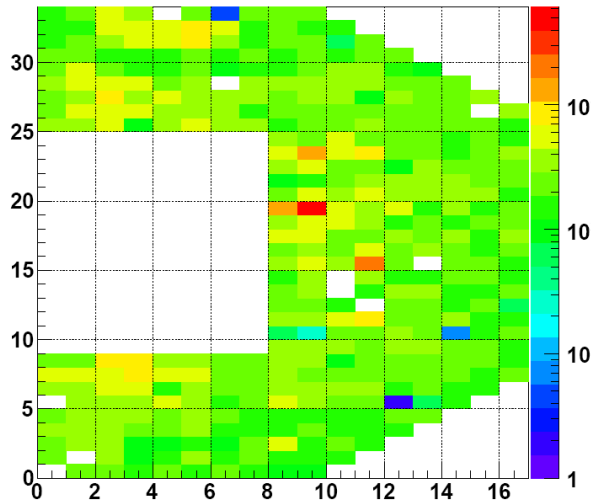


Report of Run 11 data taken on Feb 19 from ~4:30 AM to ~6:00 AM

Runs 12050034-12050039

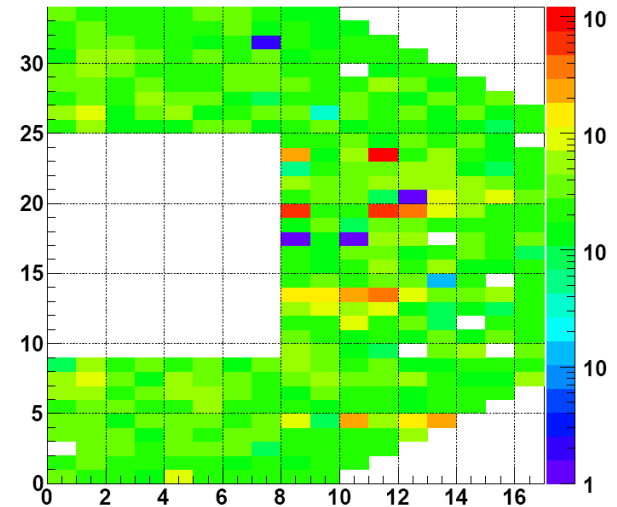
ADC count rate for a sample of data in this period is shown. (We are waiting for an access to repair a problem with 16 channels in Small South!)

LNLave



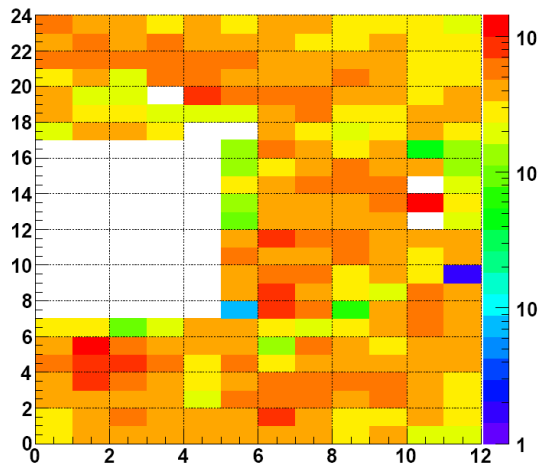
Sat Feb 19 05:17:39 2011

LSLave



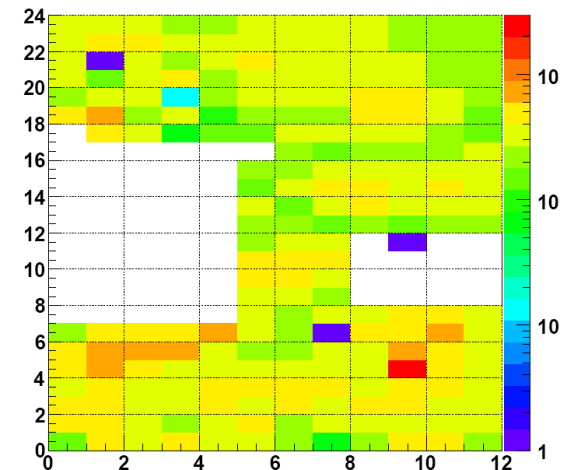
Sat Feb 19 05:17:40 2011

SNLave



Sat Feb 19 05:17:56 2011

SSLave



Sat Feb 19 05:18:04 2011

Blk:NL Red:SL Grn:NS Blue:SS

PtNL

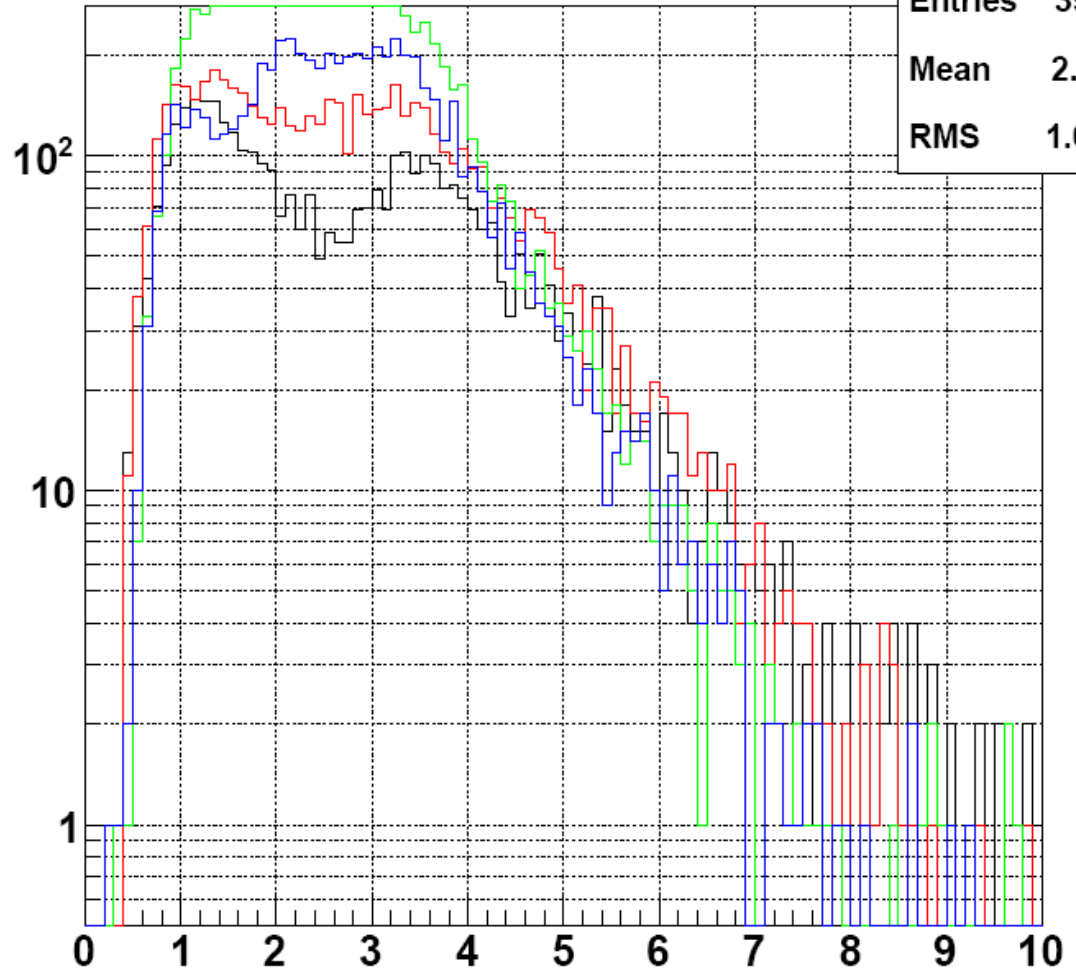
Entries	3959
Mean	2.811
RMS	1.614

The data is analyzed to find clusters of photon candidates within a cone. The highest mass pair of photon like clusters is then considered here as a photon pair candidate.

These plots involve low mass pairs, the actual cut is $M_{12} < 0.2$ GeV. The four colors represent events for which more than $\frac{1}{2}$ of the energy seen in the event comes from one of:

FMS- NorthLarge; SouthLarge;
NorthSmall; SouthSmall;

This is the pt distribution these photon pair candidates.

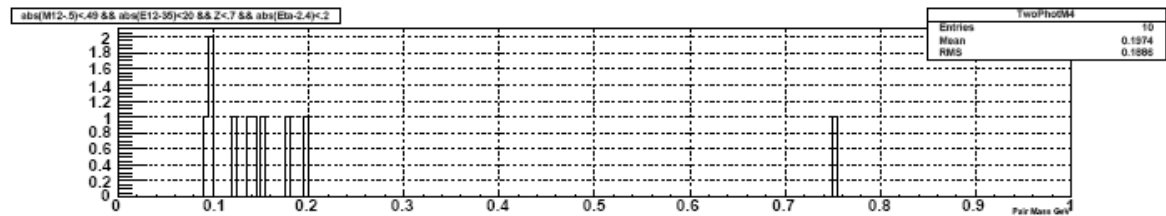
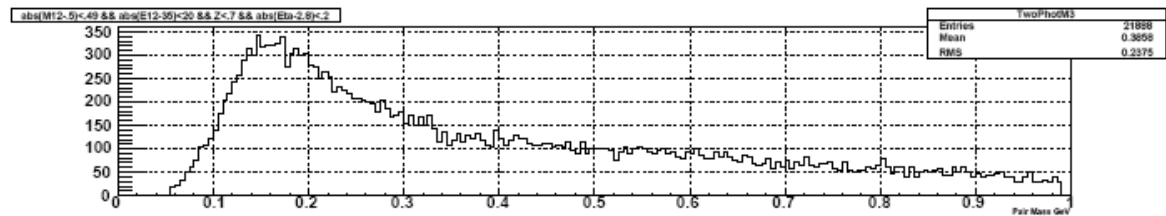
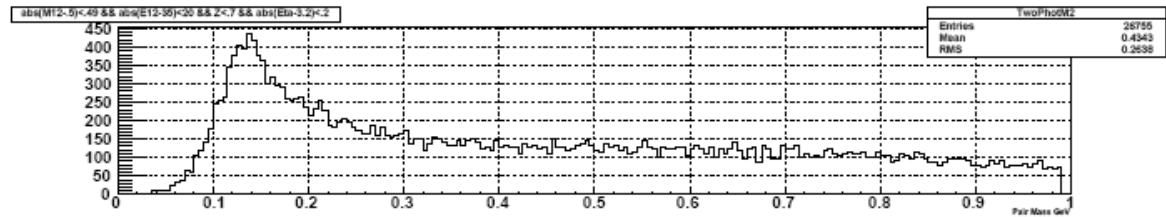
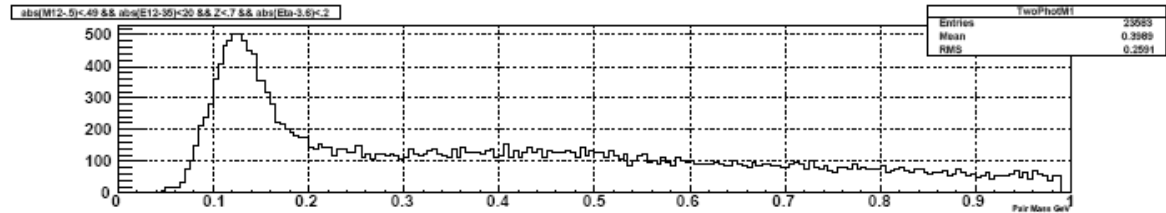
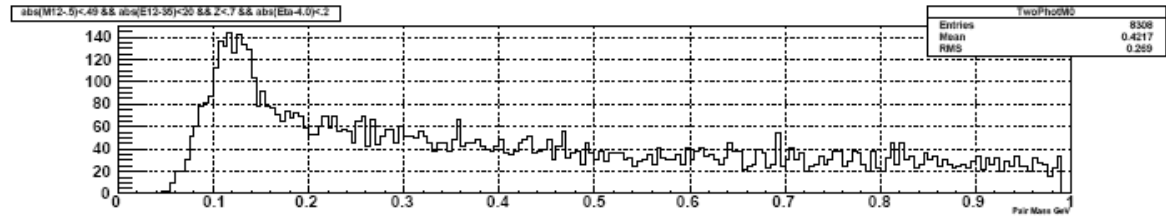


This shows the π^0 mass peaks for pseudo rapidity bins of width ± 0.2 at

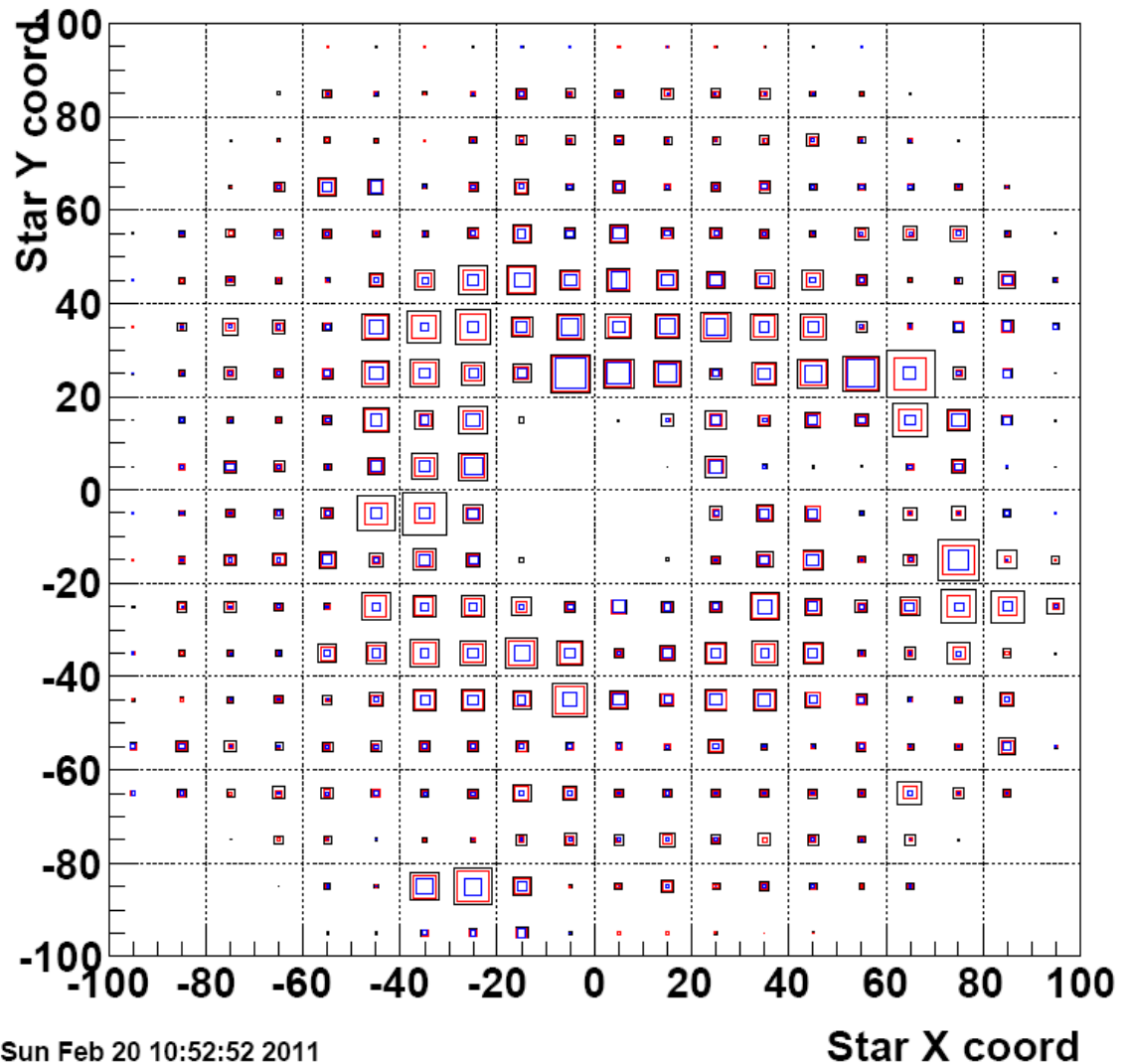
$$Y = \{4.0, 3.6, 3.2, 2.8, 2.4\}$$

The calibration corrections were based on an earlier run.

Note the calibration is not great as indicated by the fat large cell peaks. This should improve with calibration iterations.



Y vs X Pair(Blk:E>20 Red:E>40 Blue:E>60)



Sun Feb 20 10:52:52 2011

This shows where the triggers are coming from from a low mass photon pair perspective.

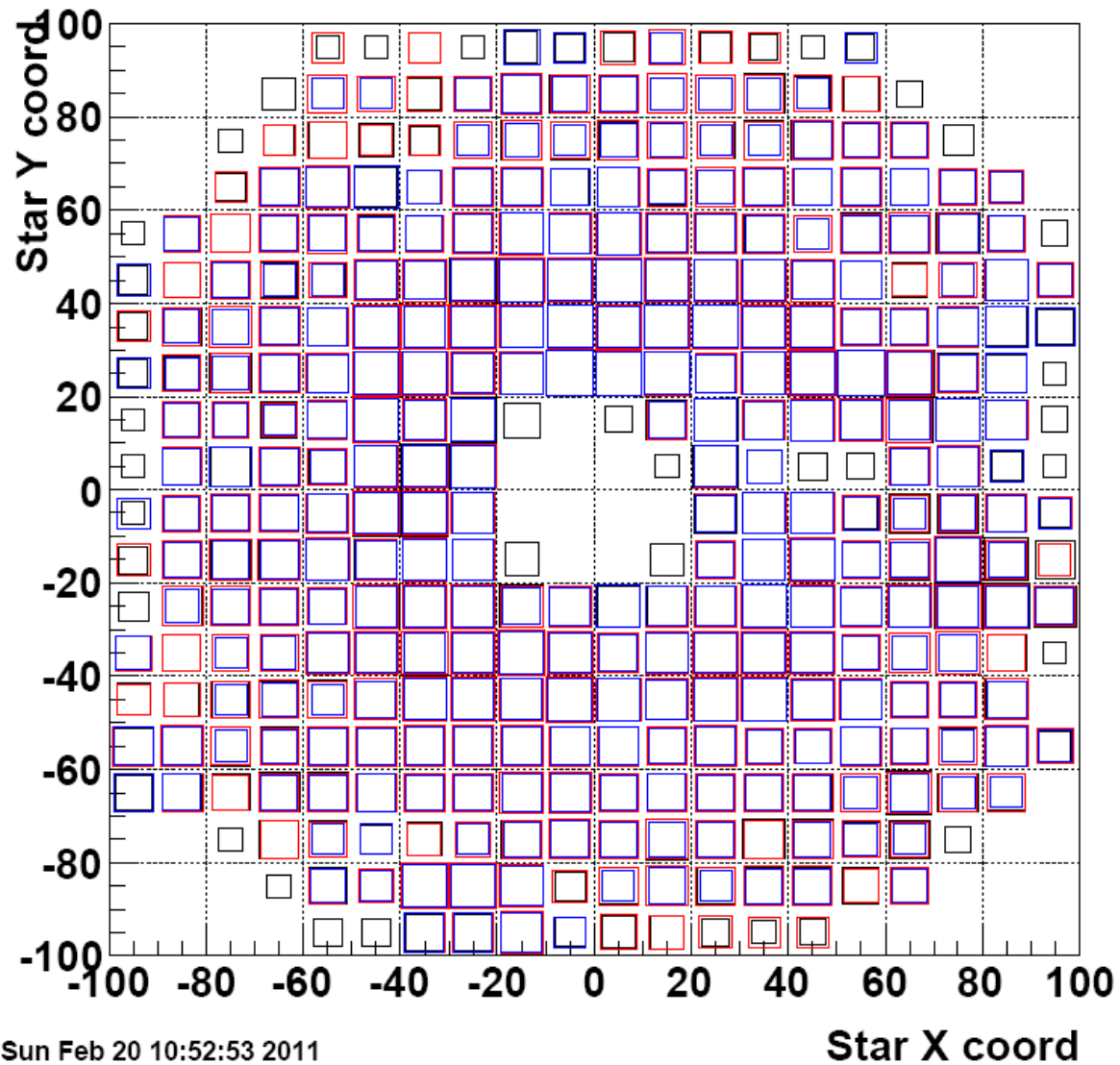
What is plotted is the location of the two photon location for three energy cuts

E>20 GeV

E>40 GeV

E>60 GeV

Y vs X Pair(Blk:E>20 Red:E>40 Blue:E>60)



Log Scale in box size
This shows where the triggers are coming from from a low mass photon pair perspective.

What is plotted is the location of the two photon location for three energy cuts
 $E > 20$ GeV
 $E > 40$ GeV
 $E > 60$ GeV

The Eta Meson (within this cluster pair cut).

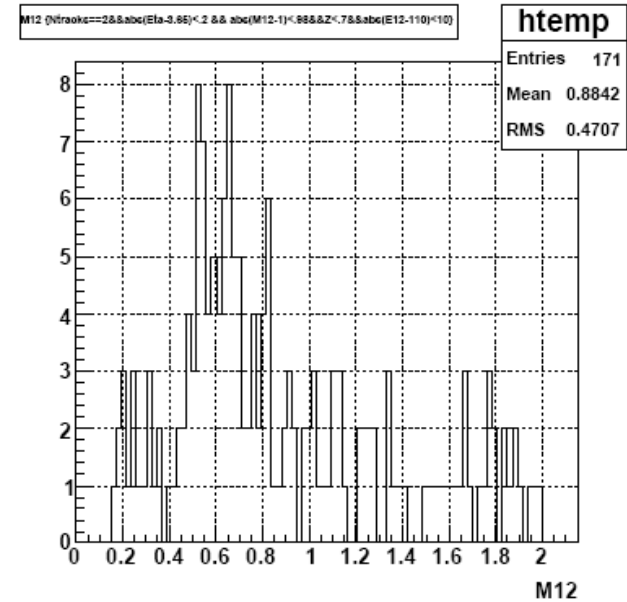
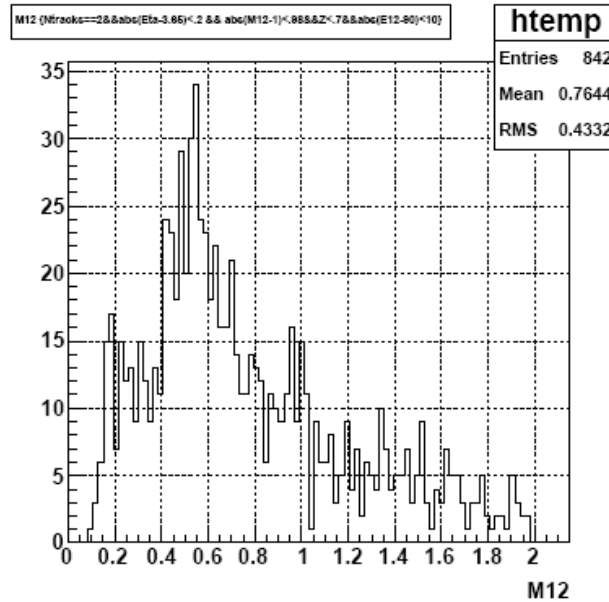
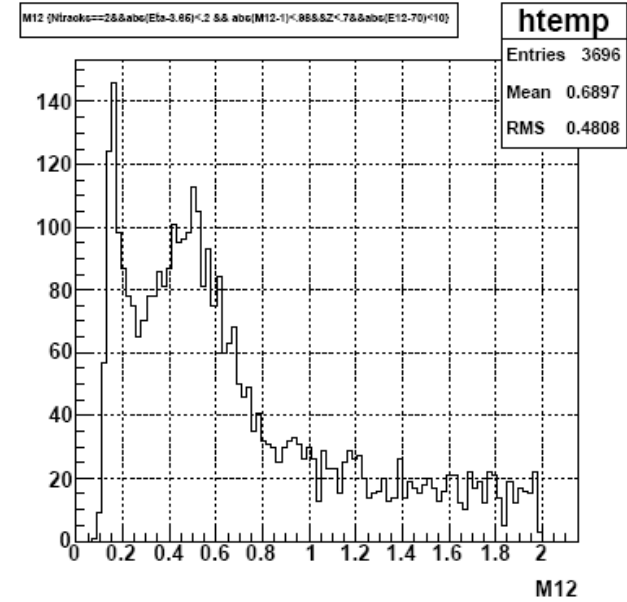
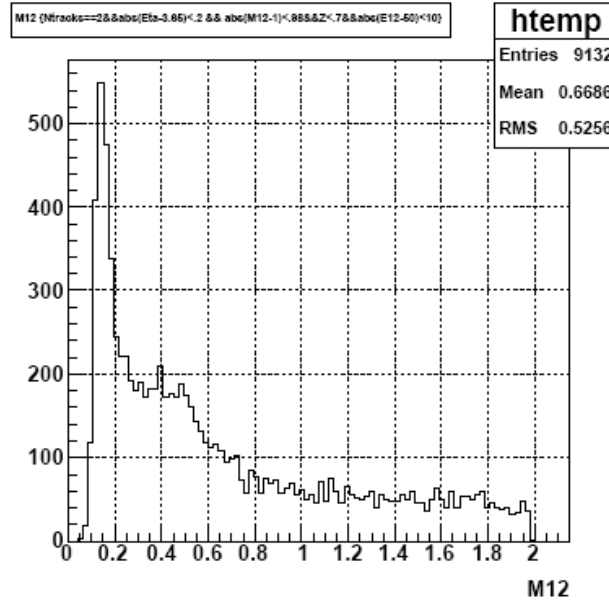
These data are selected to have

A) 2 tracks in the cluster pseudo rapidity in the range

B) $3.35 < Y < 3.85$

C) $Z < 0.7$

D) Energy cuts of
(40-60) GeV
(60-80) GeV
(80-100) GeV
(100-120) GeV

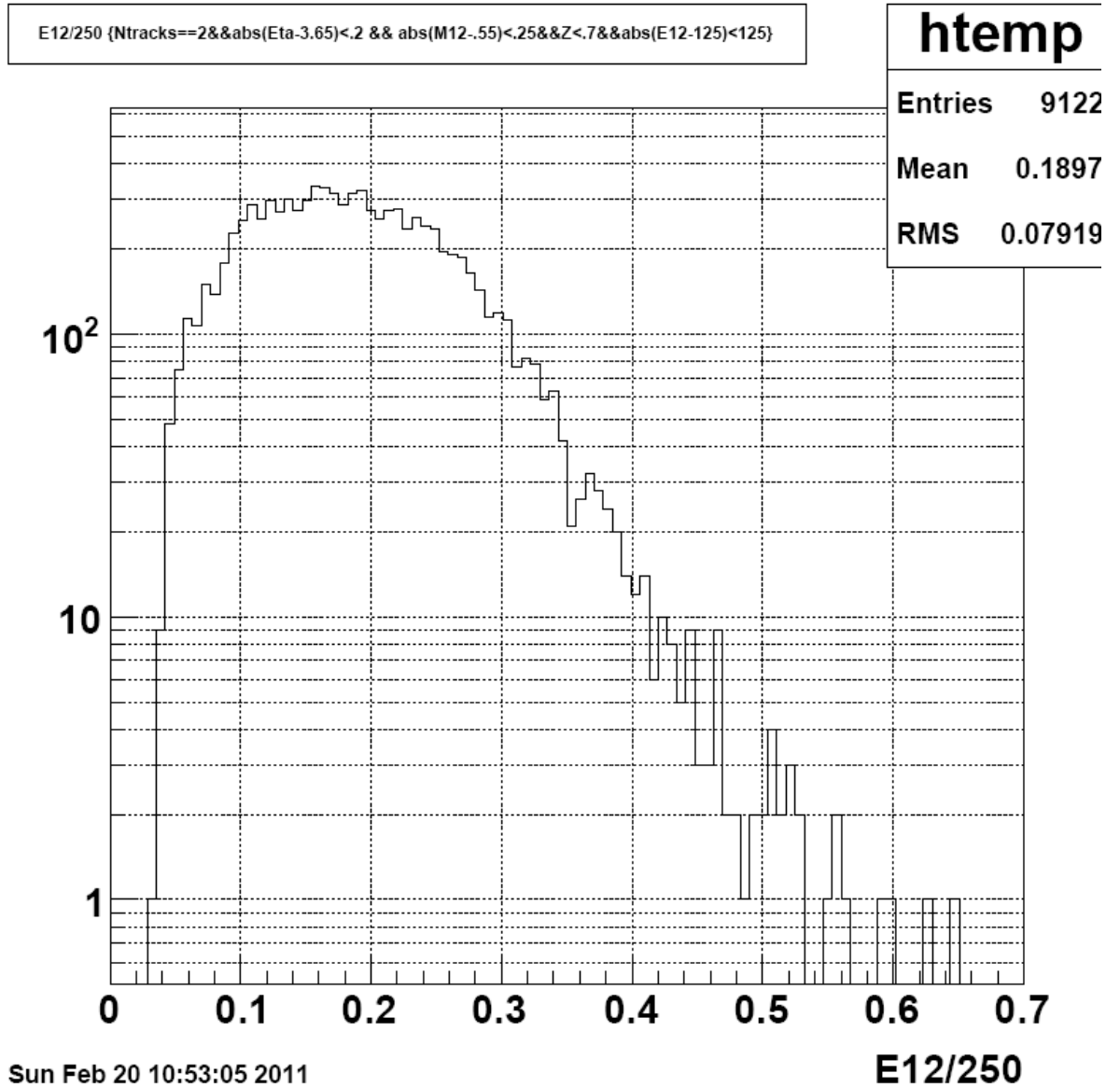


The Feynman X distribution for events with 2 photons clusters in the Eta meson region.

$.35 < M_{\text{pair}} < .75$

$3.45 < Y < 3.85$

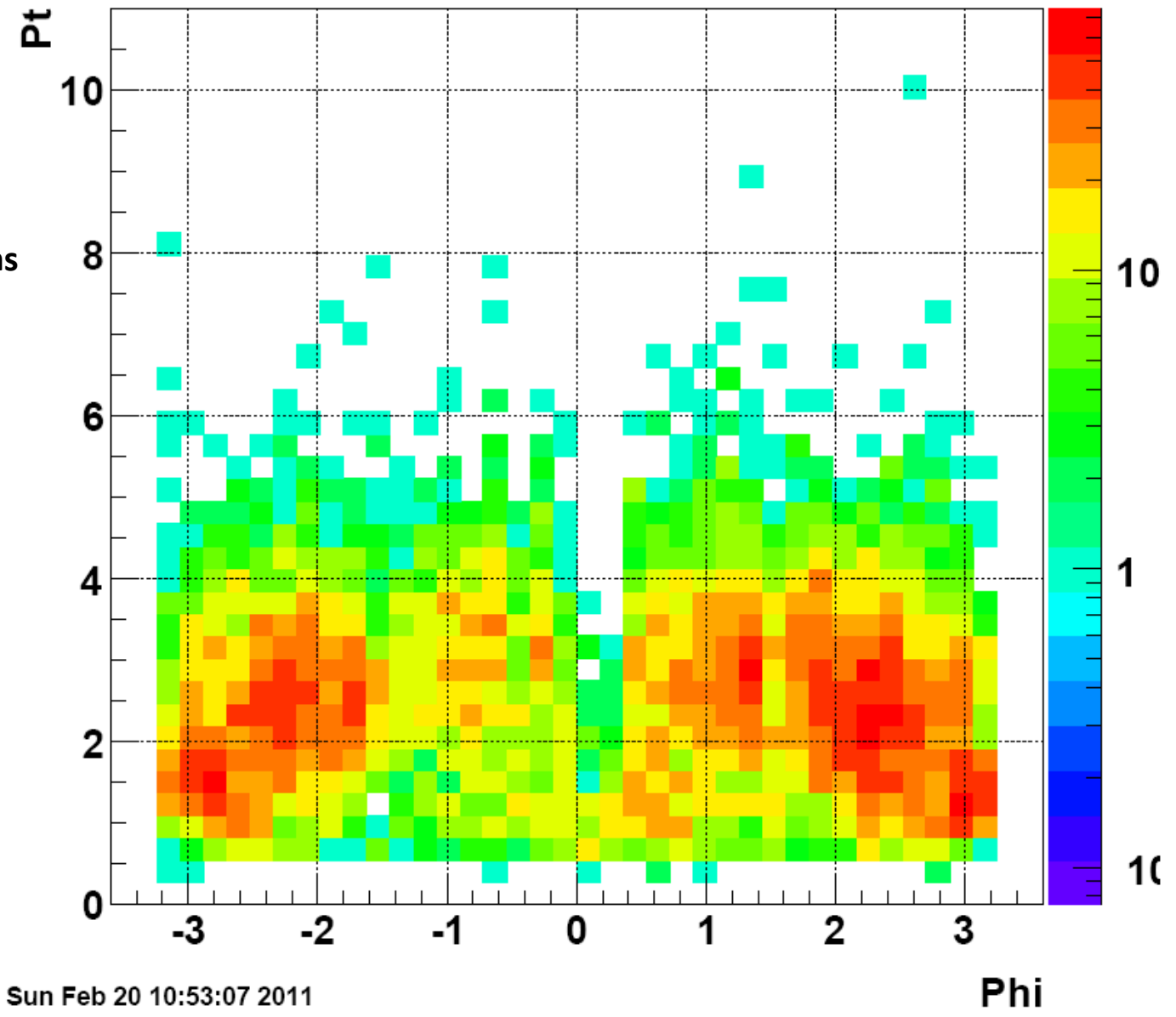
$Z < .7$



Pt:Phi {Ntracks==2&&abs(Eta-3.65)<.2 && abs(M12-.55)<.25&&Z<.7&&abs(Pt-10)<10}

The Pt vs Phi distribution
for events with 2 photons
clusters in the Eta meson
region.
(Note: This is Pt of pair
and Phi of Pair)

.35<Mpair<.75
3.45 < Y < 3.85
Z<.7



Pt:Eta {Ntracks==2&&abs(Eta-3.5)<.7 && abs(M12-.55)<.25&&Z<.7&&abs(Pt-10)<10}

The Pt vs Y distribution for events with 2 photon clusters in the Eta meson region.

(Note: This is Pt of pair and Y of Pair)

$.35 < M_{\text{pair}} < .75$

$Z < .7$

