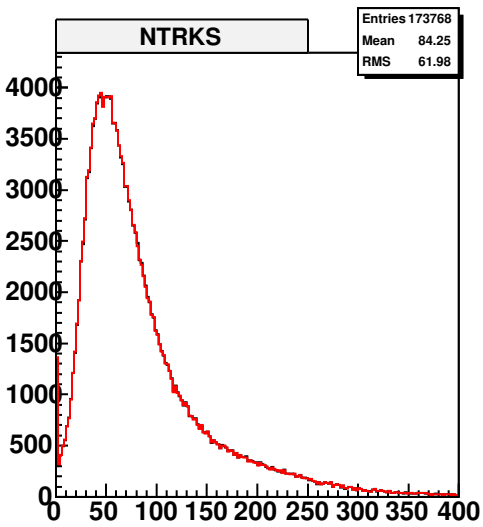
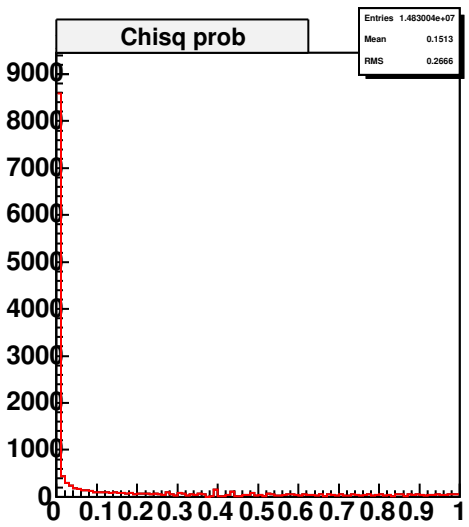
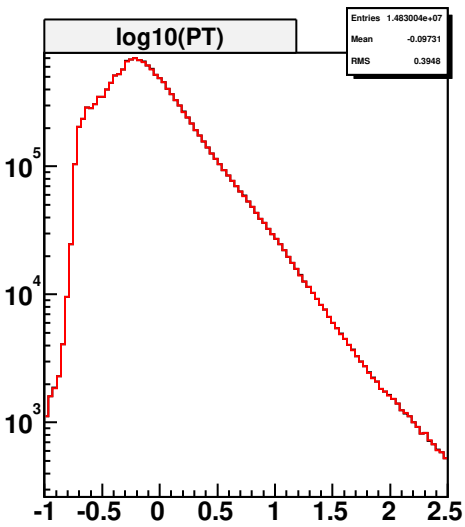
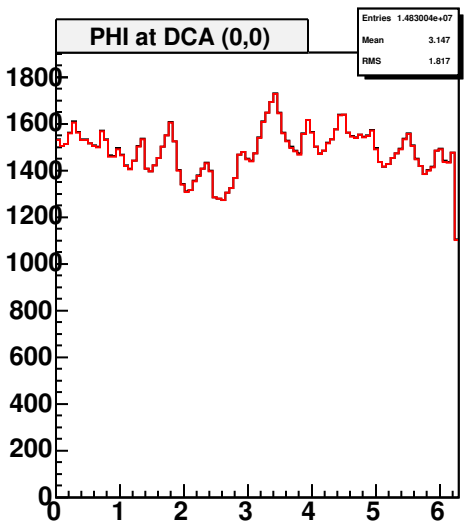
# ccin2p3.root

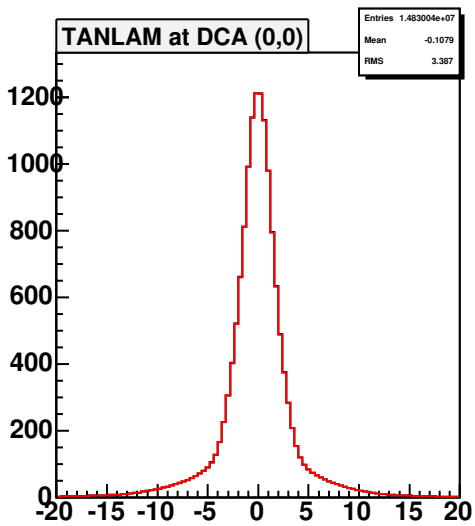
# edg.root

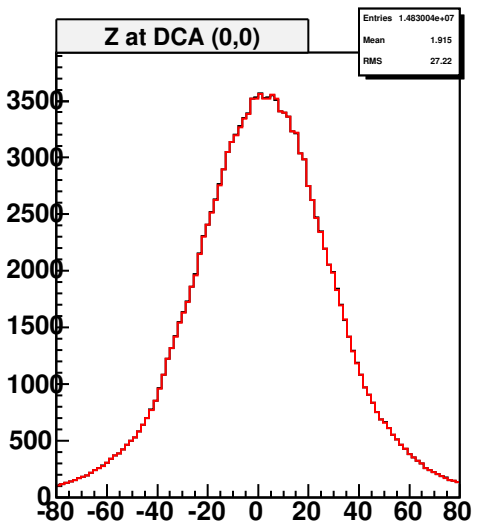

NTRKS
Entries 173768
Mean 84.25
RMS 61.98

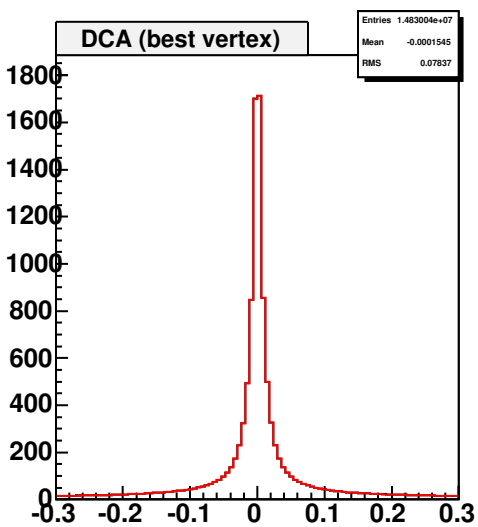

Chisq prob
Entries 1.483004e+07
Mean 0.1513
RMS 0.2666

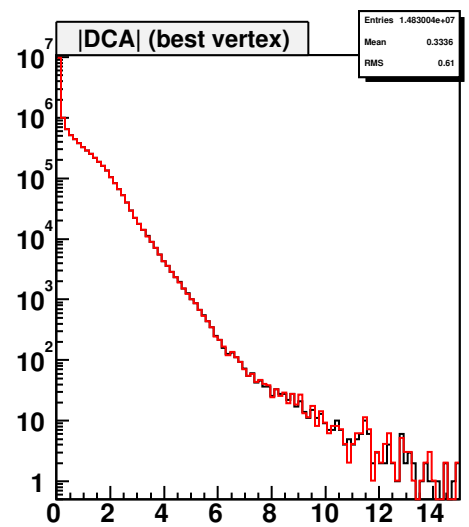

log10(PT)
Entries 1.483004e+07
Mean -0.09731
RMS 0.3948

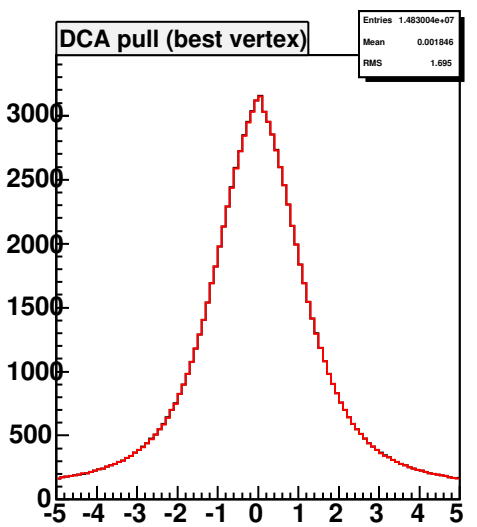

PHI at DCA (0,0)
Entries 1.483004e+07
Mean 3.147
RMS 1.817


TANLAM at DCA (0,0)
Entries 1.483004e+07
Mean -0.1079
RMS 3.387

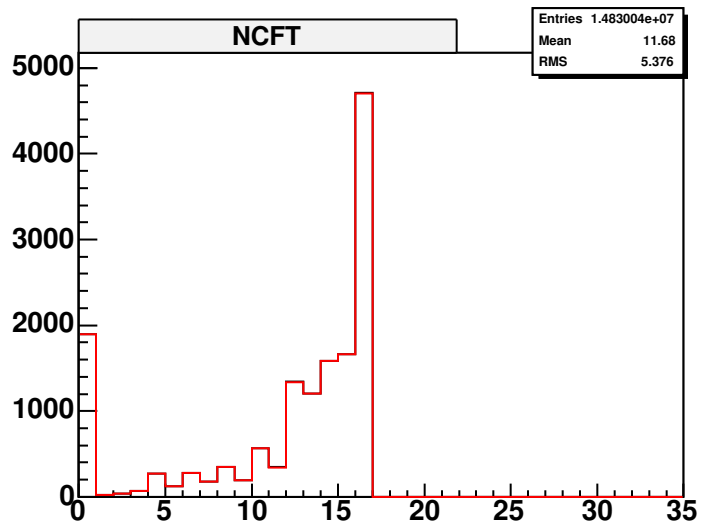

Z at DCA (0,0)
Entries 1.483004e+07
Mean 1.915
RMS 27.22

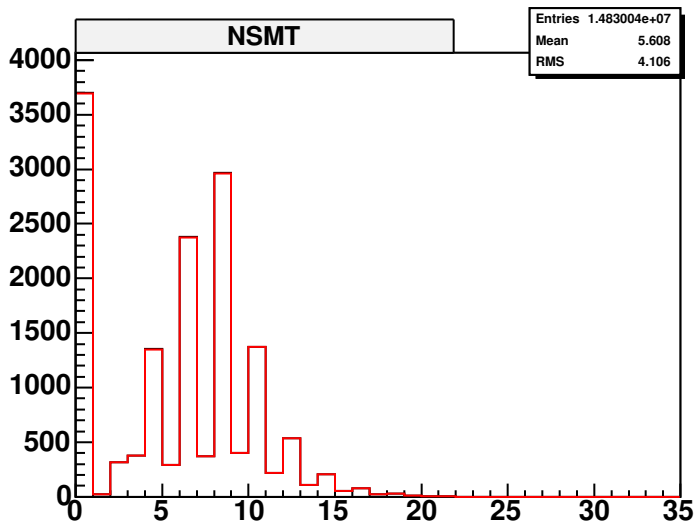

DCA (best vertex)
Entries 1.483004e+07
Mean -0.0001545
RMS 0.07837

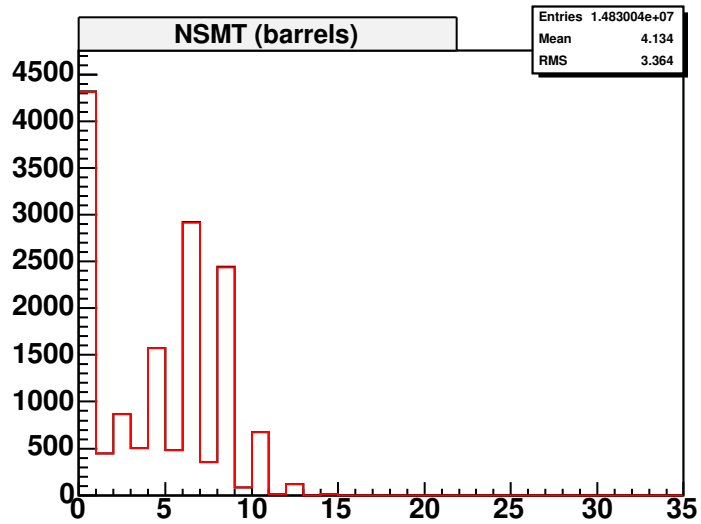

|DCA| (best vertex)
Entries 1.483004e+07
Mean 0.3336
RMS 0.61

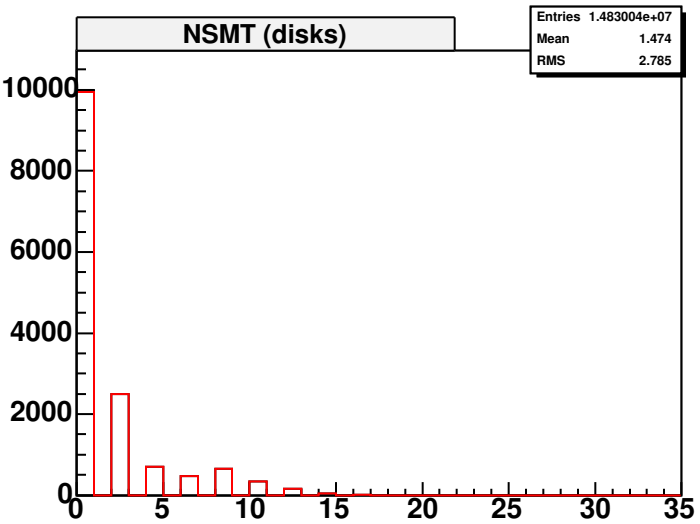

DCA pull (best vertex)
Entries 1.483004e+07
Mean 0.001846
RMS 1.695

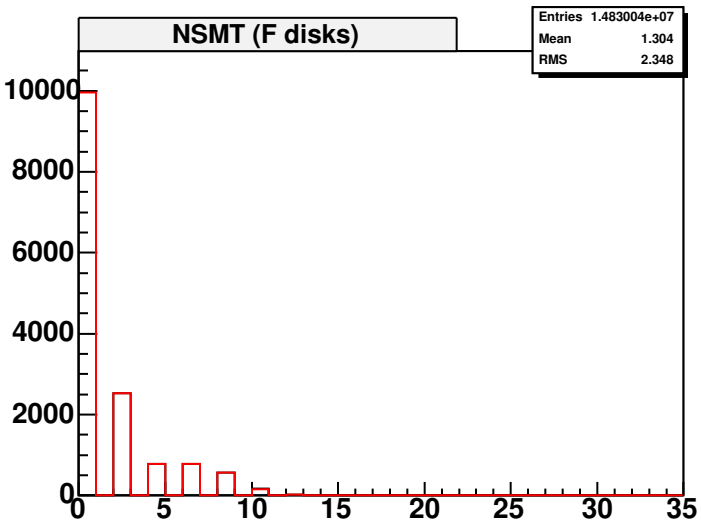
**Tracks (All)**

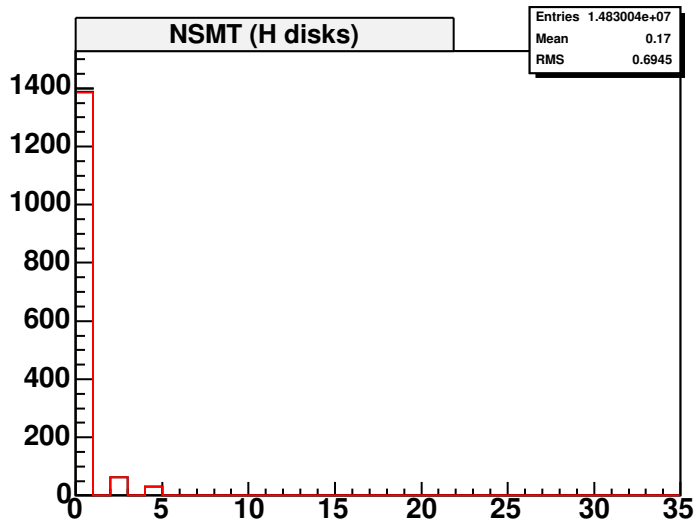


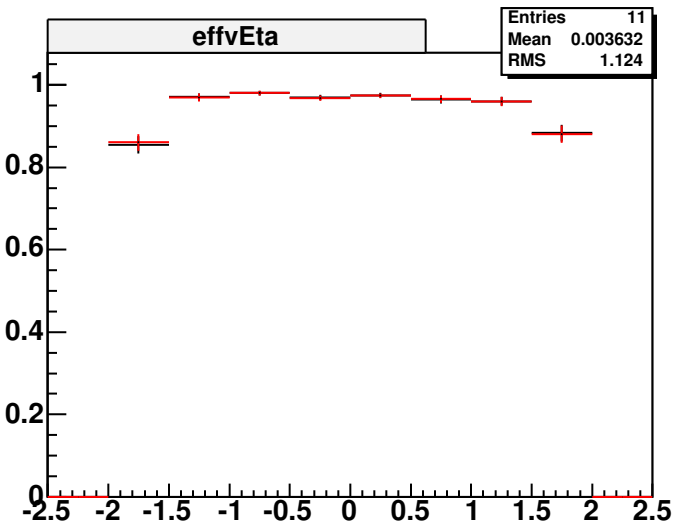



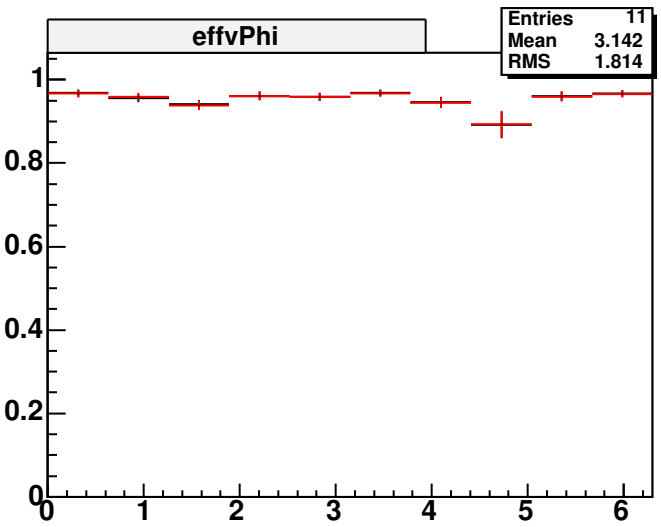



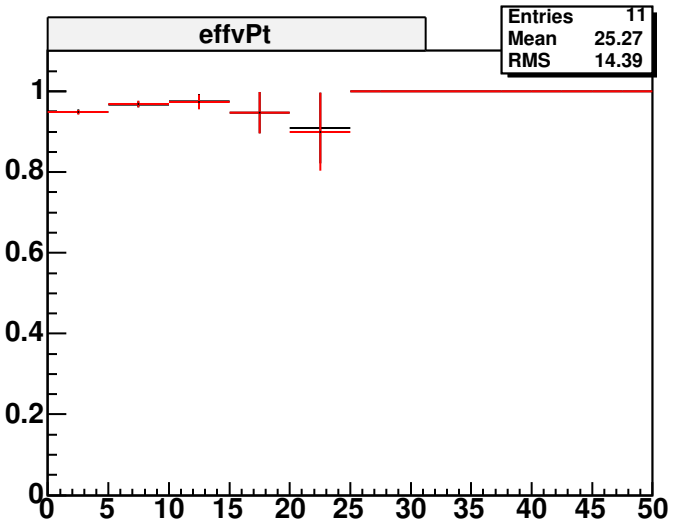



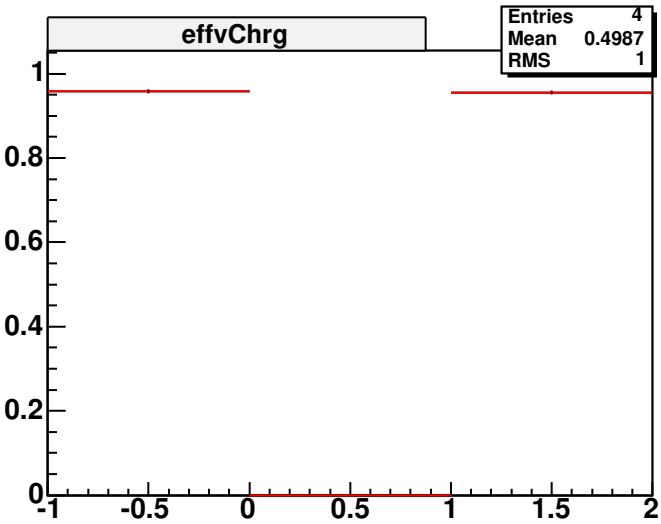



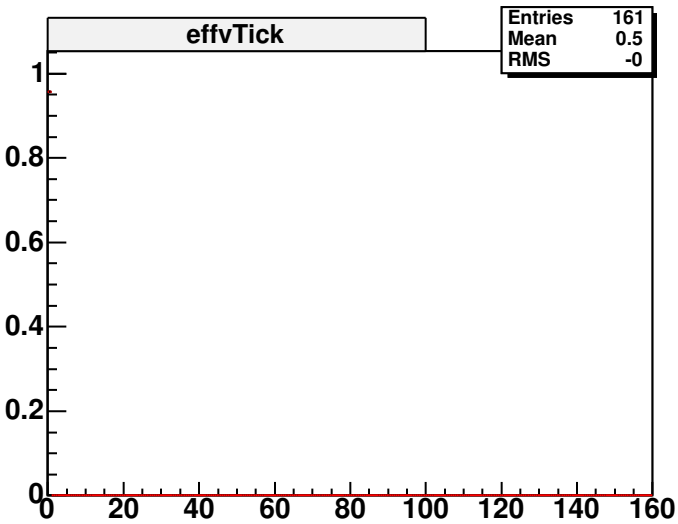

**Track Hits (All)**

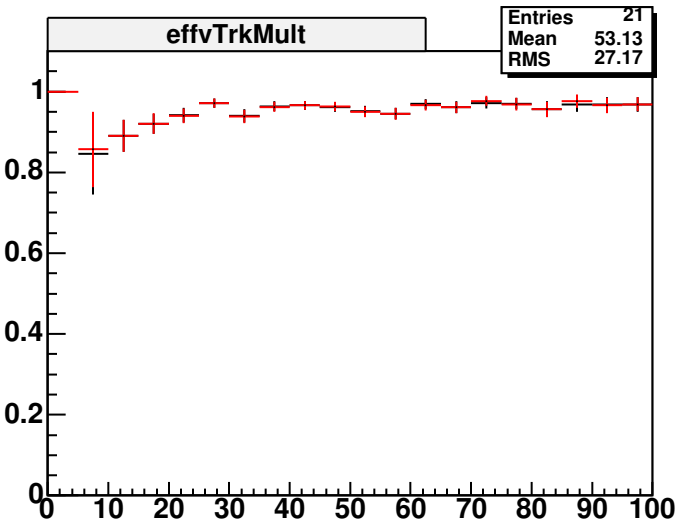


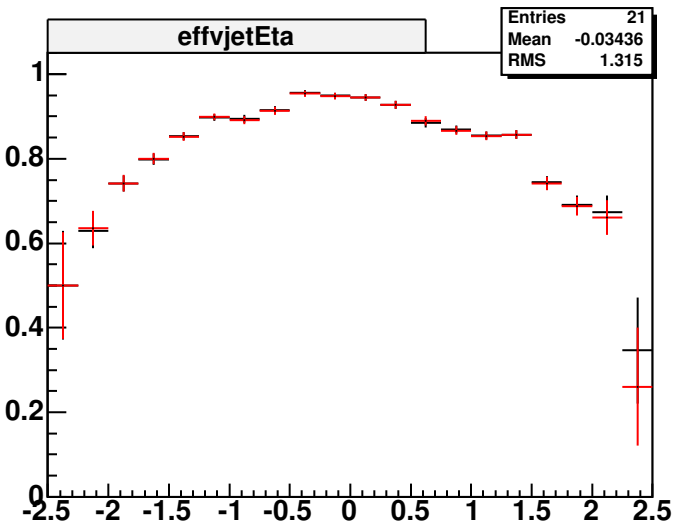



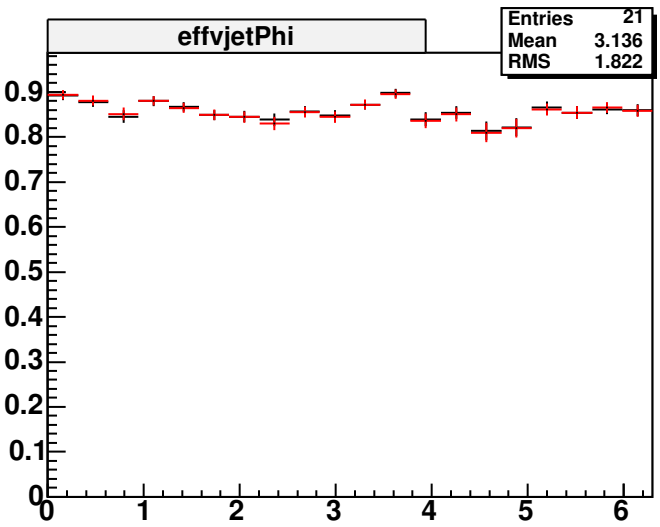



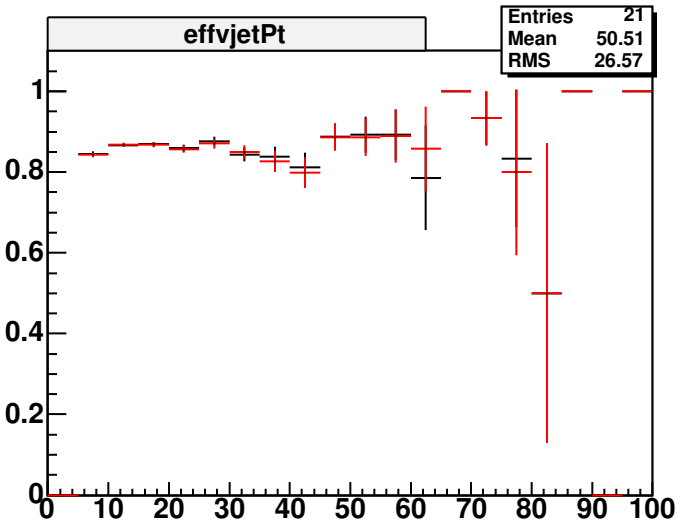



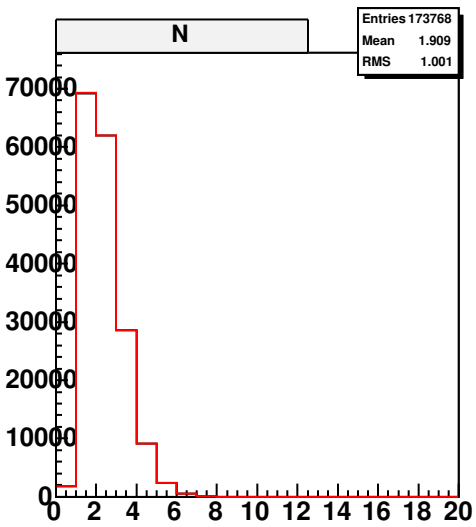

**Tracking (Efficiency-Isolated)**

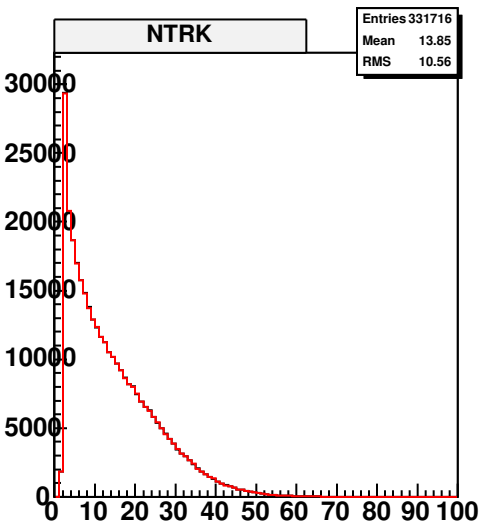


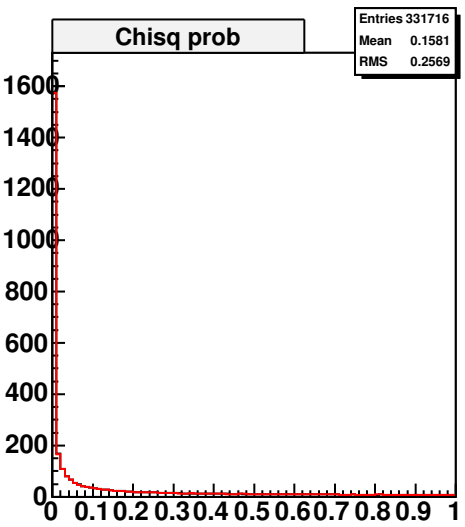



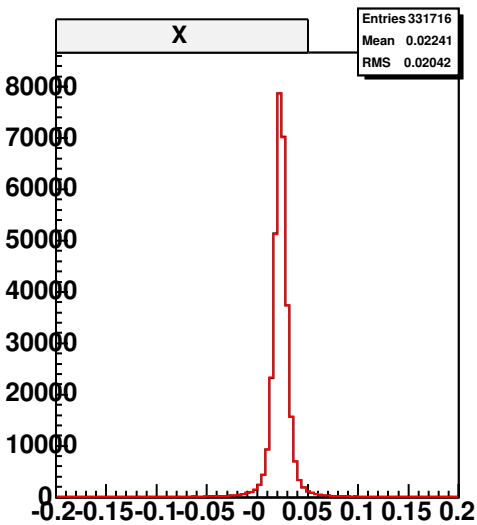



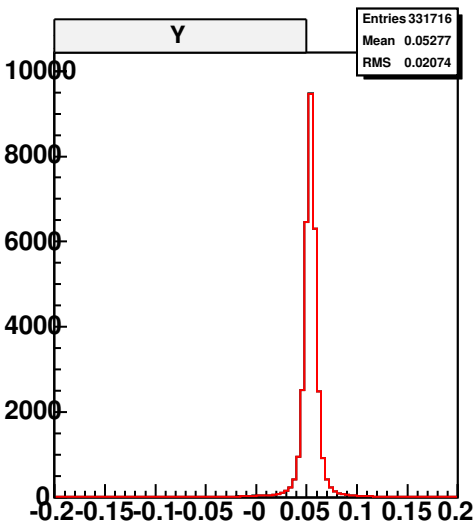

**Tracking (Efficiency-InJets)**

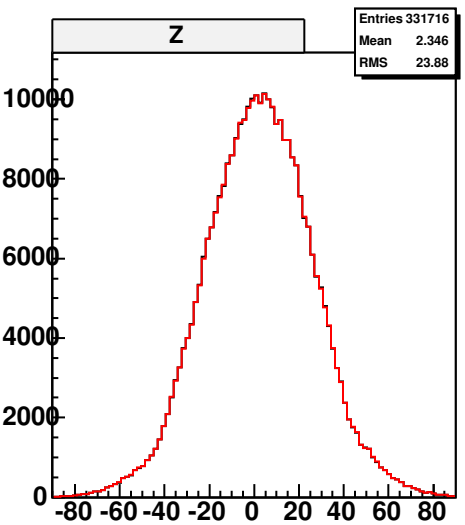


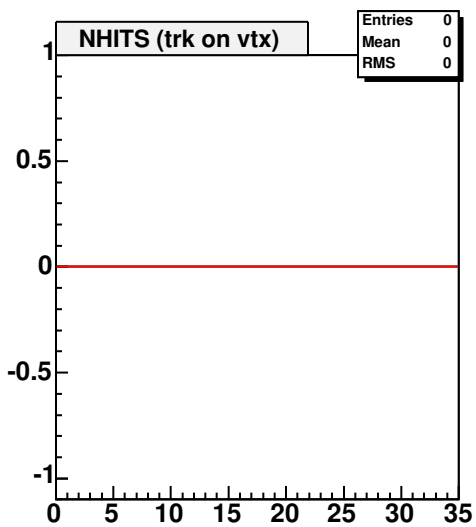



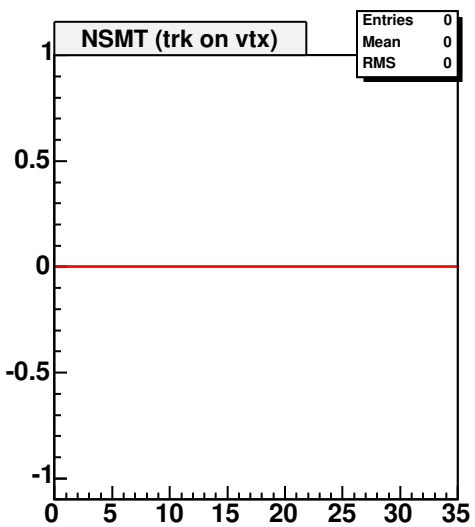



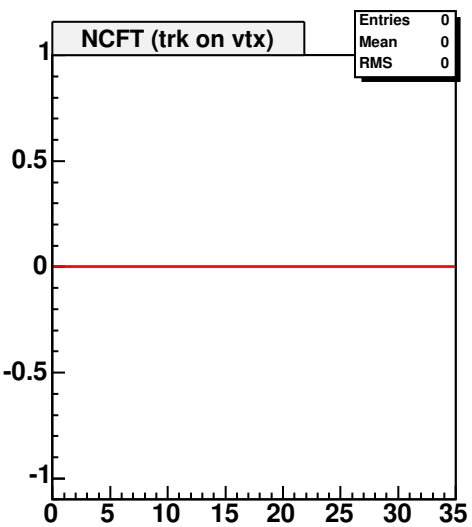



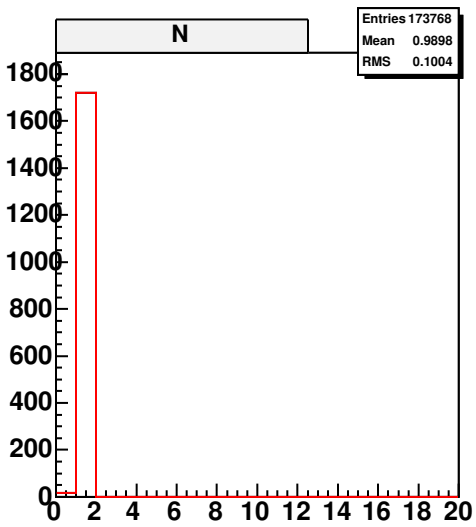



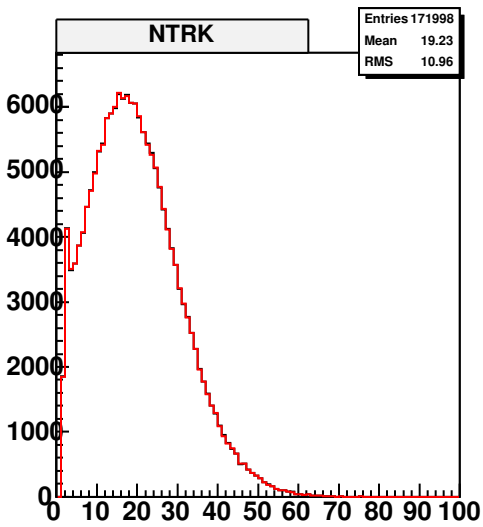



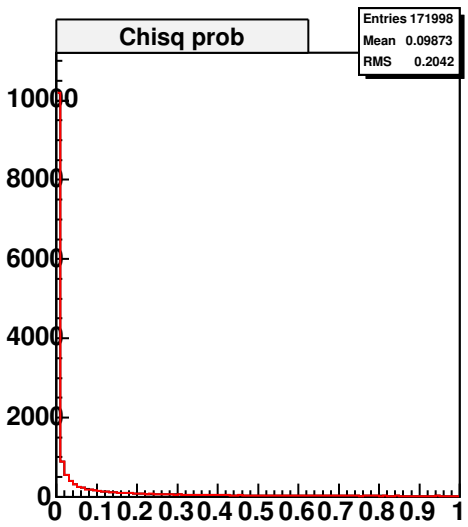



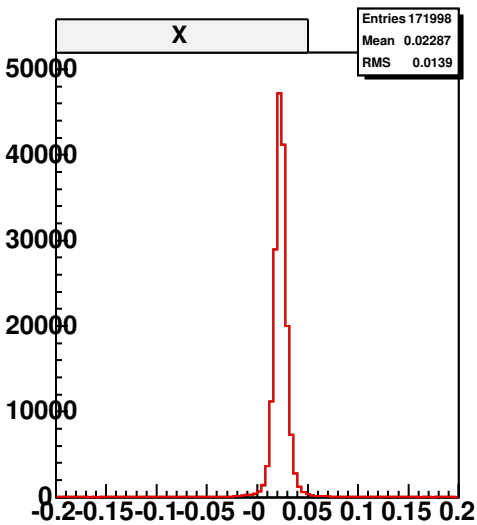



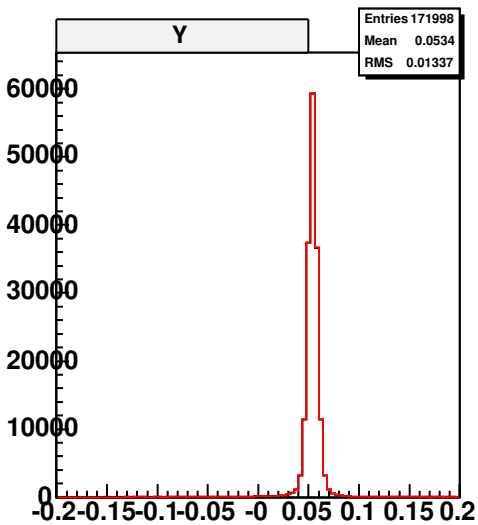

# Vertices (Primary - all candidates)

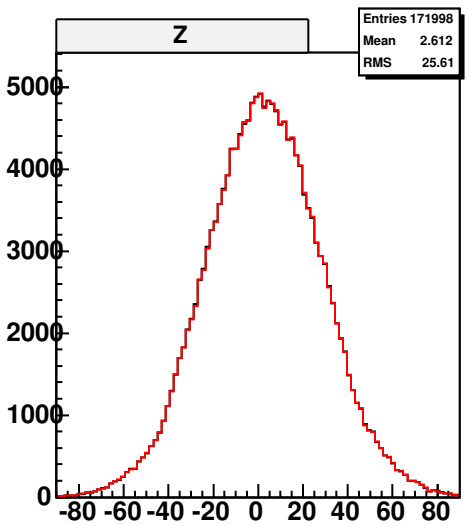


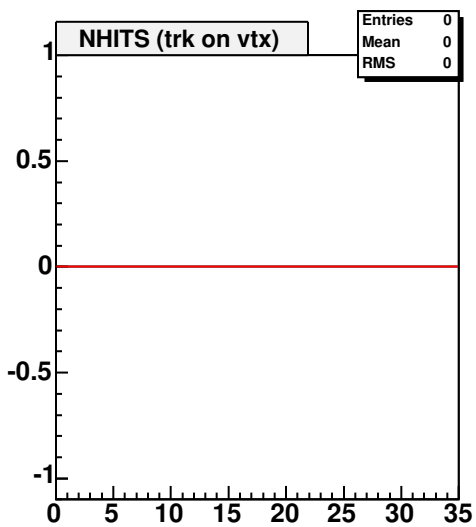



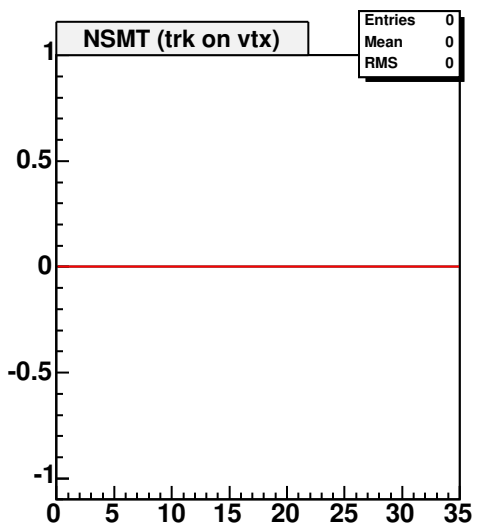



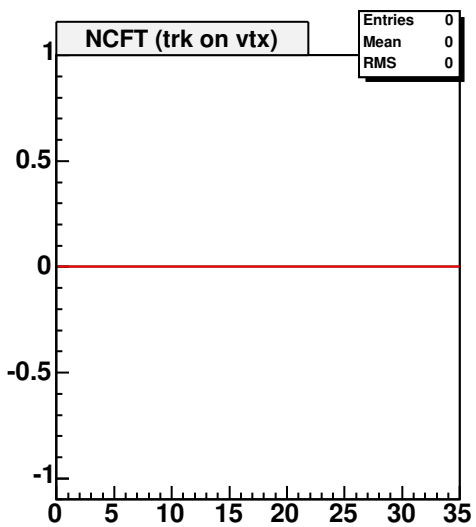



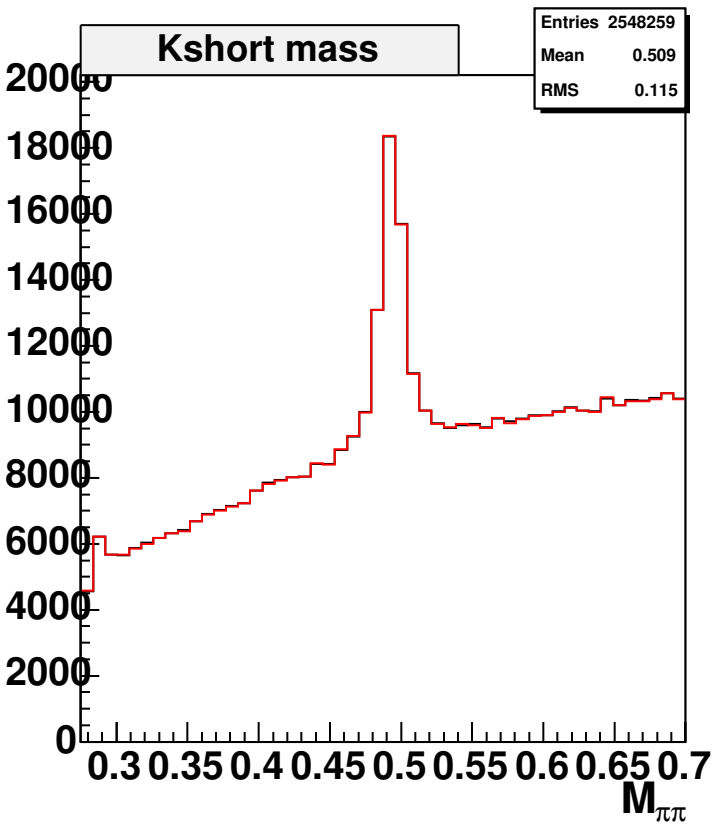



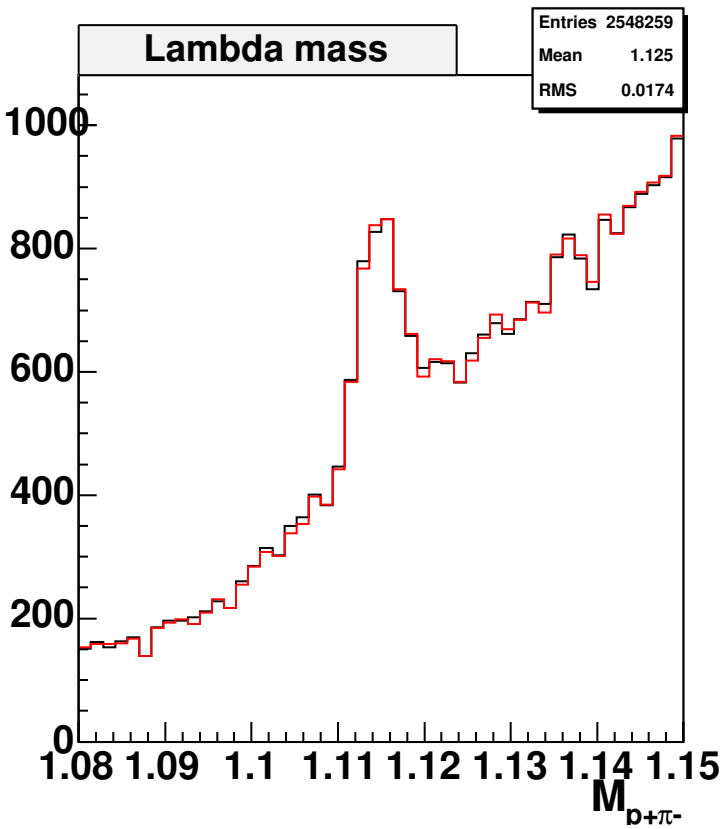



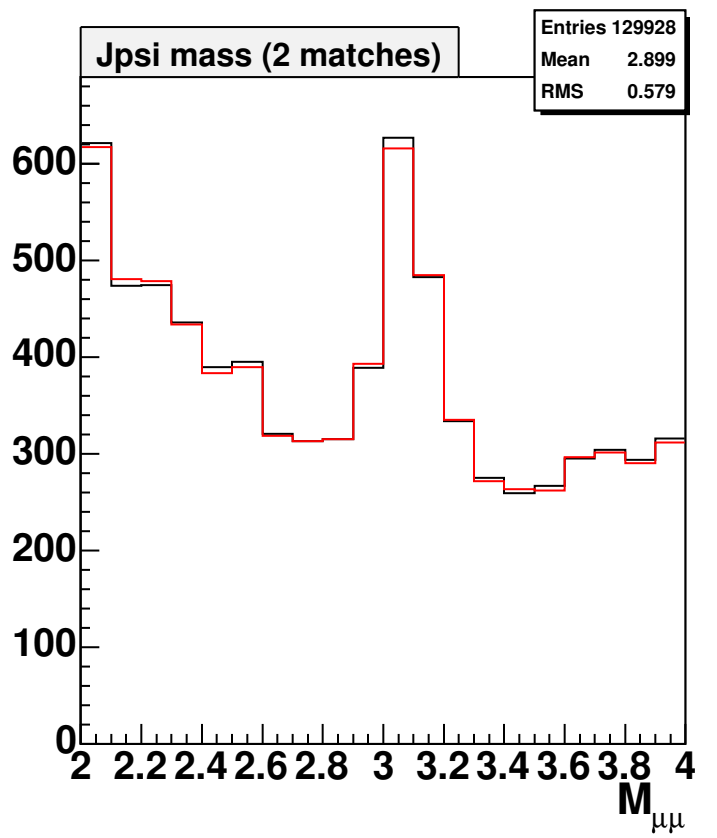



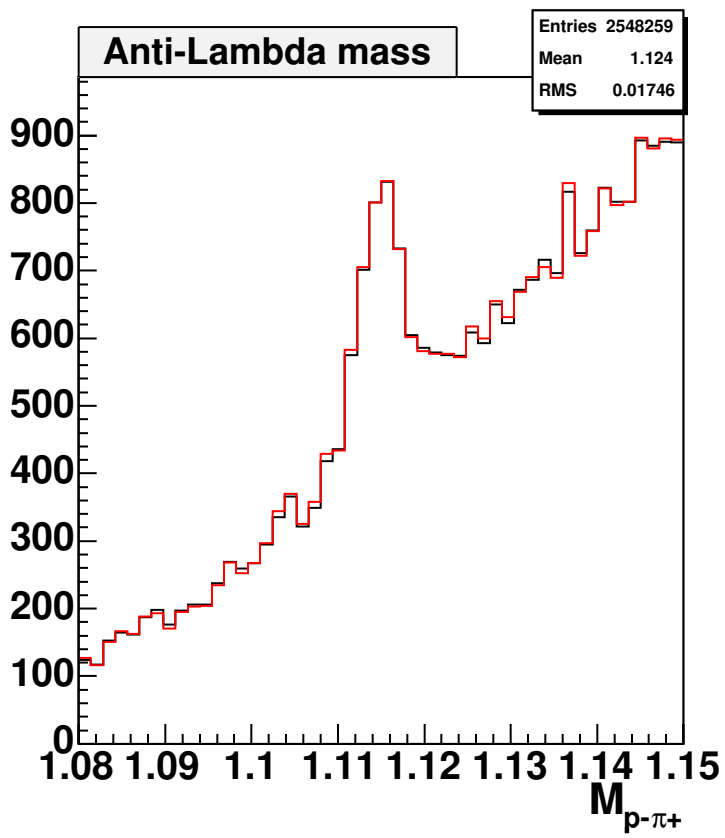




**Vertices (Primary - best)**

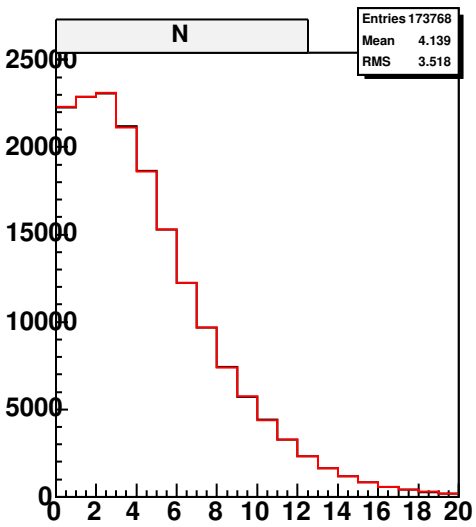

Kshort mass
Entries 2548259
Mean 0.509
RMS 0.115
$M_{\pi\pi}$

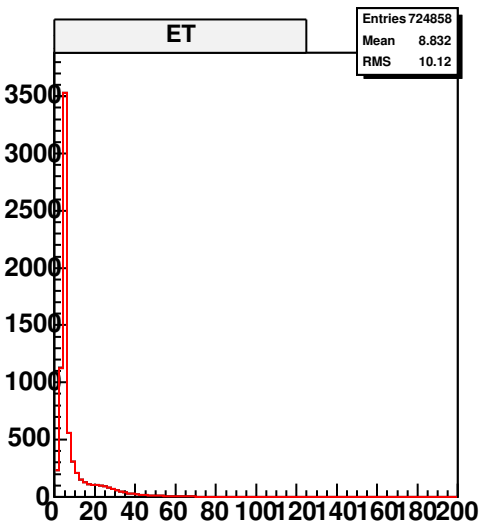

Lambda mass
Entries 2548259
Mean 1.125
RMS 0.0174
$M_{p+\pi-}$

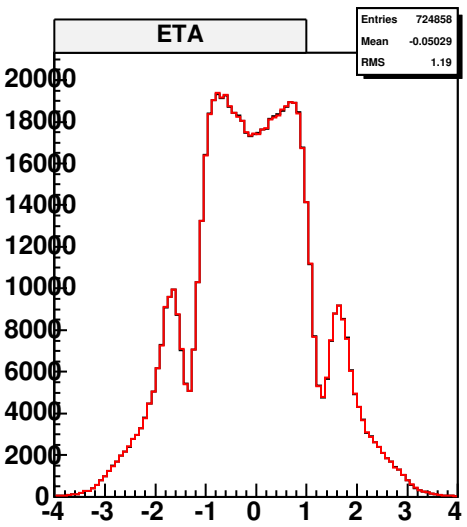

Jpsi mass (2 matches)
Entries 129928
Mean 2.899
RMS 0.579
$M_{\mu\mu}$

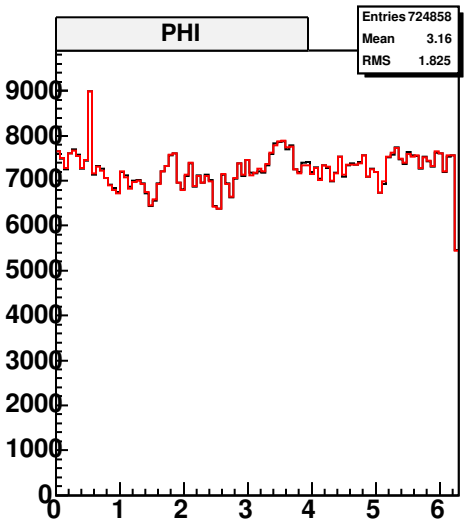

Anti-Lambda mass
Entries 2548259
Mean 1.124
RMS 0.01746
$M_{p-\pi+}$

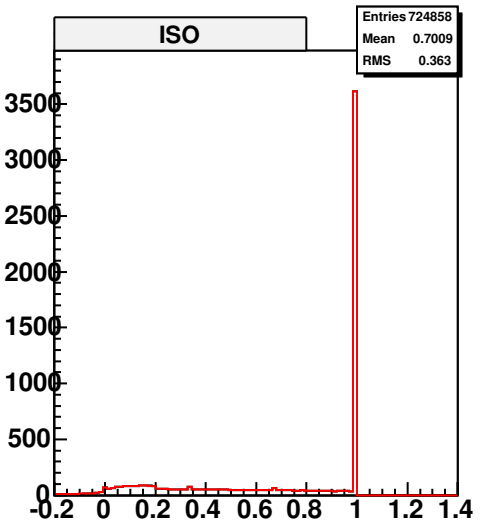
V0 (All)

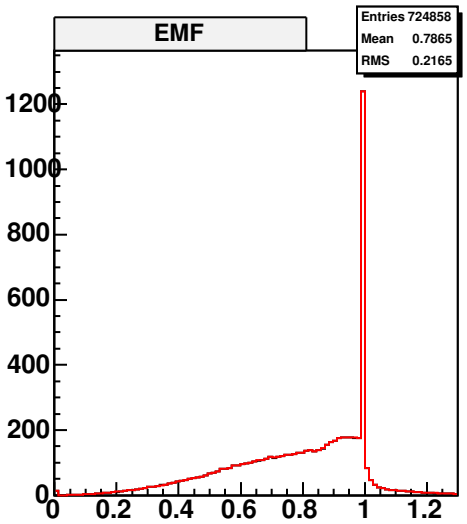


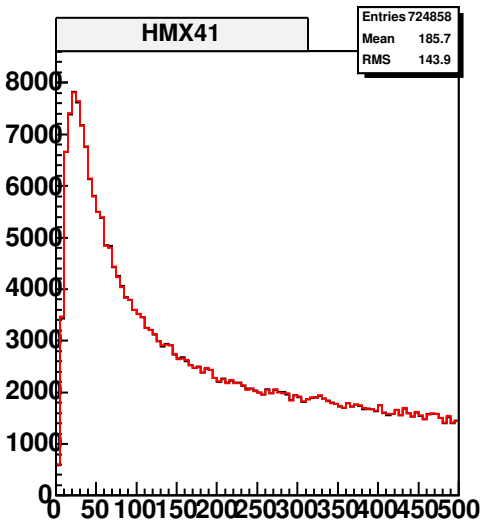



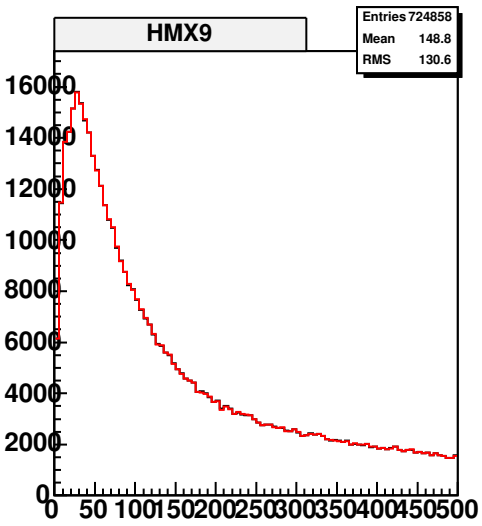



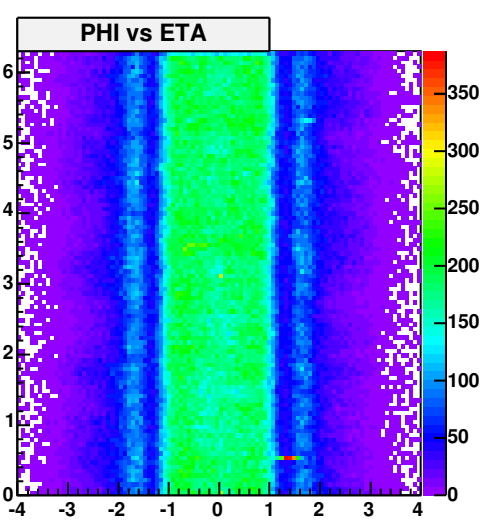



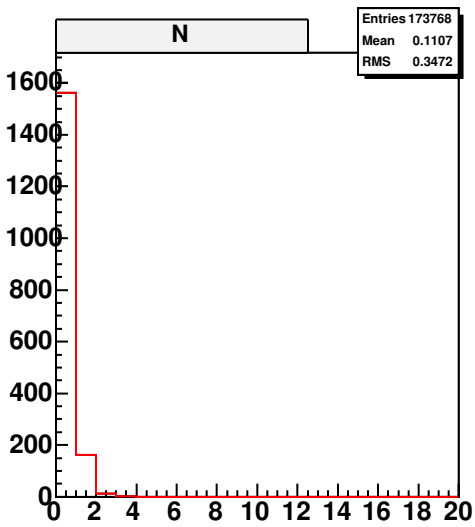



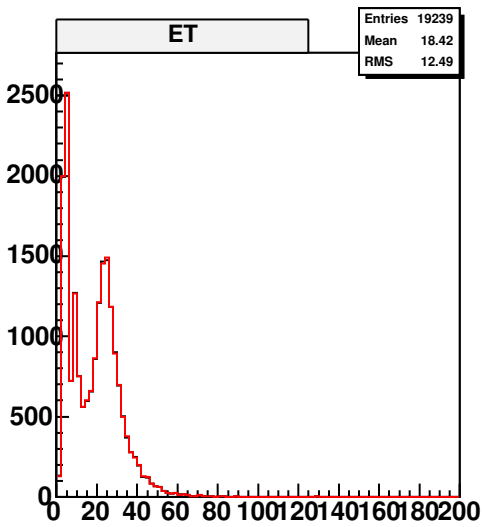



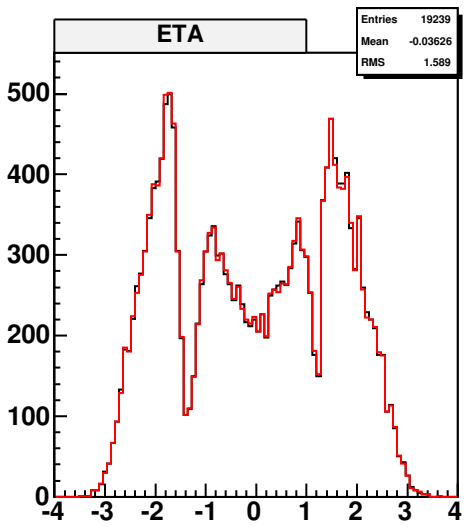



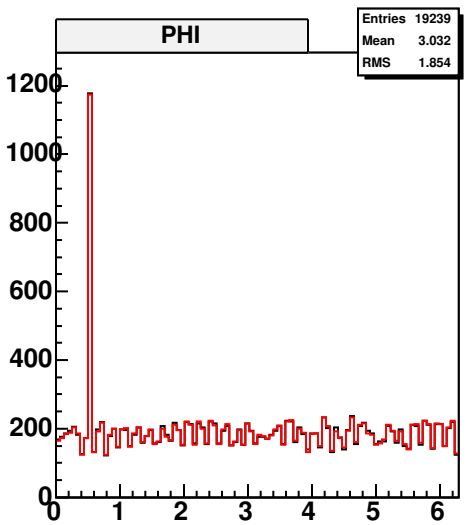



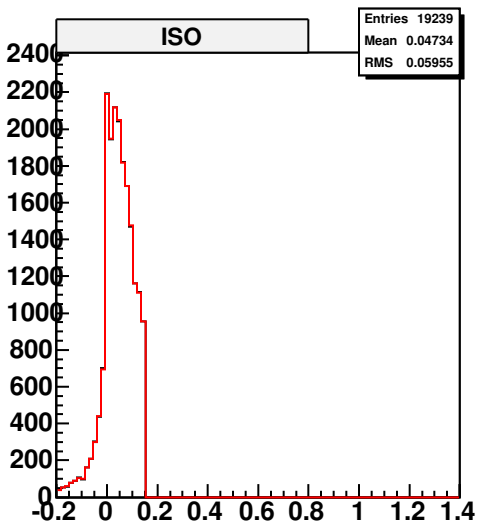

# Electrons (SCONE All)

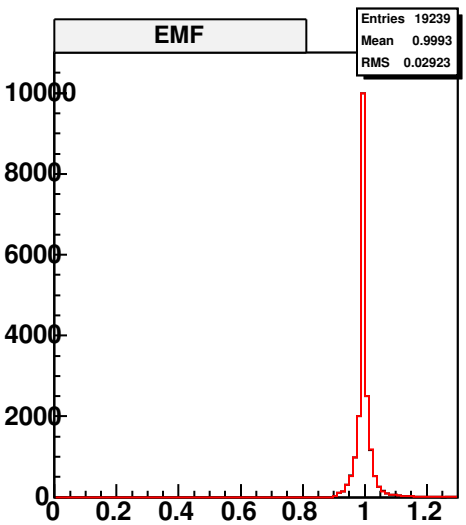


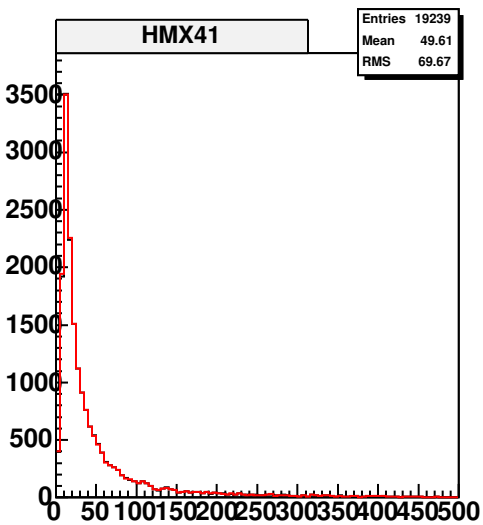



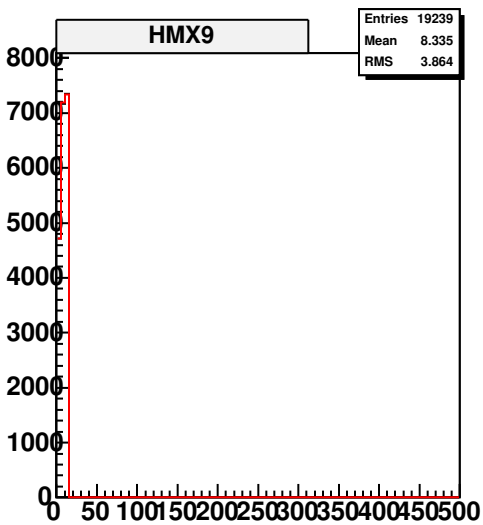



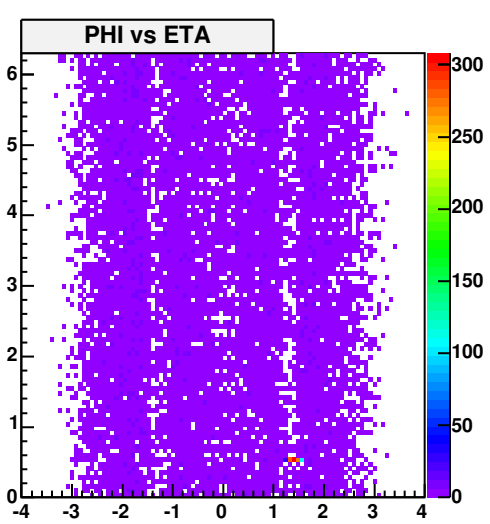



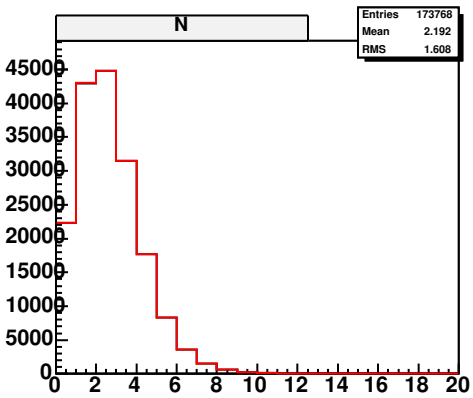



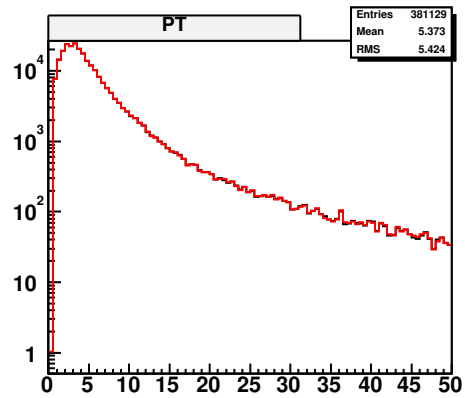



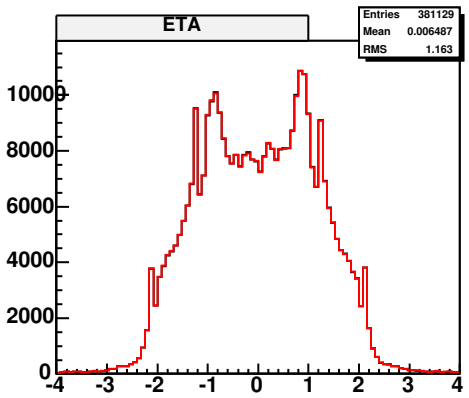



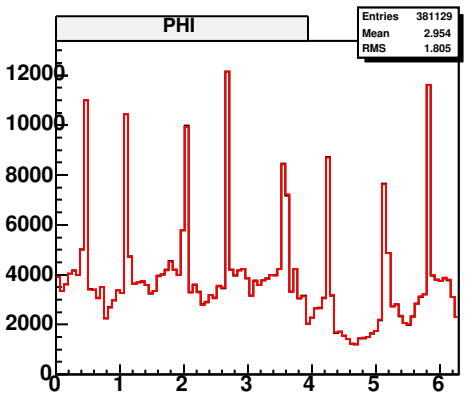



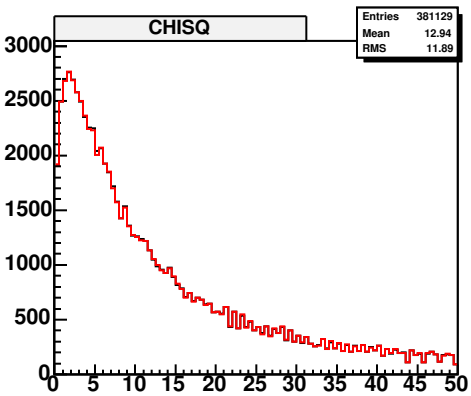

# Electrons (SCONE Tight)

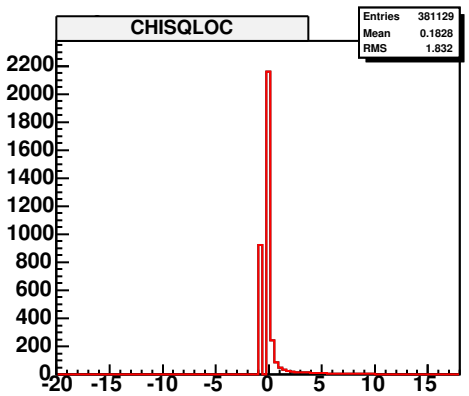

N
Entries 173768
Mean 2.192
RMS 1.608

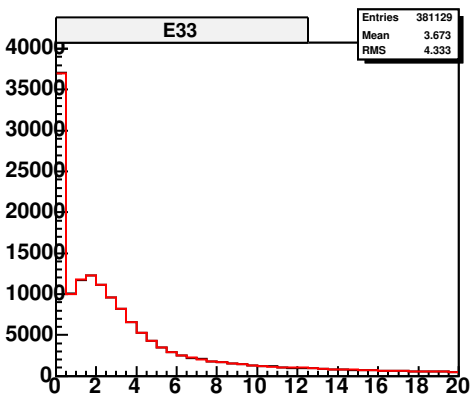

PT
Entries 381129
Mean 5.373
RMS 5.424

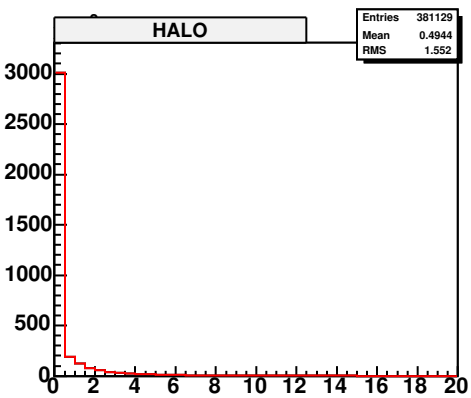

ETA
Entries 381129
Mean 0.006487
RMS 1.163

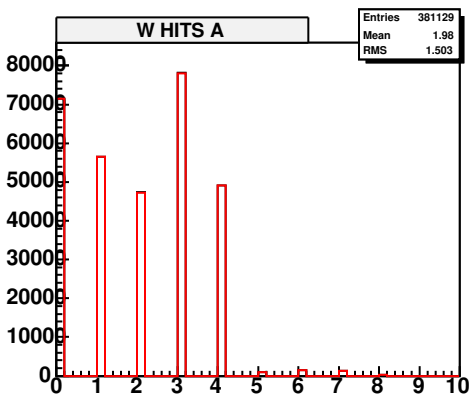

PHI
Entries 381129
Mean 2.954
RMS 1.805

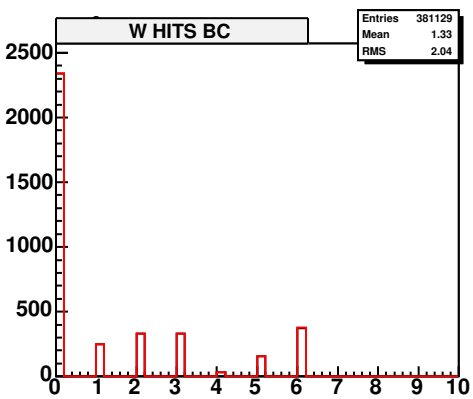

CHISQ
Entries 381129
Mean 12.94
RMS 11.89

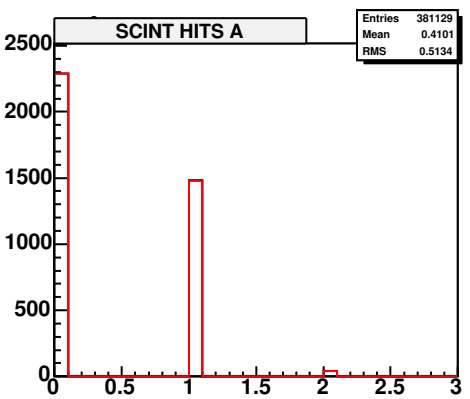

CHISQLOC
Entries 381129
Mean 0.1828
RMS 1.832

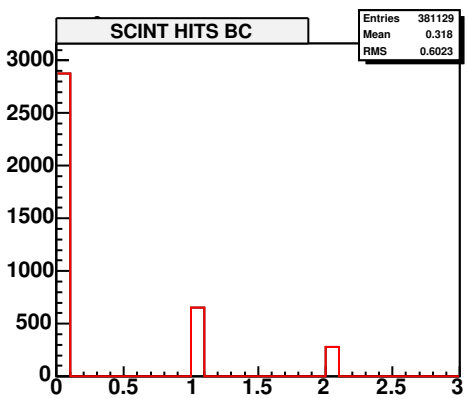

E33
Entries 381129
Mean 3.673
RMS 4.333


HALO
Entries 381129
Mean 0.4944
RMS 1.552

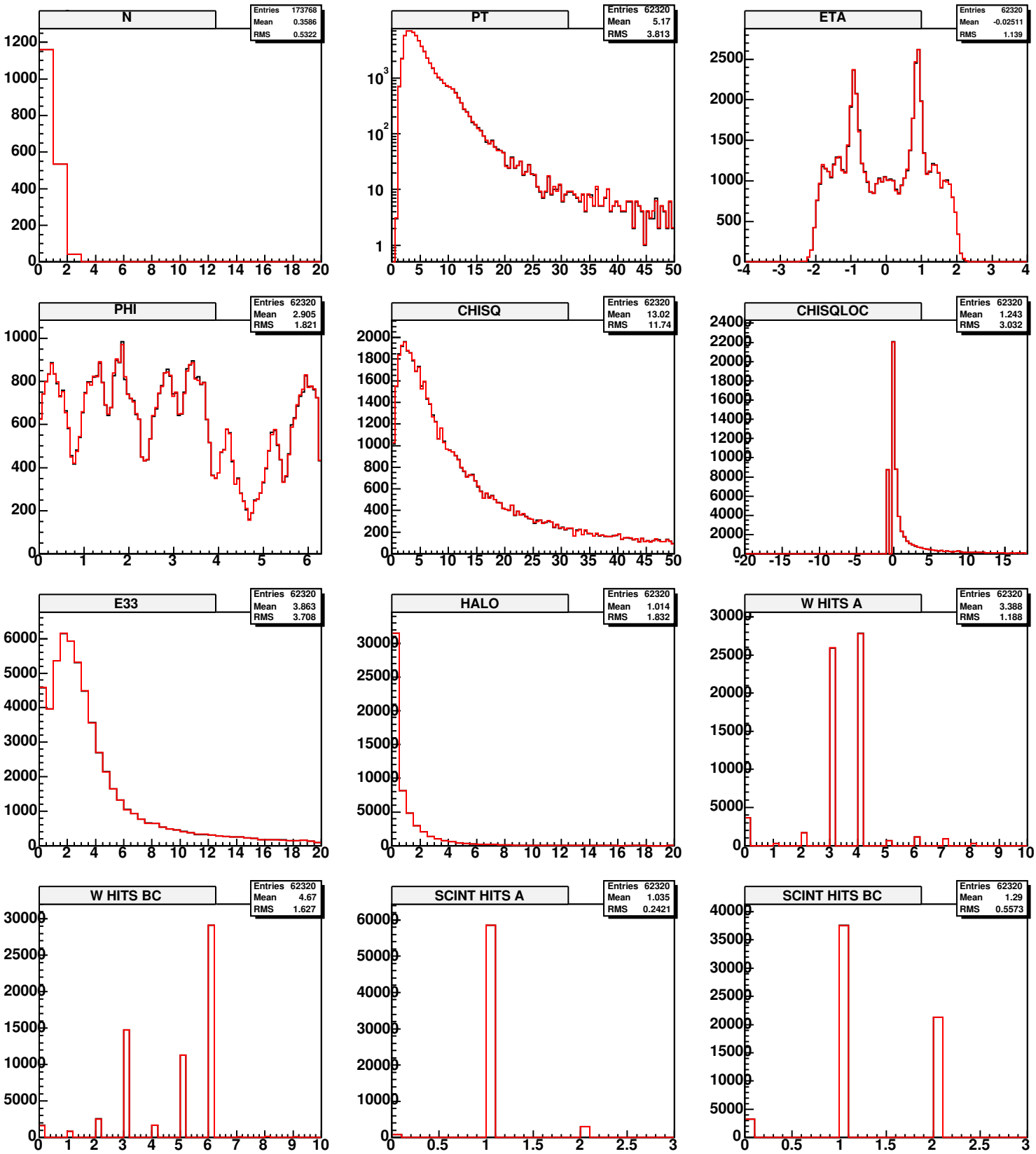

W HITS A
Entries 381129
Mean 1.98
RMS 1.503


W HITS BC
Entries 381129
Mean 1.33
RMS 2.04

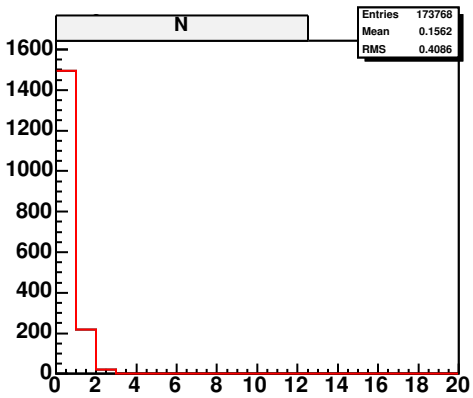

SCINT HITS A
Entries 381129
Mean 0.4101
RMS 0.5134

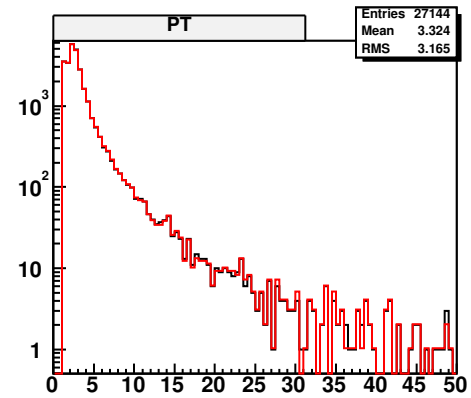

SCINT HITS BC
Entries 381129
Mean 0.318
RMS 0.6023

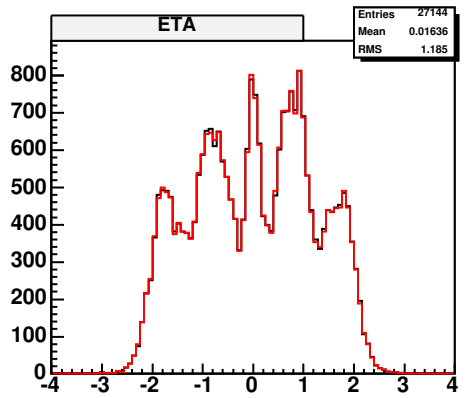
# Muons (All)

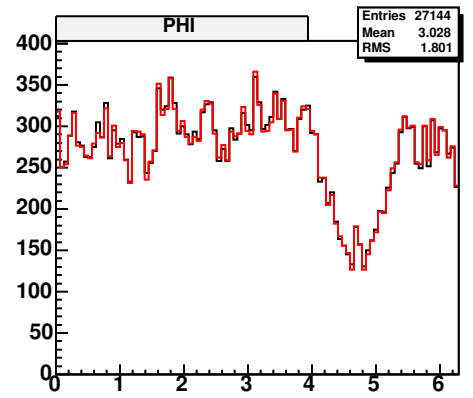


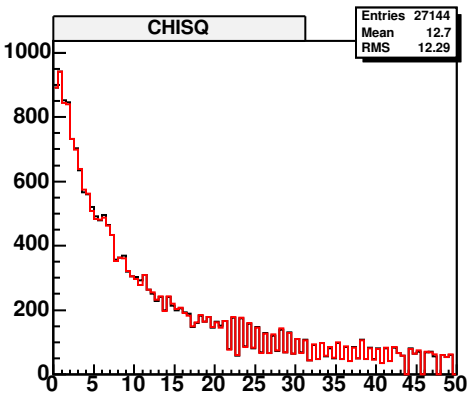

# Muons (Matched)

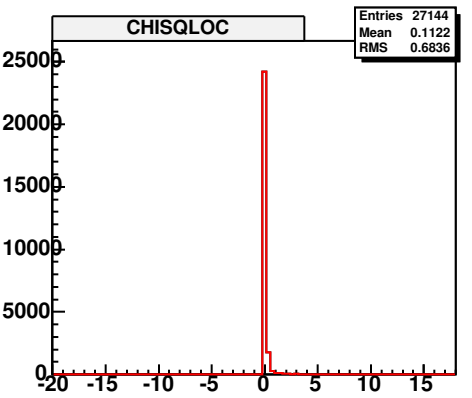

N
Entries 173768
Mean 0.1562
RMS 0.4086

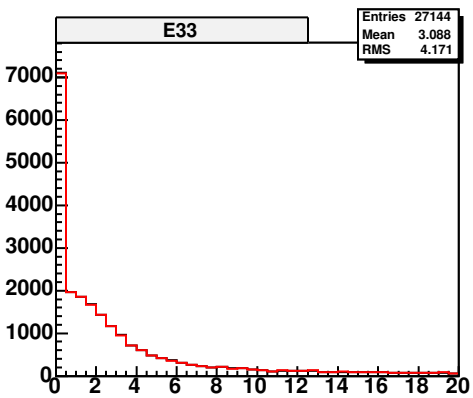

PT
Entries 27144
Mean 3.324
RMS 3.165

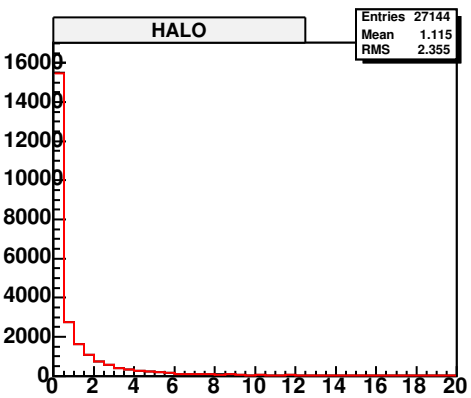

ETA
Entries 27144
Mean 0.01636
RMS 1.185

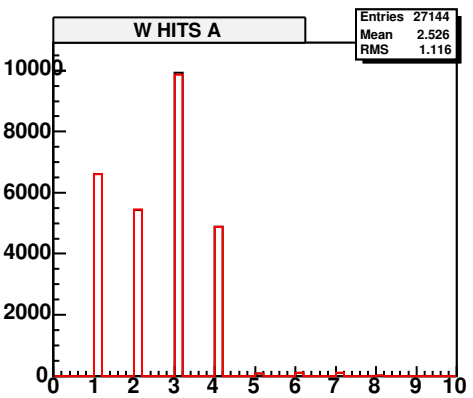

PHI
Entries 27144
Mean 3.028
RMS 1.801

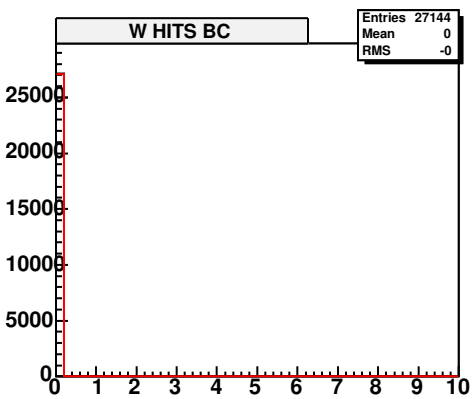

CHISQ
Entries 27144
Mean 12.7
RMS 12.29

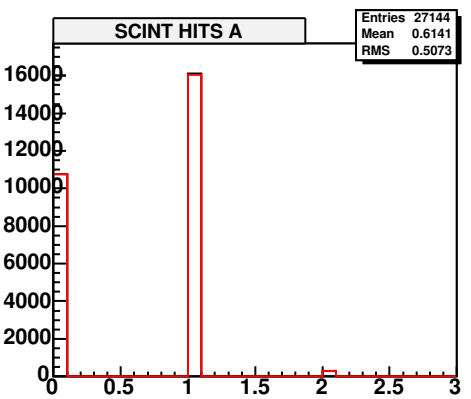

CHISQLOC
Entries 27144
Mean 0.1122
RMS 0.6836

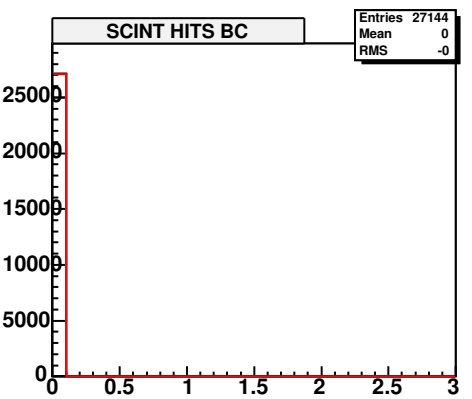

E33
Entries 27144
Mean 3.088
RMS 4.171


HALO
Entries 27144
Mean 1.115
RMS 2.355

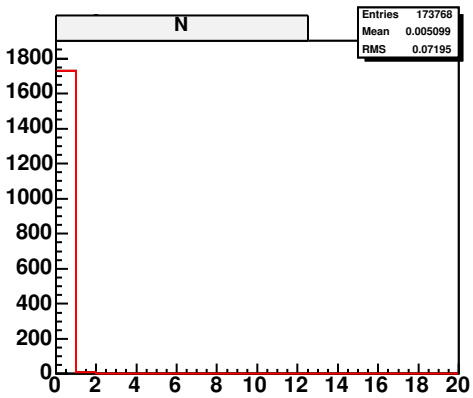

W HITS A
Entries 27144
Mean 2.526
RMS 1.116

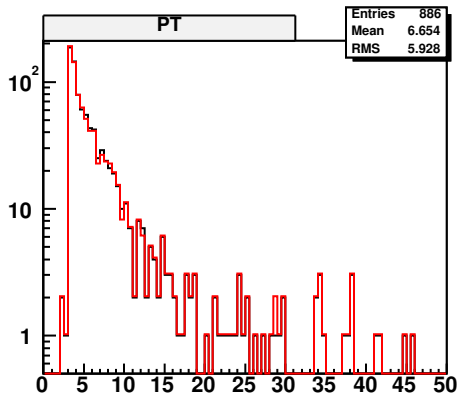

W HITS BC
Entries 27144
Mean 0
RMS -0

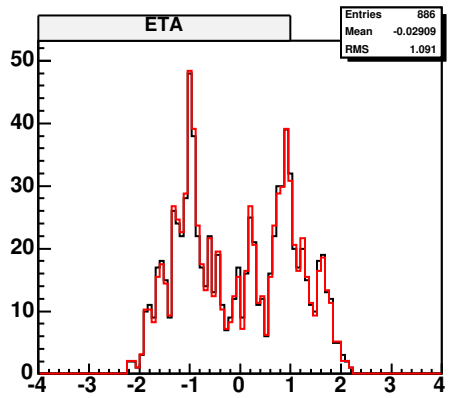

SCINT HITS A
Entries 27144
Mean 0.6141
RMS 0.5073

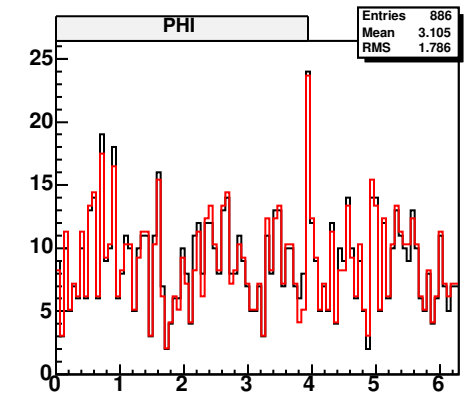

SCINT HITS BC
Entries 27144
Mean 0
RMS -0

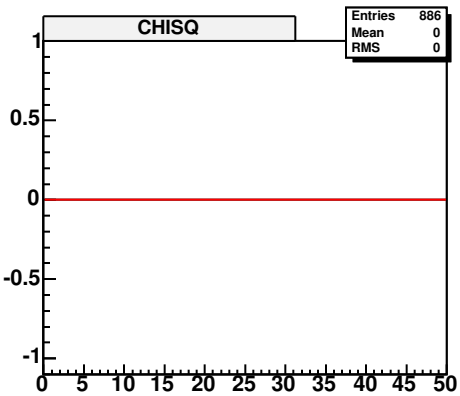
# Muons (Astub)

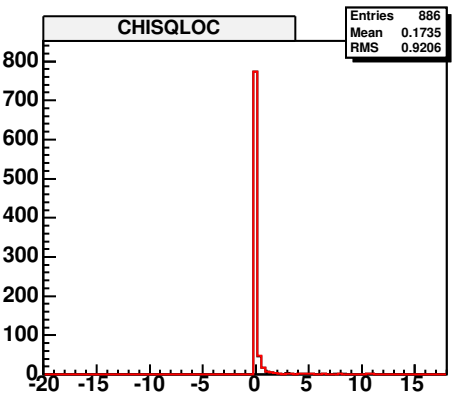


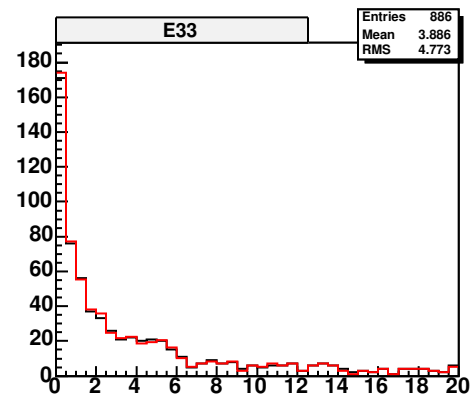



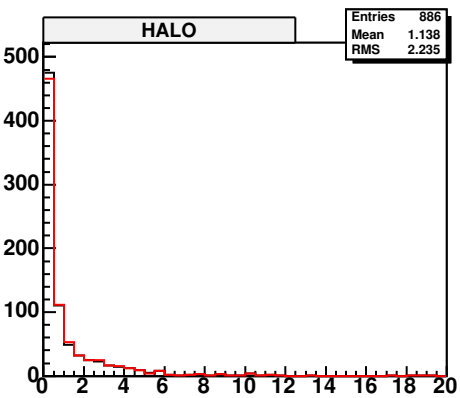



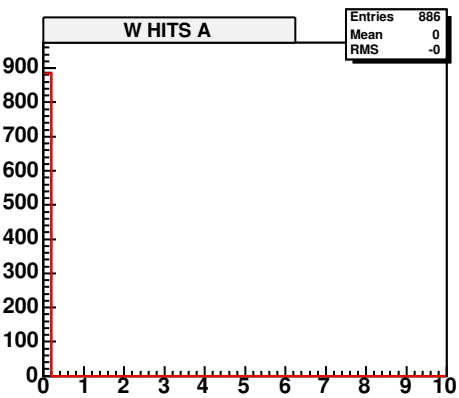



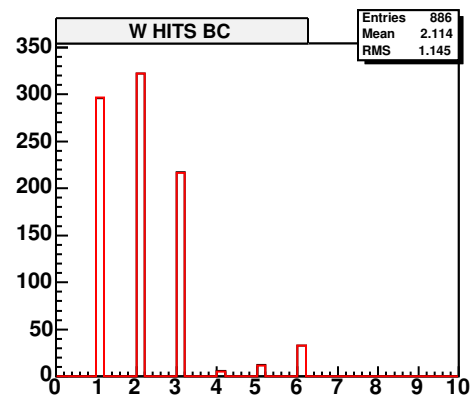



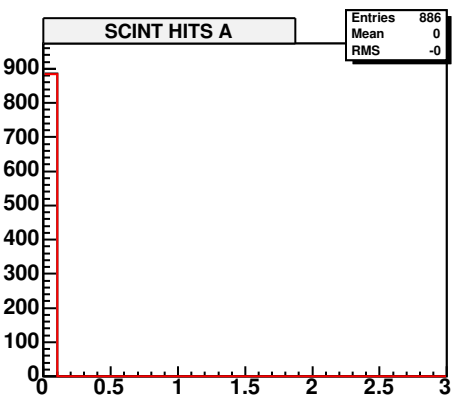



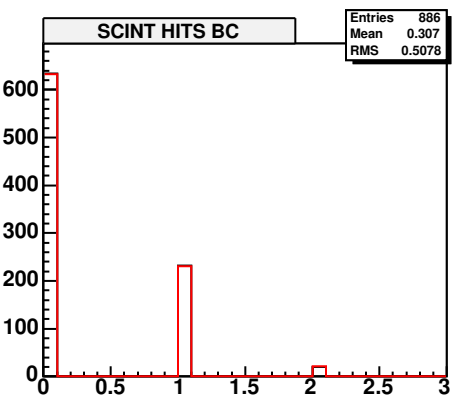



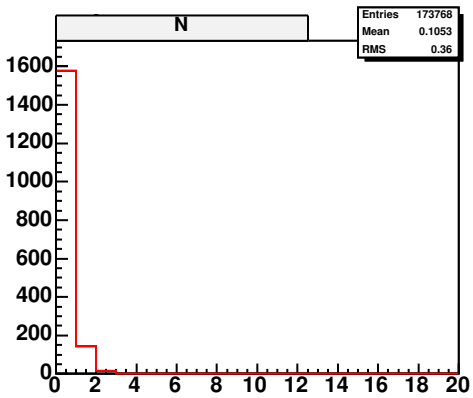



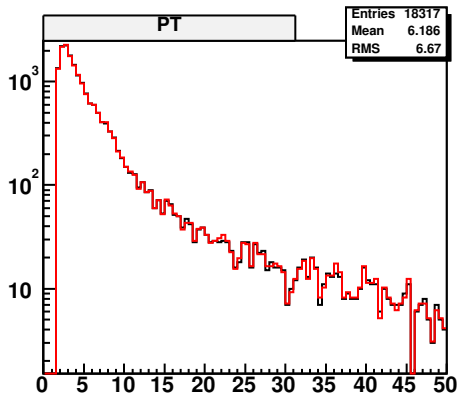



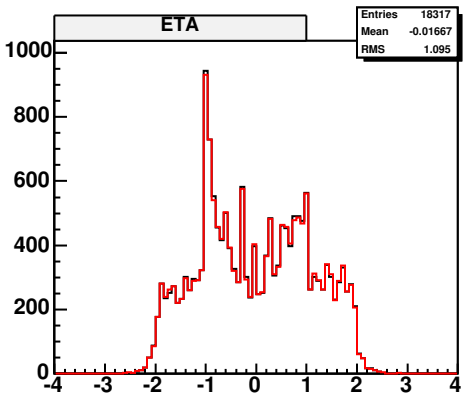



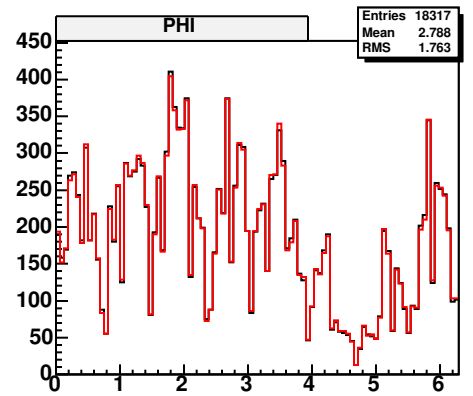



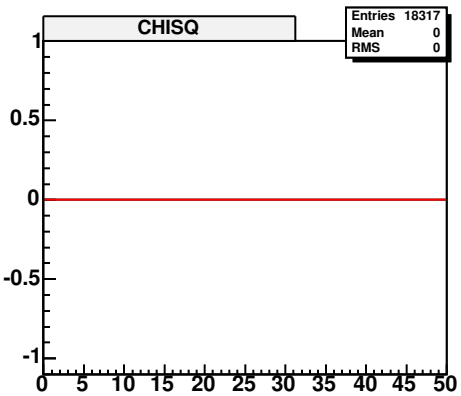

# Muons (BCstub)

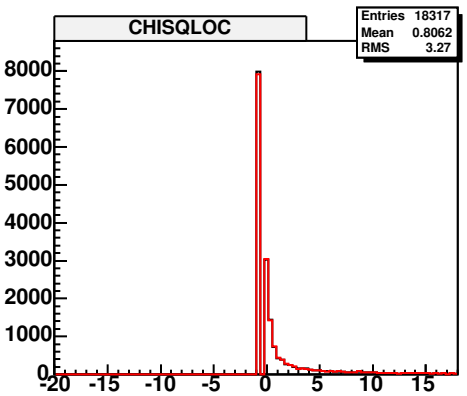


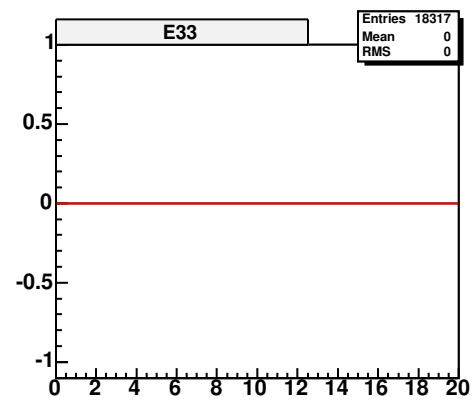



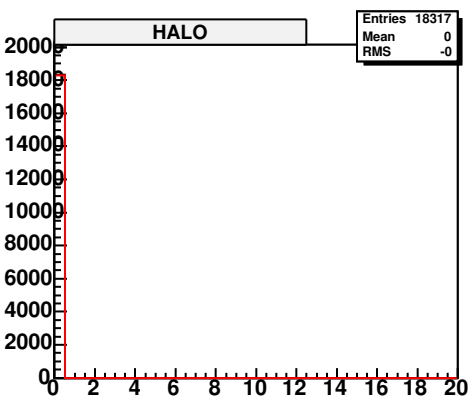



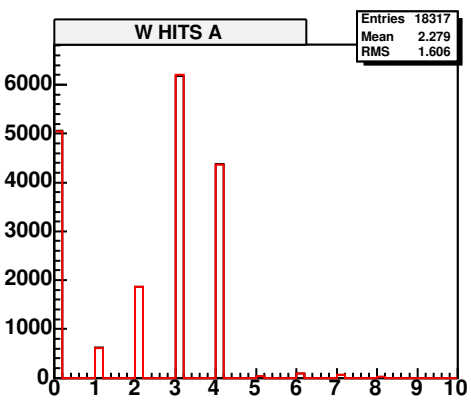



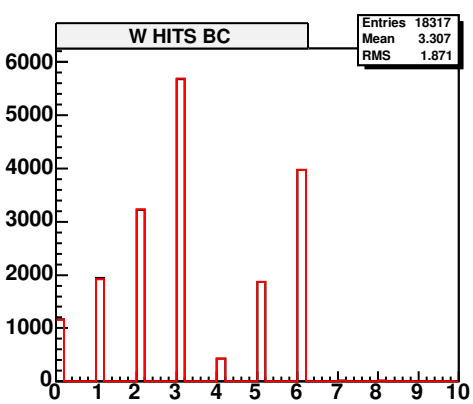



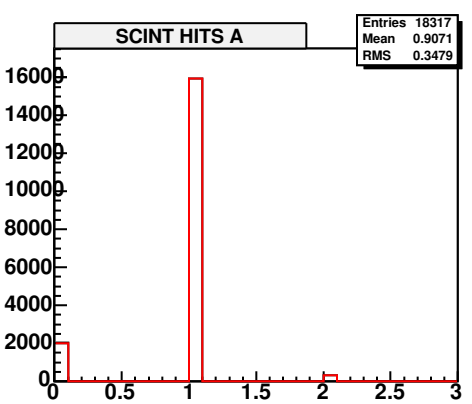



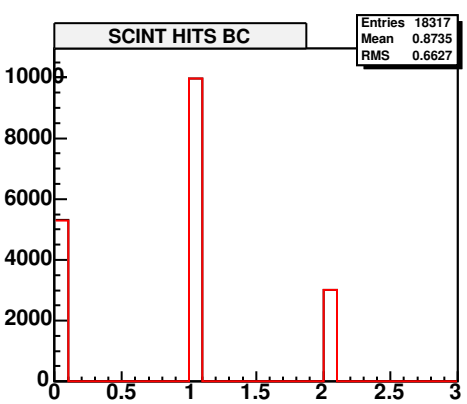



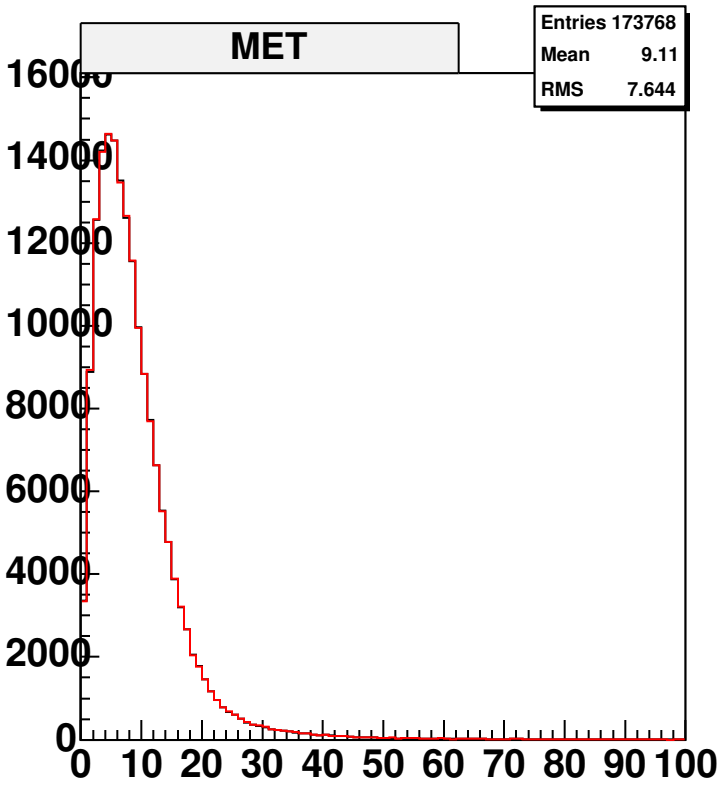



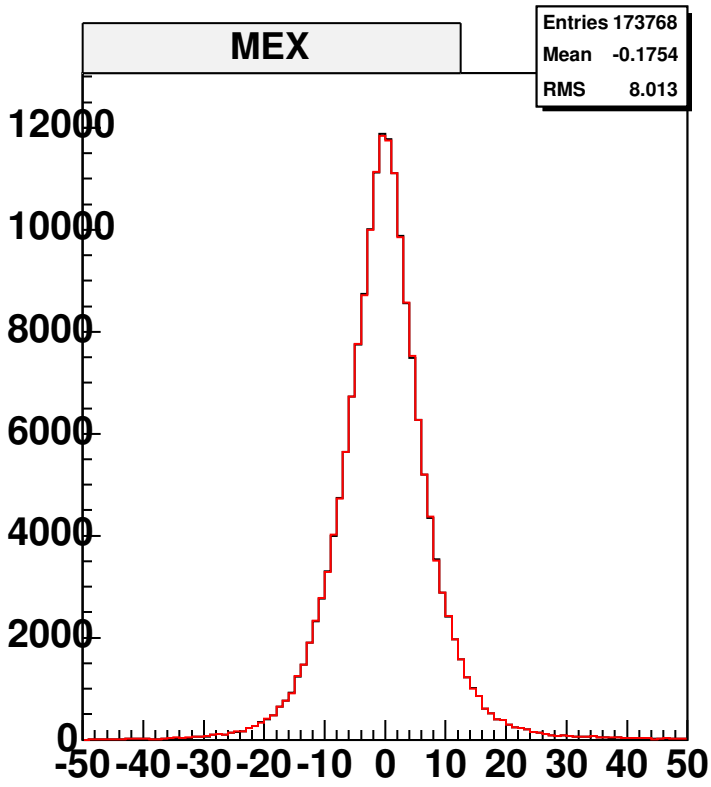



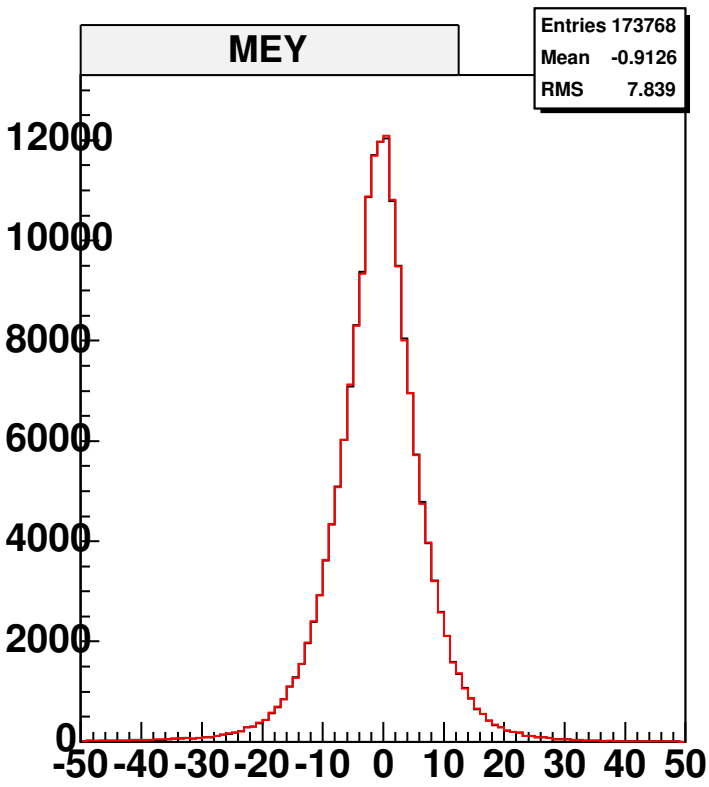



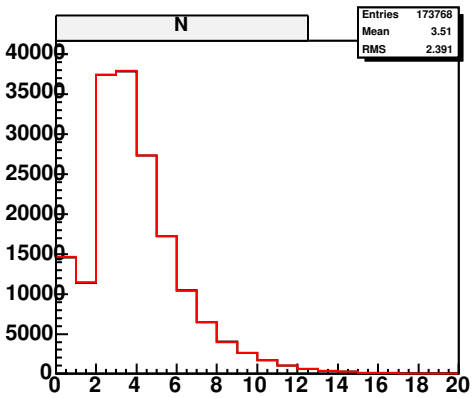

# Muons (Unmatched)

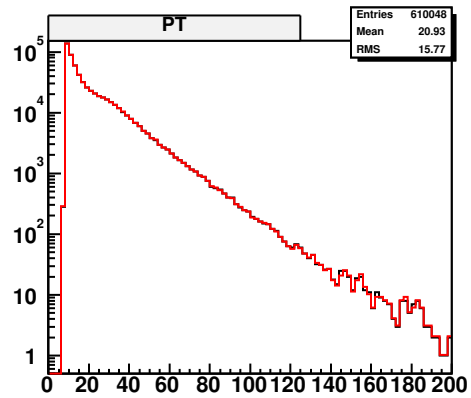

MET
Entries 173768
Mean 9.11
RMS 7.644
16000
14000
12000
10000
8000
6000
4000
2000
0
0 10 20 30 40 50 60 70 80 90 100

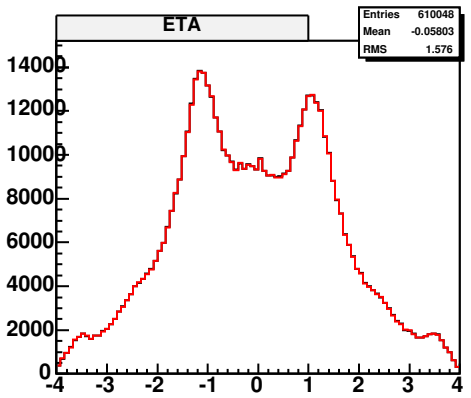

MEX
Entries 173768
Mean -0.1754
RMS 8.013
12000
10000
8000
6000
4000
2000
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

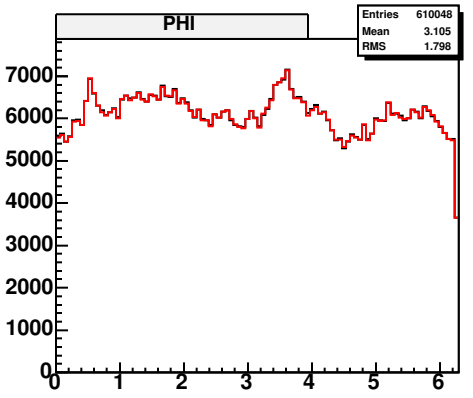

MEY
Entries 173768
Mean -0.9126
RMS 7.839
12000
10000
8000
6000
4000
2000
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

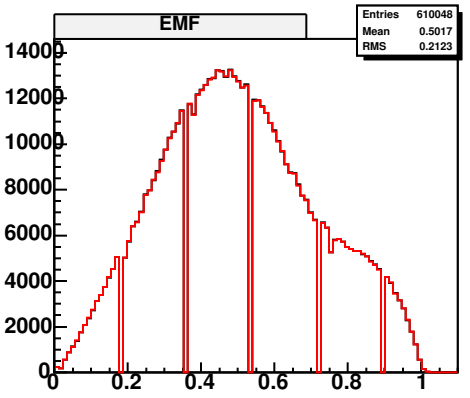
**Met (No cuts)**

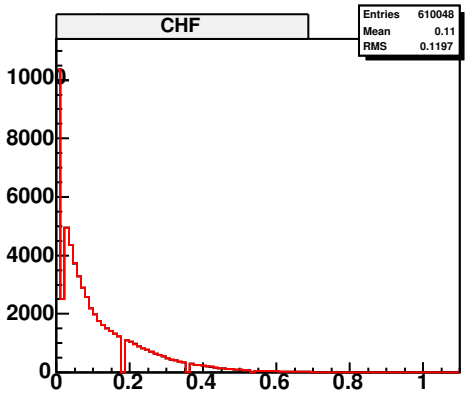


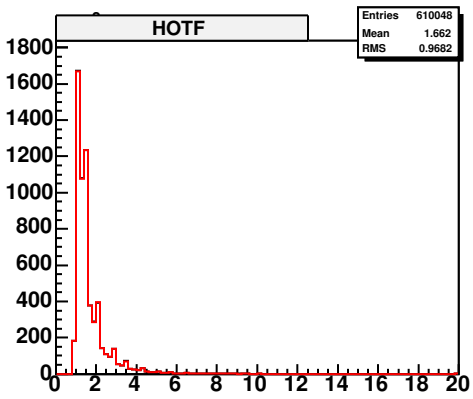



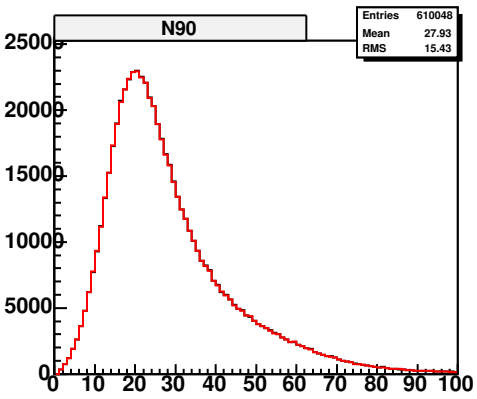



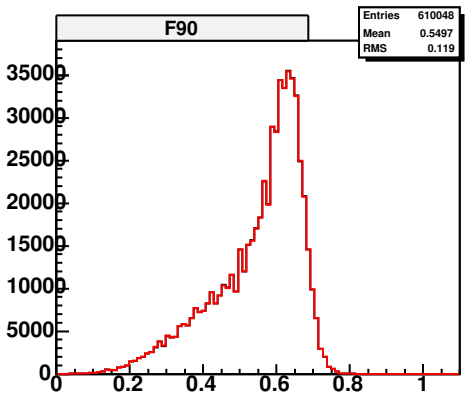



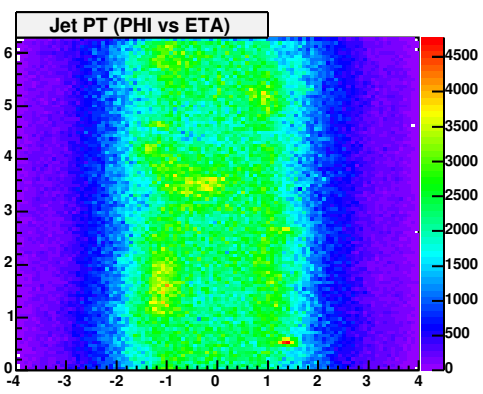



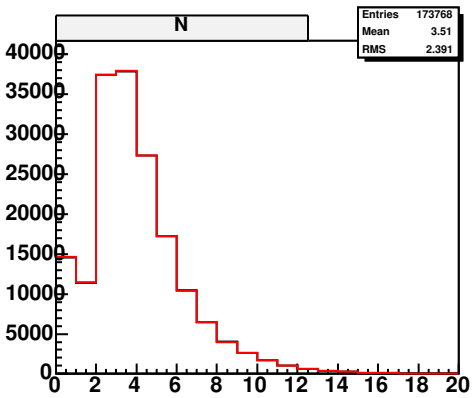



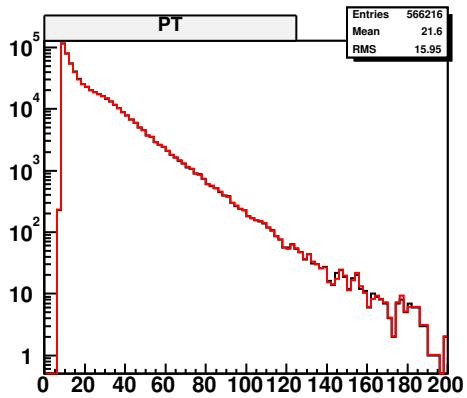



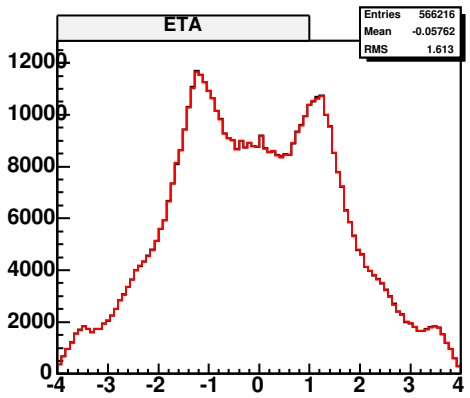



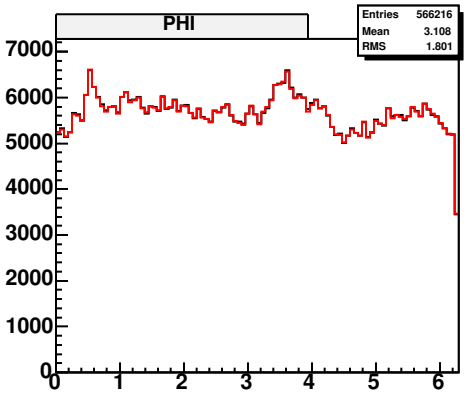



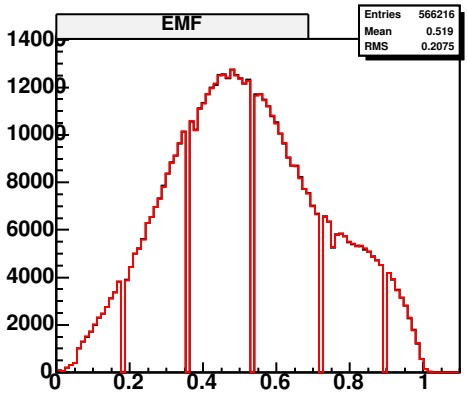

# Jets (Cone R 0.7 (no cuts))

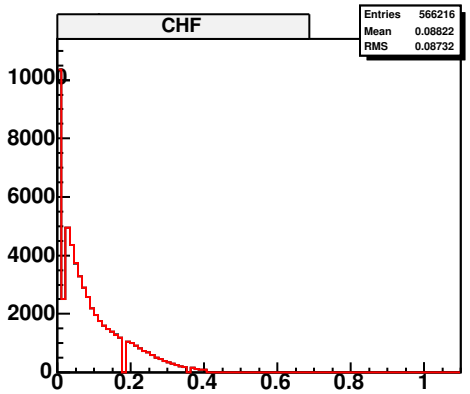


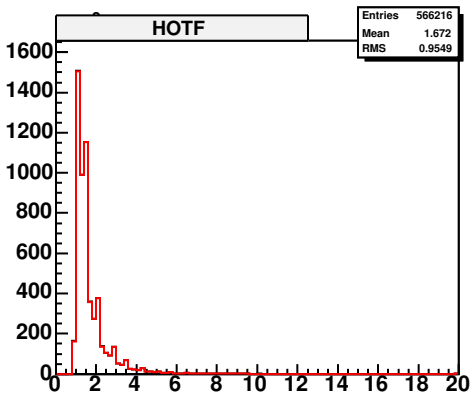



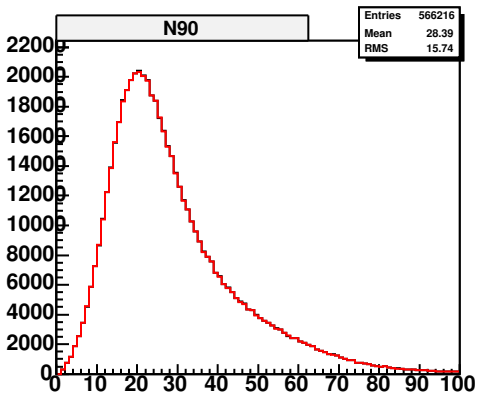



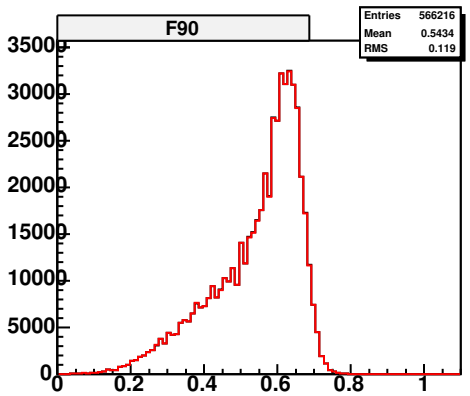



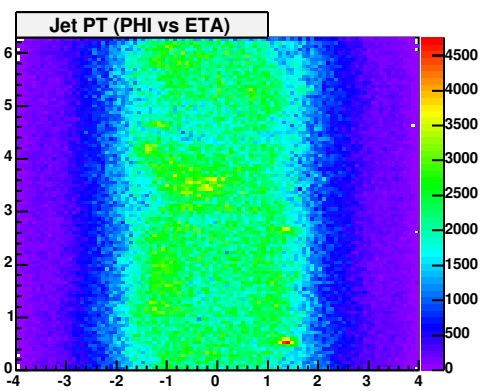



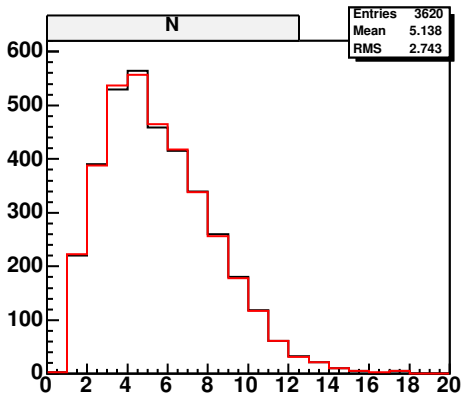



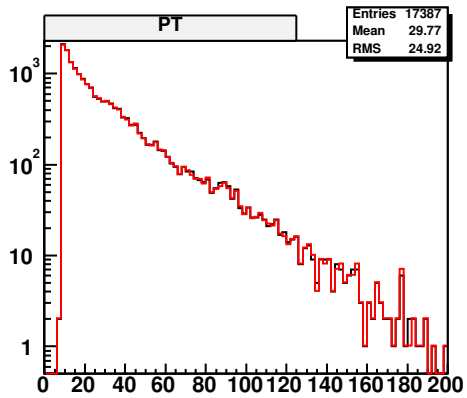



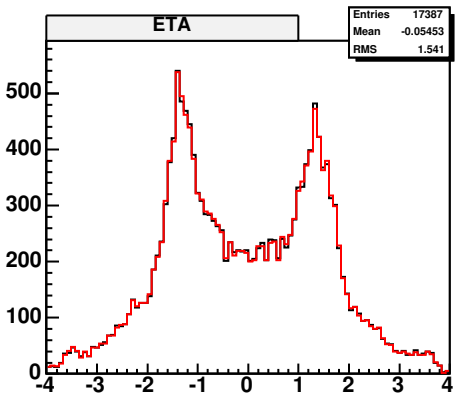



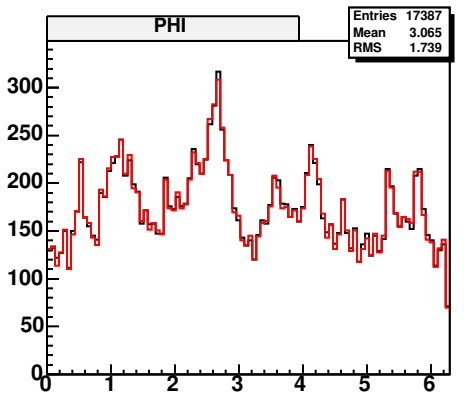



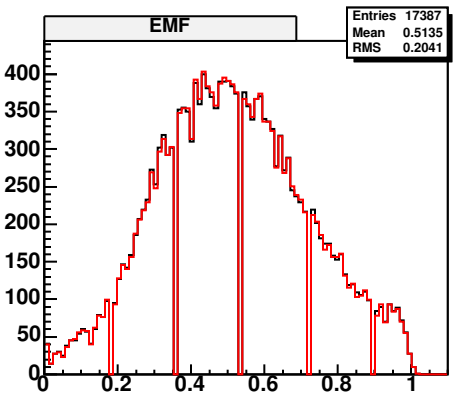

# Jets (Cone R 0.7 (standard cuts))

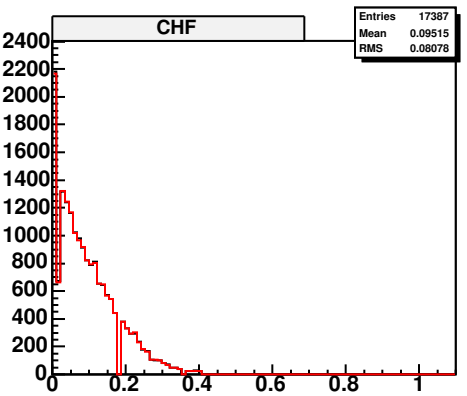


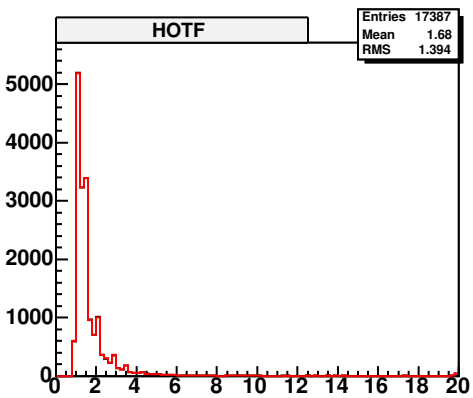



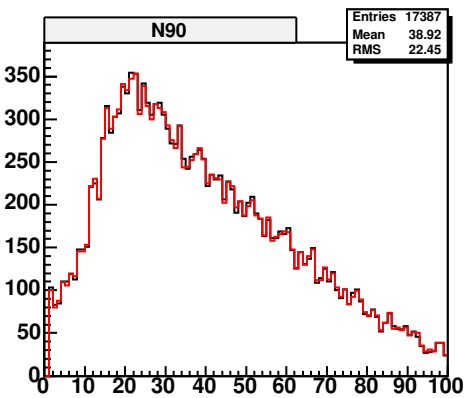



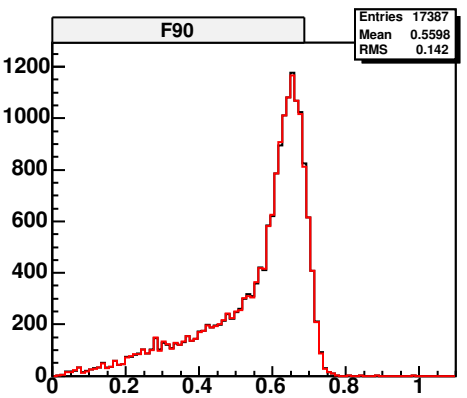



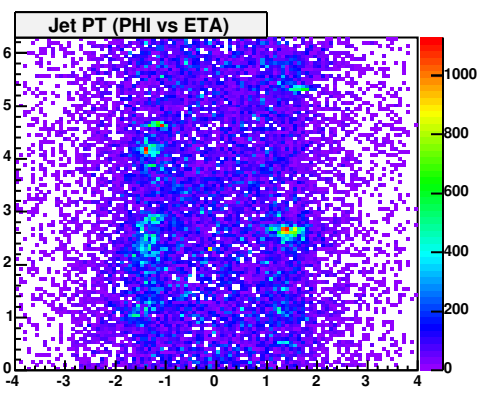



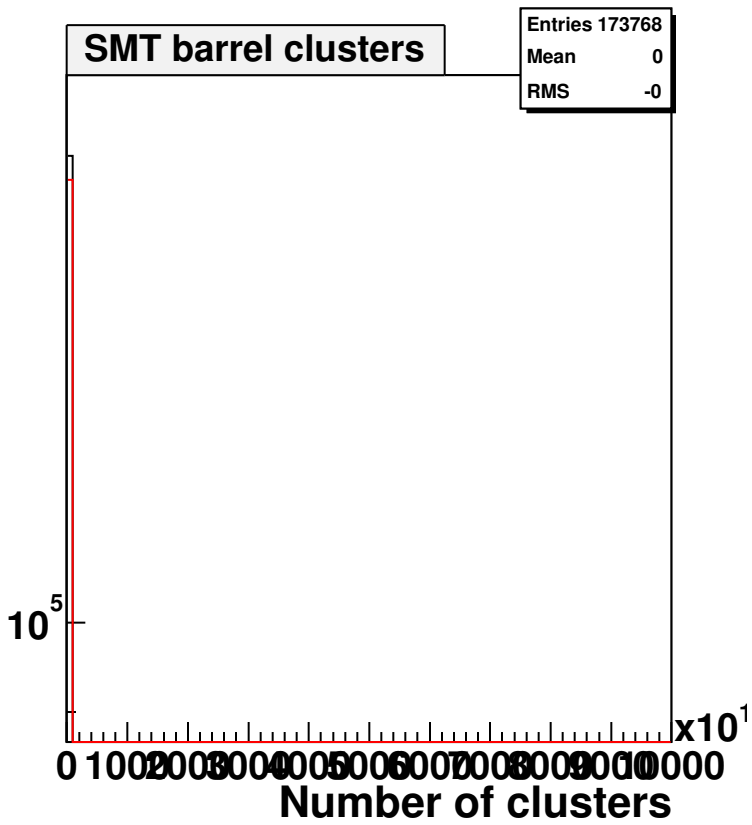



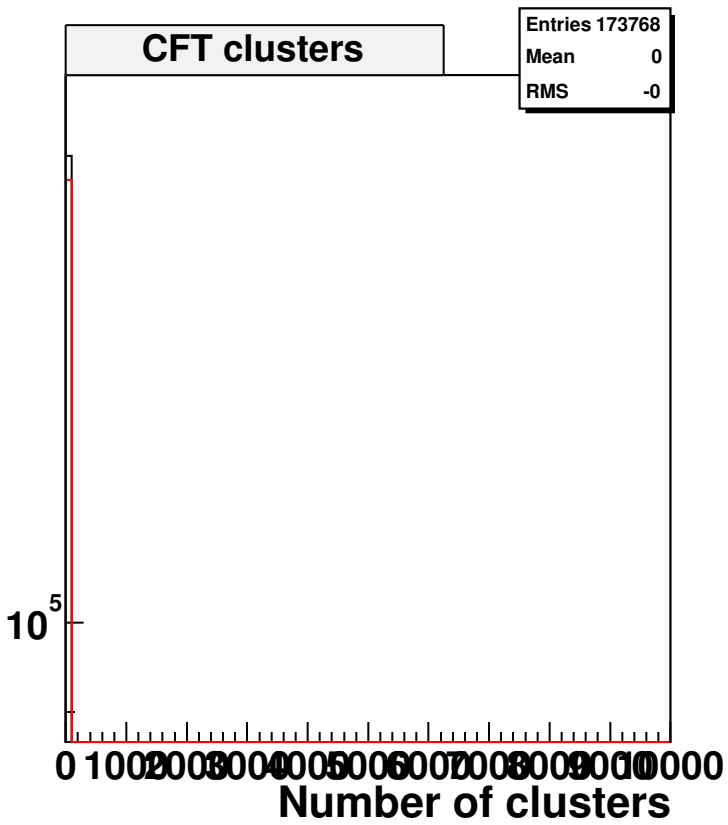



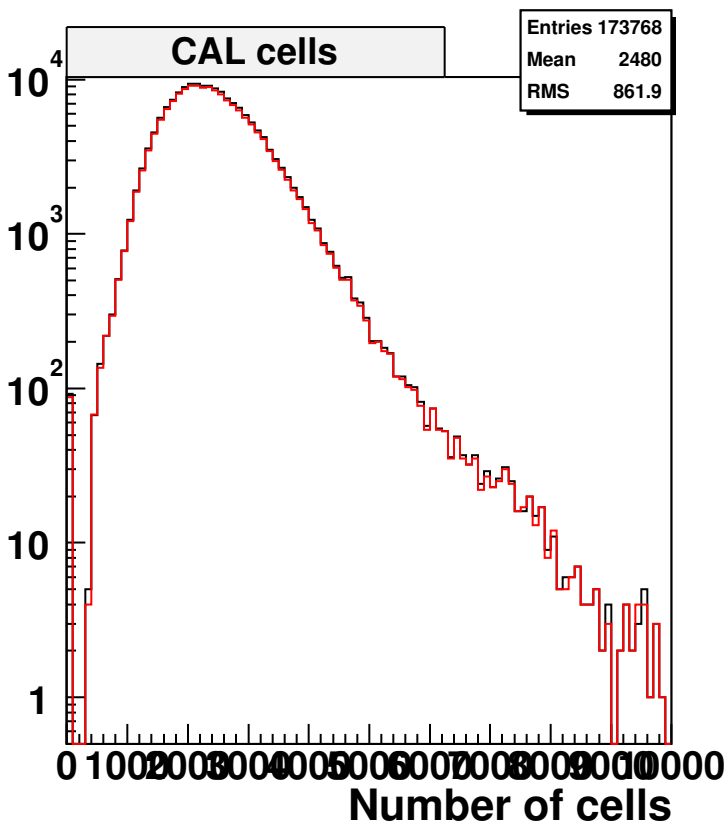



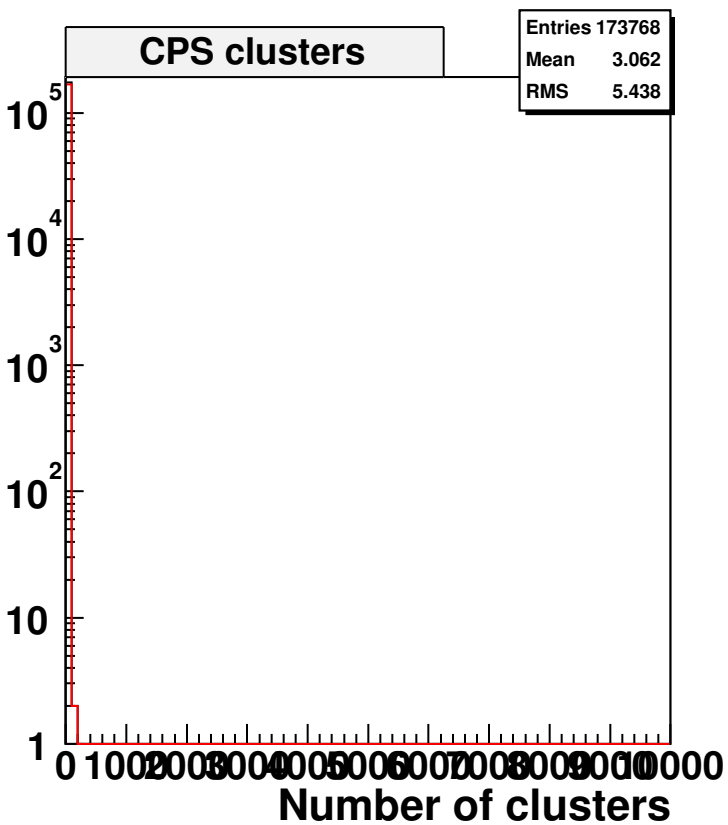




**Jets (Cone R 0.7 (standard cuts, MET>30))**

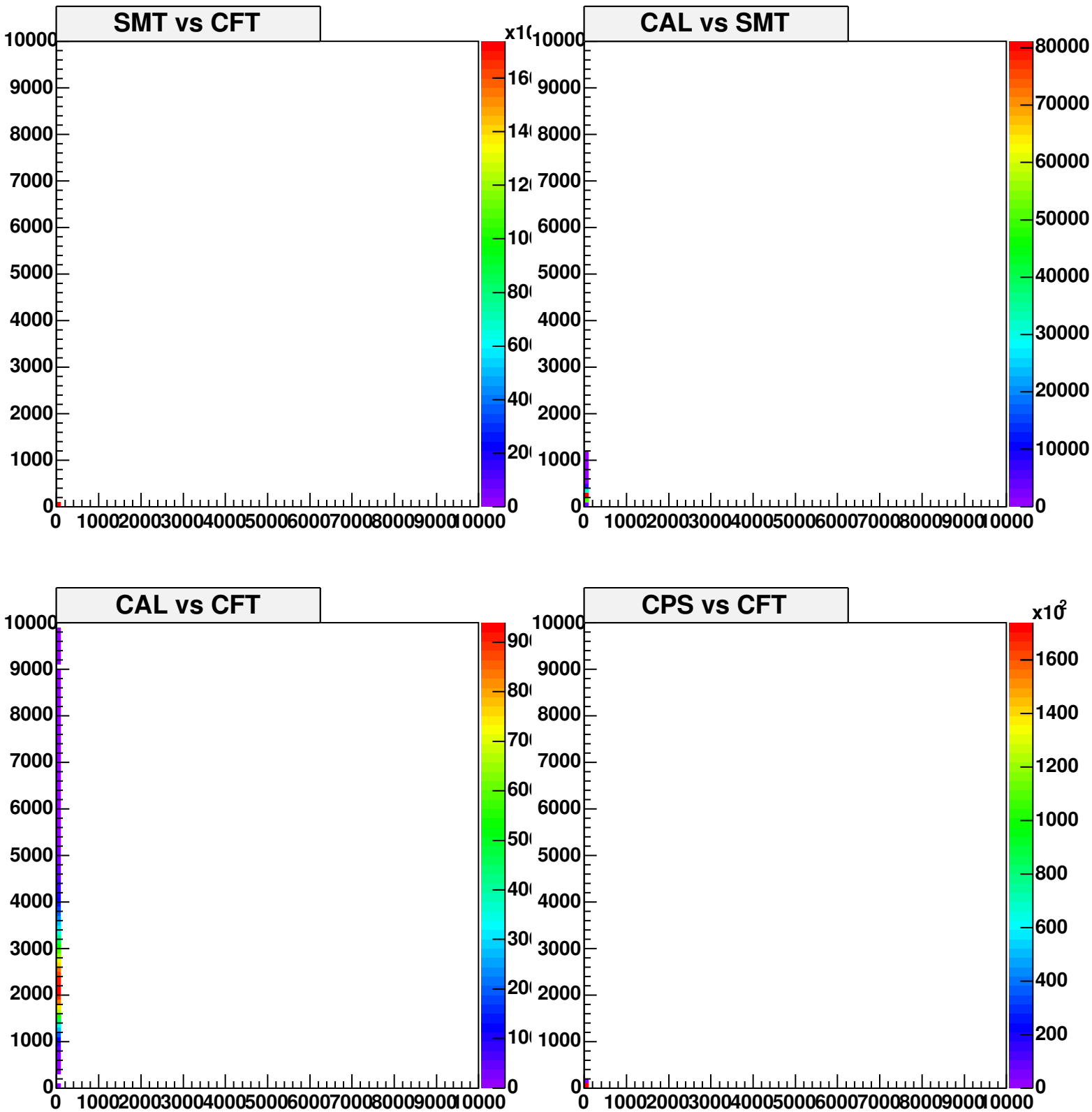


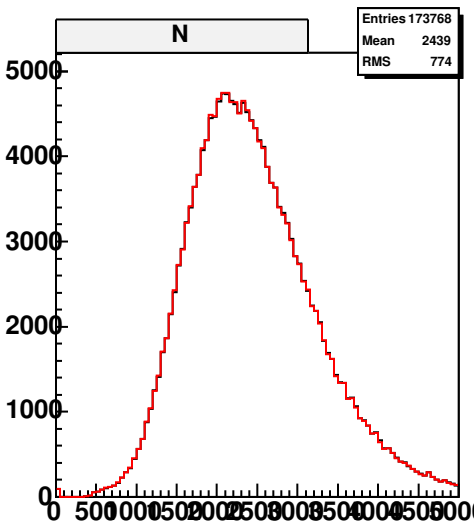



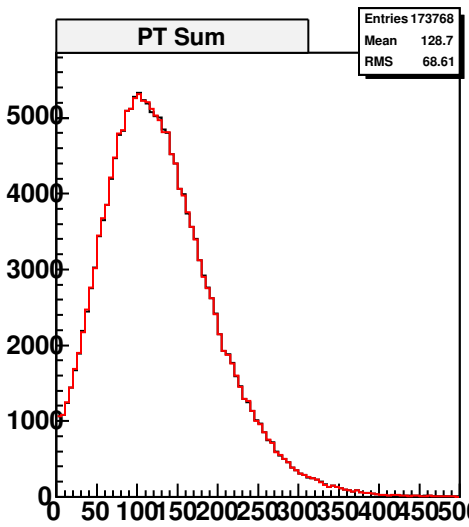



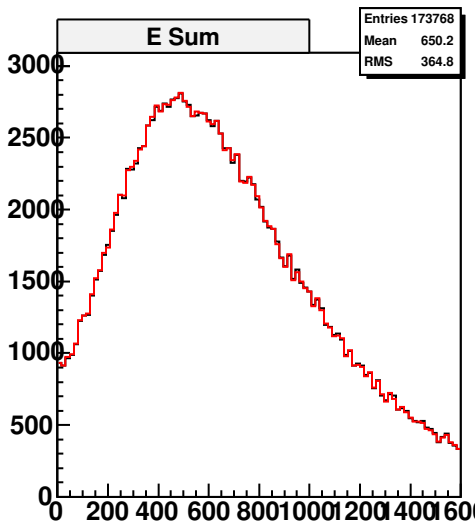



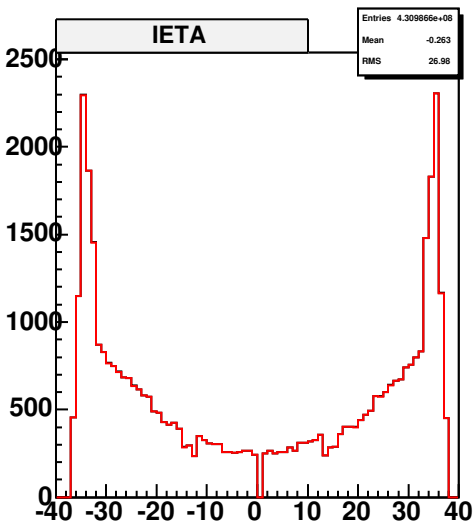

Detector Occupancy (Detector)

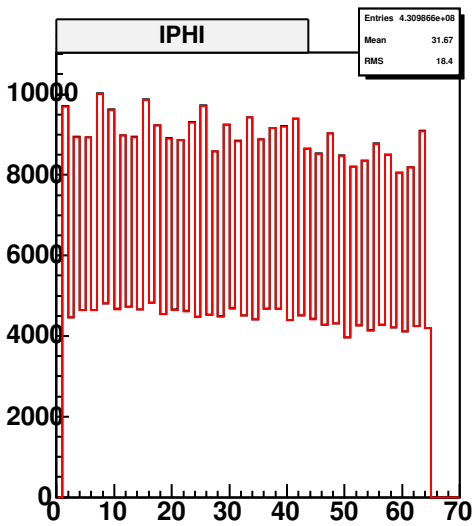

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

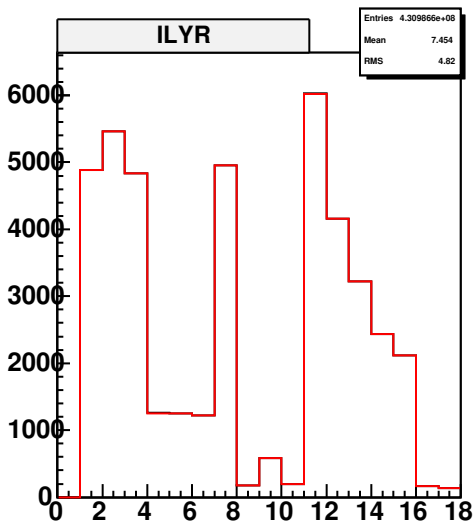


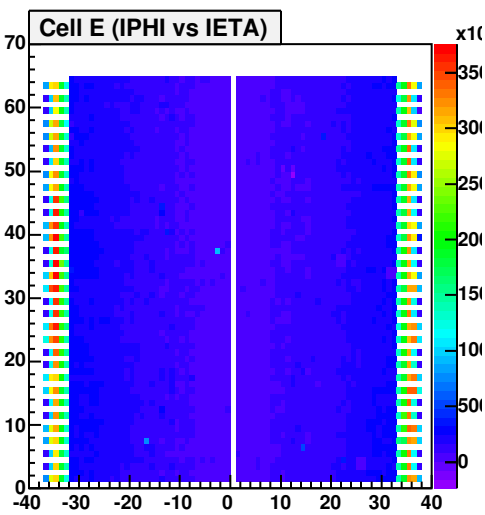



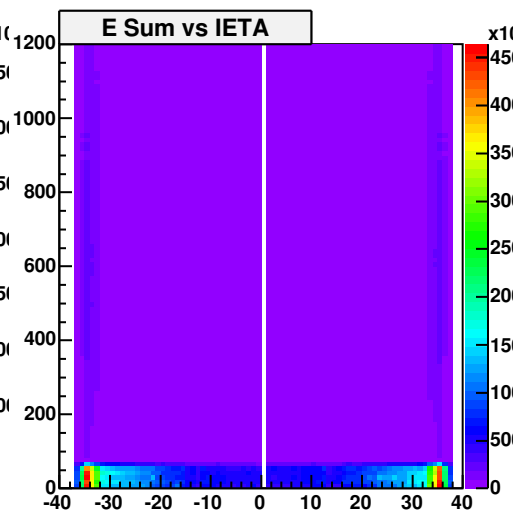



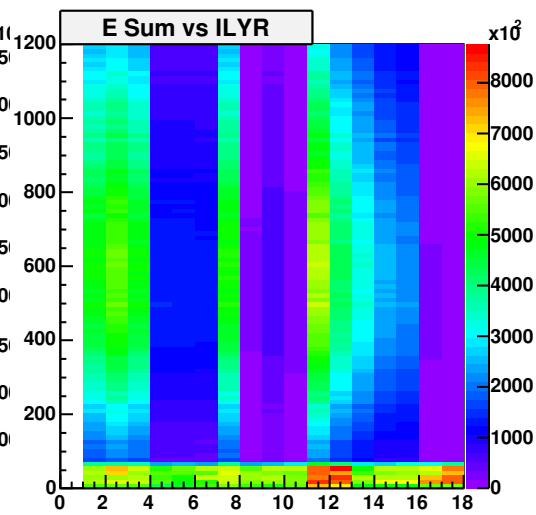



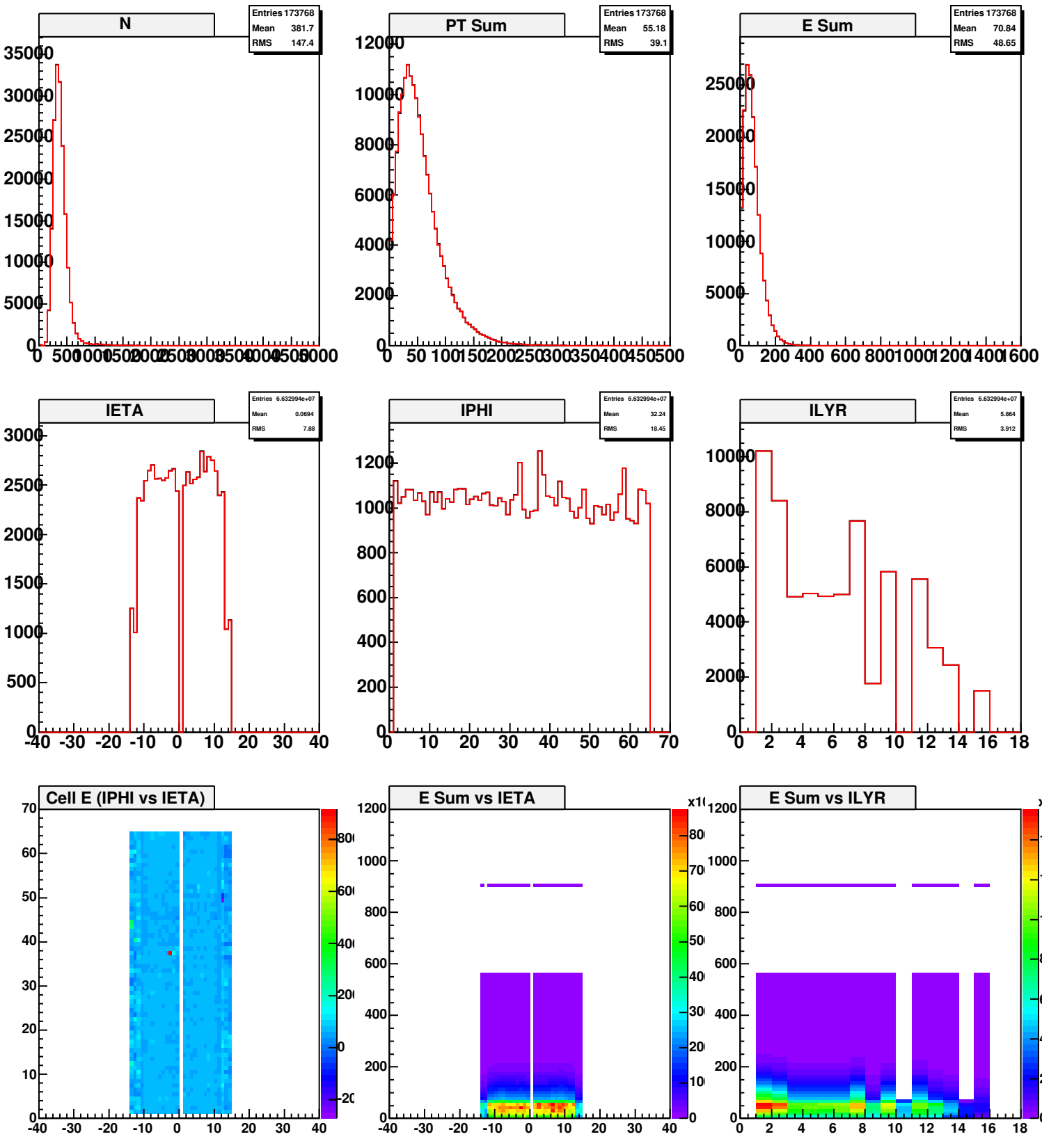



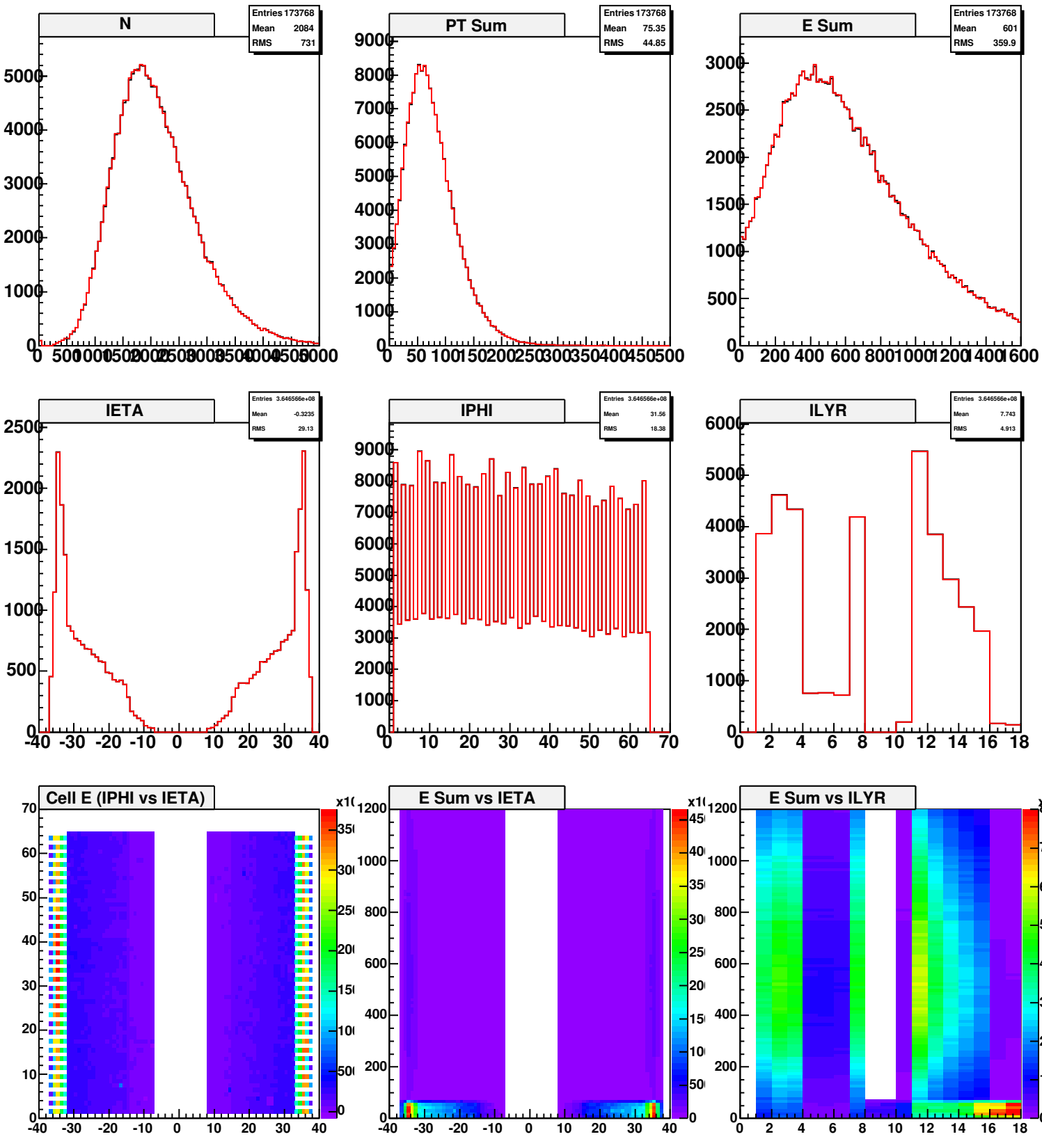



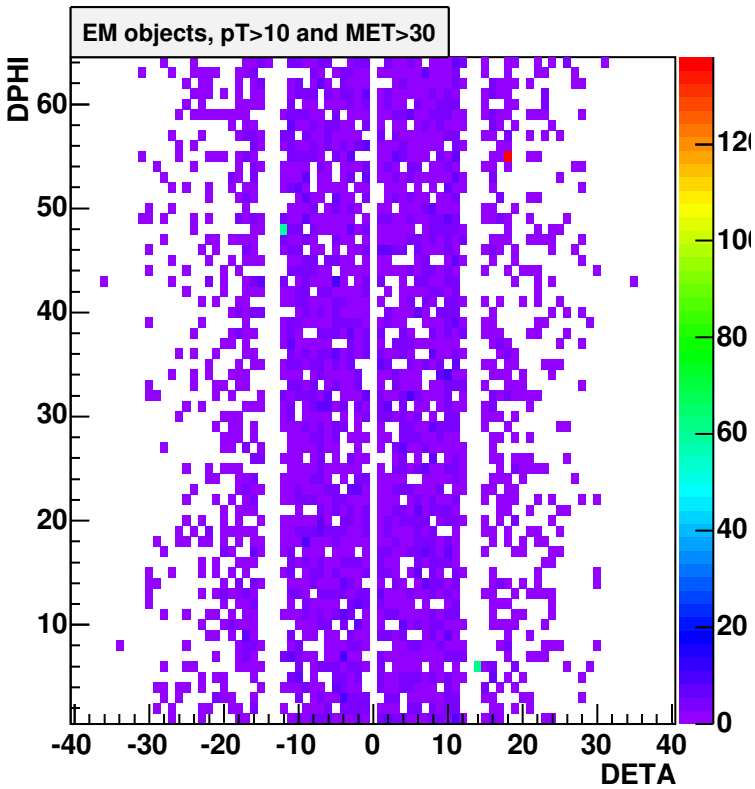

# Calorimeter (All cells)

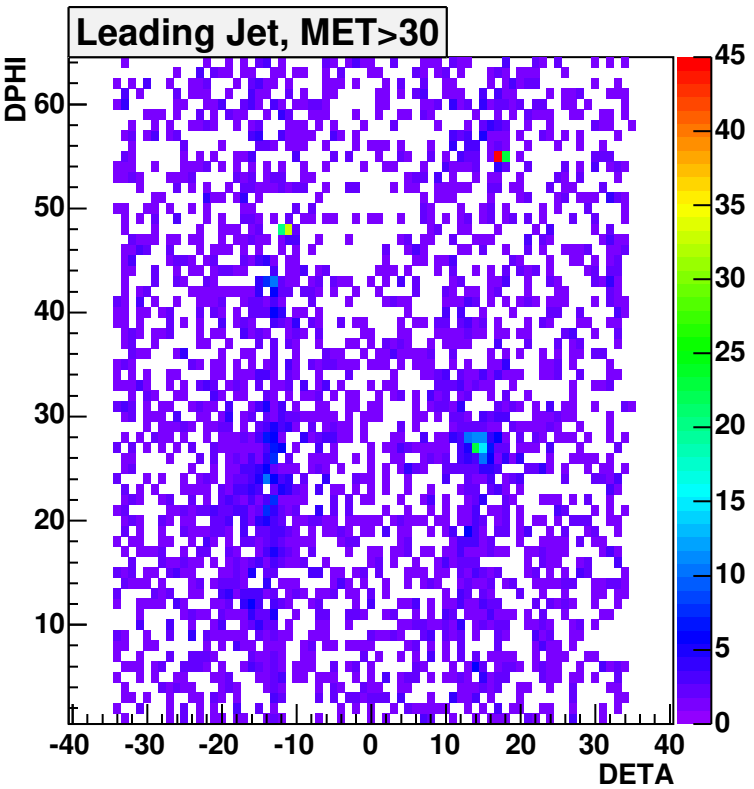


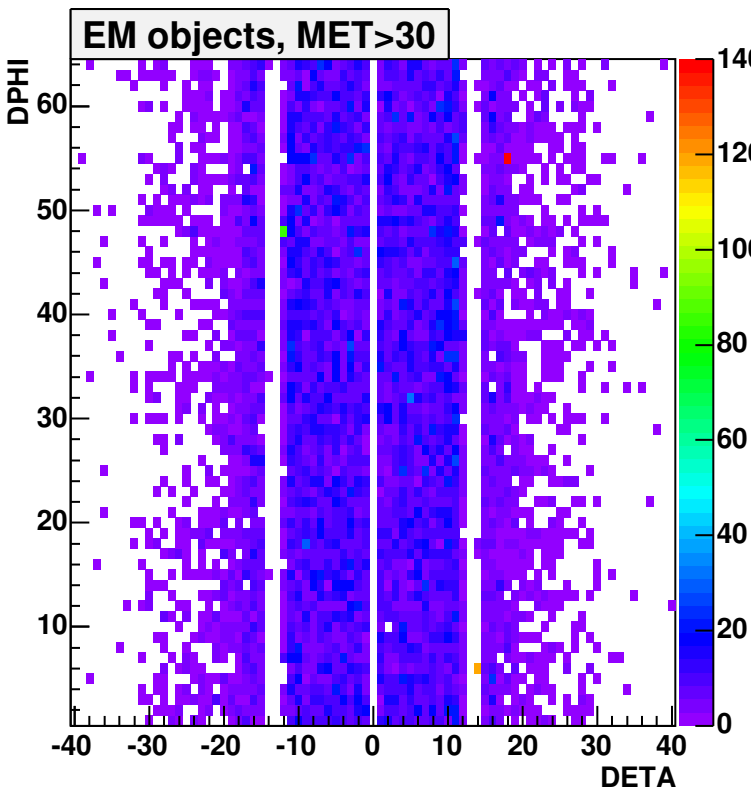

# Calorimeter (All CC cells)



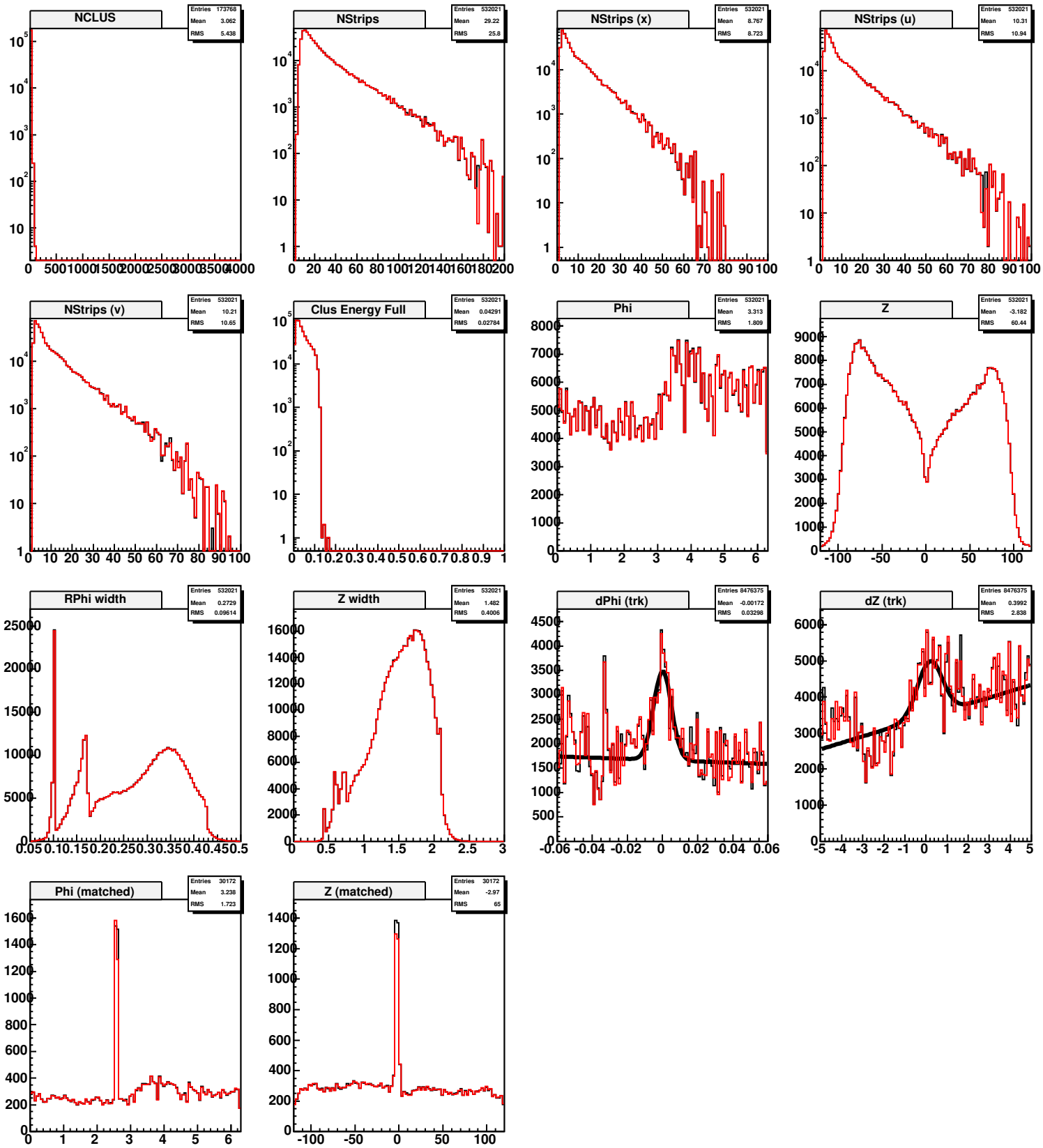

# Calorimeter (All EC cells)



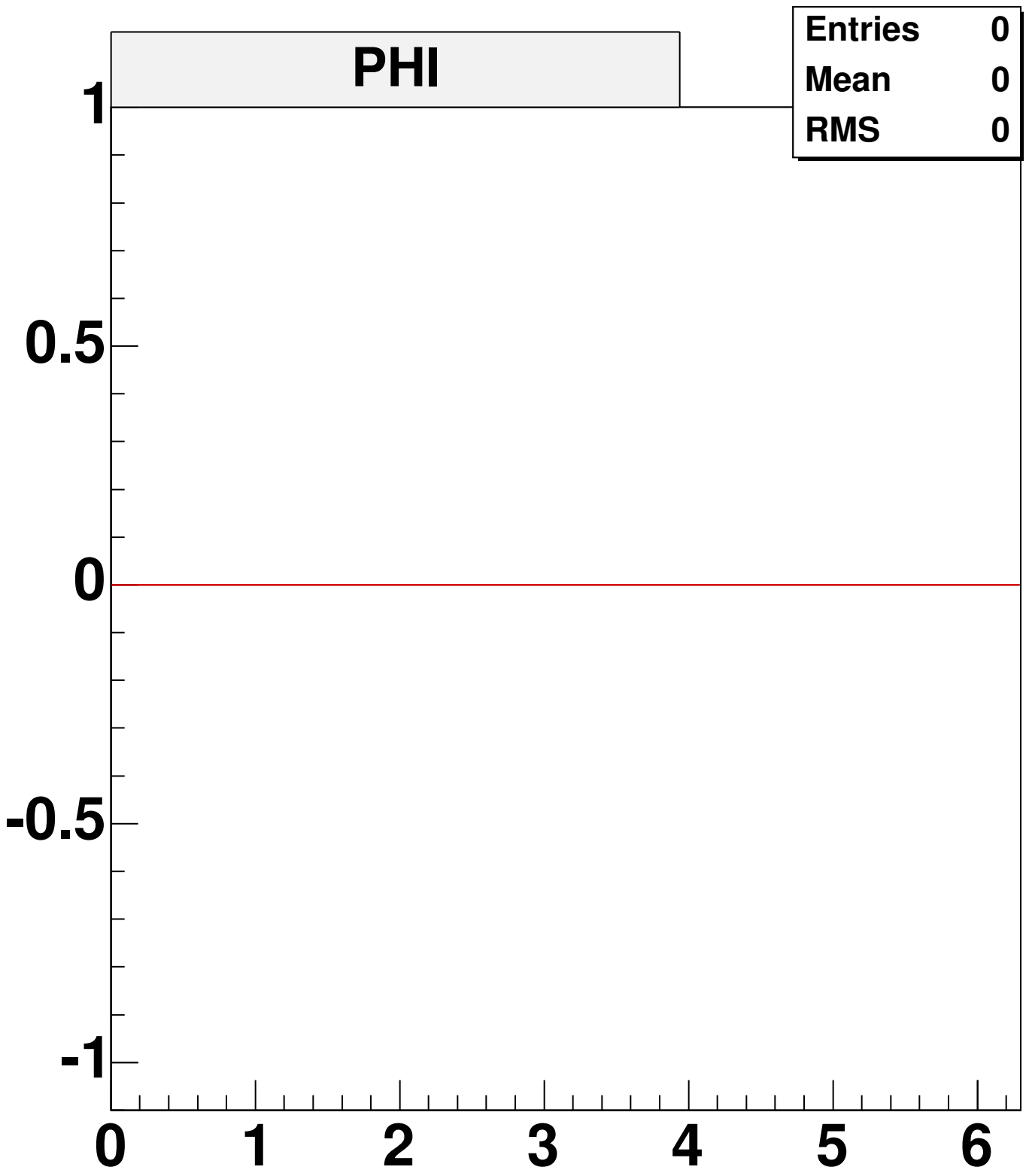



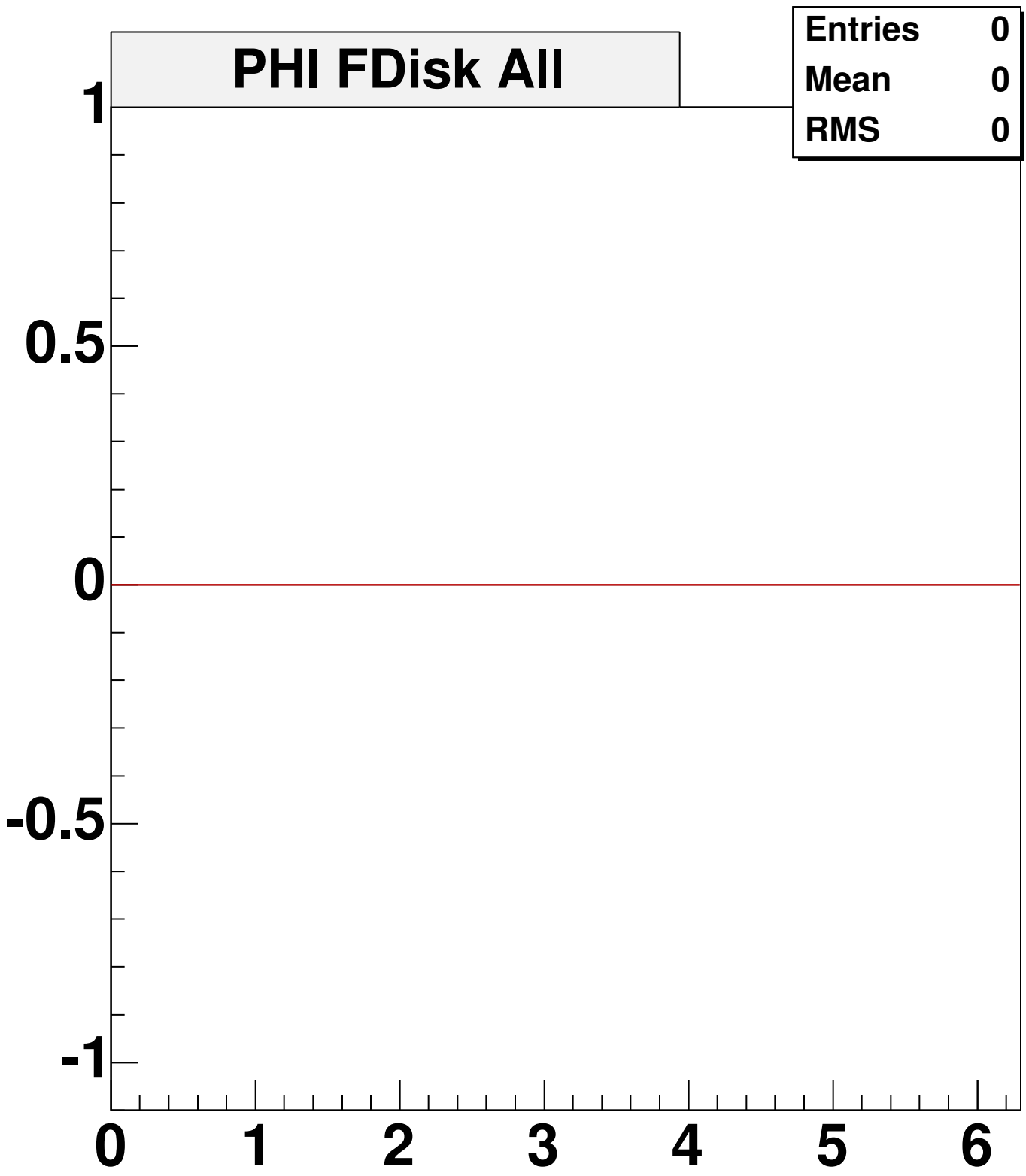



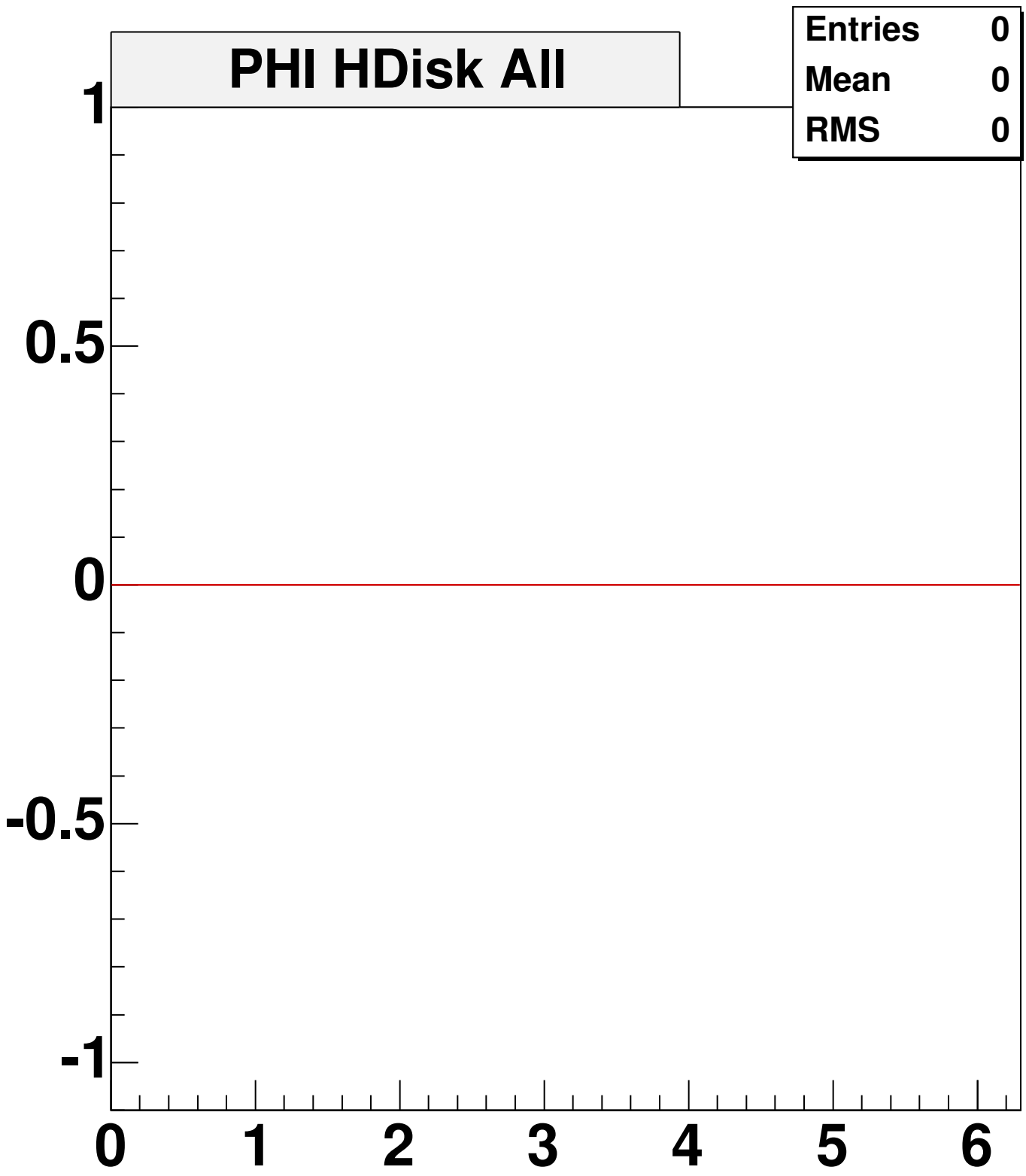

**Cal Objects with MET>30 (All cells)**

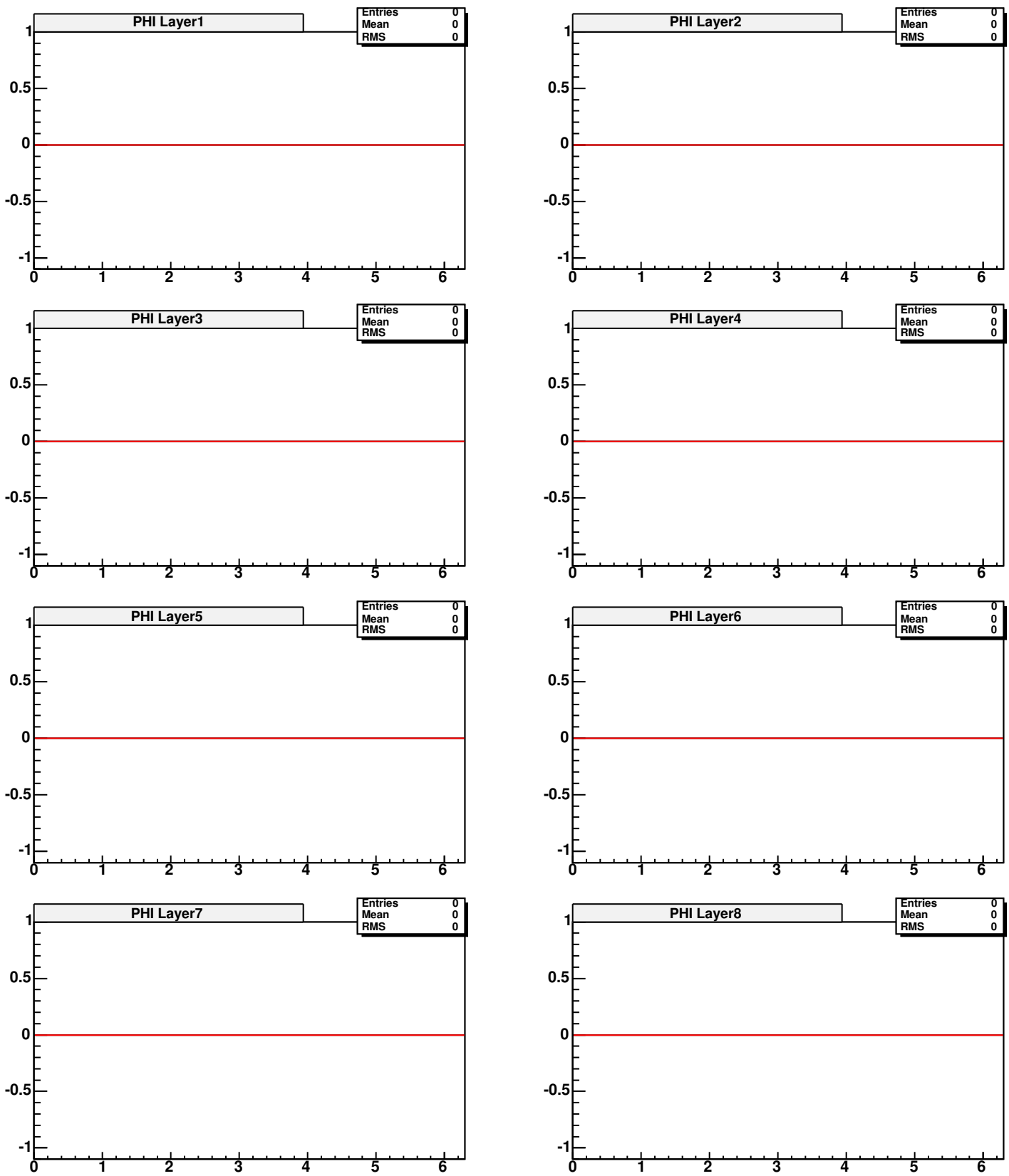



# CPS Clusters (All Clusters)

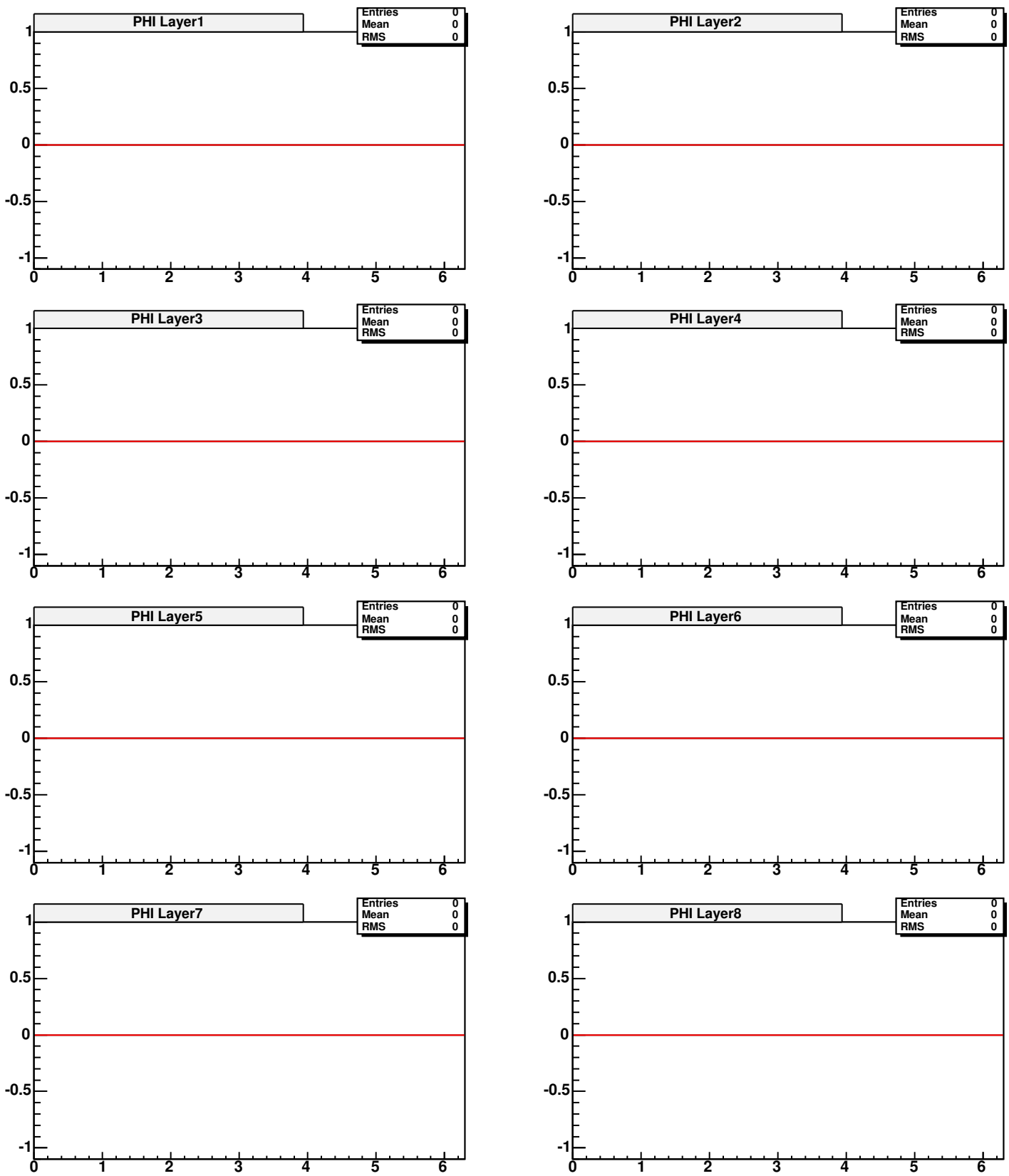

PHI
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

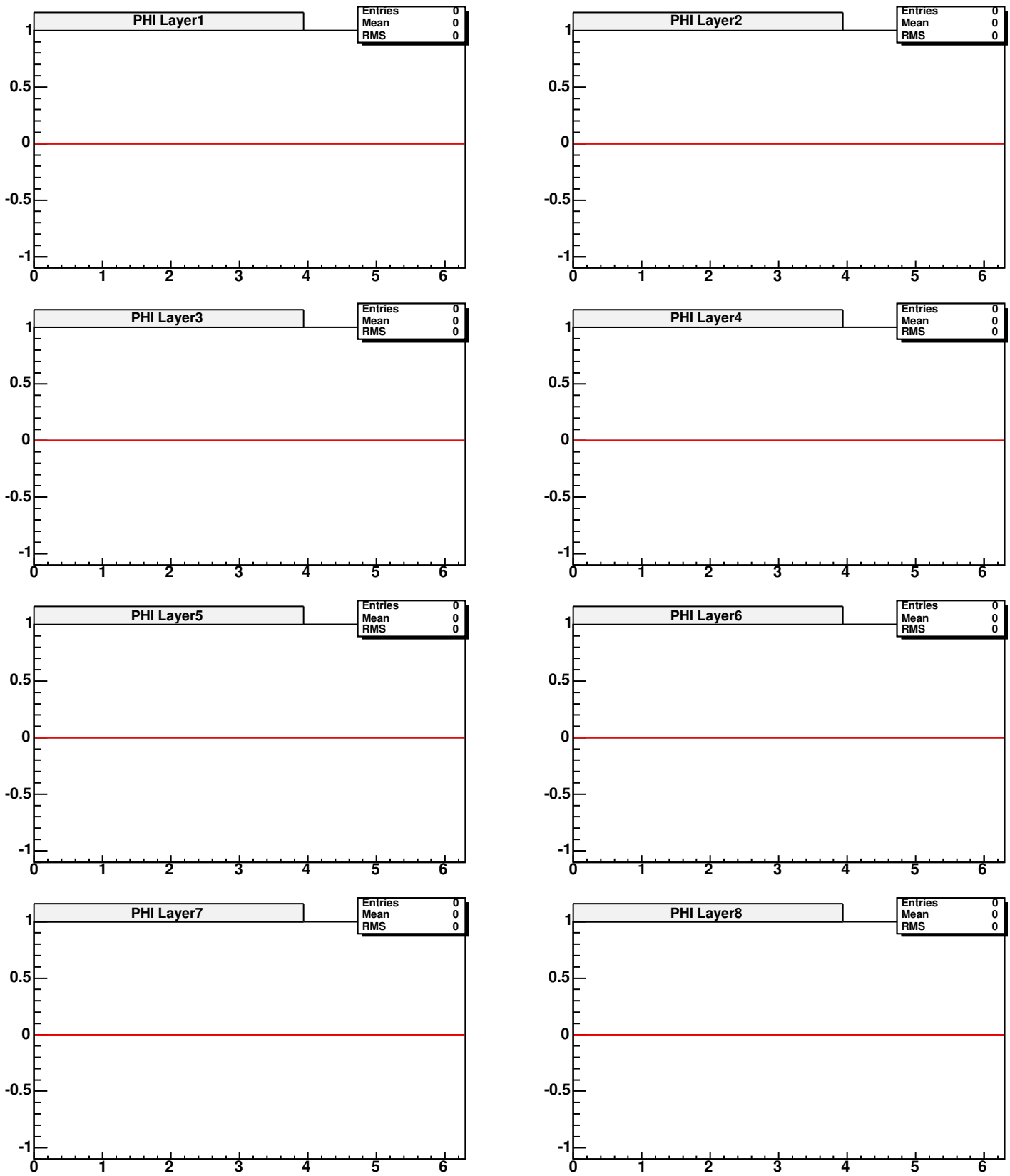

PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



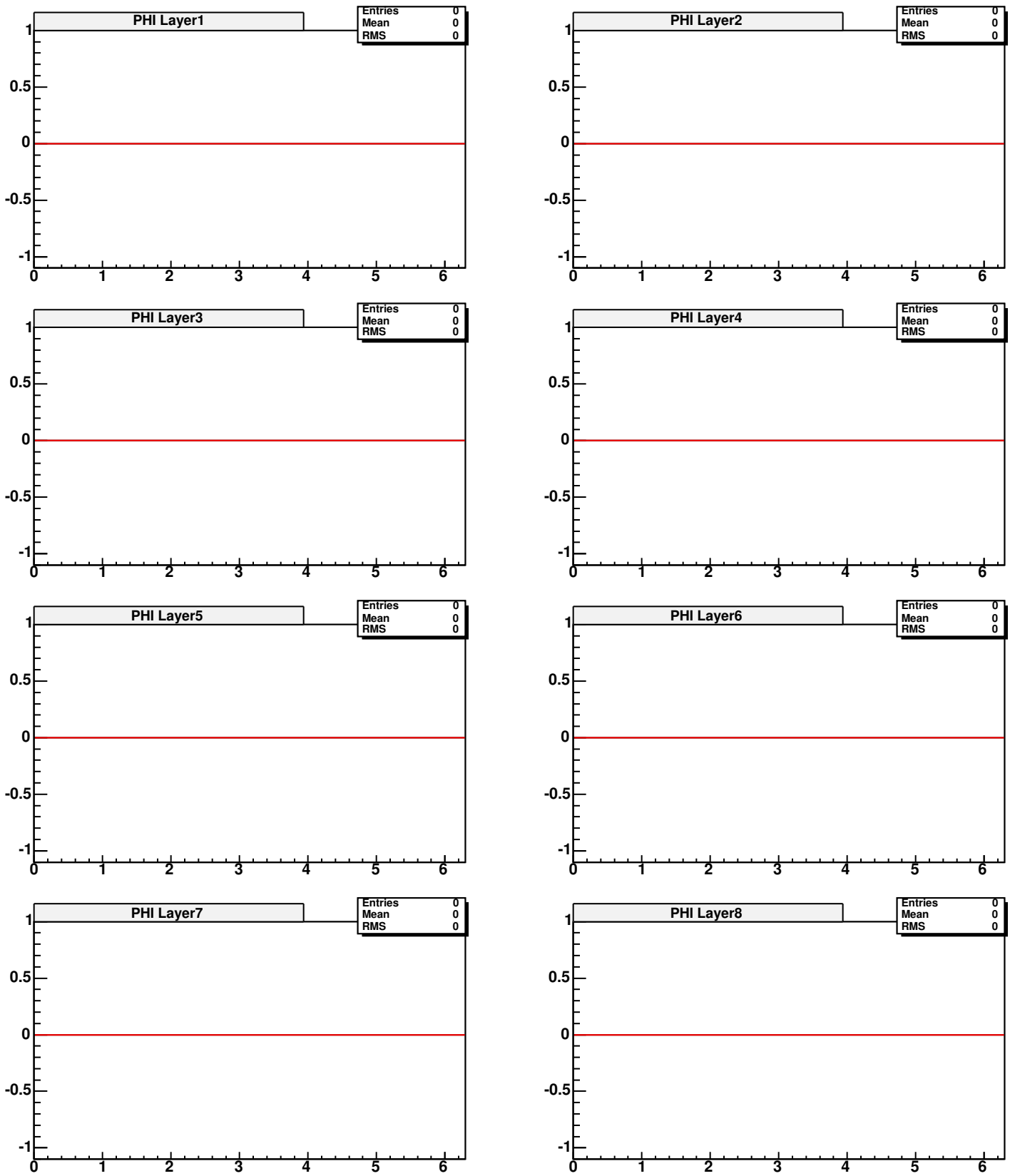

# SmtClusters (ClustrBar1)



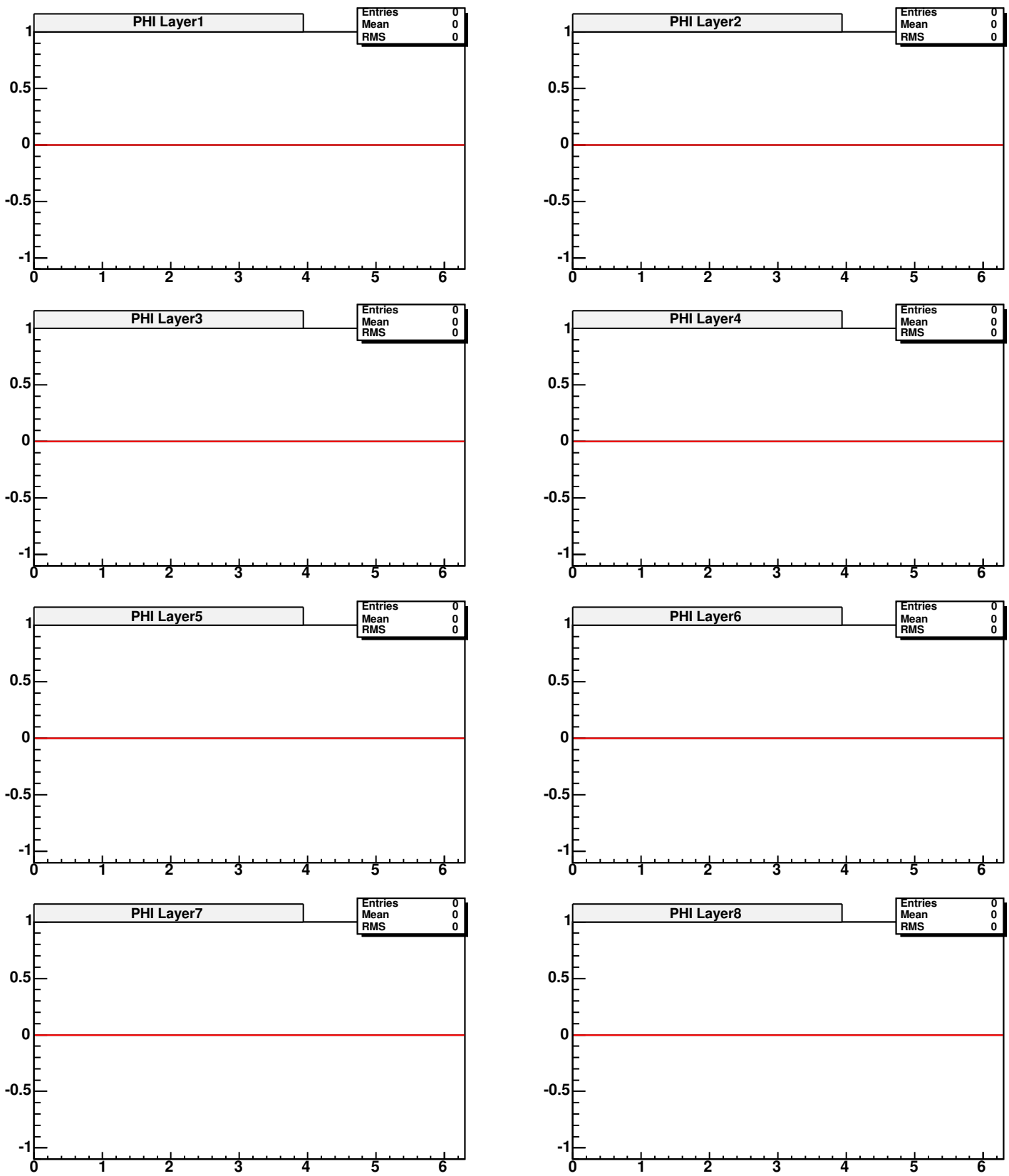

# SmtClusters (ClustrBar2)



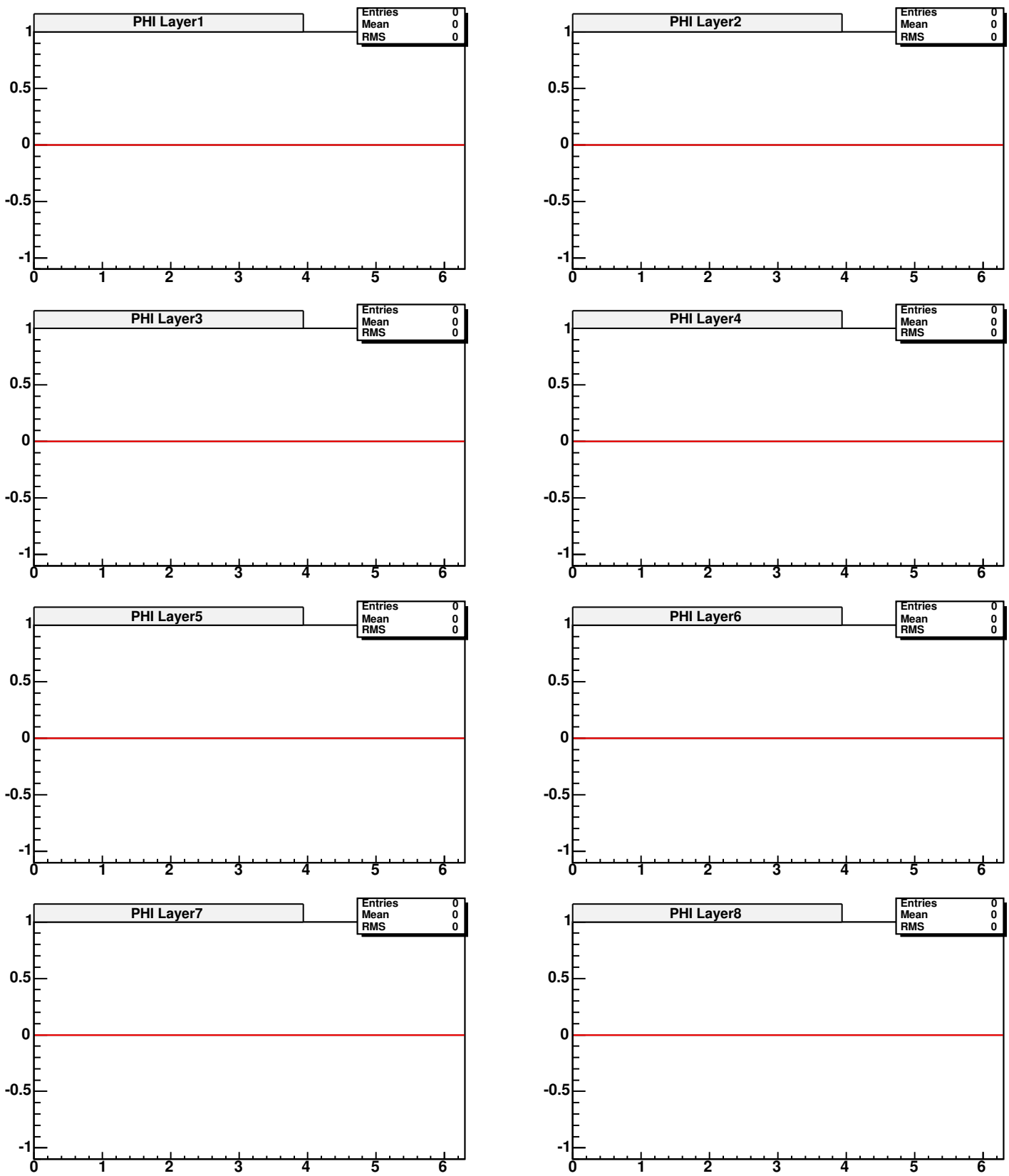

# SmtClusters (ClustrBar3)



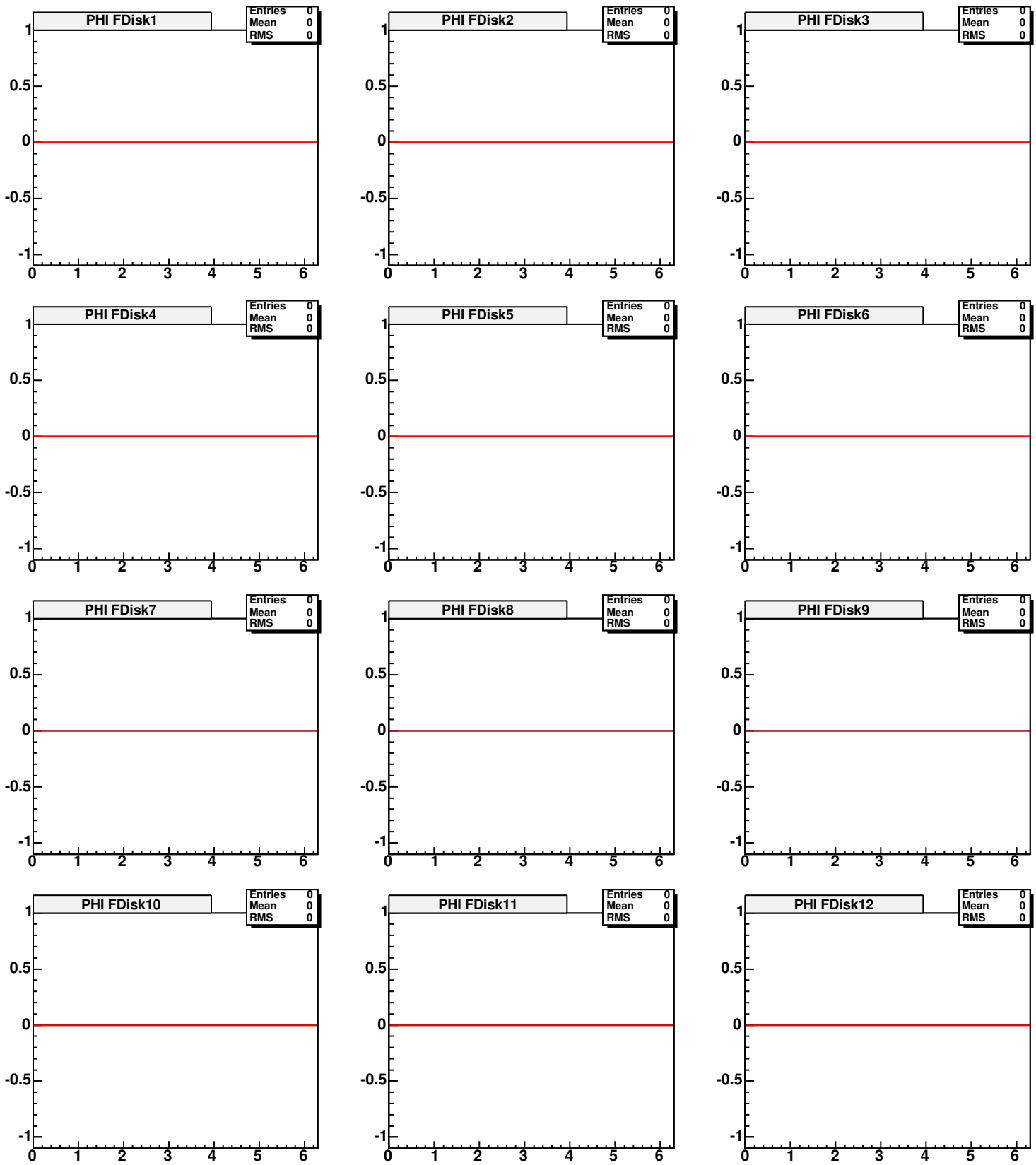

# SmtClusters (ClustrBar4)



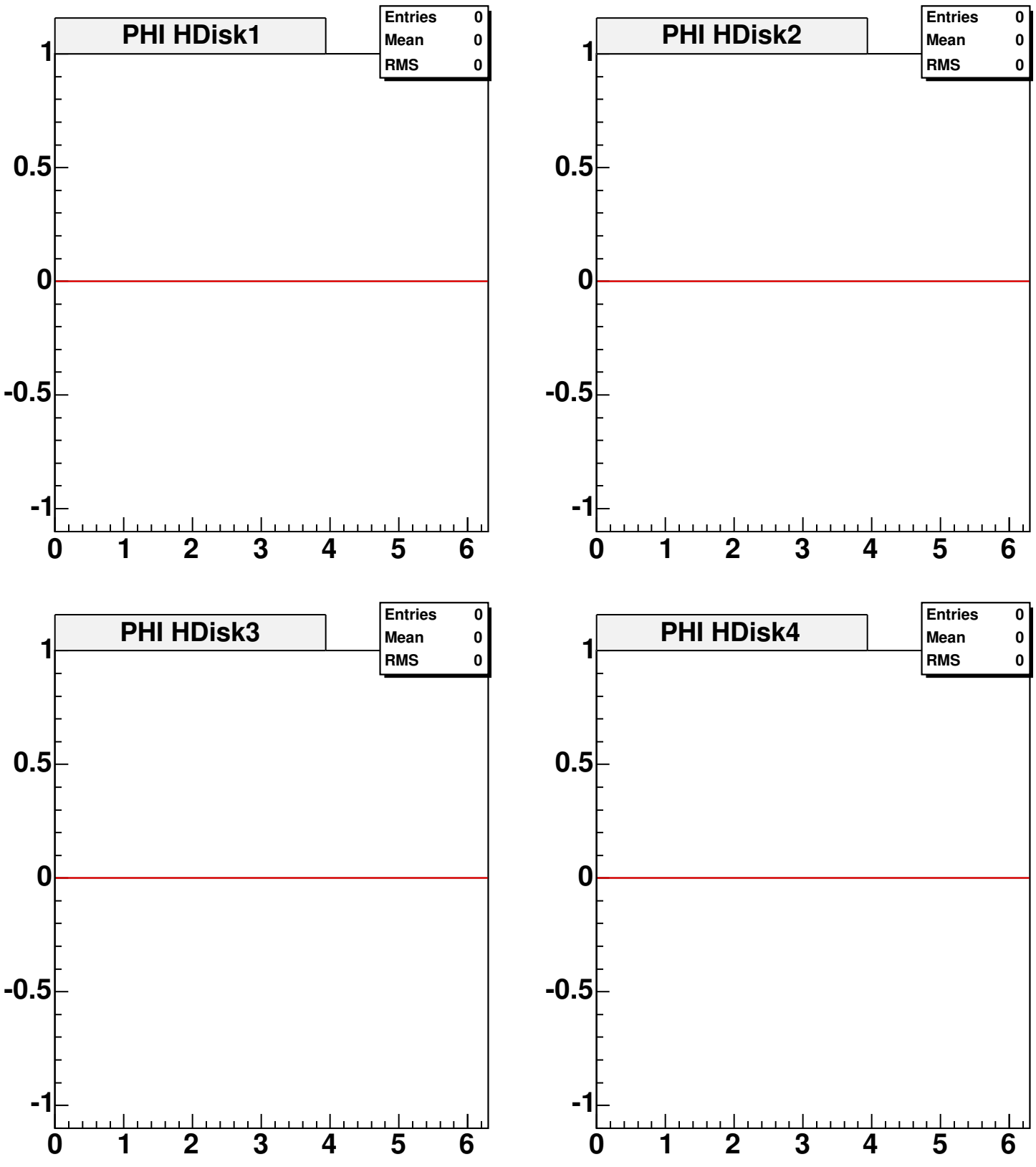

# SmtClusters (ClustrBar5)



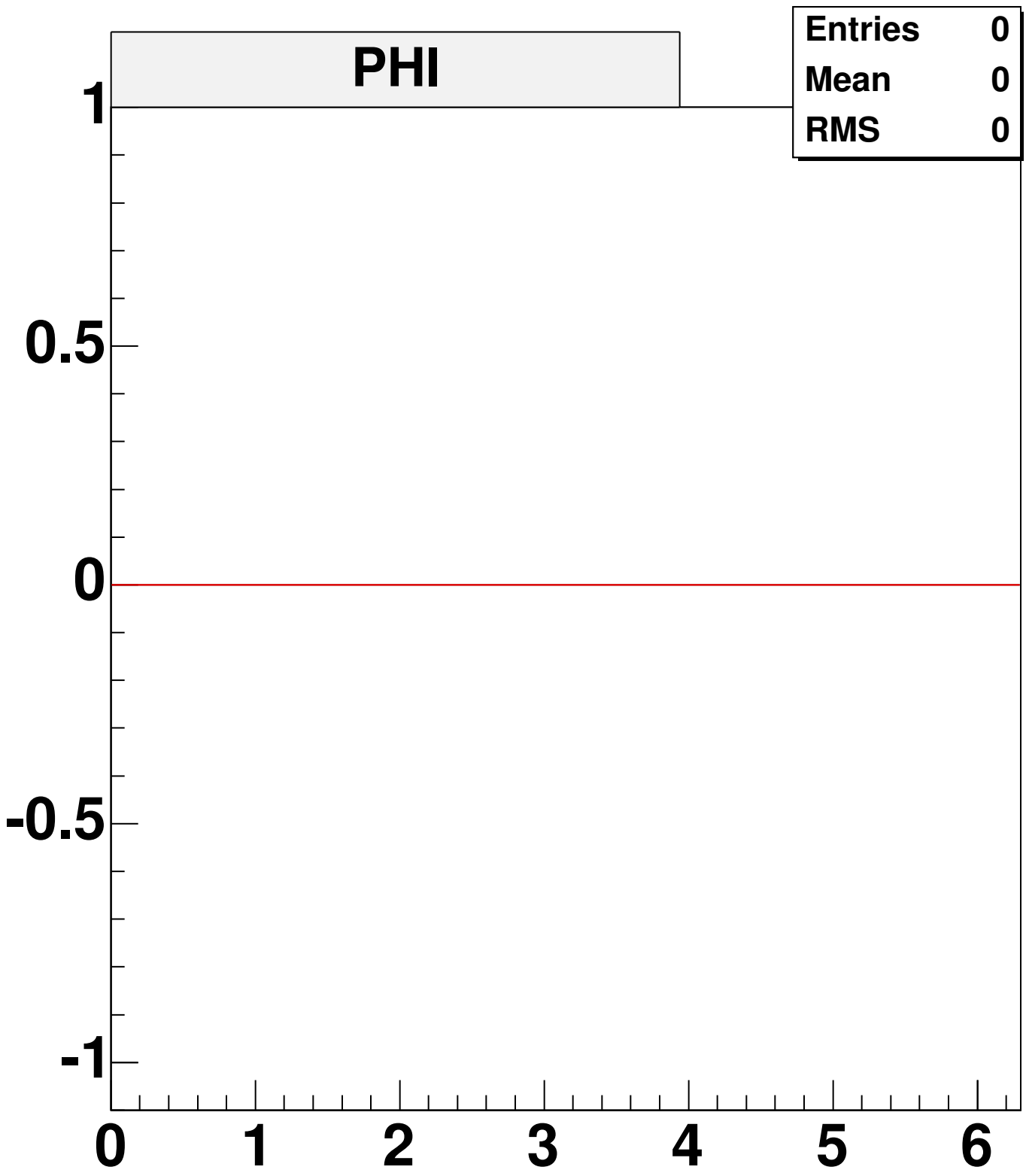

# SmtClusters (ClustrBar6)

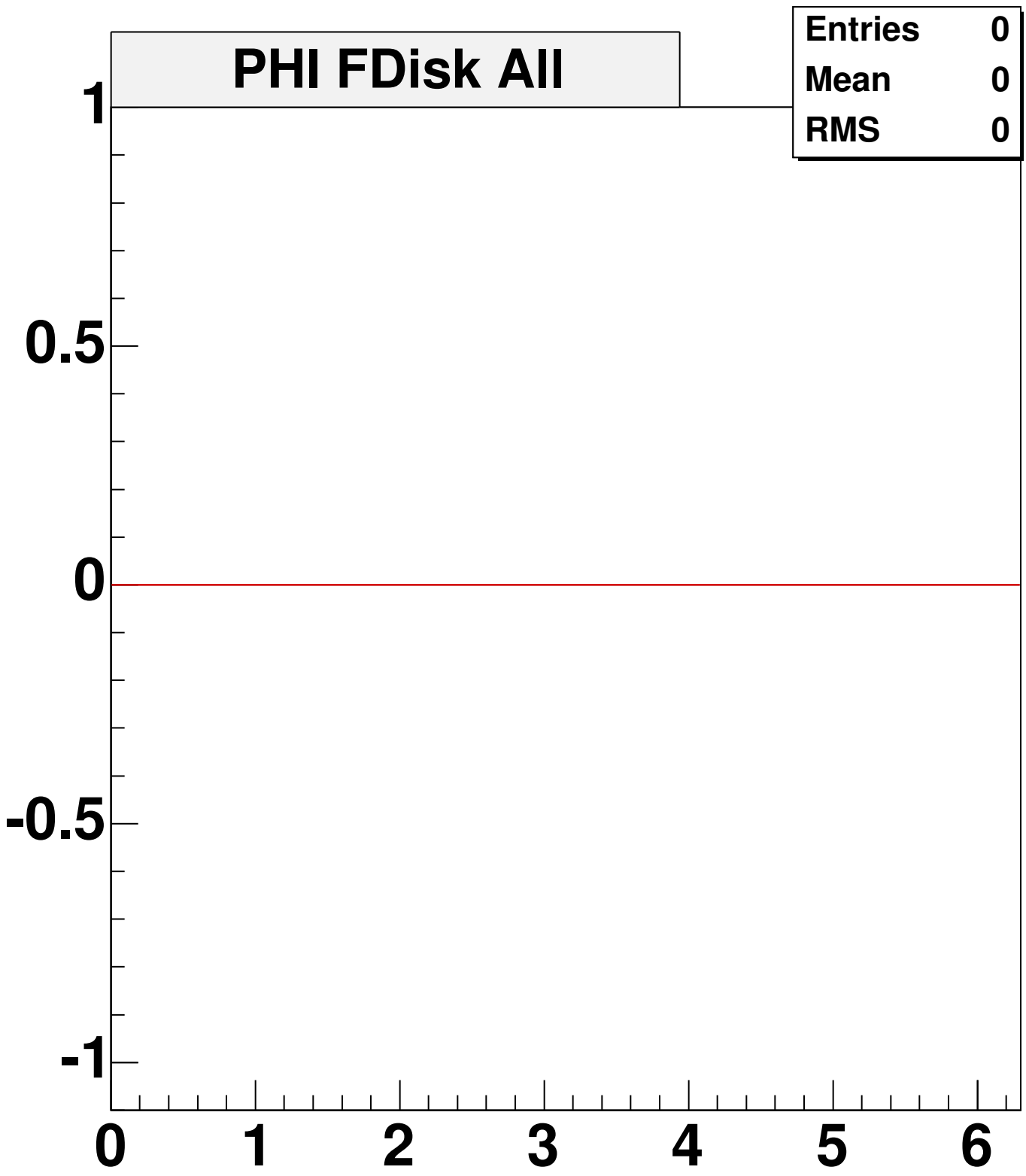


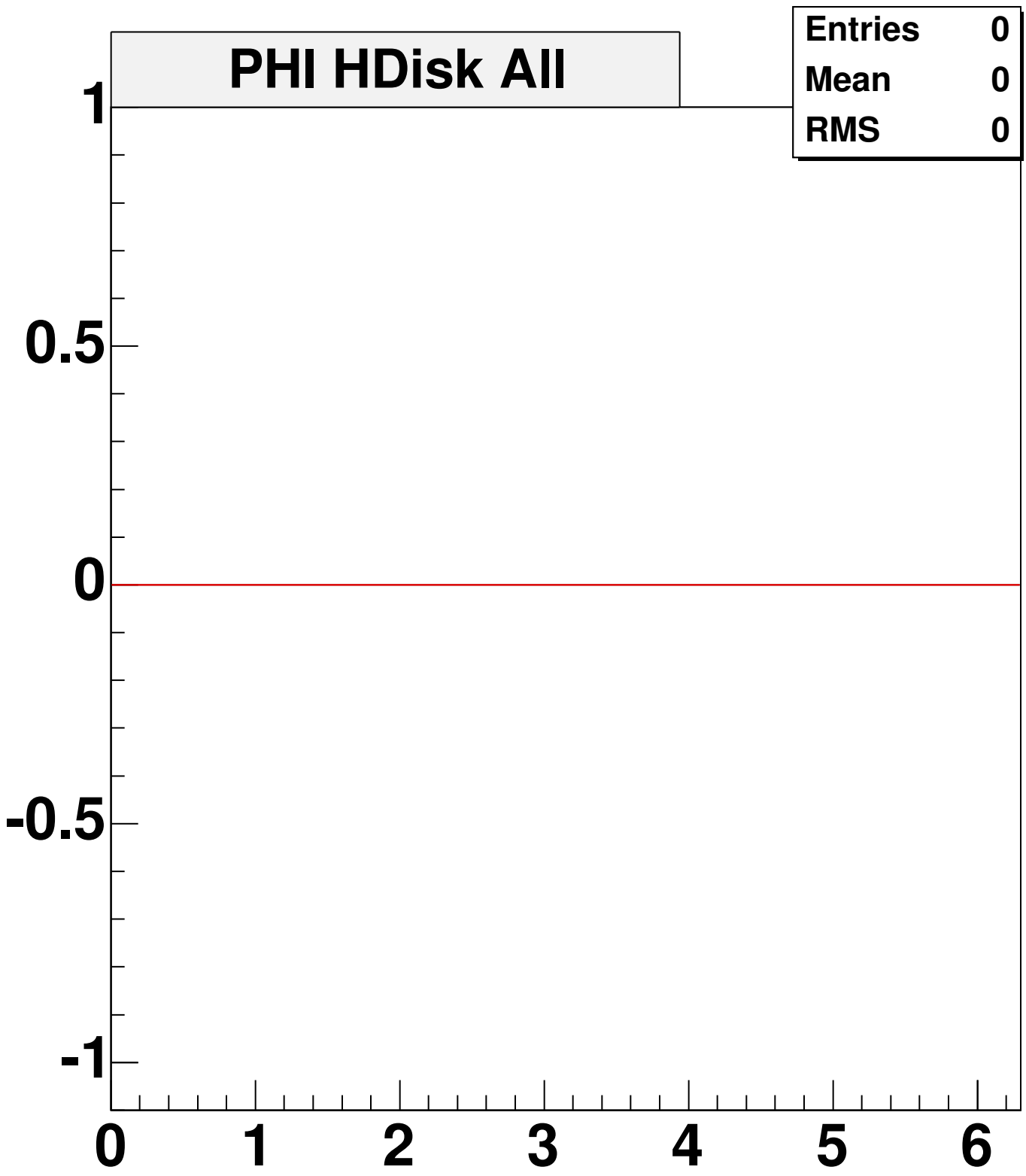

# SmtClusters (FDiskClusters)

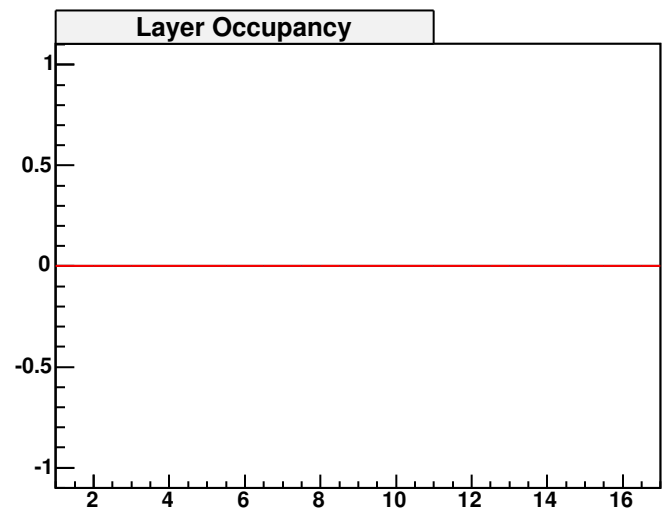


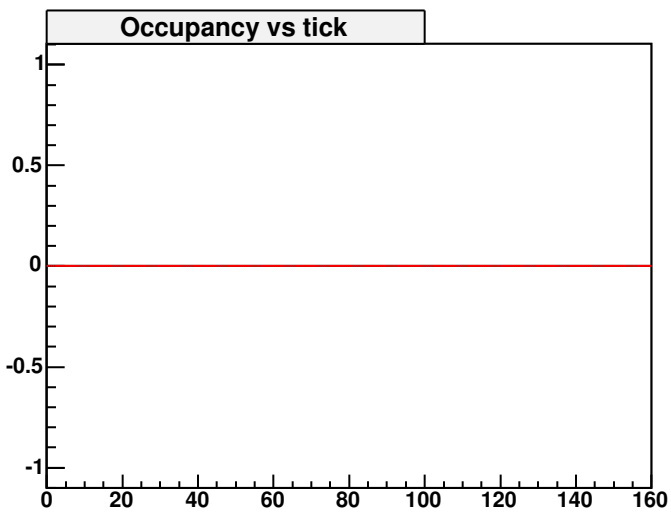

SmtClusters (HDiskClusters)

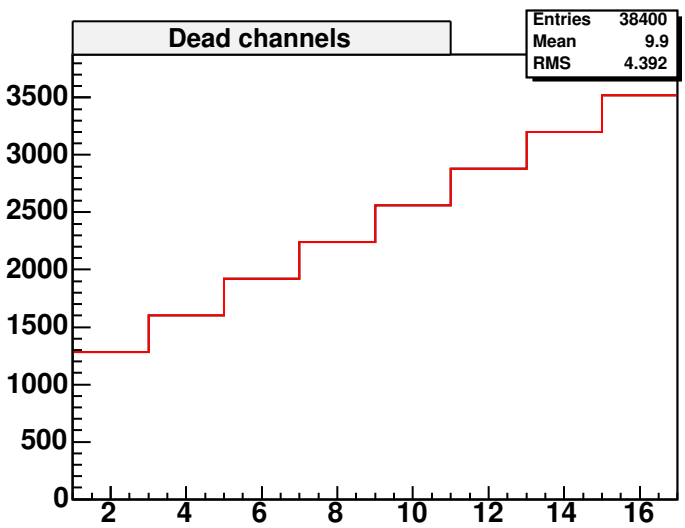

PHI
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)

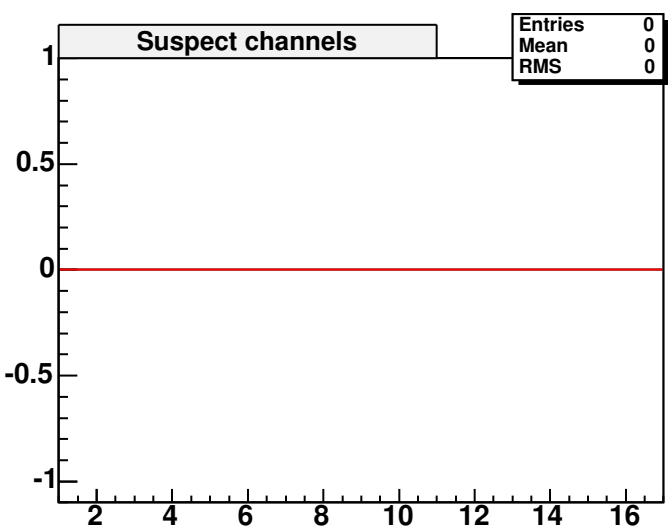

PHI FDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allFDiskTClusters)

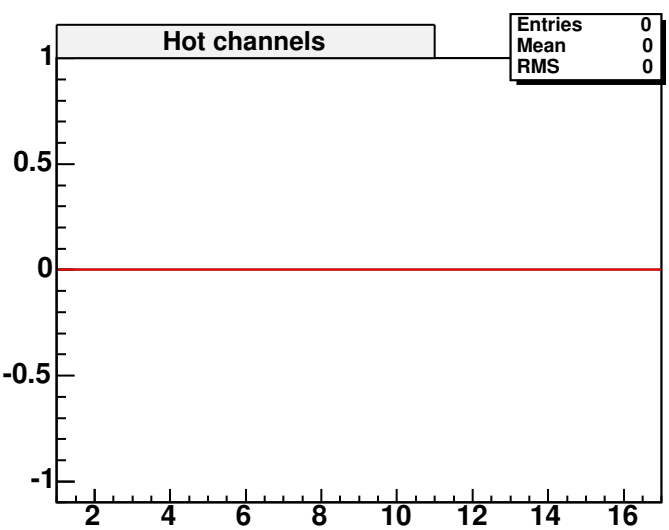

PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allHDiskTClusters)



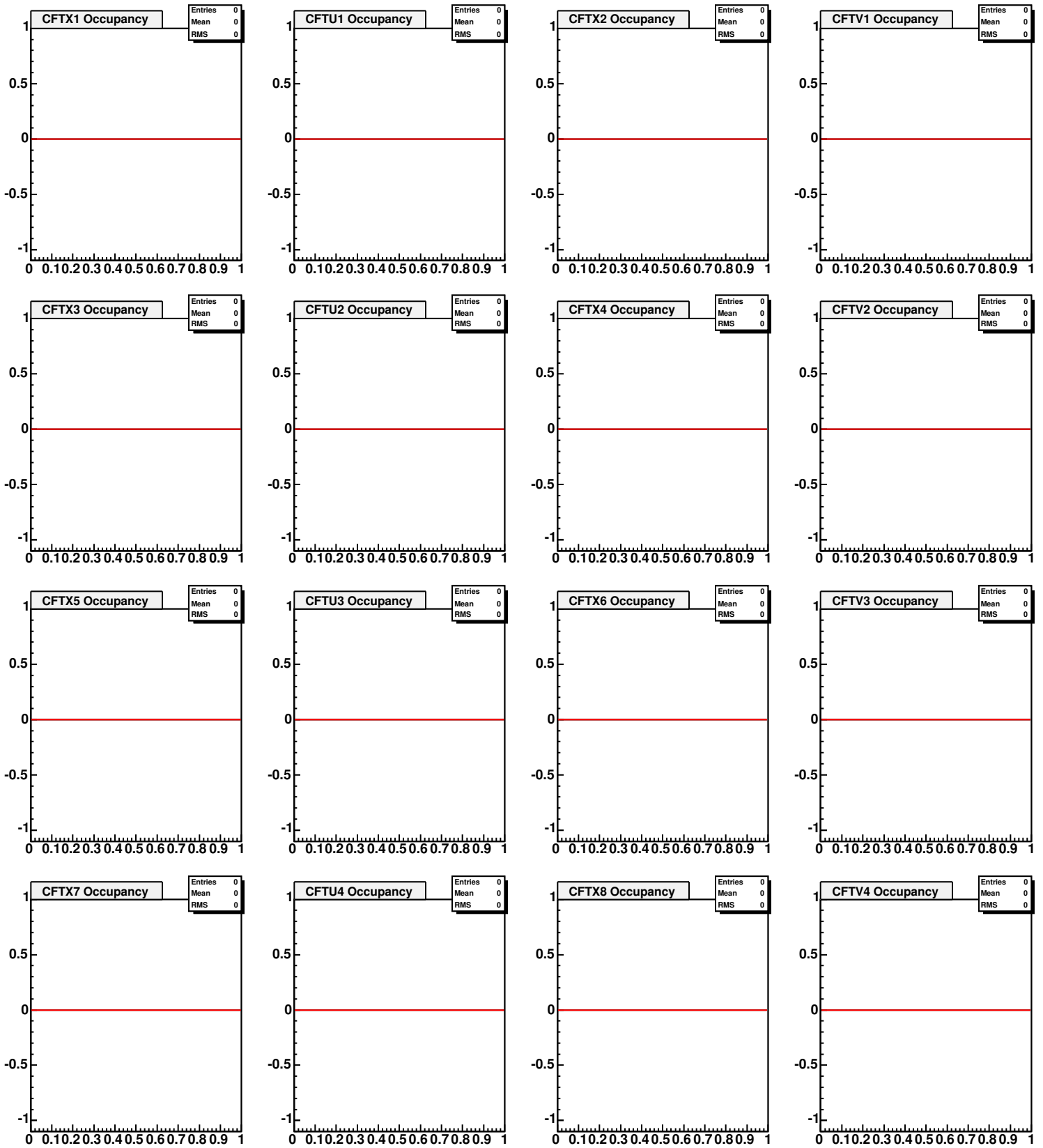





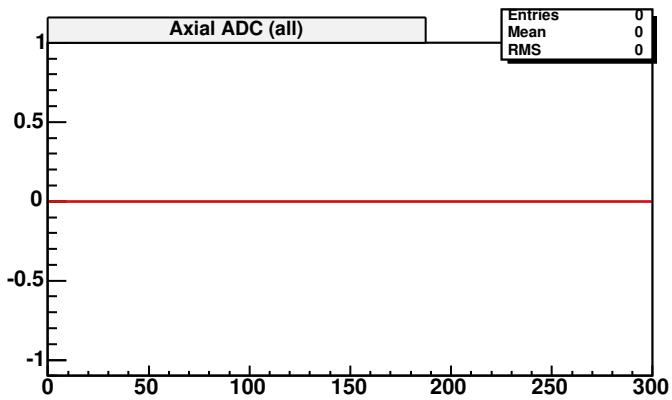



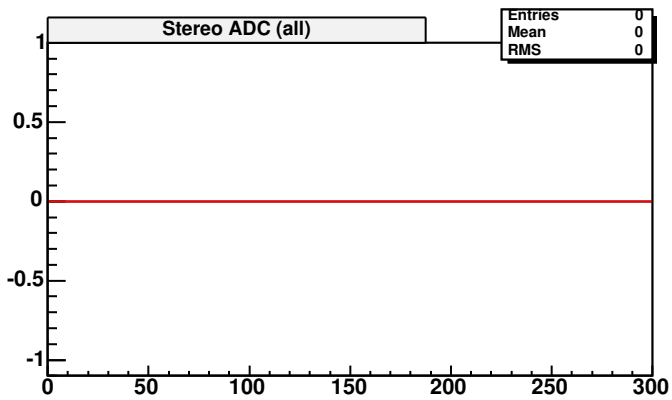



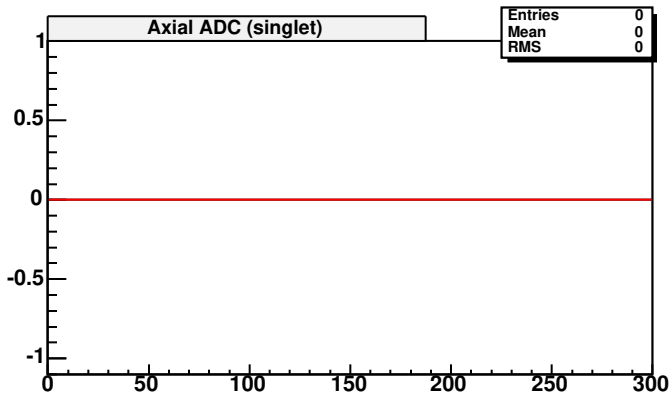

# CFT Summary (All Clusters)

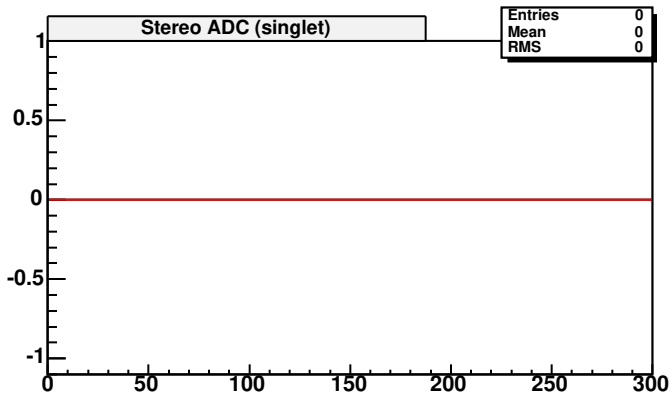


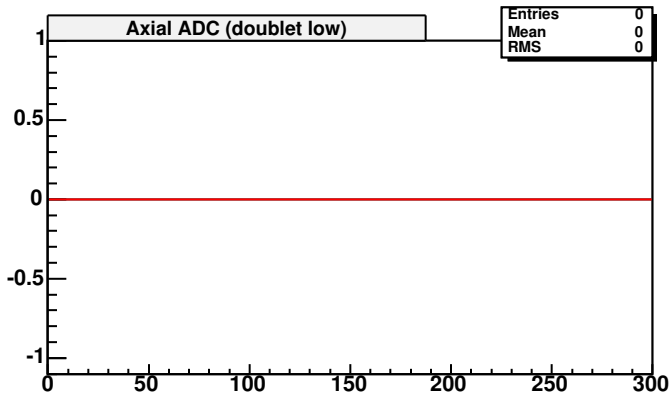

# Cft Occupancy (All Clusters)

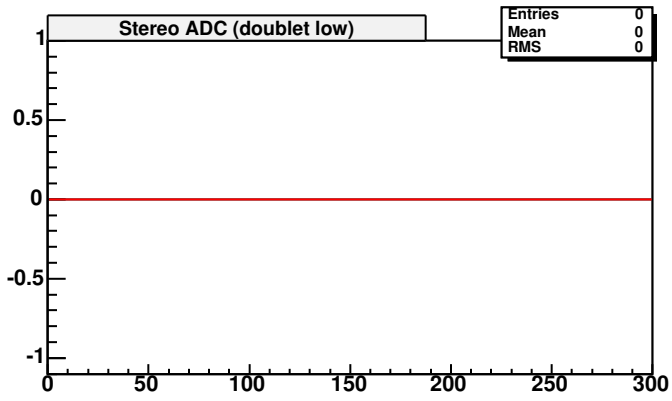


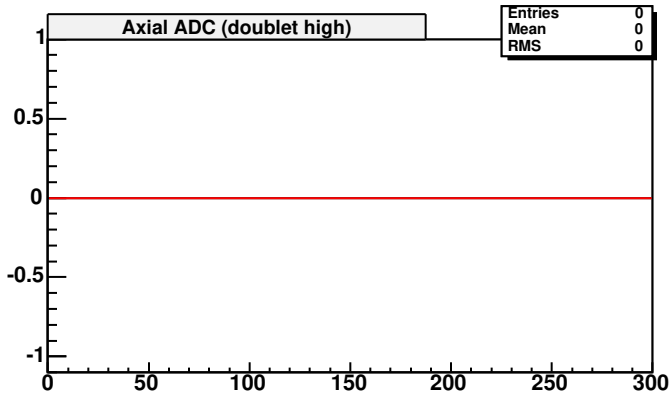



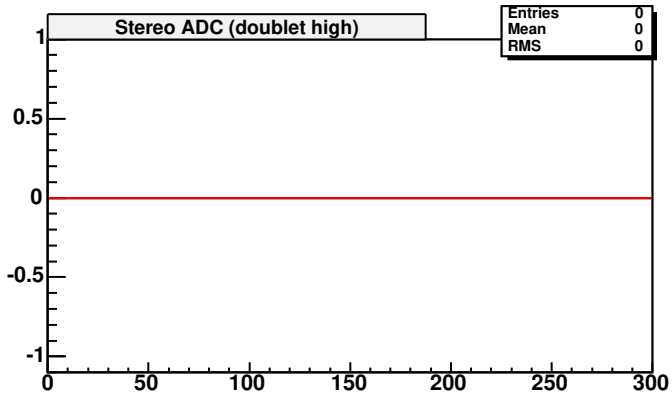



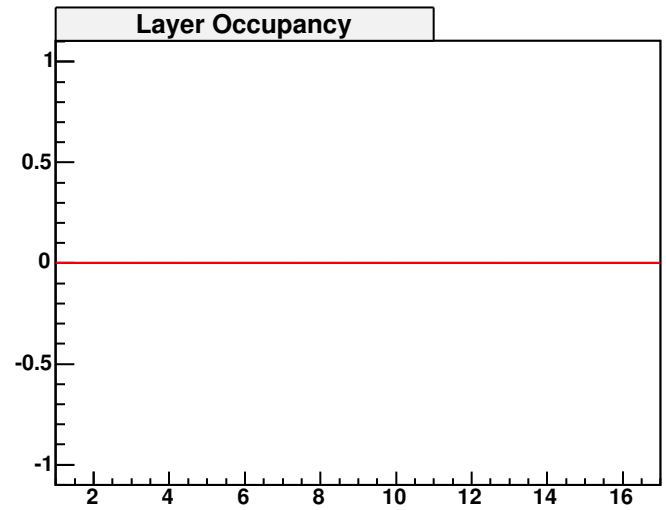



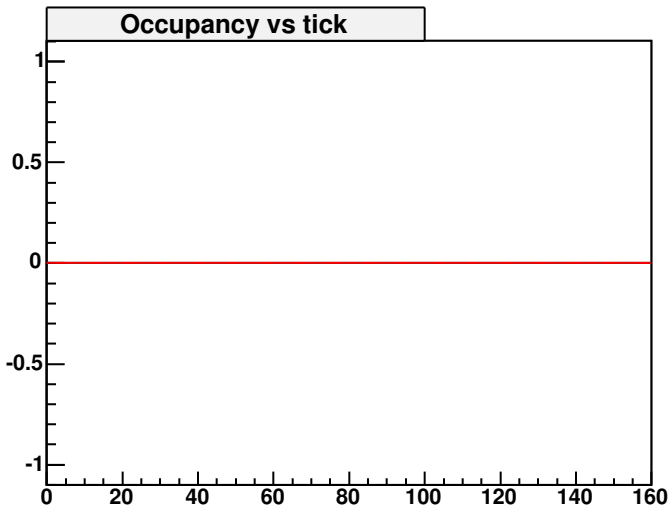



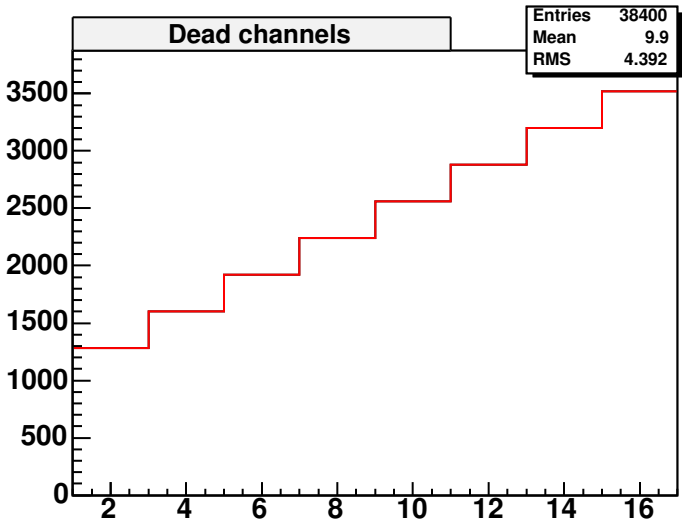



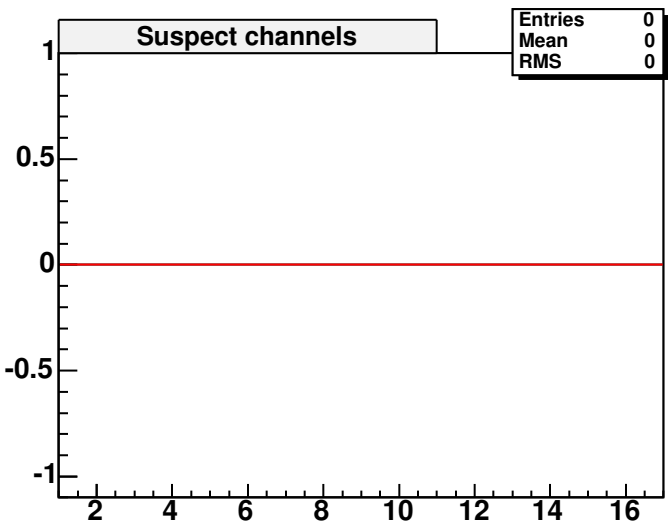



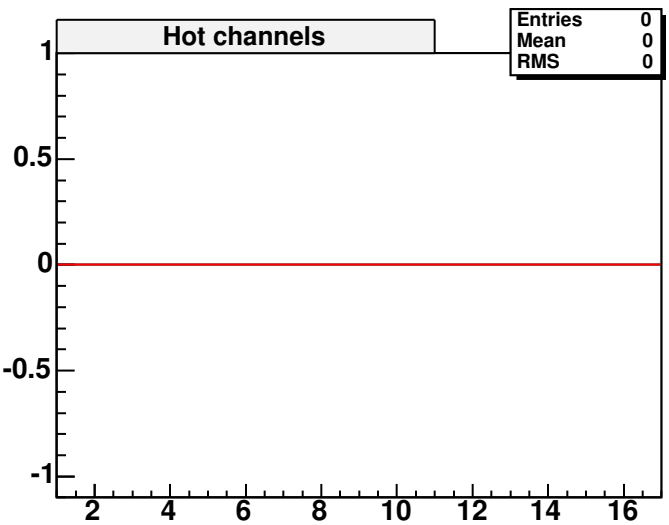

# CFT ADC Summary (All Clusters)



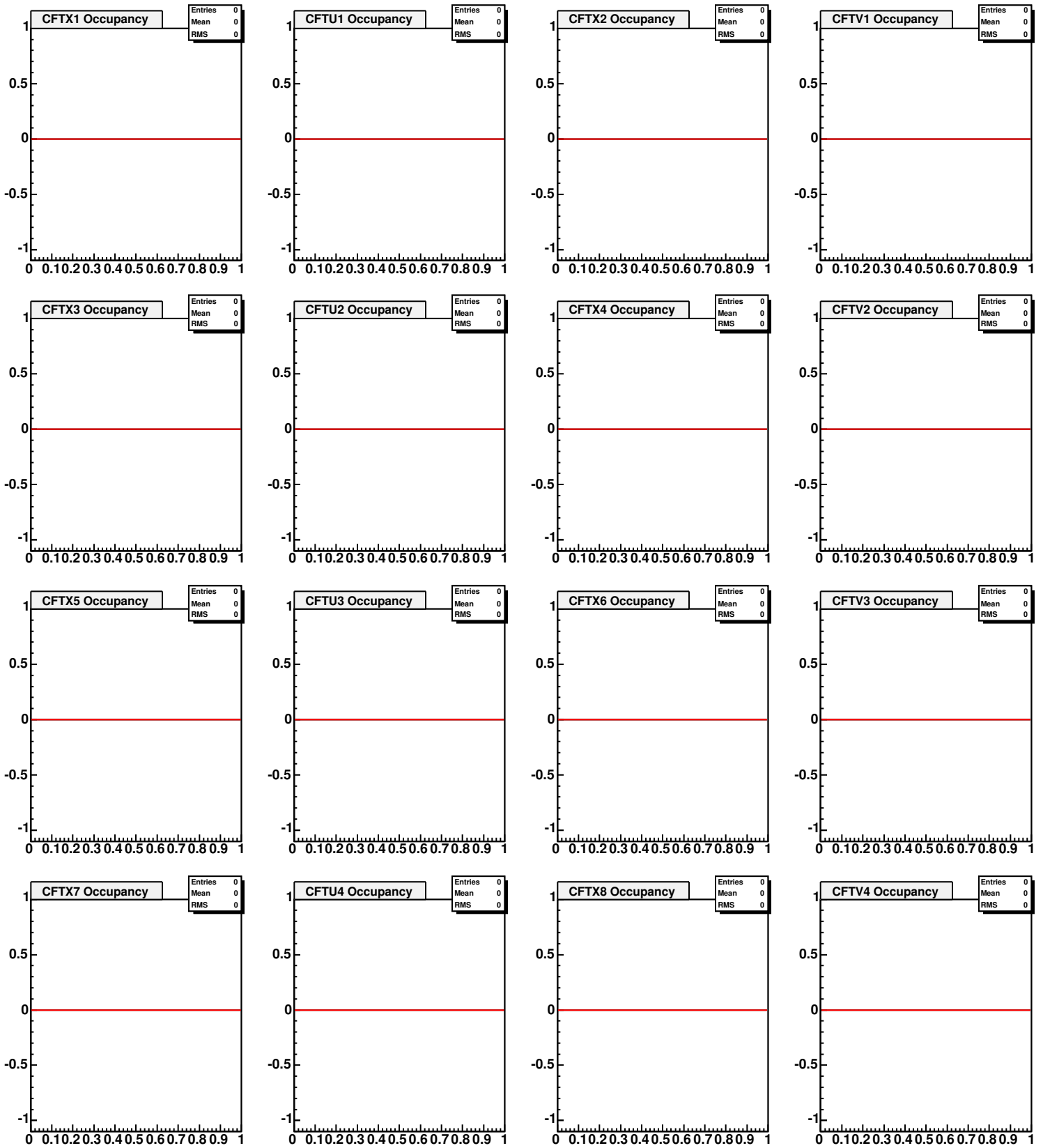





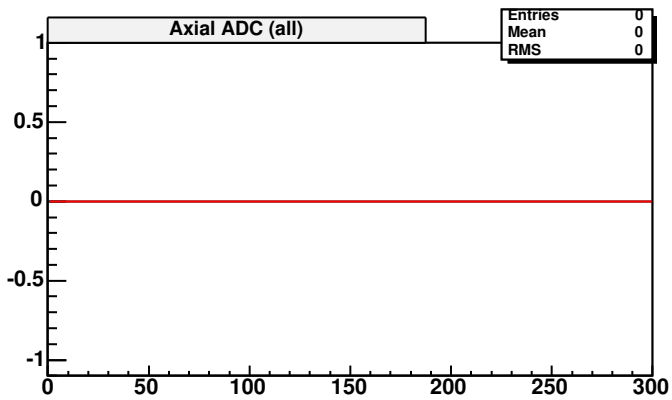



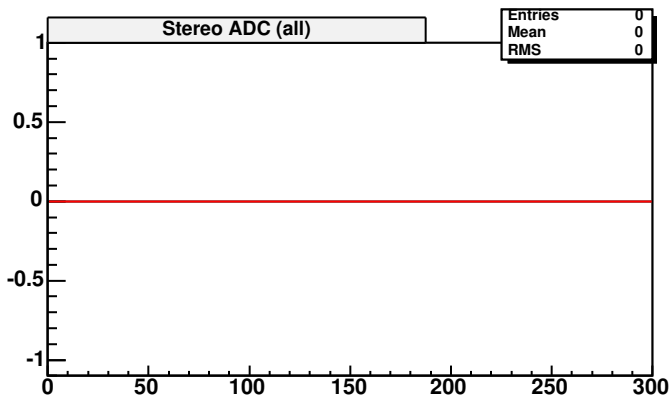



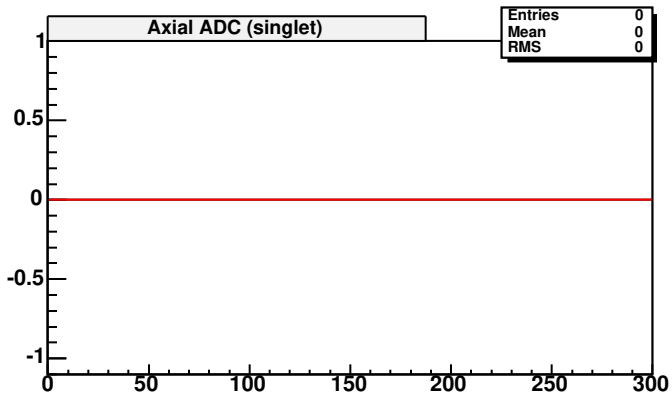

# CFT Summary (Clusters on tracks)

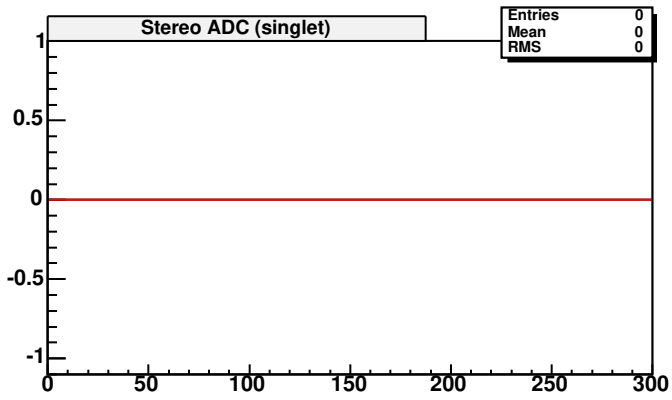


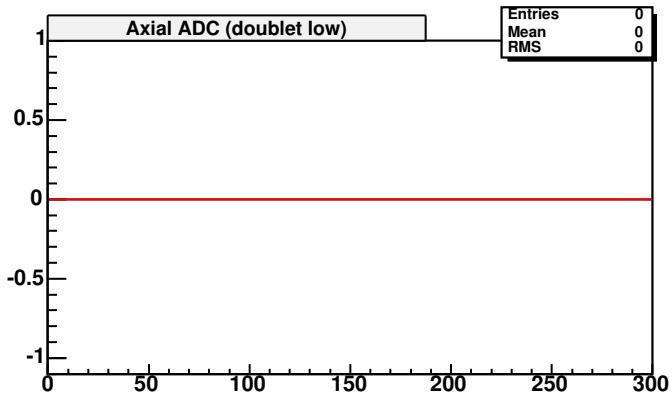

# Cft Occupancy (Clusters on tracks)

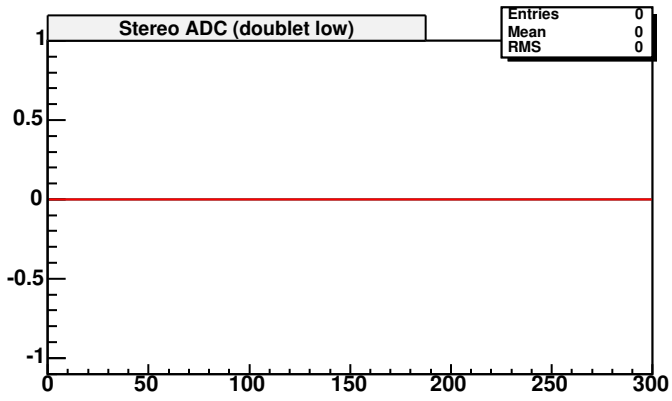


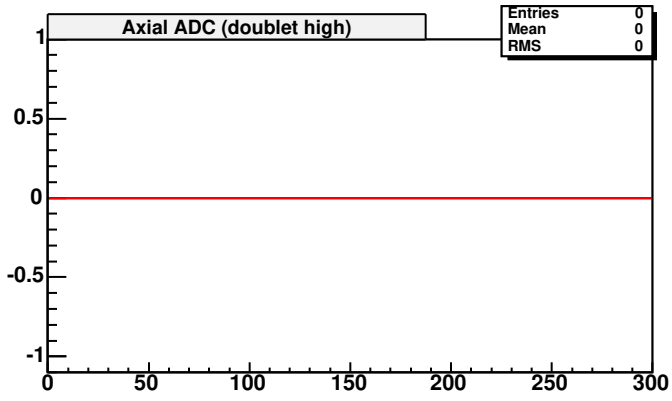



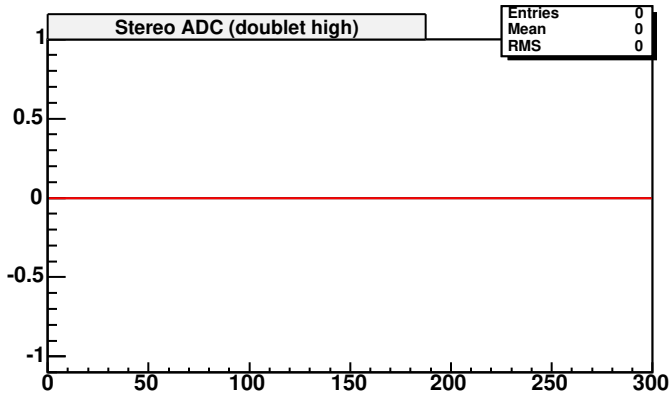



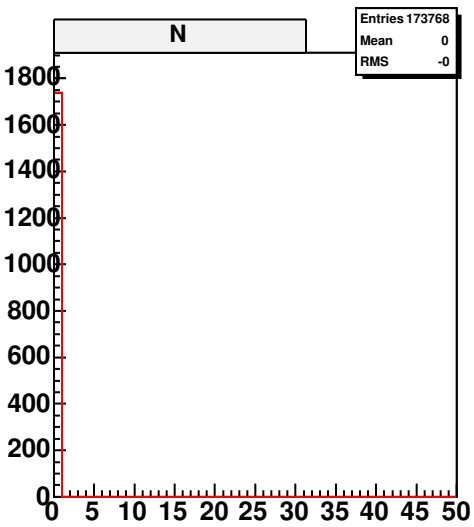



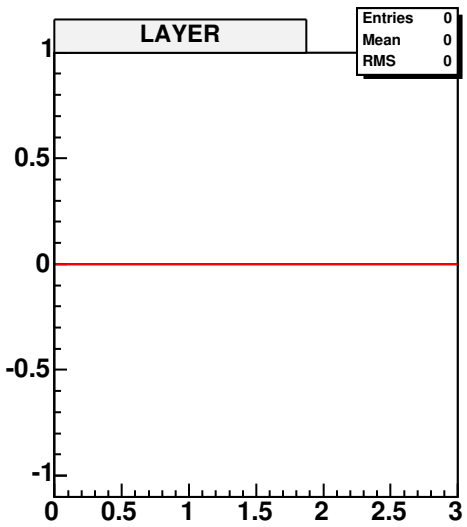



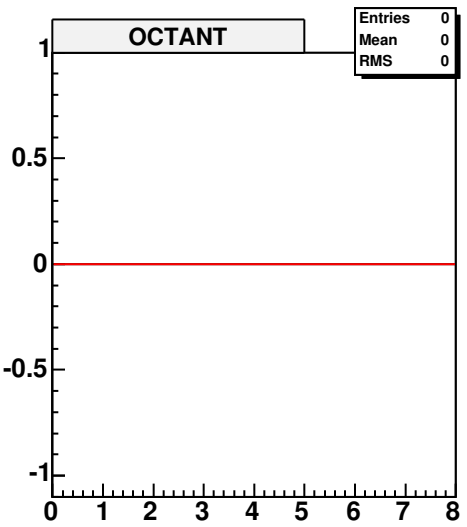



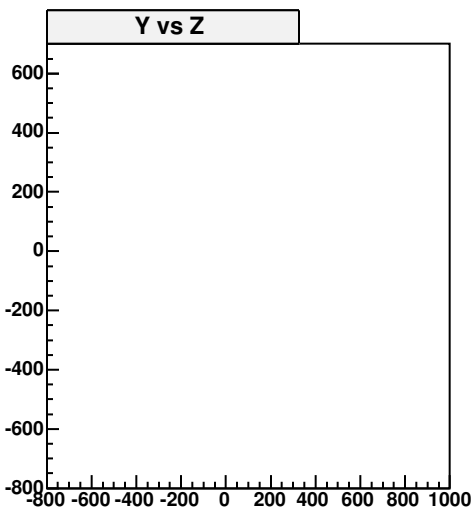



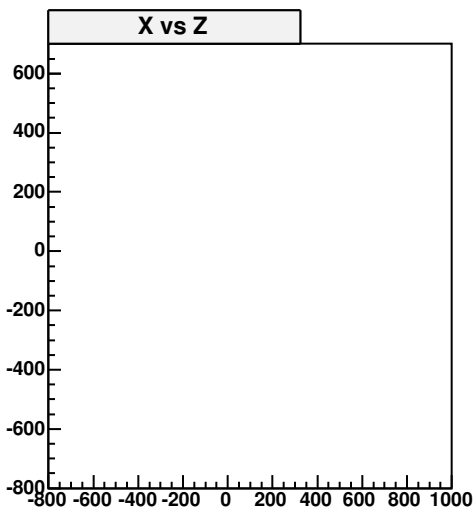

# CFT ADC Summary (Clusters on tracks)

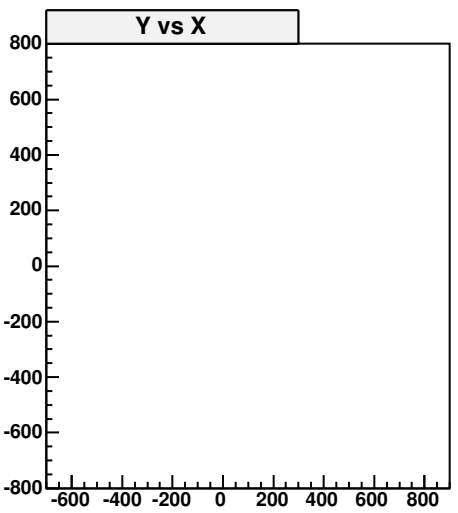

N
Entries 173768
Mean 0
RMS -0

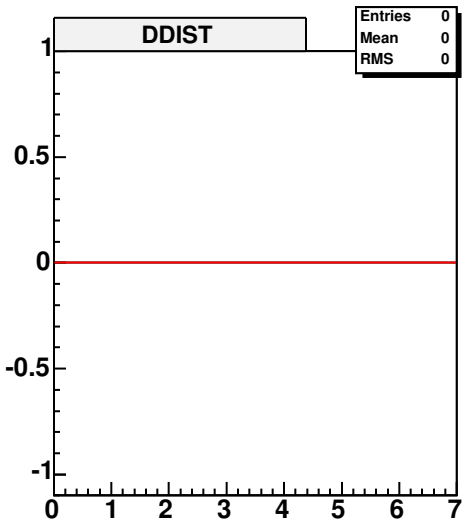

LAYER
Entries 0
Mean 0
RMS 0

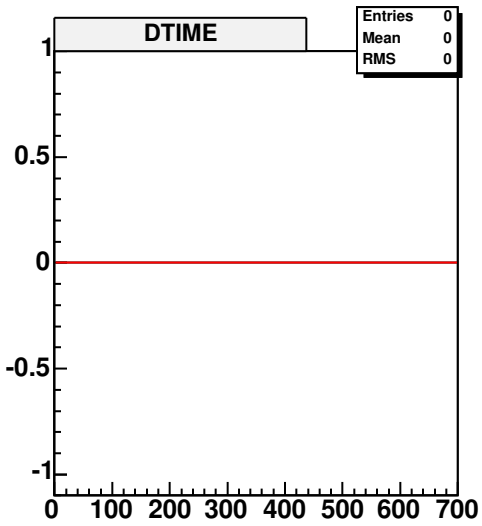

OCTANT
Entries 0
Mean 0
RMS 0


Y vs Z

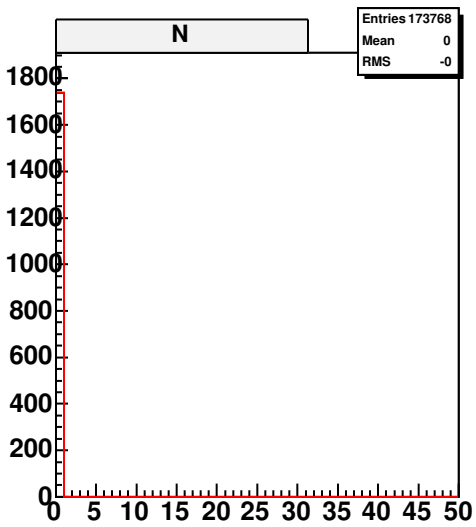

X vs Z

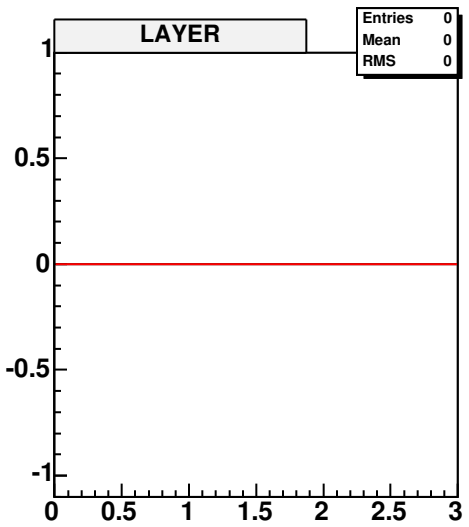

Y vs X

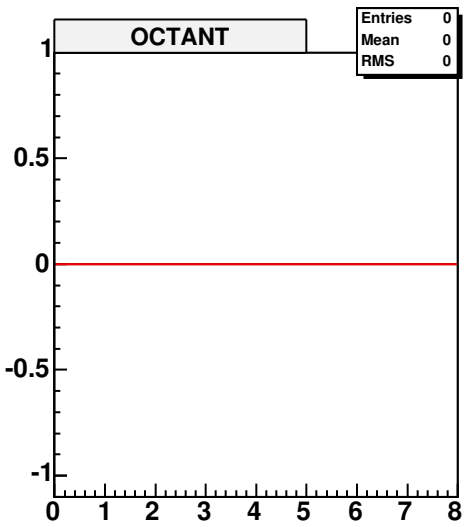

DDIST
Entries 0
Mean 0
RMS 0

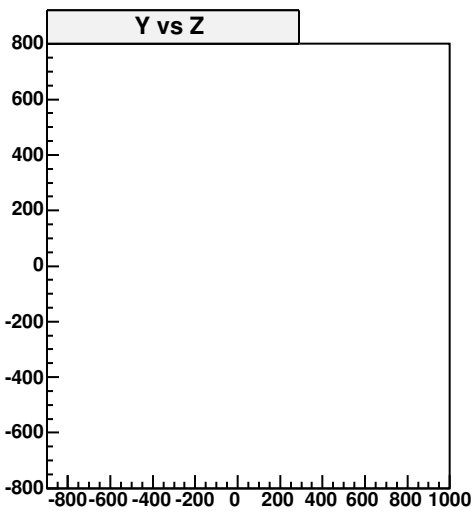

DTIME
Entries 0
Mean 0
RMS 0

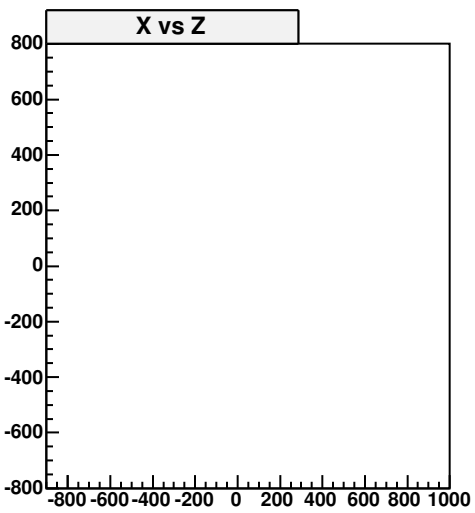
# MuonPDT (All)

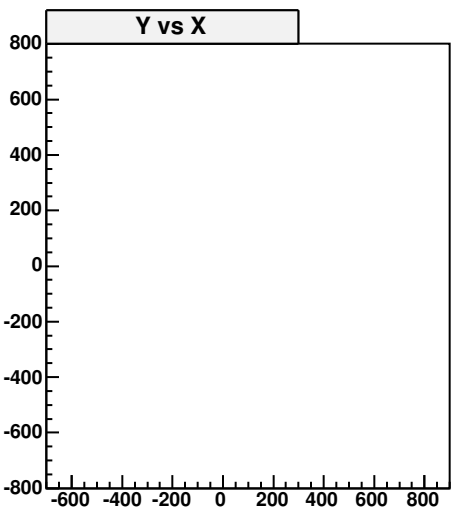

N
Entries 173768
Mean 0
RMS -0

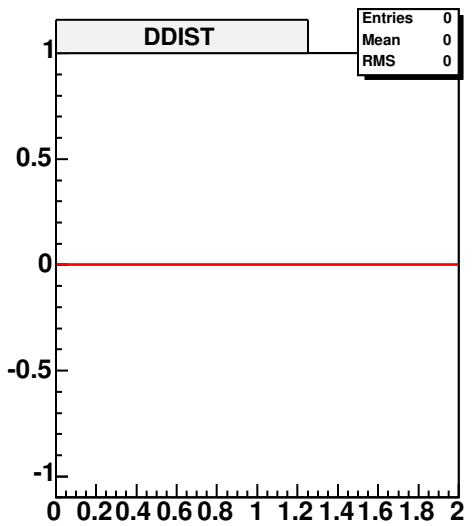

LAYER
Entries 0
Mean 0
RMS 0

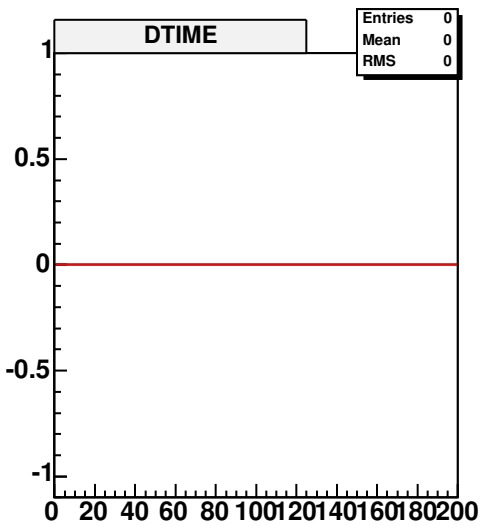

OCTANT
Entries 0
Mean 0
RMS 0


Y vs Z

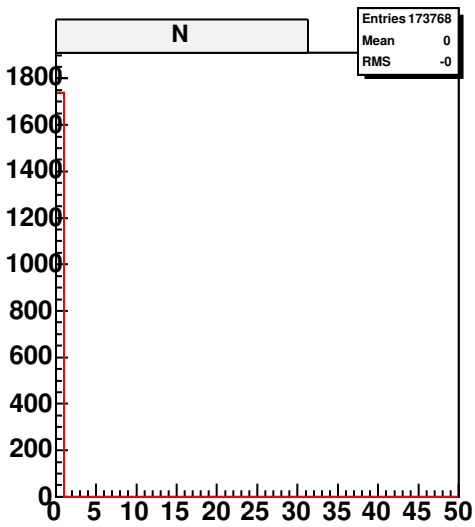

X vs Z

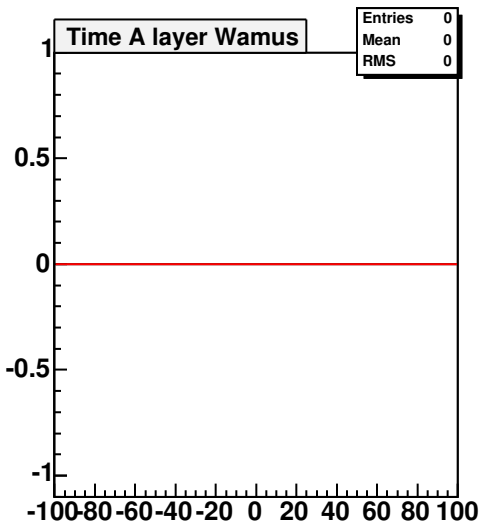

Y vs X

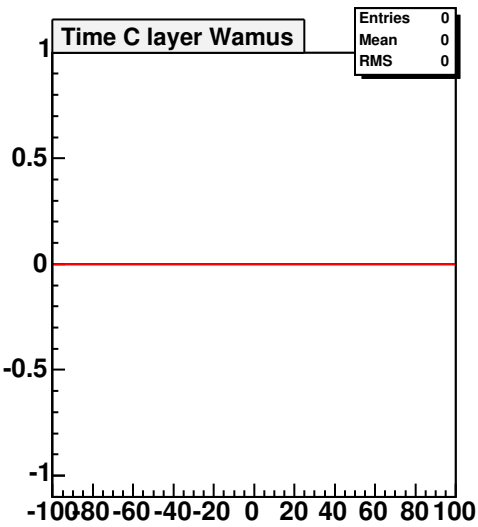

DDIST
Entries 0
Mean 0
RMS 0

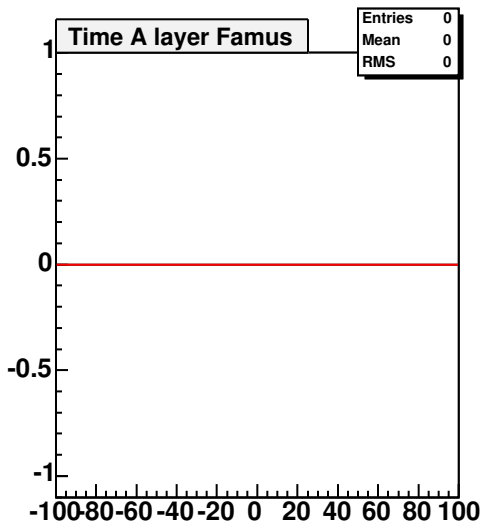

DTIME
Entries 0
Mean 0
RMS 0

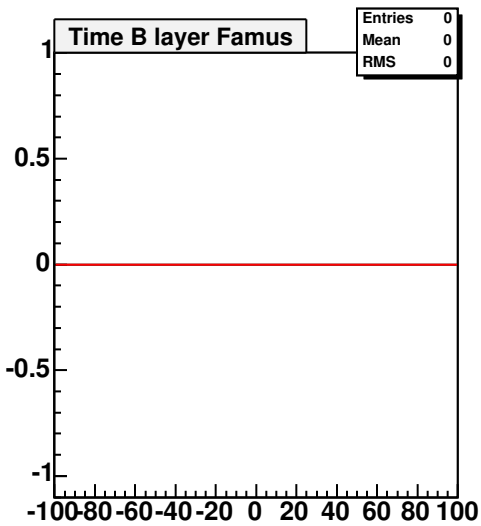
**MuonMDT (All)**

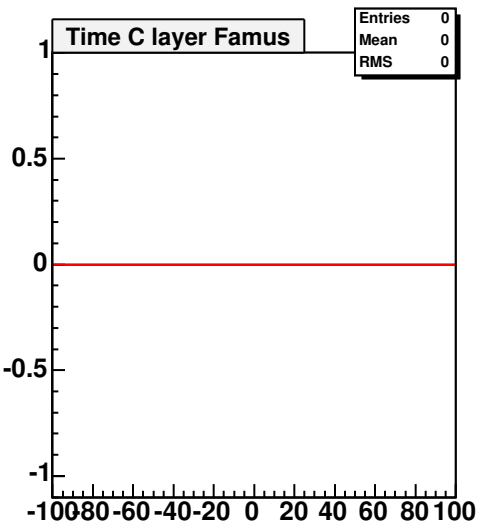

N
Entries 173768
Mean 0
RMS -0

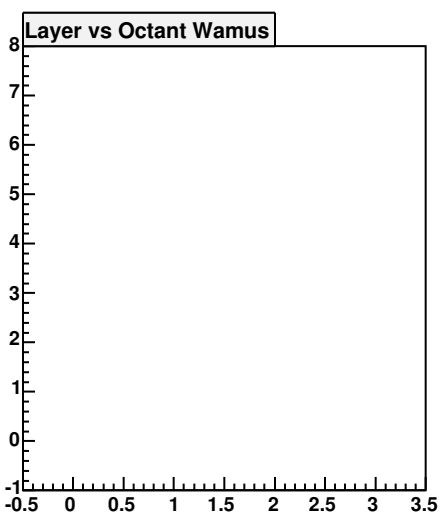

Time A layer Wamus
Entries 0
Mean 0
RMS 0

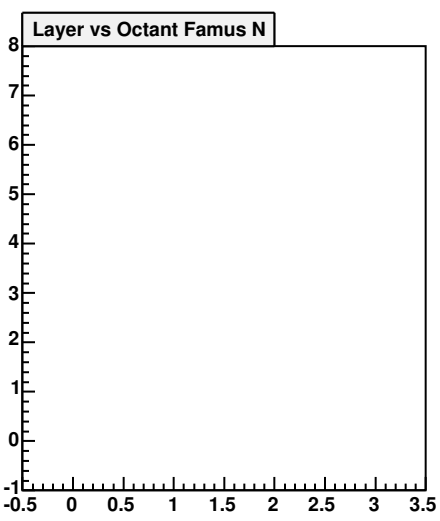

Time C layer Wamus
Entries 0
Mean 0
RMS 0

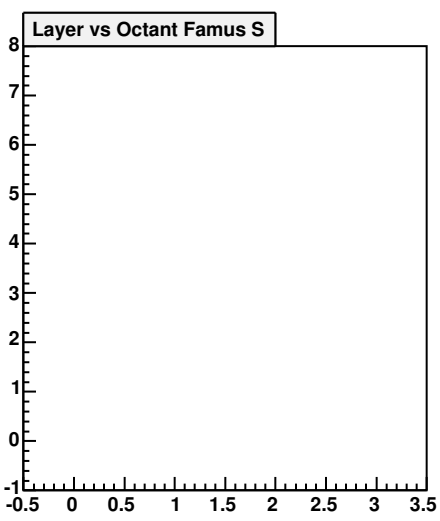

Time A layer Famus
Entries 0
Mean 0
RMS 0


Time B layer Famus
Entries 0
Mean 0
RMS 0

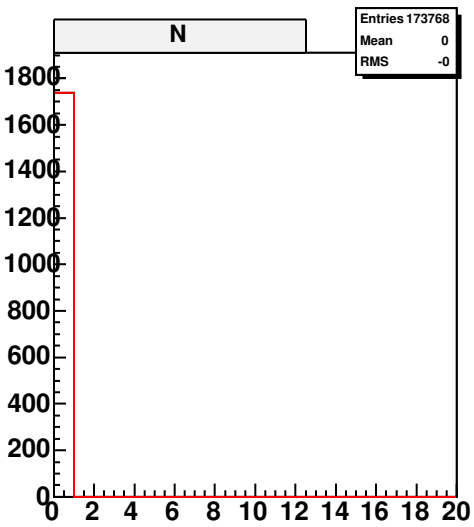

Time C layer Famus
Entries 0
Mean 0
RMS 0

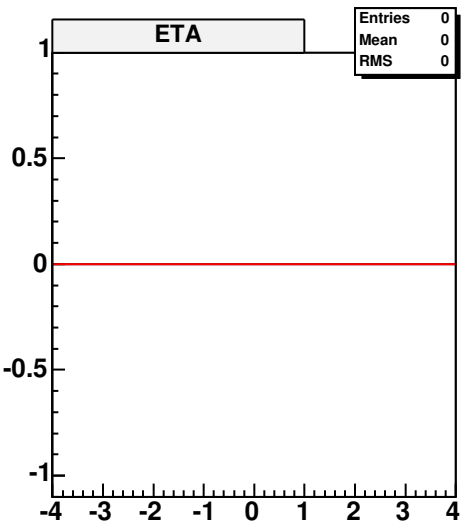

Layer vs Octant Wamus

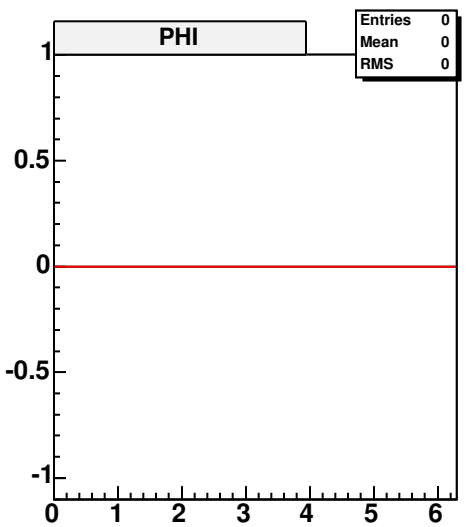

Layer vs Octant Famus N

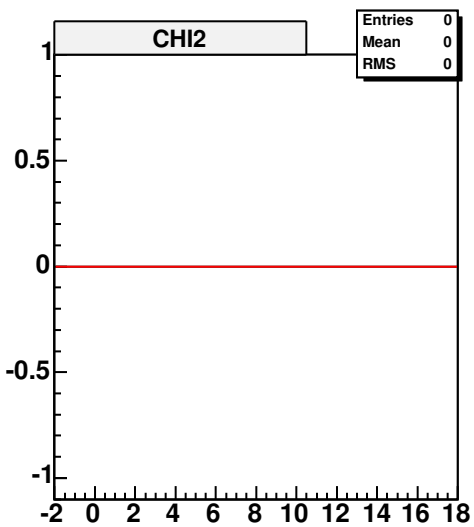

Layer vs Octant Famus S

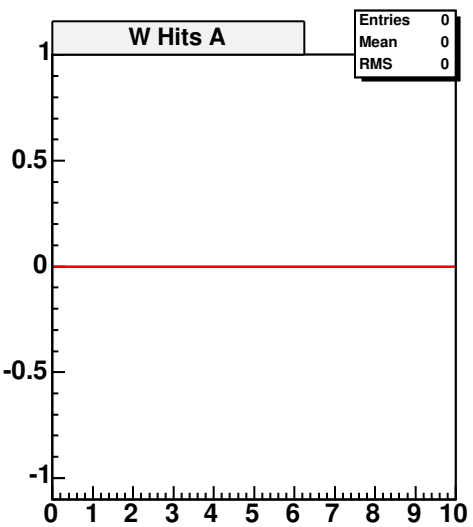
**MuonMSC (All)**

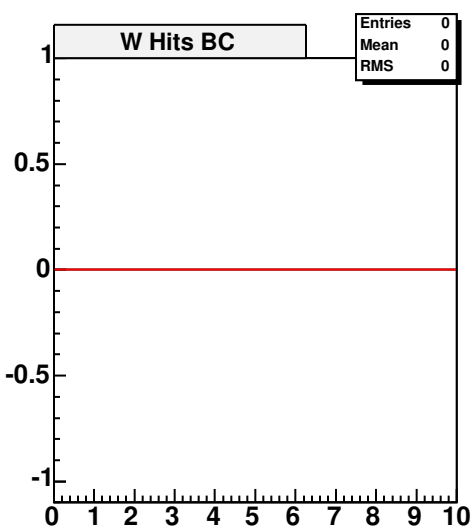


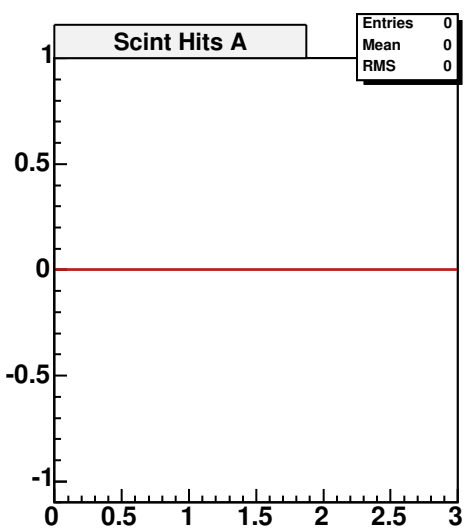



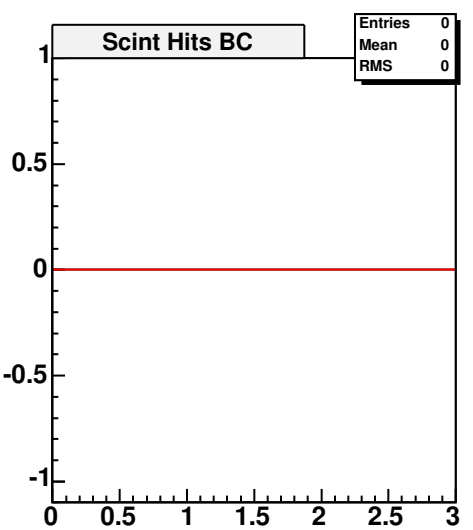



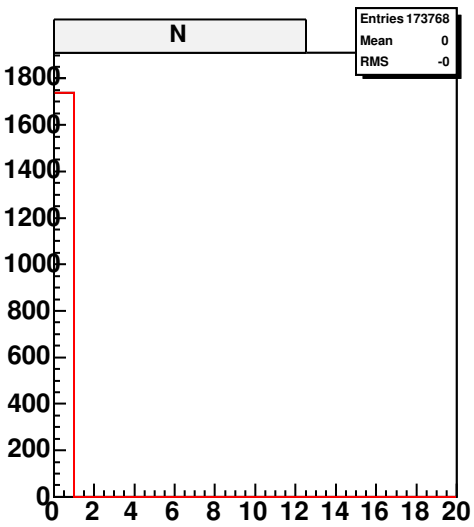



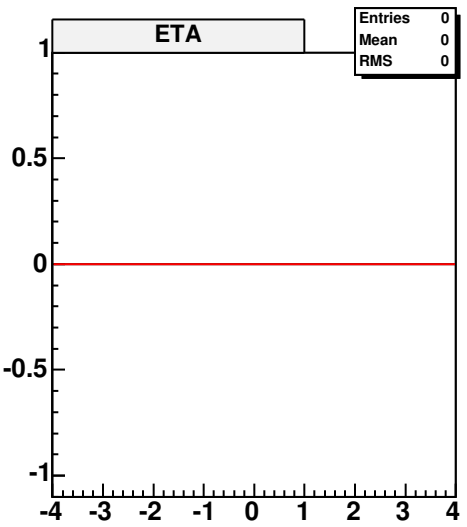



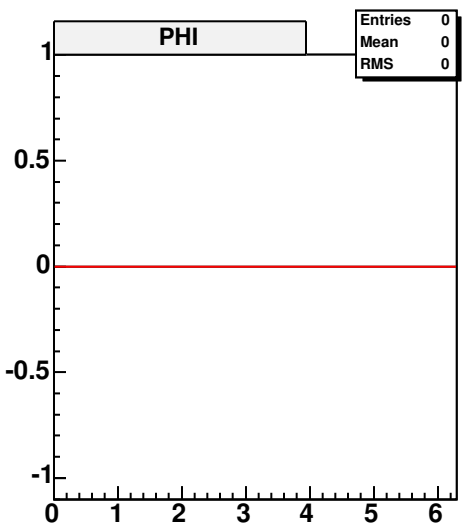



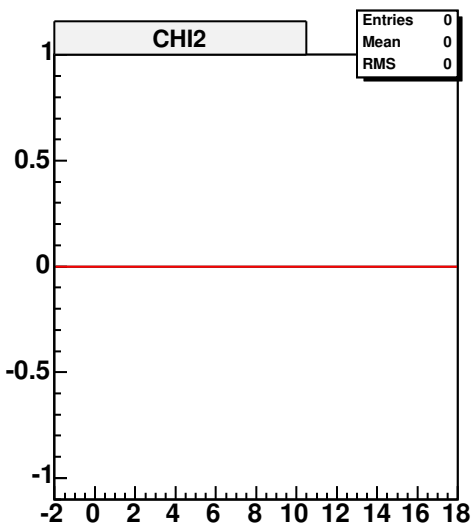



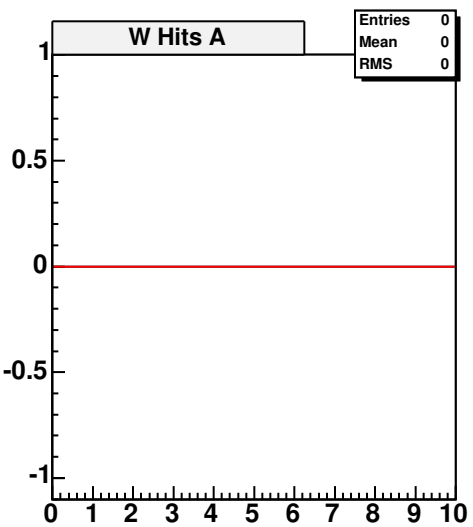

# Muon Local Tracks (All)

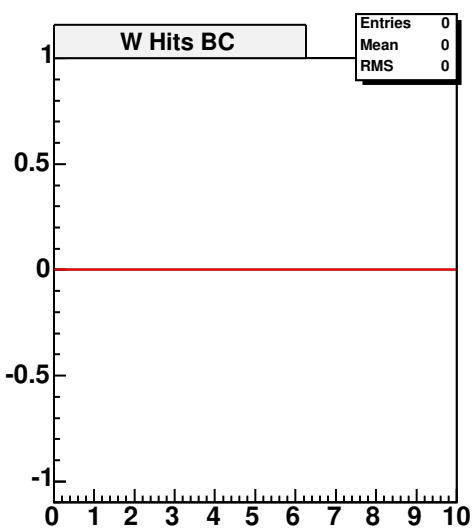


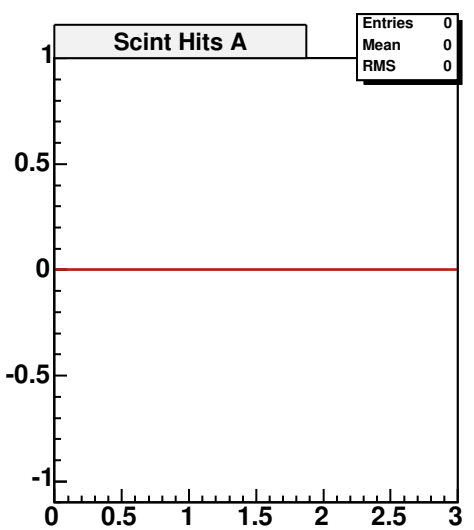



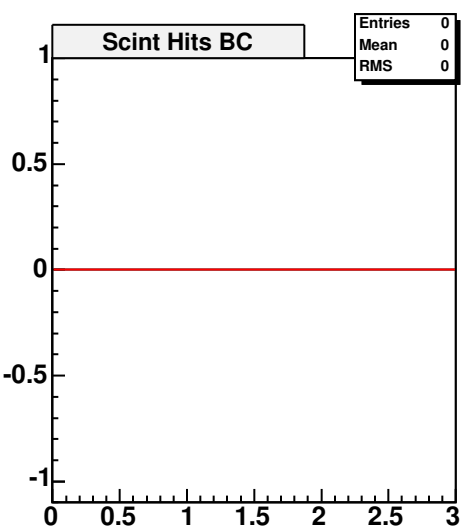



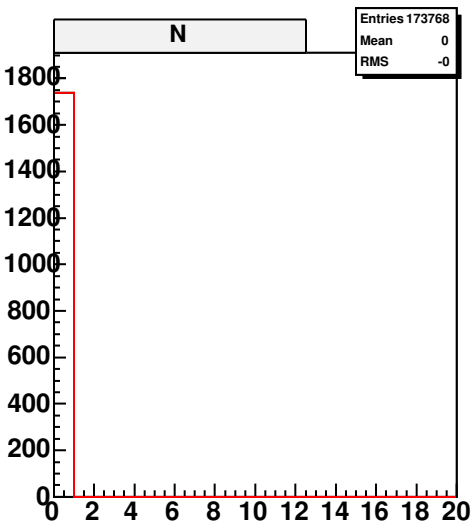



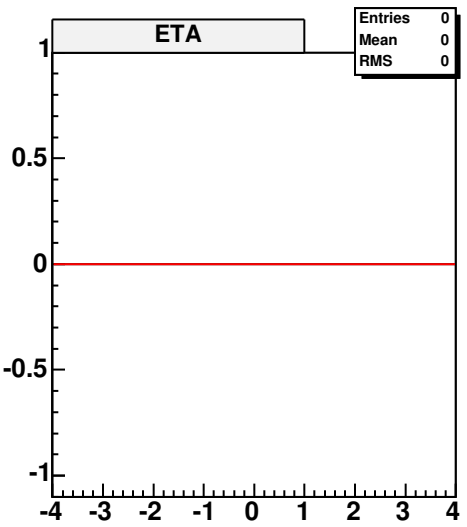



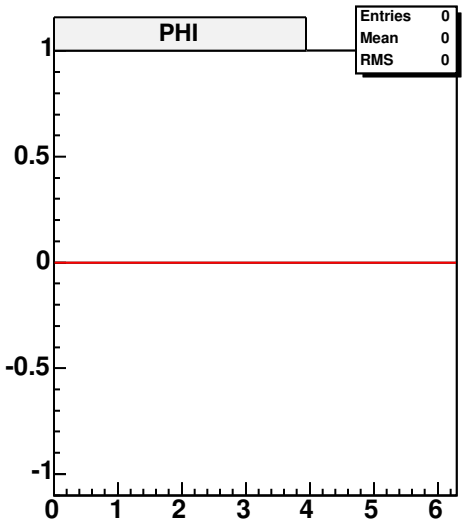



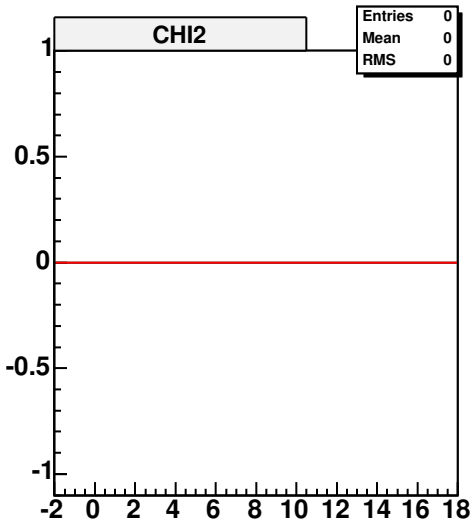



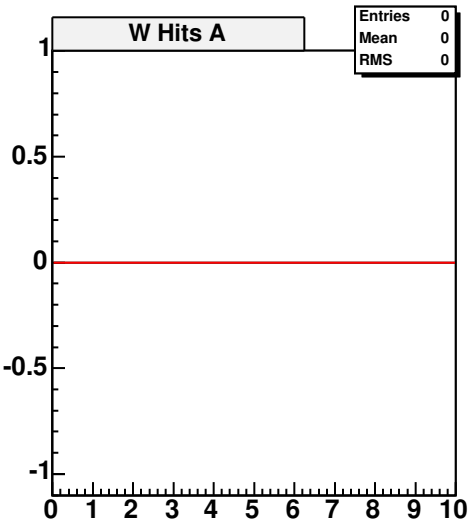

# Muon Local Tracks (MediumWamus)

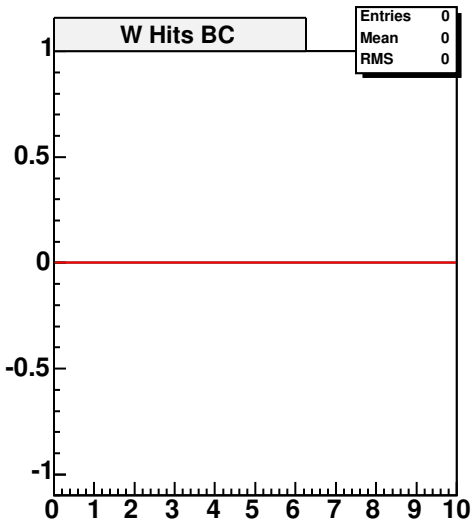


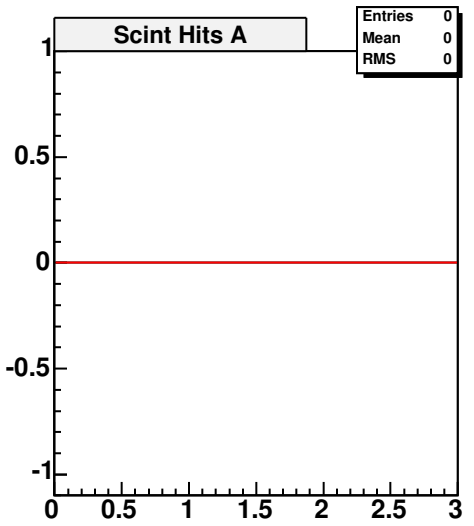



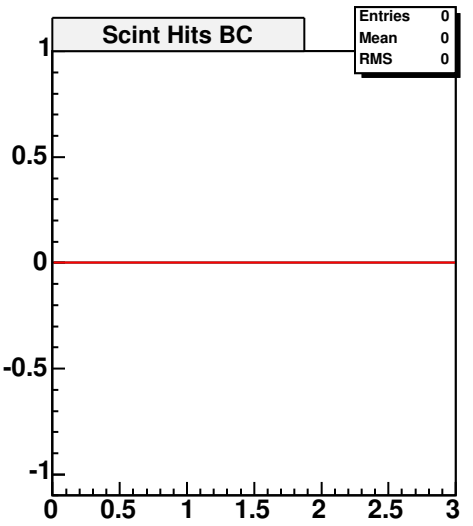



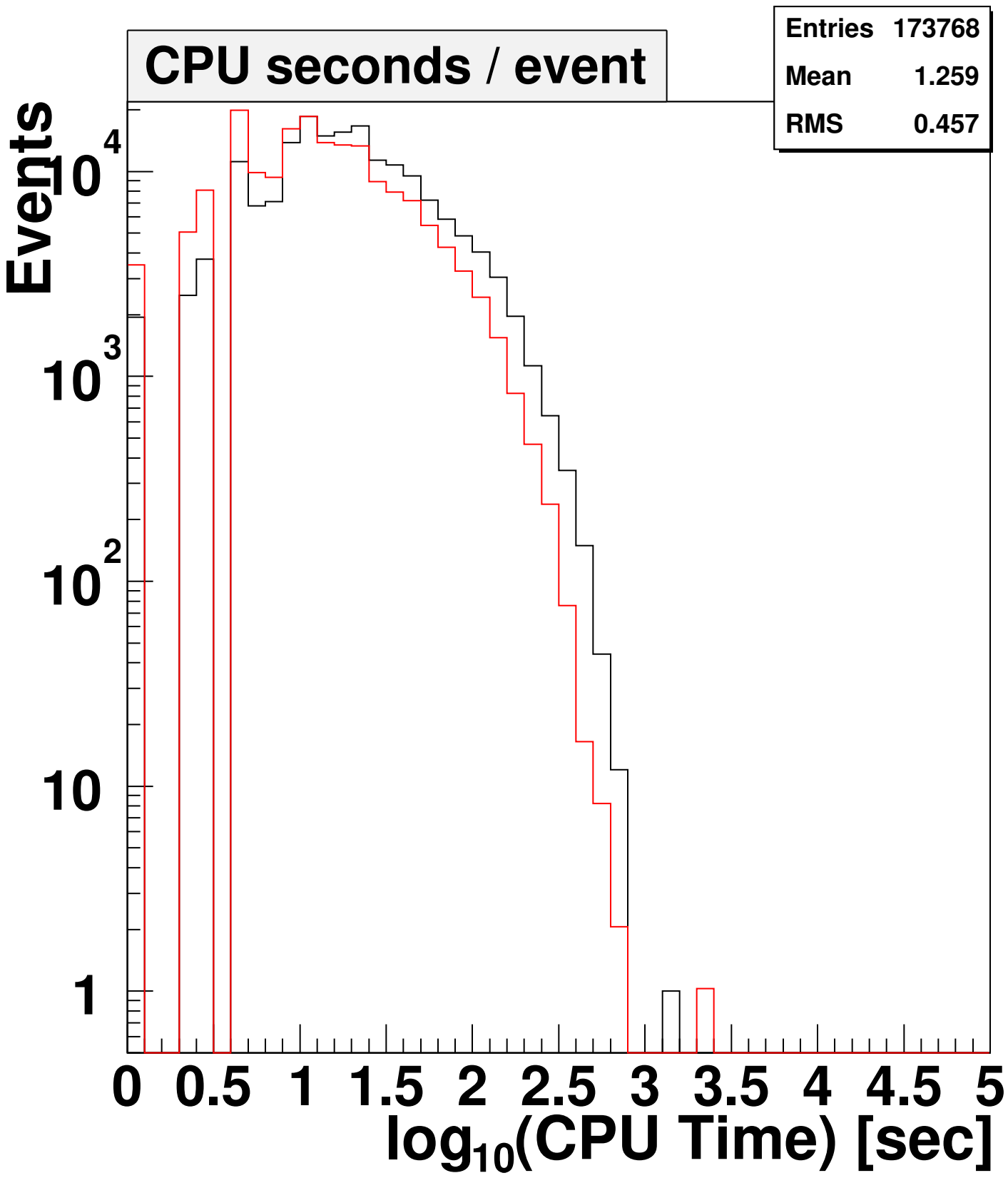




# Muon Local Tracks (MediumFamus)




RECO Performance (Timing)