

Some basic plots of efficiency and resolution

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Outline

- ❑ Efficiency plots for all charged hadrons
- ❑ Efficiency plots for charged pions
- ❑ Momentum resolution of all charged hadrons

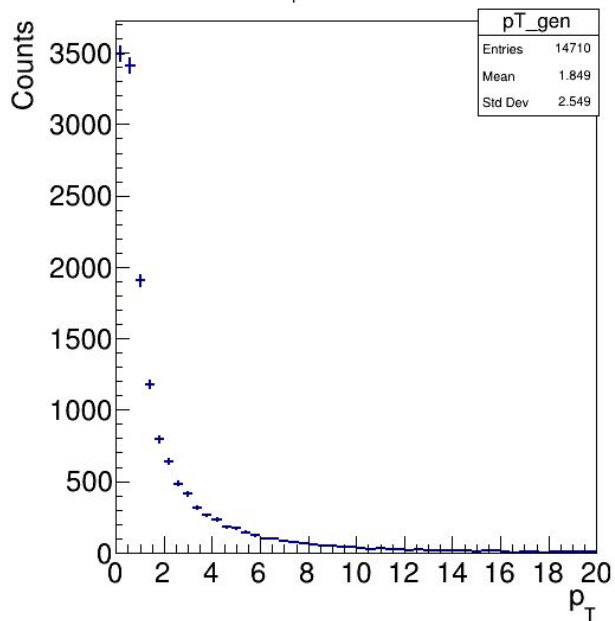
Data File

Path to data-file: `eictest/EPIC/RECO/24.03.1/epic_craterlake/DIS/NC/18x275/minQ2=1000`

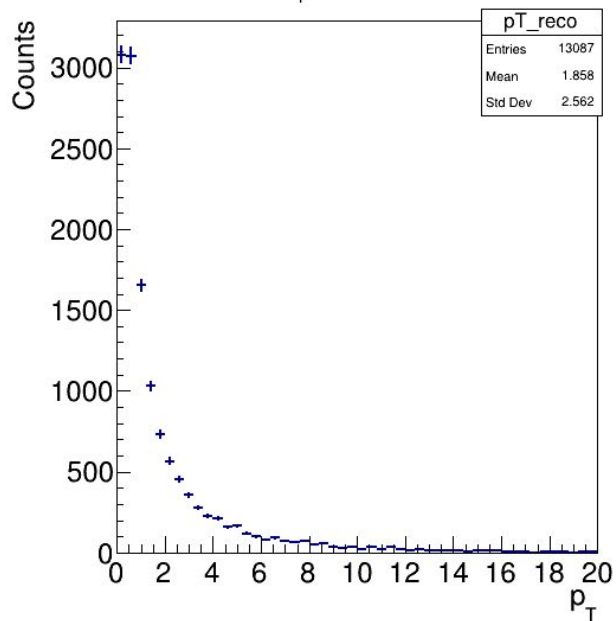
Data-file: `pythia8NCDIS_18x275_minQ2=1000_beamEffects_xAngle=-0.025_hiDiv_1.0000.eicrecon.tree.edm4eic.root`
`pythia8NCDIS_18x275_minQ2=1000_beamEffects_xAngle=-0.025_hiDiv_1.0001.eicrecon.tree.edm4eic.root`
`pythia8NCDIS_18x275_minQ2=1000_beamEffects_xAngle=-0.025_hiDiv_1.0002.eicrecon.tree.edm4eic.root`
`pythia8NCDIS_18x275_minQ2=1000_beamEffects_xAngle=-0.025_hiDiv_1.0003.eicrecon.tree.edm4eic.root`

Efficiency of charged hadrons with p_T

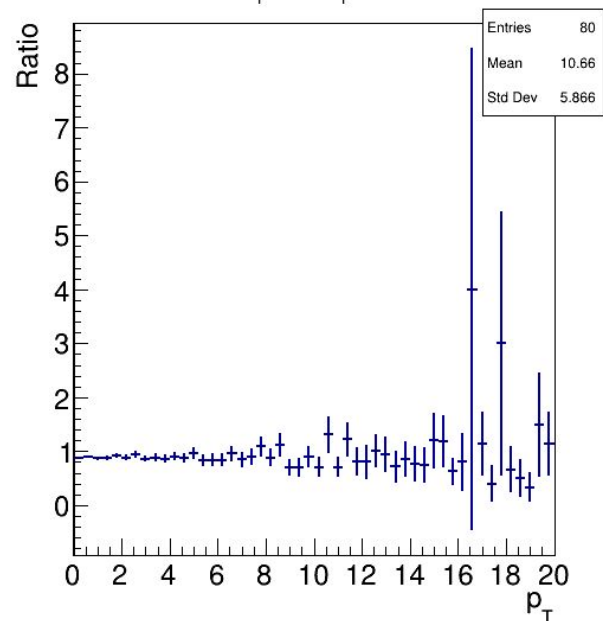
gen p_T , $-3 < \eta < 3$



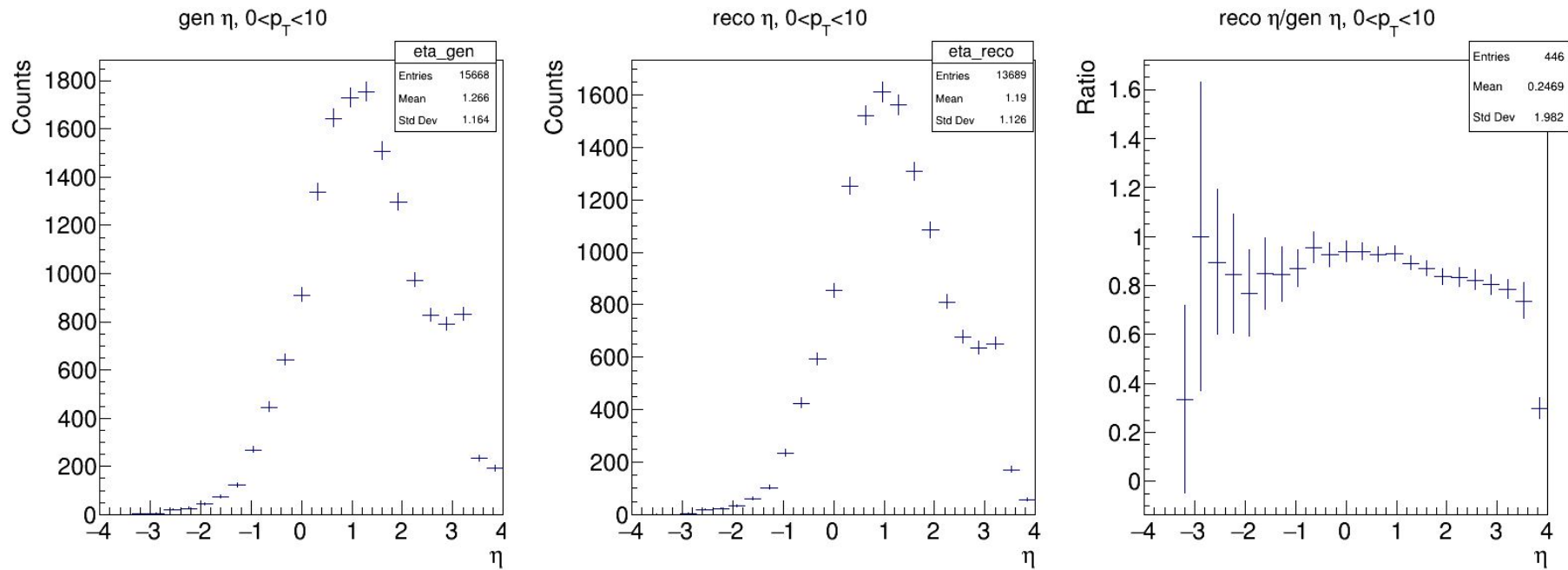
reco p_T , $-3 < \eta < 3$



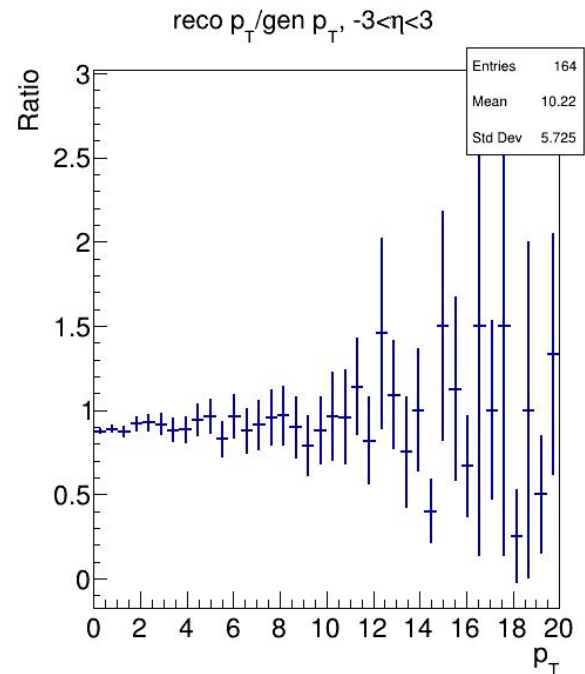
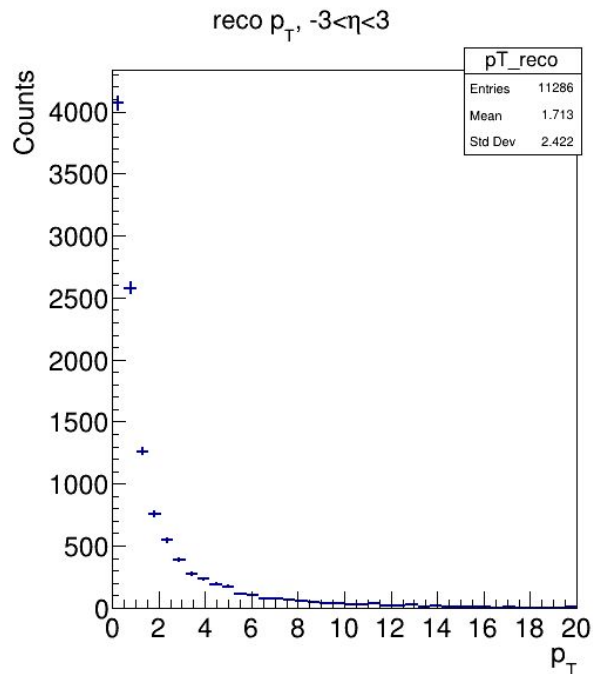
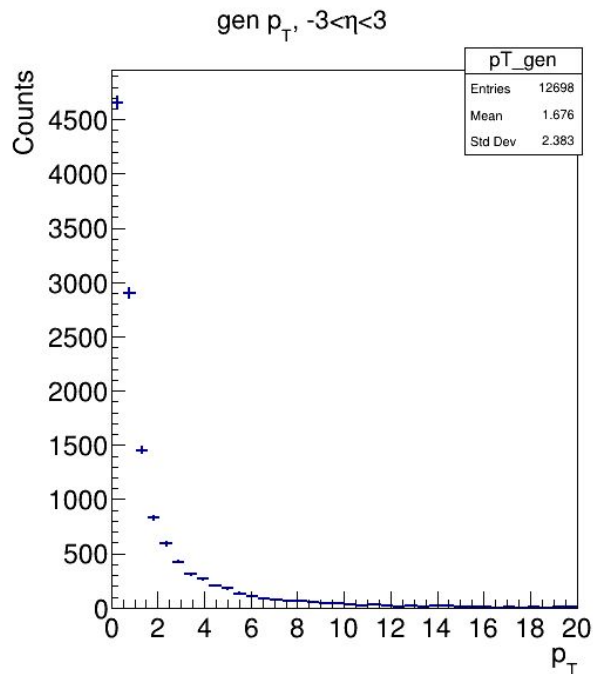
reco p_T /gen p_T , $-3 < \eta < 3$



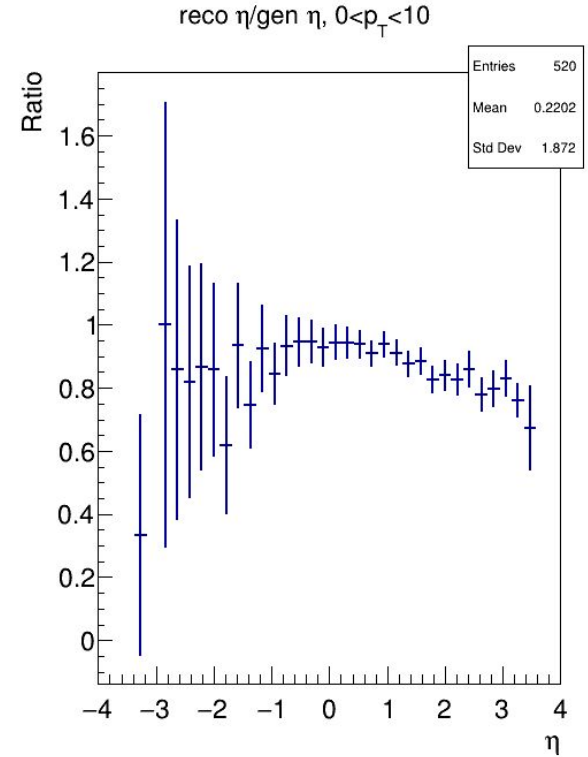
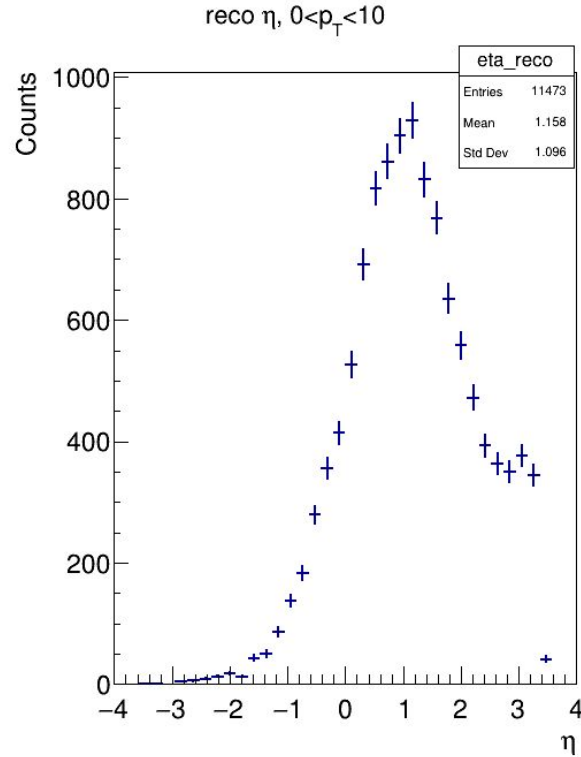
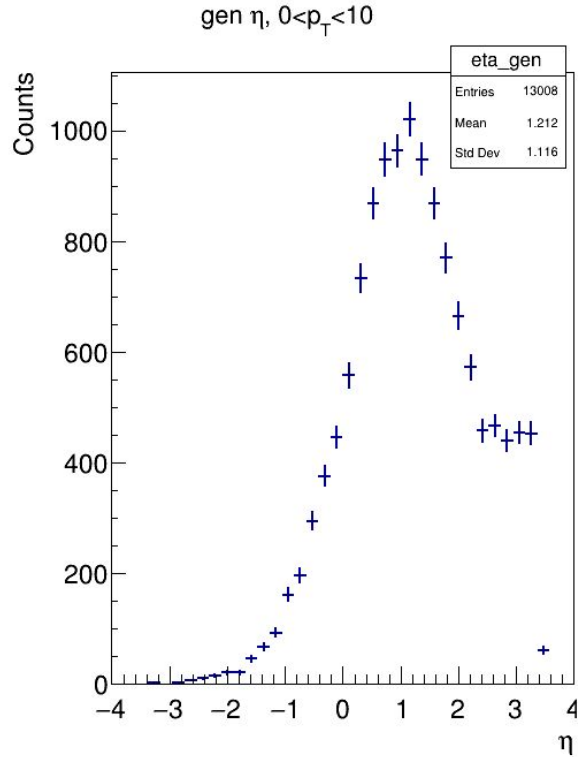
Efficiency of charged hadrons with η



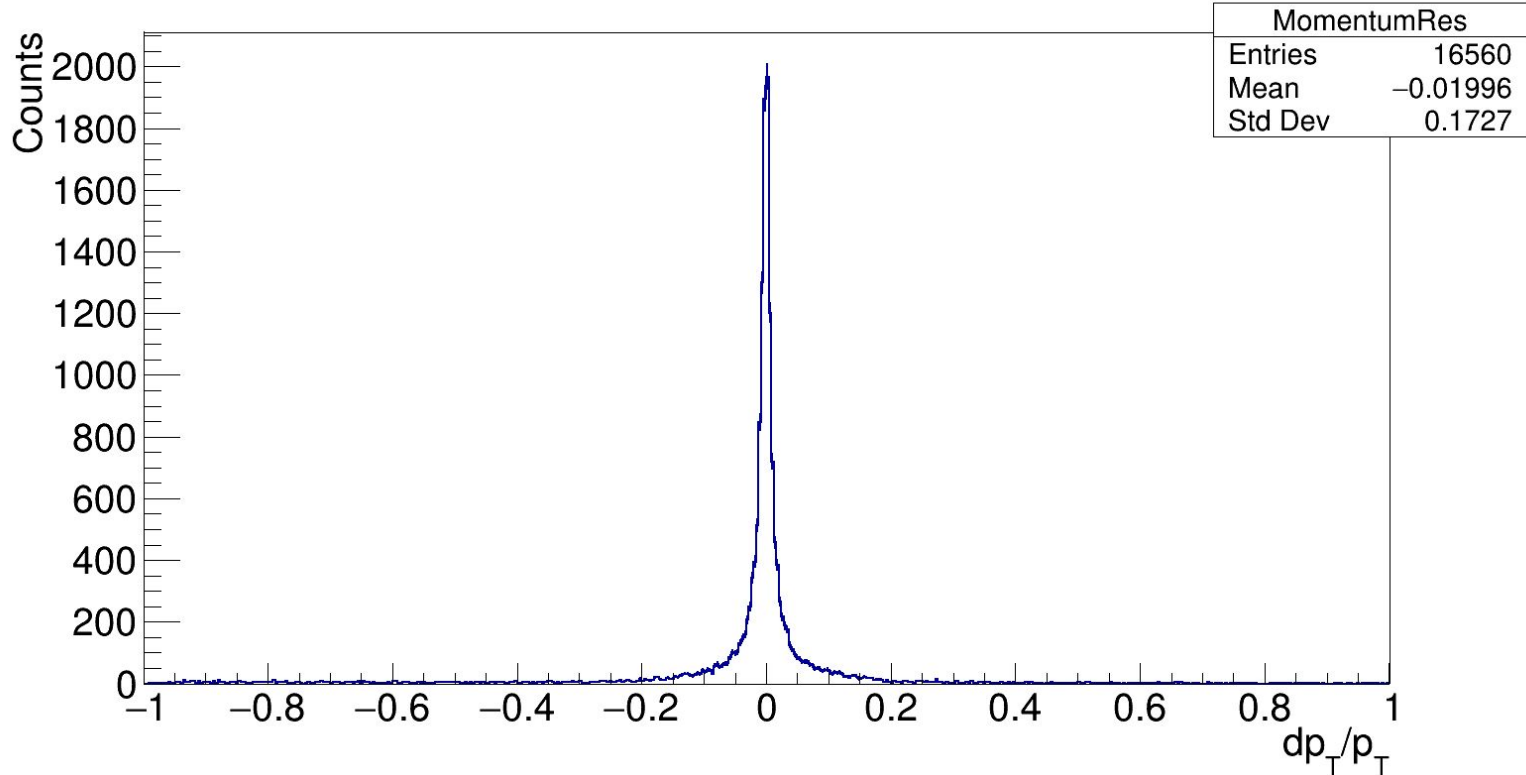
Efficiency of charged pions with p_T



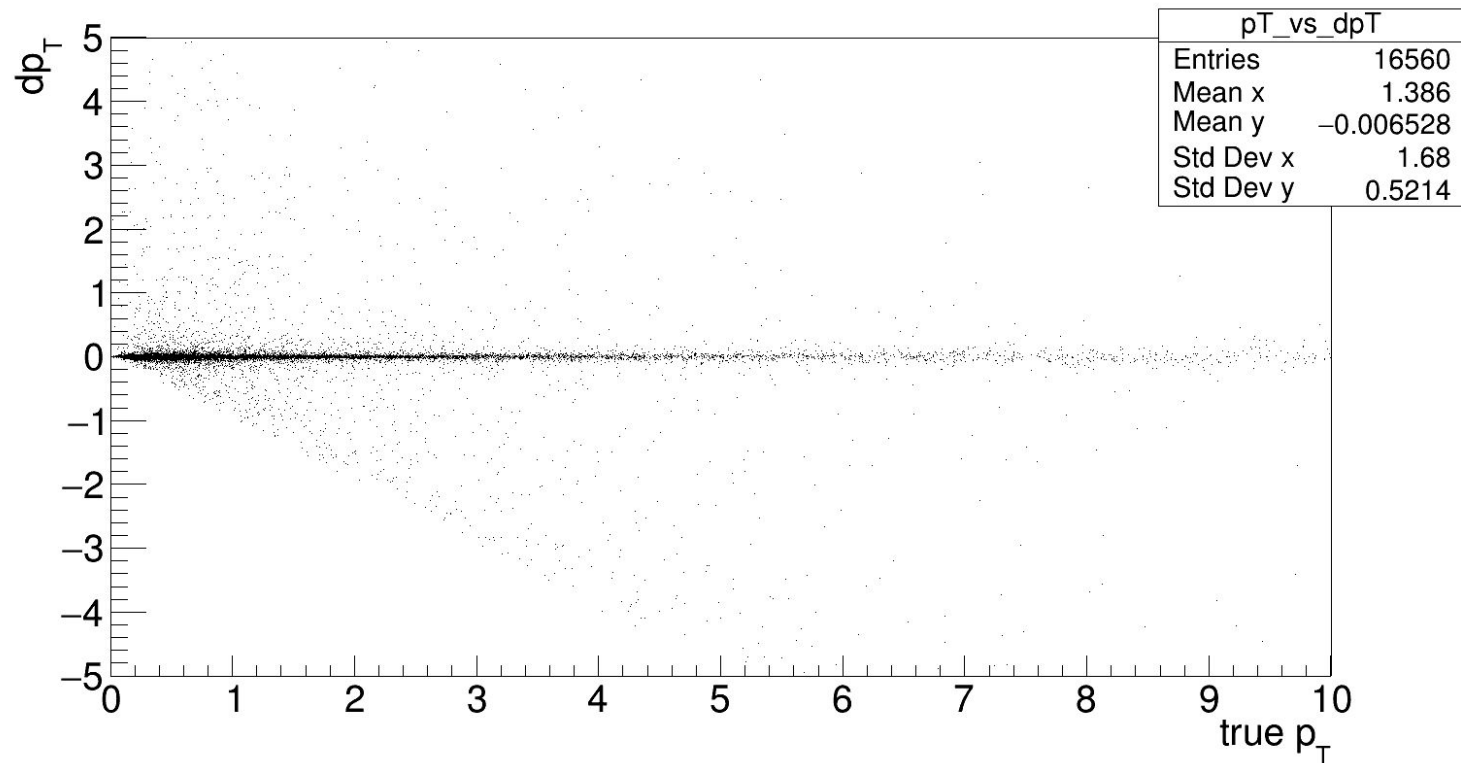
Efficiency of charged pions with η



Momentum Resolution (all charged hadrons)



dp_T vs p_T



THANK YOU