

Momentum Resolution

Rohit Kaundal

Ankhi Roy

**Indian Institute of Technology Indore
India**

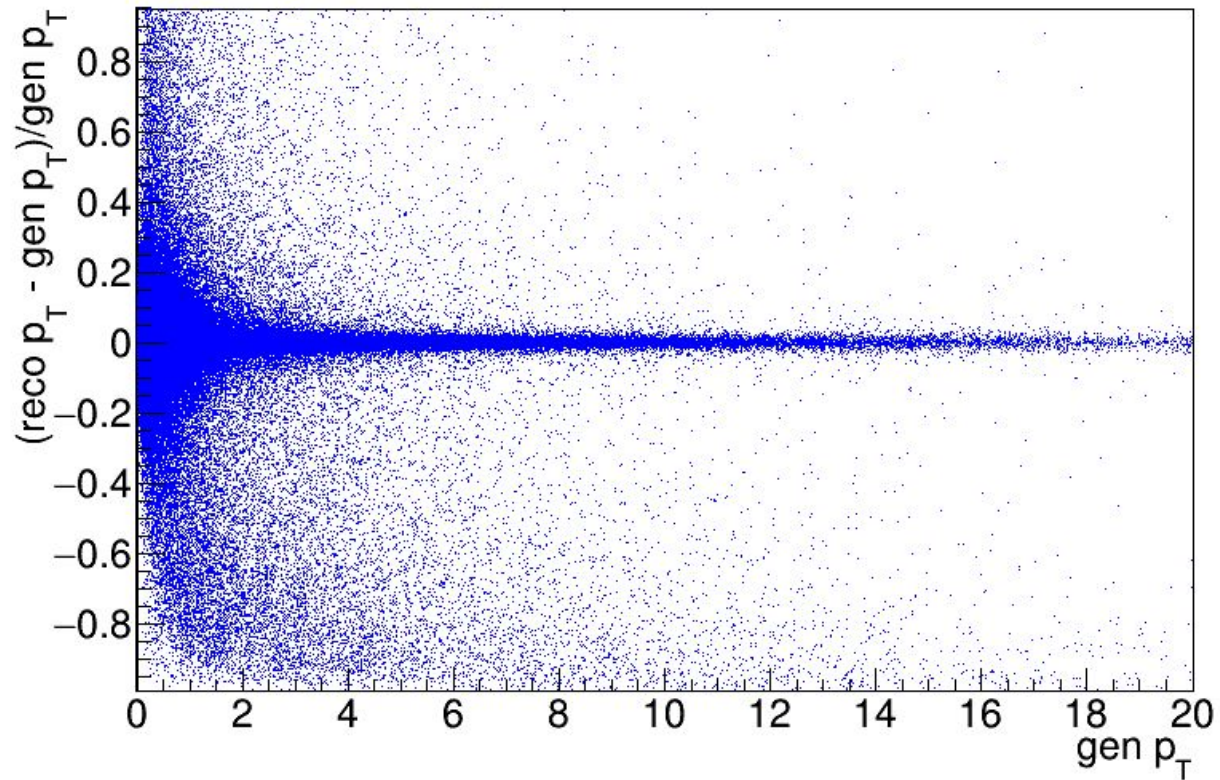
29 May 2024

Path to data-file: **eictest/EPIC/RECO/24.04.0/epic_craterlake/DIS/NC/18x275/minQ2=1000**

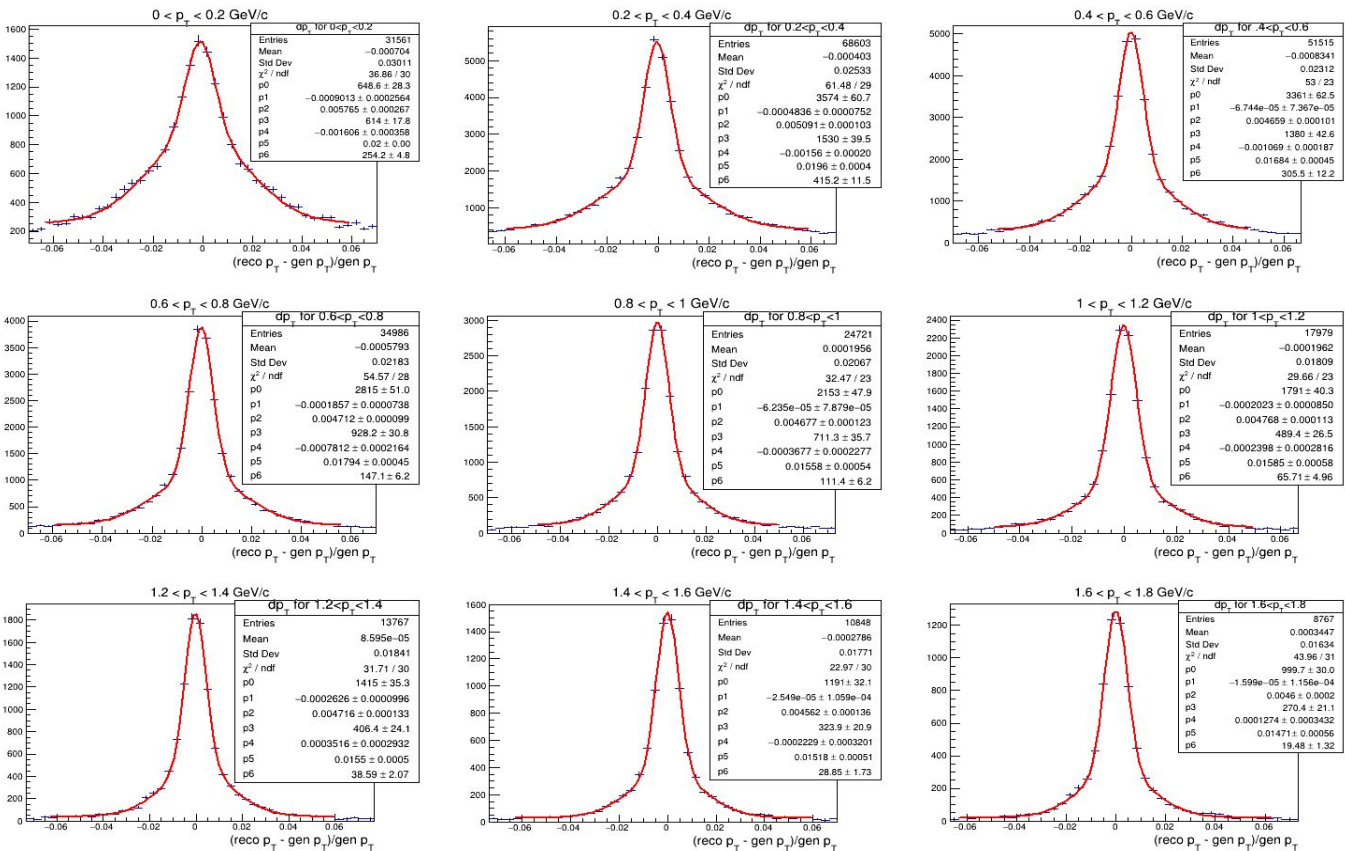
Data-files:

**pythia8NCDIS_18x275_minQ2=1000_beamEffects_xAngle=-0.025_hiDiv_1.0000(-1.0150).eicrecon.tree.edm4eic.
root**

Momentum resolution for charged Pions

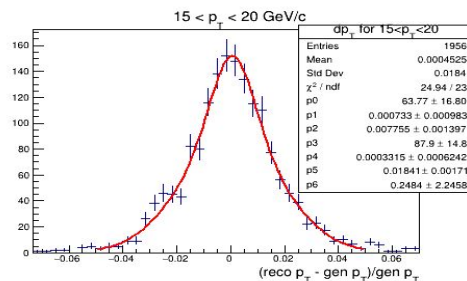
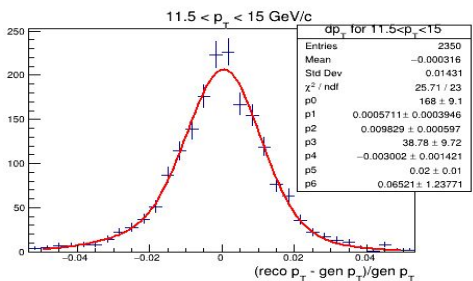
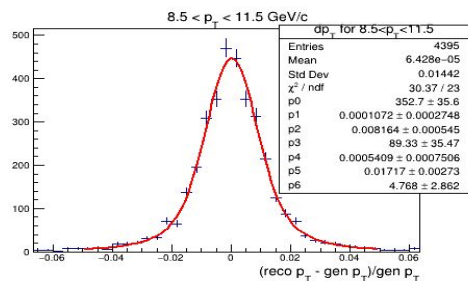
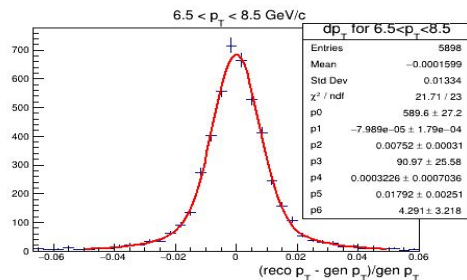
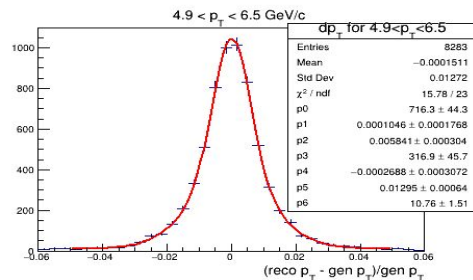
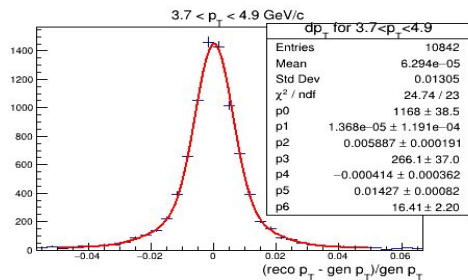
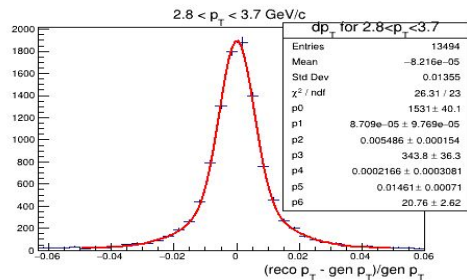
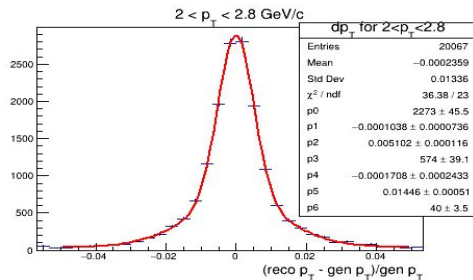
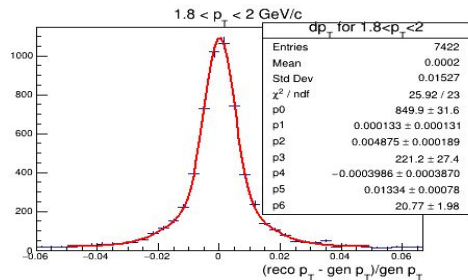


Momentum resolution for charged Pions

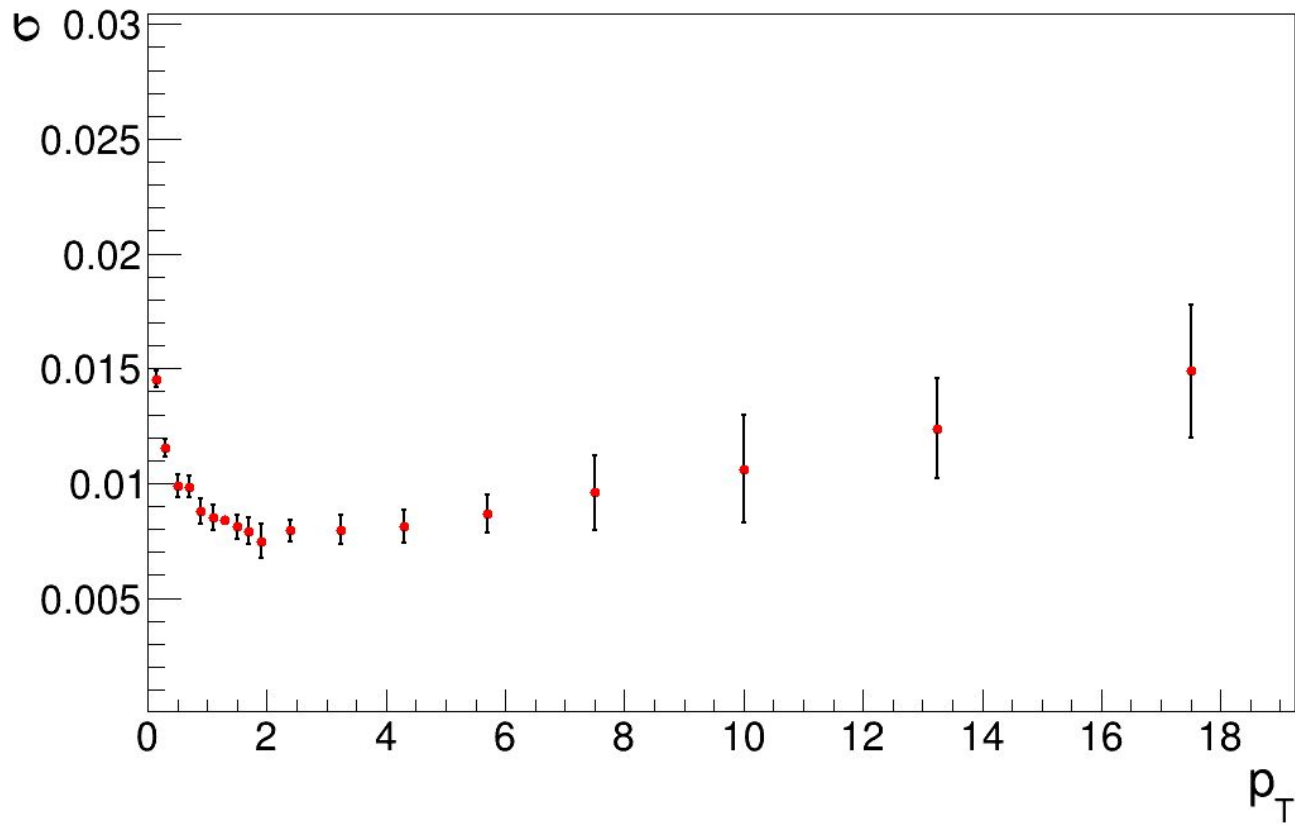


Fitted with double Gaussian function

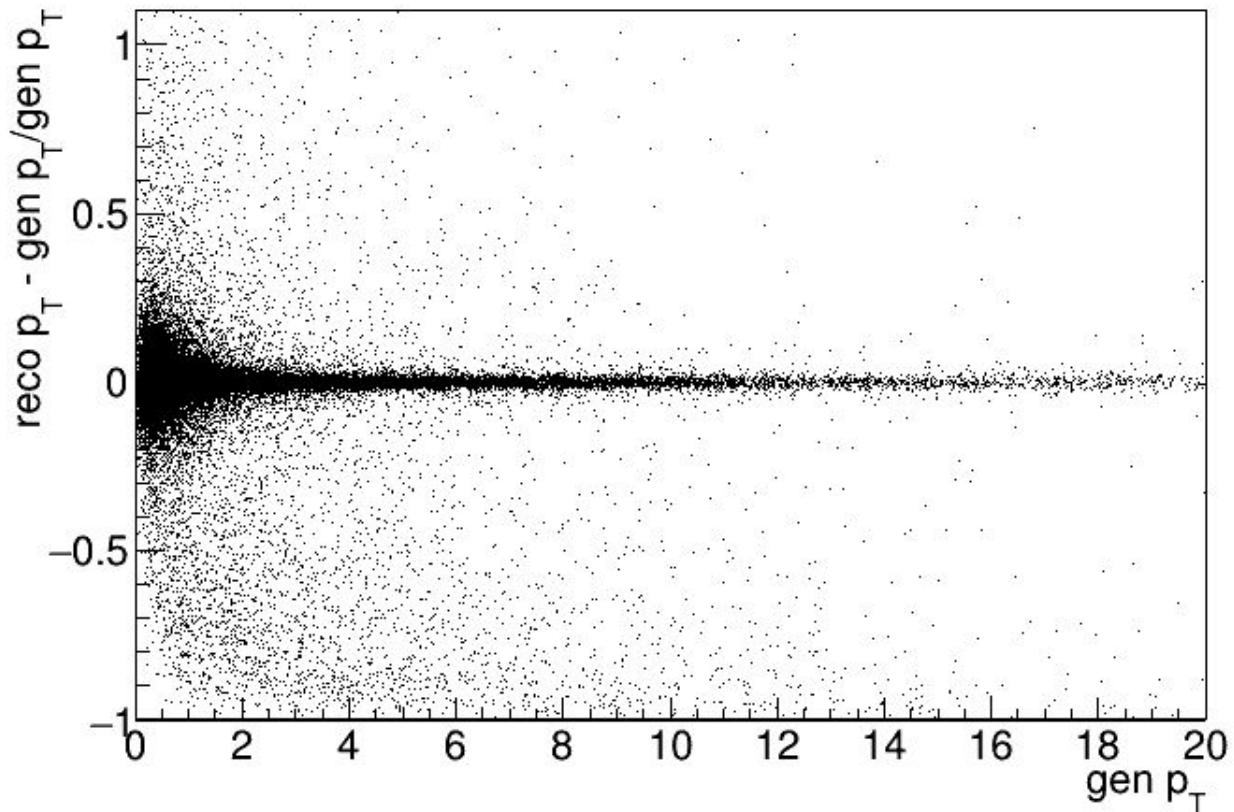
Momentum resolution for charged Pions



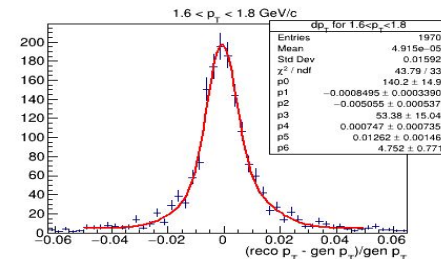
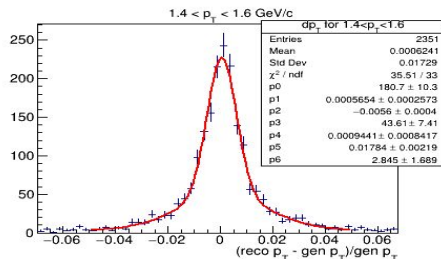
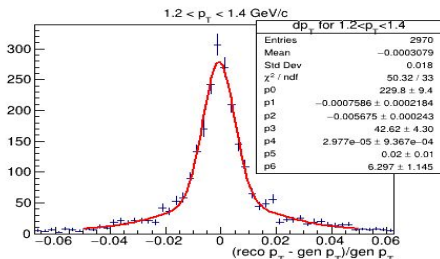
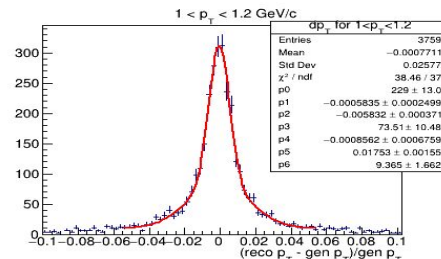
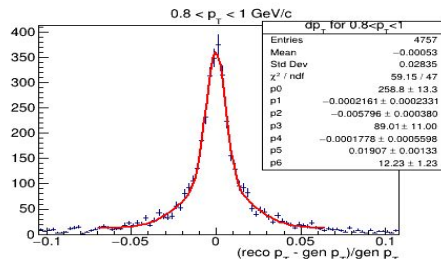
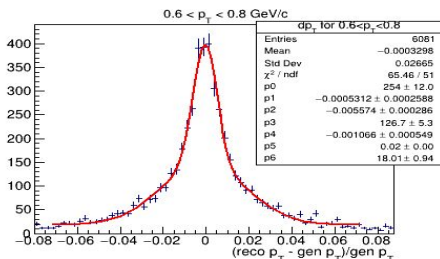
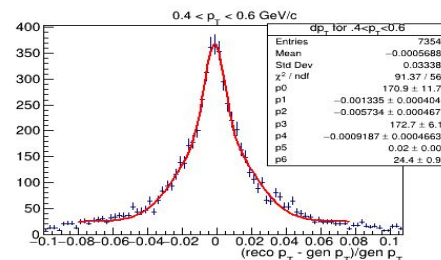
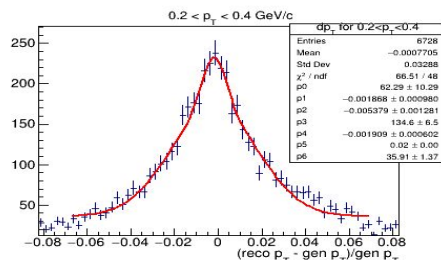
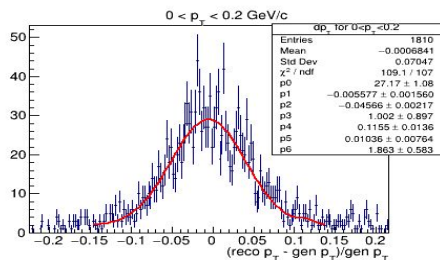
Sigma vs pT



Momentum resolution for charged Kaons

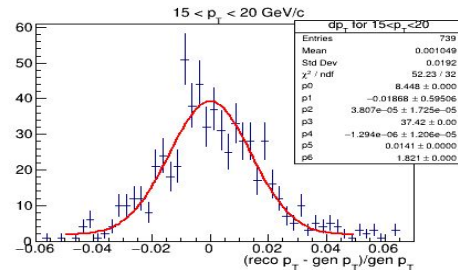
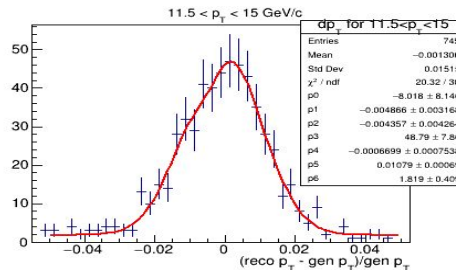
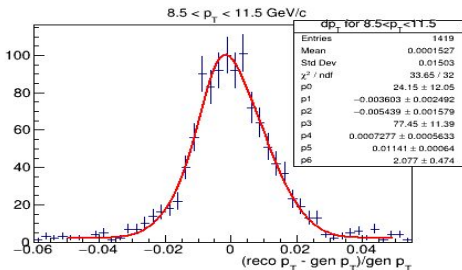
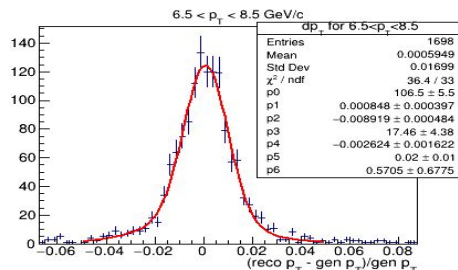
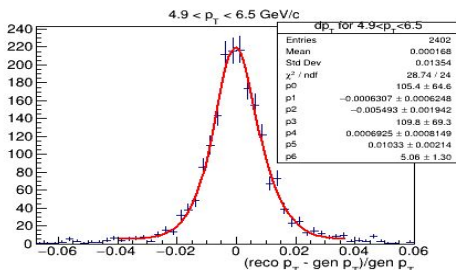
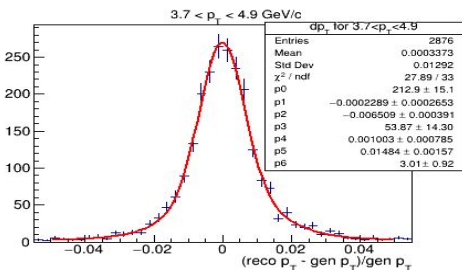
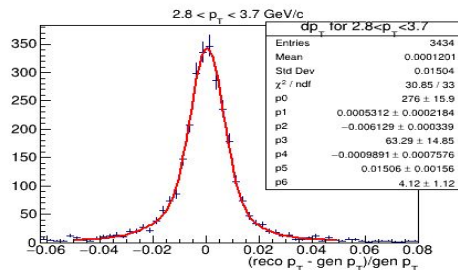
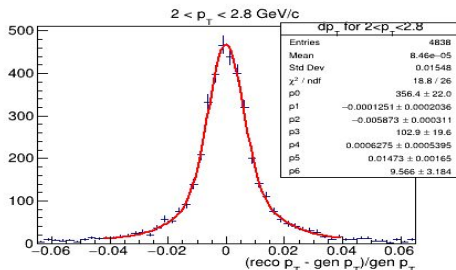
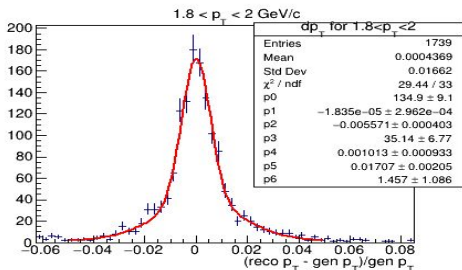


Momentum resolution for charged Kaons

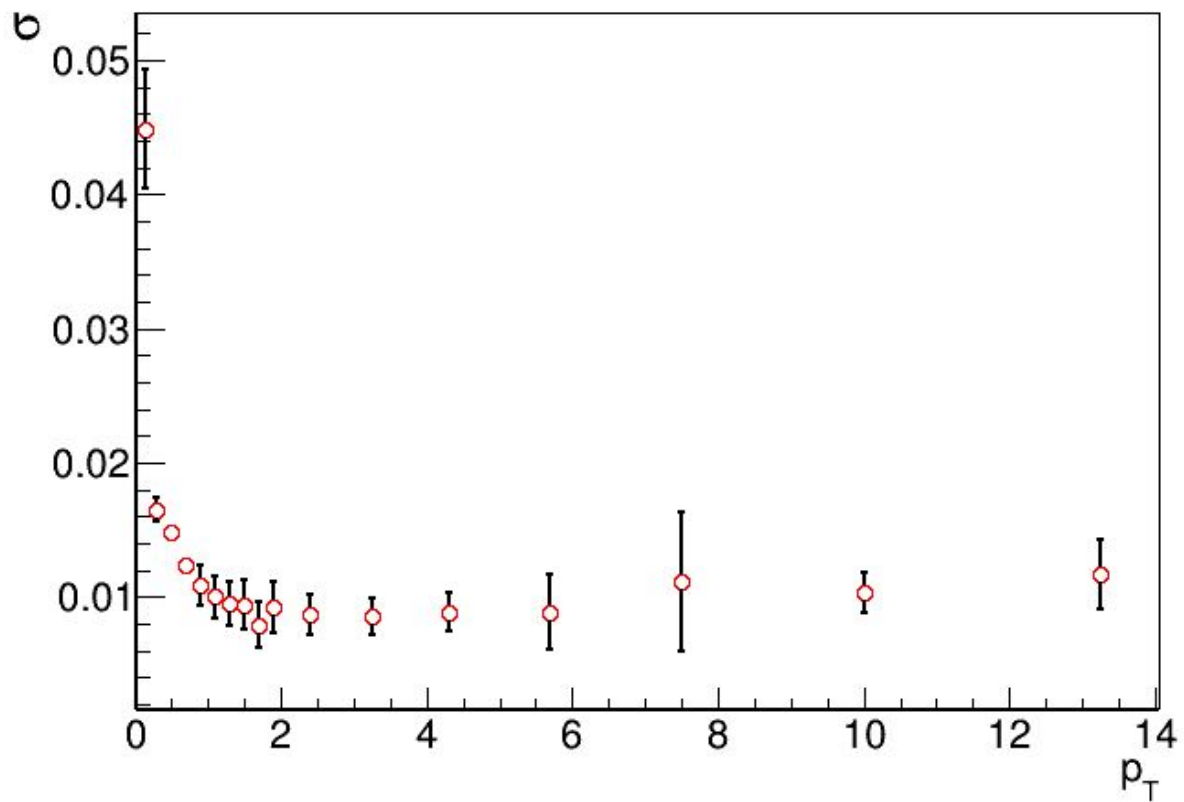


Fitted with double Gaussian function

Momentum resolution for charged Kaons



Sigma vs pT



THANK YOU