

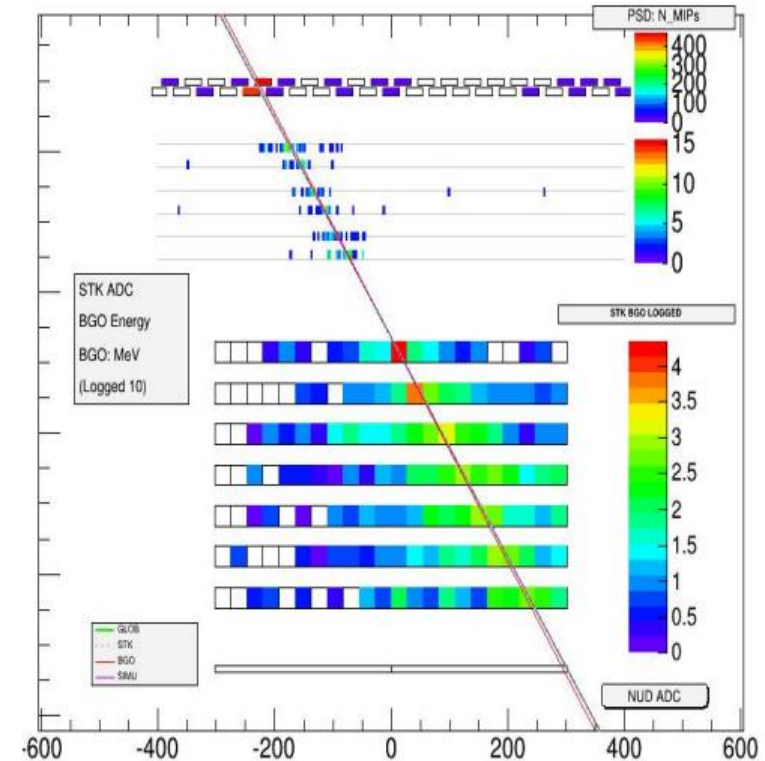
Heavy Nuclei beyond Fe in Cosmic Ray

孙浩然

2024/11/20

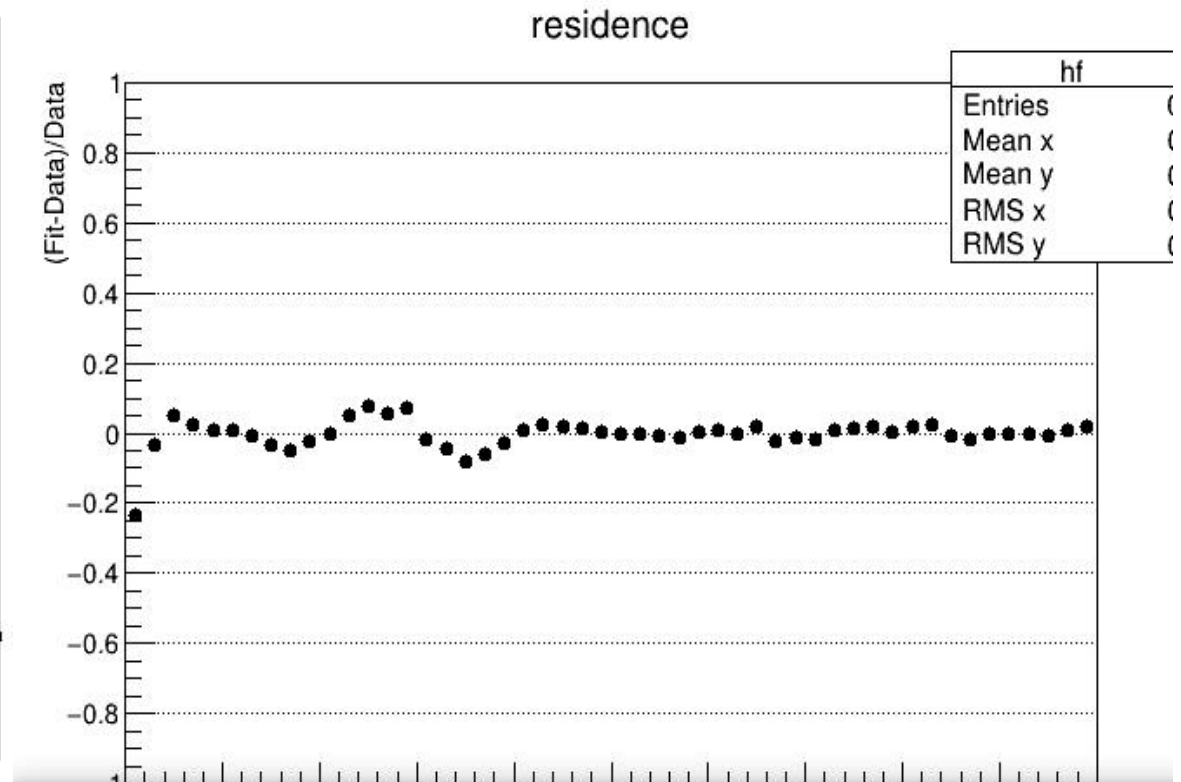
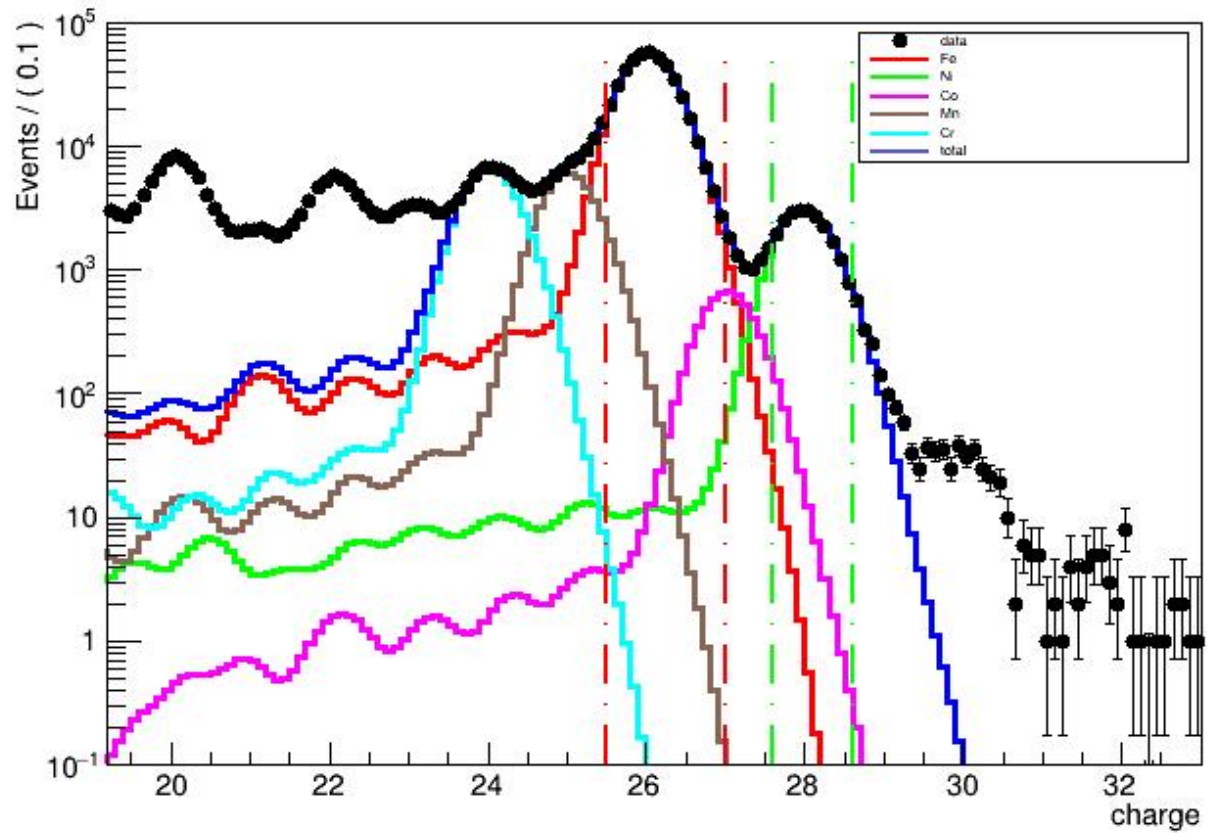
Selection

- Data Cut:
 - SAA exclude
- Trigger Cut: G3
- Fiducial Cut:
 - PSD top && BGO top && front 14 layers
 - Maximum BGO crystals in the first 14 layers not at edge
- Track Cut: ML Track
 - ML STK Track
- BGO Cut:
 - Total Energy >100GeV
- Charge Reconstruction
 - MultiLayer Charge (RMS Threshold<=1)
 - Max Psd Strip
 - PSD Hit Bar >= 3

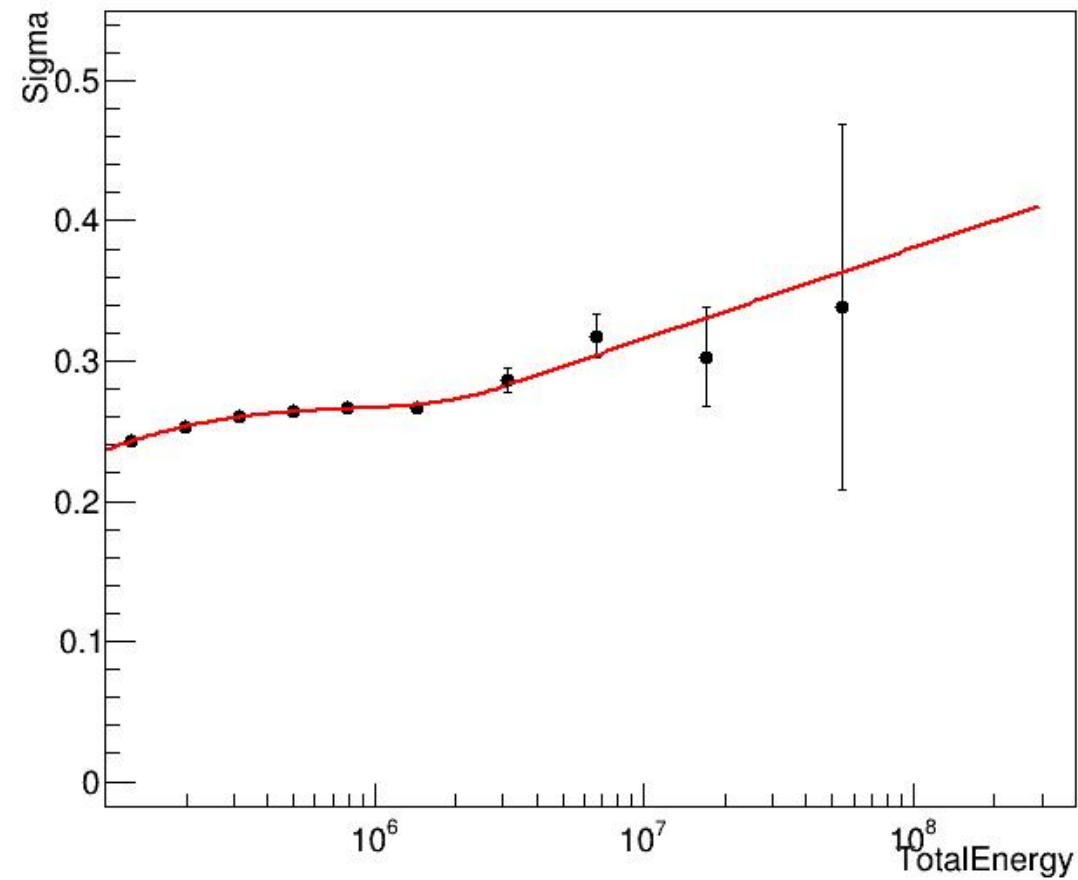


Smear

A RooPlot of "charge"

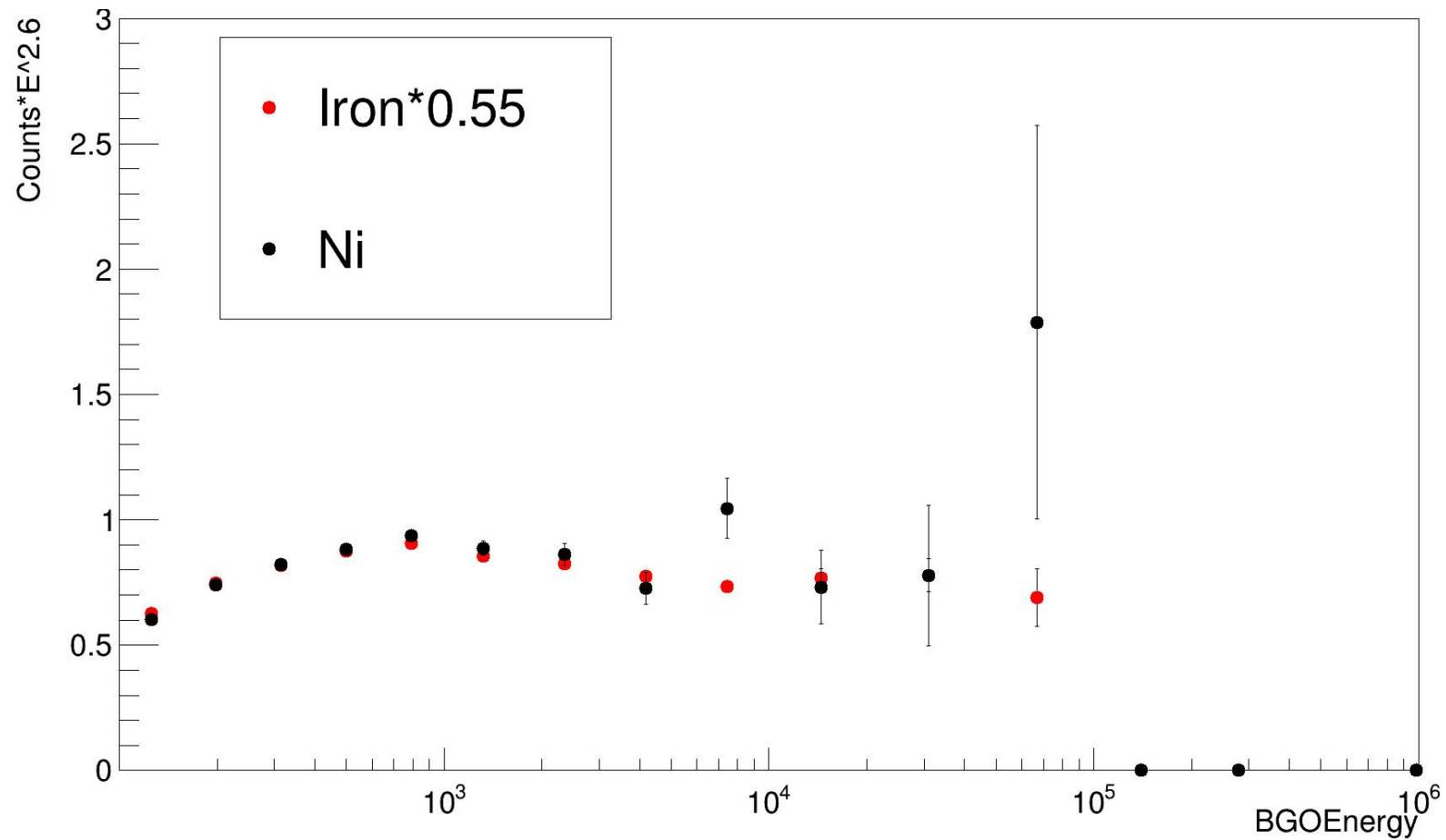


Sigma Convolution

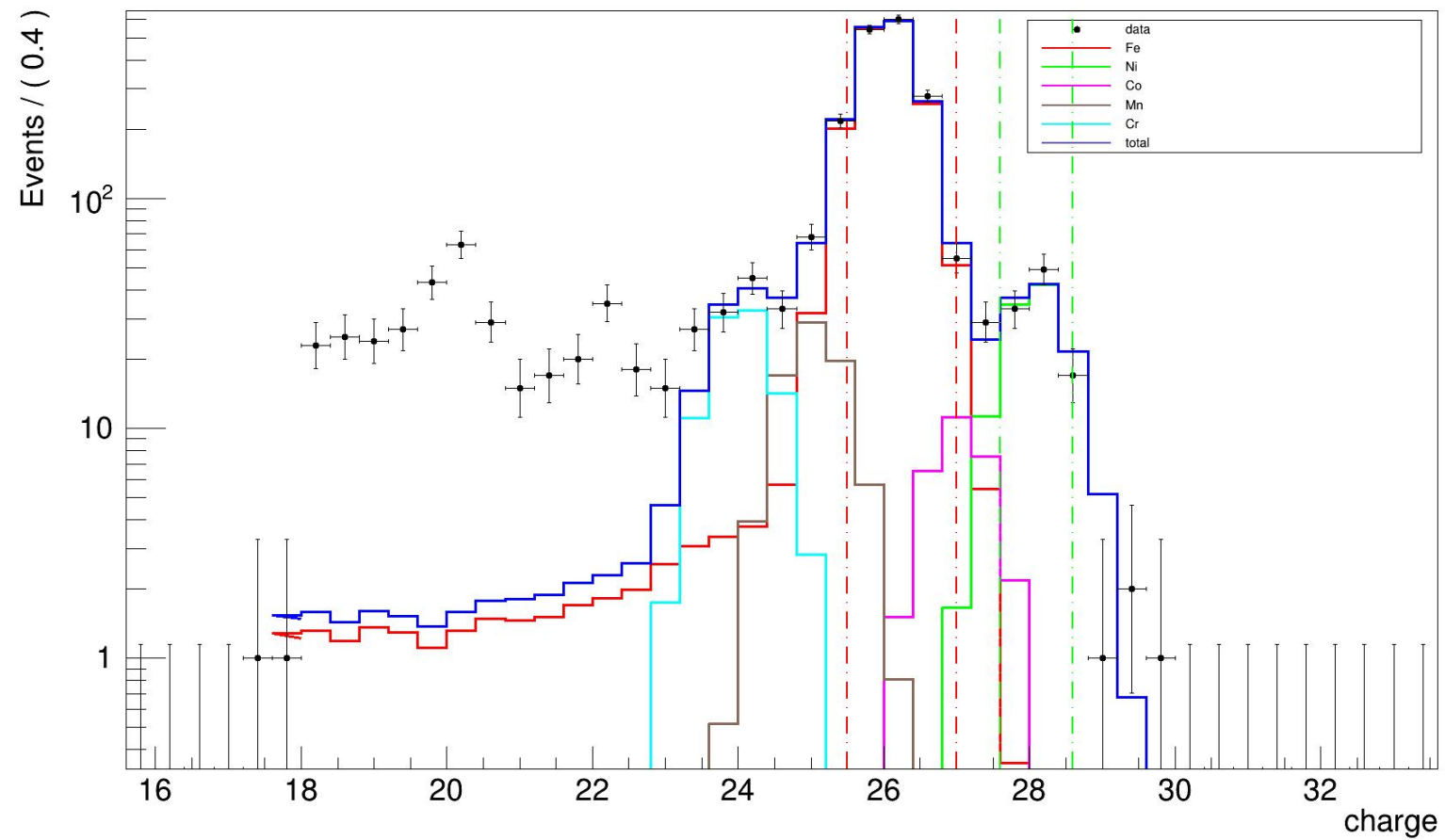


Counts in DepEnergy

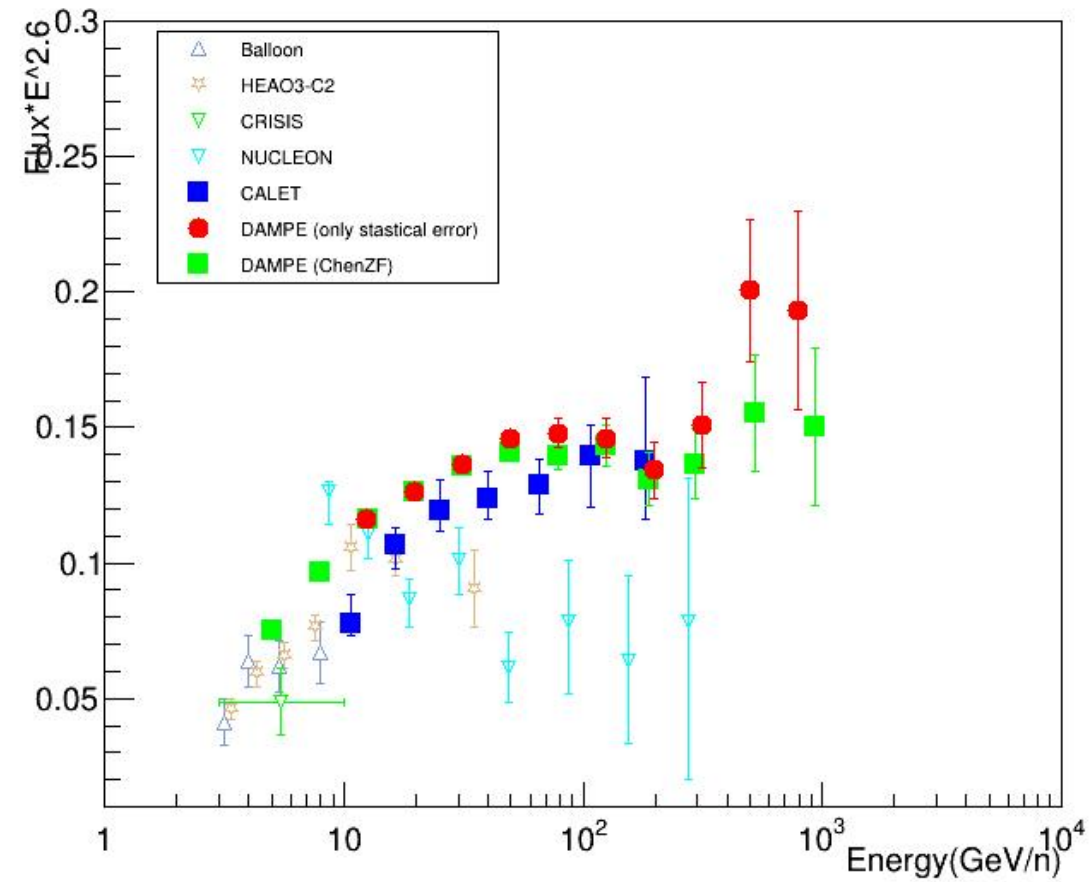
charge region: 27.5-28.8



4.6T-10T



EnergySpectrum



Ni/Fe Ratio

