# dayset-2006-08-28-all_4-224637-0_certification_20070
# /rooms/seminole/steele/merge/in2p3/unmerged/dayse


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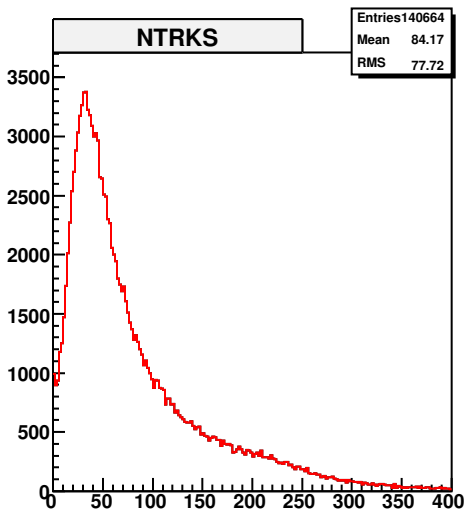
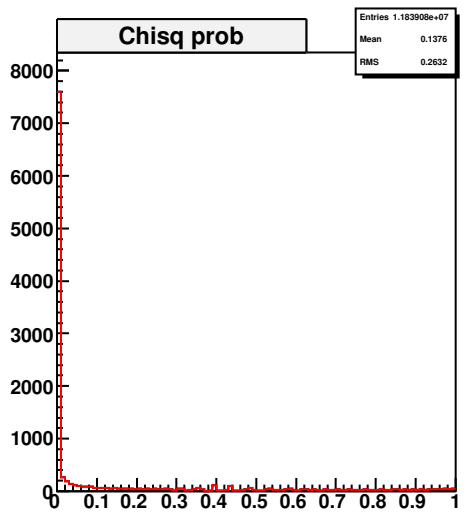
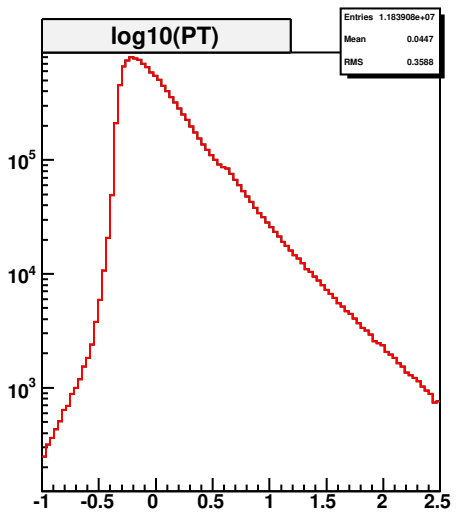
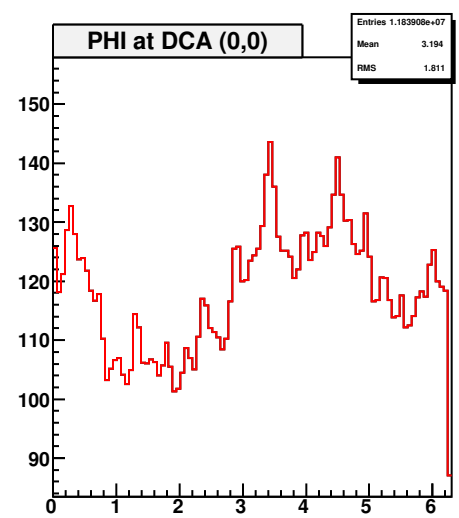
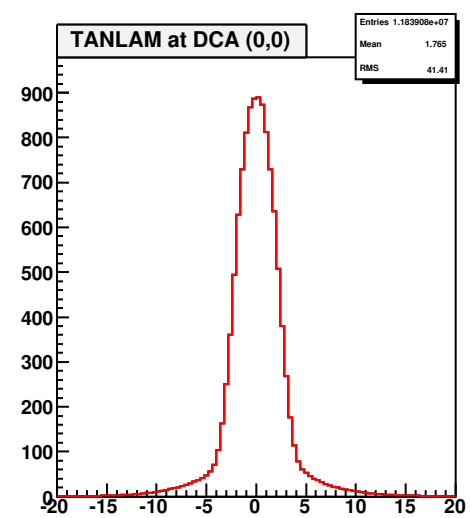
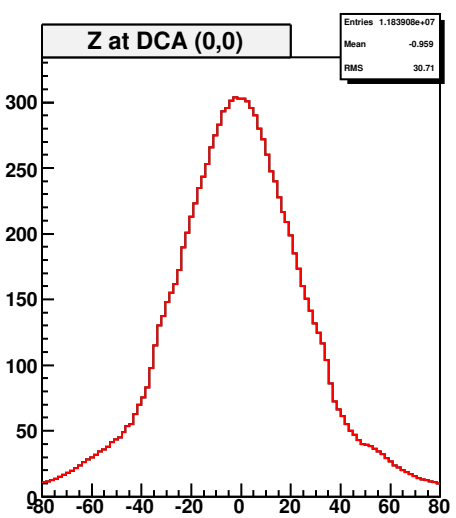

NTRKS
Entries 140664
Mean 84.17
RMS 77.72

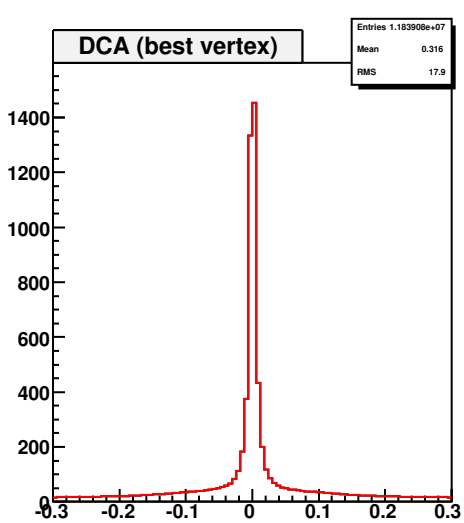

Chisq prob
Entries 1.183908e+07
Mean 0.1376
RMS 0.2632

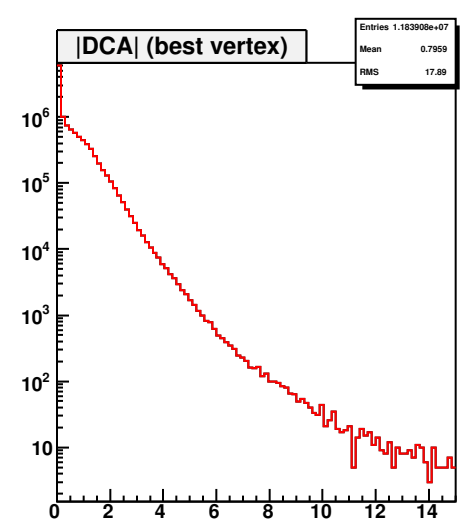

log10(PT)
Entries 1.183908e+07
Mean 0.0447
RMS 0.3588

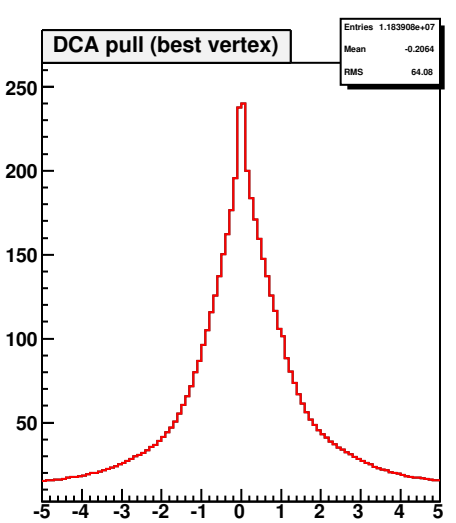

PHI at DCA (0,0)
Entries 1.183908e+07
Mean 3.194
RMS 1.811


TANLAM at DCA (0,0)
Entries 1.183908e+07
Mean 1.765
RMS 41.41

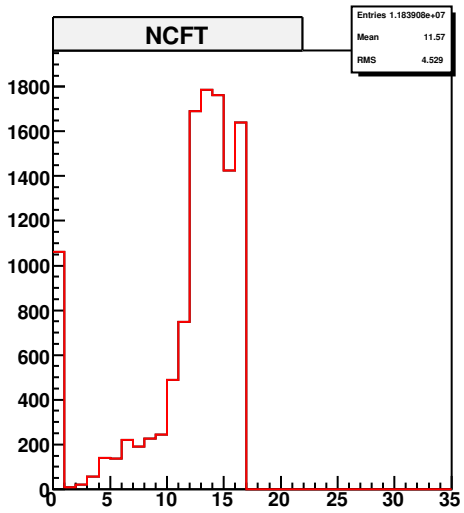

Z at DCA (0,0)
Entries 1.183908e+07
Mean -0.959
RMS 30.71

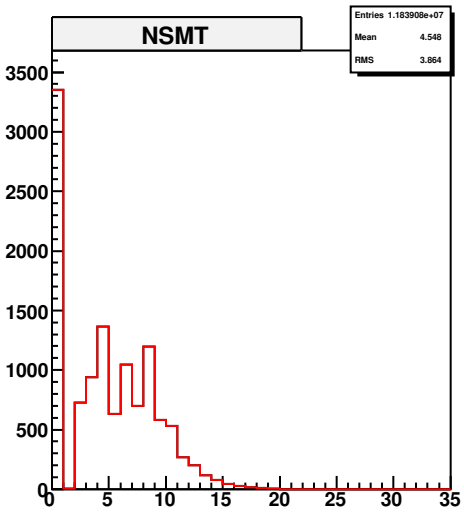

DCA (best vertex)
Entries 1.183908e+07
Mean 0.316
RMS 17.9

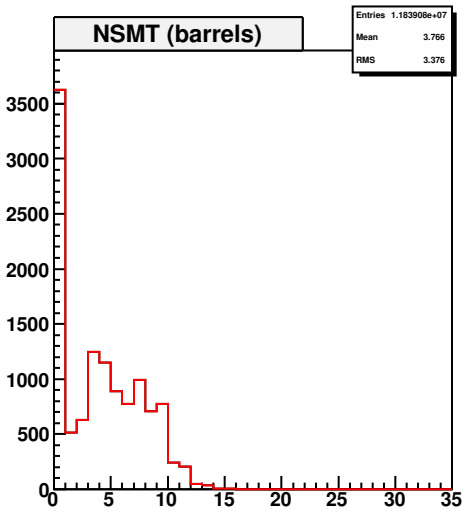

|DCA| (best vertex)
Entries 1.183908e+07
Mean 0.7959
RMS 17.89

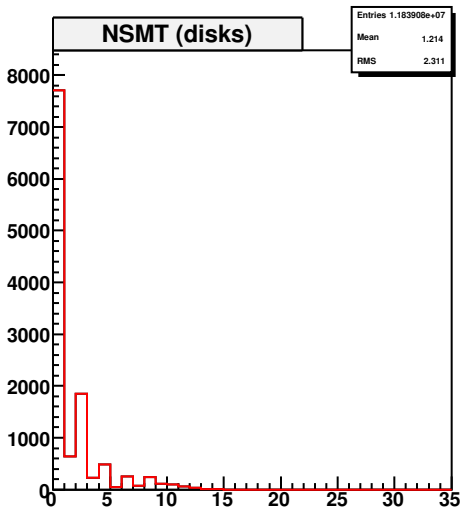

DCA pull (best vertex)
Entries 1.183908e+07
Mean -0.2064
RMS 64.08

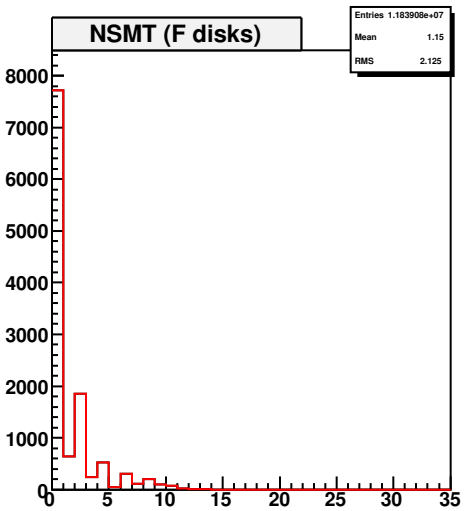
# Tracks (All)

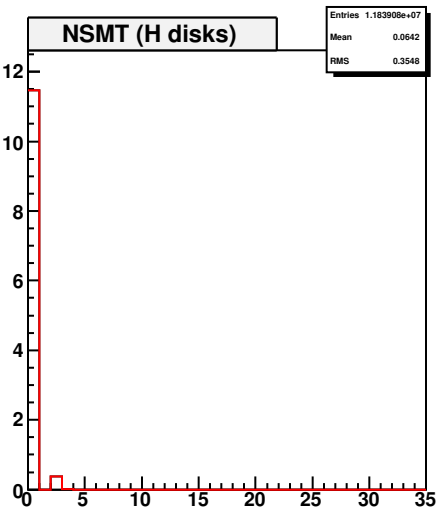


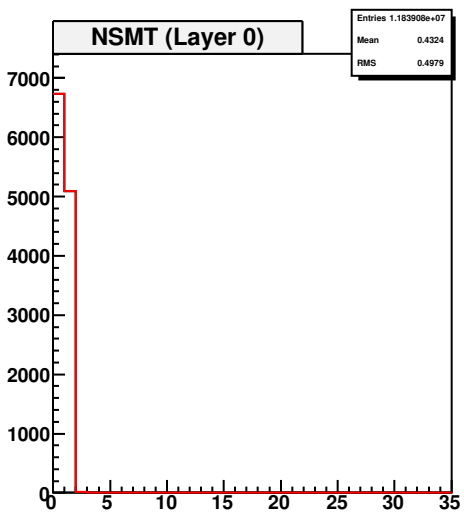



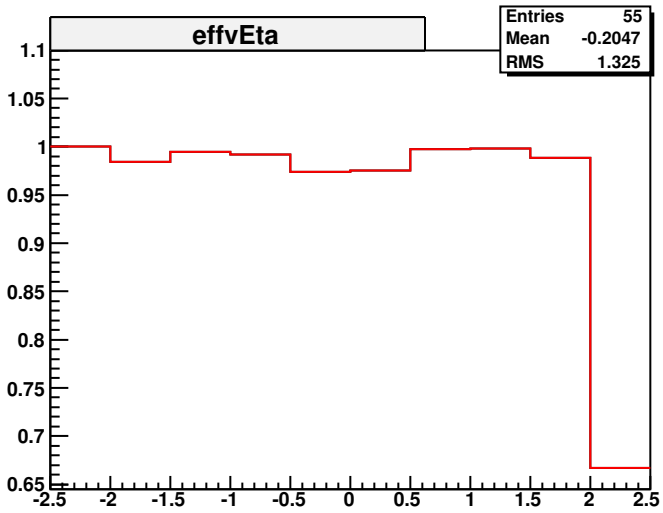



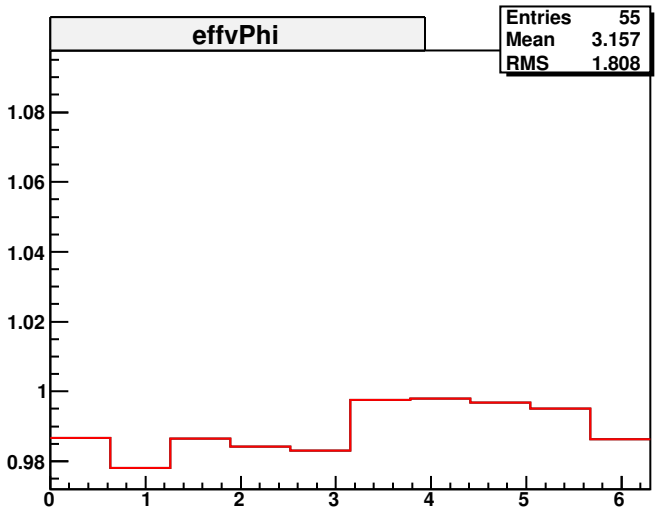



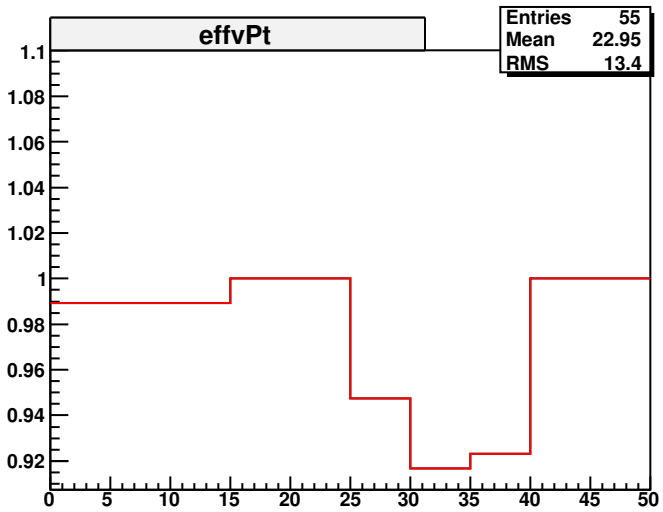



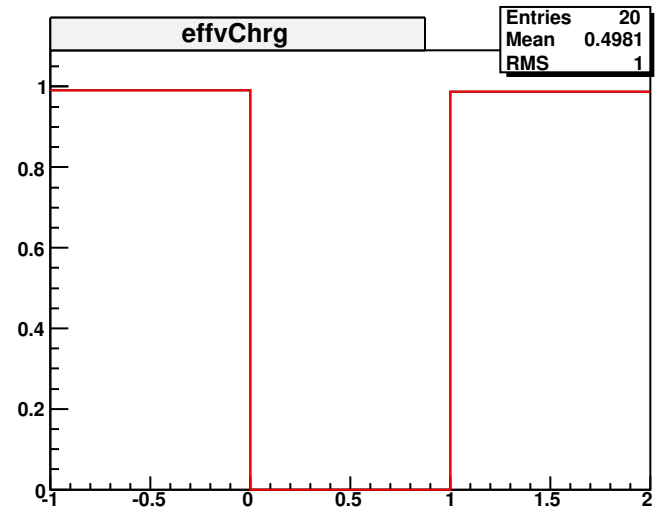



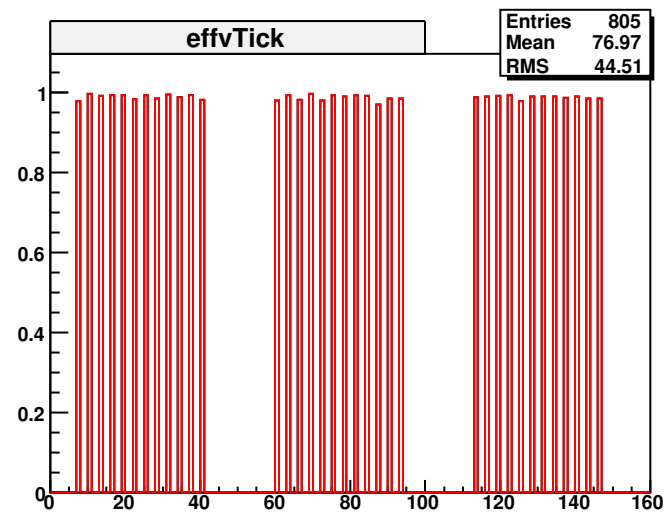

**Track Hits (All)**

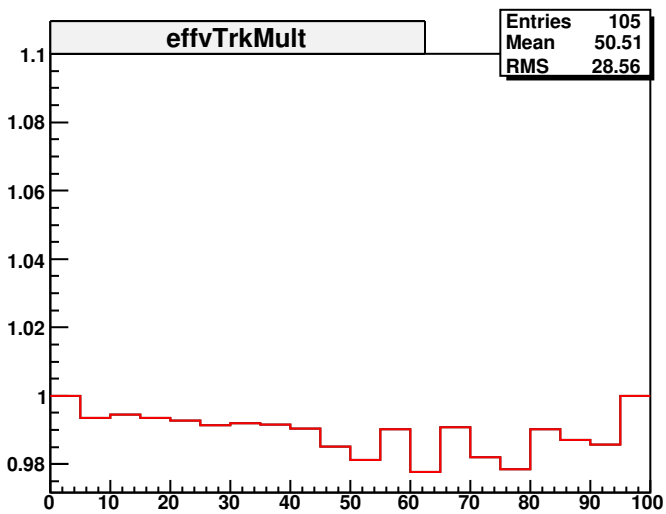


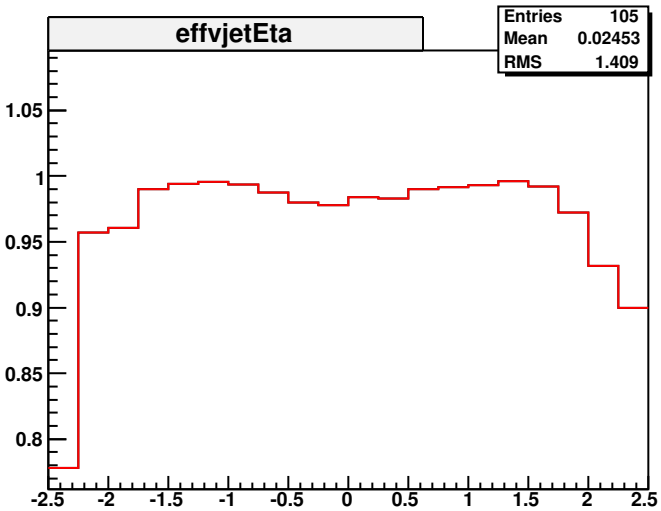



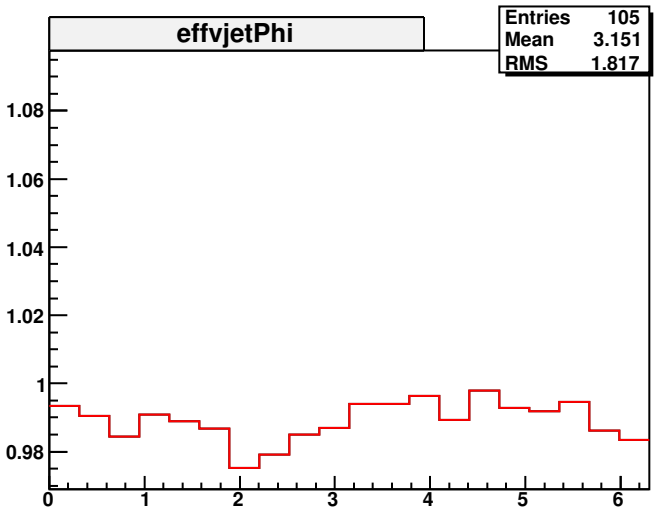



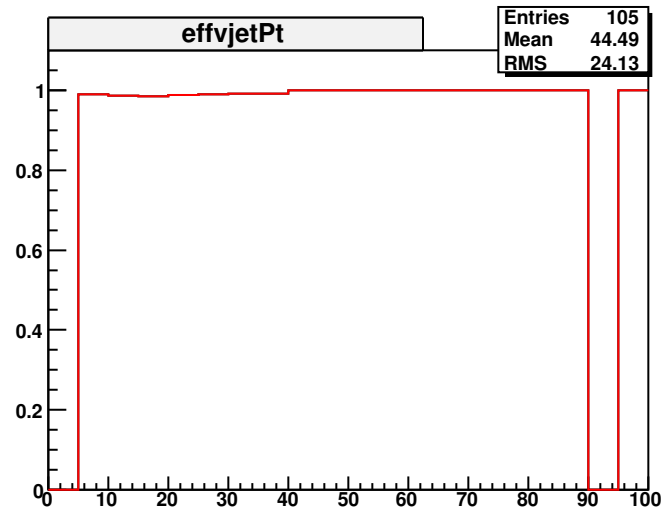



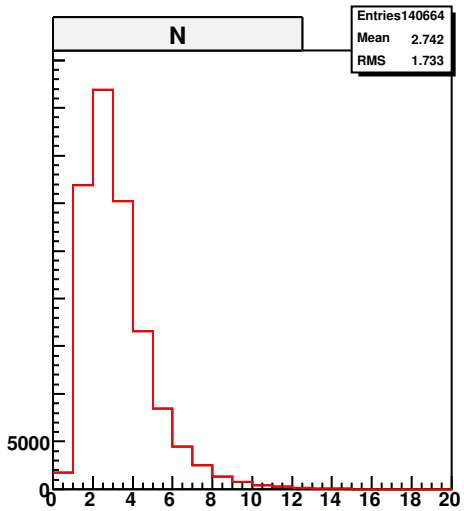

# Tracking (Efficiency-Isolated)

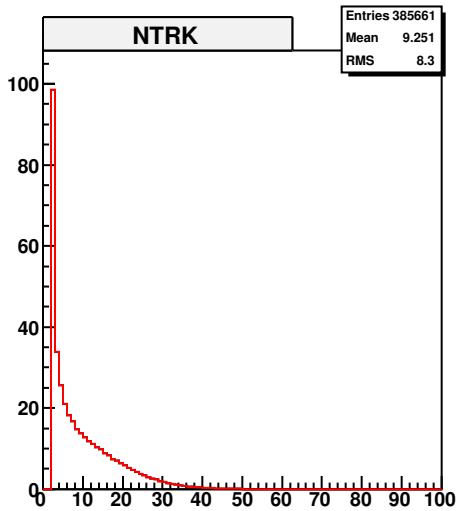


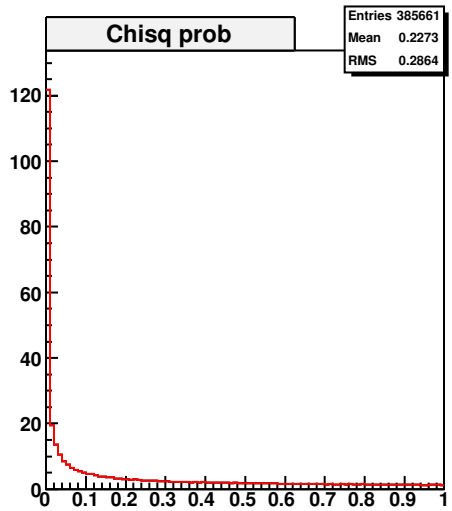



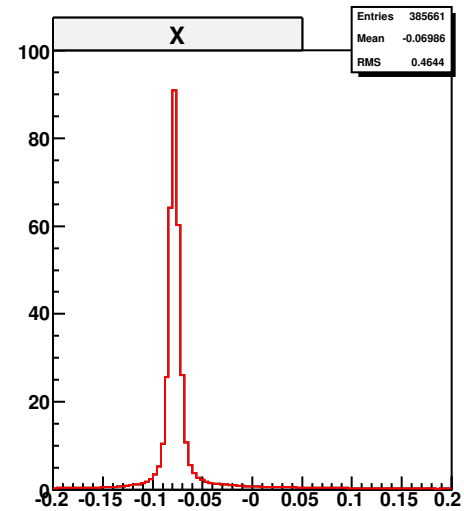



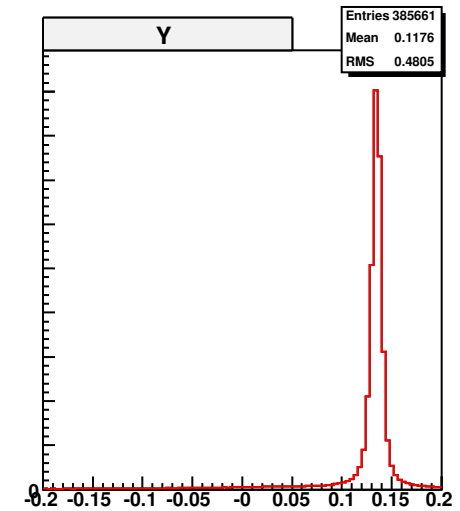

# Tracking (Efficiency-InJets)

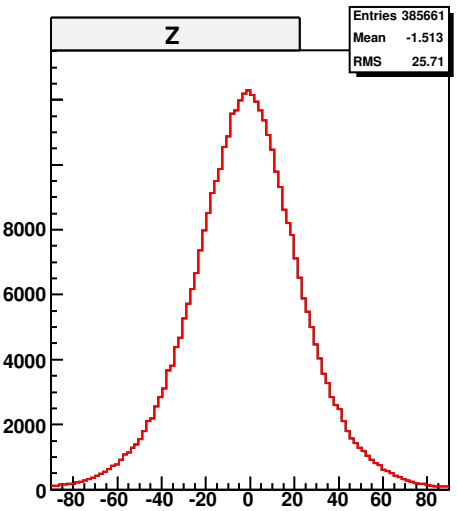


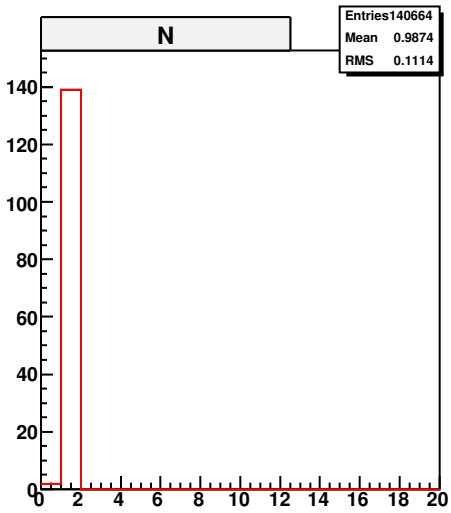



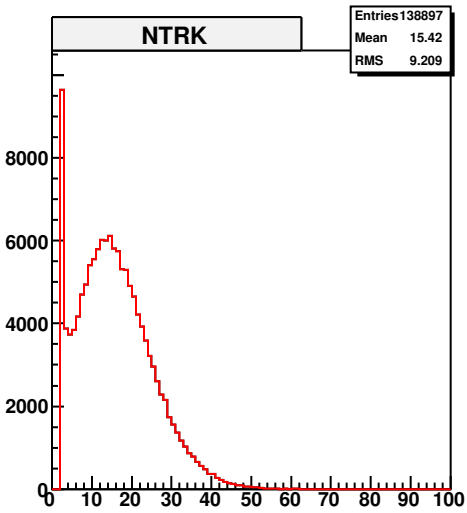



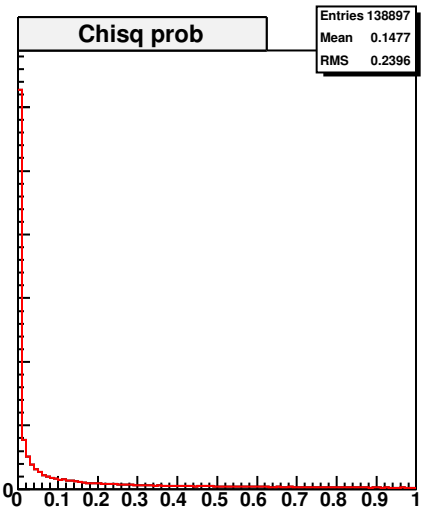



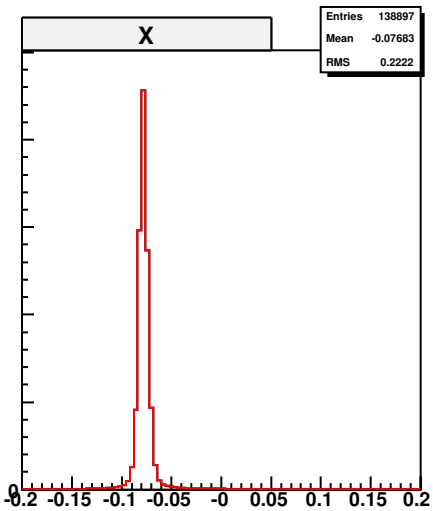



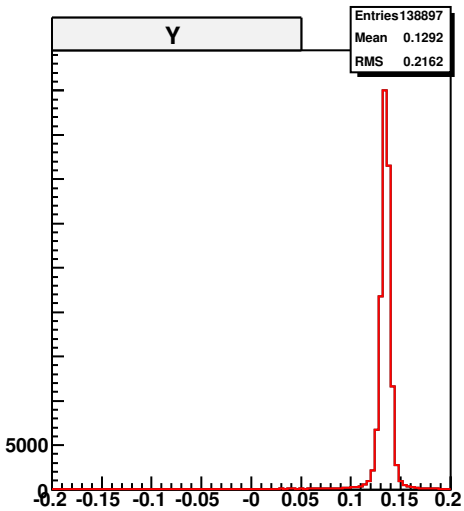

# Vertices (Primary - all candidates)

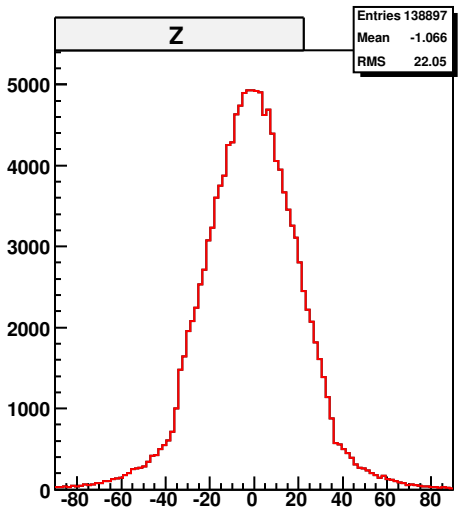


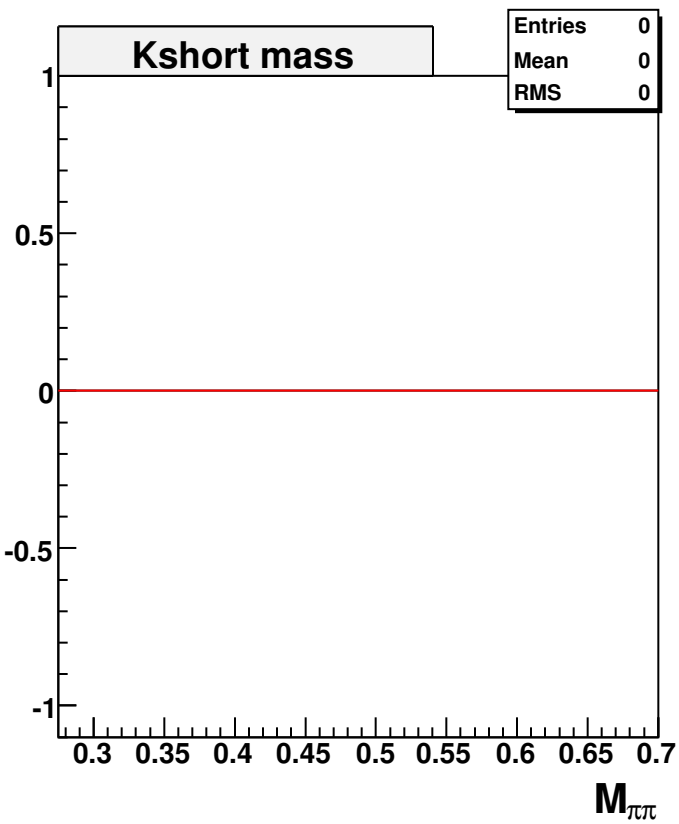



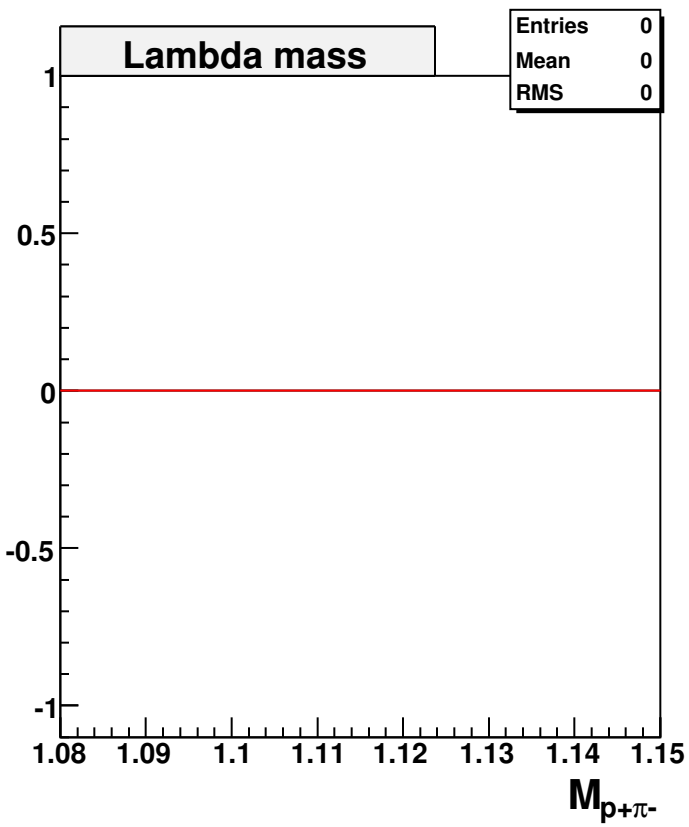



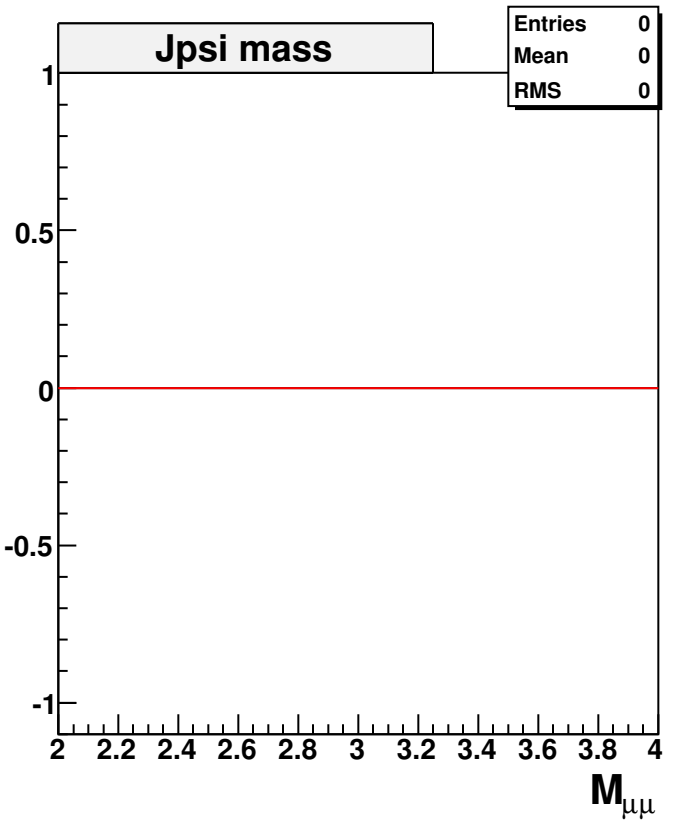



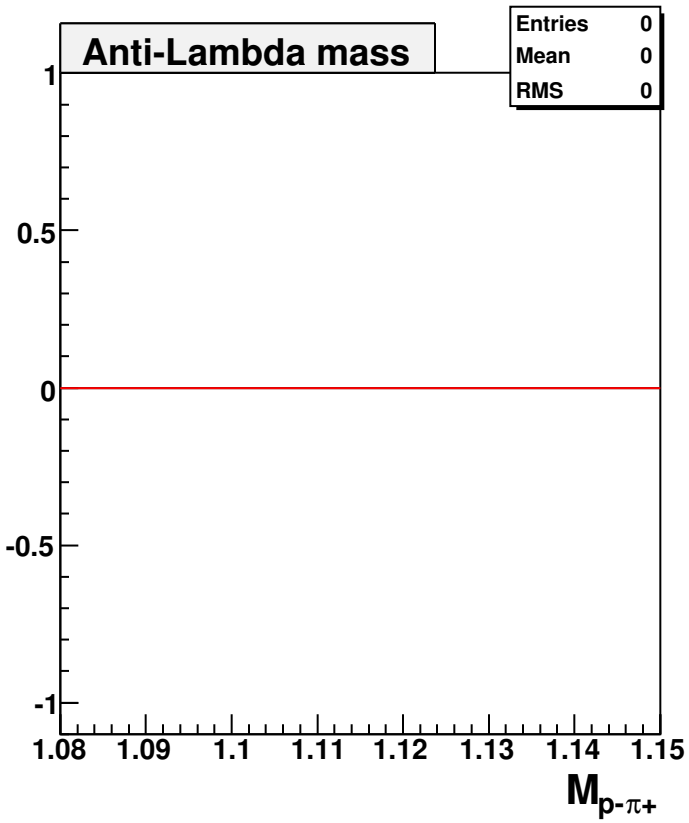




**Vertices (Primary - best)**

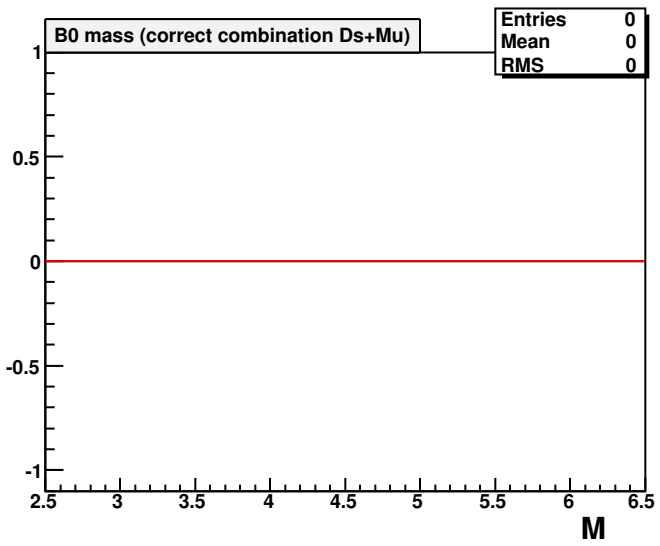

Kshort mass
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

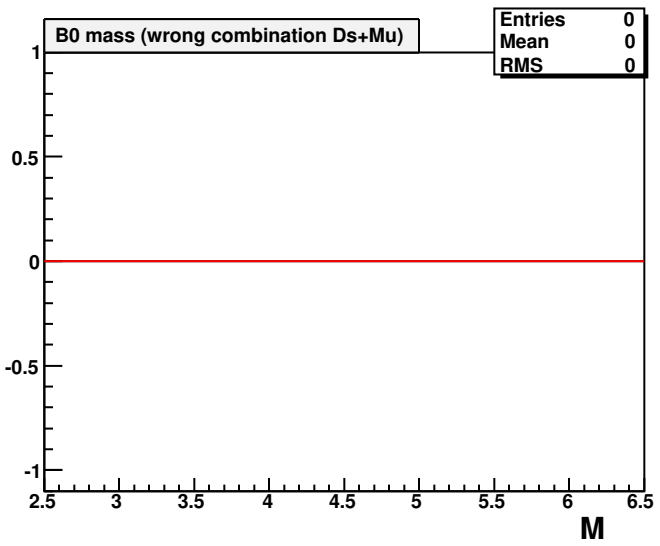

Lambda mass
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

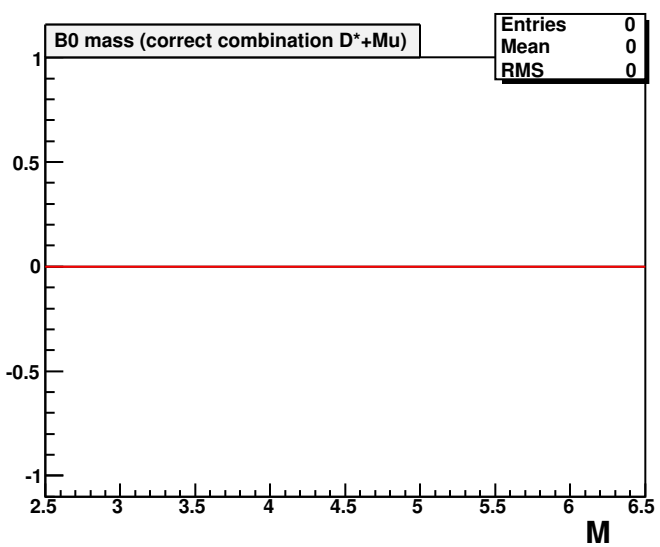

Jpsi mass
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

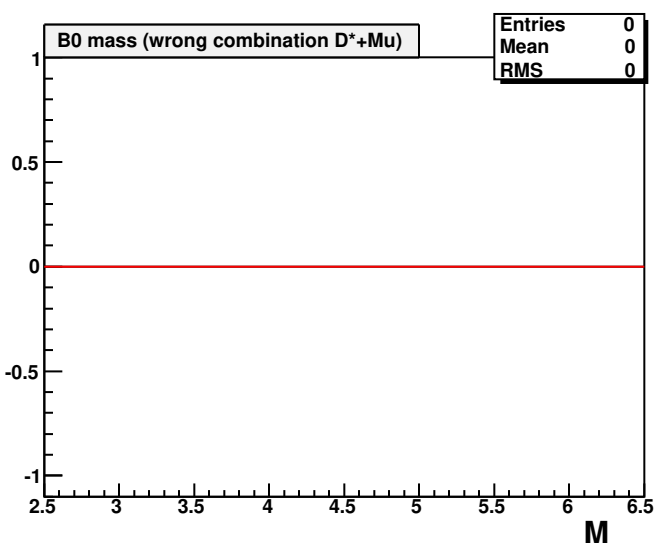

Anti-Lambda mass
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

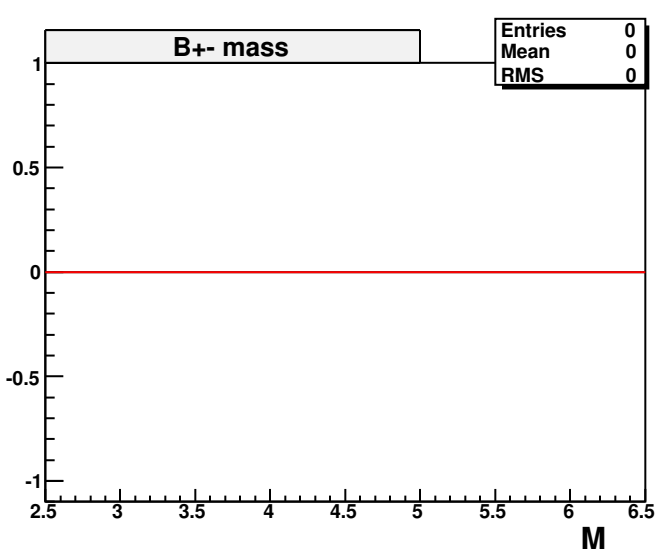
**V0 (All)**



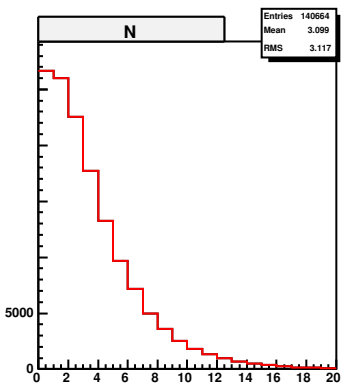



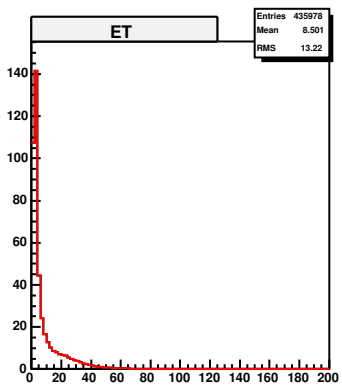



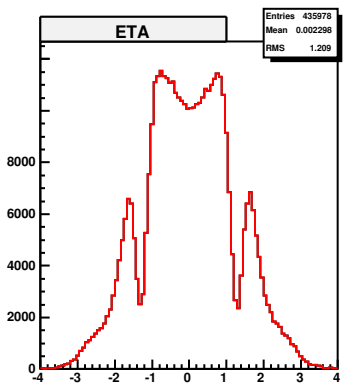



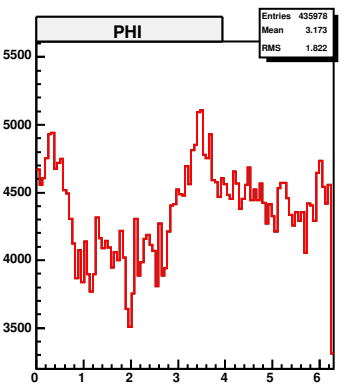



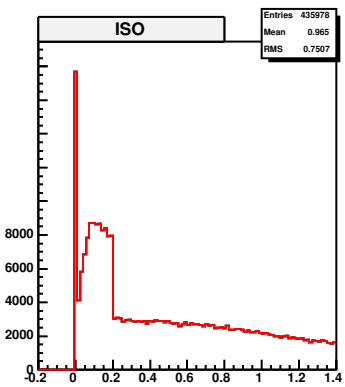

# V0(B mesons) (All)

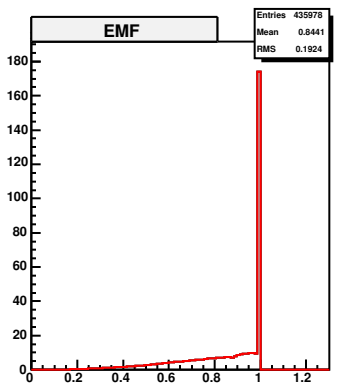


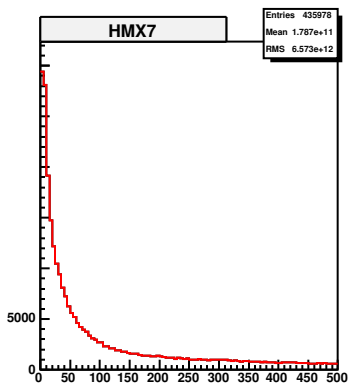



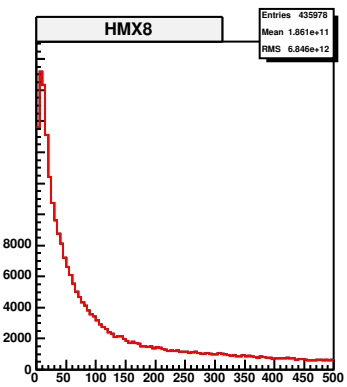



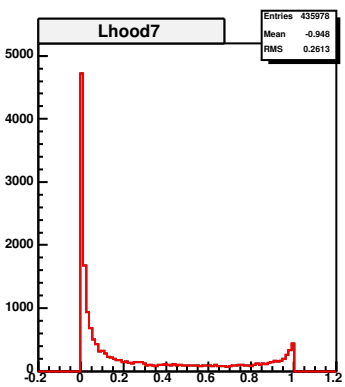



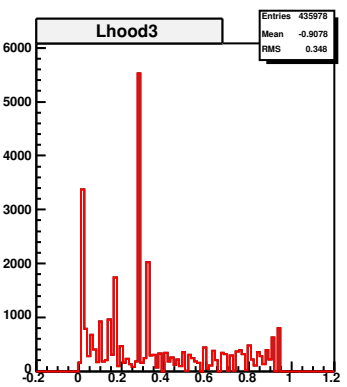



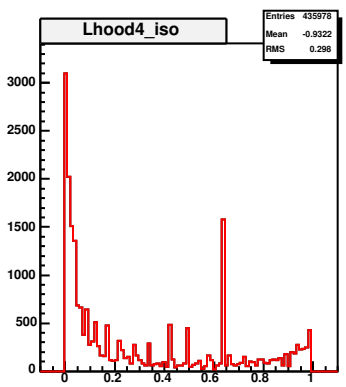



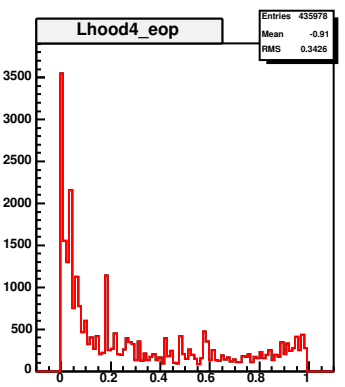



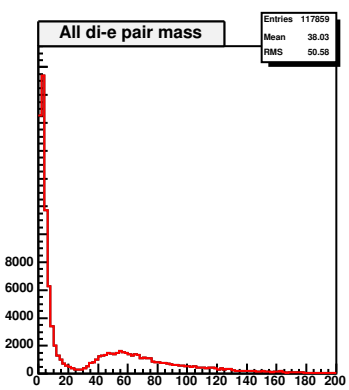



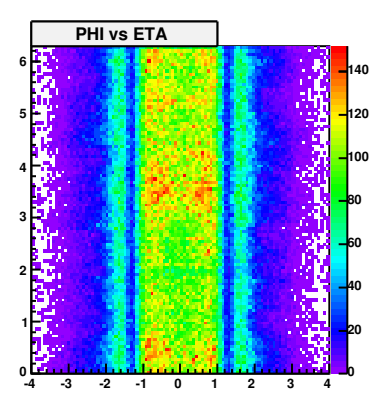



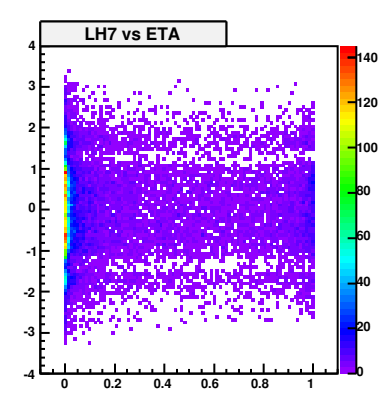



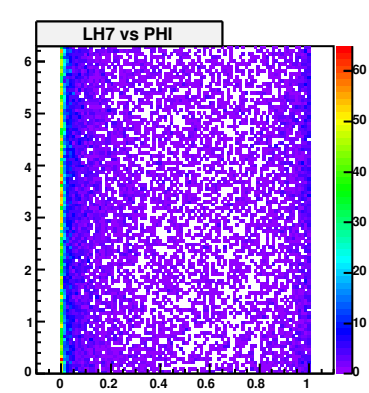



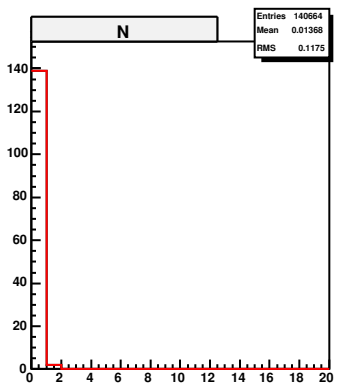



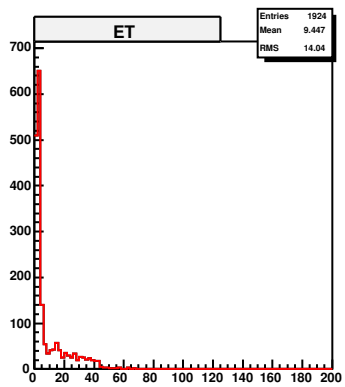



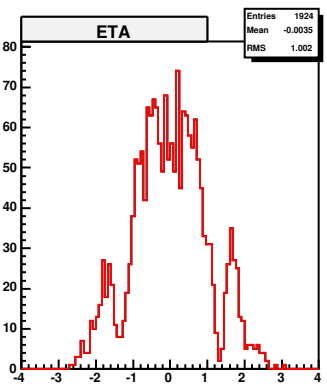



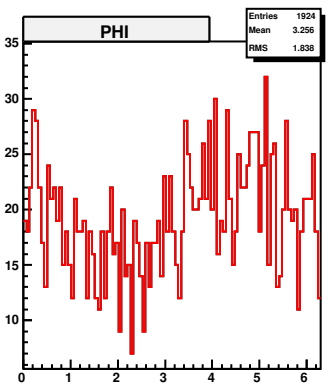



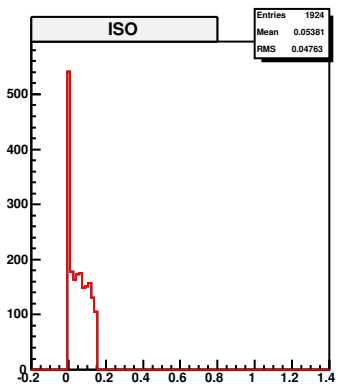

# Electrons (SCONE All)

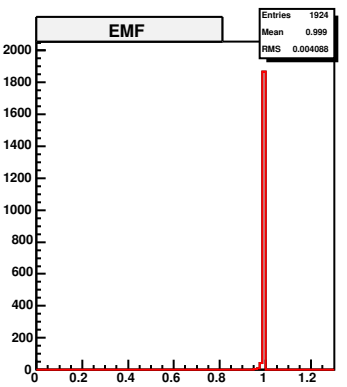


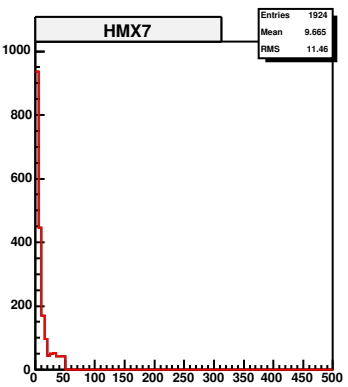



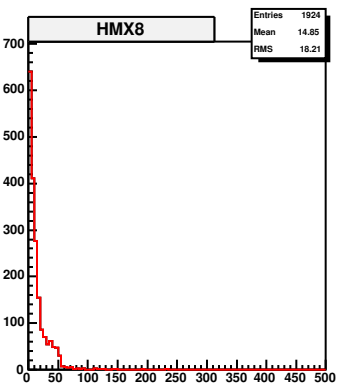



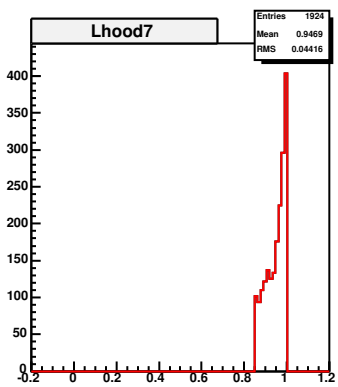



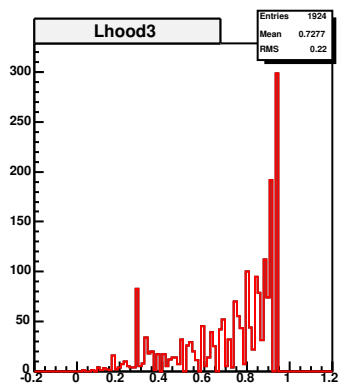



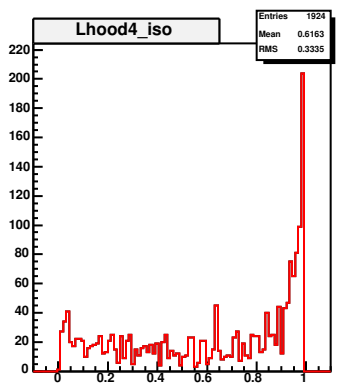



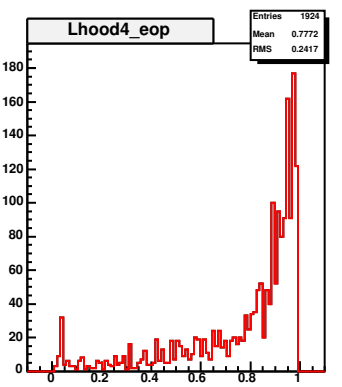



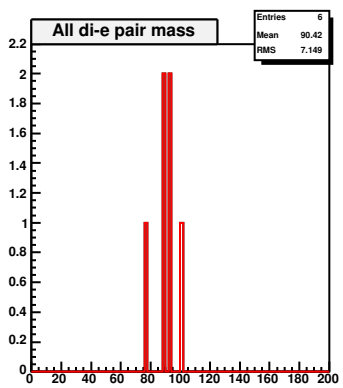



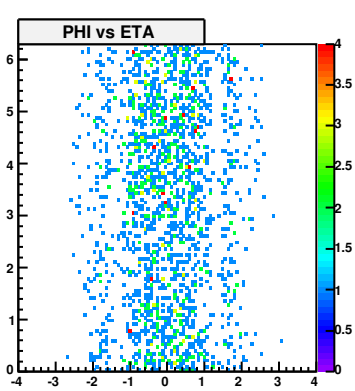



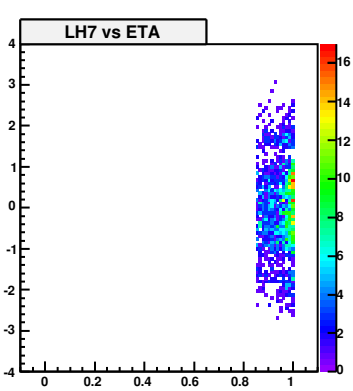



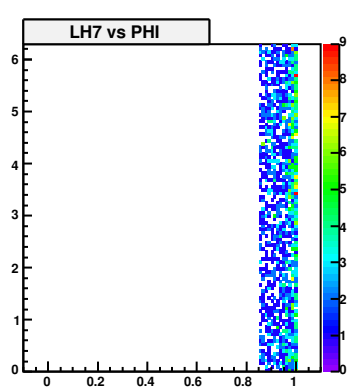



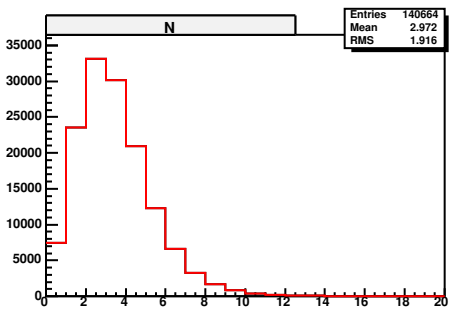




# Electrons (SCONE Tight)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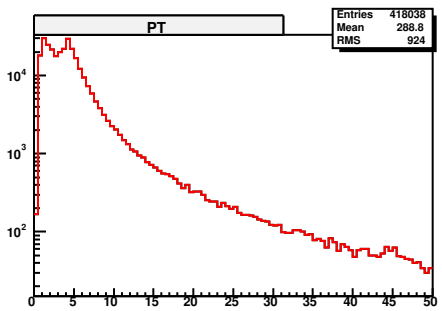
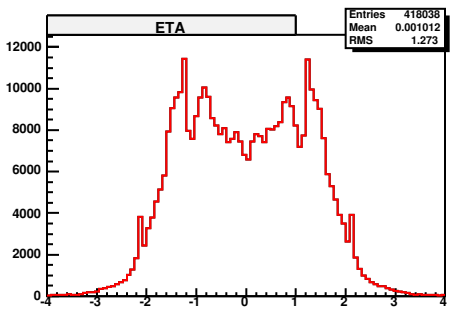
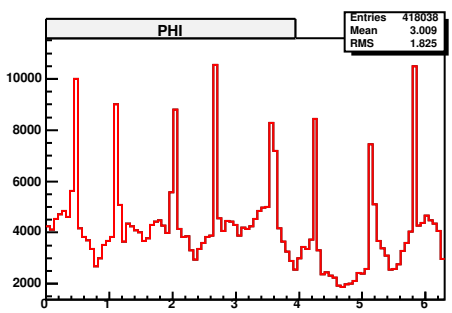
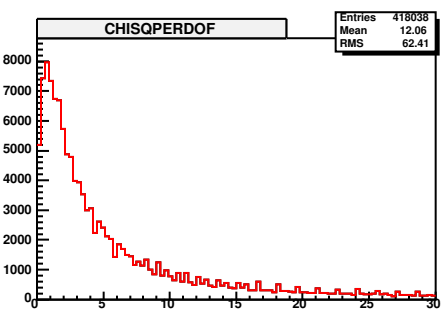
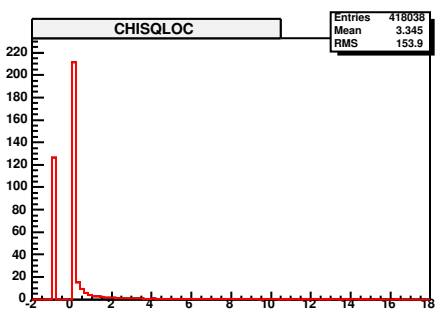
Entries 140664
Mean 2.972
RMS 1.916

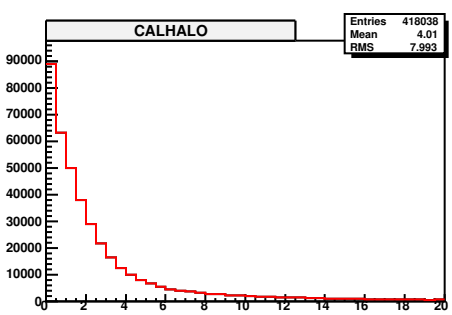

PT
Entries 418038
Mean 288.8
RMS 924

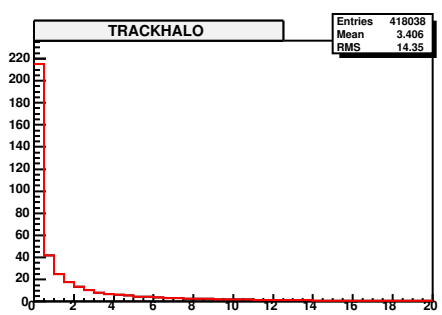

ETA
Entries 418038
Mean 0.001012
RMS 1.273

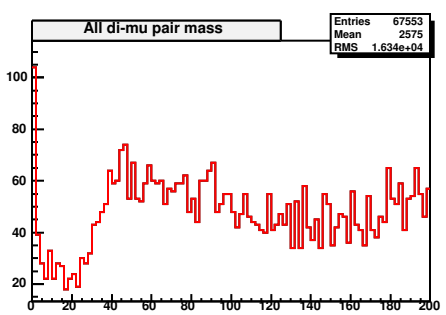

PHI
Entries 418038
Mean 3.009
RMS 1.825

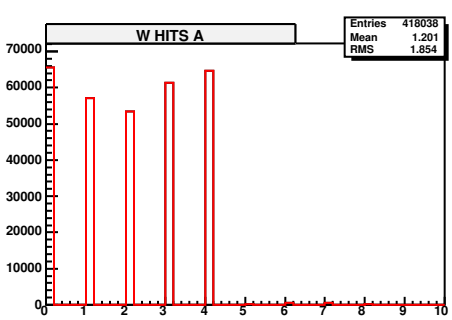

CHISQPERDOF
Entries 418038
Mean 12.06
RMS 62.41

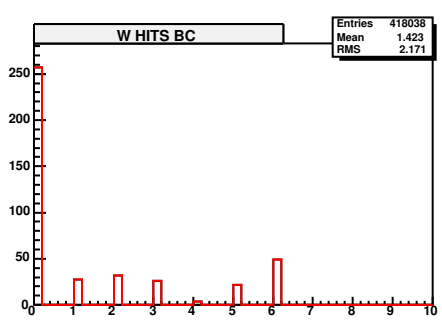

CHISQLOC
Entries 418038
Mean 3.345
RMS 153.9

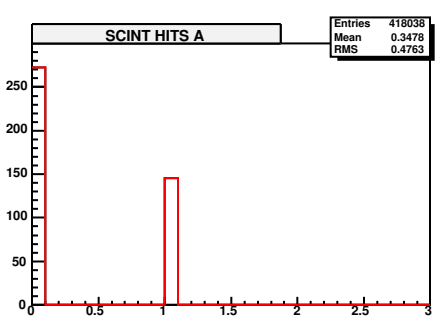

CALHALO
Entries 418038
Mean 4.01
RMS 7.993

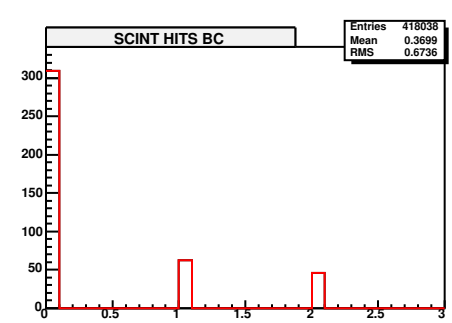

TRACKHALO
Entries 418038
Mean 3.406
RMS 14.35


All di-mu pair mass
Entries 67553
Mean 2575
RMS 1.634e+04

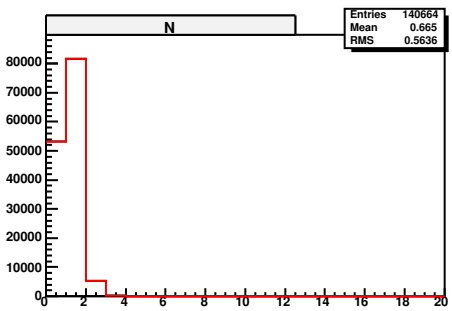

W HITS A
Entries 418038
Mean 1.201
RMS 1.854

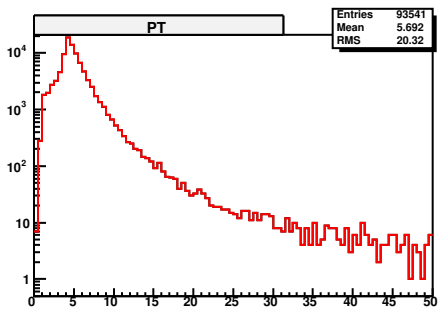

W HITS BC
Entries 418038
Mean 1.423
RMS 2.171

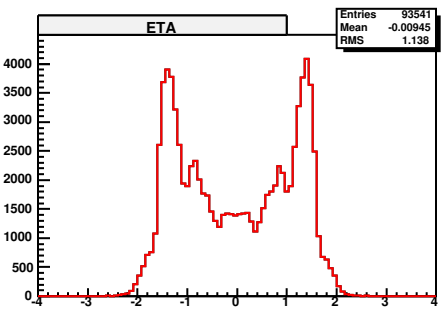

SCINT HITS A
Entries 418038
Mean 0.3478
RMS 0.4763

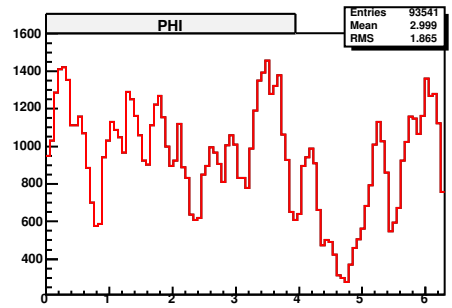

SCINT HITS BC
Entries 418038
Mean 0.3699
RMS 0.6736

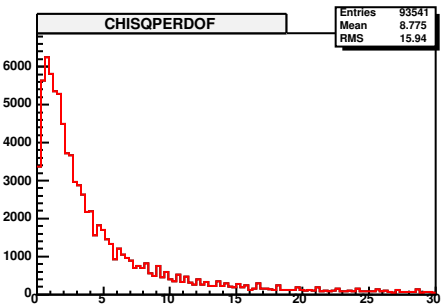
# Muons (All)

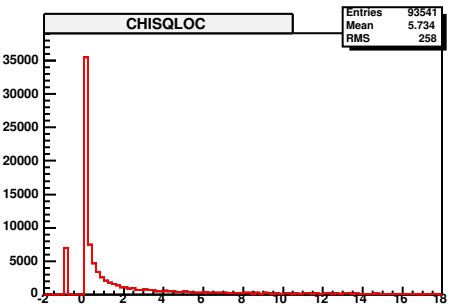


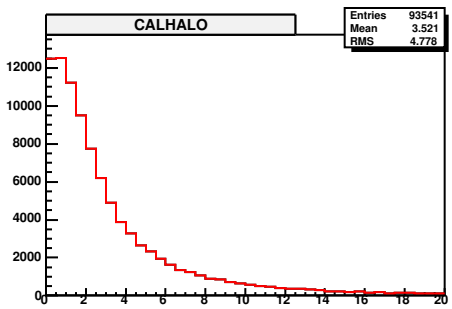



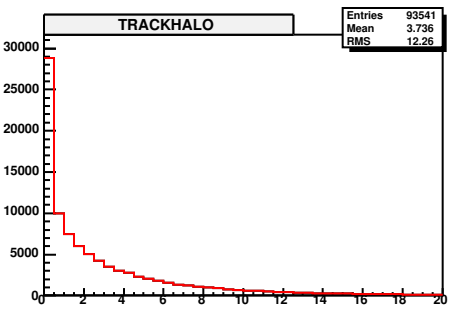



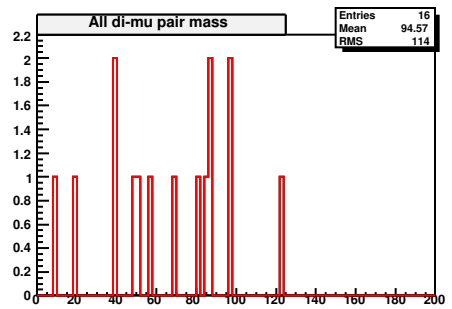



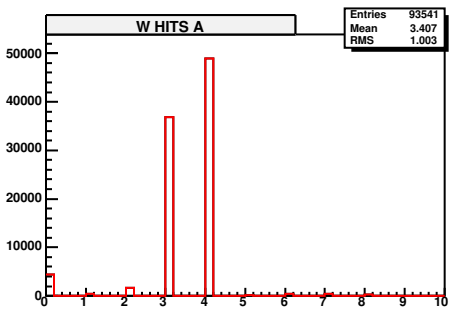



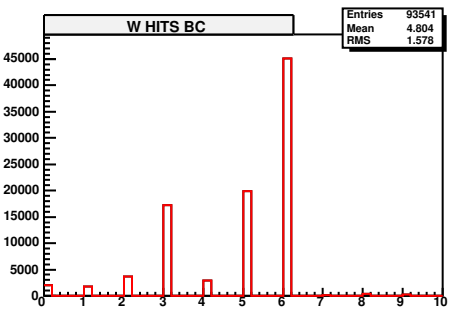



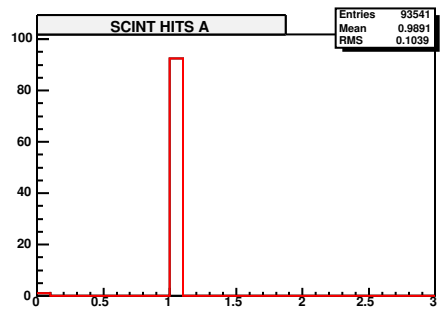



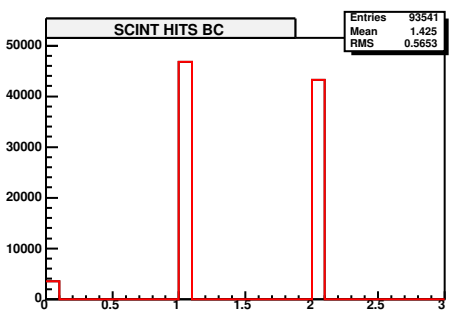



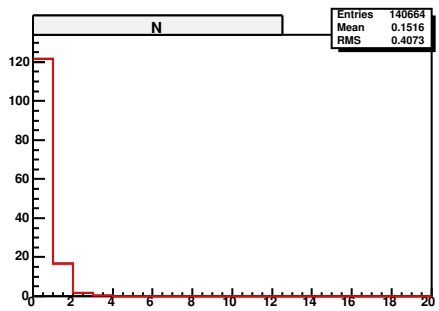



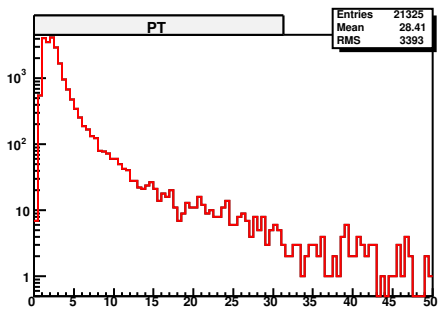



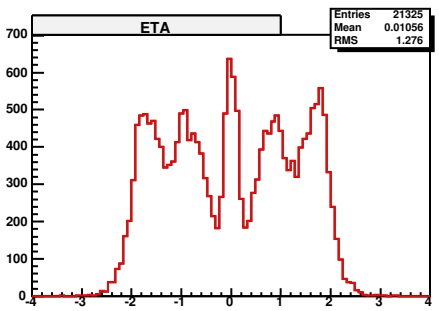



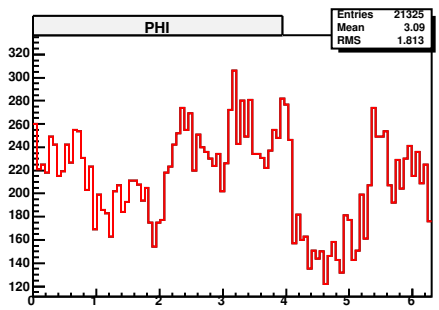



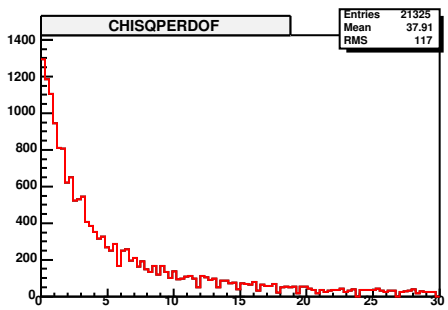

# Muons (Matched)

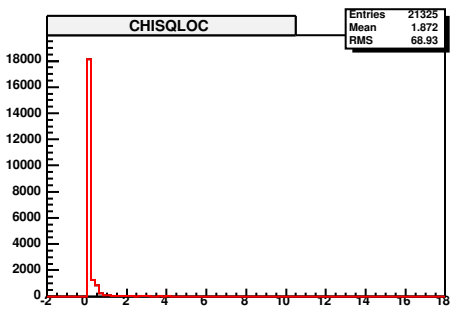

N
Entries 140664
Mean 0.1516
RMS 0.4073

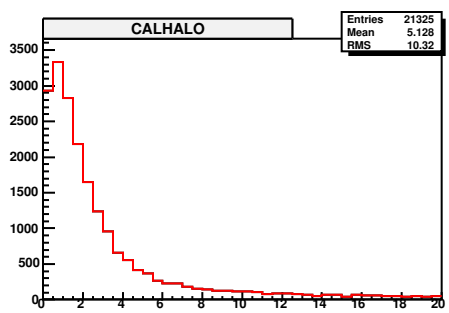

PT
Entries 21325
Mean 28.41
RMS 3393

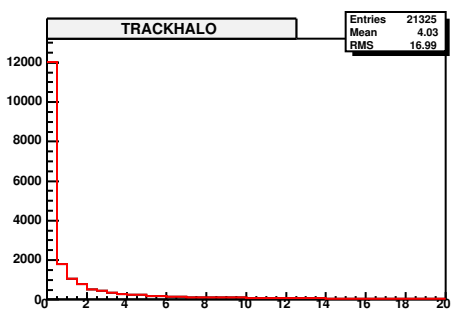

ETA
Entries 21325
Mean 0.01056
RMS 1.276

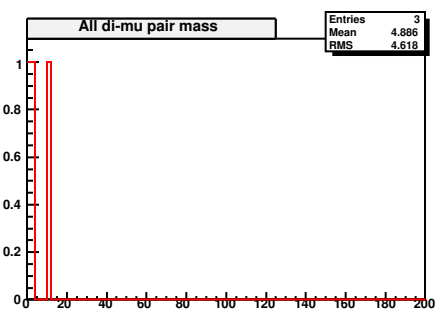

PHI
Entries 21325
Mean 3.09
RMS 1.813

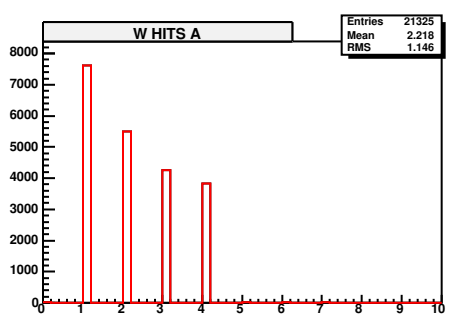

CHISQPERDOF
Entries 21325
Mean 37.91
RMS 117

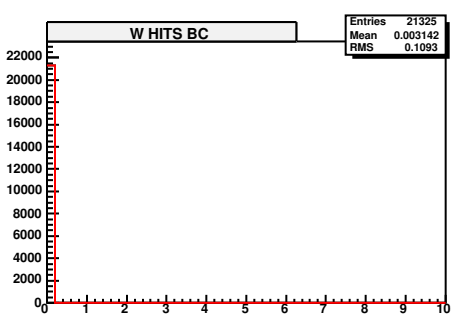

CHISQLOC
Entries 21325
Mean 1.872
RMS 68.93

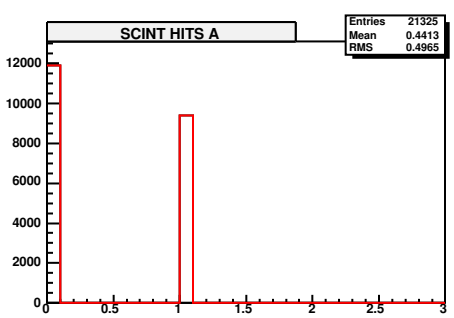

CALHALO
Entries 21325
Mean 5.128
RMS 10.32

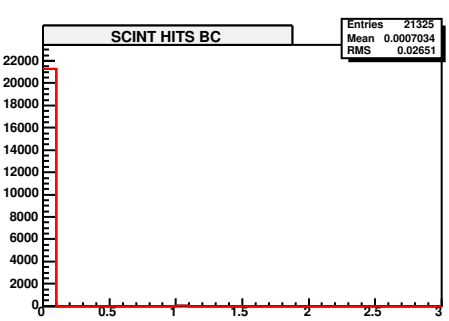

TRACKHALO
Entries 21325
Mean 4.03
RMS 16.99


All di-mu pair mass
Entries 3
Mean 4.886
RMS 4.618

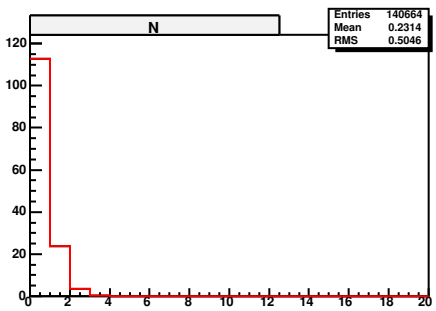

W HITS A
Entries 21325
Mean 2.218
RMS 1.146

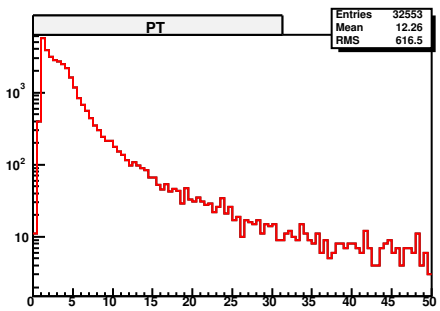

W HITS BC
Entries 21325
Mean 0.003142
RMS 0.1093

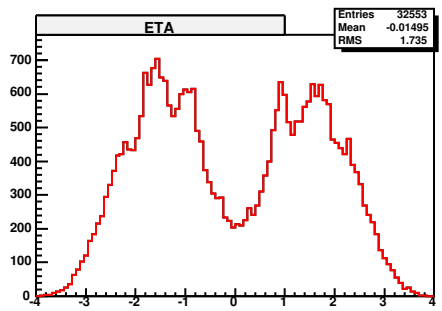

SCINT HITS A
Entries 21325
Mean 0.4413
RMS 0.4965

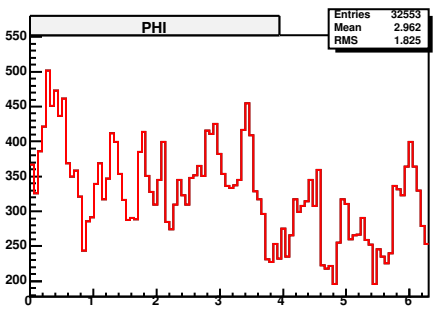

SCINT HITS BC
Entries 21325
Mean 0.0007034
RMS 0.02651

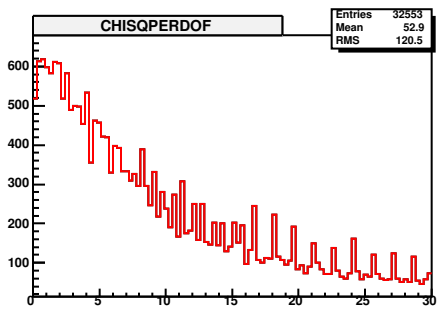
# Muons (Astub)

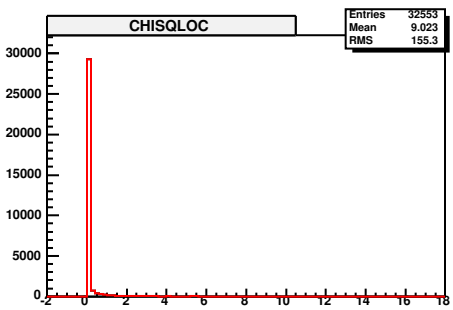


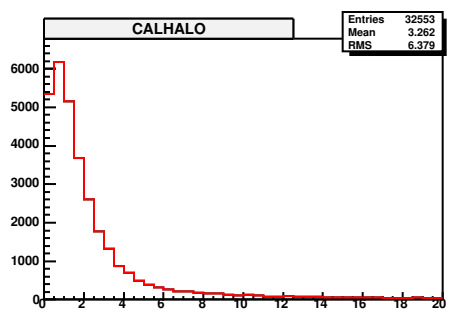



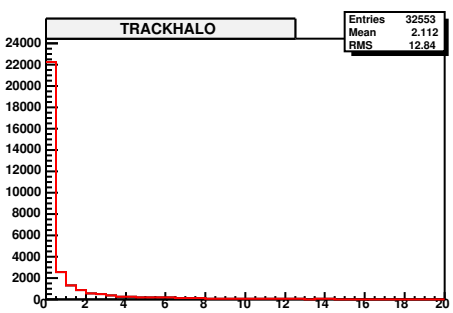



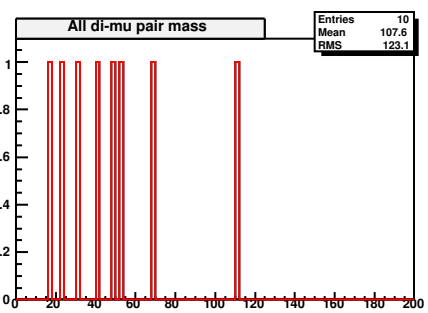



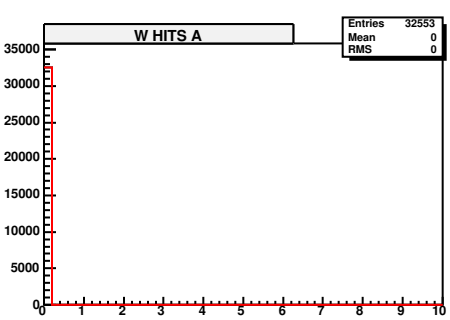



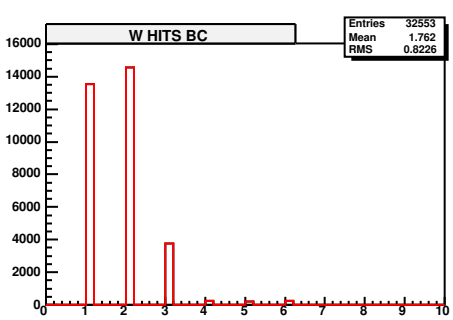



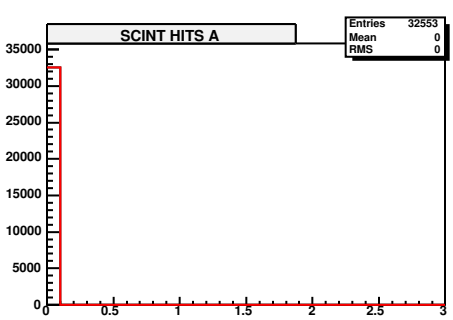



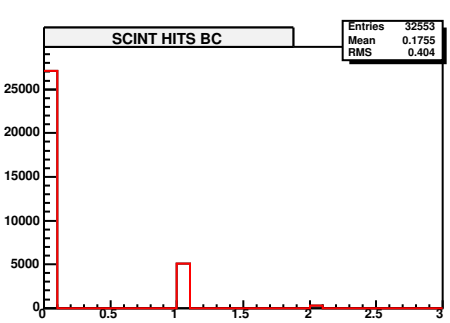



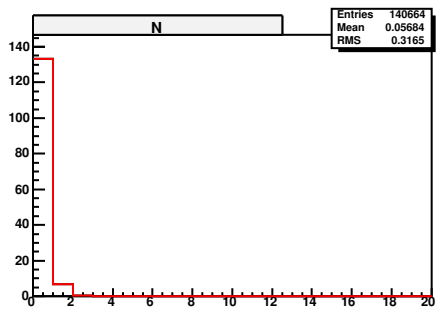



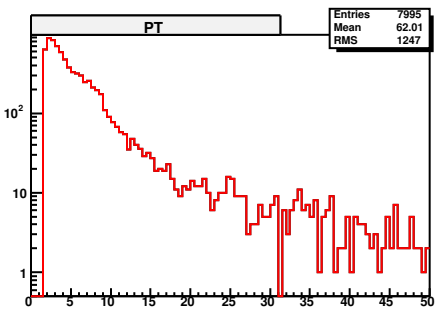



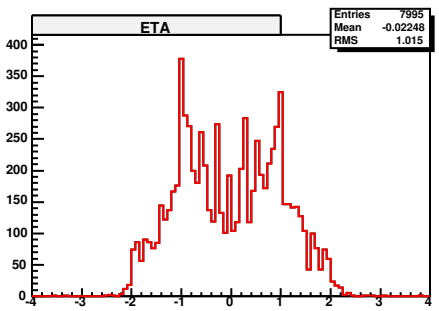



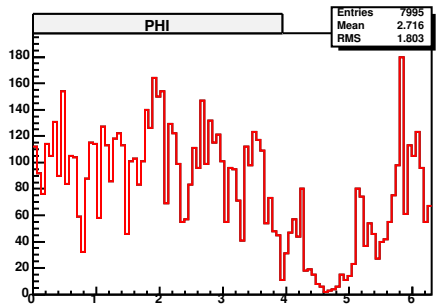



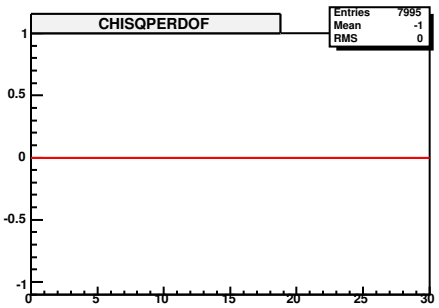

# Muons (BCstub)

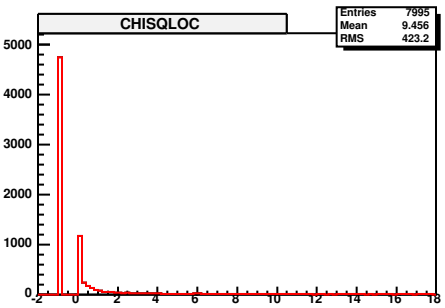


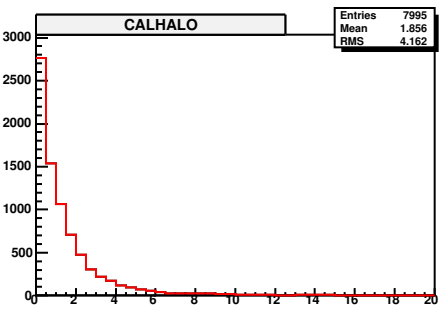



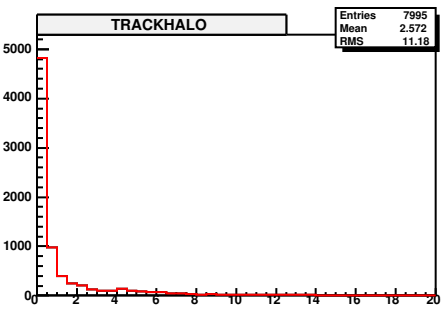



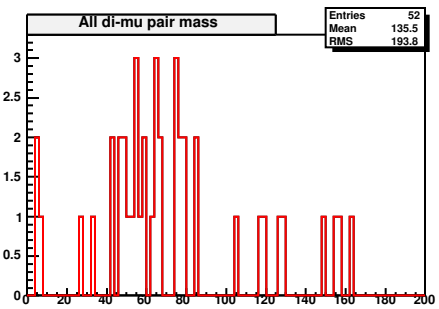



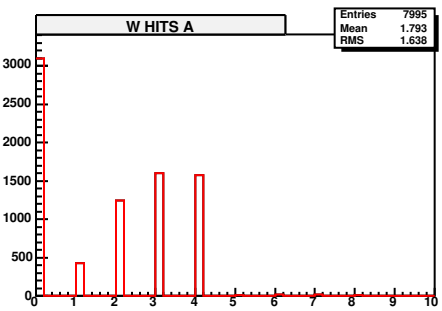



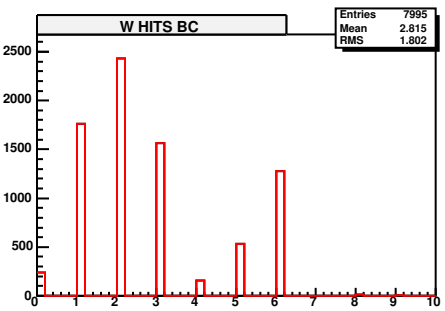



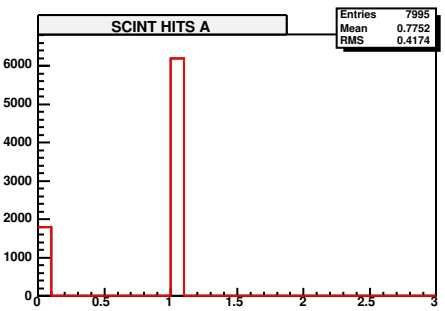



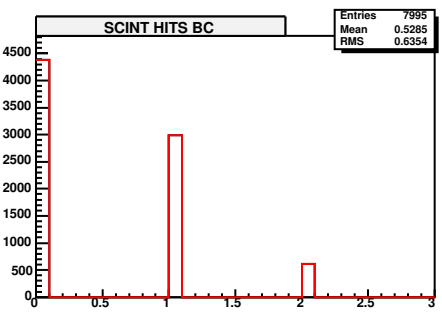



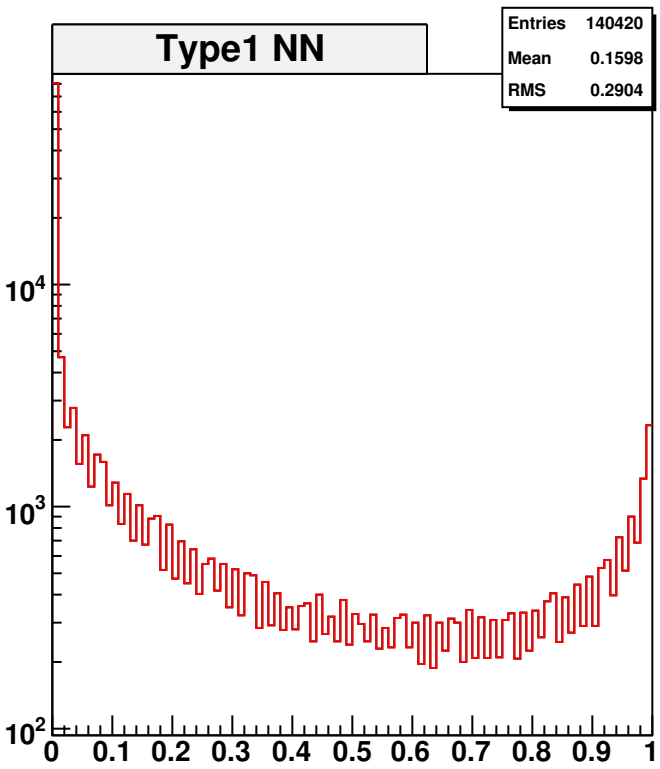



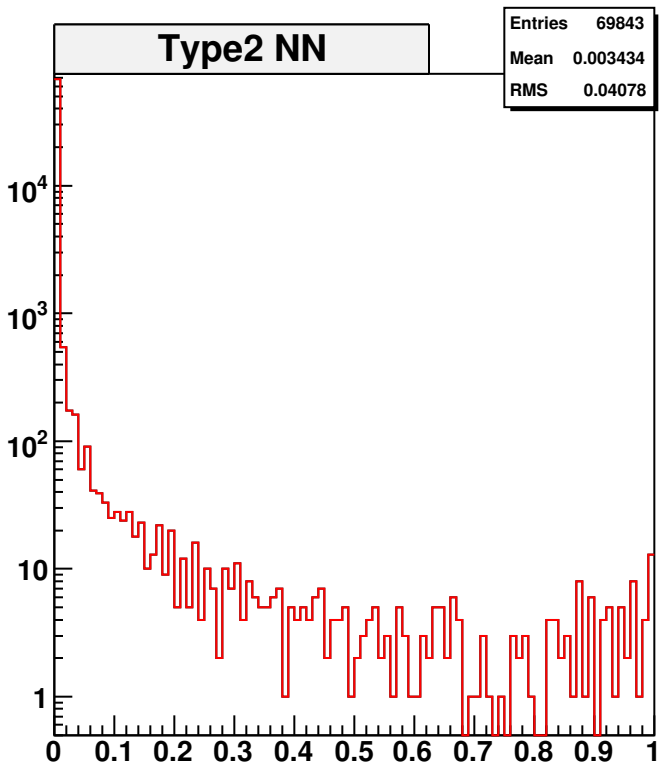



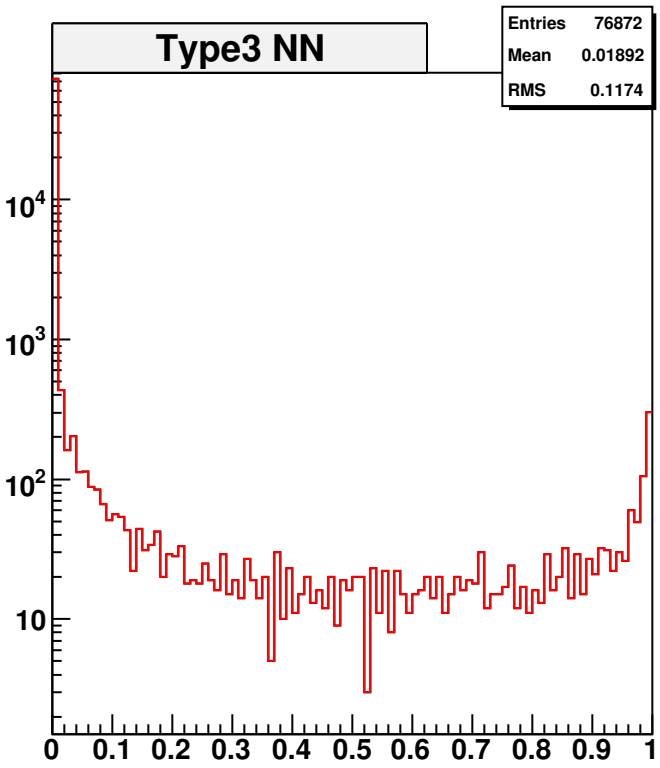



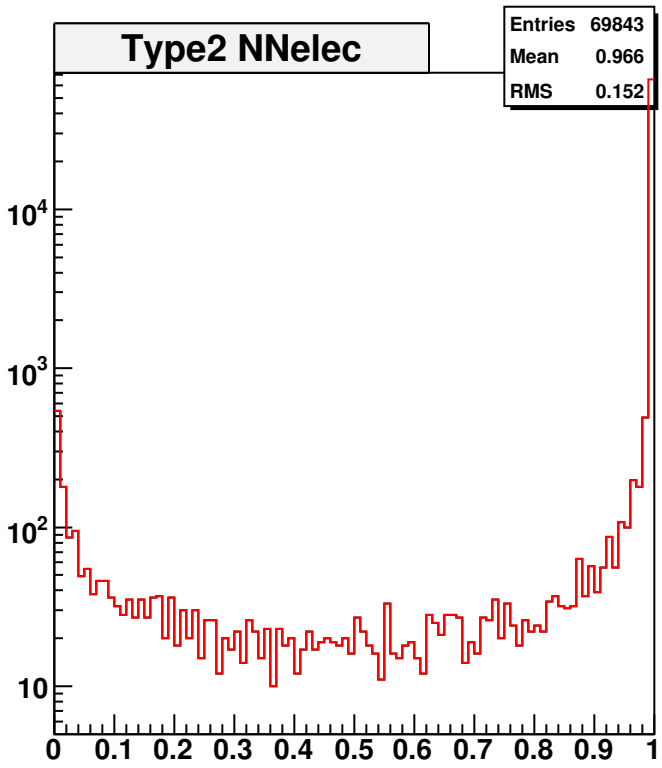




# Muons (Unmatched)

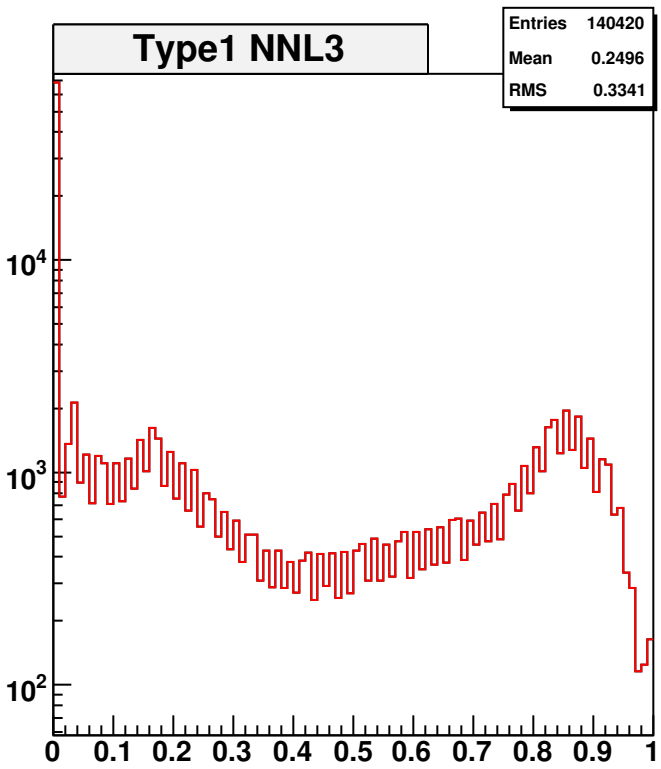


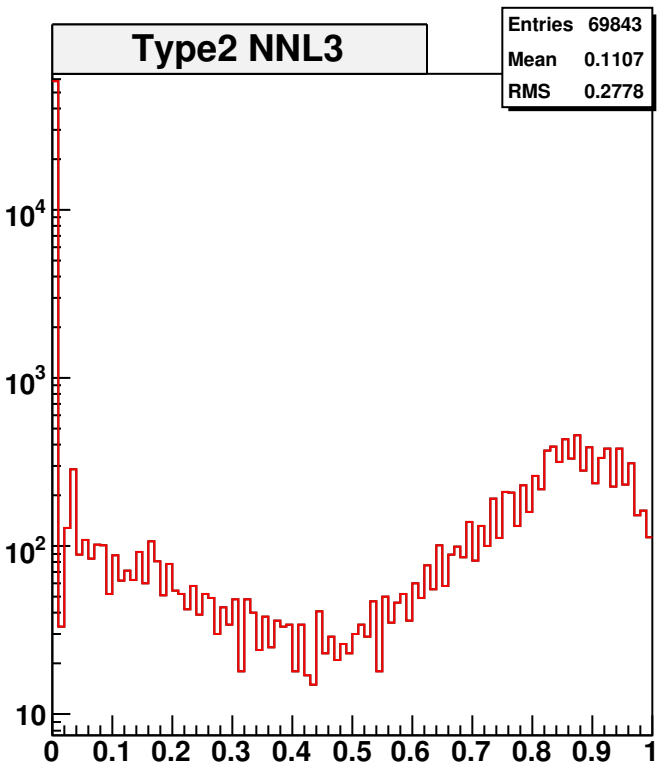



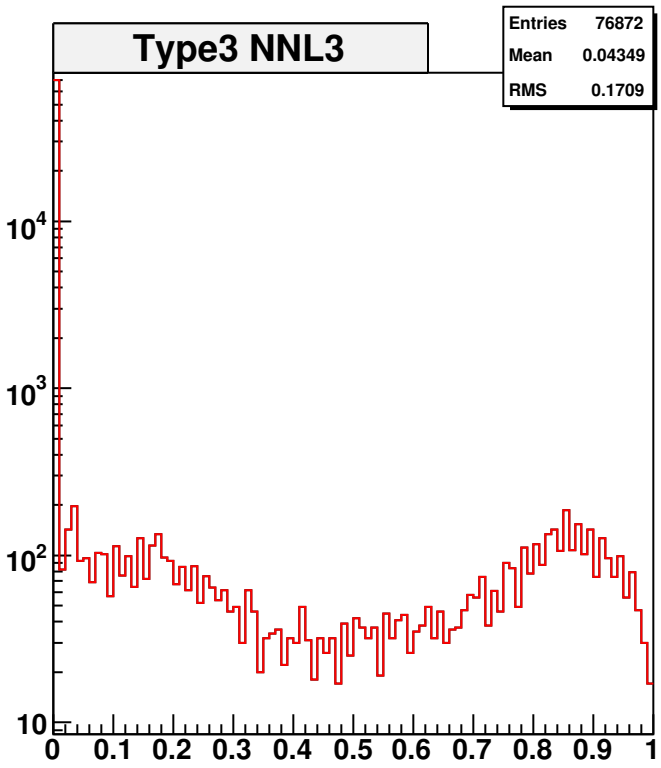



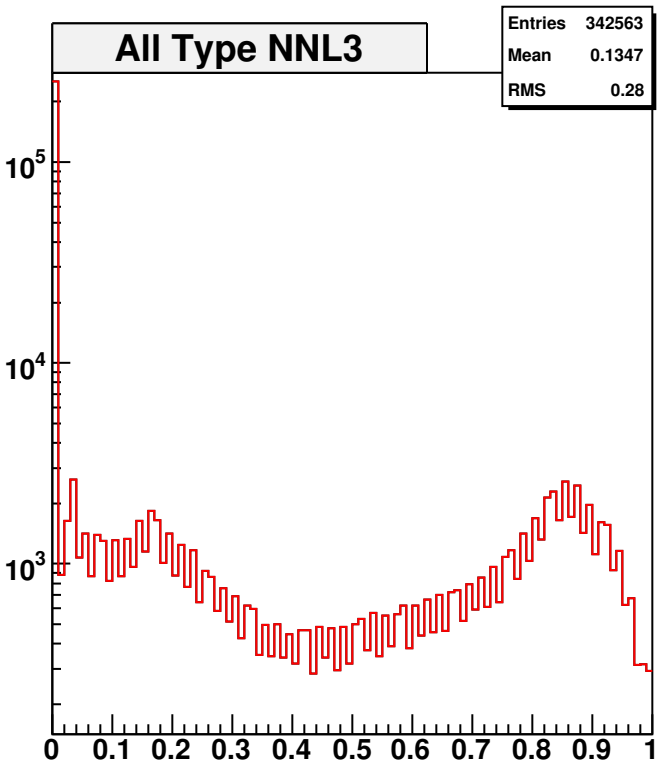




**Taus NN (TAU All)**

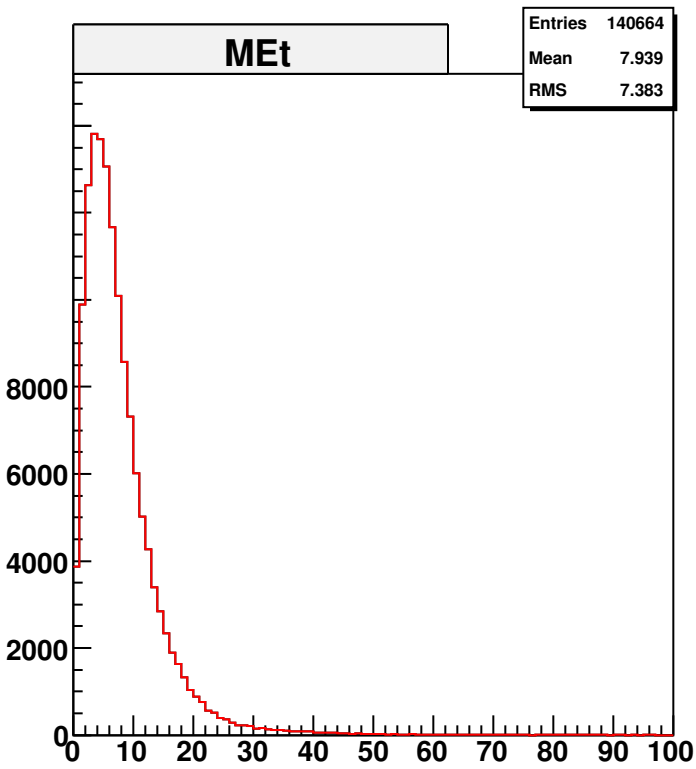


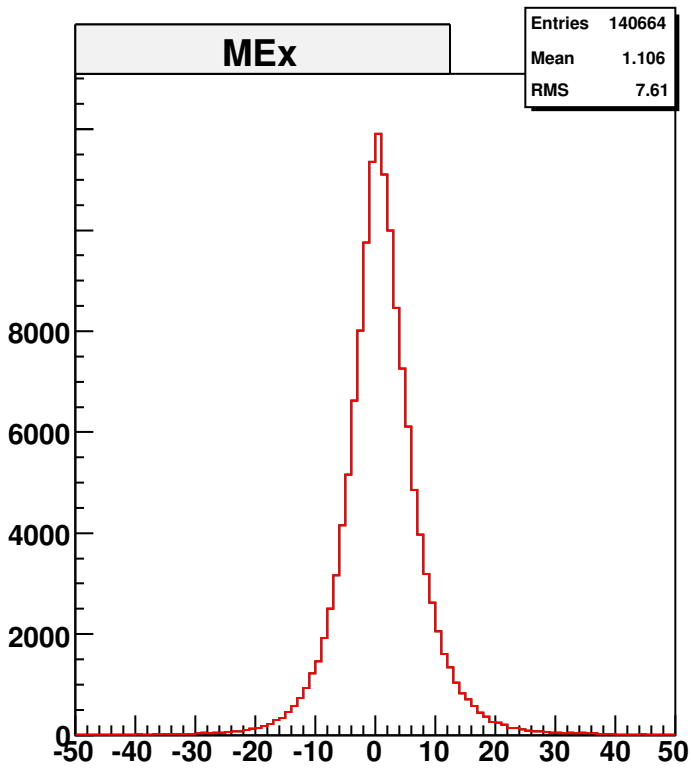



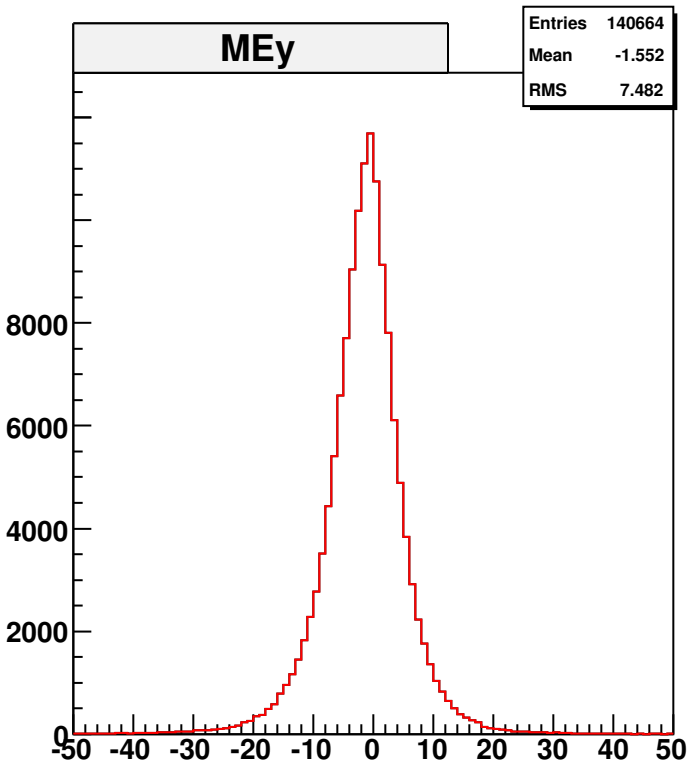



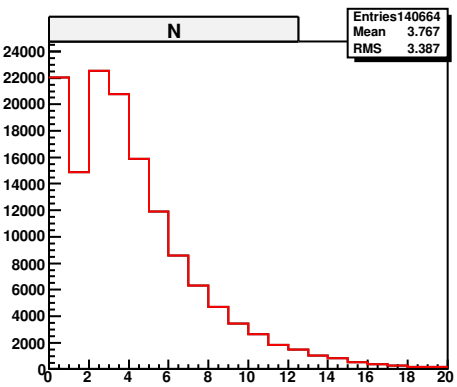

**Taus NNL3 (TAU All)**

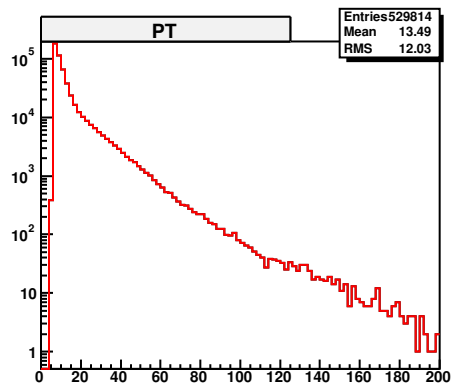

MEt
Entries 140664
Mean 7.939
RMS 7.383
8000
6000
4000
2000
0
0 10 20 30 40 50 60 70 80 90 100

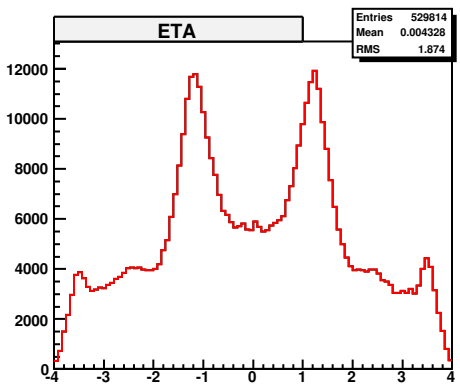

MEx
Entries 140664
Mean 1.106
RMS 7.61
8000
6000
4000
2000
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

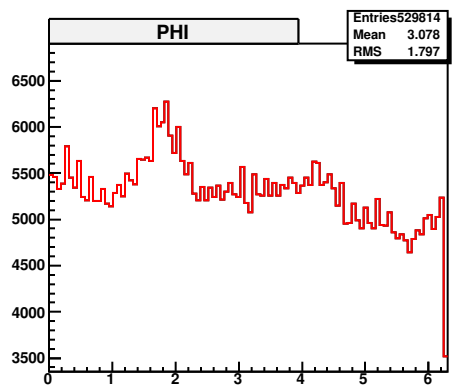

MEy
Entries 140664
Mean -1.552
RMS 7.482
8000
6000
4000
2000
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

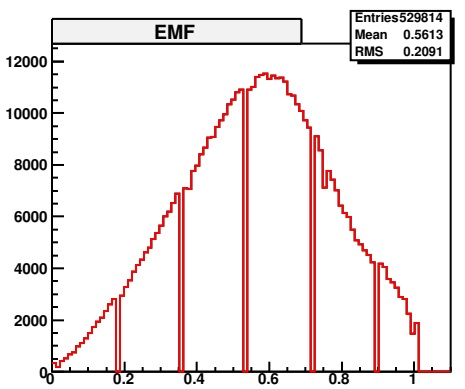
**Met (No cuts)**

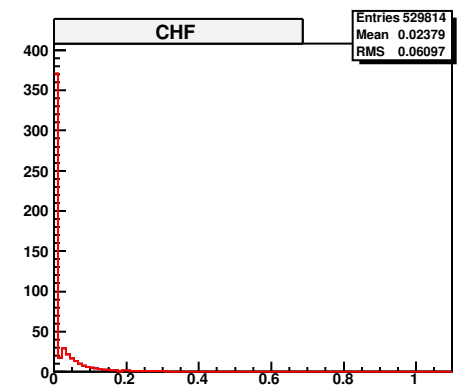


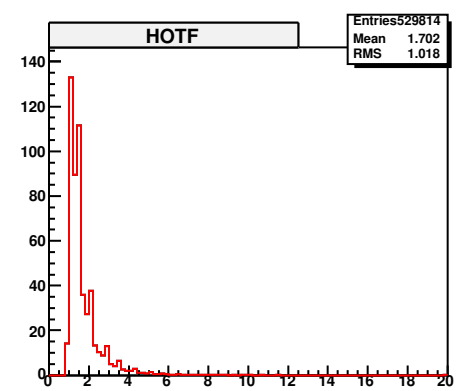



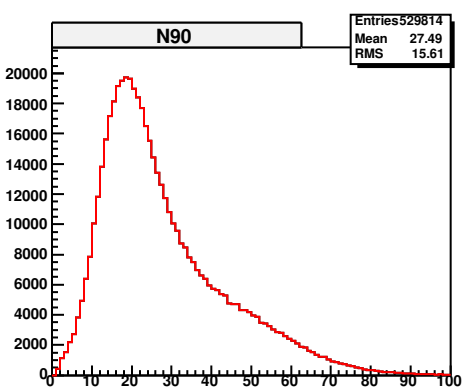



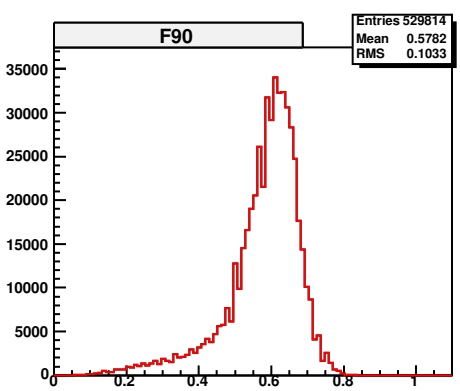



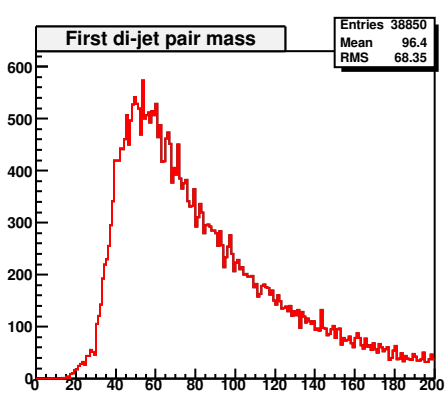



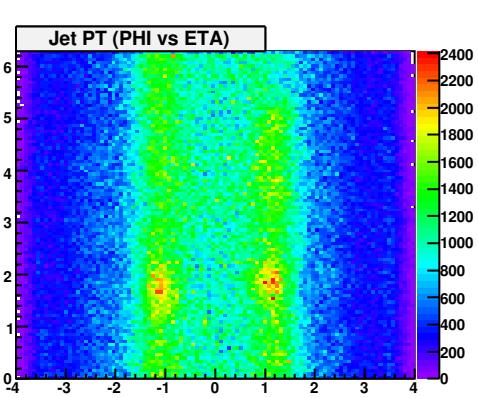



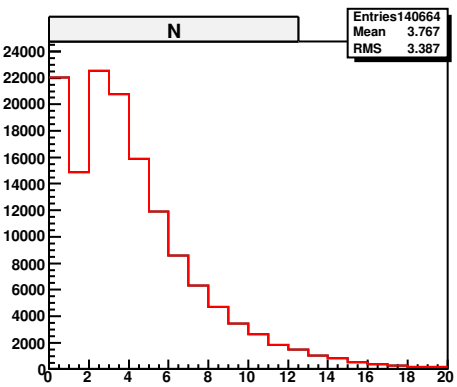



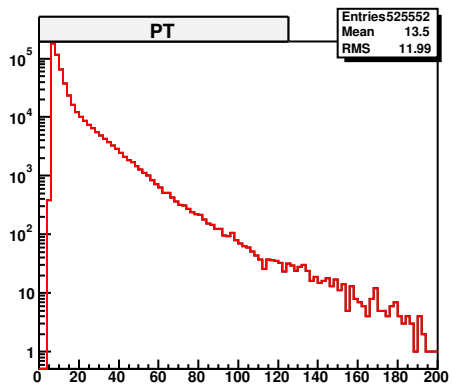



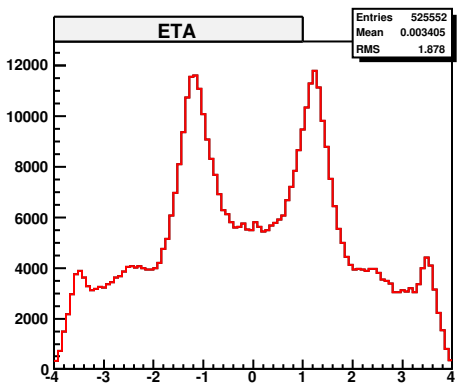



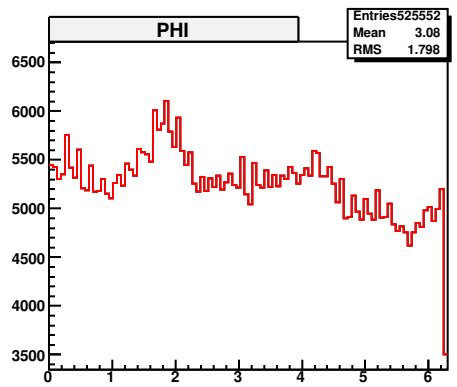



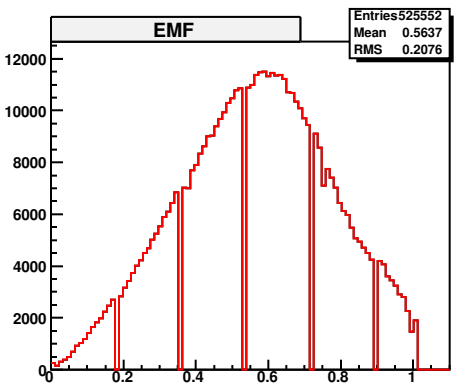

# Jets (Cone R 0.7 (no cuts))

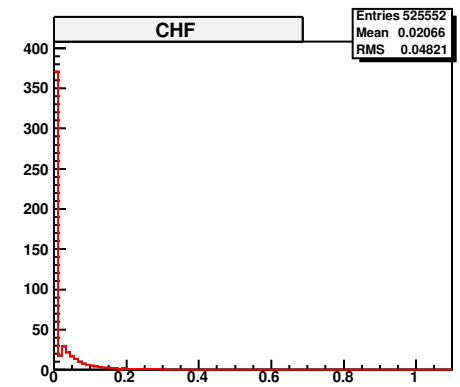


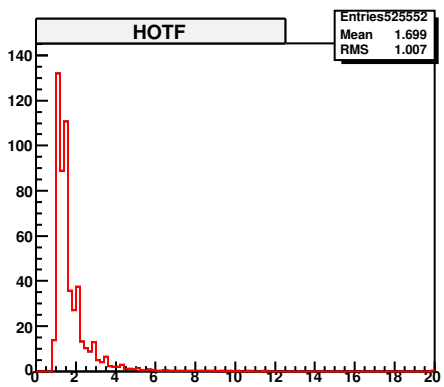



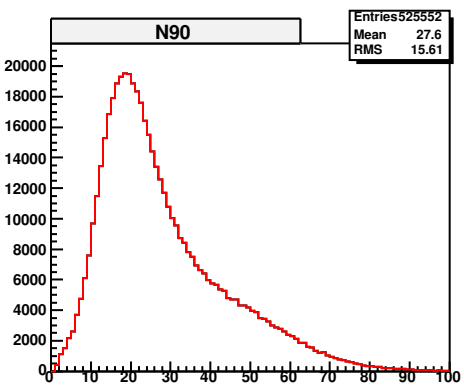



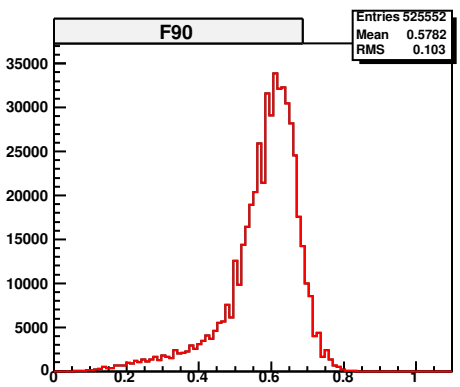



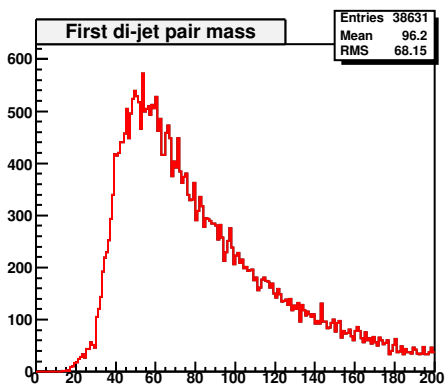



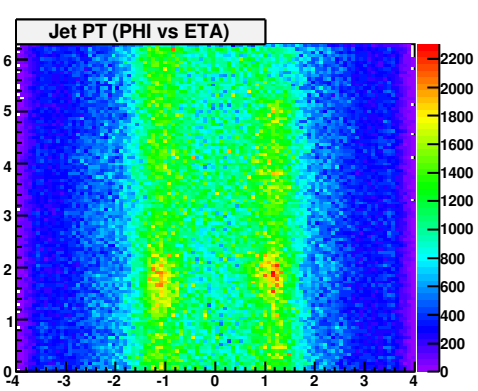



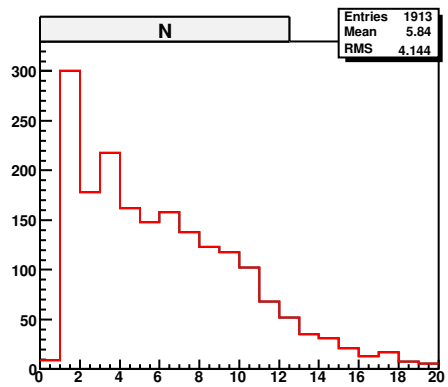



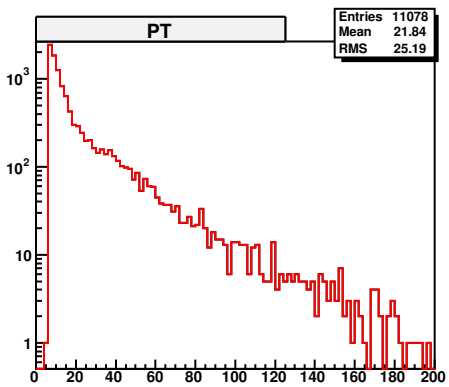



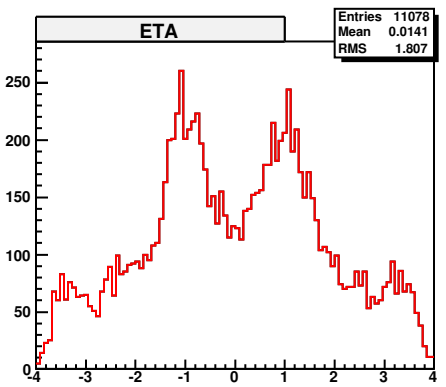



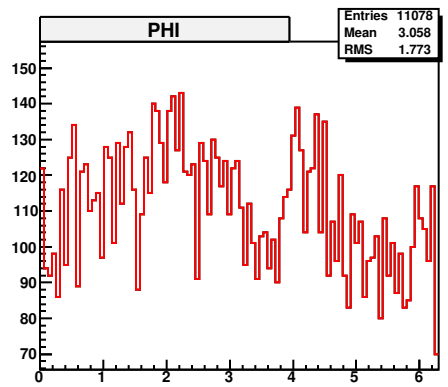



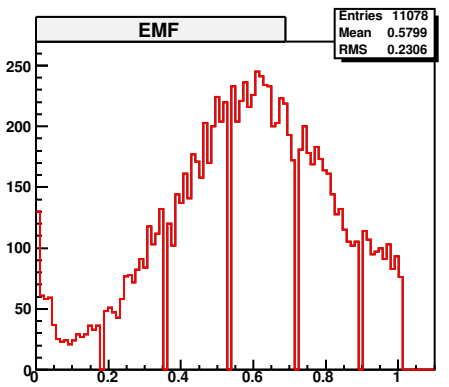

# Jets (Cone R 0.7 (standard cuts))

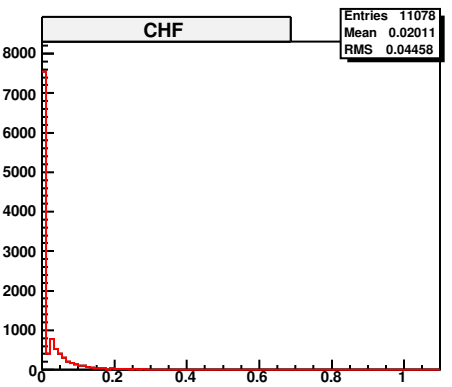


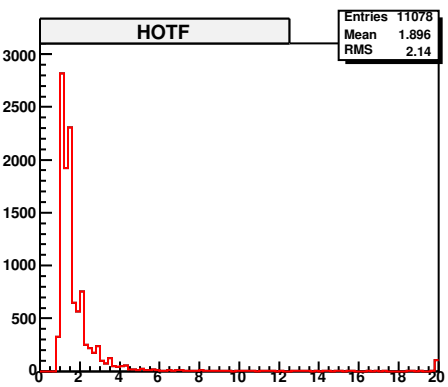



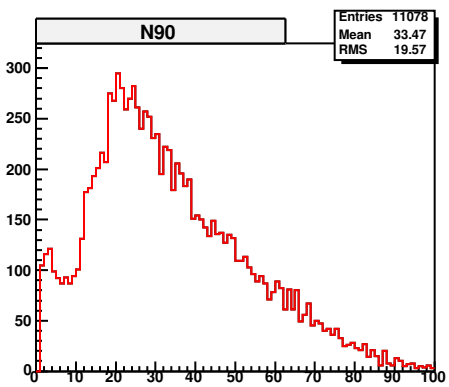



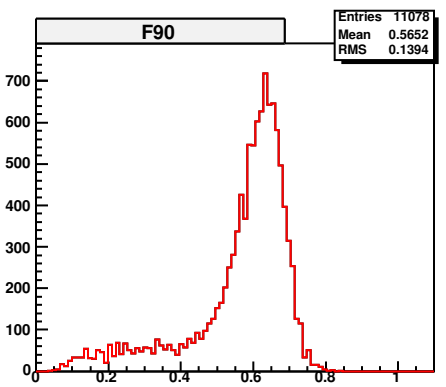



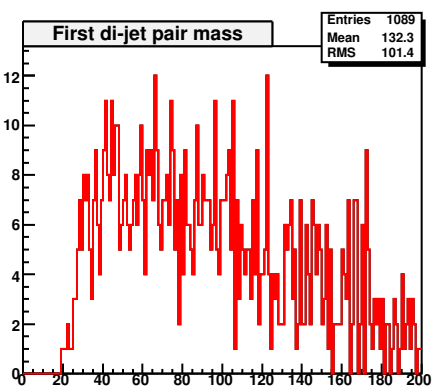



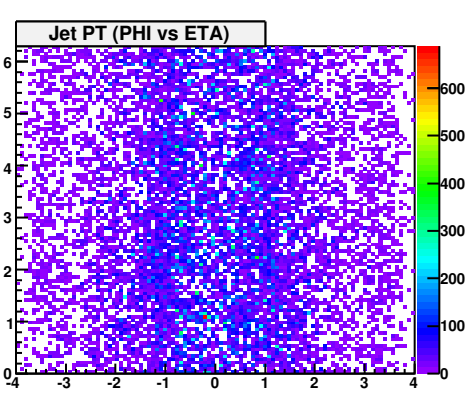



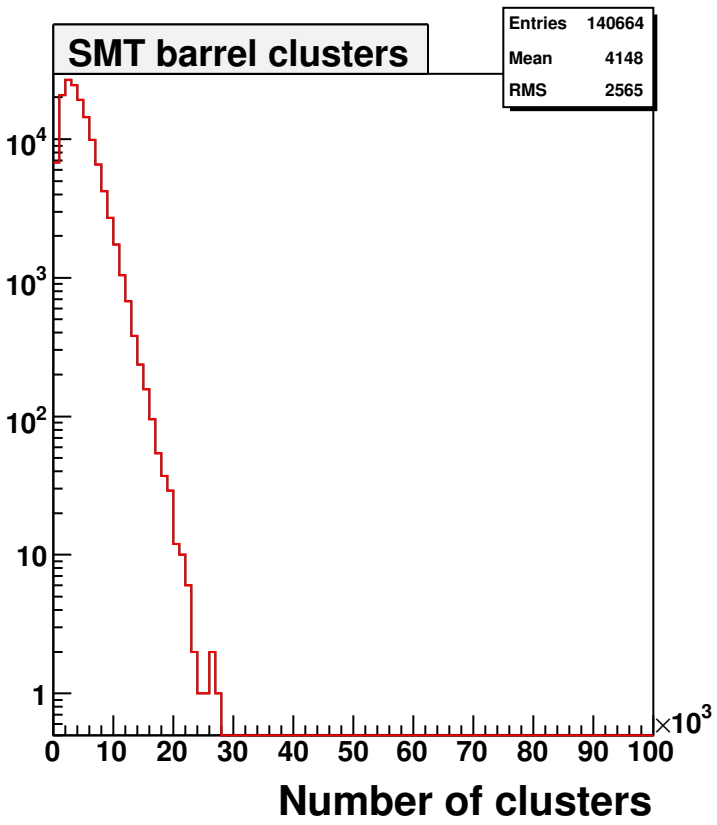



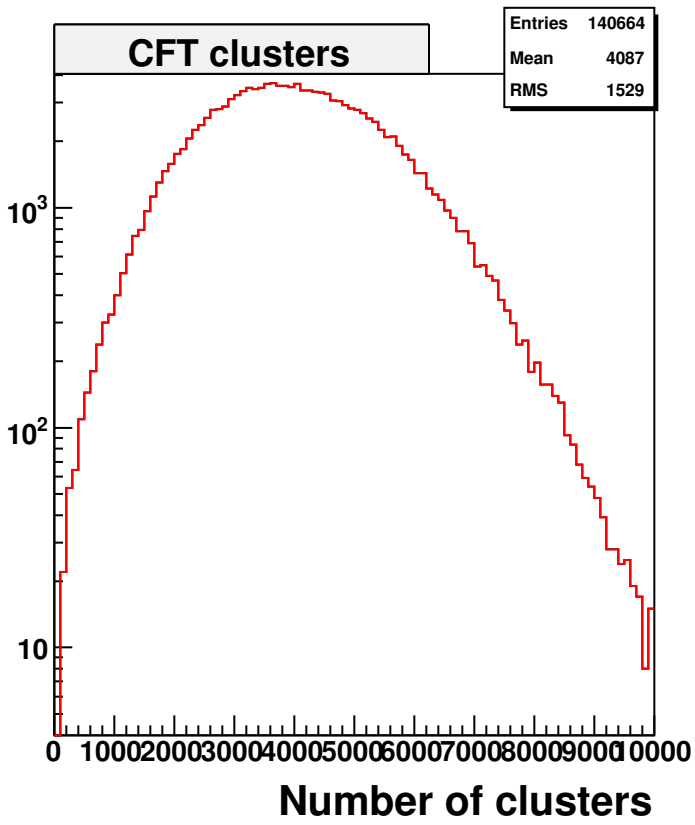



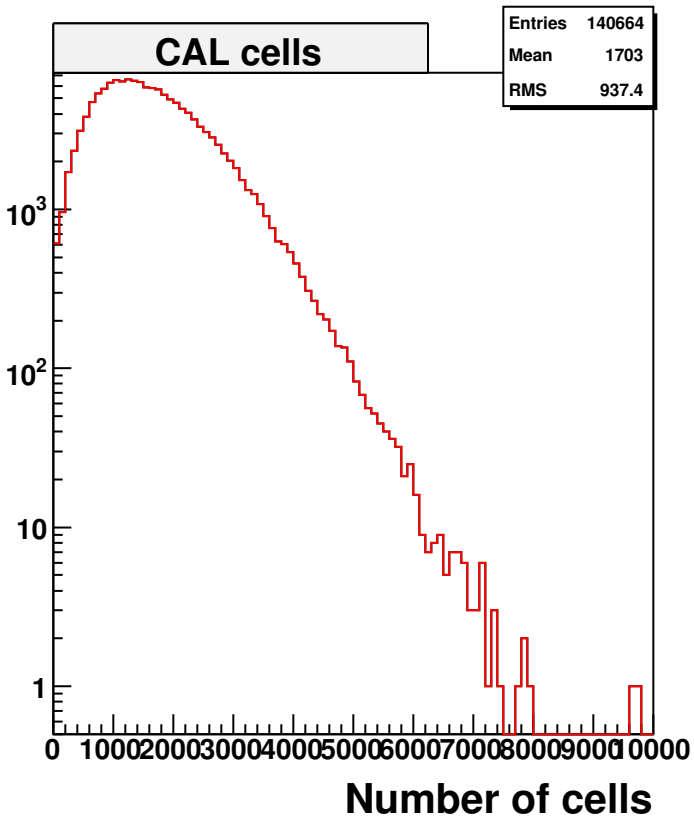



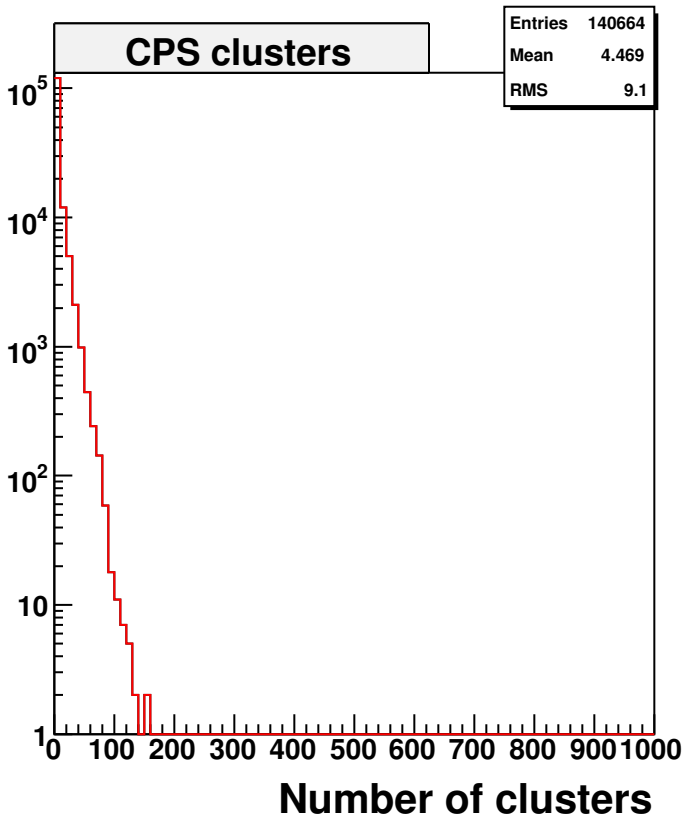




# Jets (Cone R 0.7 (standard cuts, MET>30))

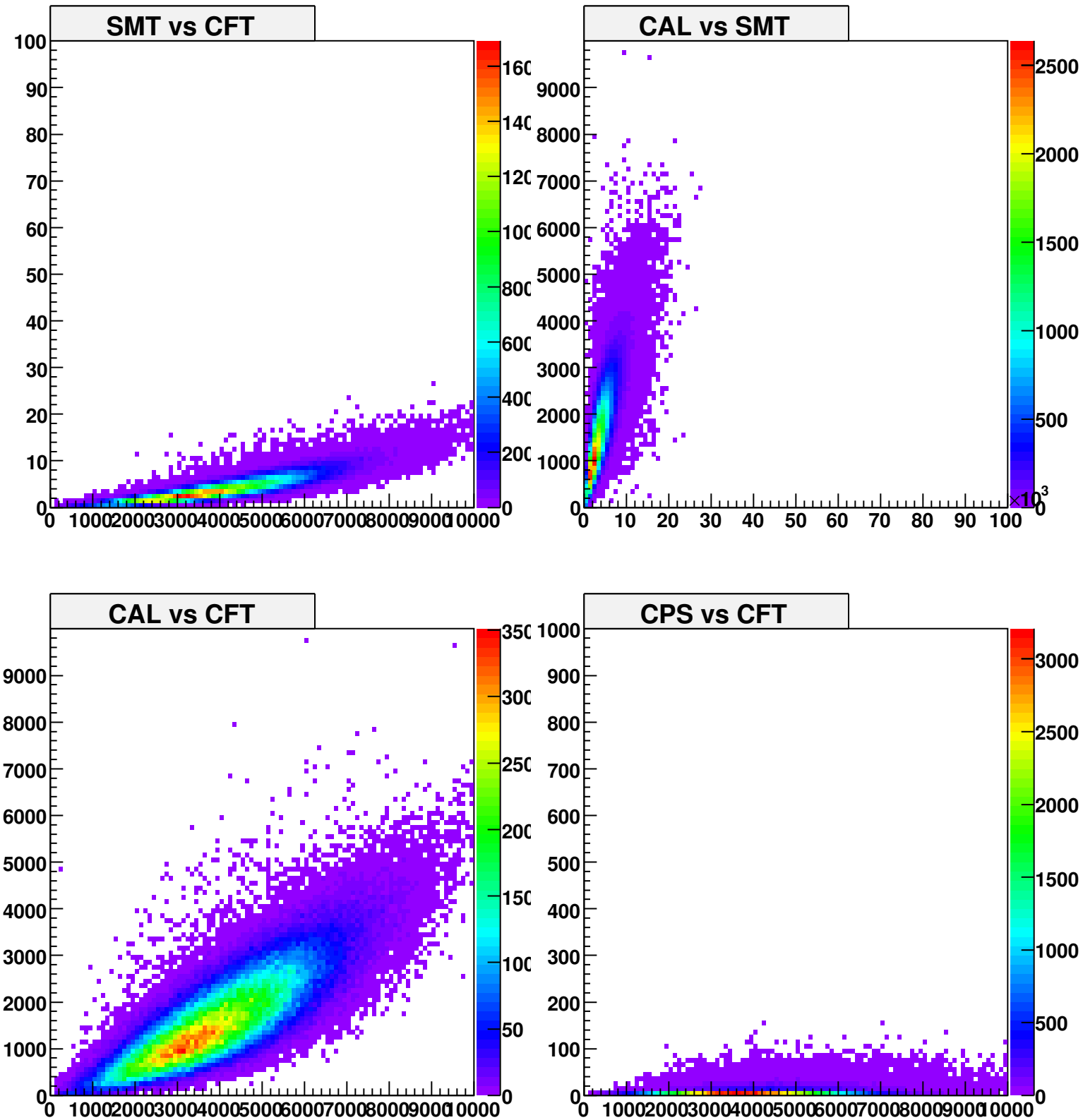


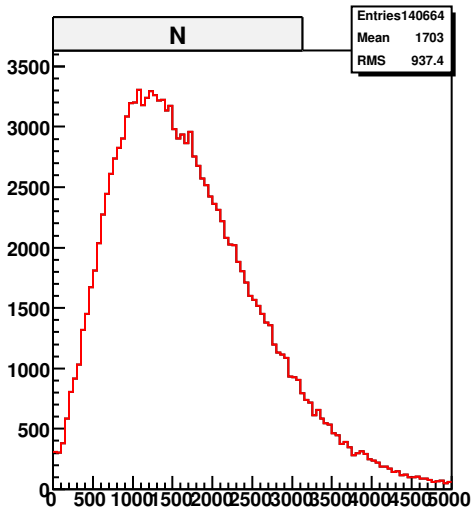



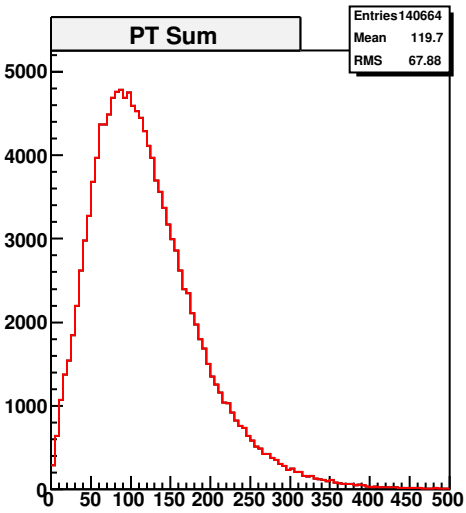



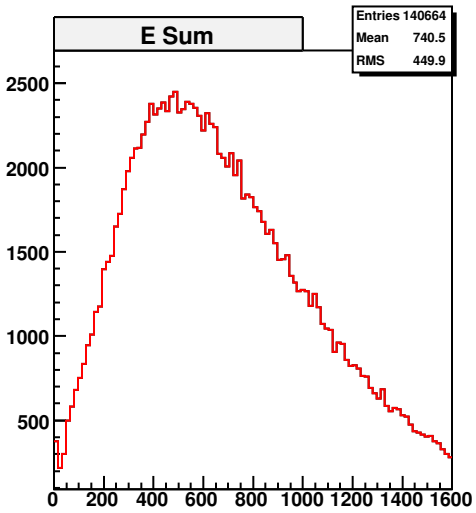

Detector Occupancy (Detector)

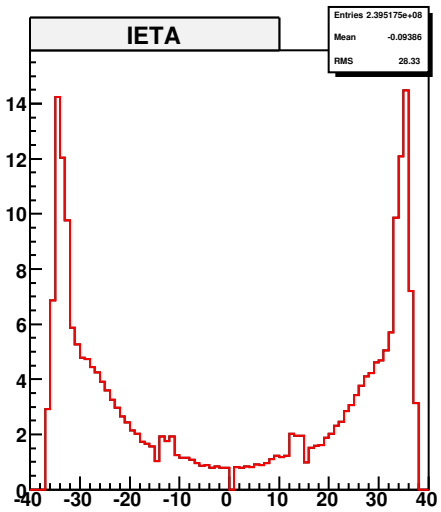


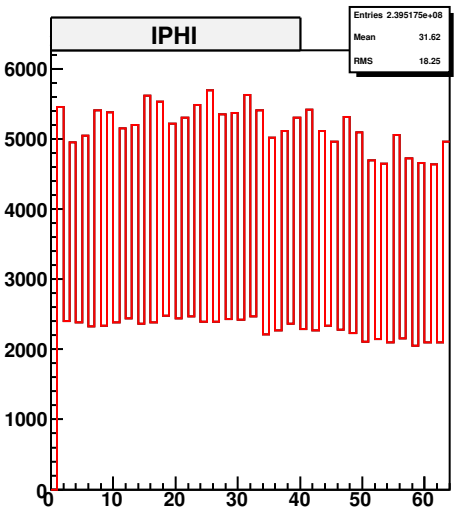

Detector Occupancy (Detector)

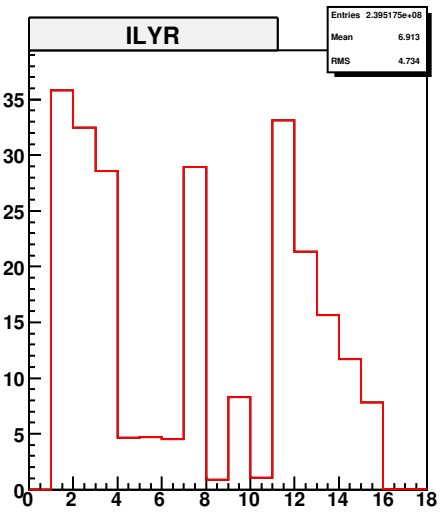


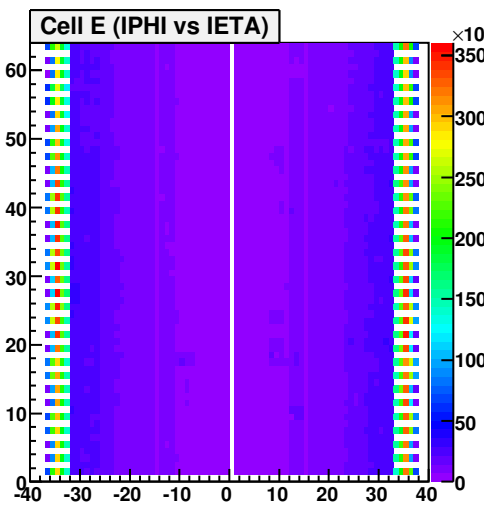



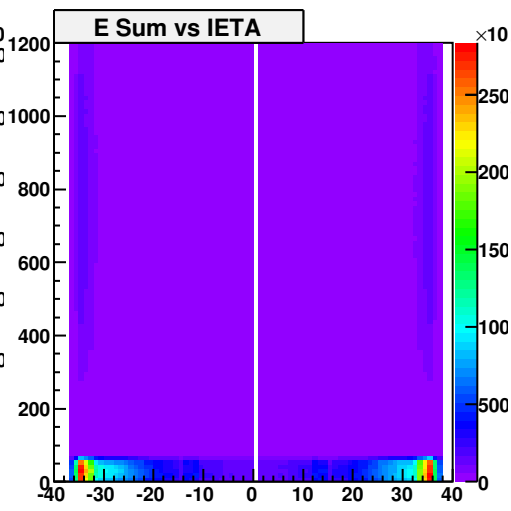



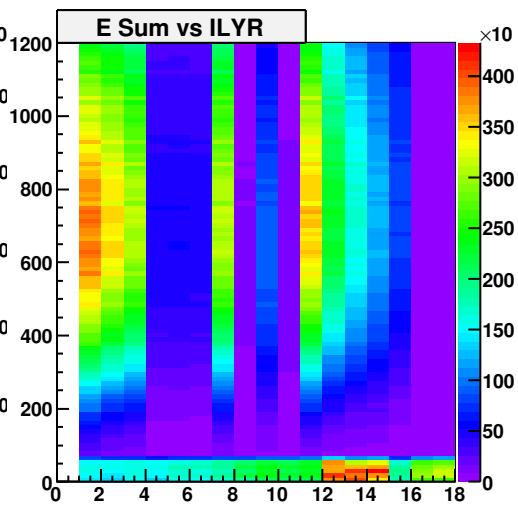



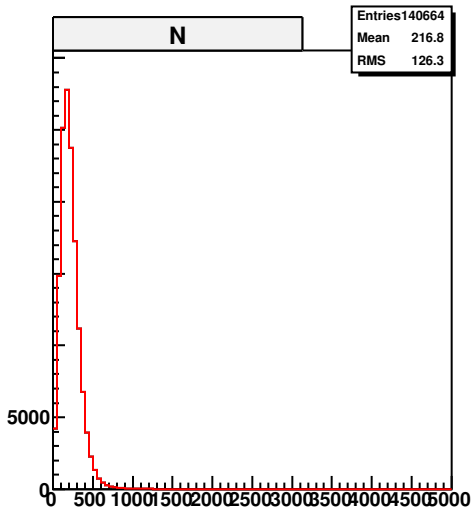



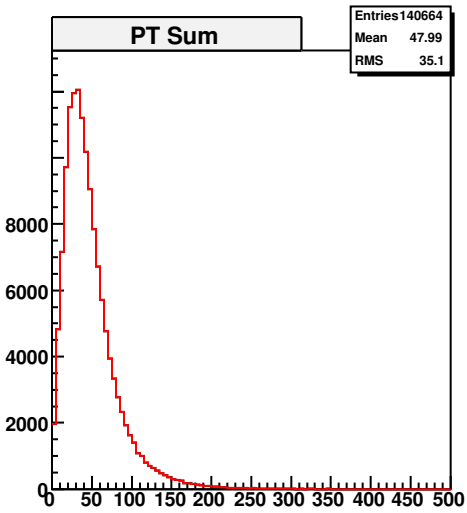



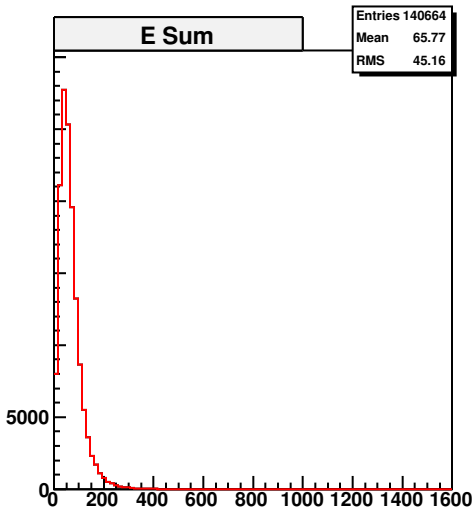



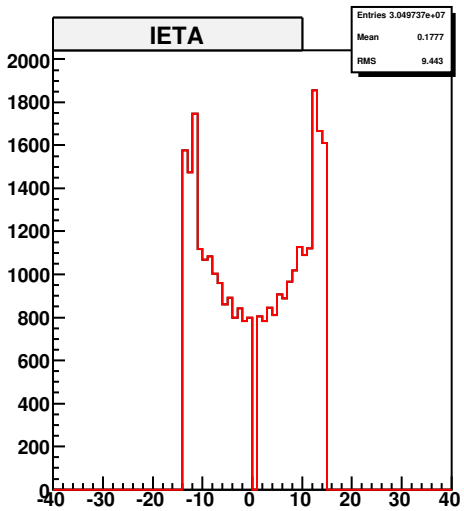



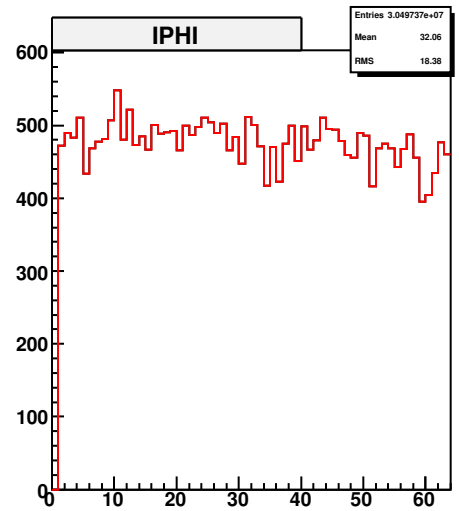

# Calorimeter (All cells)

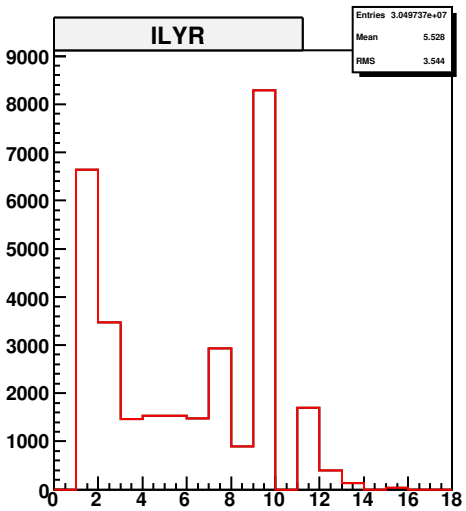


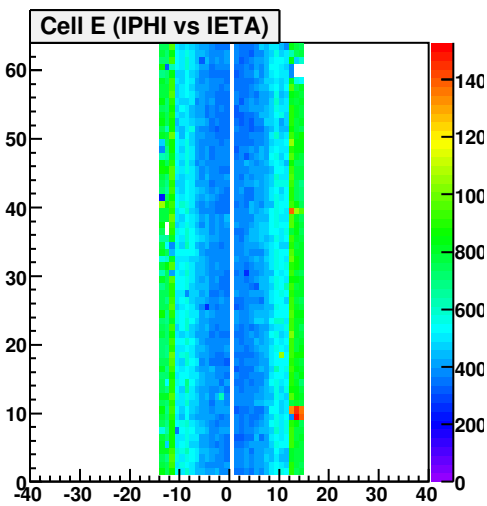



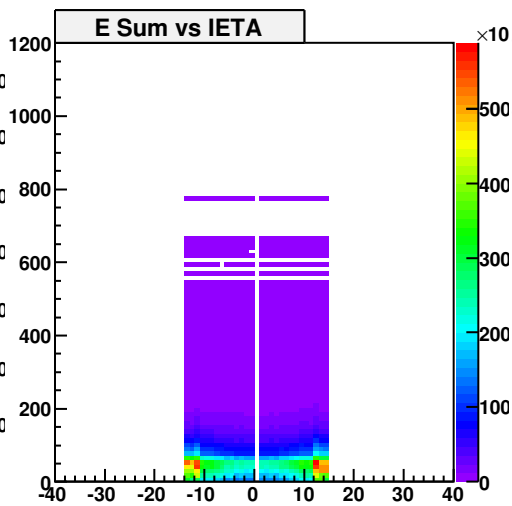



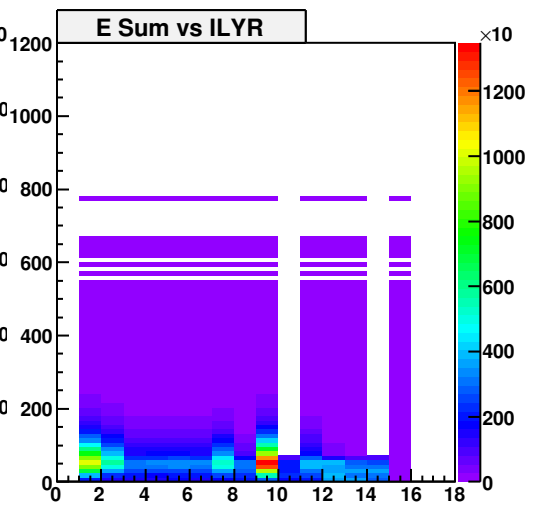



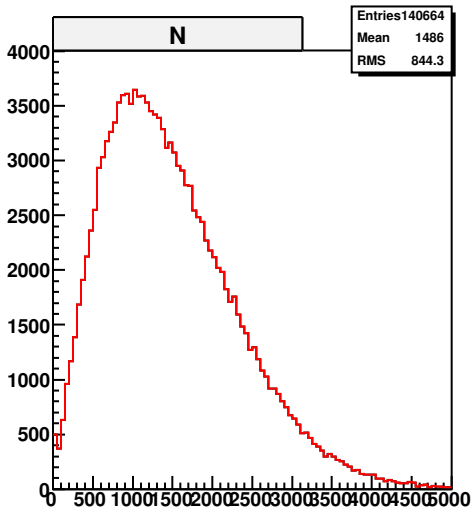



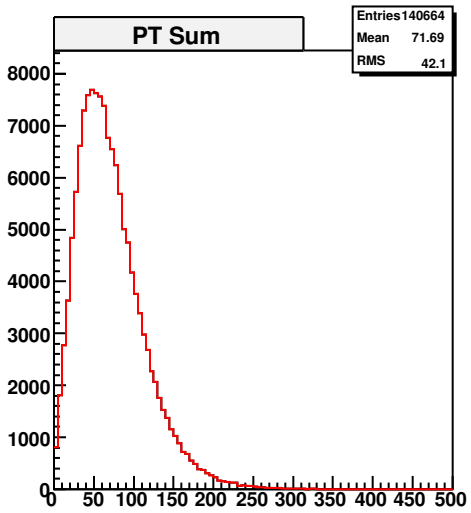



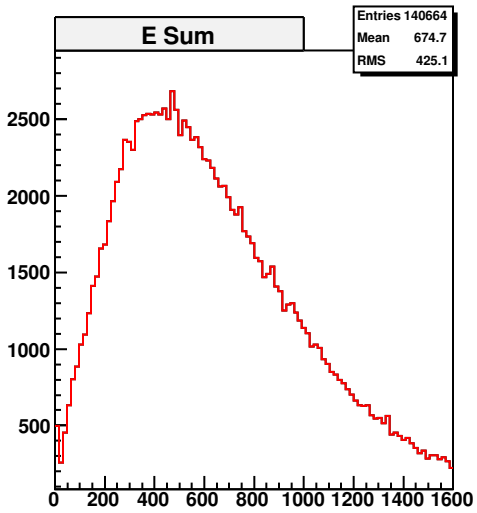



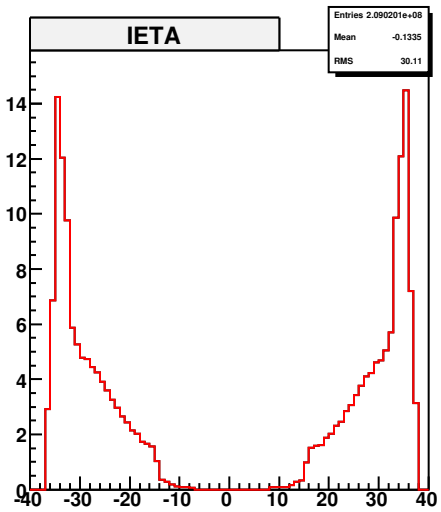



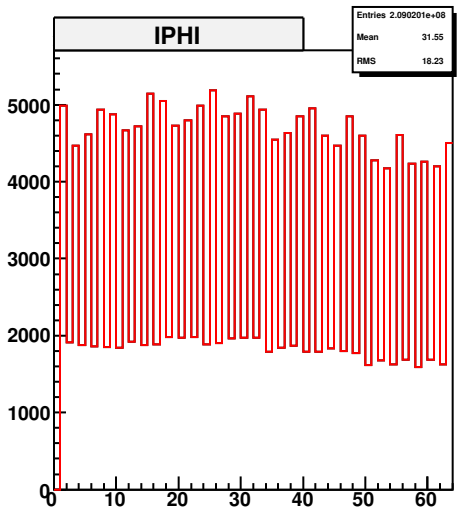

# Calorimeter (All CC cells)

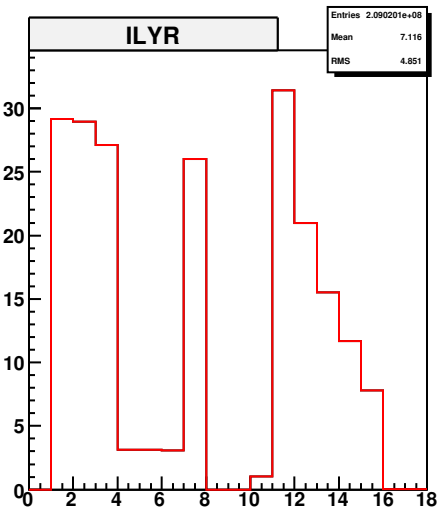


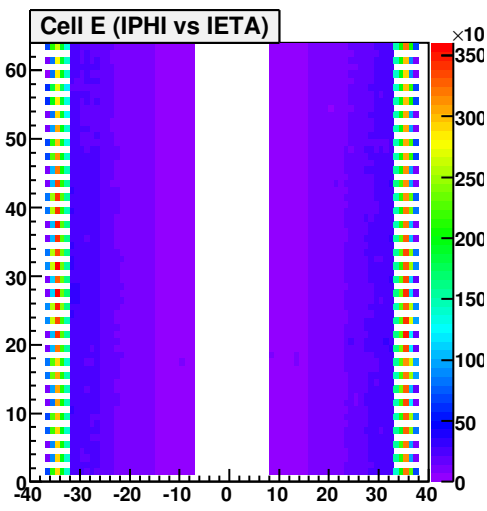



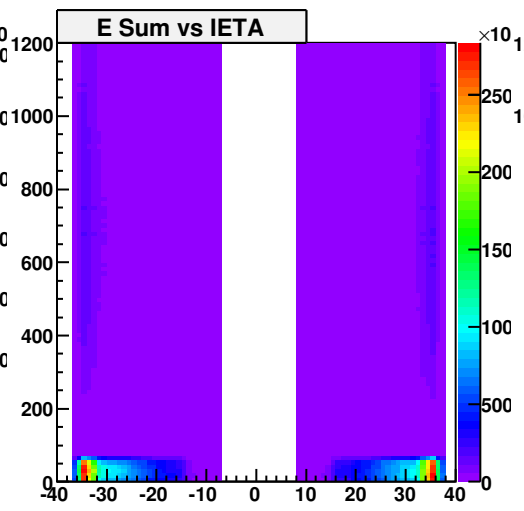



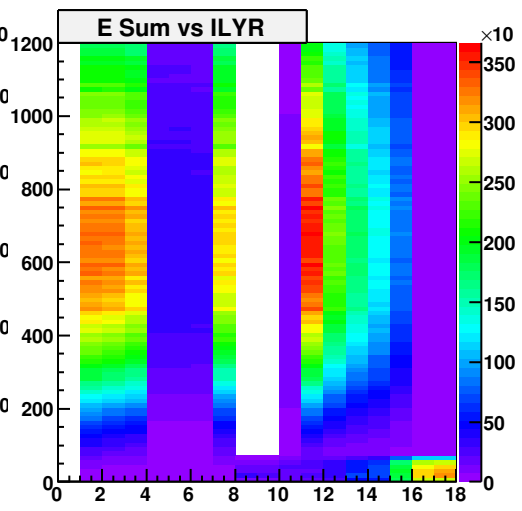



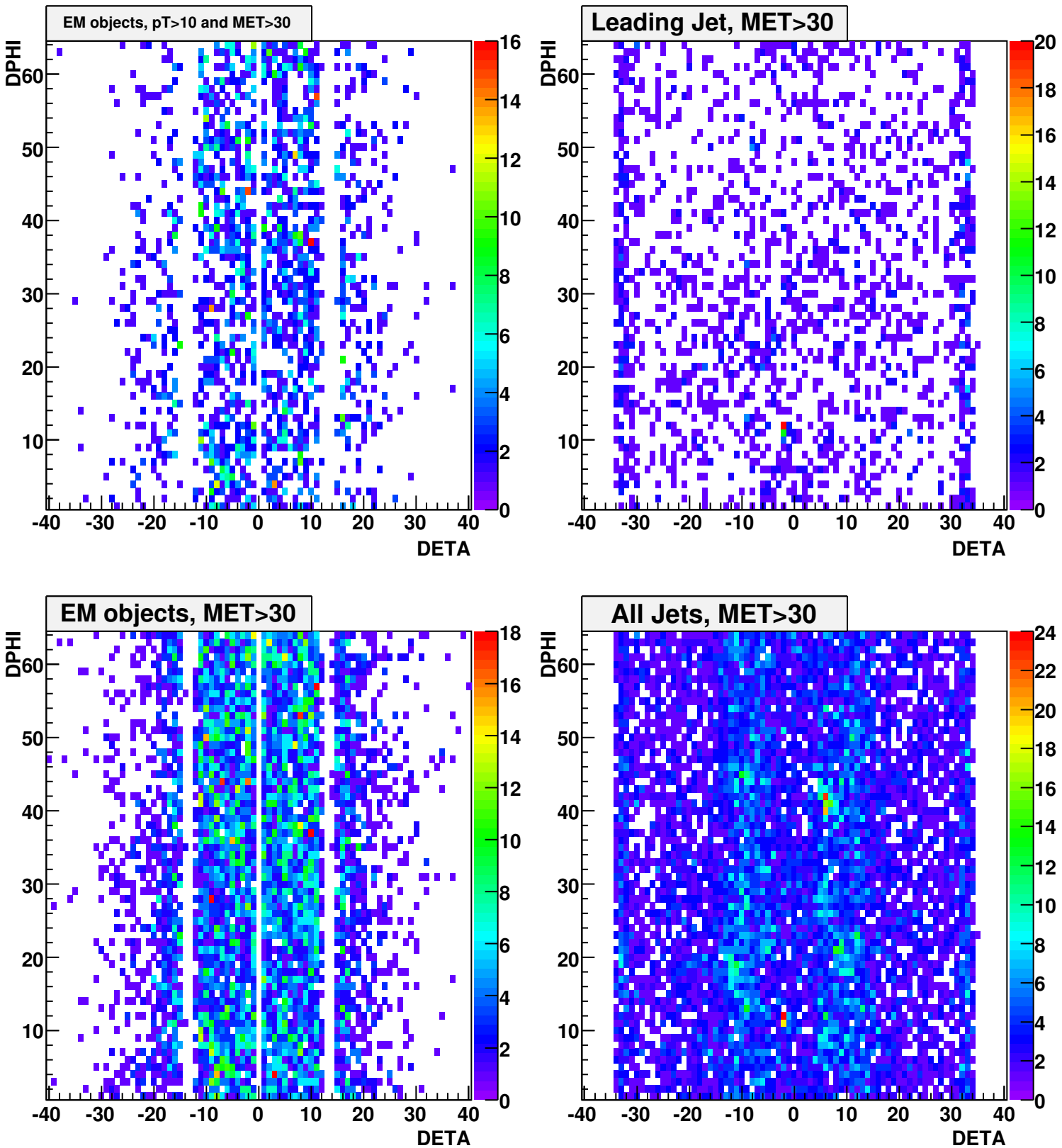



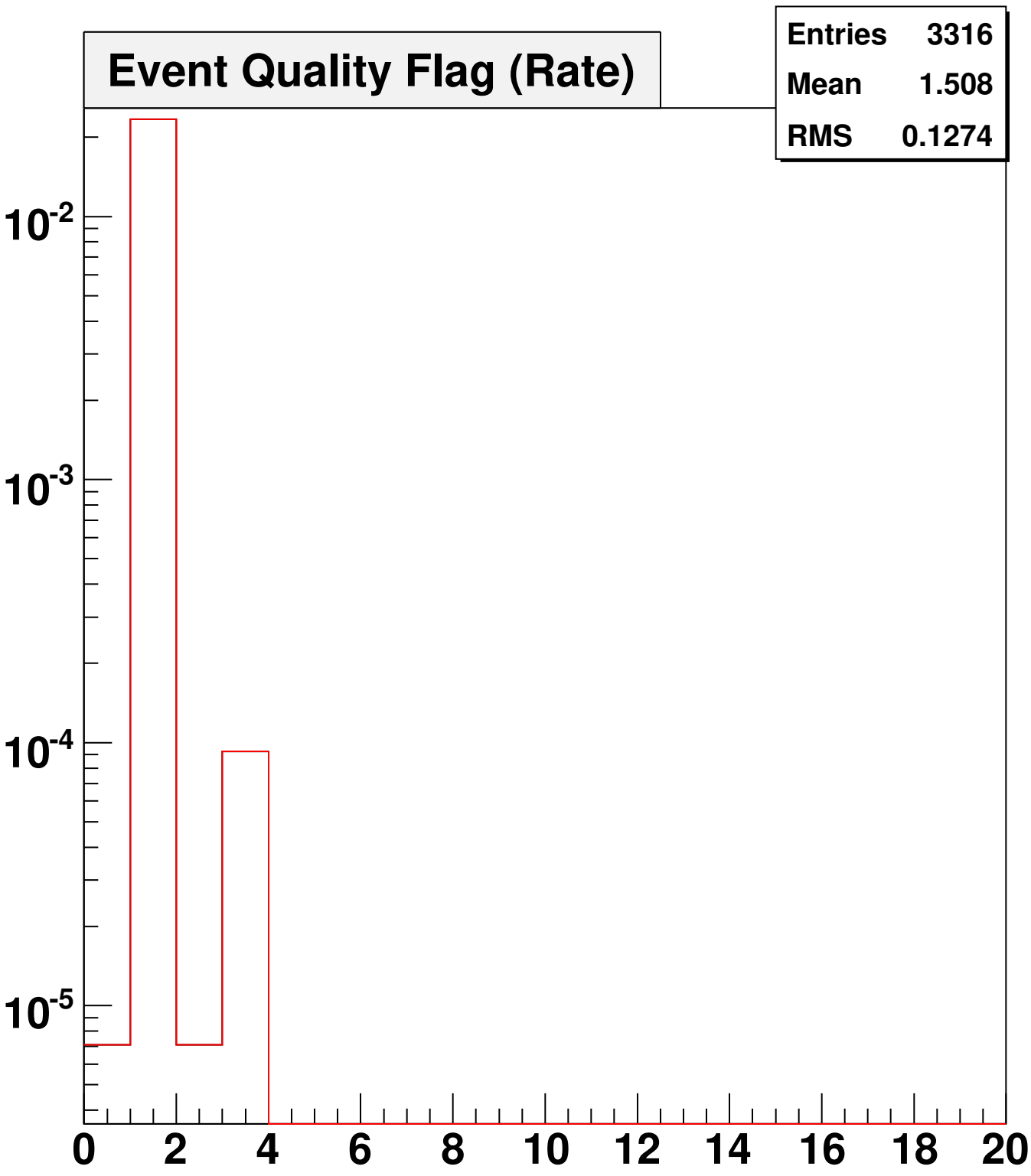



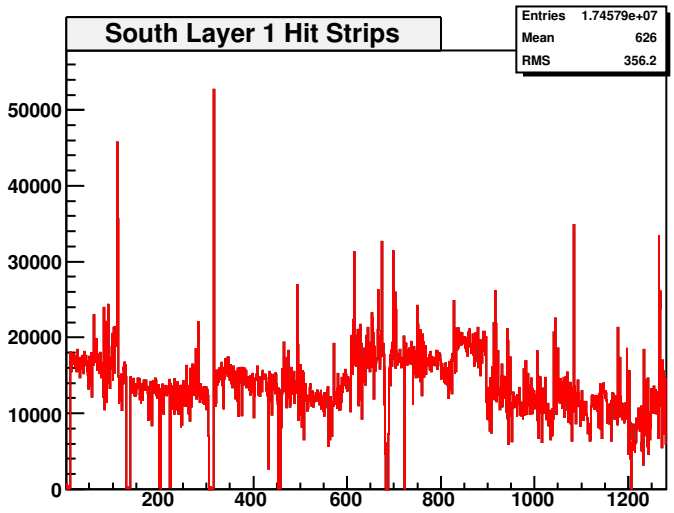



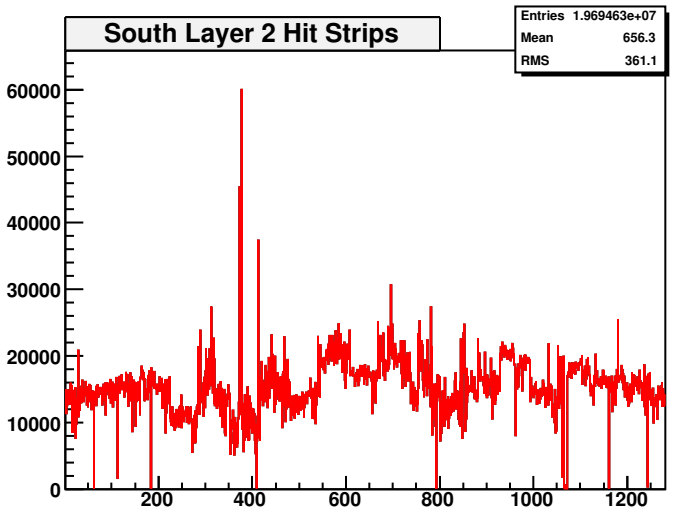

**Calorimeter (All EC cells)**

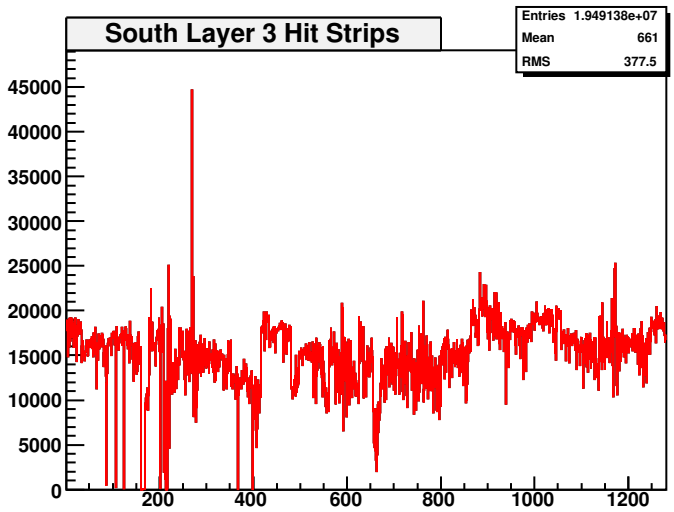


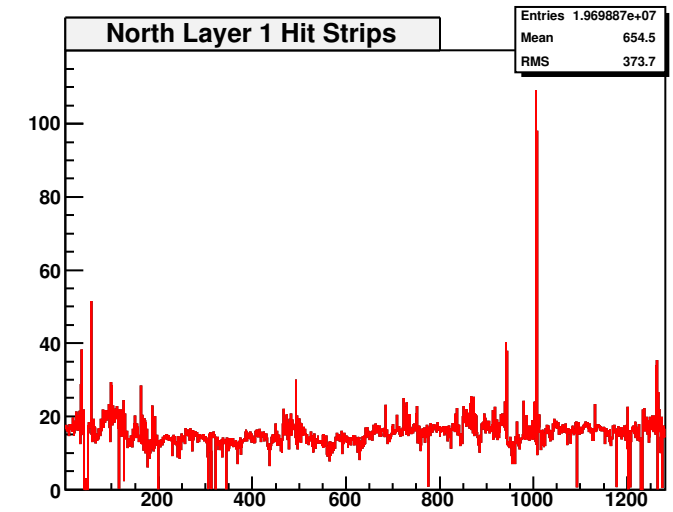

**Cal Objects with MET>30 (All cells)**

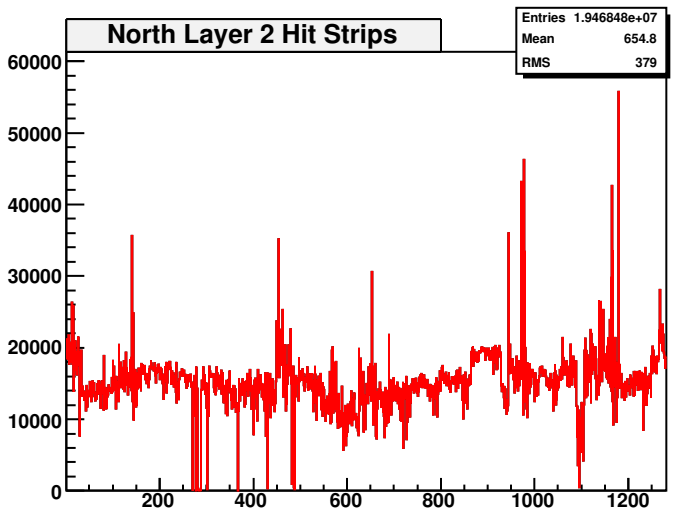

Event Quality Flag (Rate)
Entries 3316
Mean 1.508
RMS 0.1274
10-2
10-3
10-4
10-5
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

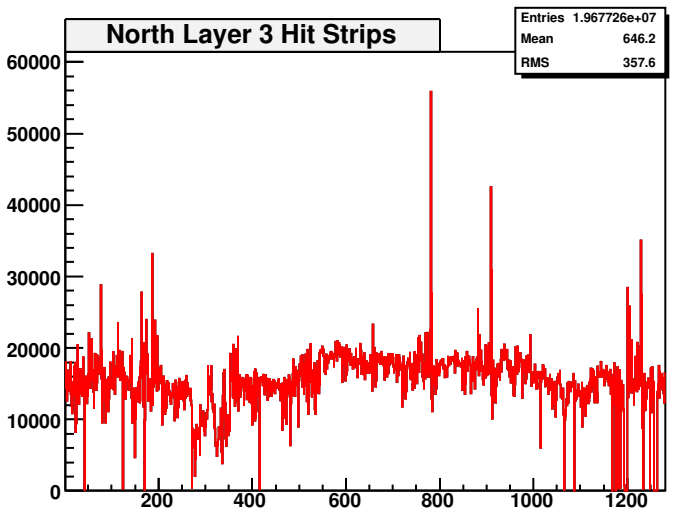


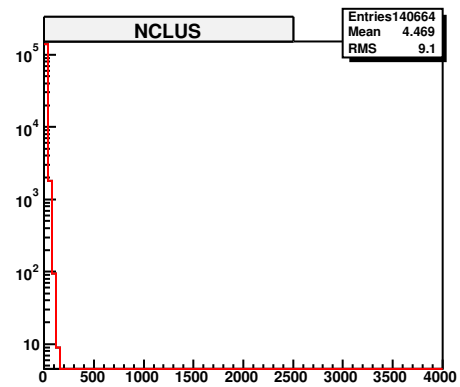



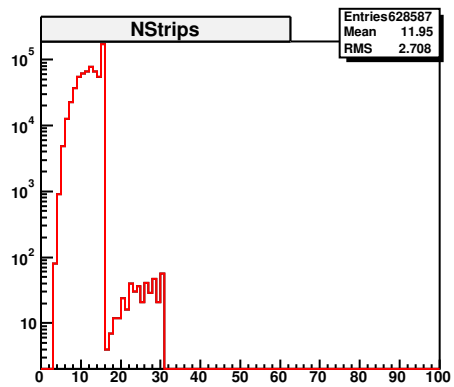



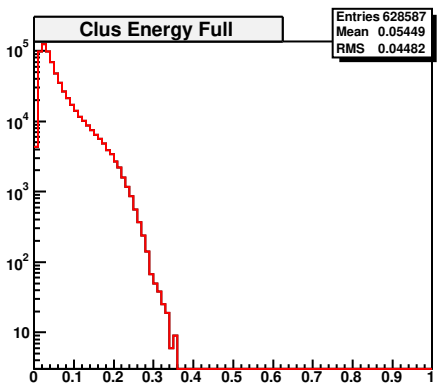



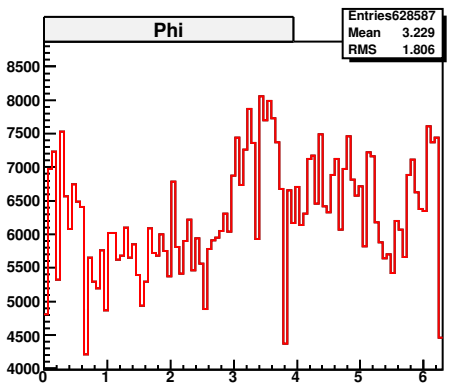



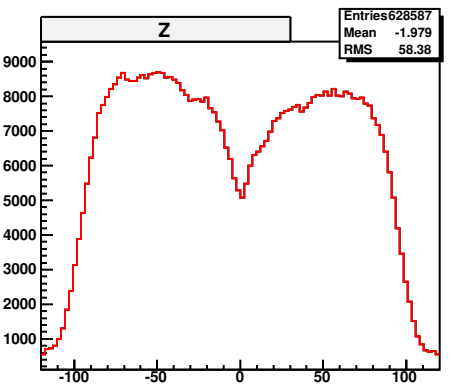

# CPS Hit Strips (All Clusters)

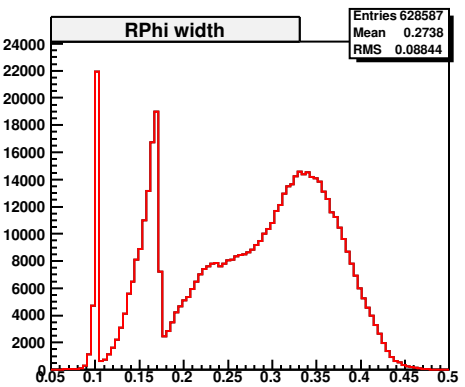


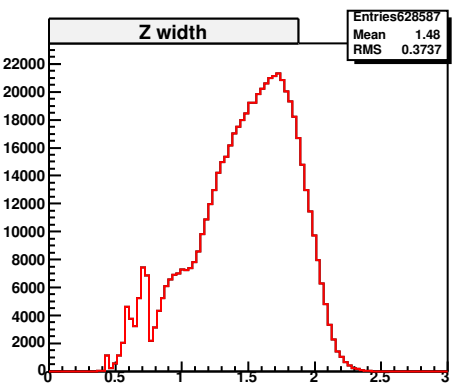



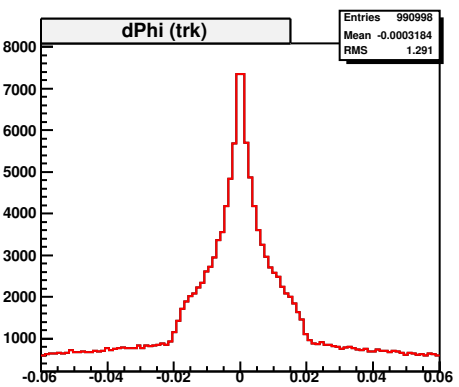



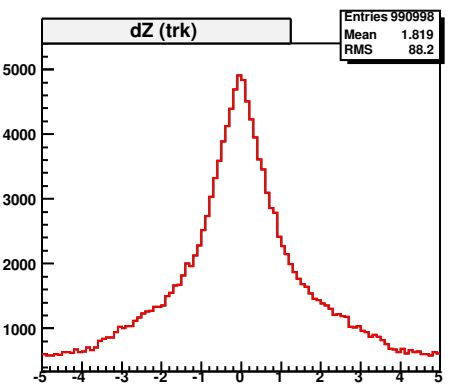



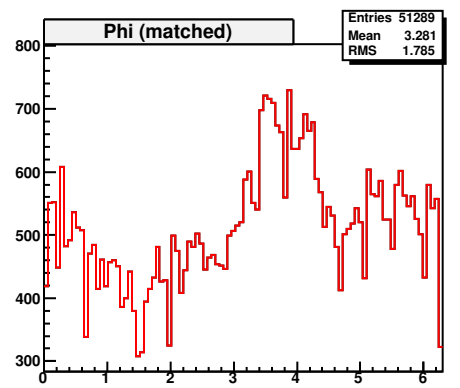



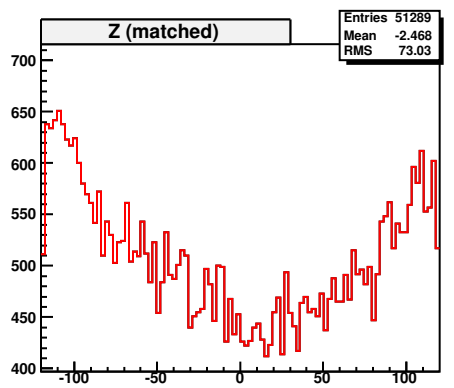



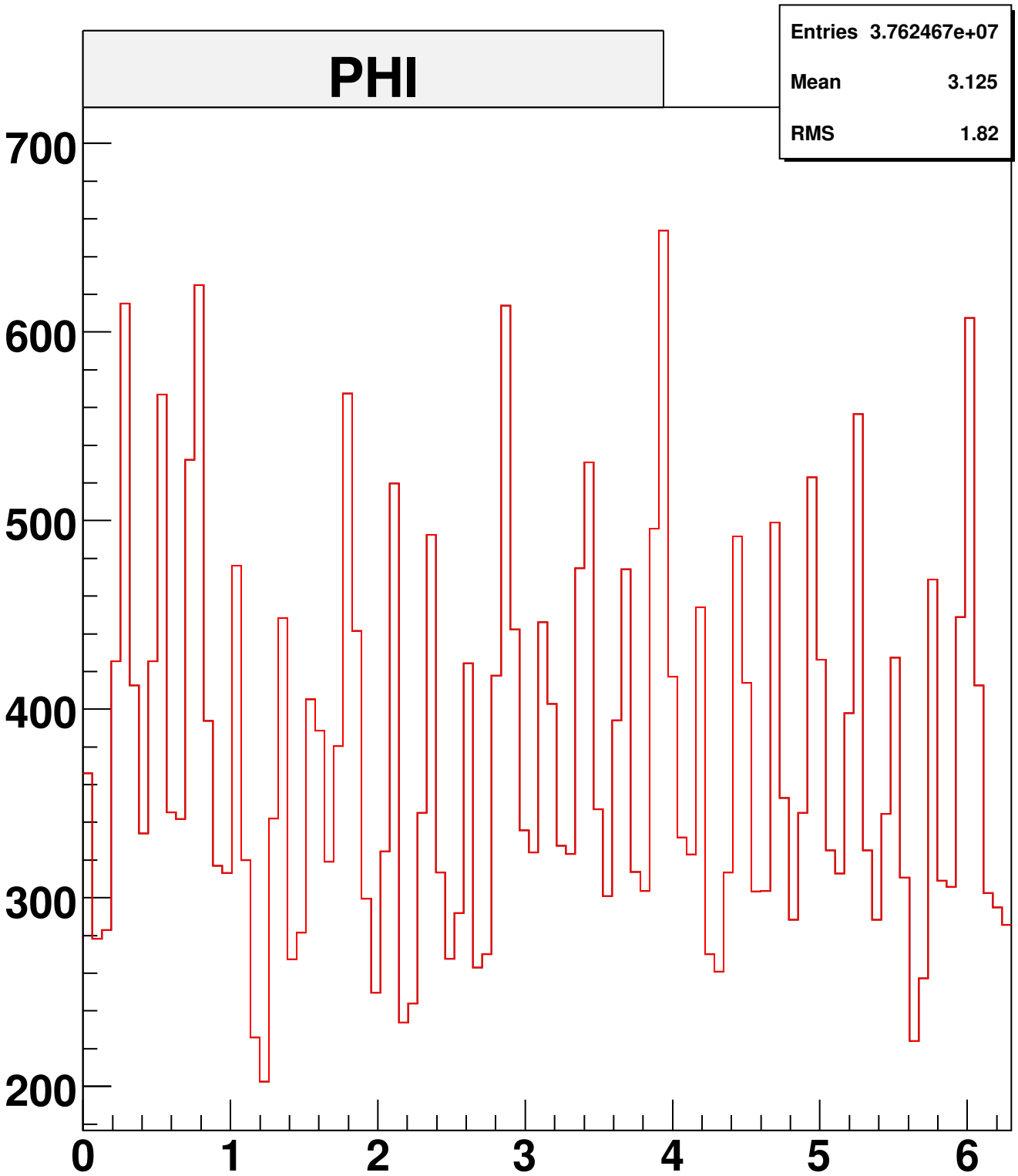



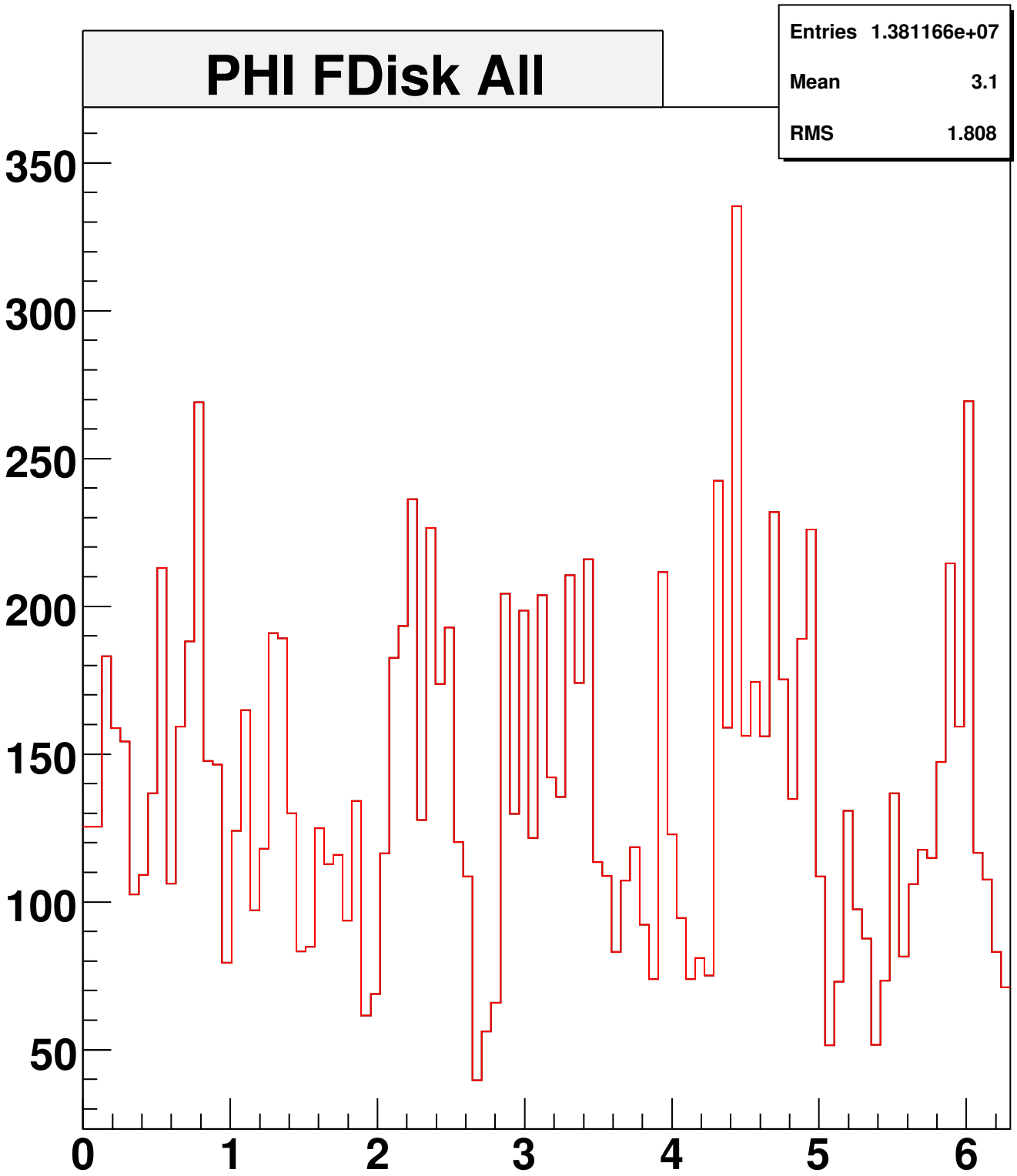



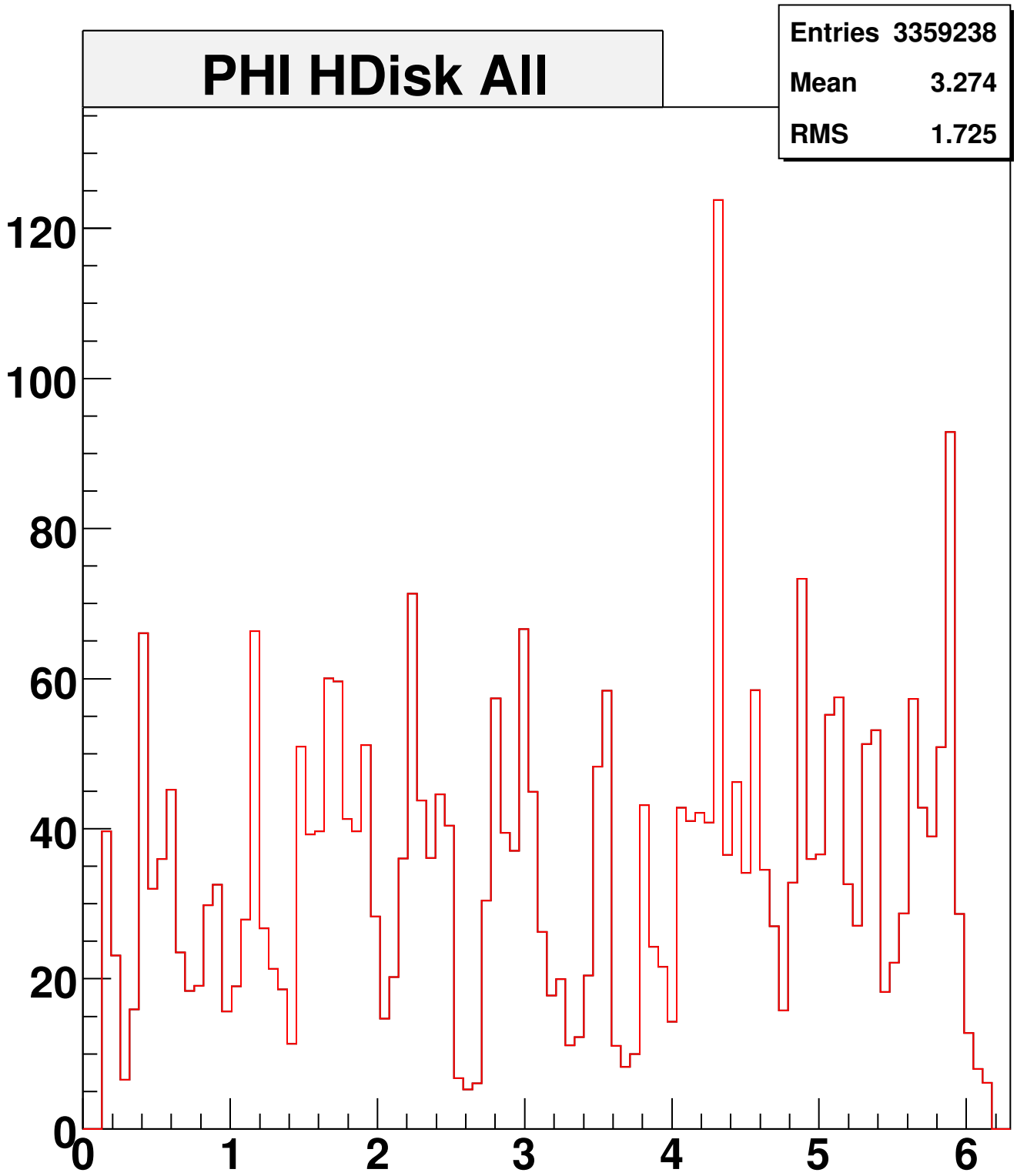



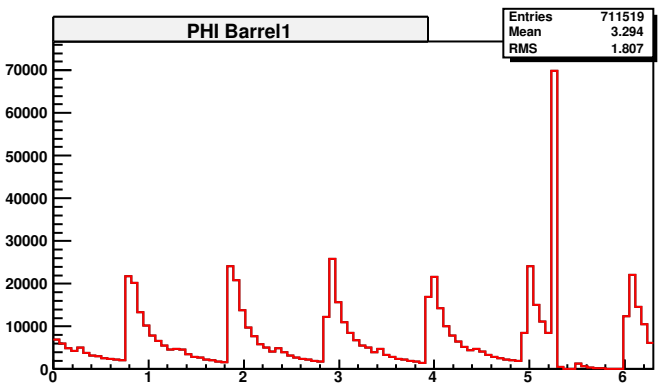



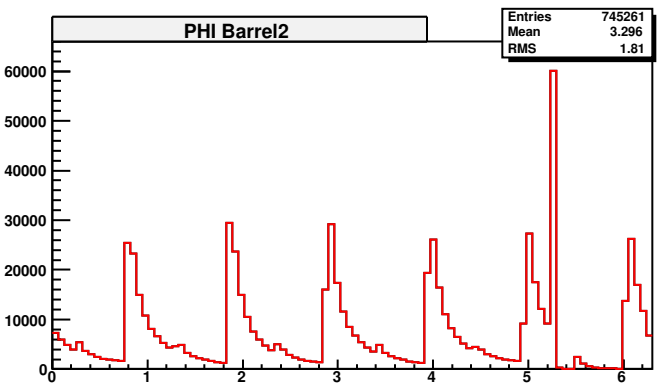

# CPS Clusters (All Clusters)

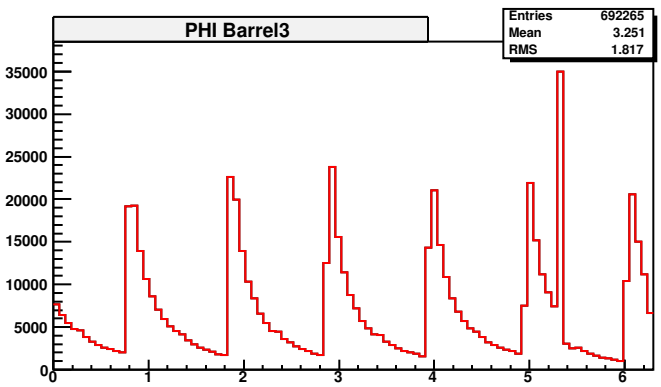

PHI
Entries 3.762467e+07
Mean 3.125
RMS 1.82
700
600
500
400
300
200
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

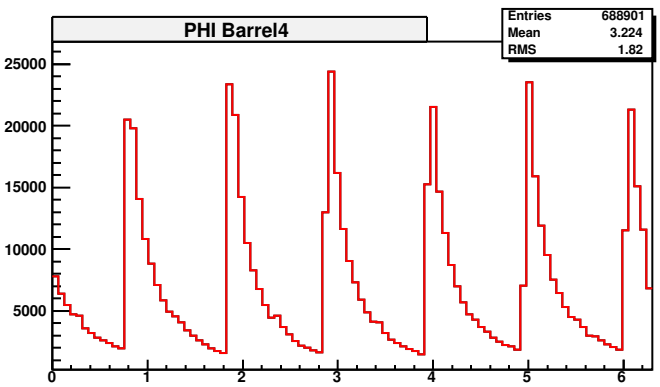

PHI FDisk All
Entries 1.381166e+07
Mean 3.1
RMS 1.808
350
300
250
200
150
100
50
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

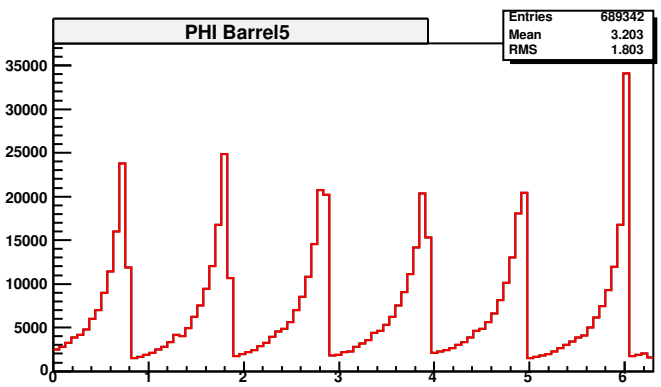

PHI HDisk All
Entries 3359238
Mean 3.274
RMS 1.725
120
100
80
60
40
20
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

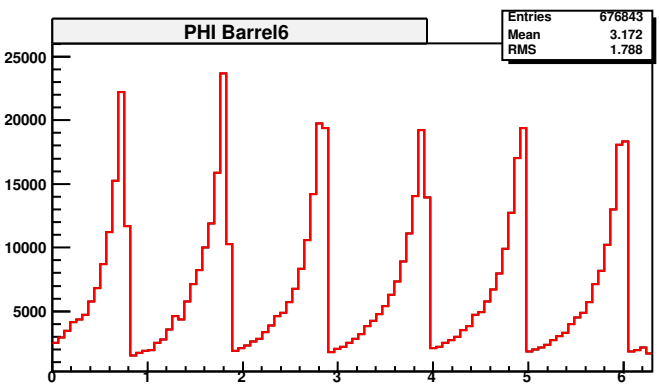


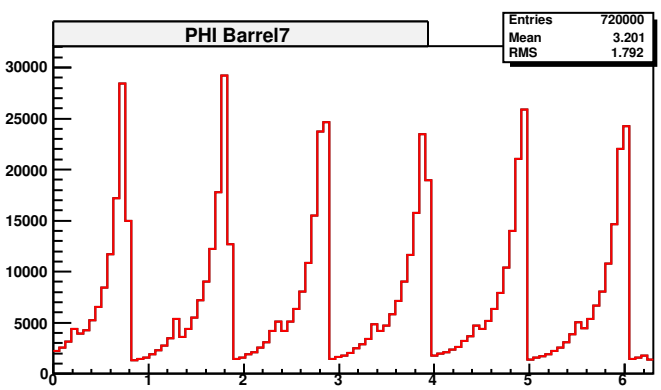



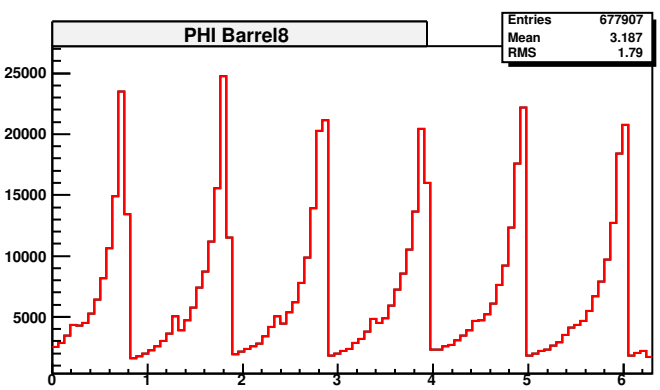



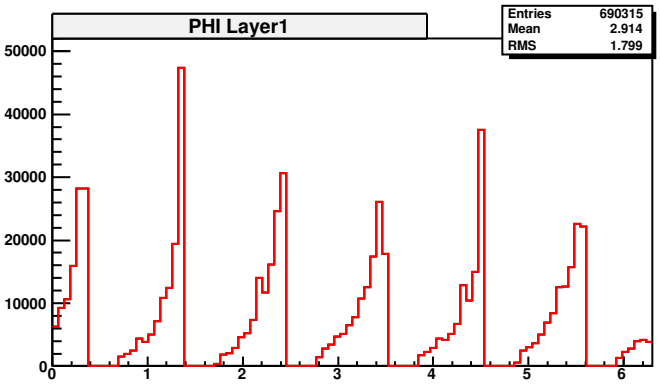



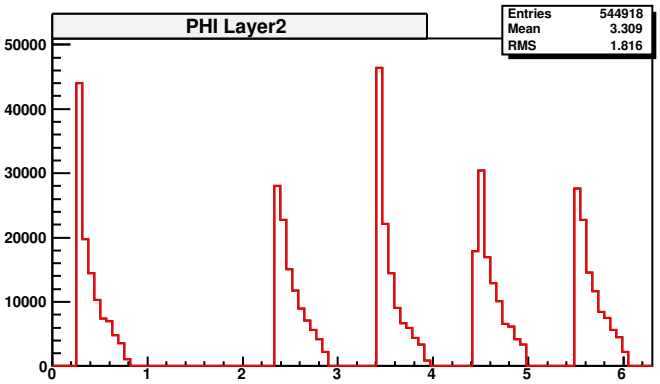



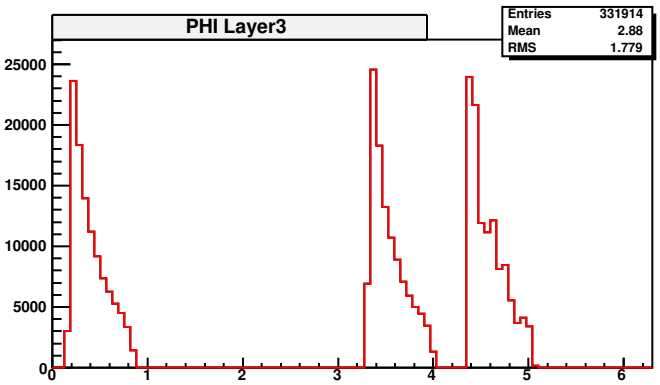



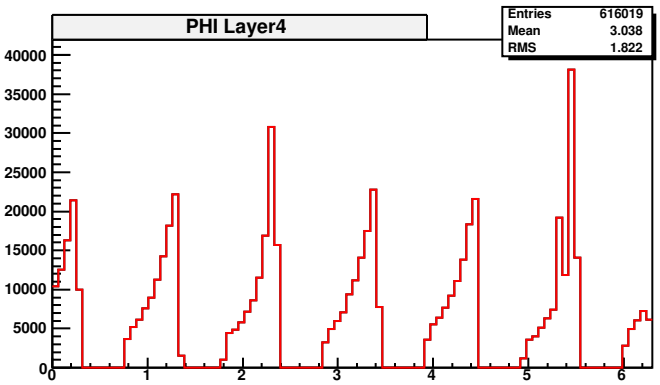



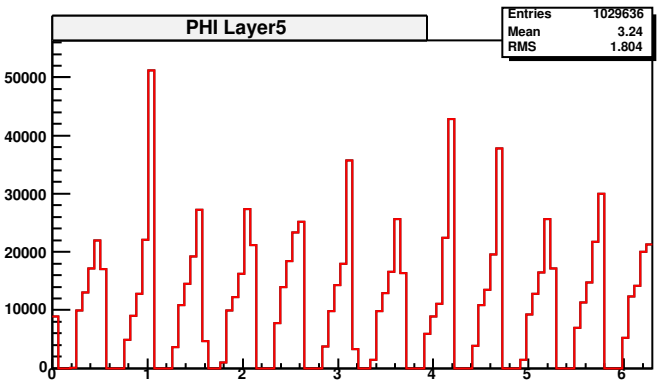

# SmtClusters (ClustrLayer0)

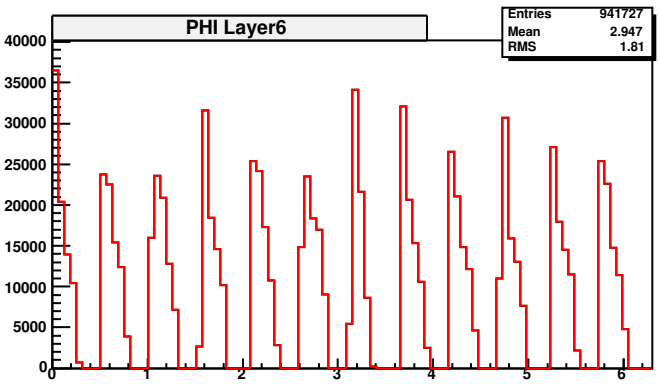


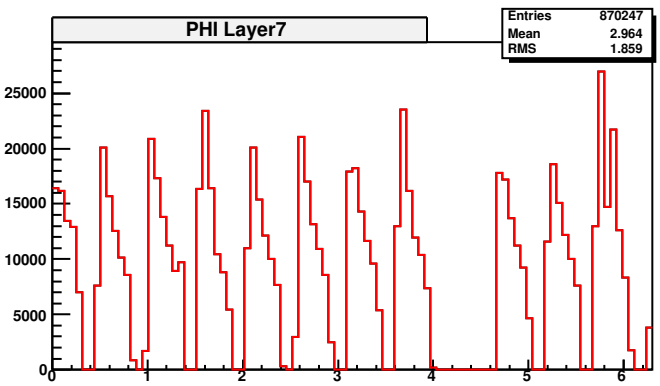



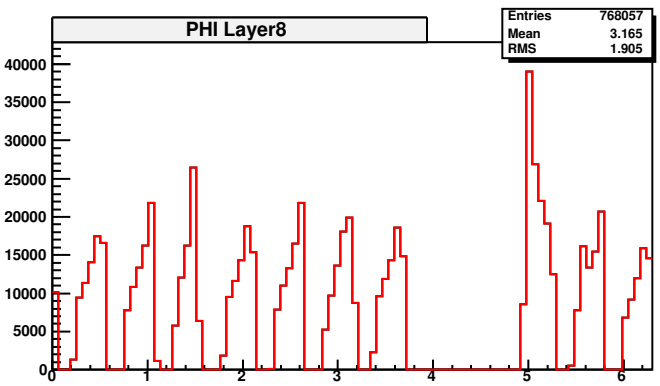



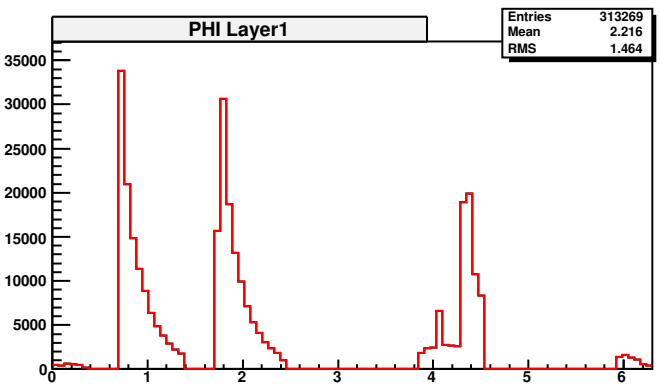



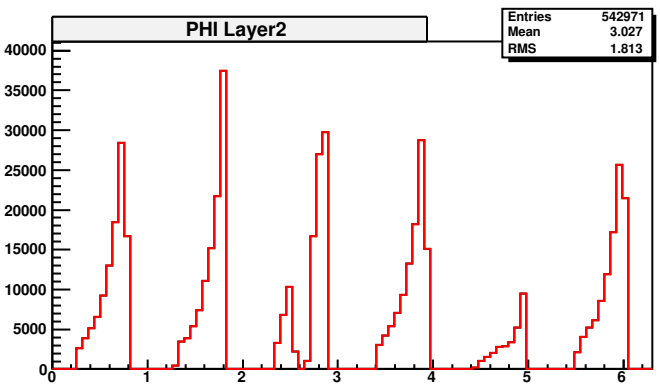



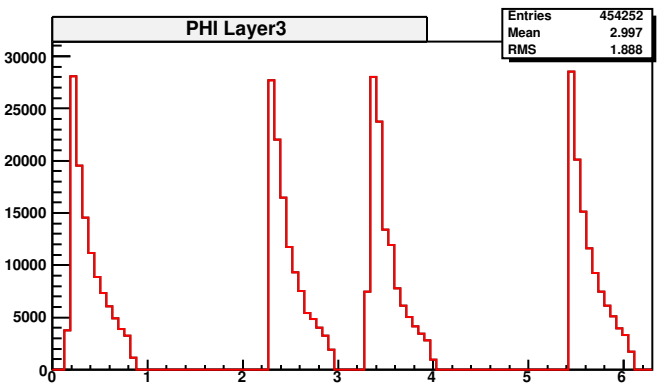



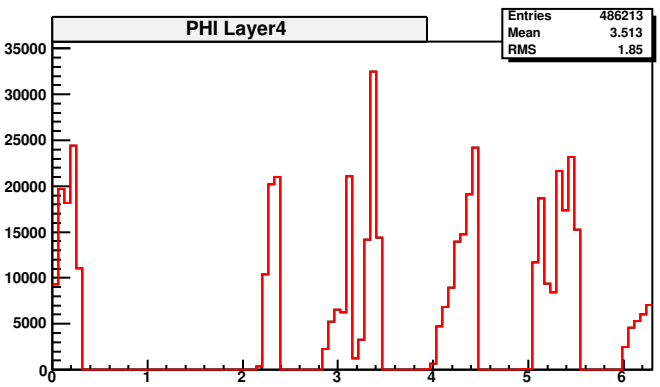



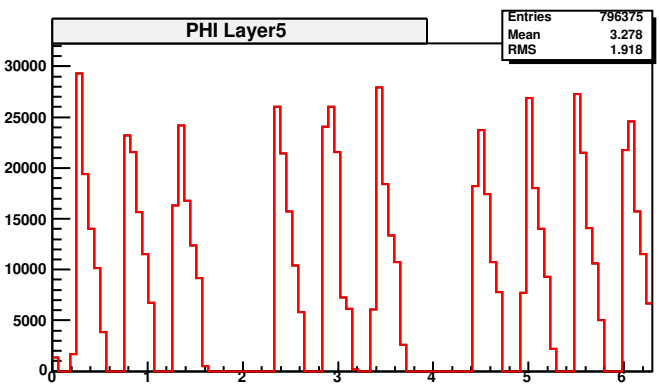

# SmtClusters (ClustrBar1)

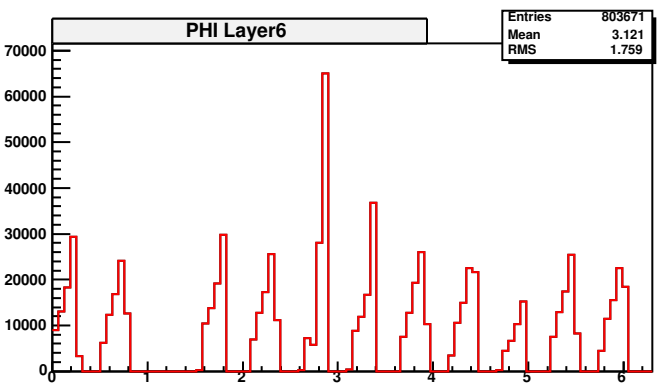


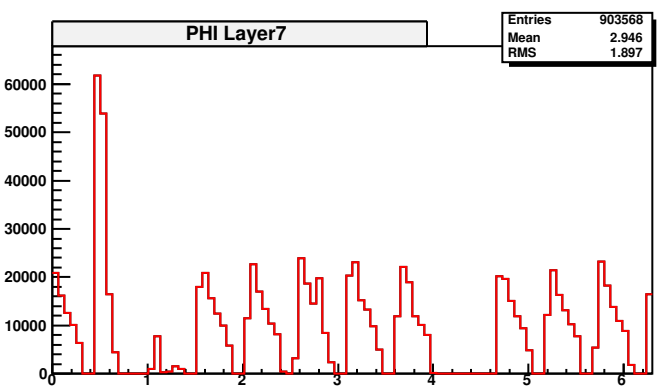



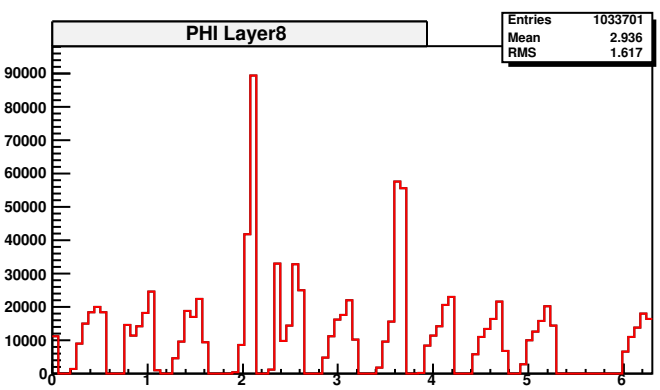



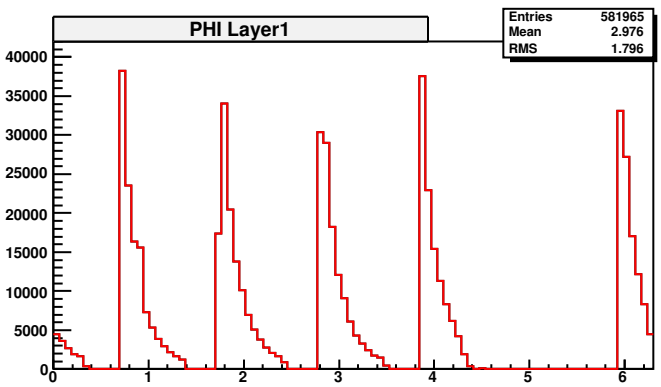



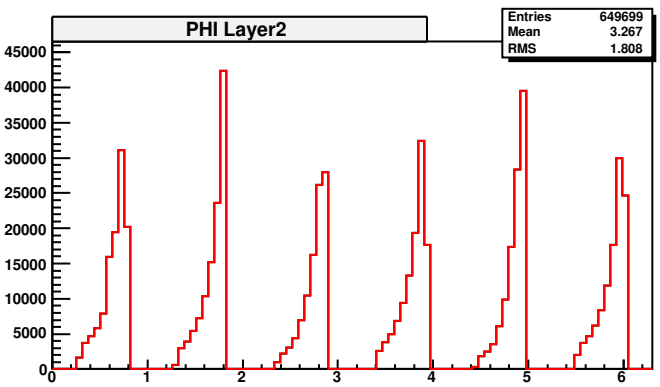



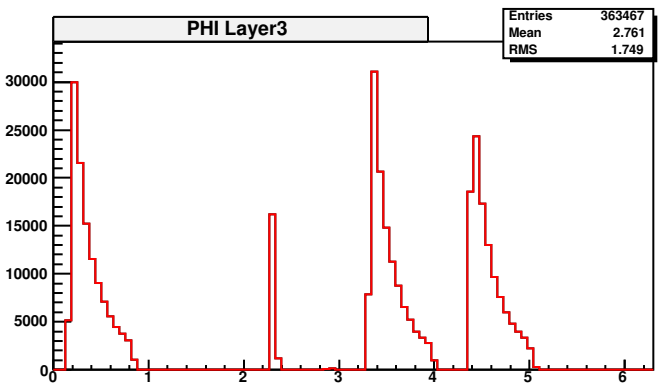



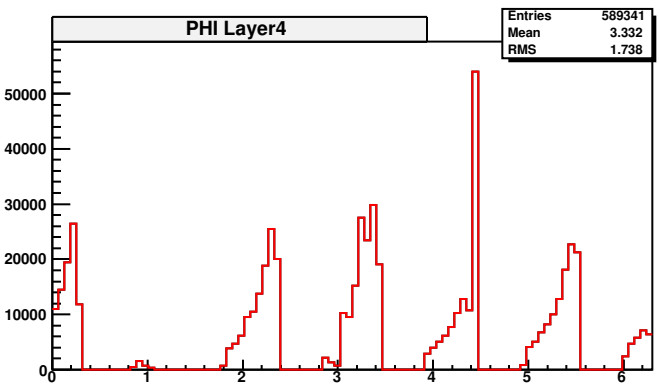



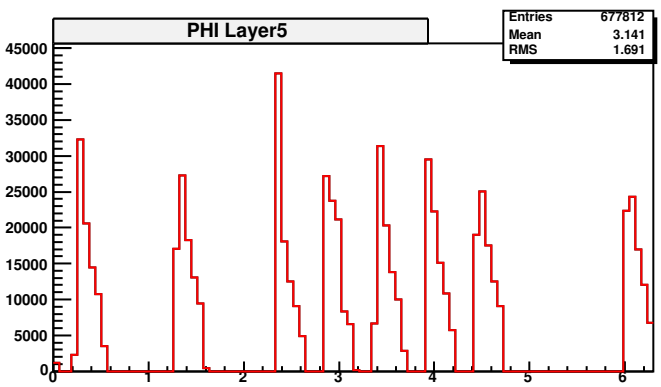

# SmtClusters (ClustrBar2)

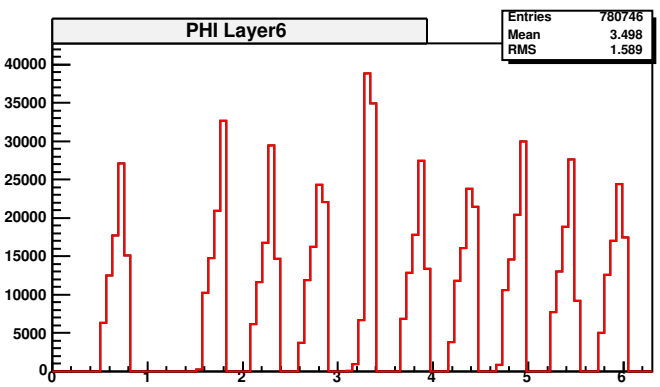


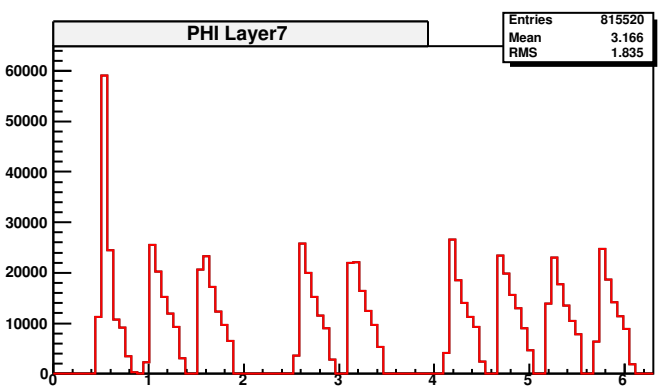



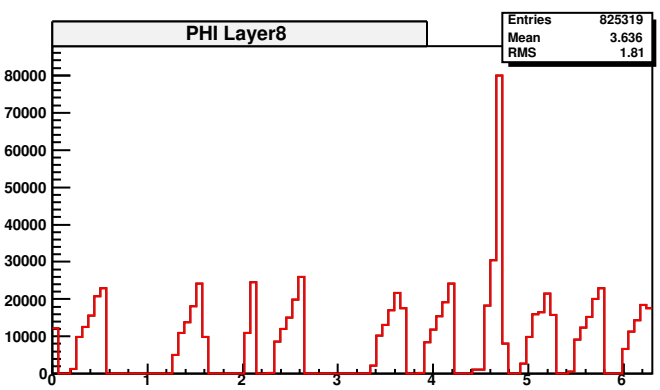



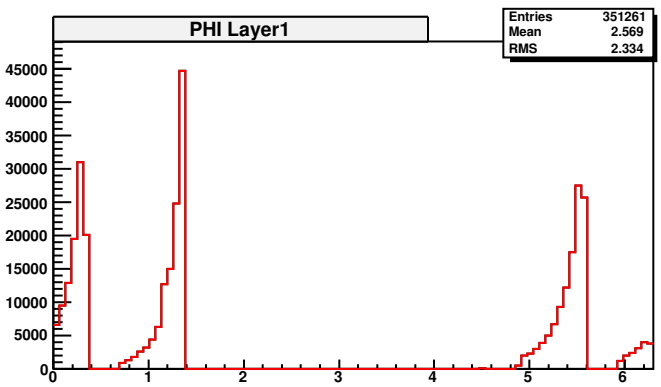



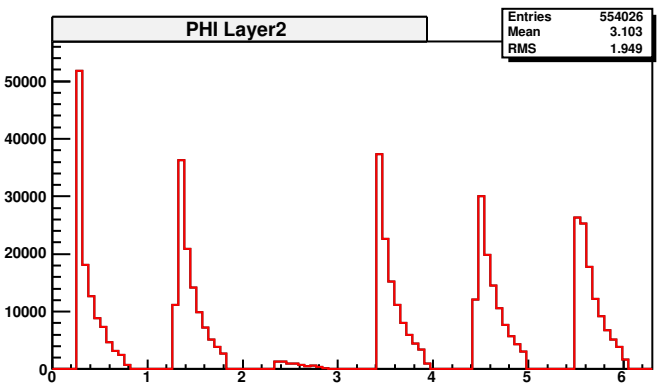



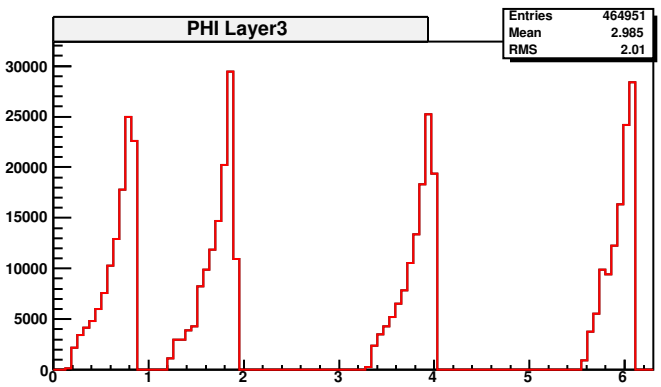



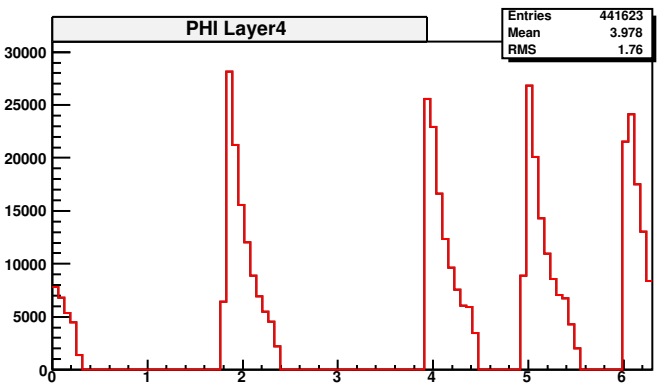



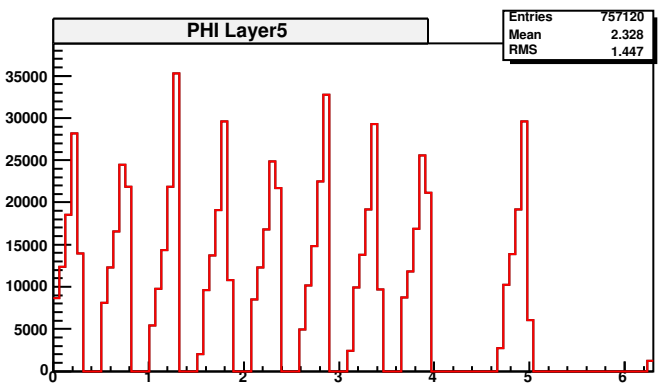

# SmtClusters (ClustrBar3)

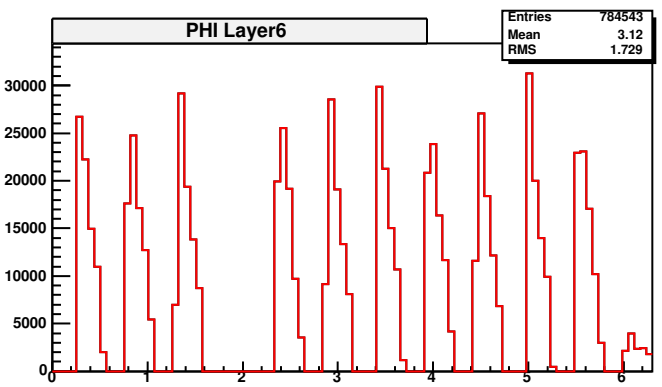


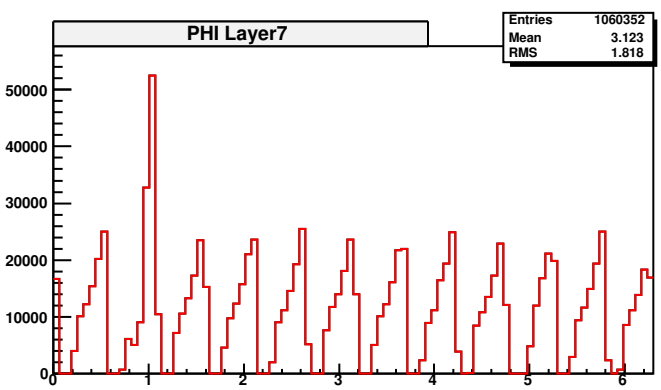



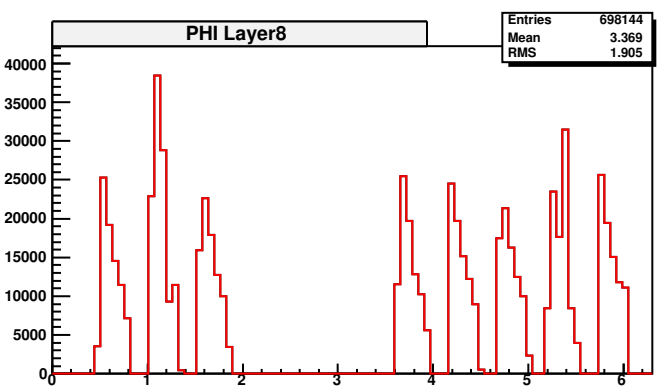



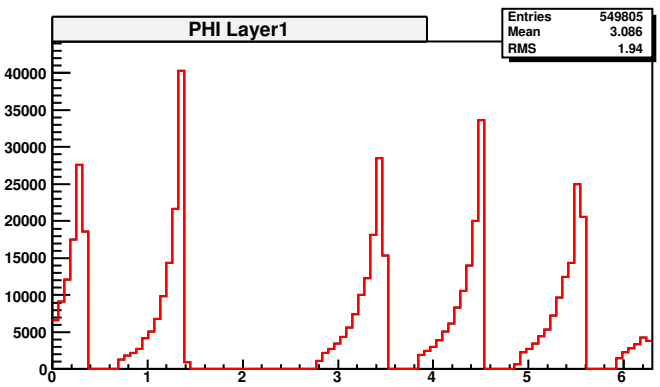



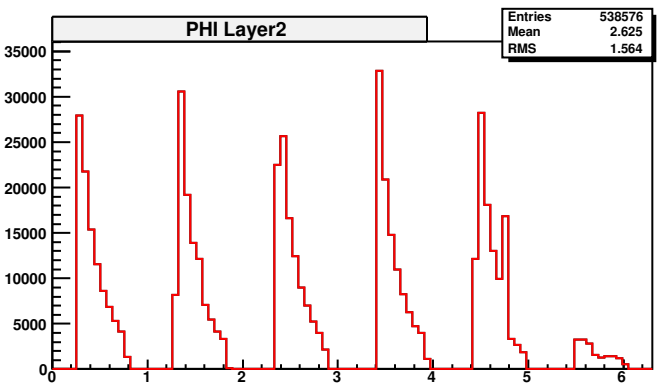



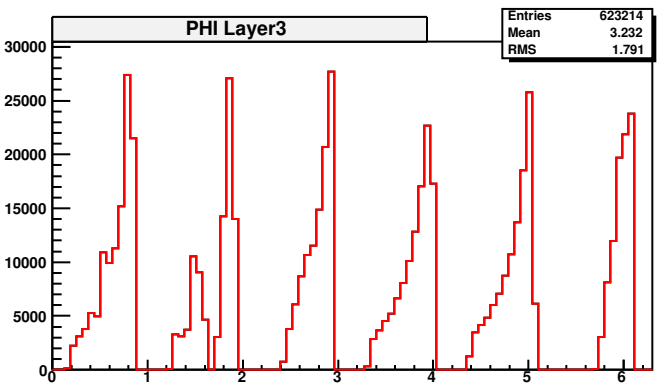



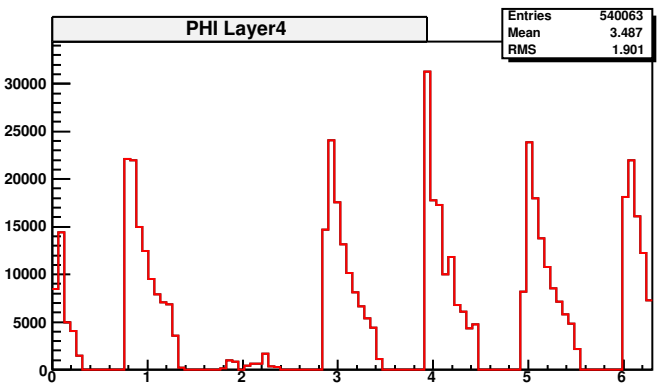



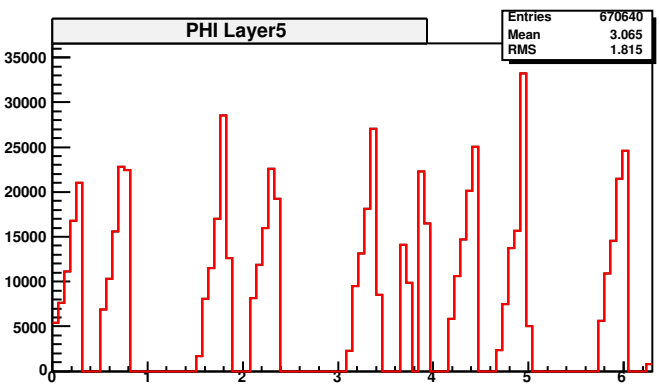

# SmtClusters (ClustrBar4)

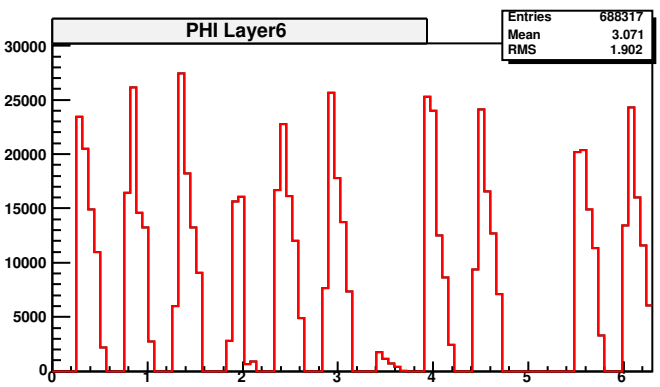


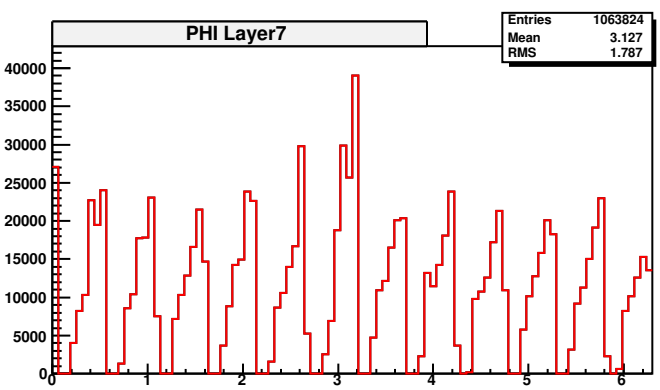



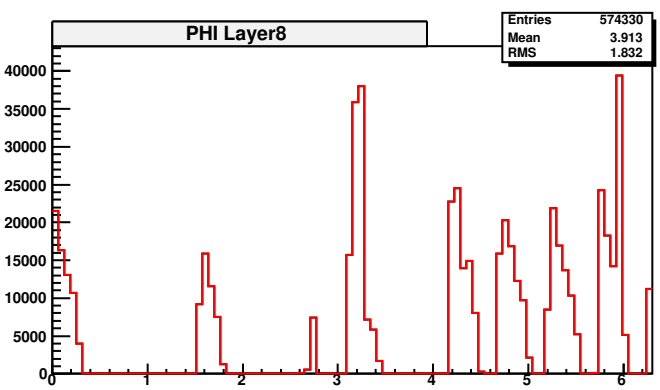



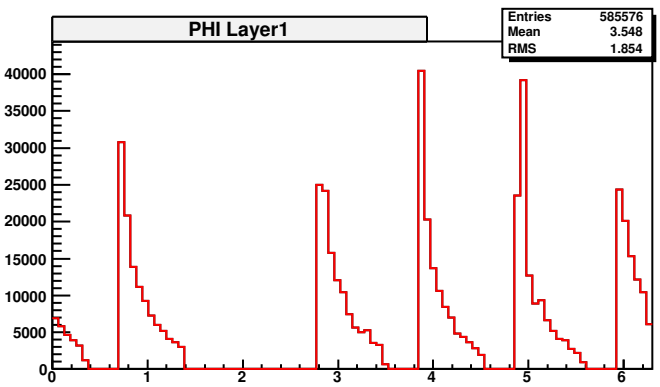



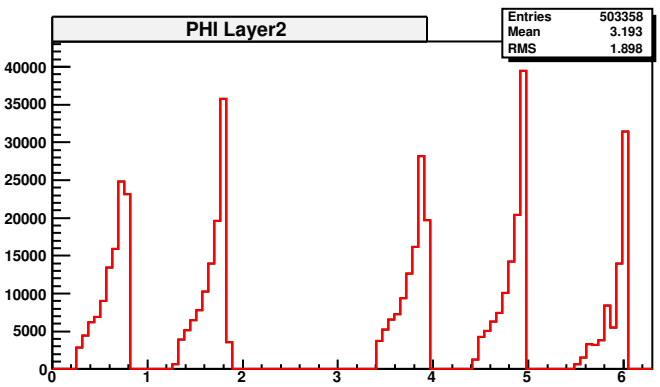



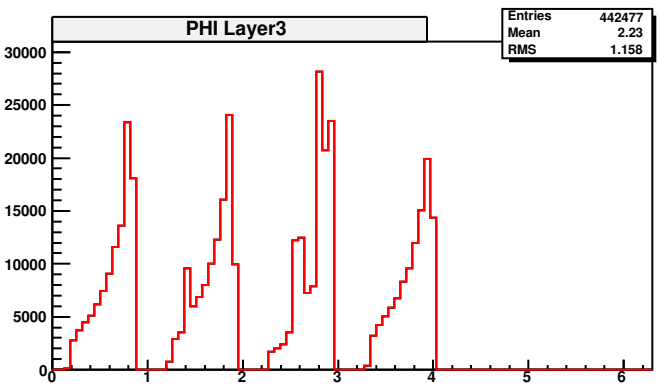



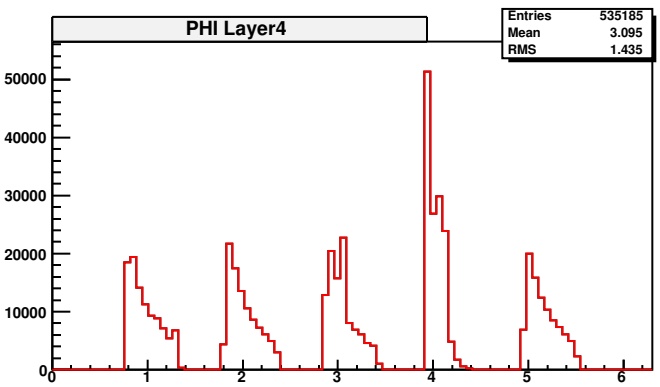



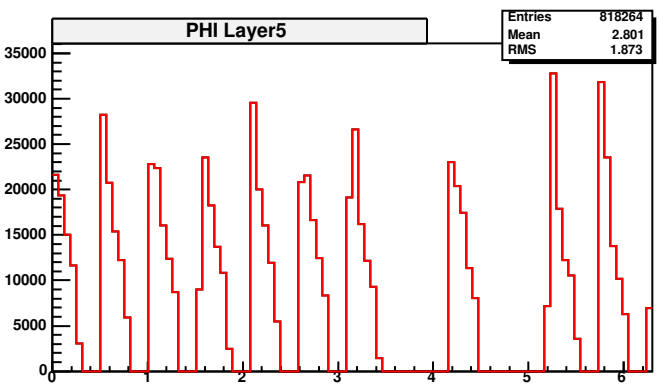

# SmtClusters (ClustrBar5)

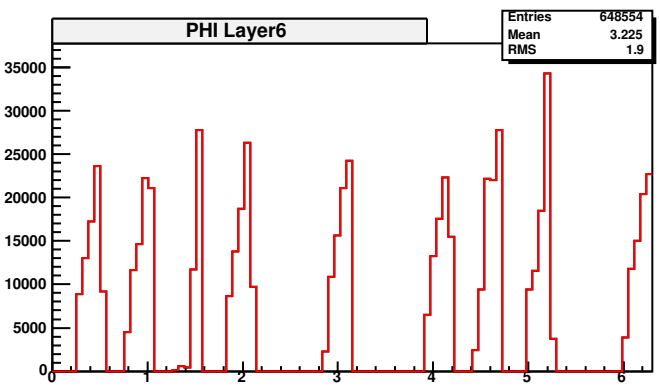


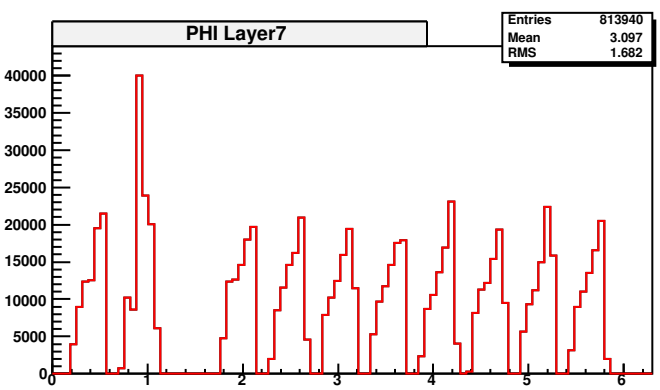



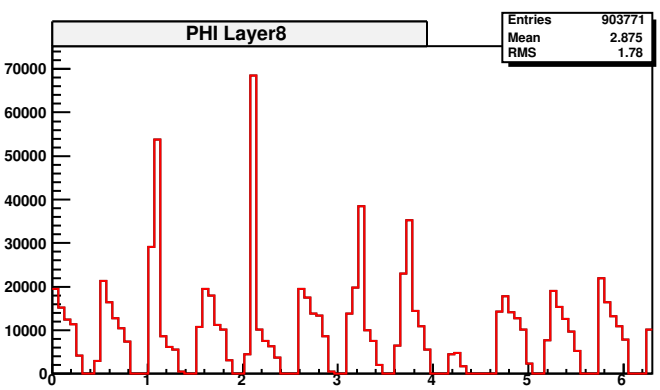



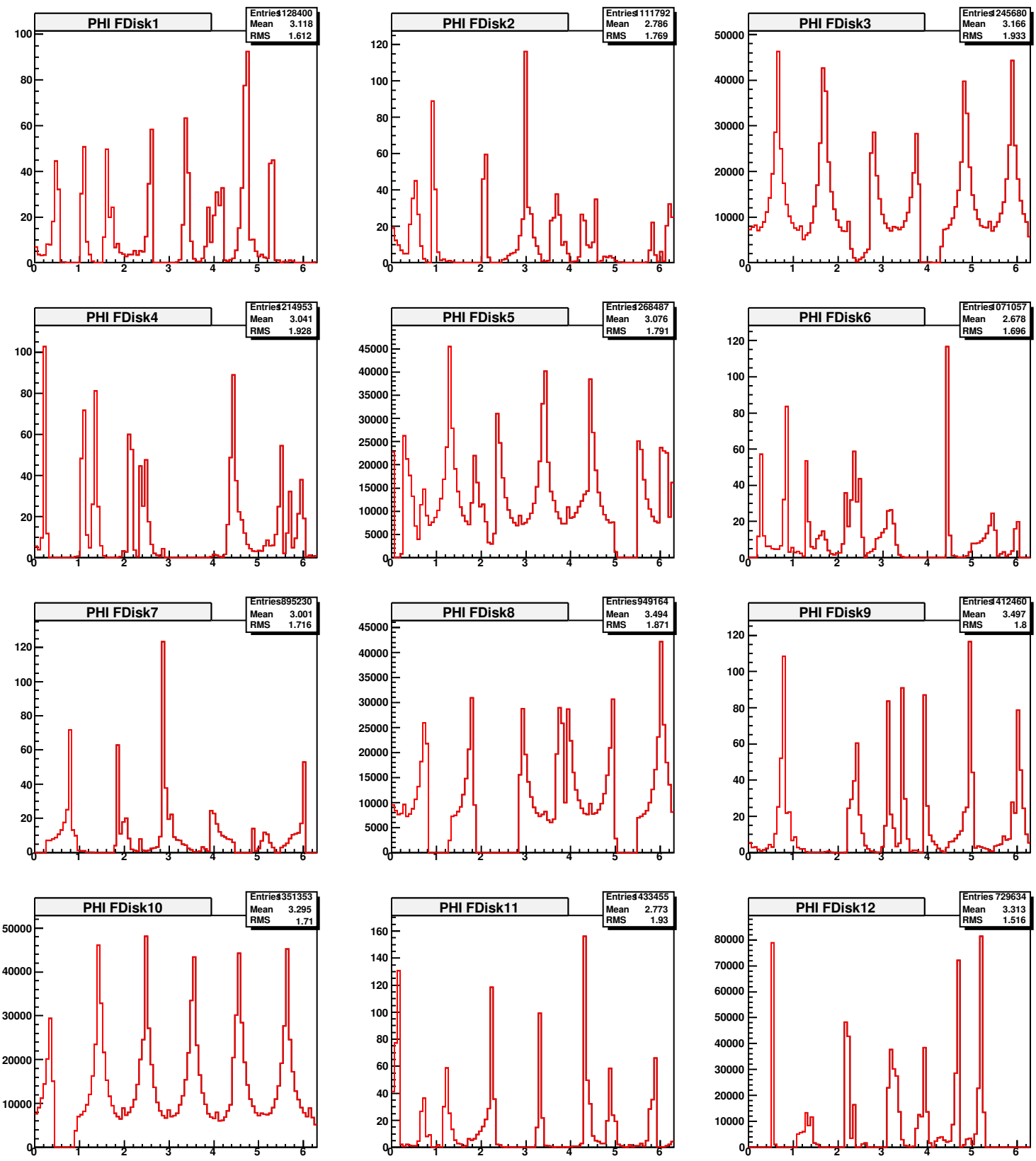



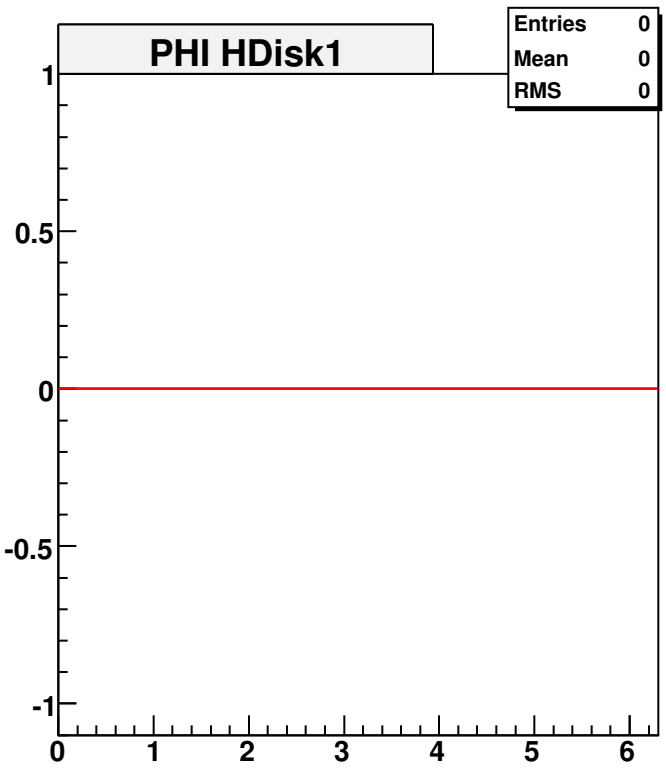



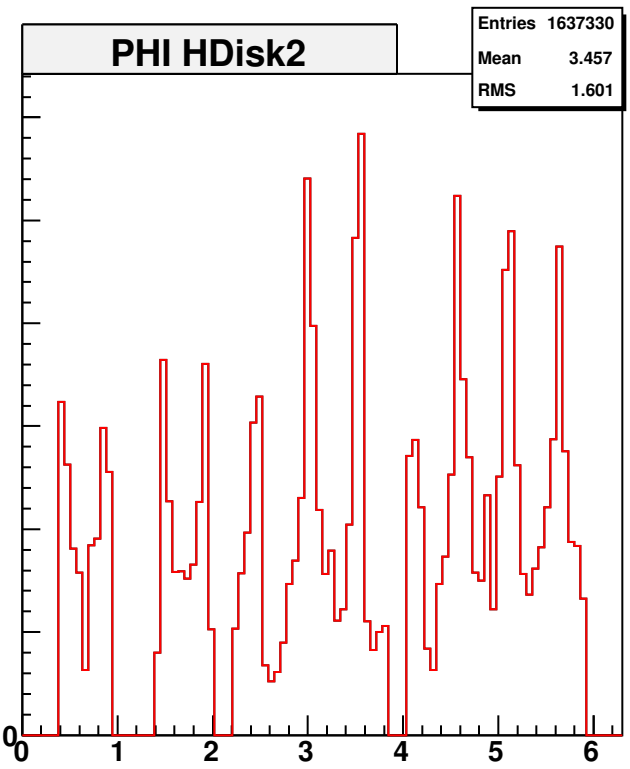



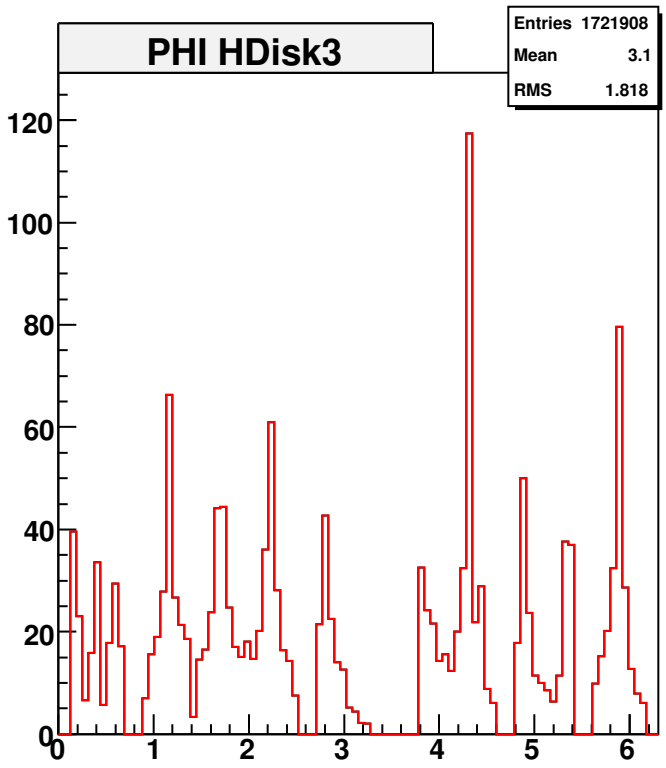

# SmtClusters (ClustrBar6)

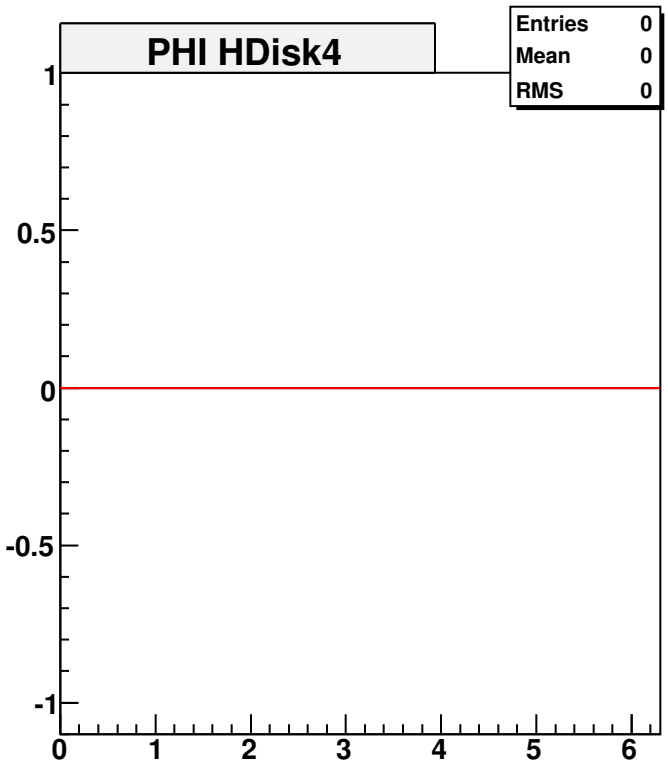



# SmtClusters (FDiskClusters)

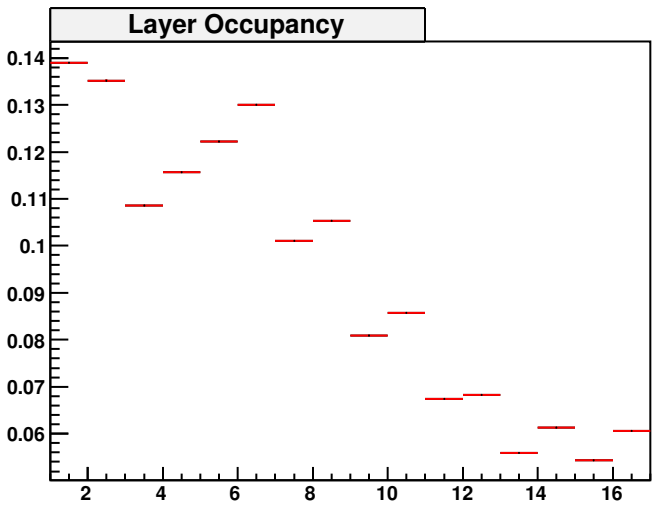


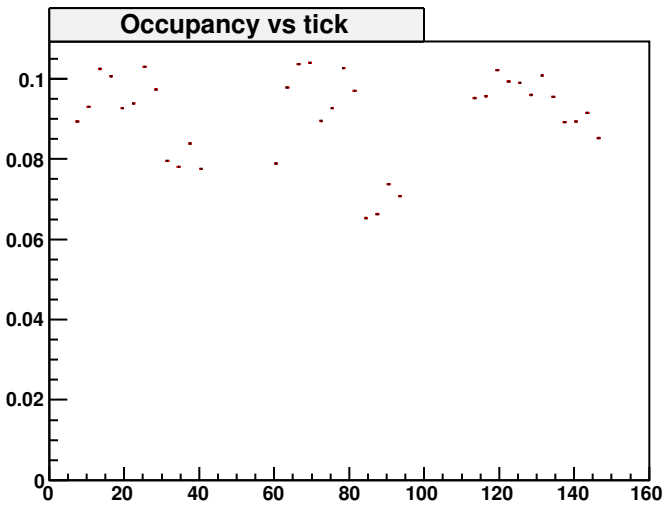



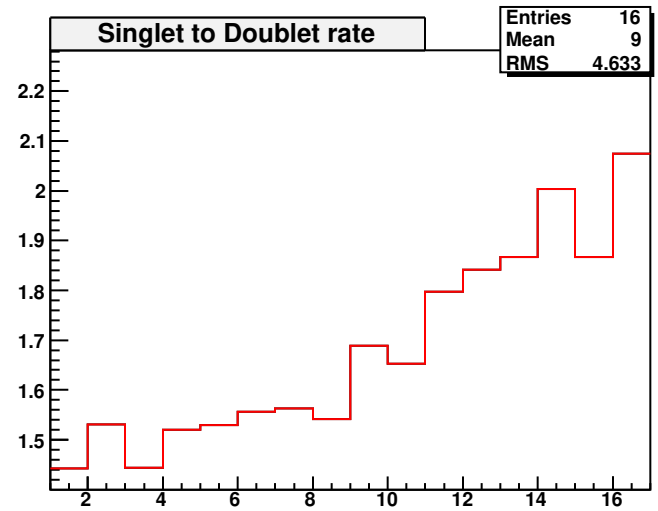



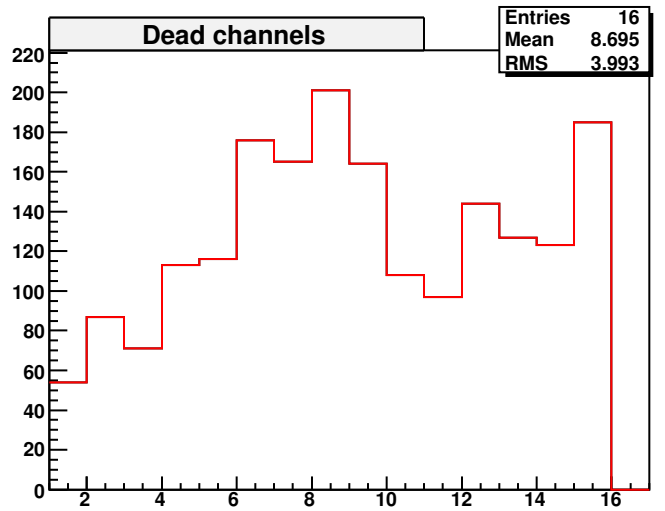



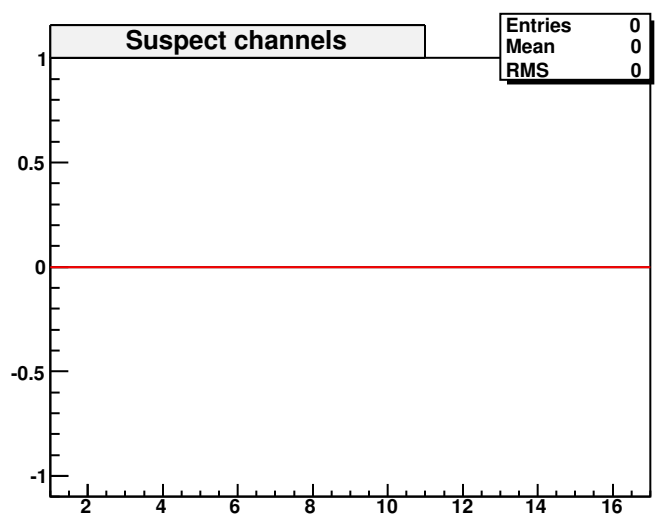

**SmtClusters (HDiskClusters)**

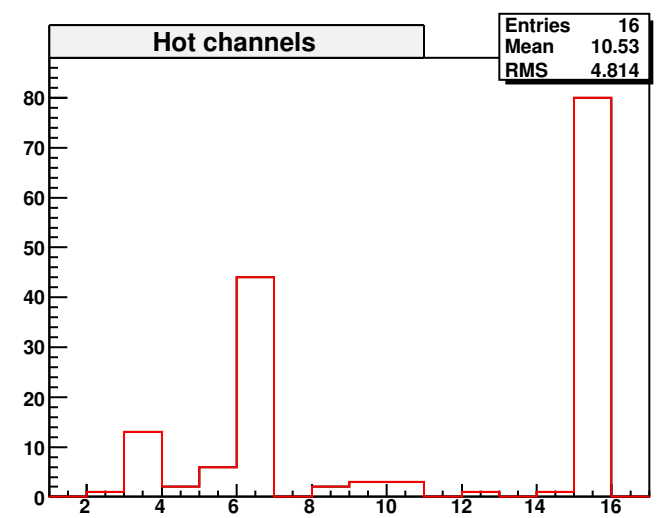


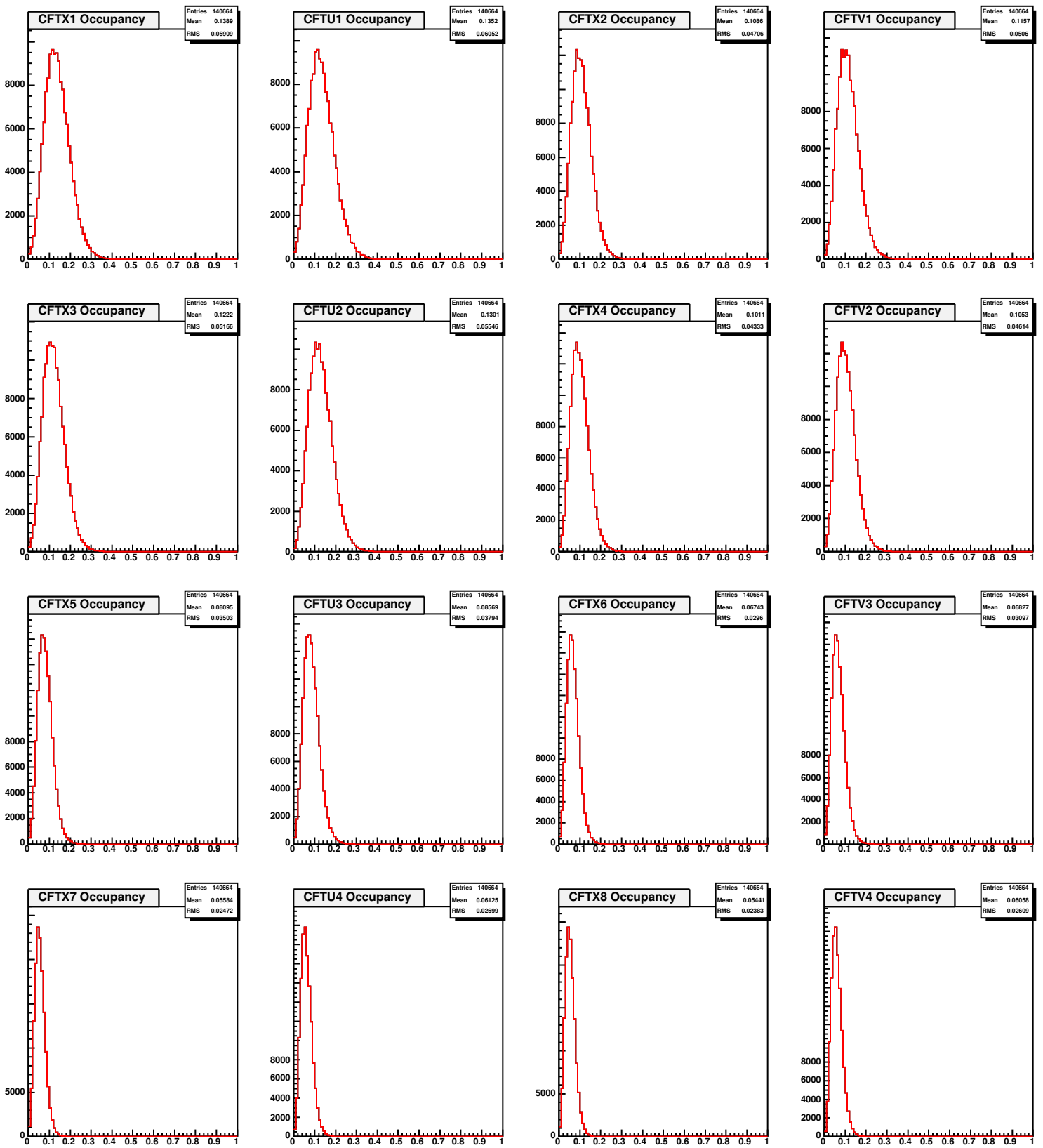



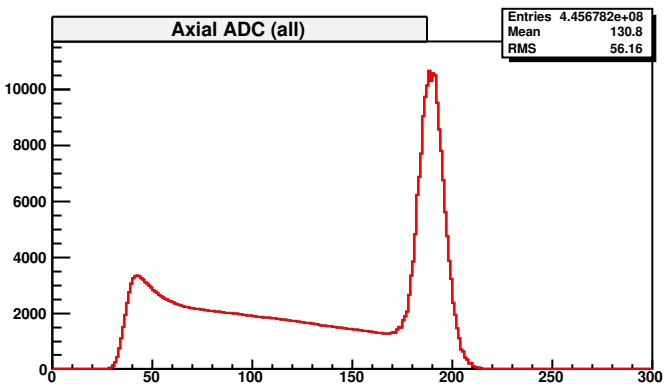



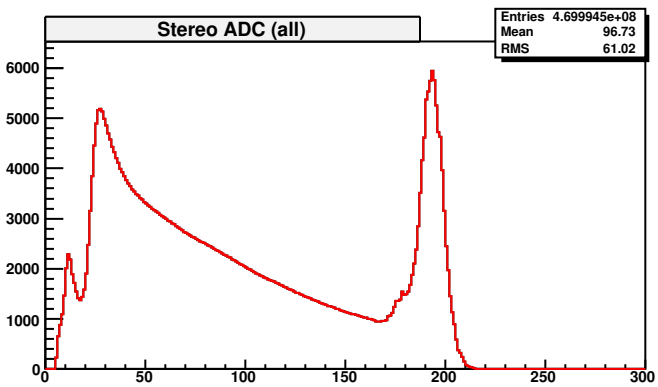



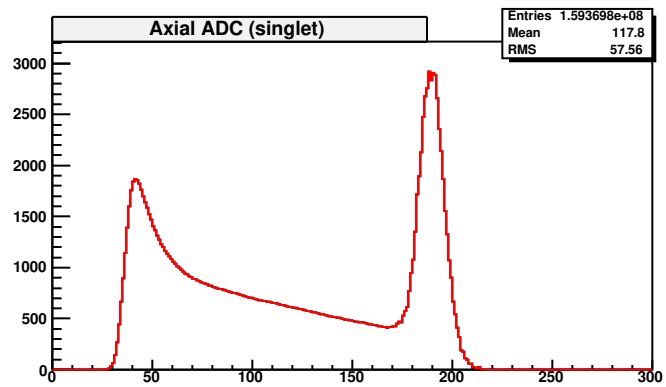

# CFT Summary (All Clusters)

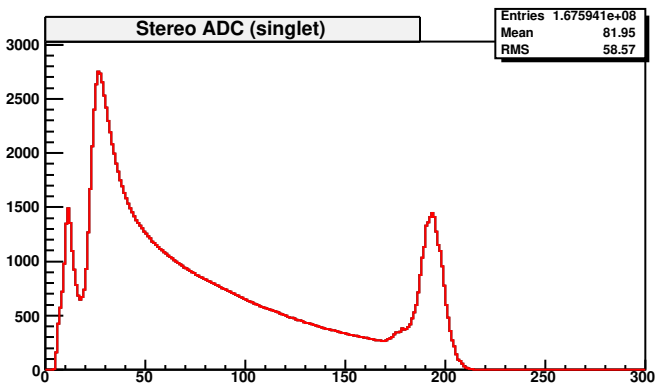


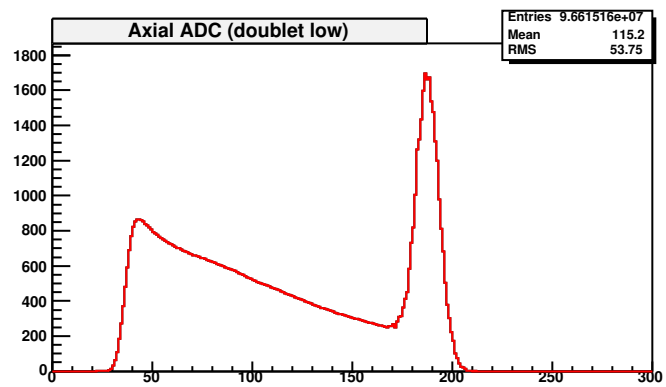

# CFT Occupancy (All Clusters)

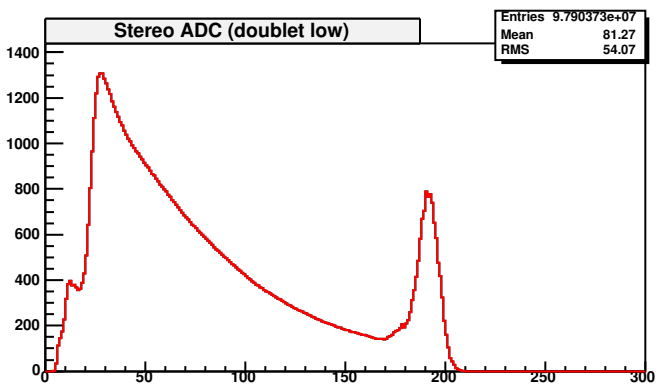


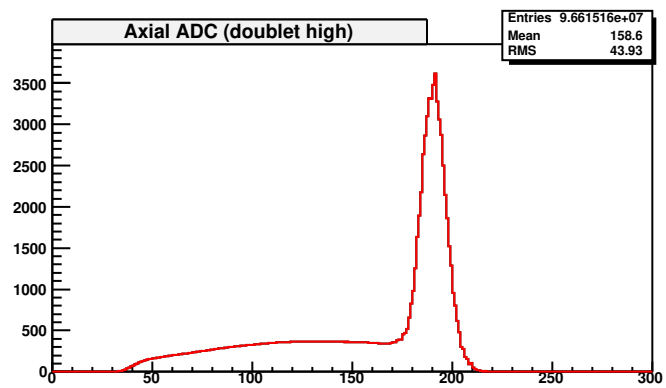



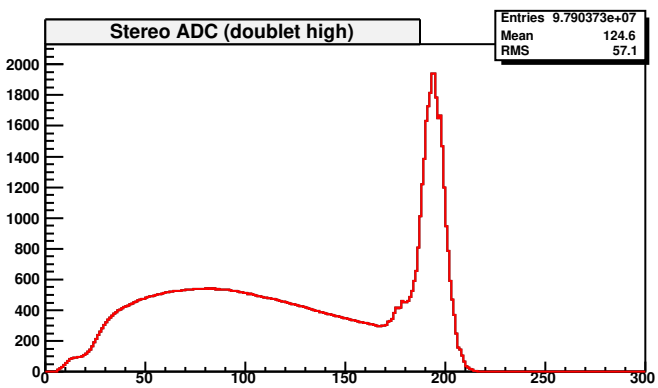



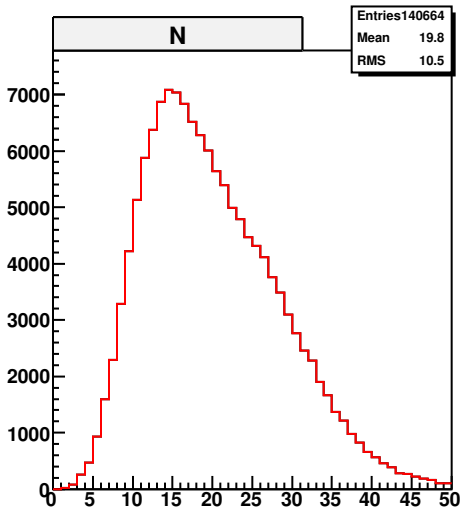



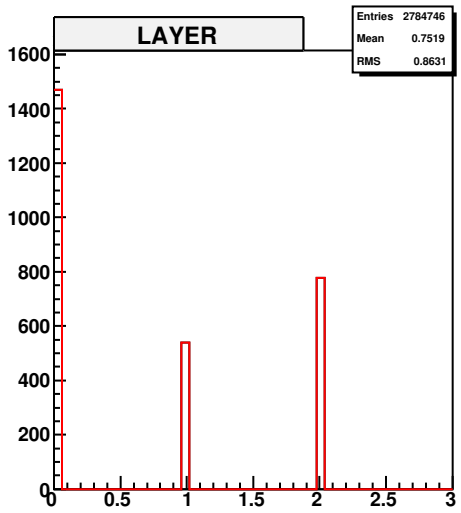



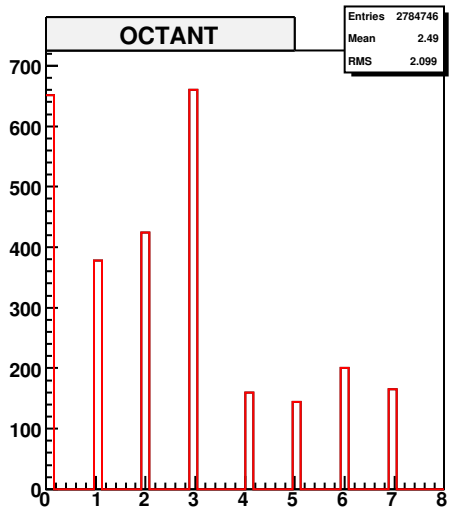



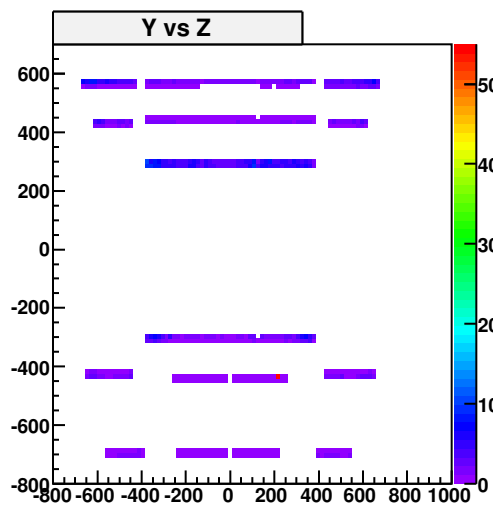



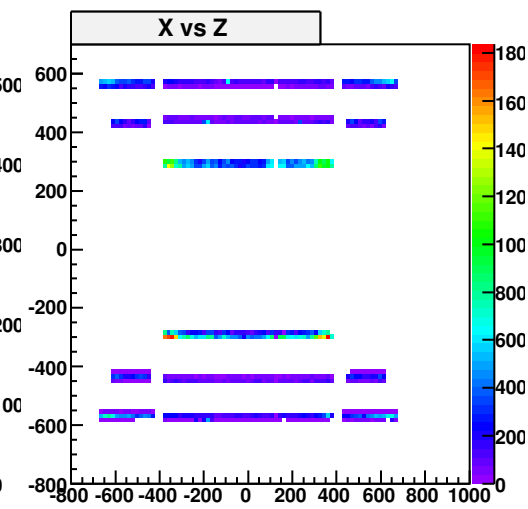

# CFT ADC Summary (All Clusters)

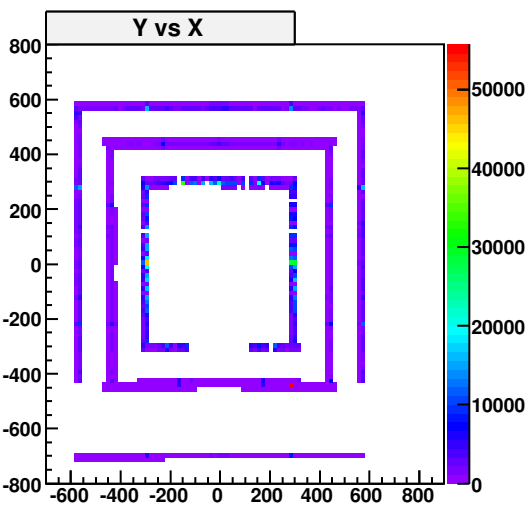

N
Entries 140664
Mean 19.8
RMS 10.5

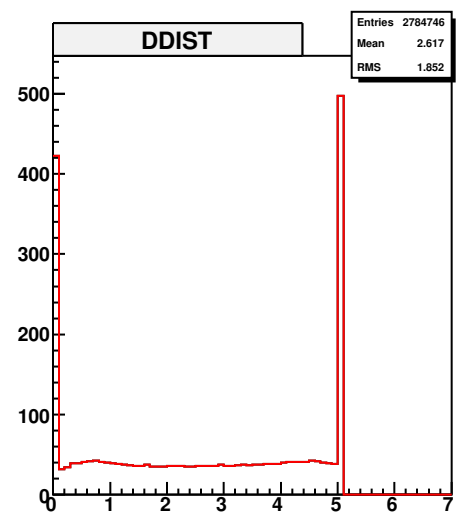

LAYER
Entries 2784746
Mean 0.7519
RMS 0.8631

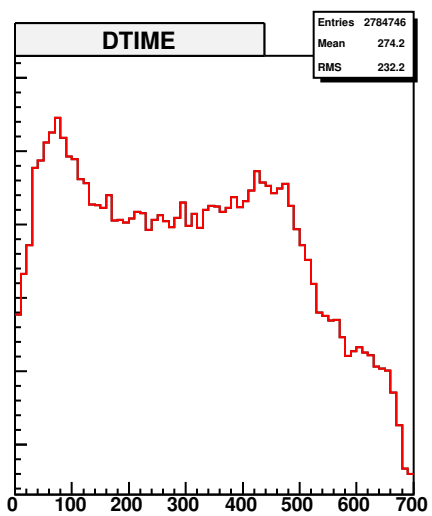

OCTANT
Entries 2784746
Mean 2.49
RMS 2.099


Y vs Z

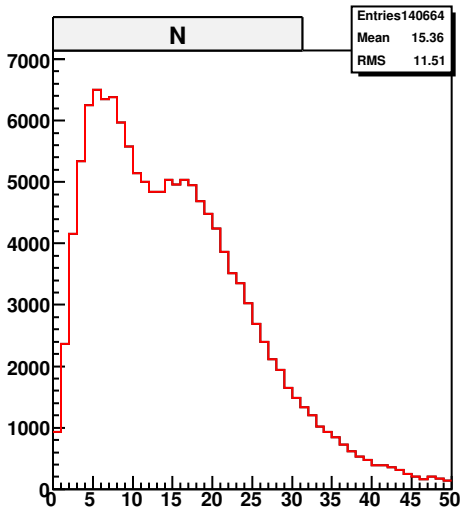

X vs Z

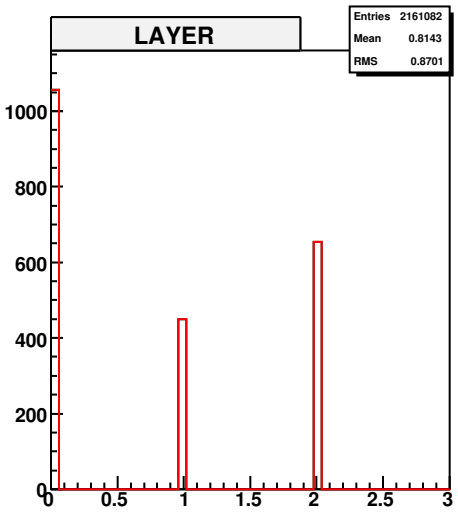

Y vs X

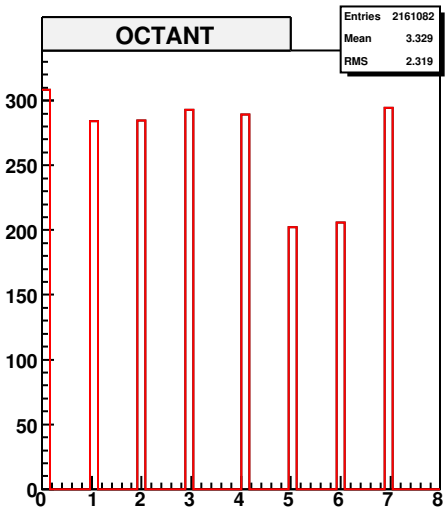

DDIST
Entries 2784746
Mean 2.617
RMS 1.852

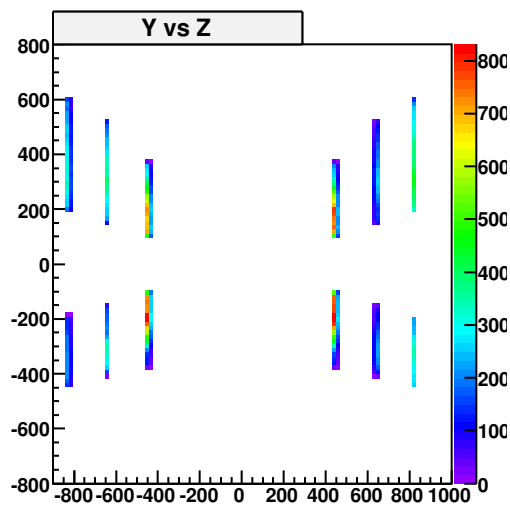

DTIME
Entries 2784746
Mean 274.2
RMS 232.2

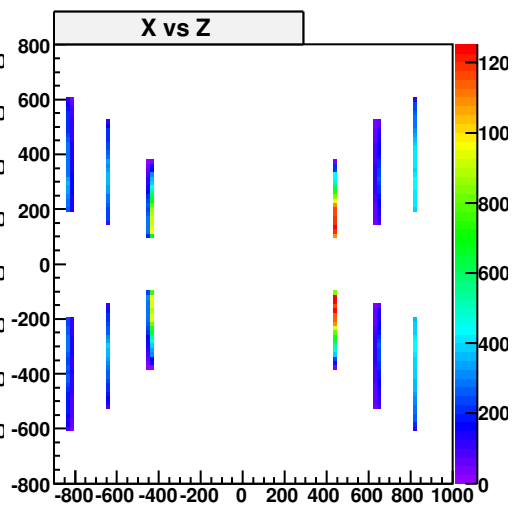
# MuonPDT (All)

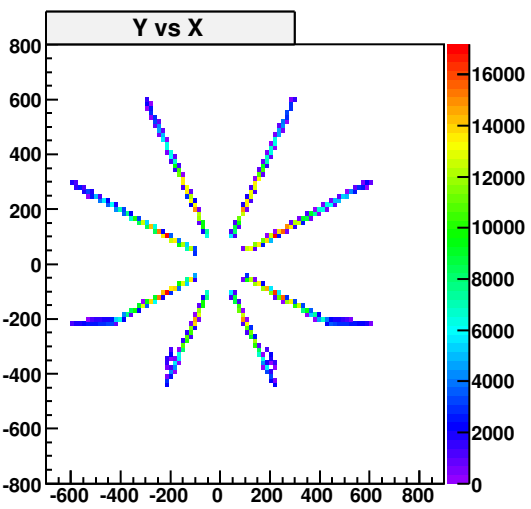

N
Entries 140664
Mean 15.36
RMS 11.51

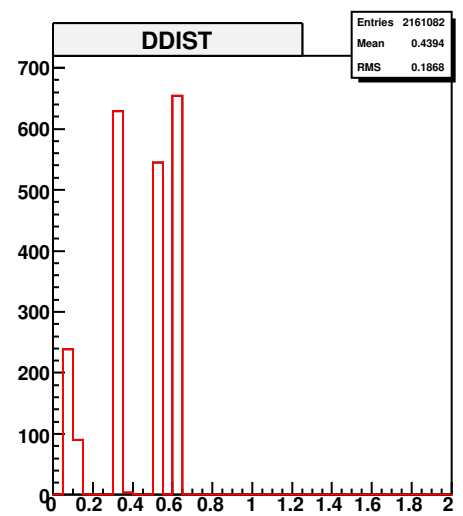

LAYER
Entries 2161082
Mean 0.8143
RMS 0.8701

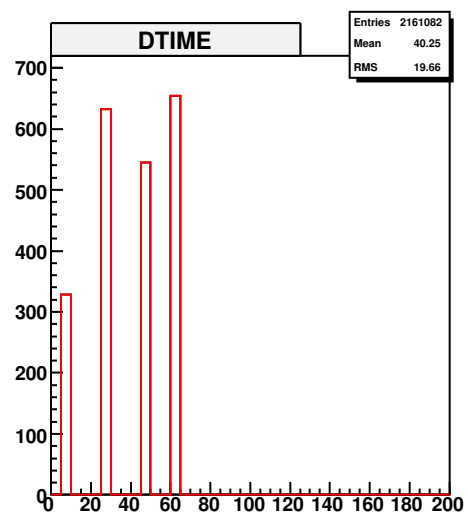

OCTANT
Entries 2161082
Mean 3.329
RMS 2.319


Y vs Z

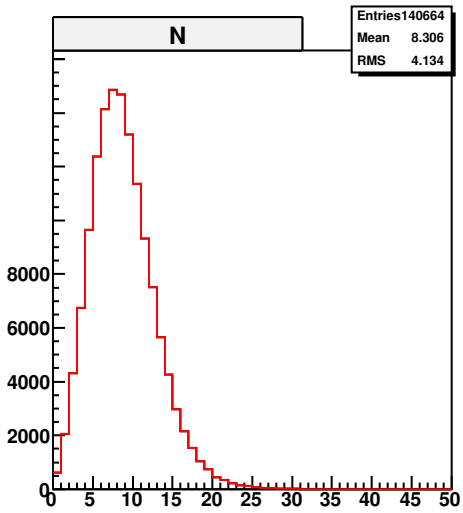

X vs Z

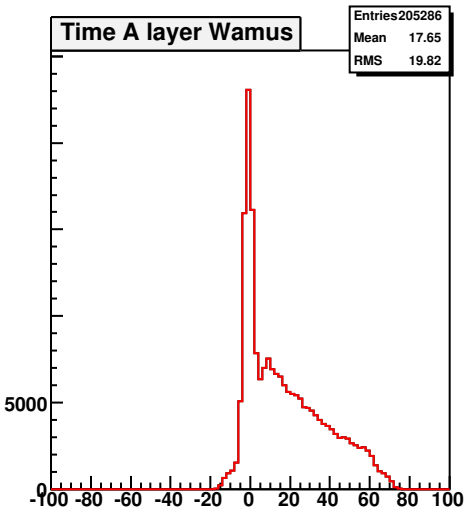

Y vs X

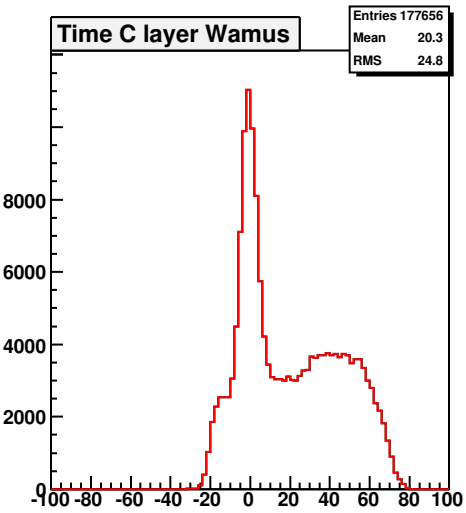

DDIST
Entries 2161082
Mean 0.4394
RMS 0.1868

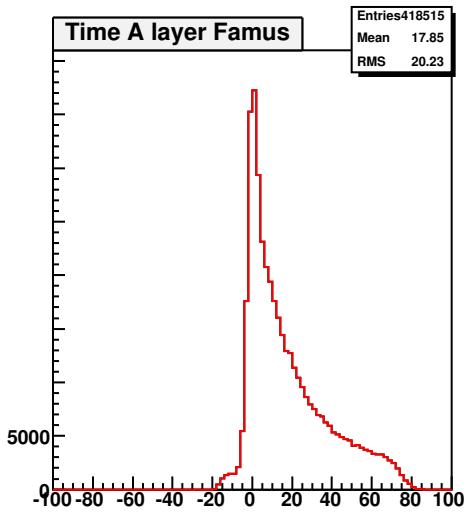

DTIME
Entries 2161082
Mean 40.25
RMS 19.66

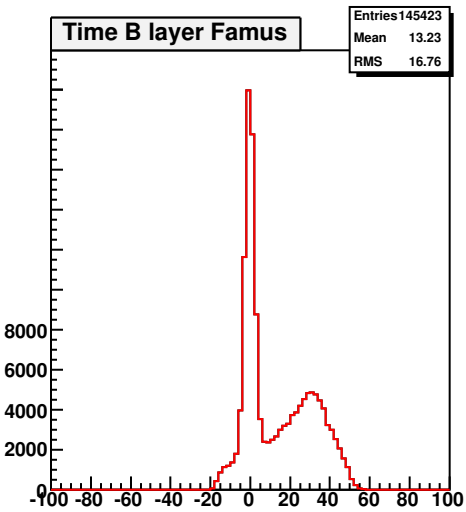
# MuonMDT (All)

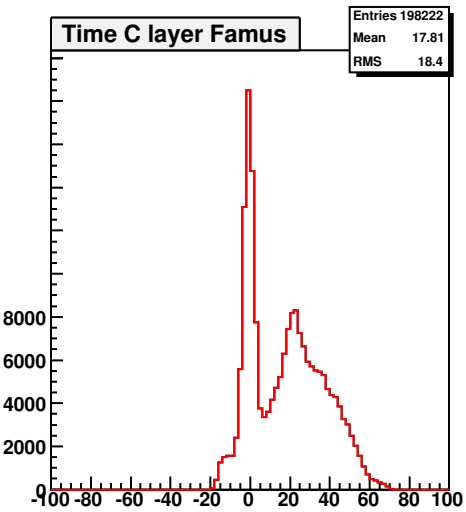

N
Entries 140664
Mean 8.306
RMS 4.134

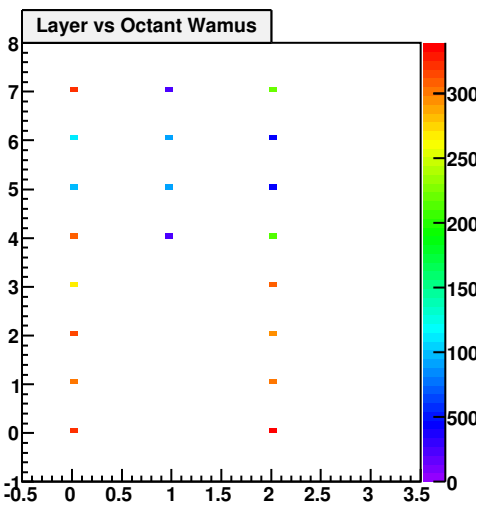

Time A layer Wamus
Entries 205286
Mean 17.65
RMS 19.82

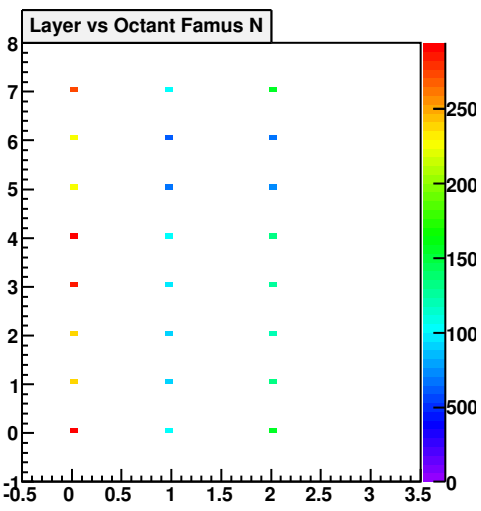

Time C layer Wamus
Entries 177656
Mean 20.3
RMS 24.8

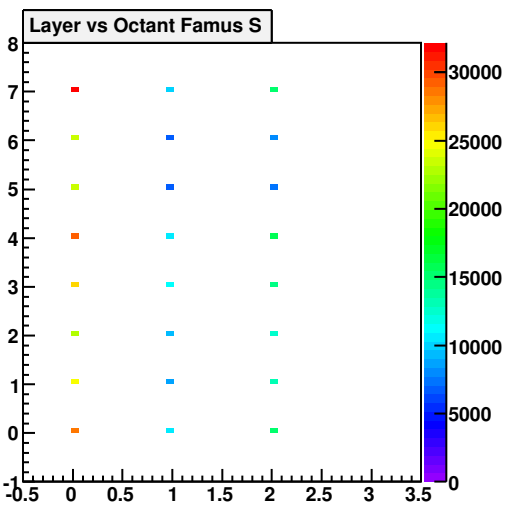

Time A layer Famus
Entries 418515
Mean 17.85
RMS 20.23


Time B layer Famus
Entries 145423
Mean 13.23
RMS 16.76

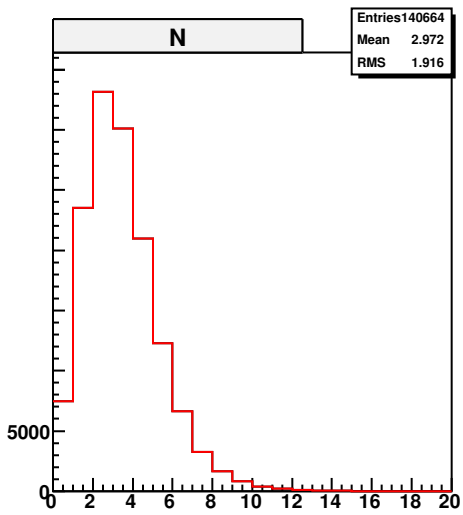

Time C layer Famus
Entries 198222
Mean 17.81
RMS 18.4

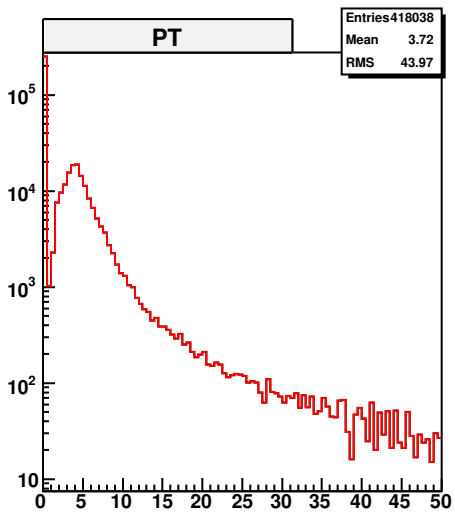

Layer vs Octant Wamus

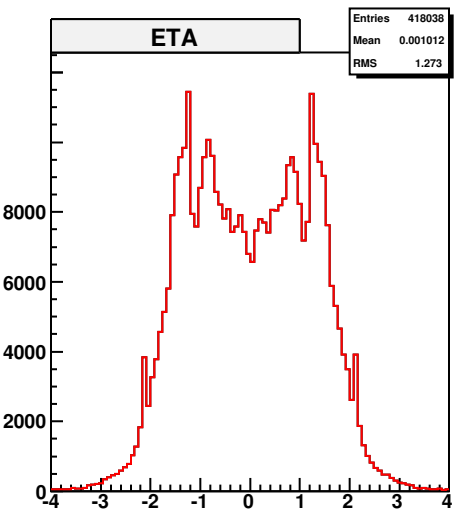

Layer vs Octant Famus N

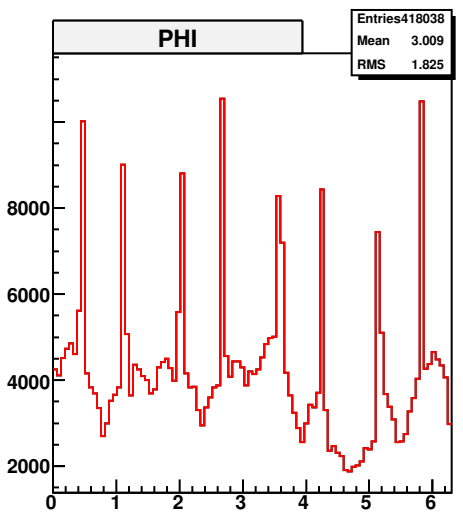

Layer vs Octant Famus S

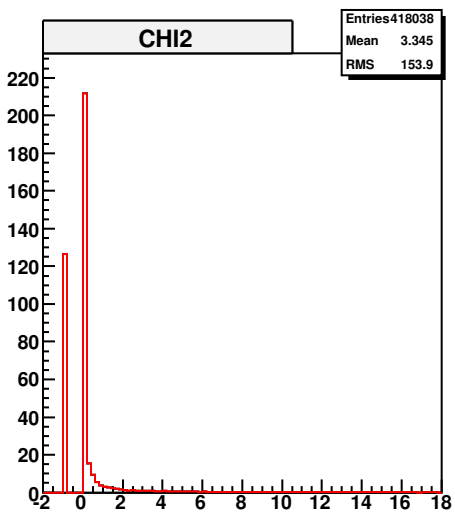
# MuonMSC (All)

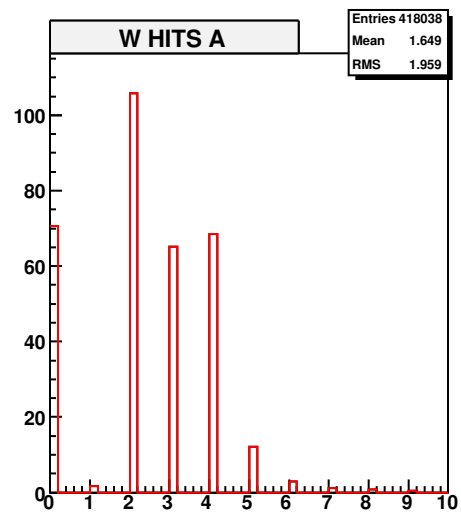


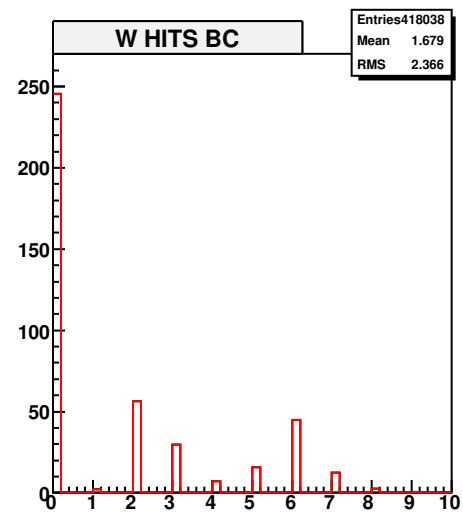



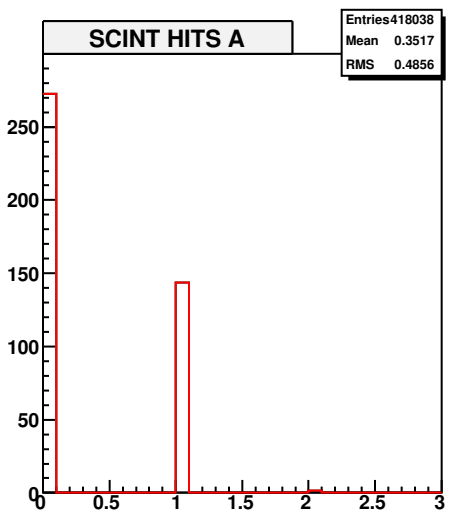



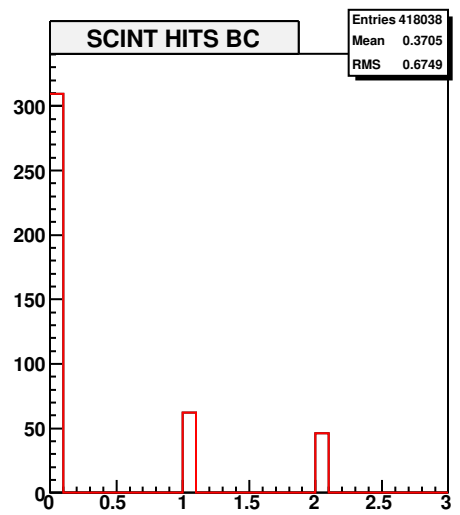



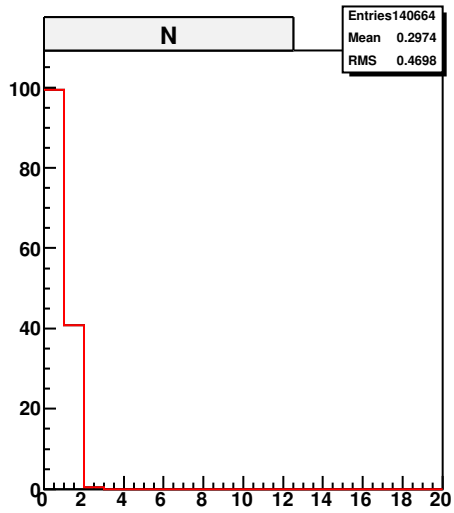



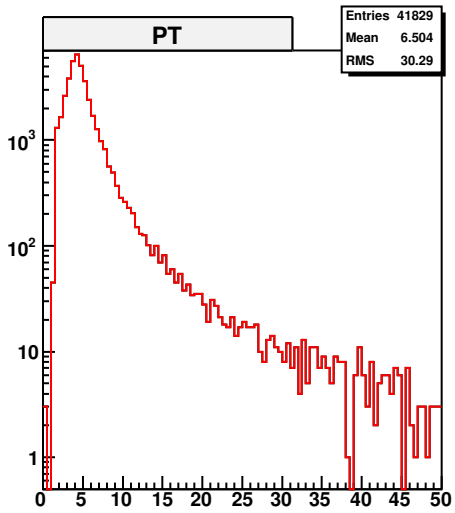



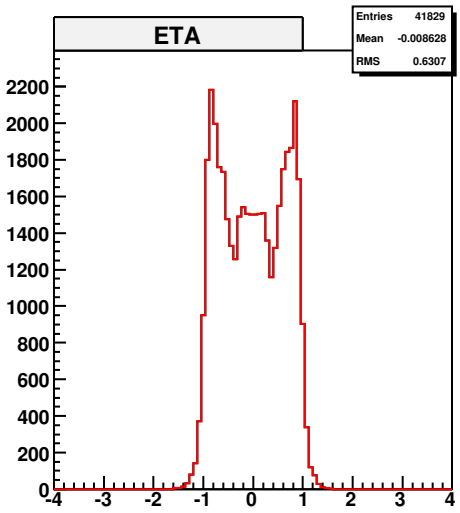



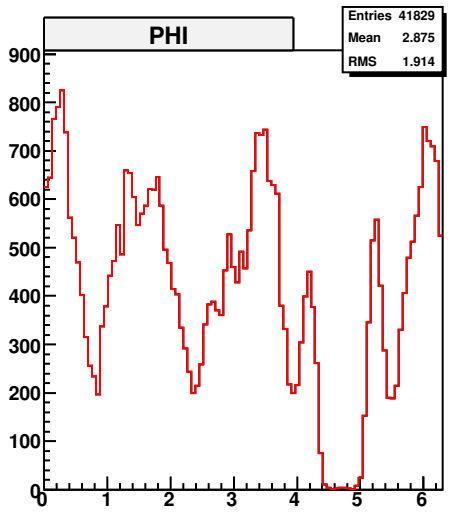



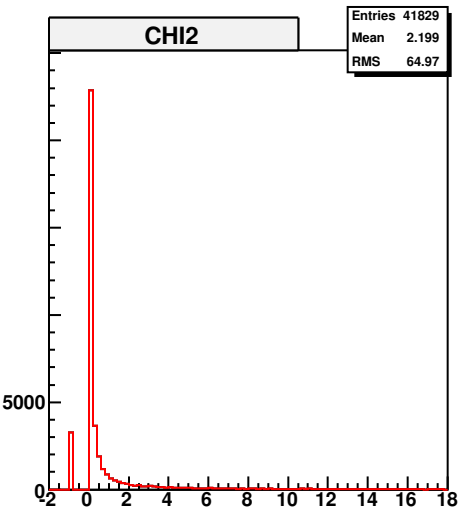

# Muon Local Tracks (All)

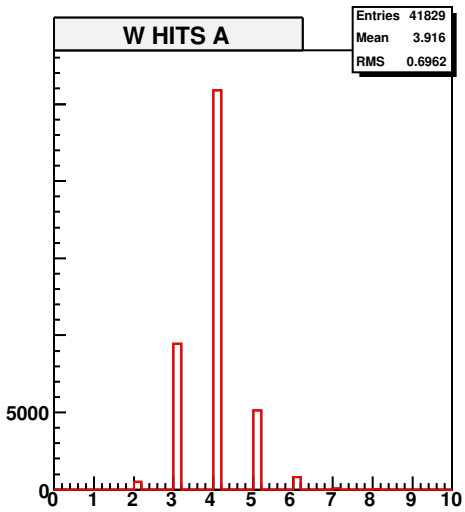


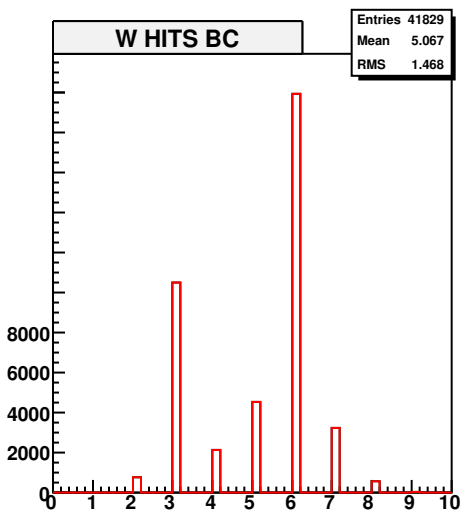



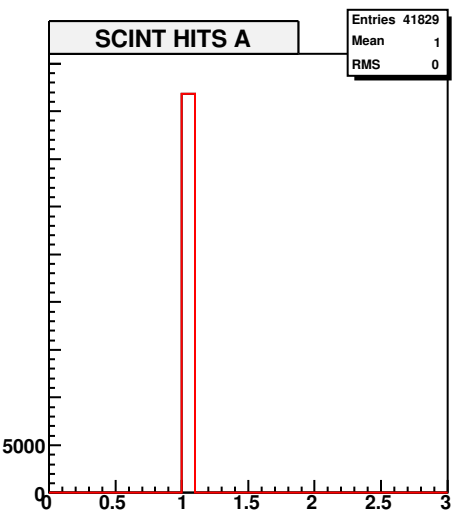



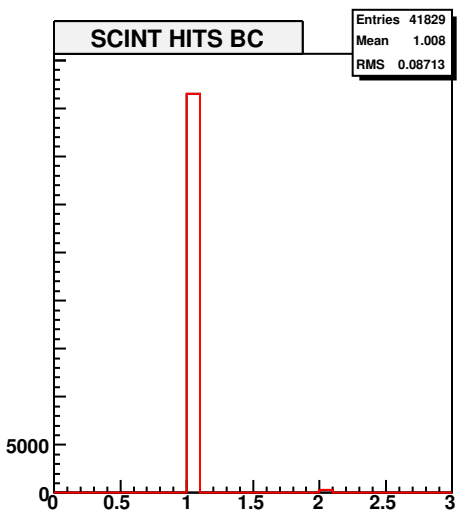



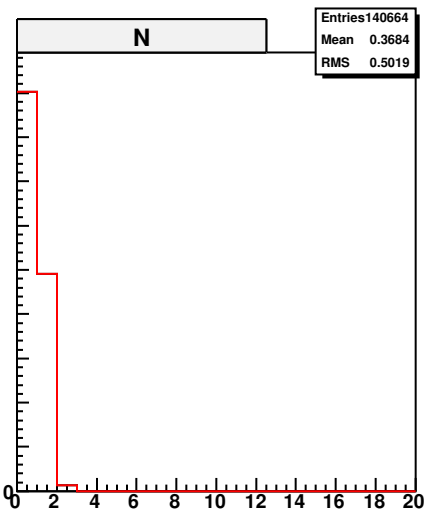



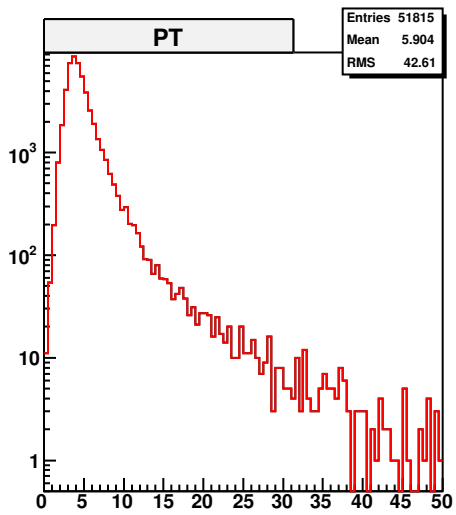



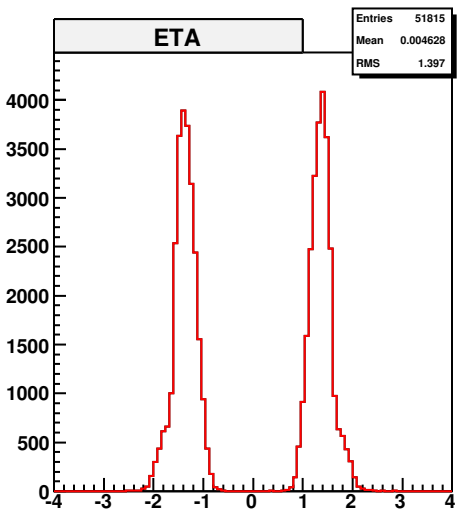



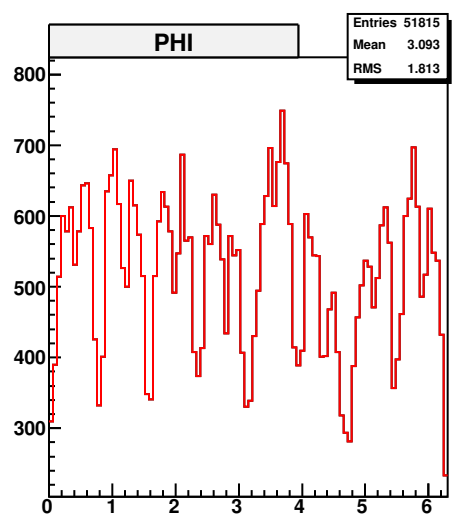



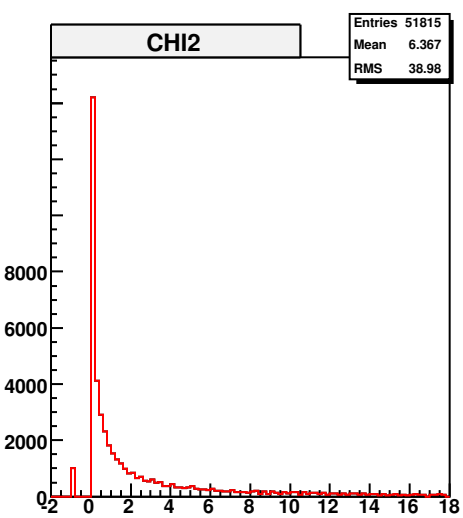

# Muon Local Tracks (MediumWamus)

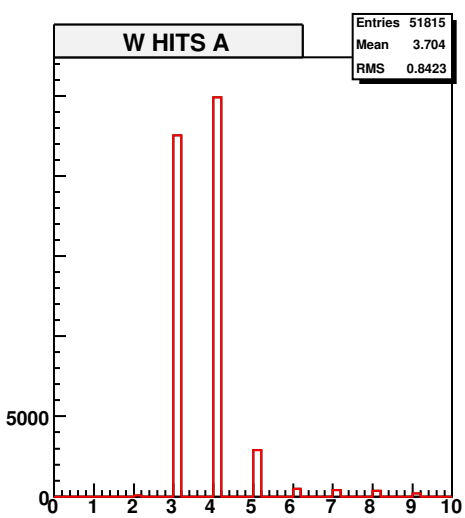


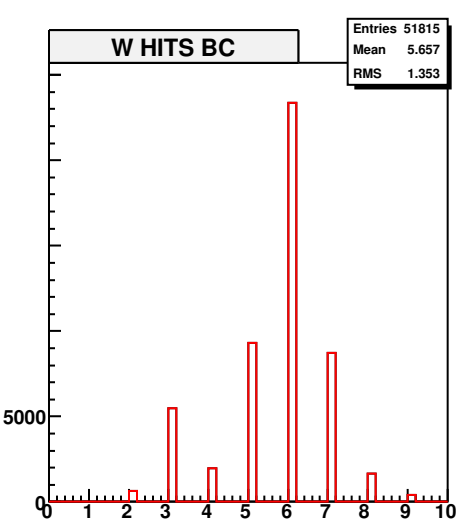



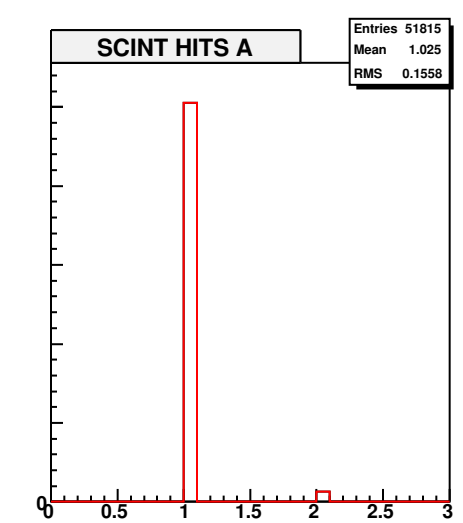



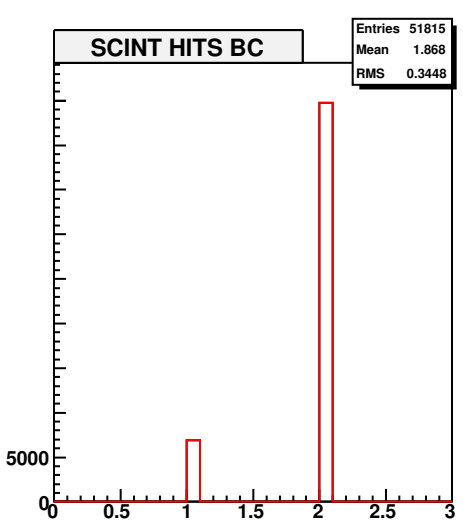



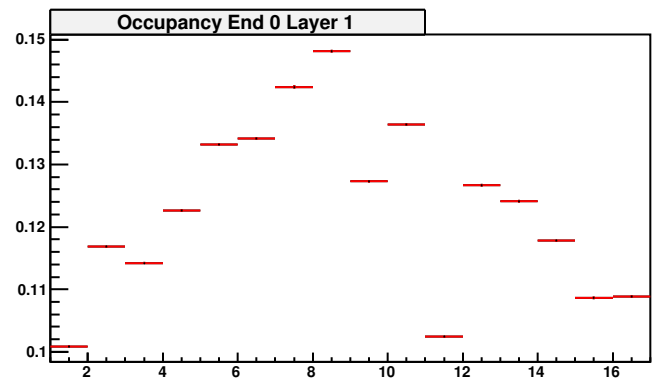



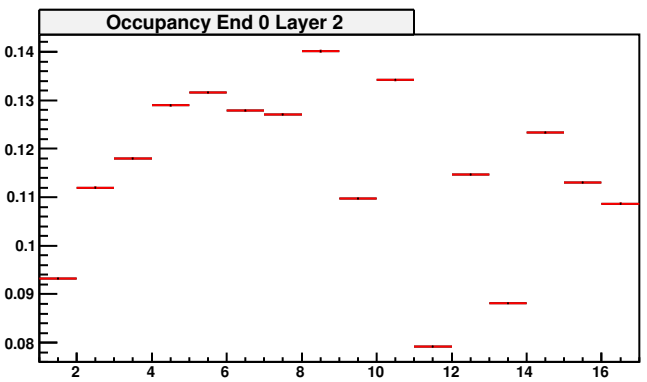



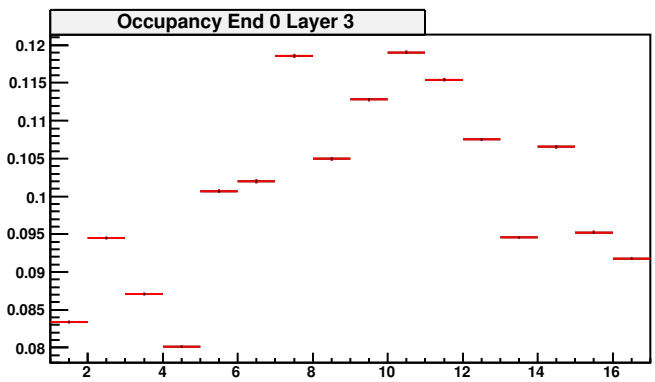



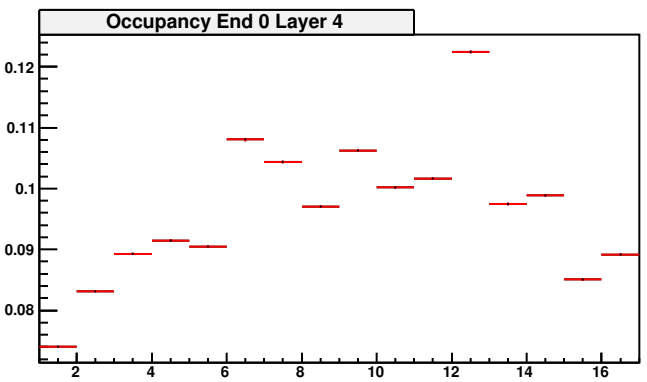



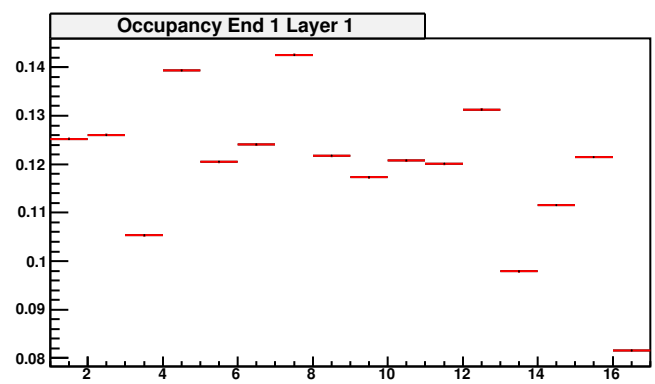

# Muon Local Tracks (MediumFamus)

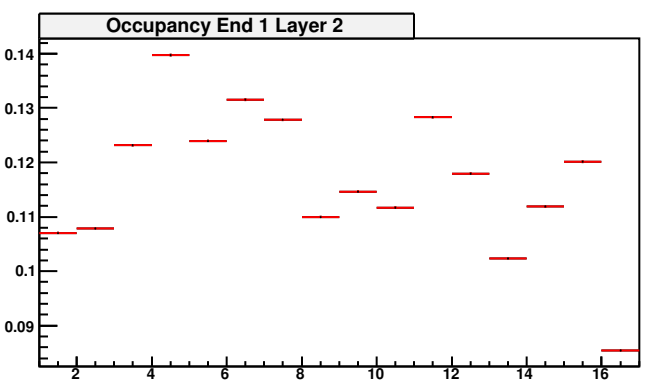


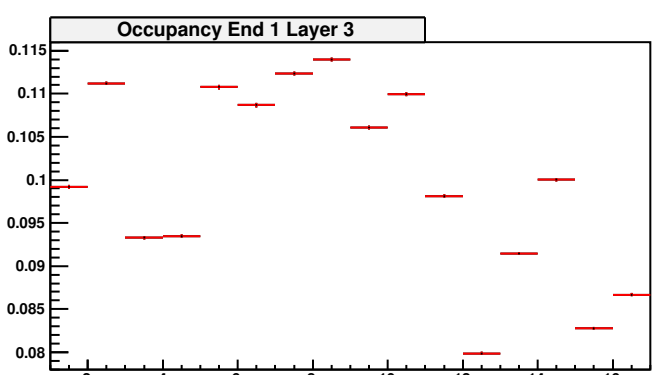



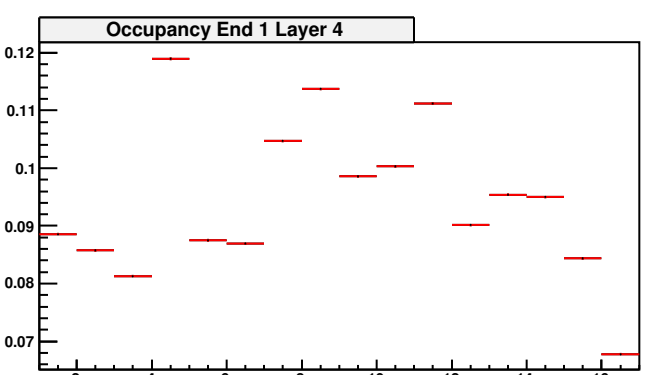



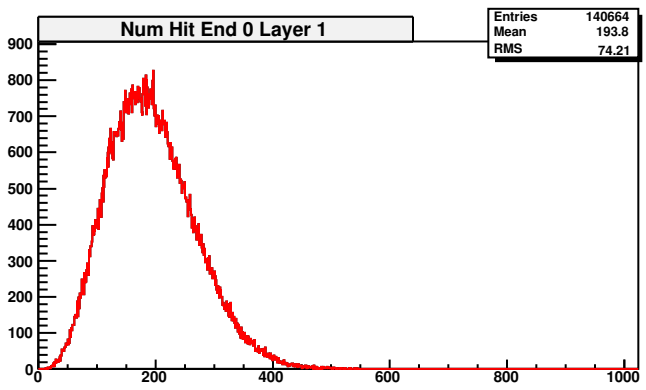



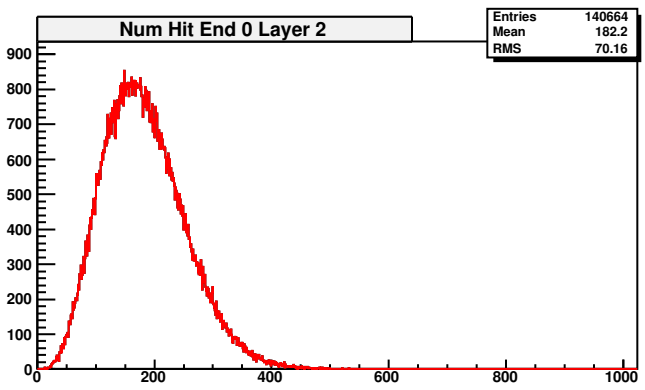



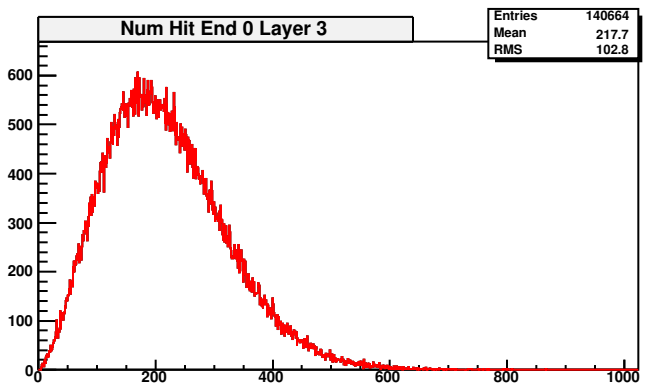



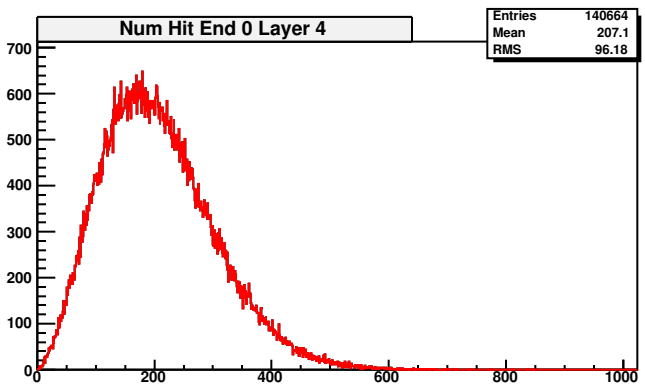



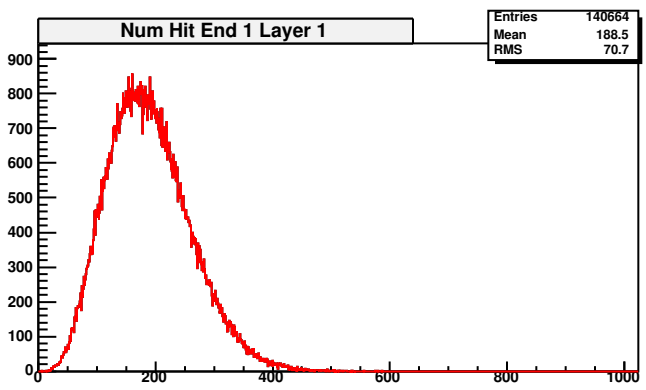

# FPS Hit Occupancy (All)

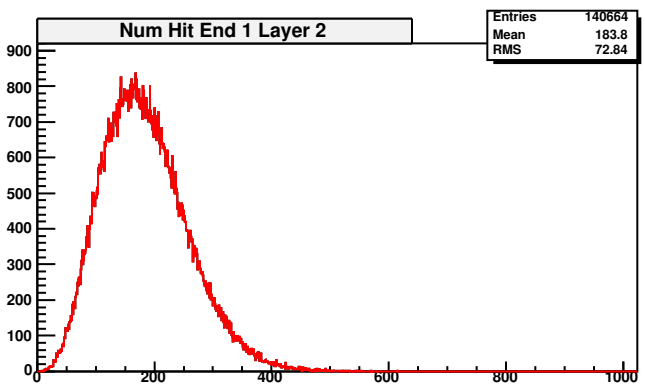


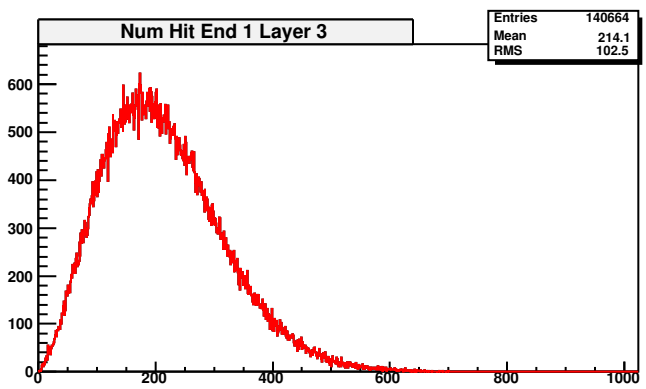



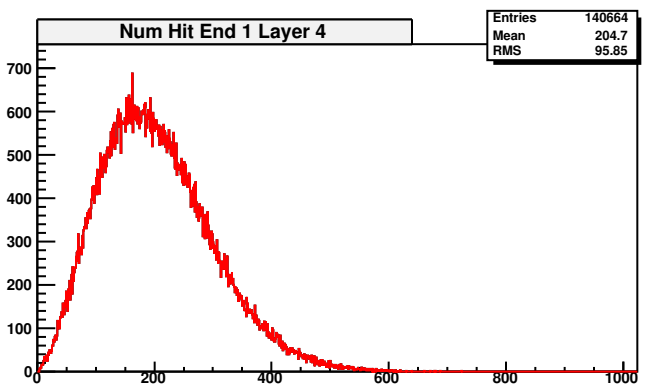



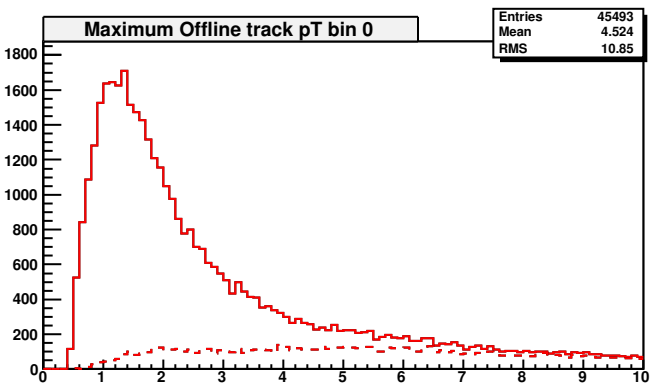



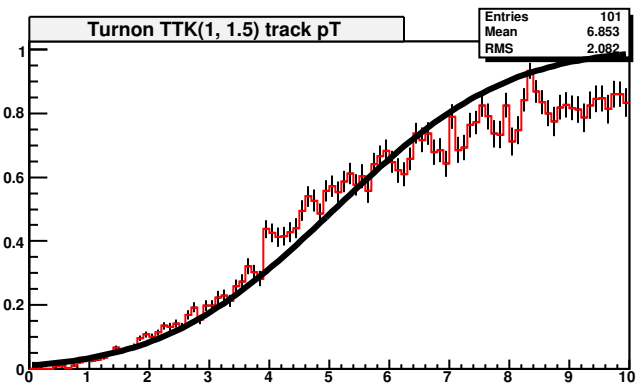



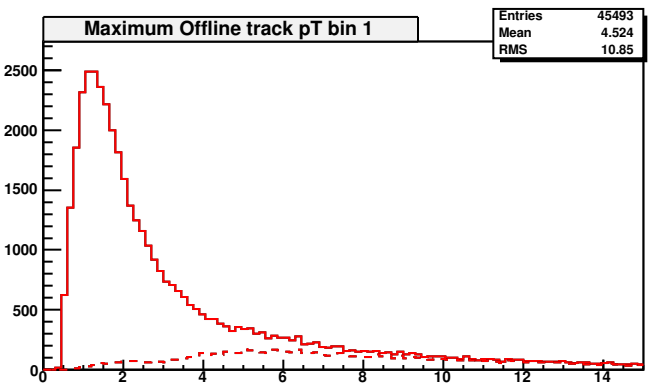



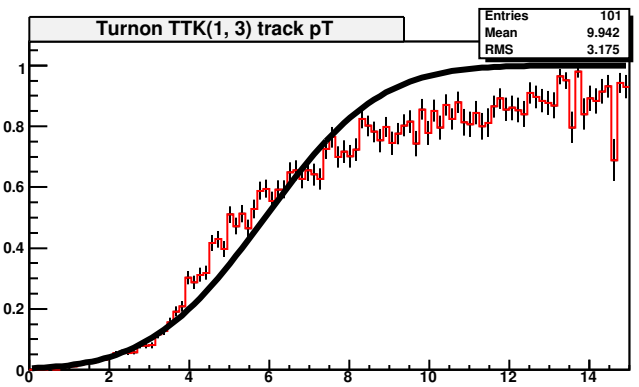



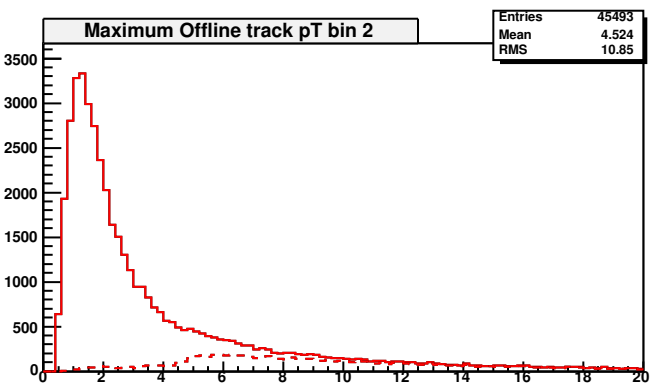

# FPS Number of Hits (All)

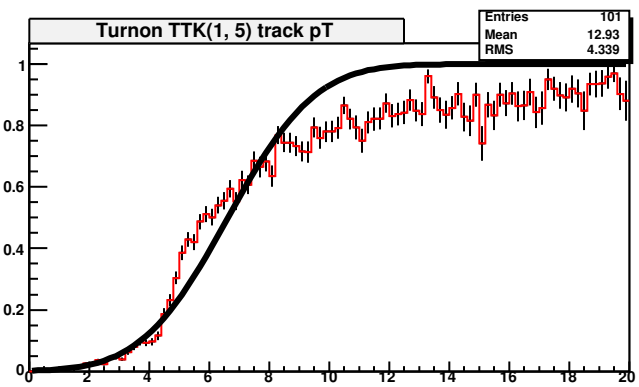


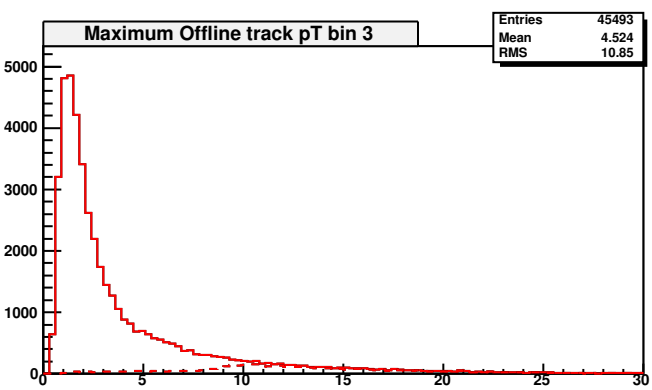



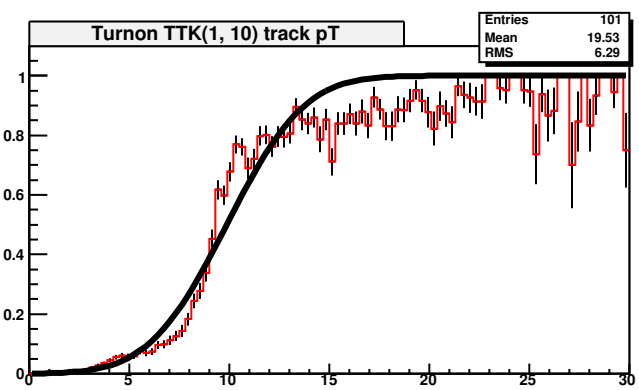



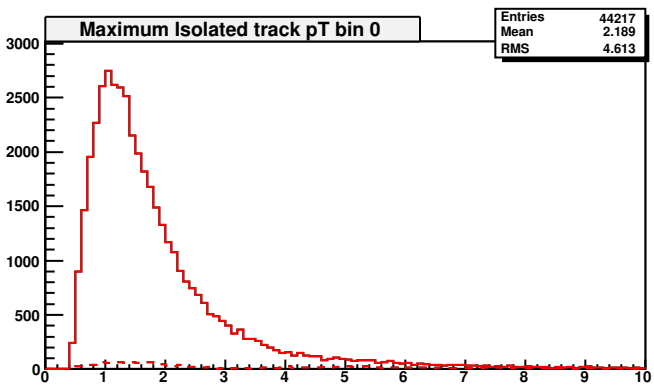



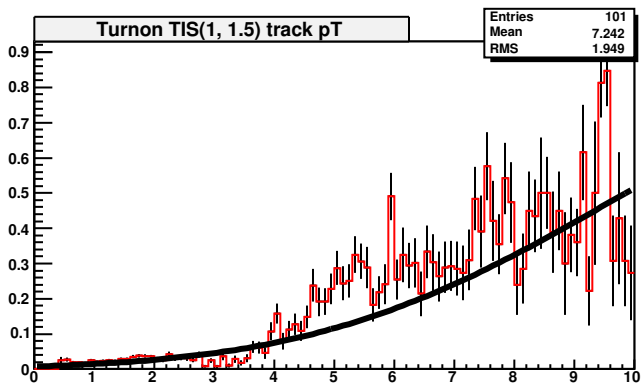



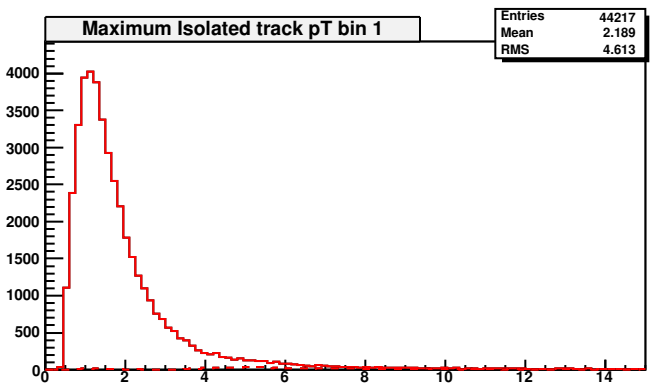



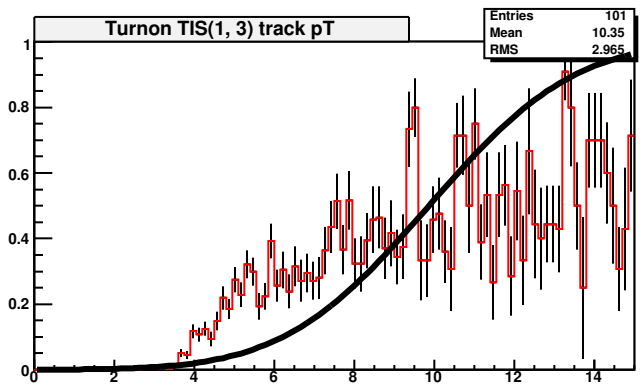



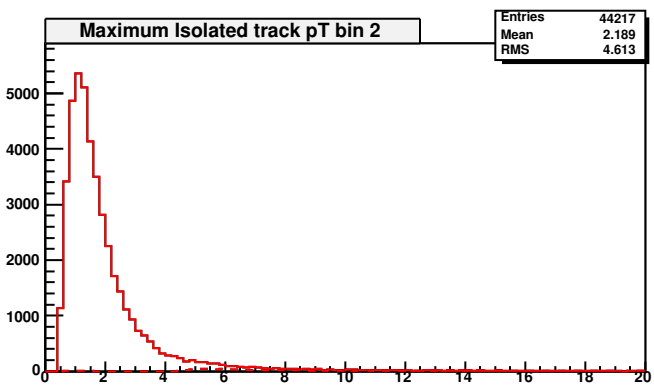

# TTK Turnon curves (L1CTT All)

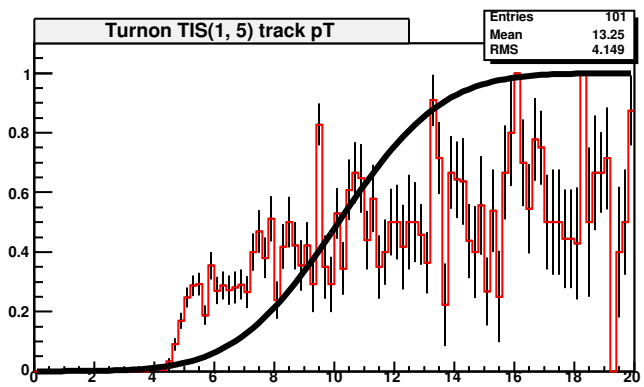


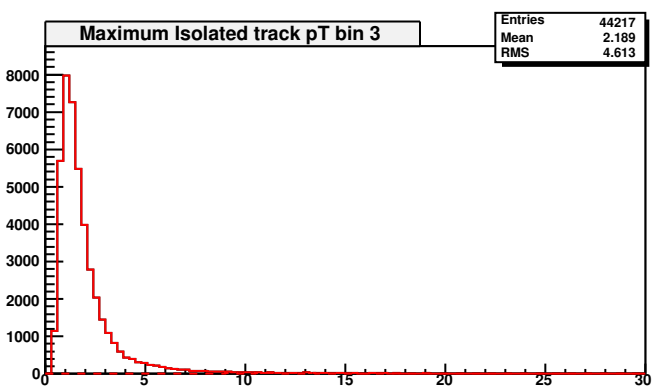



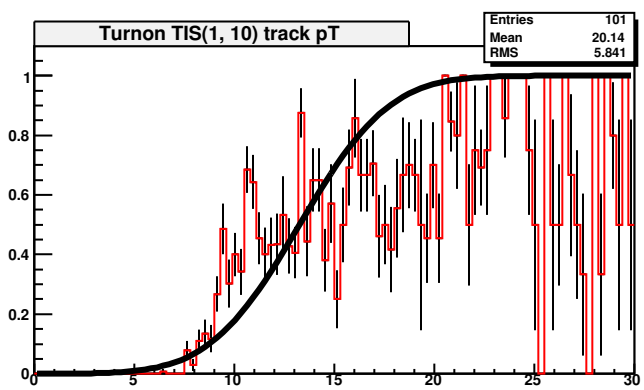



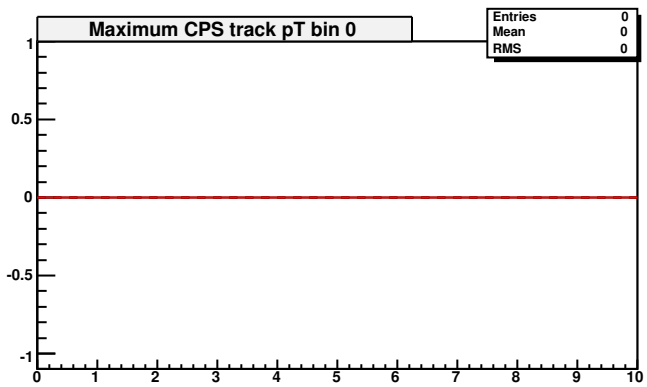



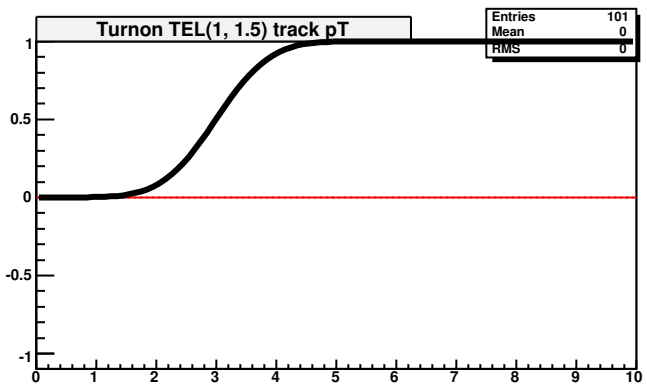



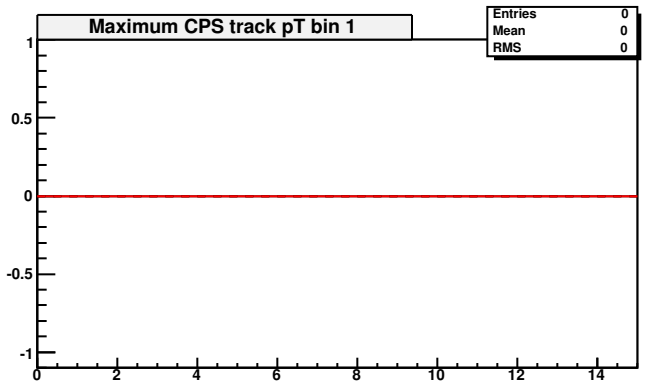



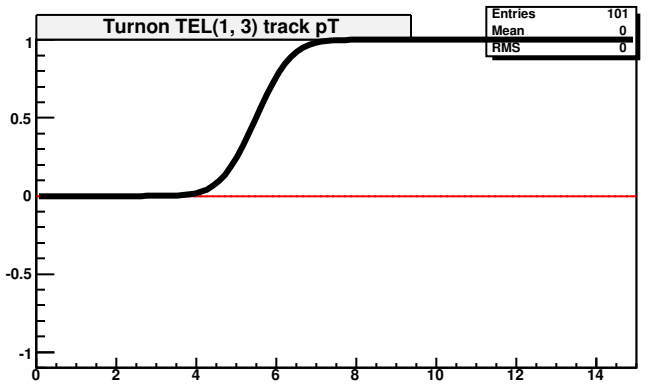



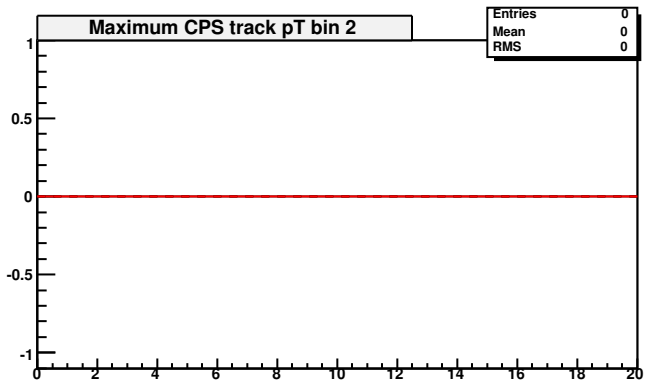

# TIS Turnon curves (L1CTT All)

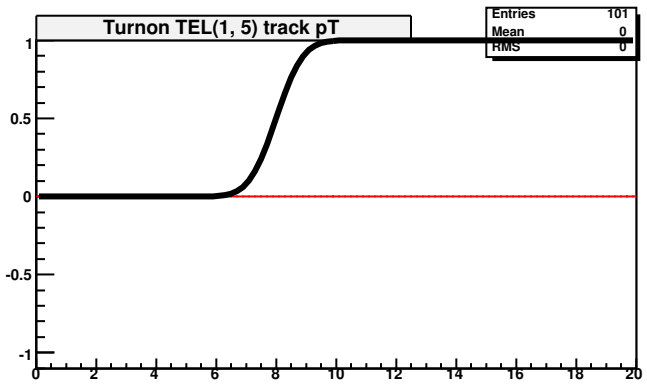


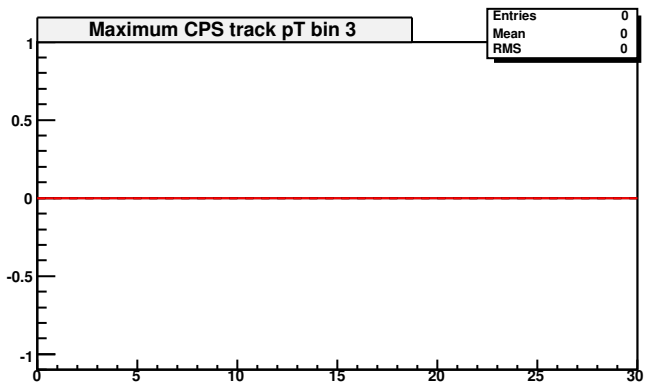



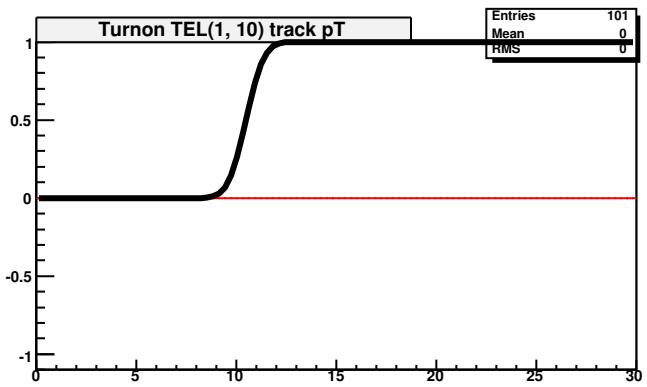



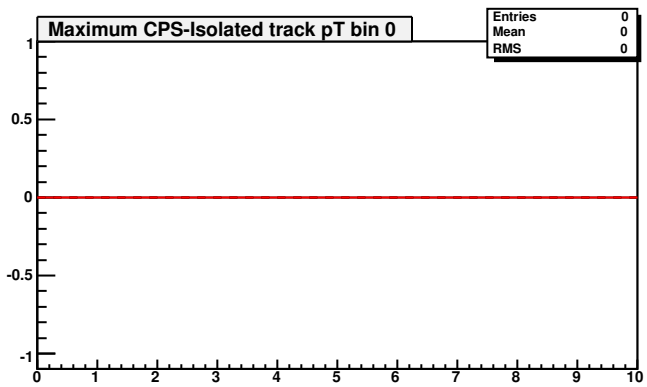



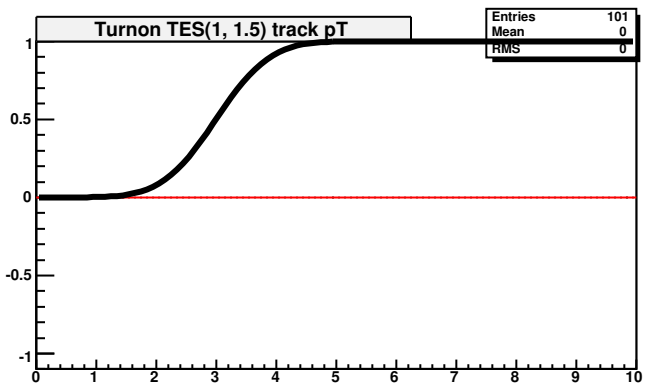



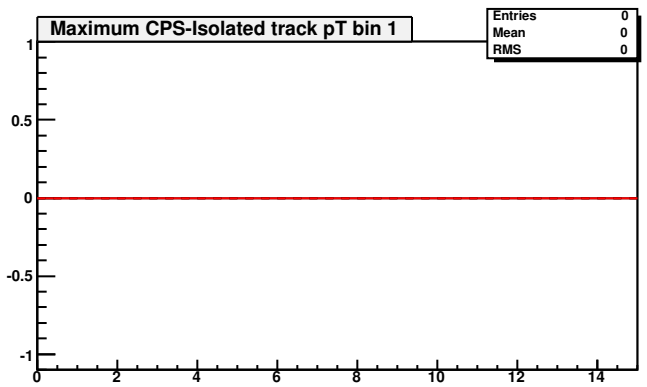



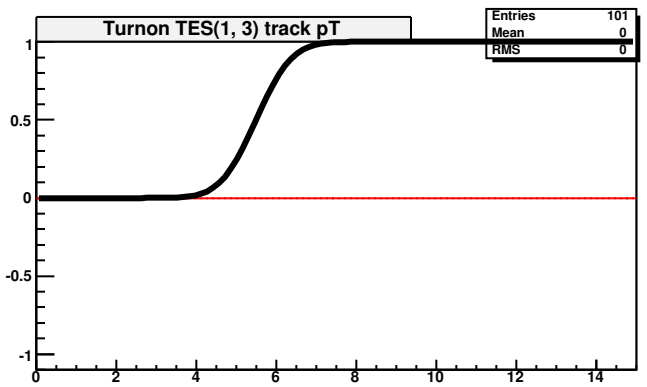



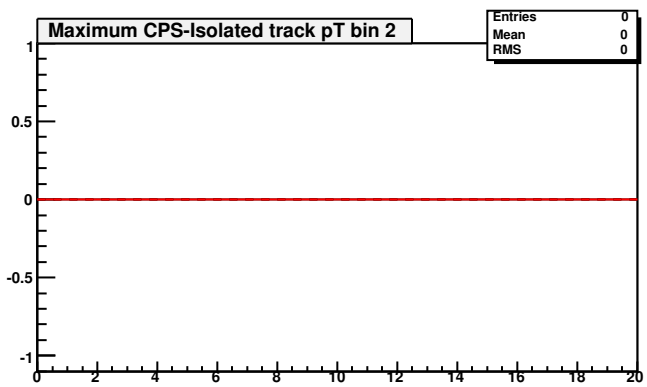

# TEL Turnon curves (L1CTT All)

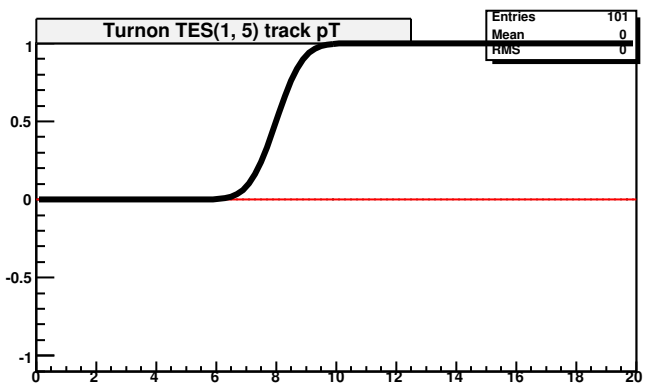


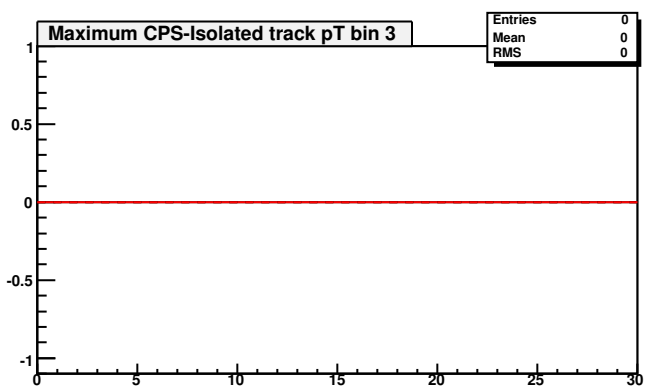



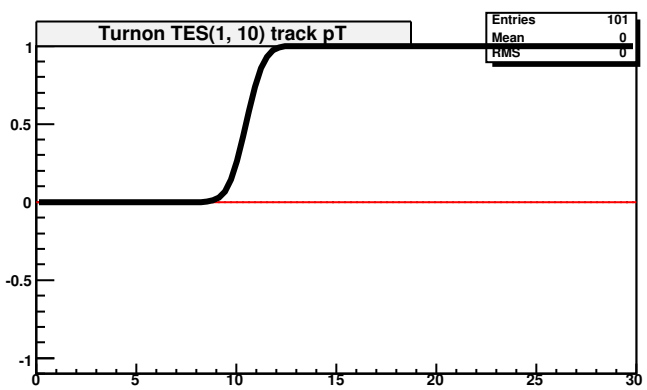



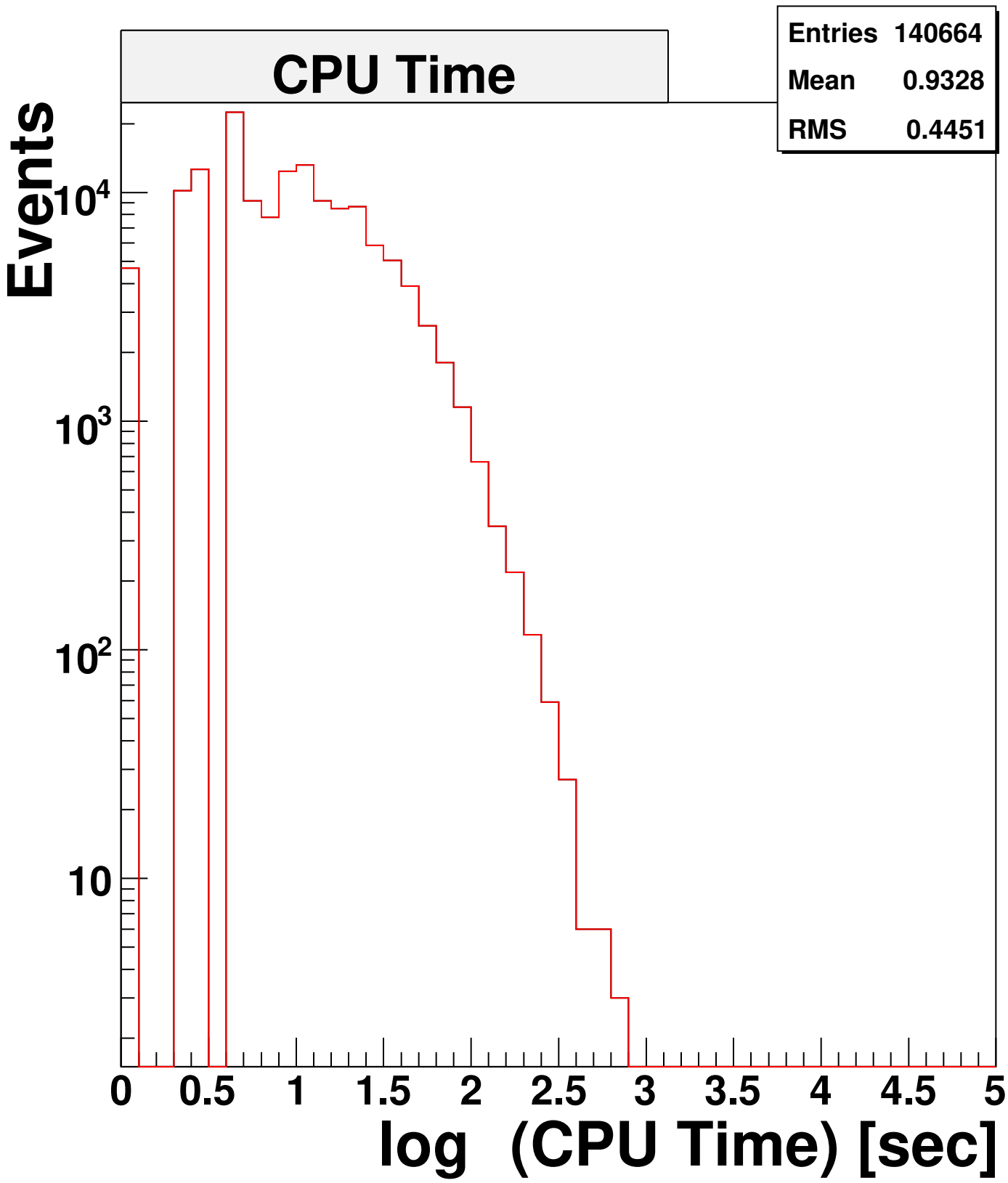




# TES Turnon curves (L1CTT All)




RECO Performance (Timing)