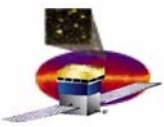


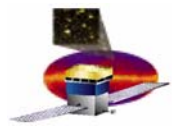
A Brief History of Glast Release

- **GR1.1594 (Friday, July 15)**
 - Effectively, the first DC-2 2M all-gamma sample
 - Had various problems (no MIP finding, Direct diode deposit all to one face, etc.)
- **GR1.612 (Wednesday, July 27)**
 - **Why change one thing when you can change 10?**
 - 21 packages change between these two runs
 - **Most important to this discussion:**
 - Convert ntuple output from doubles to floats
 - CalDigi, CalXtalResponse and Trigger packages extensively refactored. Also attempts to raise thresholds to 2 MeV and double the noise
 - MIP finding turned on (version optimized for speed)
 - Various bug fixes in CalRecon, Event and AnalysisNtuple related to new Cal output format
 - **All runs use the same seed so can't be used...**



A Brief History of Glast Release

- **GR1.613 (Friday, July 29)**
 - Fix run seed problem
 - Notice that energy response appears to have changed significantly
- **GR1.615**
 - Six packages modified, including:
 - CalXtalResponse – fix bug which allowed longitudinal position to be outside hit crystal (and often in another tower...)
 - CalRecon – fix bug in Last Layer Likelihood tool which caused it to not get called
 - Still see problem with energy response in recon
- **GR1.615-mod**
 - Back out CalDigi/CalXtalResponse/Trigger to post GR1.594 versions
 - This puts thresholds and noise back to “old” versions
 - But appears to “solve” the energy response problem

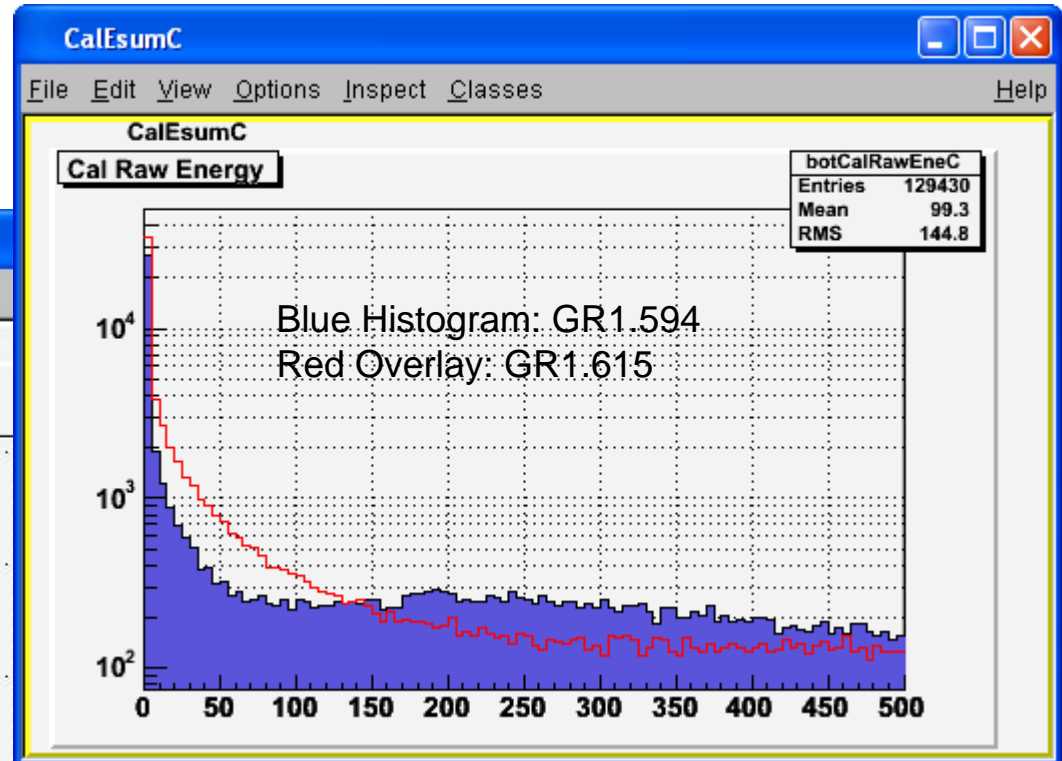
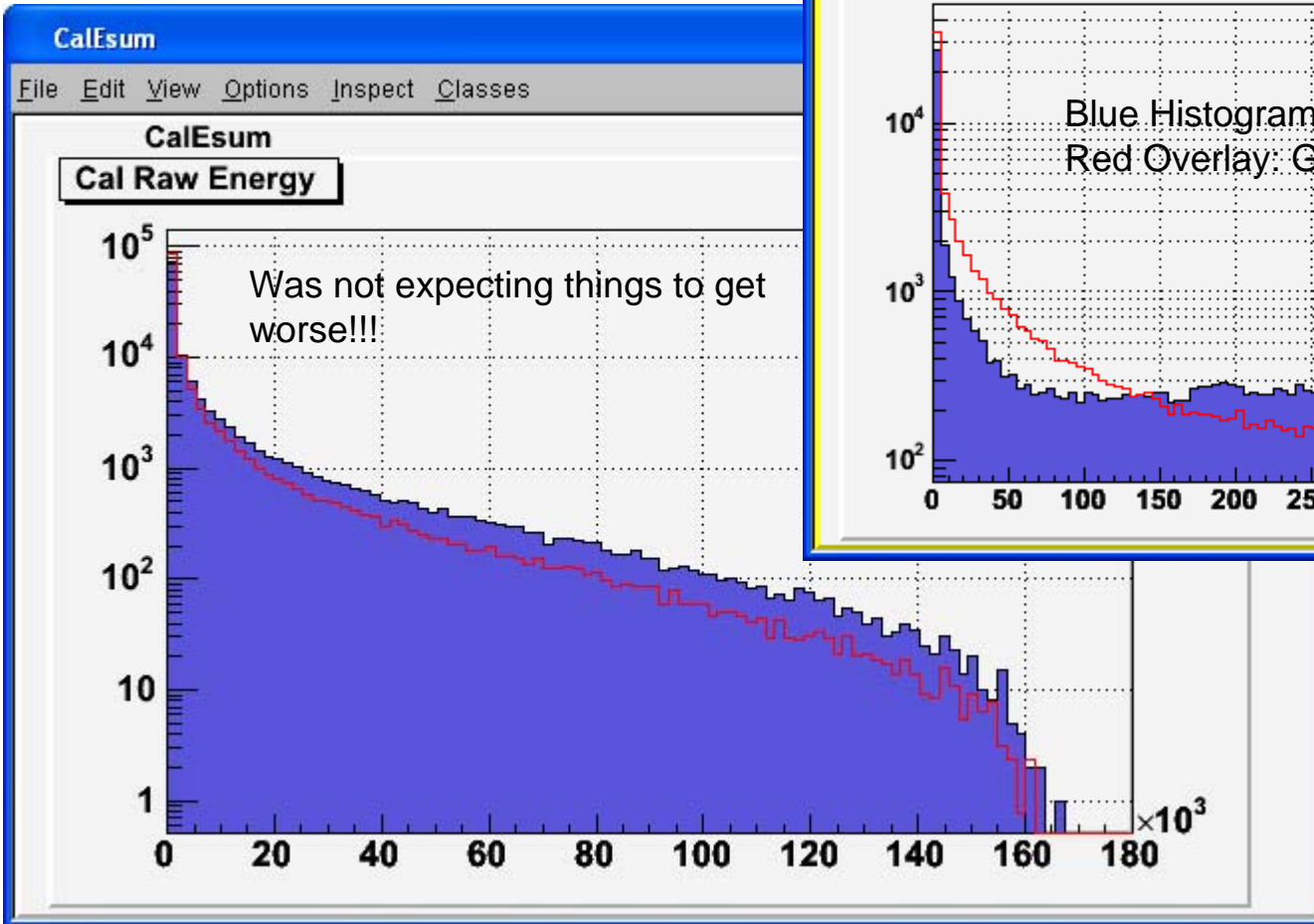


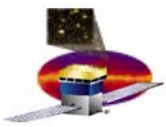
Cal Raw Energy Sum

GR1.594 to GR1.615



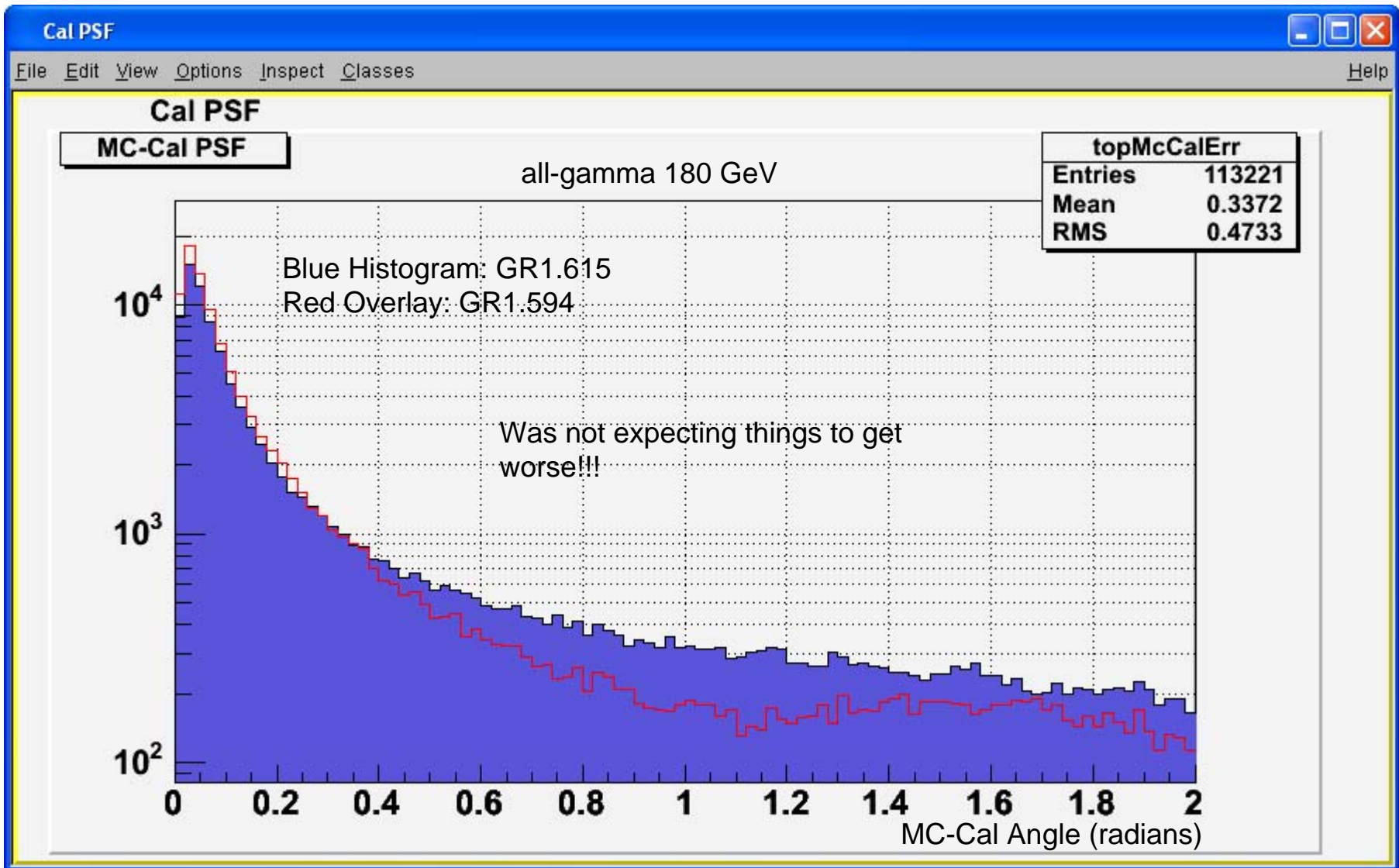
all-gamma 180 GeV





Cal "PSF"

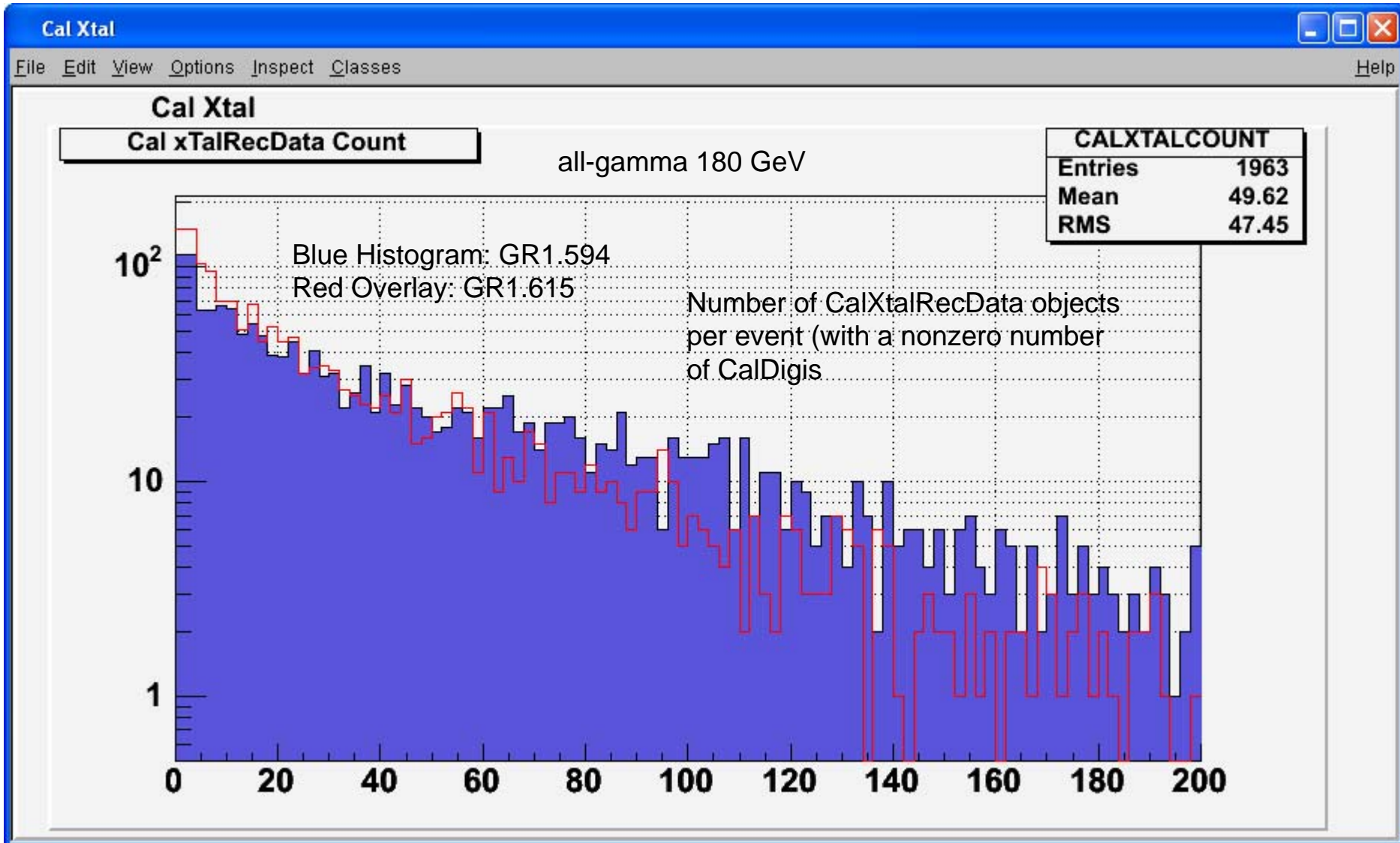
GR1.594 to GR1.615





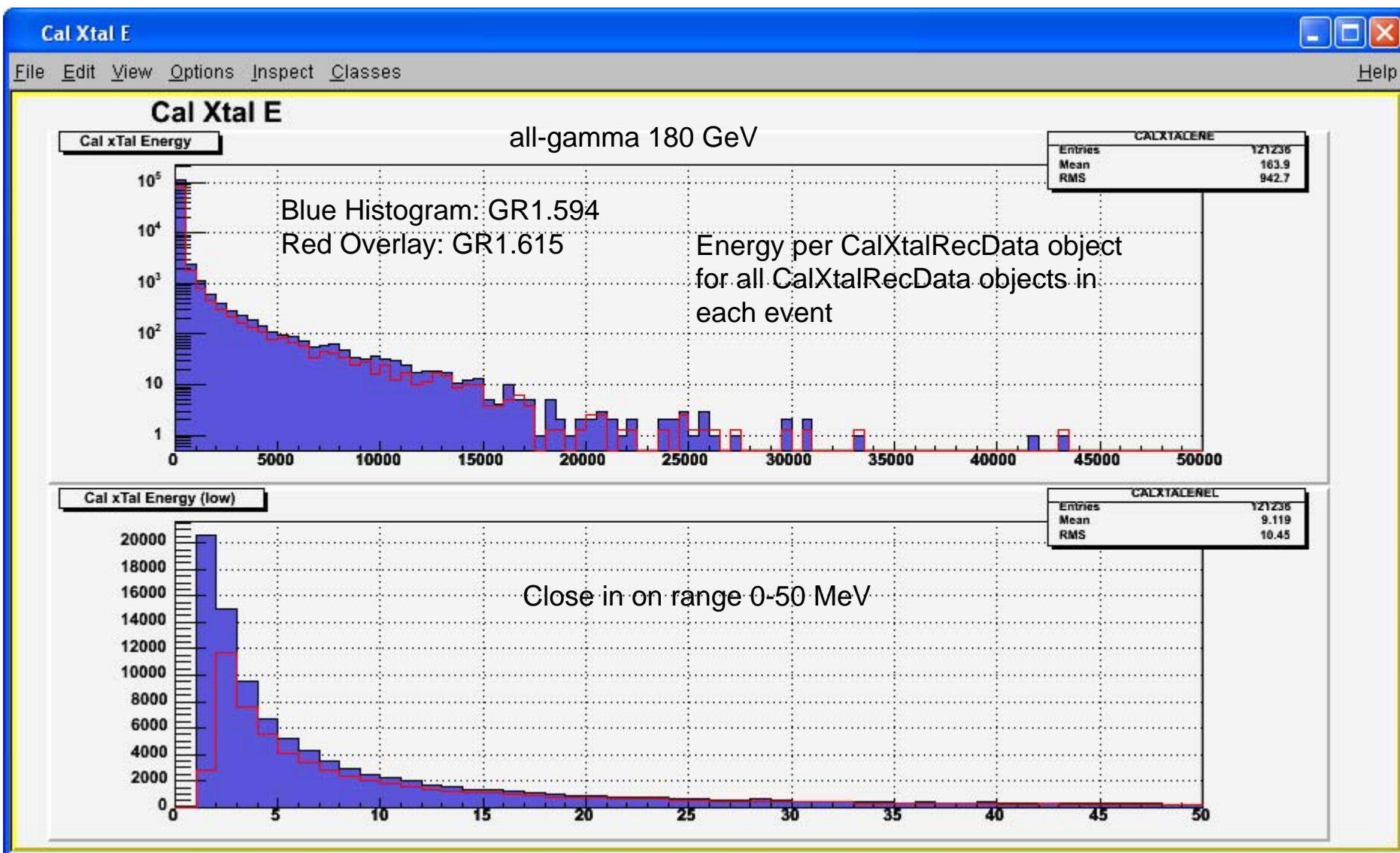
Look at Input to CalRecon

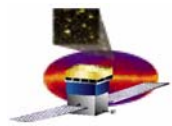
CalXtalRecData: GR1.594 to GR1.615



Look at Input to CalRecon

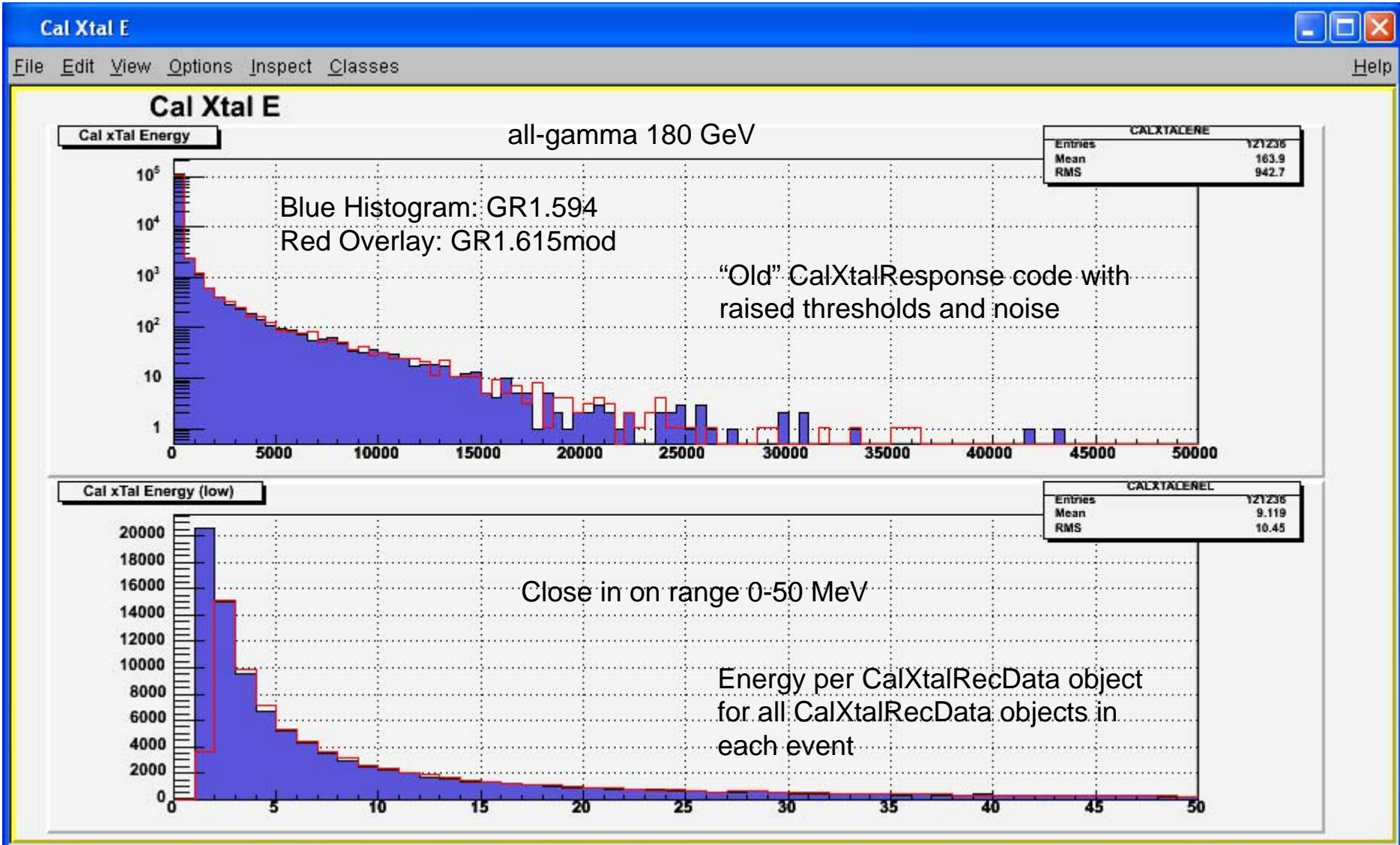
CalXtalRecData: GR1.594 to GR1.615

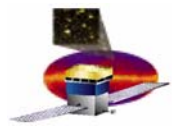




Look at Input to CalRecon

CalXtalRecData: GR1.594 to GR1.615mod



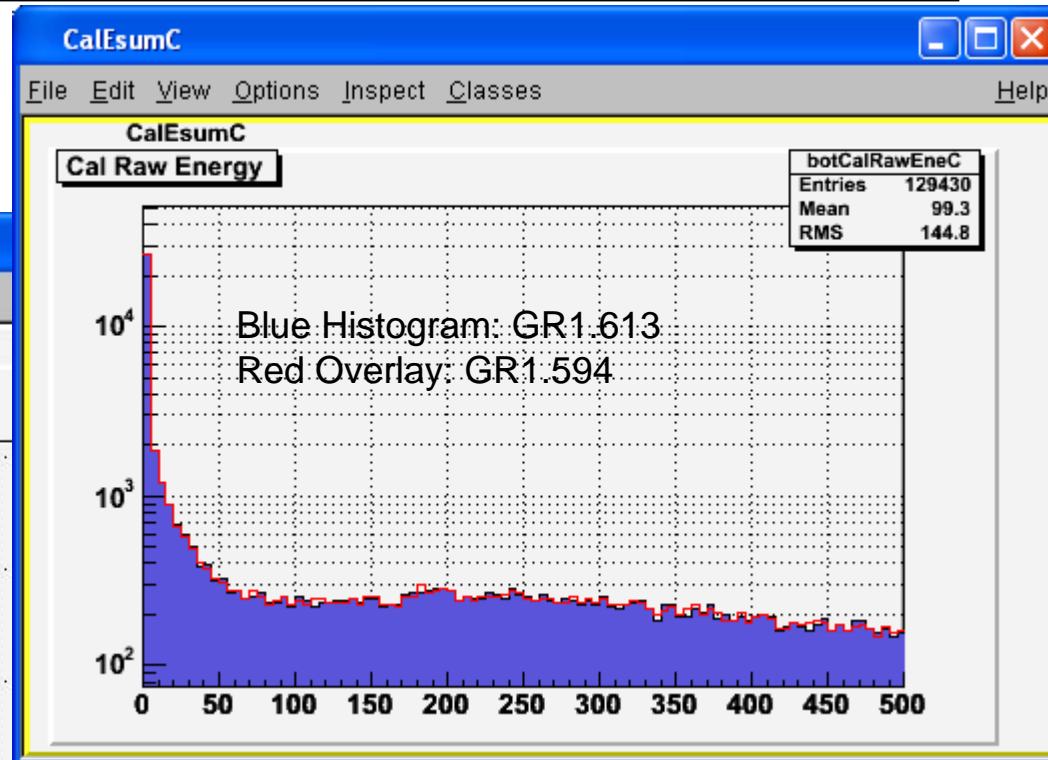
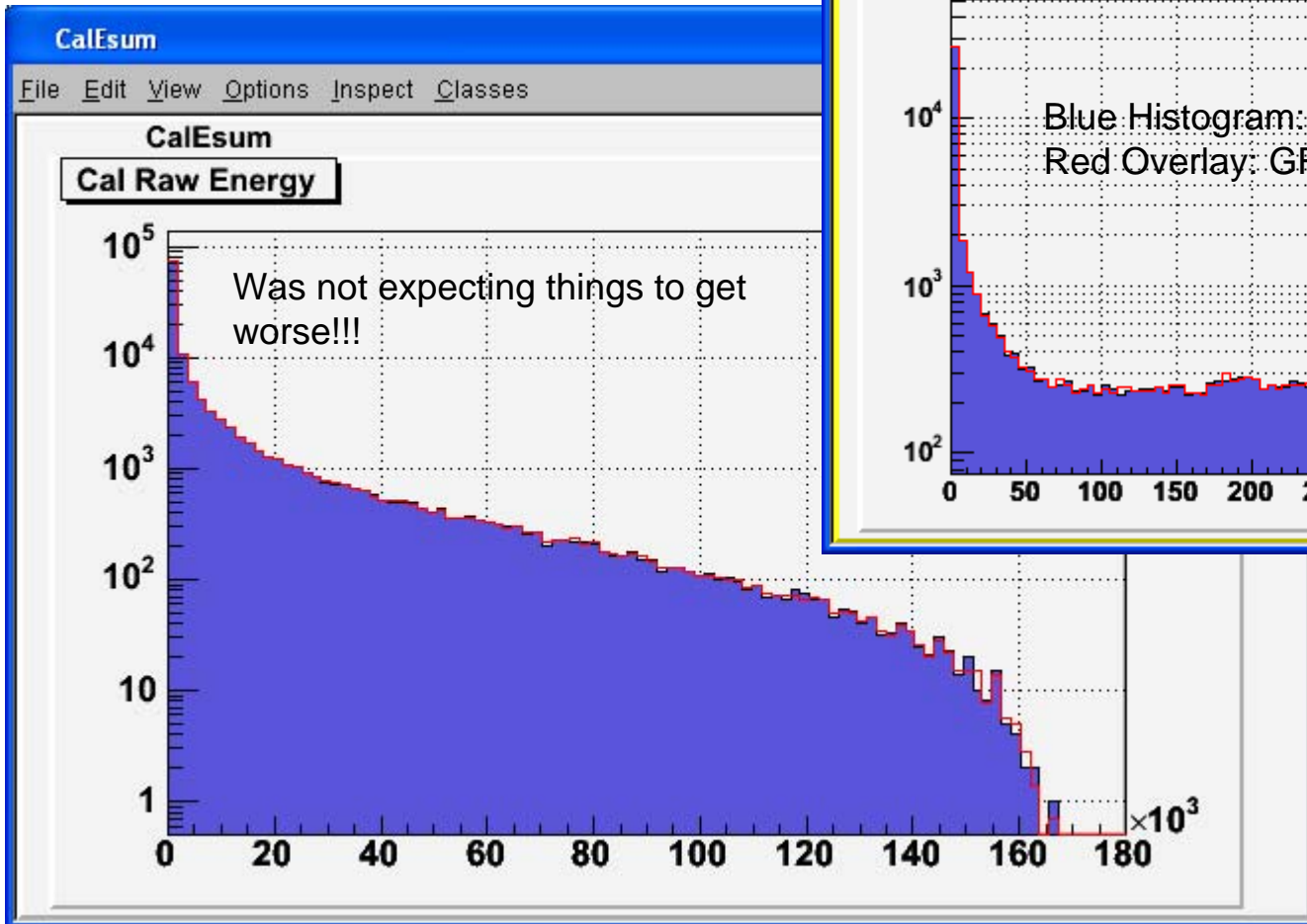


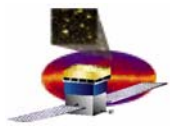
Cal Raw Energy Sum

GR1.594 to GR1.615



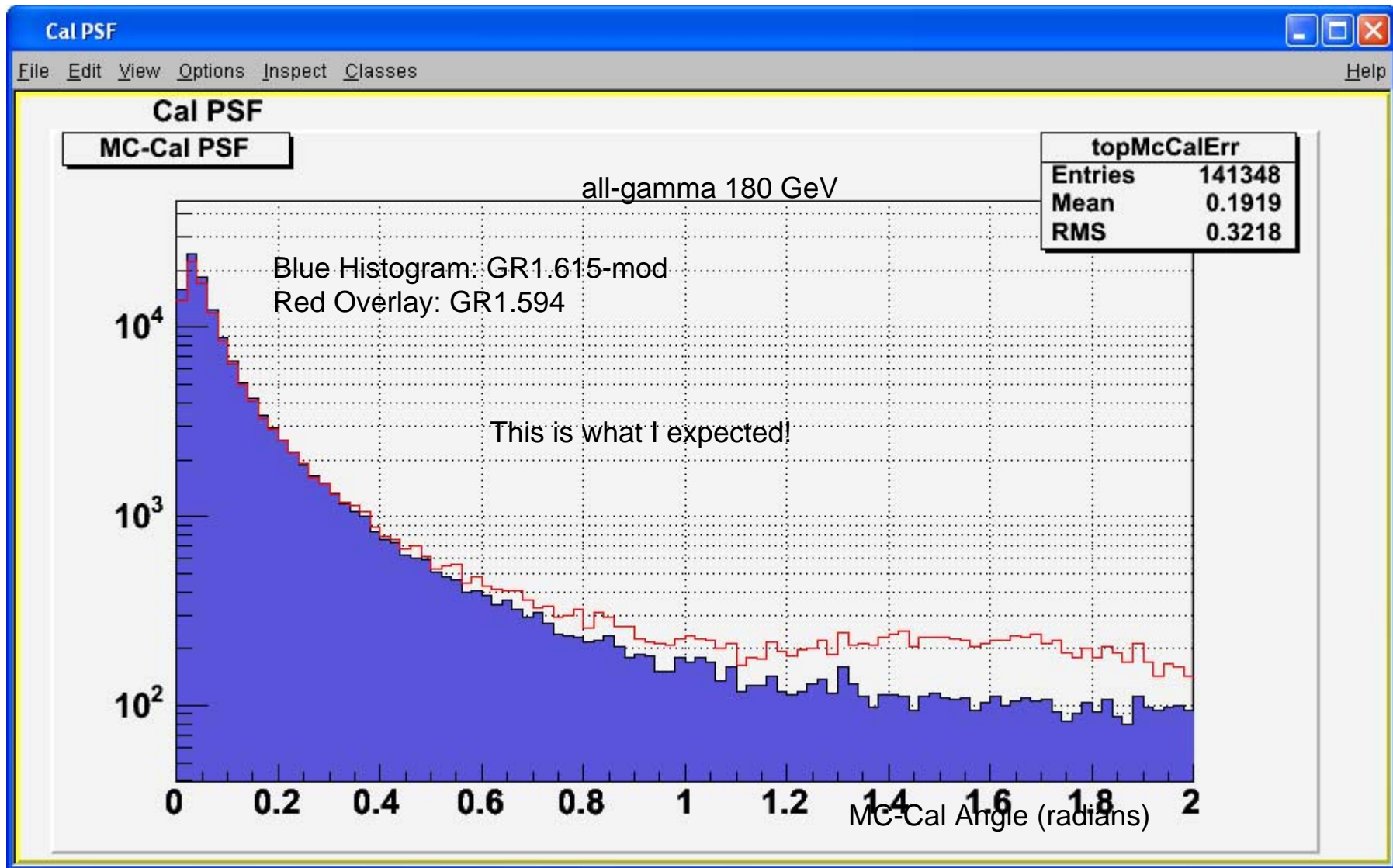
all-gamma 180 GeV

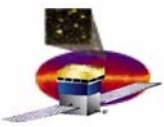




Cal "PSF"

GR1.594 to GR1.613





Where Are We Now?

- **Recon appears to be ready for CT studies again**
 - MIP Finding code in place and in output ntuple
 - Cluster energy and axis appear to be “normal”
- **Running the “old” CalDigi/CalXtalResponse/Trigger**
 - Can raise thresholds and noise in this code to desired levels
 - Are we losing something in the updated package that we need for DC-2?
 - Time frame for studying/fixing the code?
- **Are there other problems?**
 - Onboard Filter is having a problem too?
- **Opinions?**