



中国科学技术大学
University of Science and Technology of China

红专并进
理实交融

Iron Check

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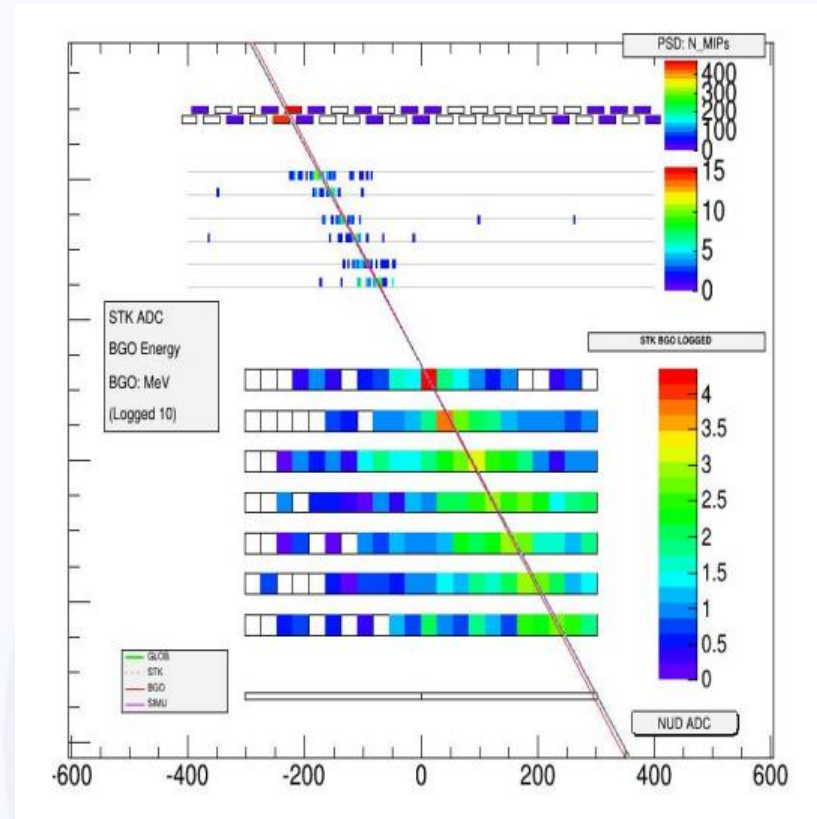
(on behalf of the DAMPE USTC group)

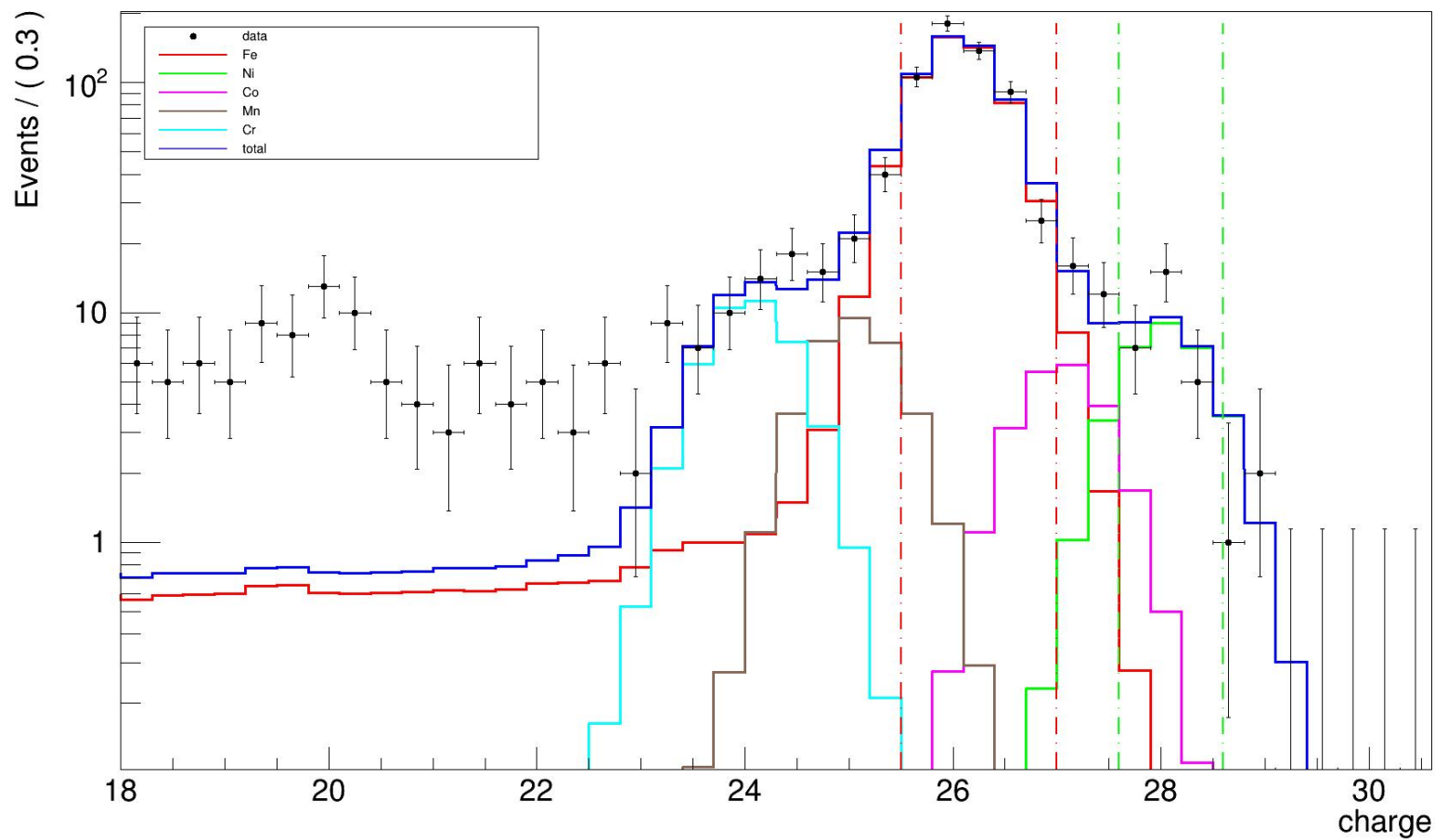
State Key Laboratory of Particle Detection and Electronics,
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06/01/2025

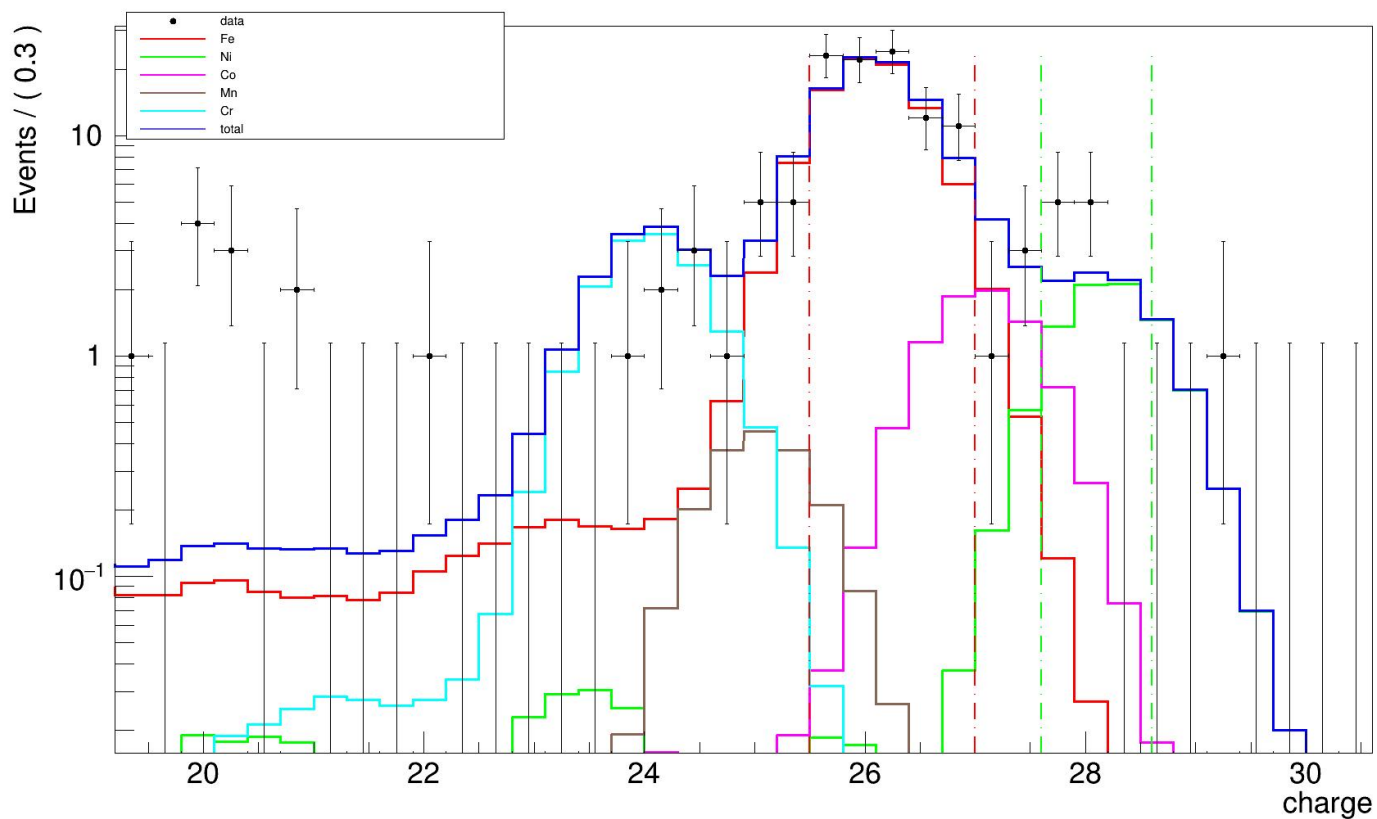
Event Selection

- 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
 - **Average Distance $\leq 25\text{mm}$: L0~L3**
- BGO Cut:
 - Total Energy $> 100\text{GeV}$
 - **MaxEnergy Ratio ≤ 0.35**
- Charge Reconstruction
 - MultiLayer Charge (RMS Threshold ≤ 1)
 - Max Psd Strip (adjacent permitted)

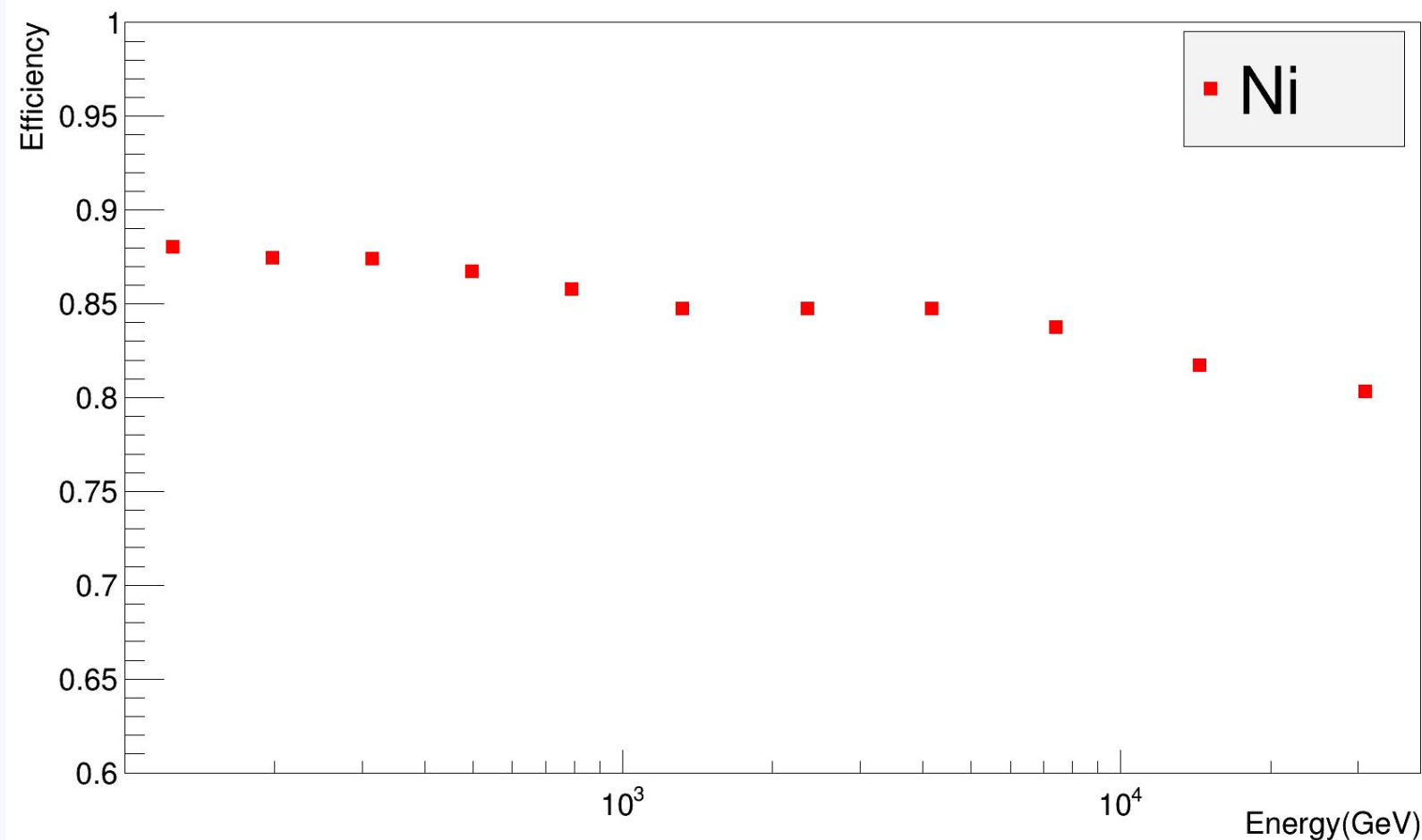




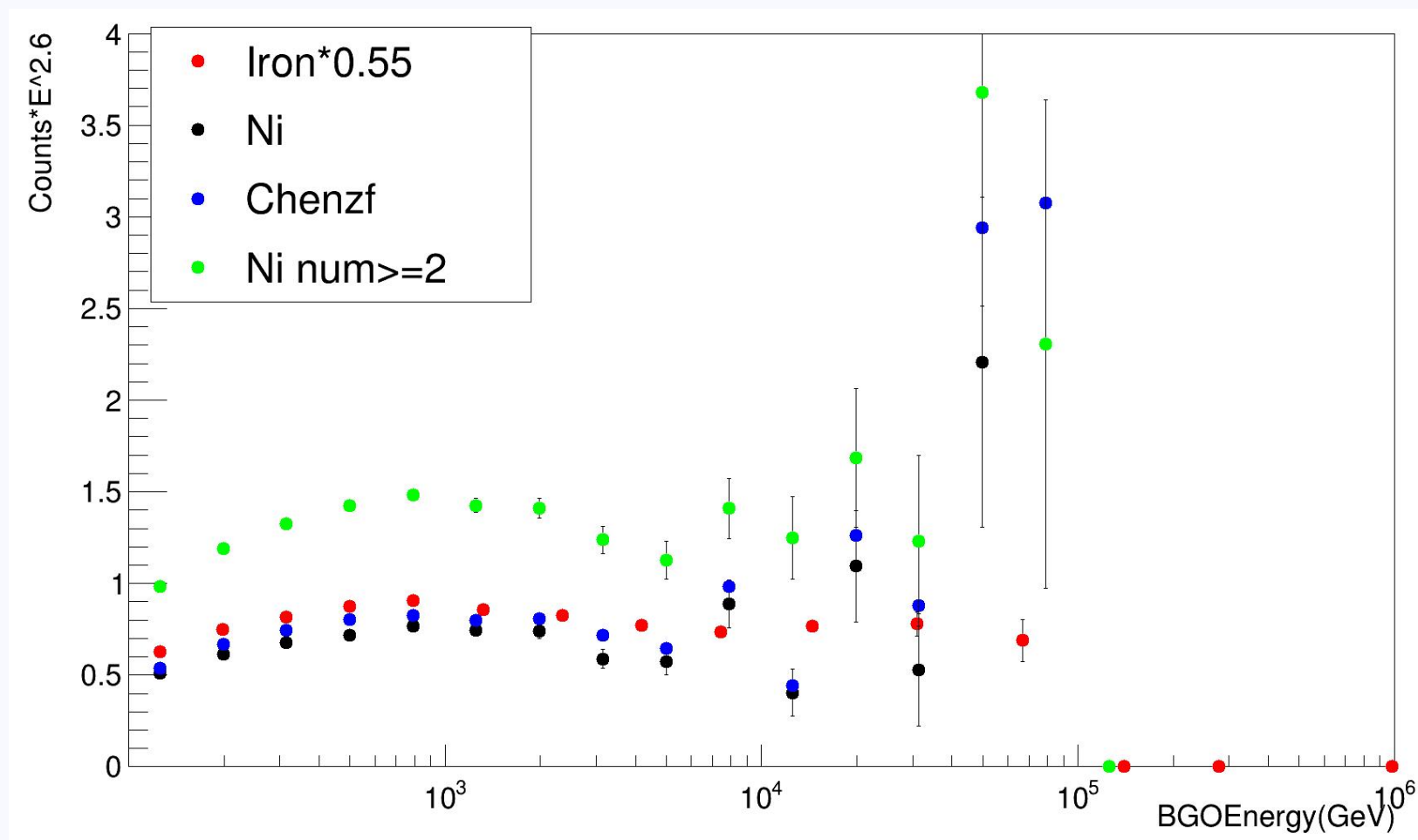
A RooPlot of "charge"

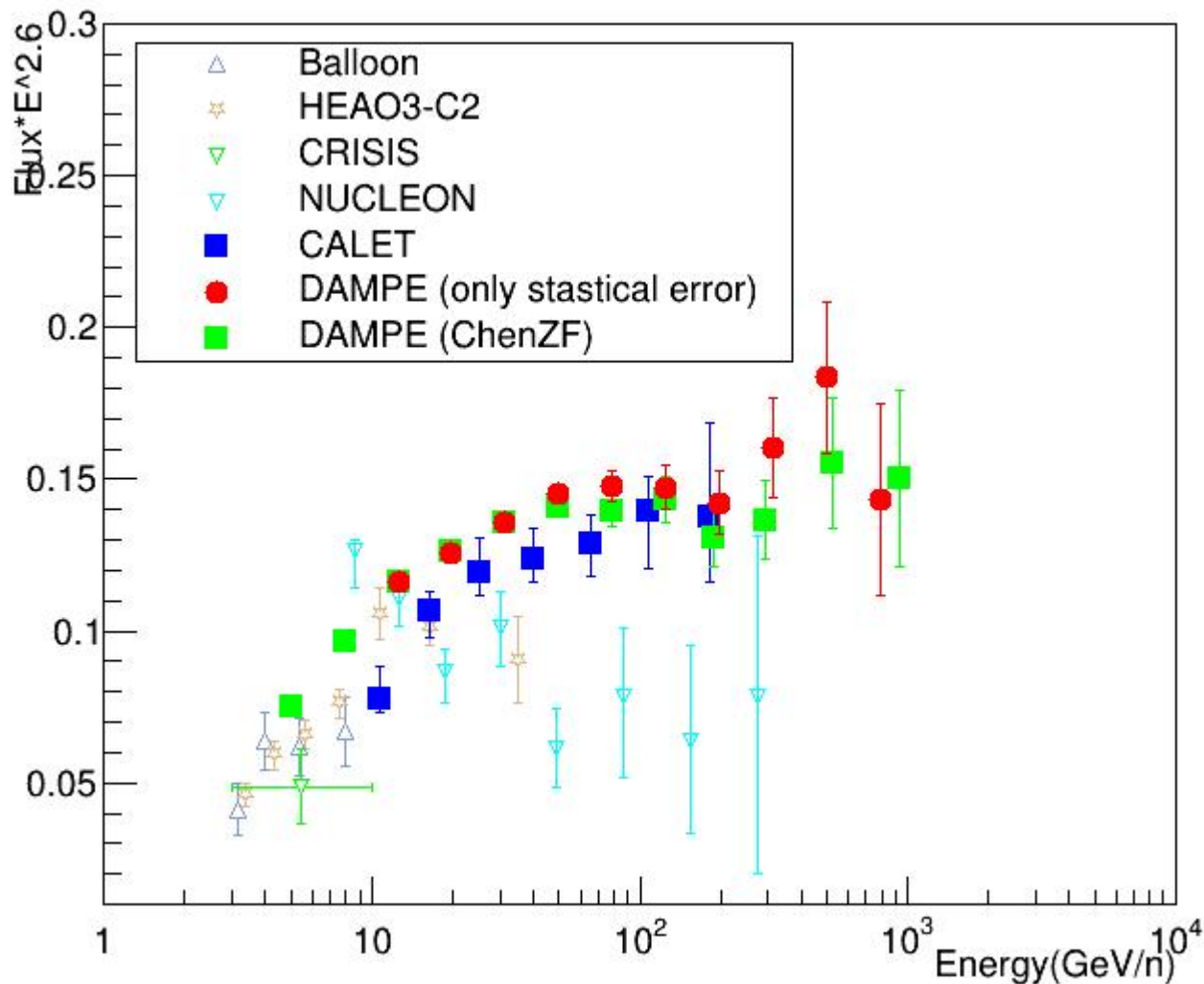


Ni Spectrum

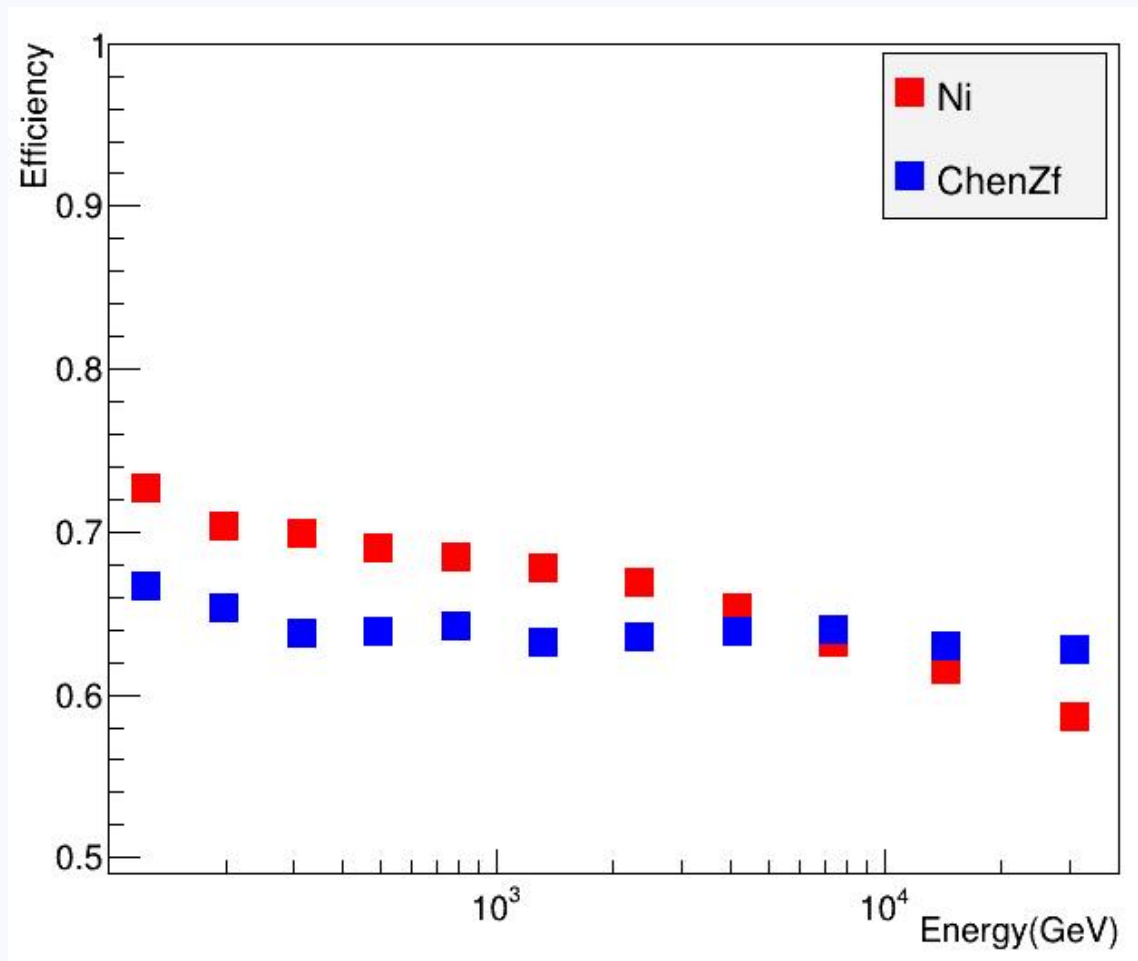


Counts Spectrum

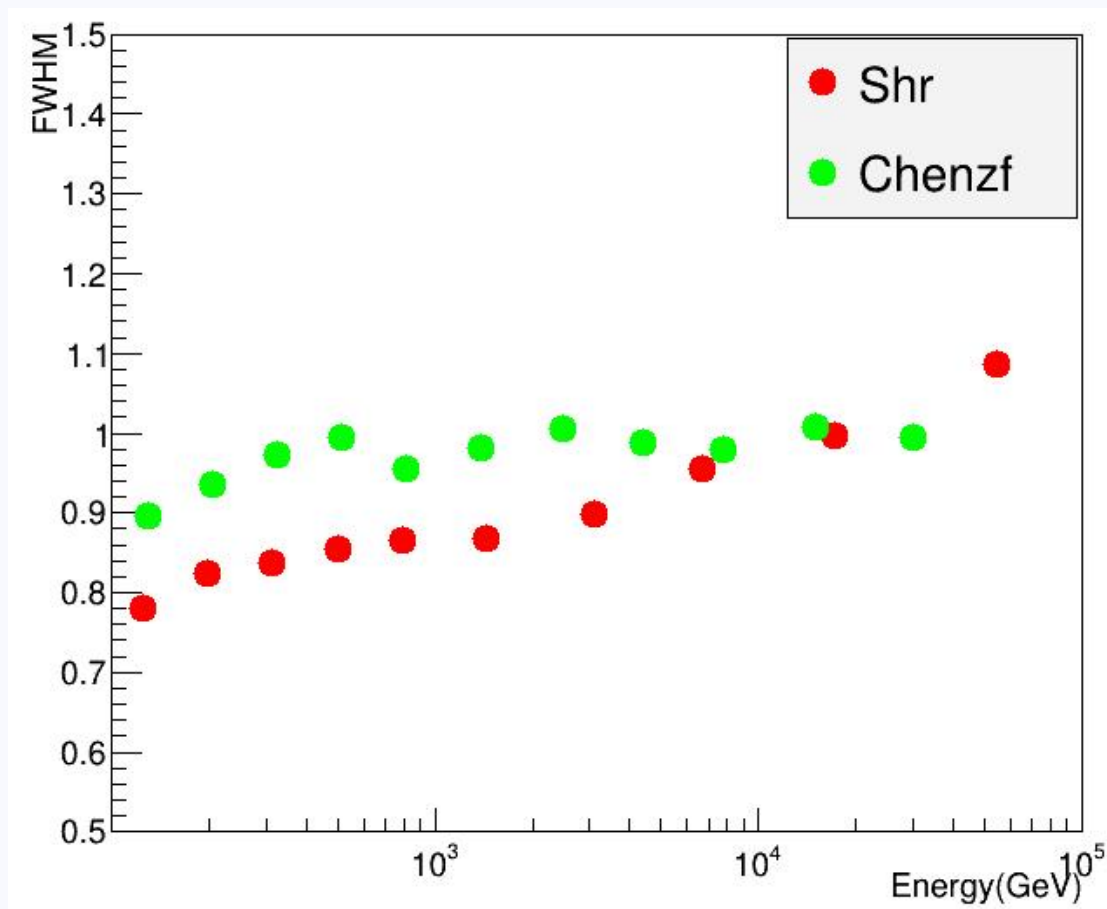




Charge Region 27.6-28.4



FWHM





THANK YOU!