dayset-2006-08-30-all_3-224680-0_certification_20070
../unmerged/dayset-2006-08-30-all_3-224680-0_certific

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Page 4: Tracks Hits (All)
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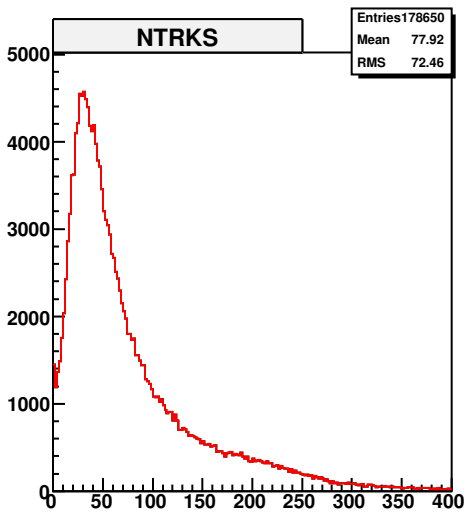
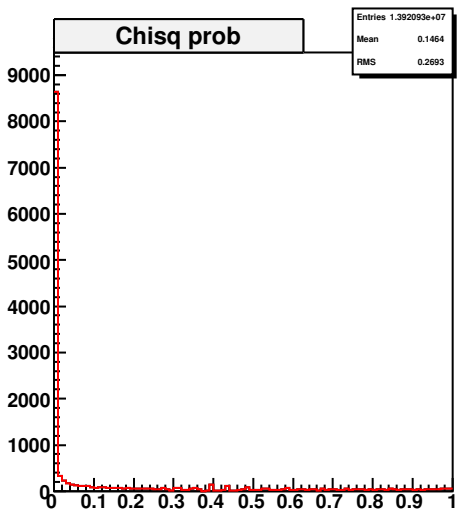
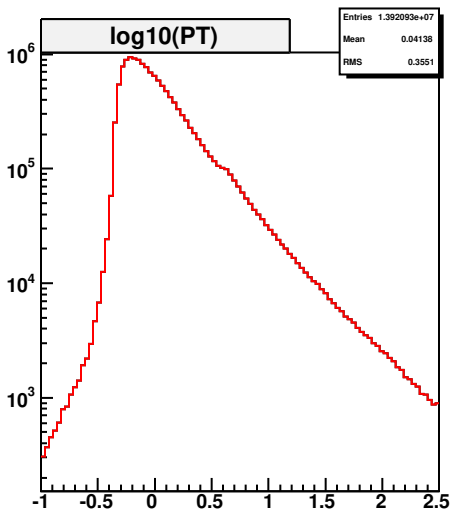
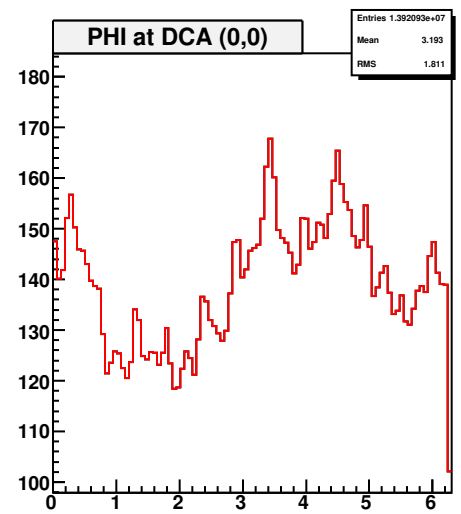
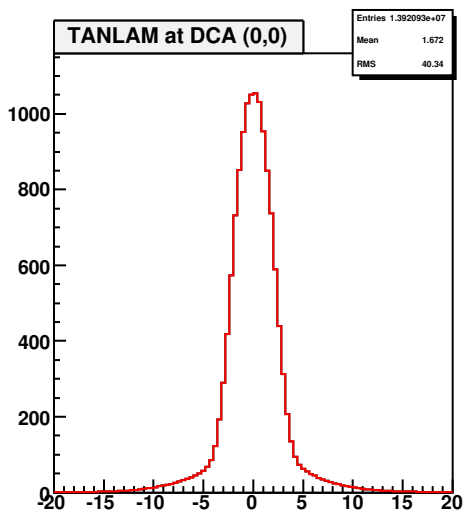
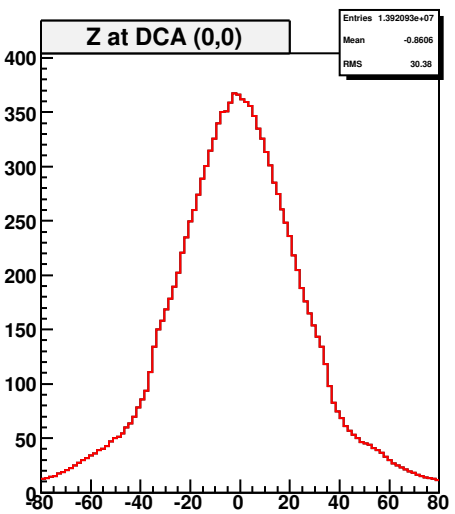

NTRKS
Entries178650
Mean 77.92
RMS 72.46

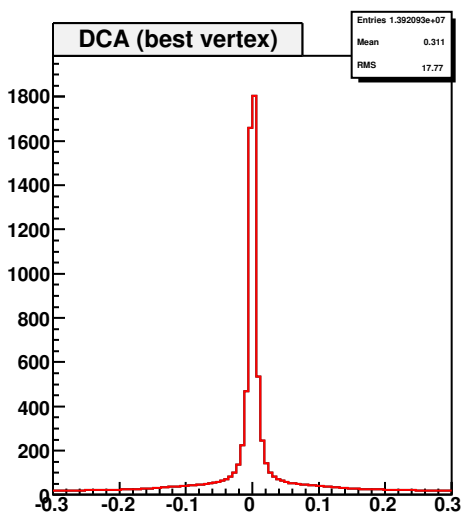

Chisq prob
Entries 1.392093e+07
Mean 0.1464
RMS 0.2693

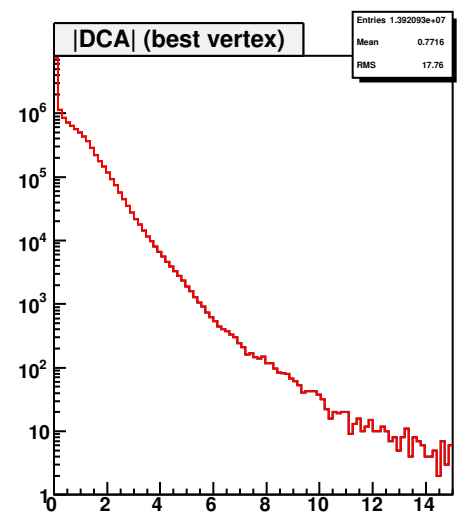

log10(PT)
Entries 1.392093e+07
Mean 0.04138
RMS 0.3551

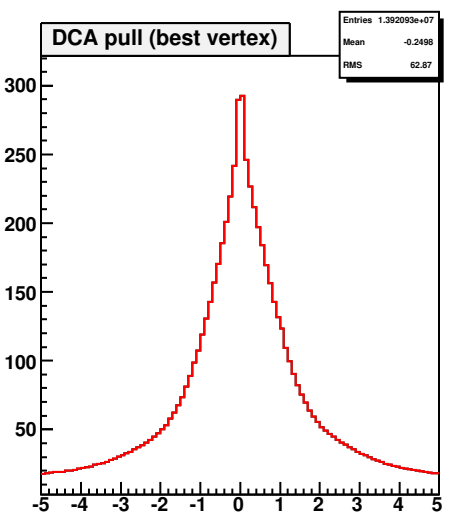

PHI at DCA (0,0)
Entries 1.392093e+07
Mean 3.193
RMS 1.811


TANLAM at DCA (0,0)
Entries 1.392093e+07
Mean 1.672
RMS 40.34

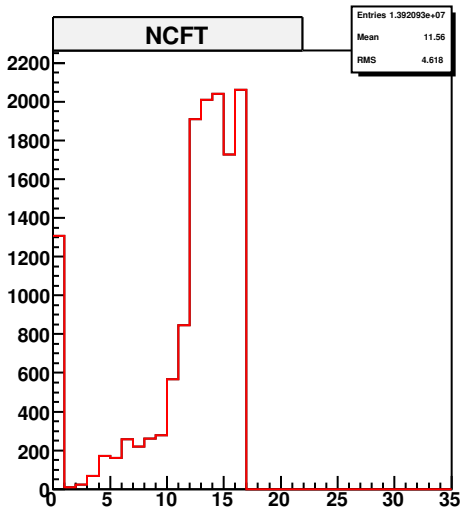

Z at DCA (0,0)
Entries 1.392093e+07
Mean -0.8606
RMS 30.38

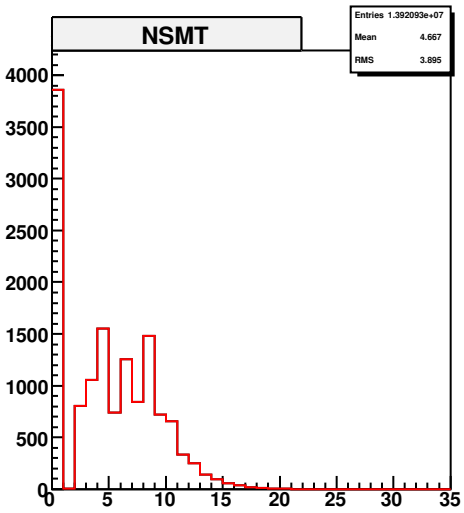

DCA (best vertex)
Entries 1.392093e+07
Mean 0.311
RMS 17.77

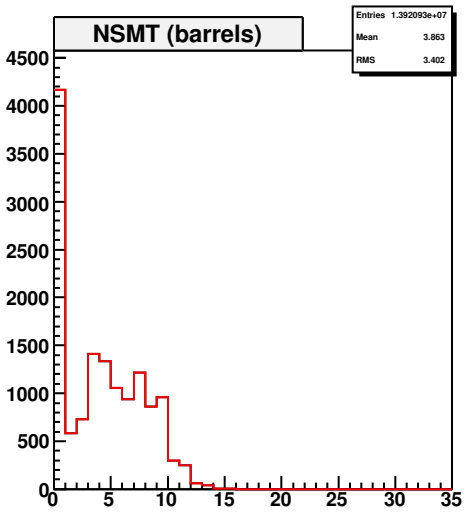

|DCA| (best vertex)
Entries 1.392093e+07
Mean 0.7716
RMS 17.76

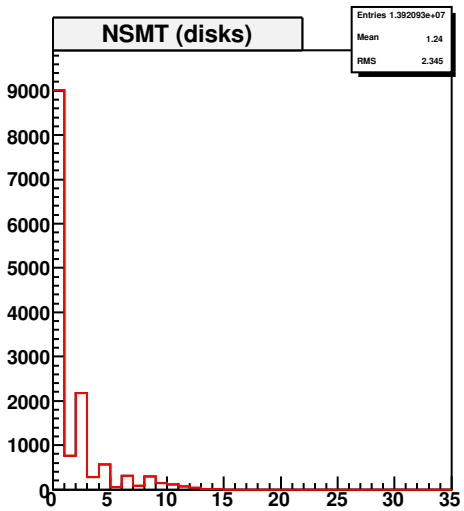

DCA pull (best vertex)
Entries 1.392093e+07
Mean -0.2498
RMS 62.87

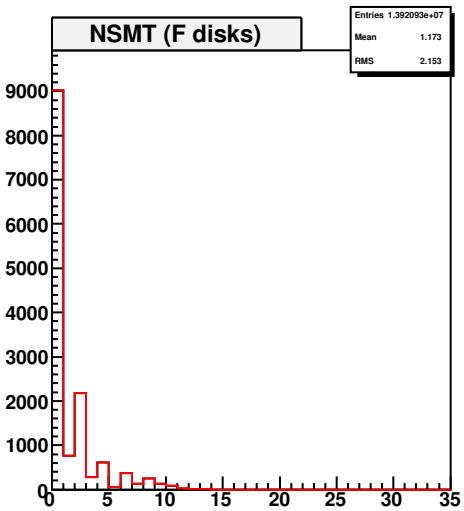
Tracks (All)

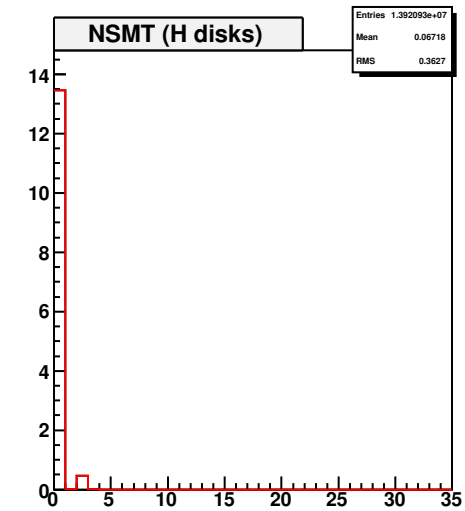


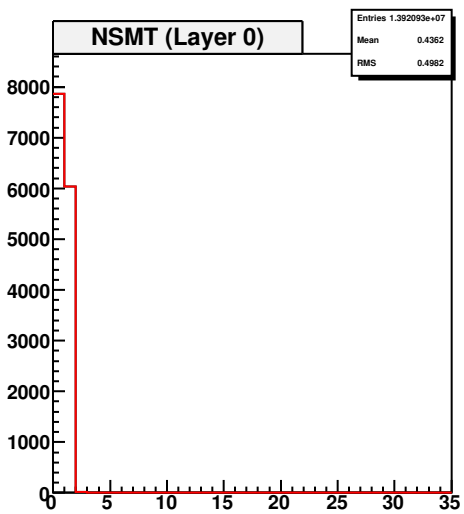




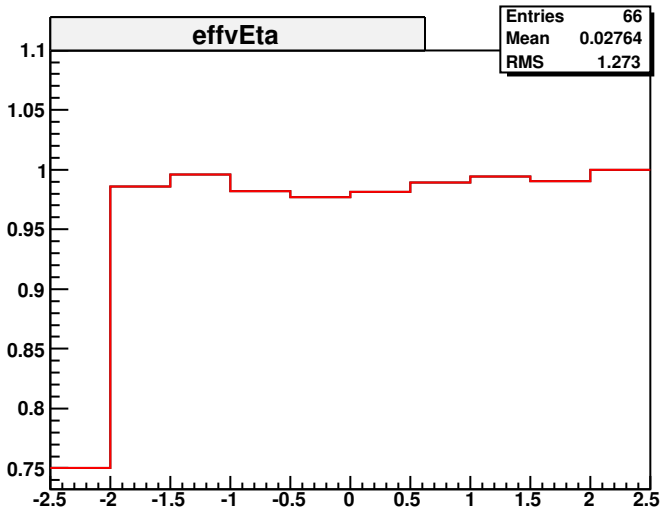


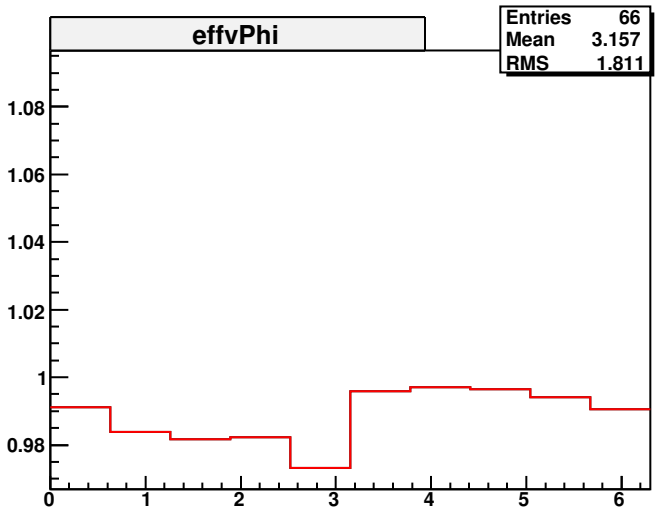


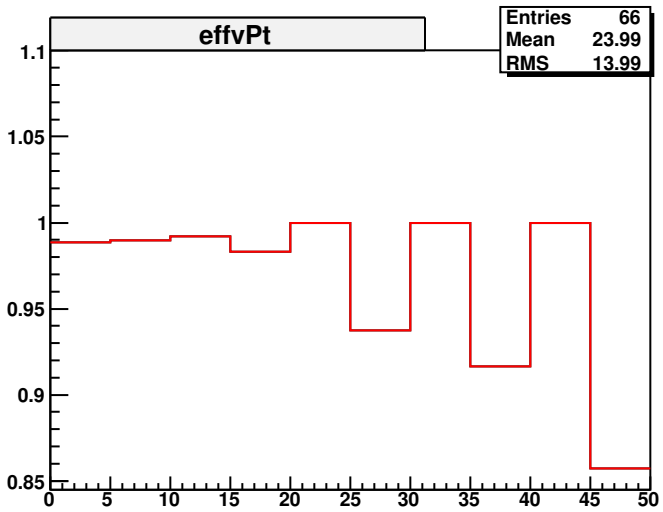


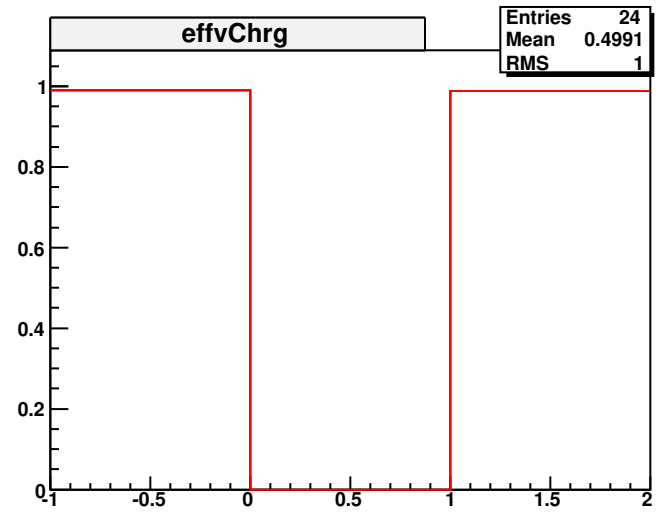


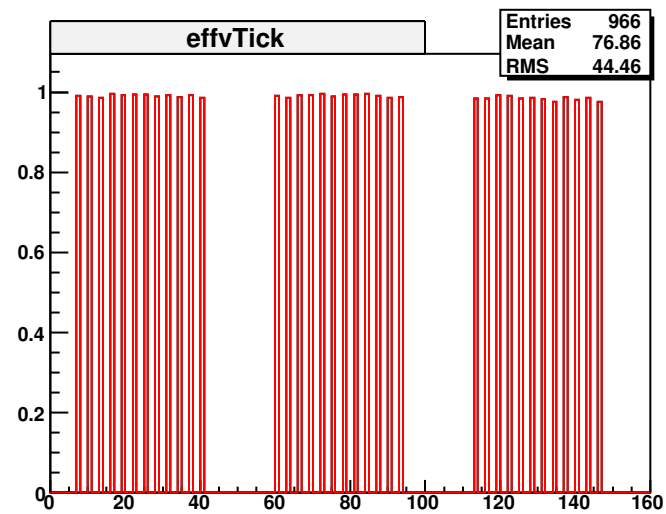
Track Hits (All)

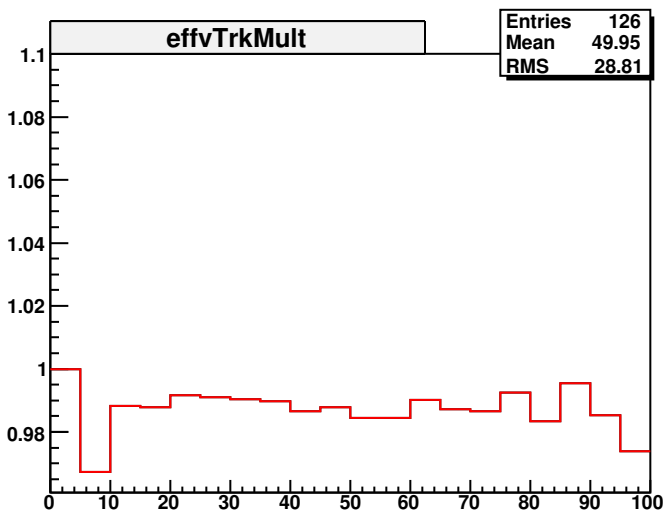




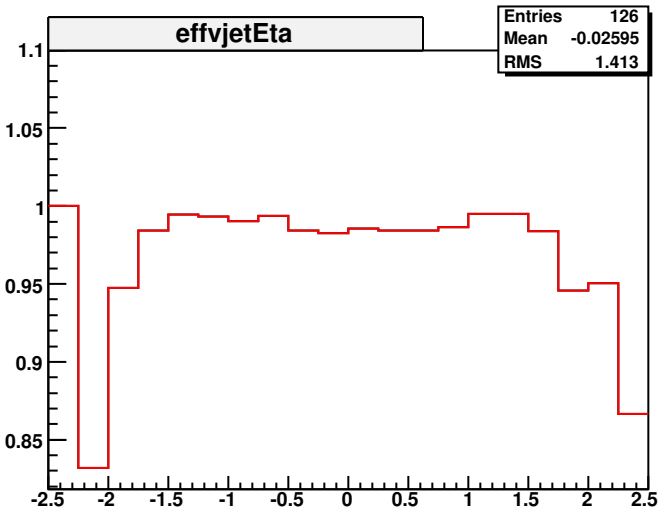


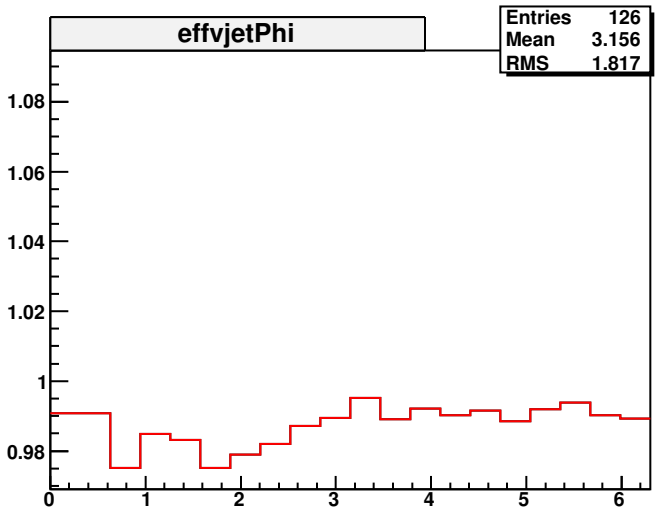


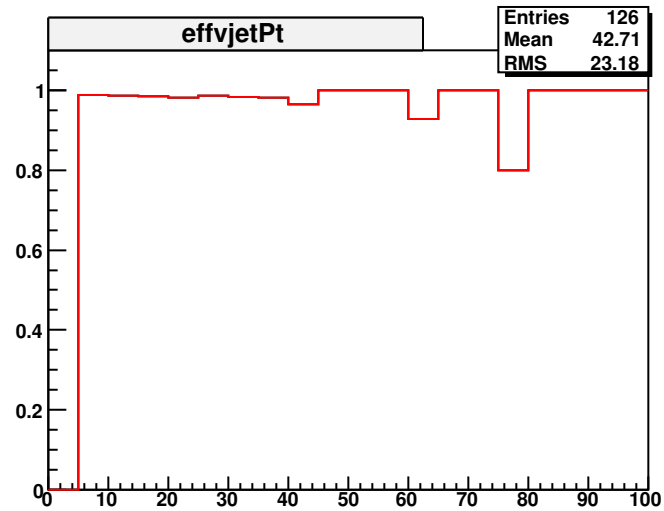


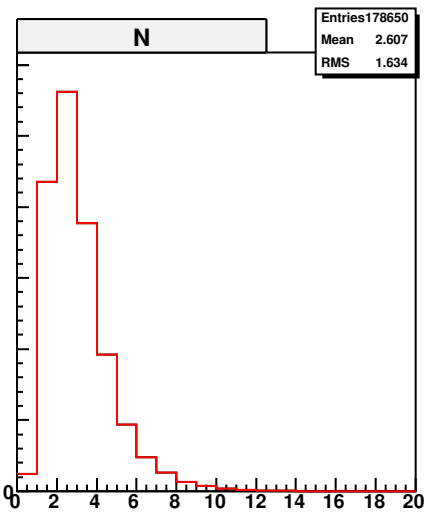


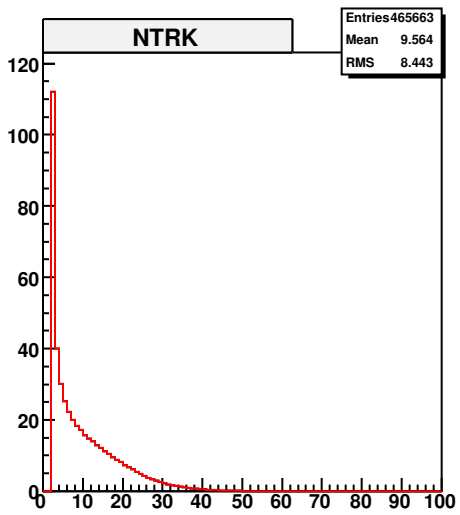
Tracking (Efficiency-Isolated)

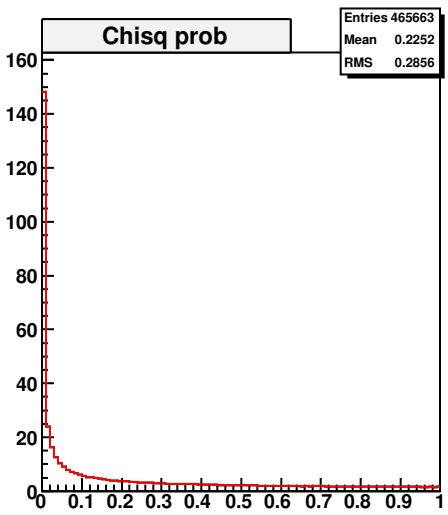

effvjetEta
Entries 126
Mean -0.02595
RMS 1.413
1.1
1.05
1
0.95
0.9
0.85
-2.5 -2 -1.5 -1 -0.5 0 0.5 1 1.5 2 2.5

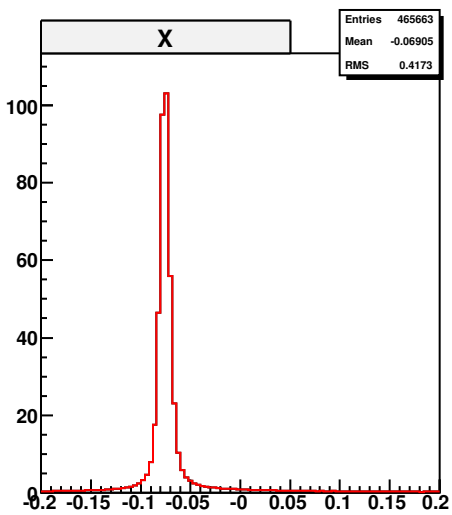

effvjetPhi
Entries 126
Mean 3.156
RMS 1.817
1.08
1.06
1.04
1.02
1
0.98
0 1 2 3 4 5 6

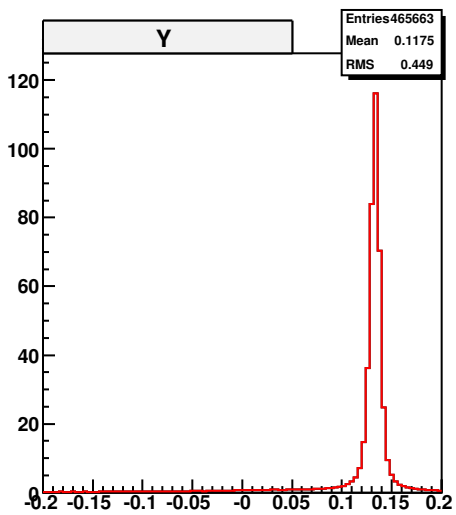

effvjetPt
Entries 126
Mean 42.71
RMS 23.18
1
0.8
0.6
0.4
0.2
0
0 10 20 30 40 50 60 70 80 90 100

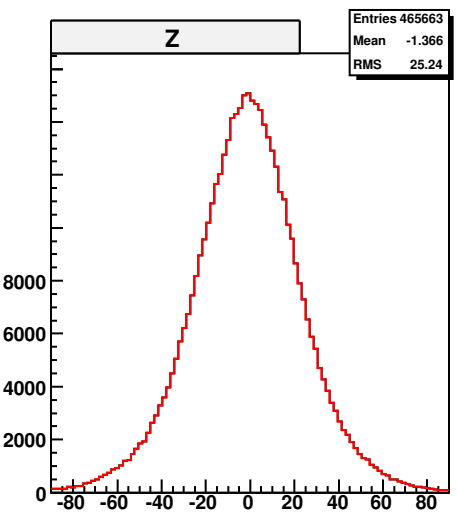




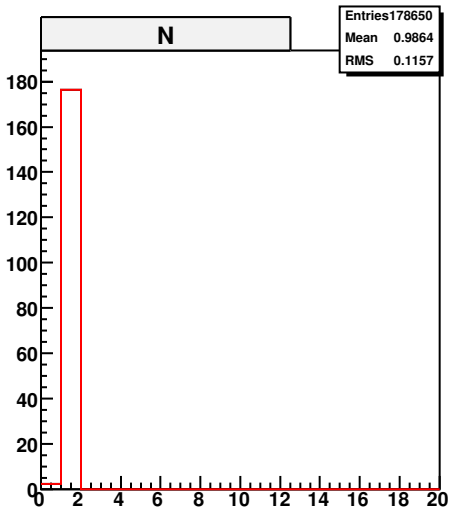


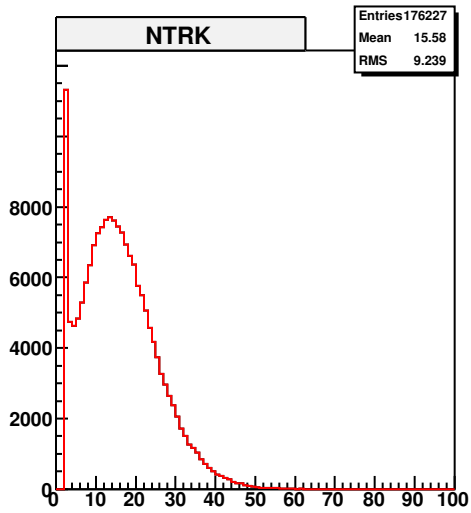


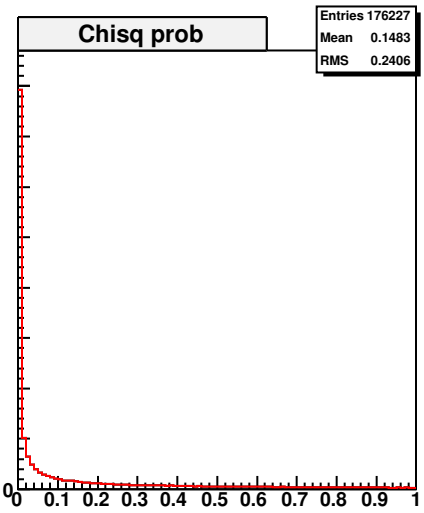


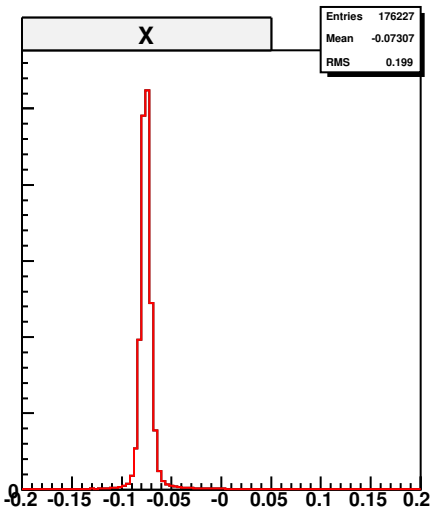


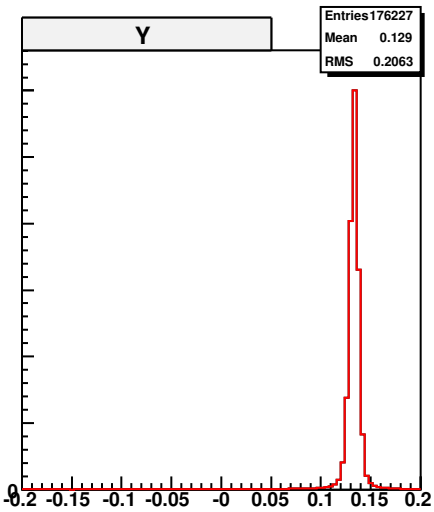
Vertices (Primary - all candidates)

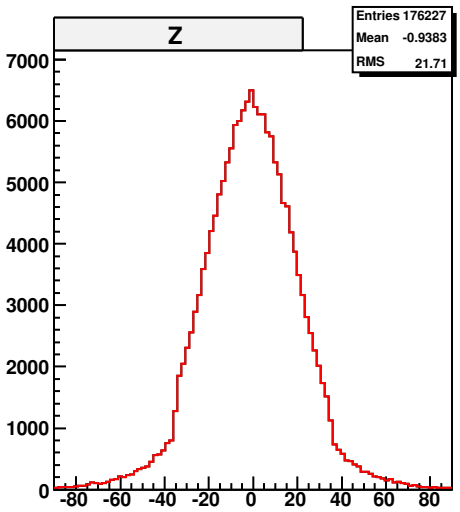




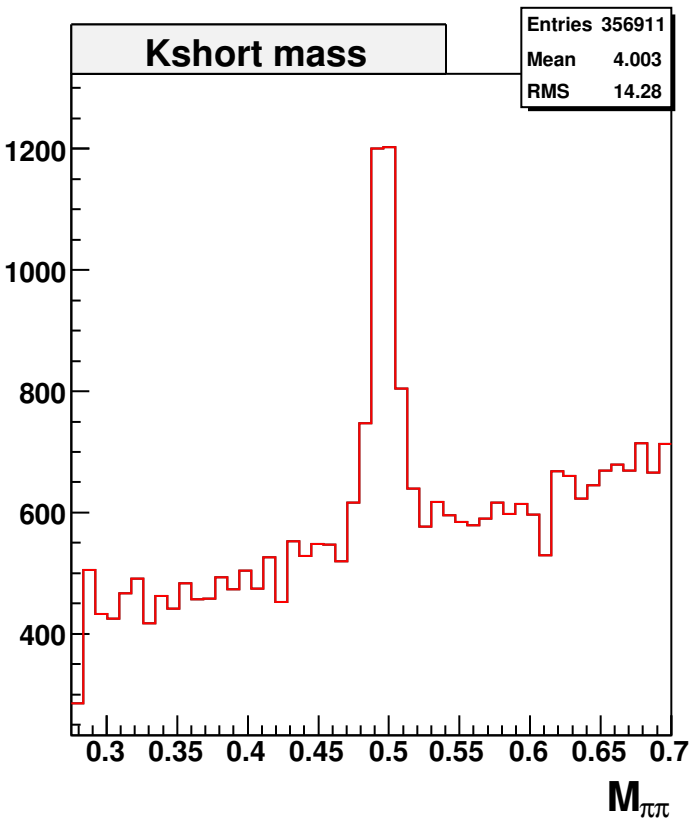


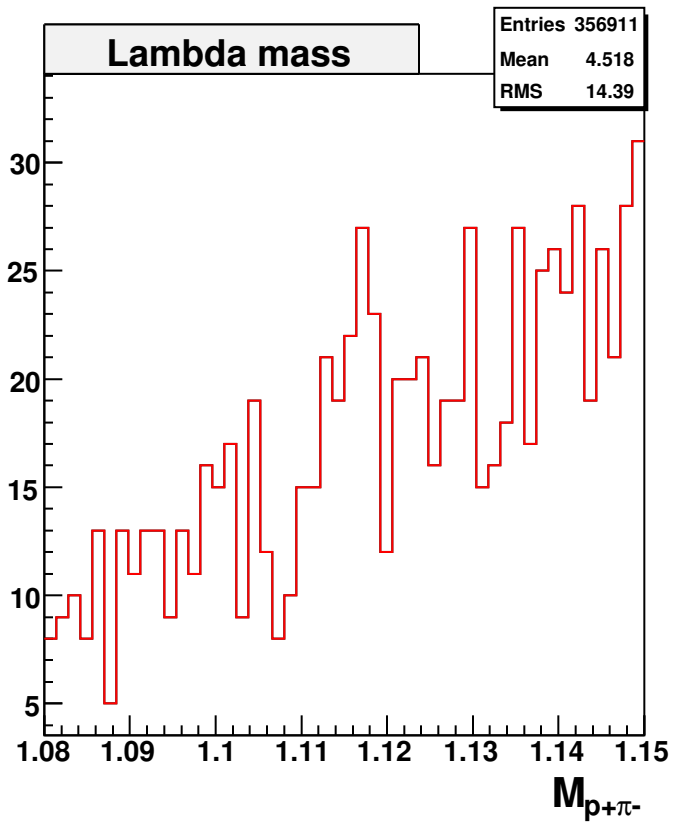


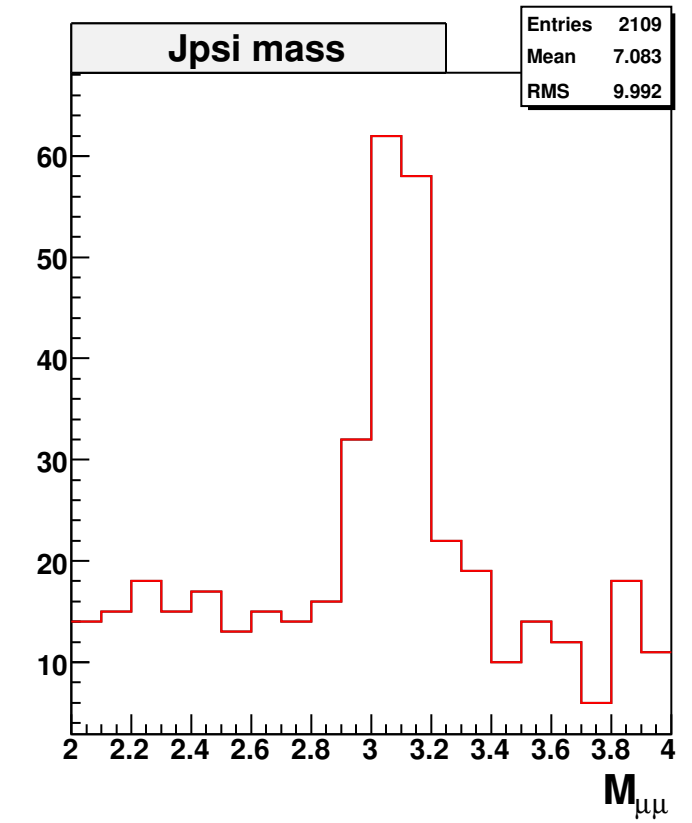


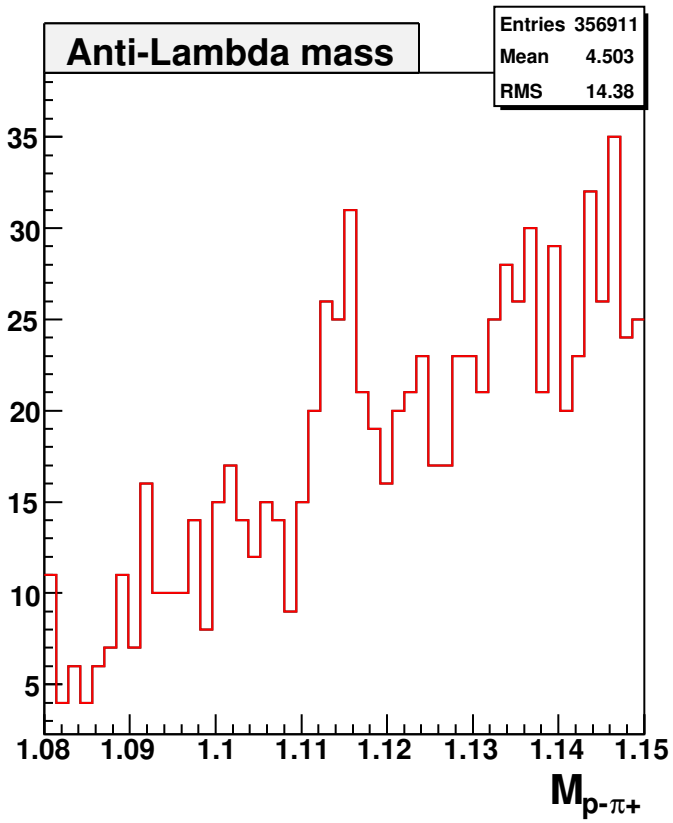


Vertices (Primary - best)

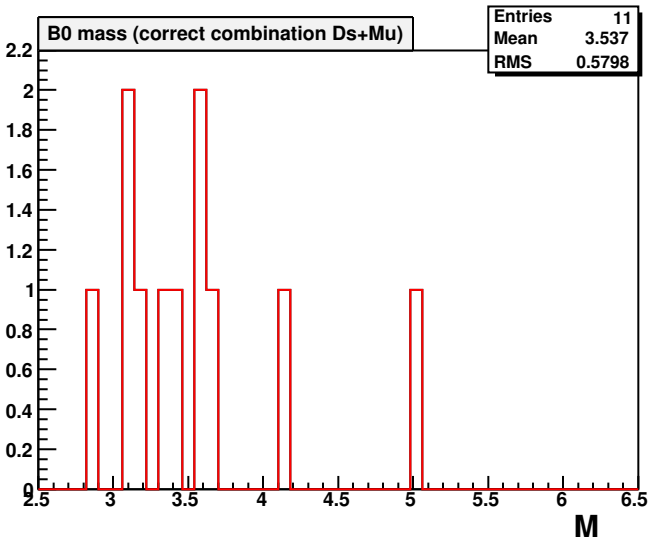

Kshort mass
Entries 356911
Mean 4.003
RMS 14.28
1200
1000
800
600
400
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
Mππ

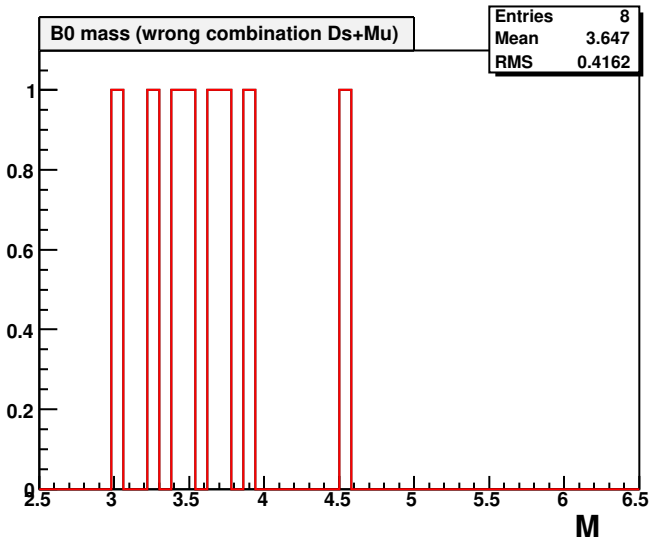

Lambda mass
Entries 356911
Mean 4.518
RMS 14.39
30
25
20
15
10
5
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
Mp+π-

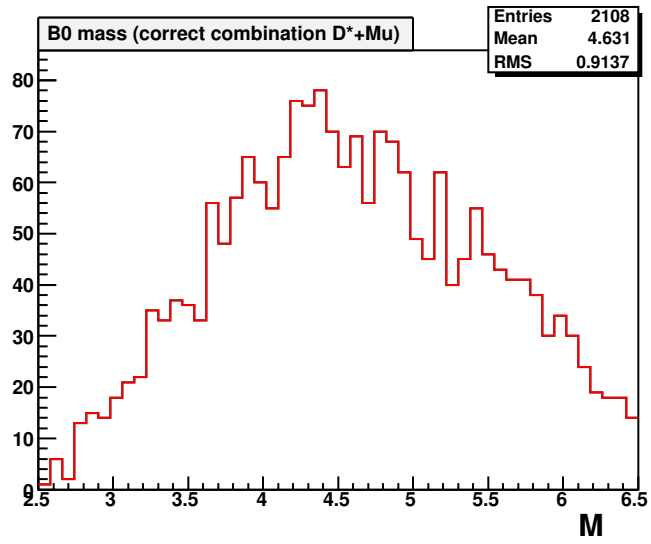

Jpsi mass
Entries 2109
Mean 7.083
RMS 9.992
60
50
40
30
20
10
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
Mμμ

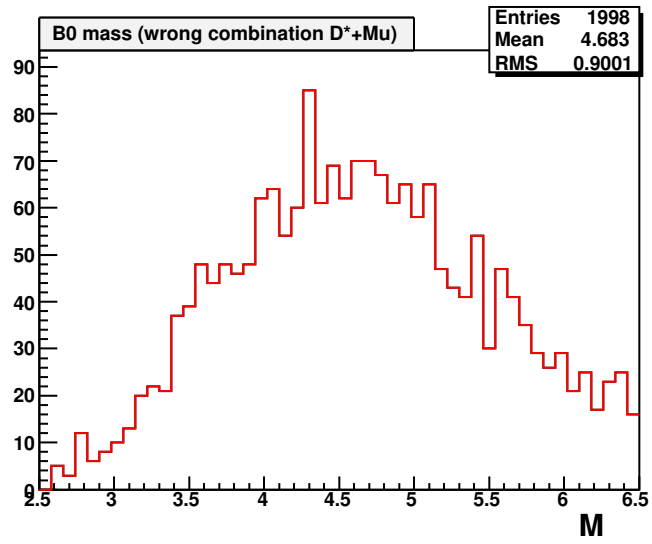

Anti-Lambda mass
Entries 356911
Mean 4.503
RMS 14.38
35
30
25
20
15
10
5
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
Mp-π+

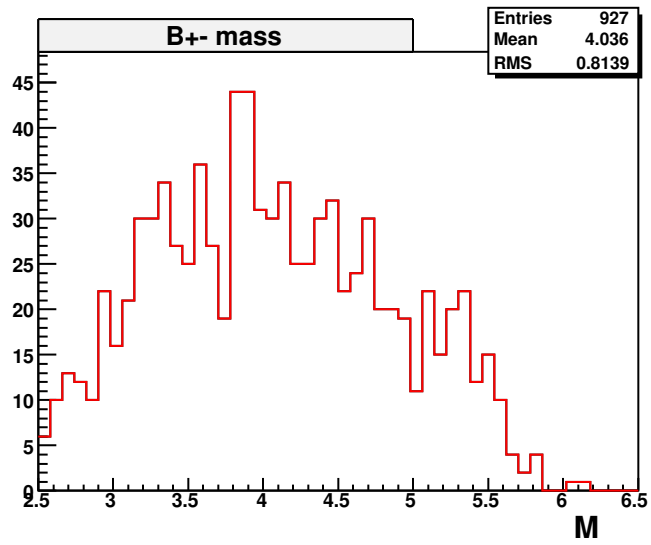
V0 (All)



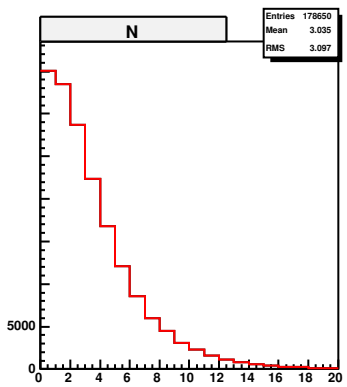


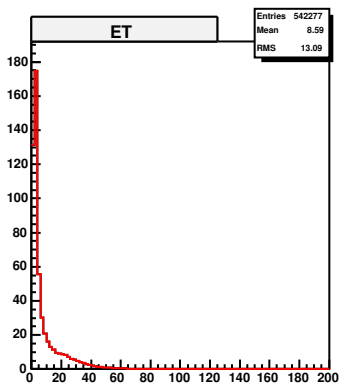


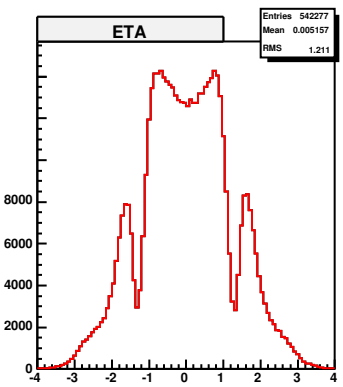


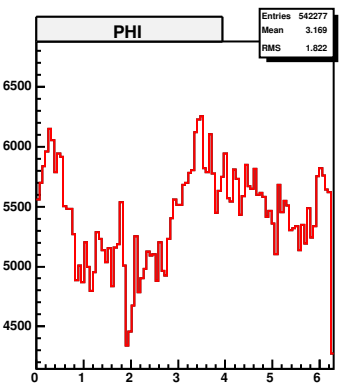


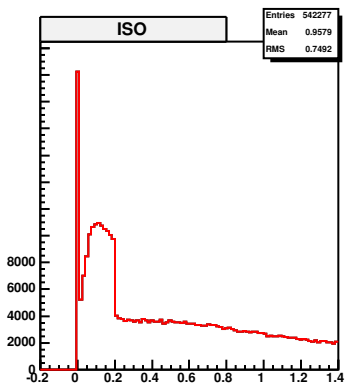
V0(B mesons) (All)

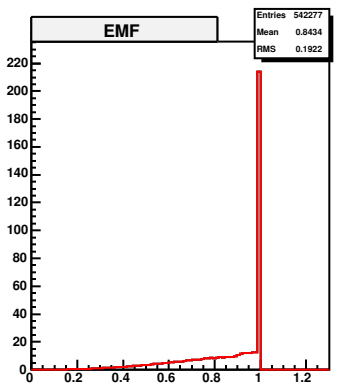


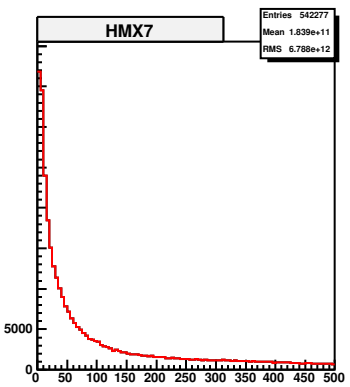


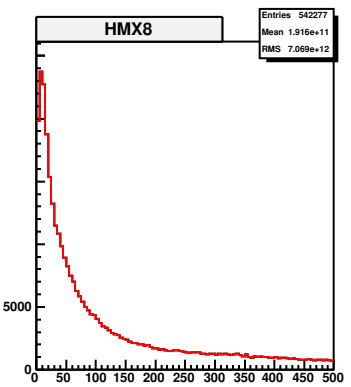


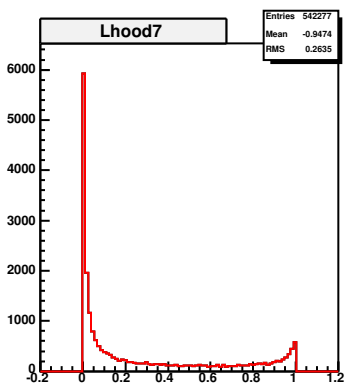


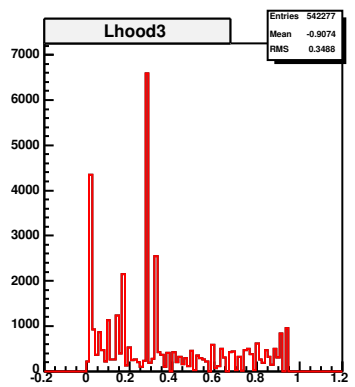


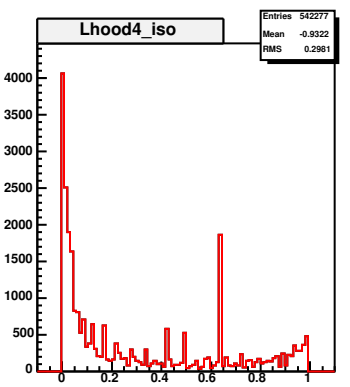


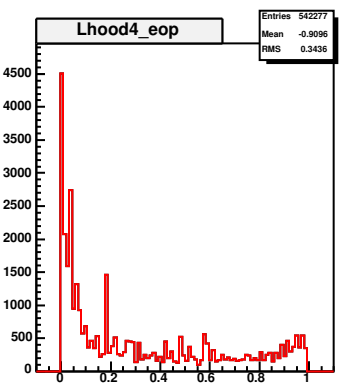


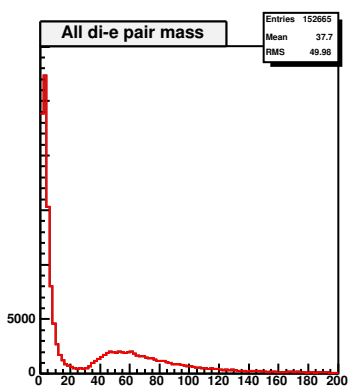


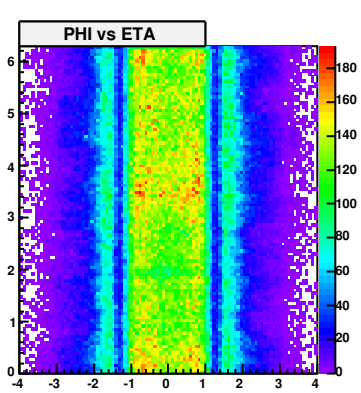


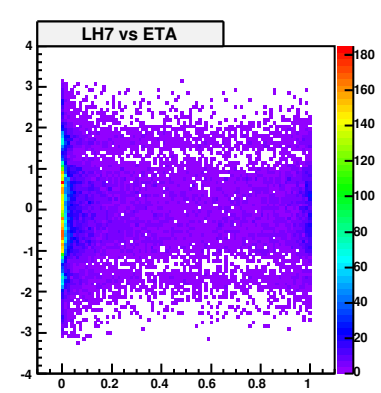


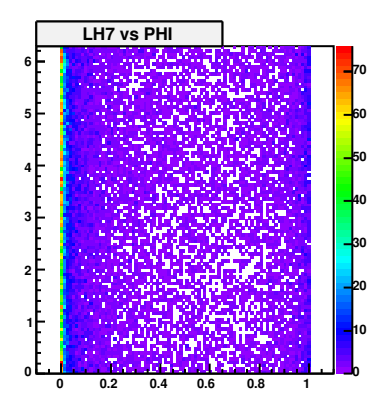




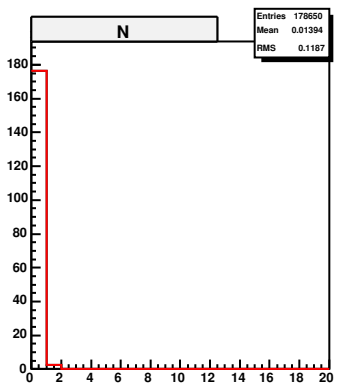


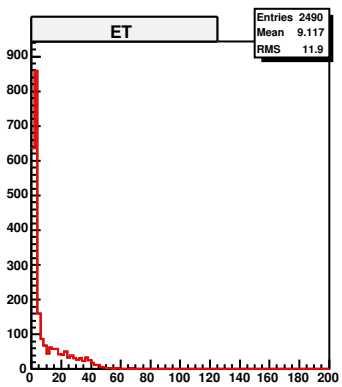


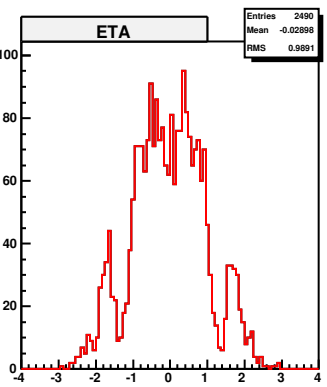


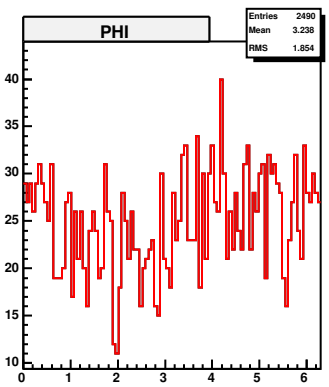


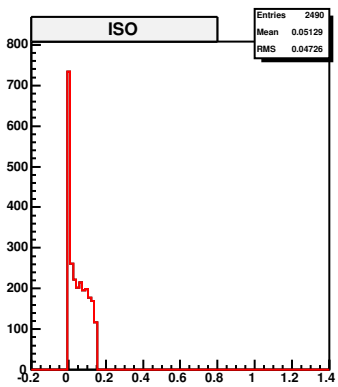
Electrons (SCONE All)

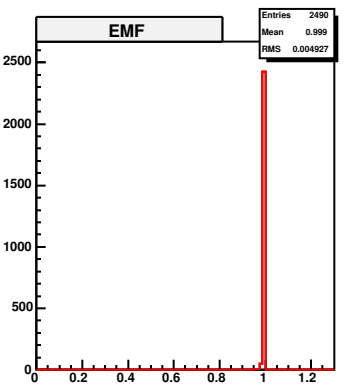


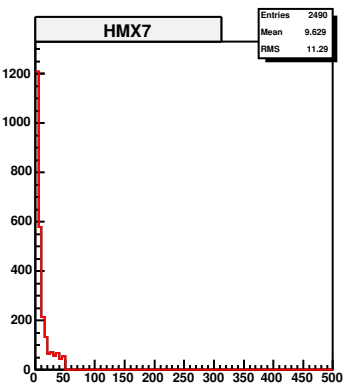


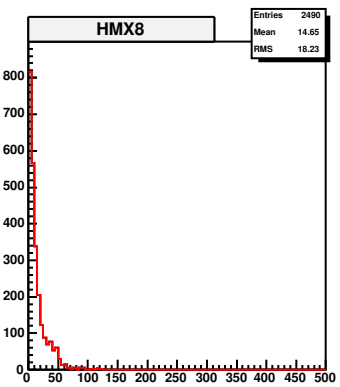


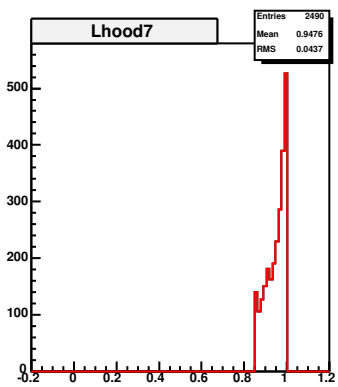


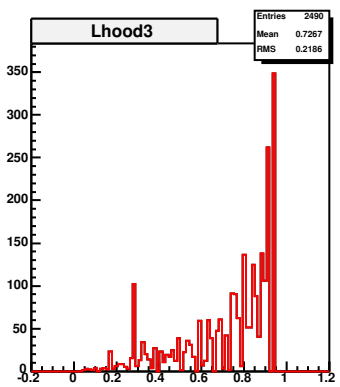


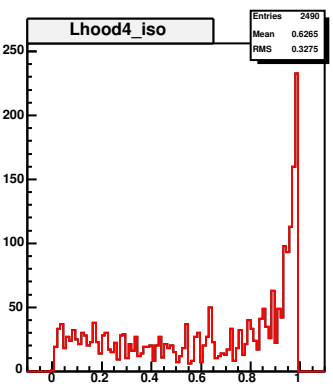


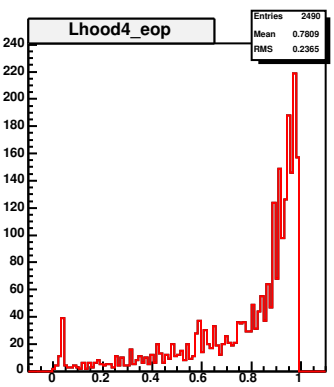


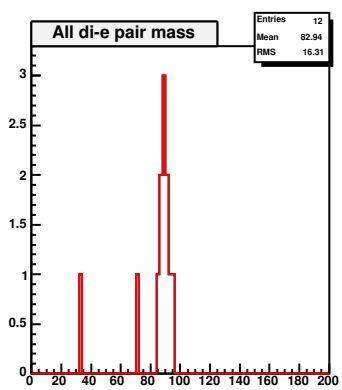


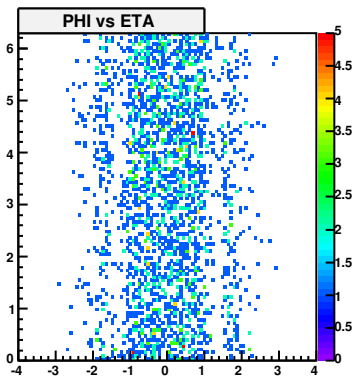


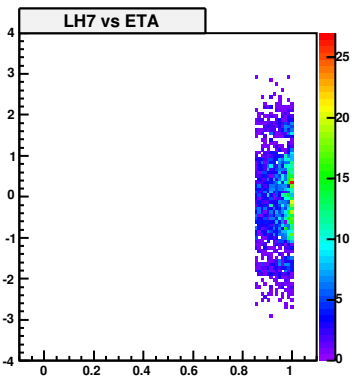


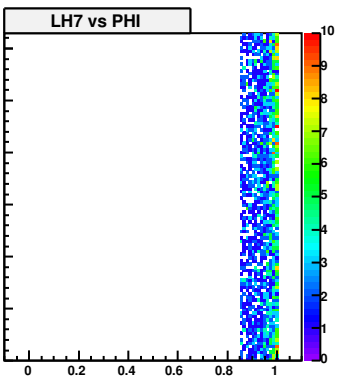




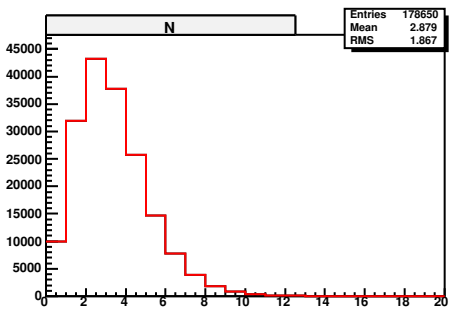


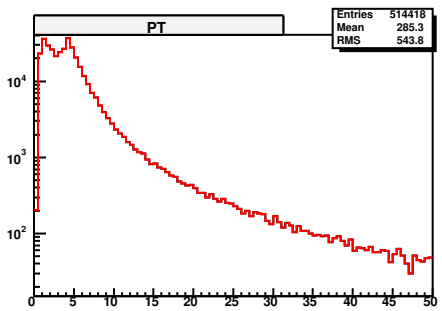


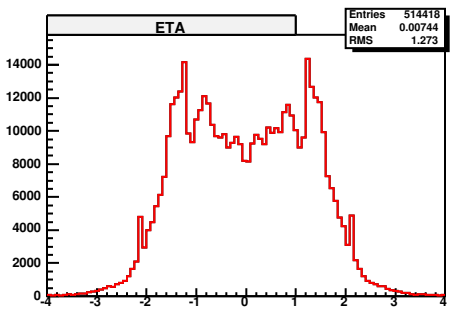


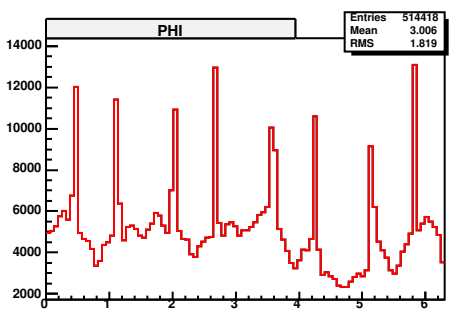


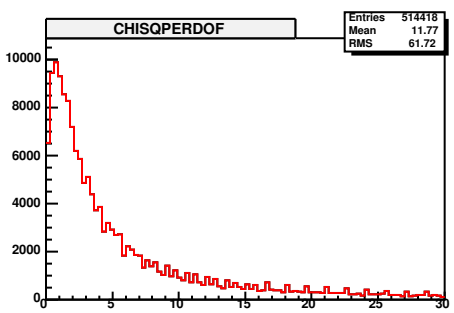
Electrons (SCONE Tight)

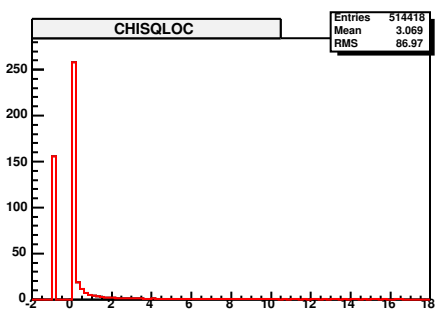

N
Entries 178650
Mean 2.879
RMS 1.867

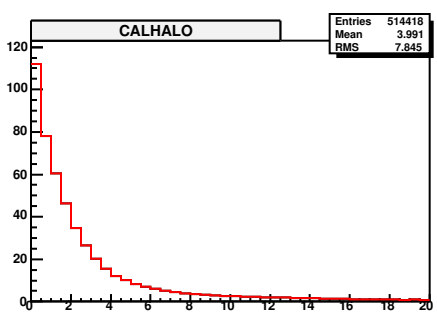

PT
Entries 514418
Mean 285.3
RMS 543.8

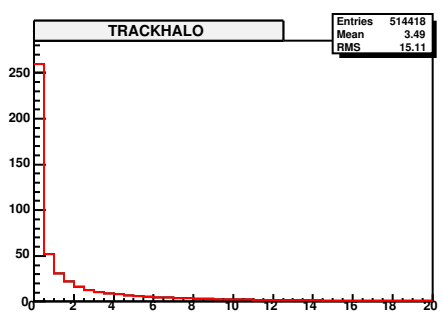

ETA
Entries 514418
Mean 0.00744
RMS 1.273

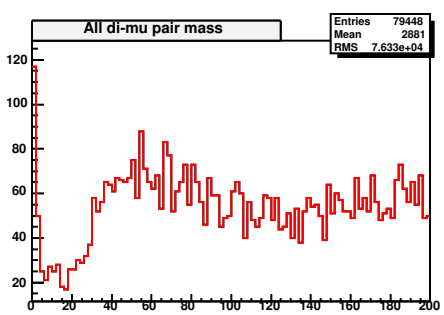

PHI
Entries 514418
Mean 3.006
RMS 1.819

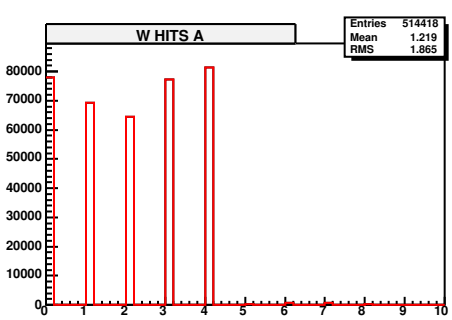

CHISQPERDOF
Entries 514418
Mean 11.77
RMS 61.72

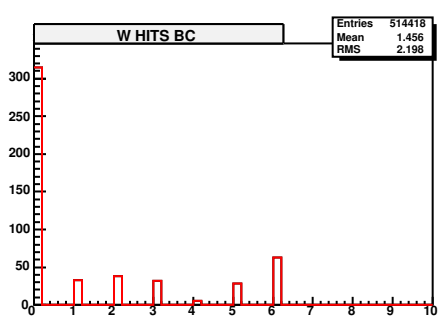

CHISQLOC
Entries 514418
Mean 3.069
RMS 86.97

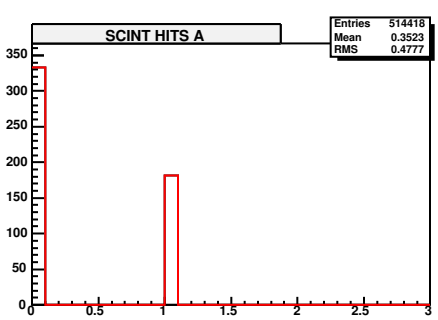

CALHALO
Entries 514418
Mean 3.991
RMS 7.845

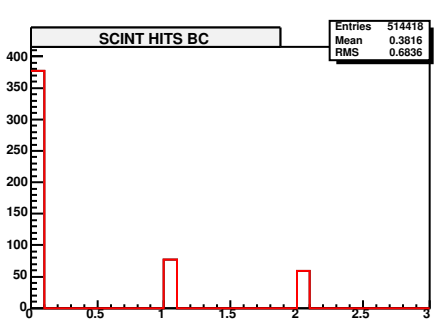

TRACKHALO
Entries 514418
Mean 3.49
RMS 15.11


All di-mu pair mass
Entries 79448
Mean 2881
RMS 7.633e+04

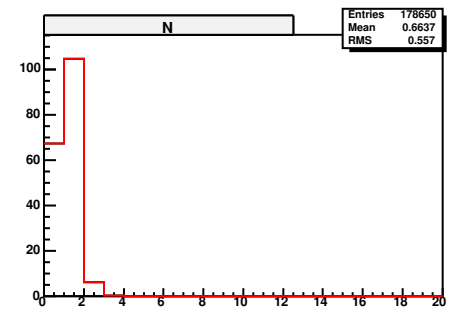

W HITS A
Entries 514418
Mean 1.219
RMS 1.865

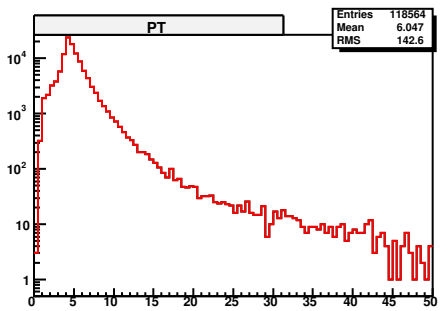

W HITS BC
Entries 514418
Mean 1.456
RMS 2.198

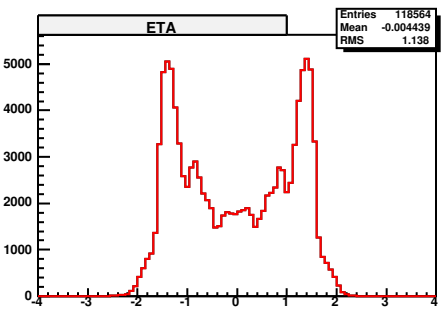

SCINT HITS A
Entries 514418
Mean 0.3523
RMS 0.4777

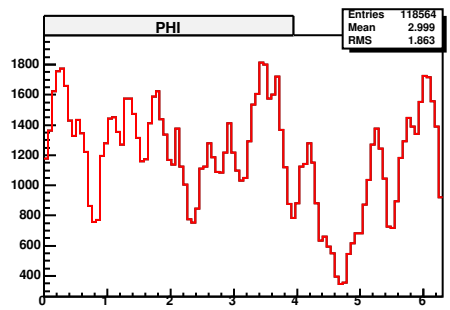

SCINT HITS BC
Entries 514418
Mean 0.3816
RMS 0.6836

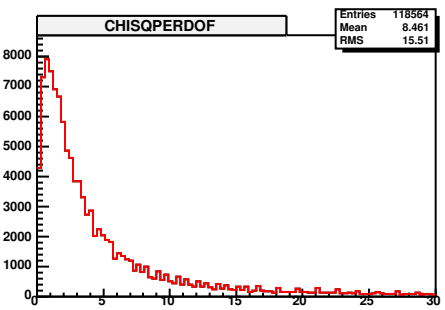
Muons (All)

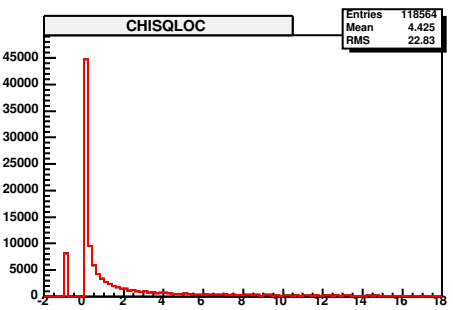


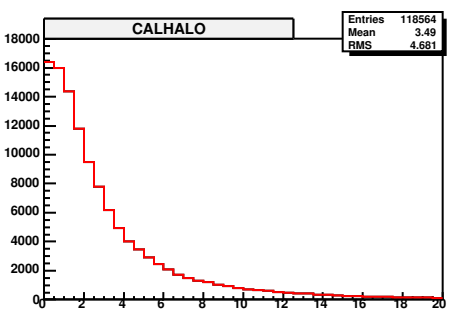


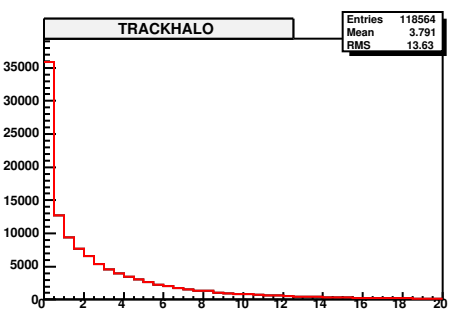


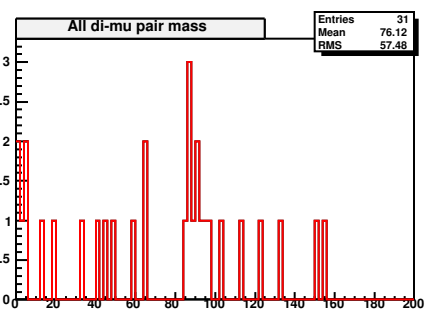


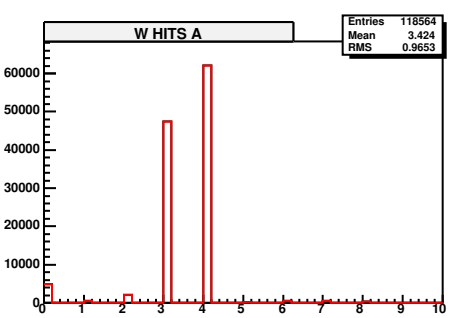


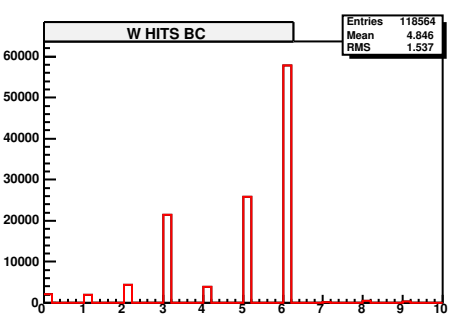


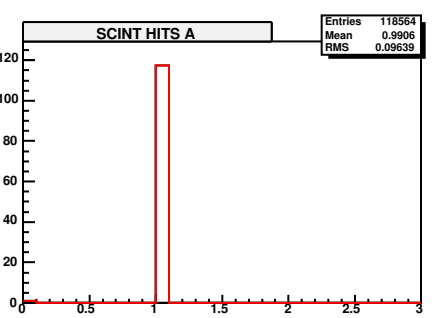


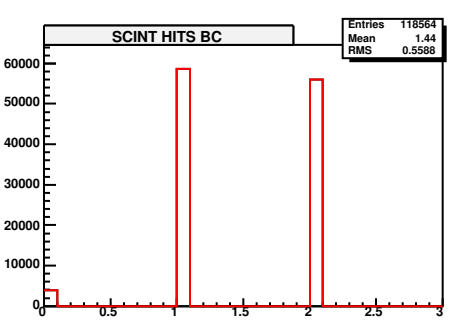




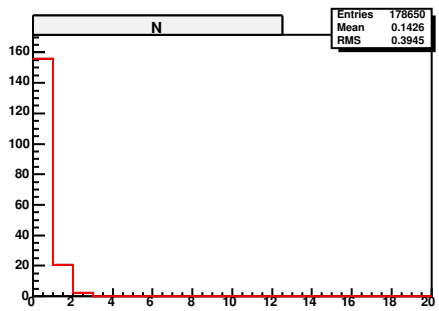


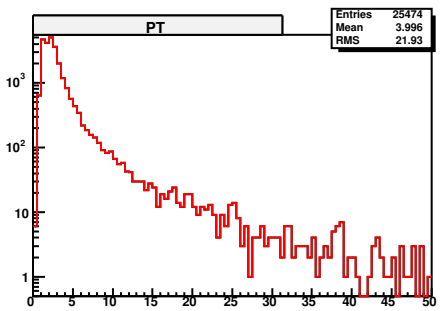


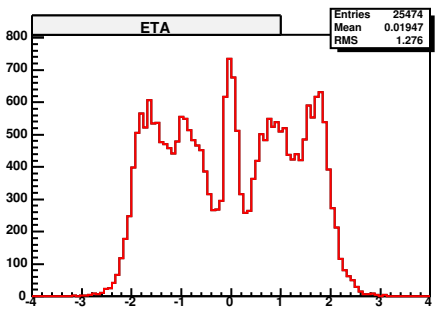


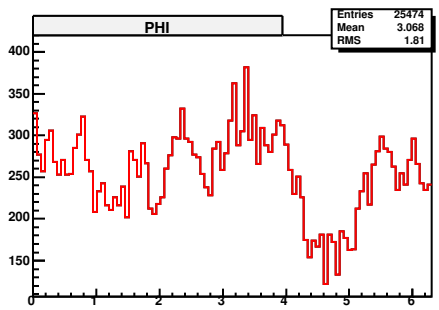


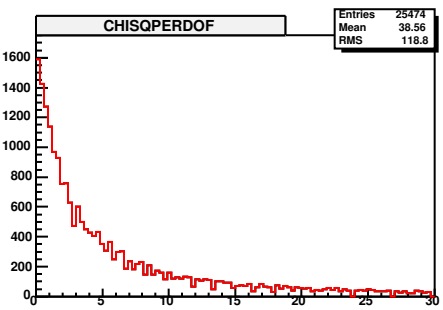
Muons (Matched)

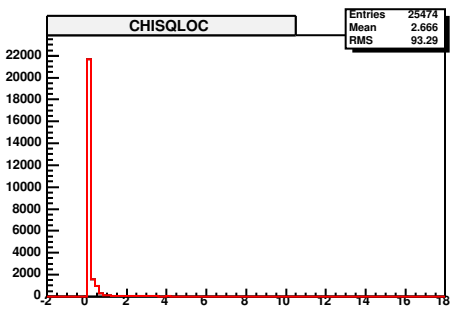

N
Entries 178650
Mean 0.1426
RMS 0.3945

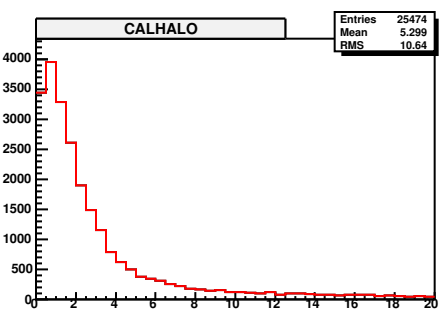

PT
Entries 25474
Mean 3.996
RMS 21.93

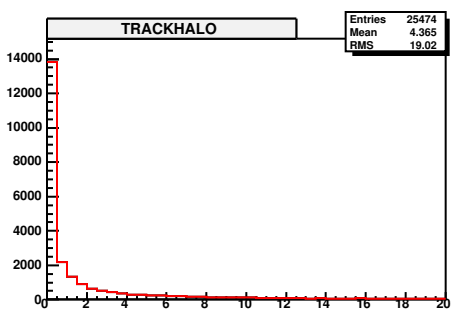

ETA
Entries 25474
Mean 0.01947
RMS 1.276

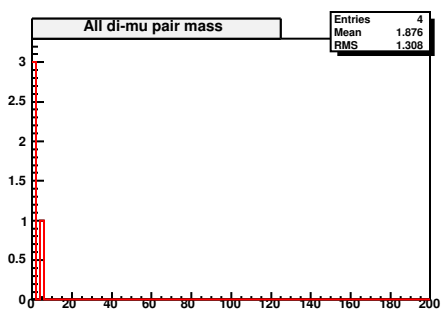

PHI
Entries 25474
Mean 3.068
RMS 1.81

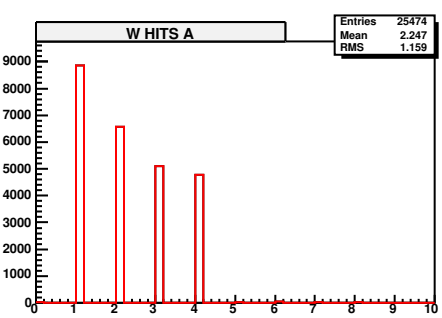

CHISQPERDOF
Entries 25474
Mean 38.56
RMS 118.8

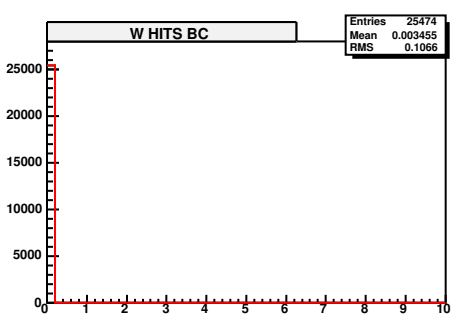

CHISQLOC
Entries 25474
Mean 2.666
RMS 93.29

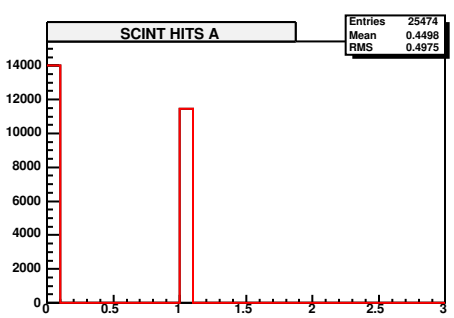

CALHALO
Entries 25474
Mean 5.299
RMS 10.64

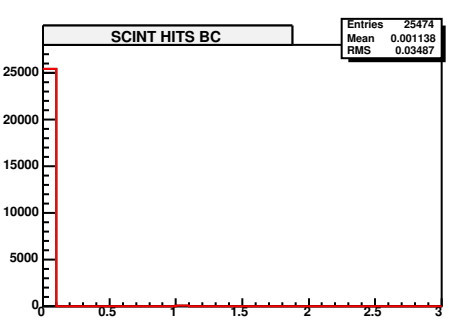

TRACKHALO
Entries 25474
Mean 4.365
RMS 19.02


All di-mu pair mass
Entries 4
Mean 1.876
RMS 1.308

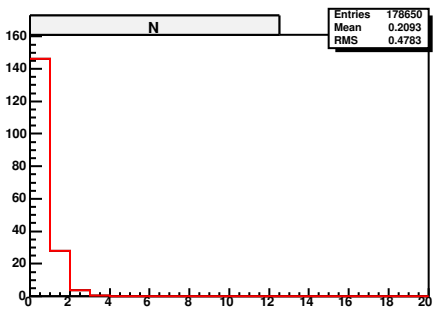

W HITS A
Entries 25474
Mean 2.247
RMS 1.159

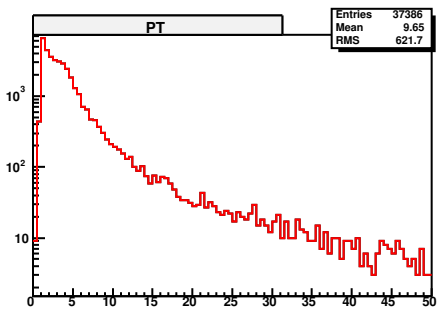

W HITS BC
Entries 25474
Mean 0.003455
RMS 0.1066

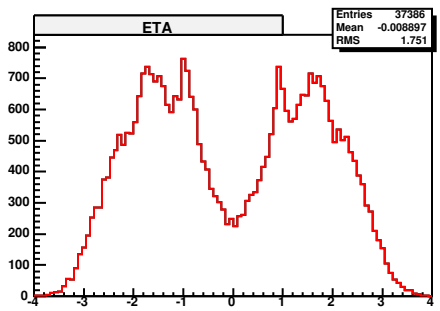

SCINT HITS A
Entries 25474
Mean 0.4498
RMS 0.4975

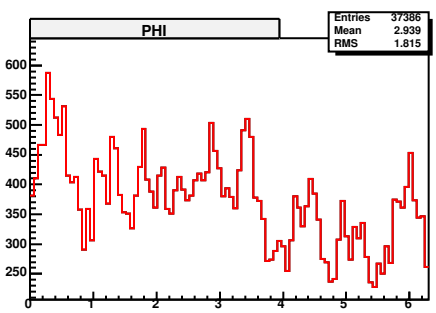

SCINT HITS BC
Entries 25474
Mean 0.001138
RMS 0.03487

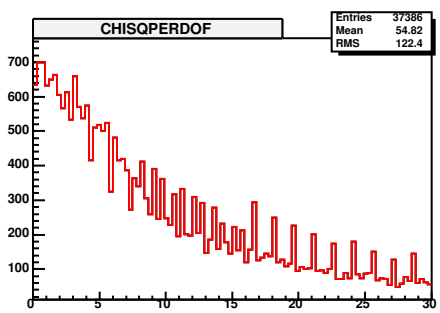
Muons (Astub)

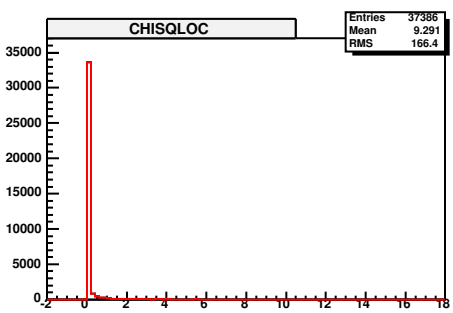


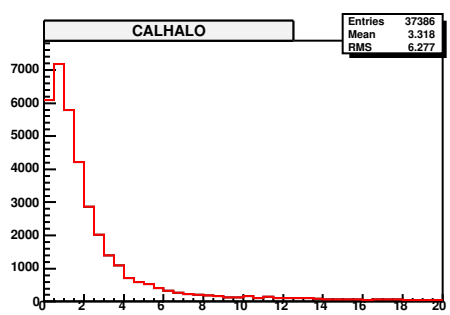


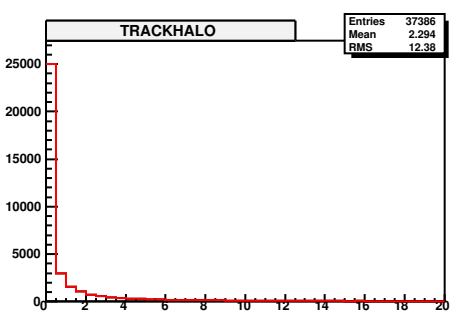


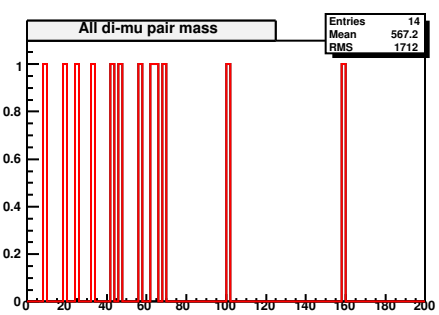


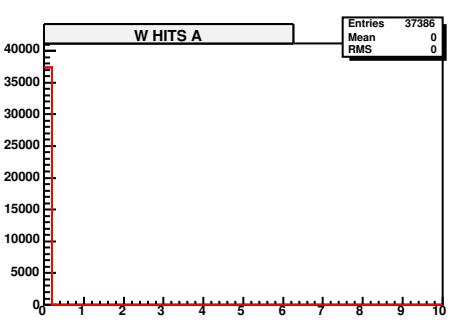


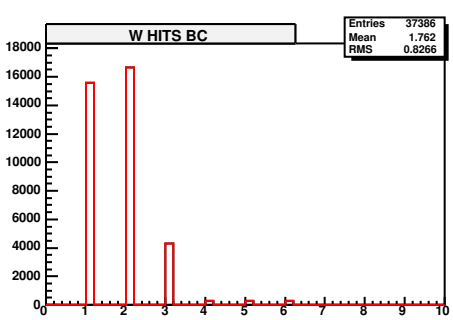


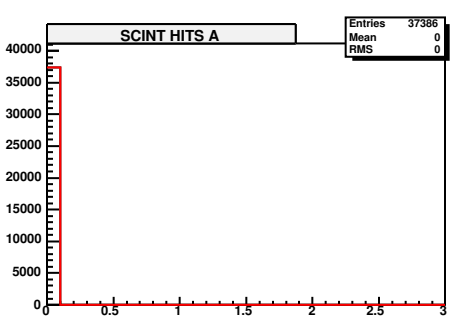


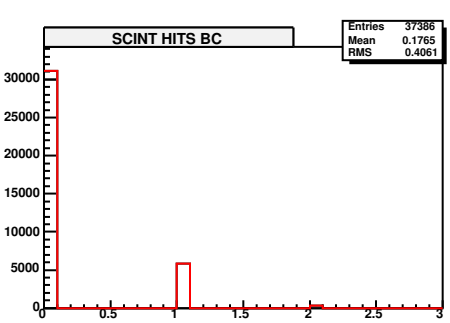




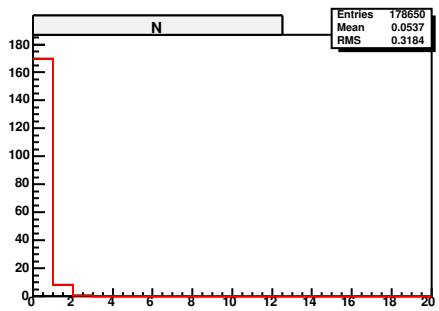


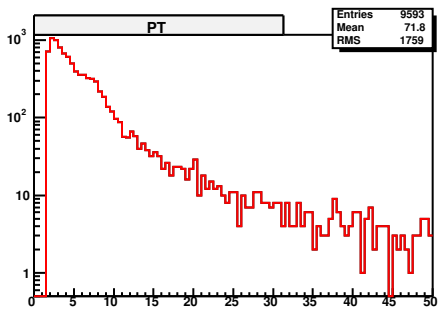


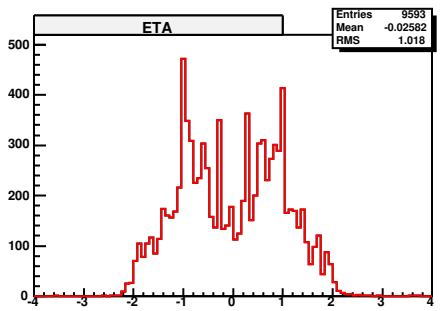


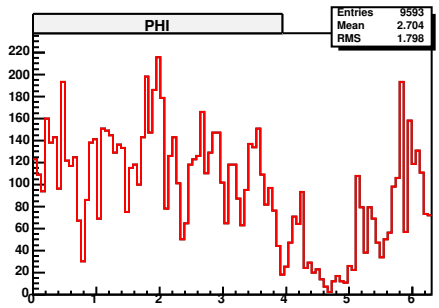


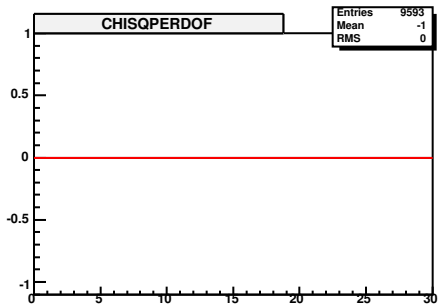
Muons (BCstub)

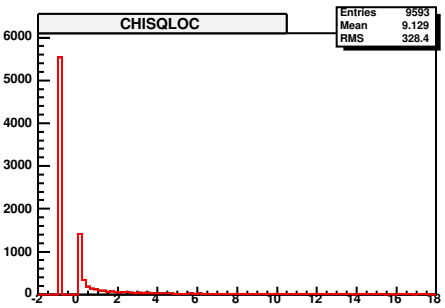


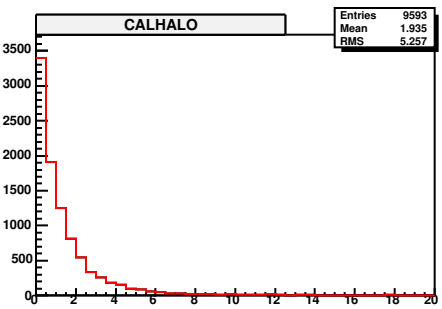


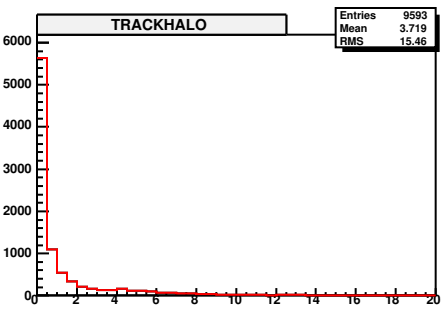


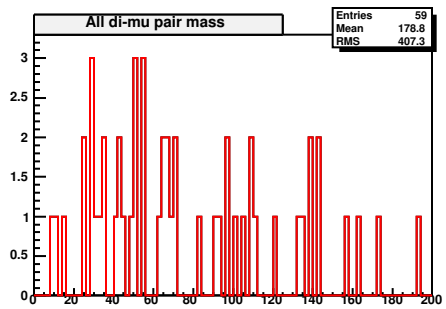


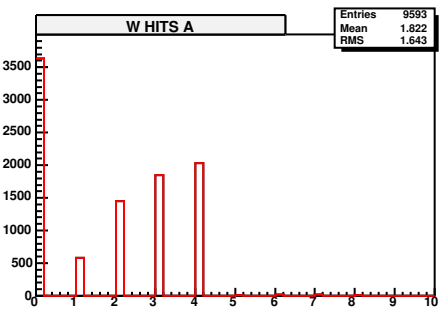


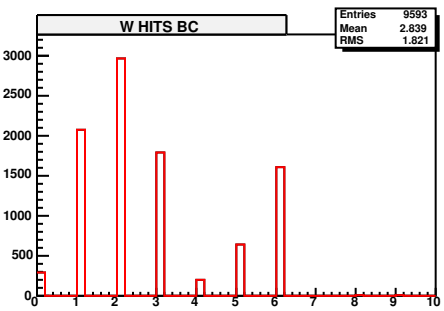


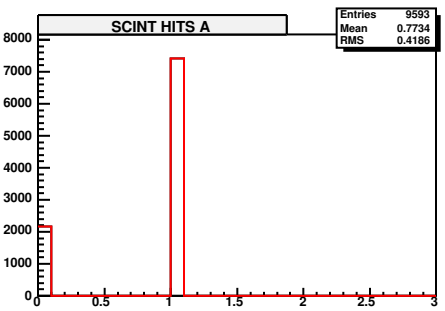


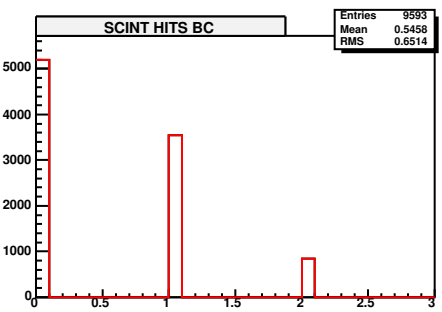




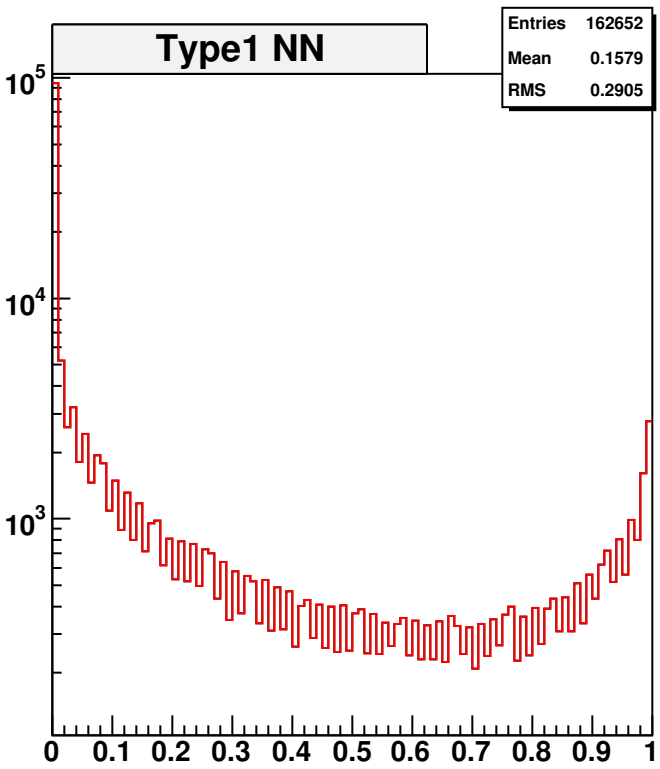


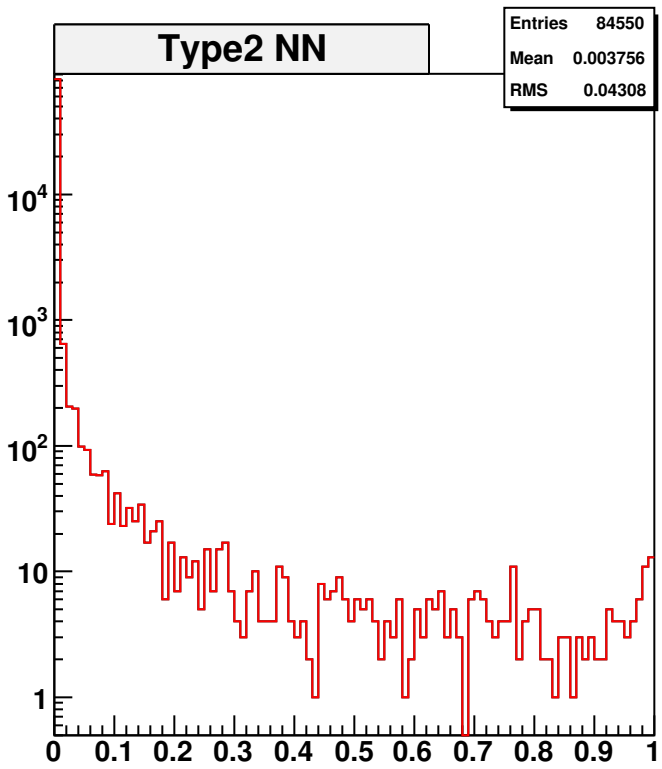


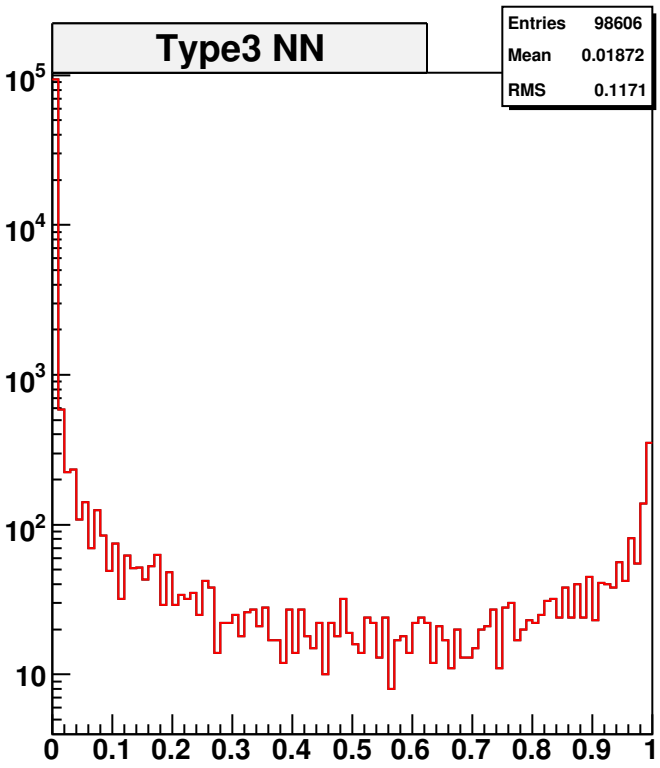


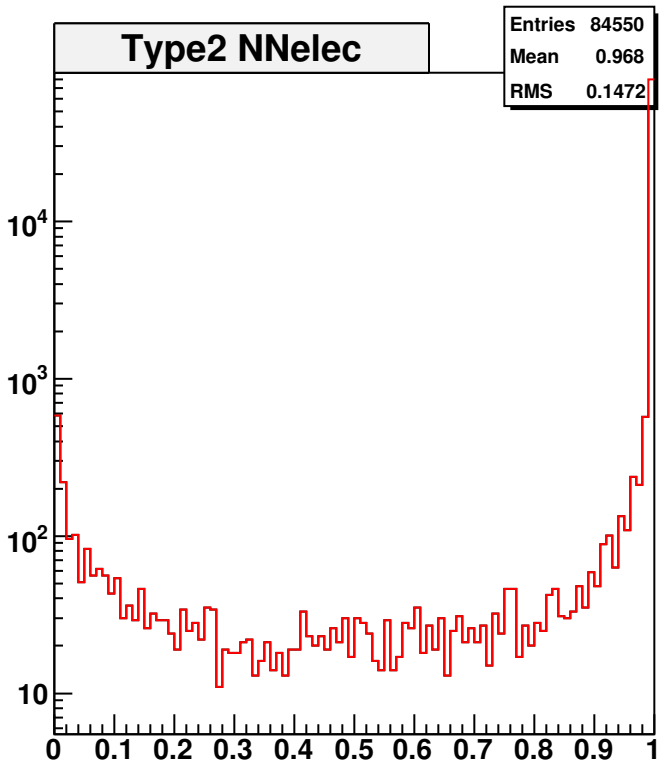


Muons (Unmatched)

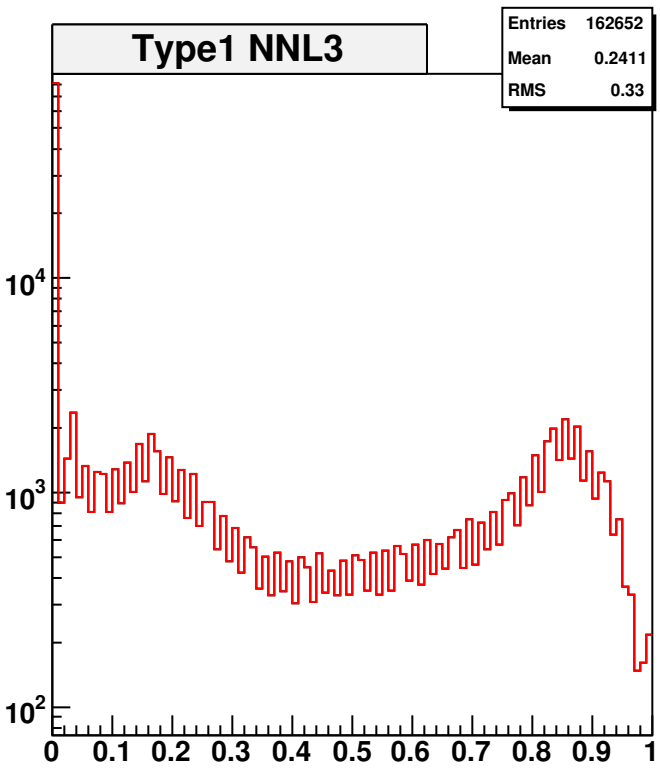


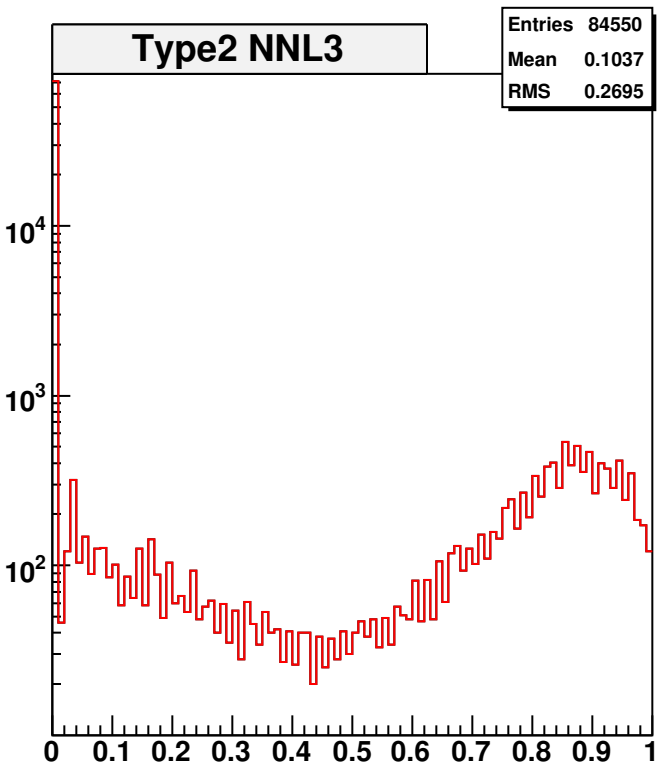


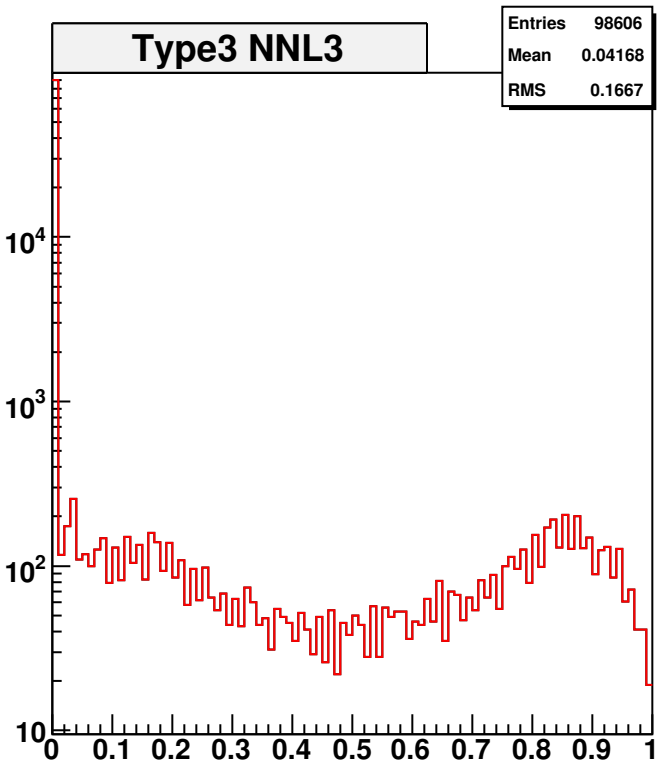


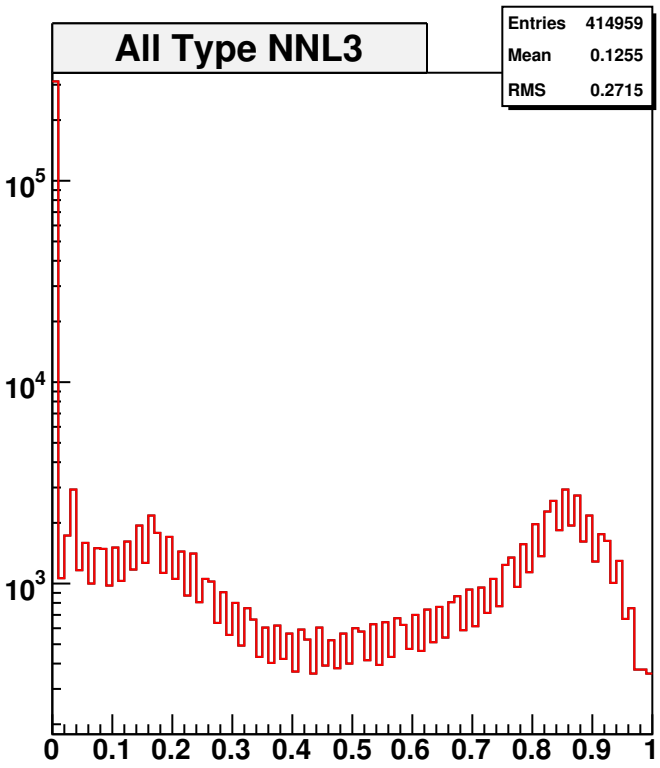


Taus NN (TAU All)

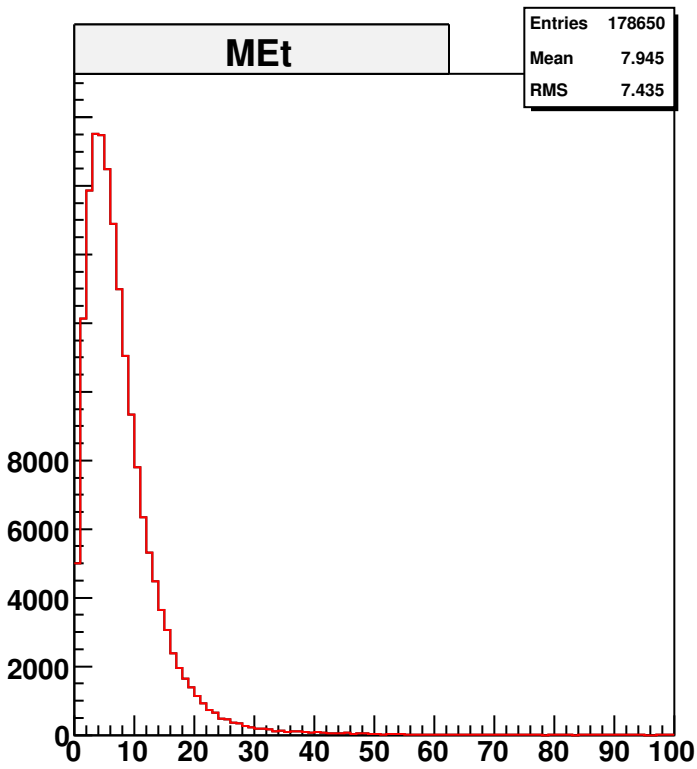


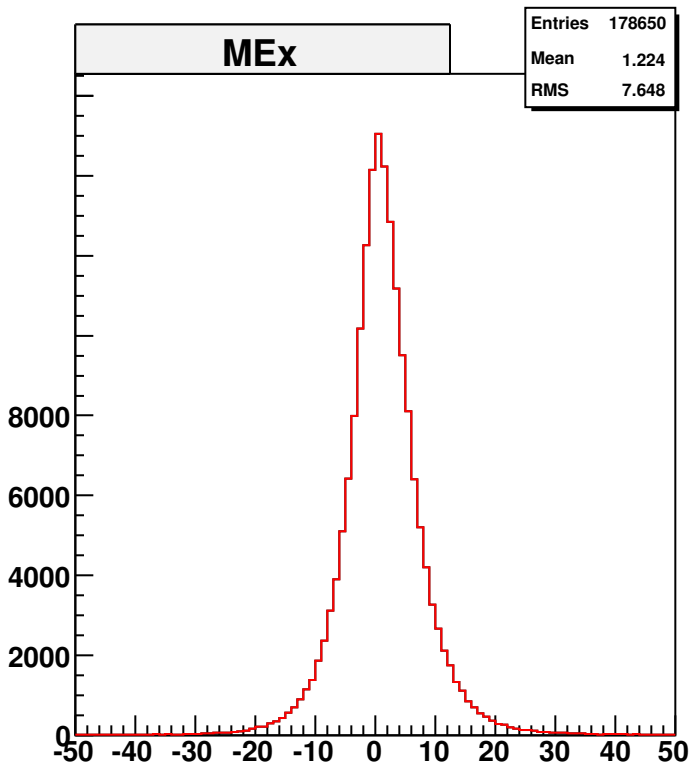


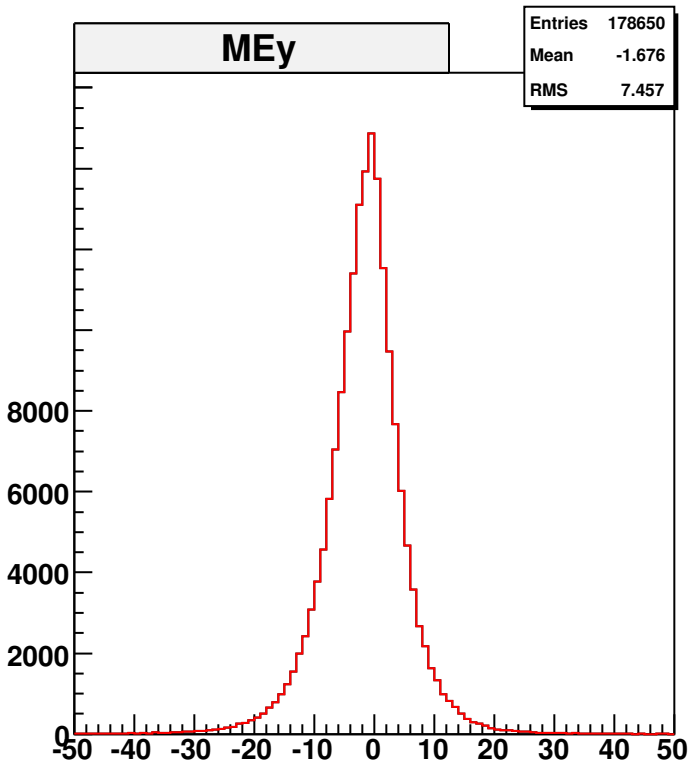




Taus NNL3 (TAU All)


MEt
Entries 178650
Mean 7.945
RMS 7.435
8000
6000
4000
2000
0
0 10 20 30 40 50 60 70 80 90 100


MEx
Entries 178650
Mean 1.224
RMS 7.648
8000
6000
4000
2000
0
-50 -40 -30 -20 -10 0 10 20 30 40 50


MEy
Entries 178650
Mean -1.676
RMS 7.457
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6000
4000
2000
0
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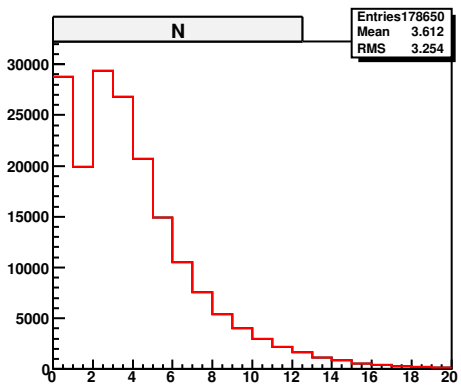
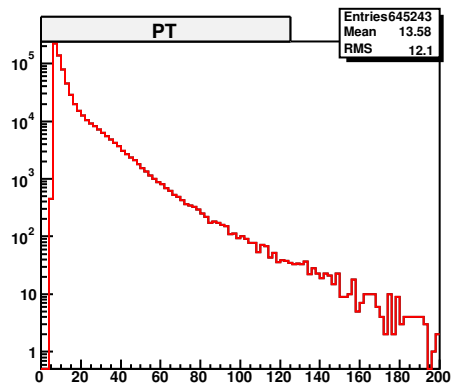
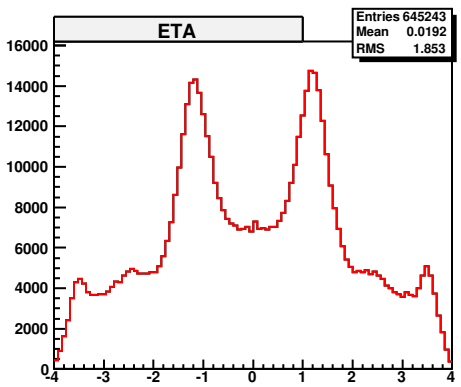
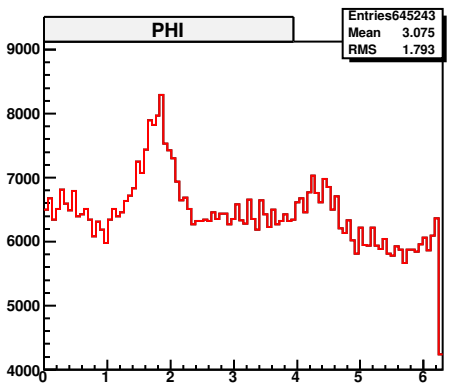
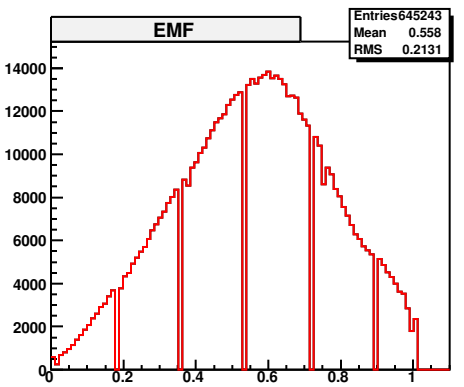
Met (No cuts)

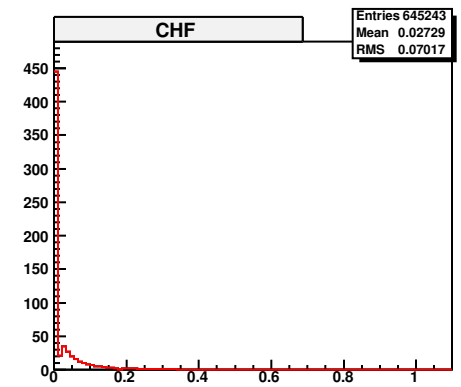


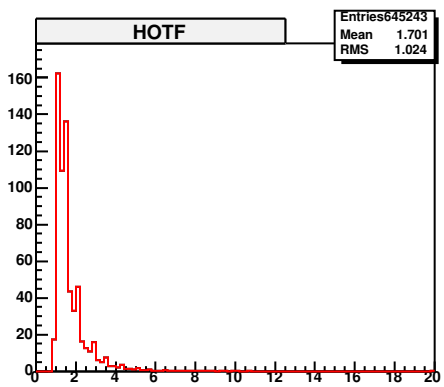


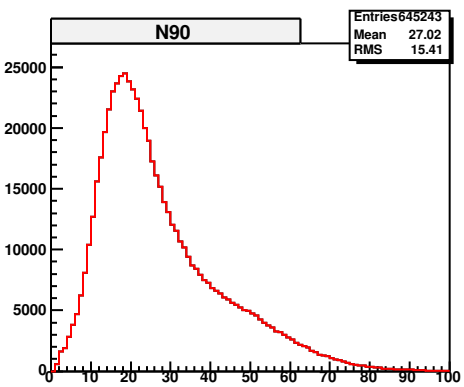


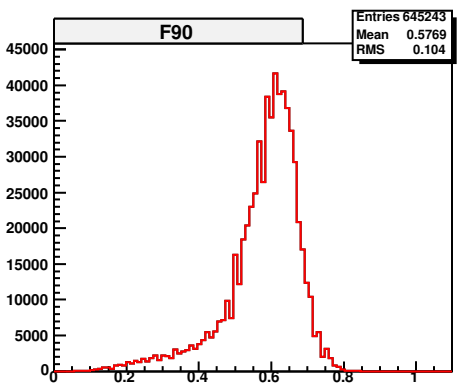


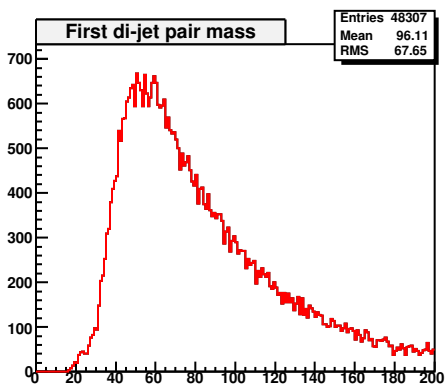


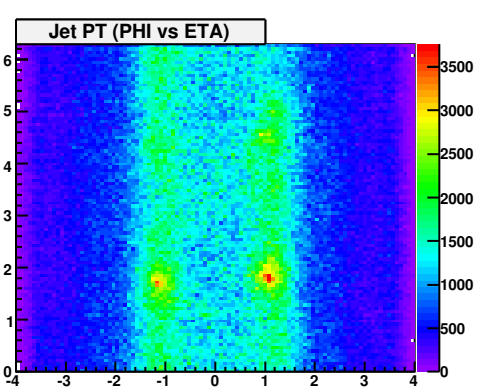




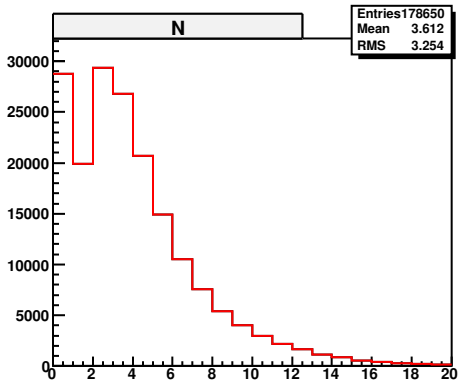


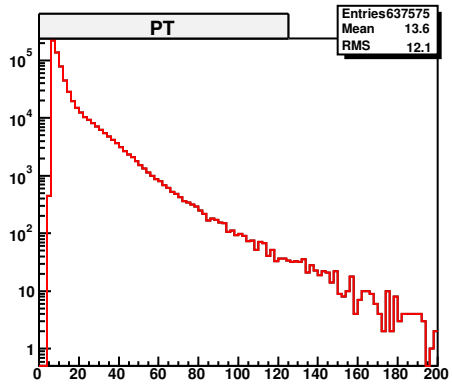


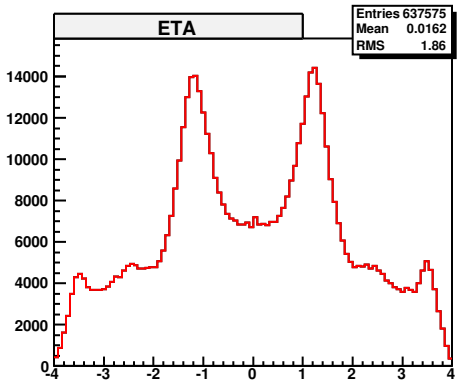


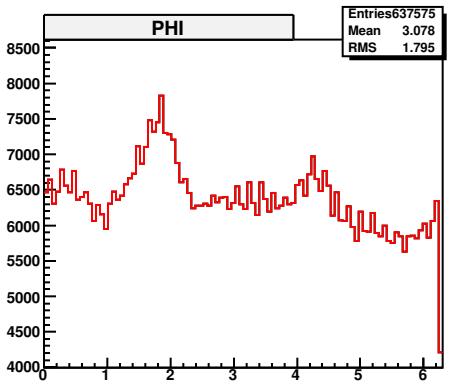


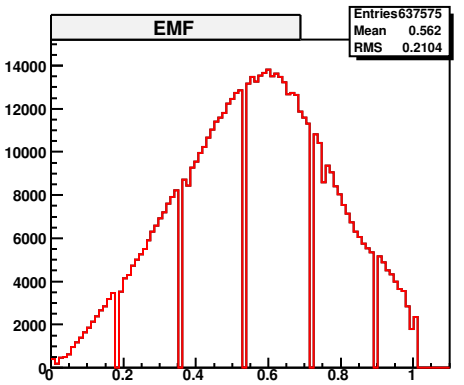
Jets (Cone R 0.7 (no cuts))

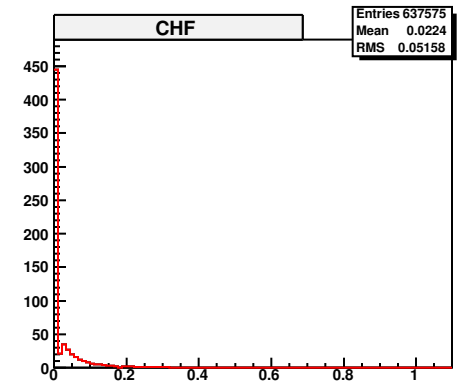


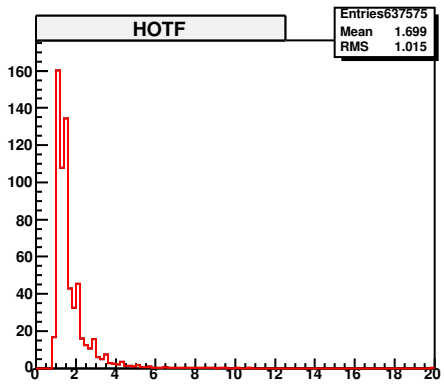


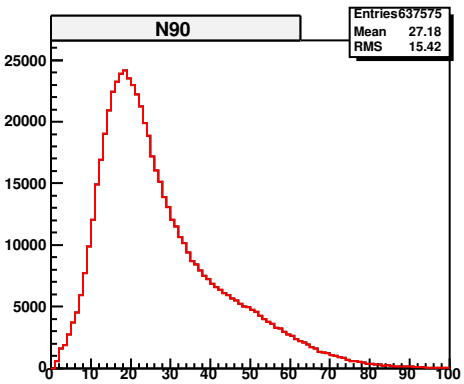


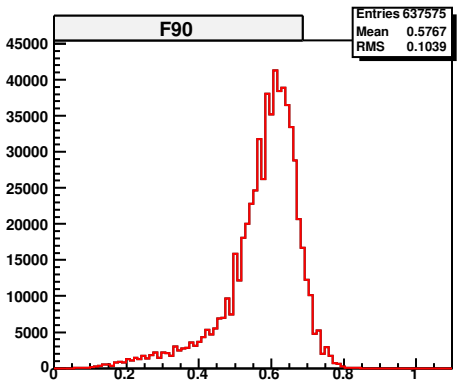


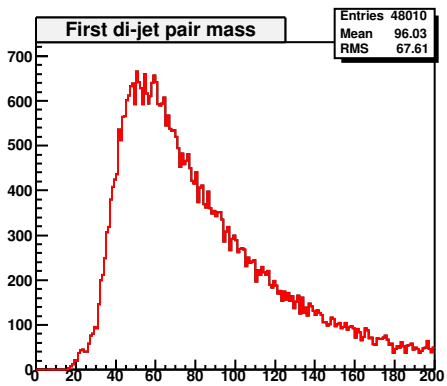


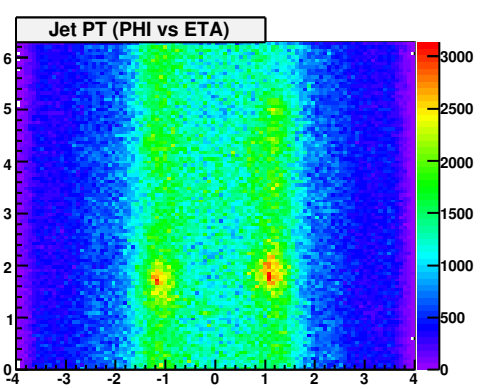




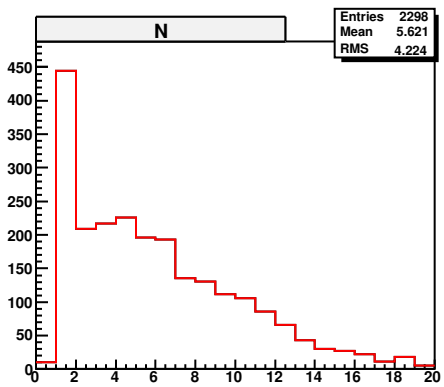


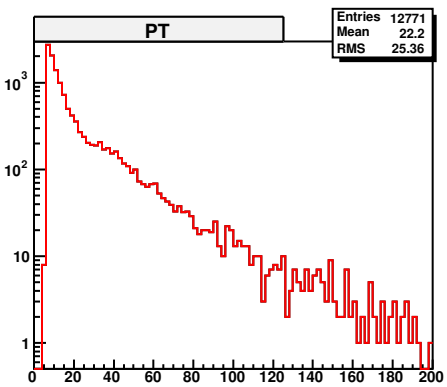


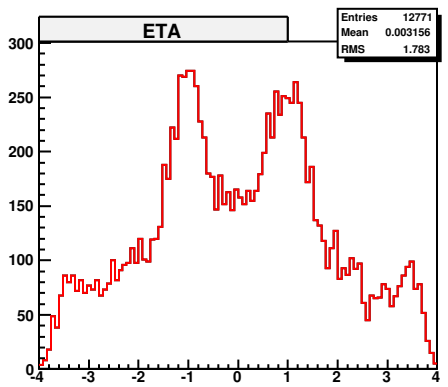


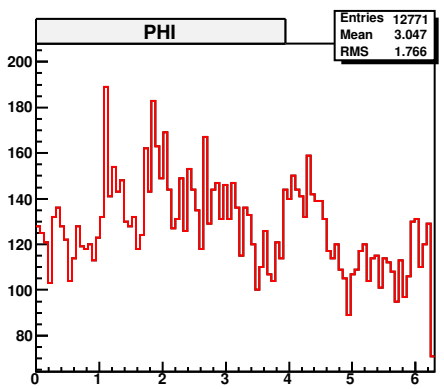


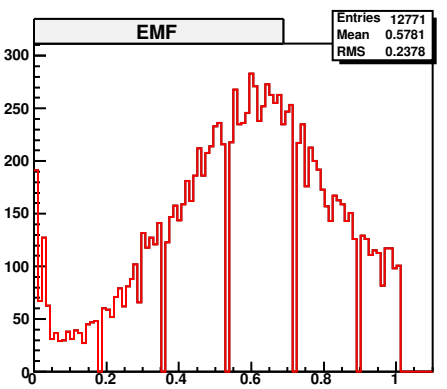
Jets (Cone R 0.7 (standard cuts))

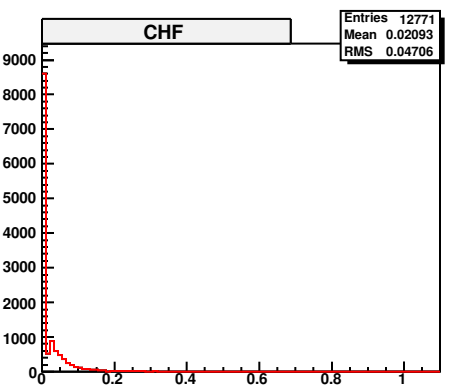


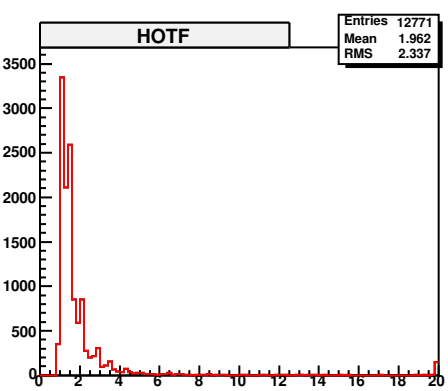


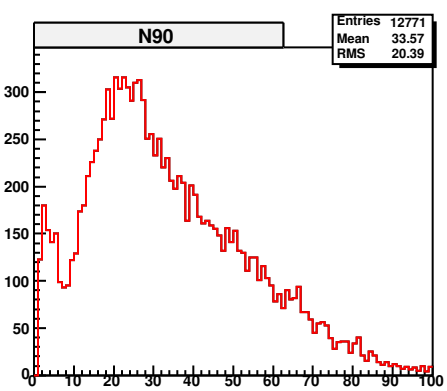


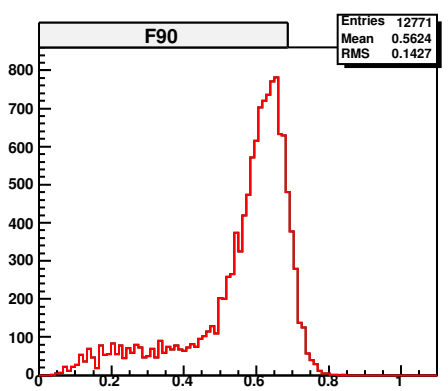


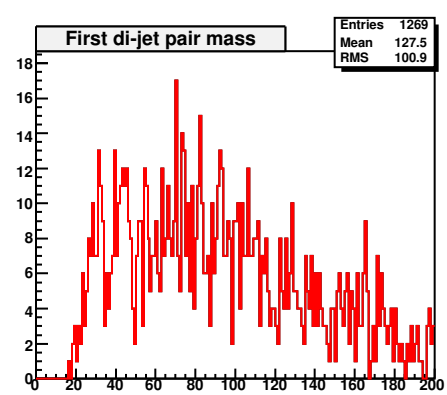


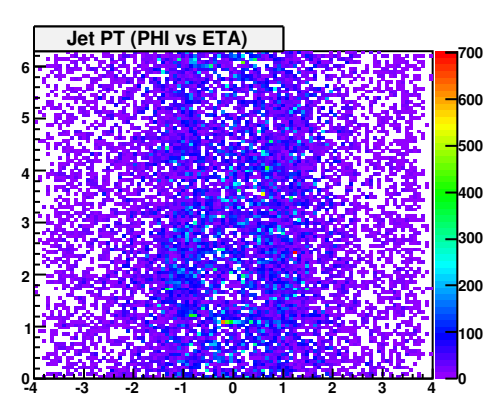




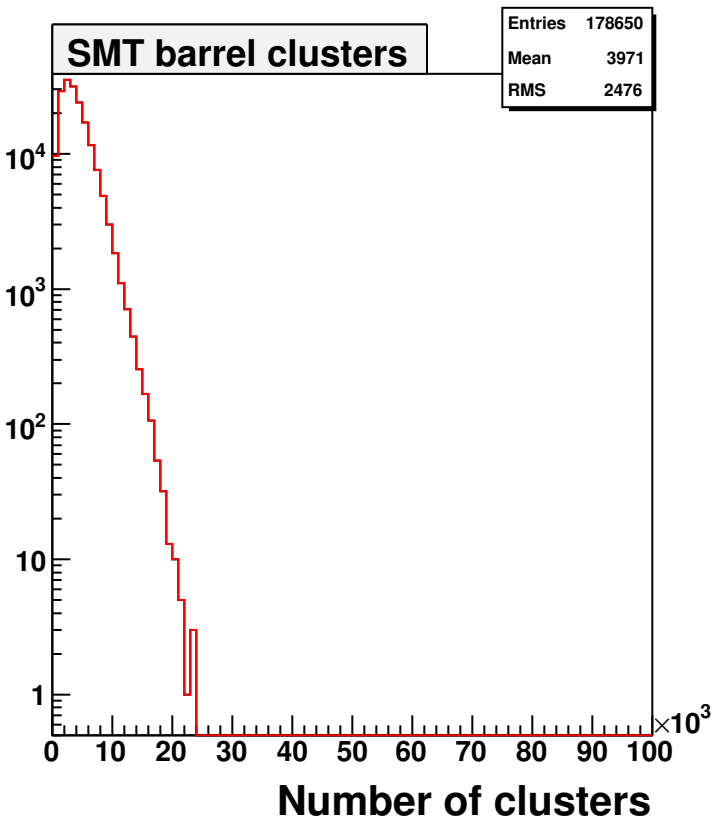


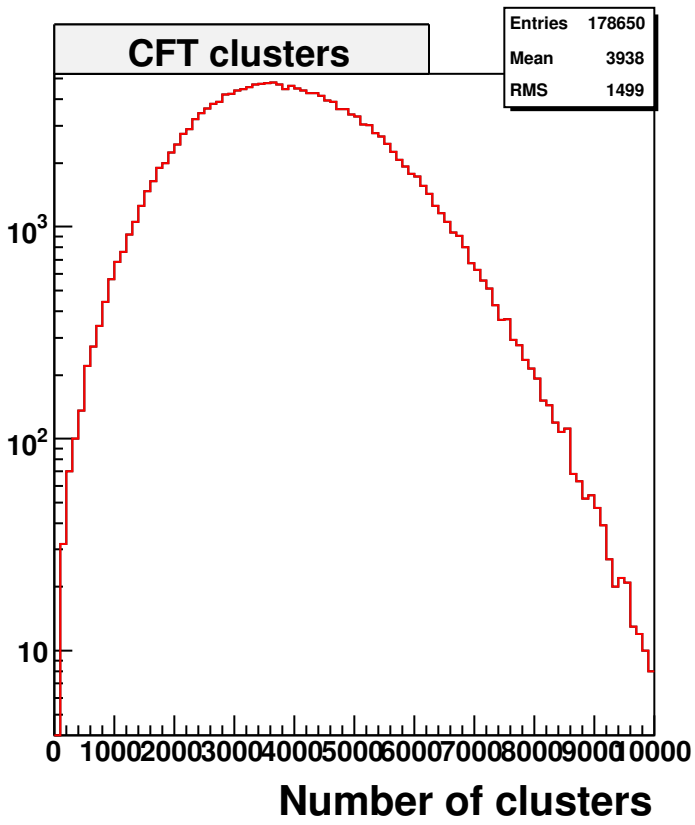


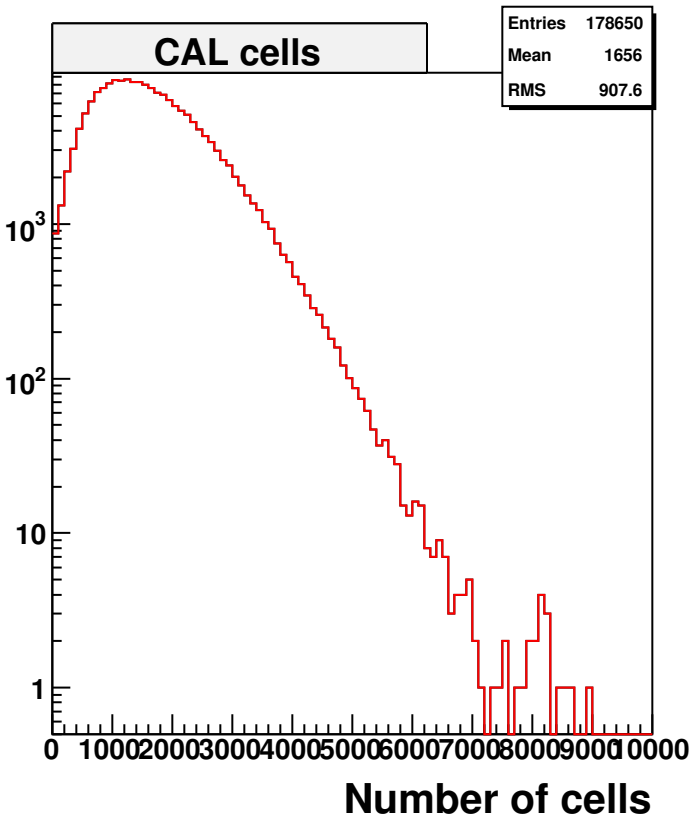


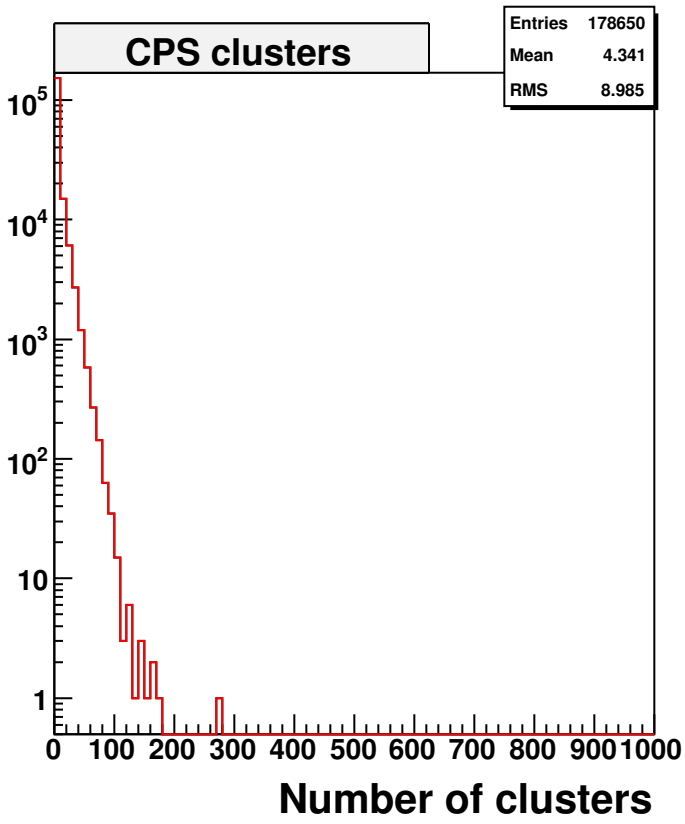


Jets (Cone R 0.7 (standard cuts, MET>30))

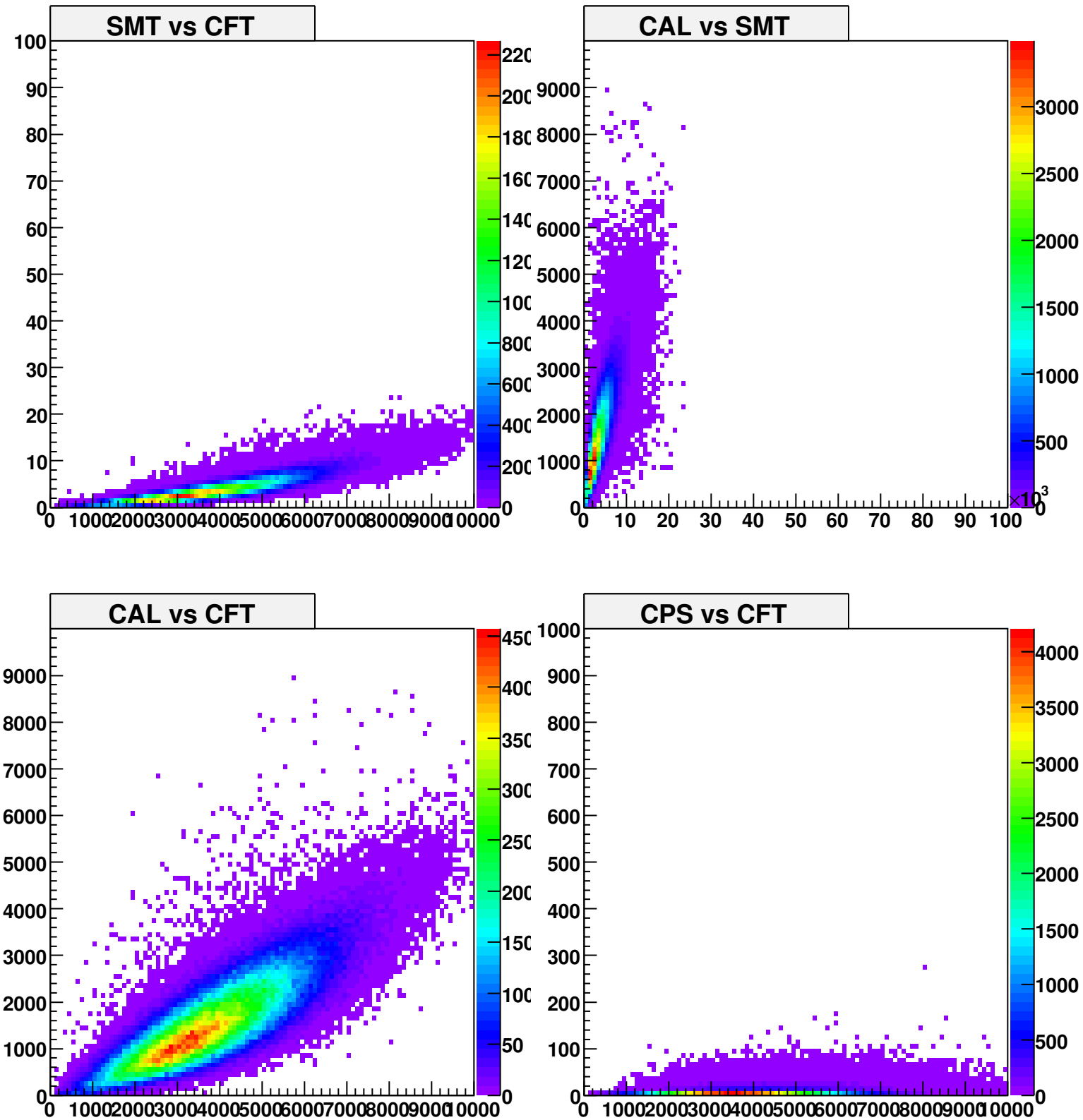


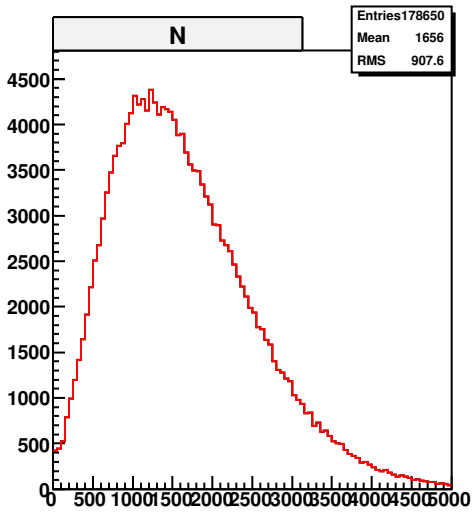


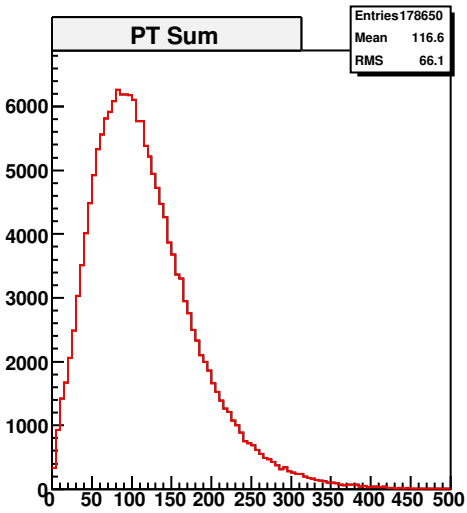


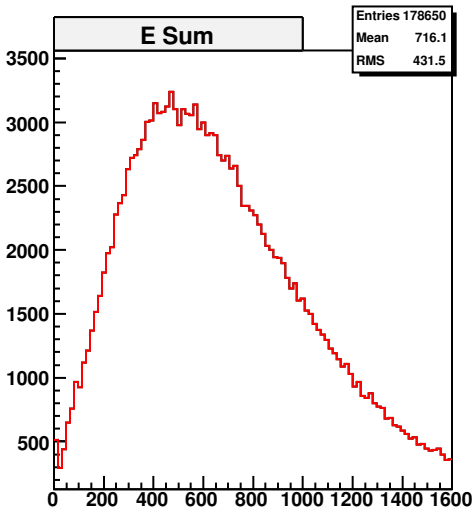


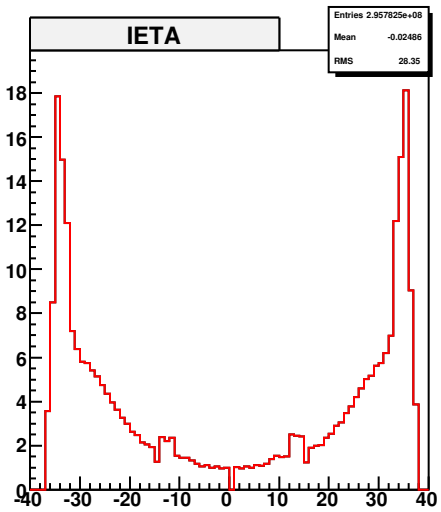
Detector Occupancy (Detector)

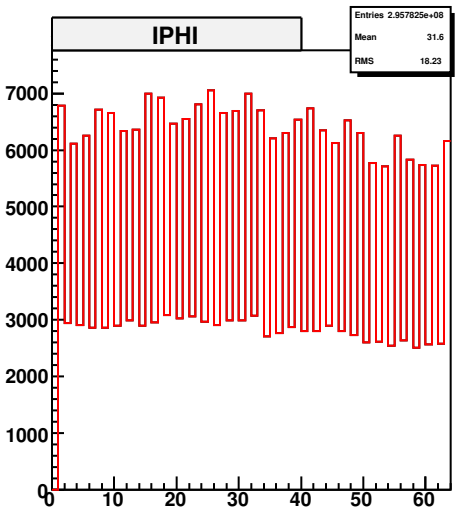

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

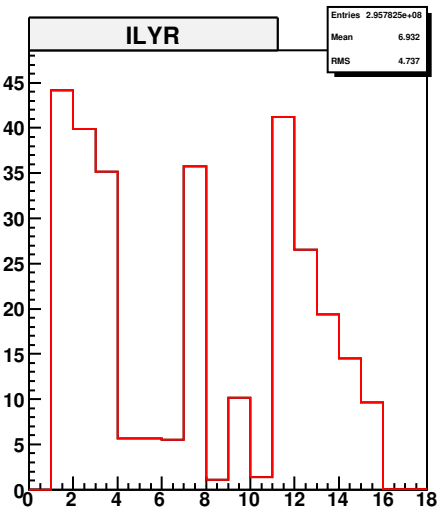


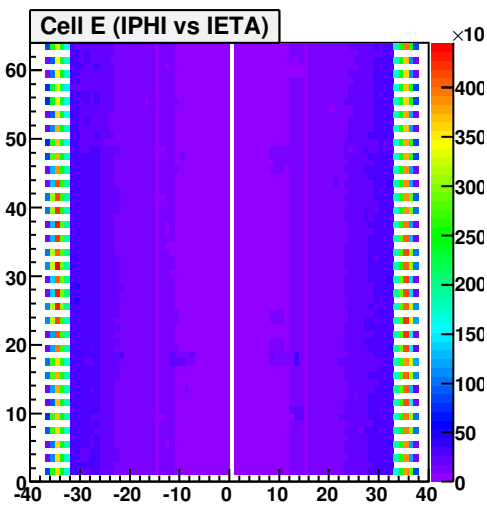


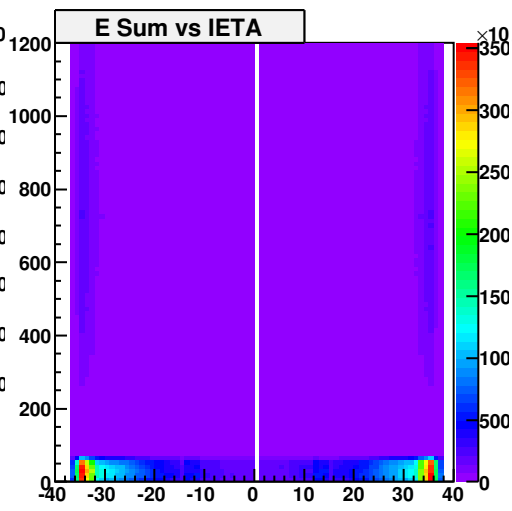


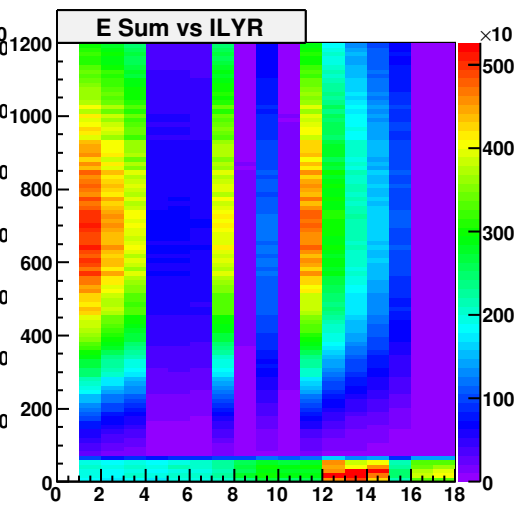




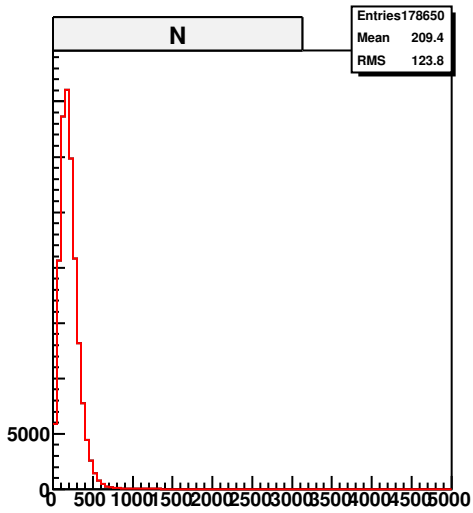


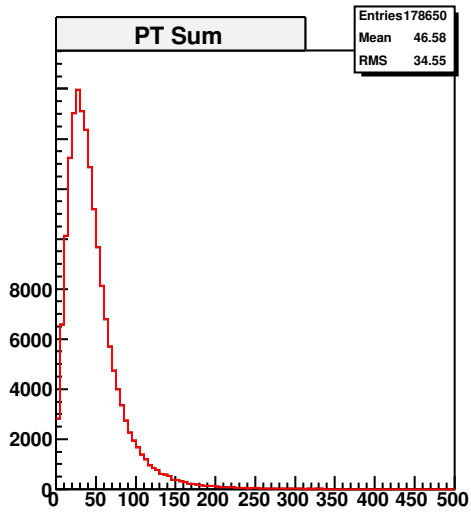


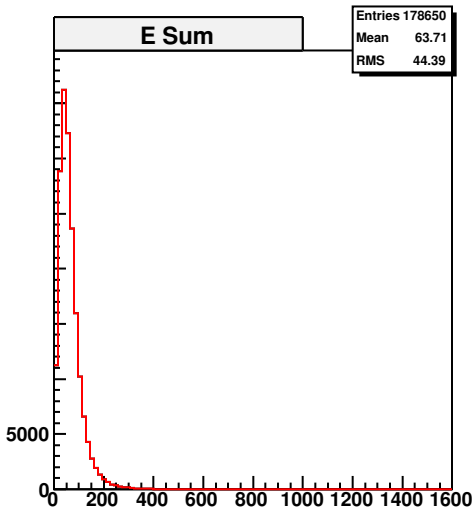


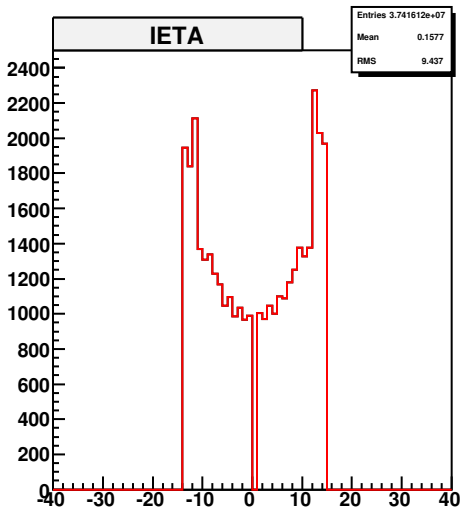


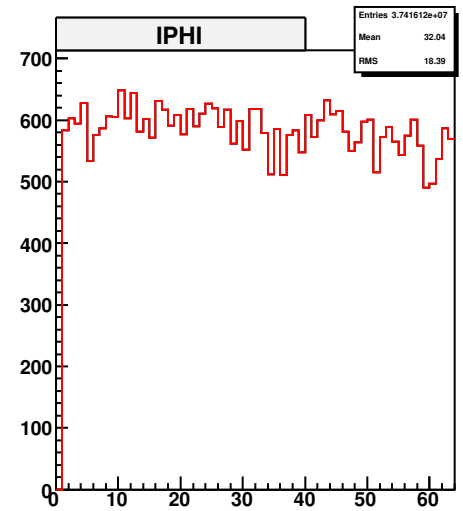
Calorimeter (All cells)

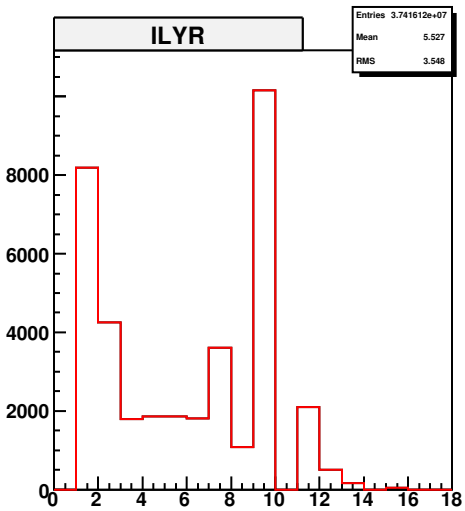


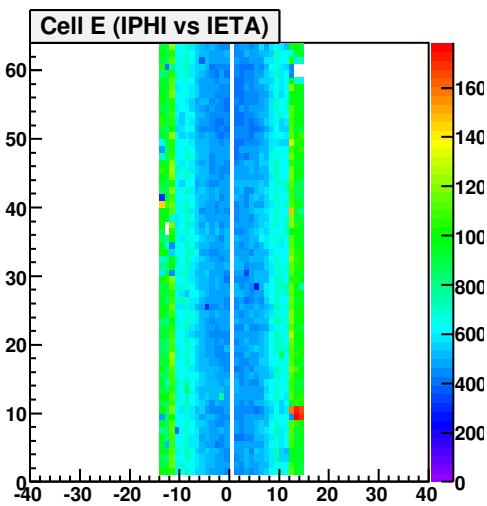


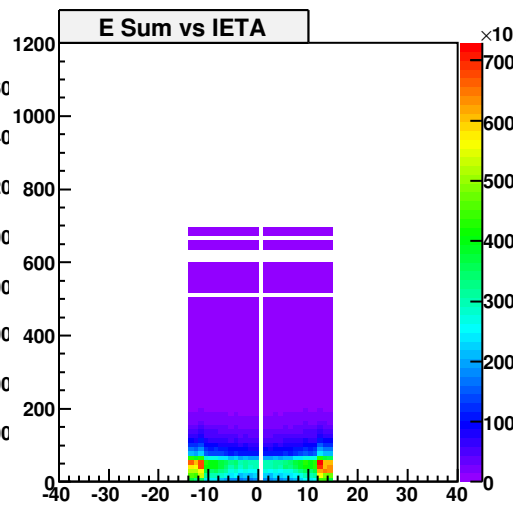


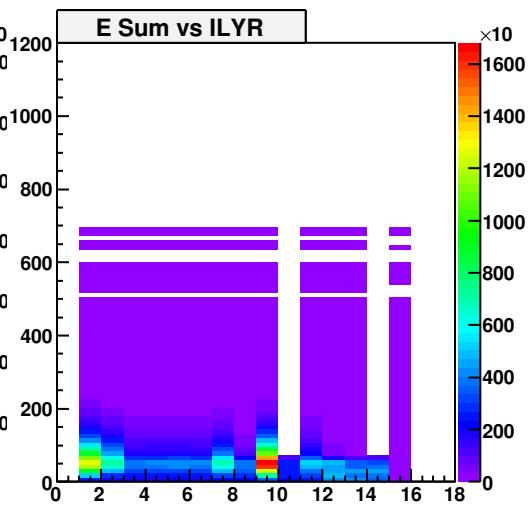




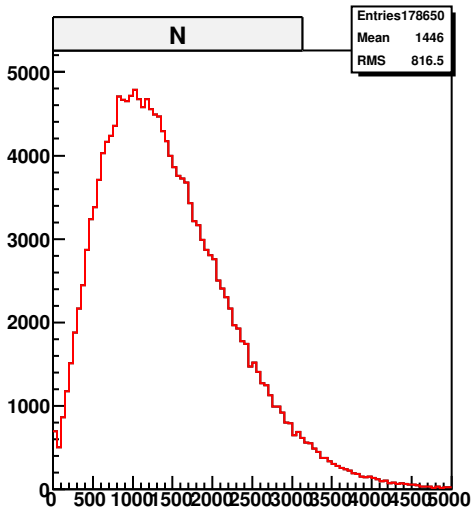


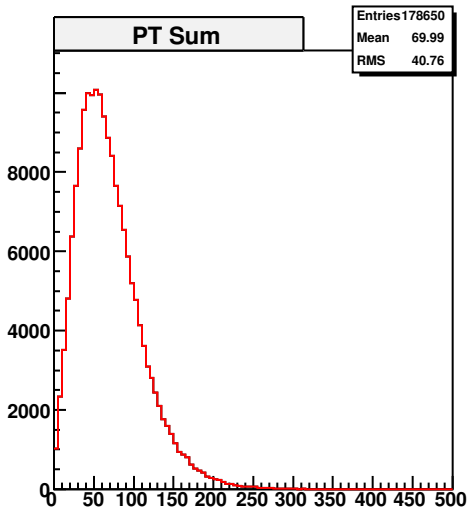


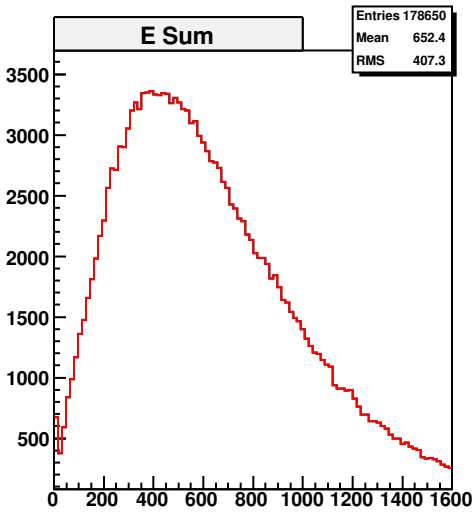


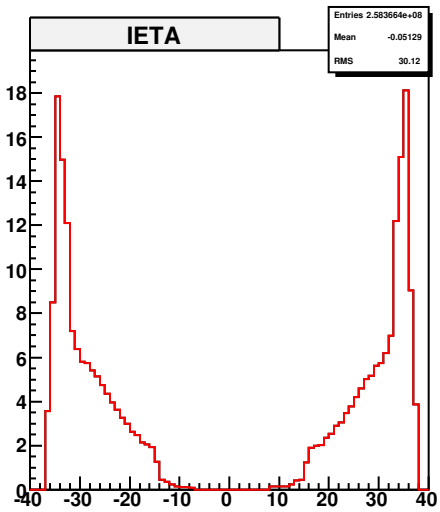


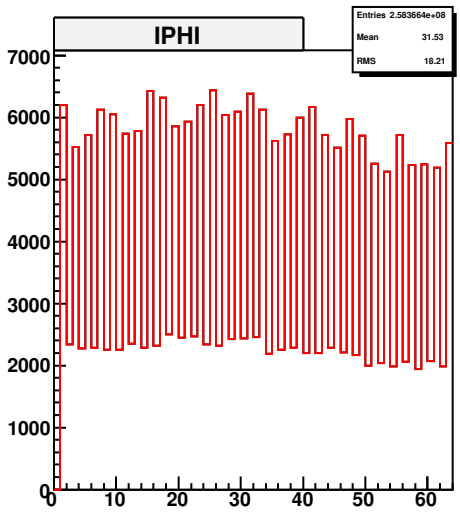
Calorimeter (All CC cells)

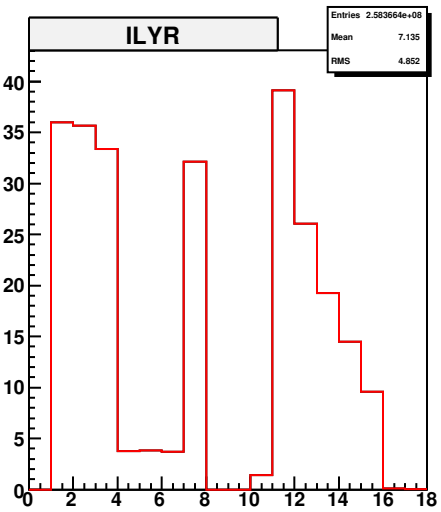


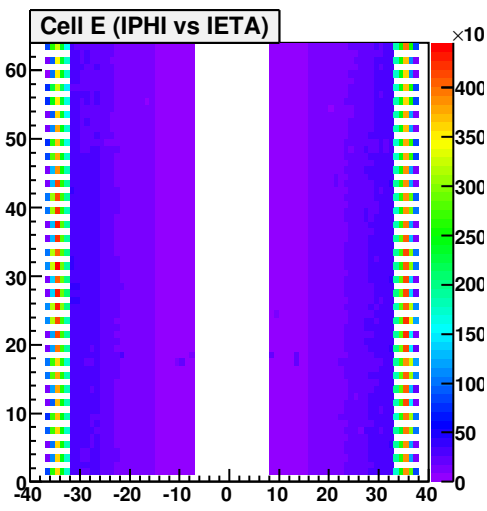


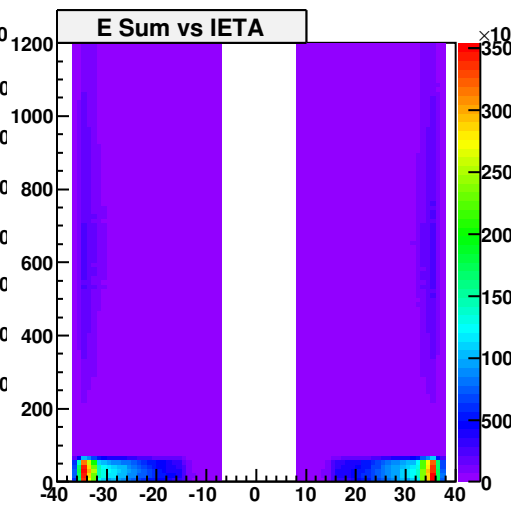


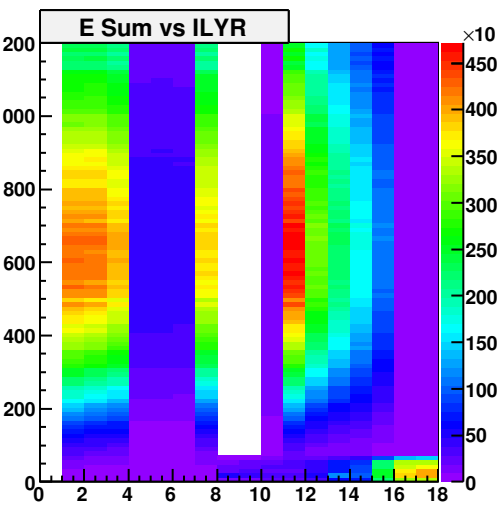




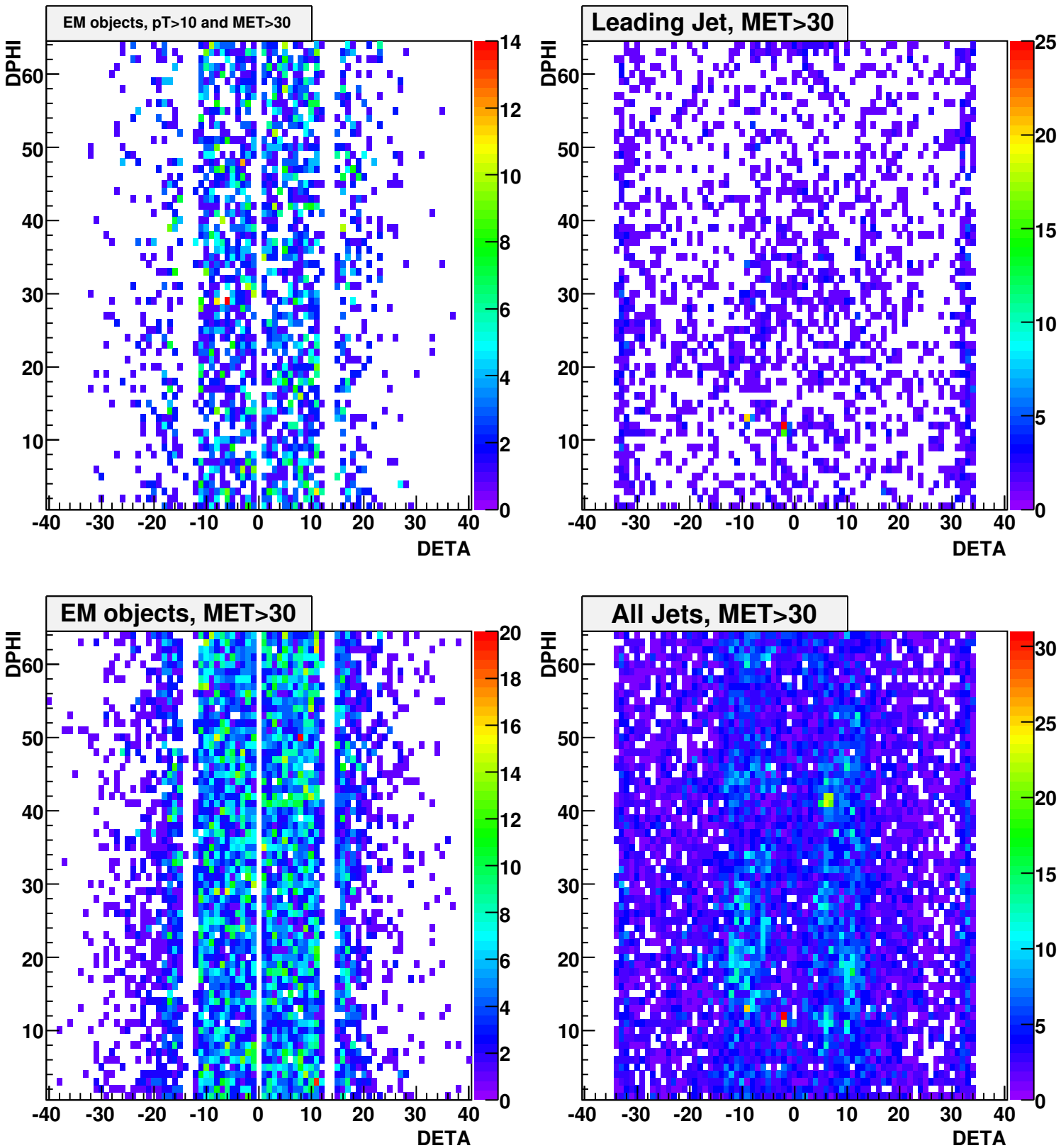




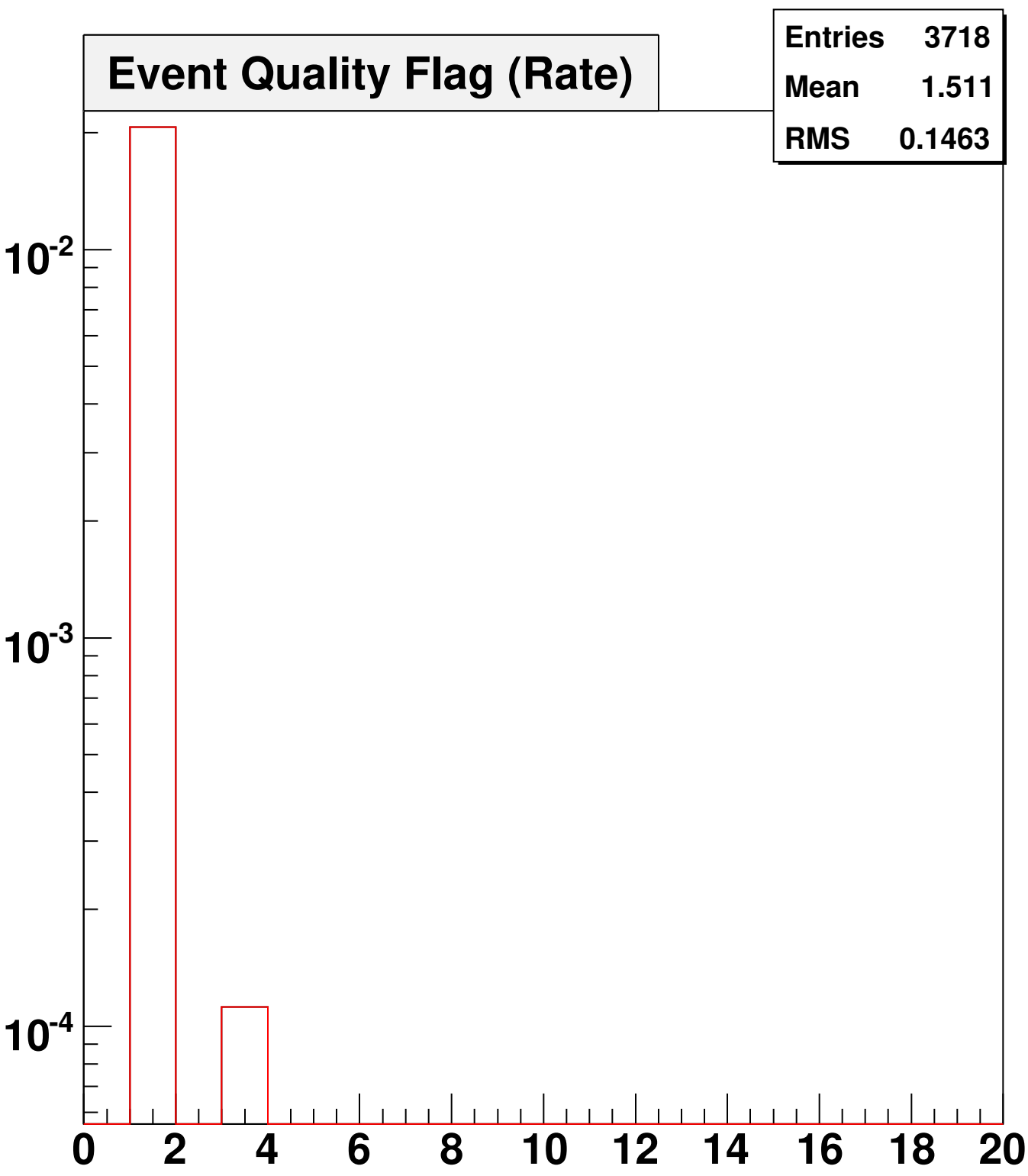


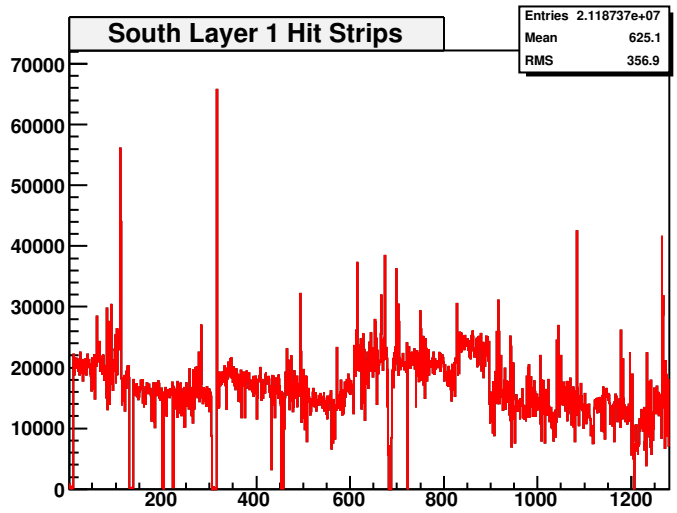


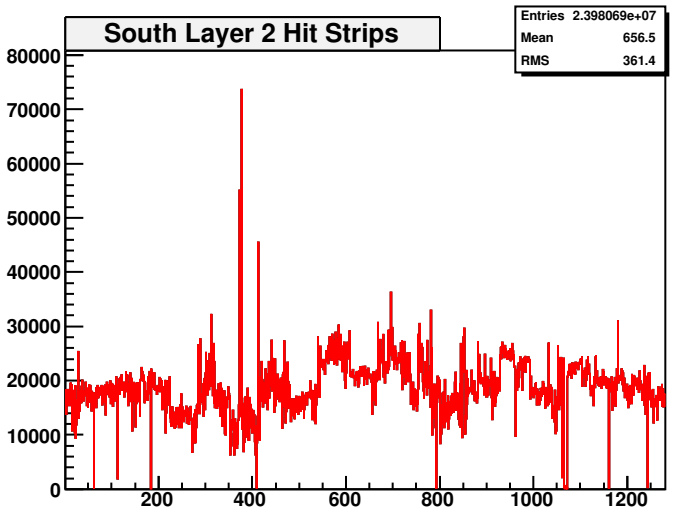
Calorimeter (All EC cells)

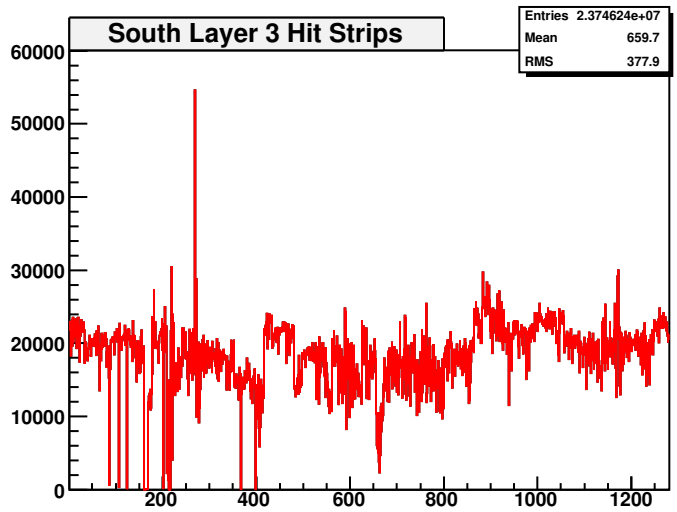


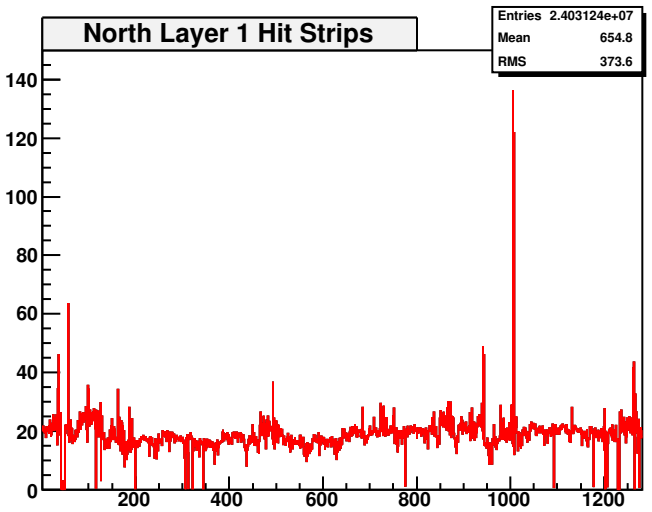
Cal Objects with MET>30 (All cells)

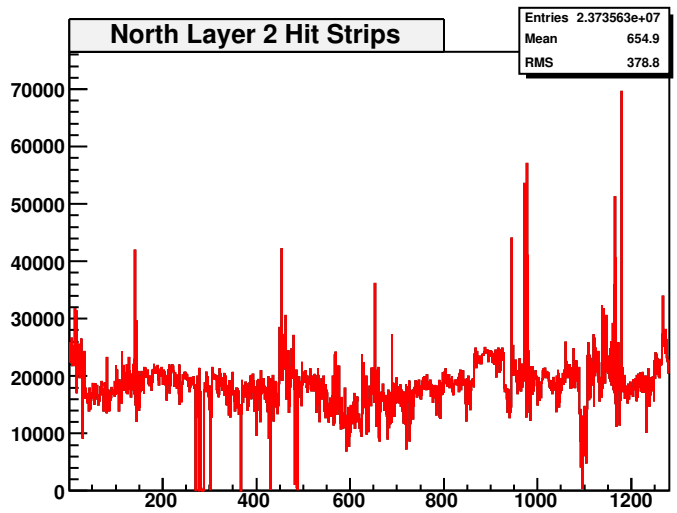

Event Quality Flag (Rate)
Entries 3718
Mean 1.511
RMS 0.1463
10-2
10-3
10-4
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

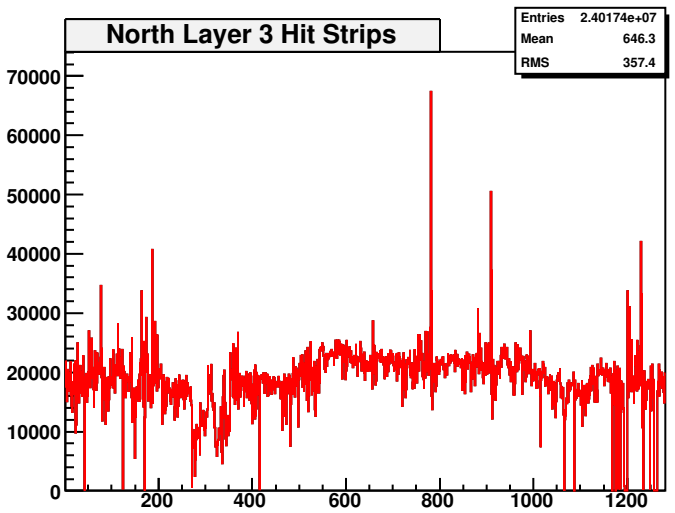




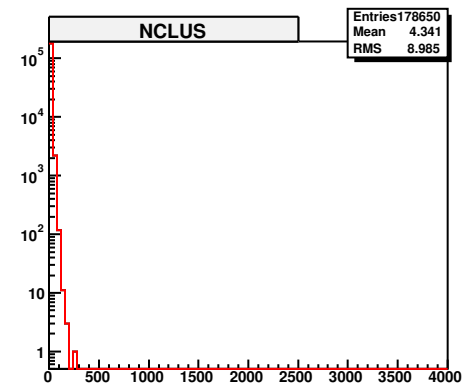


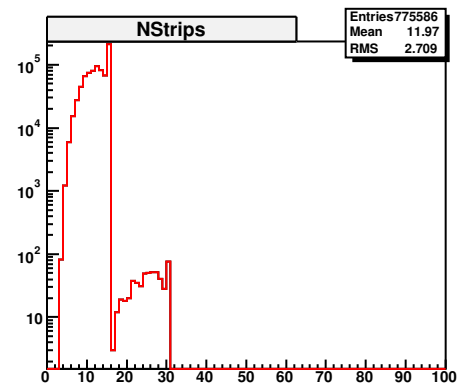


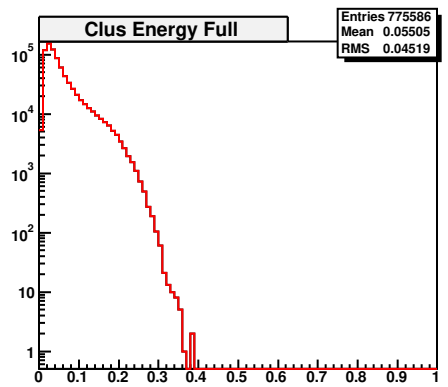


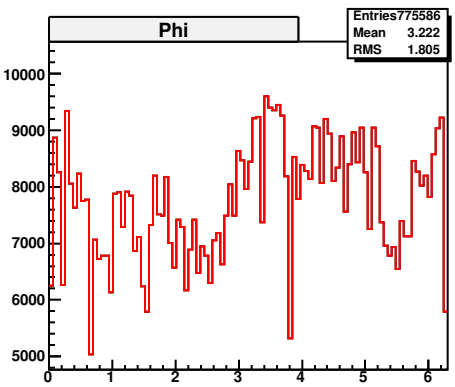


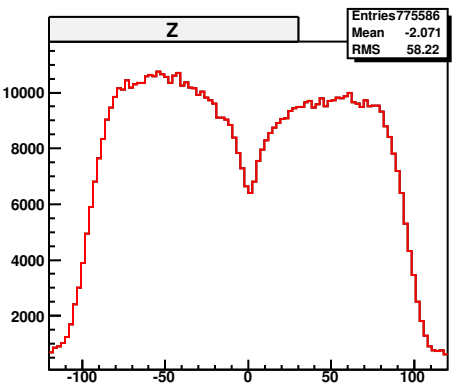
CPS Hit Strips (All Clusters)

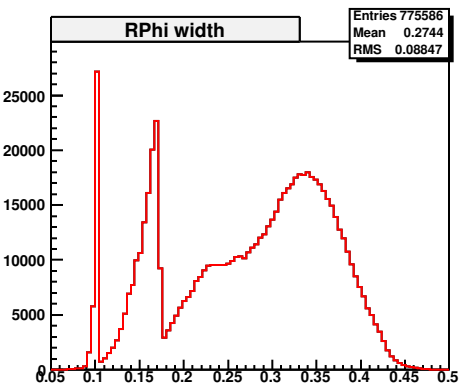


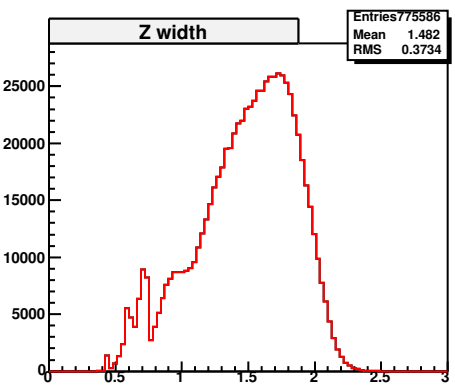


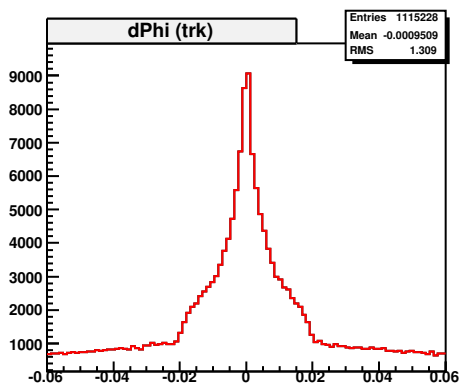


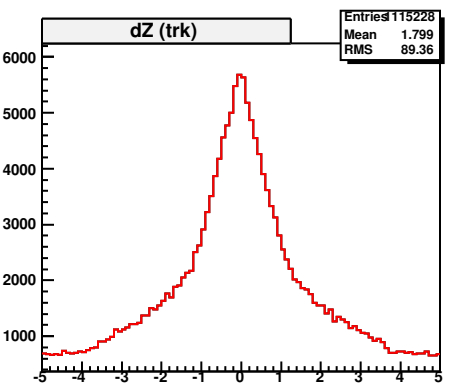


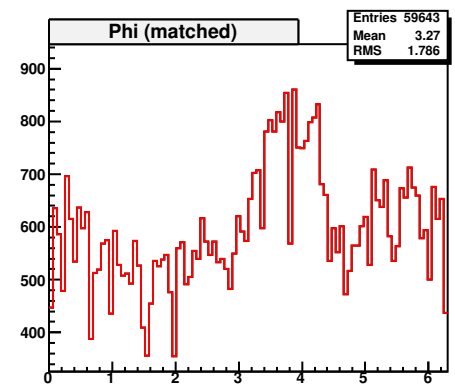


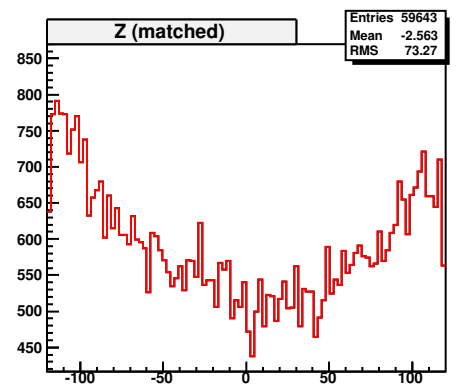




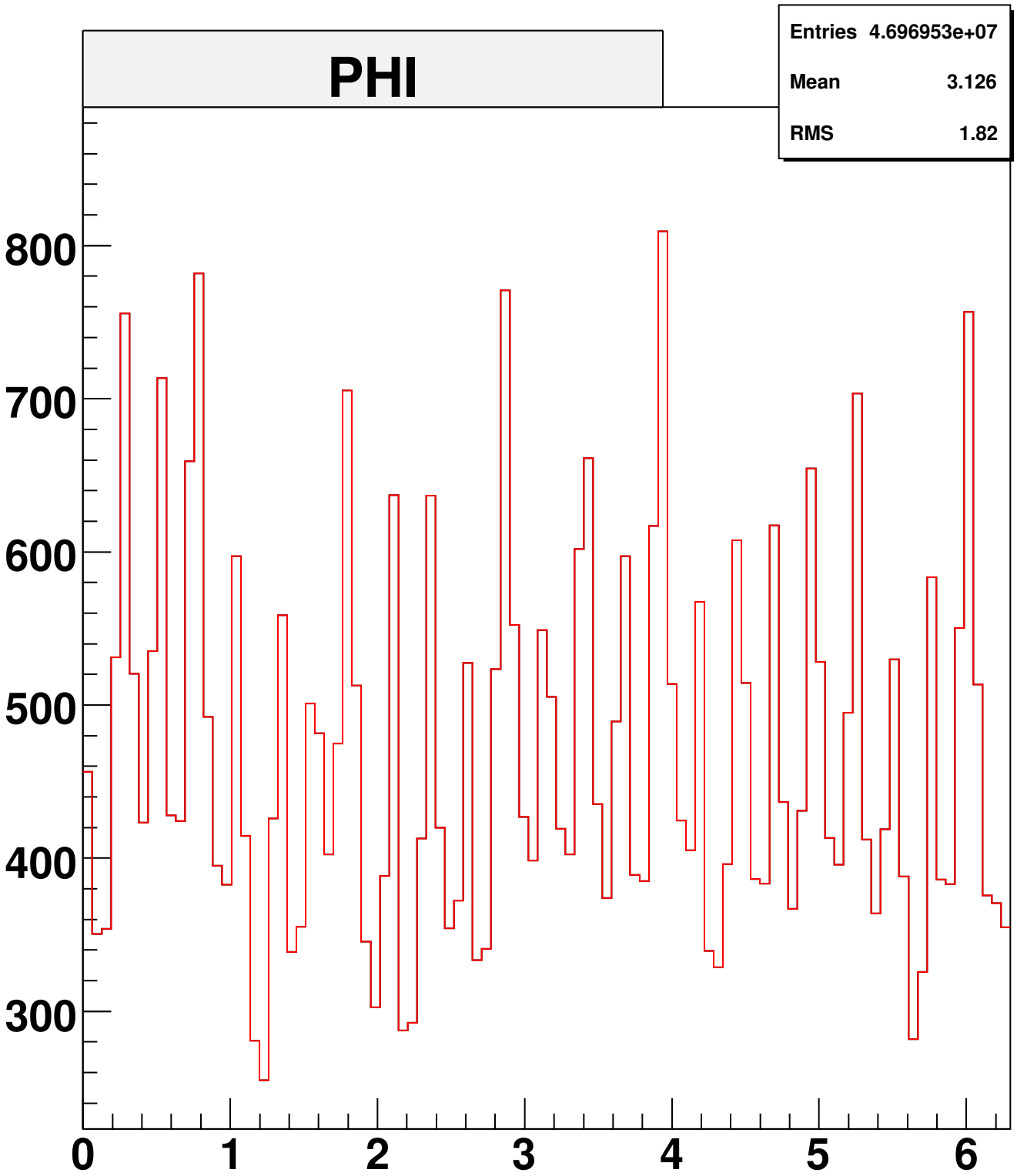


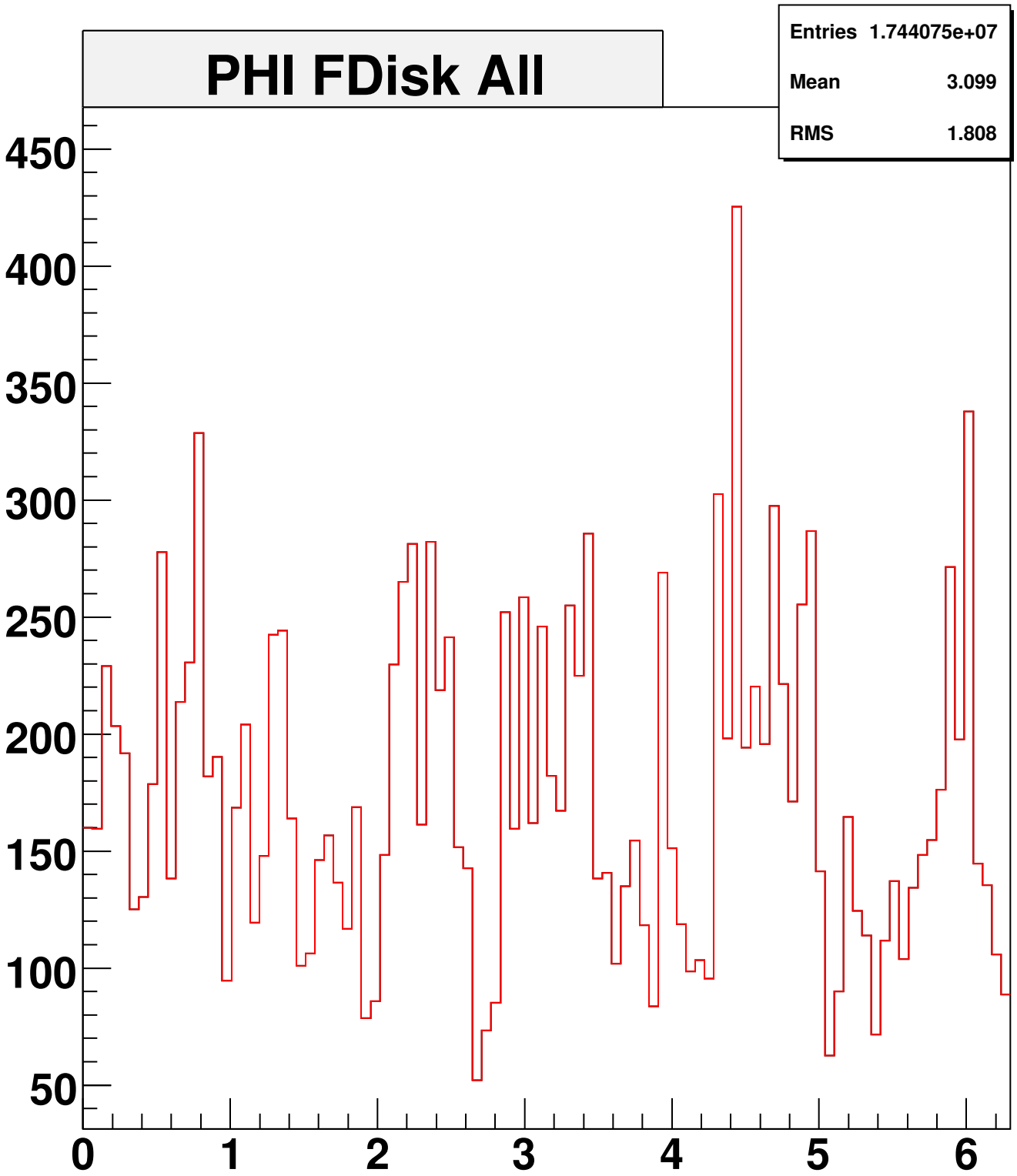


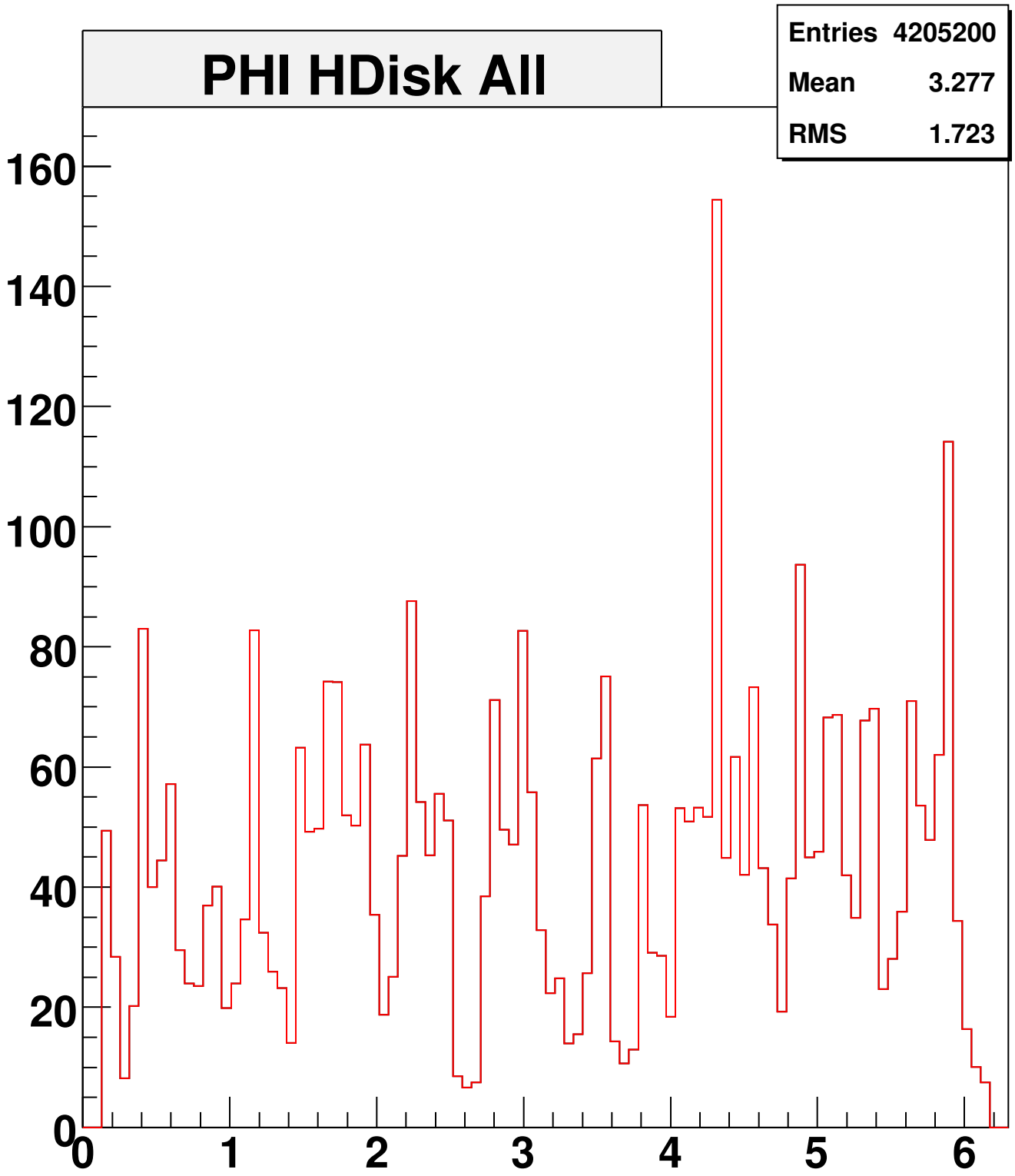


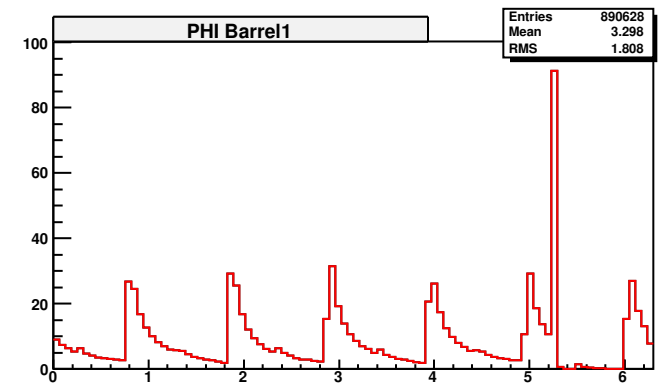


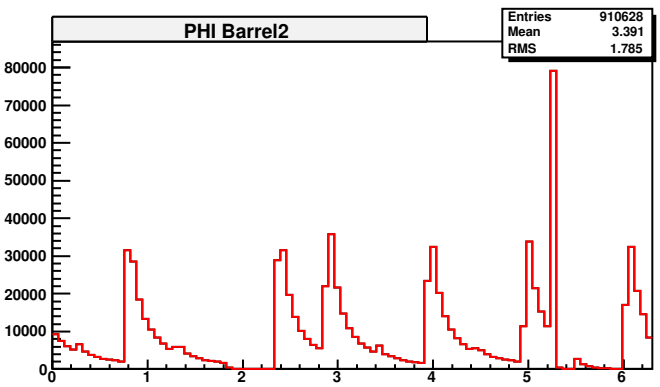
CPS Clusters (All Clusters)

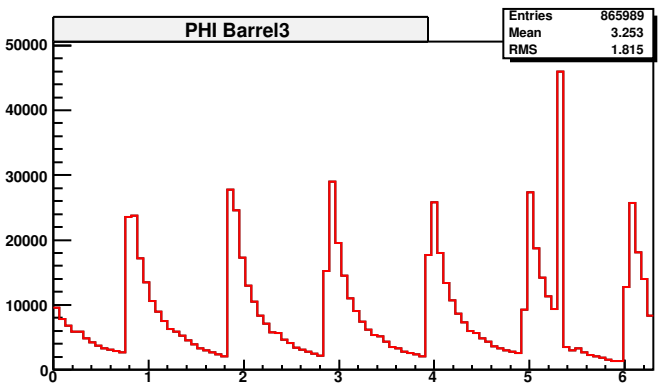

PHI
Entries 4.696953e+07
Mean 3.126
RMS 1.82
800
700
600
500
400
300
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

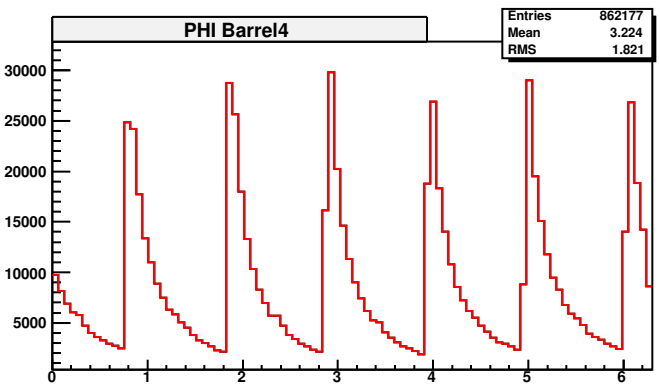

PHI FDisk All
Entries 1.744075e+07
Mean 3.099
RMS 1.808
450
400
350
300
250
200
150
100
50
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

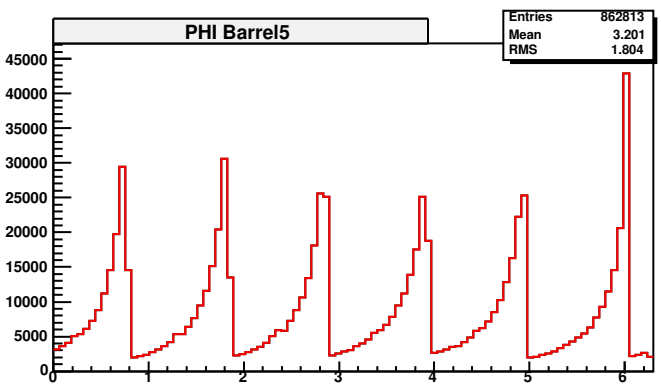

PHI HDisk All
Entries 4205200
Mean 3.277
RMS 1.723
160
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

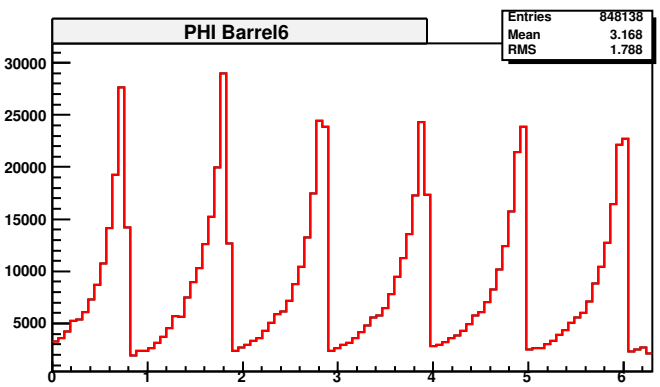


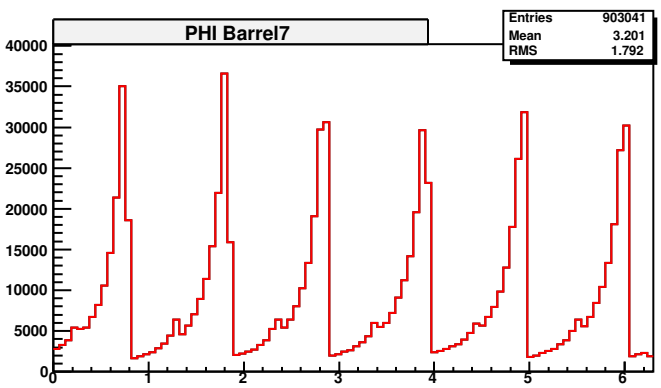


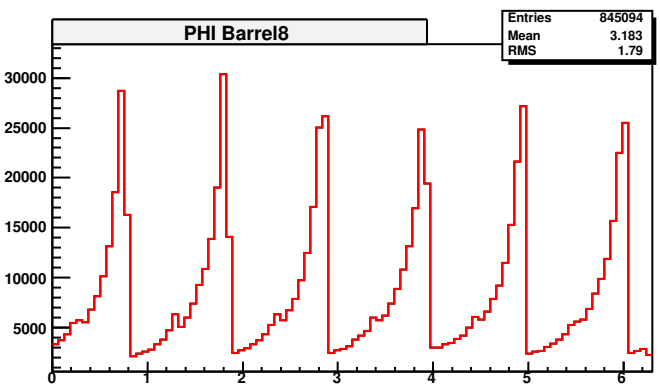




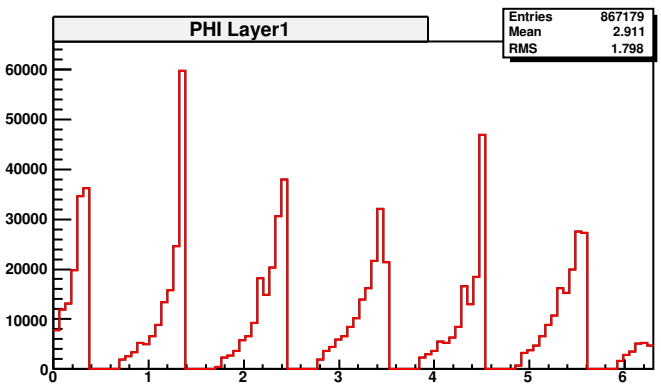


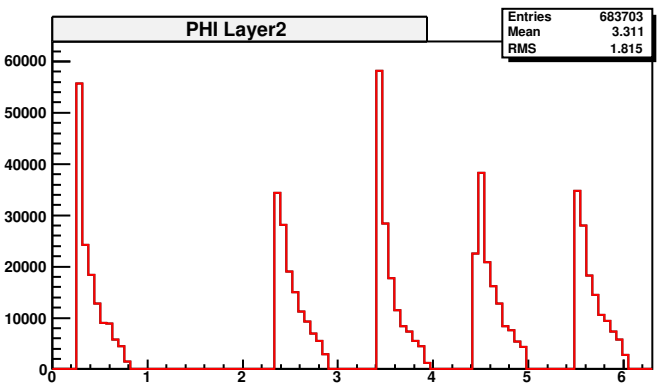


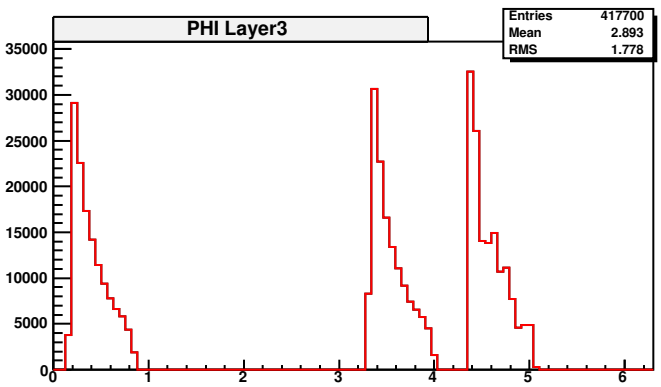


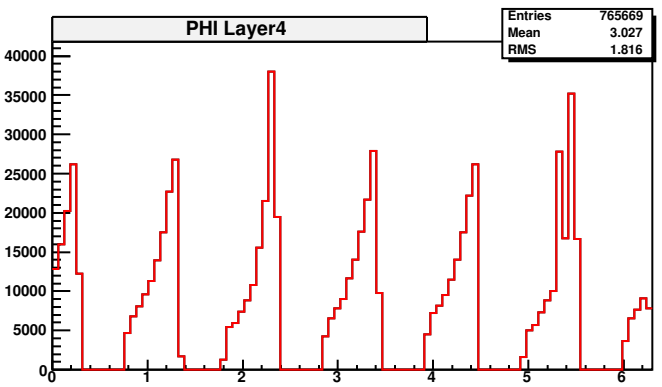


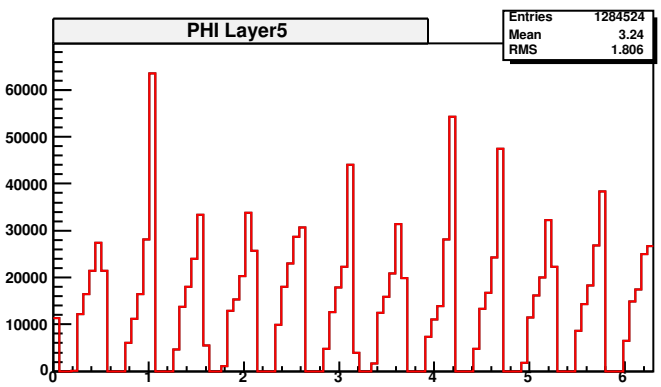
SmtClusters (ClustrLayer0)

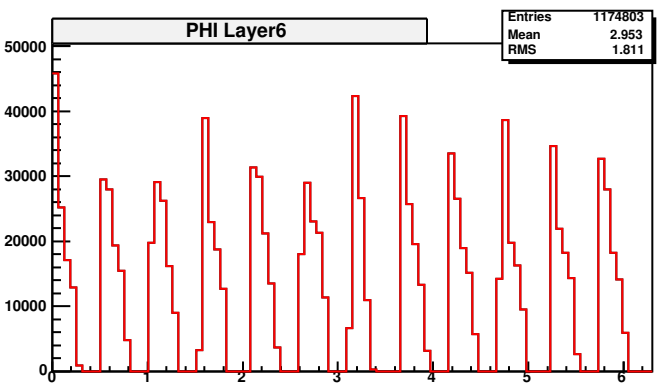


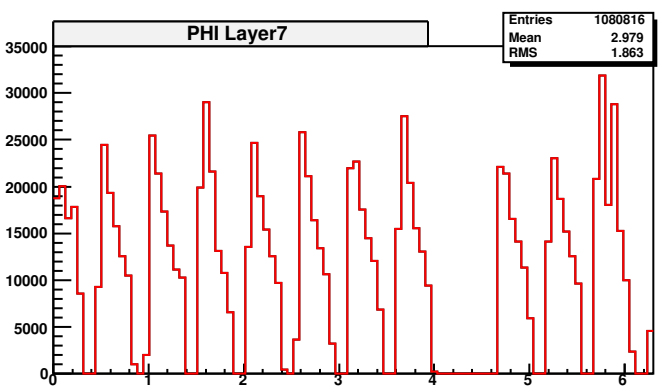


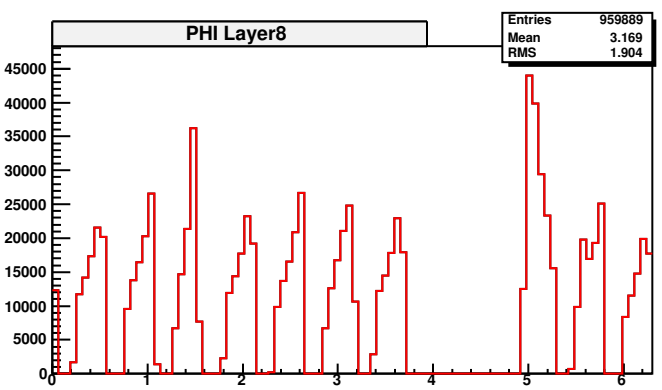




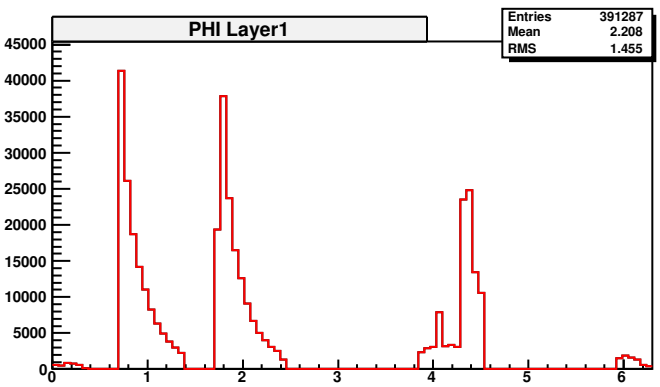


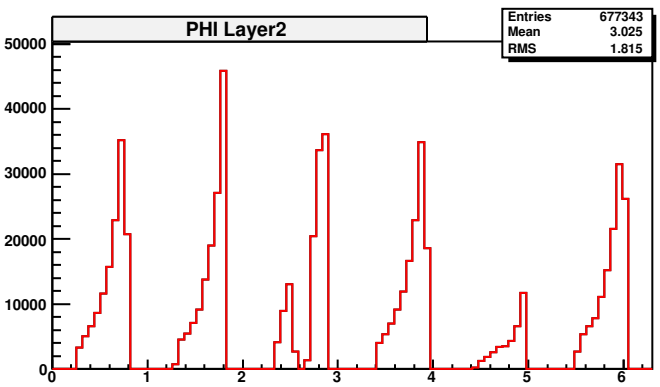


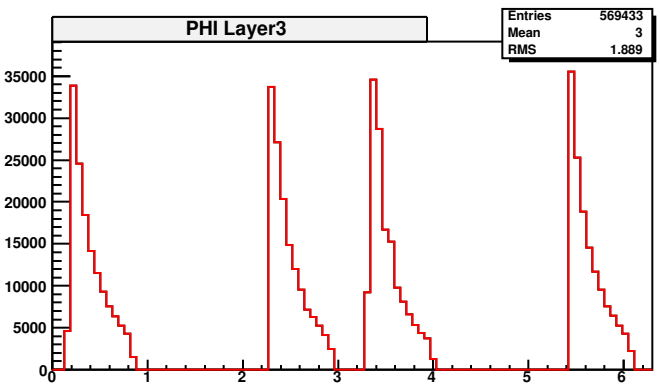


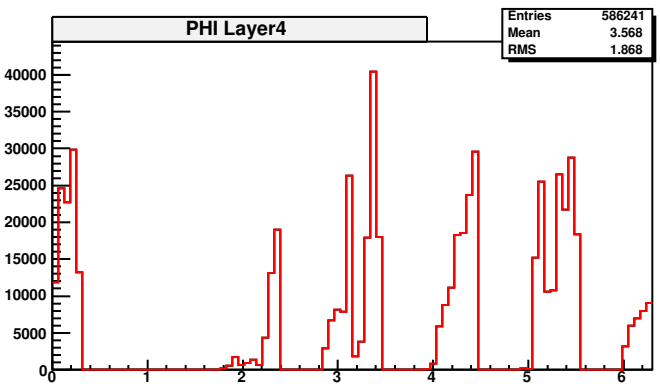


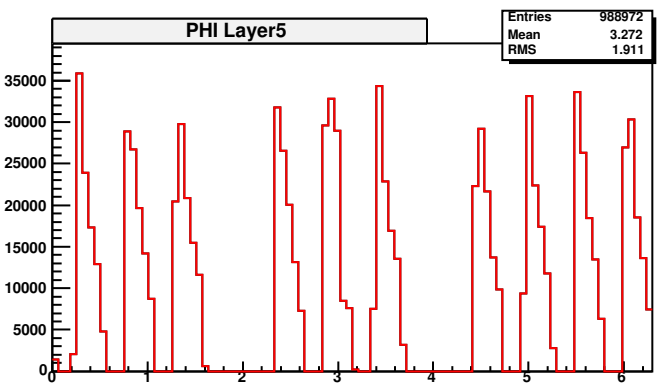
SmtClusters (ClustrBar1)

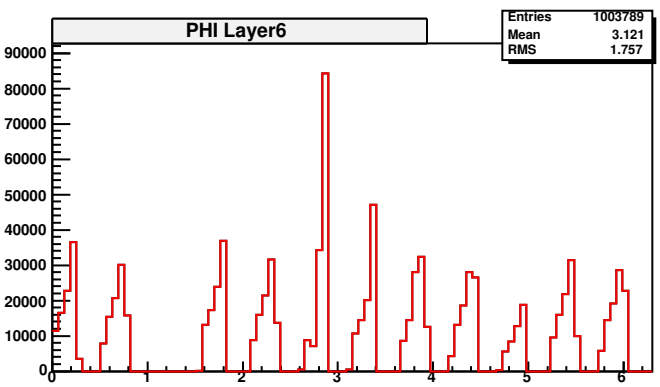


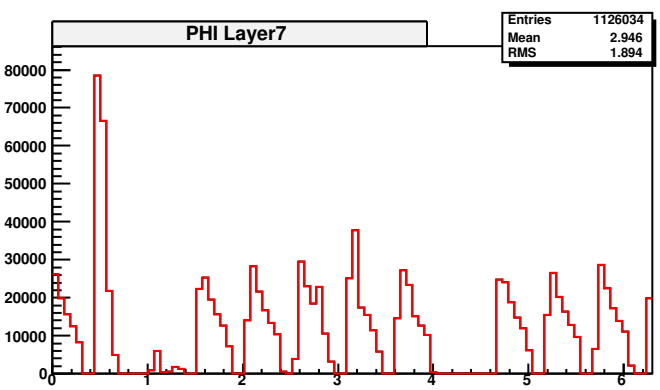


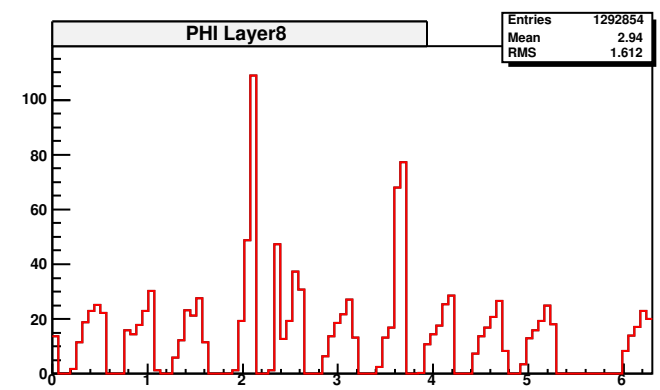




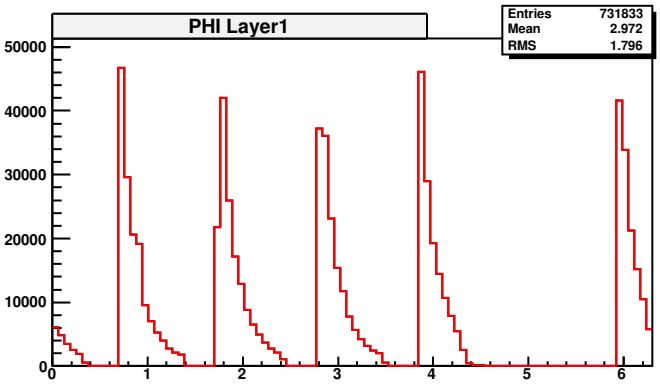


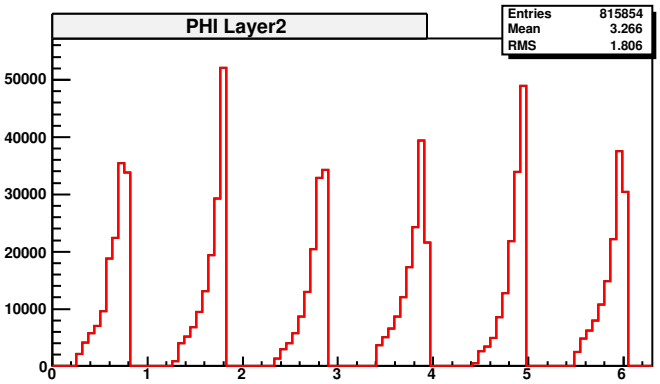


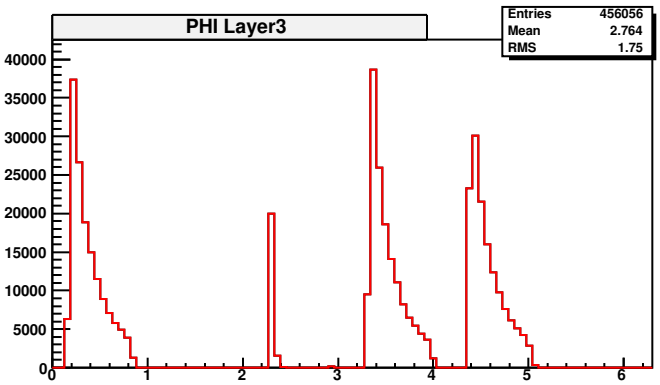


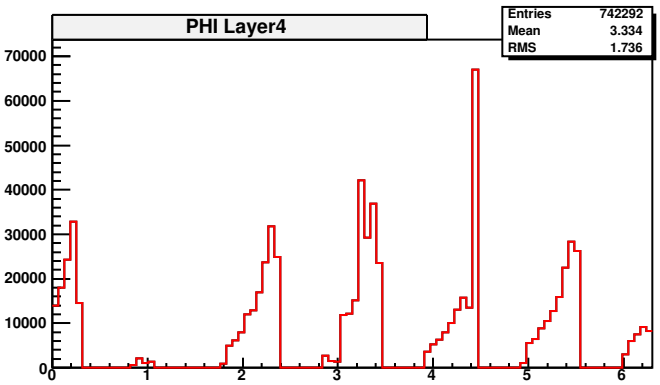


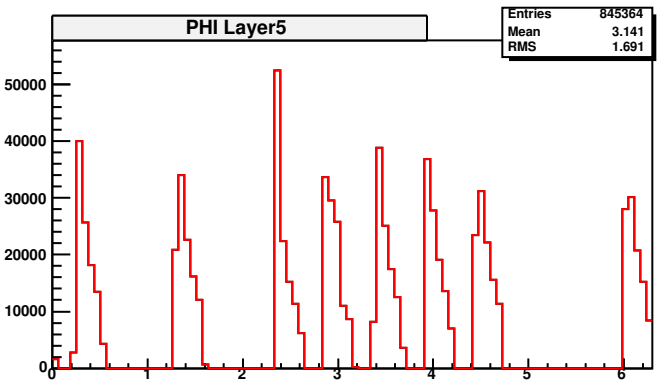
SmtClusters (ClustrBar2)

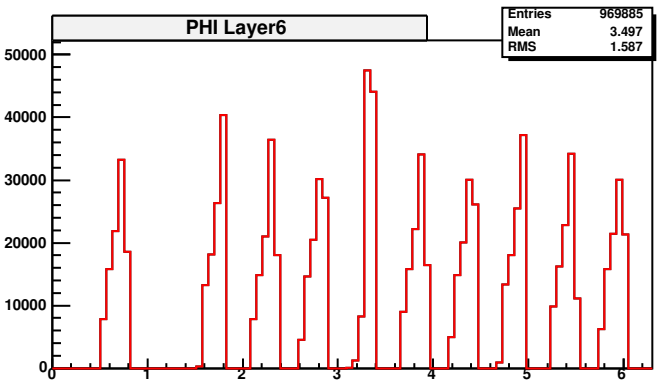


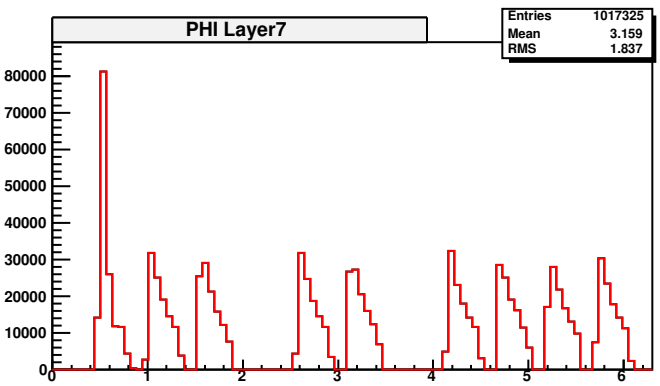


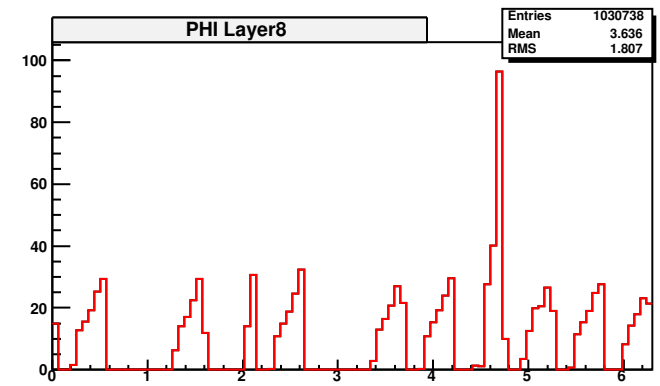




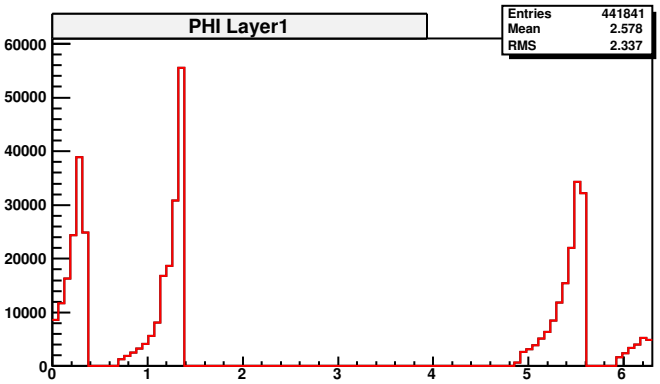


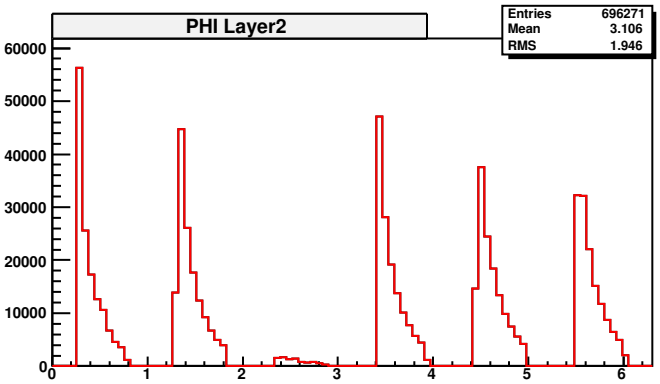


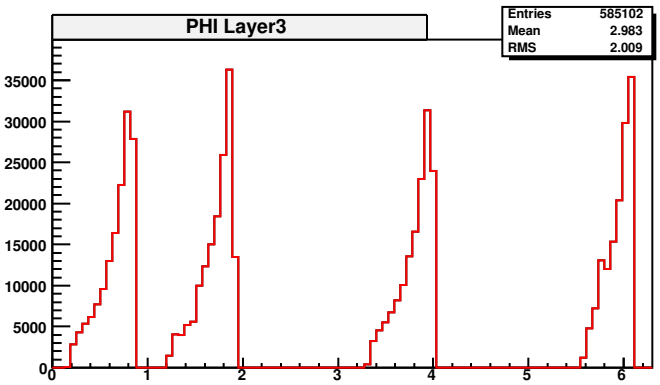


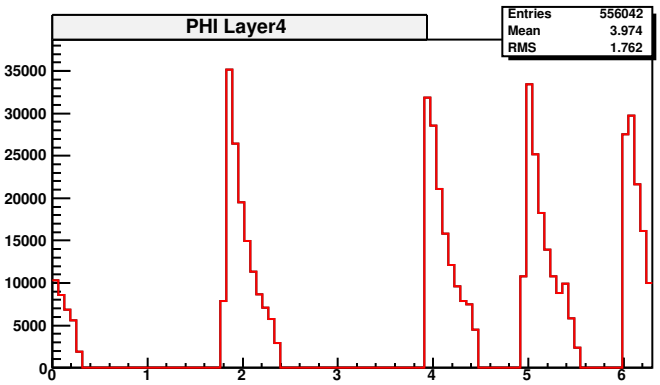


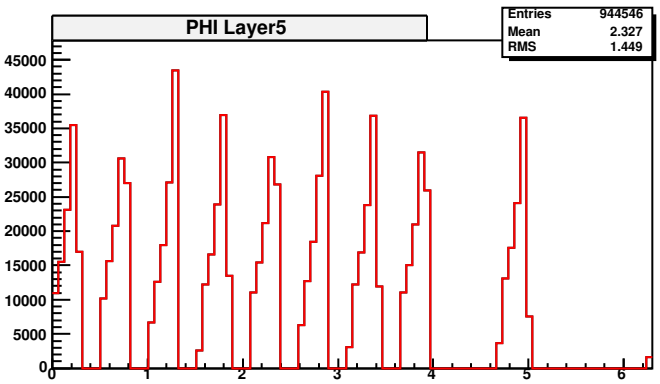
SmtClusters (ClustrBar3)

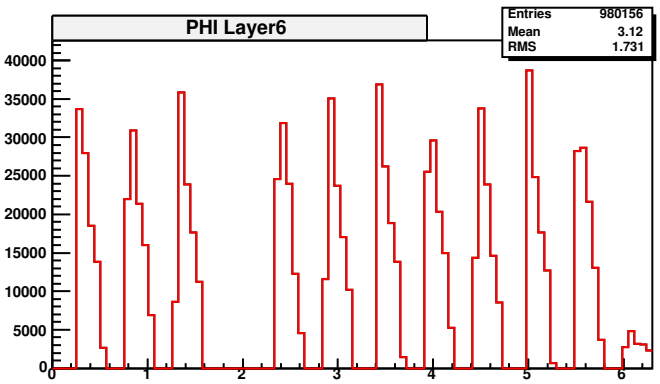


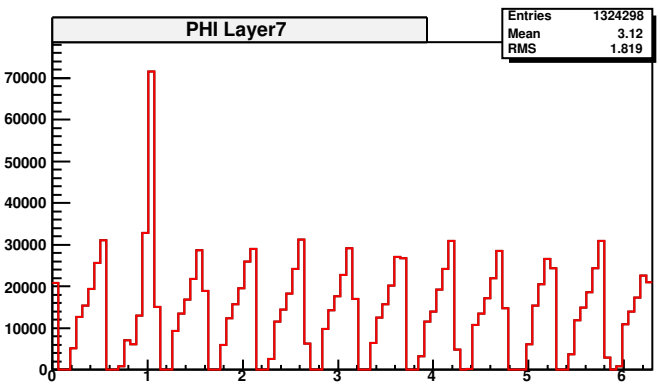


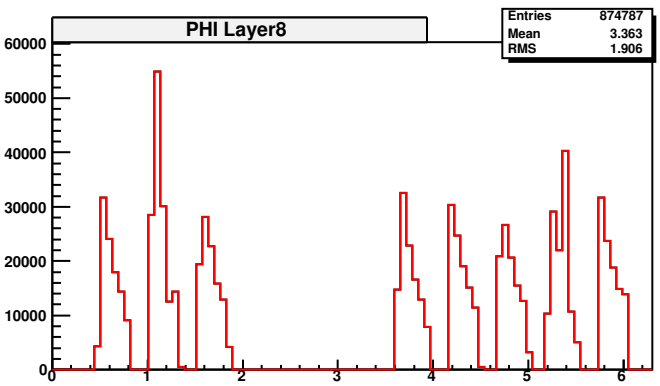




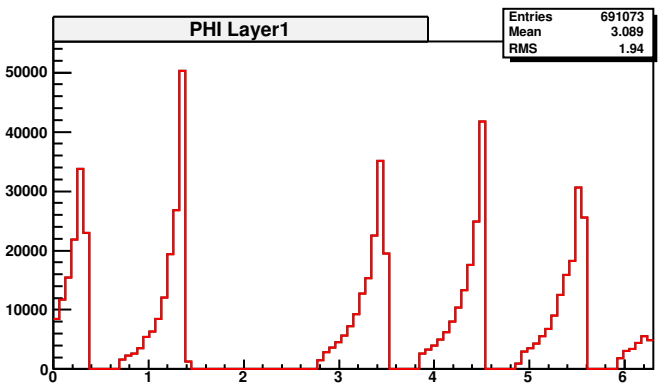


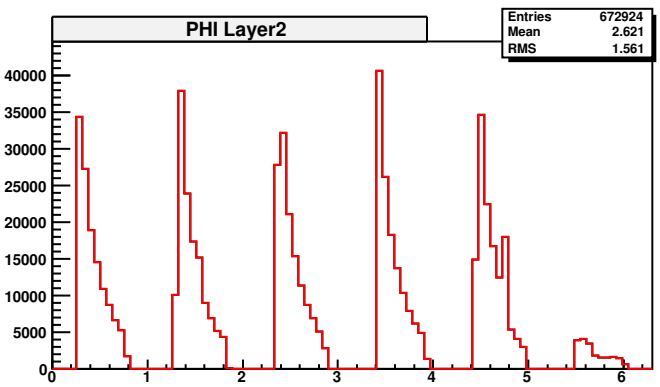


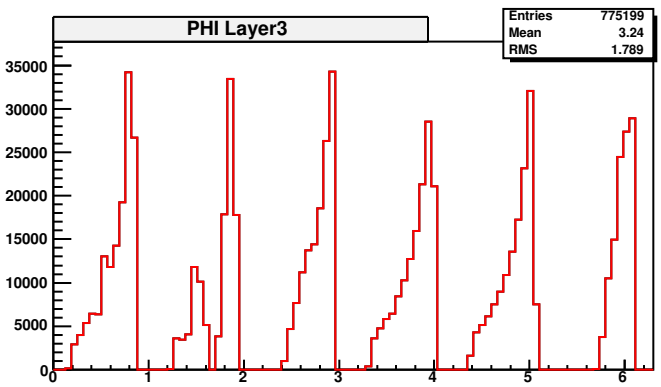


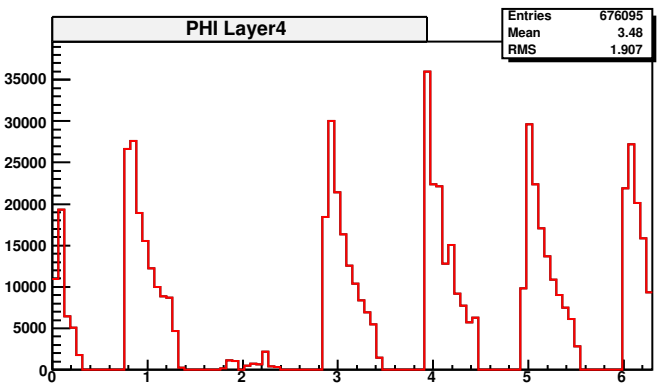


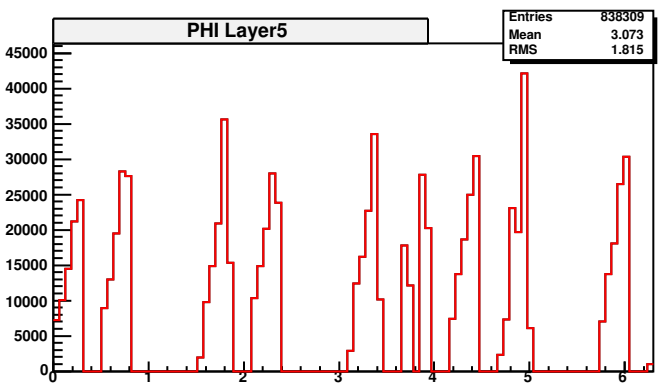
SmtClusters (ClustrBar4)

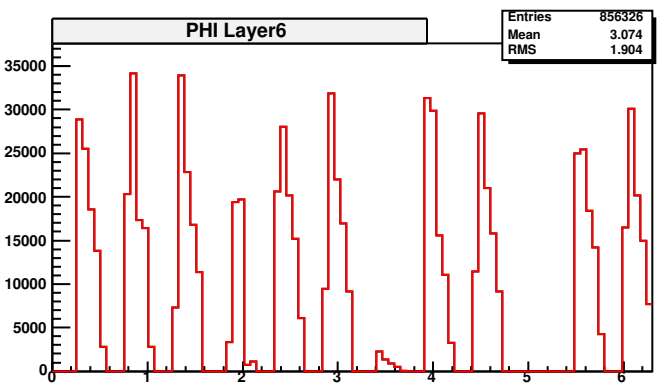


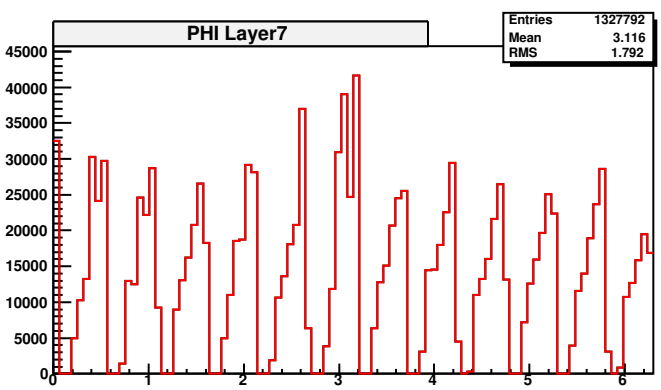


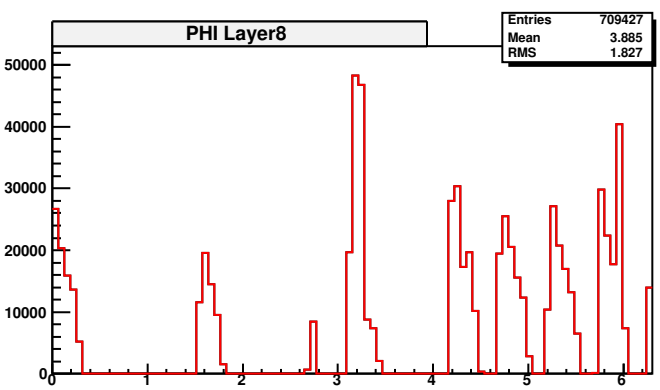




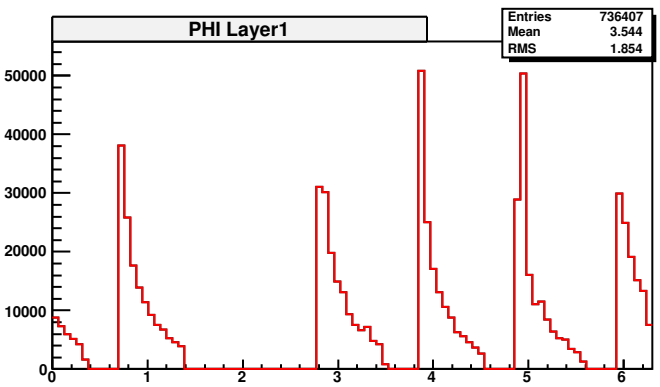


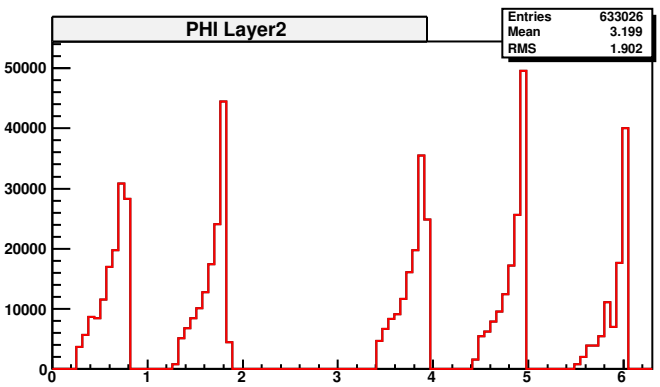


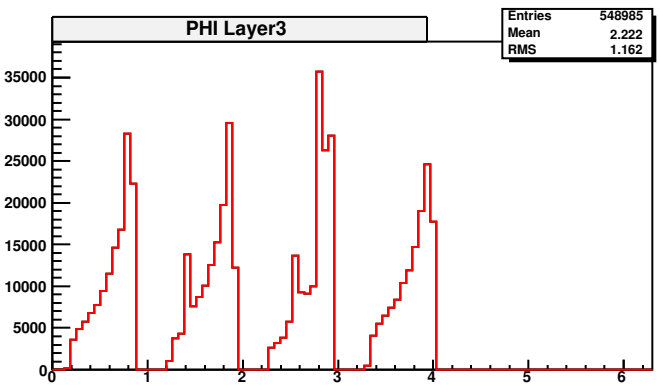


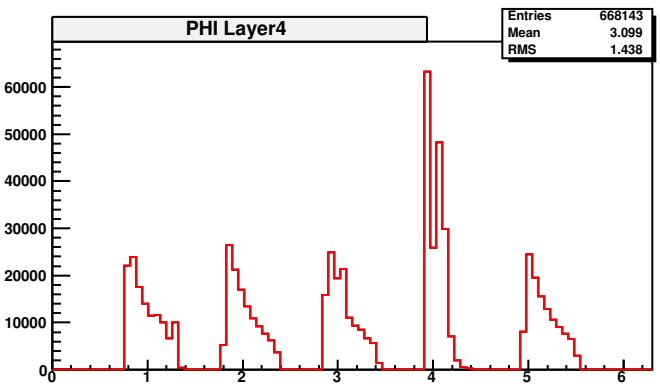


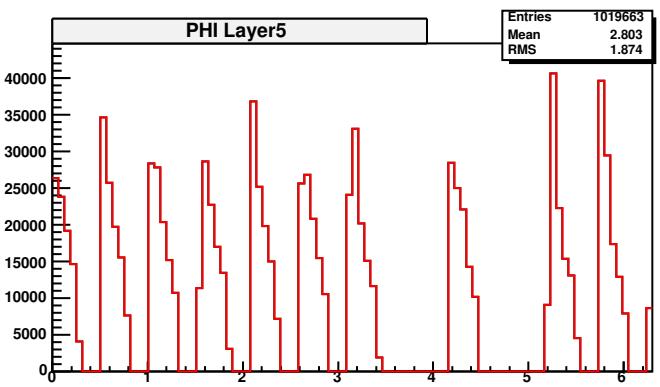
SmtClusters (ClustrBar5)

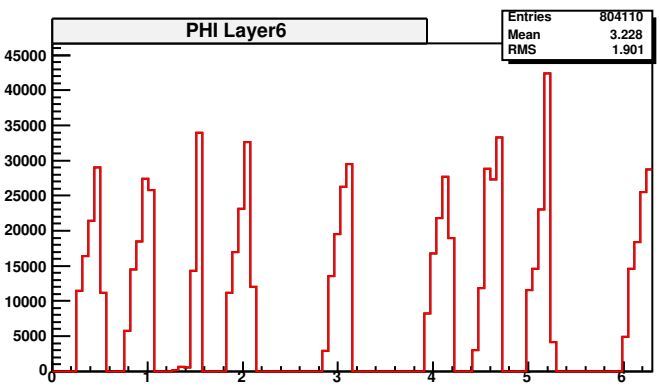


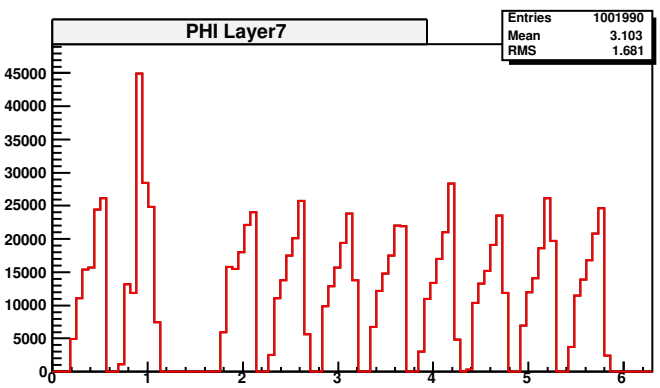


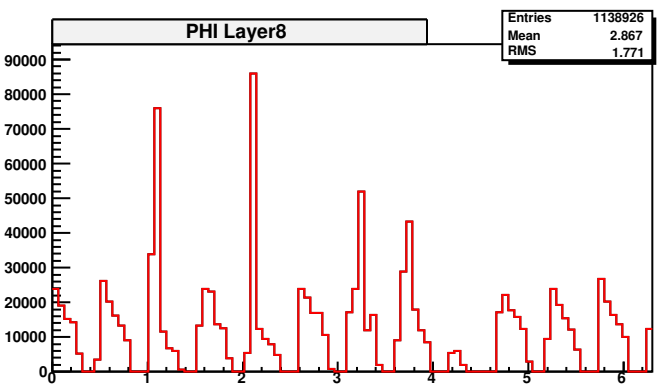




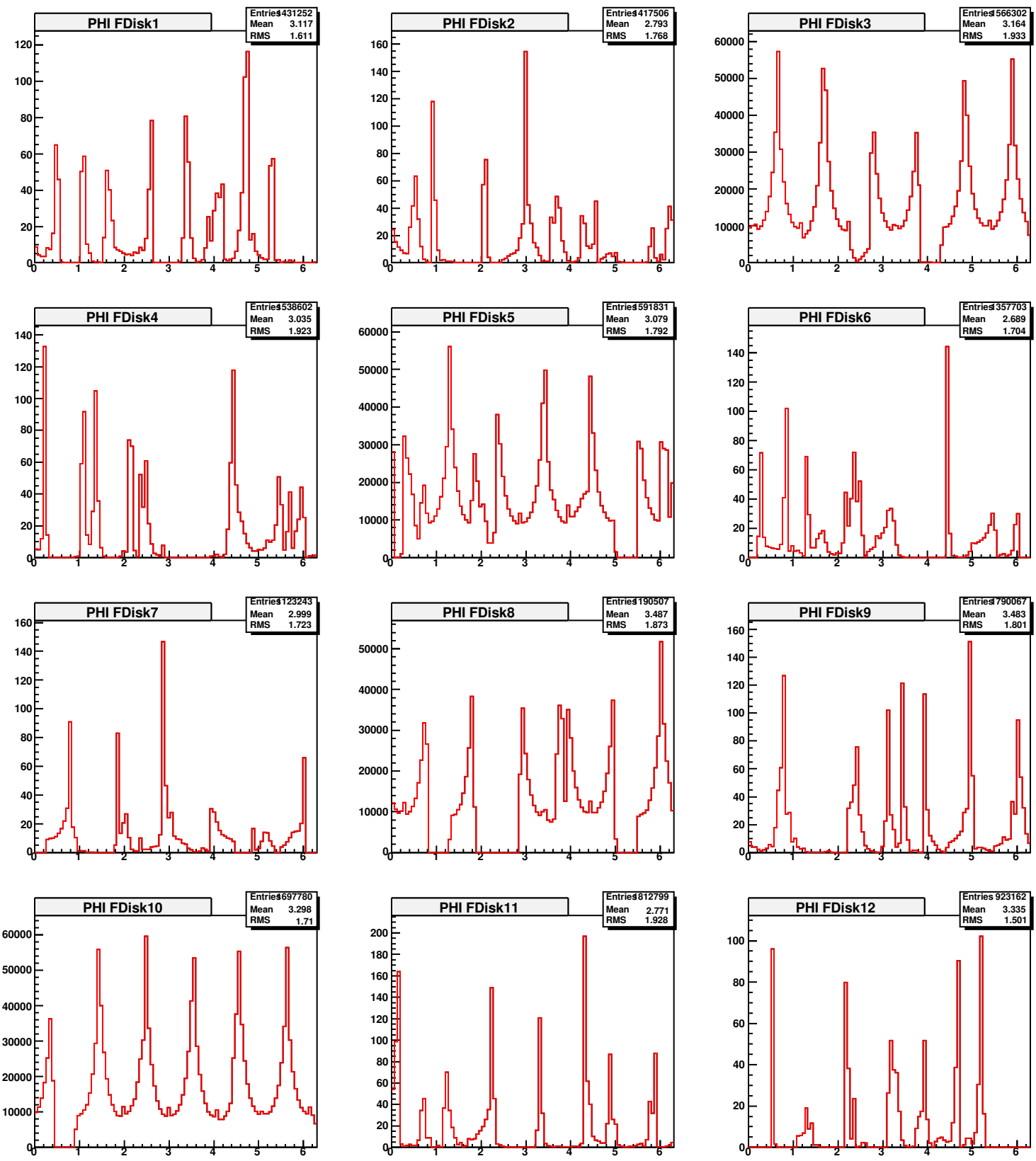




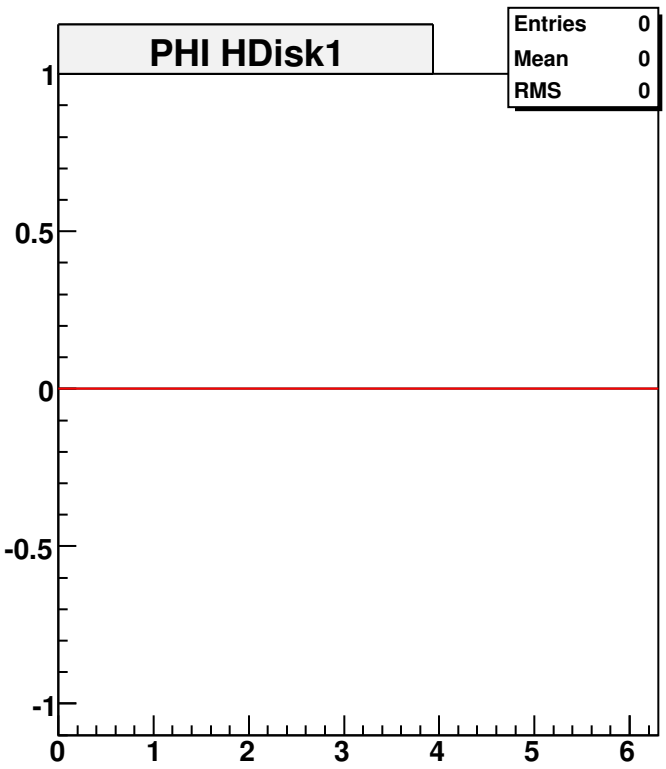


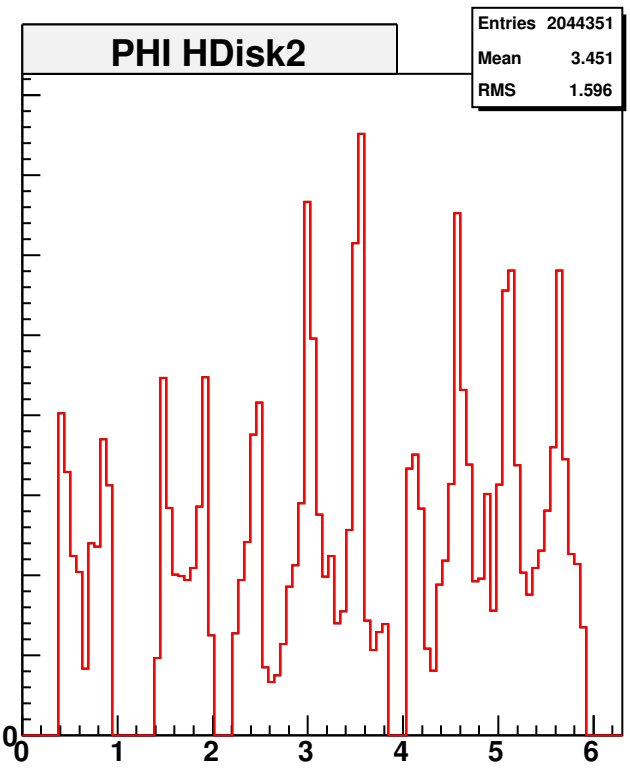


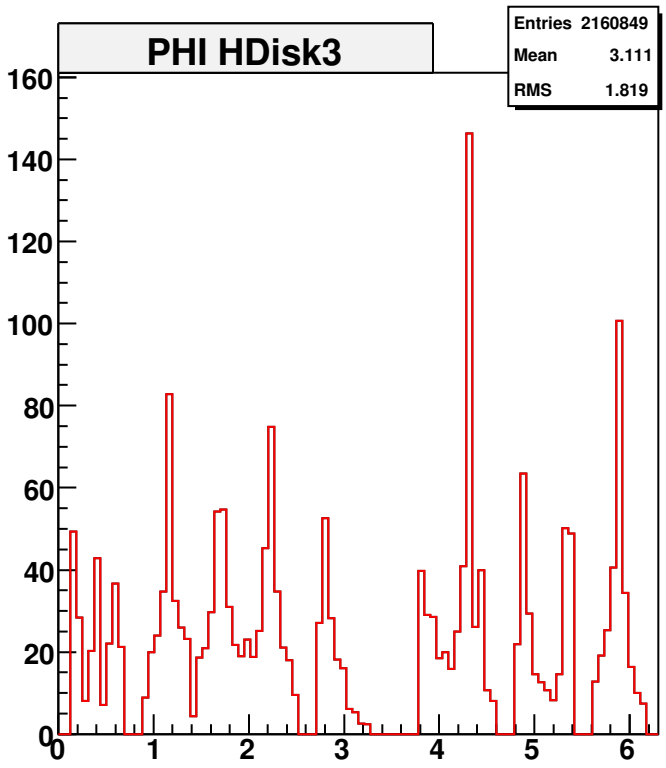
SmtClusters (ClustrBar6)

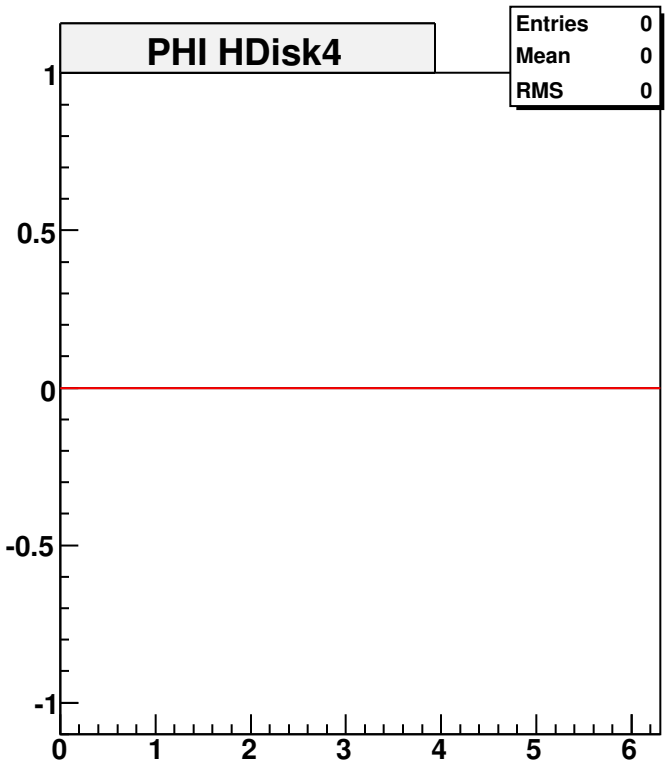


SmtClusters (FDiskClusters)

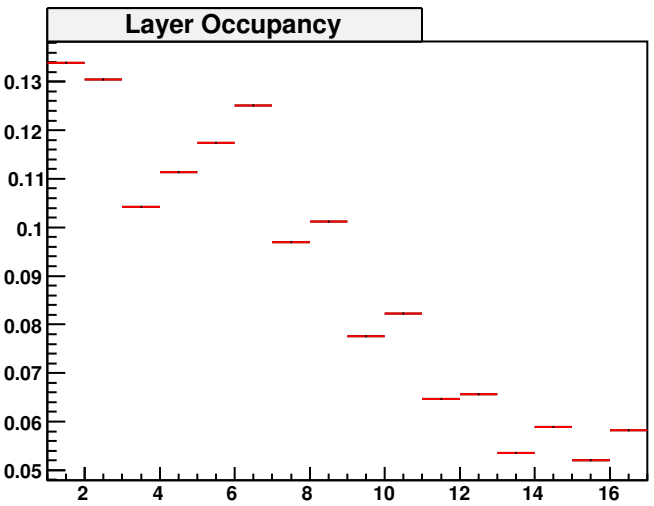


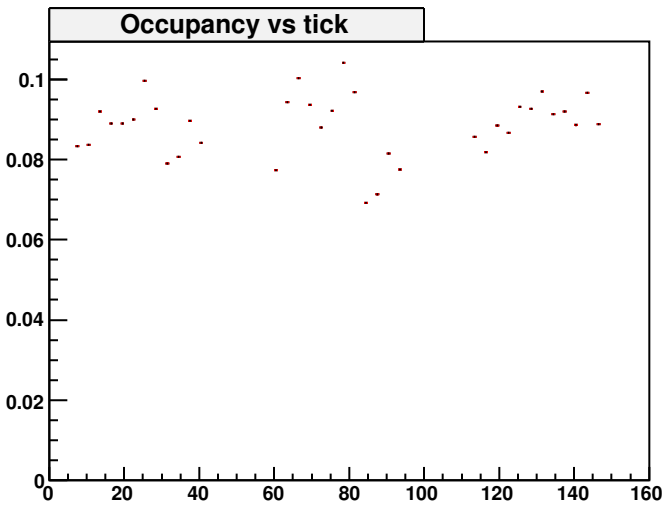


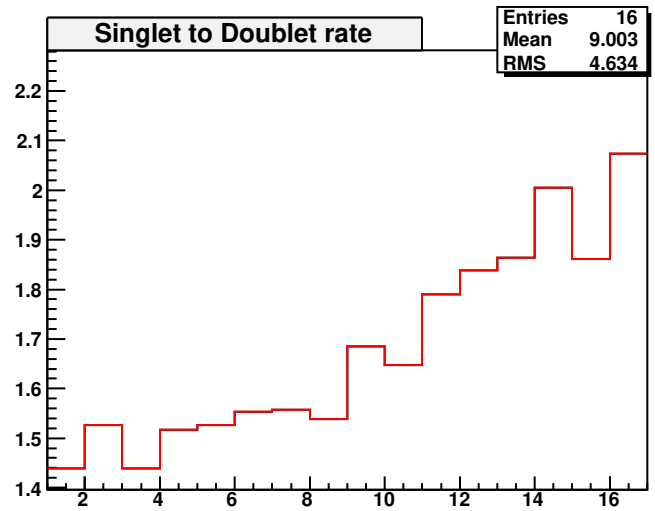


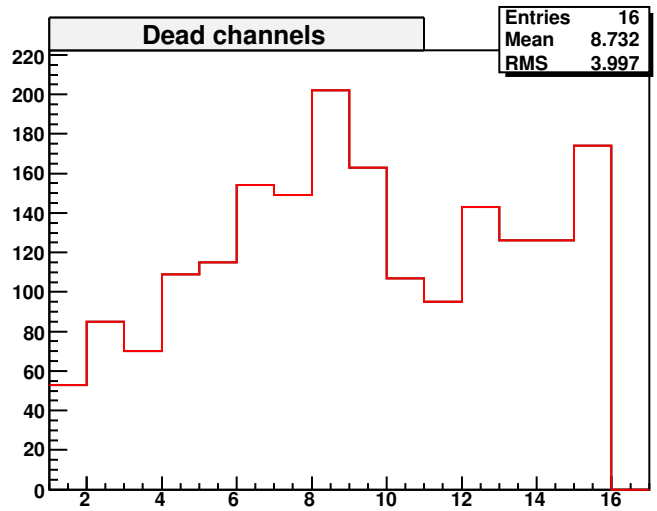


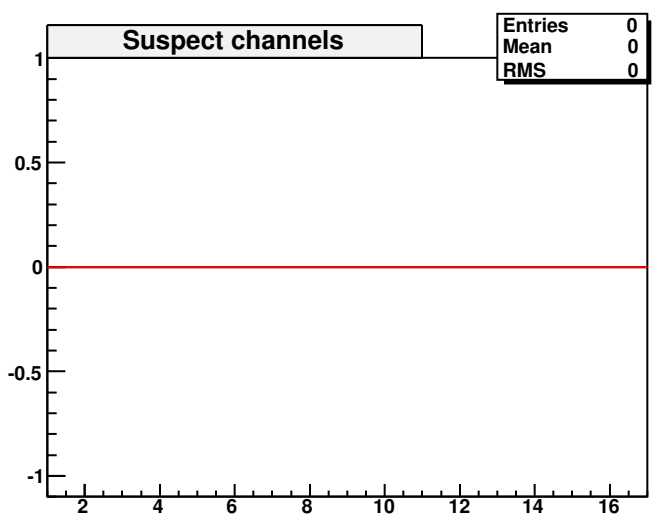
SmtClusters (HDiskClusters)

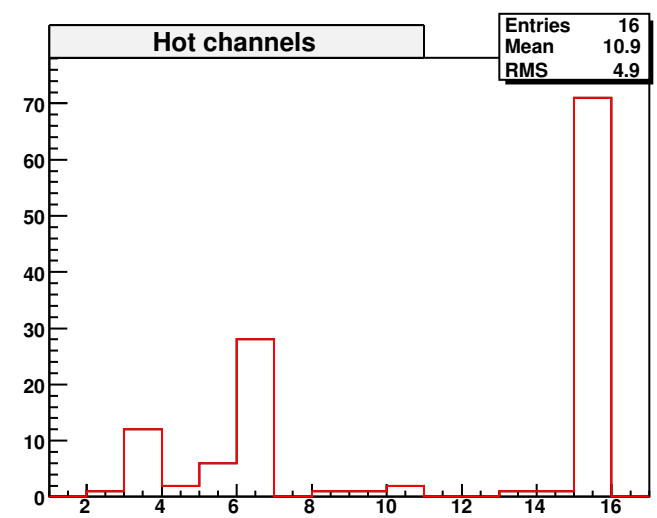




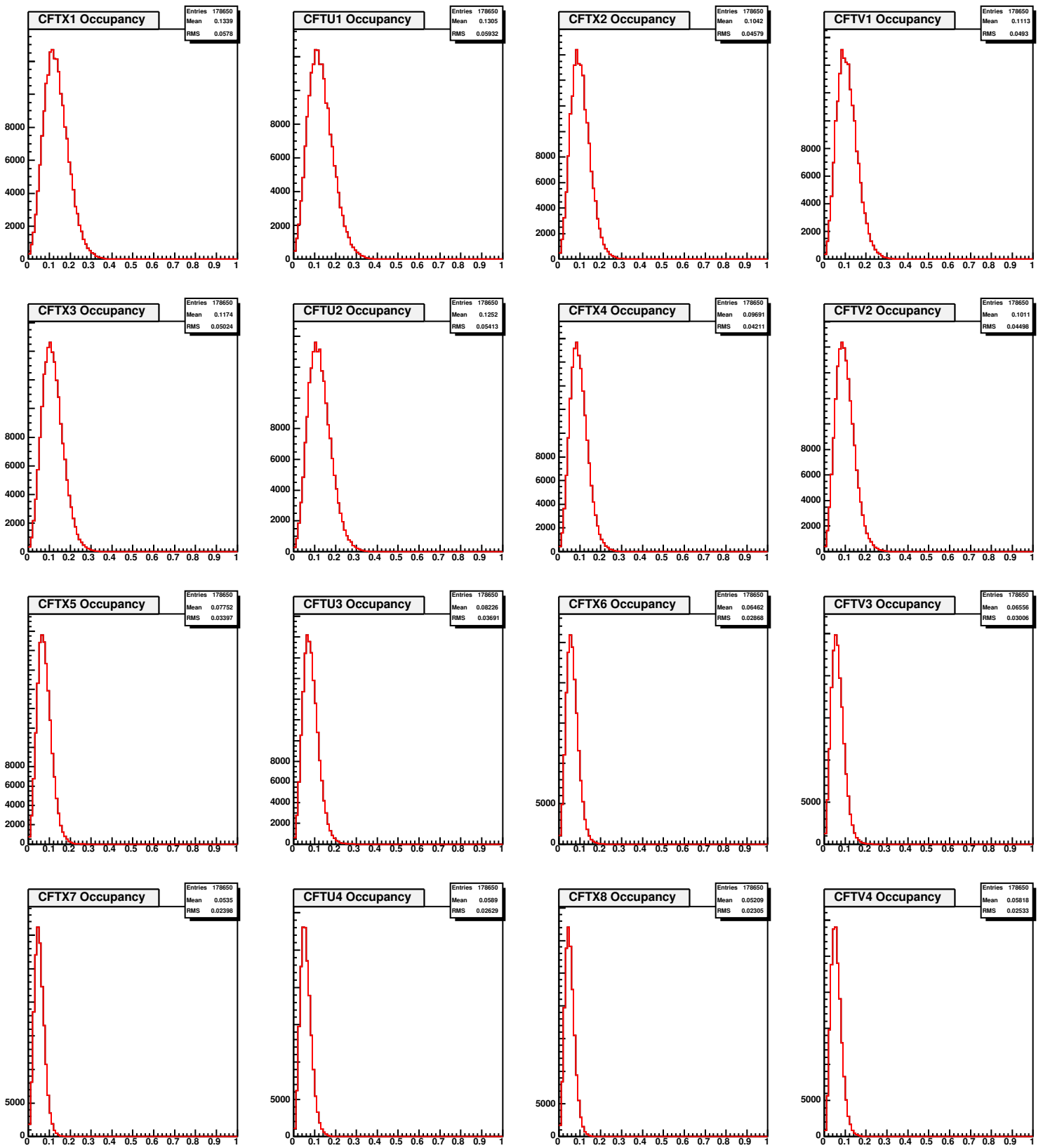




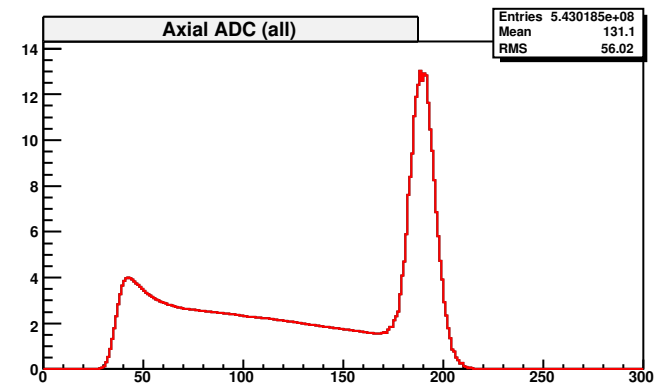


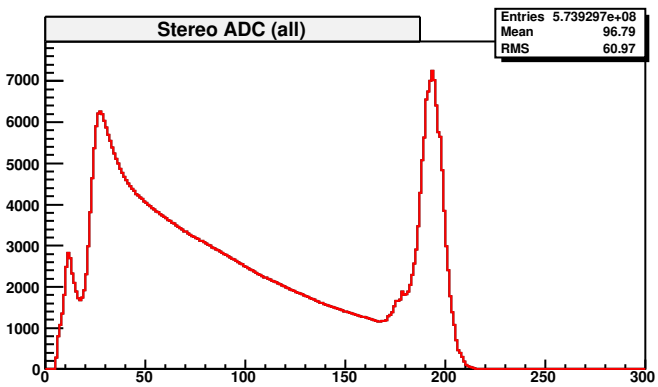


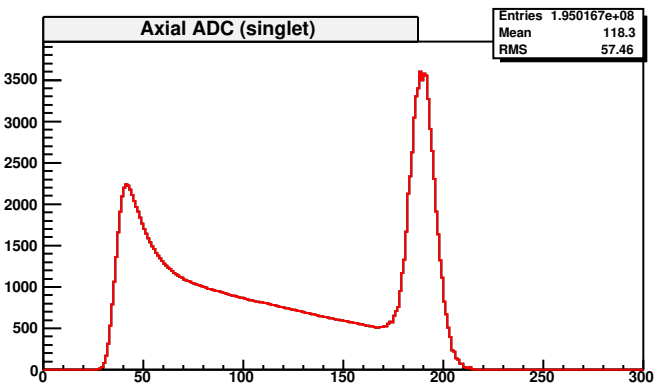
CFT Summary (All Clusters)

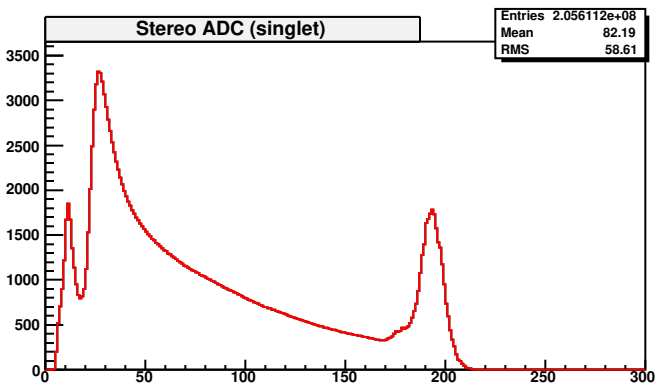


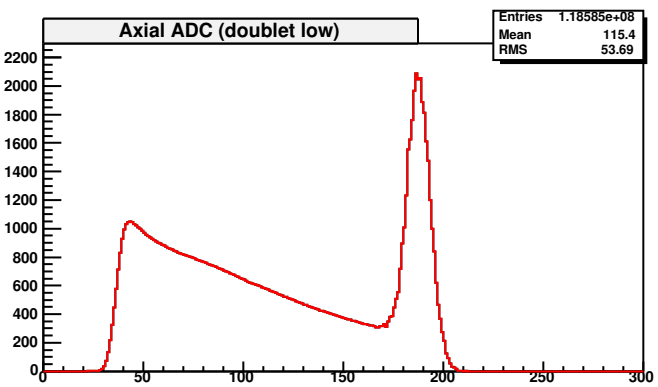
CFT Occupancy (All Clusters)

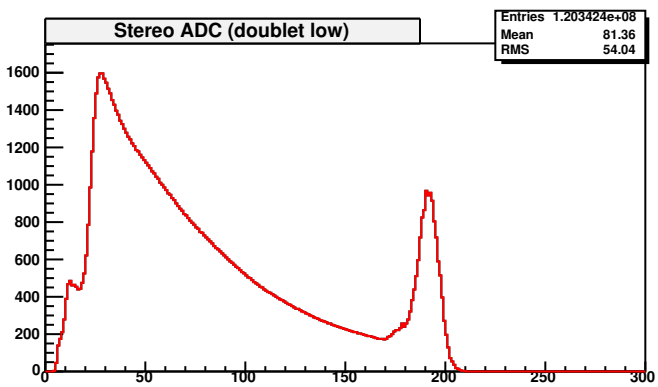


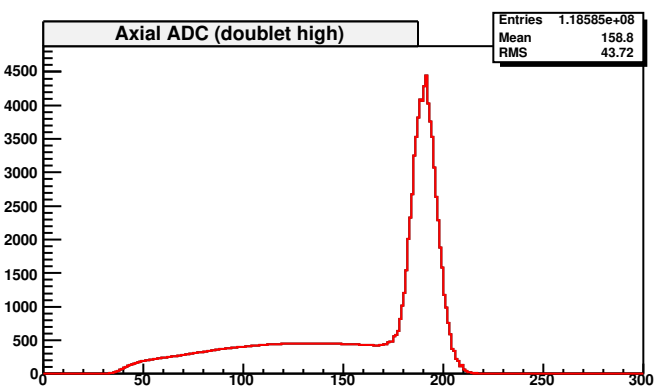


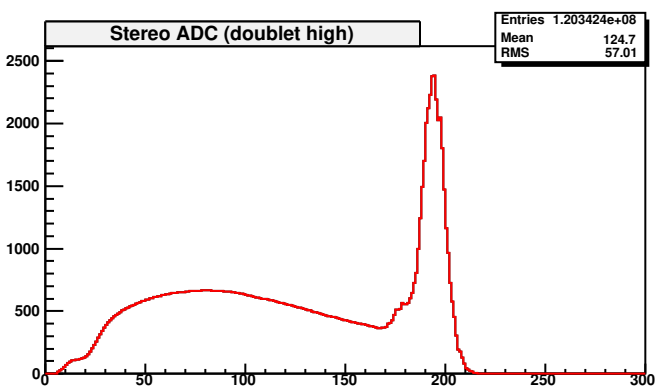




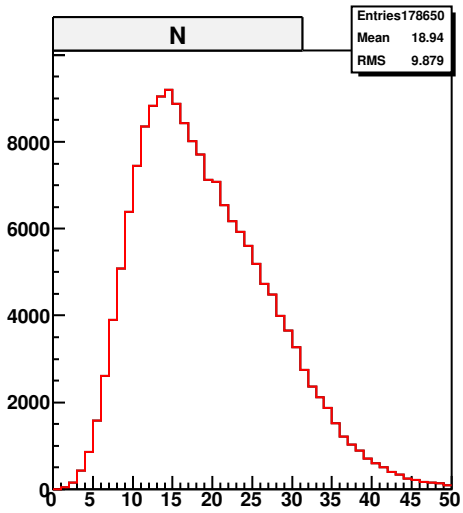


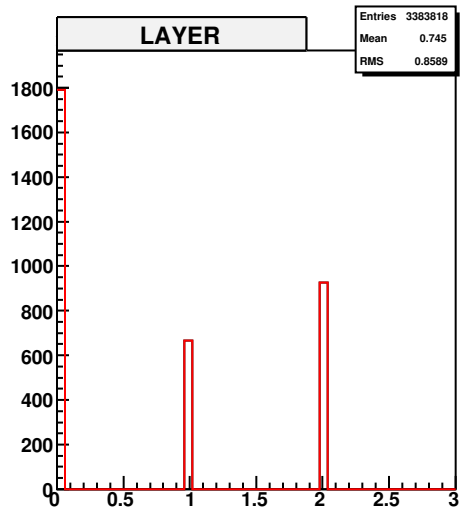


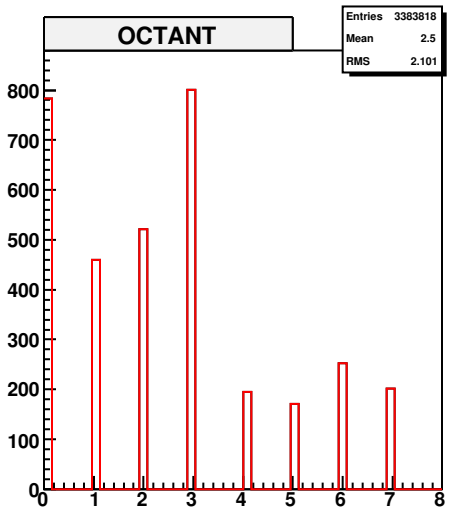


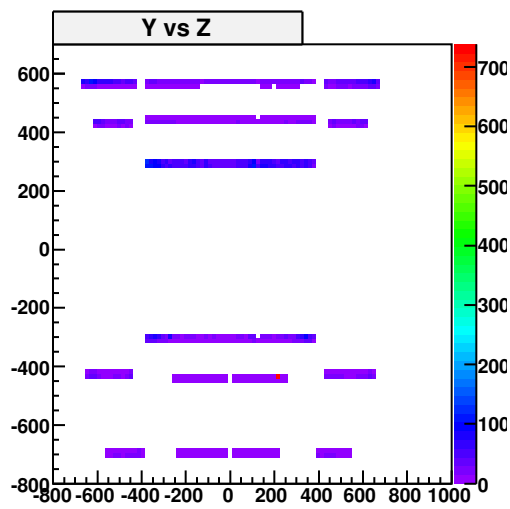


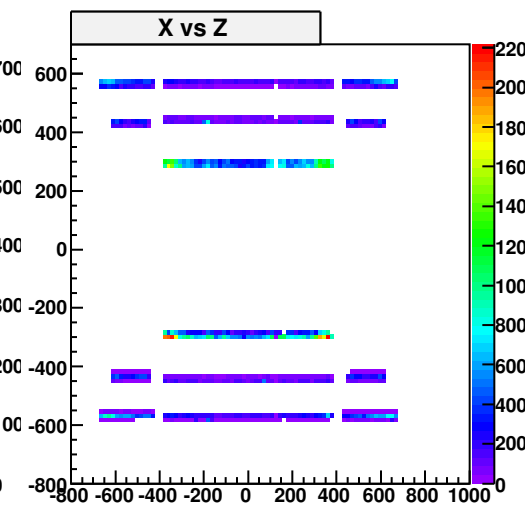
CFT ADC Summary (All Clusters)

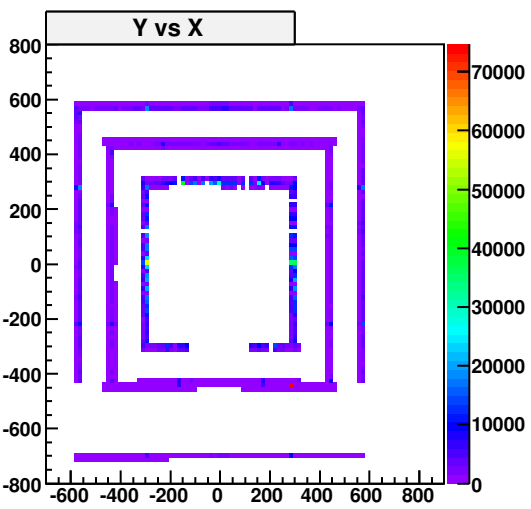

N
Entries 178650
Mean 18.94
RMS 9.879

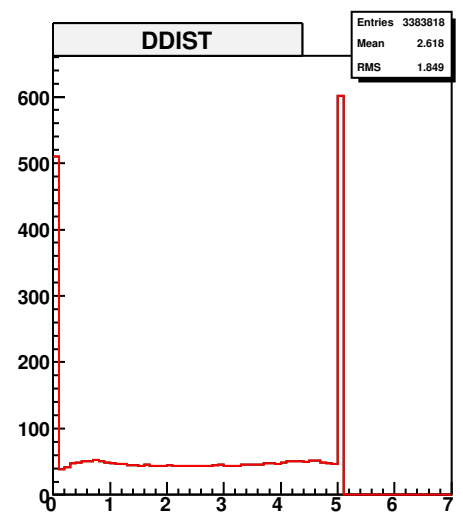

LAYER
Entries 3383818
Mean 0.745
RMS 0.8589

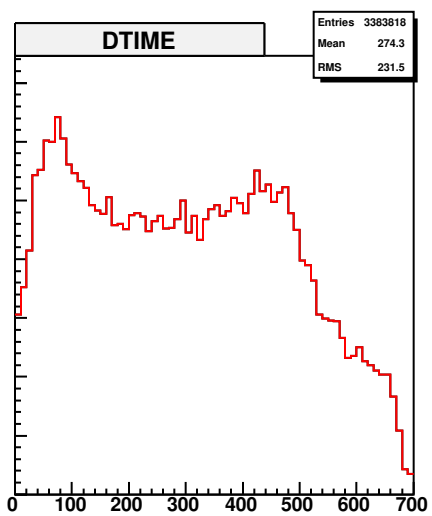

OCTANT
Entries 3383818
Mean 2.5
RMS 2.101


Y vs Z

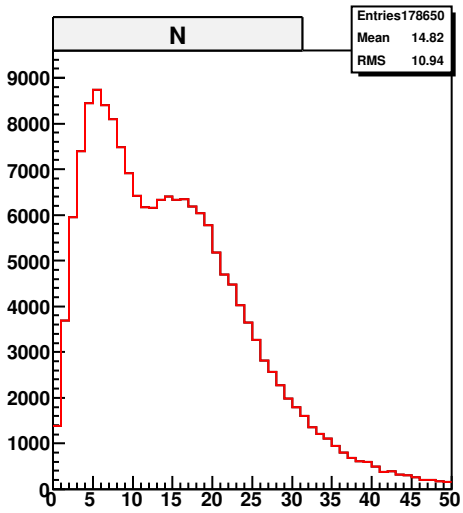

X vs Z

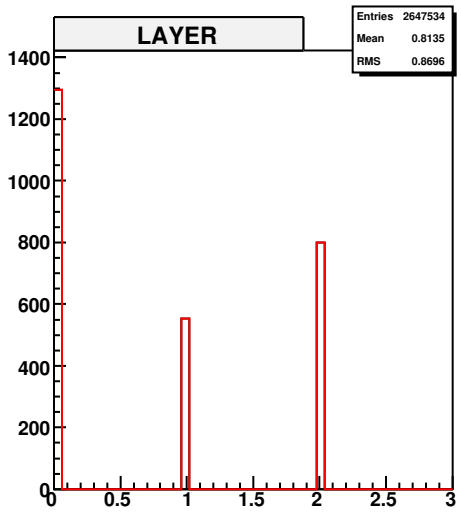

Y vs X

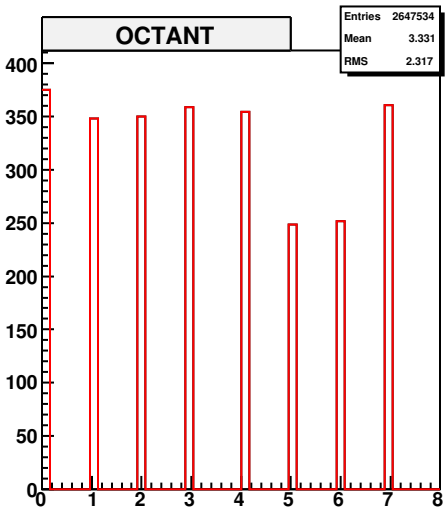

DDIST
Entries 3383818
Mean 2.618
RMS 1.849

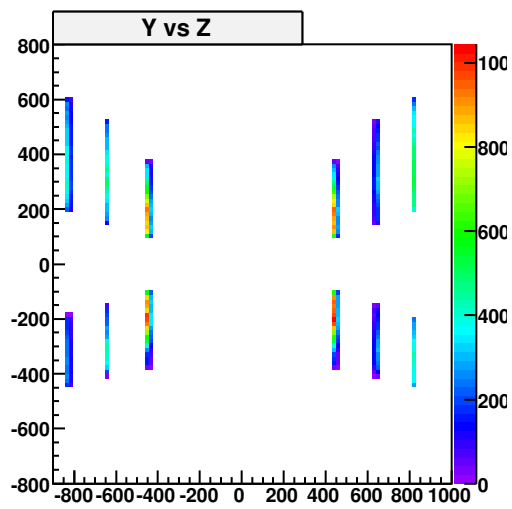

DTIME
Entries 3383818
Mean 274.3
RMS 231.5

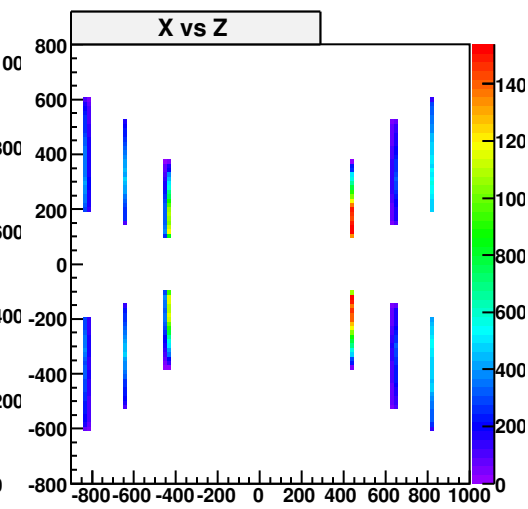
MuonPDT (All)

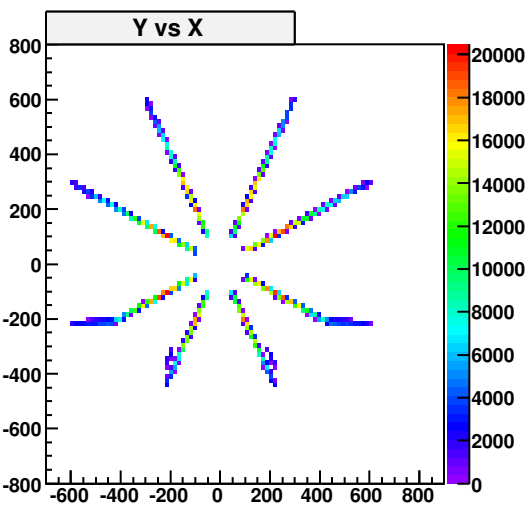

N
Entries 178650
Mean 14.82
RMS 10.94

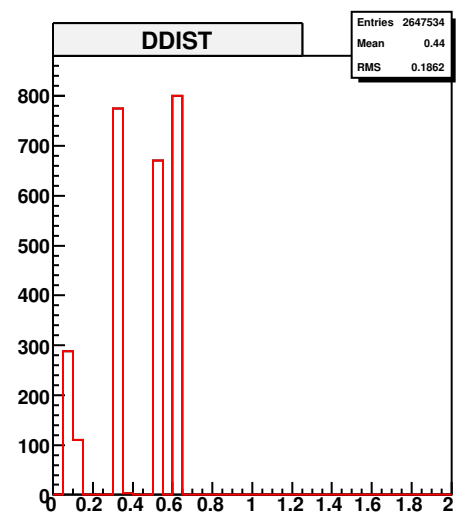

LAYER
Entries 2647534
Mean 0.8135
RMS 0.8696


OCTANT
Entries 2647534
Mean 3.331
RMS 2.317


Y vs Z


X vs Z


Y vs X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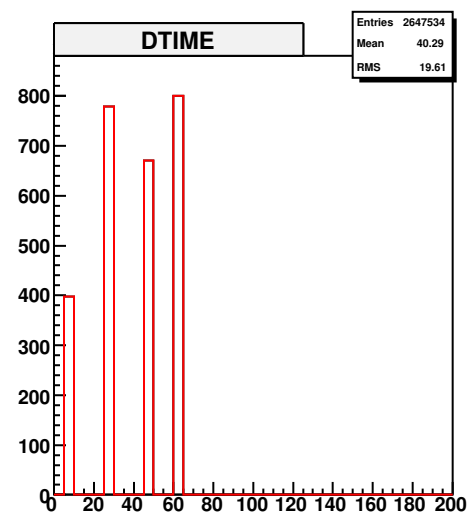
Mean 0.44
RMS 0.1862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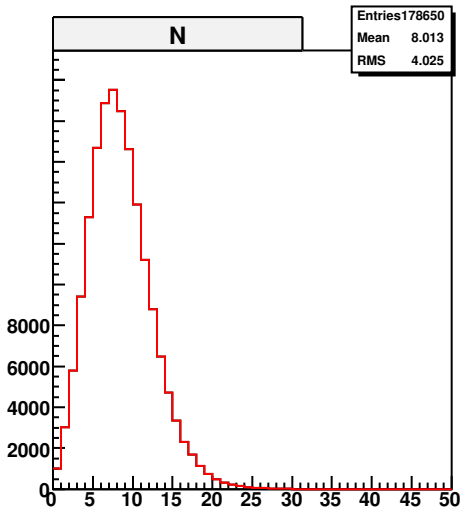
Entries 2647534
Mean 40.29
RMS 19.61

MuonMDT (All)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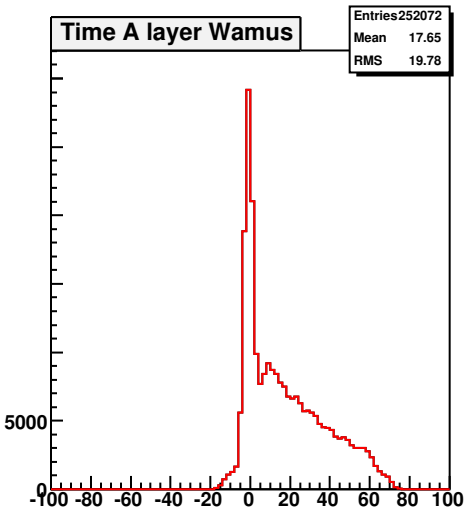
Mean 8.013
RMS 4.025


Time A layer Wamus
Entries252072
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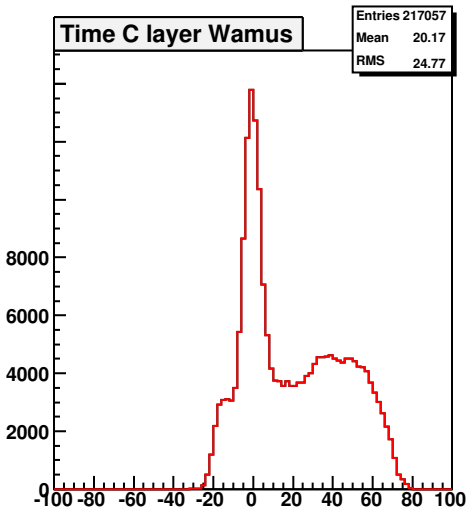
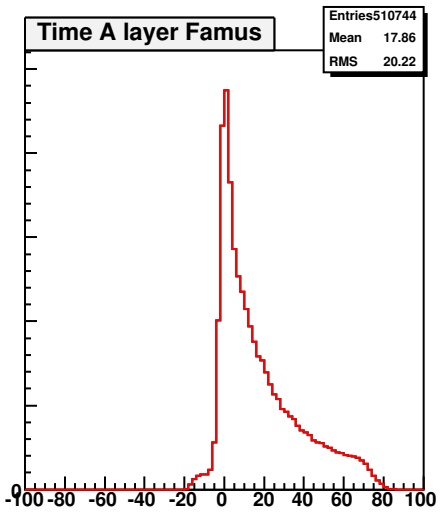
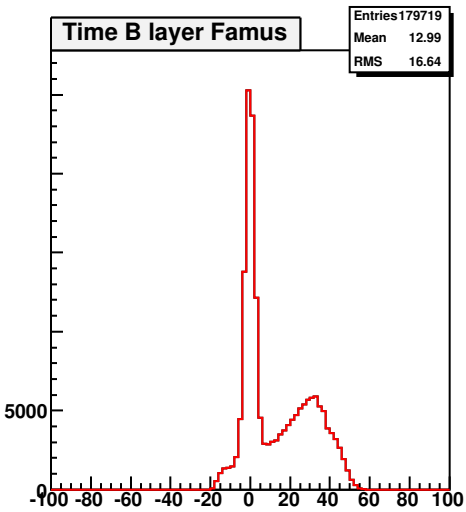
RMS 19.78


Time C layer Wamus
Entries 217057
Mean 20.17
RMS 24.77


Time A layer Famus
Entries510744
Mean 17.86
RMS 20.22


Time B layer Famus
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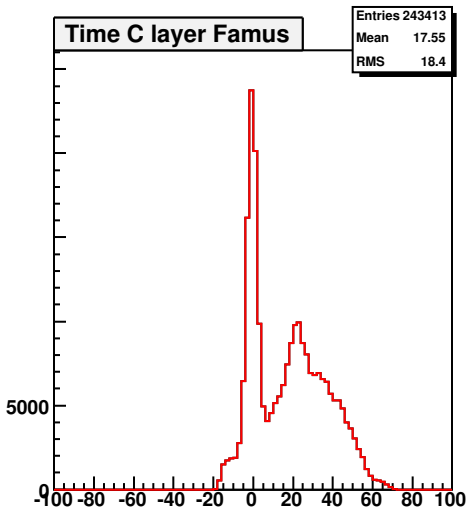
Mean 12.99
RMS 16.64


Time C layer Famus
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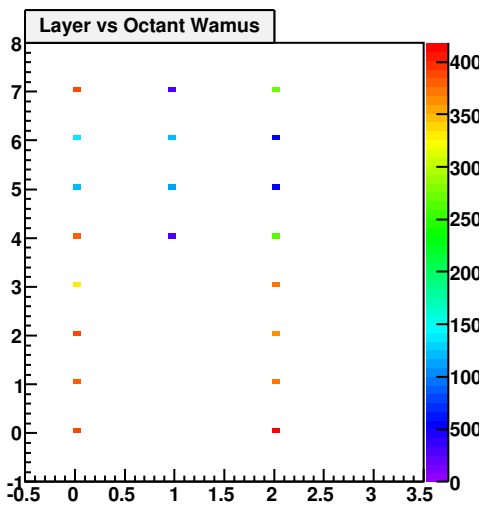
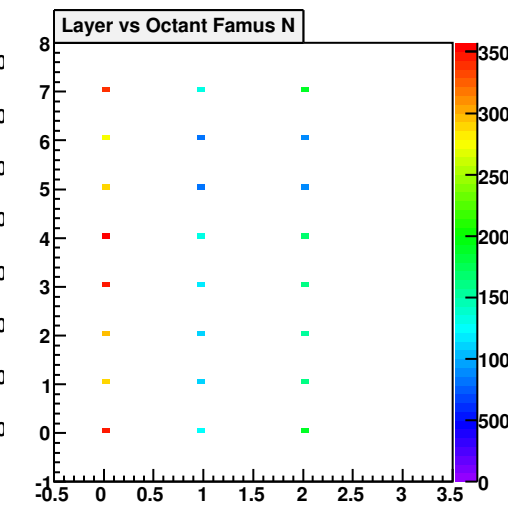
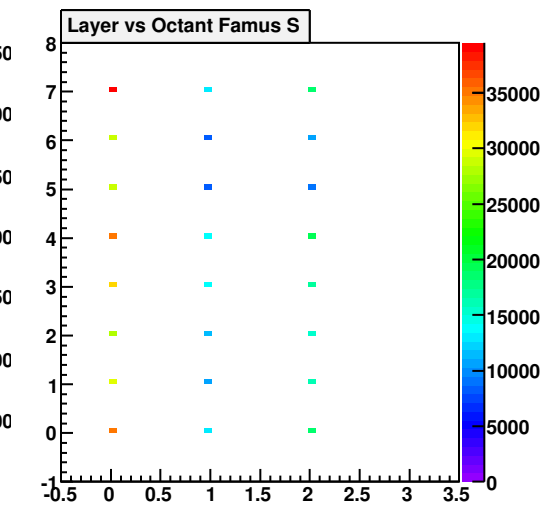
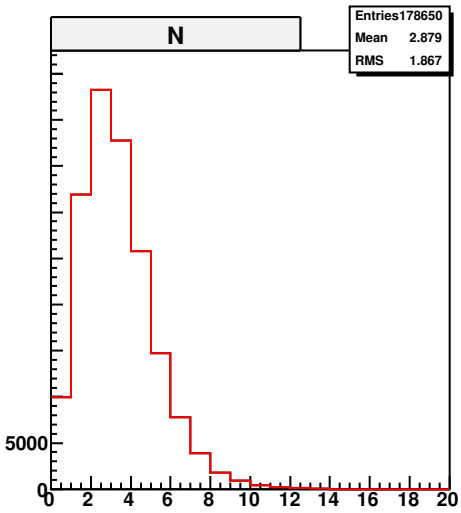
Mean 17.55
RMS 18.4

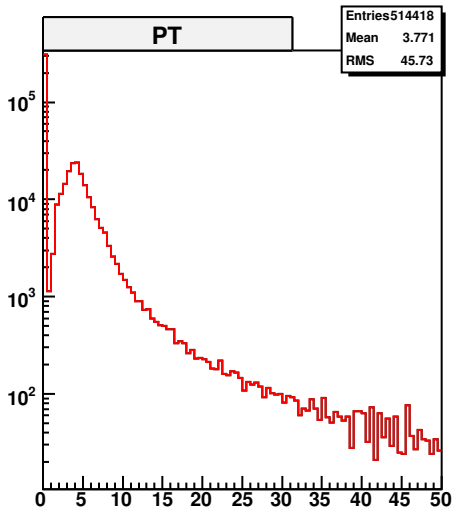

Layer vs Octant Wamus

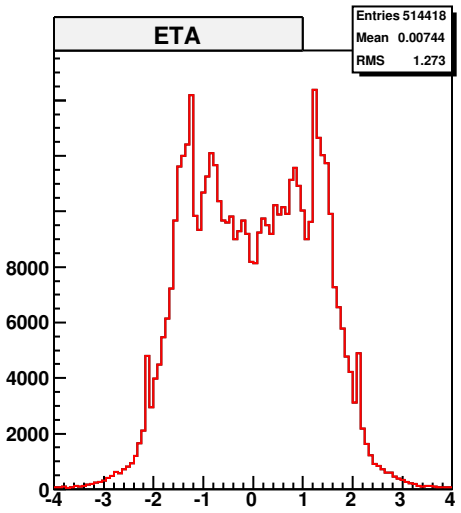

Layer vs Octant Famus N

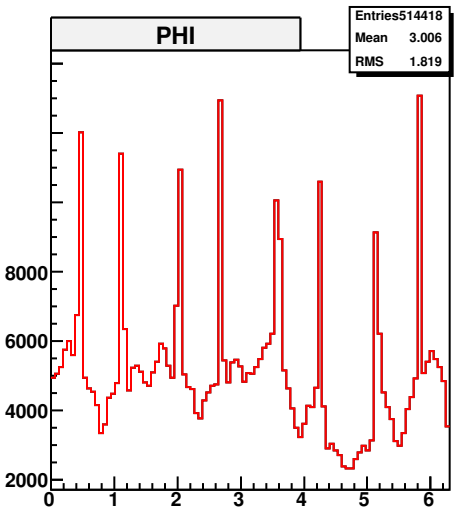

Layer vs Octant Famus S

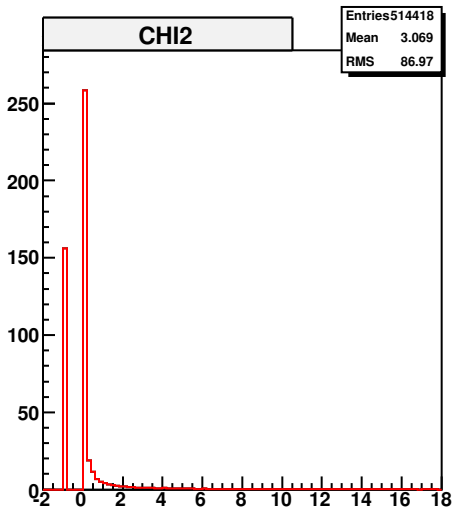
MuonMSC (All)

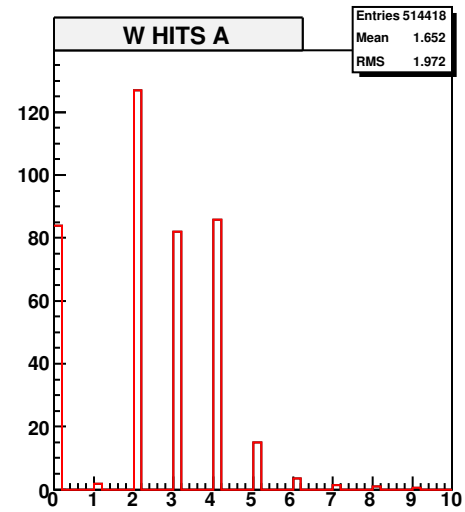


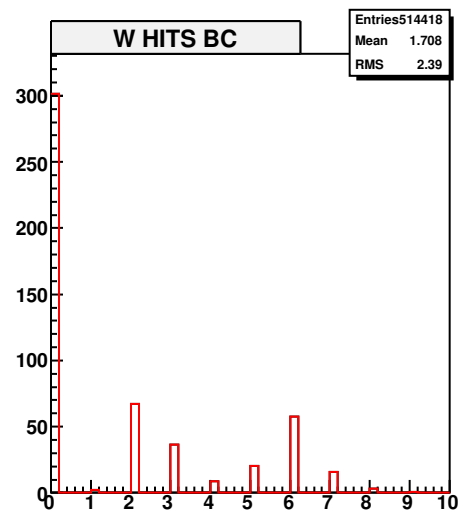


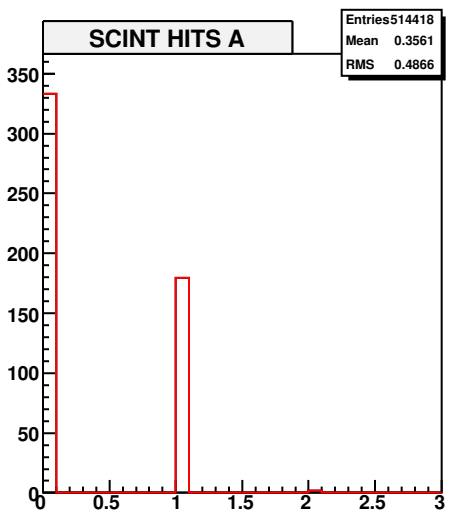


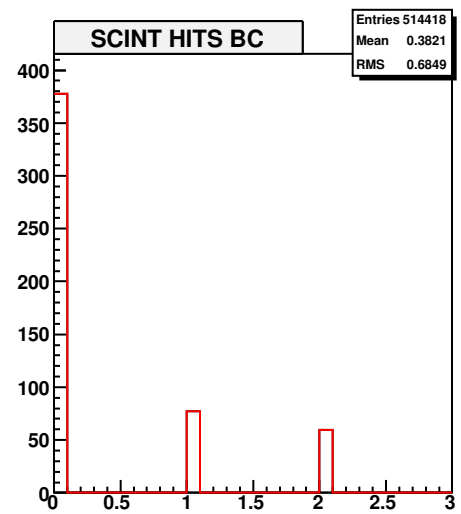




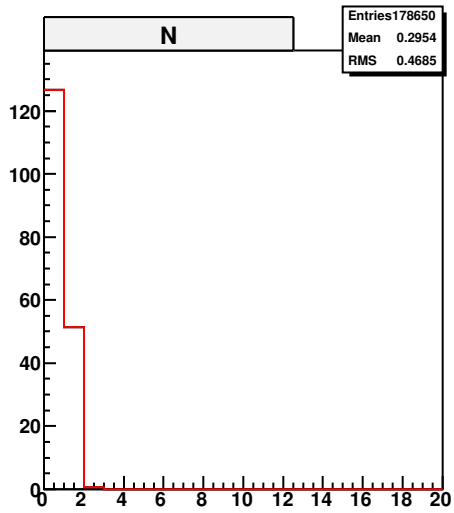


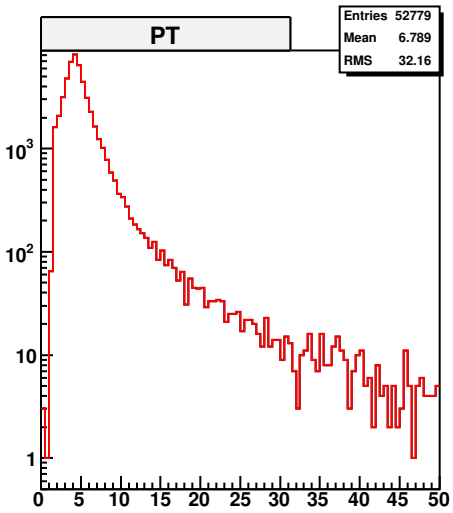


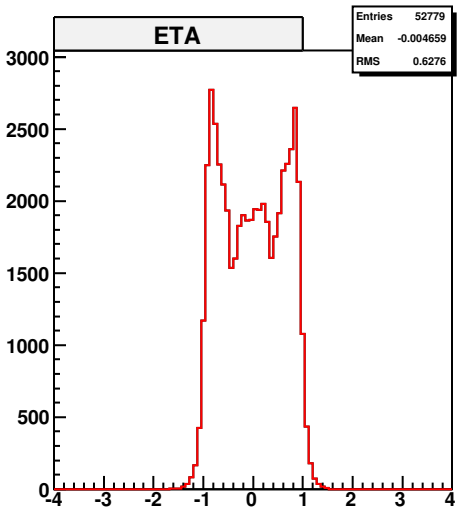


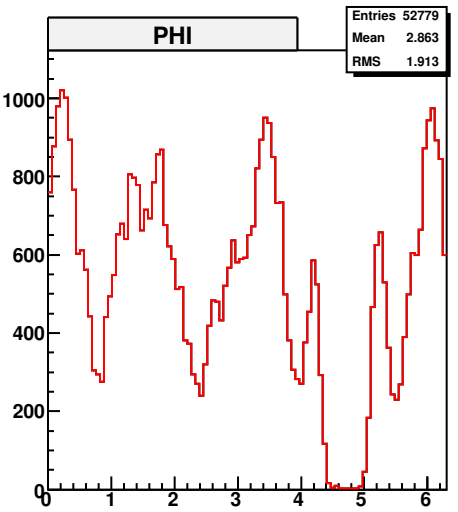


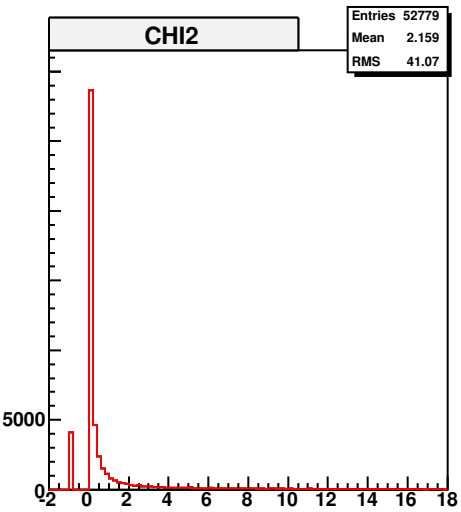
Muon Local Tracks (All)

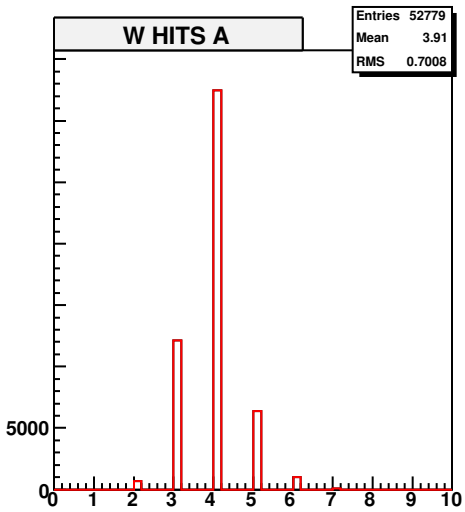


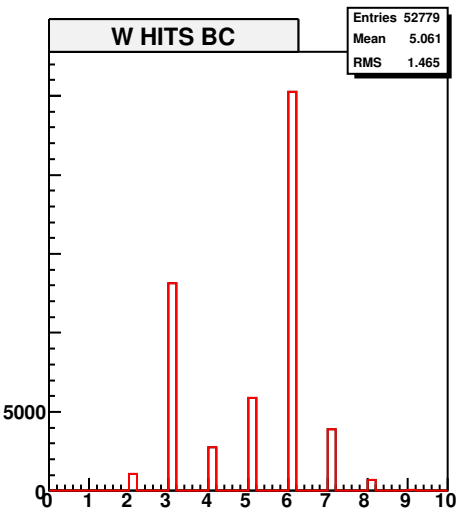


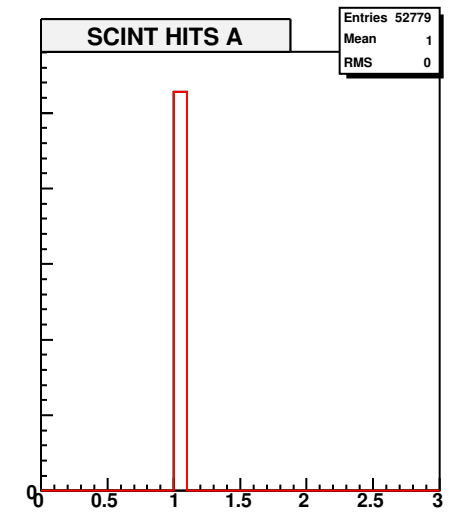


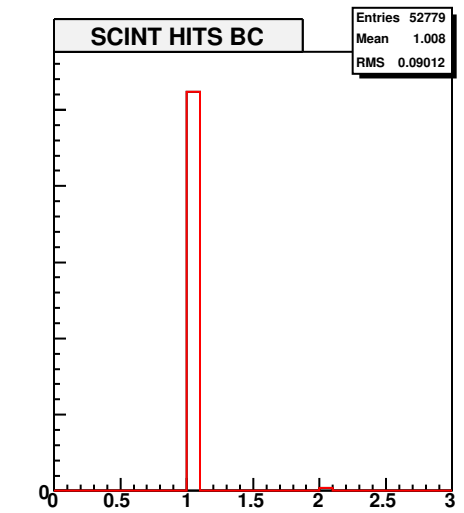




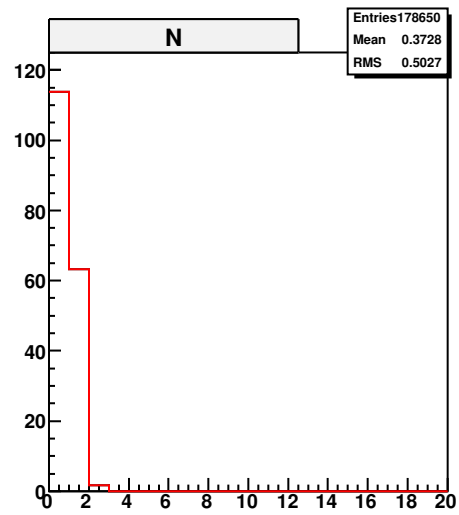


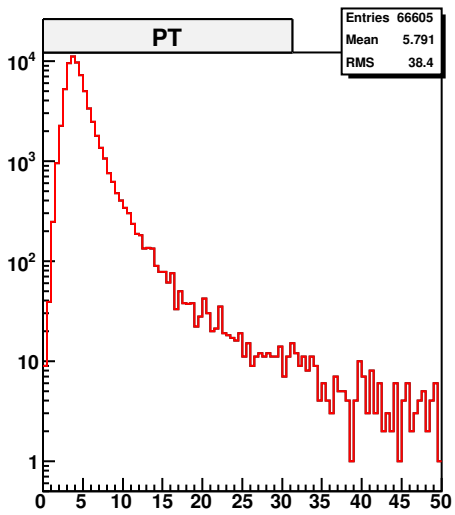


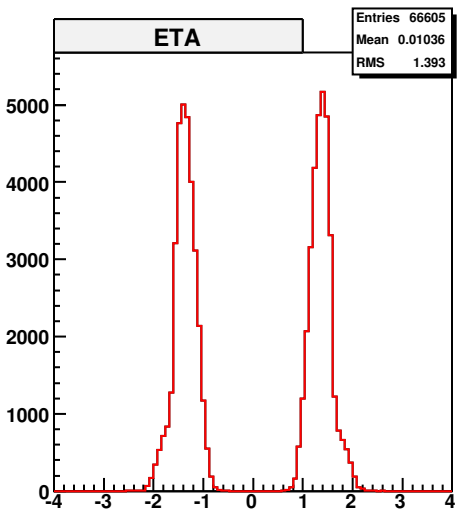


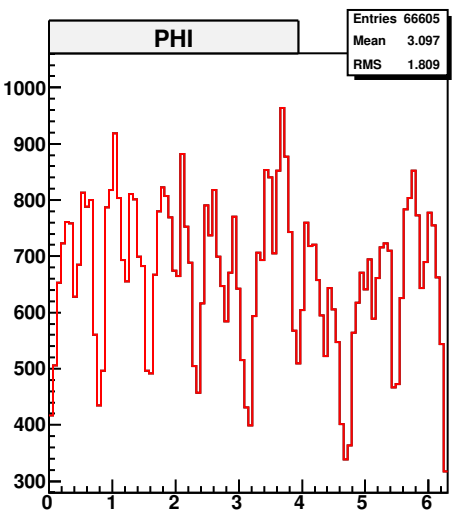


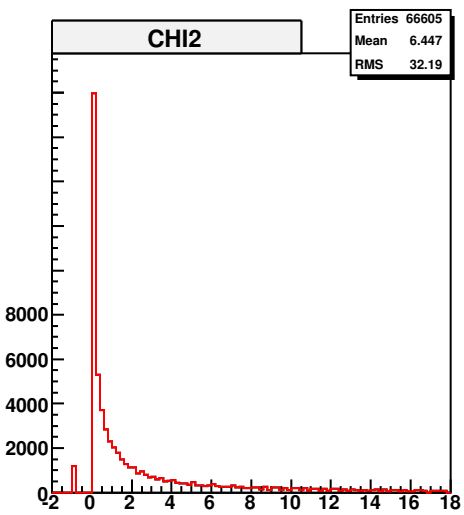
Muon Local Tracks (MediumWamus)

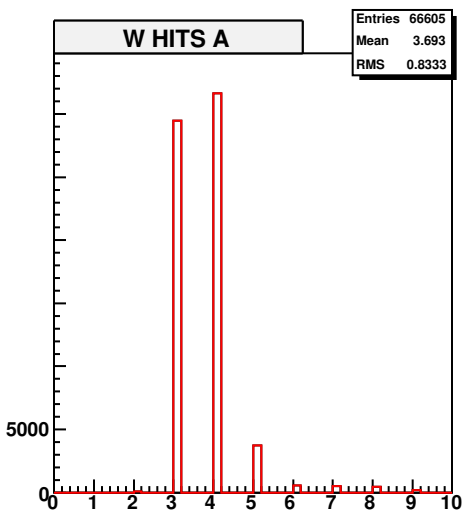


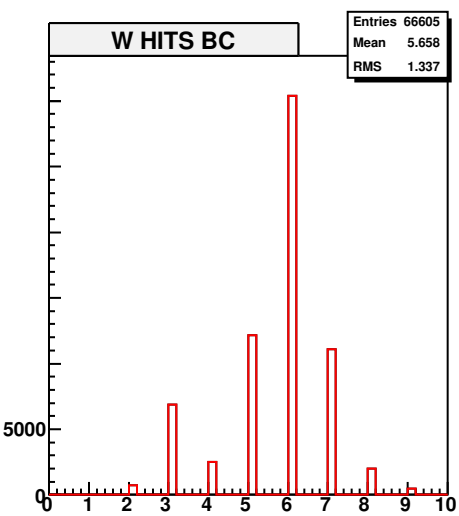


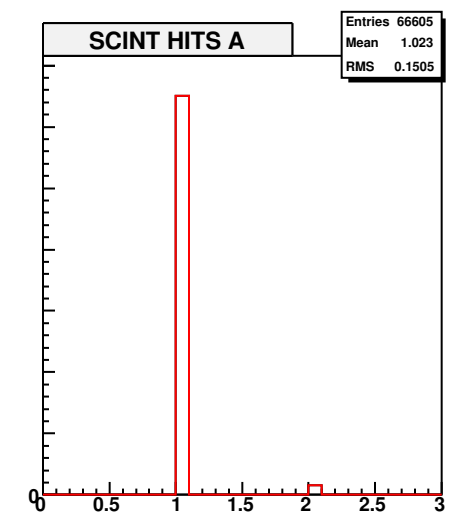


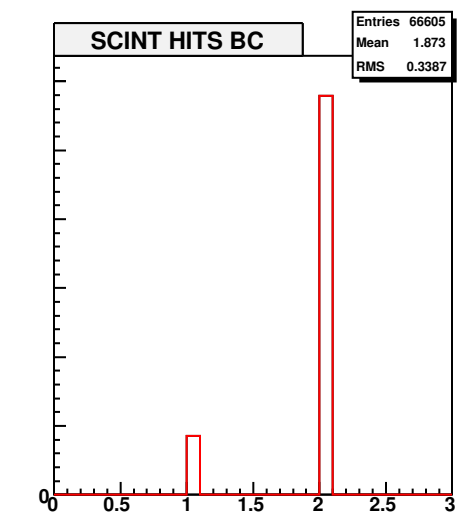




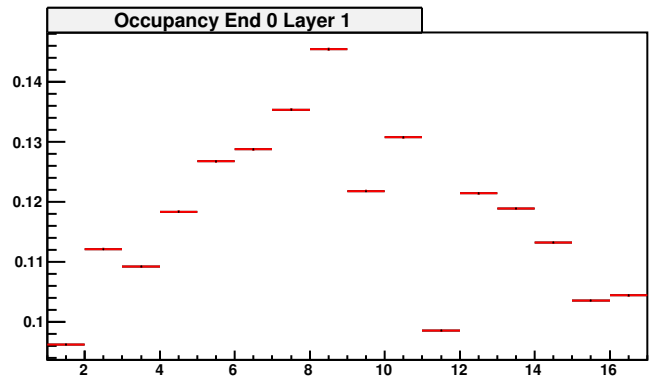


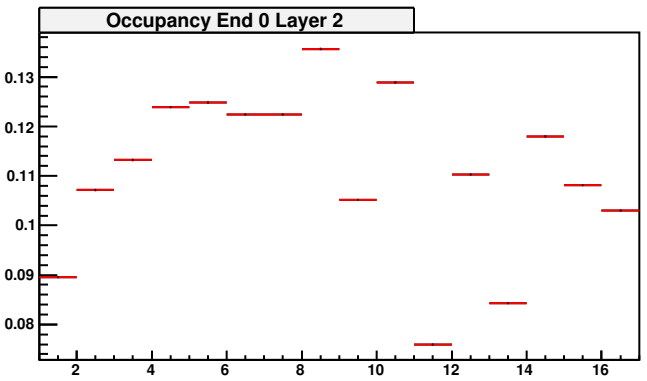


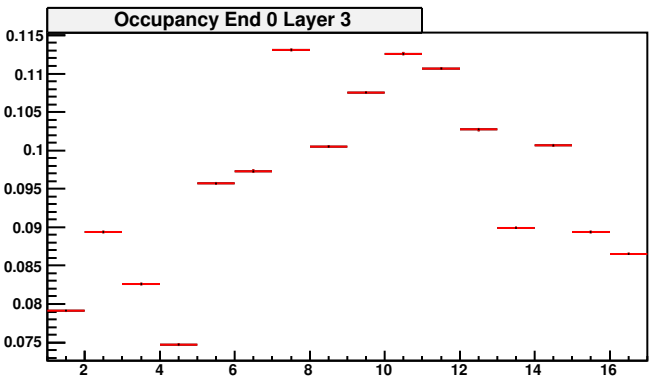


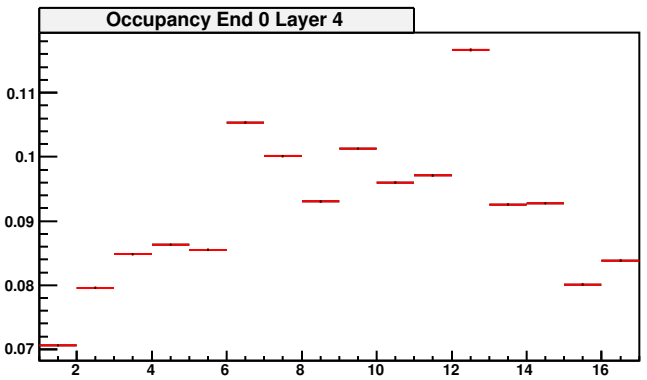


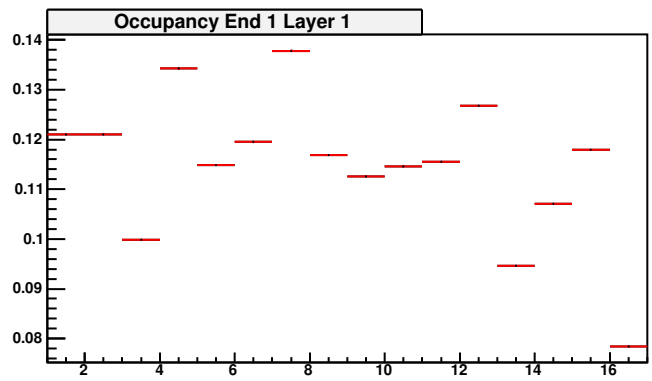
Muon Local Tracks (MediumFamus)

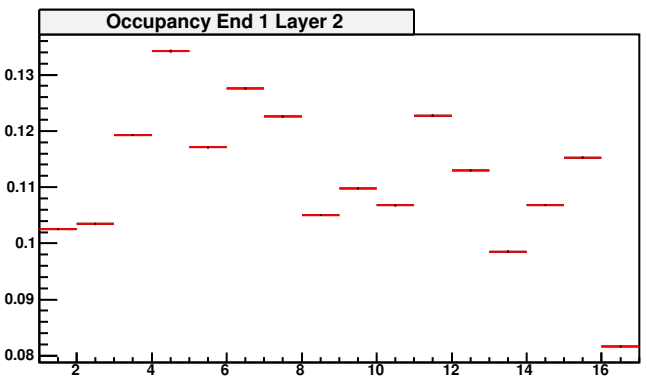


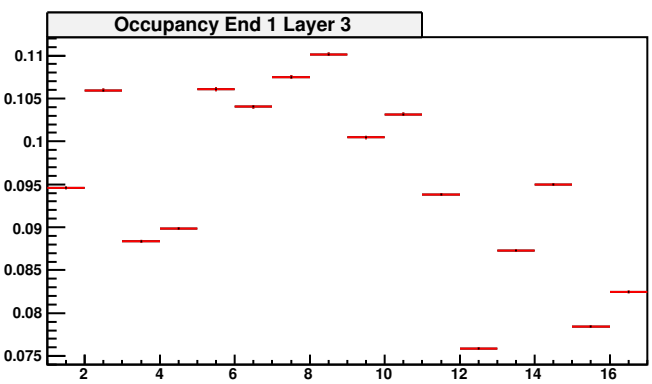


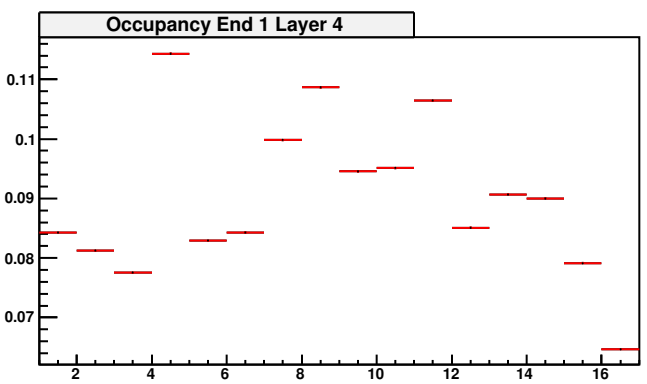




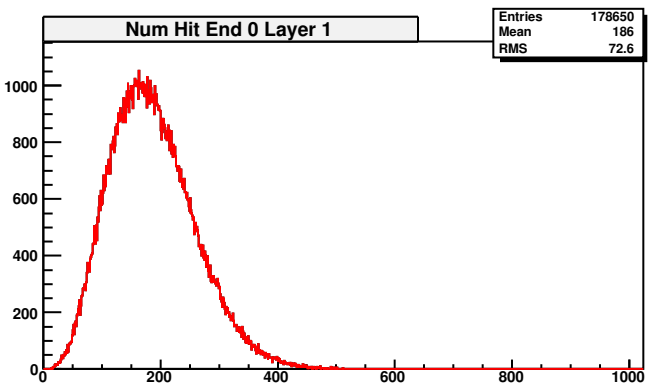


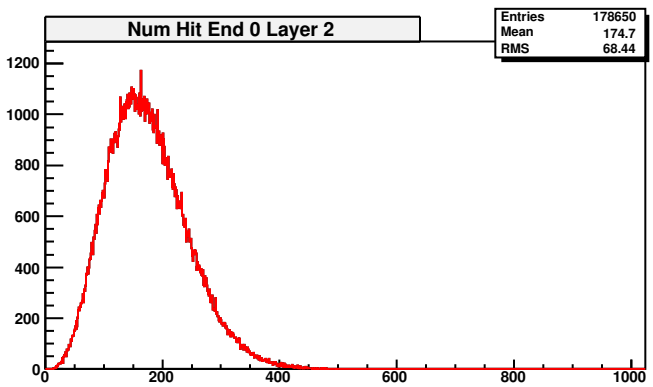


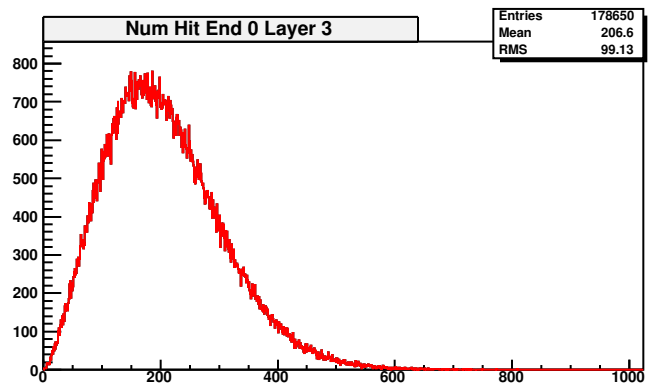


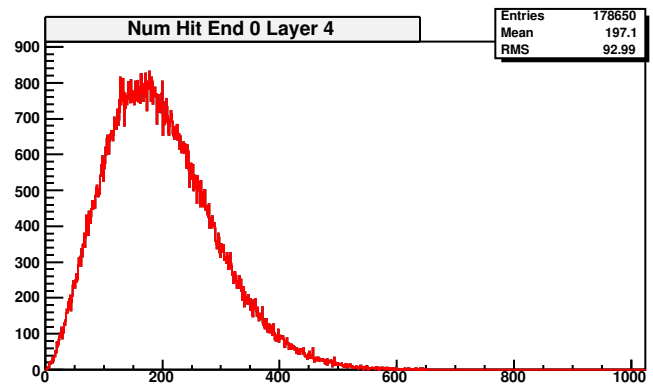


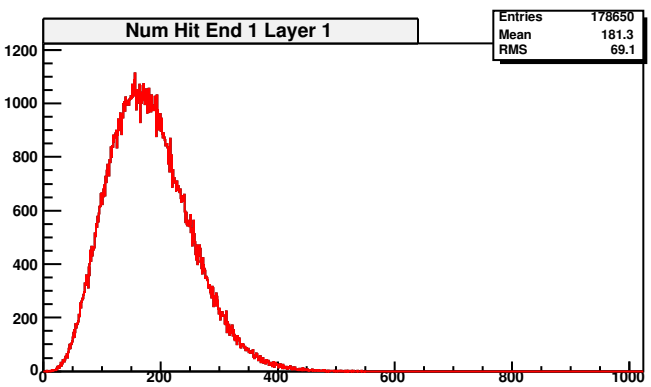
FPS Hit Occupancy (All)

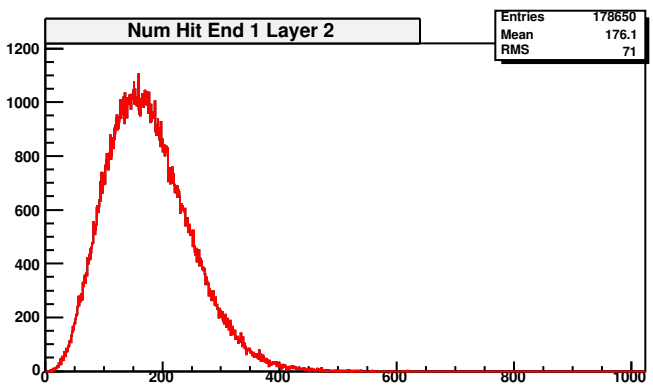


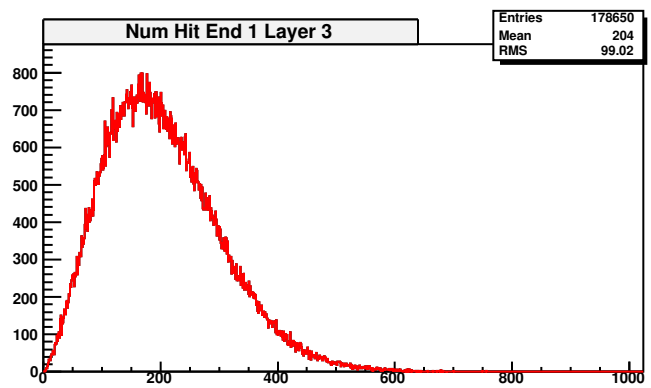


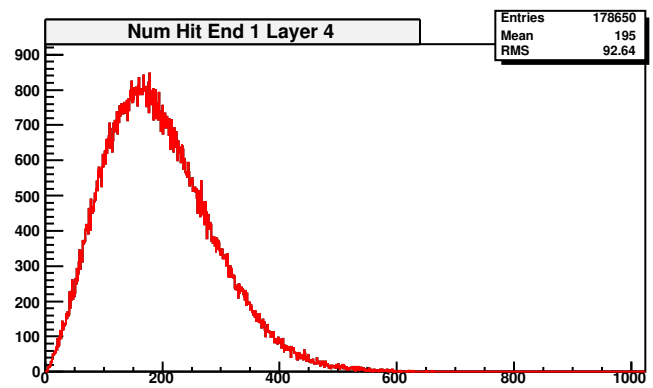




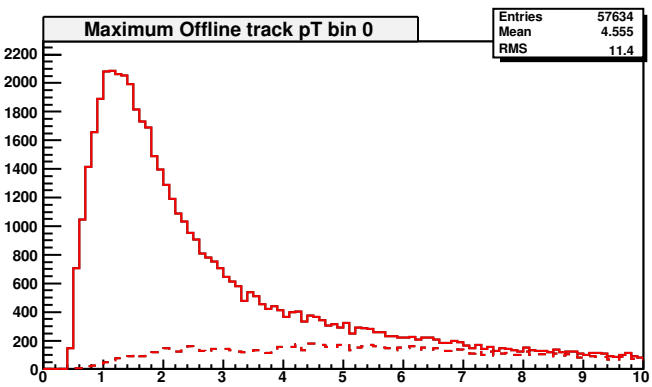


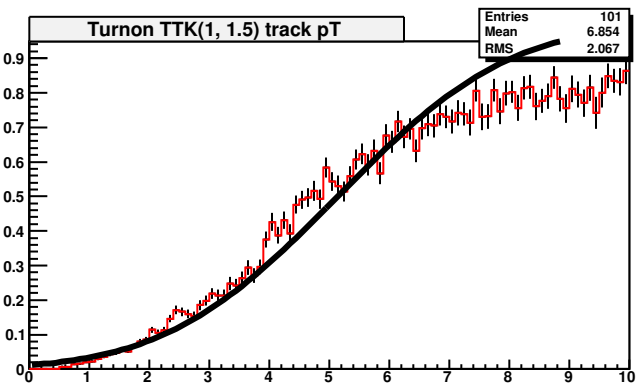


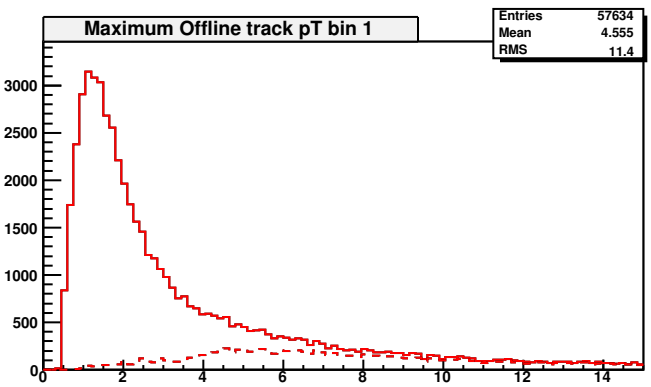


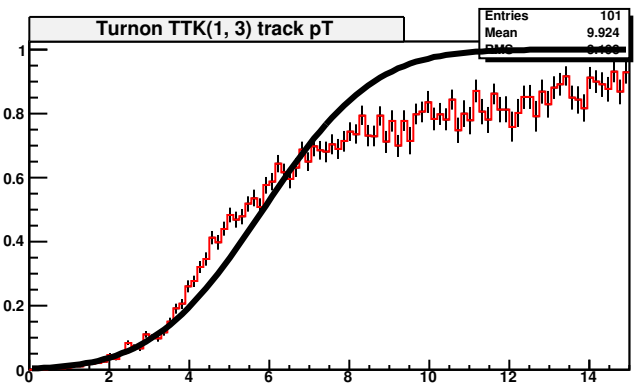


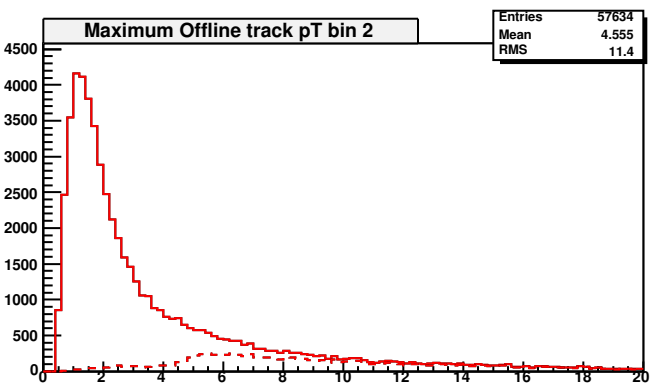
FPS Number of Hits (All)

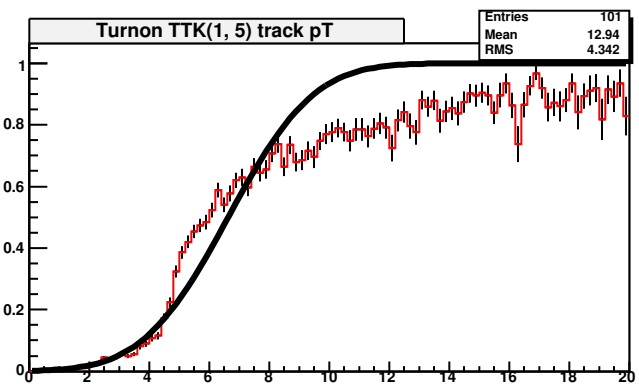


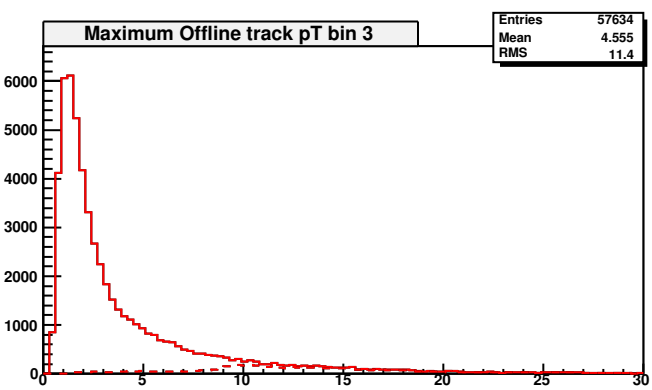


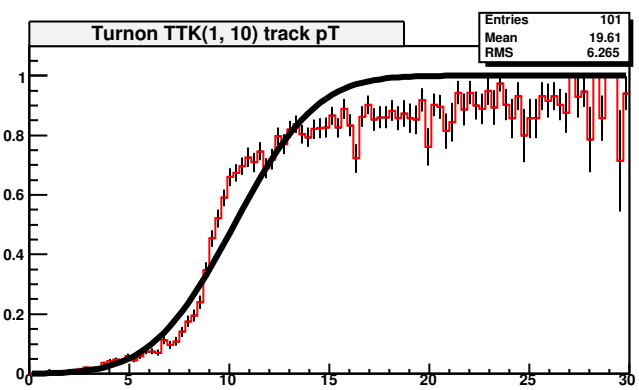




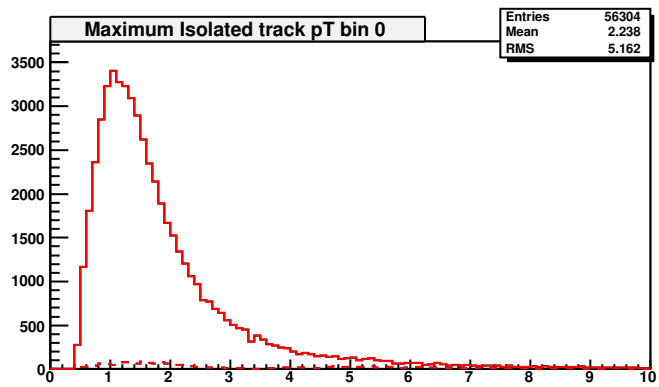


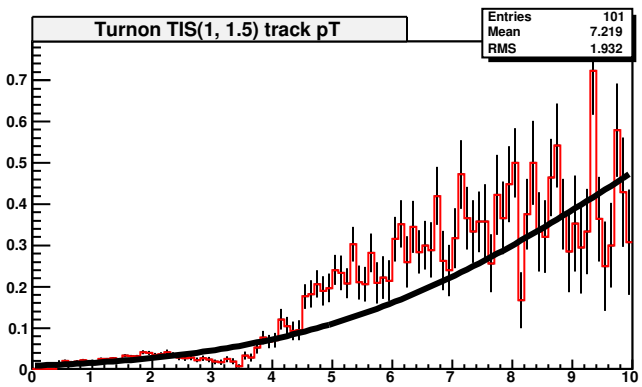


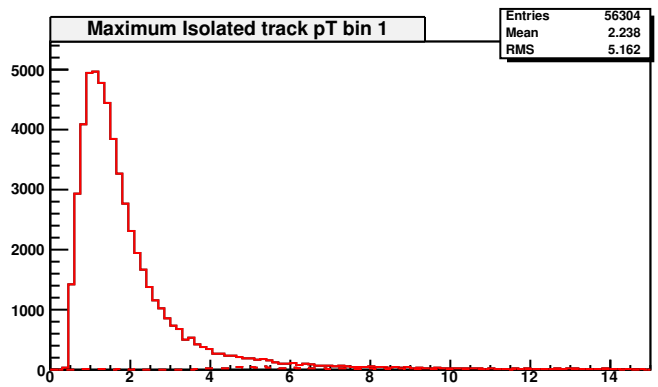


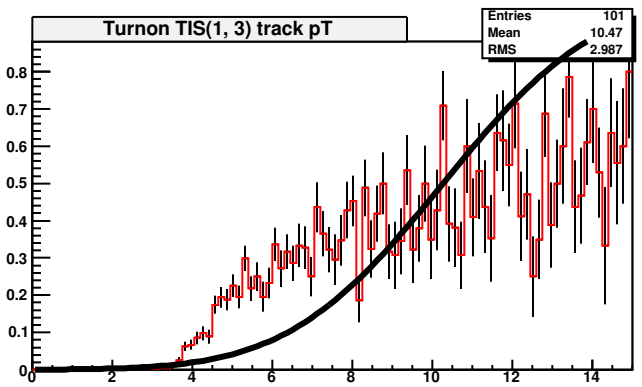


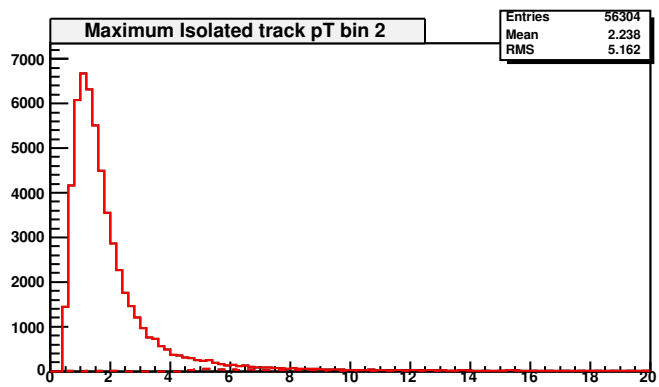
TTK Turnon curves (L1CTT All)

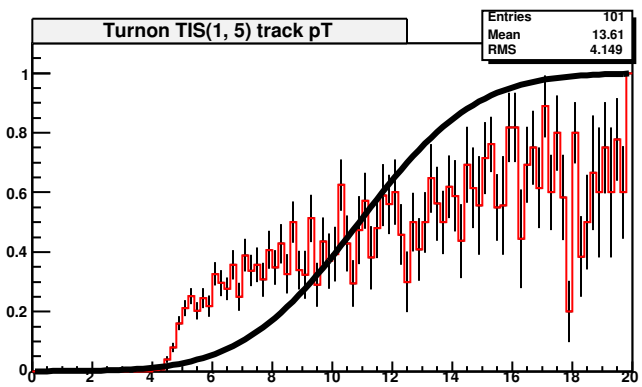


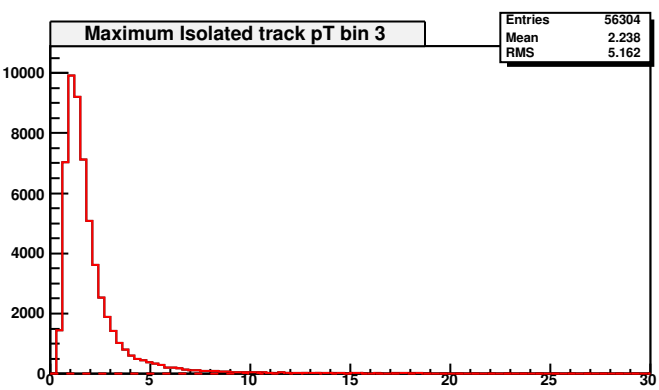


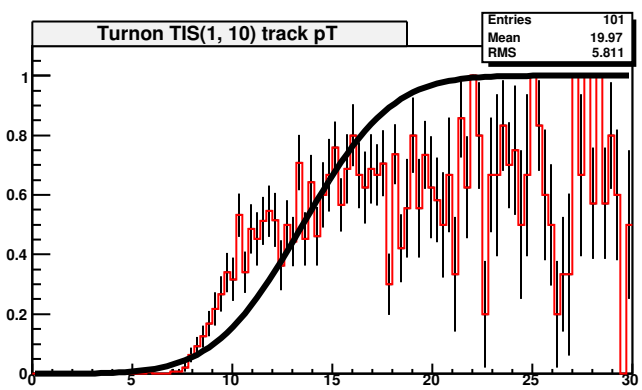




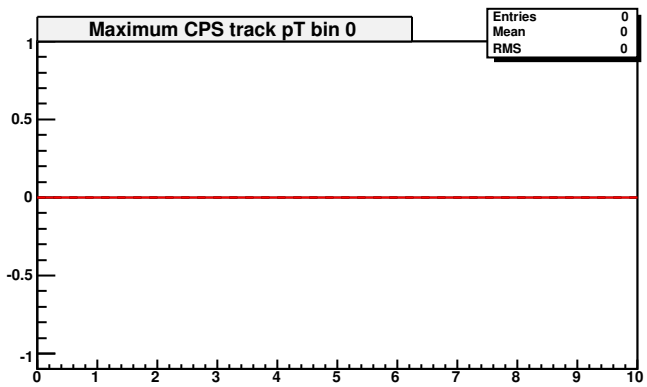


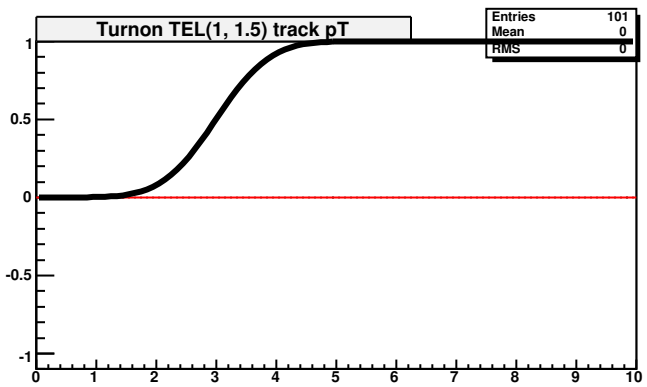


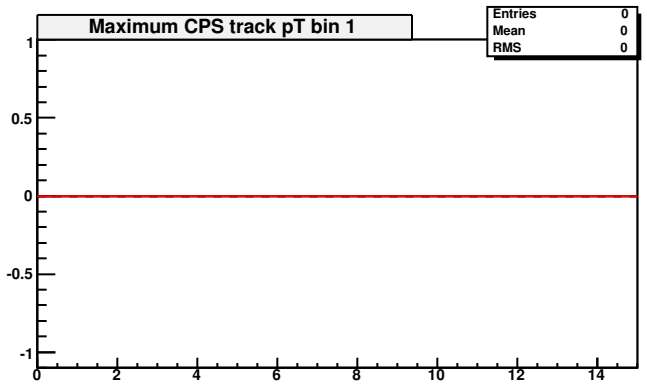


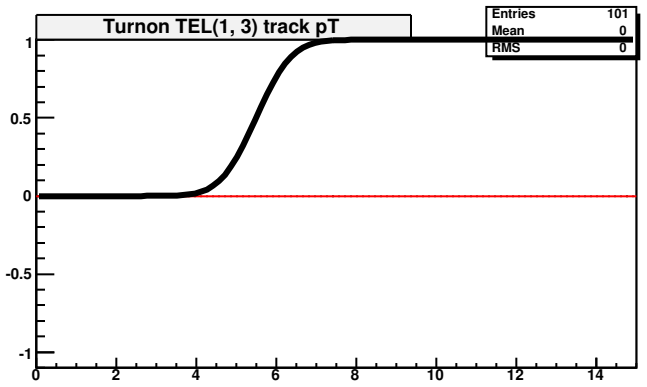


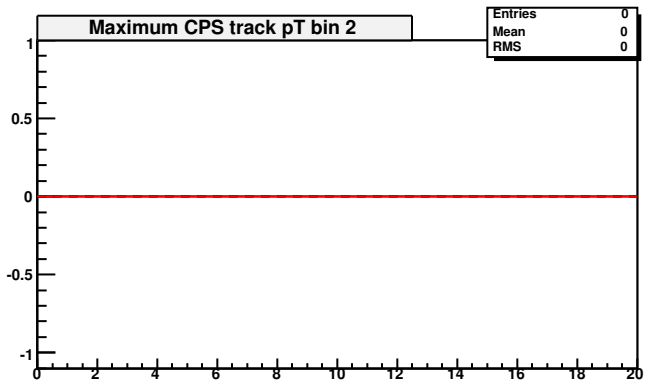
TIS Turnon curves (L1CTT All)

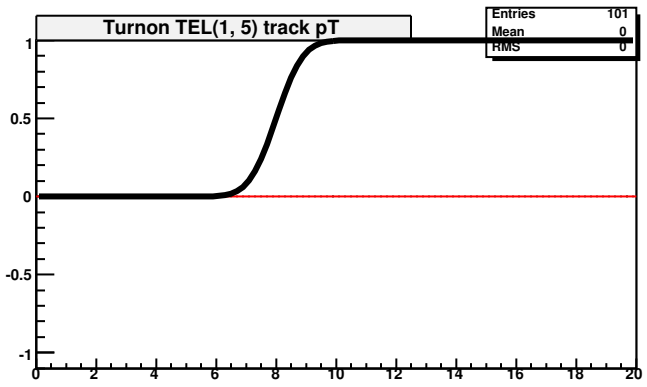


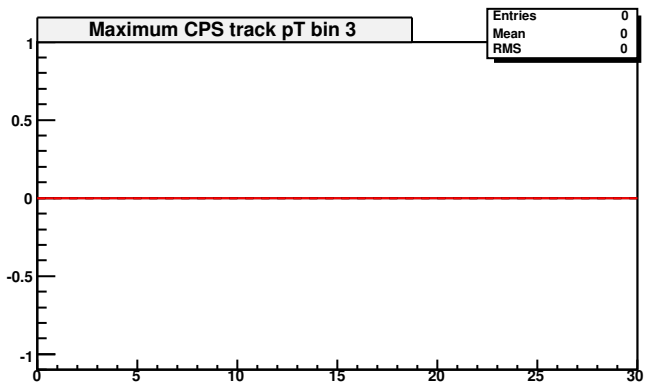


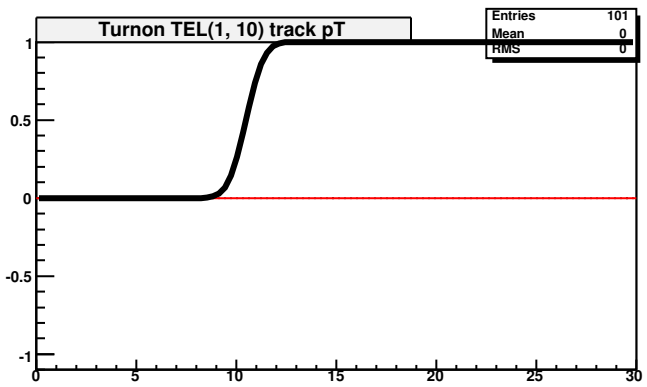




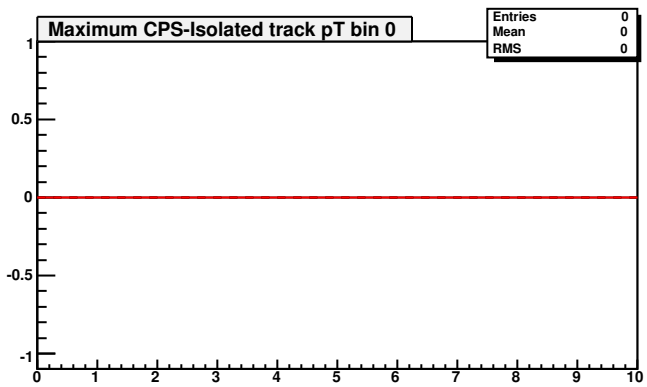


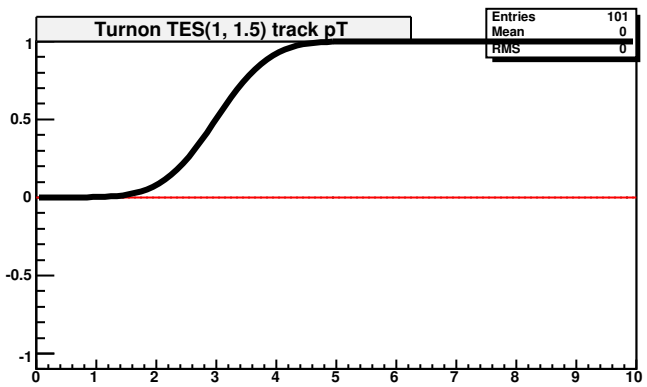


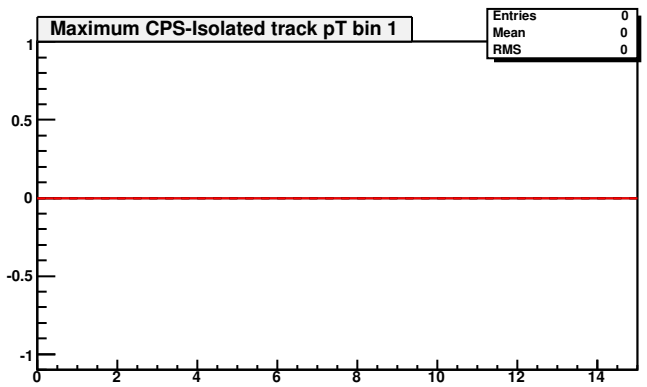


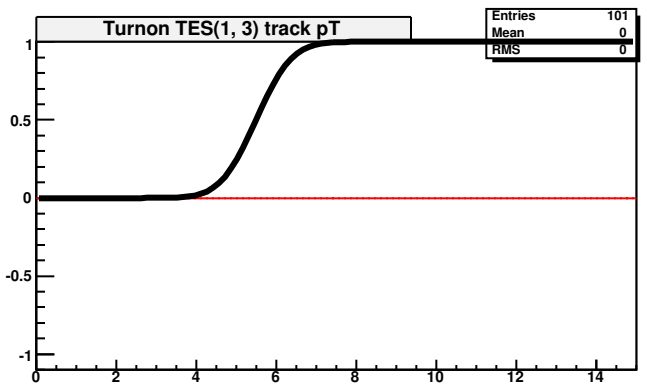


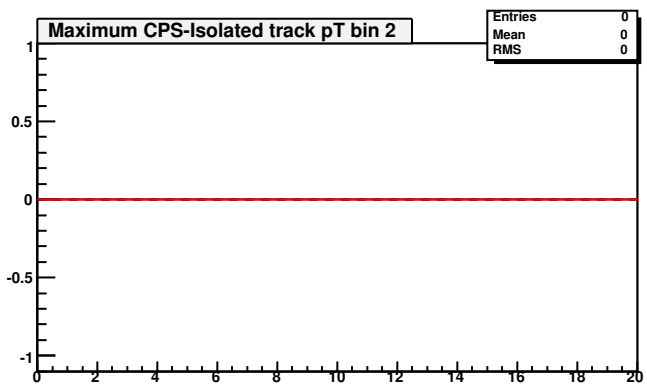
TEL Turnon curves (L1CTT All)

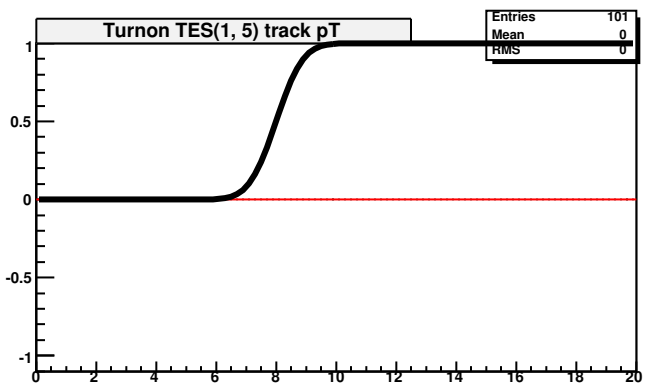


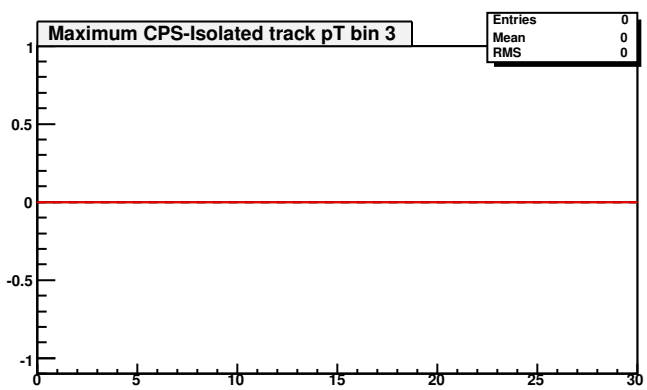


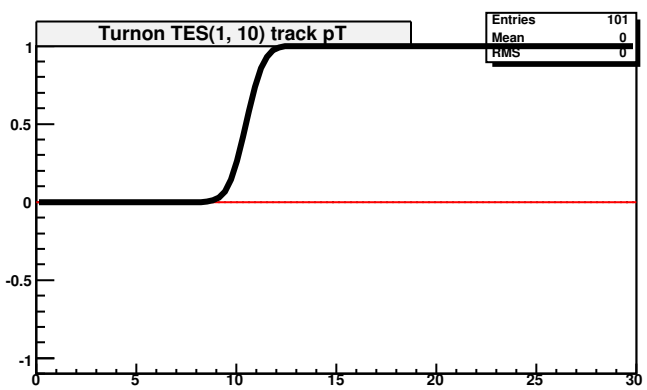




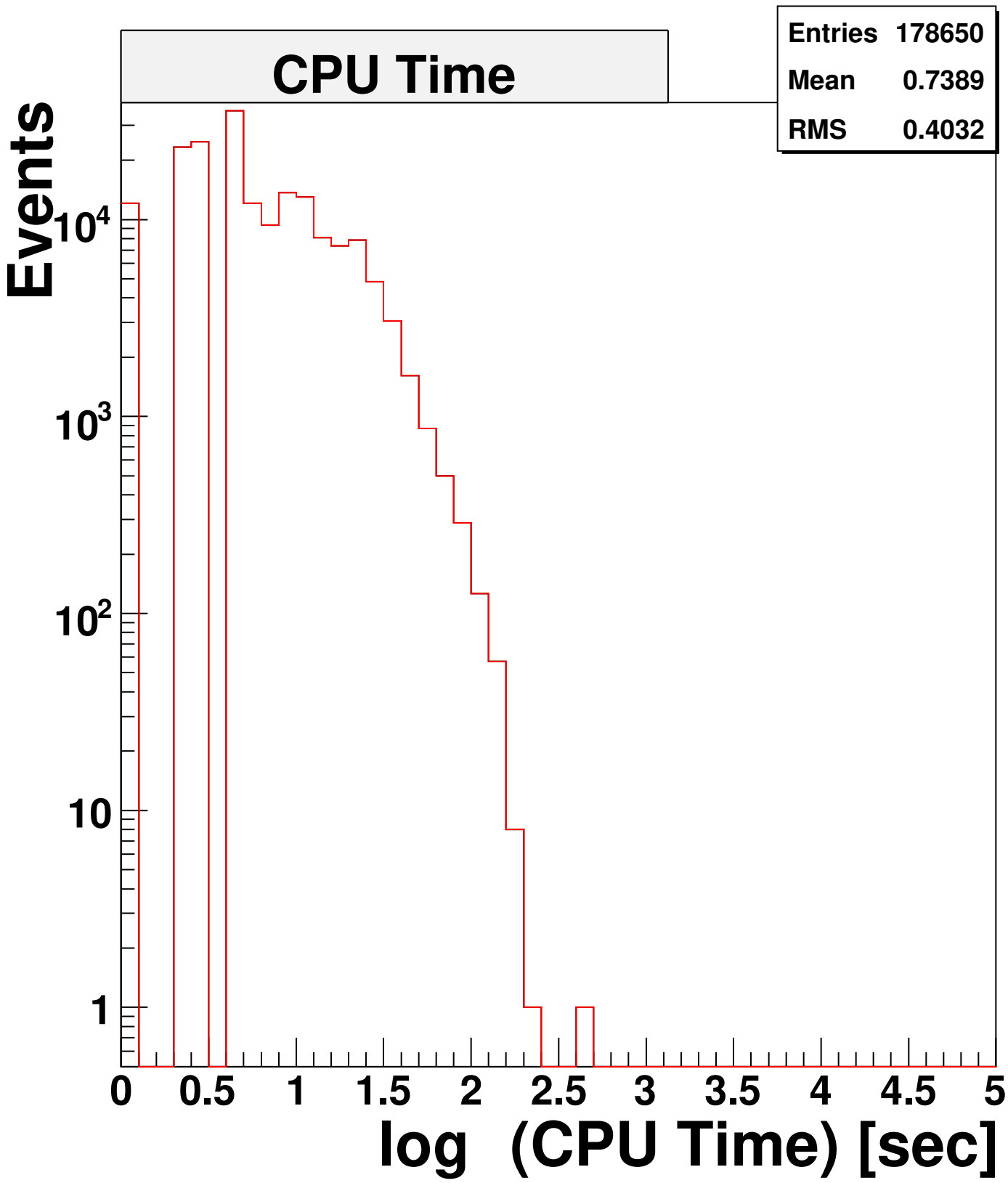








TES Turnon curves (L1CTT All)



RECO Performance (Timing)