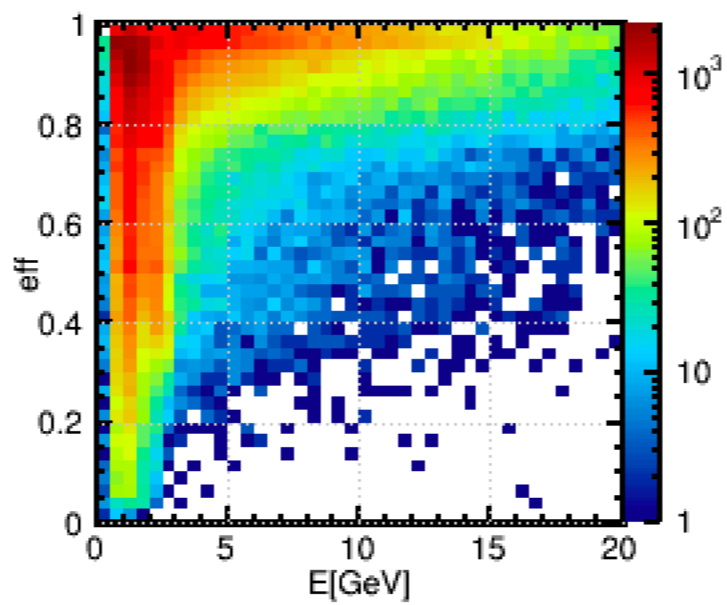
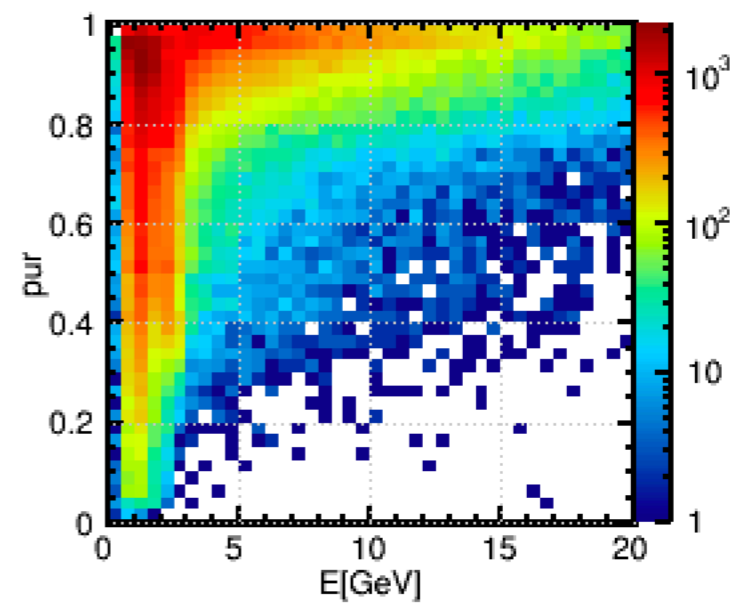
# Lepton ID in jets

- use clustering performance



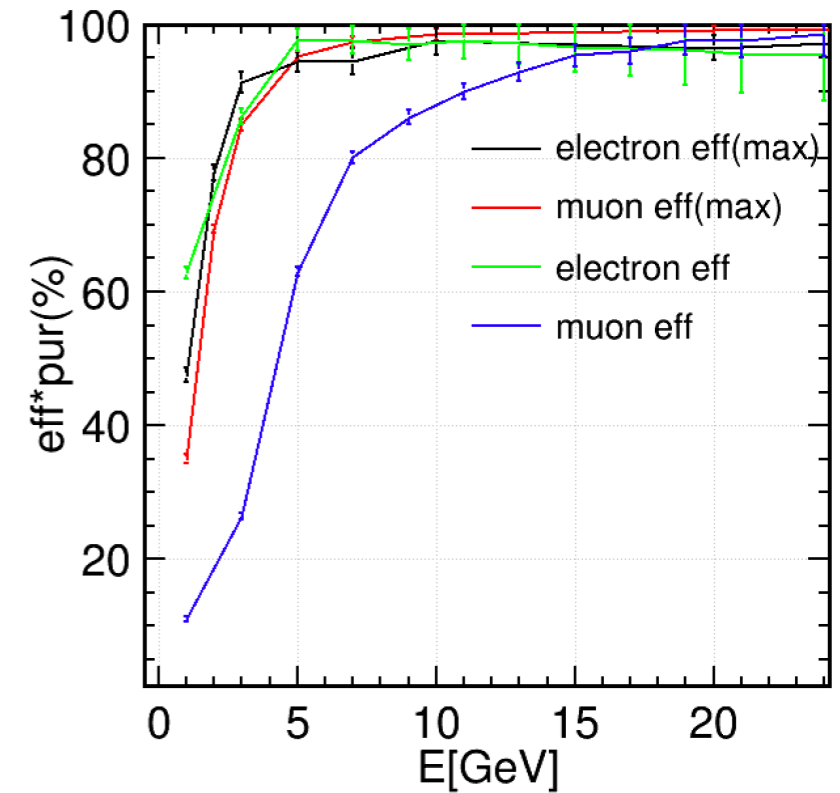
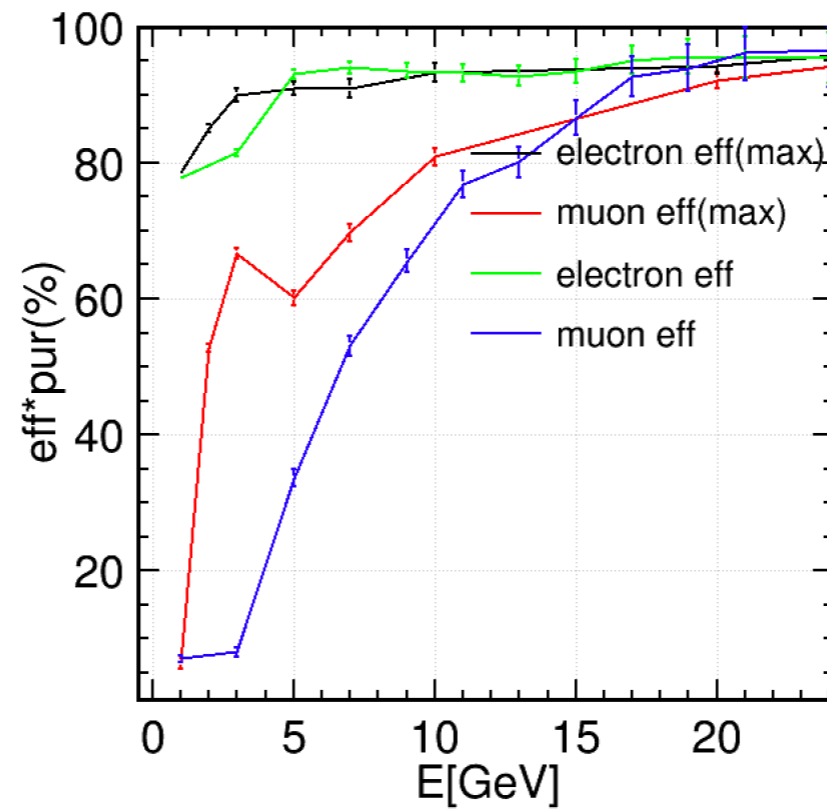
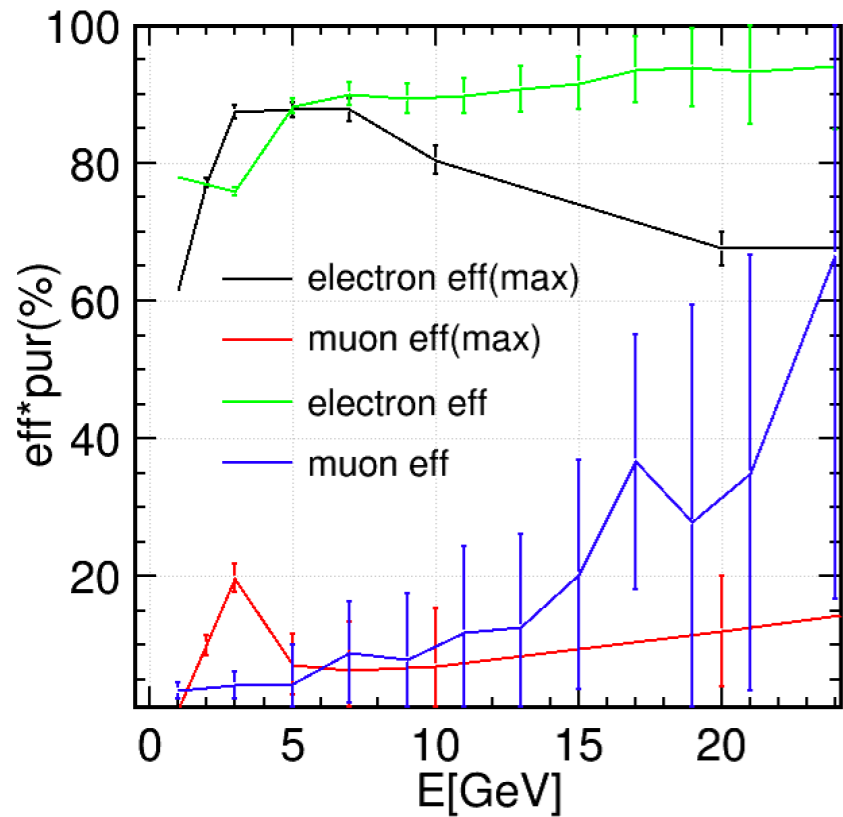
- 3 categories: poor( $\text{eff} \cdot \text{pur} < 0.44$ ), middle( $0.44 < \text{eff} \cdot \text{pur} < 0.92$ ), nice( $\text{eff} \cdot \text{pur} > 0.92$ )

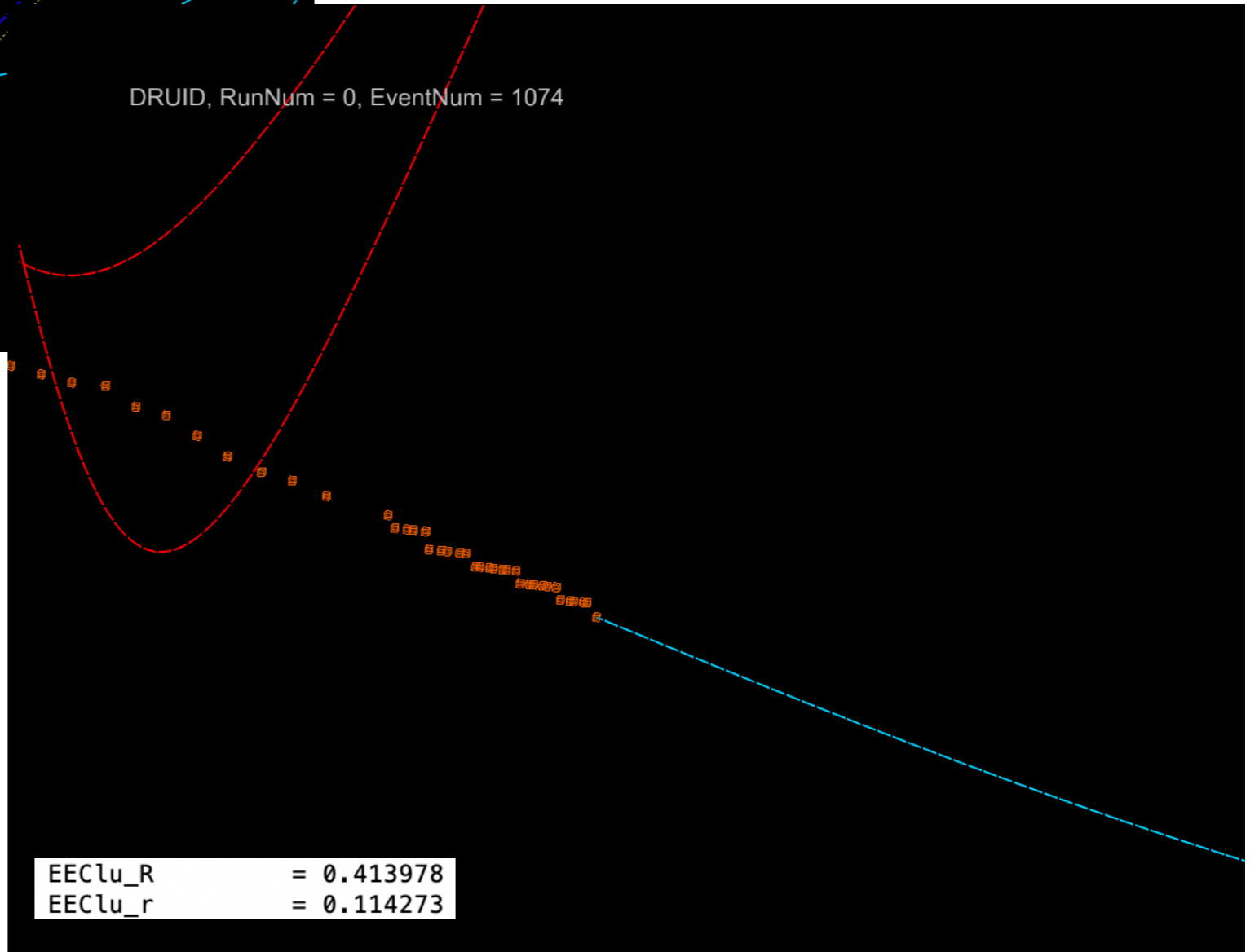
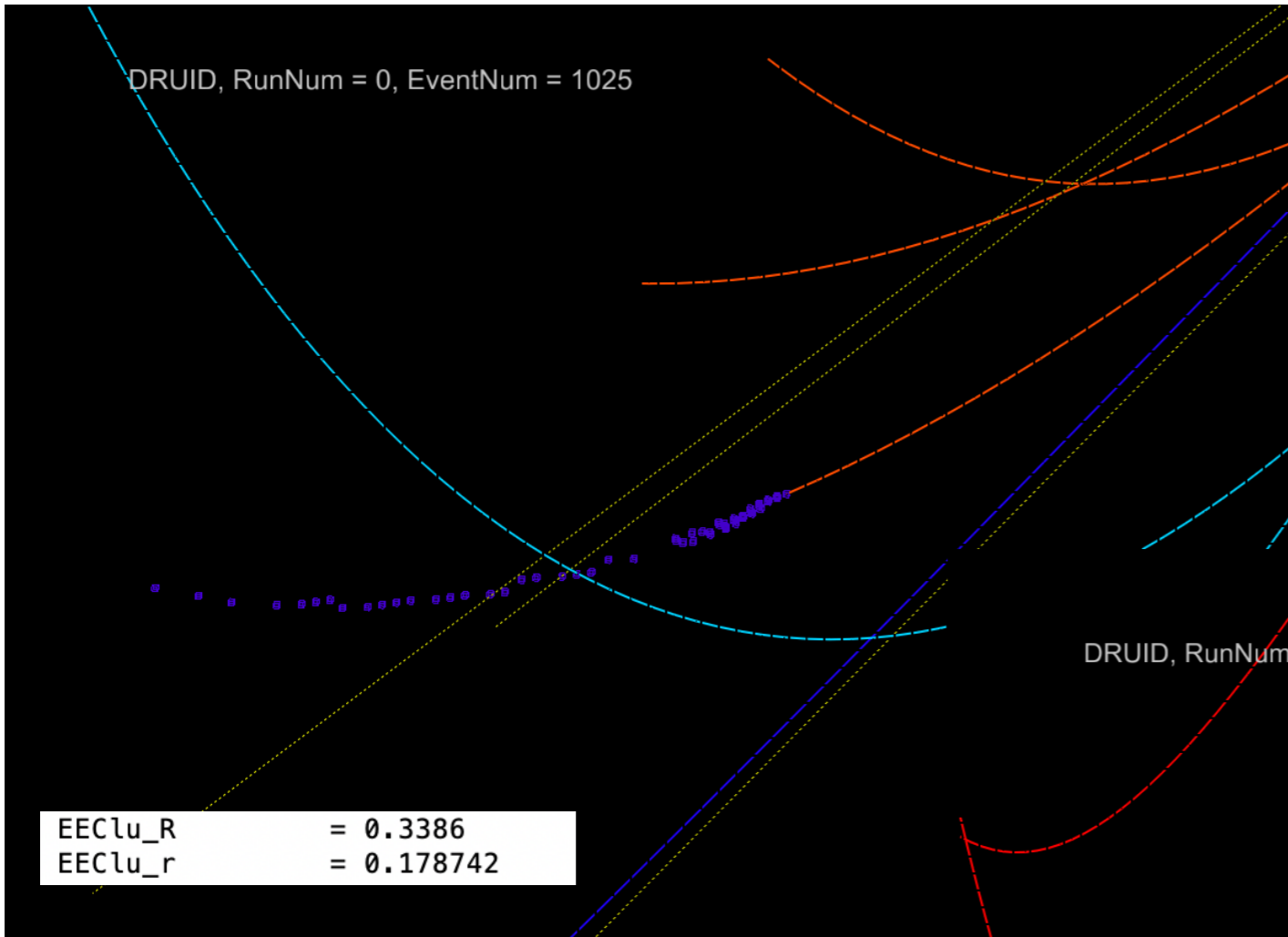


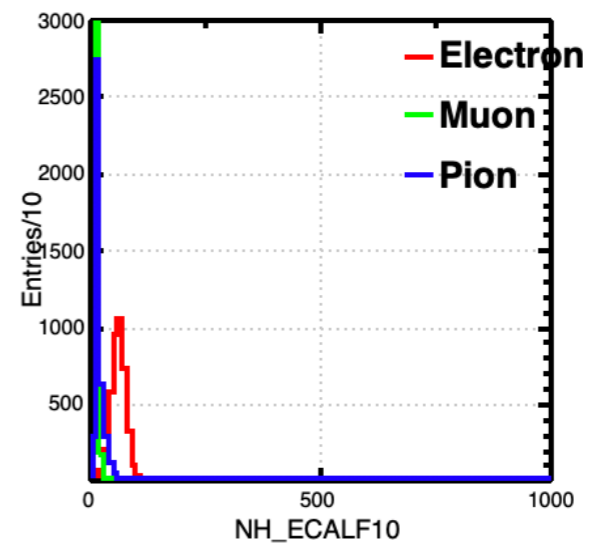
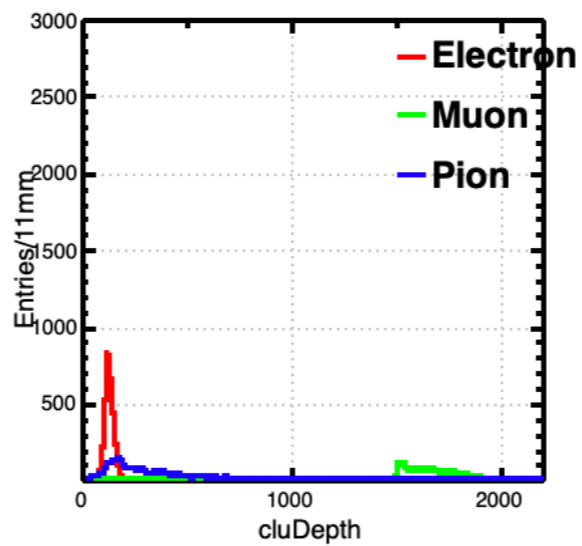
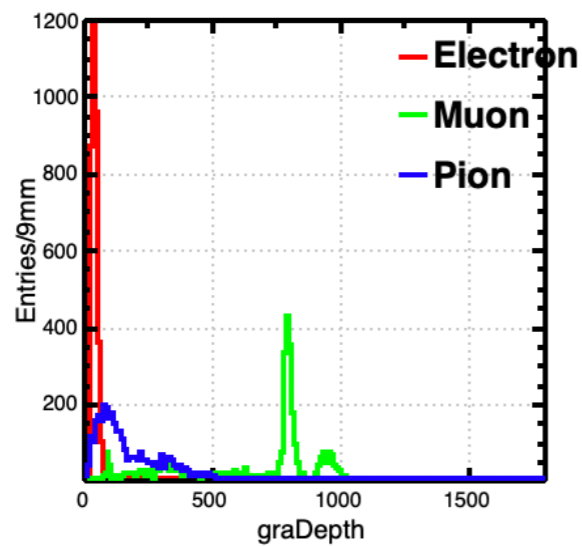
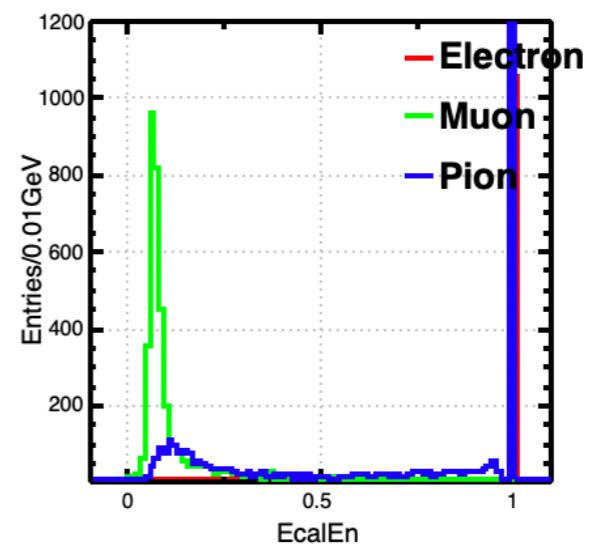
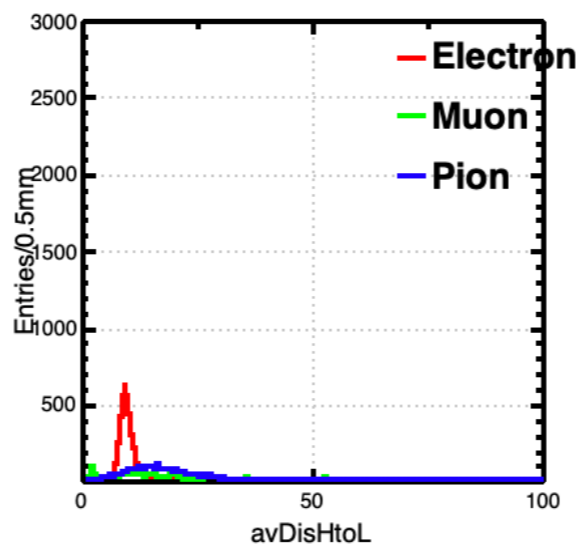
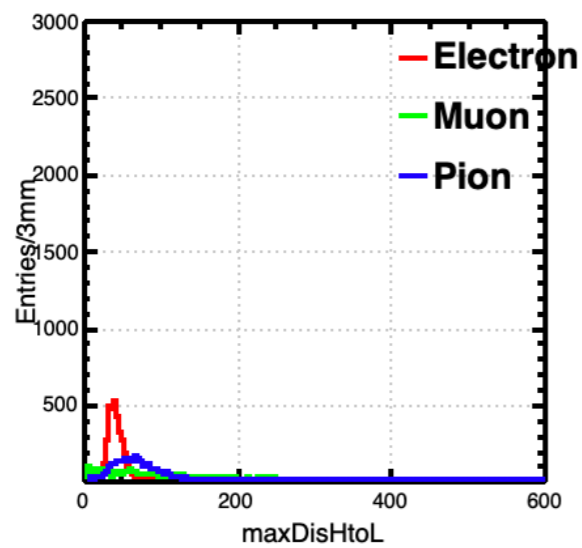
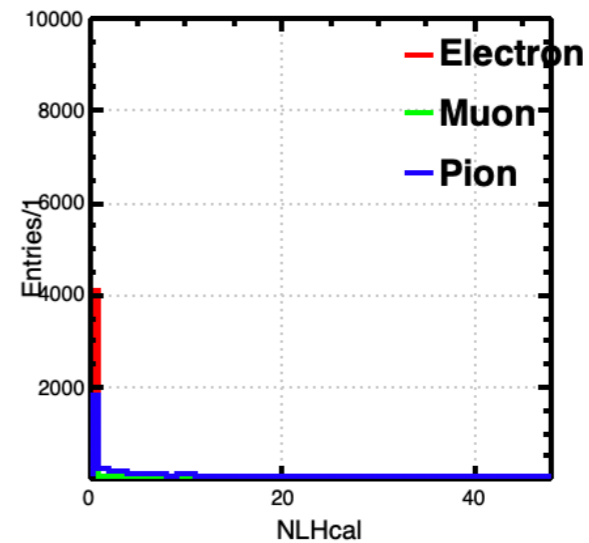
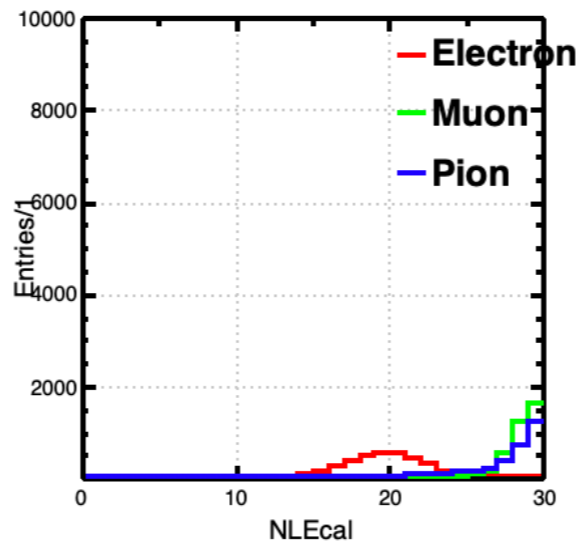
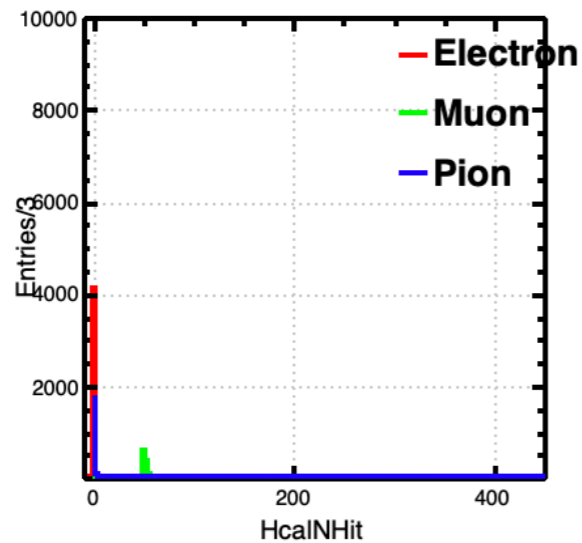
**eff\*pur****eff****pur****eff\*pur****eff****pur****eff\*pur****eff****pur**

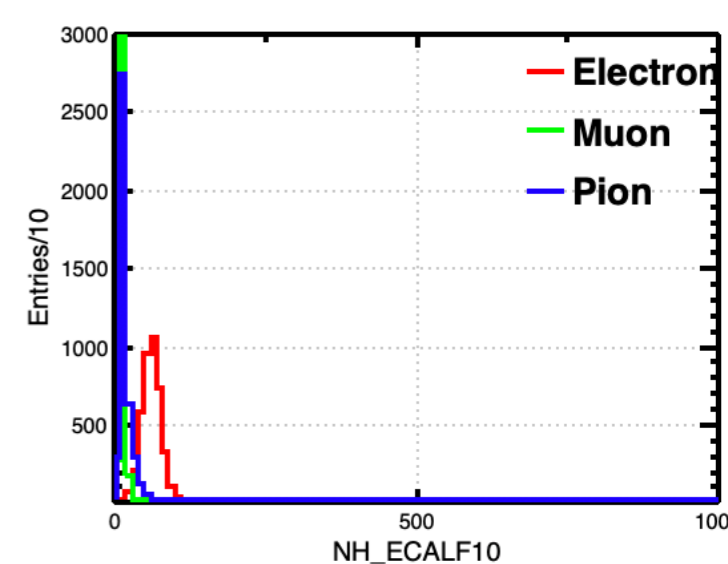
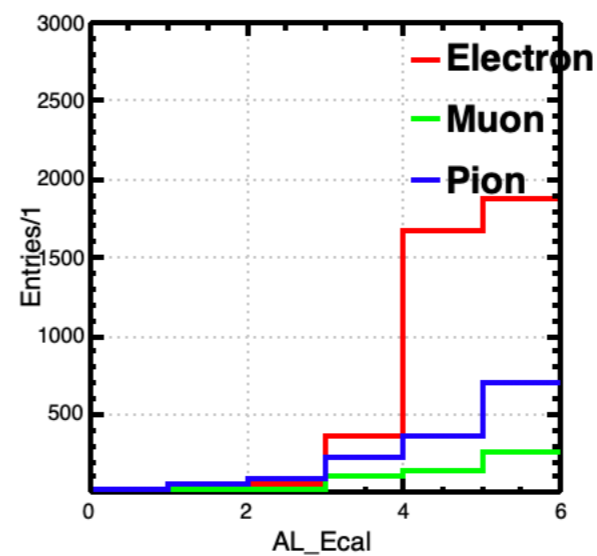
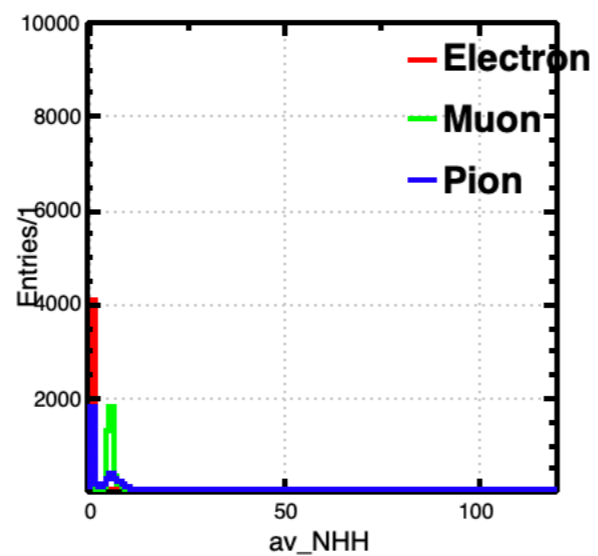
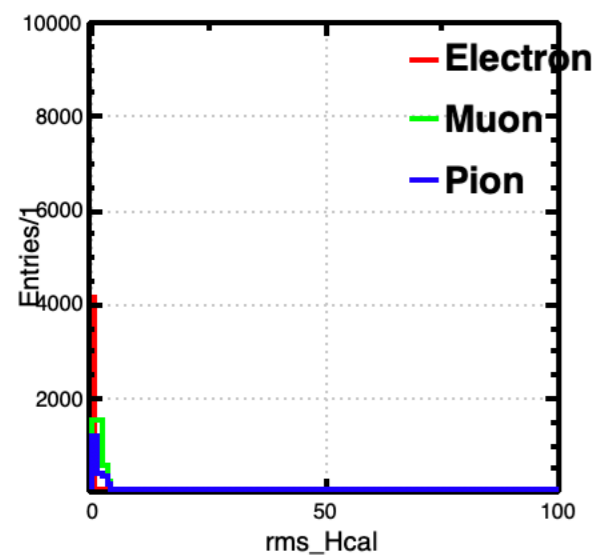
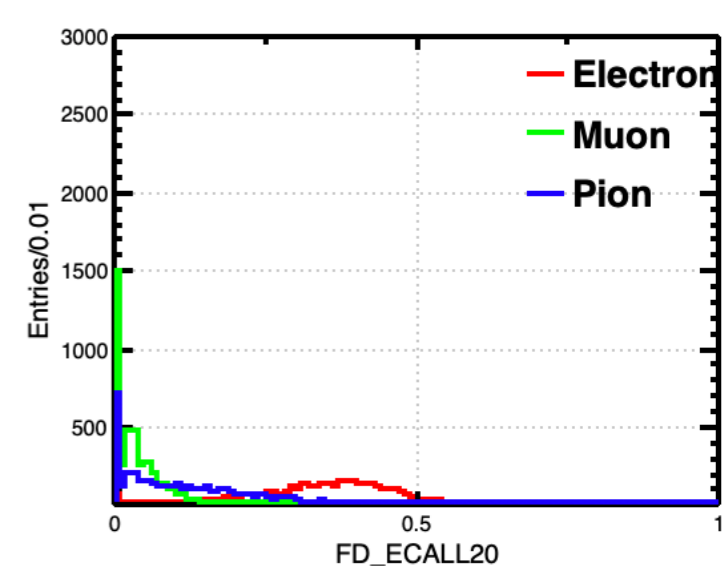
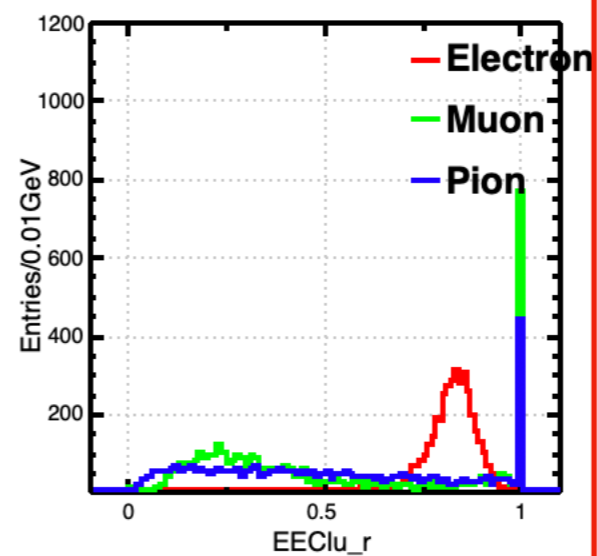
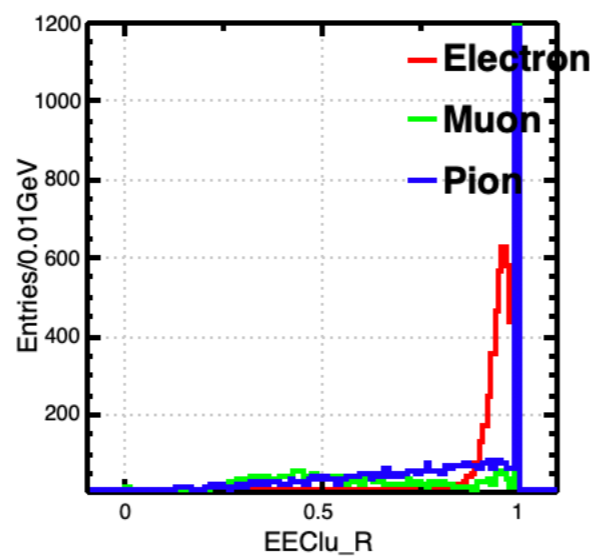
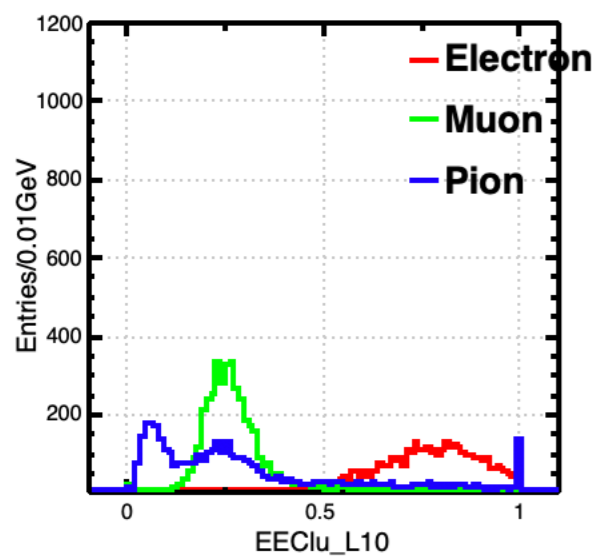
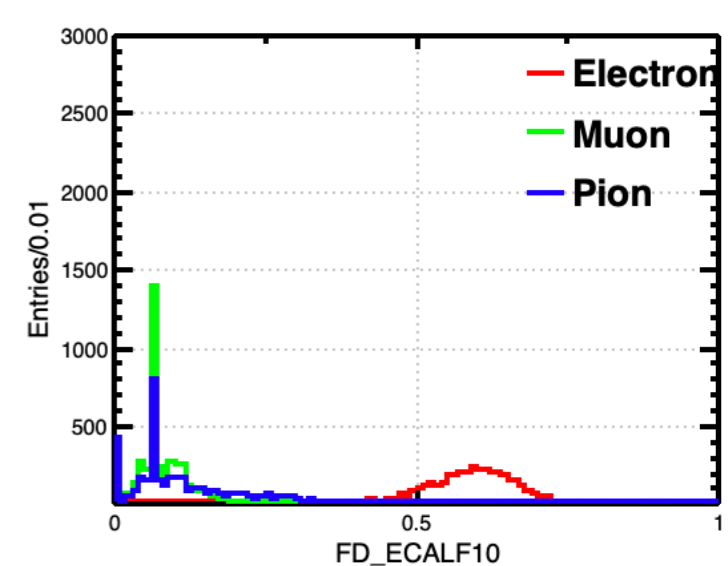
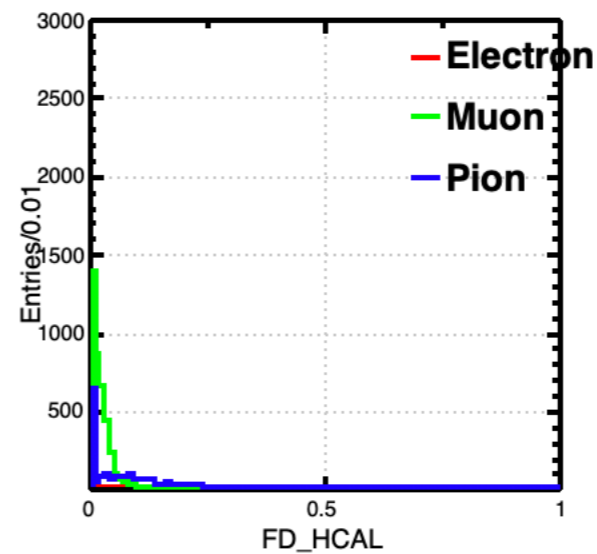
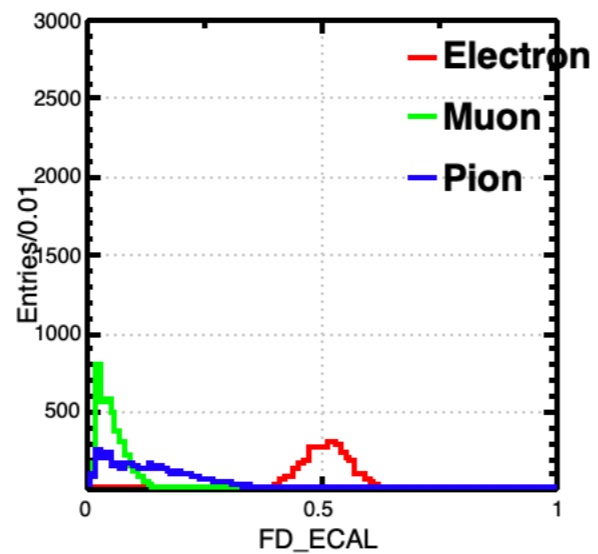
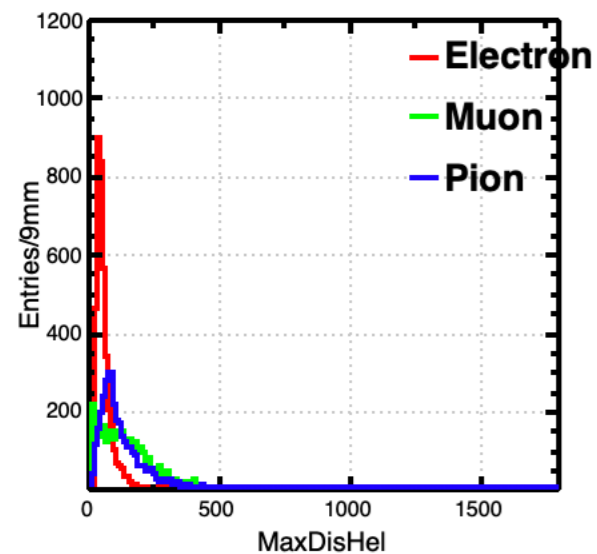
# Performance

- compare with isolate performance convoluted with the statistics in each categories
- “nice” comparable to isolate case



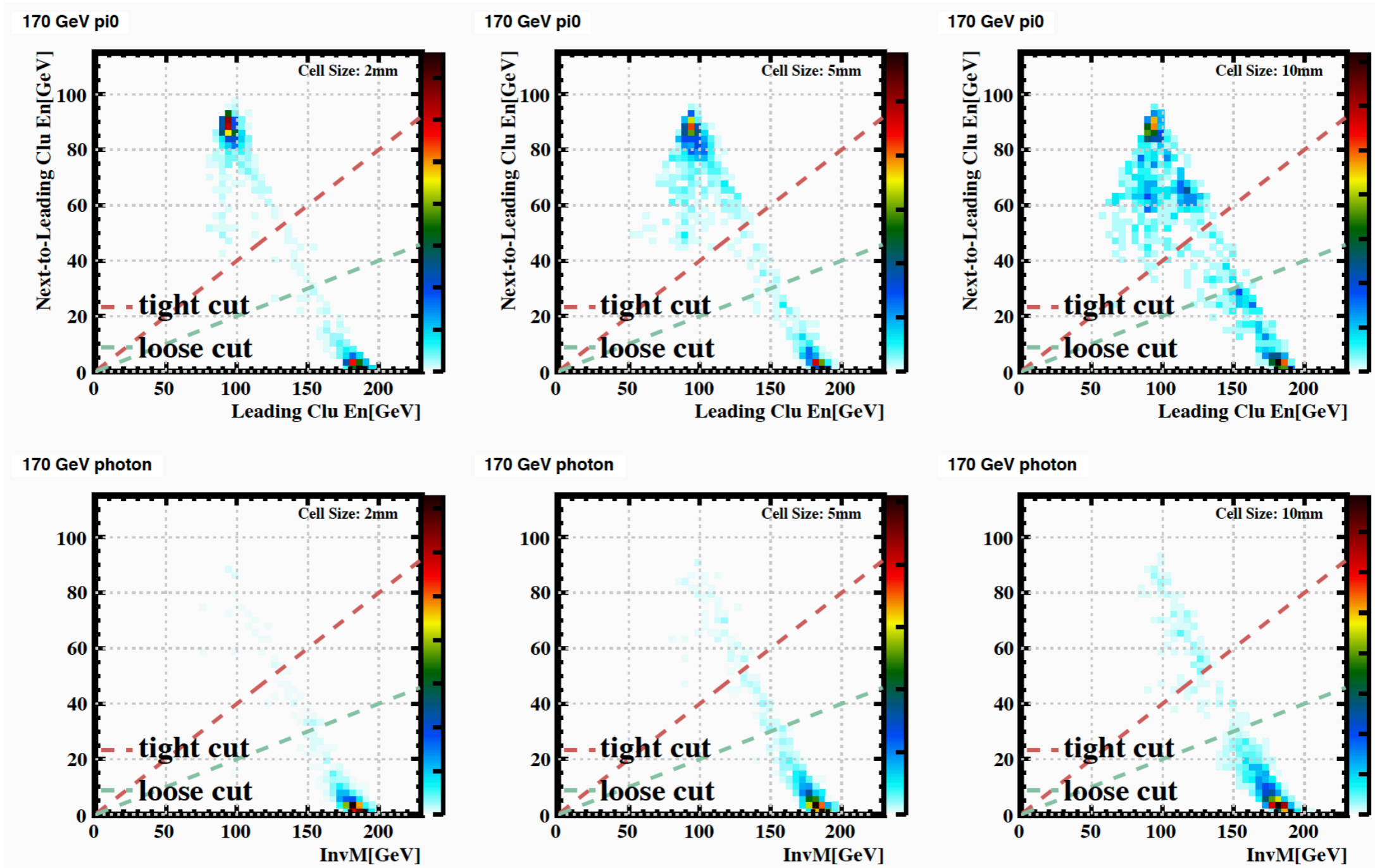






# Photon Separation

- Used 2 cuts(tight/loose) on CluEn1 vs CluEn2 plot

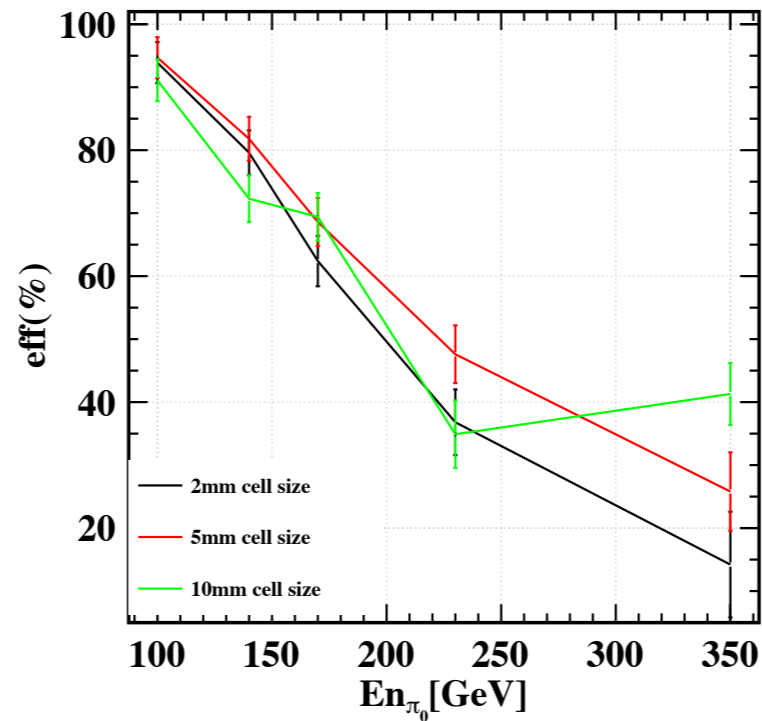




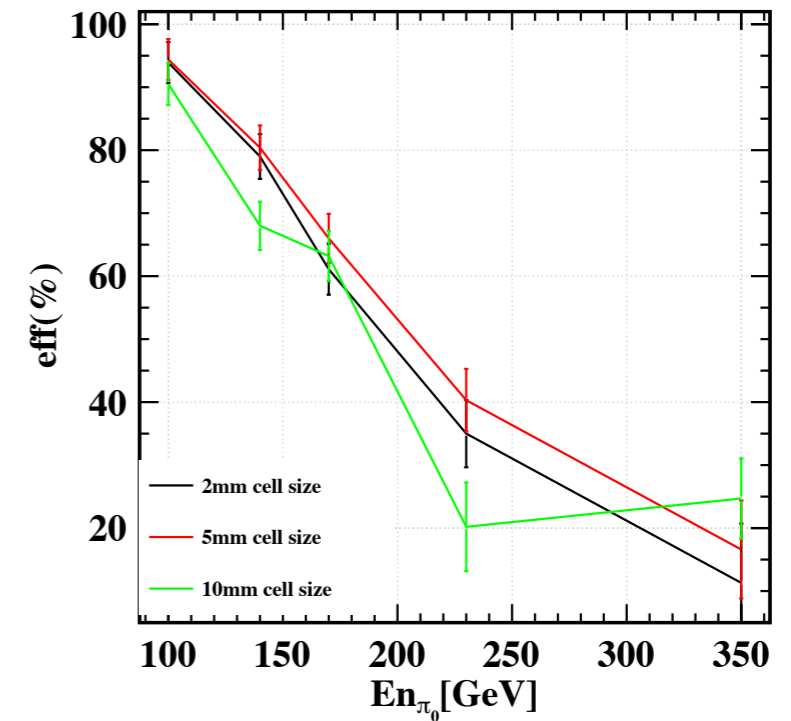
# Photon Separation

- Eff/Mis-id Rate for loose/tight cut

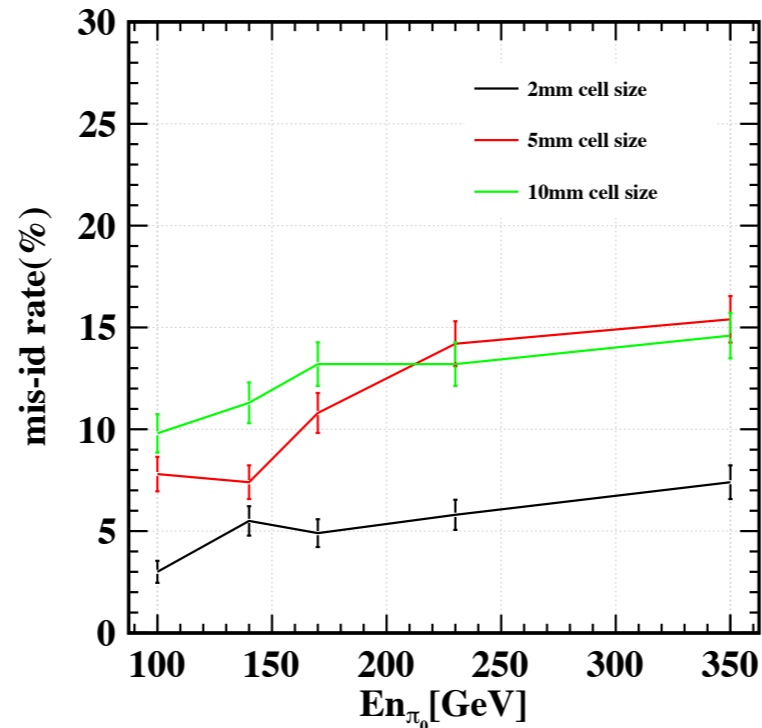
loose



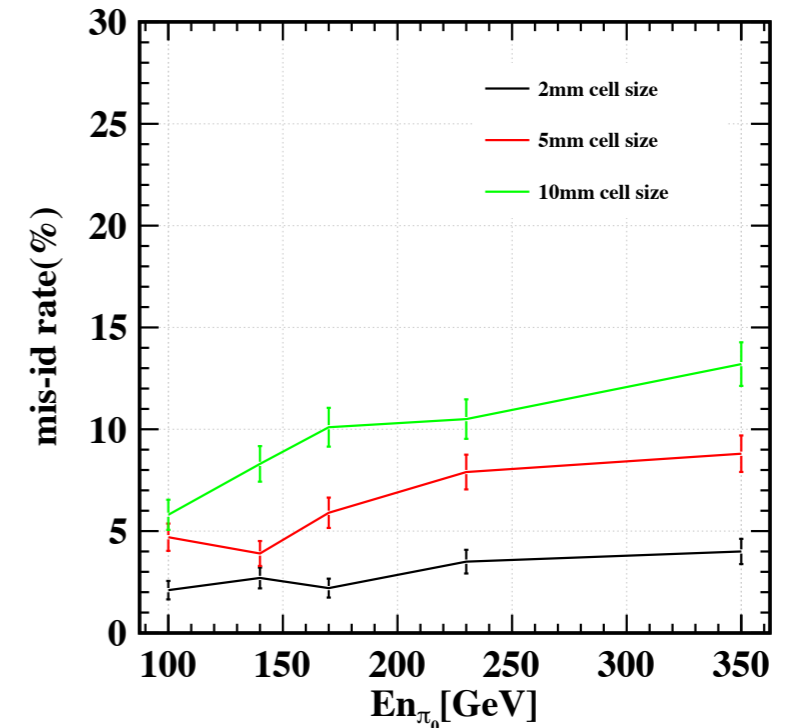
tight



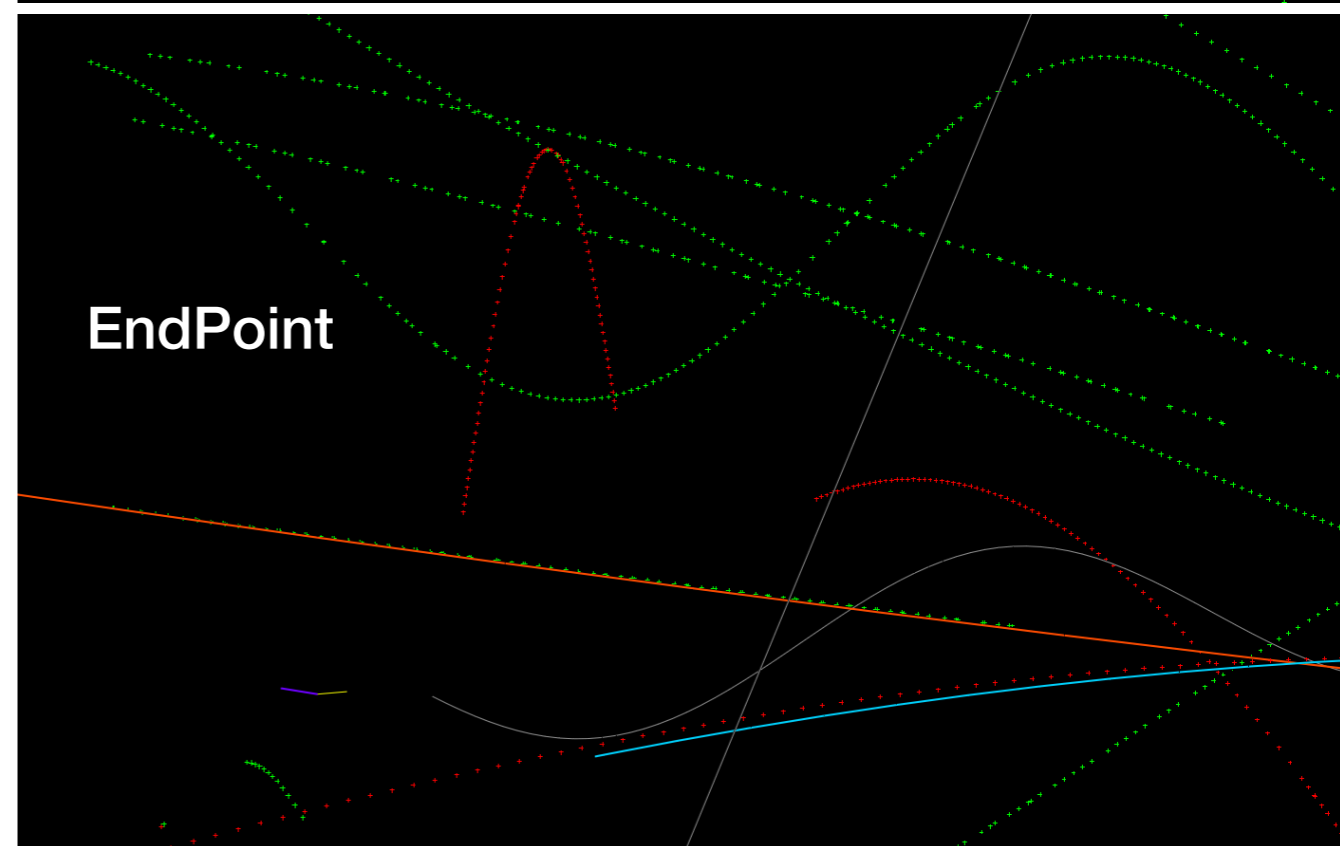
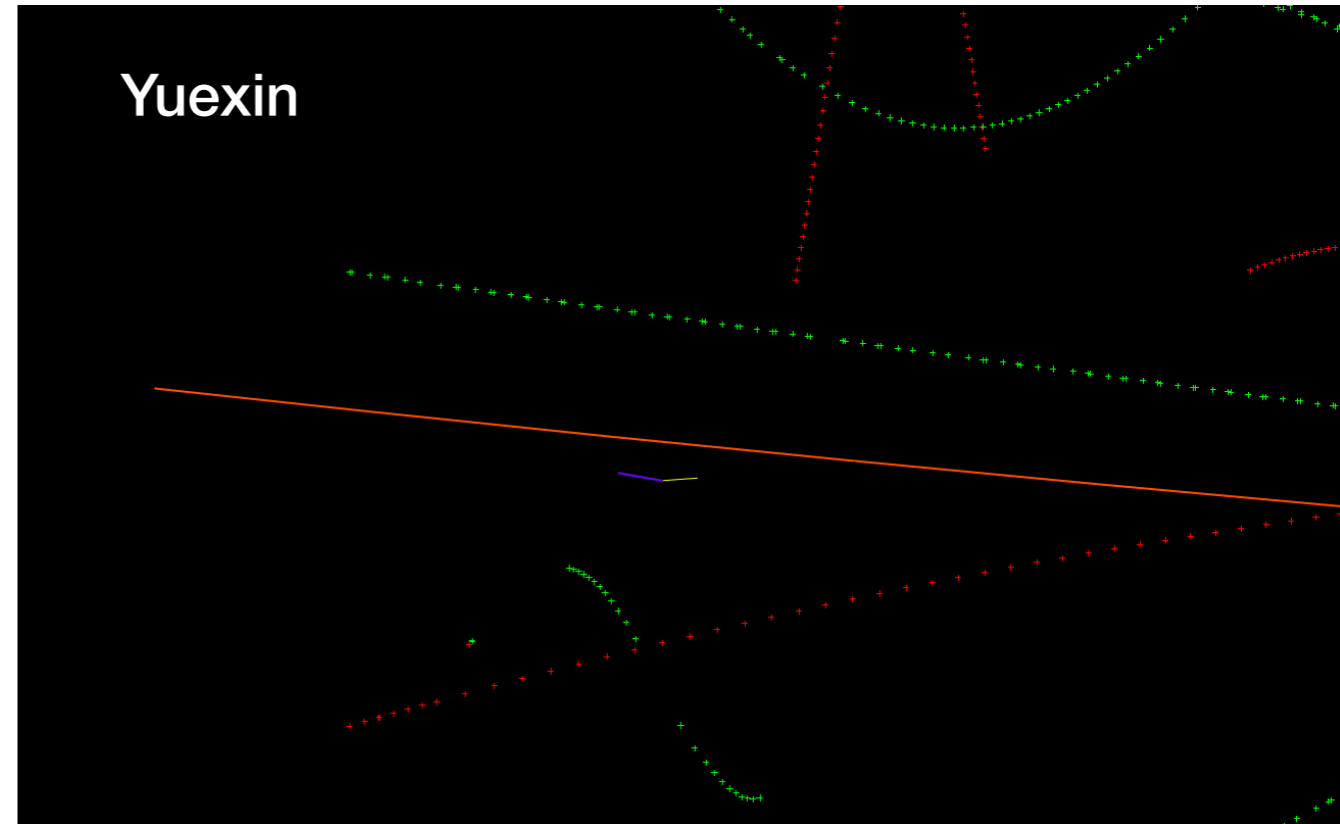
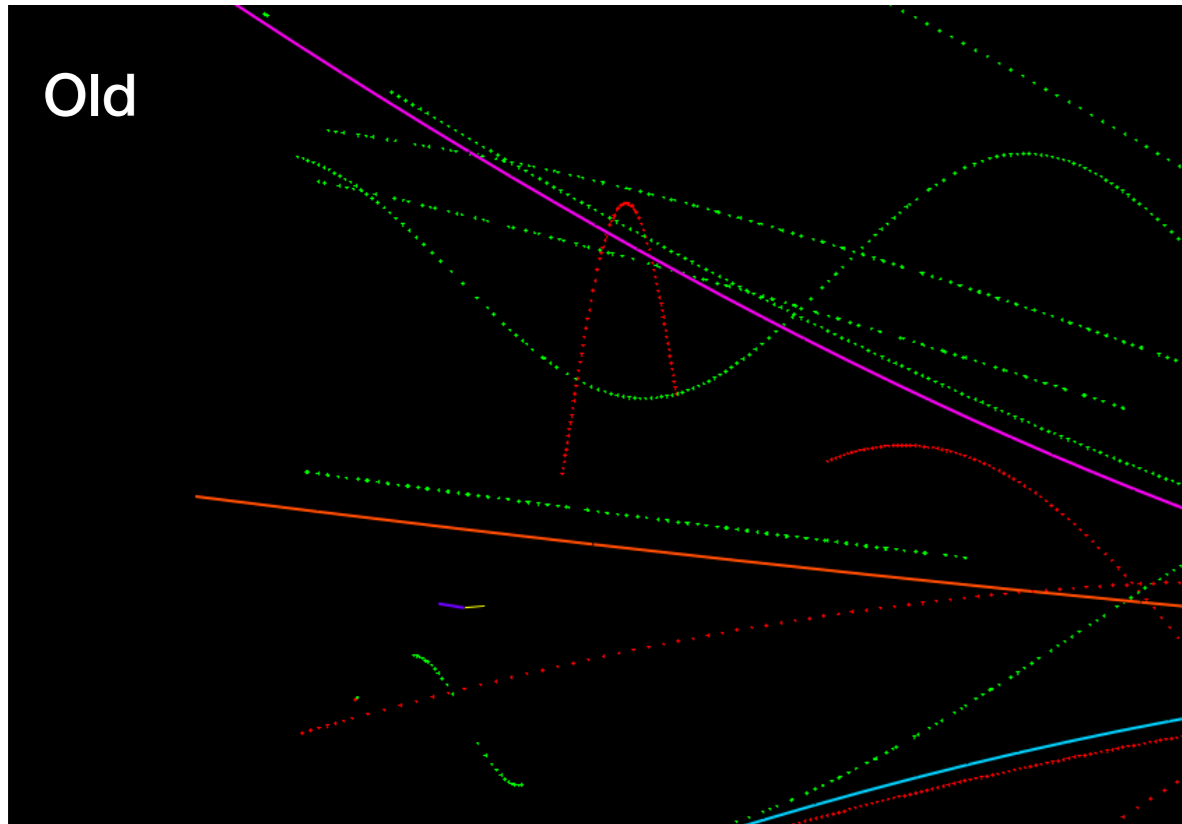
loose



tight



# ImpactPoint Check



- **ImpactPoint** always not fit to the track
- **Druid** use **EndPoint**