

- I looked at the effect of the timing cut on 2011 data.
- Used 2 datasets:

/MinimumBias/Run2011A-PromptReco-v4/RECO

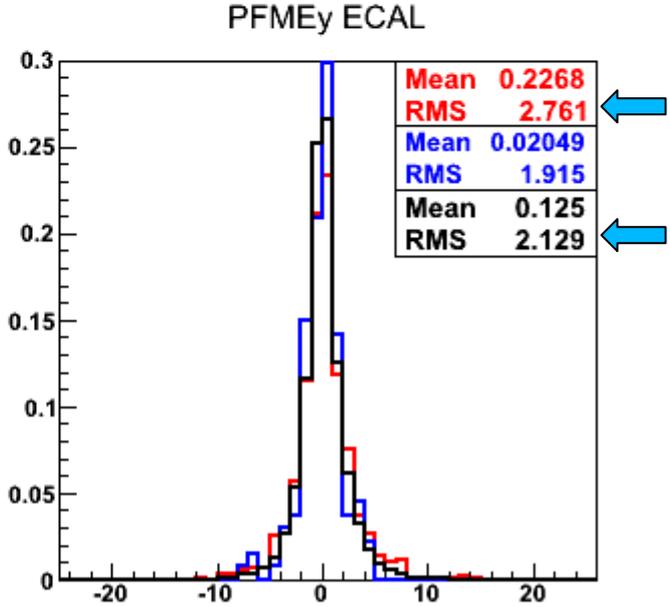
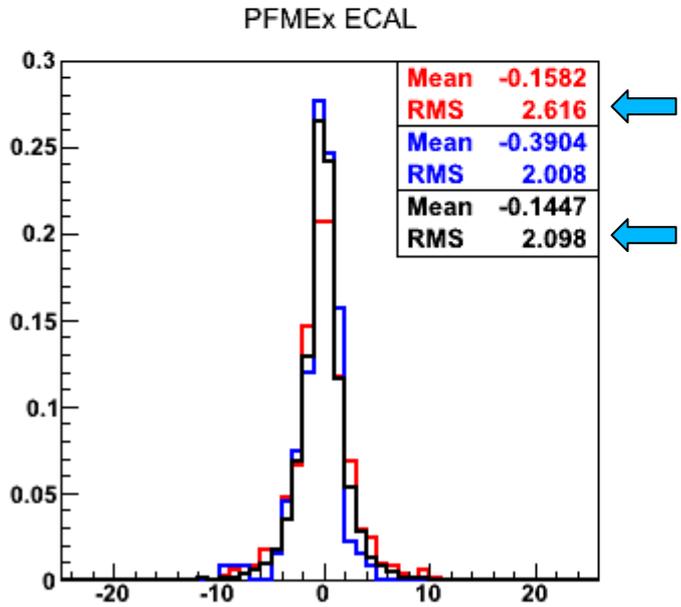
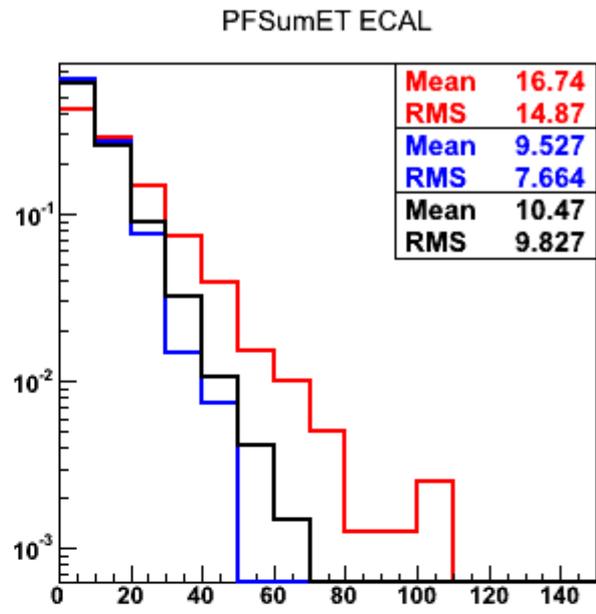
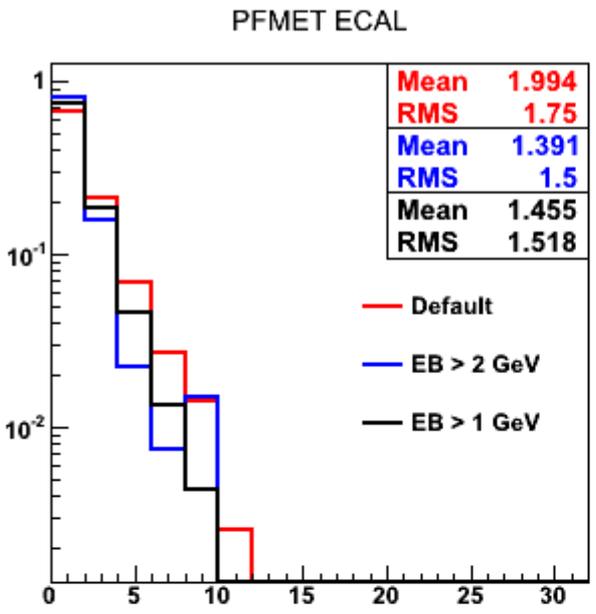
/Jet/Run2011A-PromptReco-v6/RECO

- For the /Jet/ dataset used a un-prescaled trigger, namely HLT_Jet300

• *These are **not** the very high PU dataset (which were taken after mid August)*

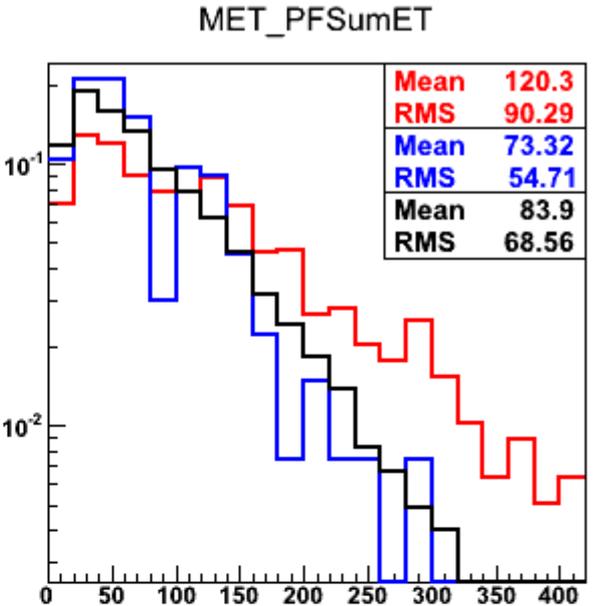
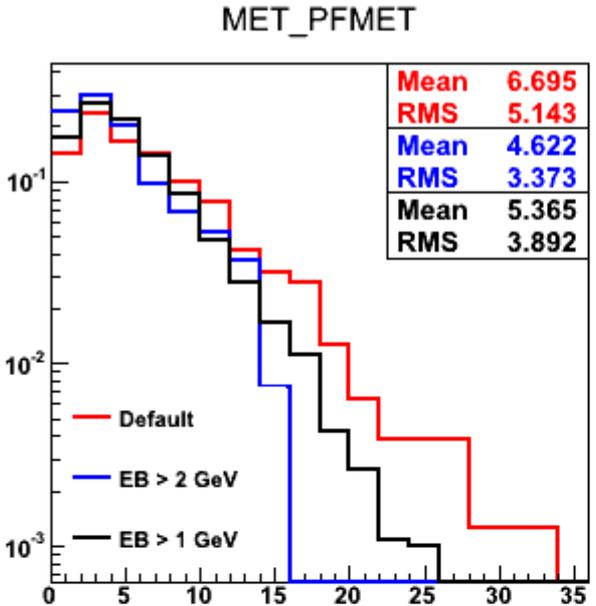
Effect of timing cut on PFMet in Ecal (2011 data, /MinBias/)

PFMet in ECal

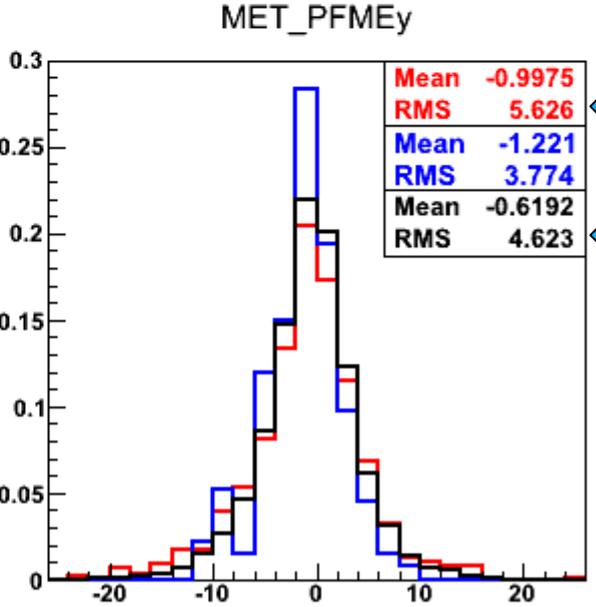
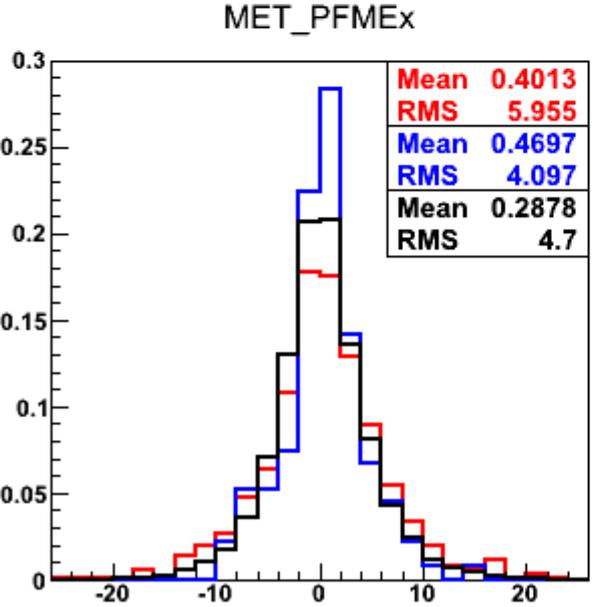


Effect of timing cut on PFMet in Ecal (2011 data, /MinBias/)

PFMet (Total)



Reduction in Met tail with timing cut

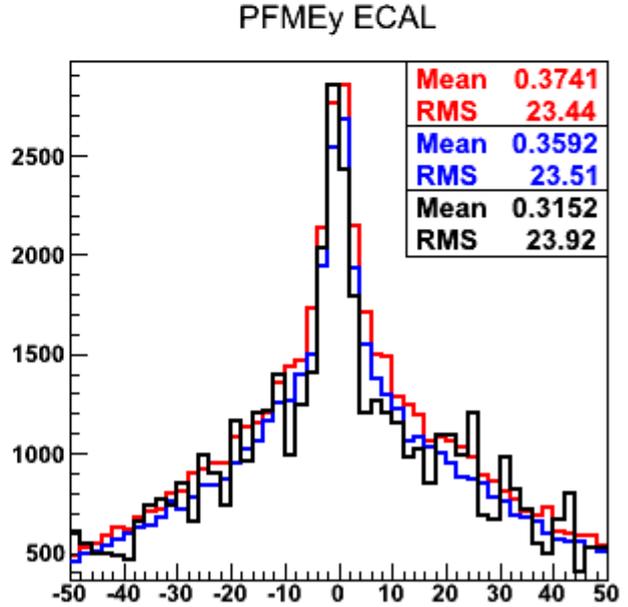
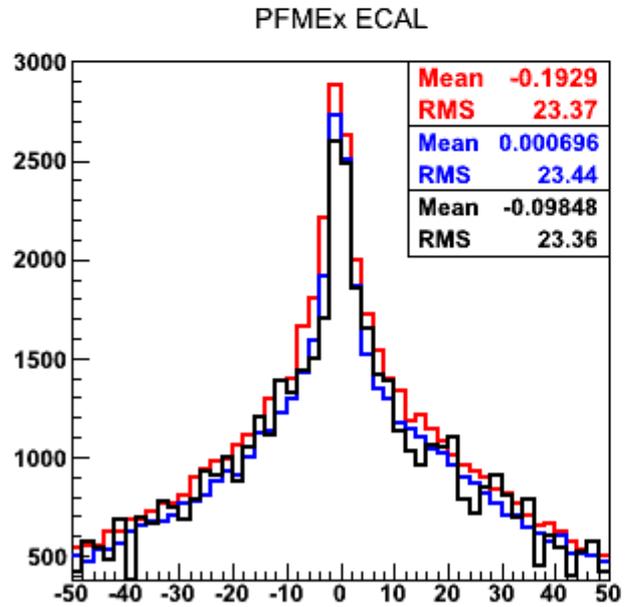
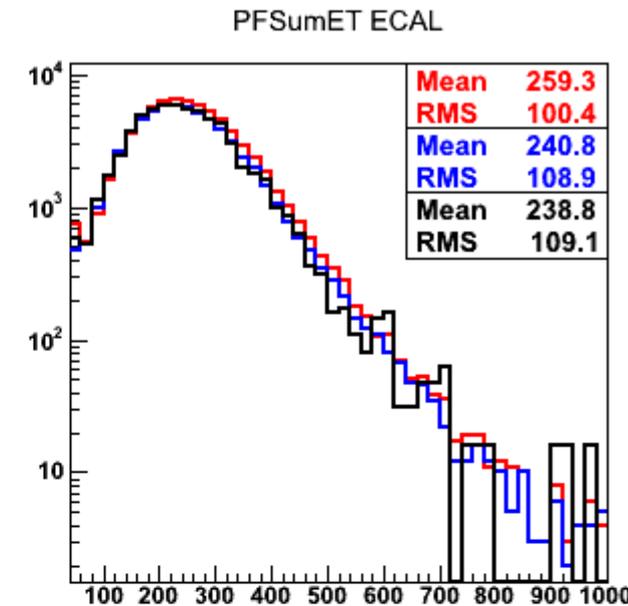
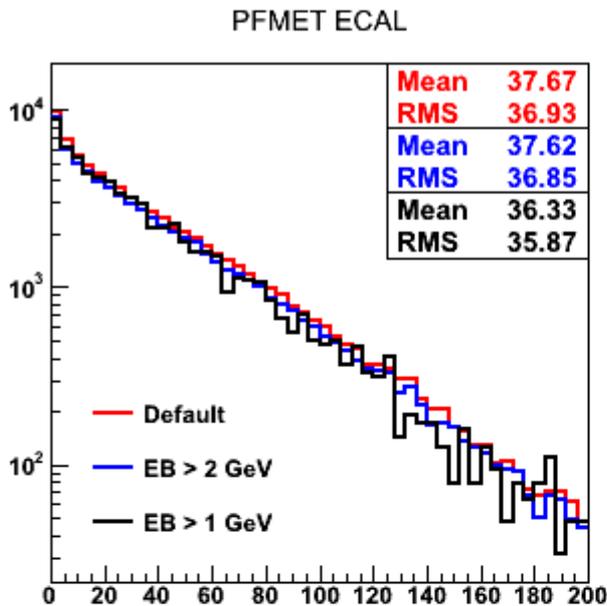


Met resolution better with timing cut

Effect of timing cut on PFMet in Ecal (2011 data, /Jet/)

with HLT_Jet300 trigger

PFMet in ECal

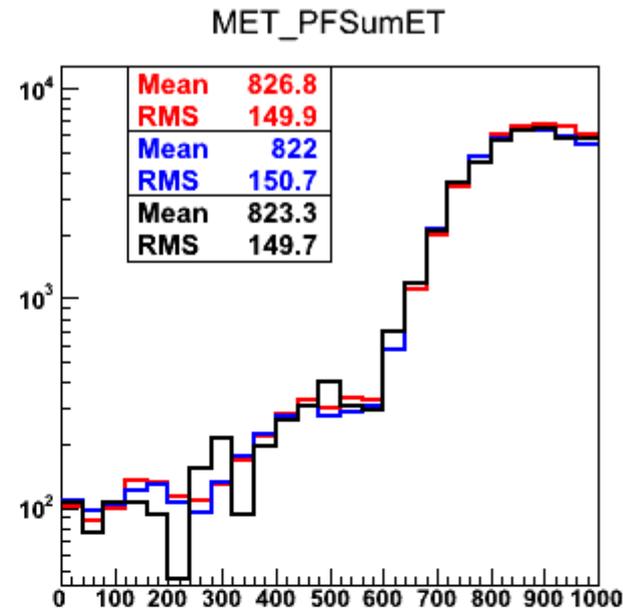
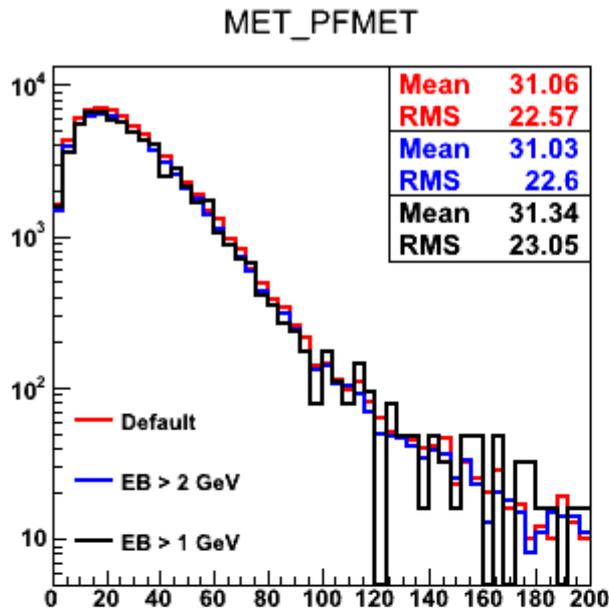


□ /Jet/ dataset due to the high trigger chosen does not show the improvement significantly after application of the timing cut

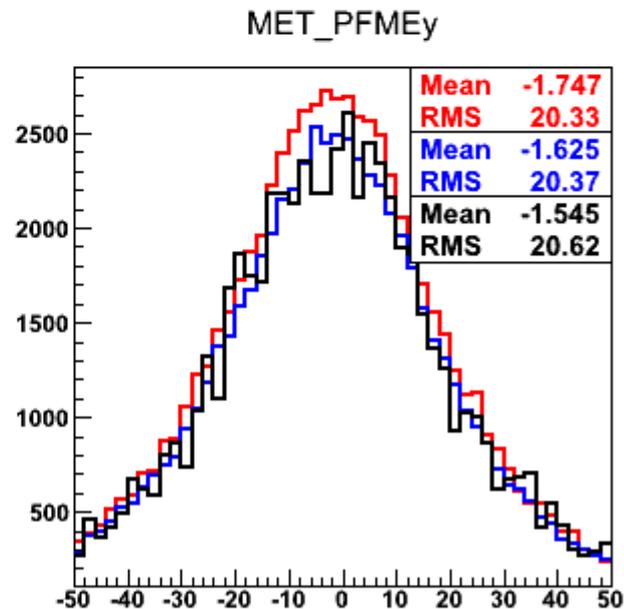
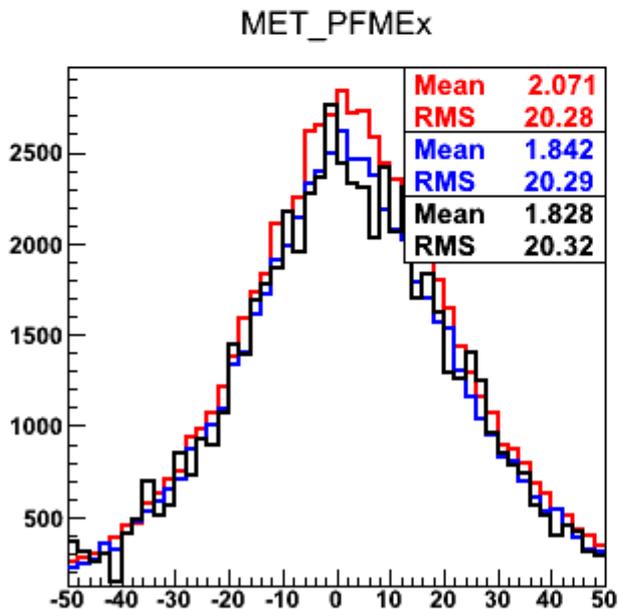
Effect of timing cut on PFMet (2011 data, /Jet/)

with HLT_Jet300
trigger

PFMet (Total)



(sorry, went out of range that I defined while booking the histogram, This is due to using high jet trigger)



Conclusion (from data)

- Very similar observation