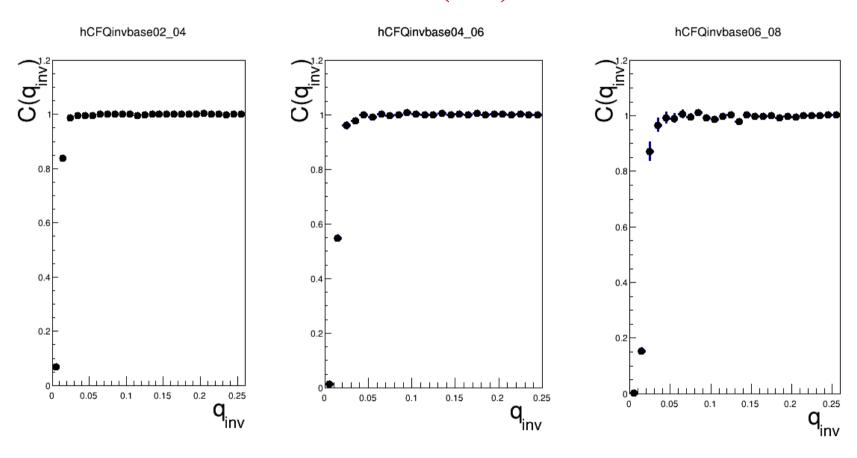
Outline

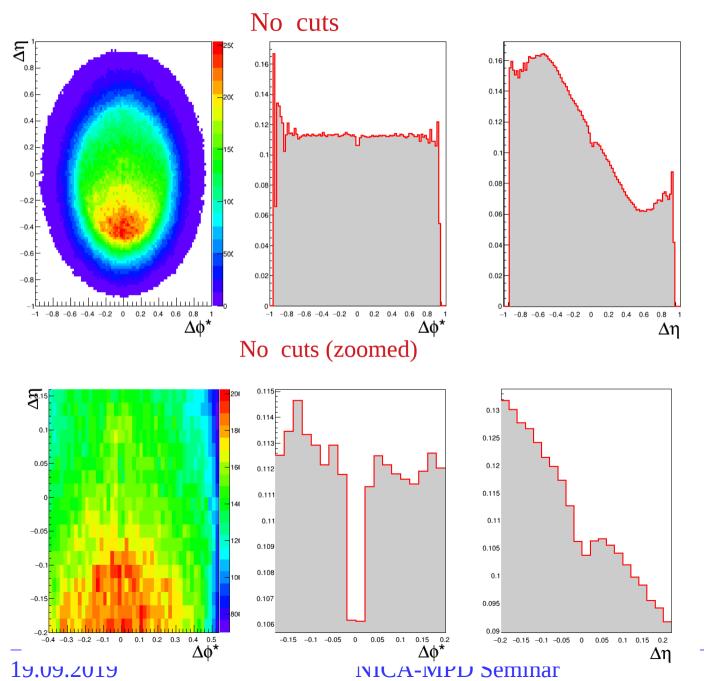
- MC production (vHLLE+GEANT+reconstruction) Au+Au
 - Statistics: \sim 7e5 $\sqrt{s_{NN}}$ =11.5 GeV 0-5%
 - $|Z_{vert}| \le 50$ cm, $|\eta| \le 1$, number of TPC hits ≥ 20 , $p_T \ge 0.2$ GeV/c
 - Pdg = 211

No Two Tracks Cuts (TTC)



Strong merging effect becomes wide with increase of kT

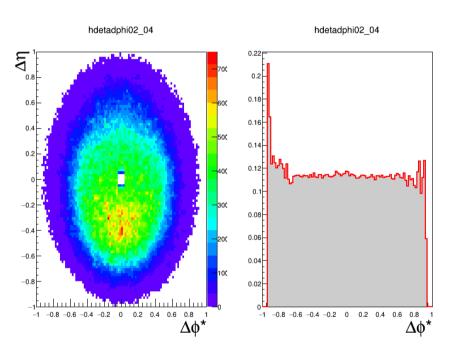
Delta Eta Delta phi* : AuAu √s_{NN}=11.5 GeV 0-5% (vHLLE+GEANT+Rec)

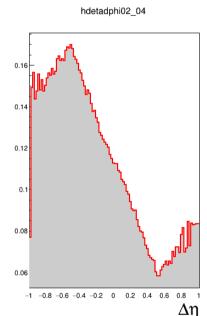


- PRatio of
 Delta Eta-Delta Phi* from
 same event to the one from
 different events
 calculated at rmag=1.0 m
 within TPC
 for qinv<0.2GeV/c
- Slope of delta Eta
 is due to absence
 of randomization (to be done)
- Minimum in Delta phi* <0.02
 Delta eta <0.02
- Suggested Cuts : Delta phi* <0.04Delta eta <0.02

Delta Eta Delta phi* : AuAu √s_{NN}=11.5 GeV 0-5% (vHLLE+GEANT+Rec)

After cuts application

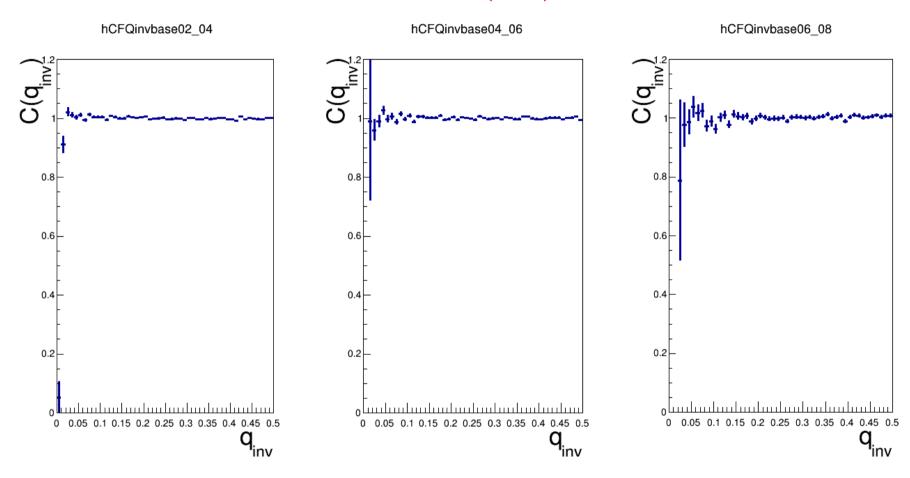




- Ratio of Delta Eta-Delta Phi* from same event to the one from different events calculated at rmag=1.0 m within TPC for qinv<0.2GeV/c
- Hole in Delta phi* <0.04Delta eta <0.02

due to cuts application to
Numerator (same events)
and Denominator (mixed events)
the same hole in
Numerator and Denominator

After Two Tracks Cuts (TTC)



- Merging effect not completely killed by Delta Eta Delta Phi* cuts
- I was trying to use different variants (e.g, check Delta Eta Delta Phi 8 each 2 cm
- Within TPC)

Backup slides