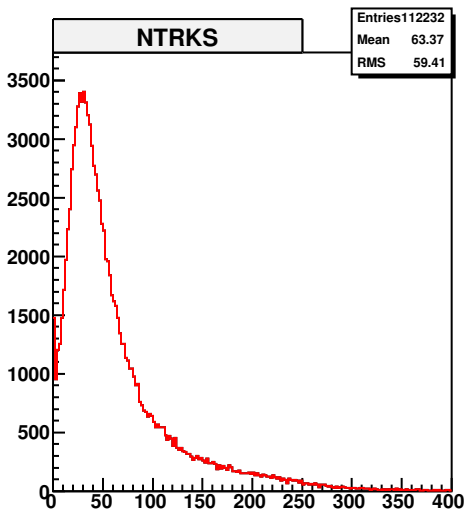
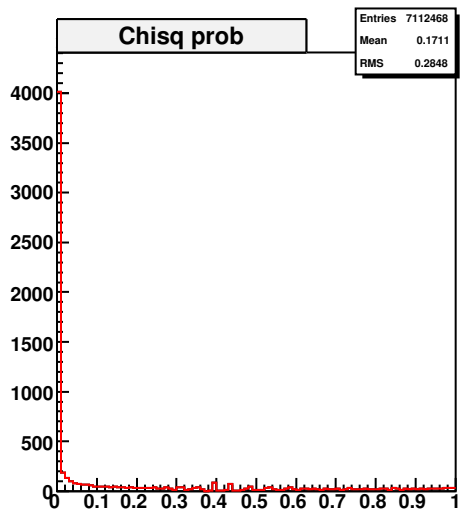
# dayset-2006-08-27-all_3-224619-0_certification_20070
# ../unmerged/dayset-2006-08-27-all_3-224619-0_certific

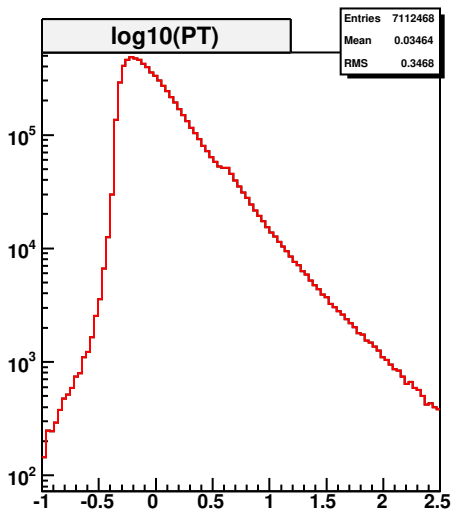

Page 3: Tracks (All)
Page 4: Tracks Hits (All)
Page 5: Tracking (Efficiency - Isolated)
Page 6: Tracking (Efficiency - InJets)
Page 7: Vertices (Primary - all candidates)
Page 8: Vertices (Primary - best)
Page 9: V0 (All)
Page 10: V0 (B mesons)
Page 11: Electrons (SCONE All)
Page 12: Electrons (SCONE Tight)
Page 13: Muons (All)
Page 14: Muons (Matched)
Page 15: Muons (Astub)
Page 16: Muons (BCstub)
Page 17: Muons (Unmateched)
Page 18: Taus NN (ALL)
Page 19: Taus NNL3 (ALL)
Page 20: Met (No cuts)
Page 21: Jets (Cone R 0.7 no cuts)
Page 22: Jets (Cone R 0.7 standard cuts)
Page 23: Jets (Cone R 0.7 standard cuts, MET>30)
Page 24: Detector Occupancy (Detector)
Page 25: Detector Occupancy (Detector vs Detector)
Page 26: Calorimeter (All cells)
Page 27: Calorimeter (All CC cells)
Page 28: Calorimeter (All EC cells)
Page 29: Cal Objects with MET>30 (All cells)
Page 30: Calorimeter Event Quality (All cells)
Page 31: CPS Hit Strips (All Clusters)
Page 32: CPS Clusters (All Clusters)
Page 33: SmtClusters (allBarClusters)
Page 34: SmtClusters (allFDiskClusters)
Page 35: SmtClusters (allHDiskClusters)
Page 36: SmtClusters (Layer 0)
Page 37: SmtClusters (ClustrBar1)
Page 38: SmtClusters (ClustrBar2)
Page 39: SmtClusters (ClustrBar3)
Page 40: SmtClusters (ClustrBar4)
Page 41: SmtClusters (ClustrBar5)
Page 42: SmtClusters (ClustrBar6)
Page 43: SmtClusters (FDiskClusters)
Page 44: SmtClusters (HDiskClusters)
Page 45: CFT Summary (All Clusters)
Page 46: CFT Occupancy (All Clusters)
Page 47: CFT ADC Summary (All Clusters)
Page 48: MuonPDT (All)
Page 49: MuonMDT (All)
Page 50: MuonMSC (All)
Page 51: Muon Local Tracks (All)
Page 52: Muon Local Tracks (MediumWamus)
Page 53: Muon Local Tracks (MediumFamus)

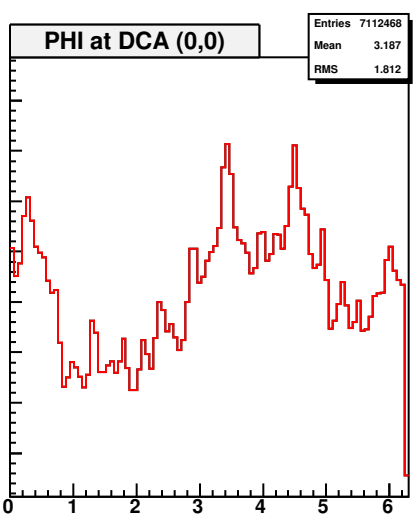

## RecoCert_Plots (Index)

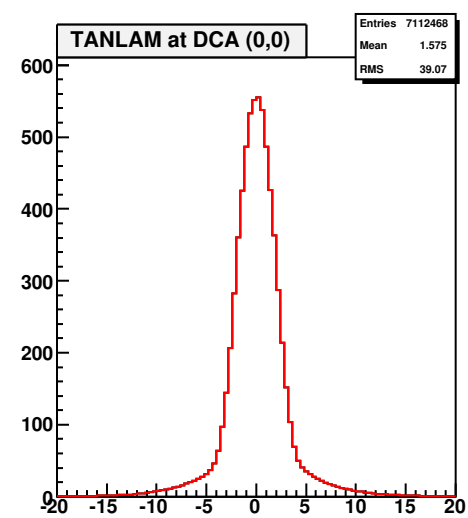
**Page 54: FPS Trigger Sector Occupancy**
**Page 55: FPS Number of Hits**
**Page 56: L1CTT TTK Trigger Turn-on (All)**
**Page 57: L1CTT TIS Trigger Turn-on (All)**
**Page 58: L1CTT TEL Trigger Turn-on (All)**
**Page 59: L1CTT TES Trigger Turn-on (All)**
**Page 60: RECO Performance (Timing)**

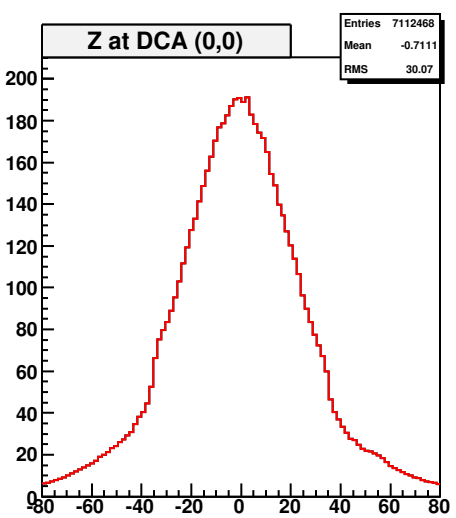

NTRKS
Entries 112232
Mean 63.37
RMS 59.41

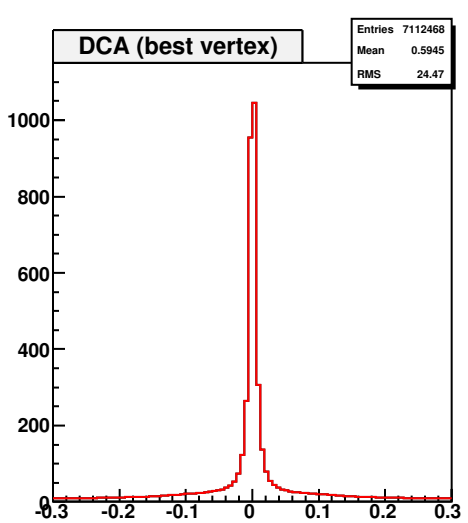

Chisq prob
Entries 7112468
Mean 0.1711
RMS 0.2848

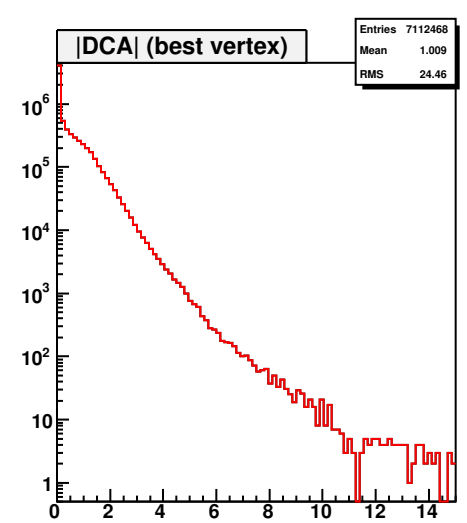

log10(PT)
Entries 7112468
Mean 0.03464
RMS 0.3468

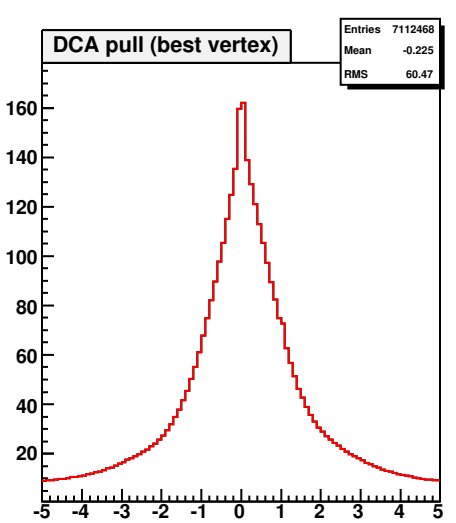

PHI at DCA (0,0)
Entries 7112468
Mean 3.187
RMS 1.812


TANLAM at DCA (0,0)
Entries 7112468
Mean 1.575
RMS 39.07

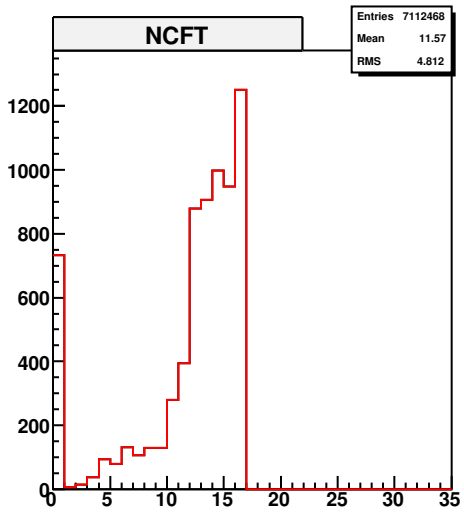

Z at DCA (0,0)
Entries 7112468
Mean -0.7111
RMS 30.07

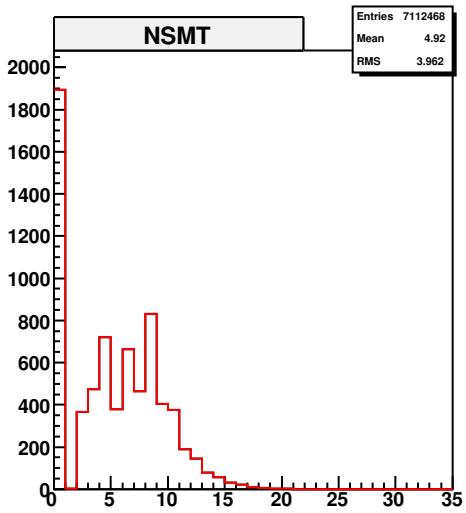

DCA (best vertex)
Entries 7112468
Mean 0.5945
RMS 24.47

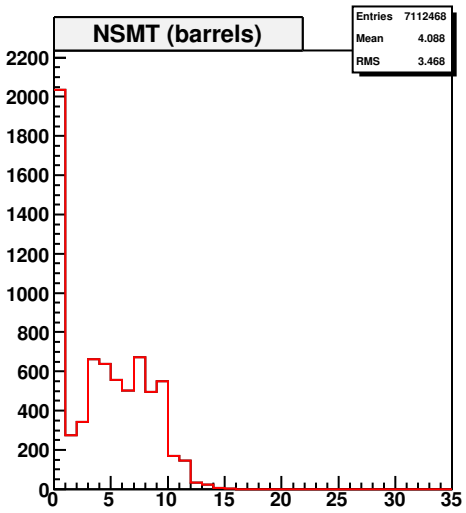

|DCA| (best vertex)
Entries 7112468
Mean 1.009
RMS 24.46

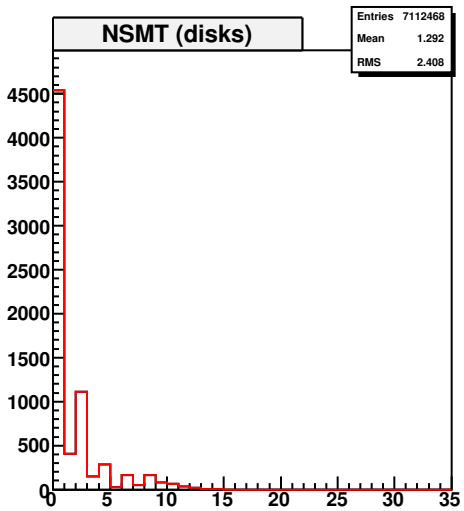

DCA pull (best vertex)
Entries 7112468
Mean -0.225
RMS 60.47

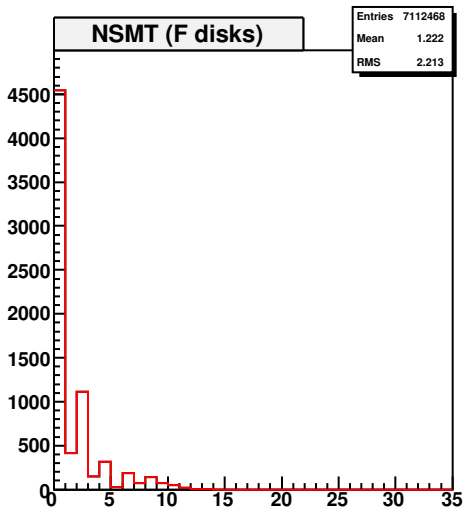
# Tracks (All)

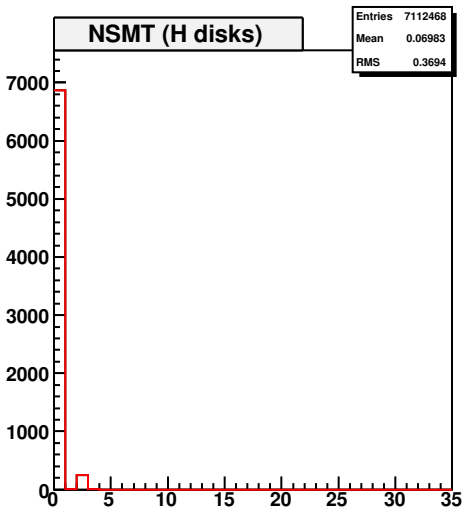


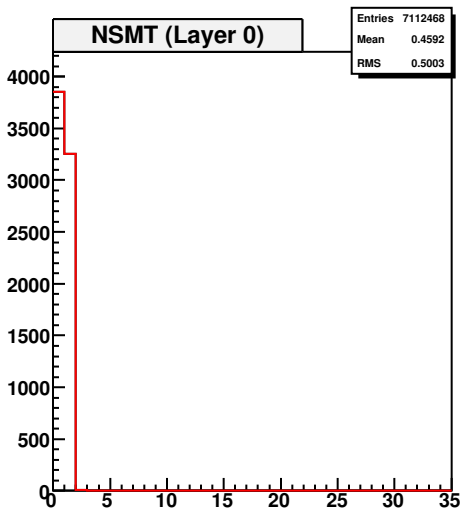



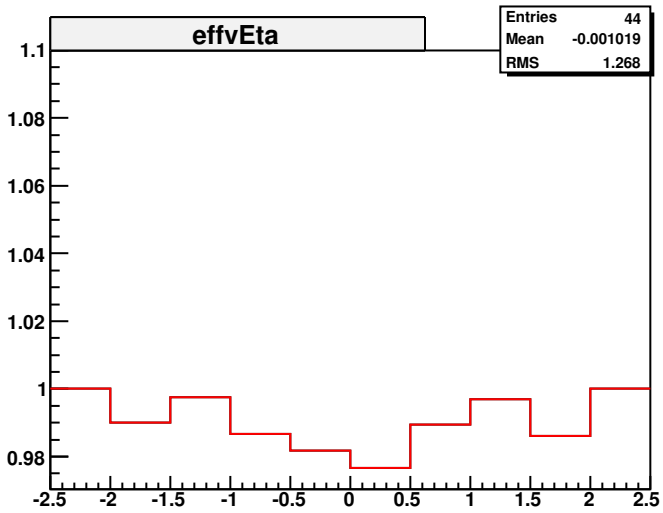



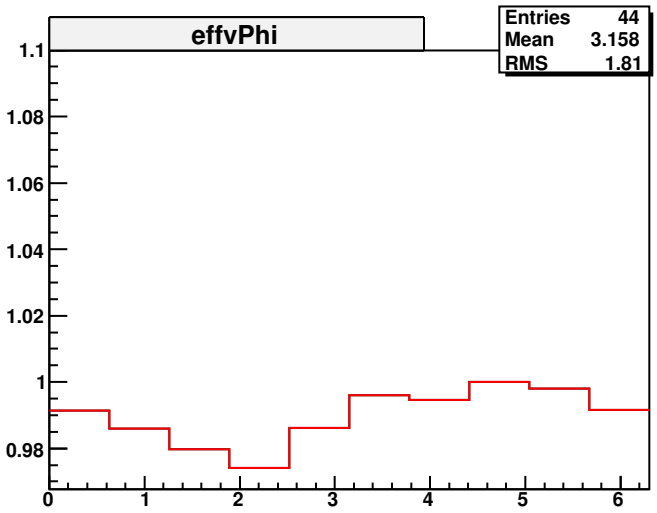



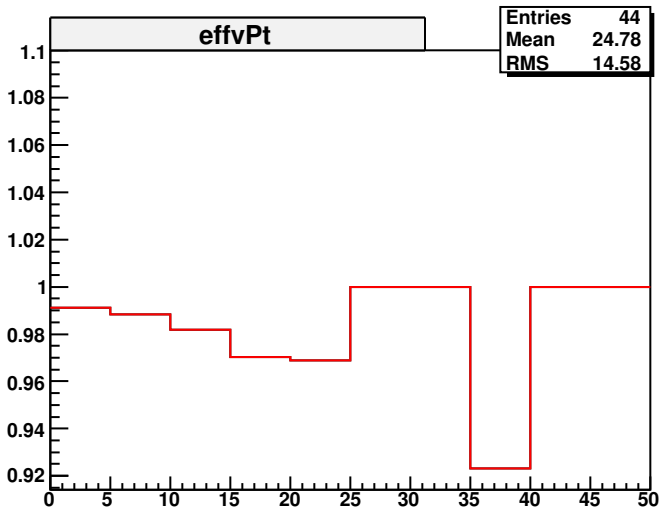



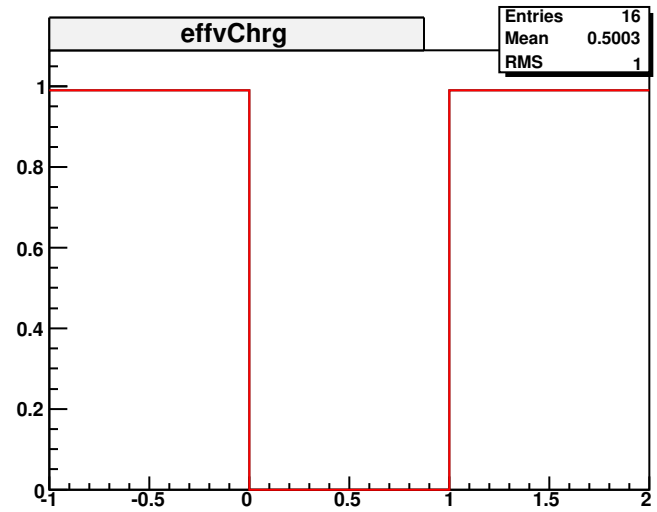



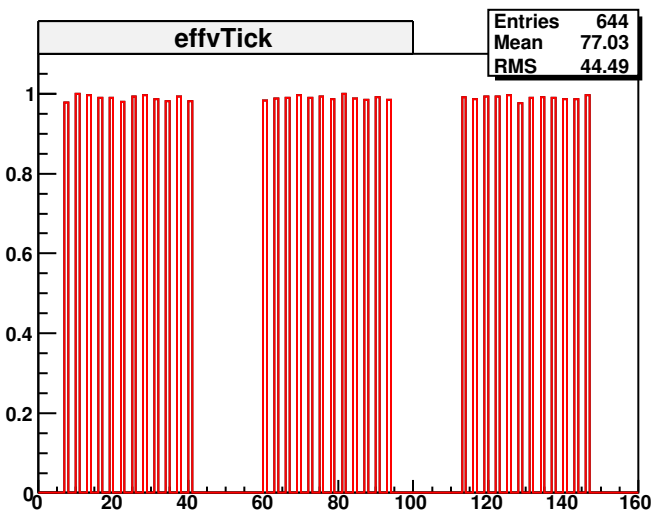

**Track Hits (All)**

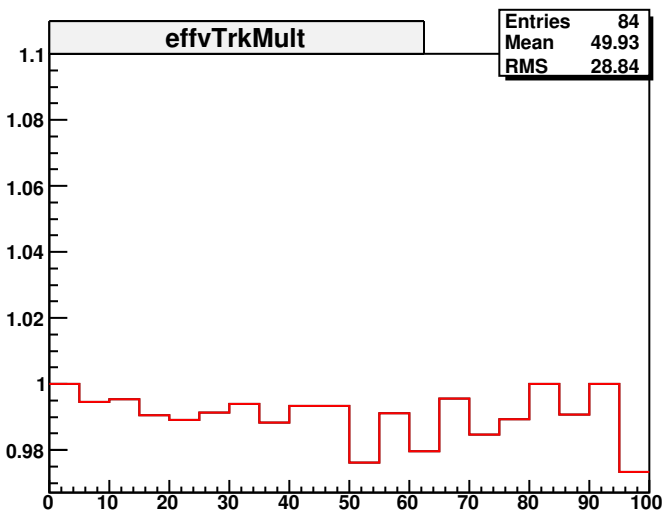


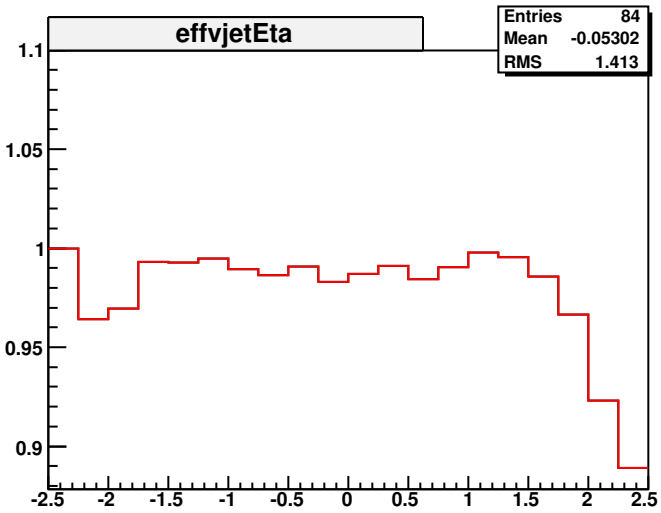



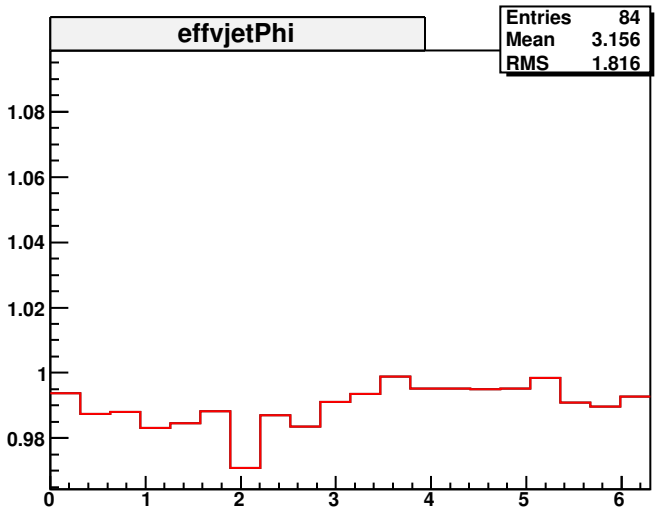



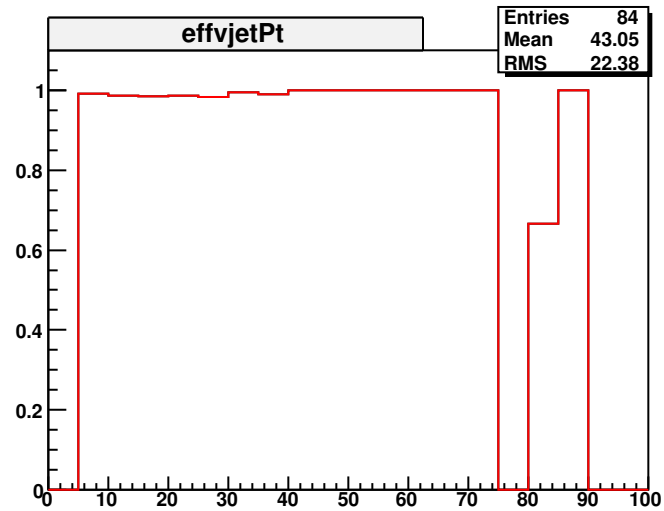



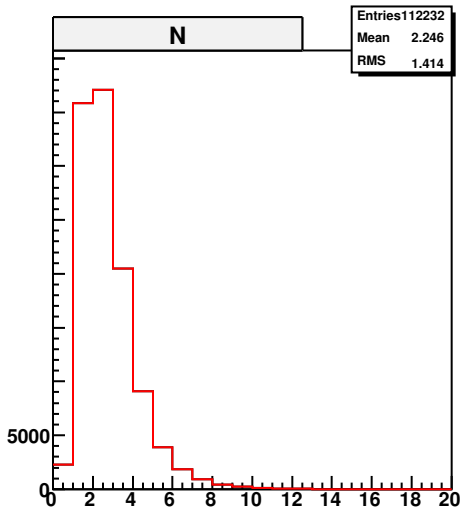

# Tracking (Efficiency-Isolated)

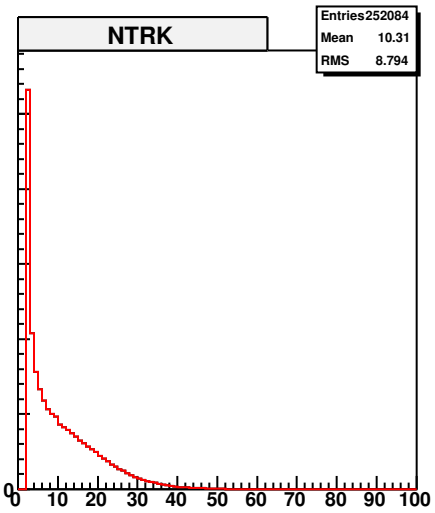


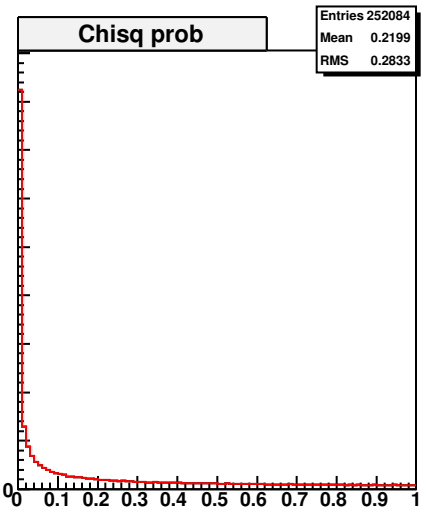



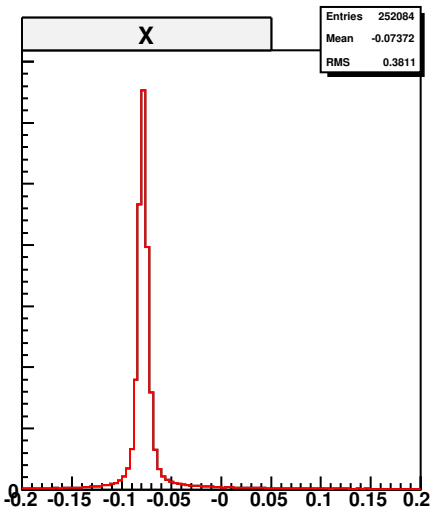



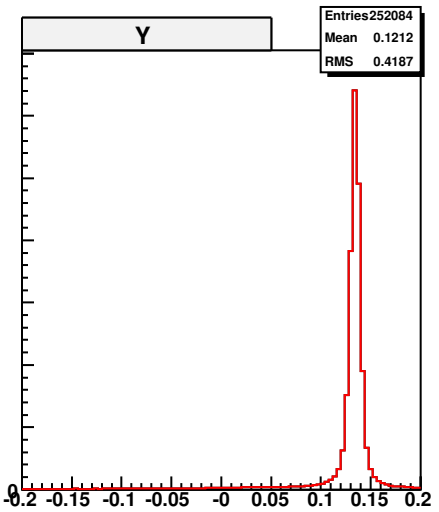

# Tracking (Efficiency-InJets)

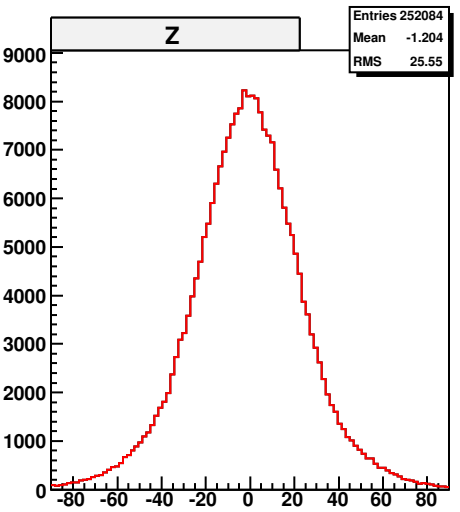


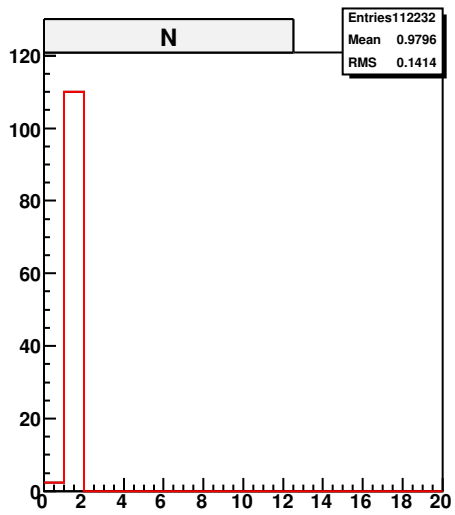



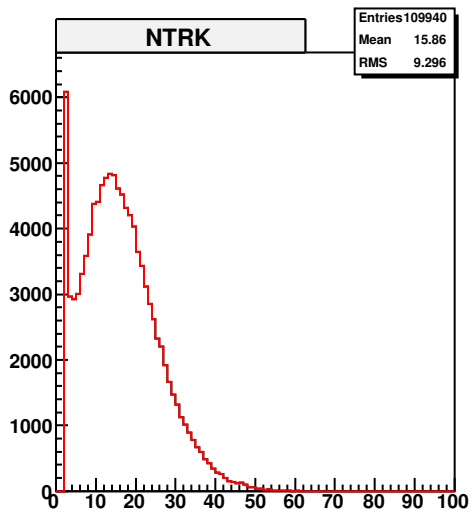



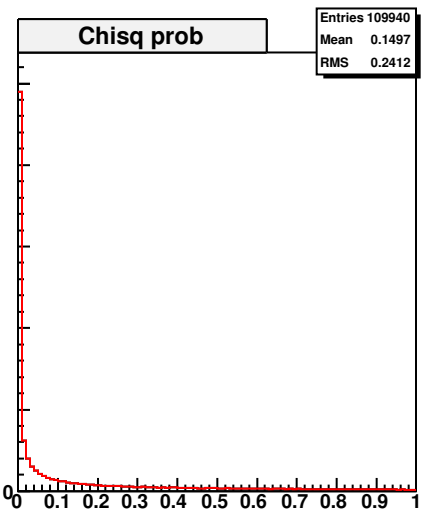



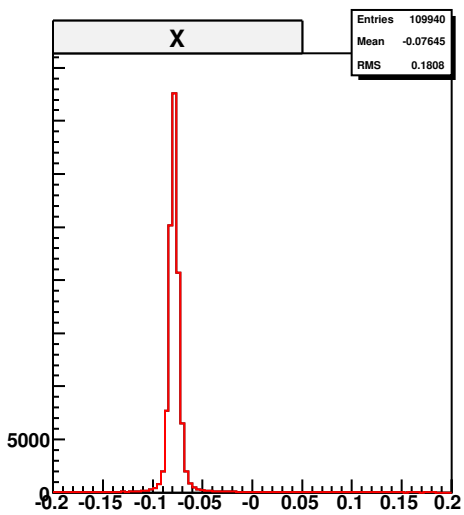



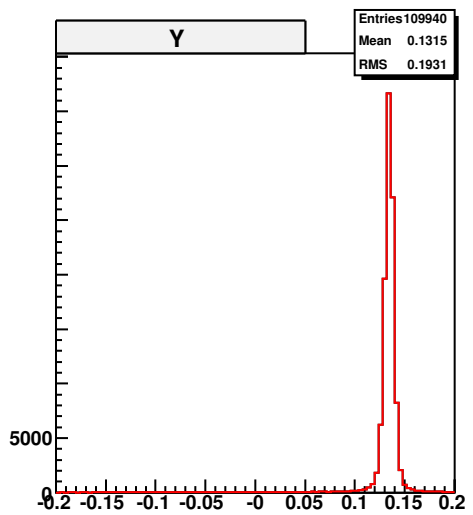

# Vertices (Primary - all candidates)

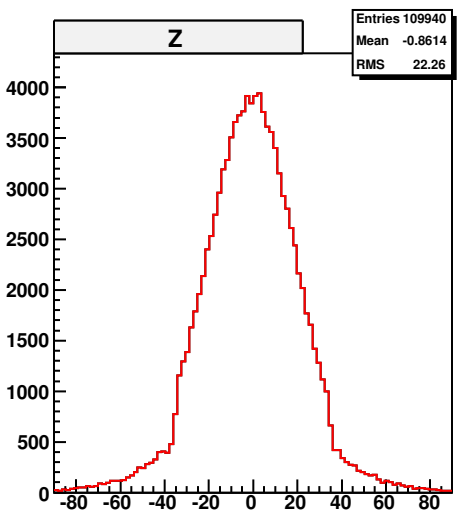


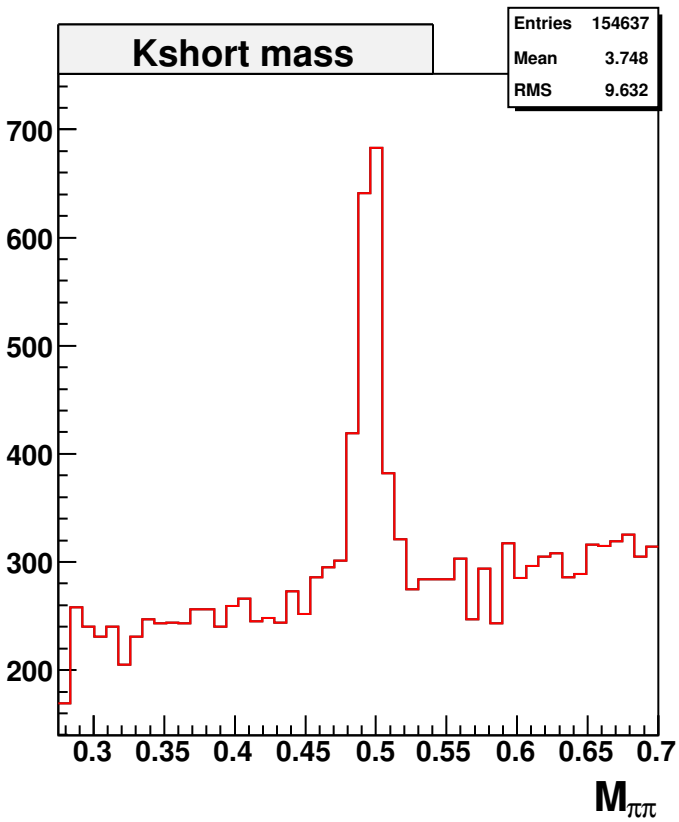



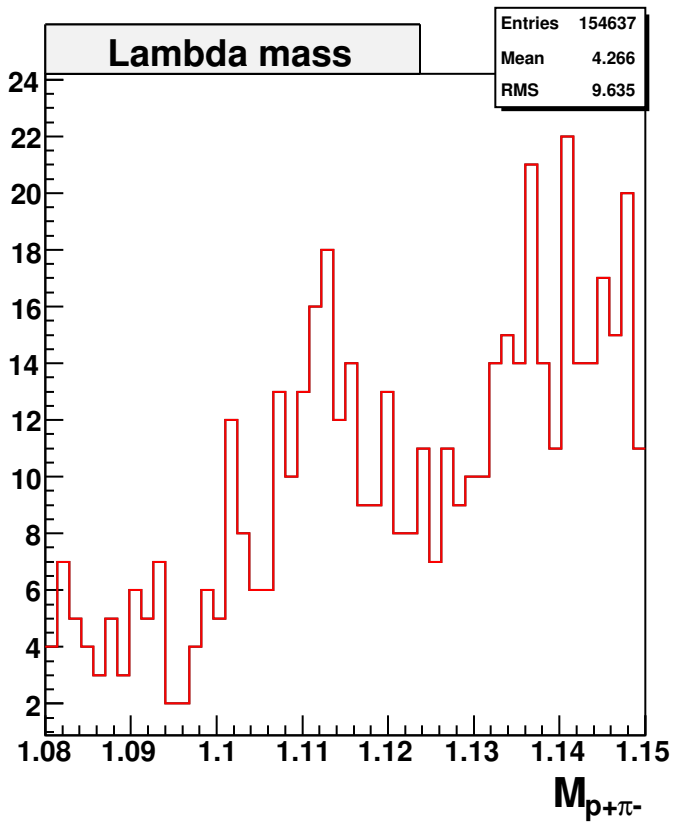



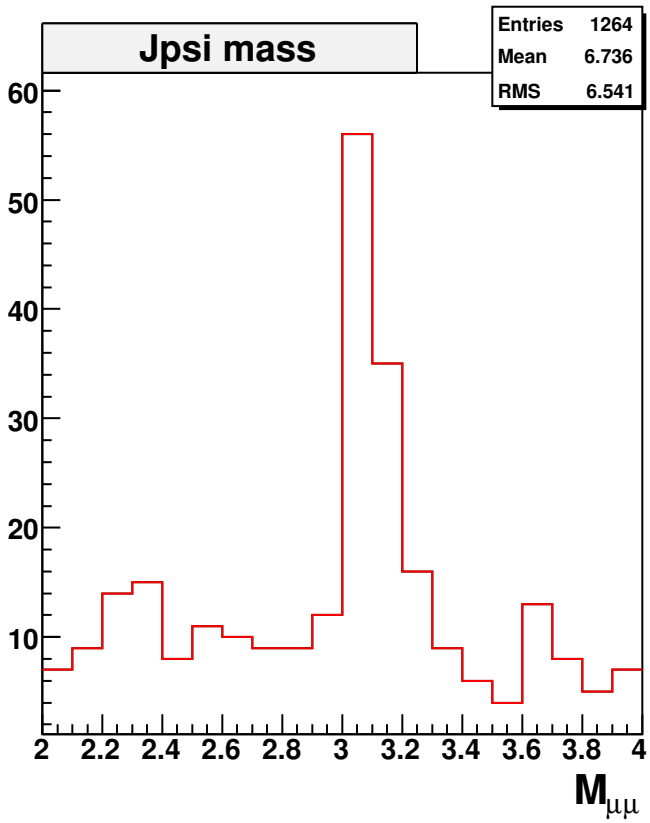



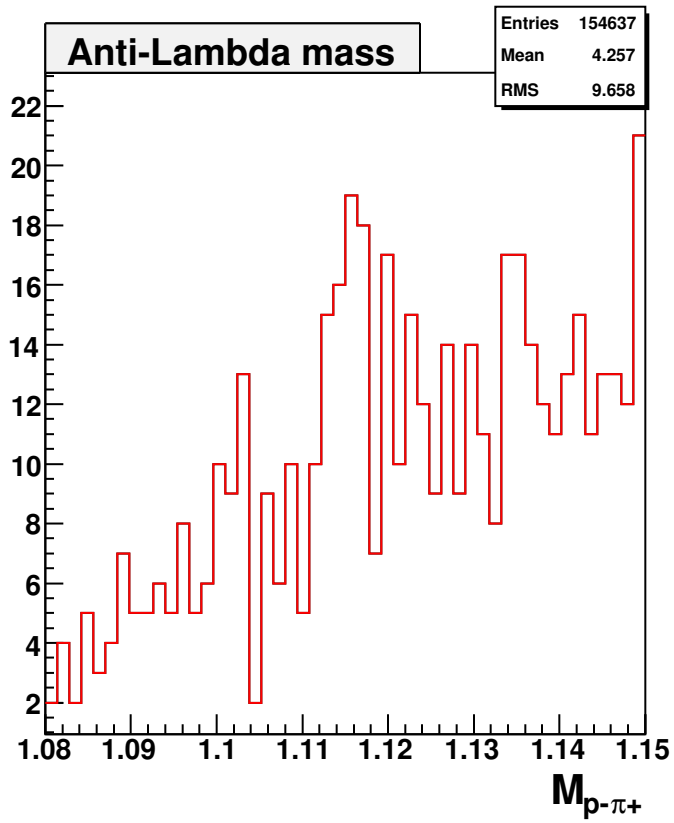




# Vertices (Primary - best)

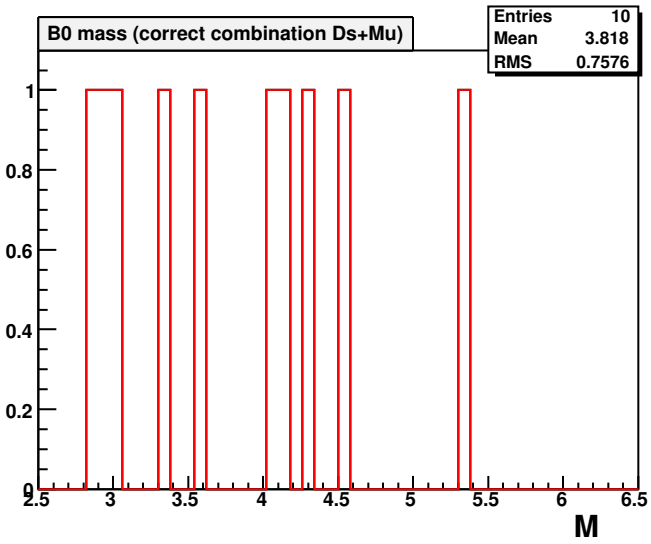

Kshort mass
Entries 154637
Mean 3.748
RMS 9.632
700
600
500
400
300
200
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

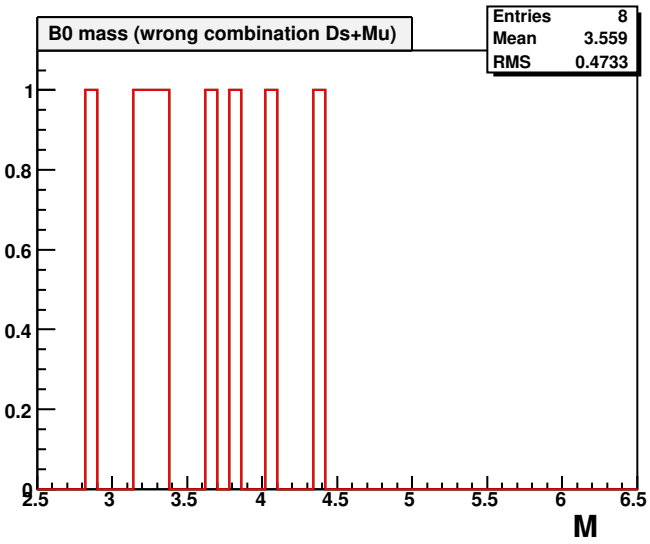

Lambda mass
Entries 154637
Mean 4.266
RMS 9.635
24
22
20
18
16
14
12
10
8
6
4
2
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

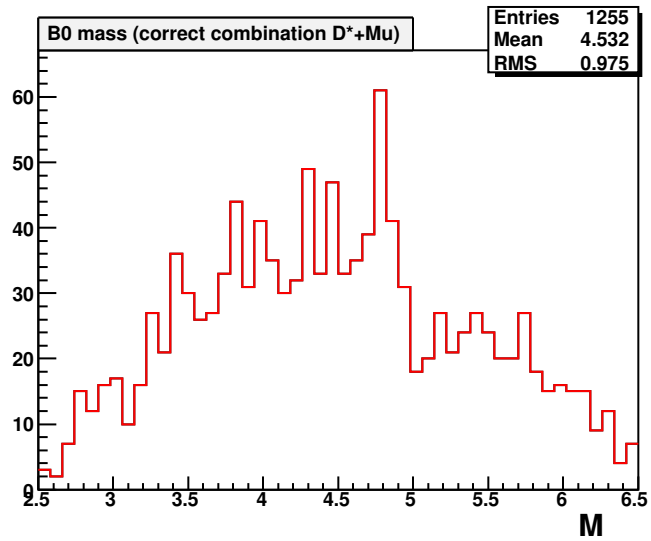

Jpsi mass
Entries 1264
Mean 6.736
RMS 6.541
60
50
40
30
20
10
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

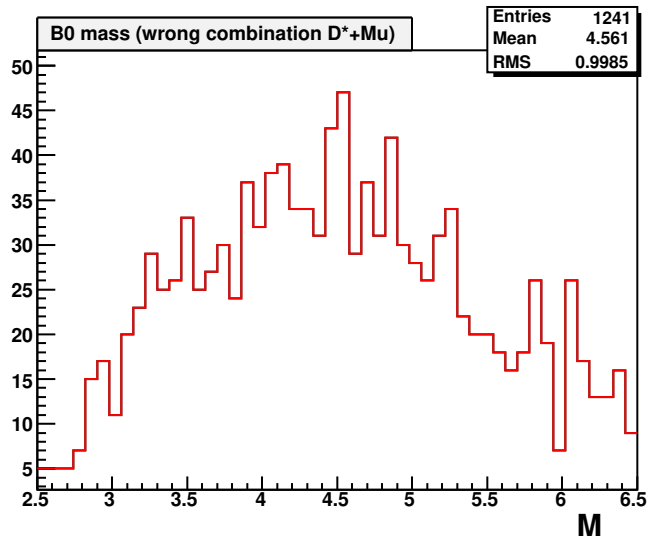

Anti-Lambda mass
Entries 154637
Mean 4.257
RMS 9.658
22
20
18
16
14
12
10
8
6
4
2
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

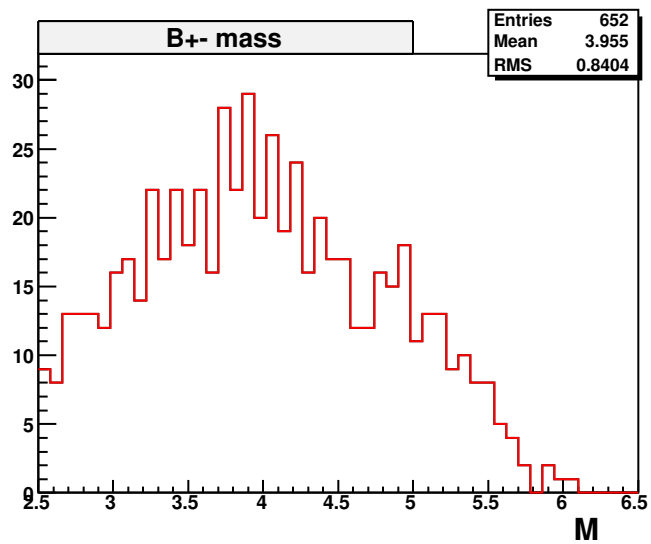
**V0 (All)**



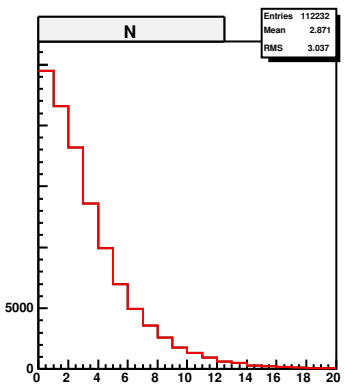



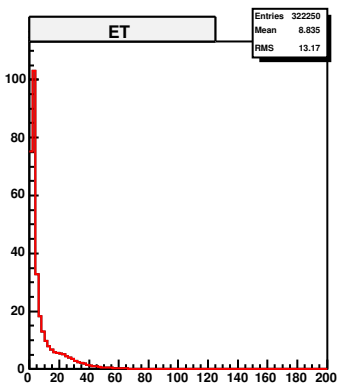



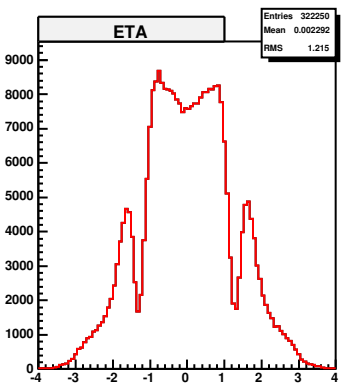



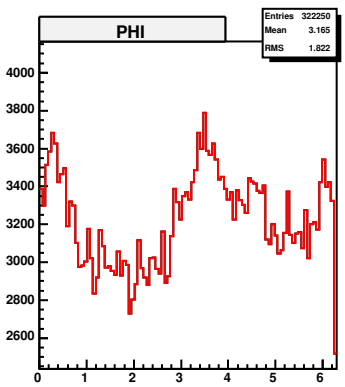



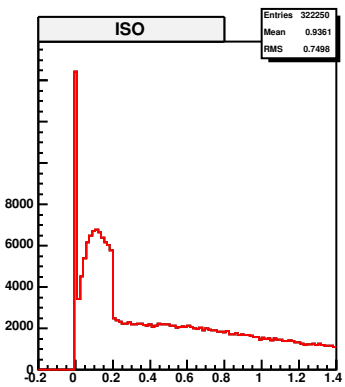

# V0(B mesons) (All)

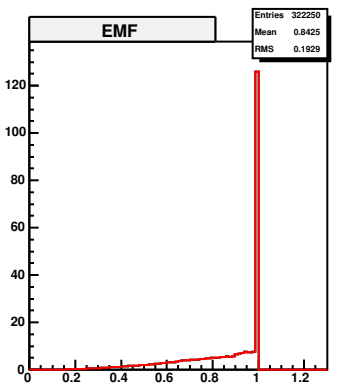


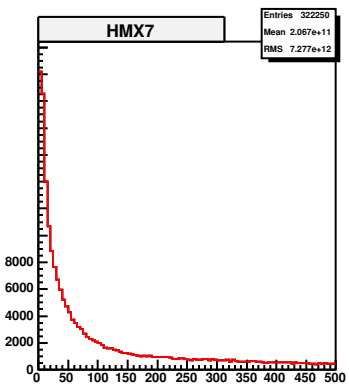



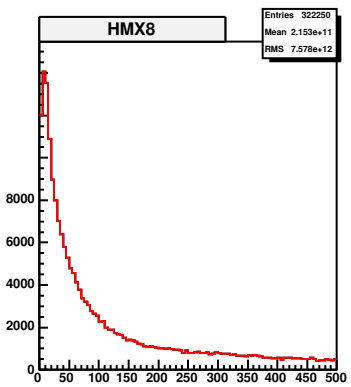



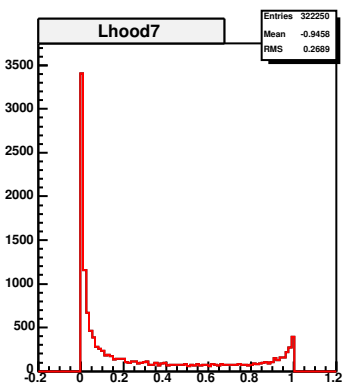



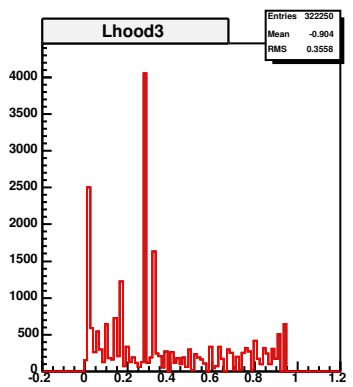



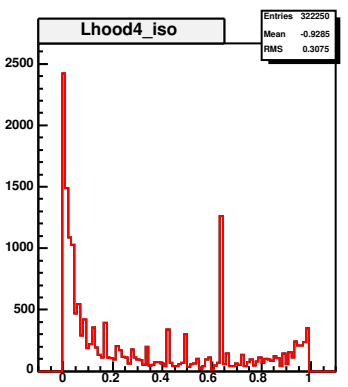



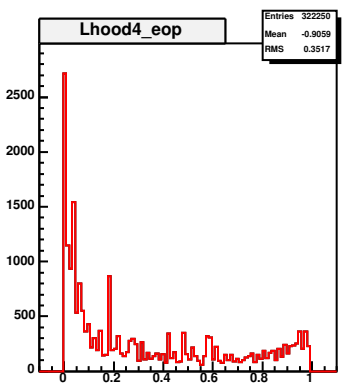



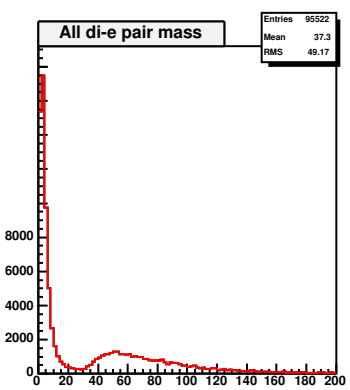



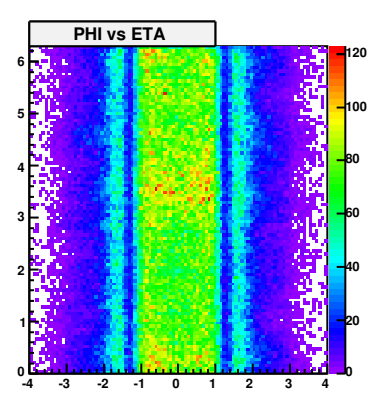



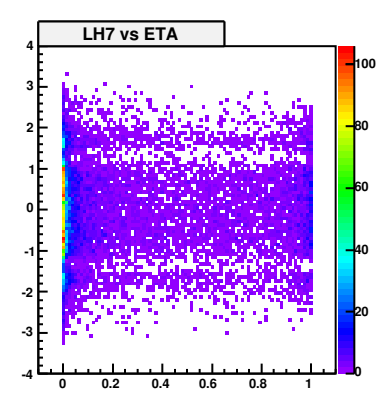



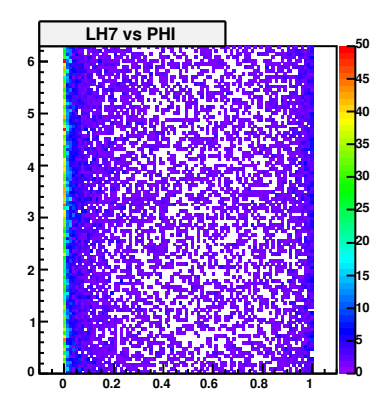



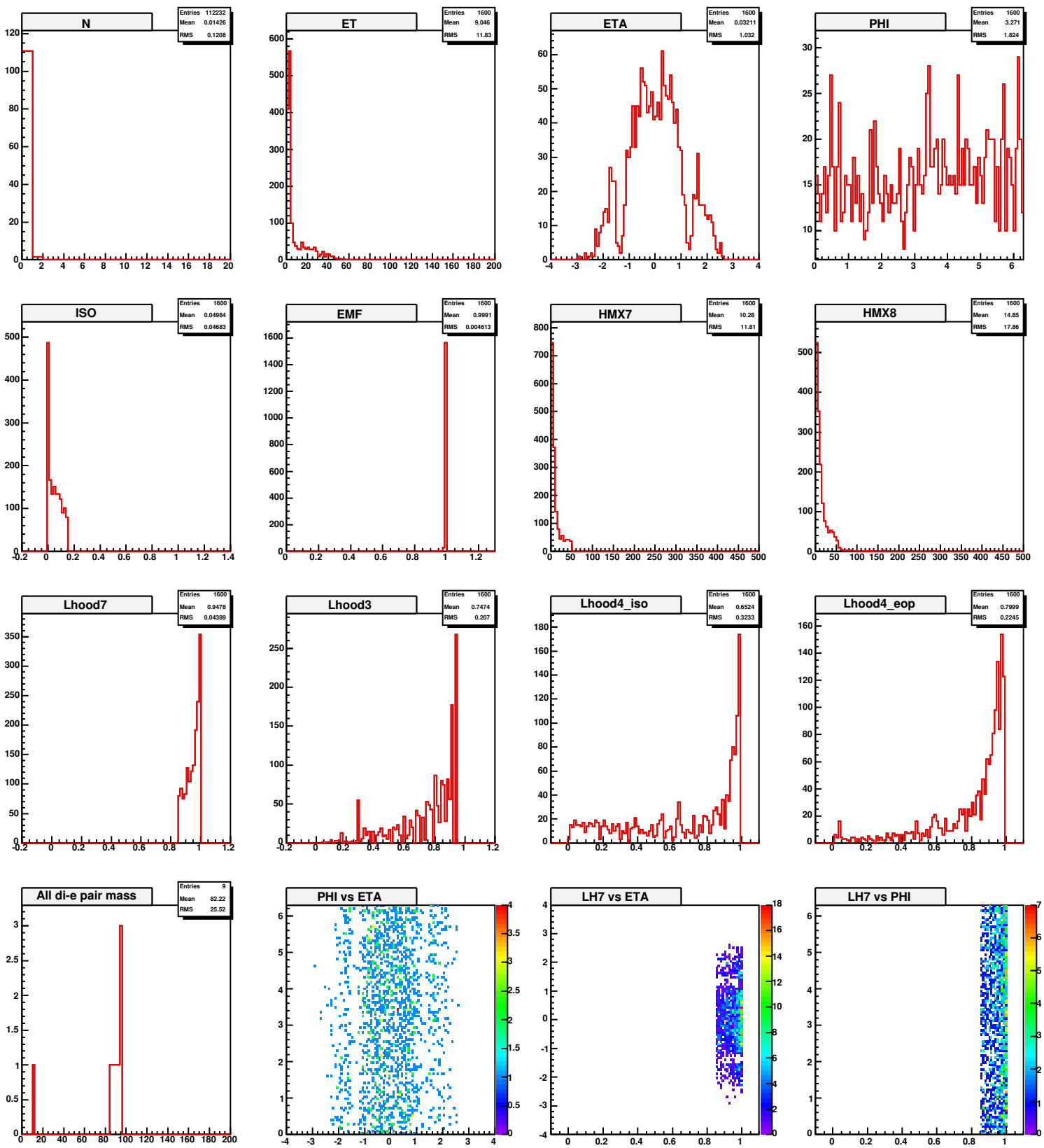



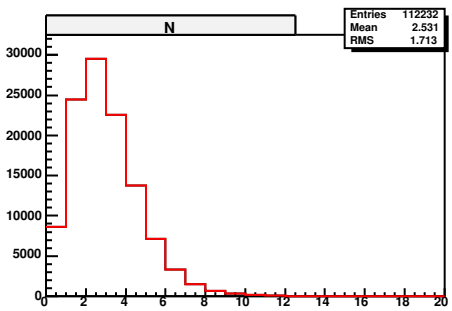



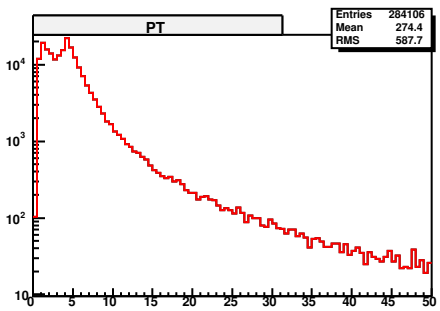



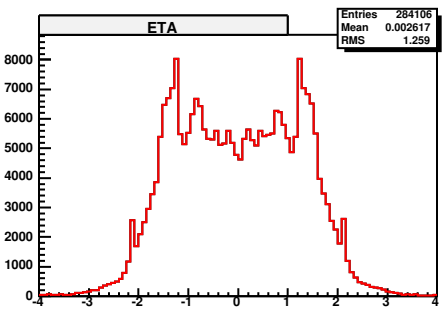

# Electrons (SCONE All)

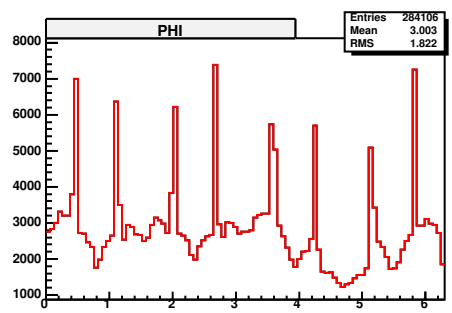


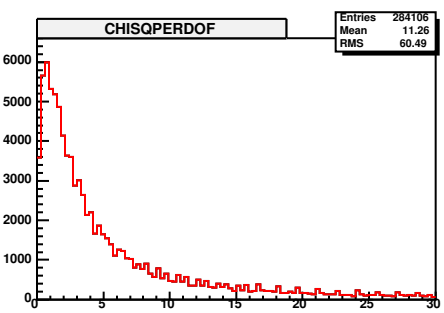

# Electrons (SCONE Tight)

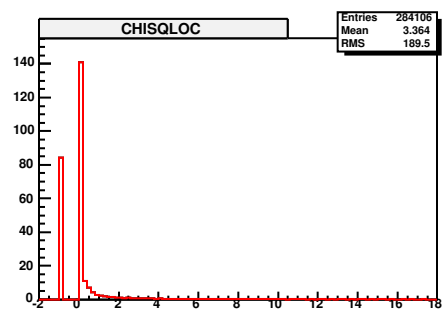

N
Entries 112232
Mean 2.531
RMS 1.713

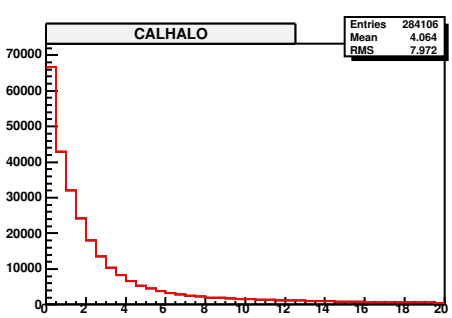

PT
Entries 284106
Mean 274.4
RMS 587.7

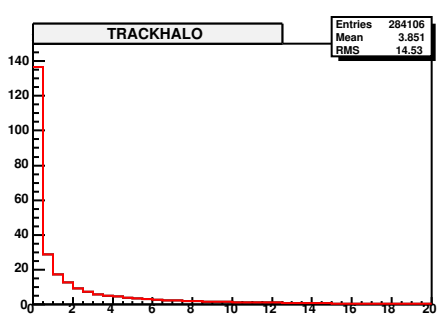

ETA
Entries 284106
Mean 0.002617
RMS 1.259

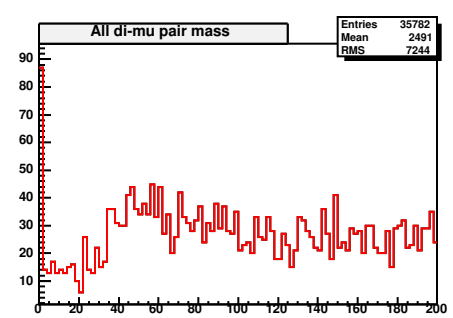

PHI
Entries 284106
Mean 3.003
RMS 1.822

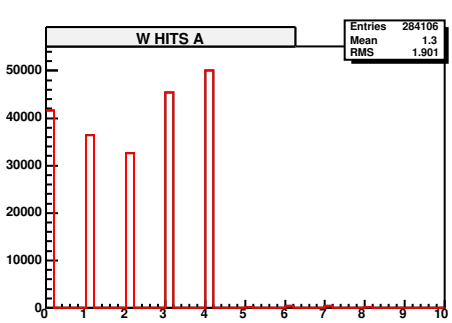

CHISQPERDOF
Entries 284106
Mean 11.26
RMS 60.49

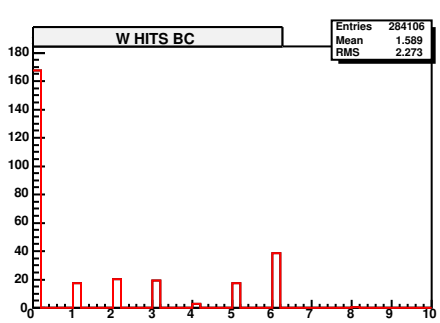

CHISQLOC
Entries 284106
Mean 3.364
RMS 189.5

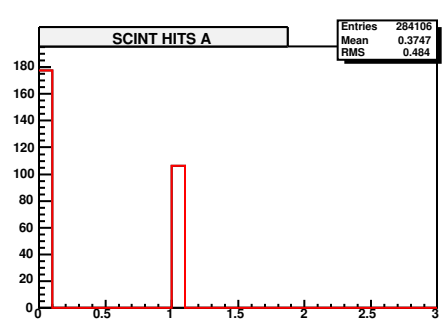

CALHALO
Entries 284106
Mean 4.064
RMS 7.972

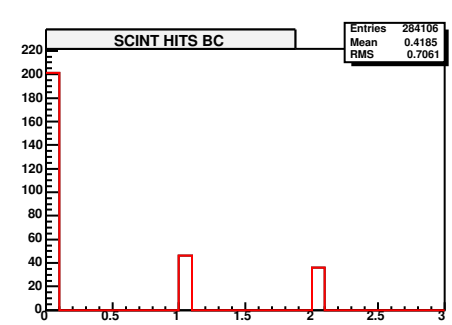

TRACKHALO
Entries 284106
Mean 3.851
RMS 14.53


All di-mu pair mass
Entries 35782
Mean 2491
RMS 7244

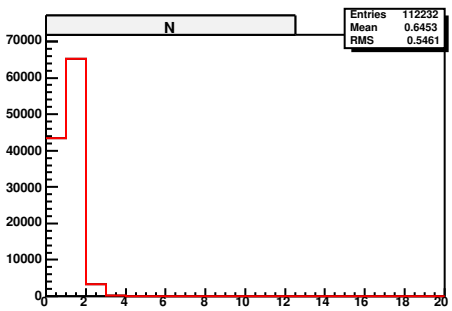

W HITS A
Entries 284106
Mean 1.3
RMS 1.901

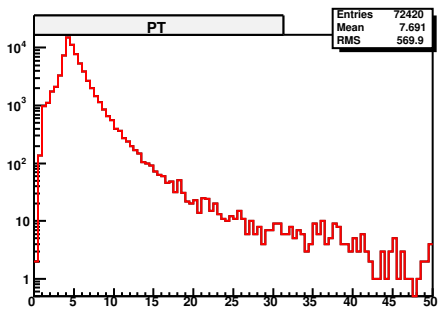

W HITS BC
Entries 284106
Mean 1.589
RMS 2.273

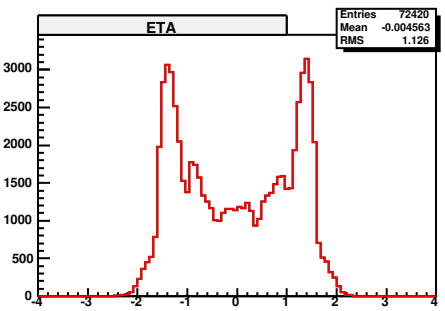

SCINT HITS A
Entries 284106
Mean 0.3747
RMS 0.484

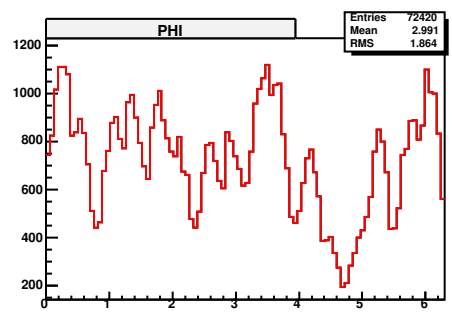

SCINT HITS BC
Entries 284106
Mean 0.4185
RMS 0.7061

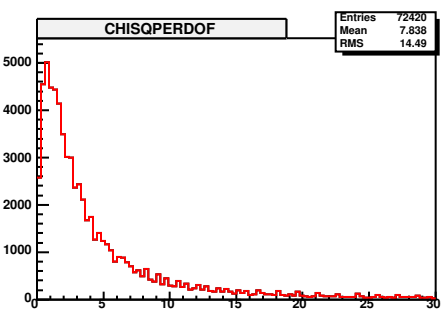
# Muons (All)

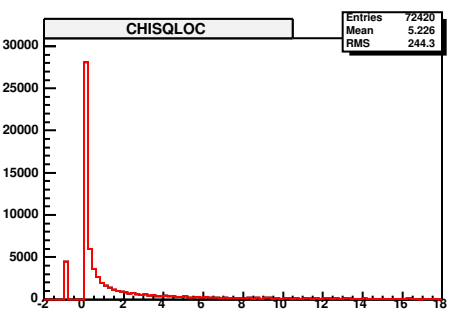


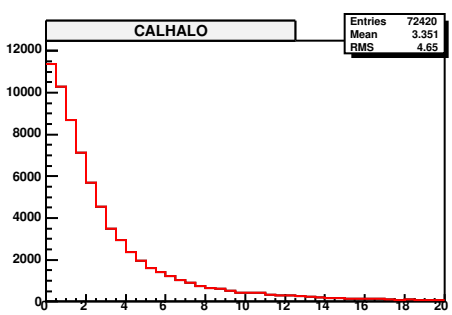



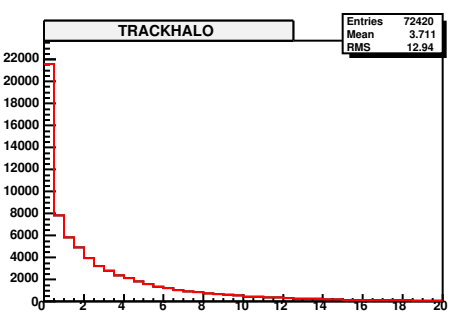



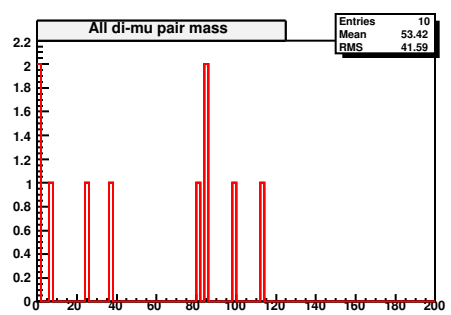



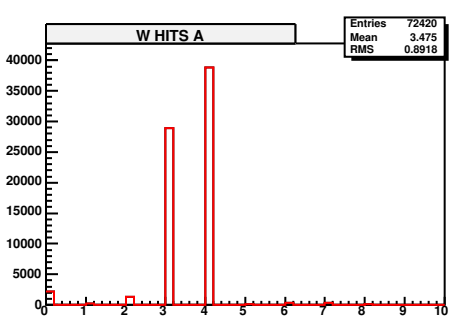



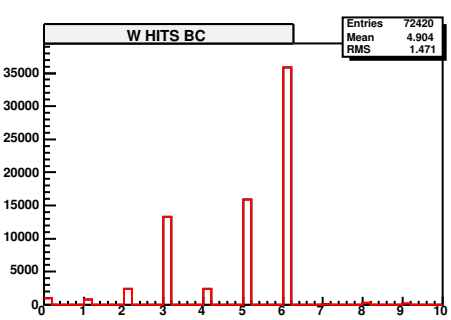



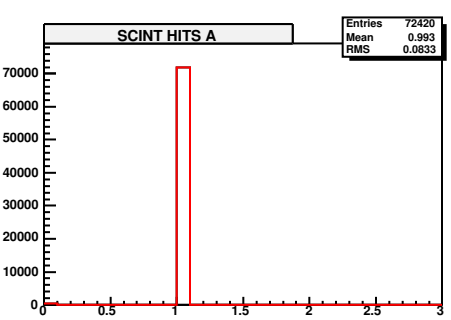



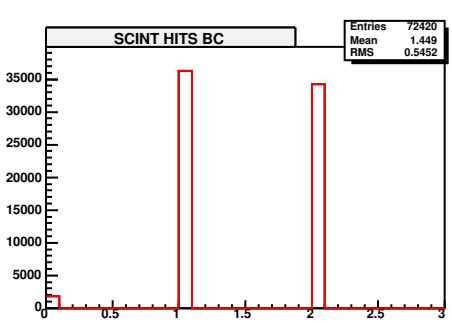



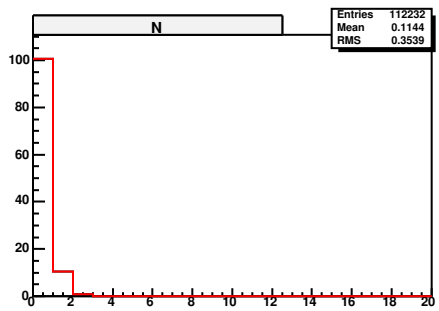



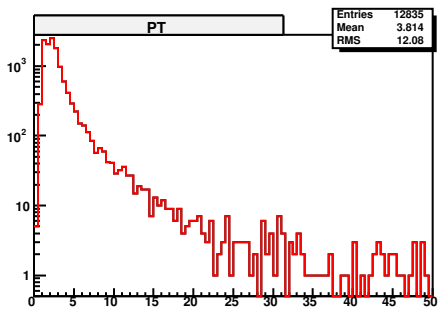



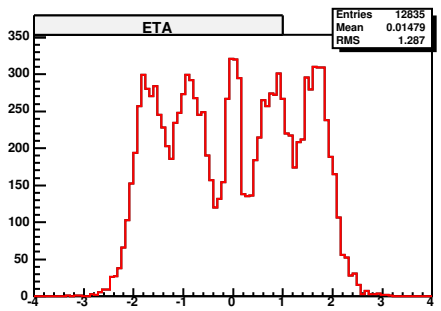



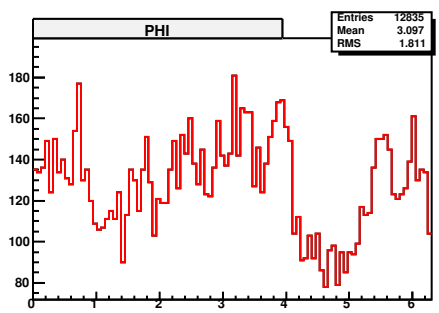



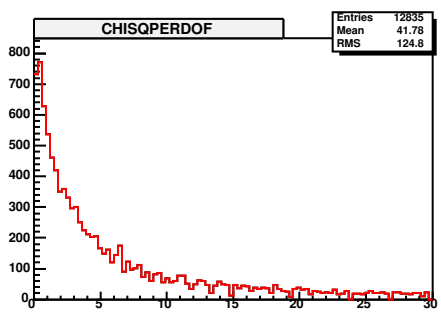

# Muons (Matched)

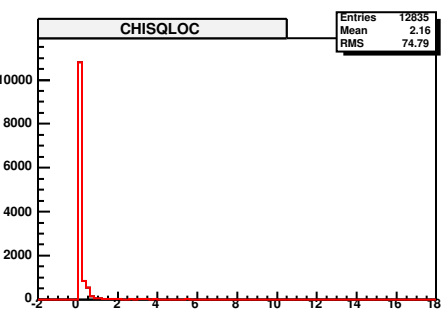

N
Entries 112232
Mean 0.1144
RMS 0.3539

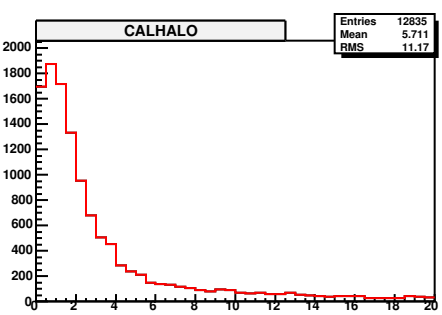

PT
Entries 12835
Mean 3.814
RMS 12.08

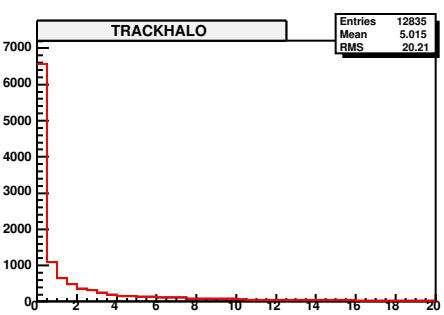

ETA
Entries 12835
Mean 0.01479
RMS 1.287

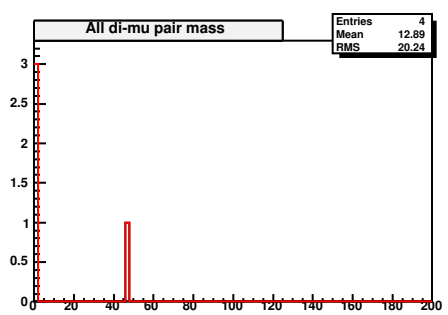

PHI
Entries 12835
Mean 3.097
RMS 1.811

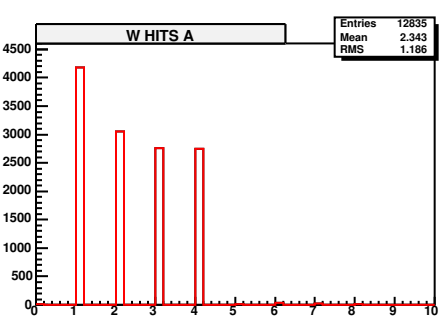

CHISQPERDOF
Entries 12835
Mean 41.78
RMS 124.8

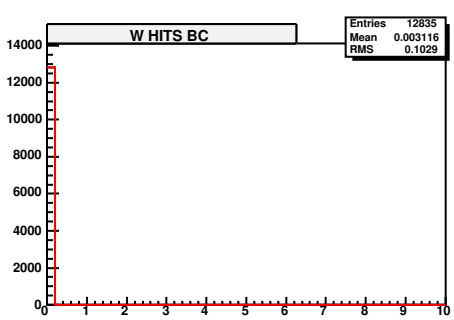

CHISQLOC
Entries 12835
Mean 2.16
RMS 74.79

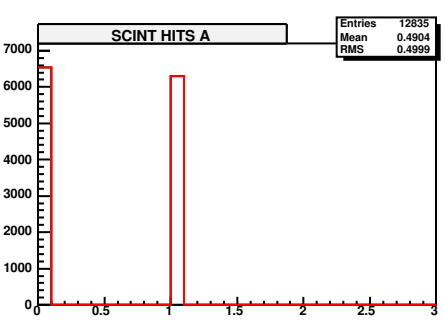

CALHALO
Entries 12835
Mean 5.711
RMS 11.17

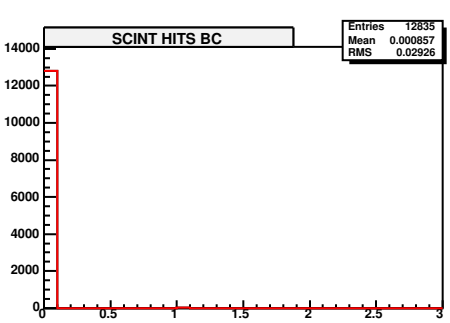

TRACKHALO
Entries 12835
Mean 5.015
RMS 20.21


All di-mu pair mass
Entries 4
Mean 12.89
RMS 20.24

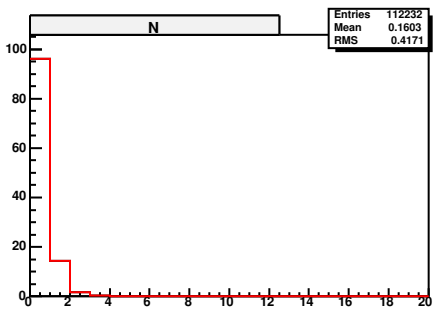

W HITS A
Entries 12835
Mean 2.343
RMS 1.186

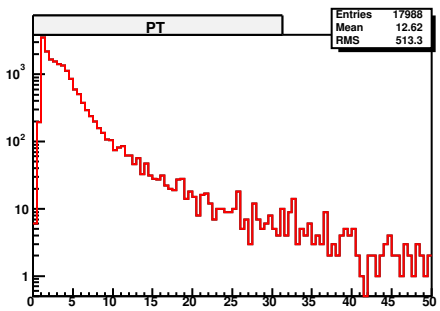

W HITS BC
Entries 12835
Mean 0.003116
RMS 0.1029

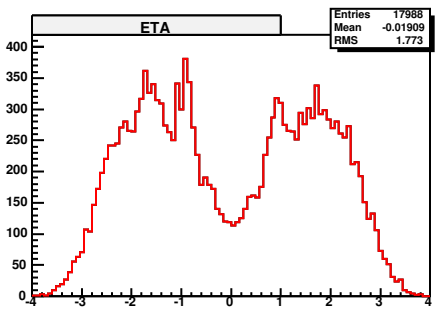

SCINT HITS A
Entries 12835
Mean 0.4904
RMS 0.4999

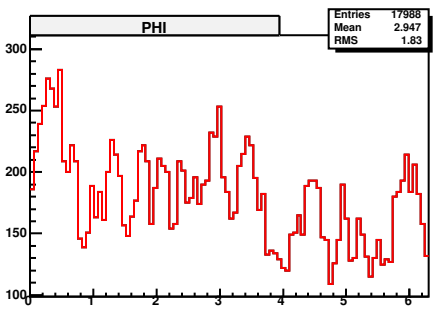

SCINT HITS BC
Entries 12835
Mean 0.000857
RMS 0.02926

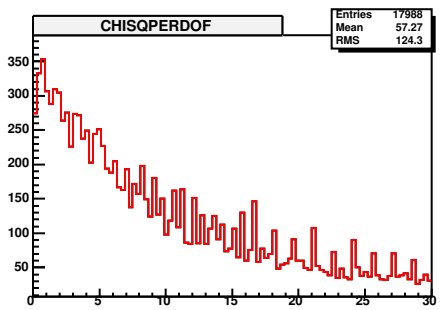
# Muons (Astub)

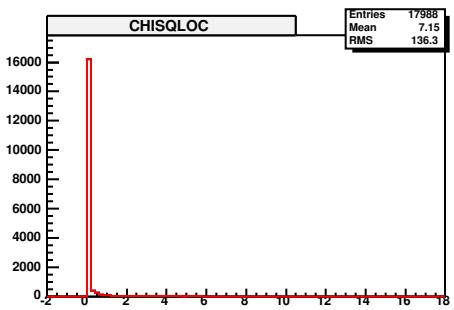


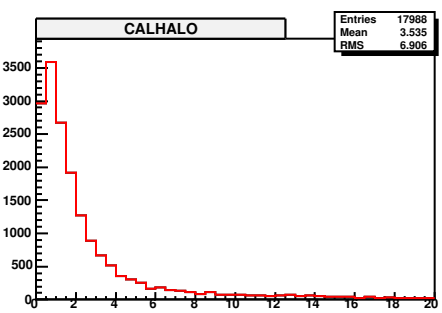



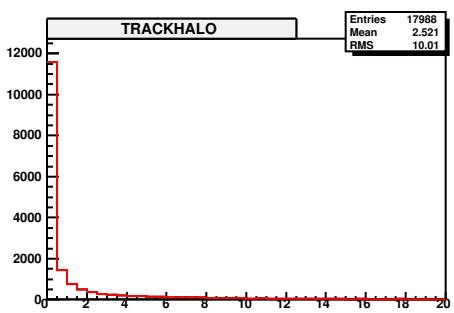



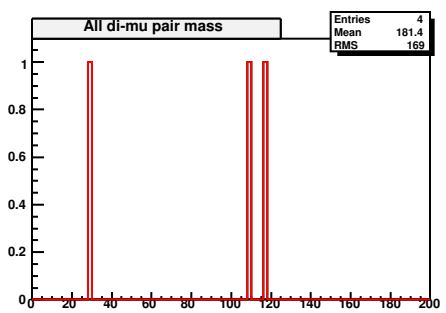



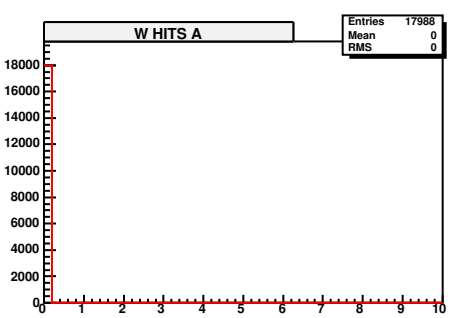



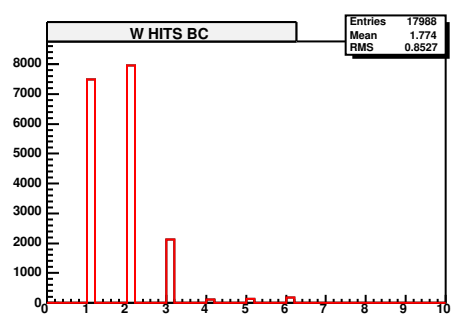



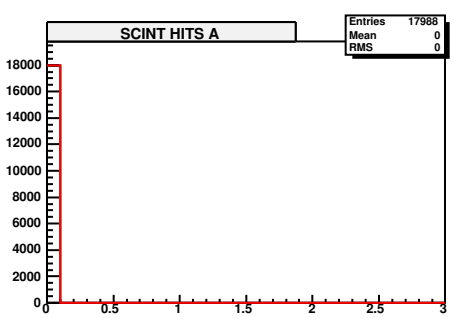



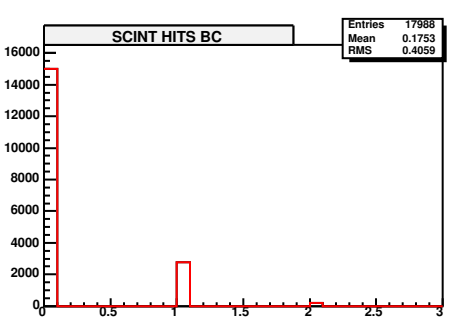



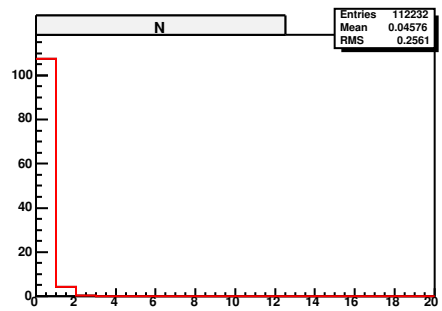



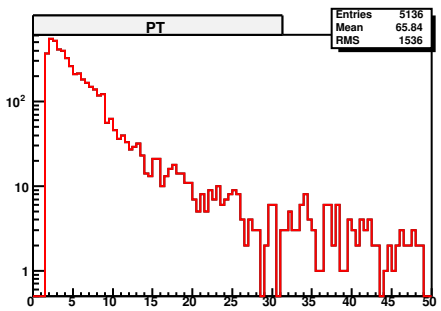



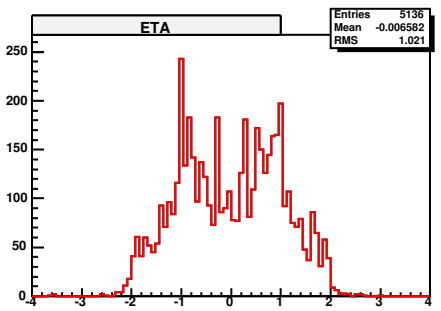



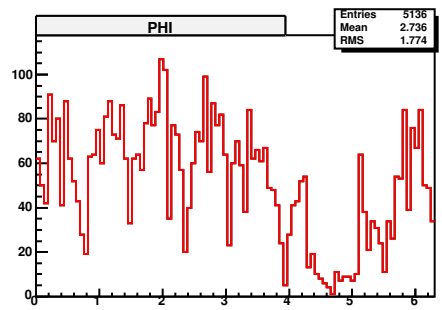



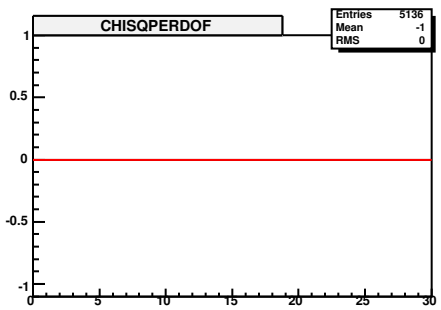

# Muons (BCstub)

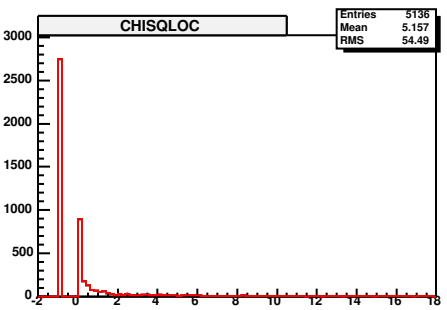


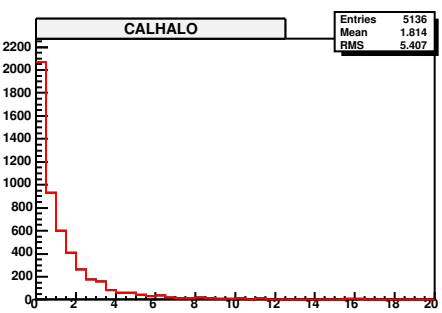



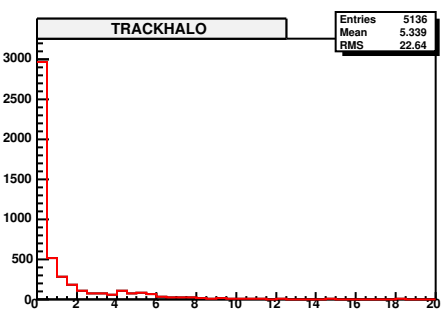



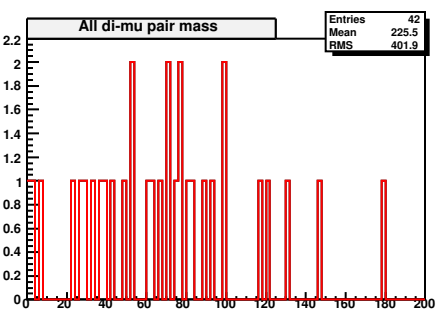



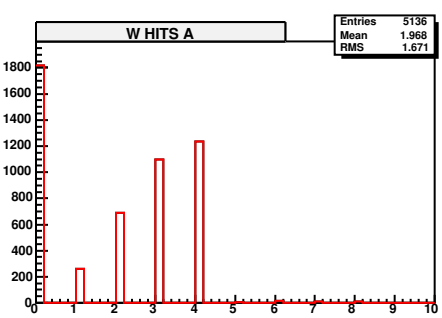



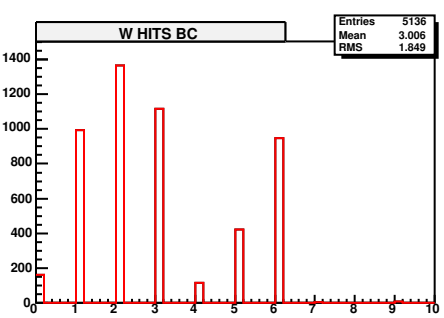



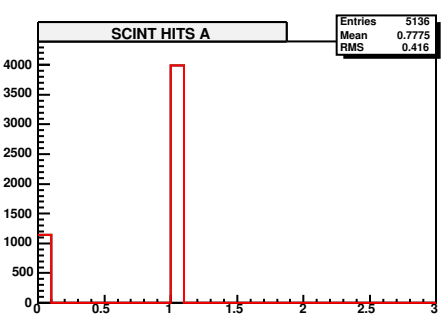



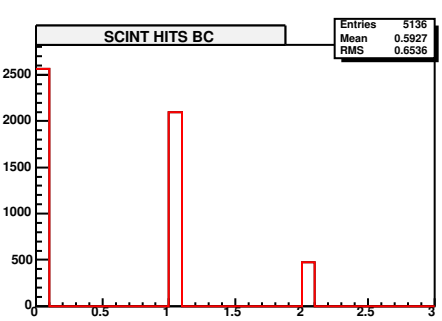



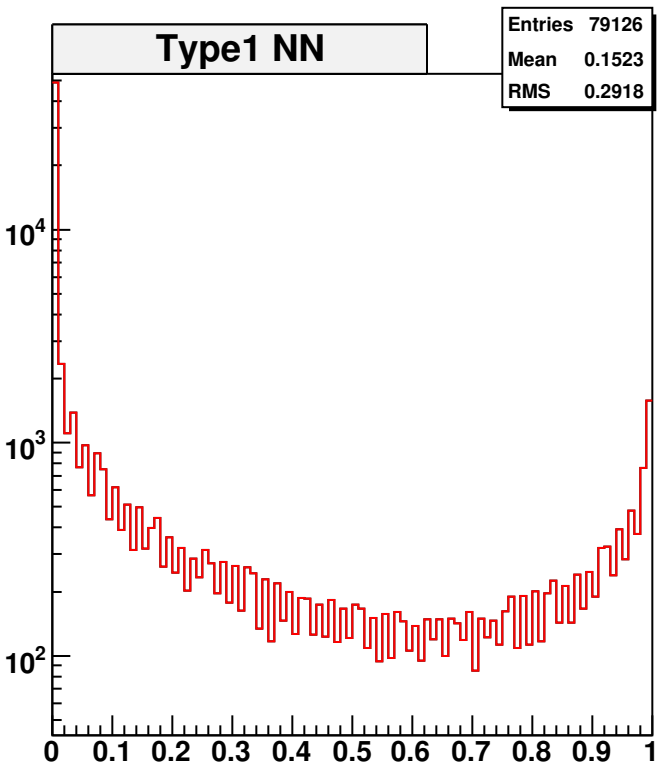



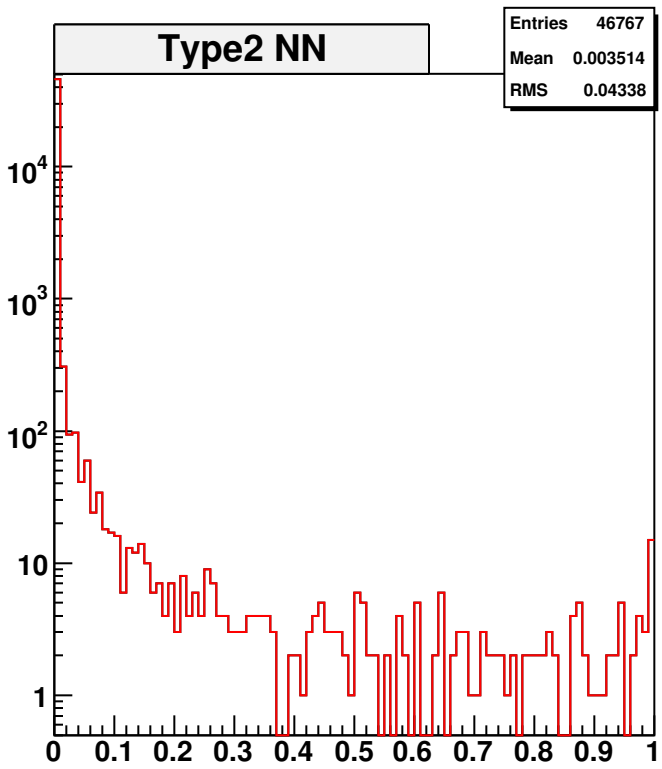



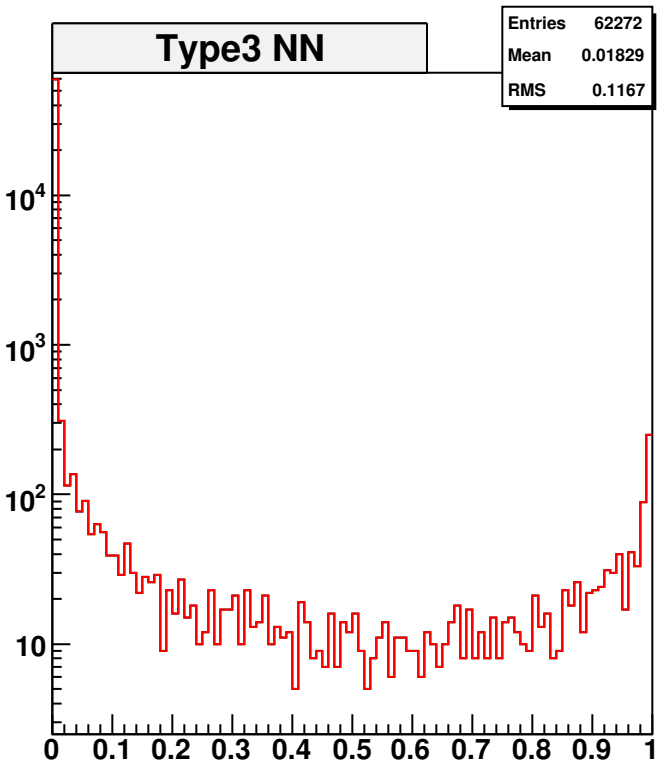



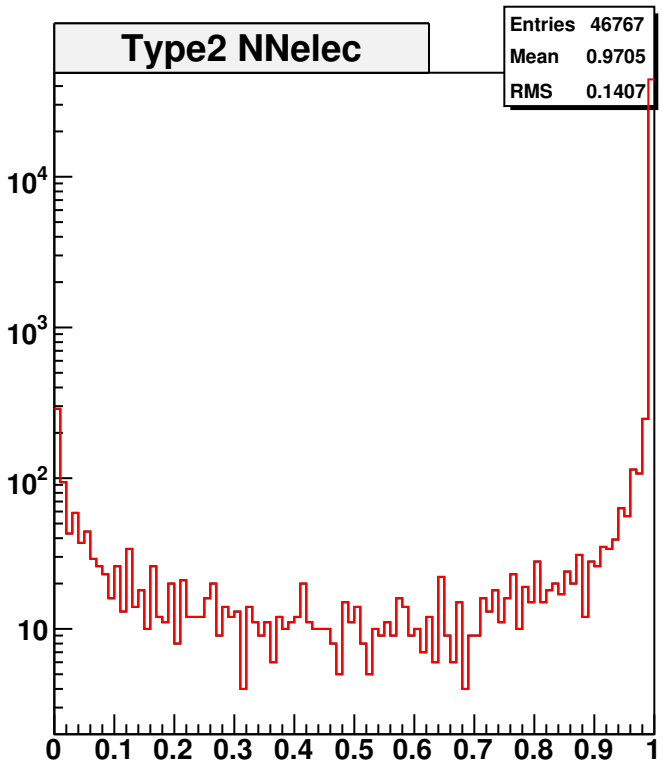




# Muons (Unmatched)

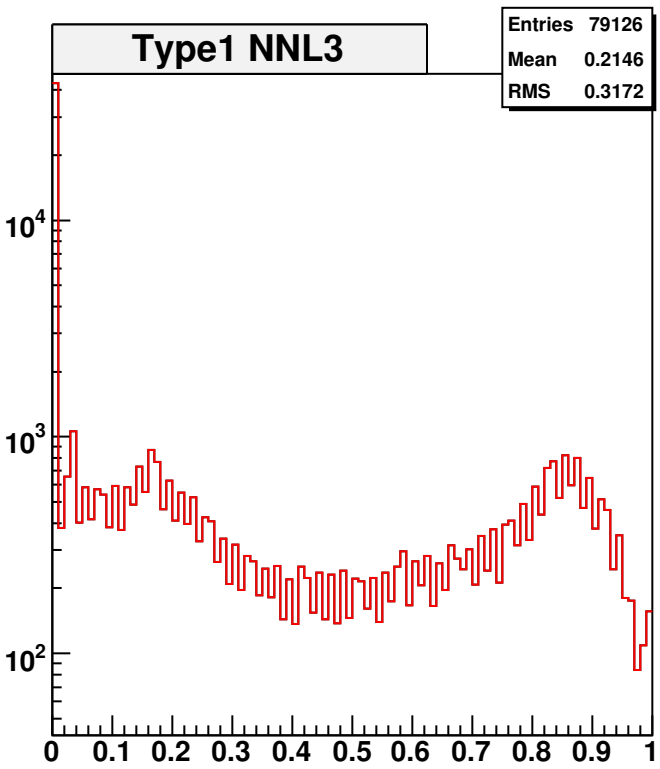


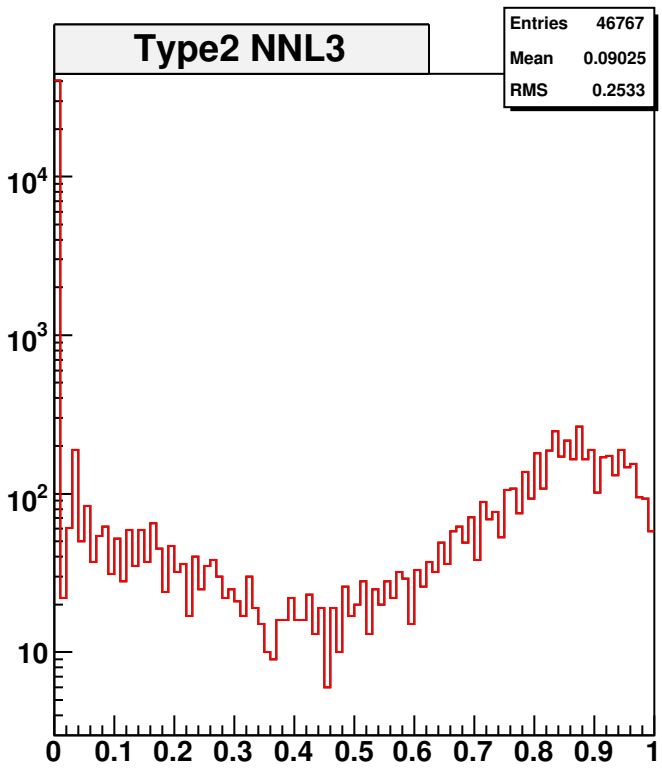



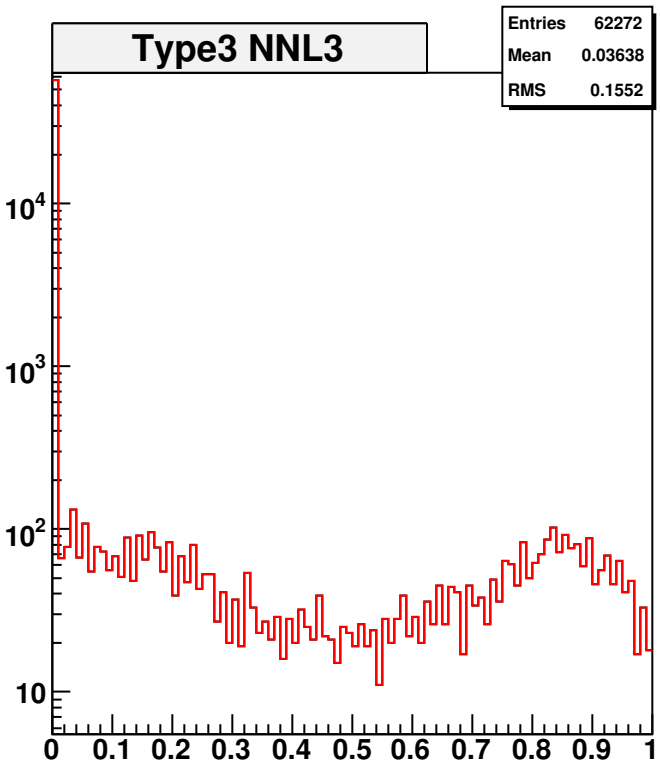



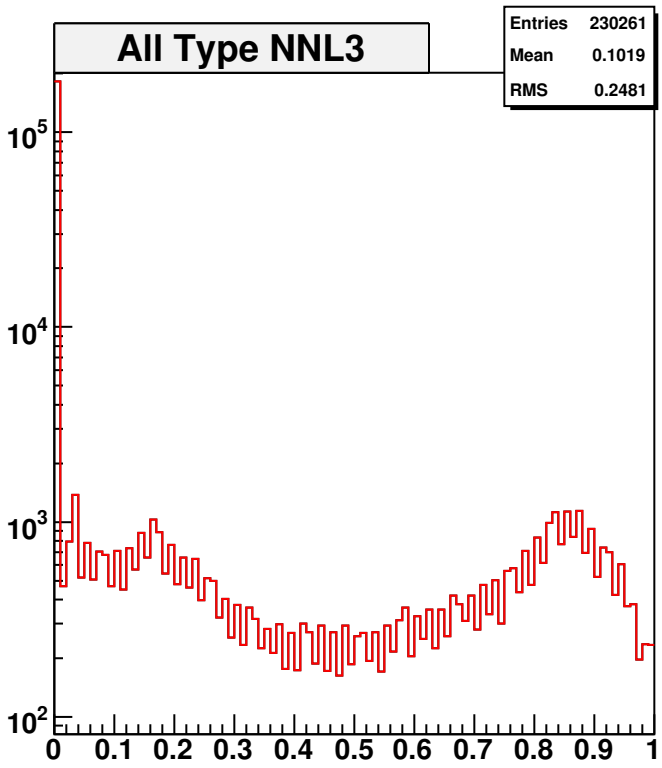




**Taus NN (TAU All)**

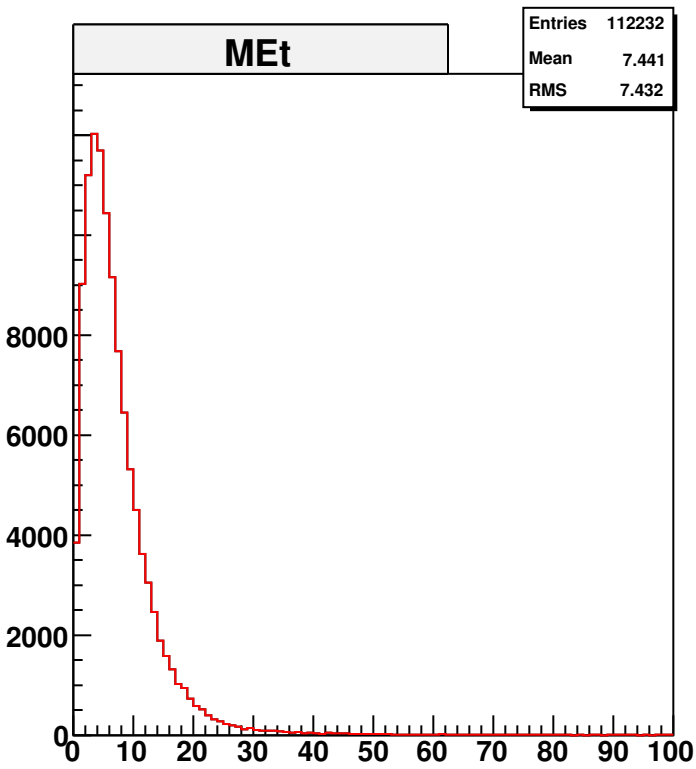



**Taus NNL3 (TAU All)**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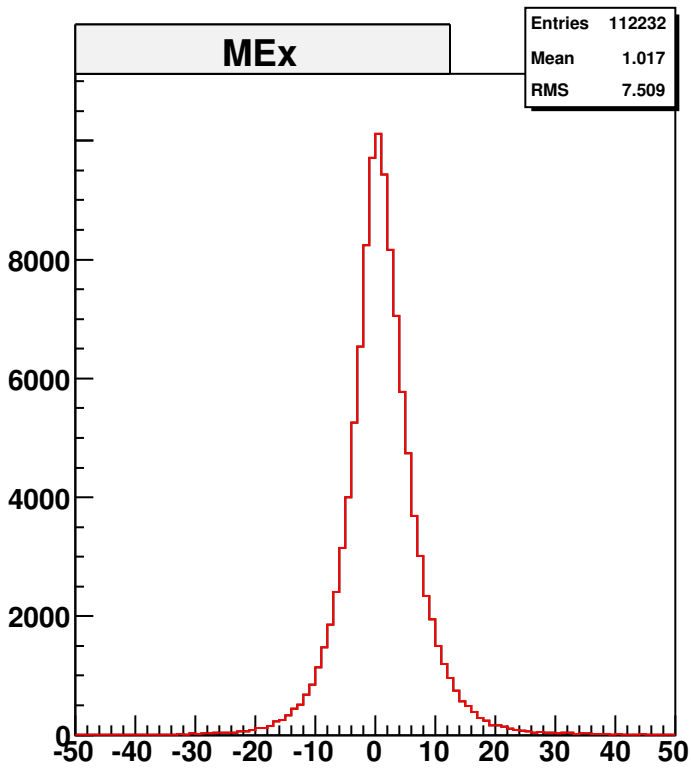
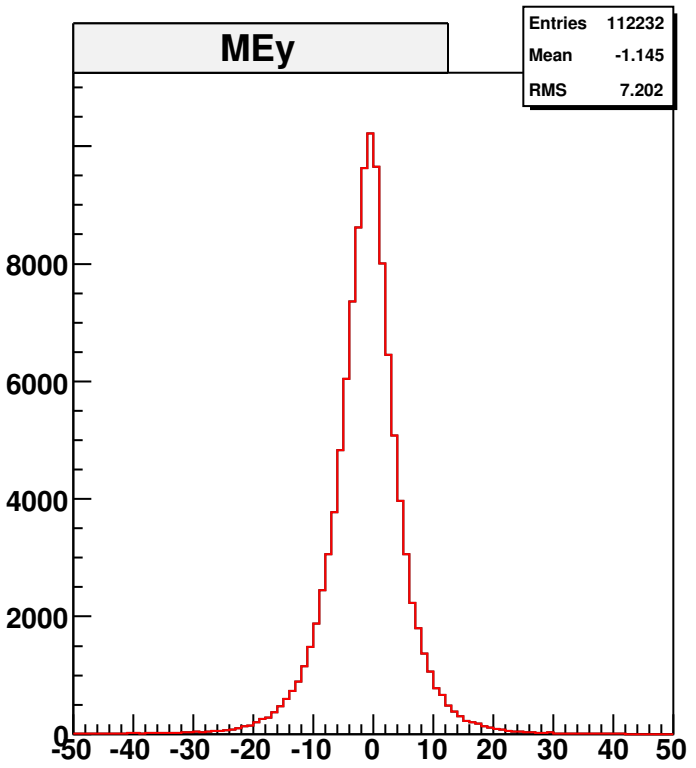
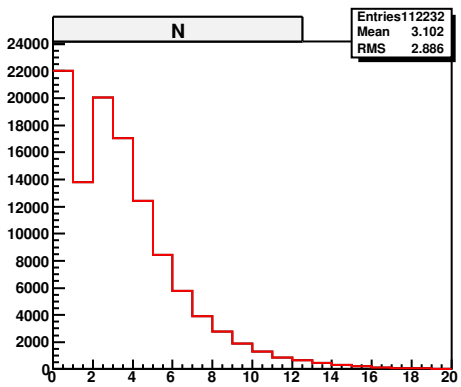
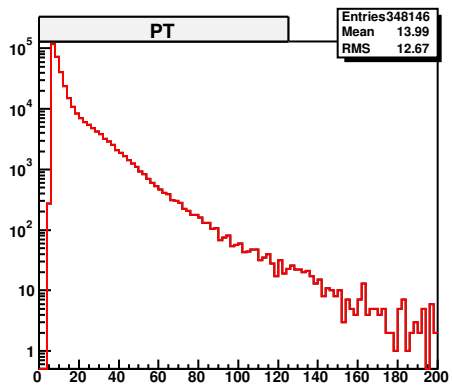
Entries 112232
Mean 7.441
RMS 7.432
8000
6000
4000
2000
0
0 10 20 30 40 50 60 70 80 90 100

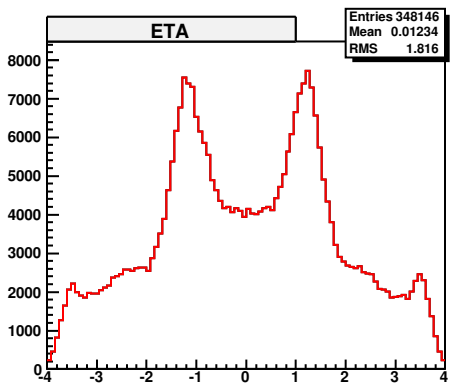

MEx
Entries 112232
Mean 1.017
RMS 7.509
8000
6000
4000
2000
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

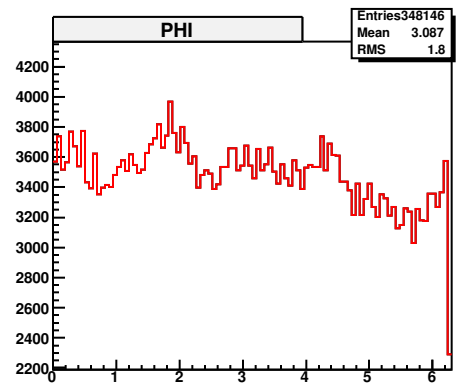

MEy
Entries 112232
Mean -1.145
RMS 7.202
8000
6000
4000
2000
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

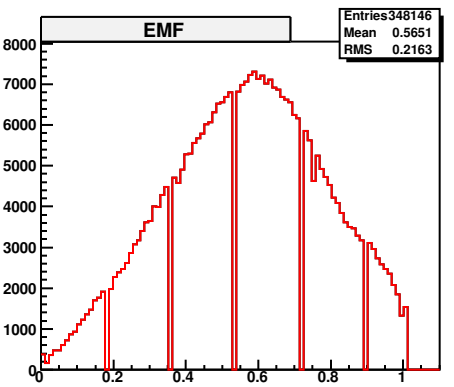
**Met (No cuts)**

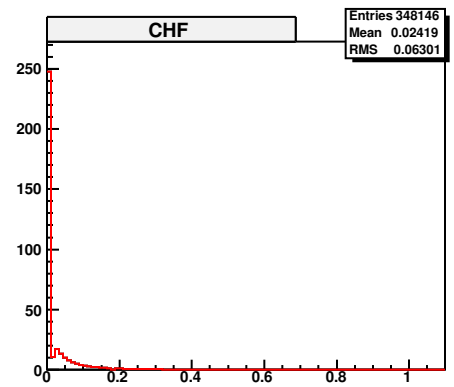


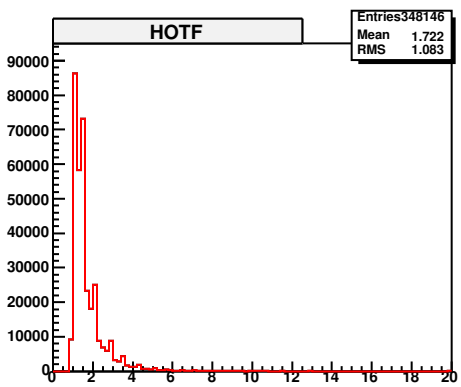



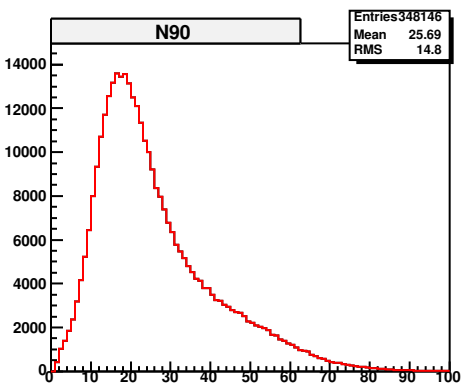



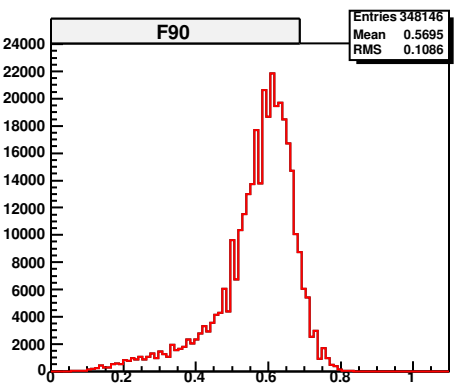



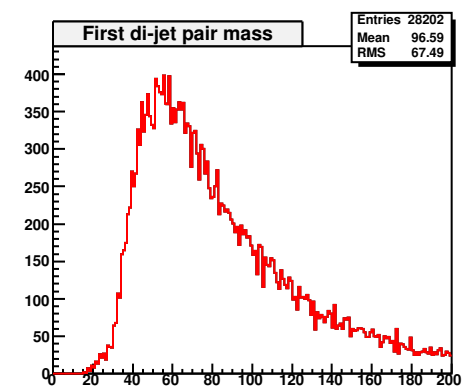



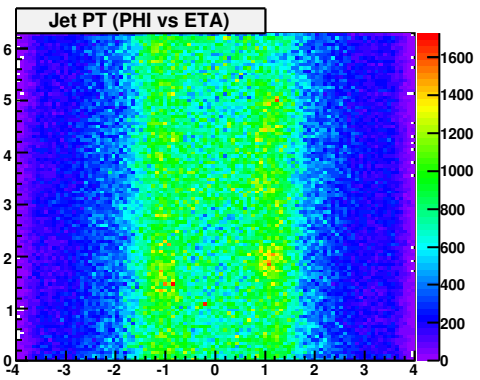



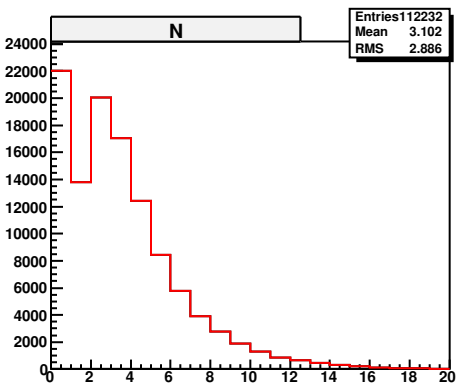



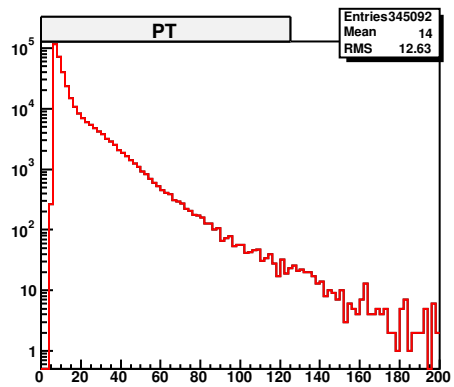



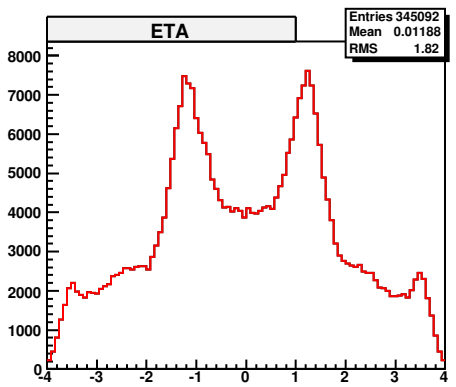



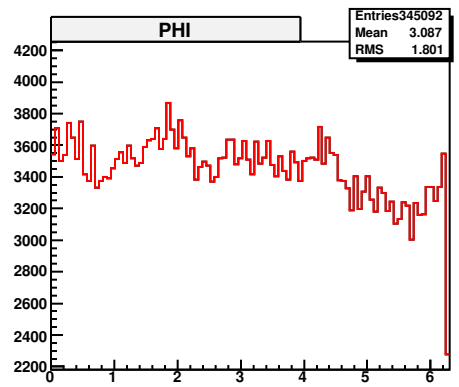



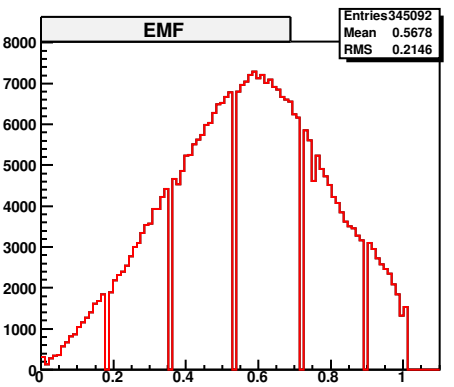

# Jets (Cone R 0.7 (no cuts))

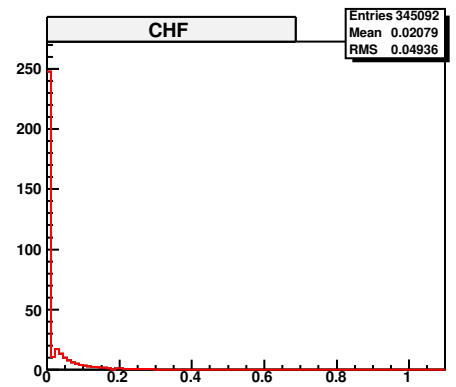


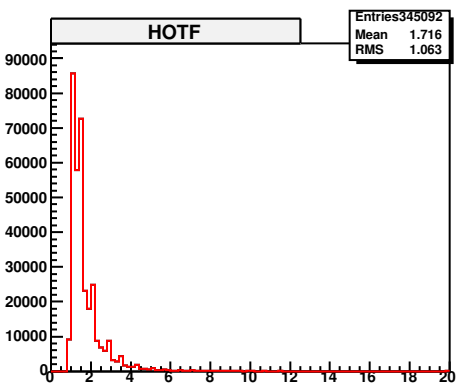



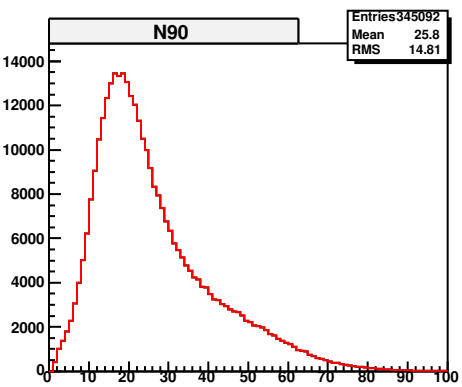



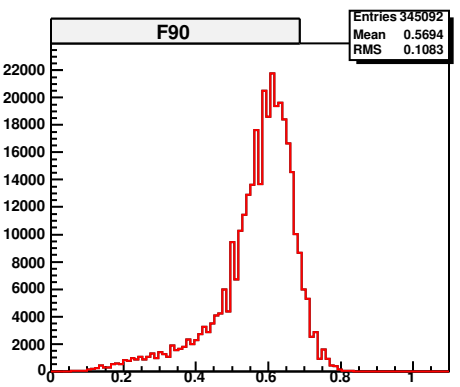



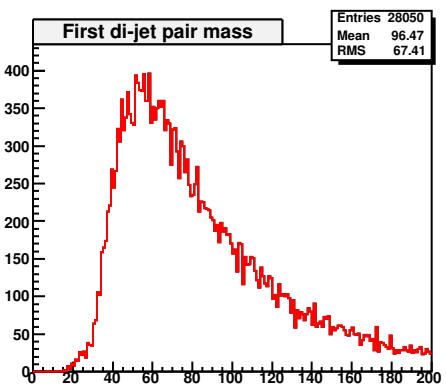



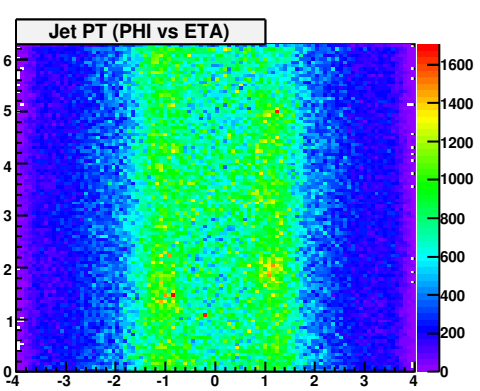



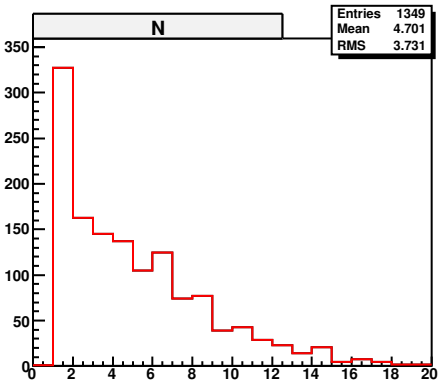



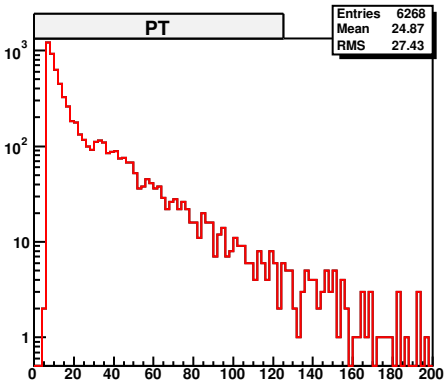



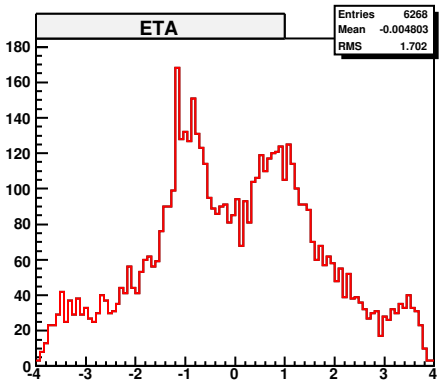



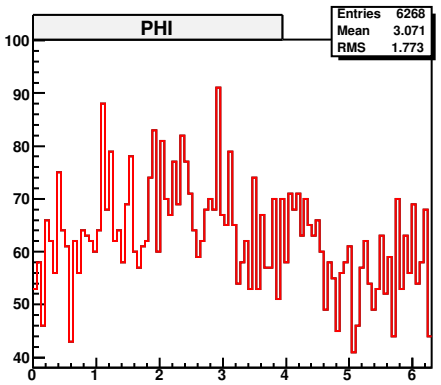



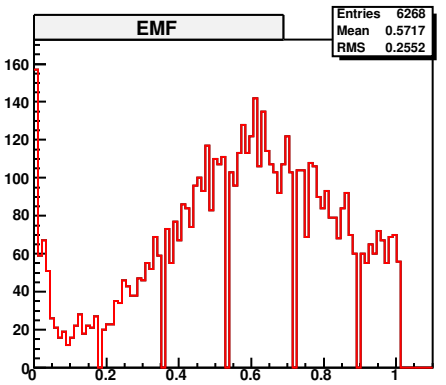

# Jets (Cone R 0.7 (standard cuts))

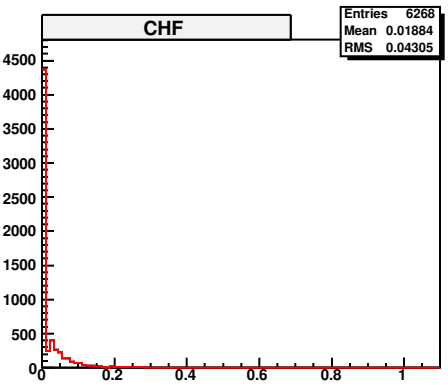


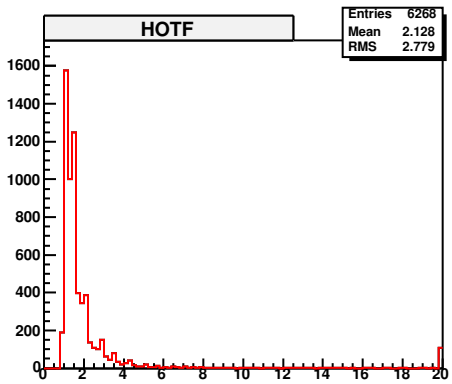



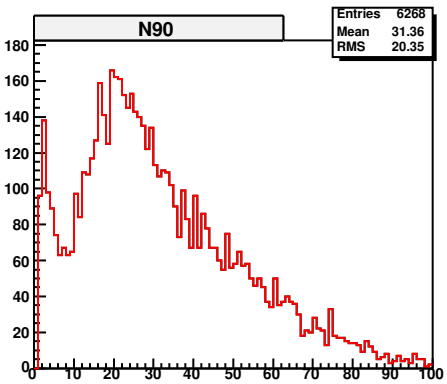



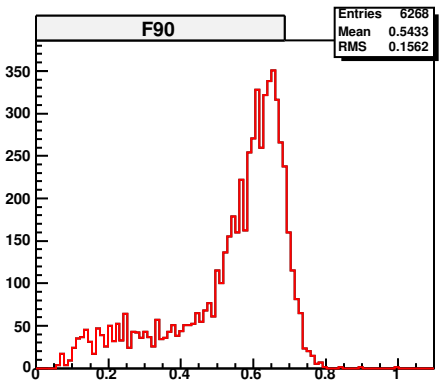



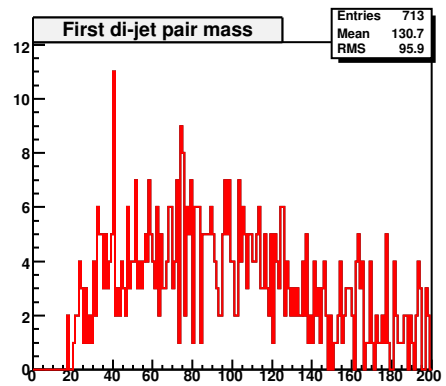



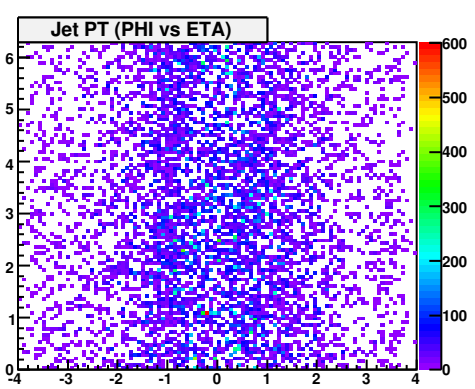



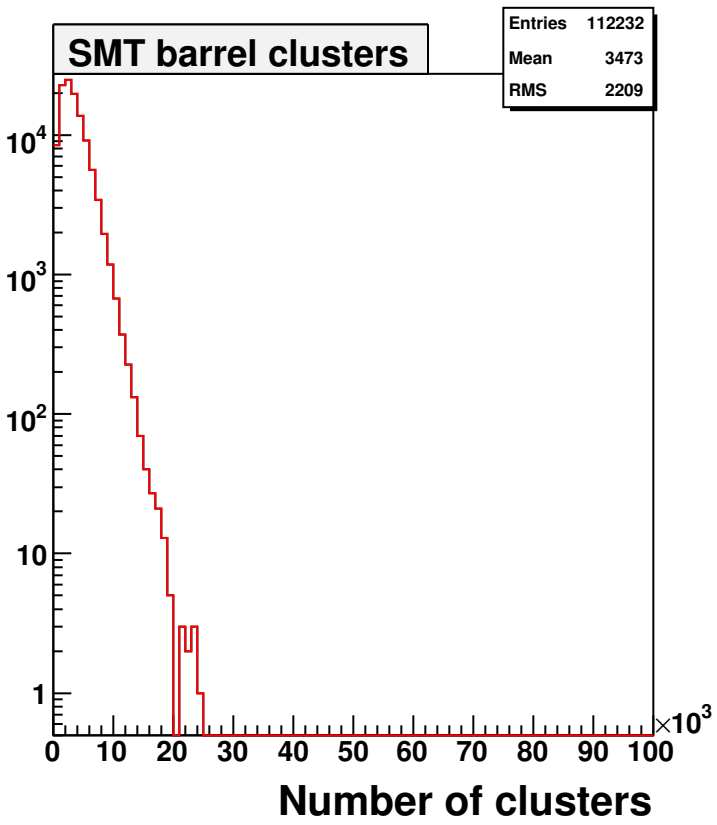



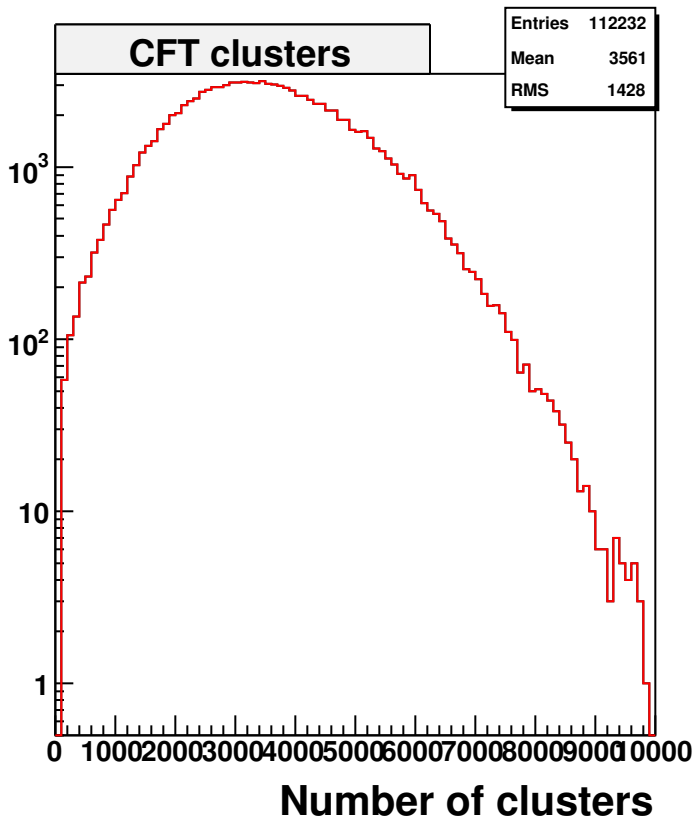



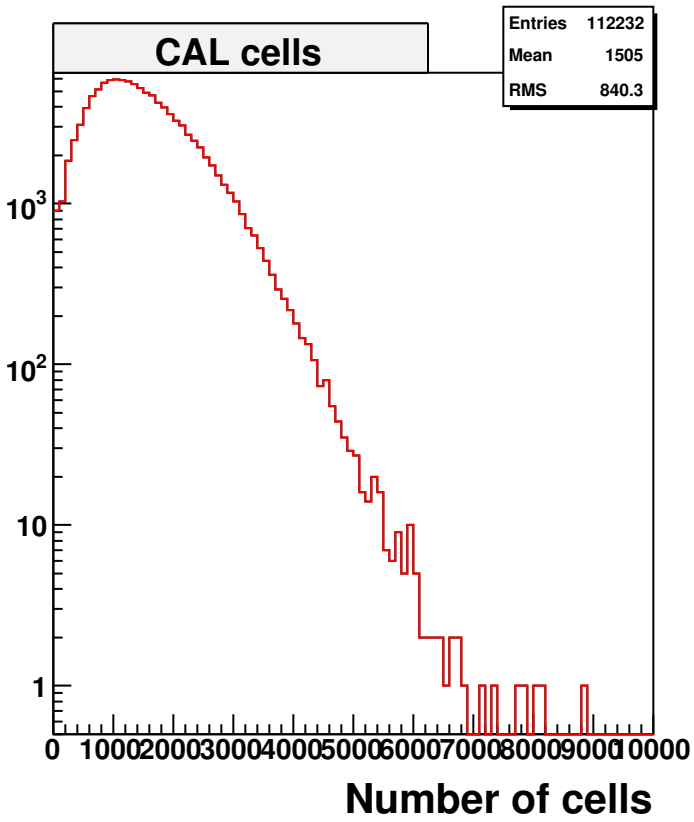



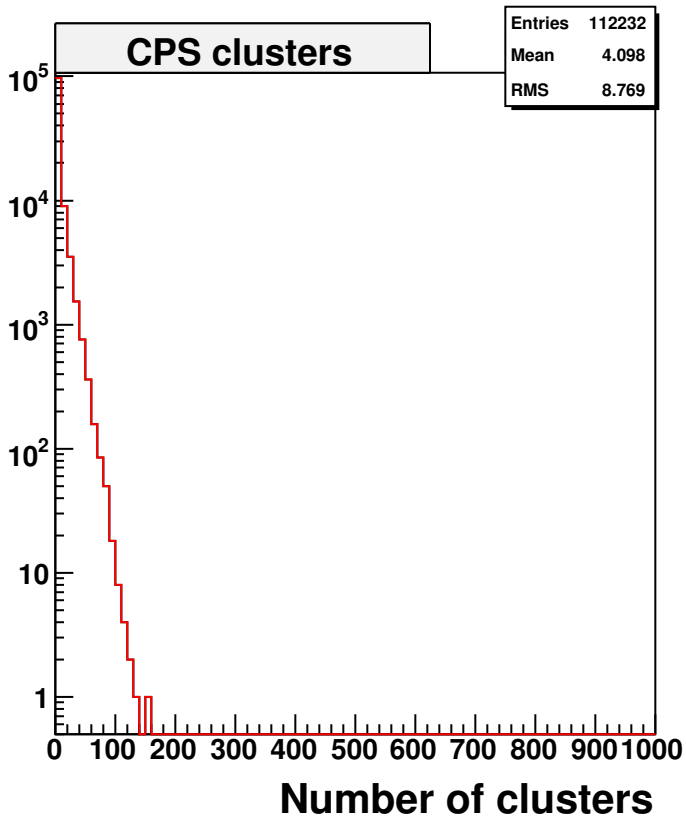




# Jets (Cone R 0.7 (standard cuts, MET>30))

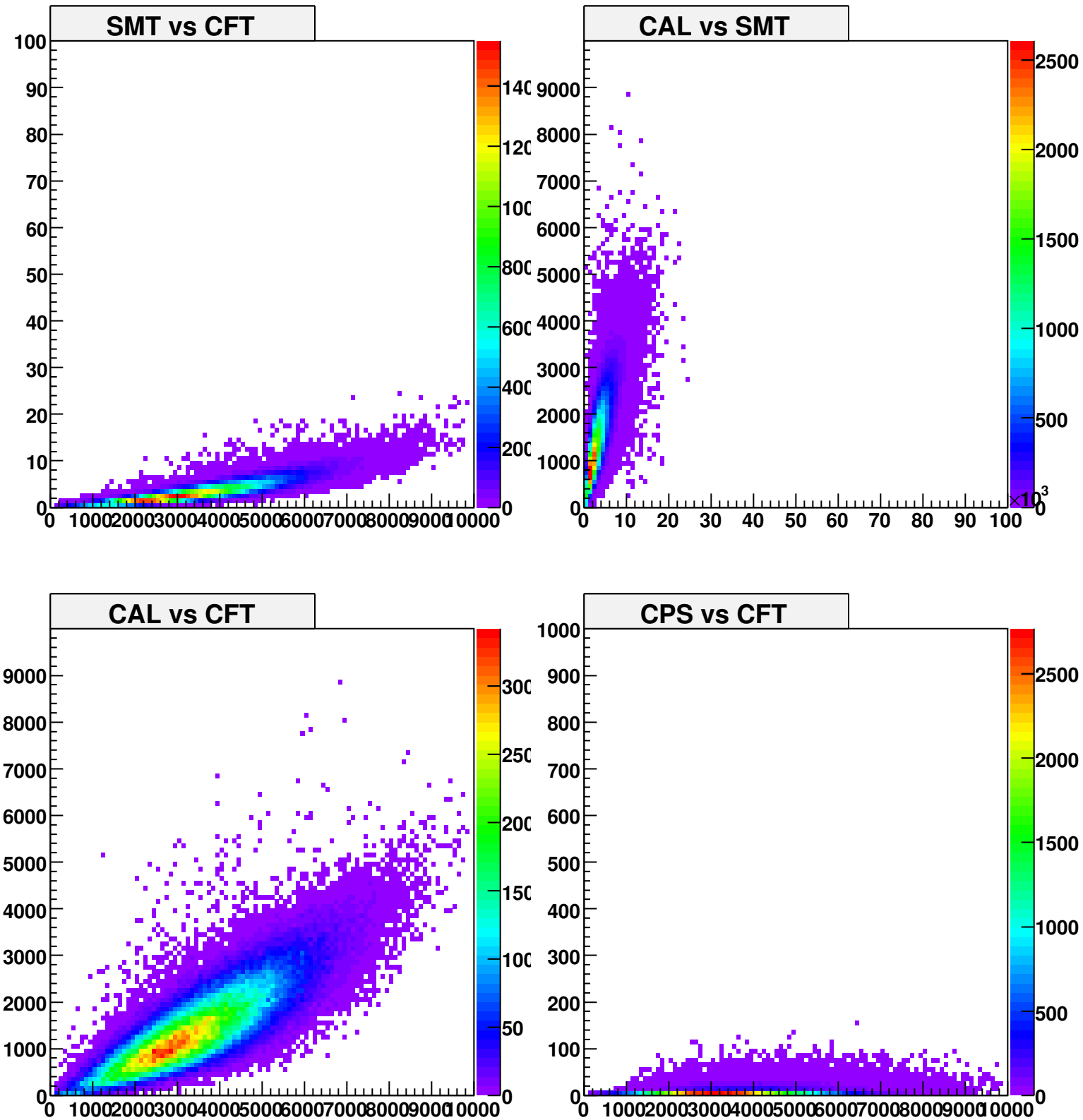


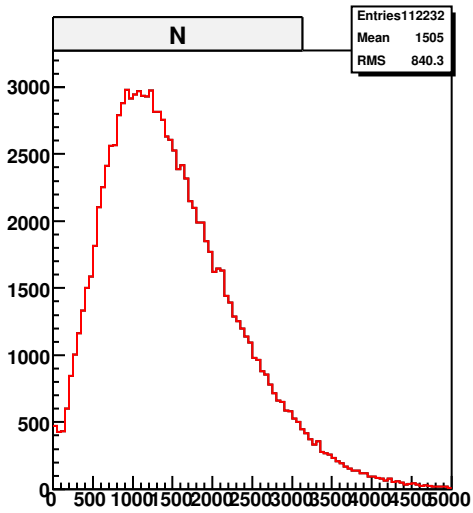



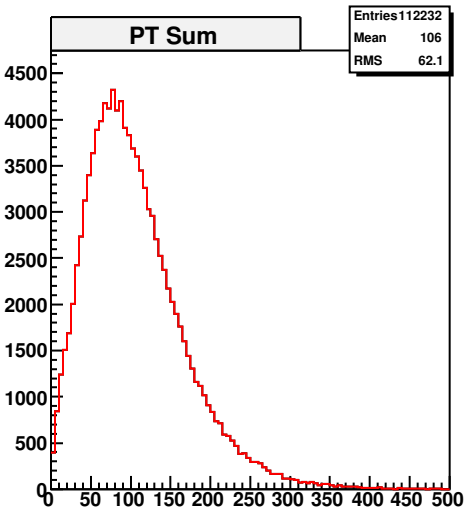



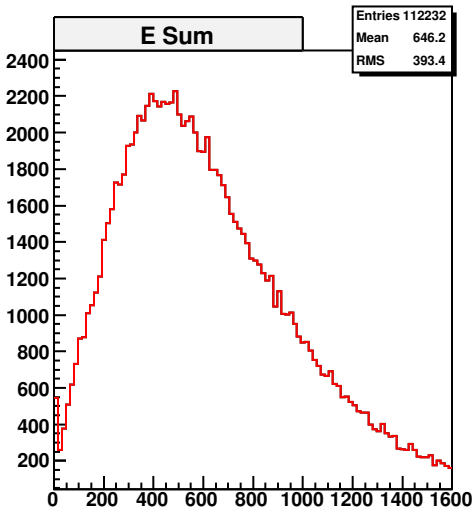



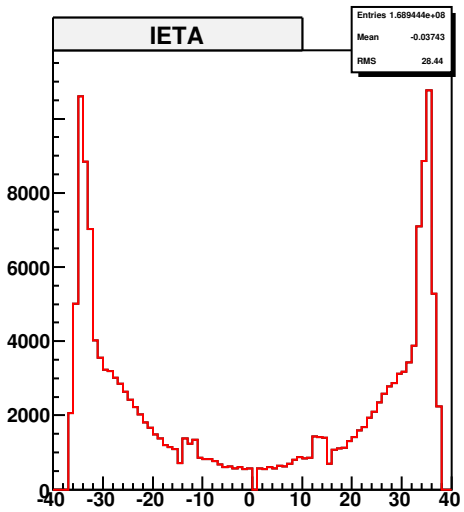

Detector Occupancy (Detector)

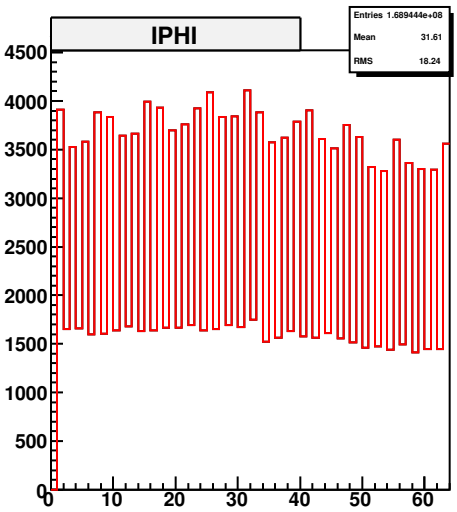

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

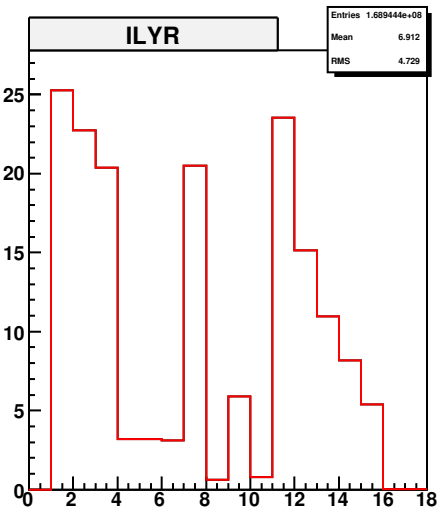


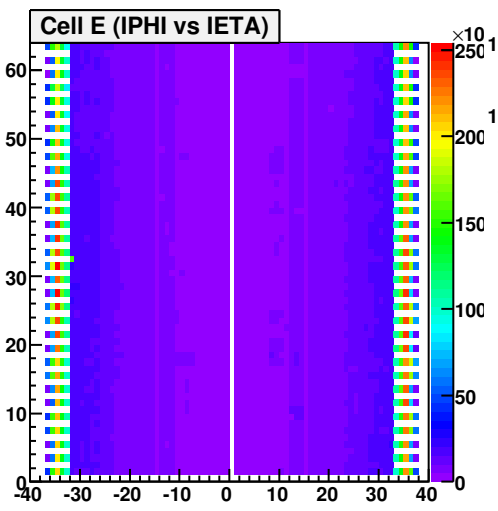



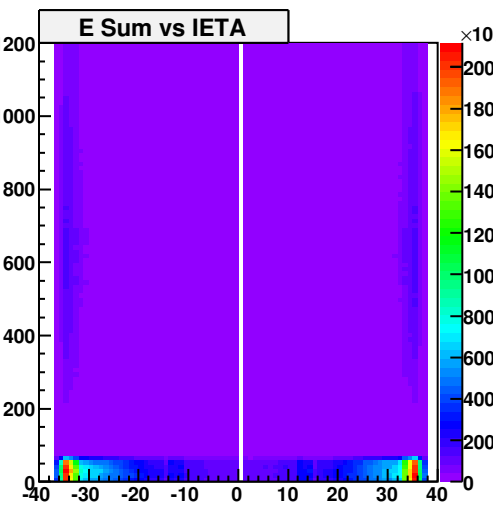



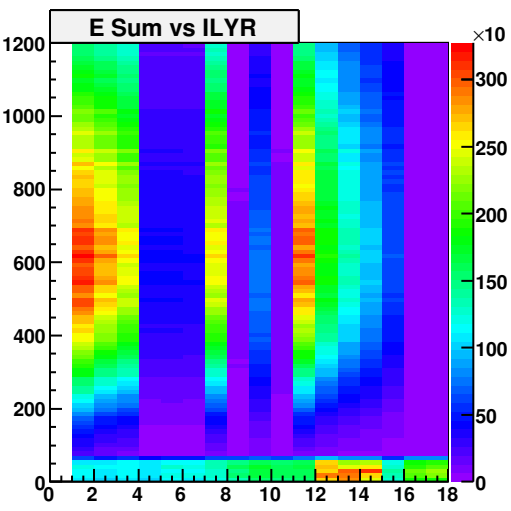



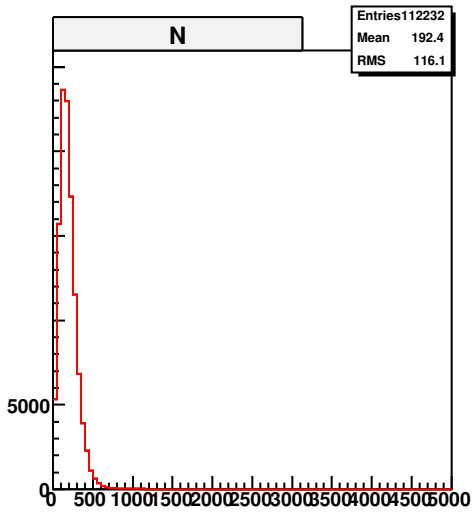



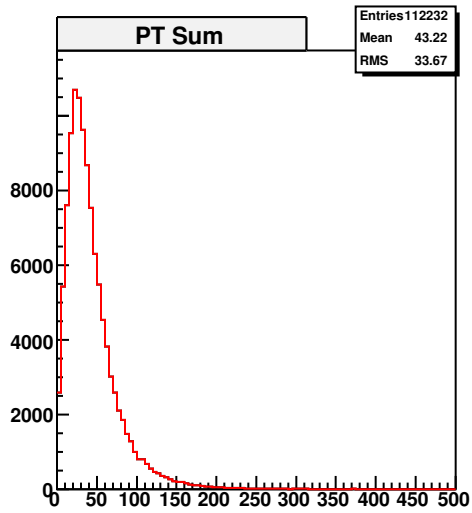



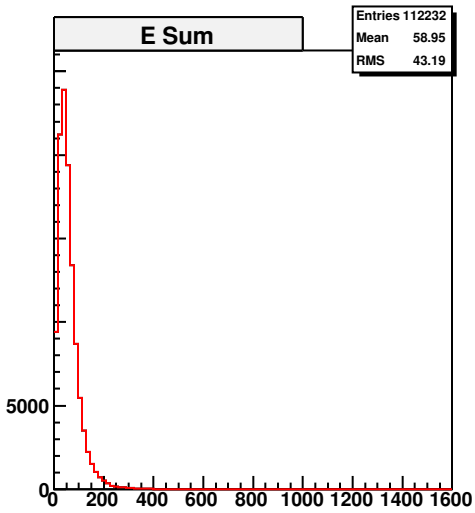



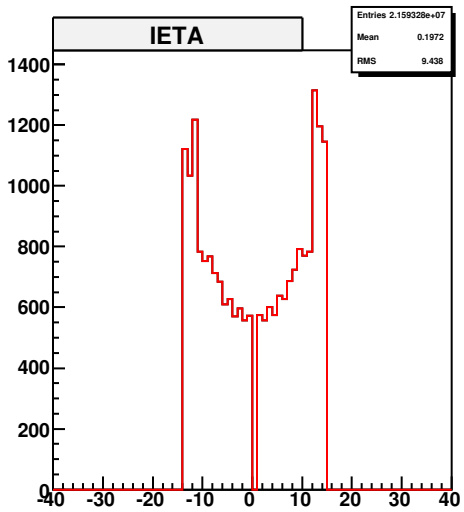



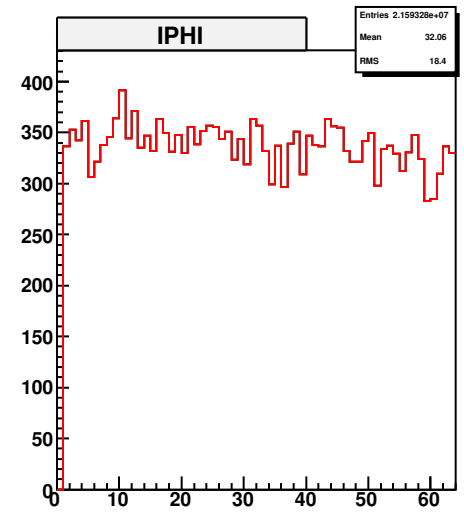

# Calorimeter (All cells)

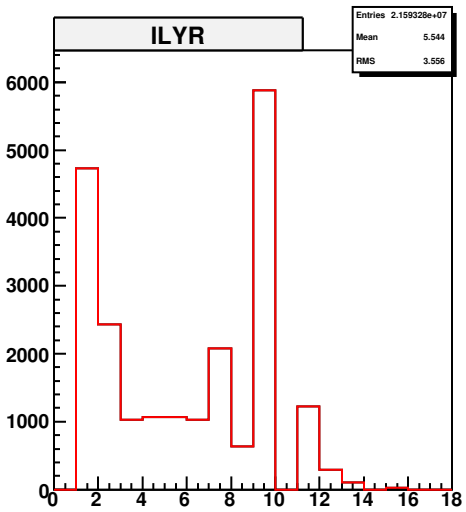


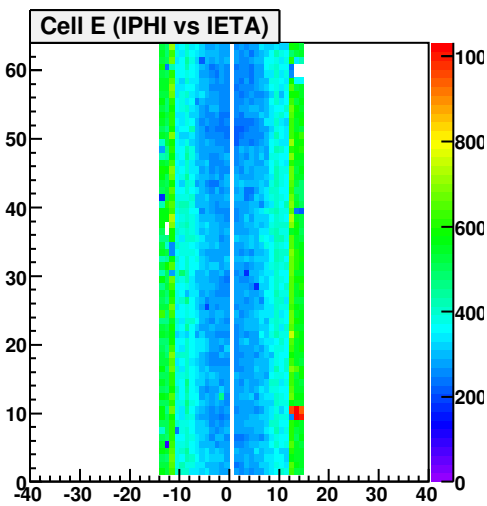



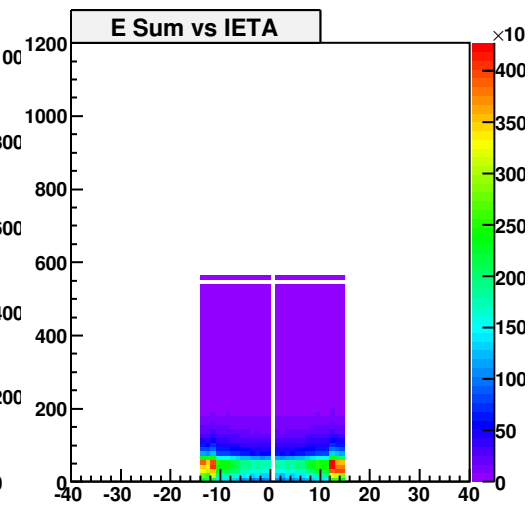



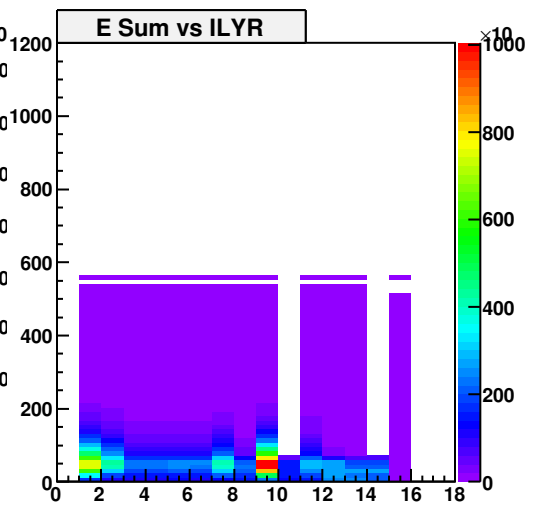



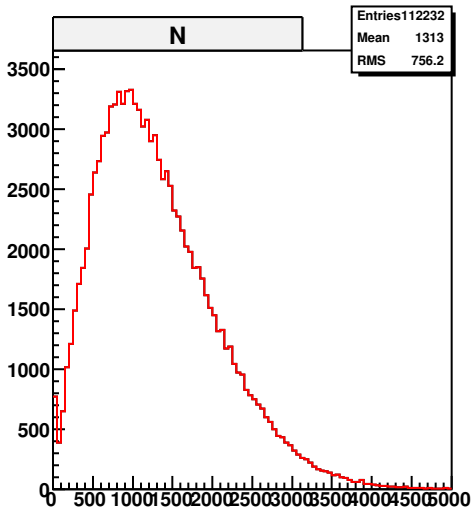



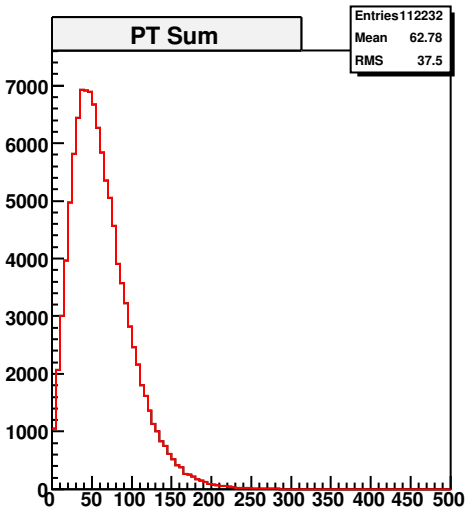



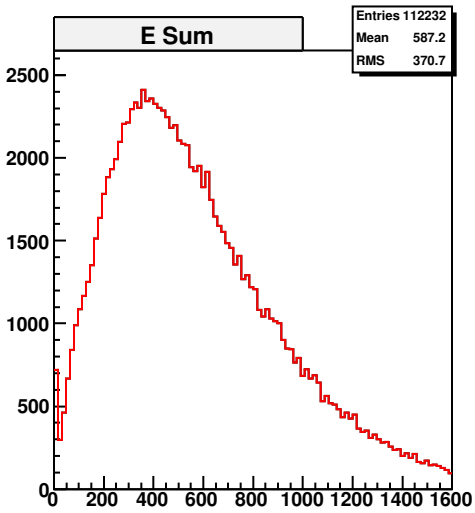



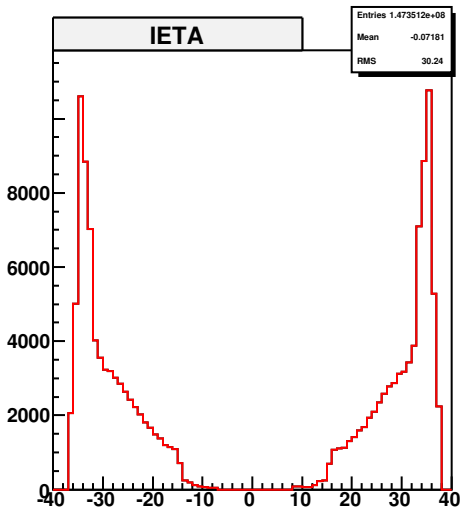



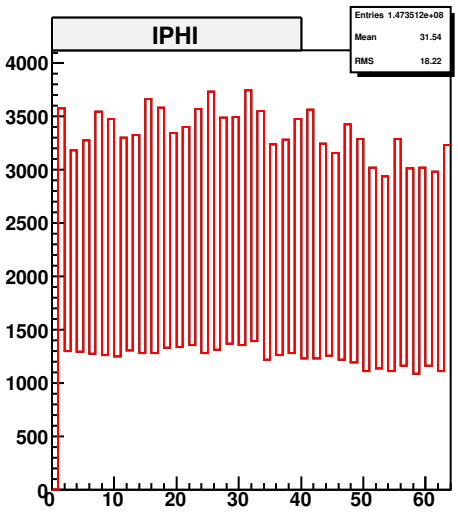

# Calorimeter (All CC cells)

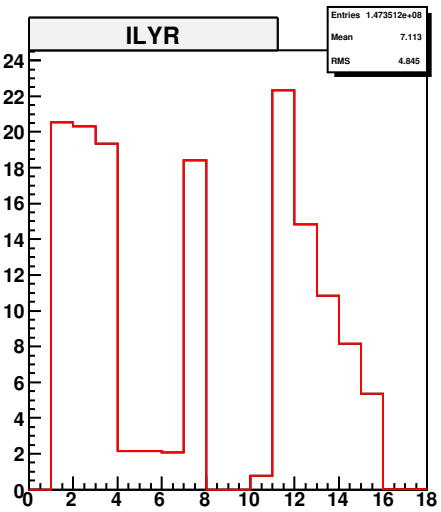


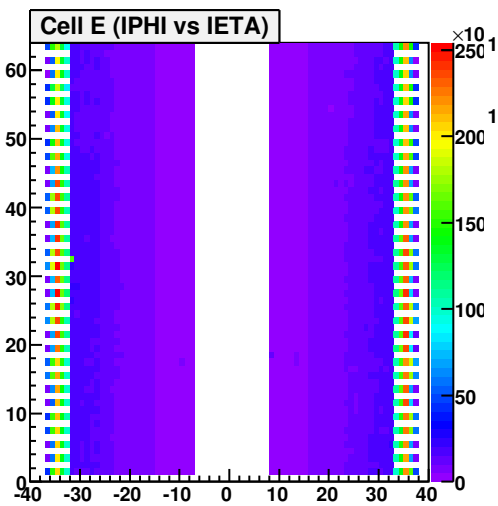



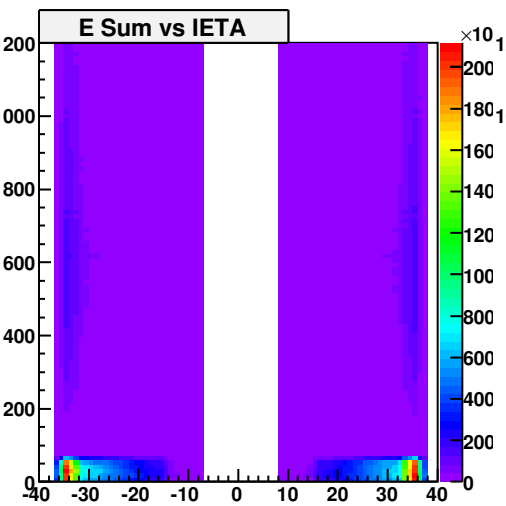



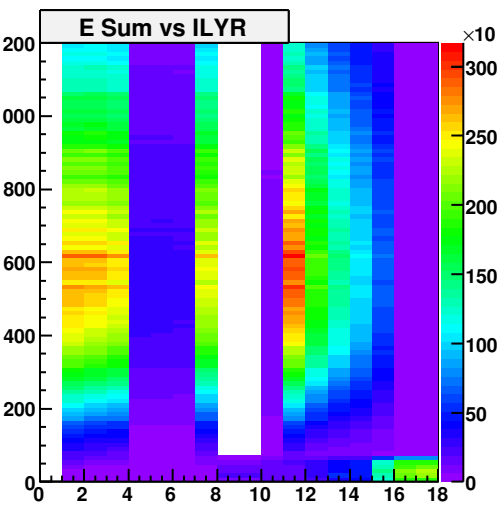



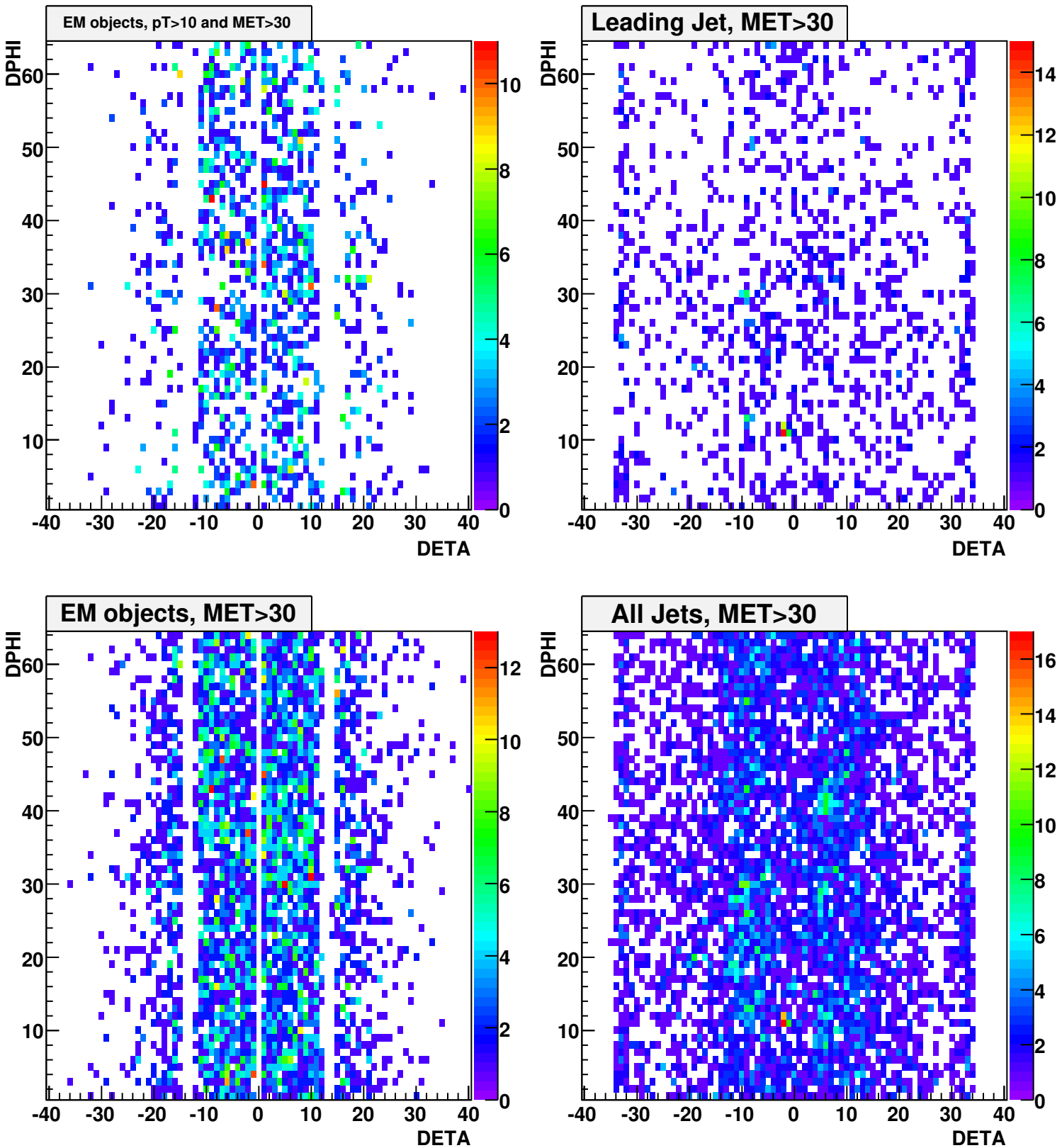



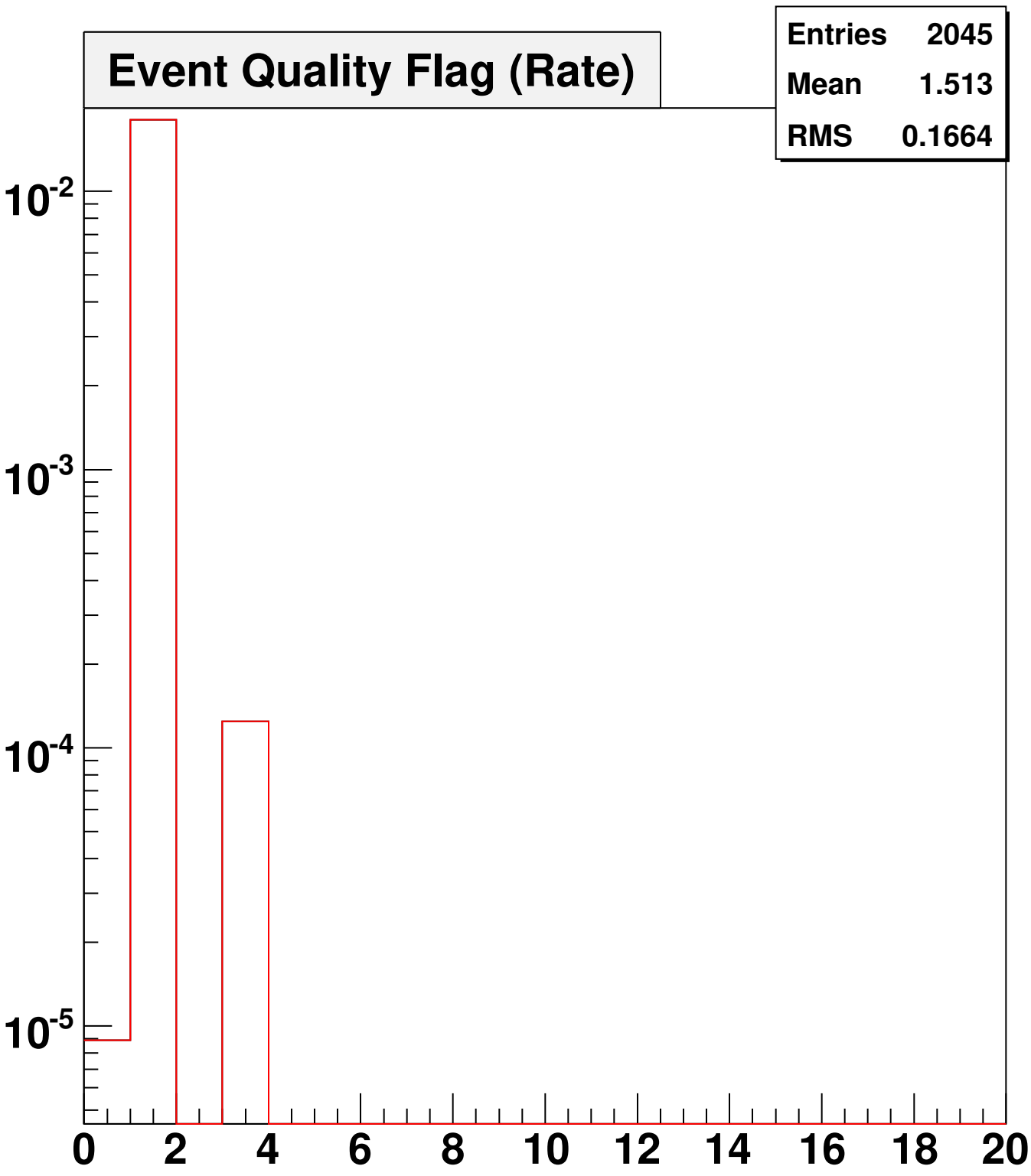



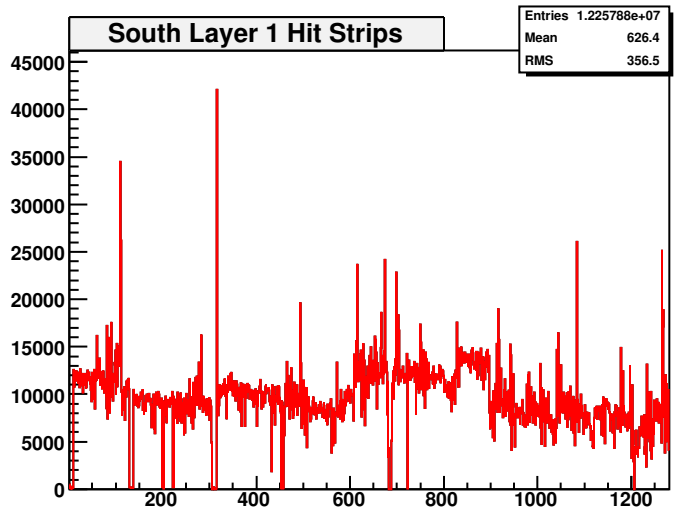



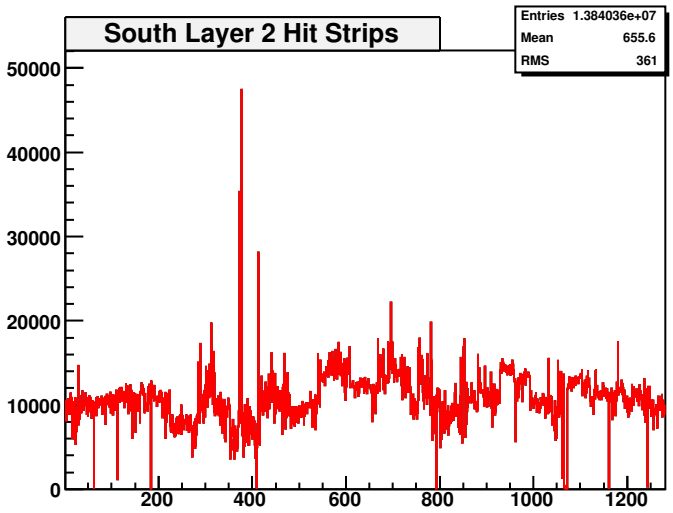

# Calorimeter (All EC cells)

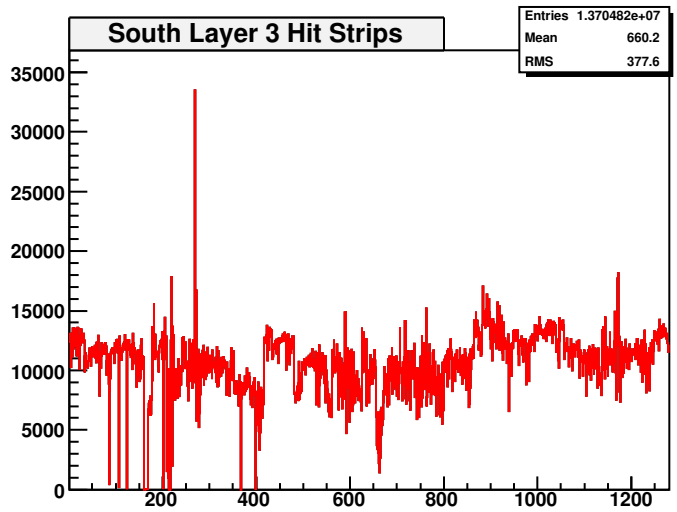


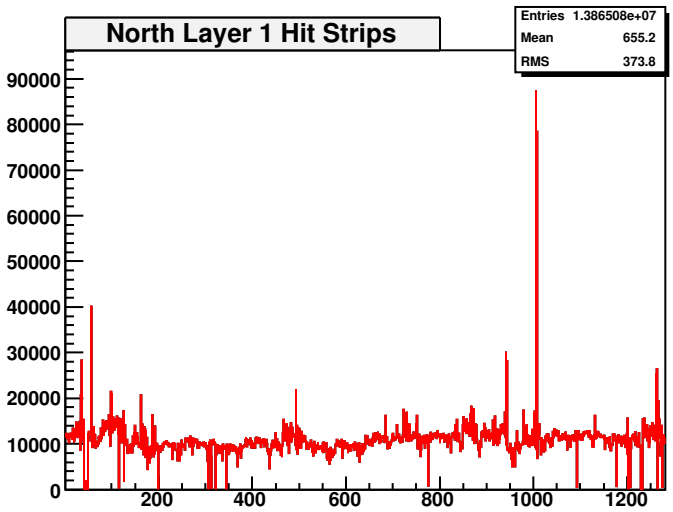

**Cal Objects with MET>30 (All cells)**

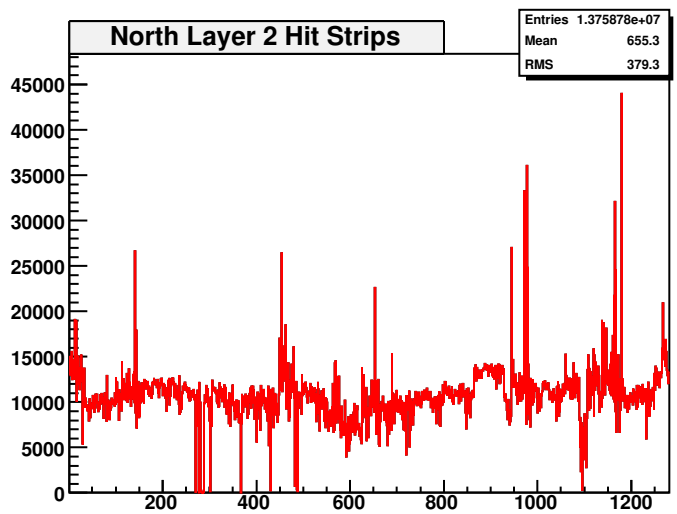

Event Quality Flag (Rate)
Entries 2045
Mean 1.513
RMS 0.1664
10-2
10-3
10-4
10-5
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

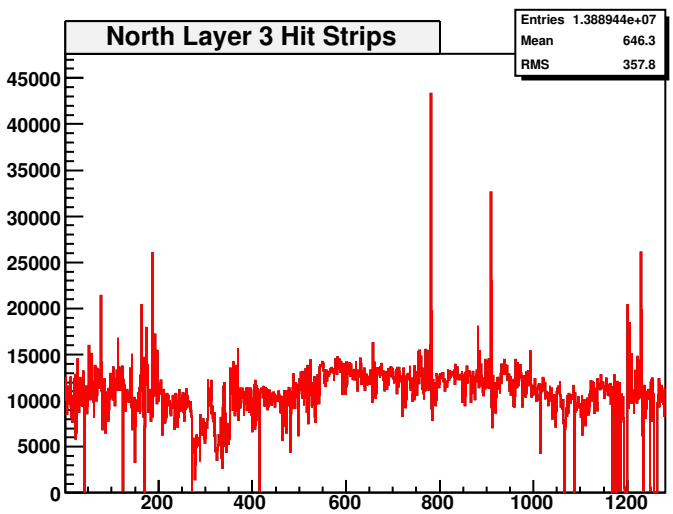


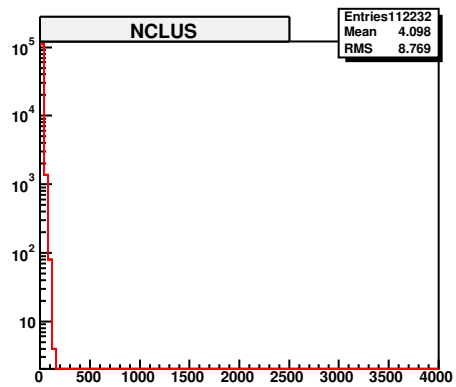



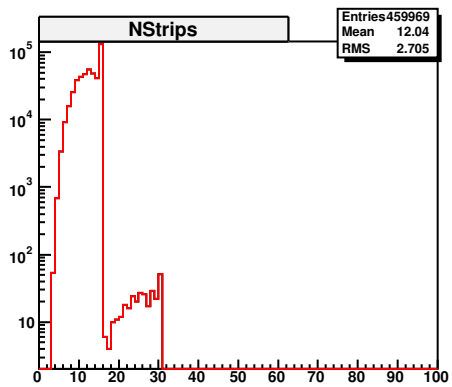



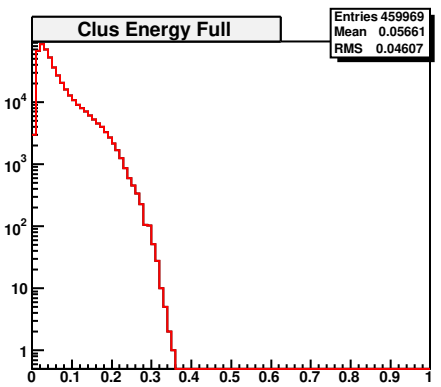



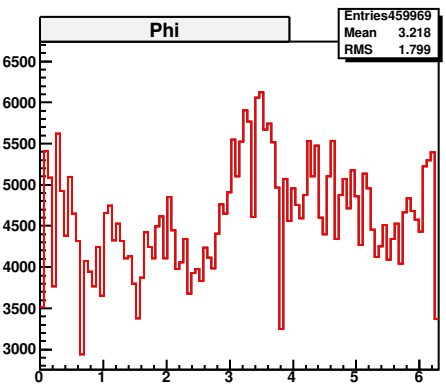



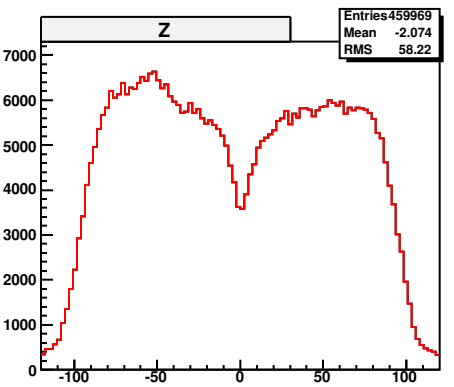

# CPS Hit Strips (All Clusters)

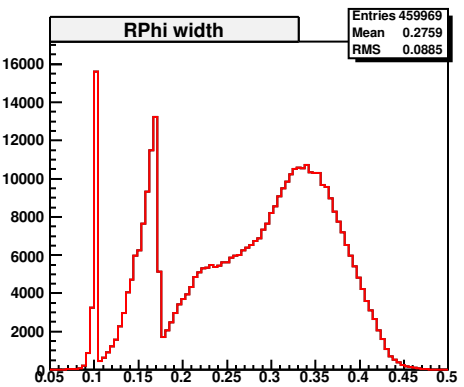


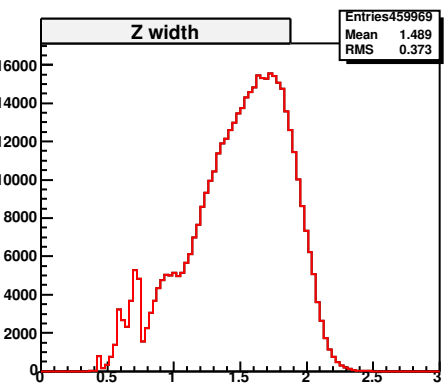



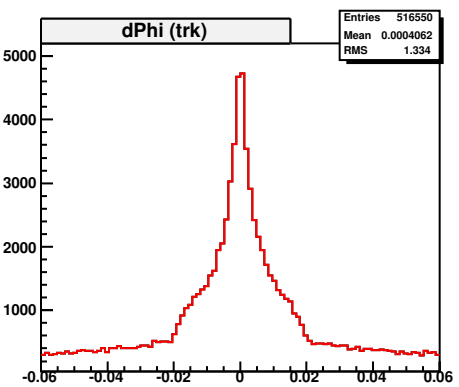



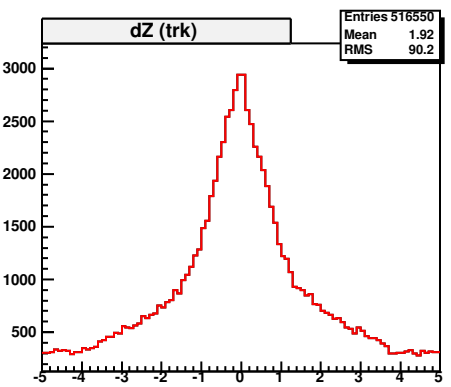



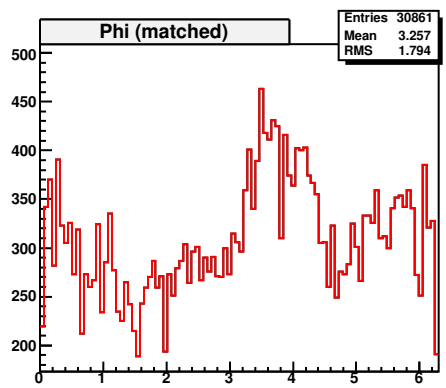



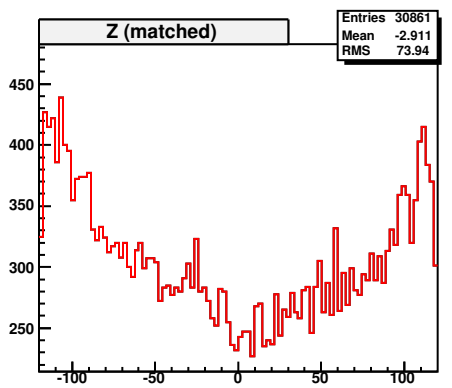



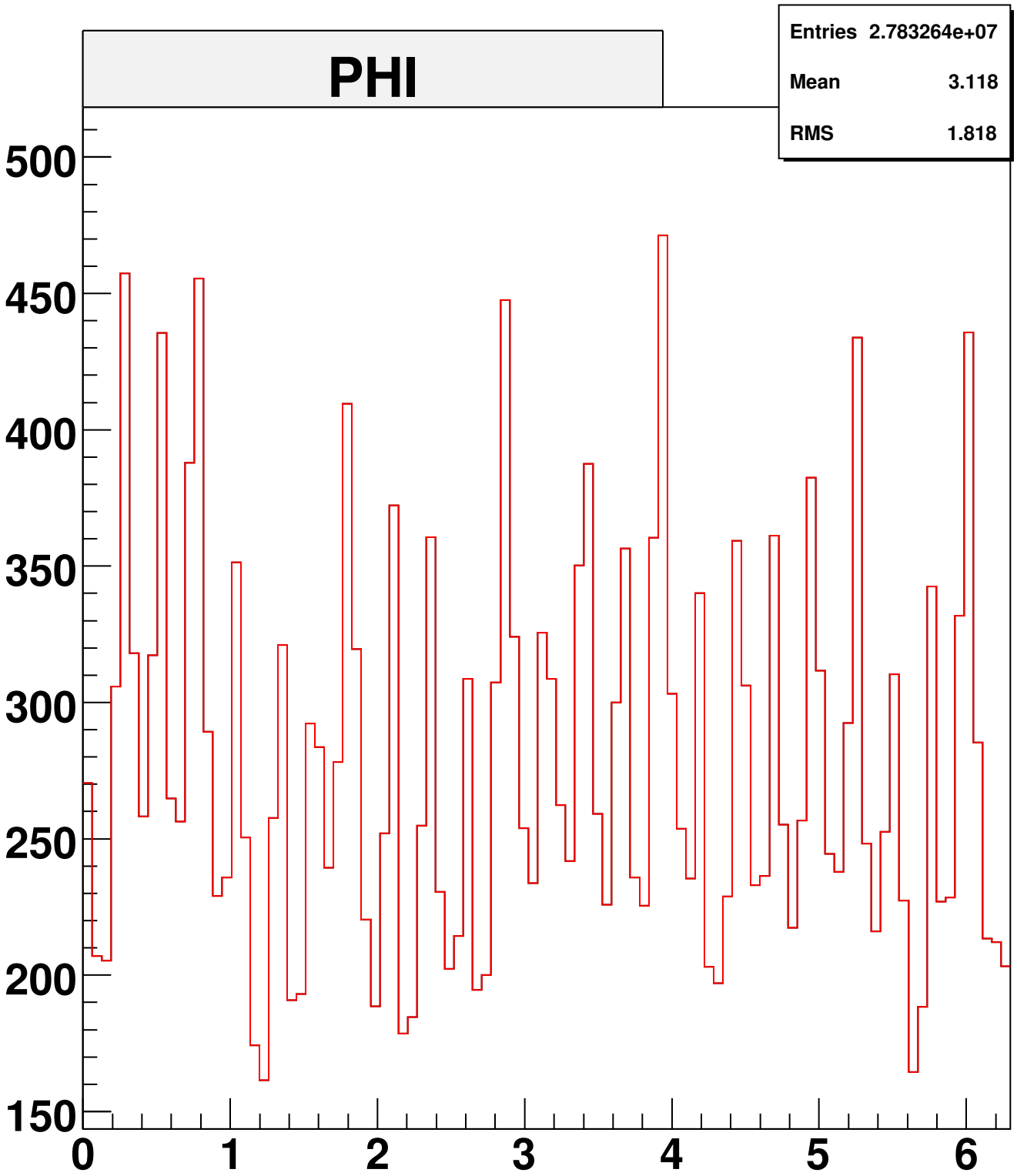



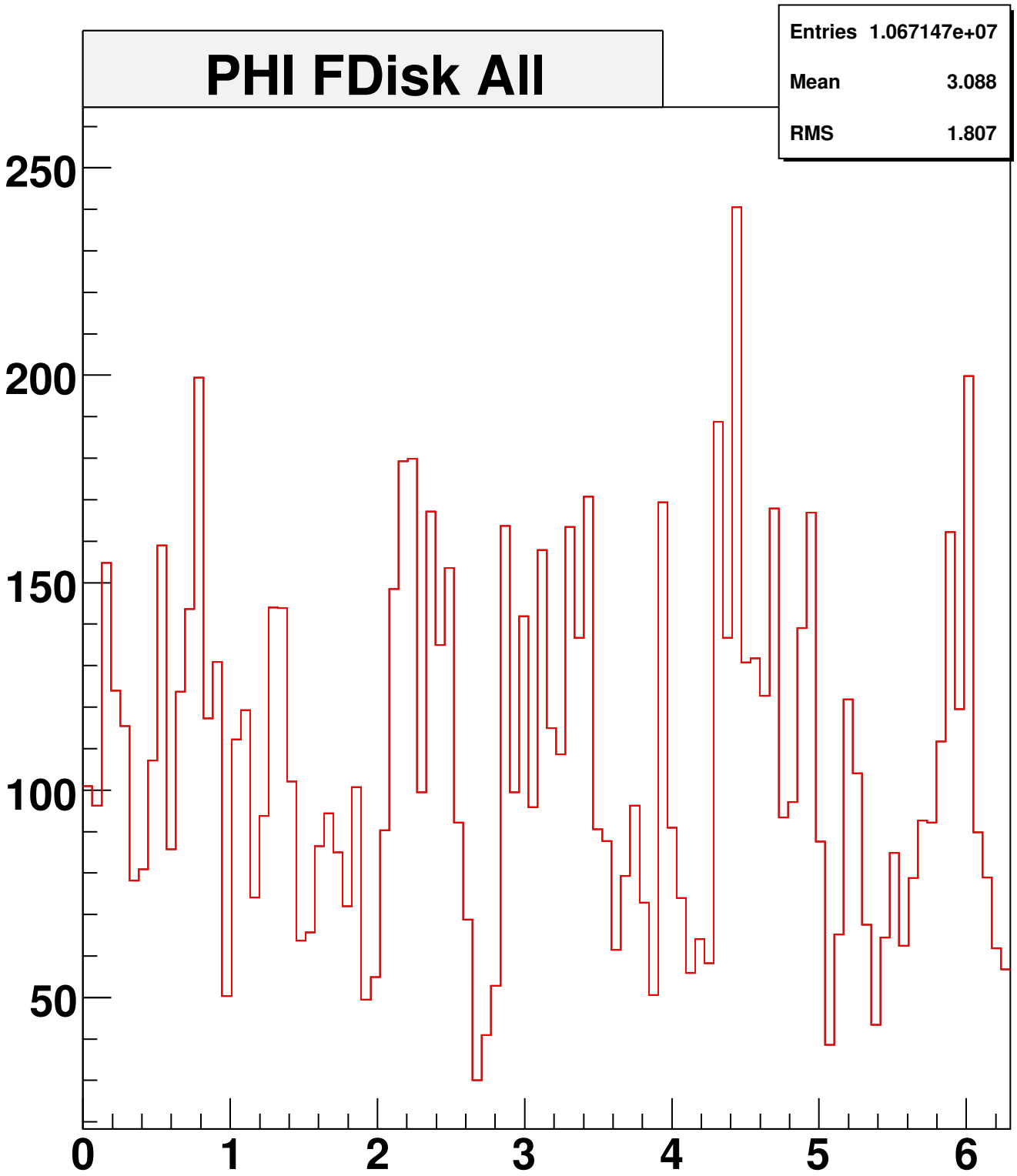



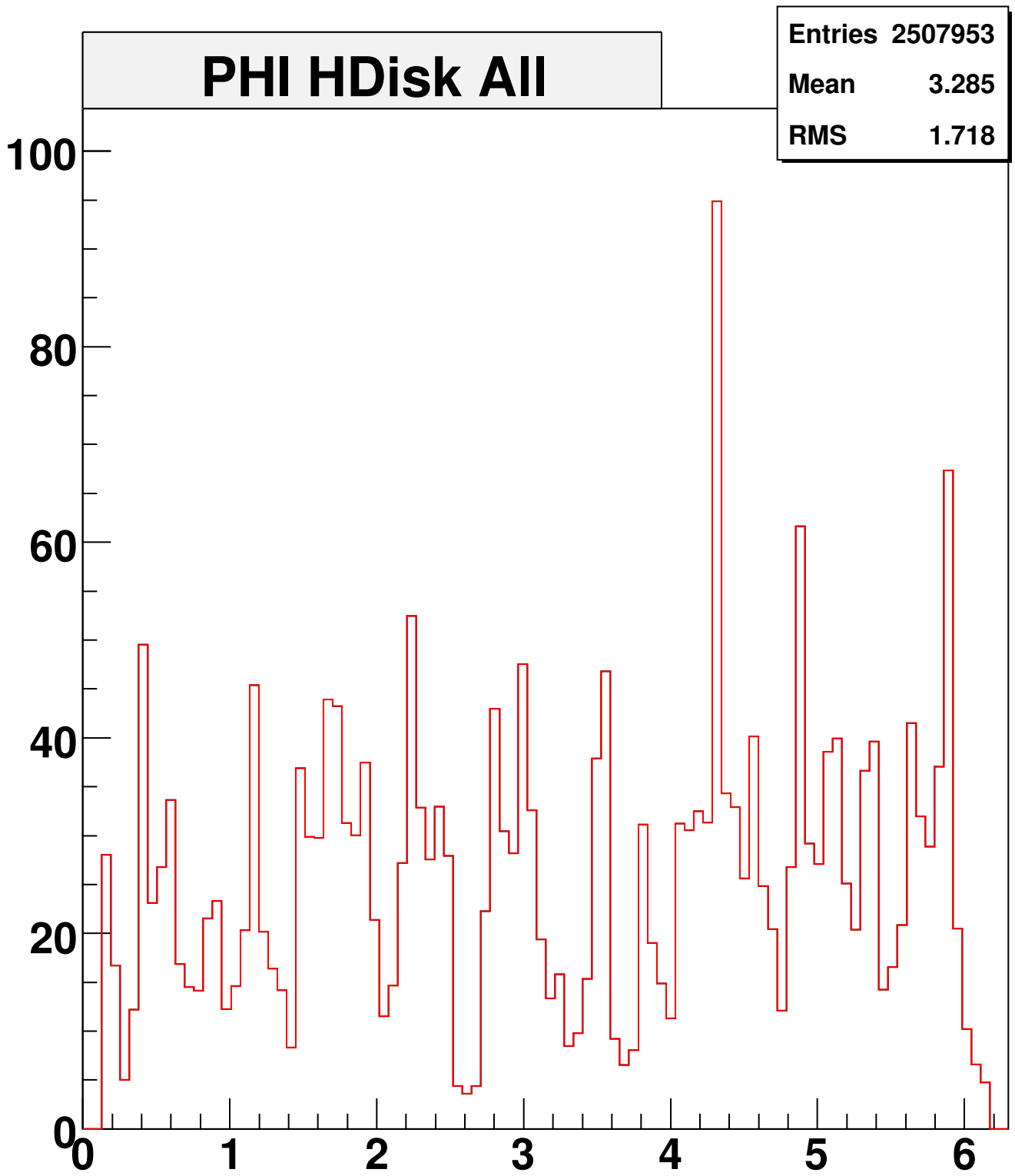



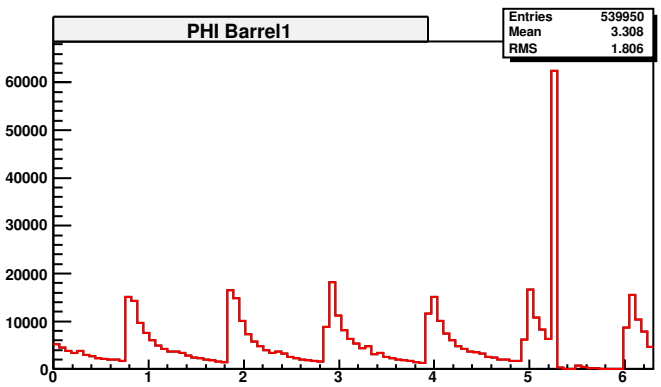



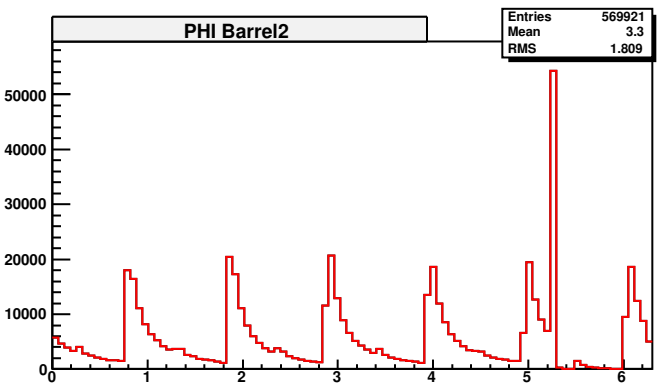

# CPS Clusters (All Clusters)

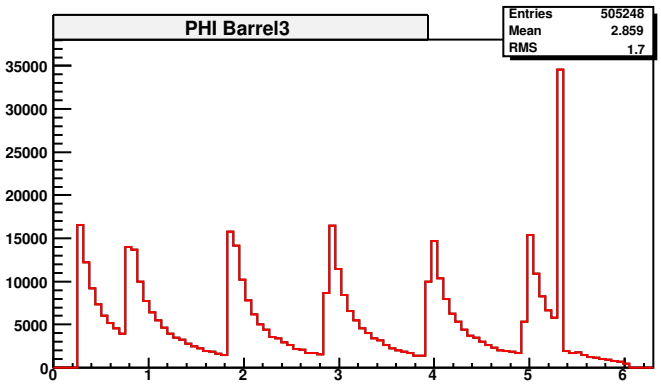

PHI
Entries 2.783264e+07
Mean 3.118
RMS 1.818
500
450
400
350
300
250
200
150
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

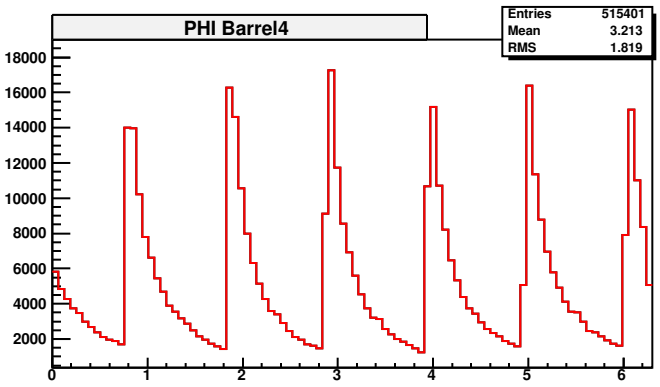

PHI FDisk All
Entries 1.067147e+07
Mean 3.088
RMS 1.807
250
200
150
100
50
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

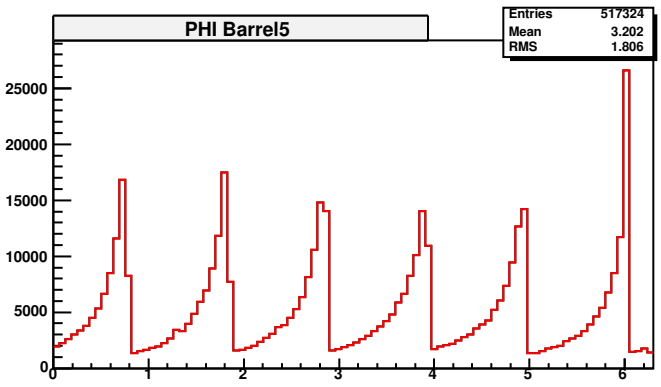

PHI HDisk All
Entries 2507953
Mean 3.285
RMS 1.718
100
80
60
40
20
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

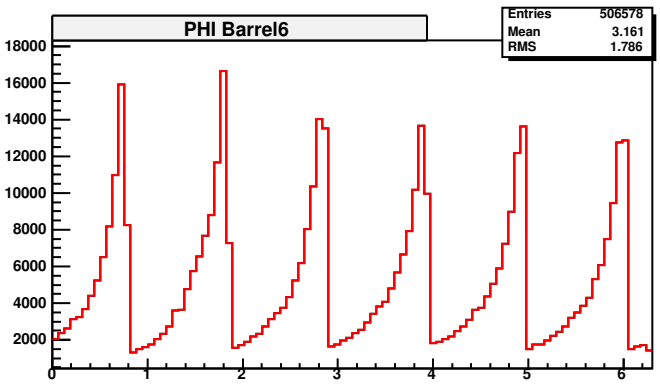


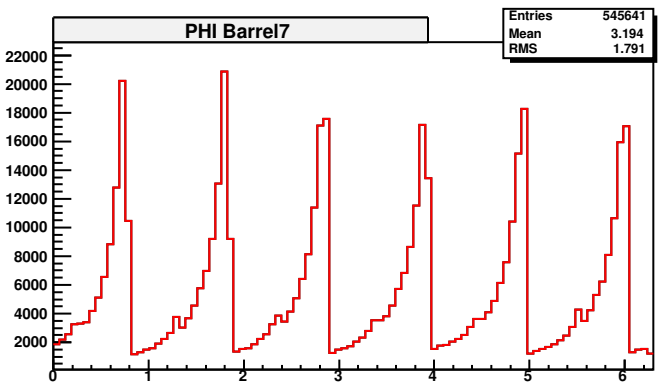



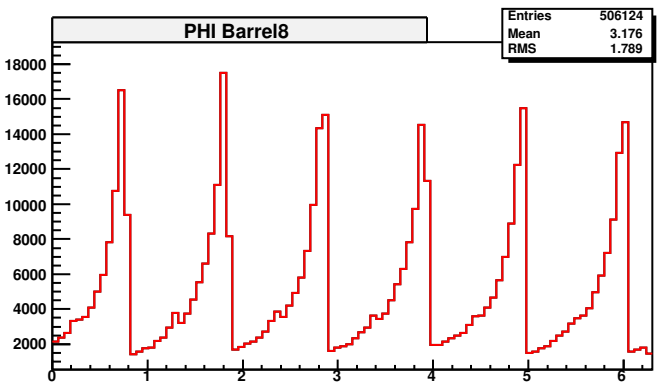



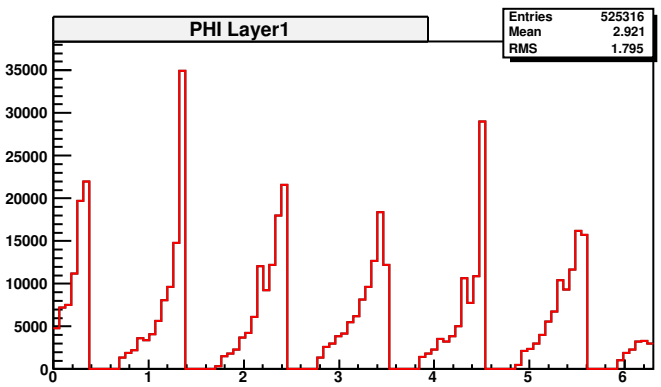



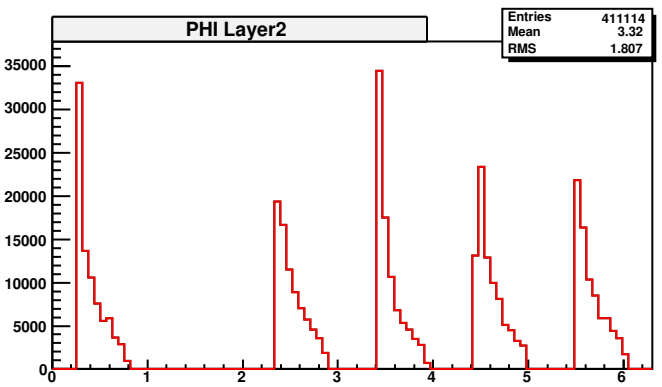



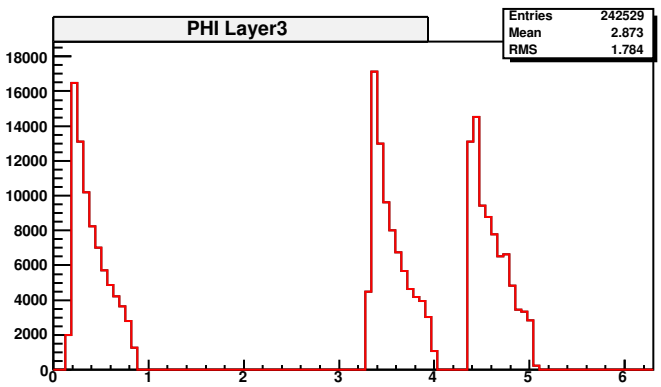



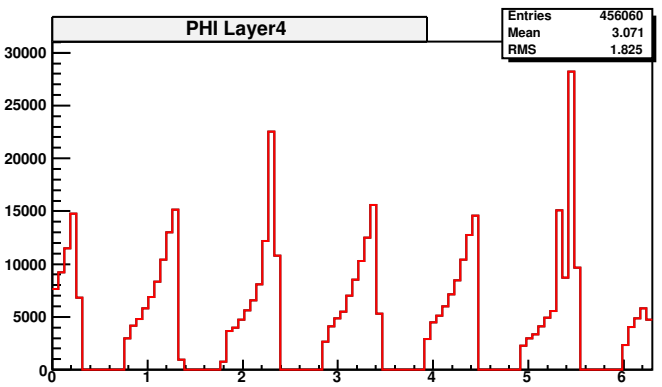



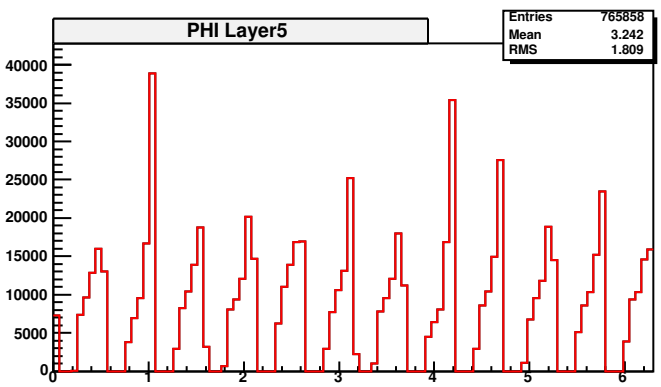

# SmtClusters (ClustrLayer0)

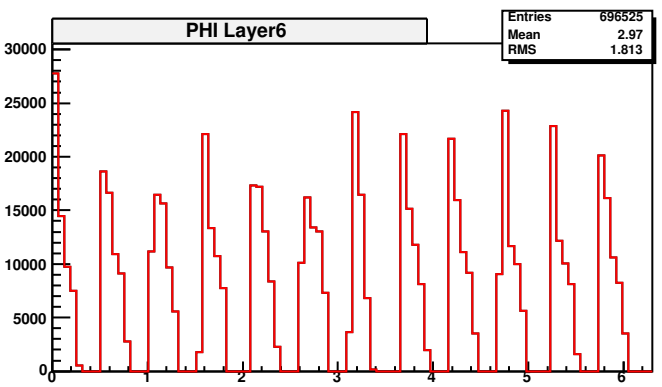


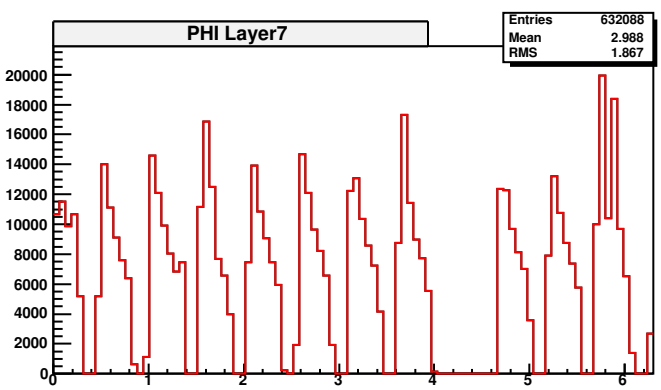



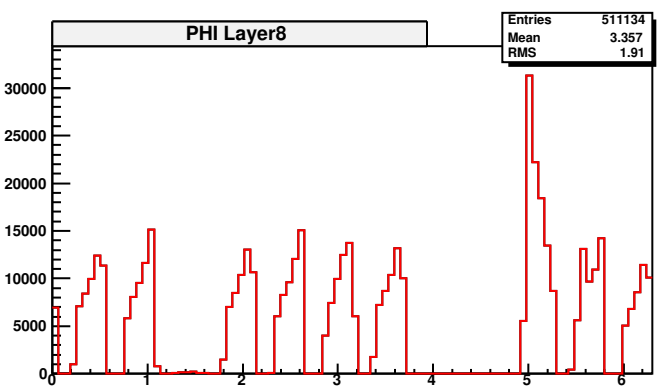



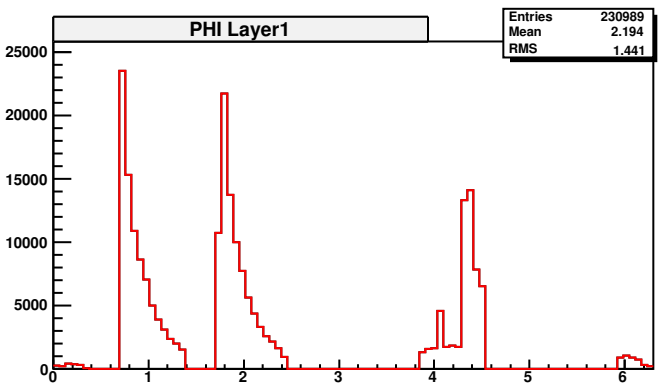



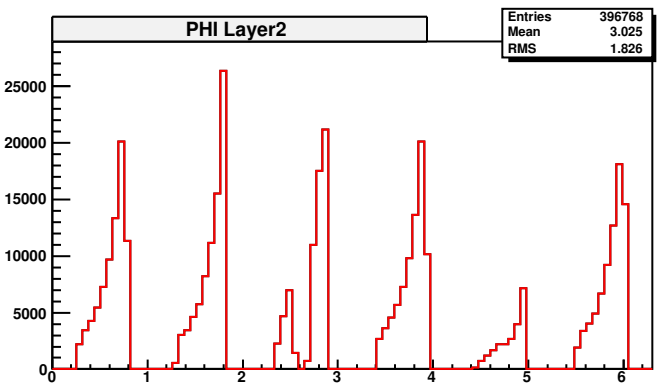



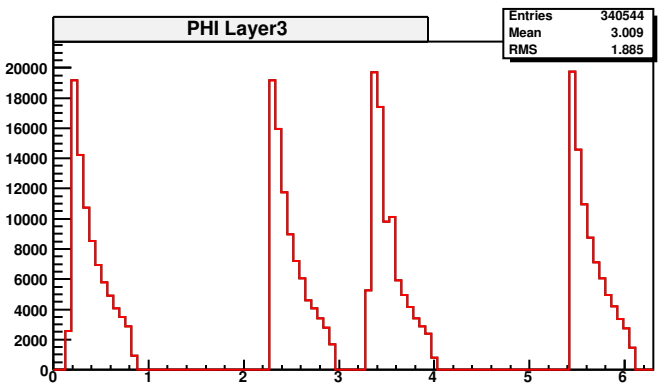



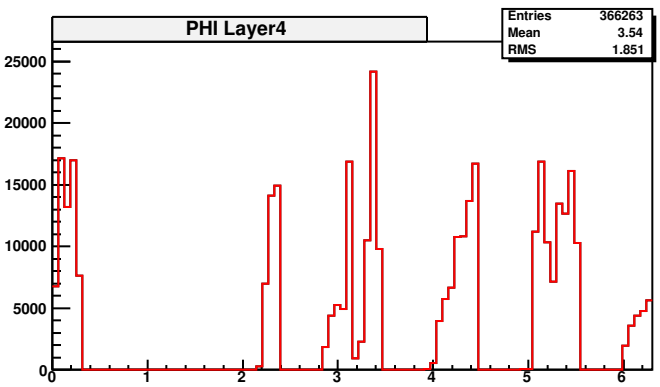



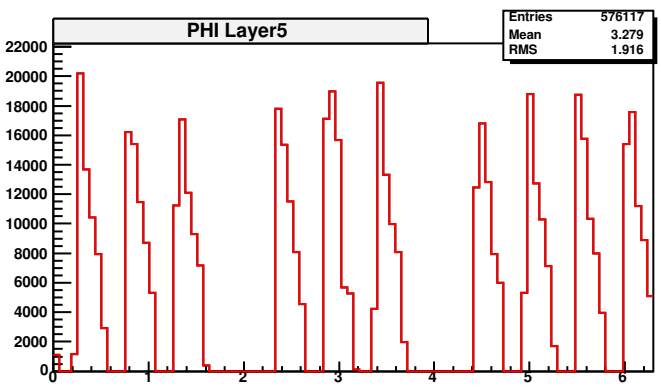

# SmtClusters (ClustrBar1)

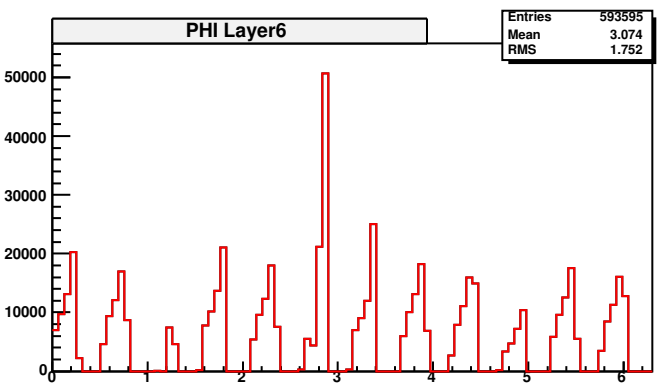


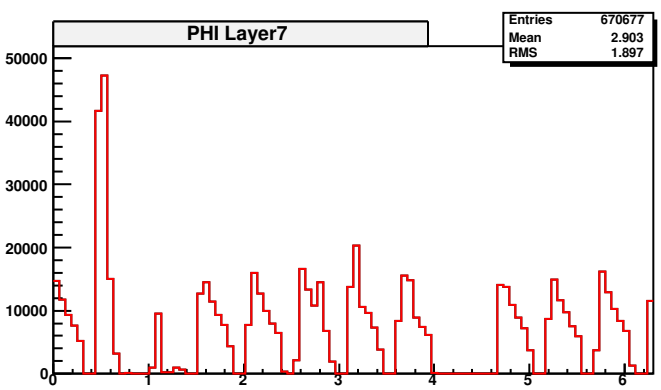



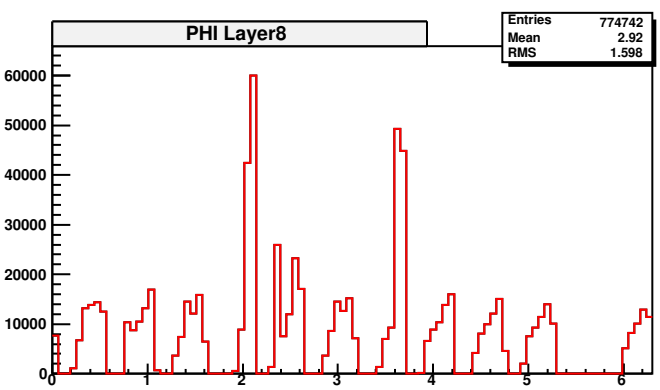



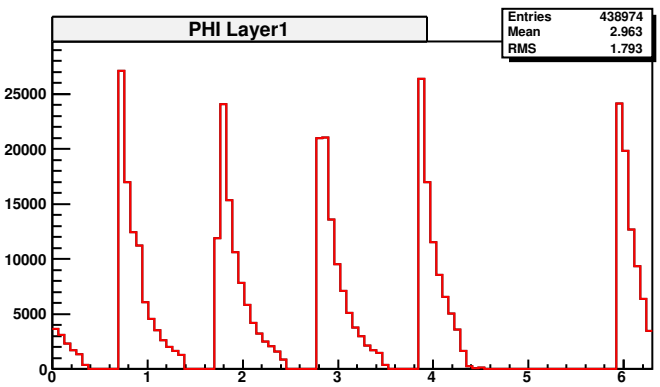



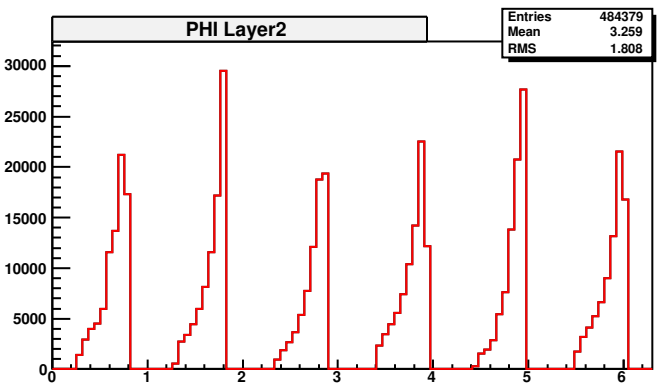



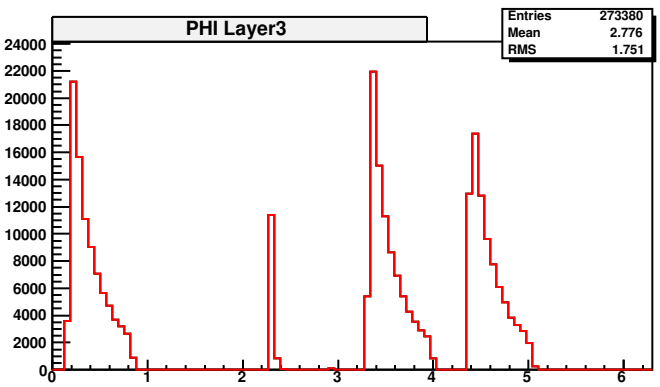



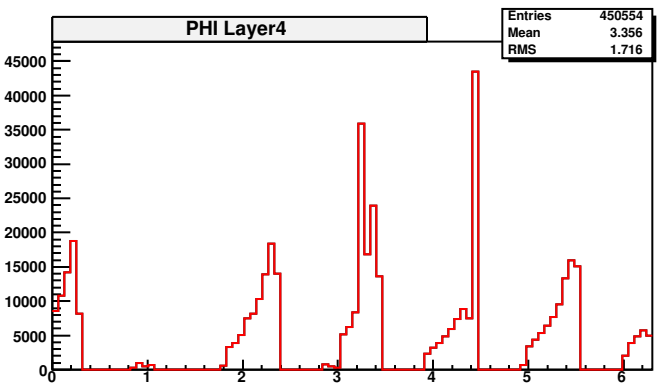



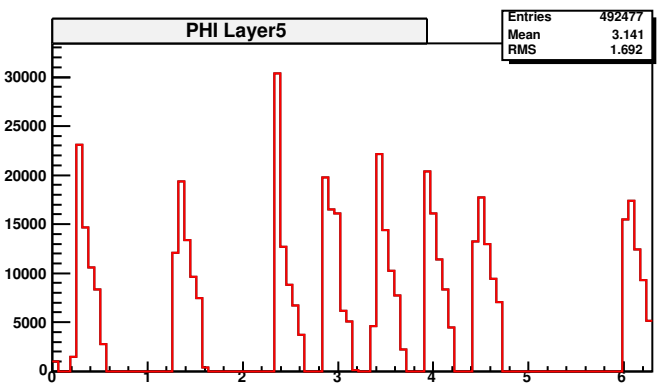

# SmtClusters (ClustrBar2)

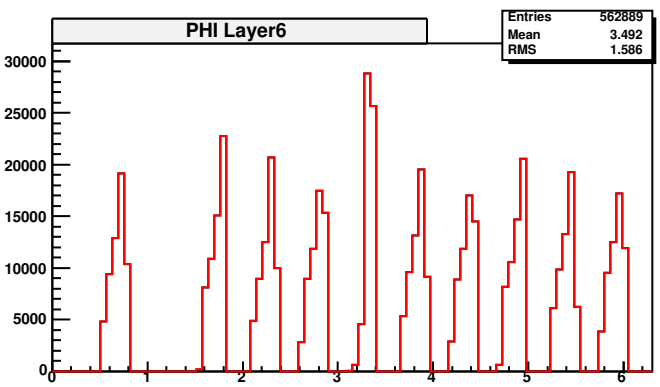


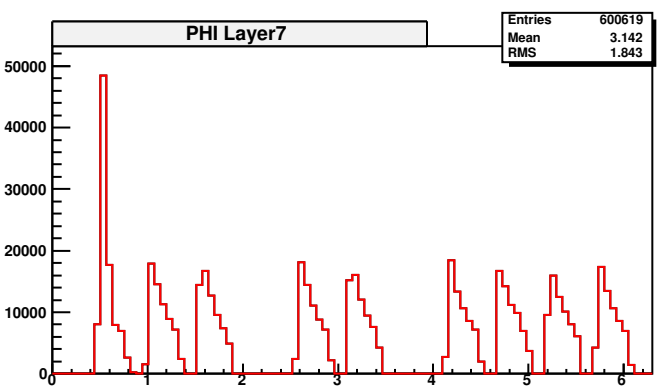



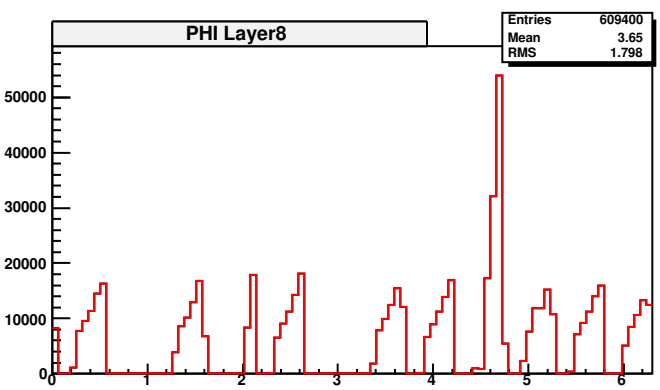



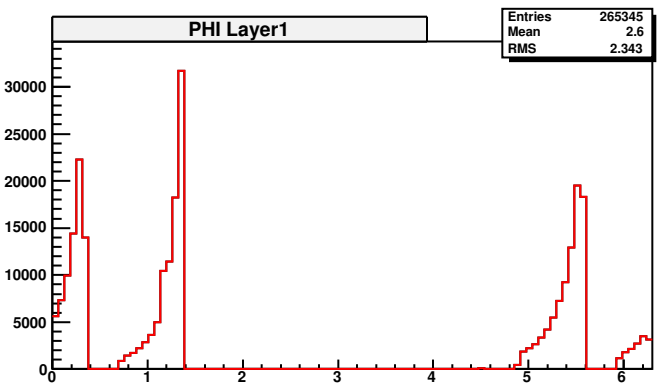



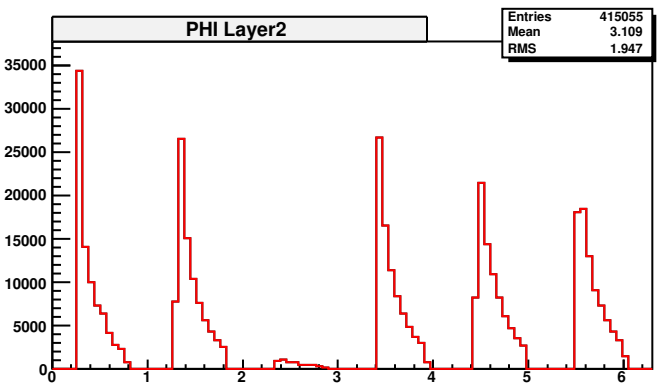



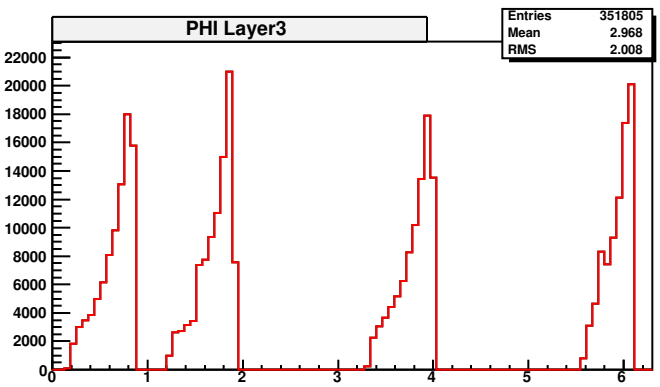



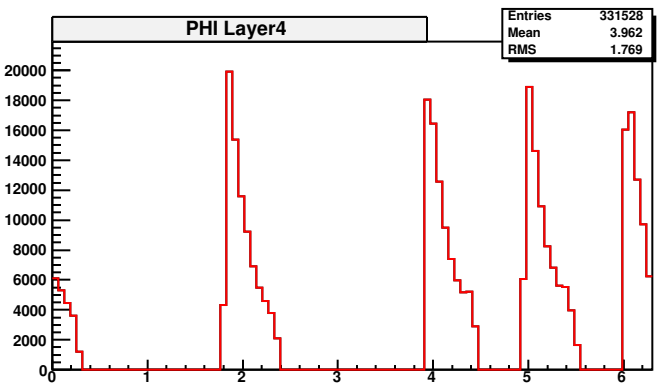



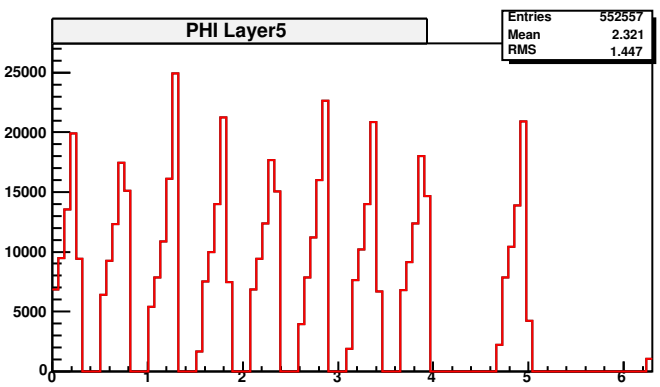

# SmtClusters (ClustrBar3)

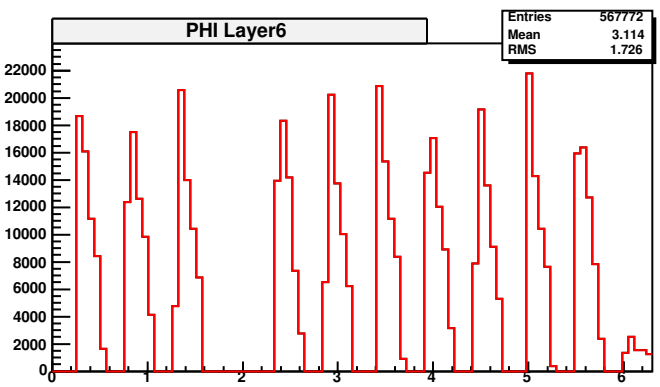


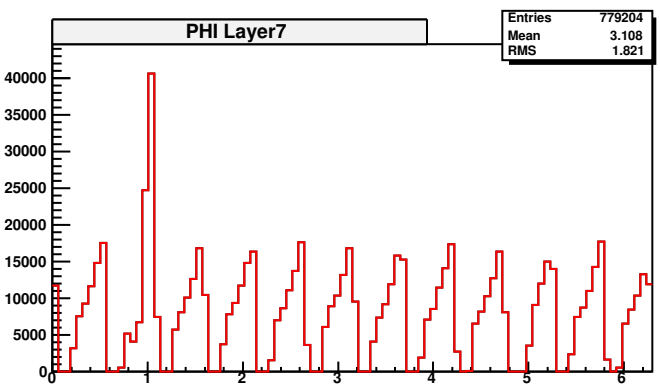



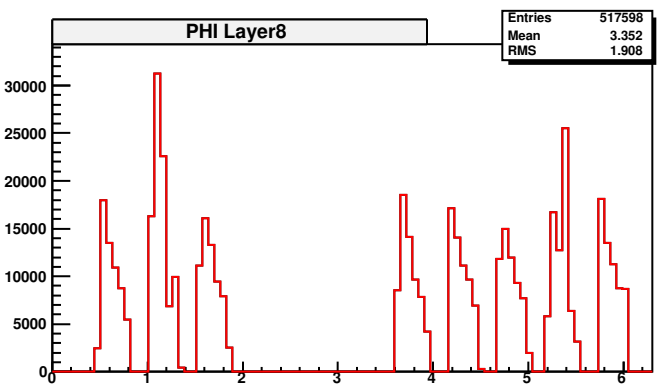



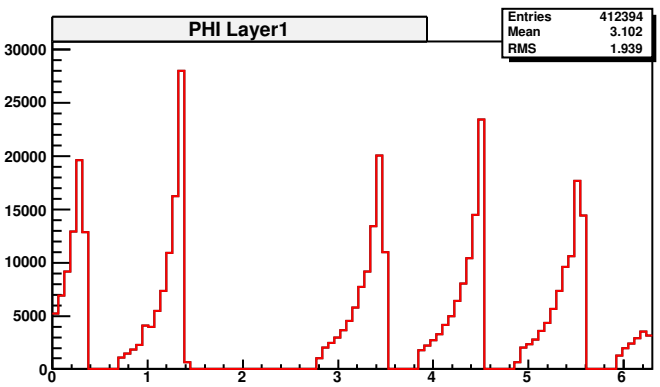



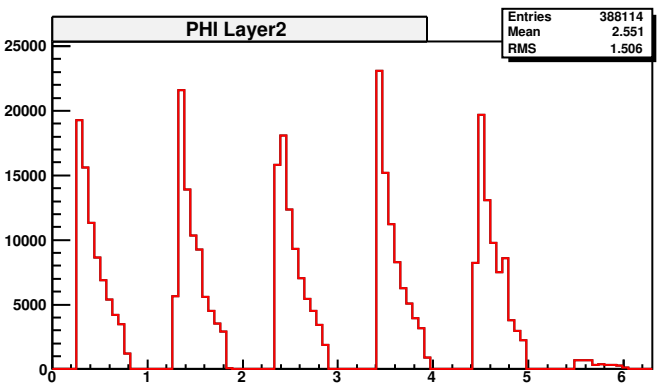



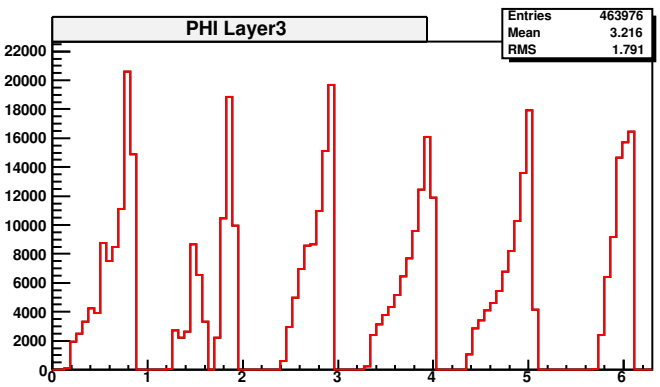



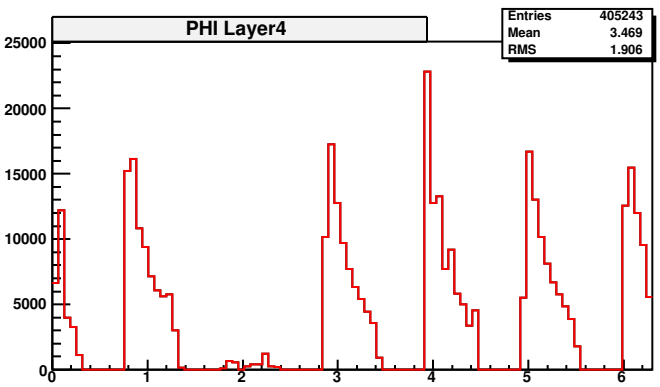



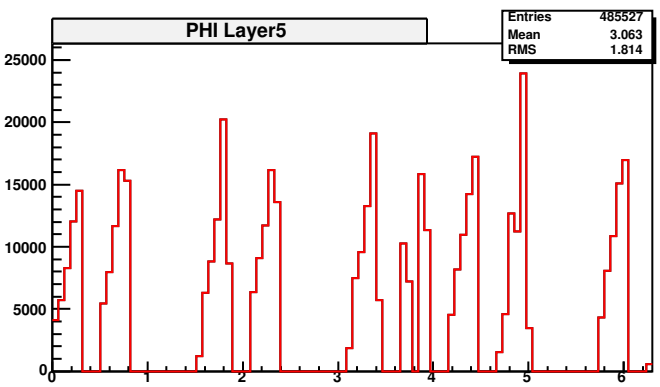

# SmtClusters (ClustrBar4)

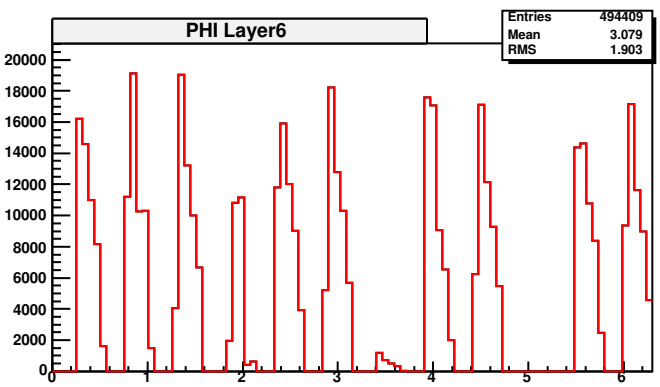


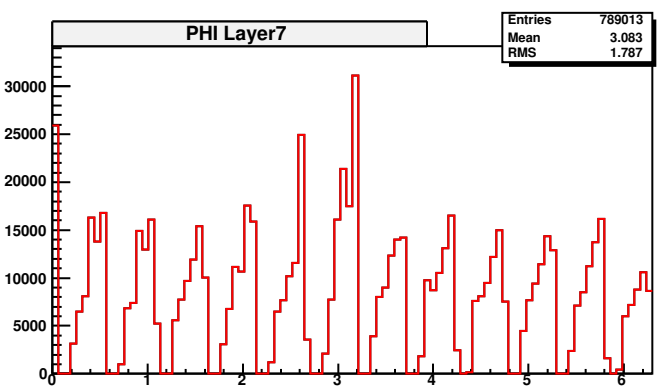



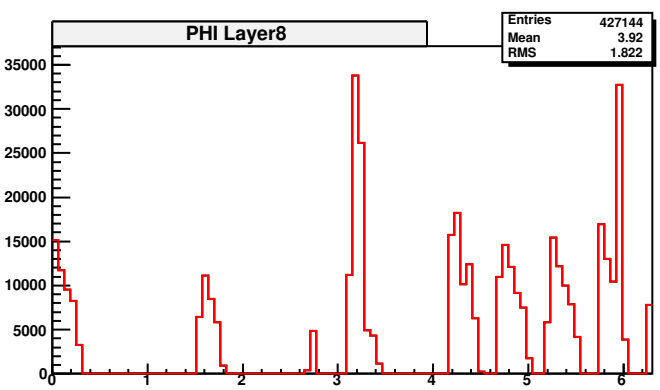



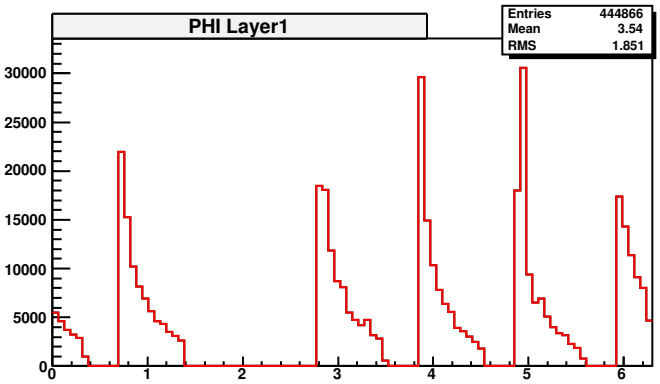



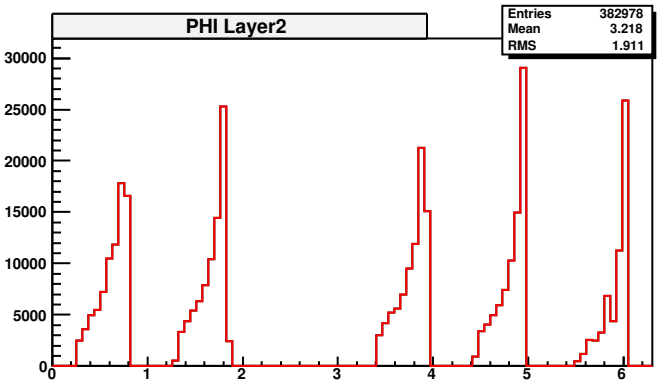



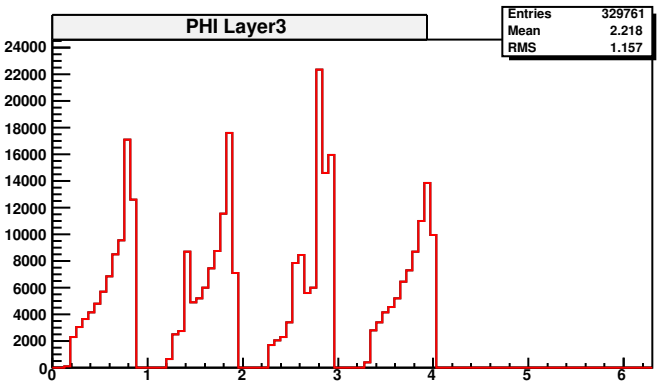



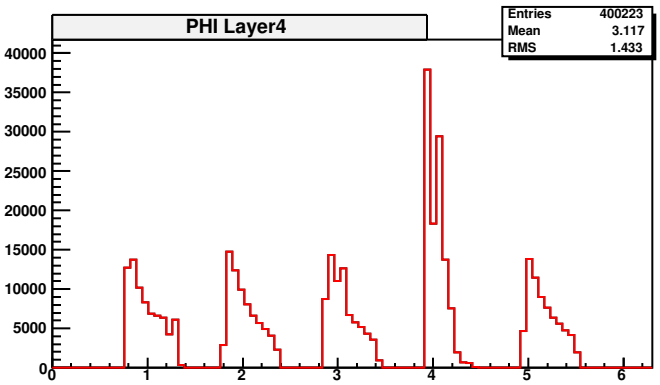



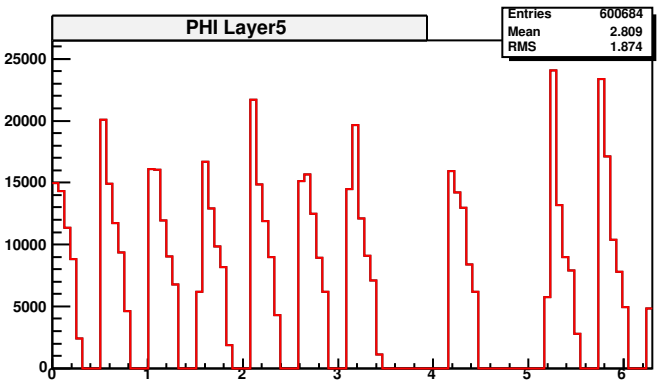

# SmtClusters (ClustrBar5)

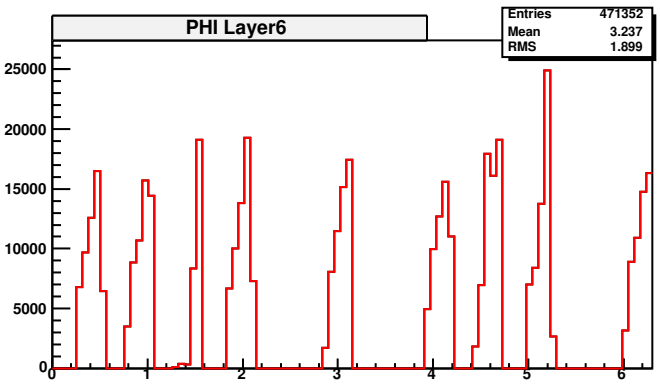


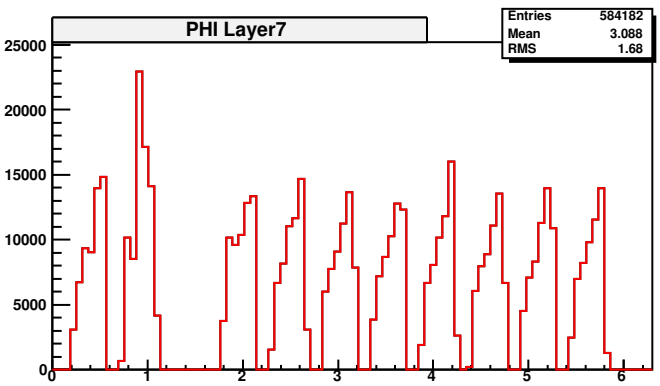



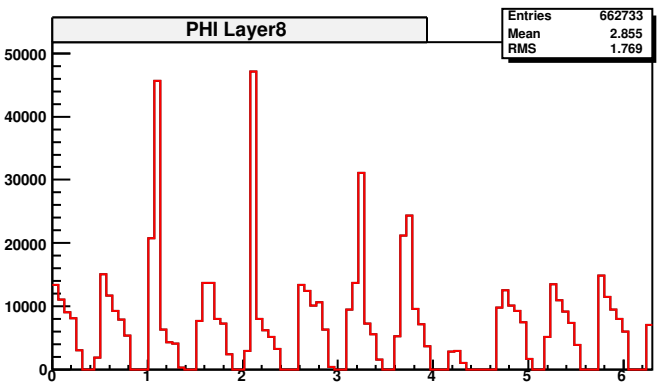



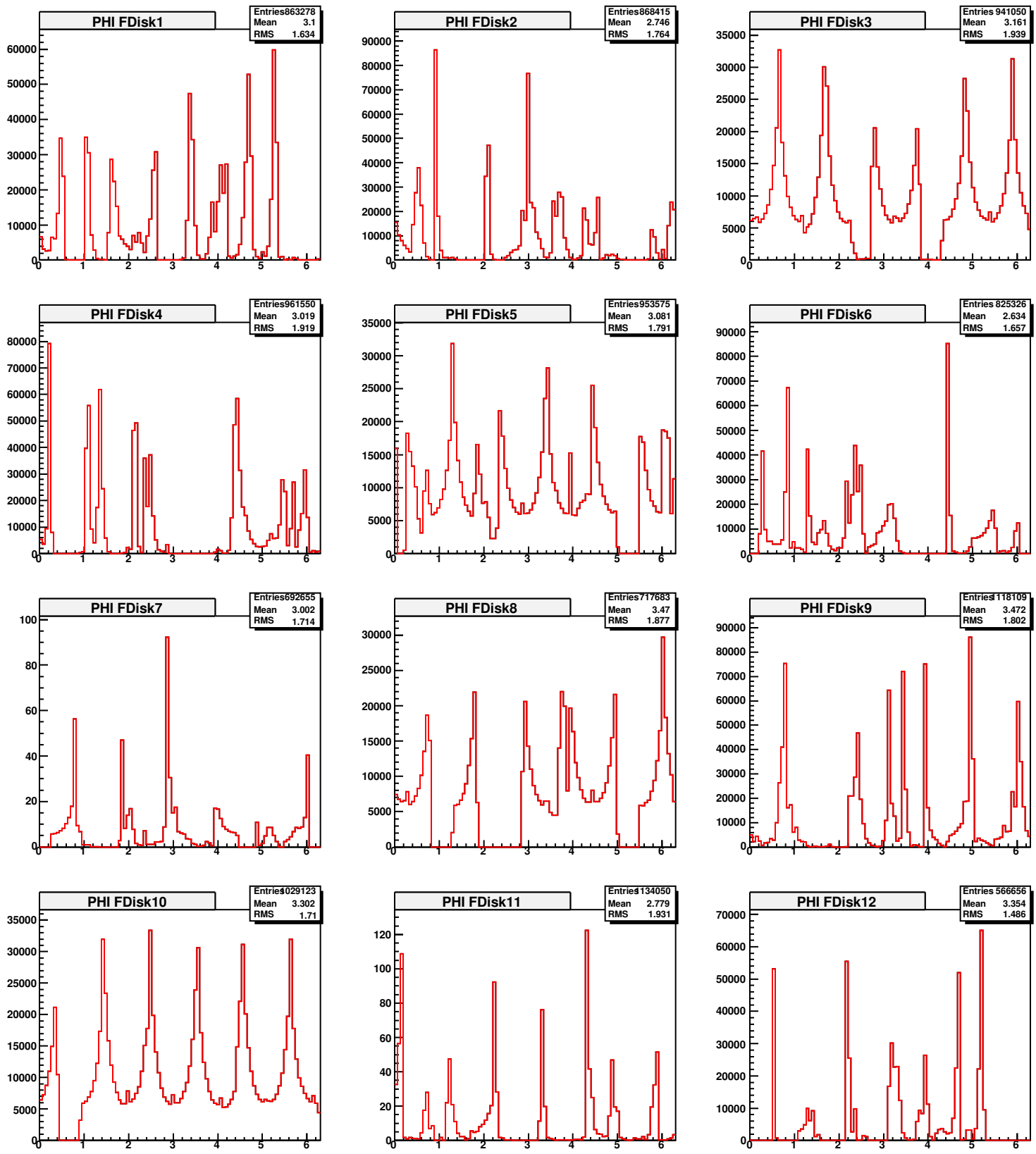



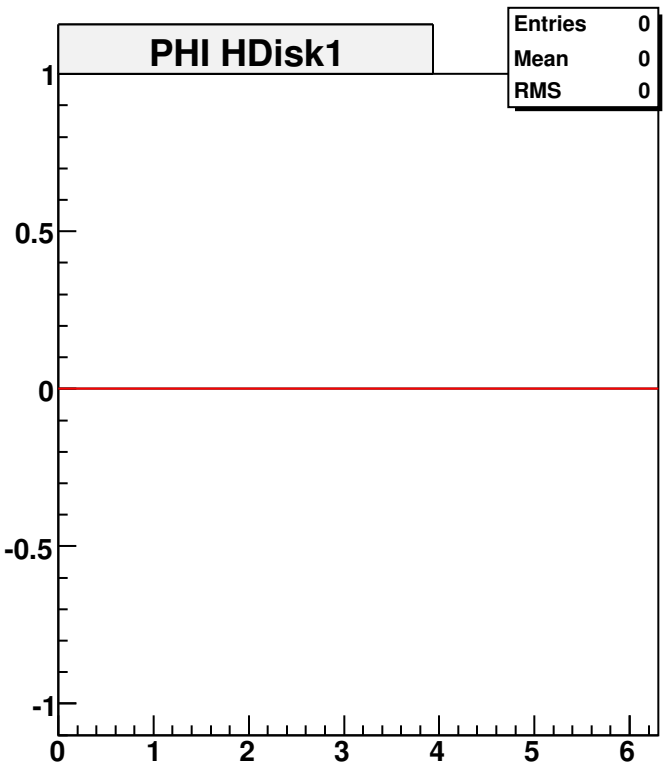



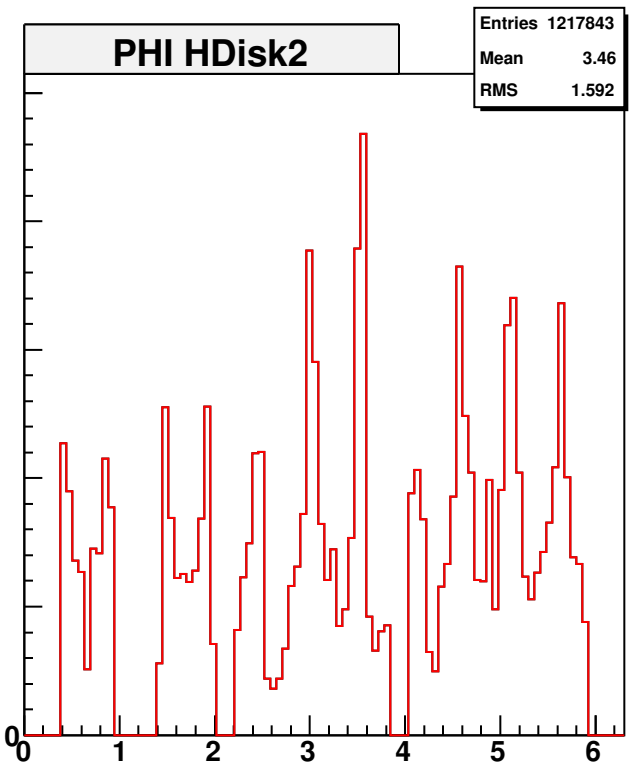



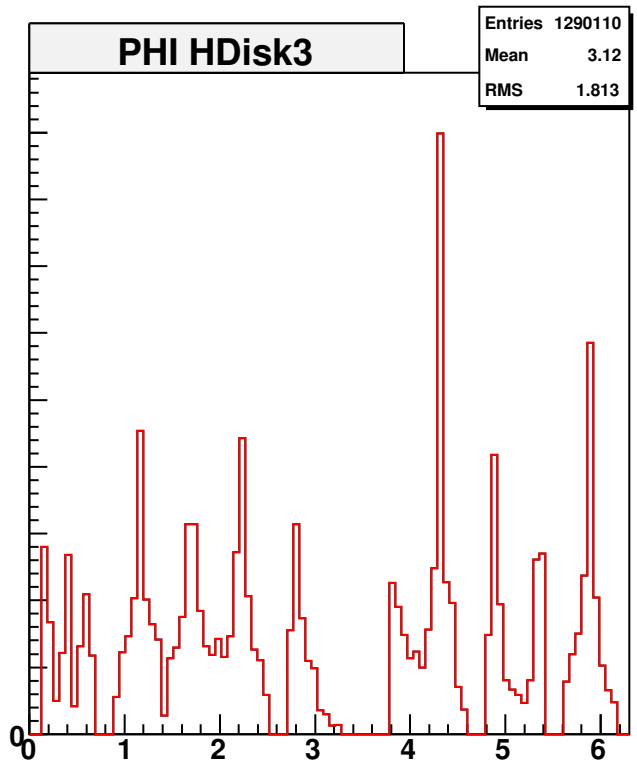

# SmtClusters (ClustrBar6)

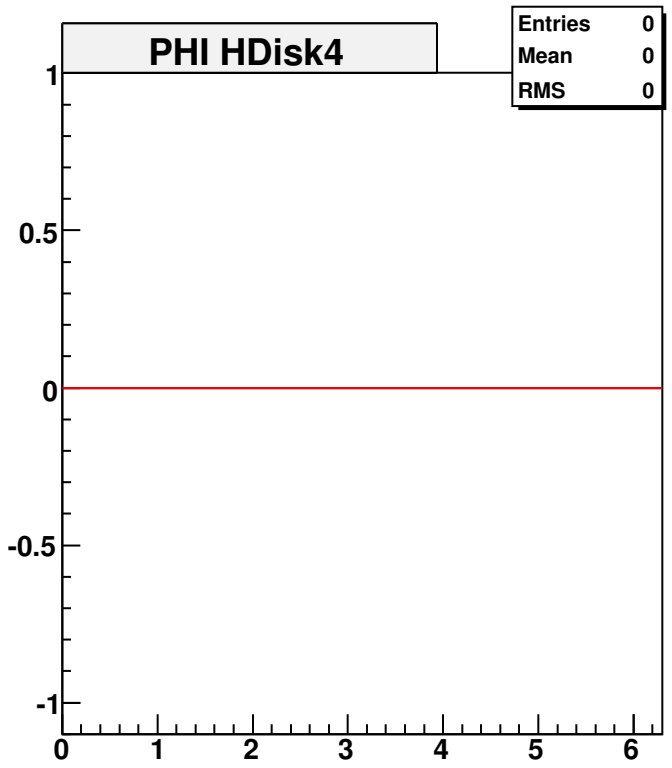



# SmtClusters (FDiskClusters)

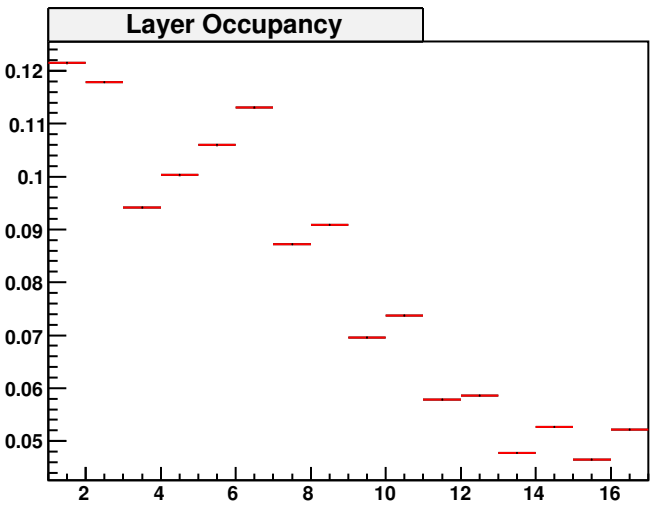


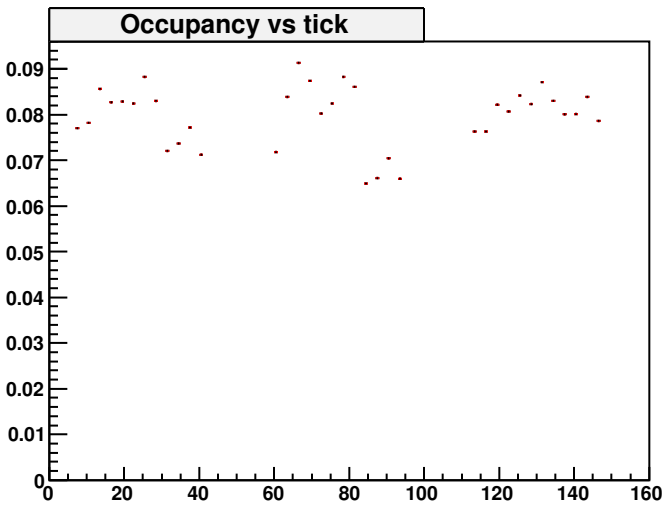



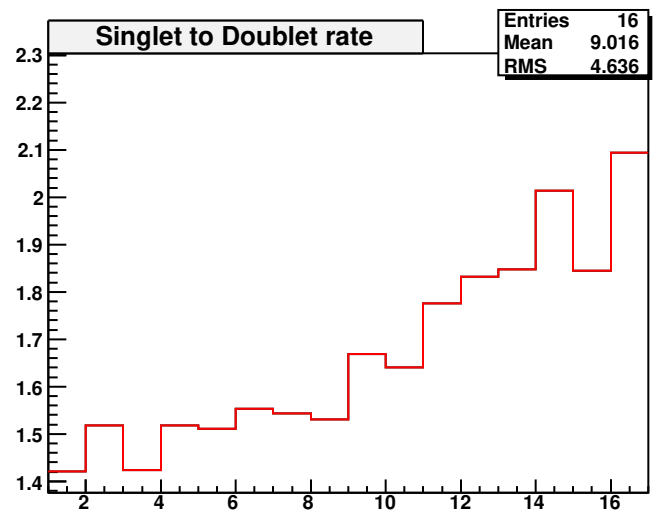



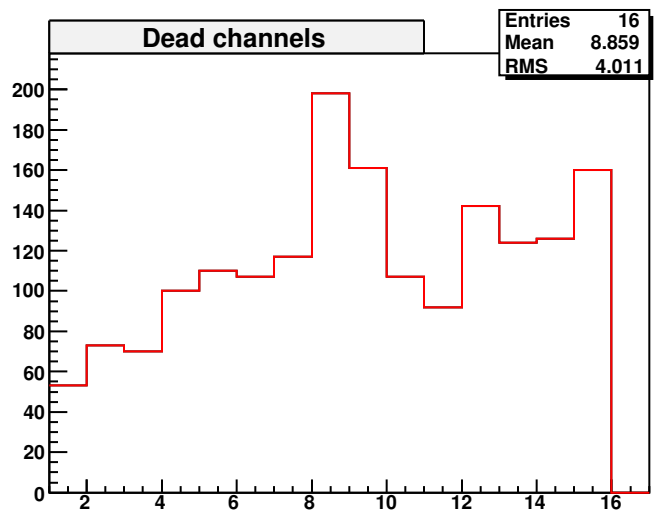



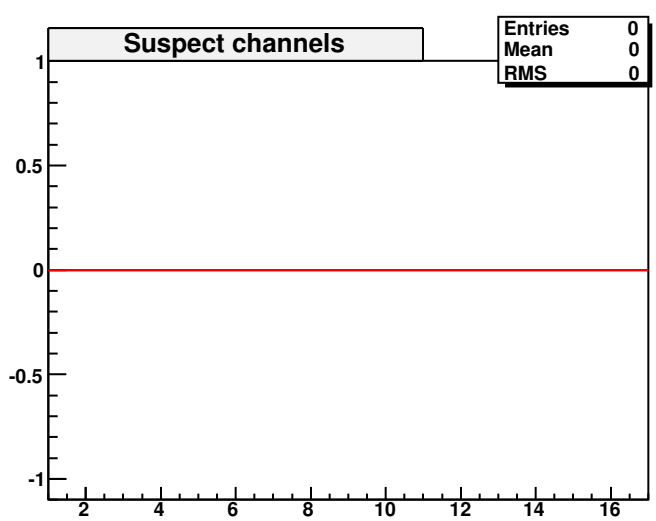

**SmtClusters (HDiskClusters)**

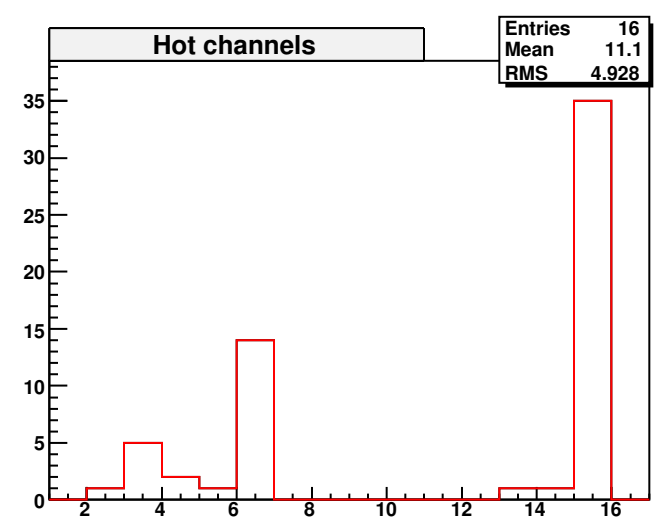


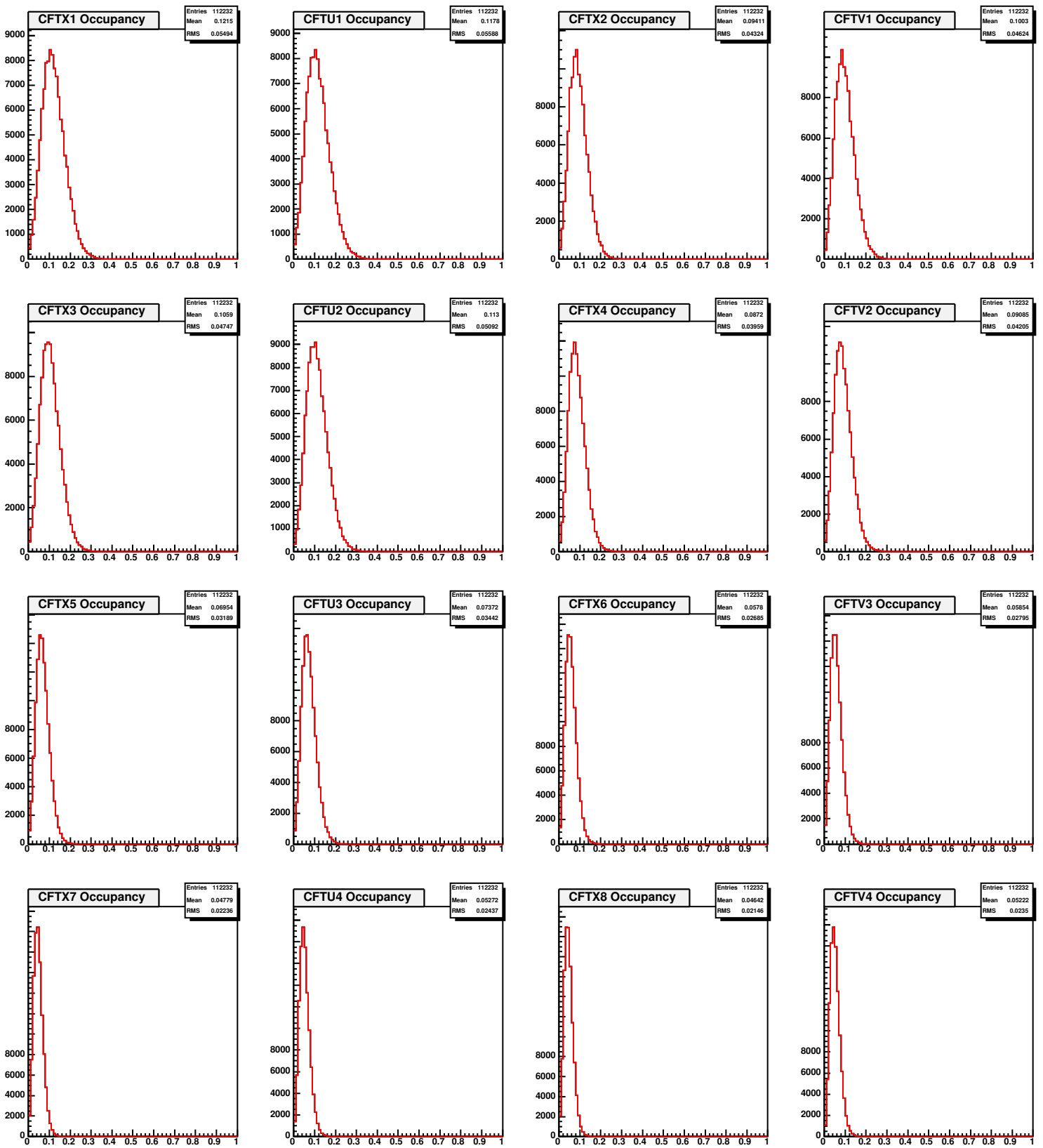



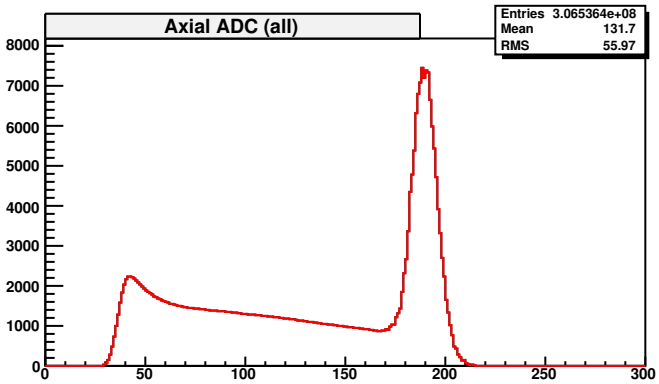



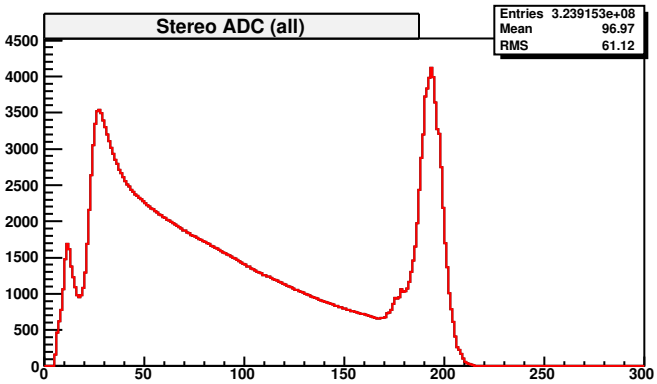



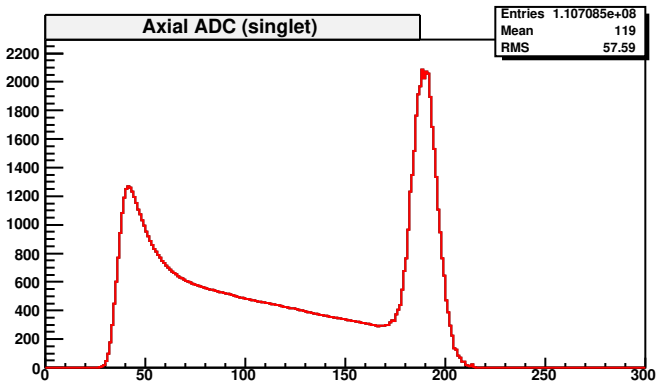

# CFT Summary (All Clusters)

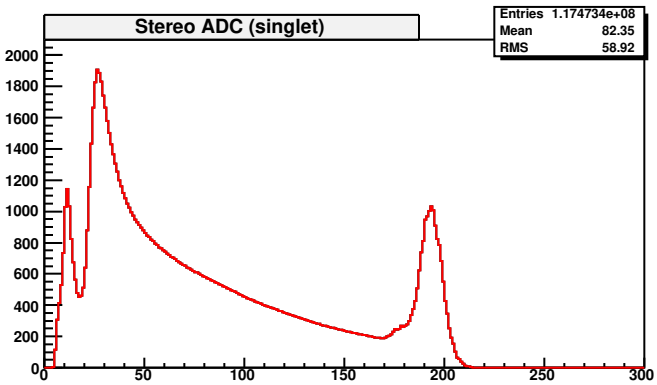


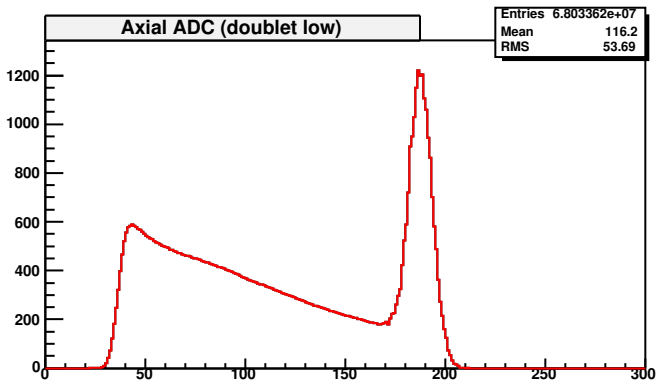

# CFT Occupancy (All Clusters)

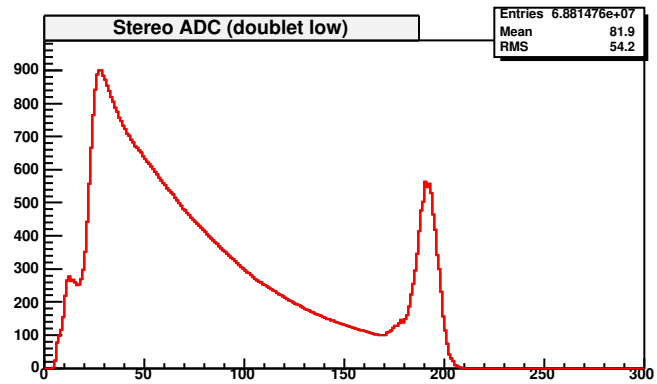


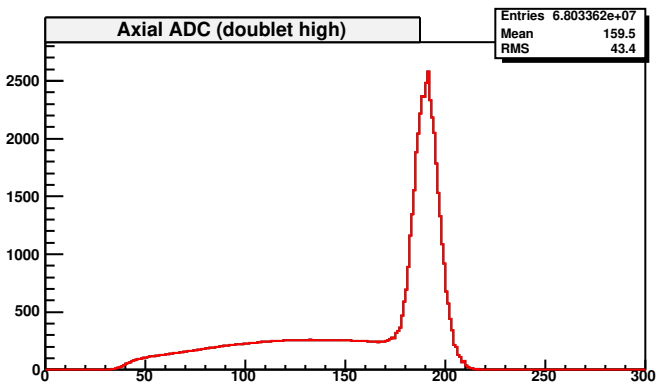



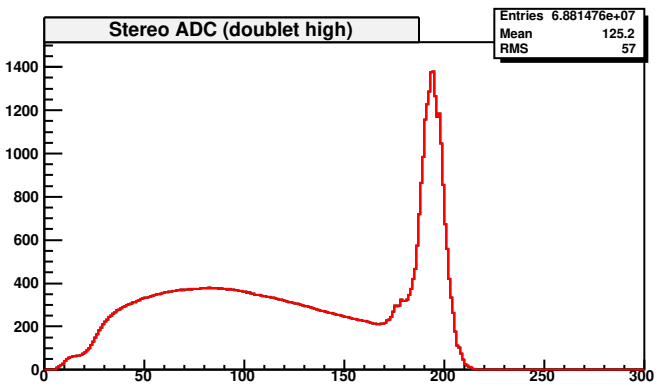



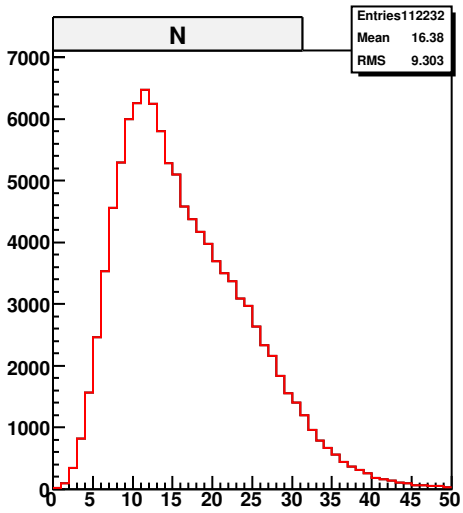



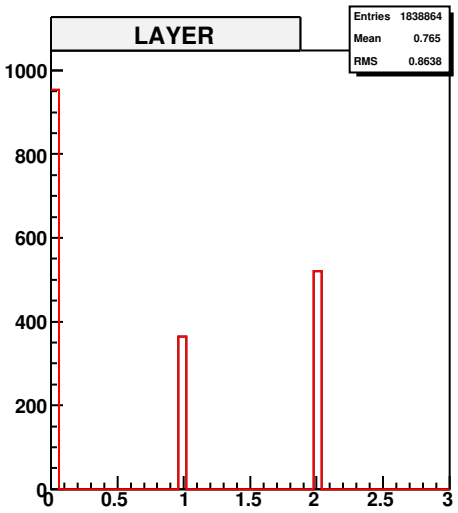



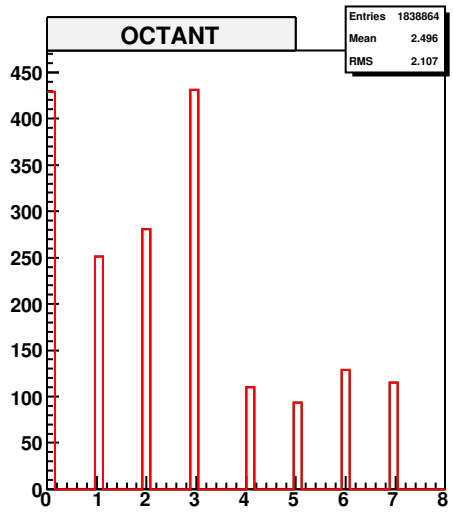



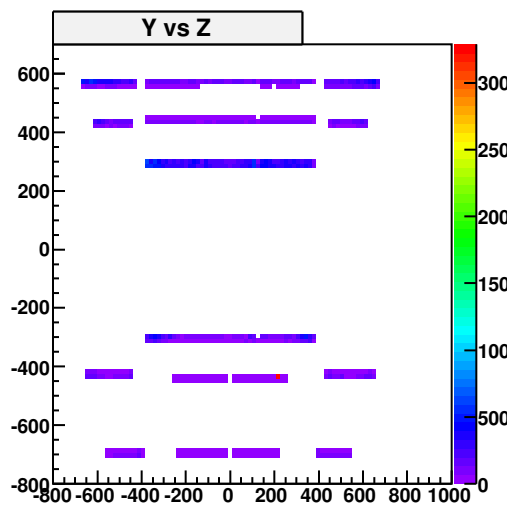



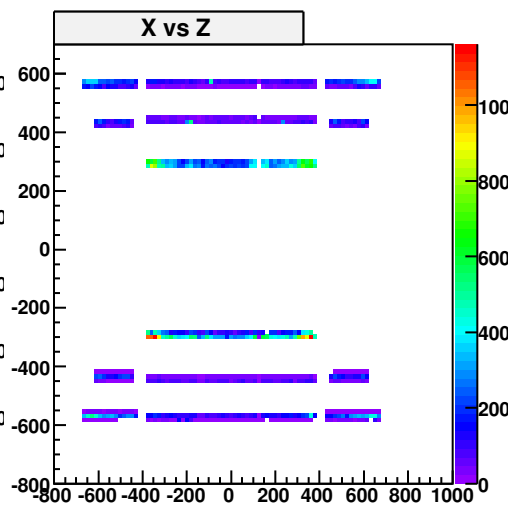

# CFT ADC Summary (All Clusters)

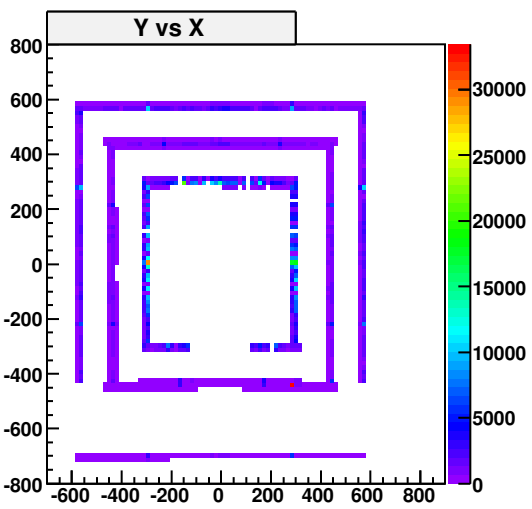

N
Entries 112232
Mean 16.38
RMS 9.303

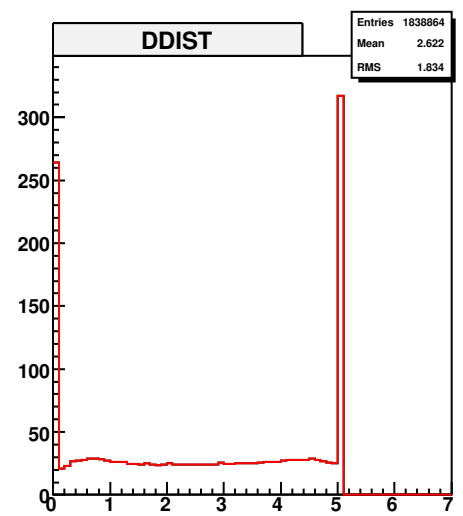

LAYER
Entries 1838864
Mean 0.765
RMS 0.8638

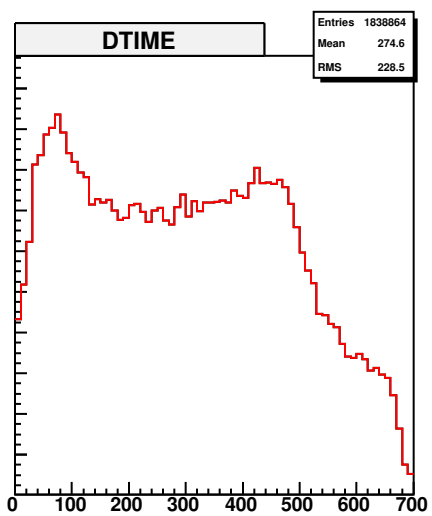

OCTANT
Entries 1838864
Mean 2.496
RMS 2.107


Y vs Z

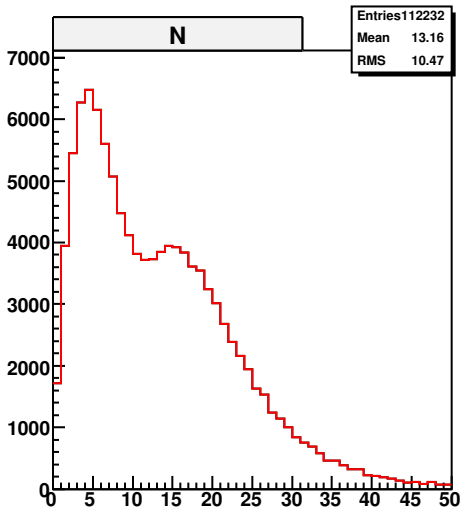

X vs Z

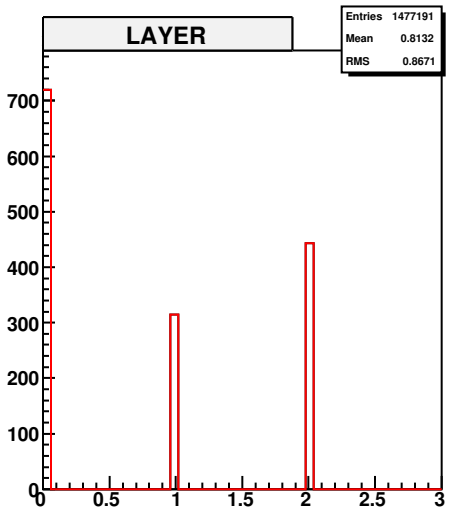

Y vs X

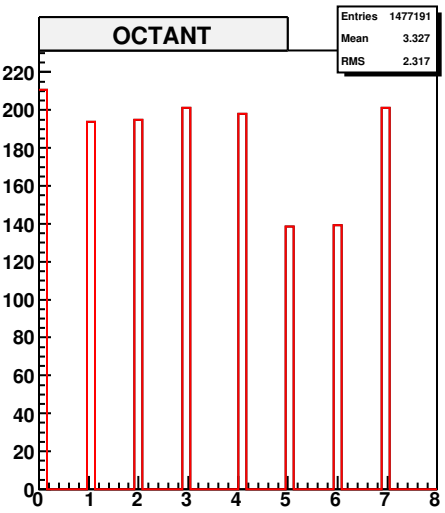

DDIST
Entries 1838864
Mean 2.622
RMS 1.834

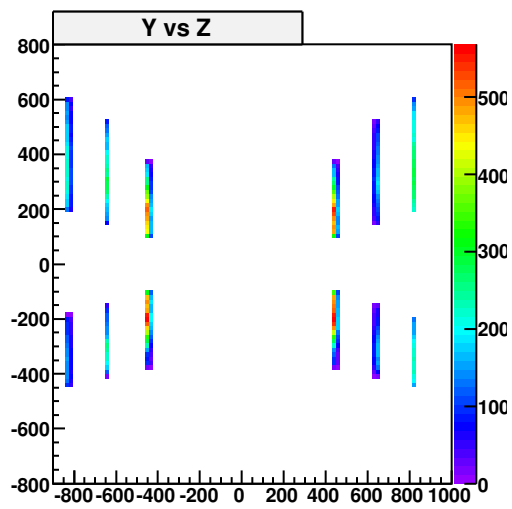

DTIME
Entries 1838864
Mean 274.6
RMS 228.5

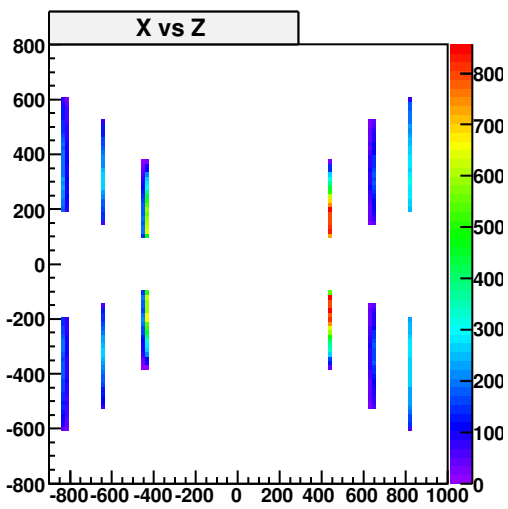
# MuonPDT (All)

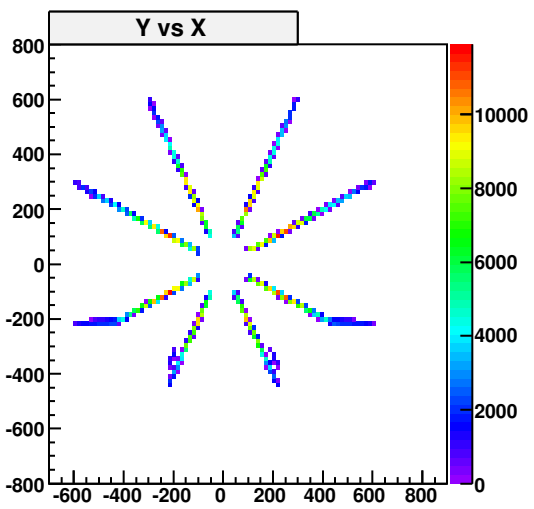

N
Entries 112232
Mean 13.16
RMS 10.47

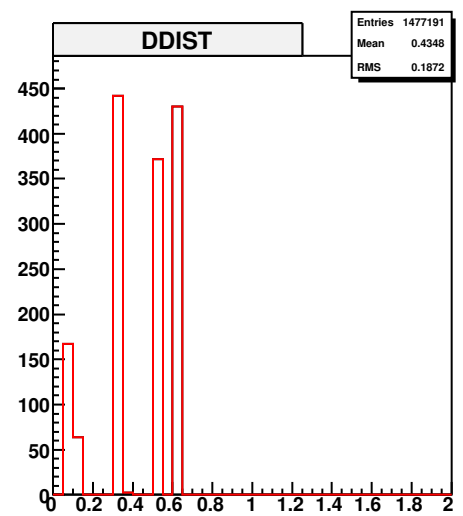

LAYER
Entries 1477191
Mean 0.8132
RMS 0.8671

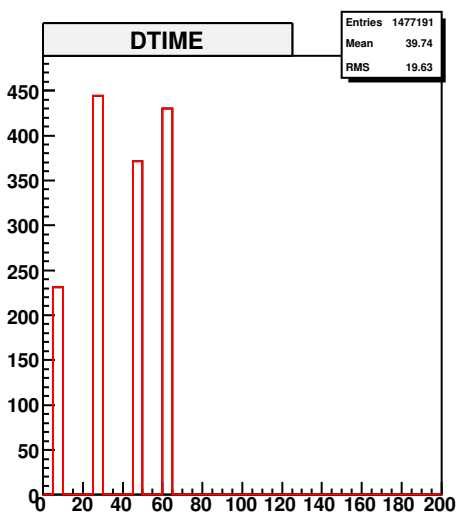

OCTANT
Entries 1477191
Mean 3.327
RMS 2.317


Y vs Z

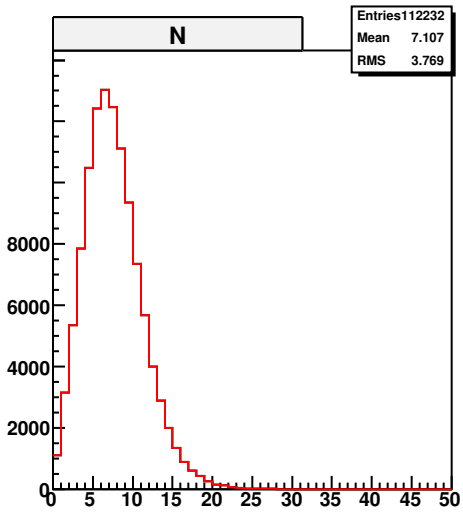

X vs Z

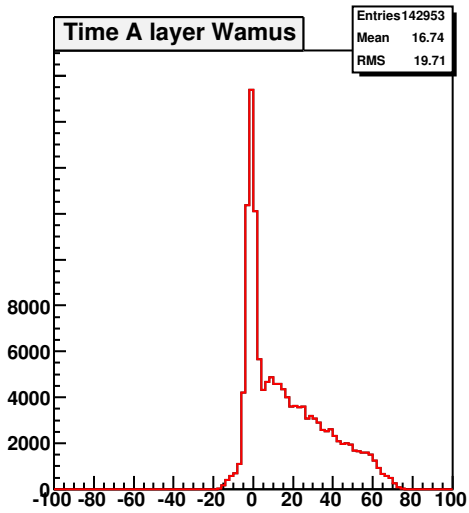

Y vs X

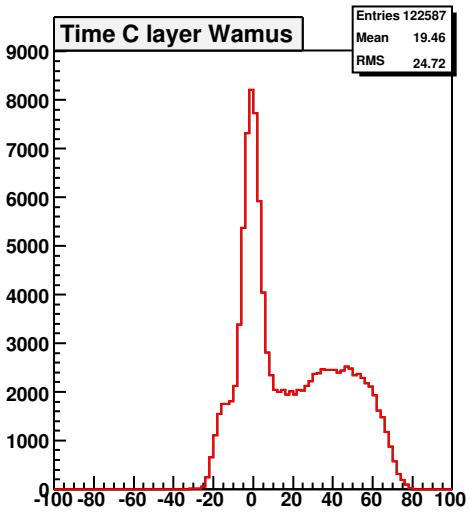

DDIST
Entries 1477191
Mean 0.4348
RMS 0.1872

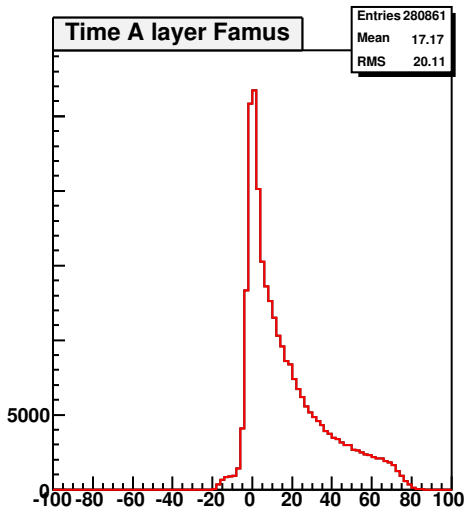

DTIME
Entries 1477191
Mean 39.74
RMS 19.63

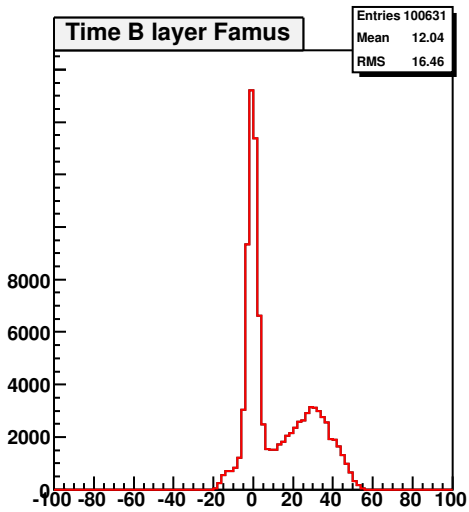
**MuonMDT (All)**

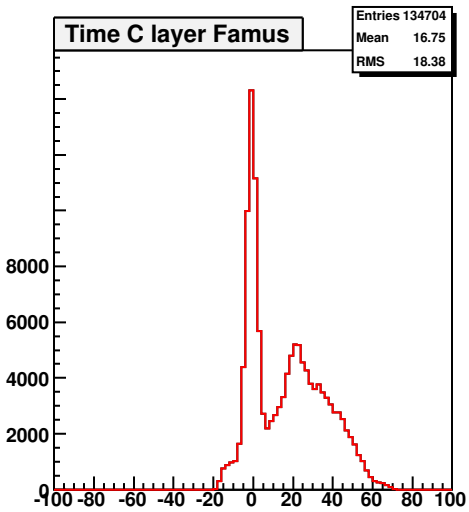

N
Entries 112232
Mean 7.107
RMS 3.769

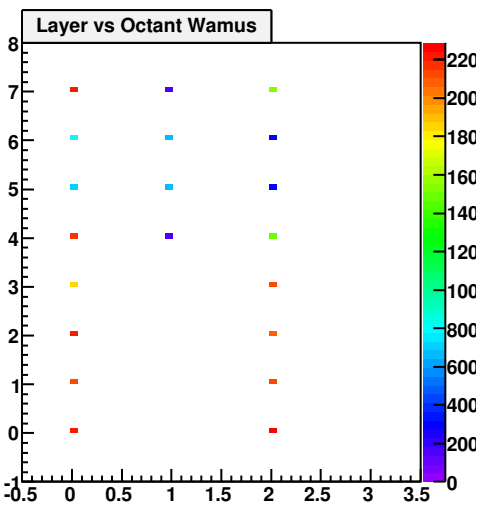

Time A layer Wamus
Entries 142953
Mean 16.74
RMS 19.71

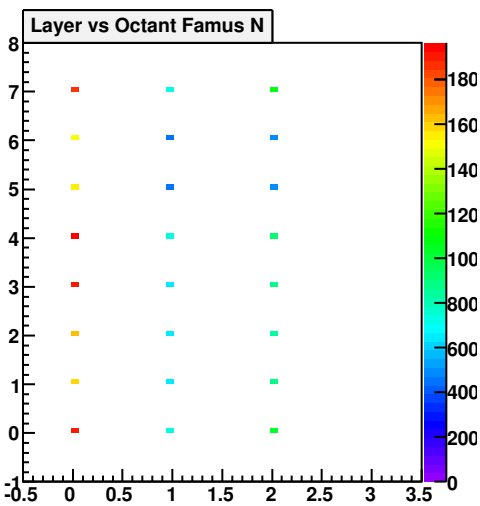

Time C layer Wamus
Entries 122587
Mean 19.46
RMS 24.72

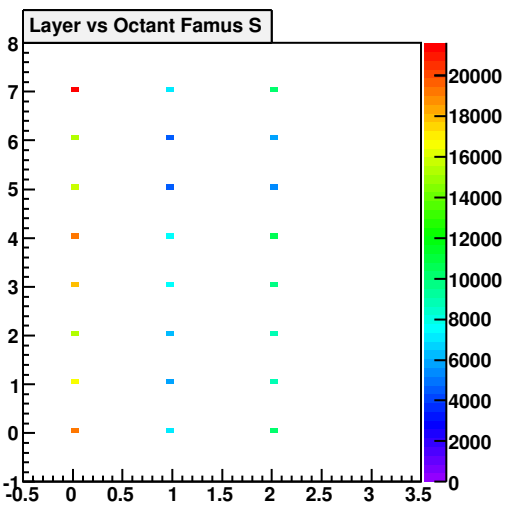

Time A layer Famus
Entries 280861
Mean 17.17
RMS 20.11


Time B layer Famus
Entries 100631
Mean 12.04
RMS 16.46

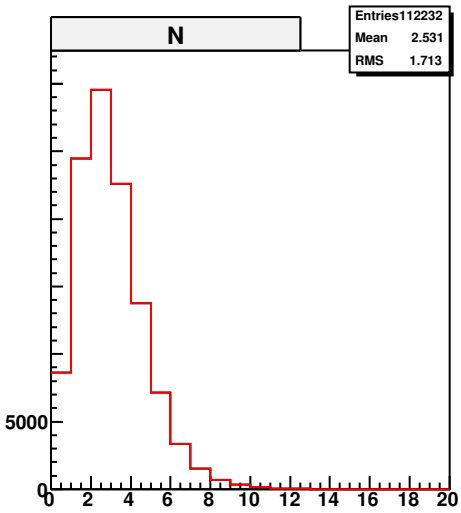

Time C layer Famus
Entries 134704
Mean 16.75
RMS 18.38

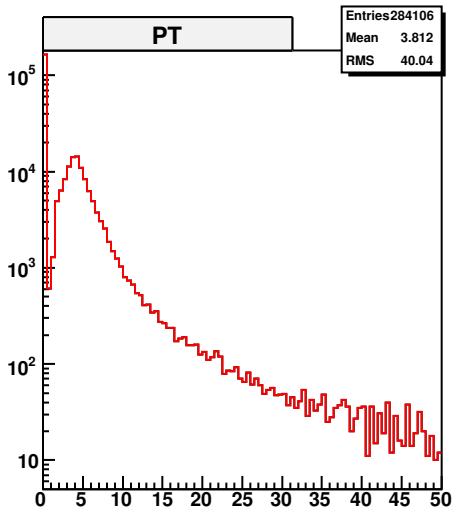

Layer vs Octant Wamus

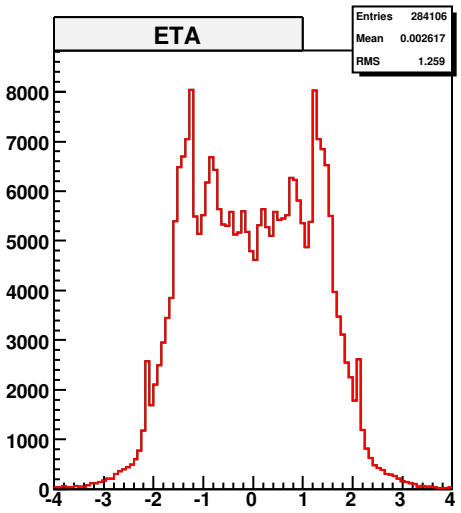

Layer vs Octant Famus N

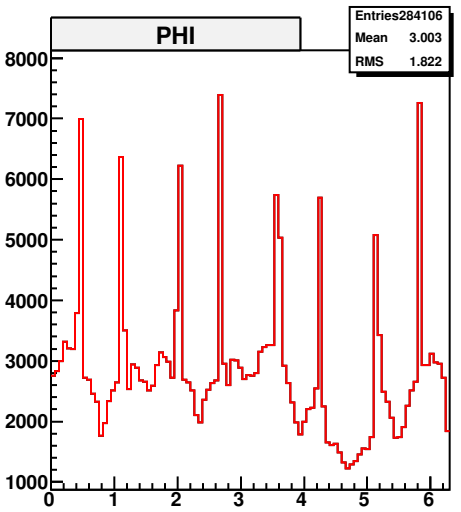

Layer vs Octant Famus S

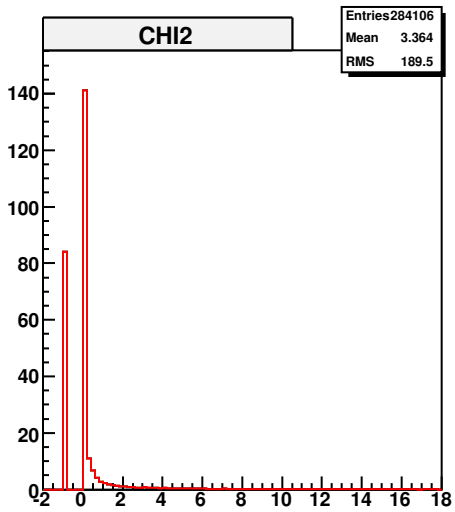
# MuonMSC (All)

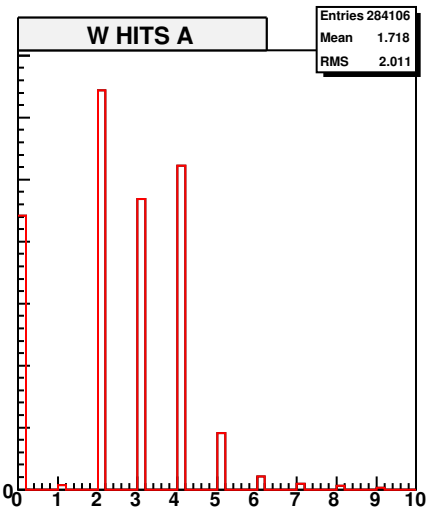


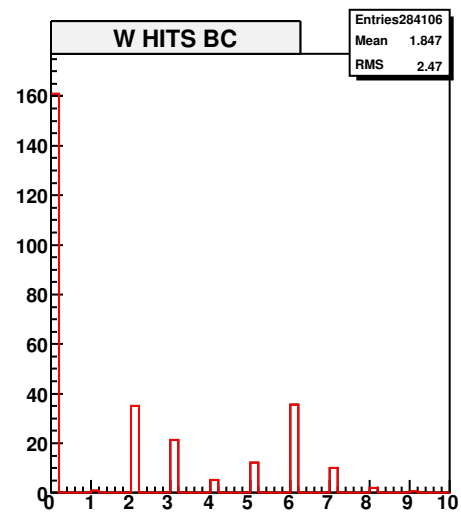



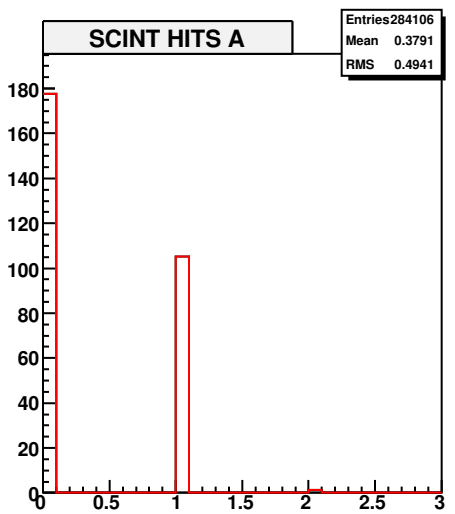



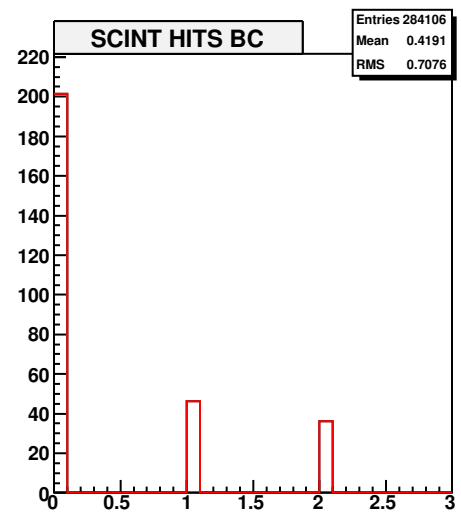



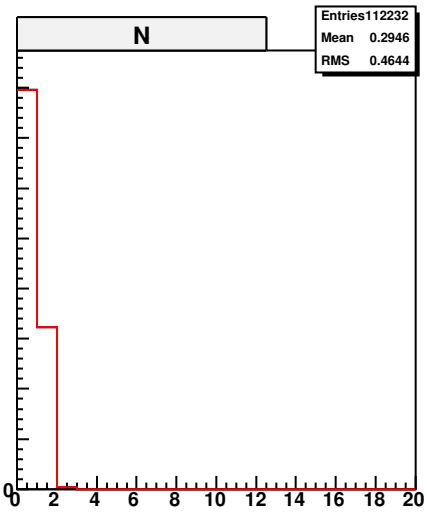



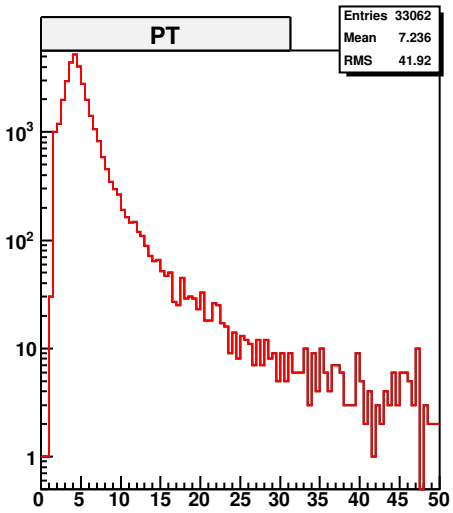



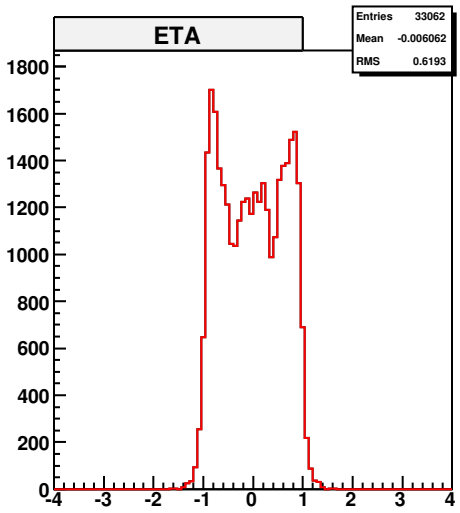



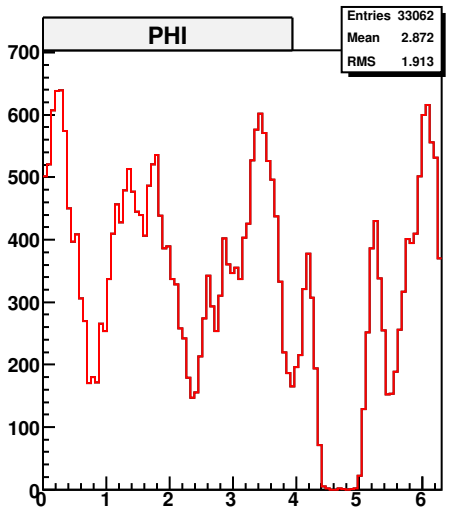



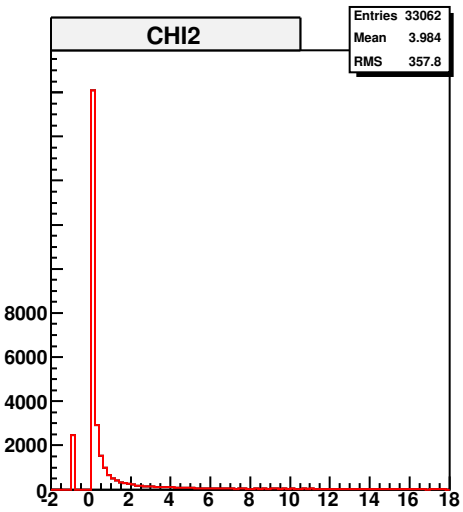

# Muon Local Tracks (All)

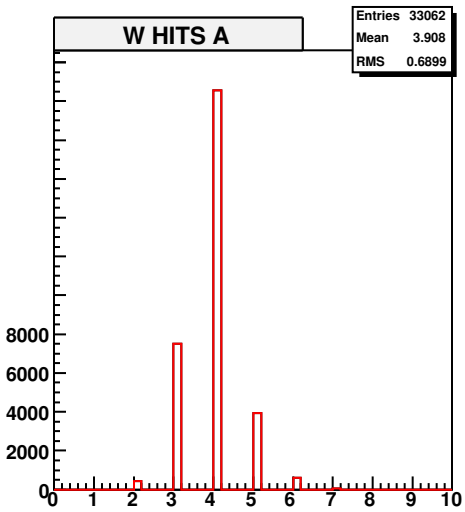


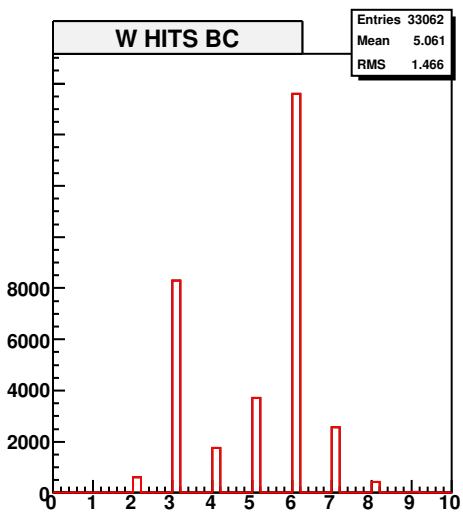



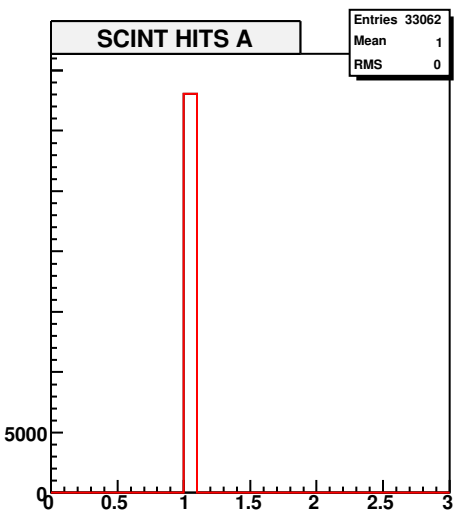



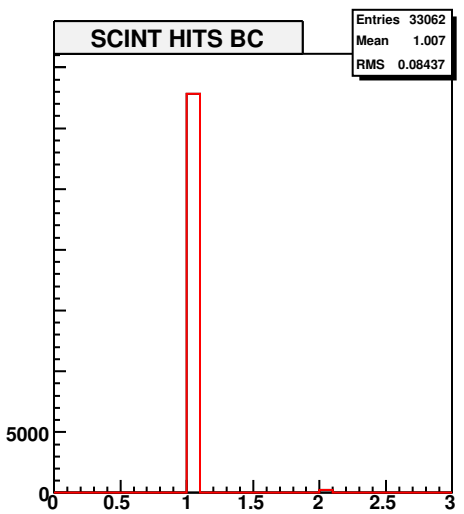



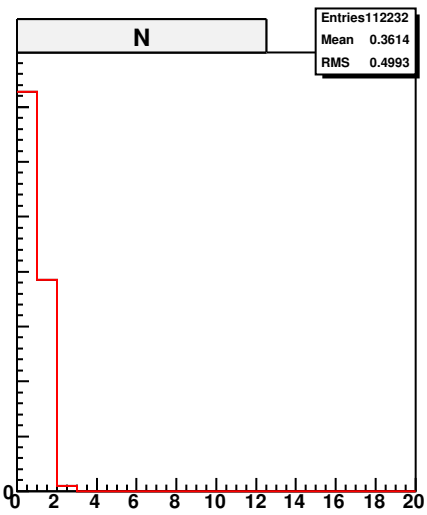



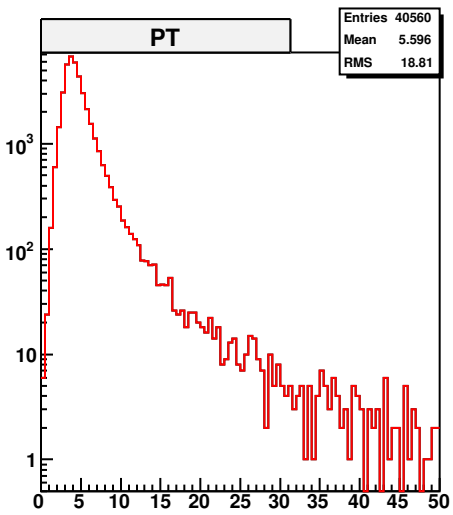



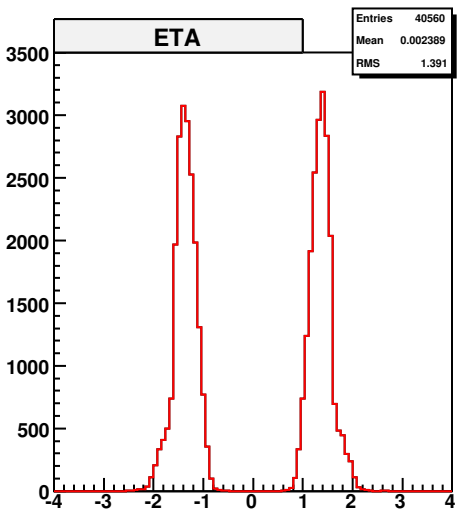



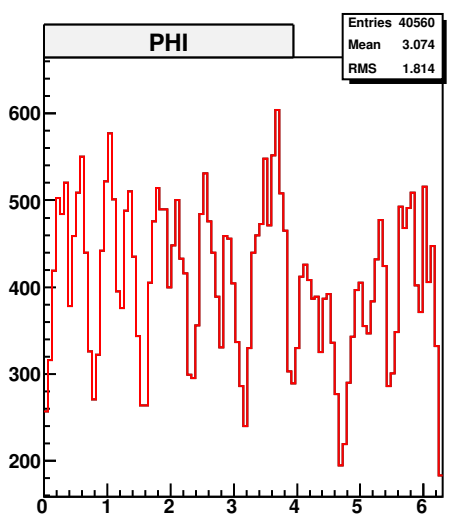



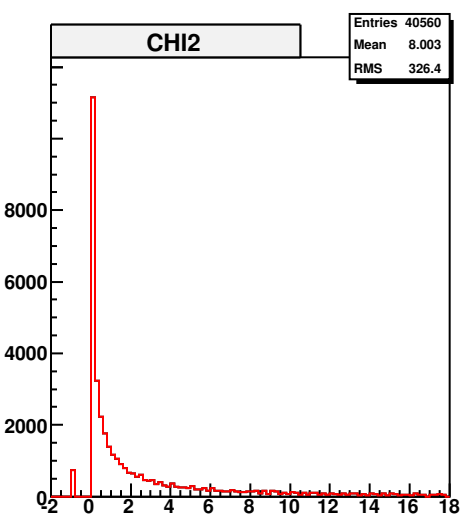

# Muon Local Tracks (MediumWamus)

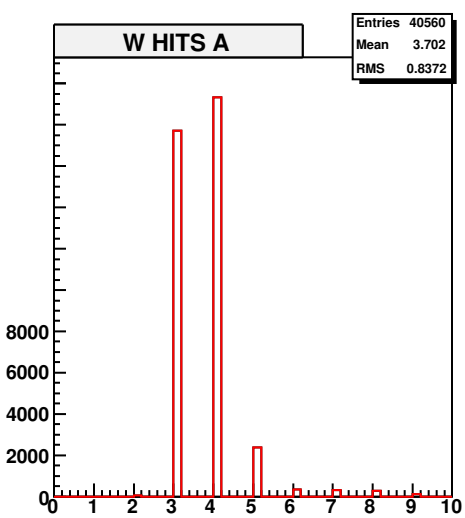


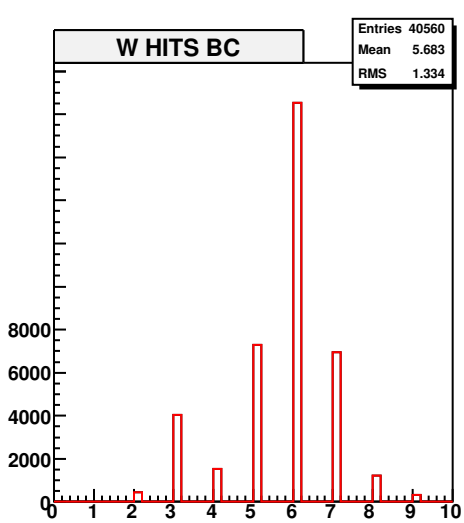



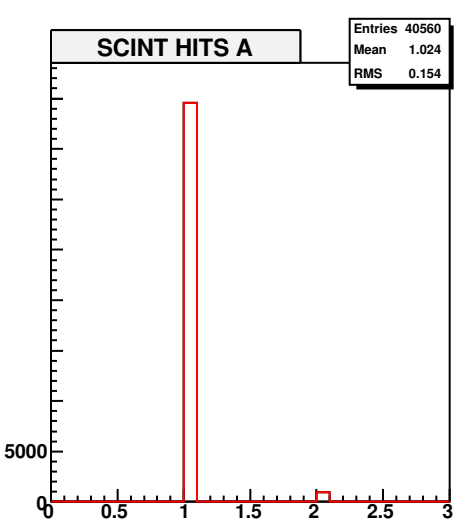



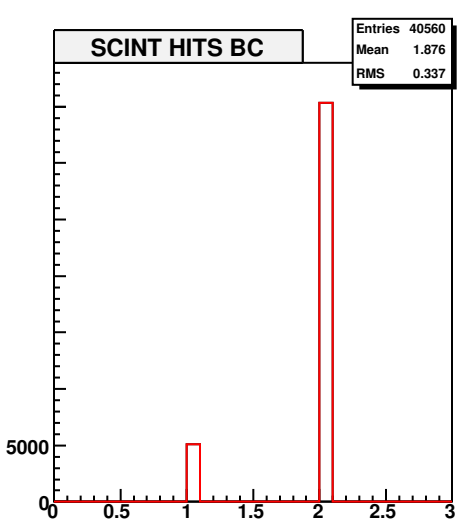



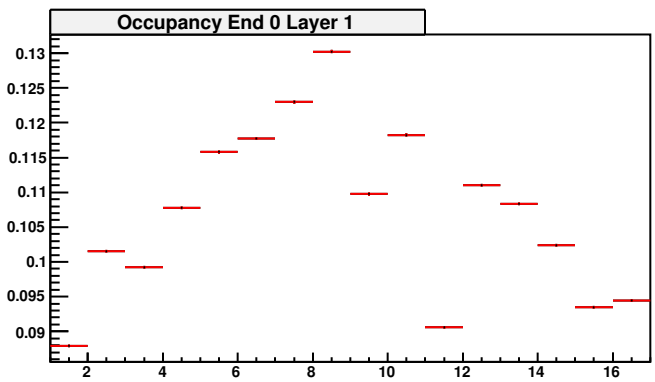



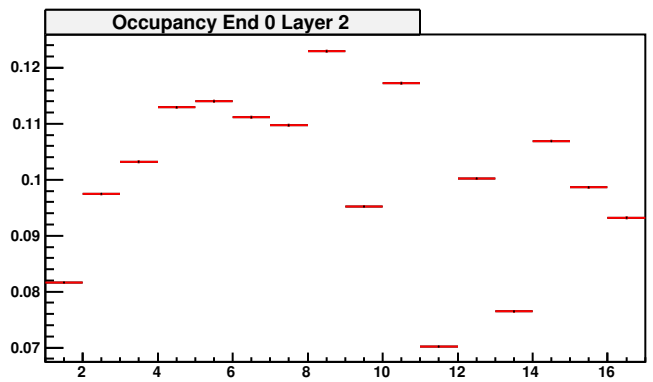



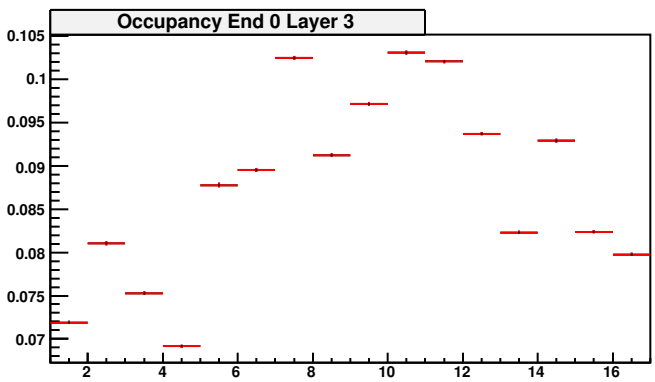



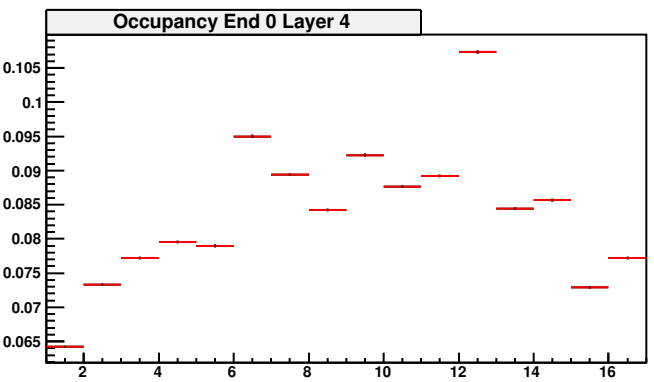



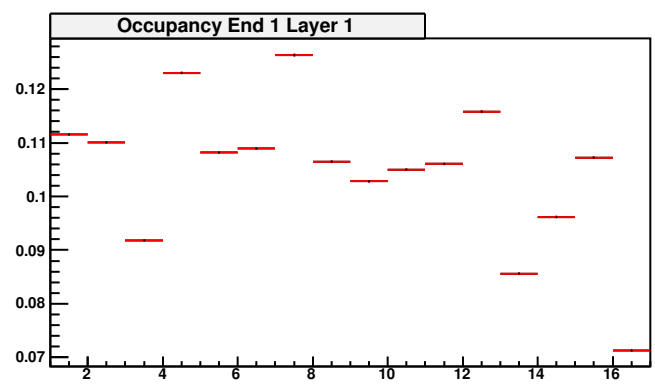

# Muon Local Tracks (MediumFamus)

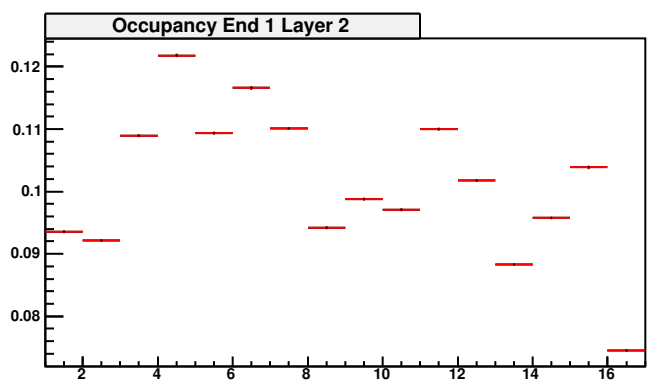


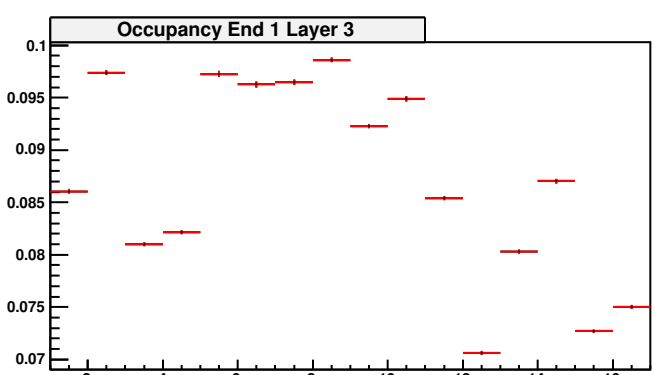



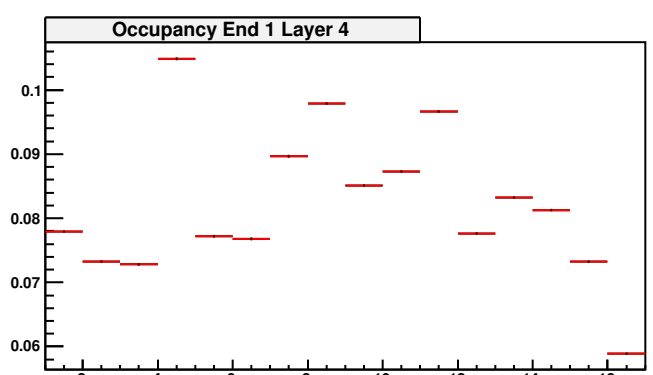



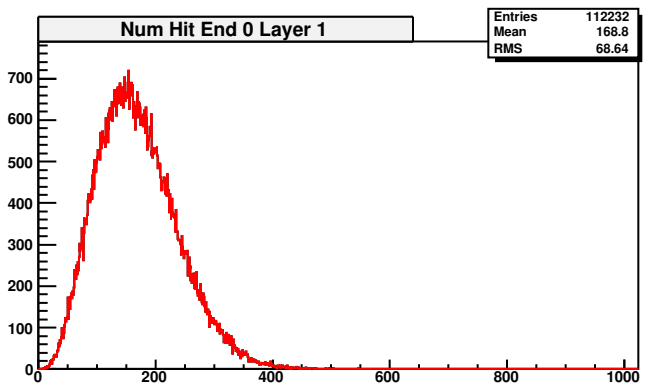



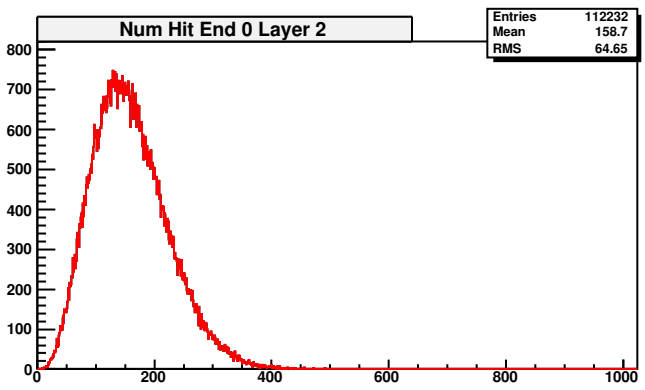



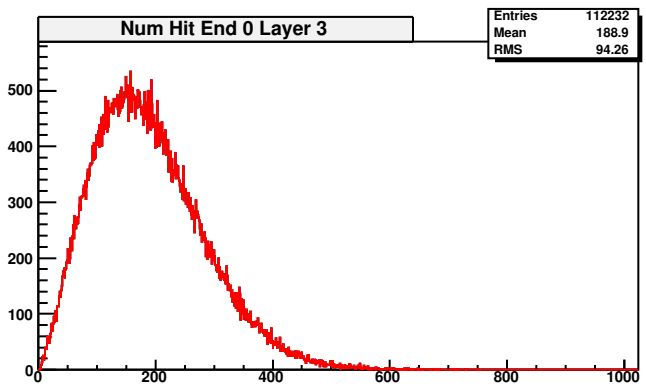



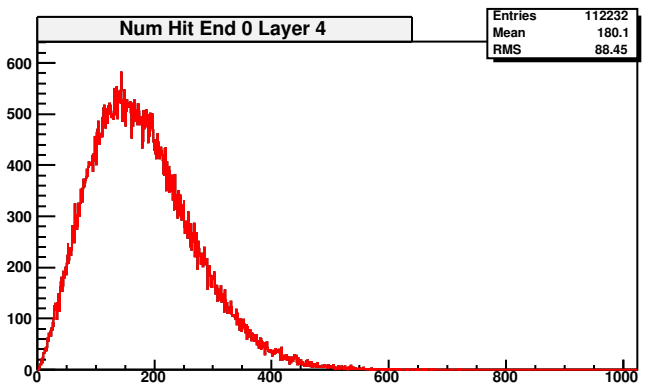



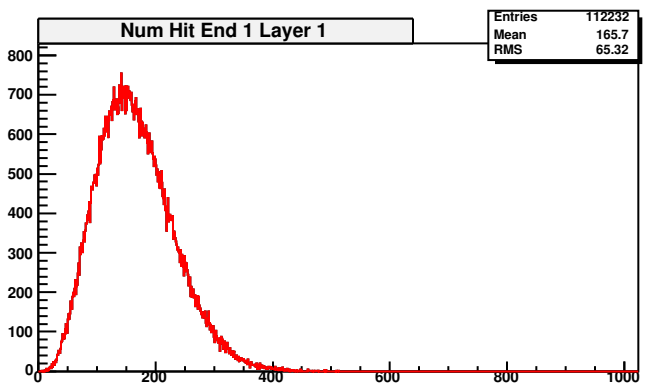

# FPS Hit Occupancy (All)

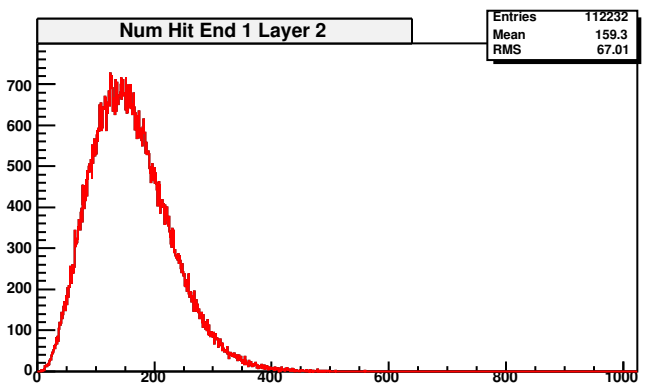


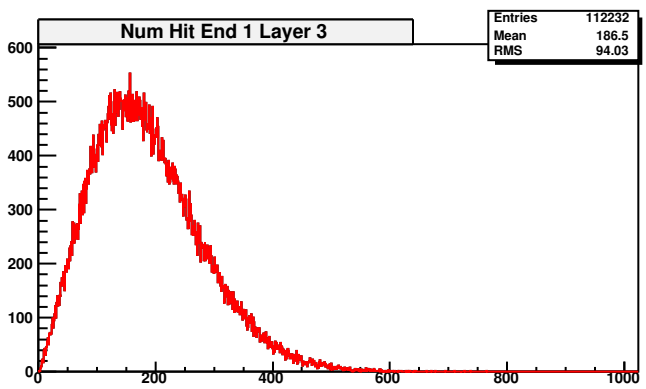



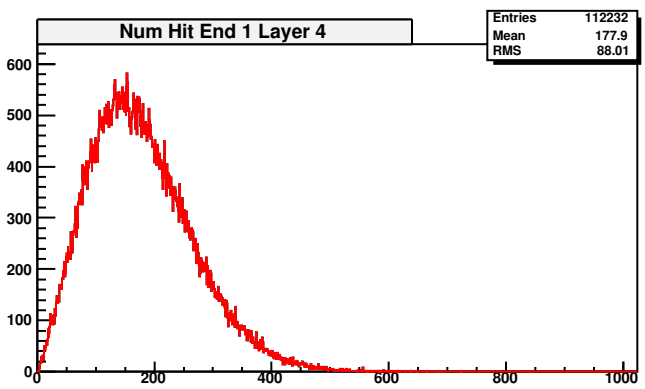



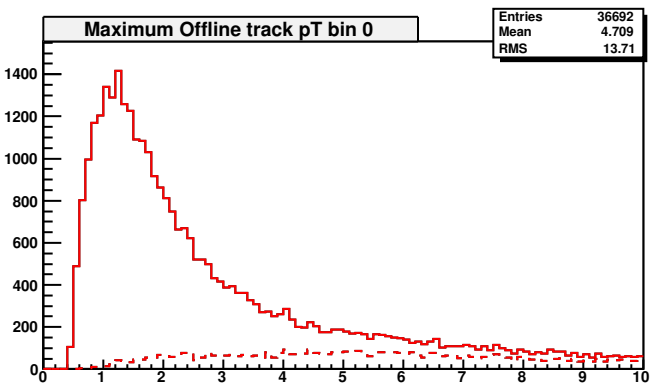



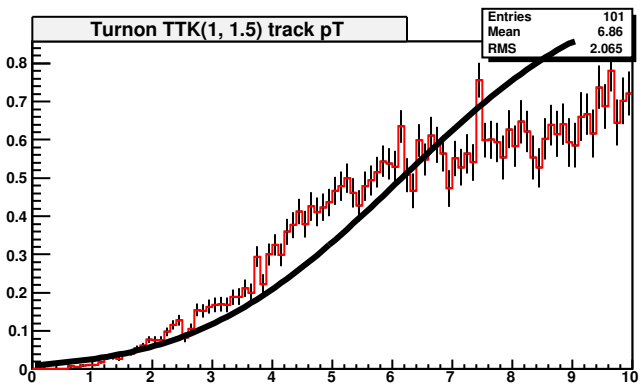



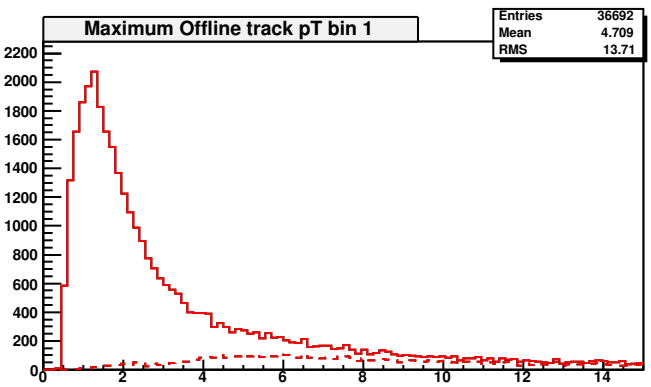



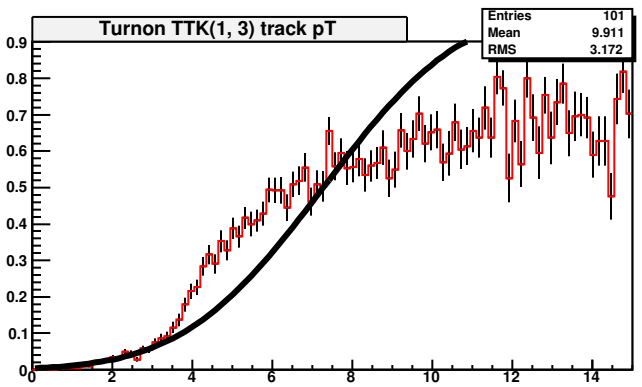



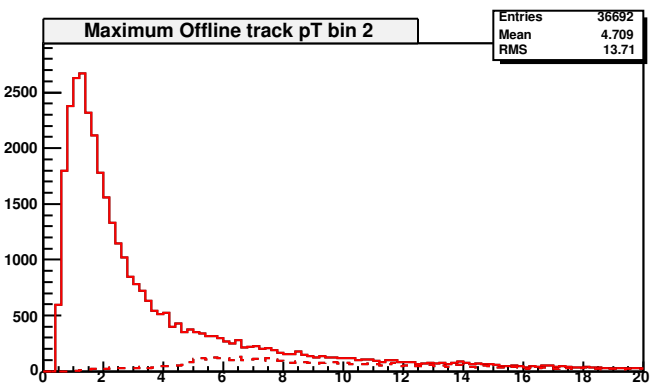

# FPS Number of Hits (All)

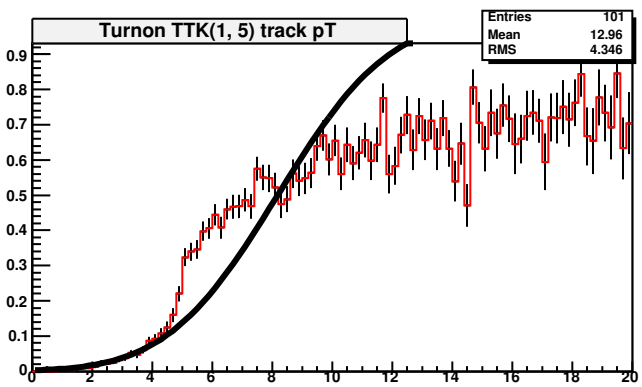


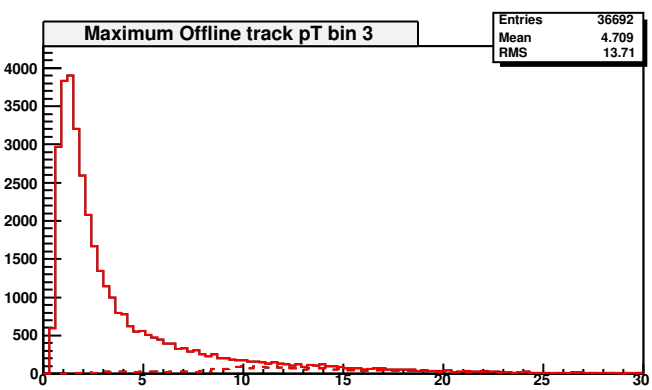



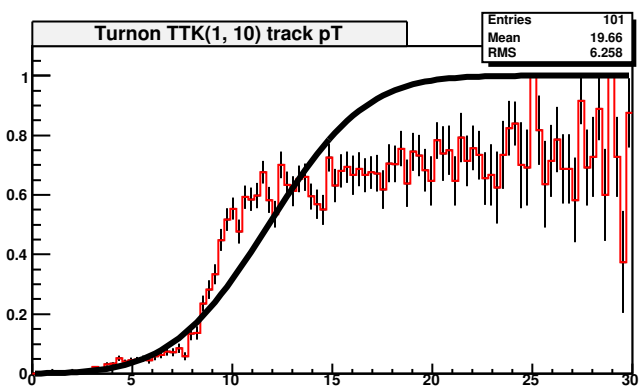



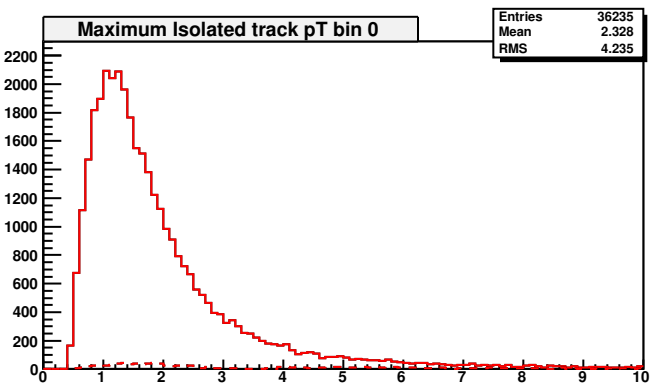



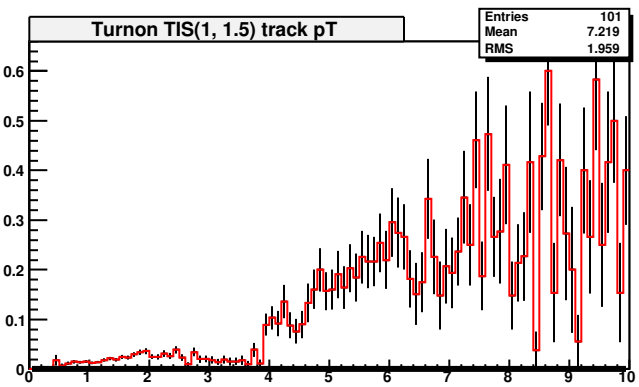



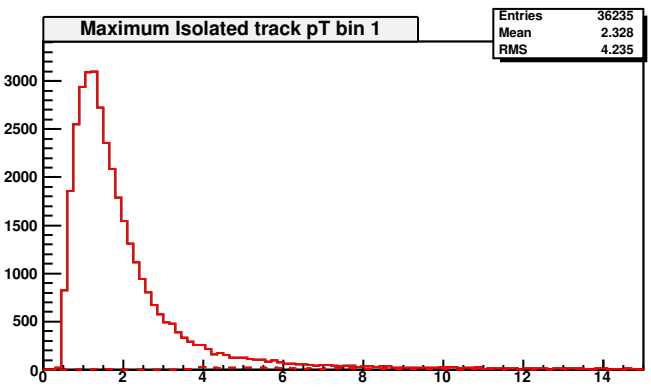



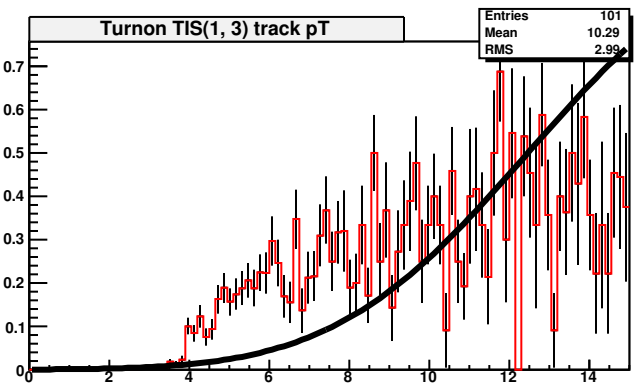



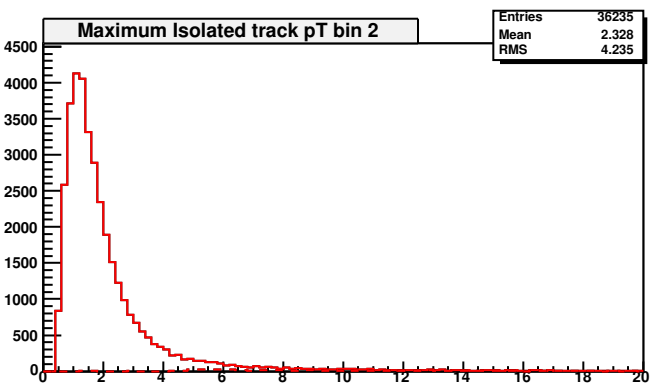

# TTK Turnon curves (L1CTT All)

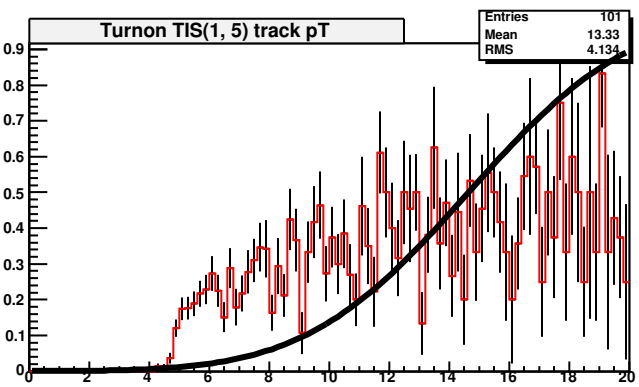


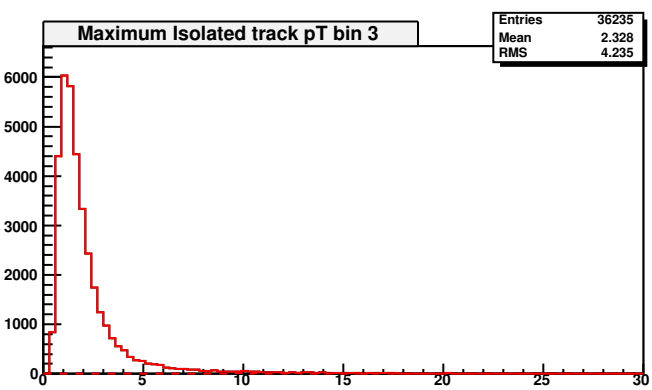



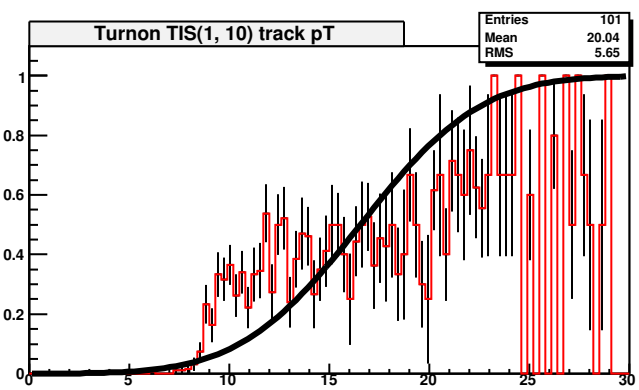



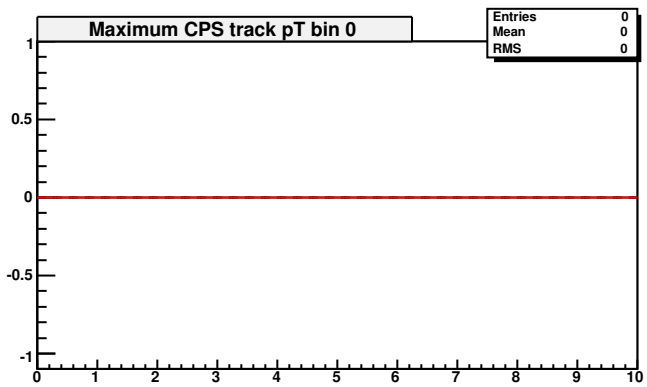



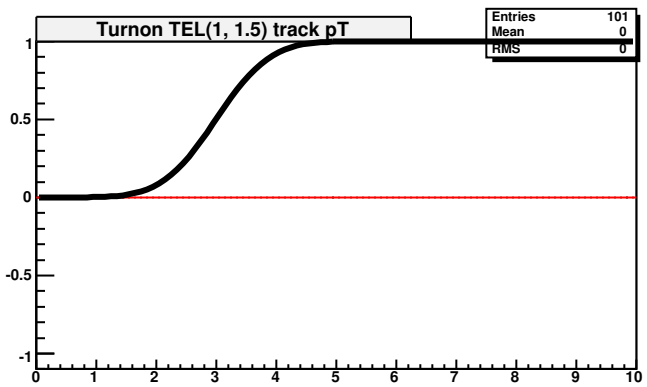



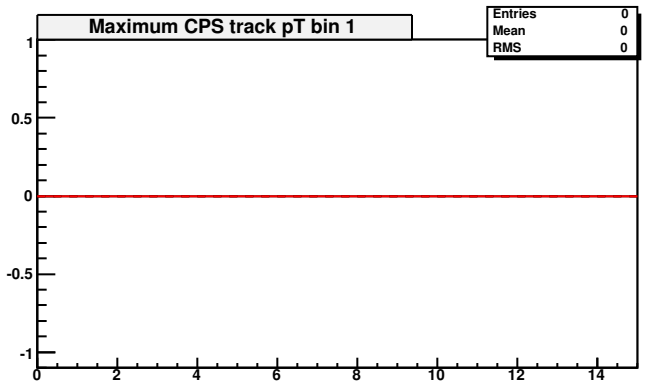



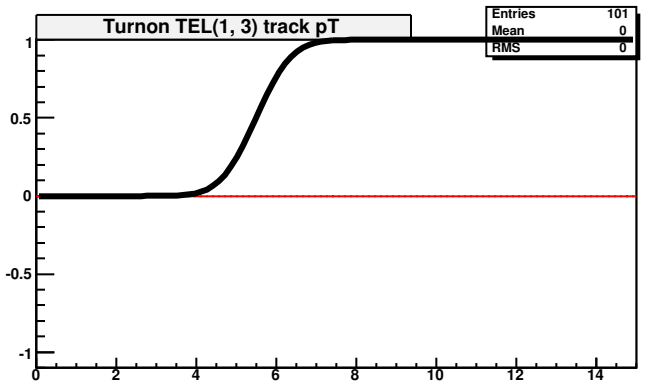



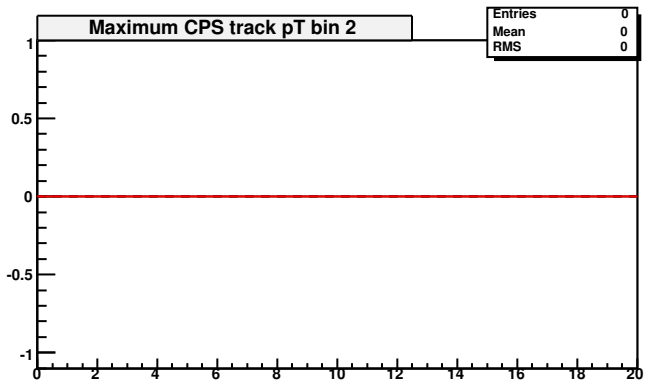

# TIS Turnon curves (L1CTT All)

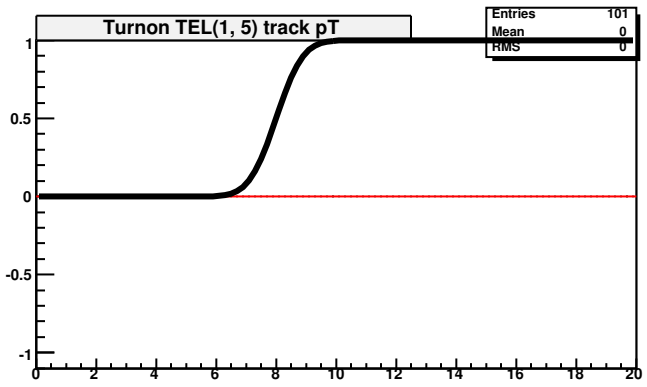


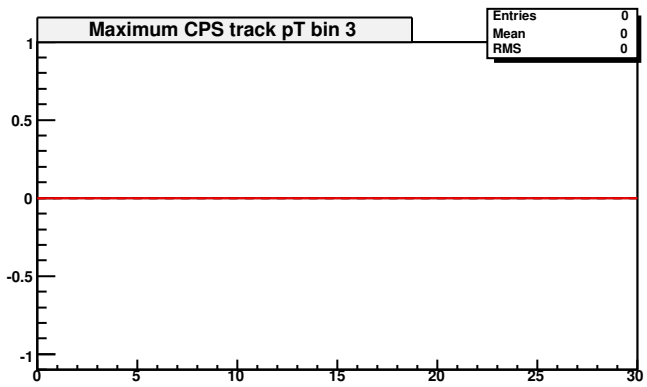



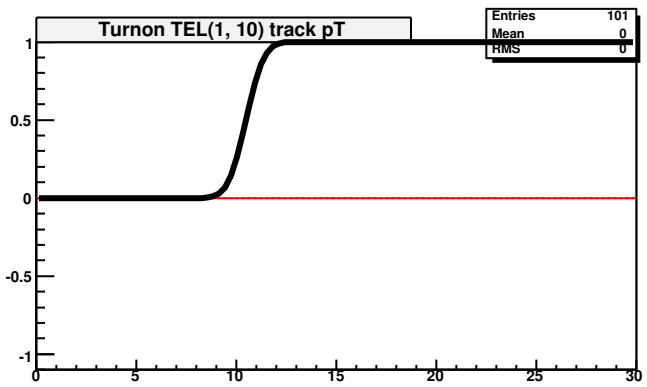



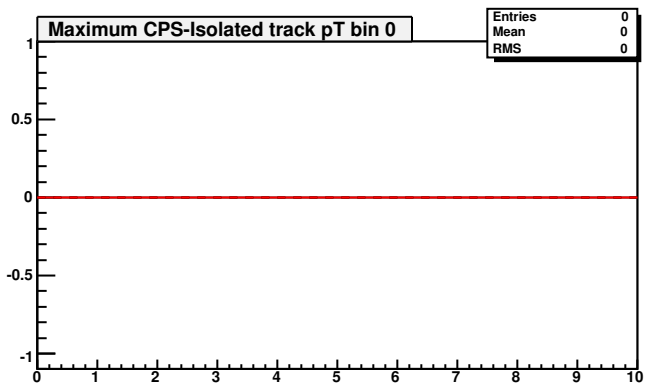



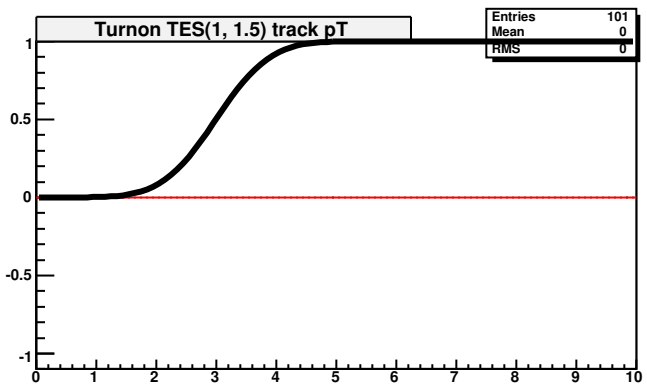



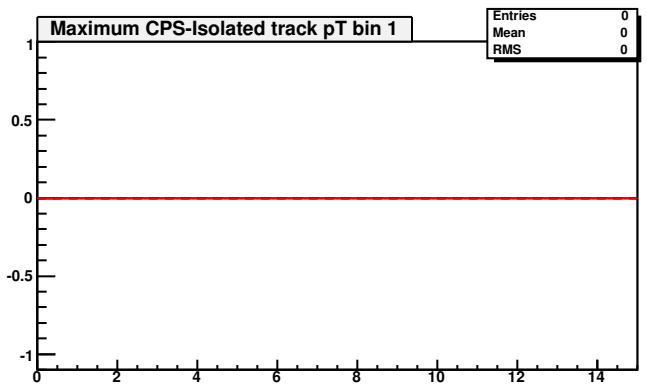



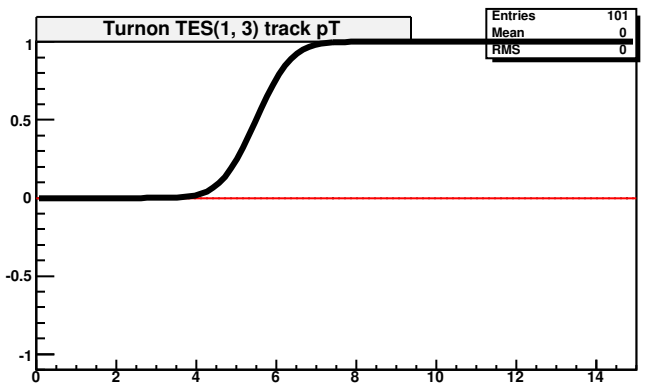



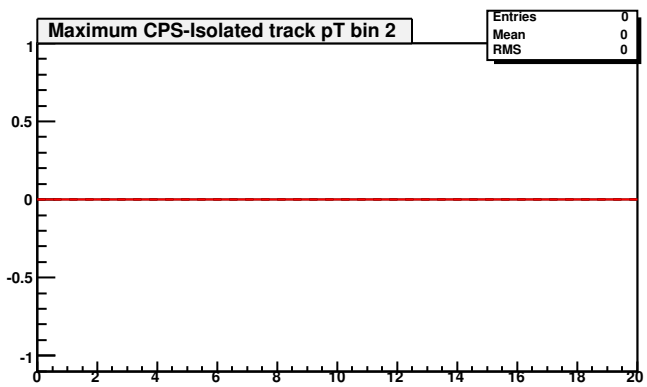

# TEL Turnon curves (L1CTT All)

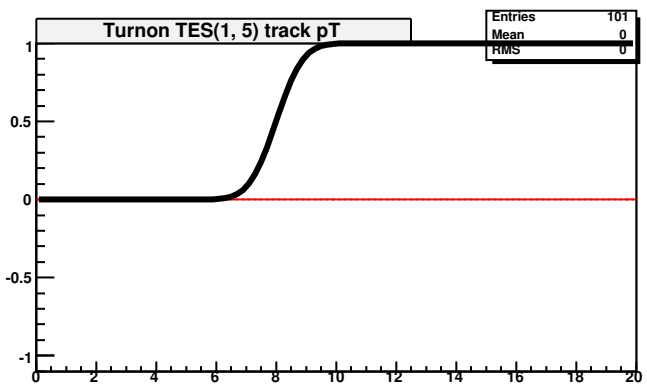


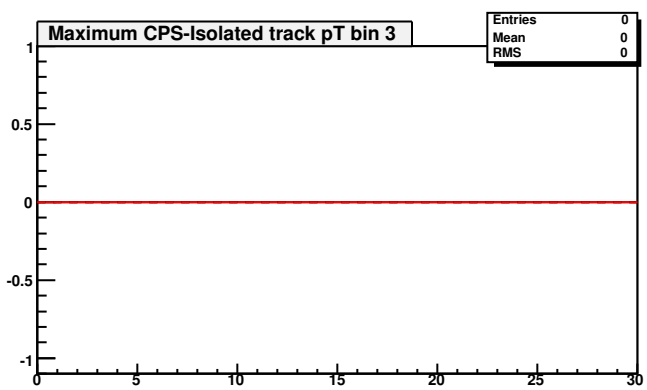



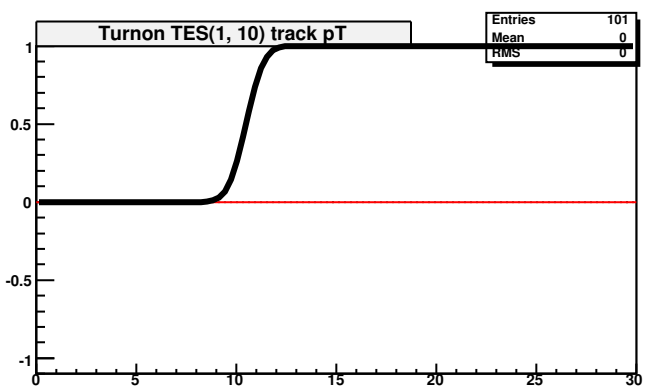



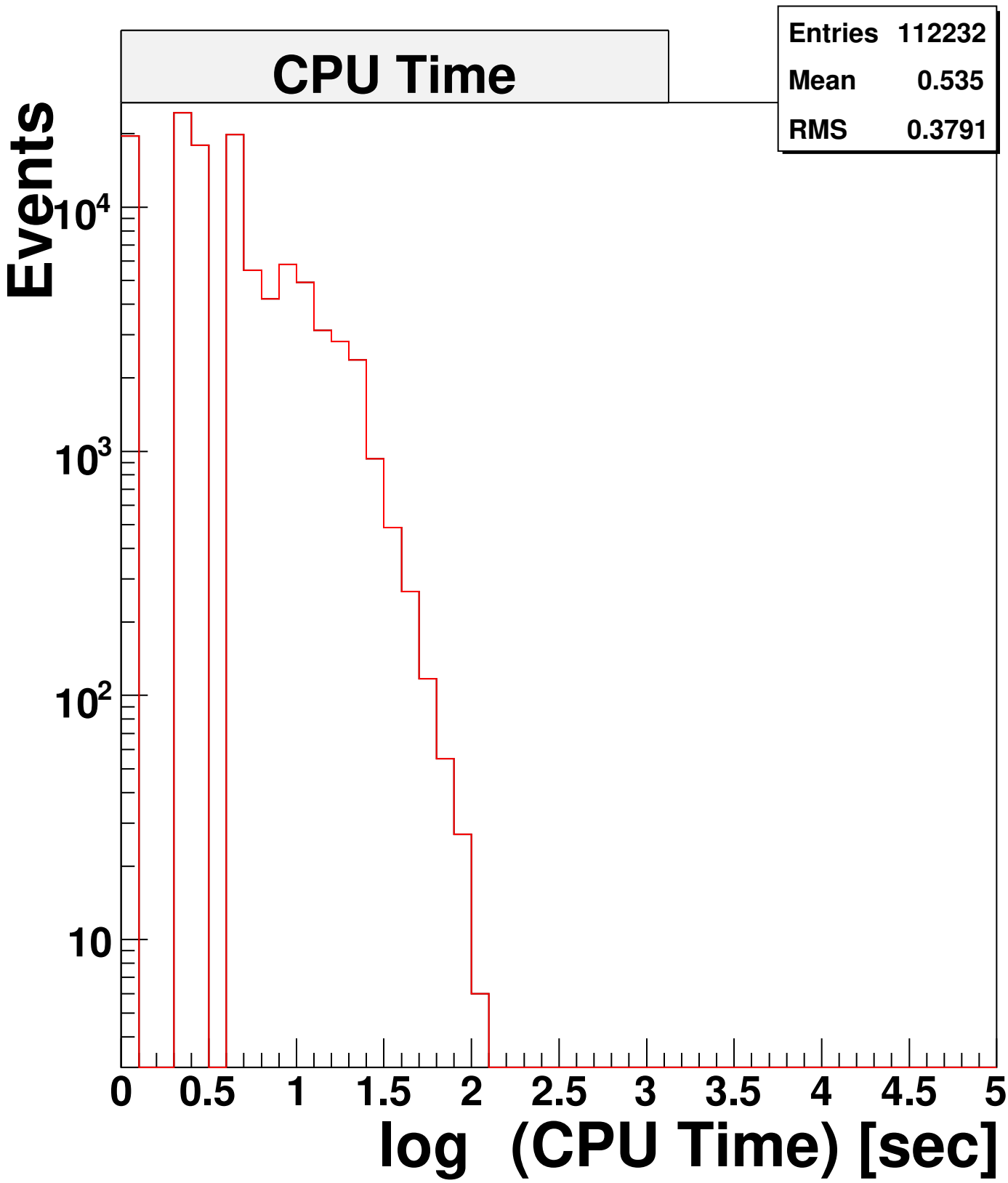




# TES Turnon curves (L1CTT All)




RECO Performance (Timing)