

TOF Meeting

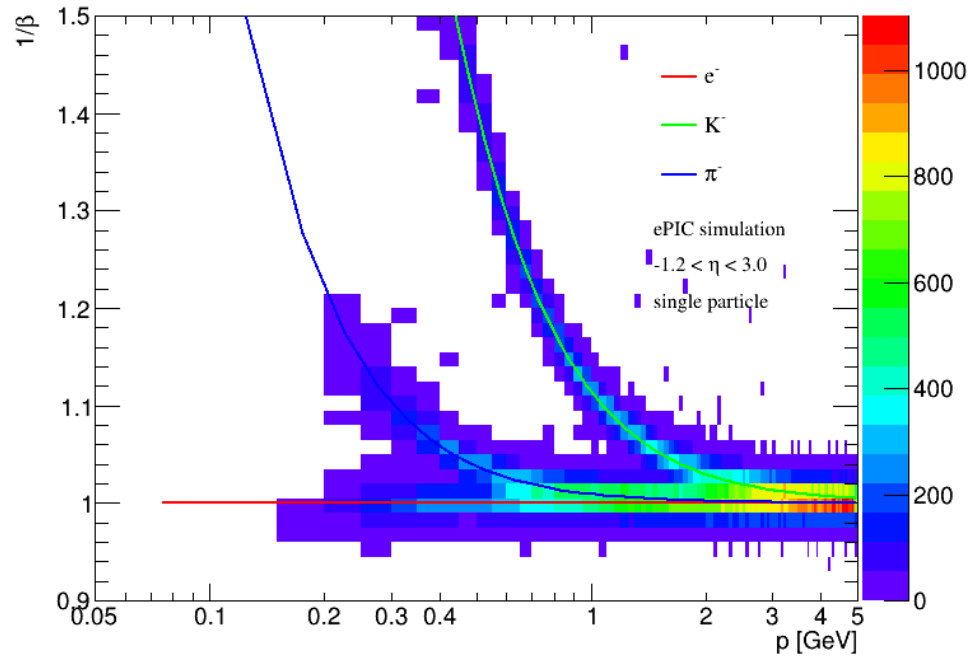
2024/7/30

Sinshu univ

Kyohei Ono

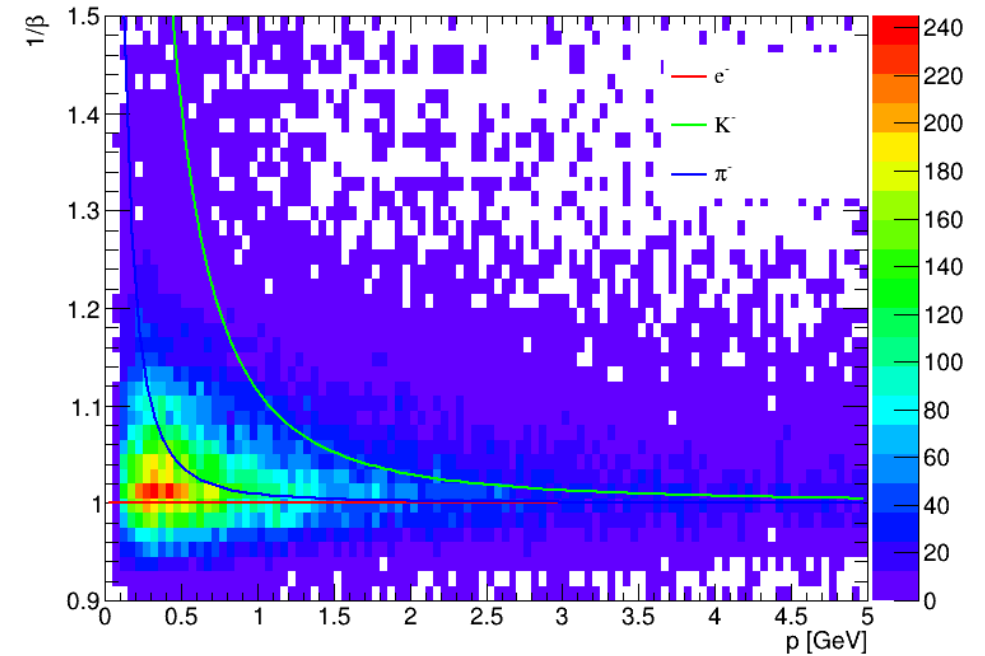
PID performance

Particle gun



Good result !

Pythia 8 ep : 10x100



Poor result ?

In progress...

Review of analysis code

Background data location

- **Synchrotron Radiation :**

?

- **Electron Beam gas :**

S3/eictest/EPIC/EVGEN/BACKGROUNDS/BEAMGAS/electron

- **Proton Beam Gas :**

S3/eictest/EPIC/EVGEN/BACKGROUNDS/BEAMGAS/proton/pythia8.306-1.0/

- **No details :**

S3/eictest/EPIC/EVGEN/BACKGROUNDS/bgmerged_ep_noradcor.10x100_q2_10_100_run001_n_10000.hepmc

In progress...

Investigation of these data

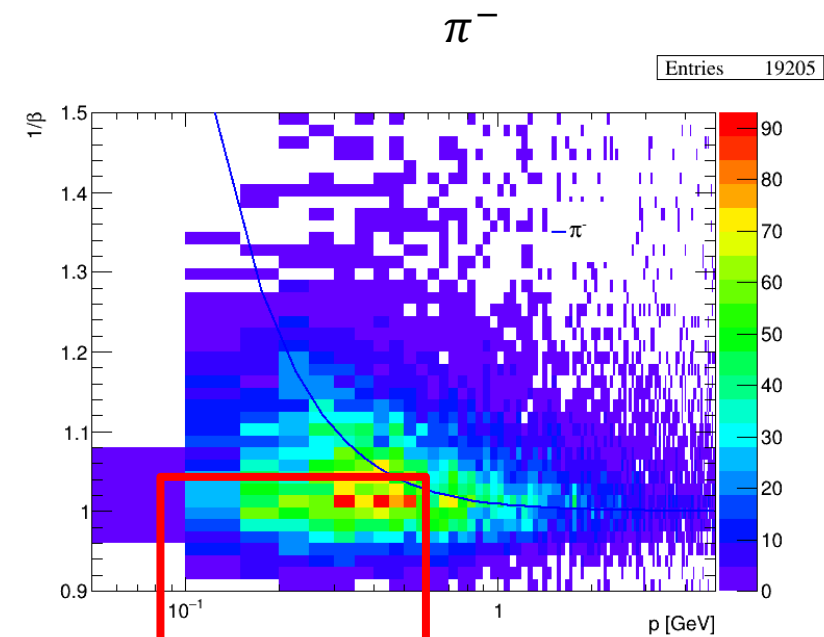
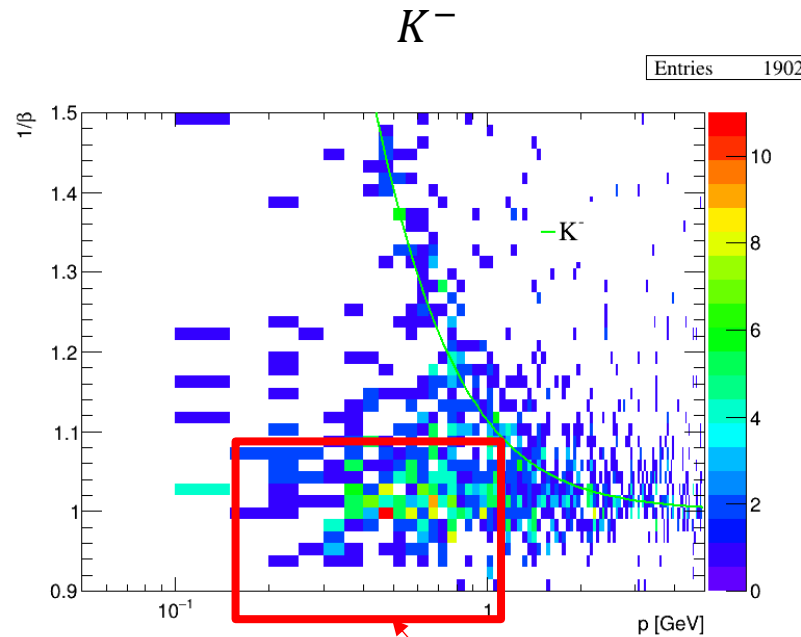
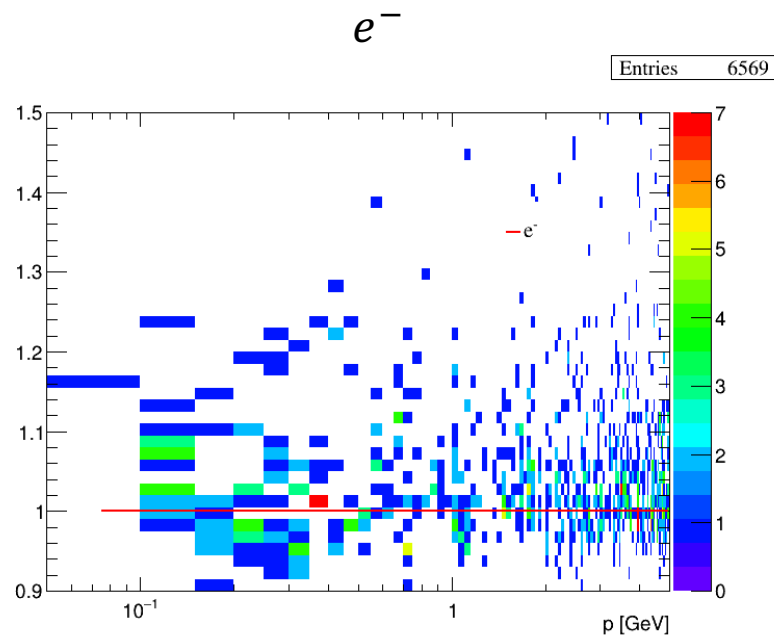
To do

- PID performance improvement
- Background data investigation

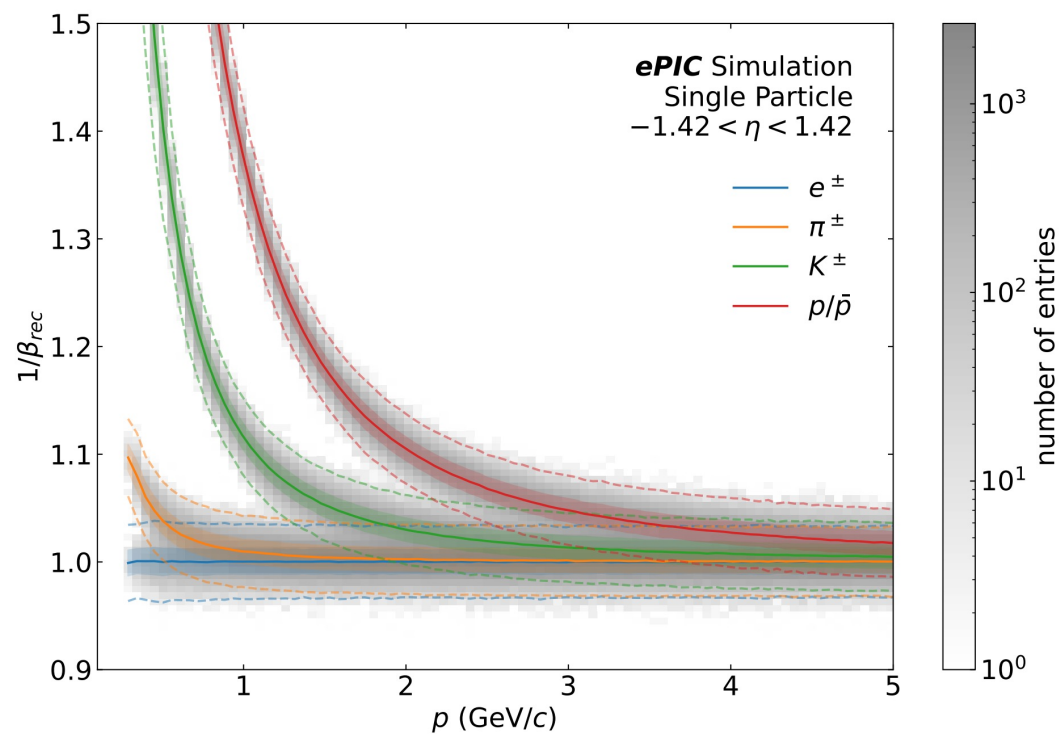
BACKUP

Pythia PID Performance

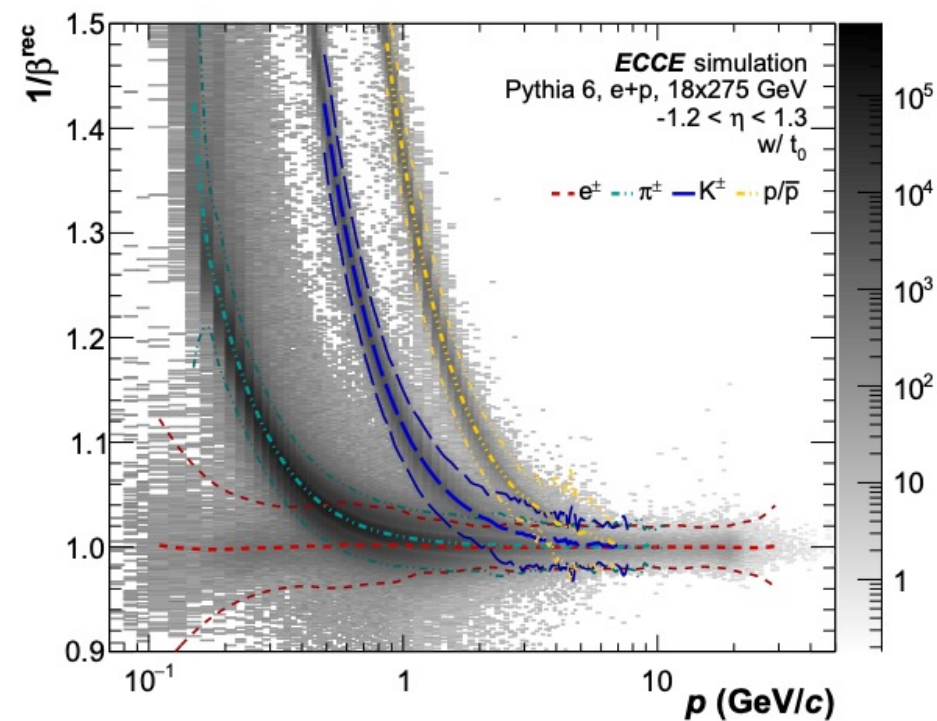
Results by particle



Not discriminating



Barrel TOF PID Performance
By ePIC simulation



barrel TOF PID Performance
by ECCE simulation