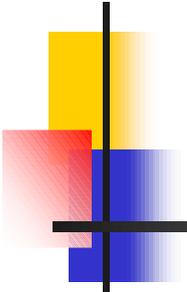


ICR Corrections For p13.02

- JES event strip (p13.02)
- 1st look at ICR correction from p13.02
 - (No longer thumbnail challenged thanks to help from Philip)
- To do



P13.02 ThumbStrip

- **Strip Sample p13.02 CMT_8.41**

- Runs 166936 - 167015 (whatever was reconstructed with p13.02 as of Nov. 18)
- Number of Events processed: ~2.3M
- Number of Events in thumbstrip: 373,527
- data is in:

/rooms/kitchen/imperial/goussiou/p13.02

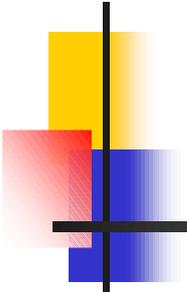
- **Strip Sample p13.02 CMT_9.20**

- Runs 167019 - 168033 (whatever was reconstructed with p13.02 as of Nov. 18)
- Number of Events processed: ~12.3M
- Number of Events in thumbstrip: ~2.2M
- data is in:

/rooms/kitchen/imperial/goussiou/p13.02

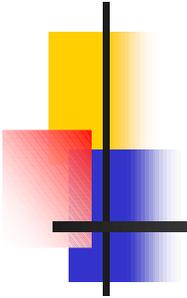
- **See full documentation at:**

<http://home.fnal.gov/~odell/D0/JES/StreamDataIndex.html>



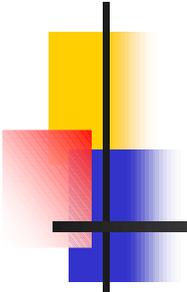
Bad Runs

- **Have not yet thumbized the bad run finder but...**
 - **QCD/JETMET groups have searched for bad runs using MET**
 - QCD selection criteria for good run are the following :
 - number of events in trigger JT_65TT at least 50
 - METC_x in interval $< -2.20474, 4.19006 >$
 - METC_y in interval $< -4.76697, 4.12735 >$
 - METC in interval $< 19.1038, 26.9058 >$
 - SETC in interval $< 242.382, 282.873 >$
 - Chi² fit for GoodJetPhi < 3



Results of "bad run" Finder

- **list of bad runs for p13.02 (CMT_9.20)**
 - 167020, 167021, 167092, 167094, 167098, 167099, 167100, 167255, 167256, 167262, 167284, 167285, 167286, 167340, 167805, 167808, 167881, 167883, 168022, 168023, 168024, 168030
- **Additional bad runs from Patrice Verdier (not sure what criteria he used):**
 - 167807, 168025, 168133

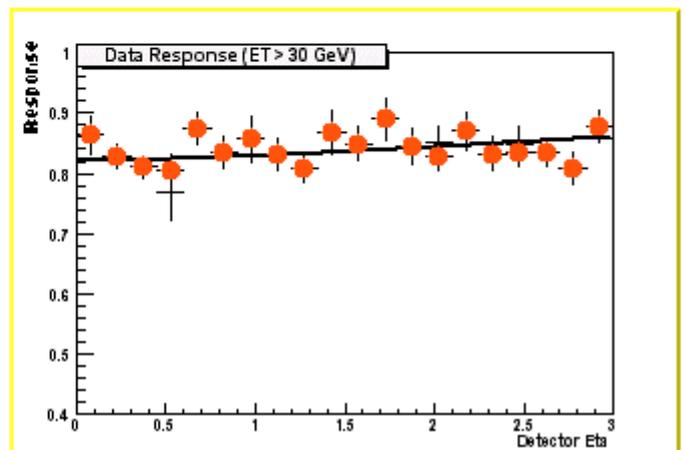
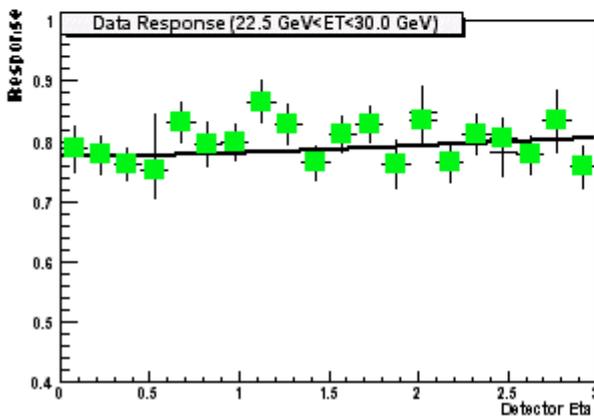
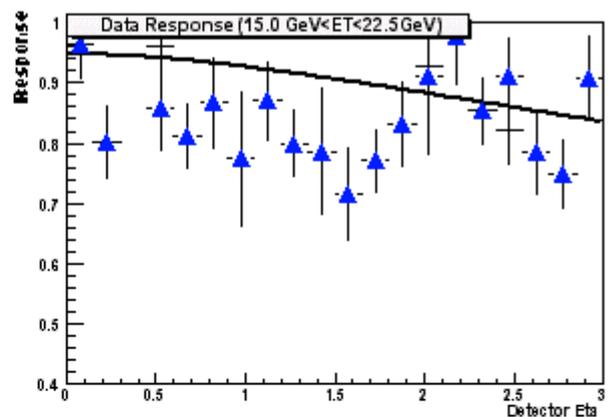


ICR correction for p13.02

- **ICR correction - usual analysis**
- **Only looked at CMT_8.41 data**
 - **Thumbnails are SLOOOOOOOOW**
 - **Hit with memory leak in thumbnail unpacker: use p13.04.00**
- **Noteable cuts**
 - **$|h| < 0.8$ for the photon**
 - **even though the L1 extends further, I did not want to use a photon in the ICR region. I should look at the photon $1.8 < |h| < 2.4$ separately (?)**
 - **NO EMSCALE CORRECTION**
 - **NO CRYO OFFSET CORRECTION**

ICR correction for p13.02

- Data Energy Bins with Cosh(E) fit overlaid



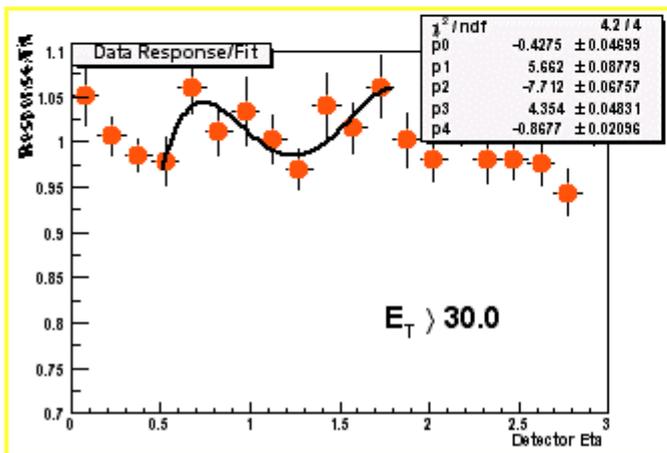
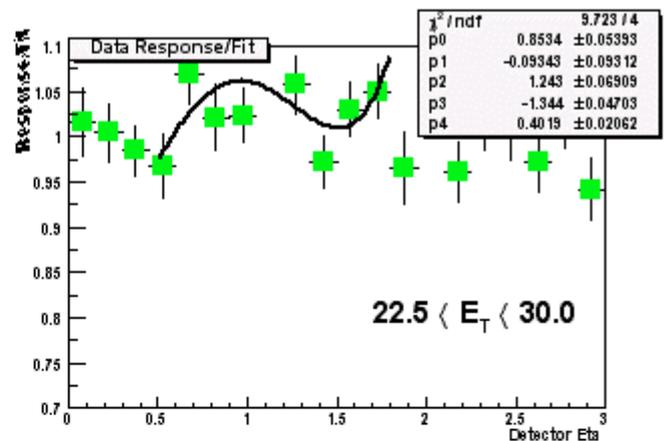
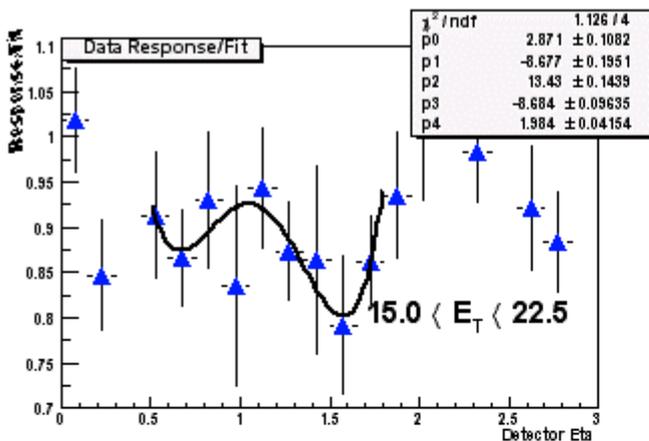
Dec. 4, 2002

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ICR correction for p13.02

- ICR correction - usual analysis

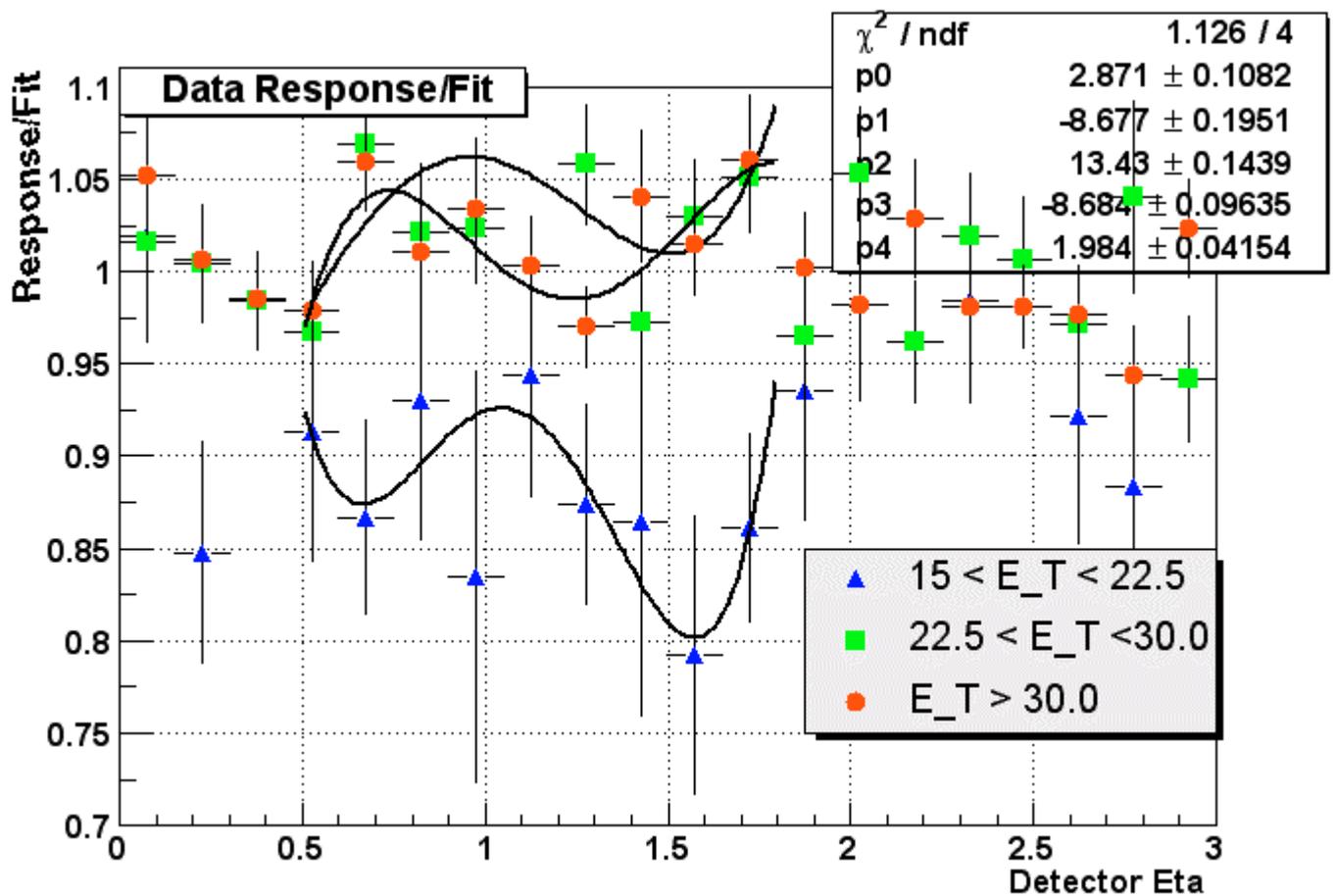


Dec. 4, 2002

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ICR correction for p13.02

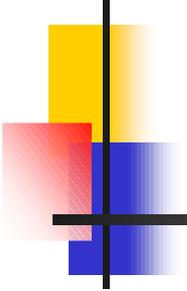
■ ICR correction - usual analysis



Dec. 4, 2002

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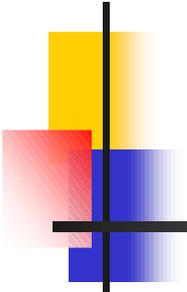
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ICR correction ?

What's wrong? (or is it?)

- **Weights changed for ICD - but that shouldn't do all this (?)**
 - Looking at energy fraction in ICR gap detectors - for p13.02 is all basically zero? Bug in my code? Bug in thumbnail?
- **Need to do more checking to understand what's going on**



ICR correction - Next Steps

Wrapup "the usual analysis"

- Badrun list for CMT_8.41
- Run over all data (CMT_9.20 too)
- Need EMScale correction for p13.02
- Need JetCor with cryo/offsets for p13.02

Refinements

- Look at correcting the ICR region by correcting ICD/ECMG/CCMG separately
- Need p13.02 MC!
- Would like to work on MIP studies in gap detectors