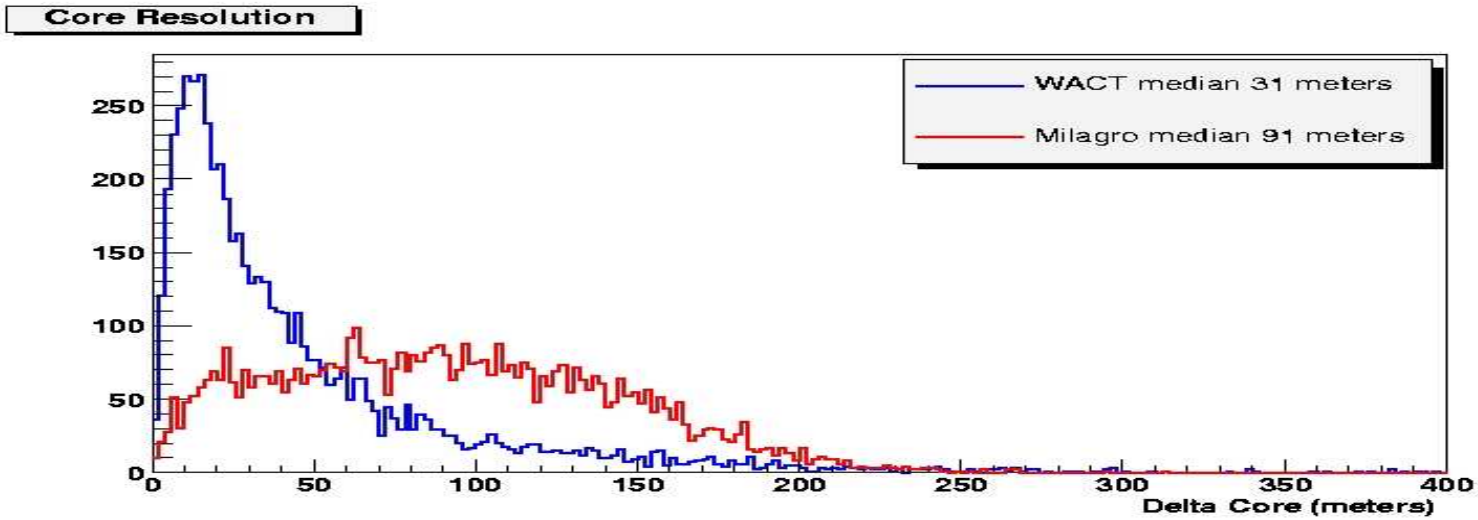
WACT ICRC
(Update)

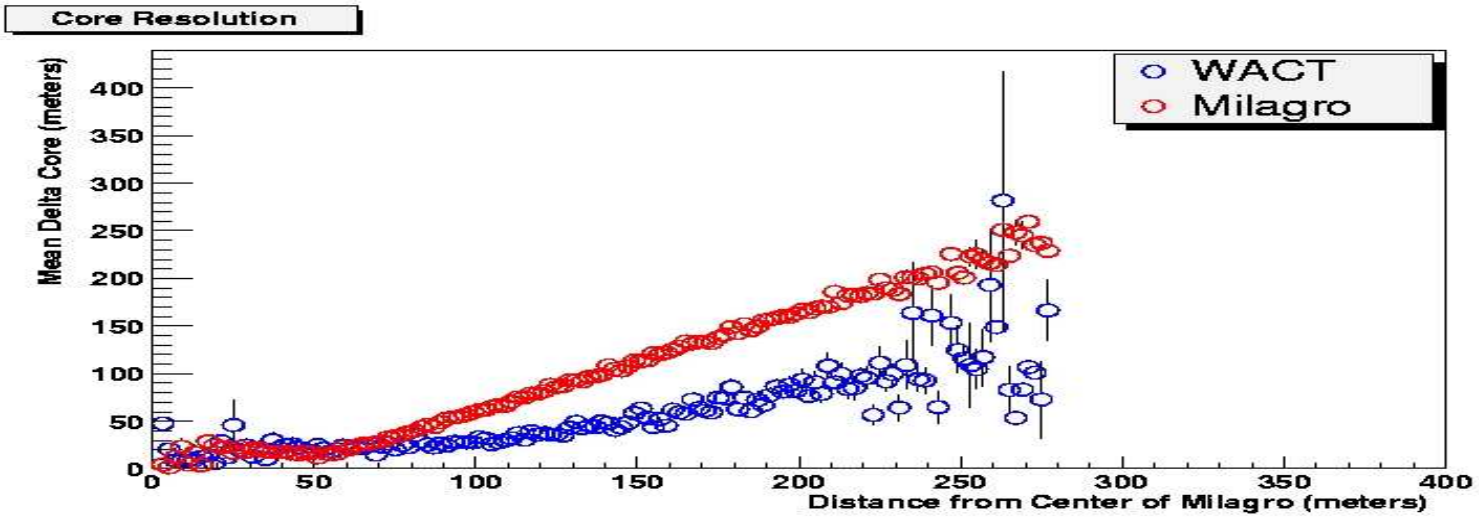
Robert Atkins
Milagro
Collaboration Meeting
Los Alamos

Status of WACT

- Lots of Monte Carlo (could always use more)
  - Thrown from 5 TeV up to 10PeV
- Calibration is still a work in progress (or not in progress based on recent progress)
- Data taking is finished for me
  - ~108 hours of data
- Analysis is almost finished in terms of our current calibration

Event Reconstruction
part I core resolution pre-cuts

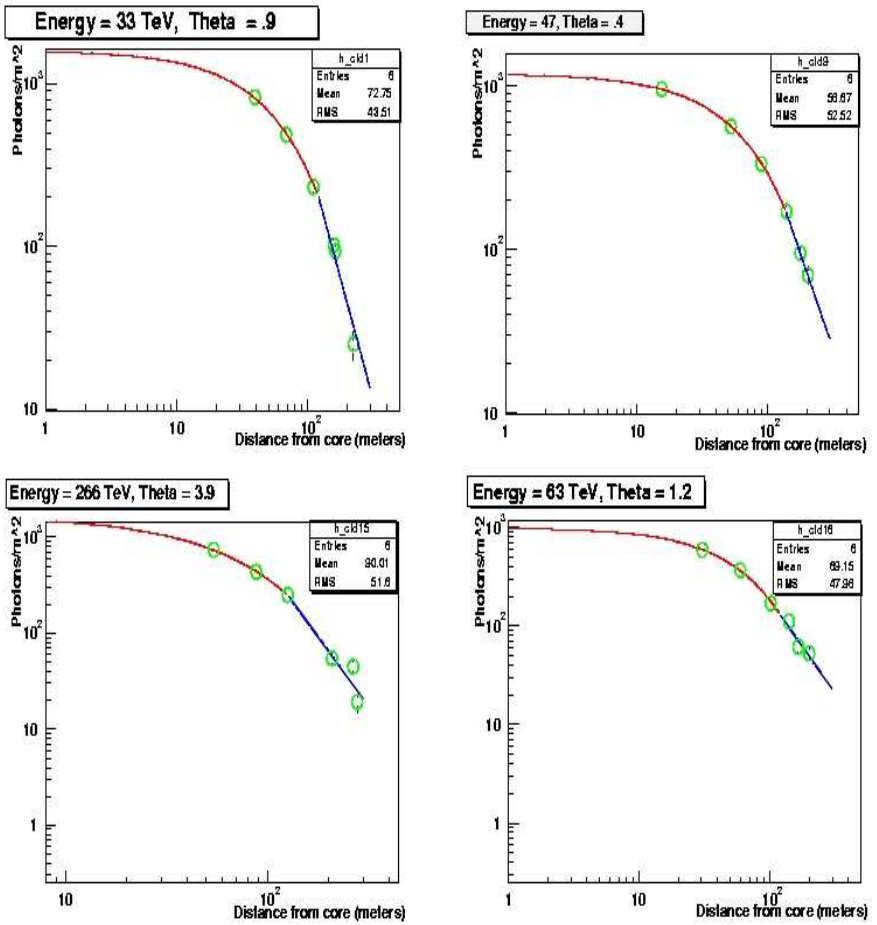




Event Reconstruction
Part II CLD Fits

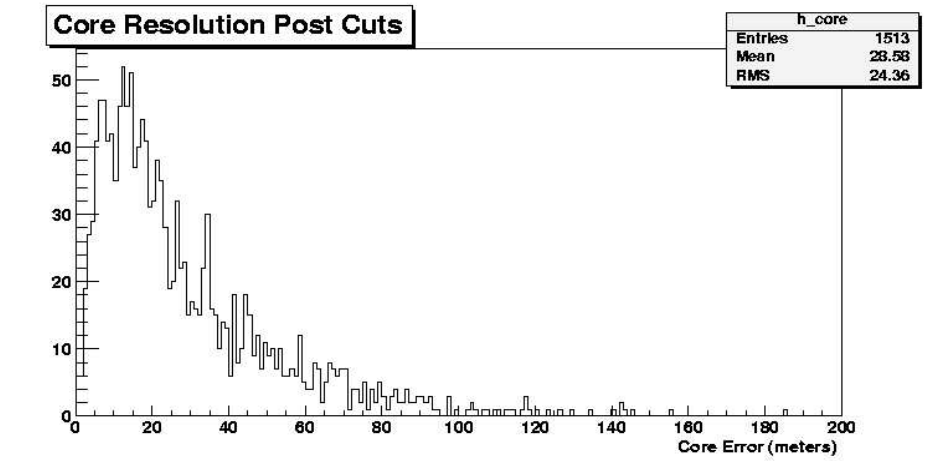
$$C = \frac{C_{R_{sh}} \exp(s(R_{sh} - r))}{C_{R_{sh}} (r / R_{sh})^{b}}$$

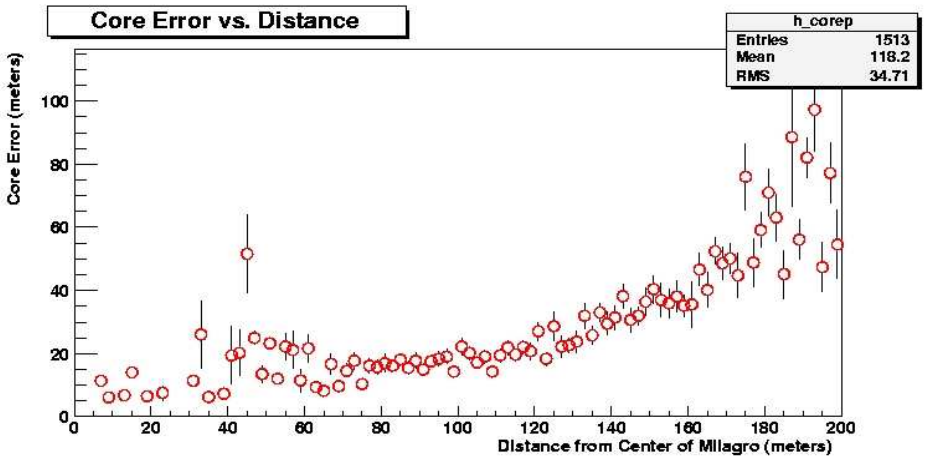
- Once the CLD is refit, cuts one Chi Squared improve the core resolution



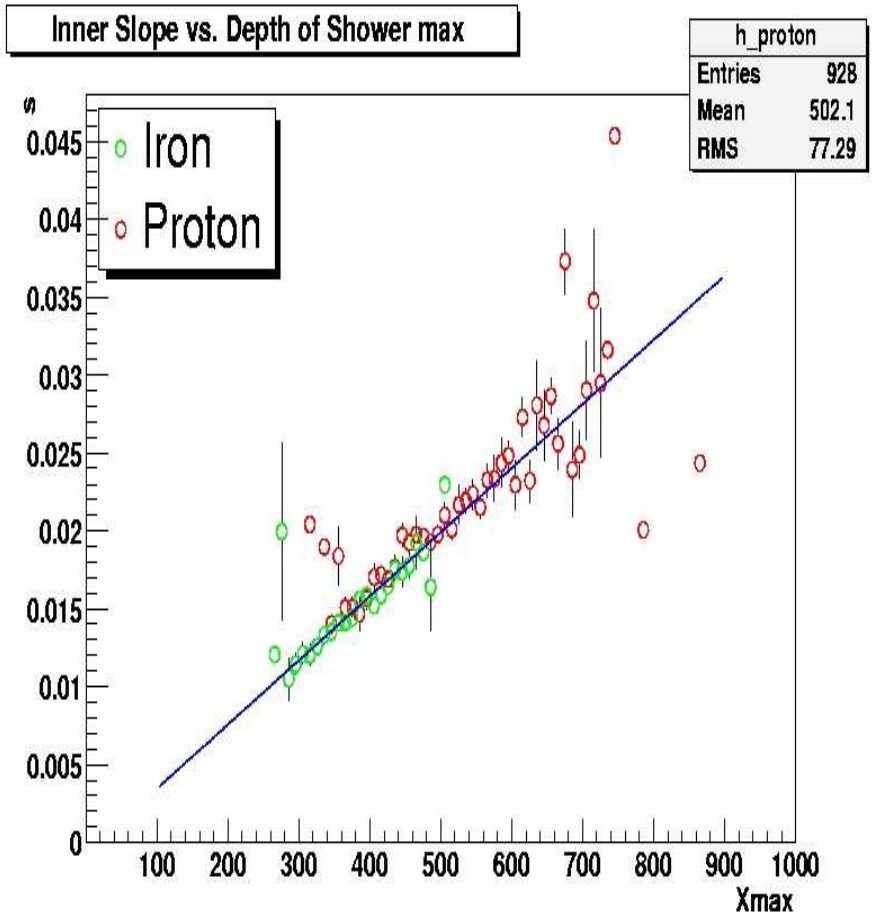
Event Reconstruction
Part III Core Resolution post-cuts

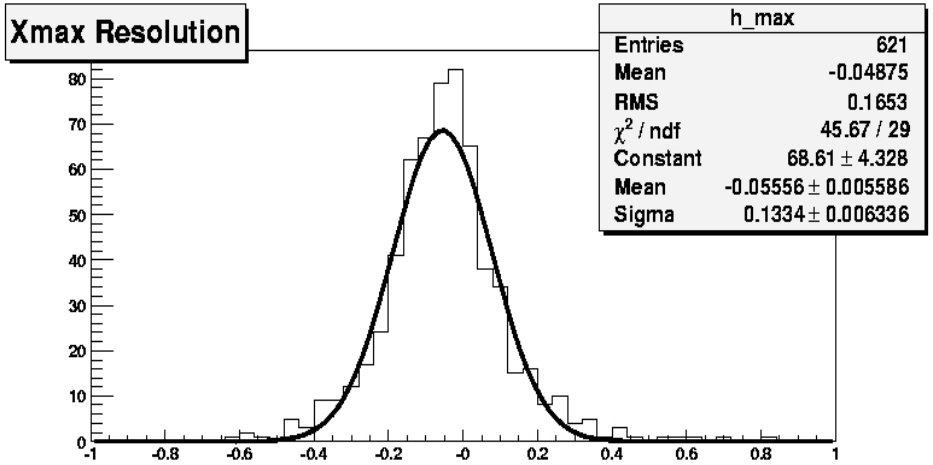
- Improves core location from a median error of 31 to 20 meters

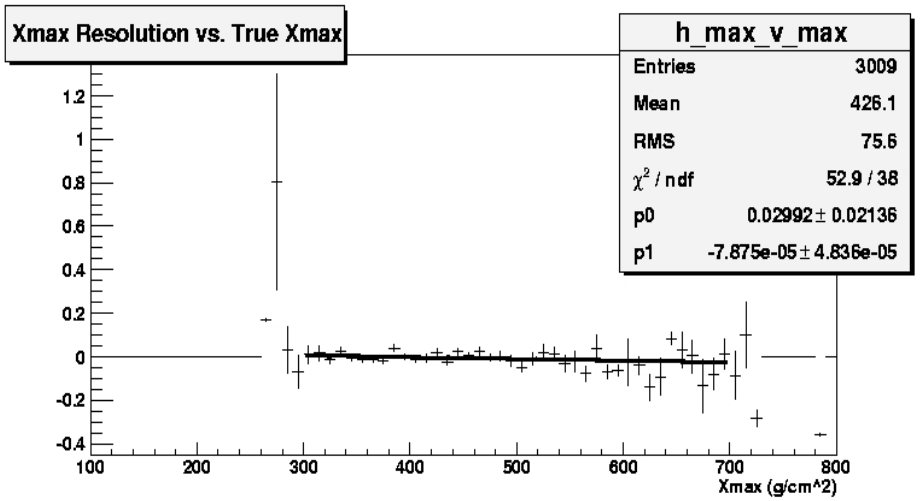




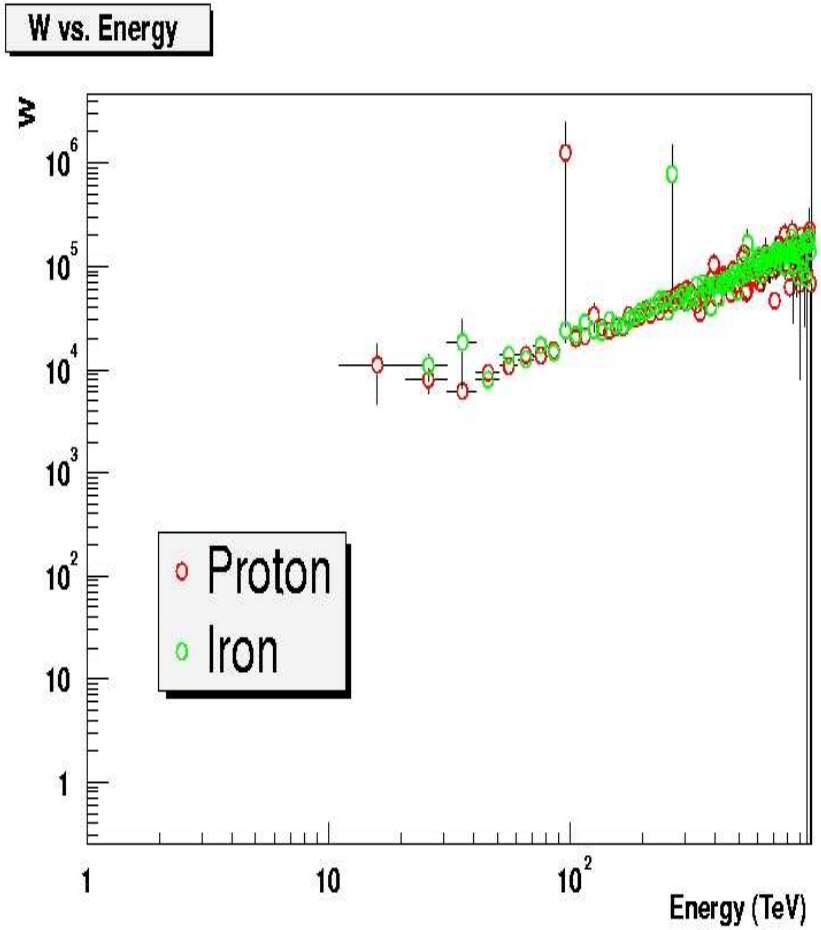
Event Reconstruction
Part IV Shower Max

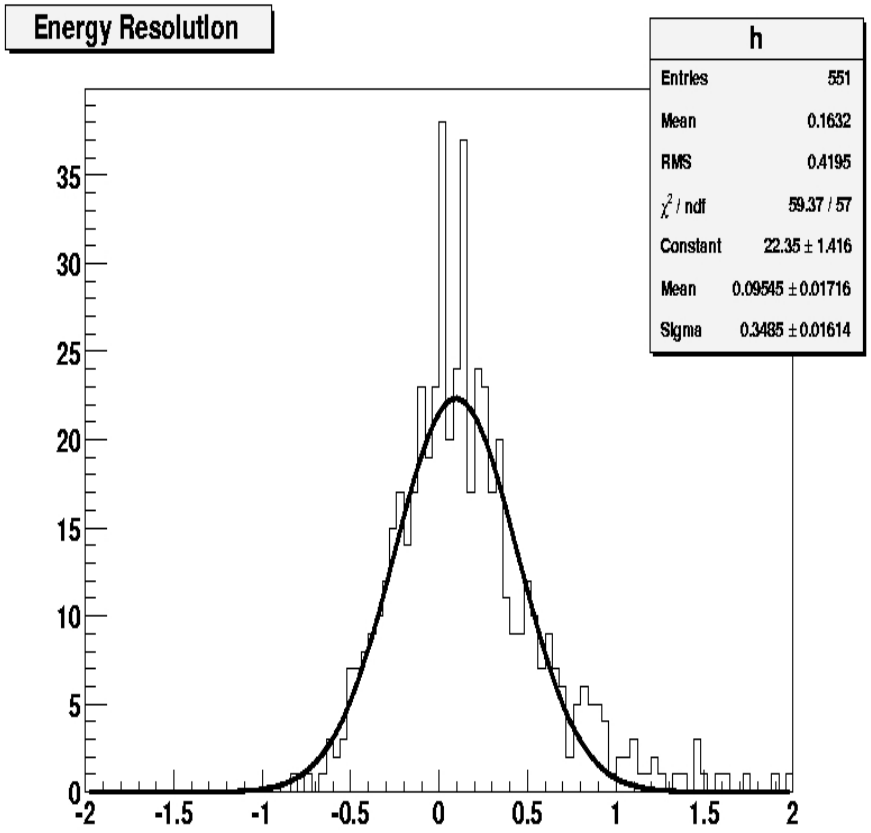




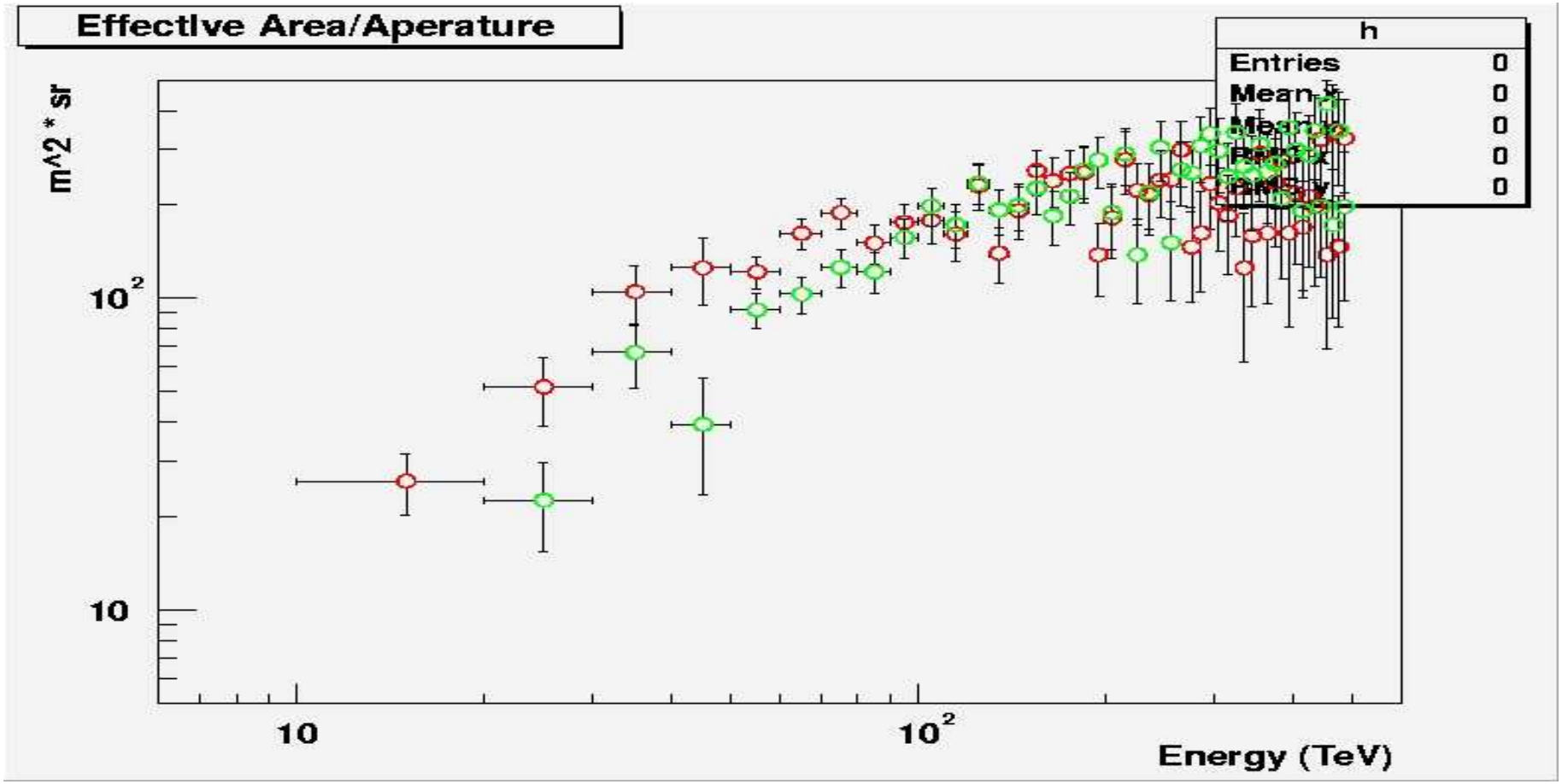
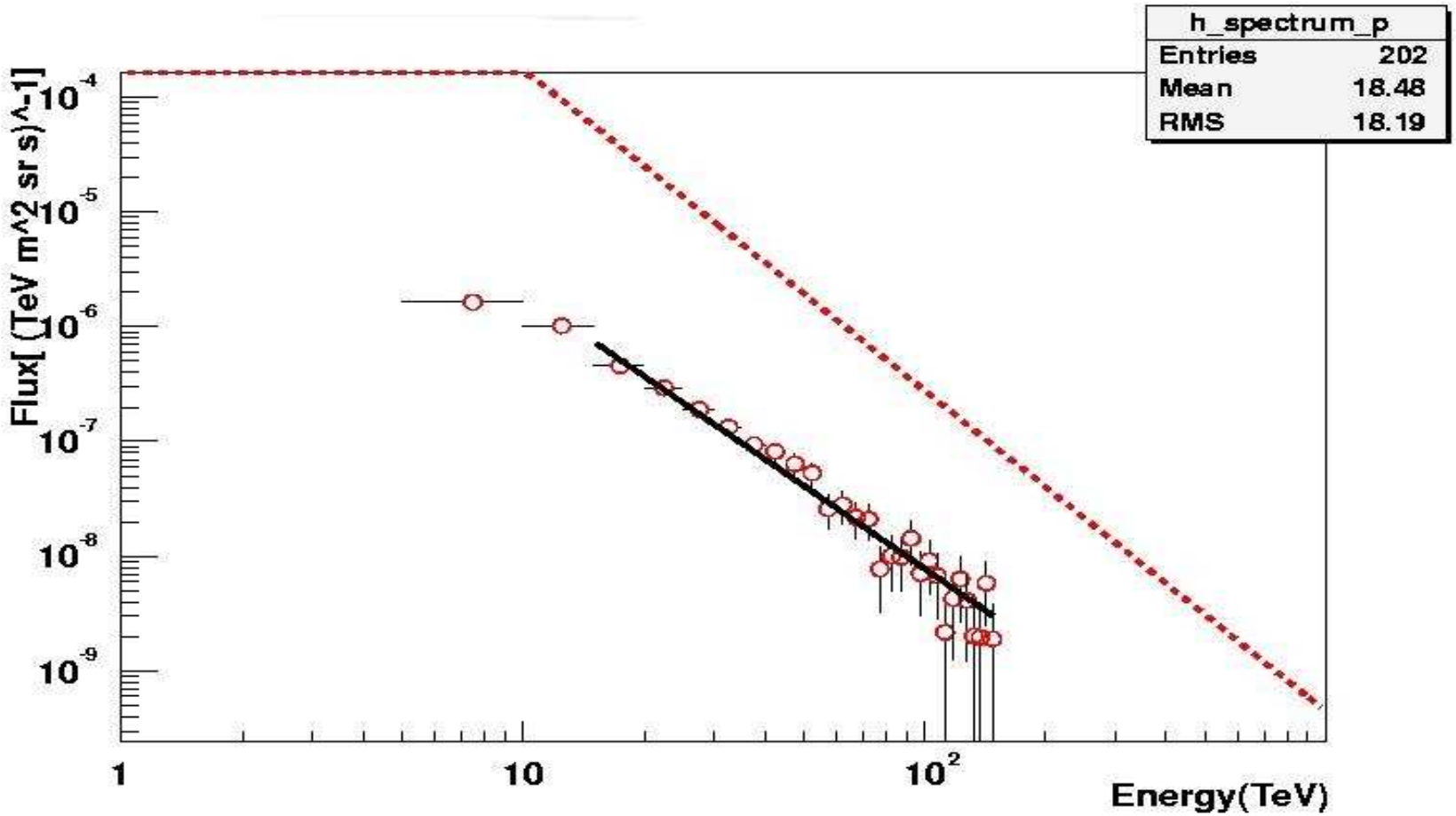


Event Reconstruction
Part V Energy





Effective Area/Aperture



Very Preliminary Spectrum that is obviously not correct