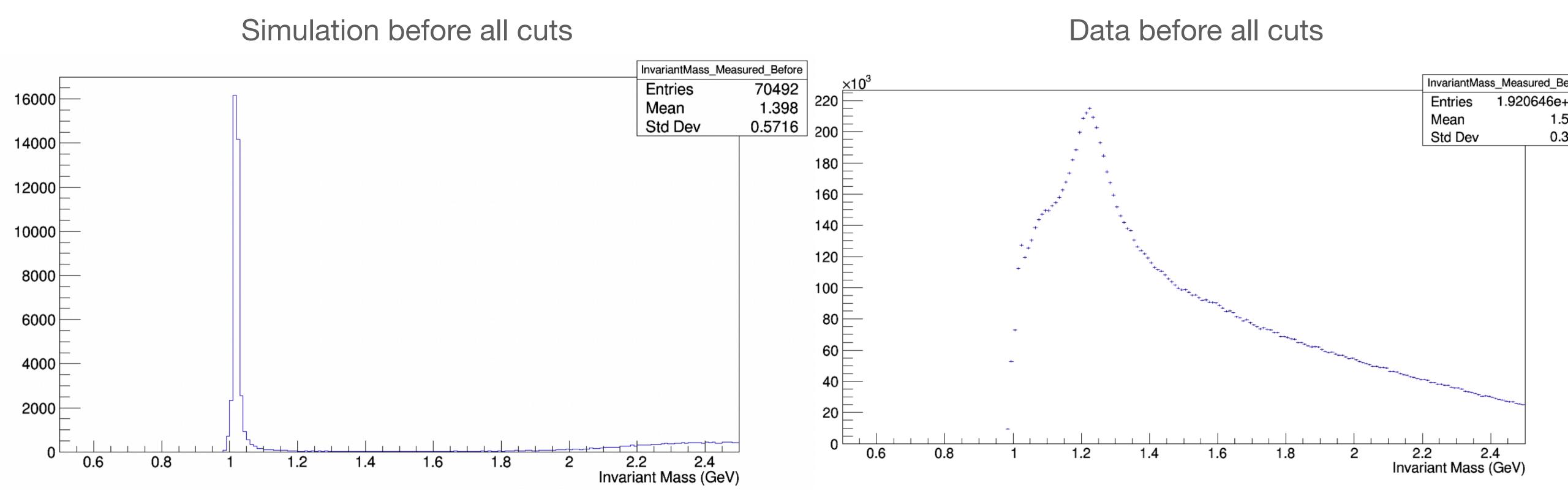
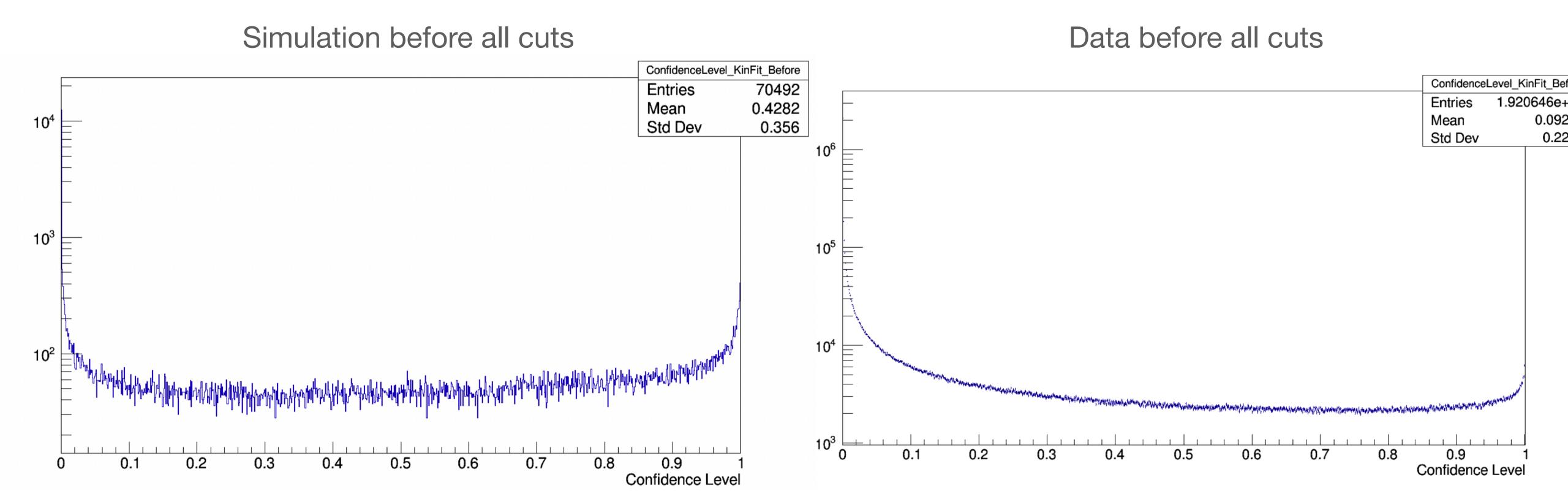
Simulation setup

- Generator: GCF of deuteron, courtesy of Jackson Pybus from Hen lab
- Tagged flux spectrum of Run 90220, courtesy of Sasha
- Sample of 100k events
- Run through GEANT4 version of GlueX model
- Reconstructed using the same code as real data
- |t| > 1 GeV, |u| > 1 GeV, can be adjusted later
- Random background not included, can be adjusted later

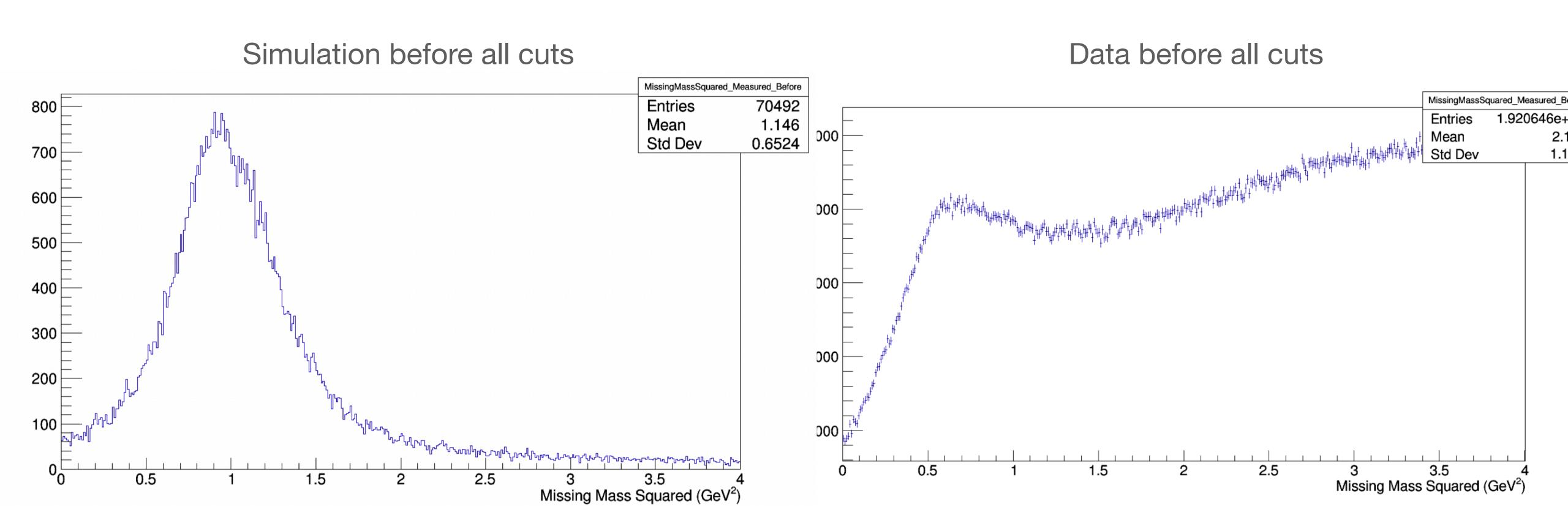
• Invariant mass of K^+K^- pair, using measured values



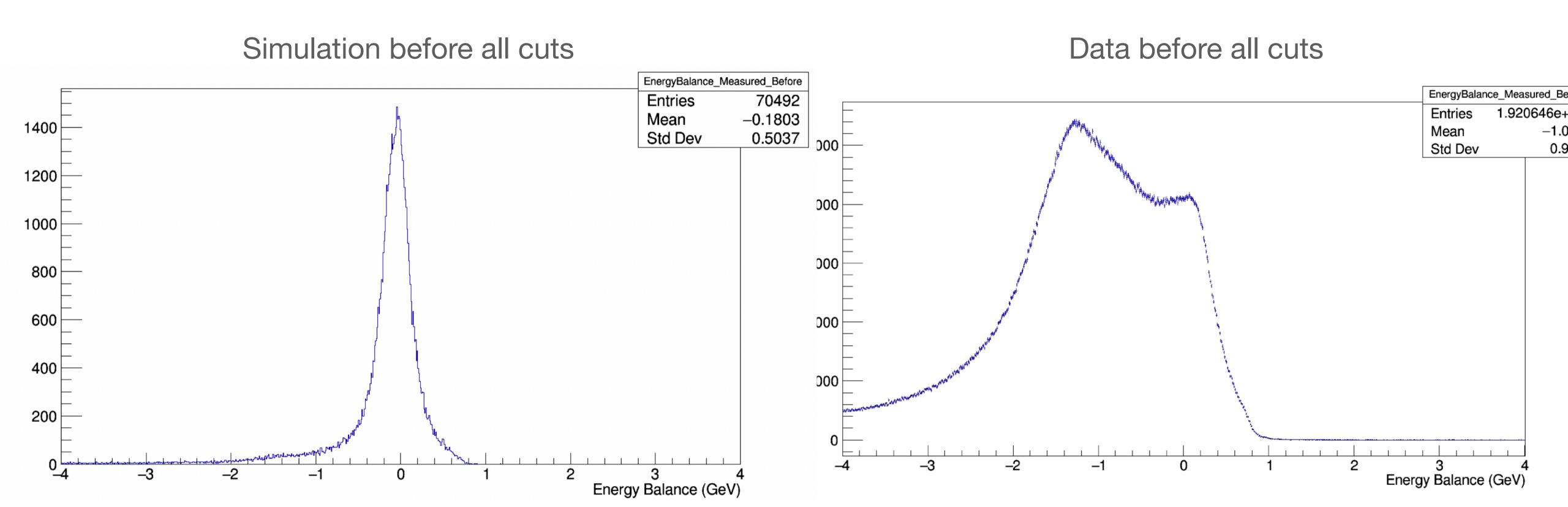
Confidence level



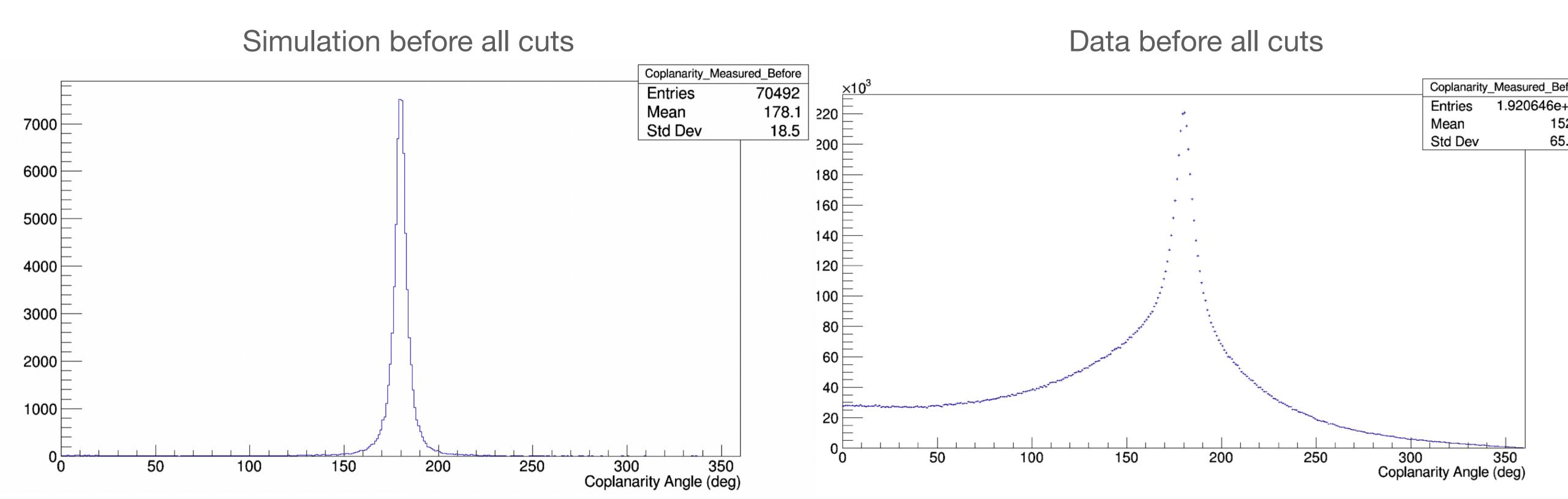
- Missing mass squared $(p_{\gamma}+p_d-p_{\phi}-p_p)^2$, using measured values
- For data, peak is shifted from neutron mass. FSI? Resolution issue?



- Energy balance $|E_\phi + E_p - E_\gamma - m_p|$, using measured values

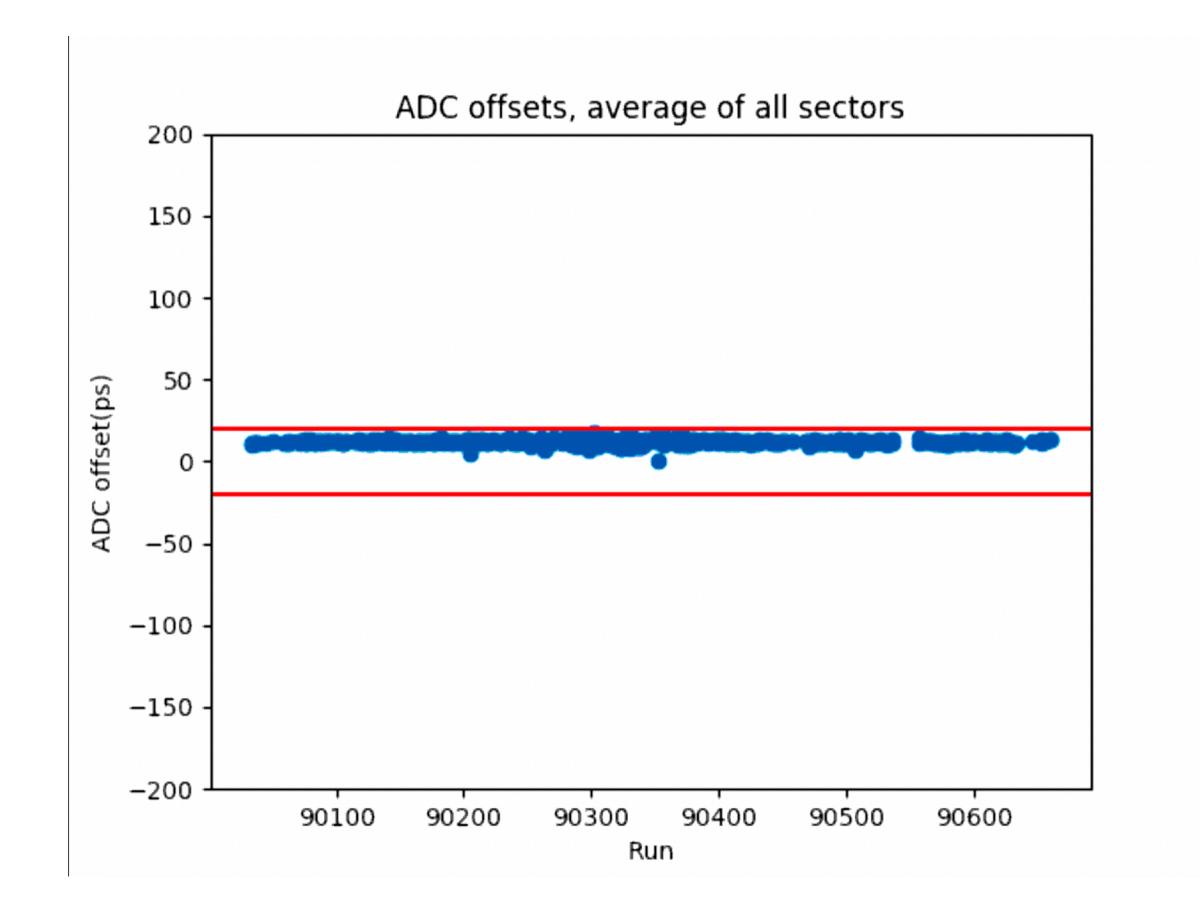


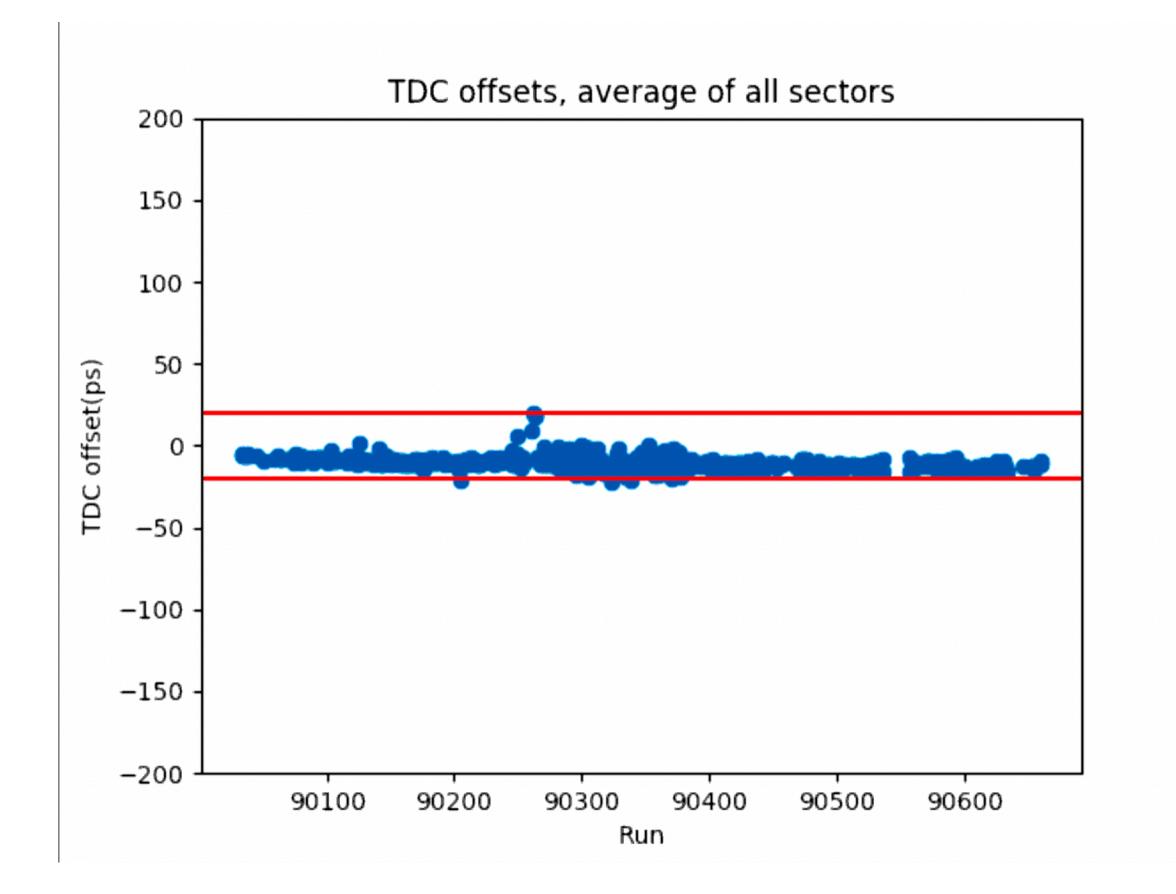
- Coplanarity angle $|\phi_\phi - \phi_p|$, using measured values



TAGM calibrations

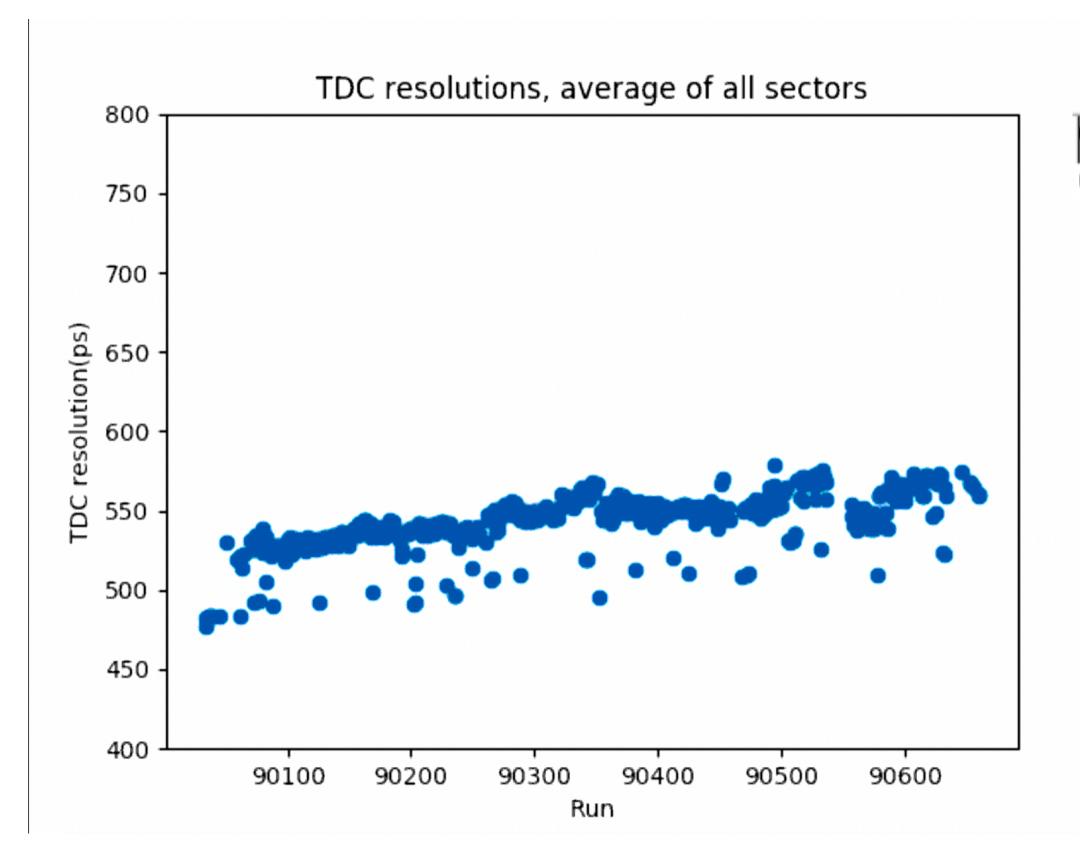
- Monitoring version 5
- Average offset < 20 ps for all runs (channel 100 excluded)





TAGM calibrations

- Monitoring version 5
- TDC resolutions and remaining problems



90102: max TDC offset is 225.00 ps, greater than 100 ps 90288: max TDC offset is 102.00 ps, greater than 100 ps

ST calibrations

- Monitoring version 5
- Average offset < 150 ps for all runs except 90615 and 90616

