



# Getting Ready for Data

**Frank Chlebana**  
**Informal LPC JetMET Meeting**  
**Sept 15 2008**



# Analysis Code



**Added example to:**

**Run over CRUZET4 data**

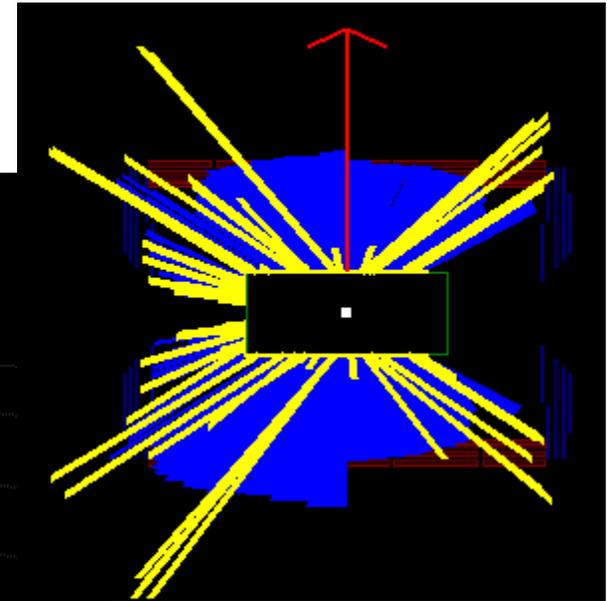
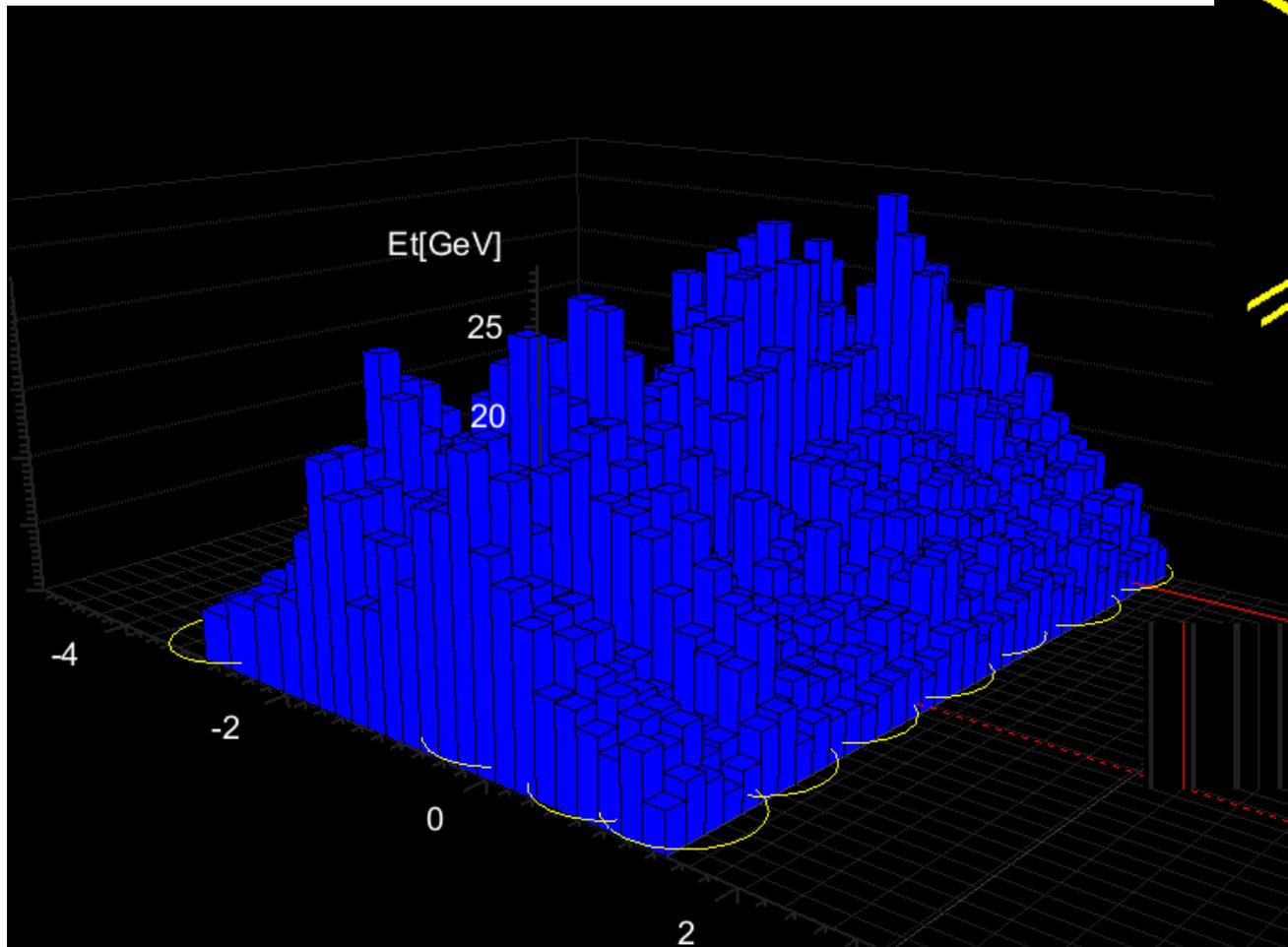
**Write out histograms**

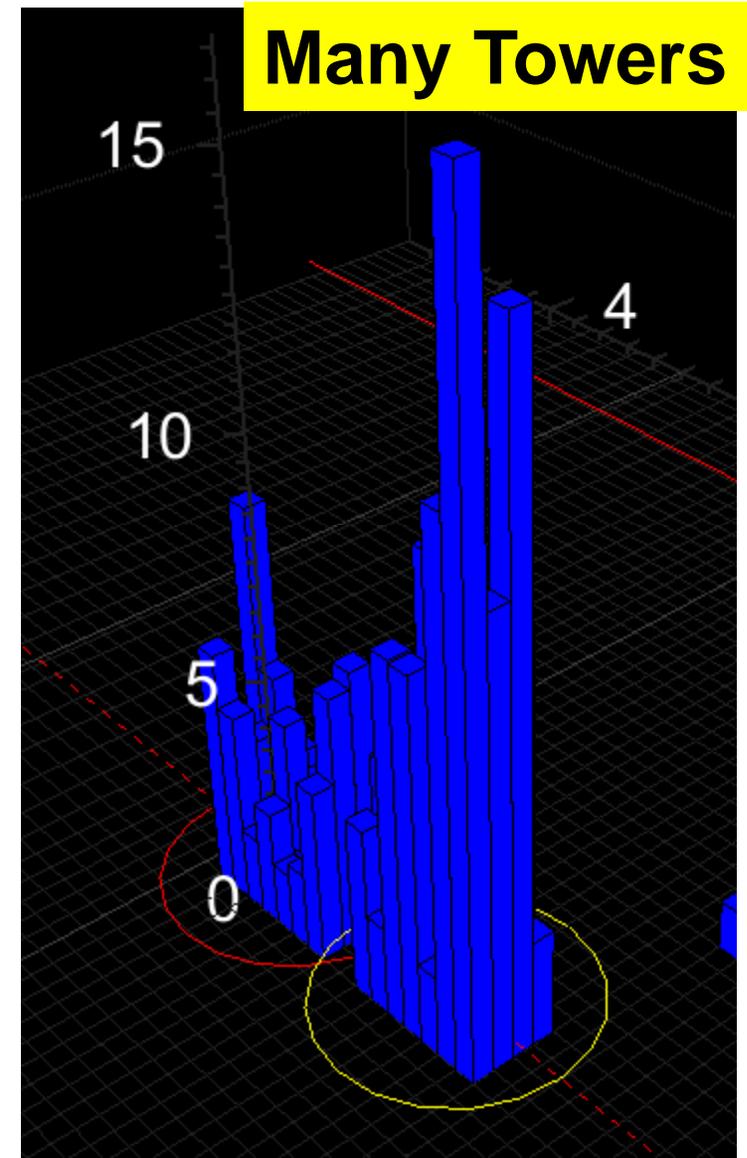
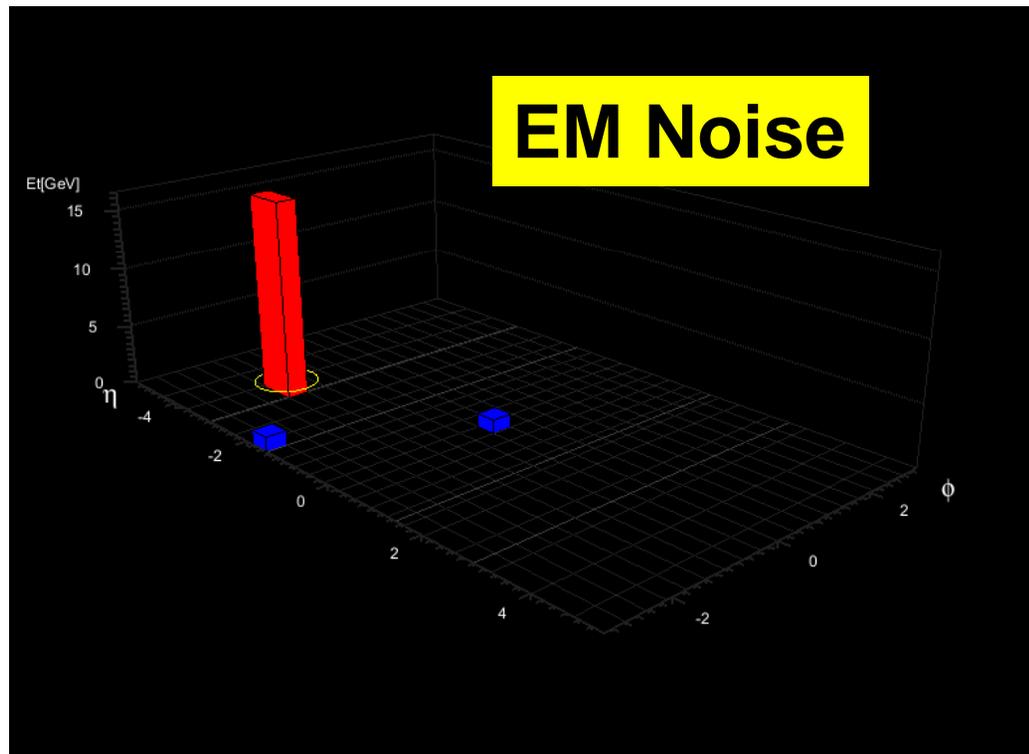
**Select events passing filter and write to file**

**Can then scan the output file using FireWorks**

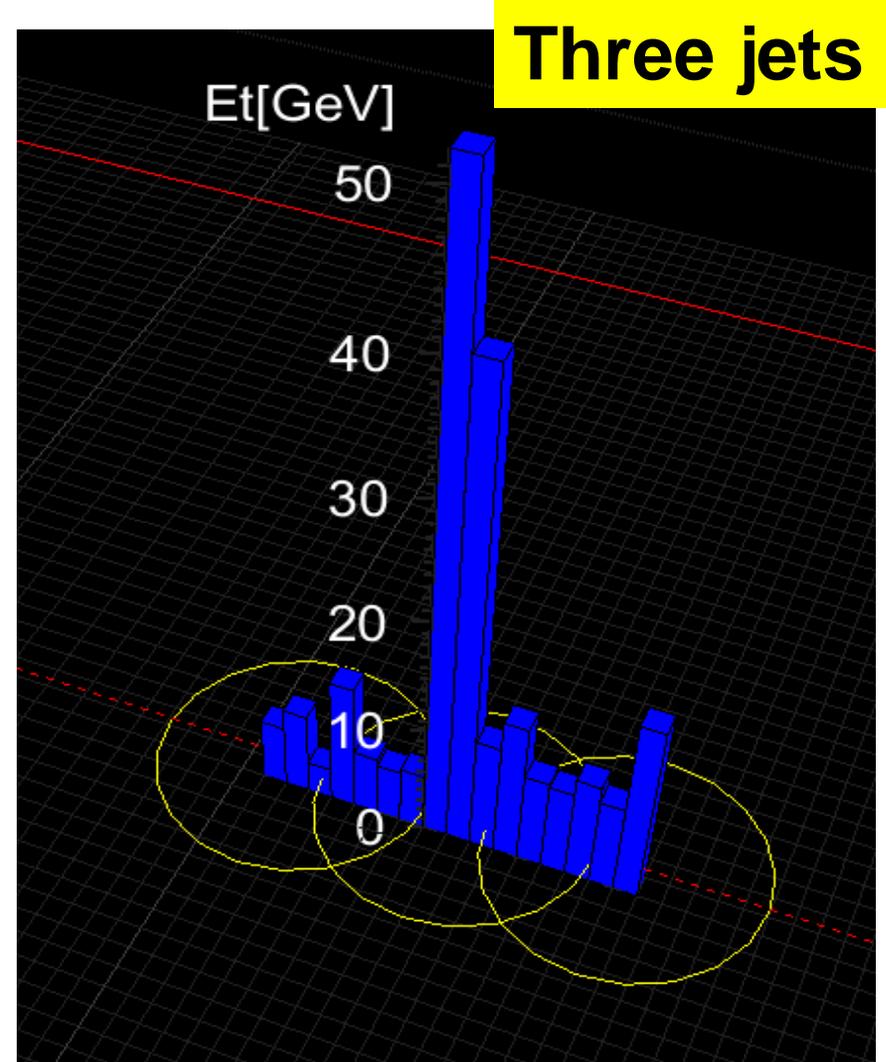
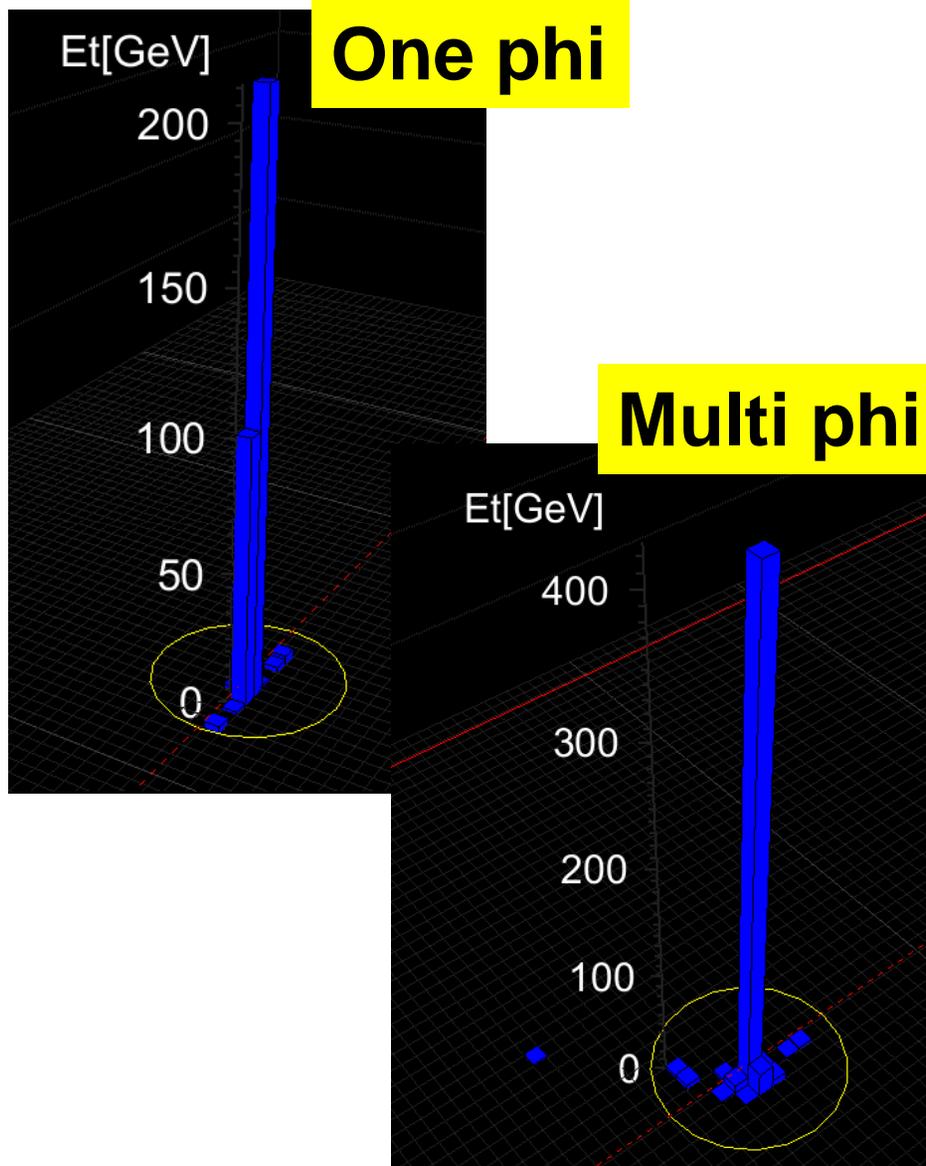
**Documentation can be found at:**

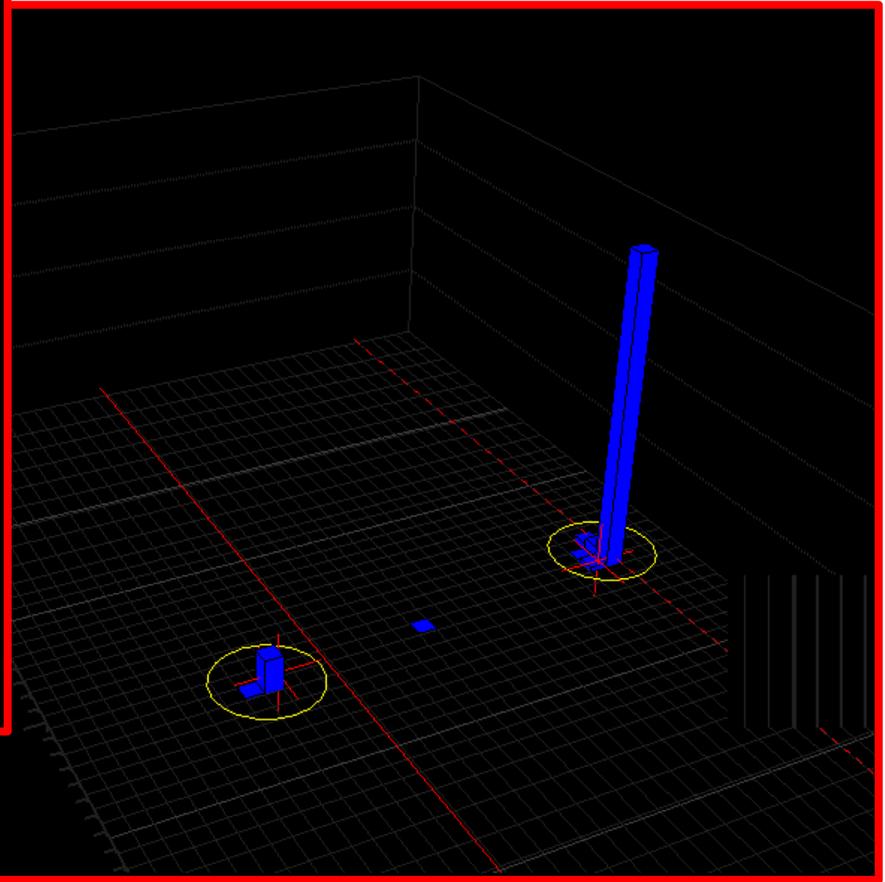
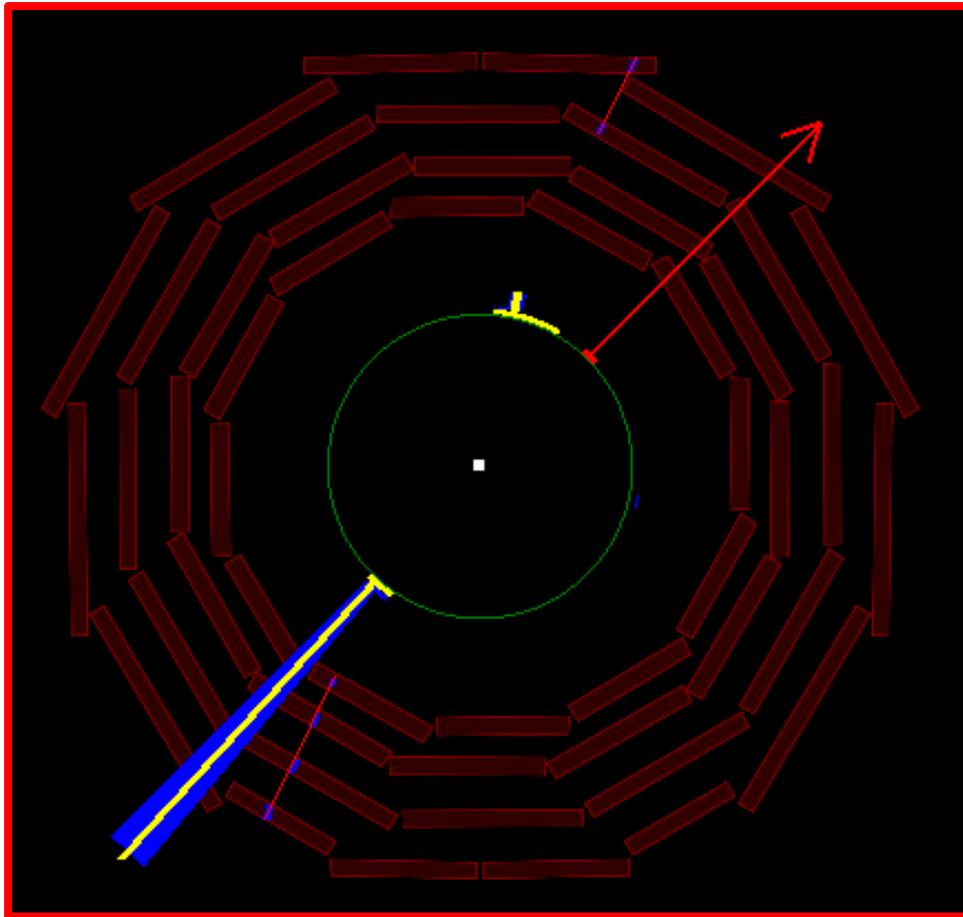
**</CMSSW/RecoJets/JetAnalyzers/doc/myJetAna.html>**





# Scanning Events





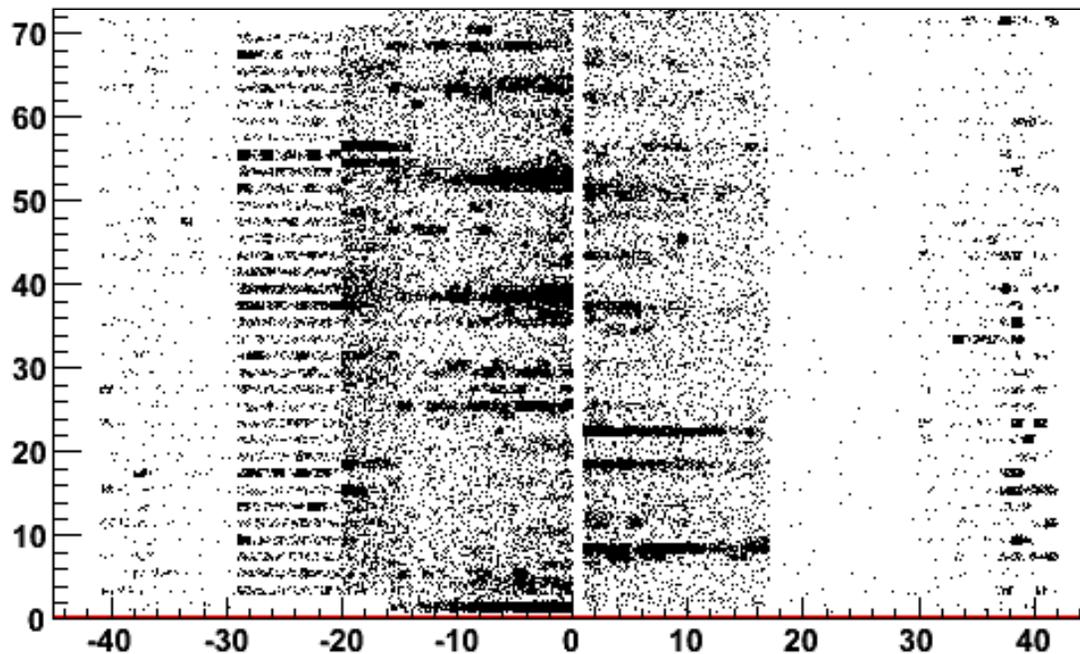
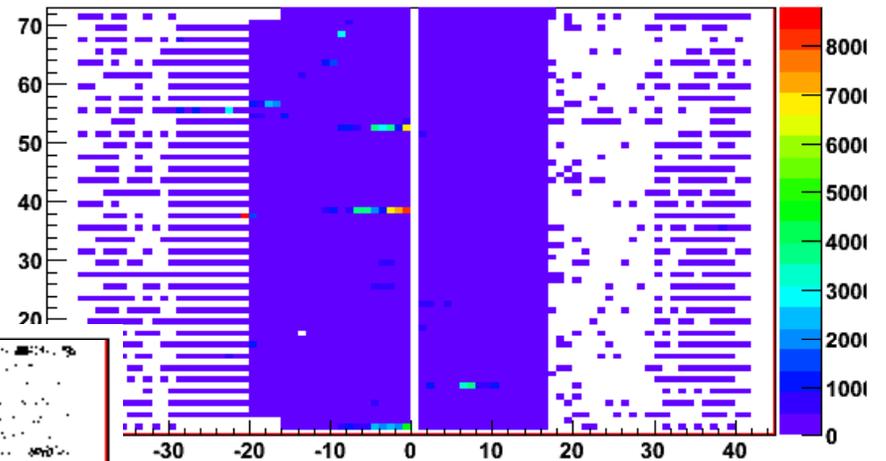


# HAD Noise in CaloTowers



## CaloTowers with $E > 2$ GeV

Had Energy

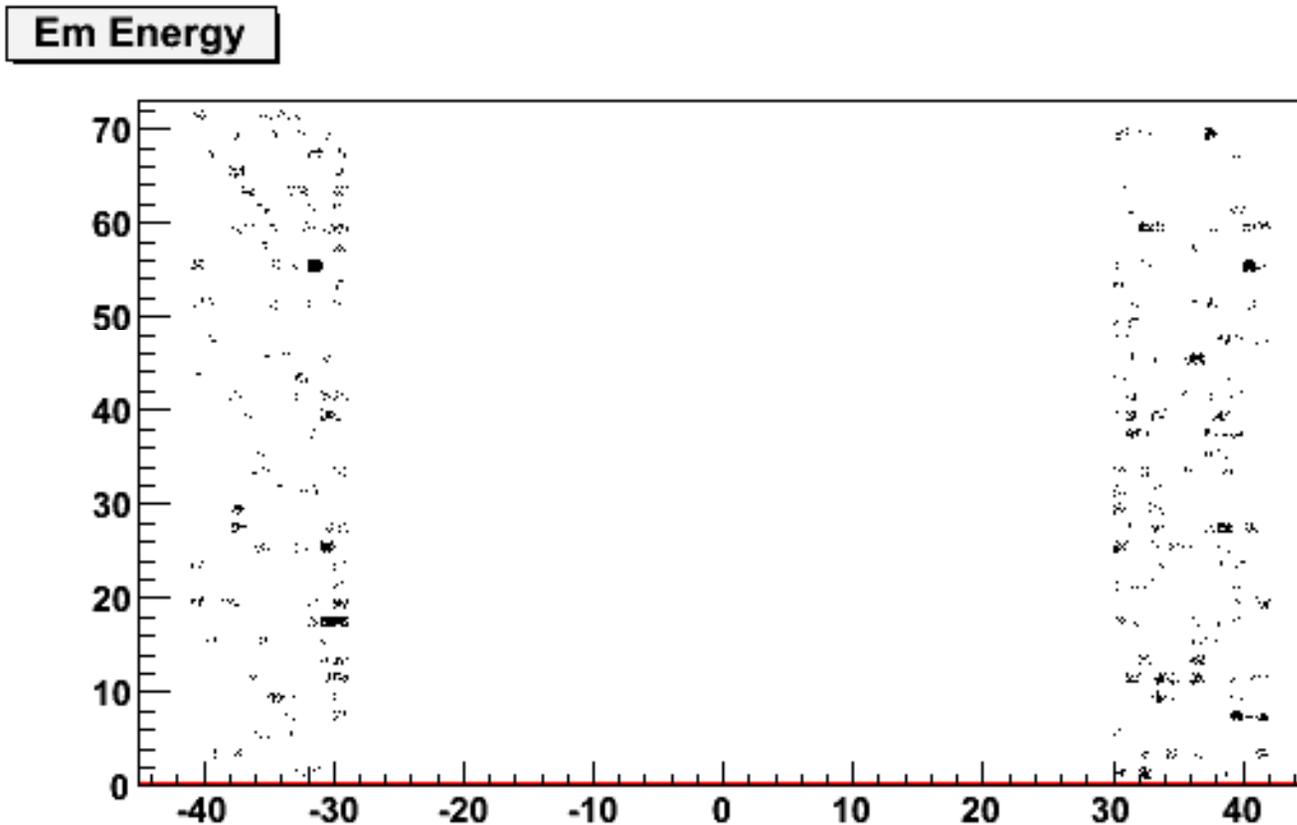




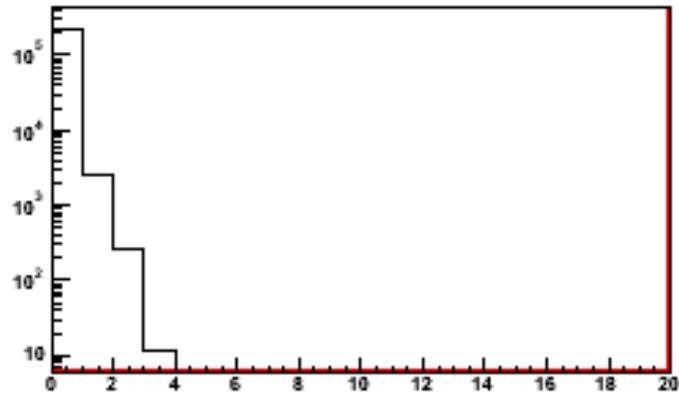
# EM Noise in CaloTowers



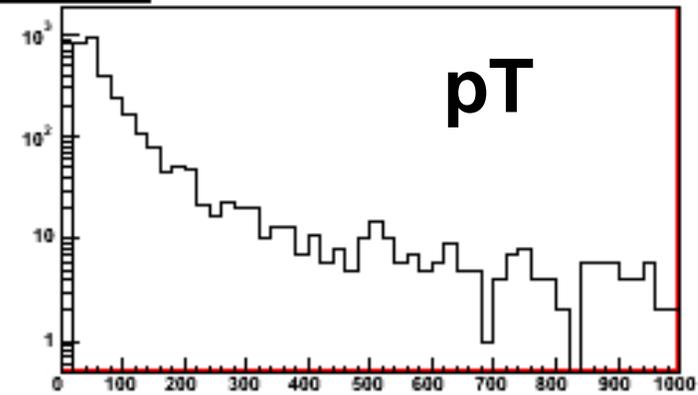
## CaloTowers with $E > 2$ GeV



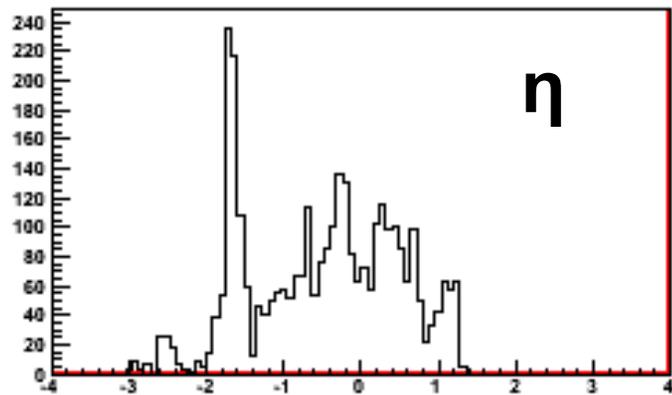
Number of CalJets



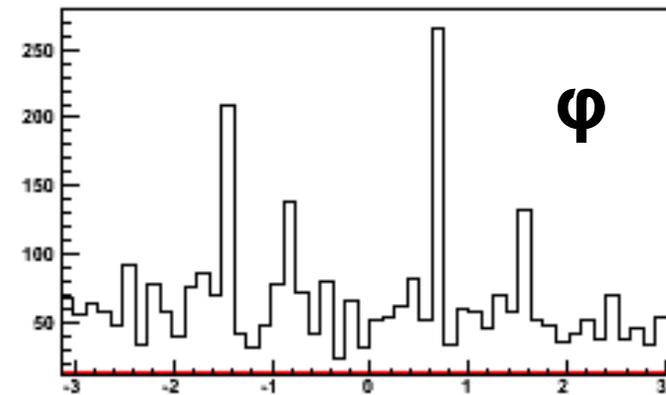
$p_T$  of CalJet



$\eta$  of CalJet



$\phi$  of CalJet

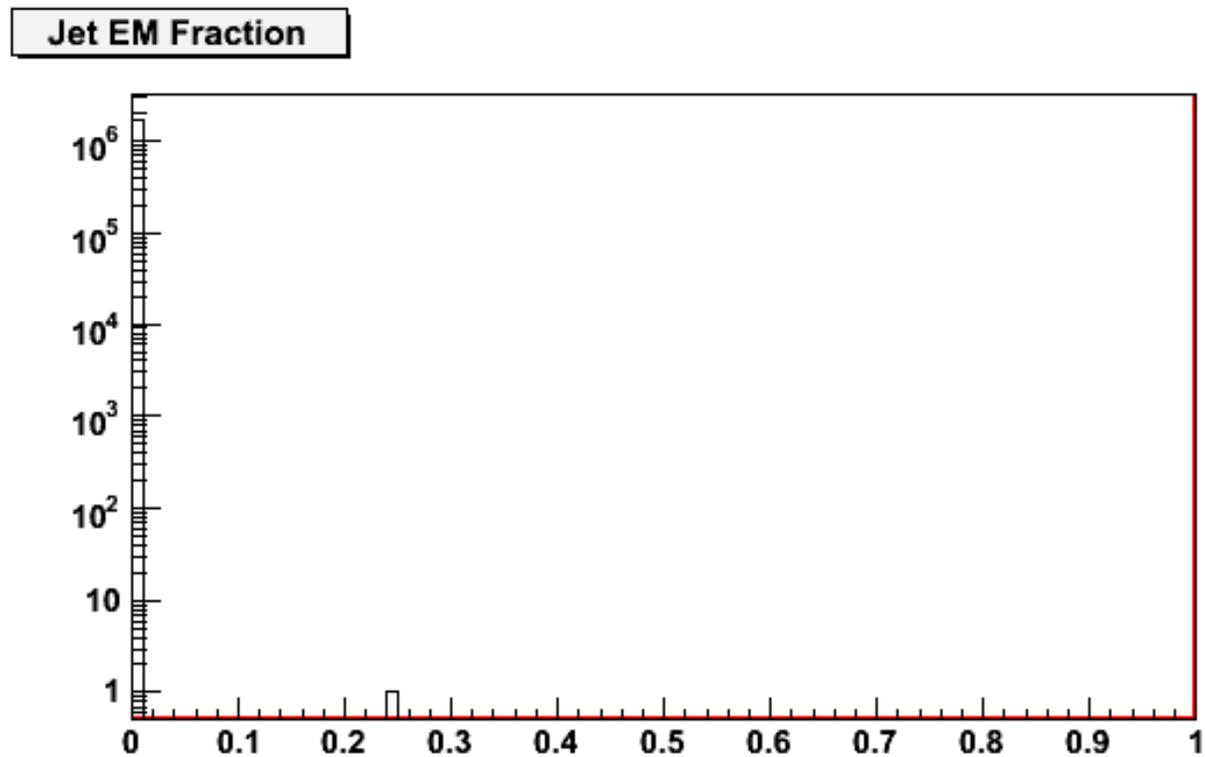




# CRUZET4 Data



“Noise Jets” only have HAD energy





# Common Issues



## Select good data set

*Test tools to select good runs*

*Require subset of detectors*

*Select specific runs*

*Some of the cruzet4 files are missing*

*How do we get the Luminosity*

*Check for missing/duplicate events*

## Develop cleanup cuts

*Use global run data to test clean up filters*

*HDP noise*

*Cosmic muons*

*Beam halo*



# Common Issues



## Strip events

Would be nice to have a reduced dataset, small enough to quickly run over multiple times

*PAT*

*Subset of reco objects*

## Analysis code

*Code repository*