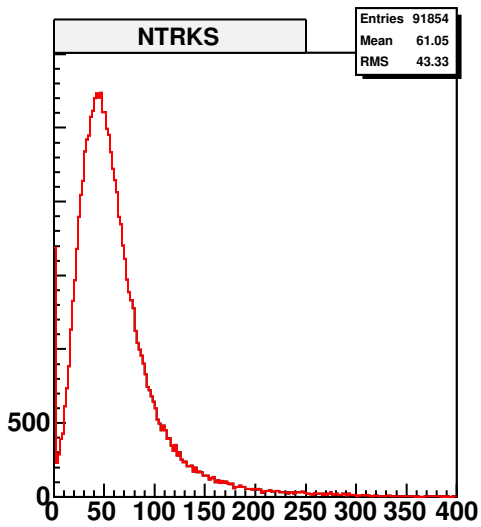
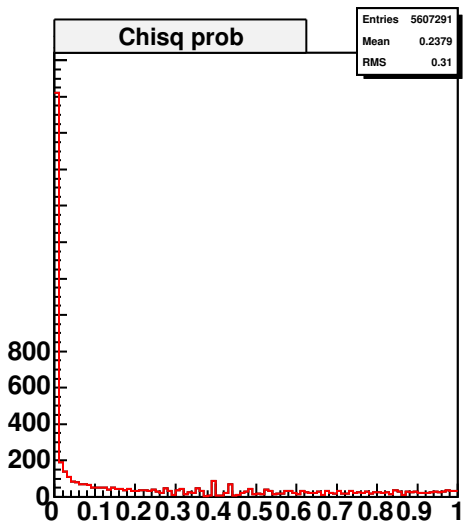
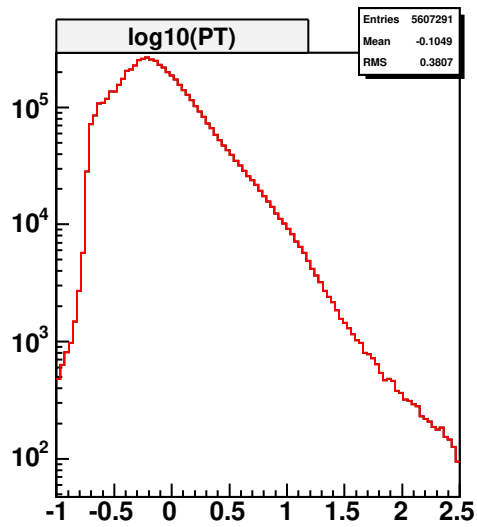
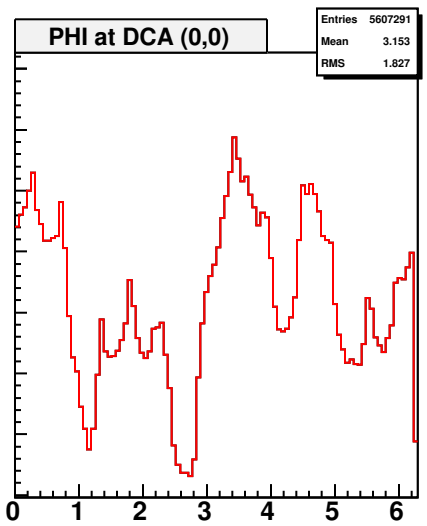
dayset-2004-06-20-194289-2_certification_

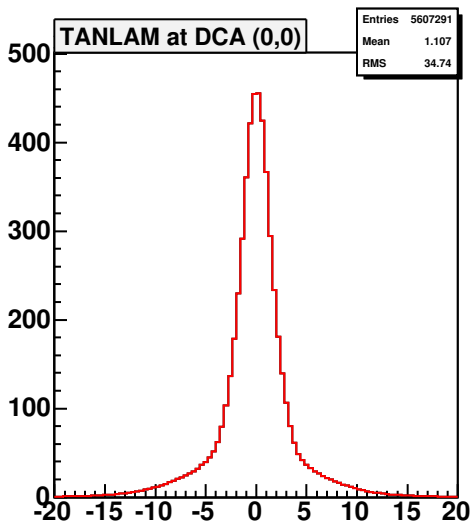
dayset-2004-06-20-194289-2_certification_

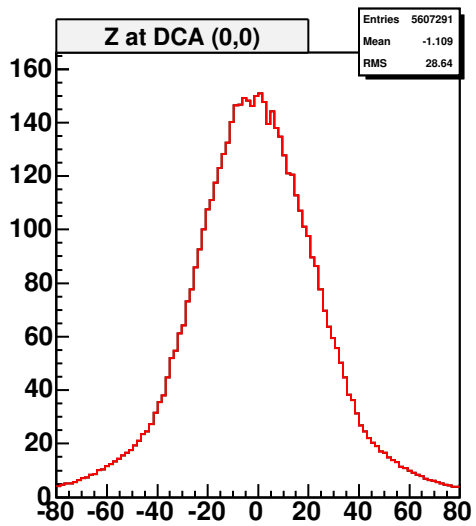

NTRKS
Entries 91854
Mean 61.05
RMS 43.33
500
0
0 50 100 150 200 250 300 350 400

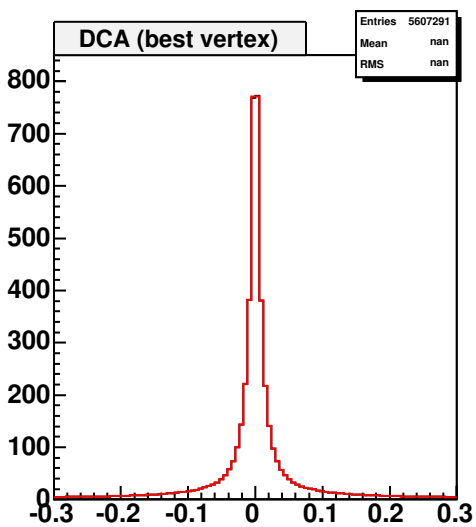

Chisq prob
Entries 5607291
Mean 0.2379
RMS 0.31
800
600
400
200
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

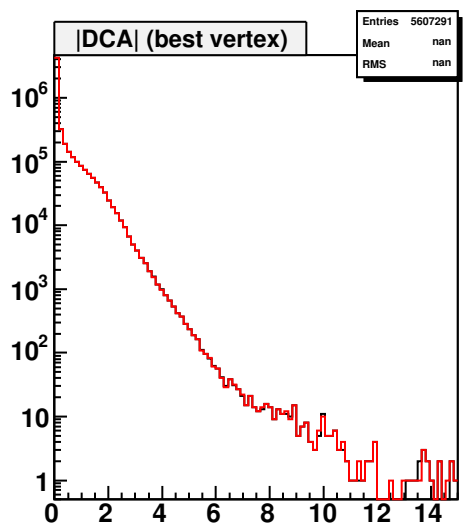

log10(PT)
Entries 5607291
Mean -0.1049
RMS 0.3807
10^5
10^4
10^3
10^2
-1 -0.5 0 0.5 1 1.5 2 2.5

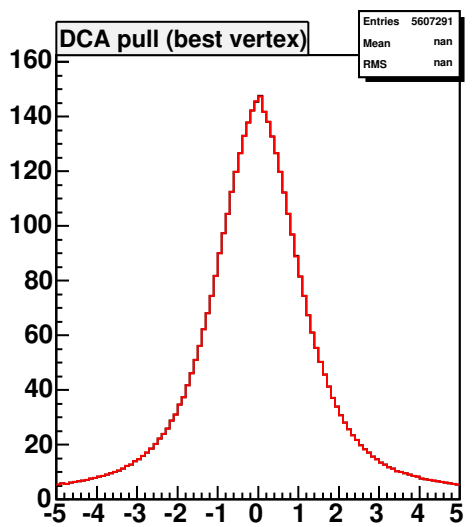

PHI at DCA (0,0)
Entries 5607291
Mean 3.153
RMS 1.827
0 1 2 3 4 5 6


TANLAM at DCA (0,0)
Entries 5607291
Mean 1.107
RMS 34.74
500
400
300
200
100
0
-20 -15 -10 -5 0 5 10 15 20

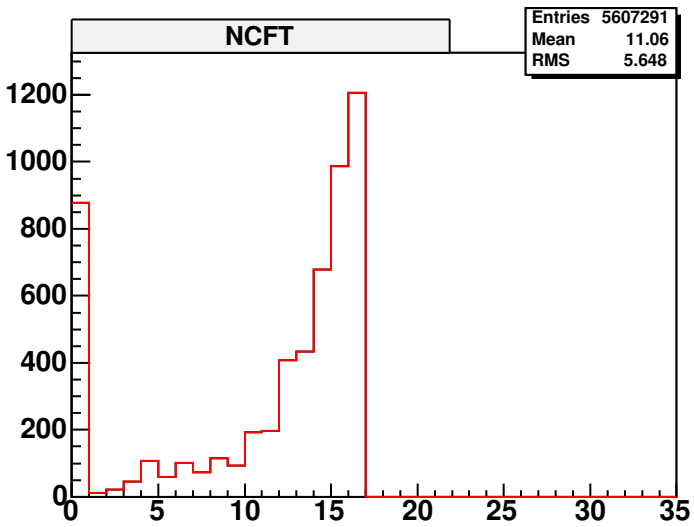

Z at DCA (0,0)
Entries 5607291
Mean -1.109
RMS 28.64
160
140
120
100
80
60
40
20
0
-80 -60 -40 -20 0 20 40 60 80

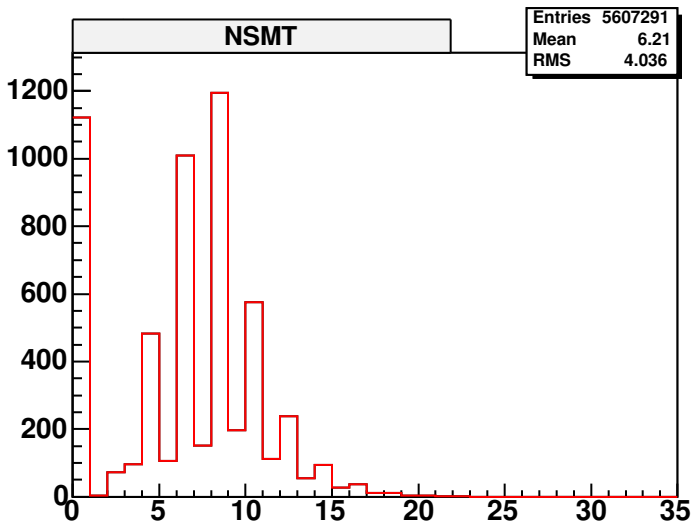

DCA (best vertex)
Entries 5607291
Mean nan
RMS nan
800
700
600
500
400
300
200
100
0
-0.3 -0.2 -0.1 0 0.1 0.2 0.3

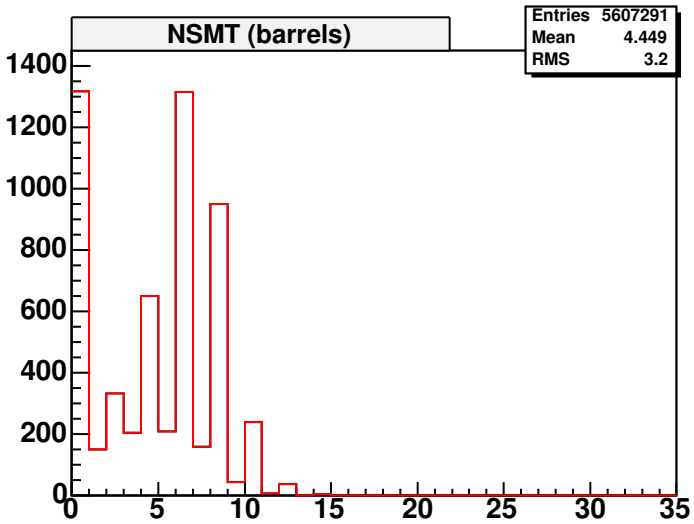

|DCA| (best vertex)
Entries 5607291
Mean nan
RMS nan
10^6
10^5
10^4
10^3
10^2
10
1
0 2 4 6 8 10 12 14

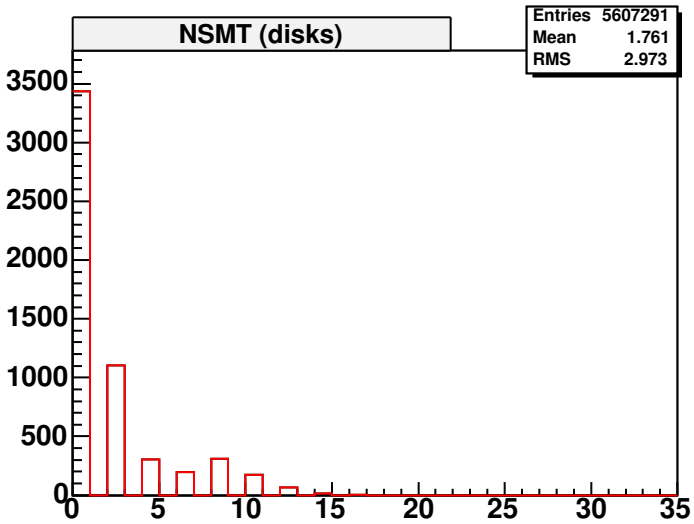

DCA pull (best vertex)
Entries 5607291
Mean nan
RMS nan
160
140
120
100
80
60
40
20
0
-5 -4 -3 -2 -1 0 1 2 3 4 5

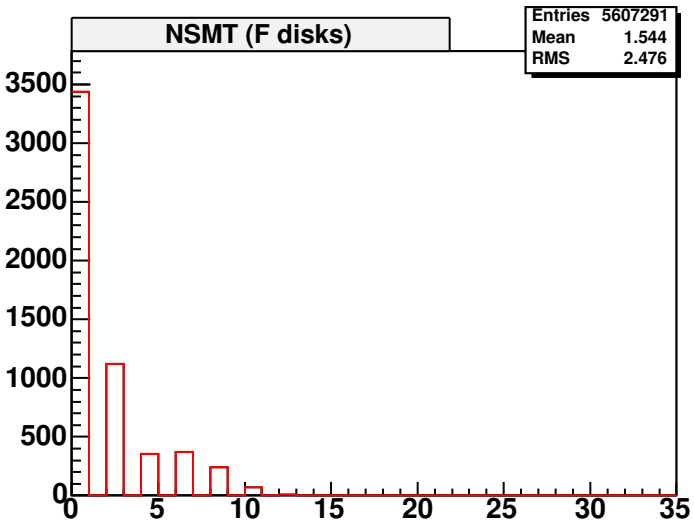
Tracks (All)

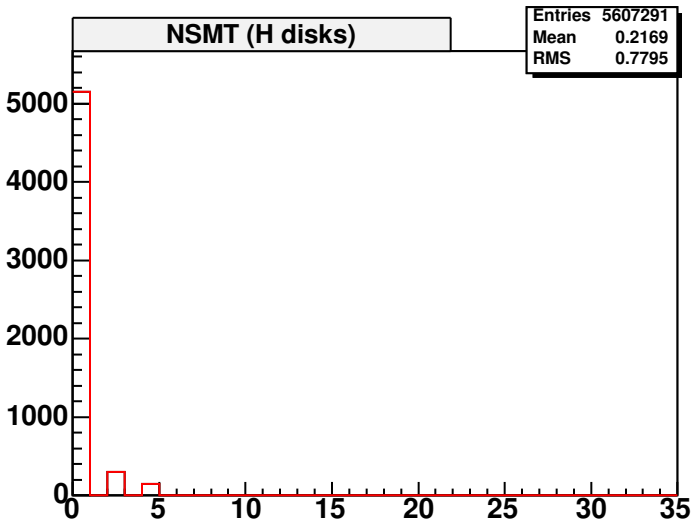




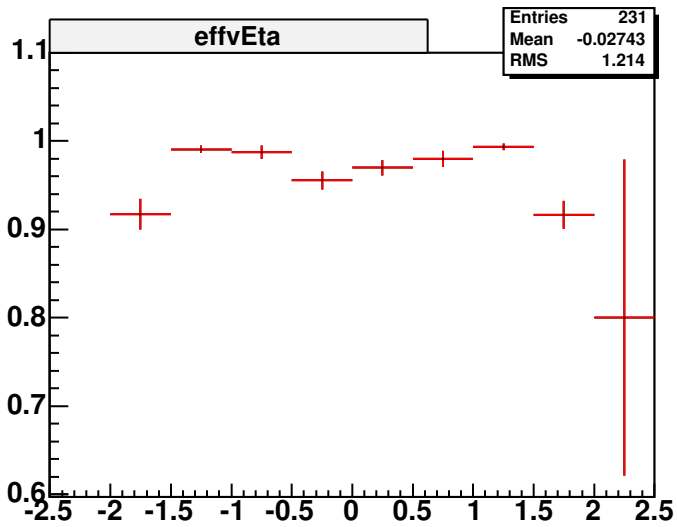


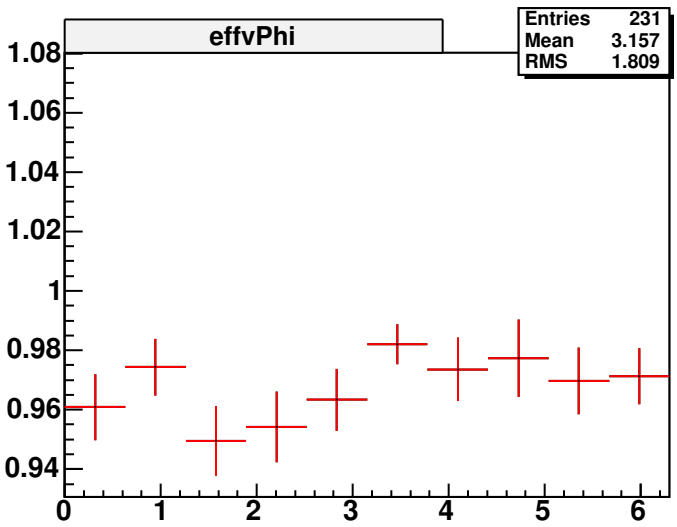


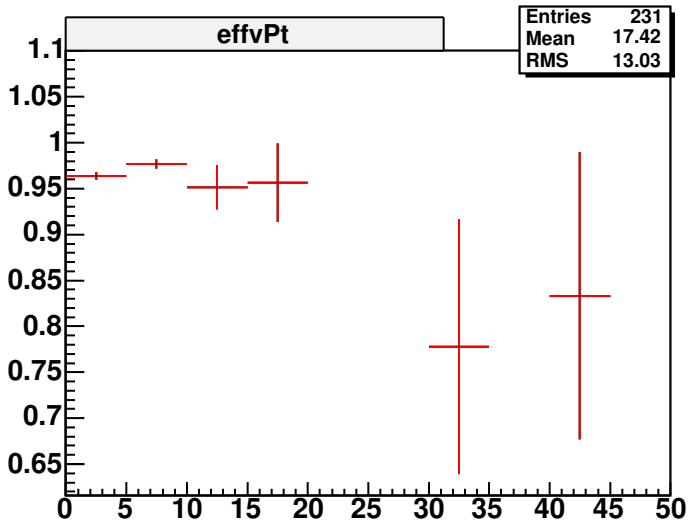


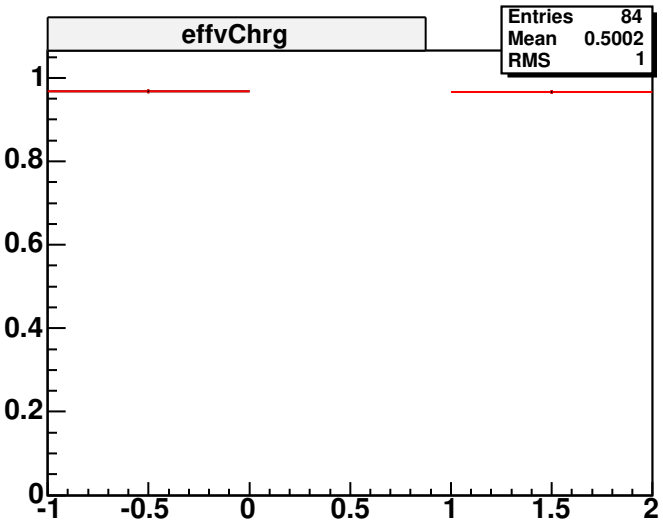


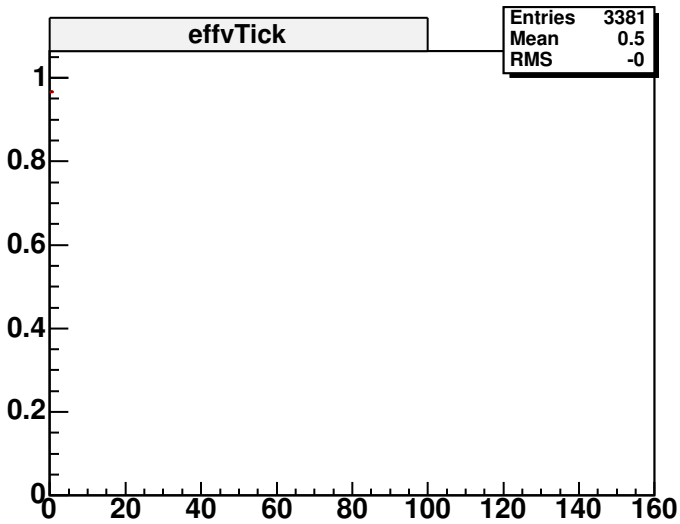
Track Hits (All)

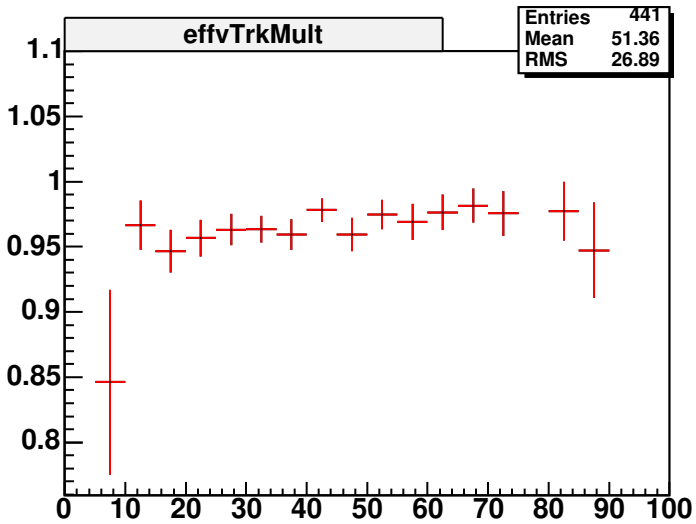




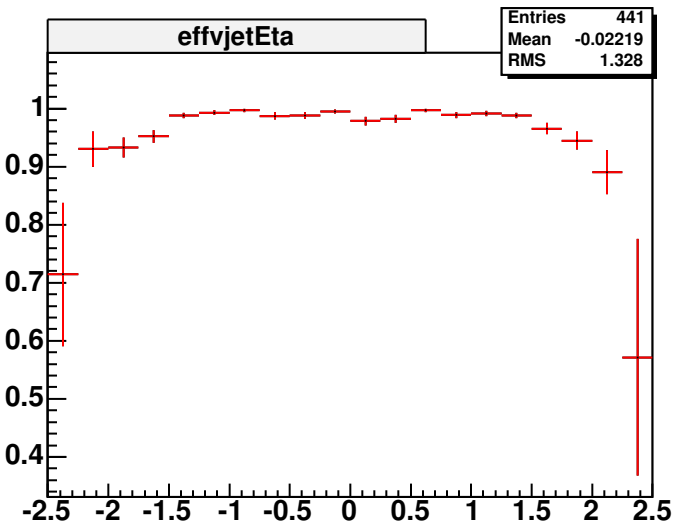


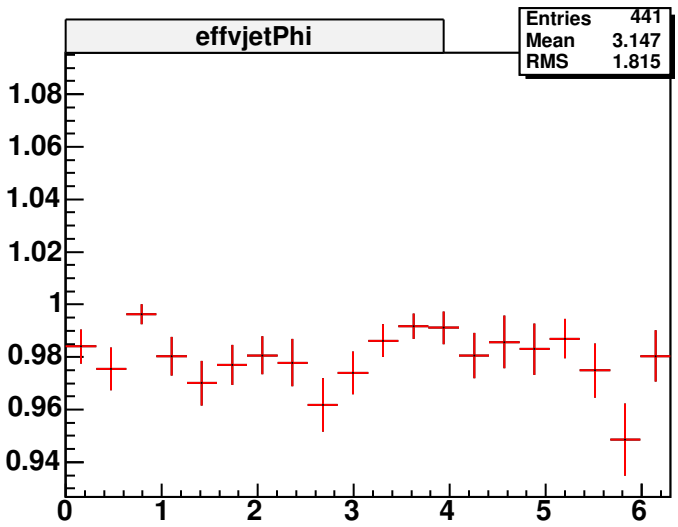


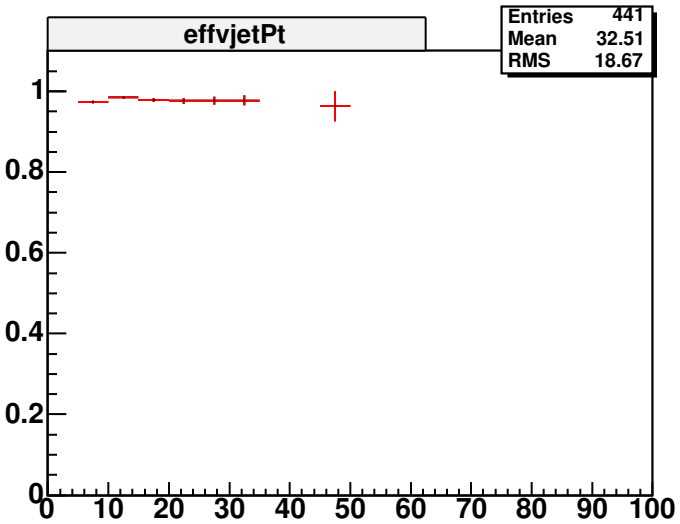


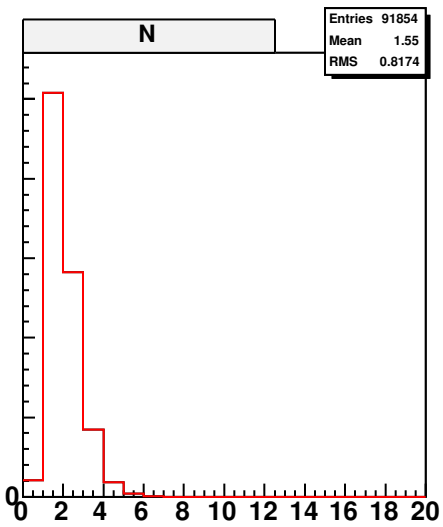


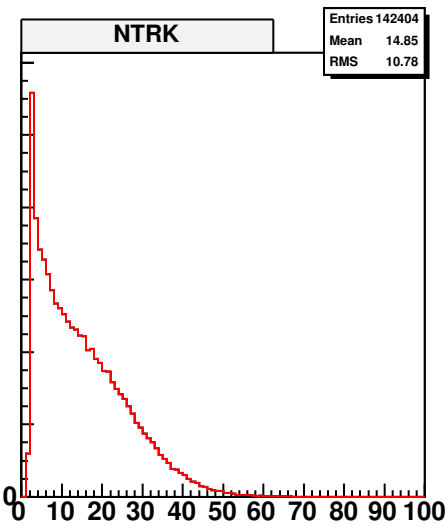
Tracking (Efficiency-Isolated)

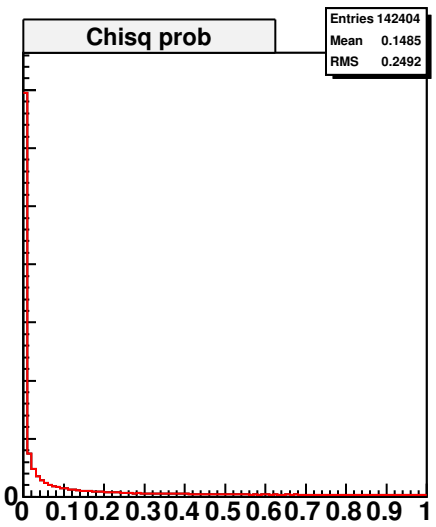

effvjetEta
Entries 441
Mean -0.02219
RMS 1.328
1
0.9
0.8
0.7
0.6
0.5
0.4
-2.5 -2 -1.5 -1 -0.5 0 0.5 1 1.5 2 2.5

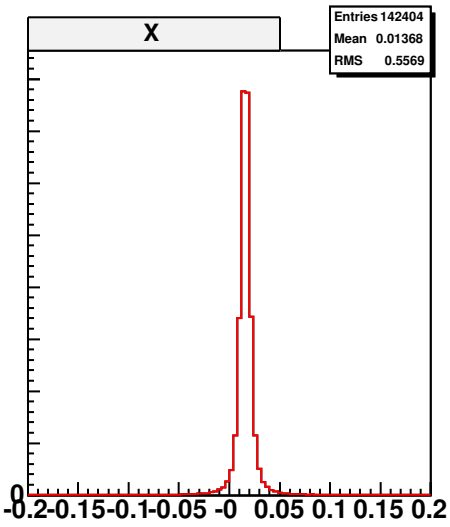

effvjetPhi
Entries 441
Mean 3.147
RMS 1.815
1.08
1.06
1.04
1.02
1
0.98
0.96
0.94
0 1 2 3 4 5 6

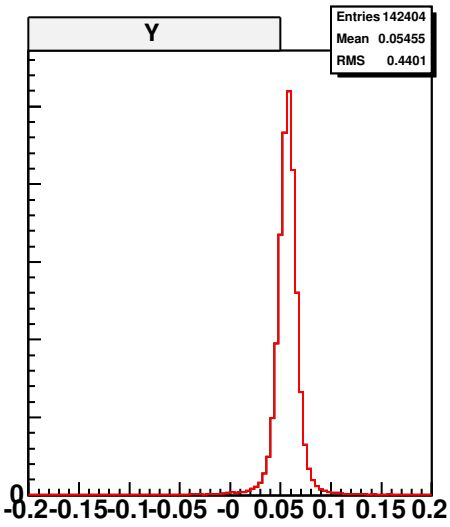

effvjetPt
Entries 441
Mean 32.51
RMS 18.67
1
0.8
0.6
0.4
0.2
0
0 10 20 30 40 50 60 70 80 90 100

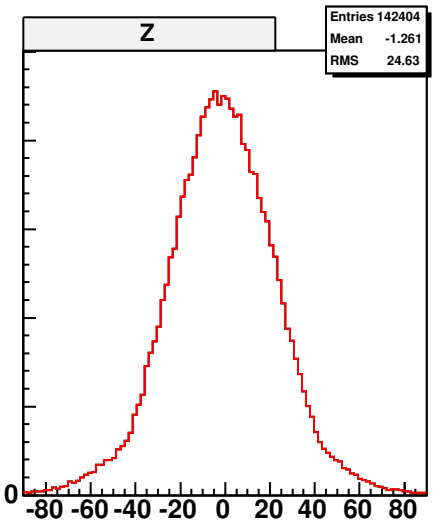


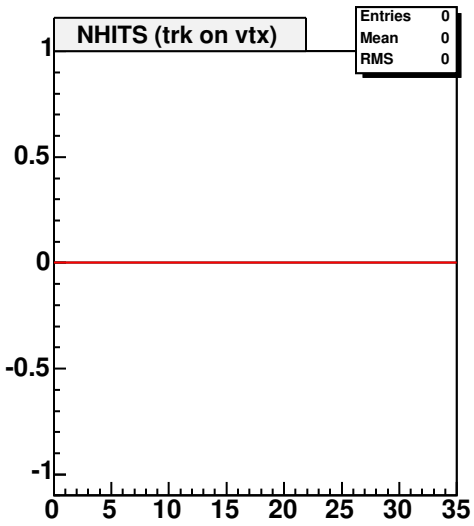


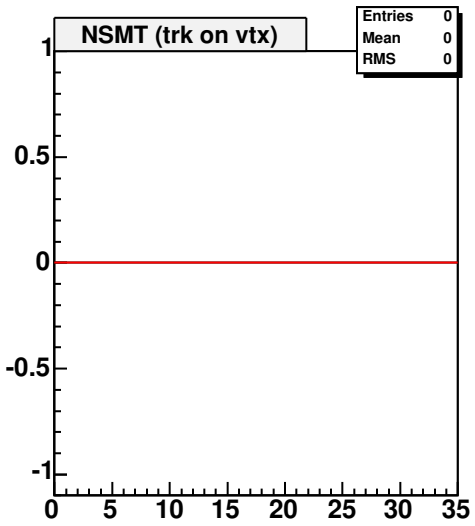


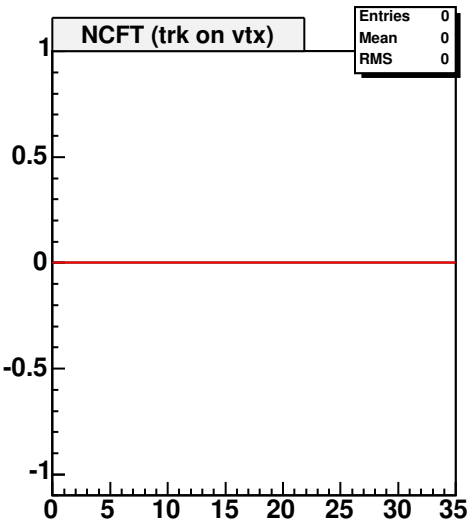




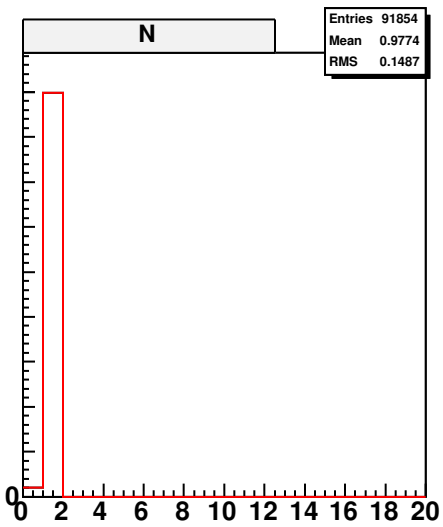


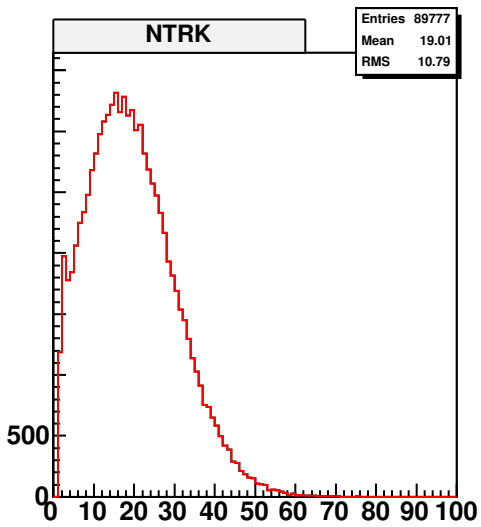


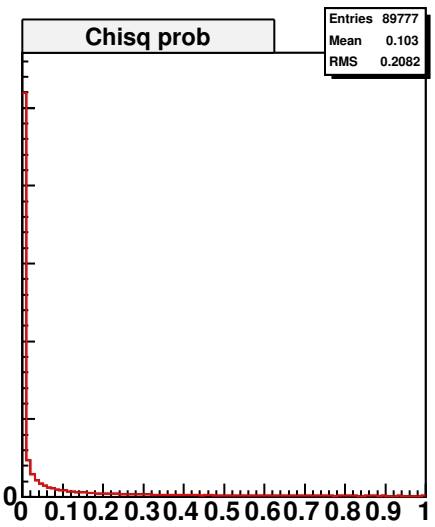


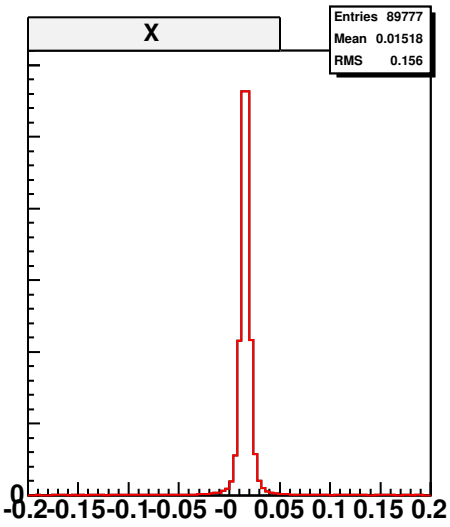


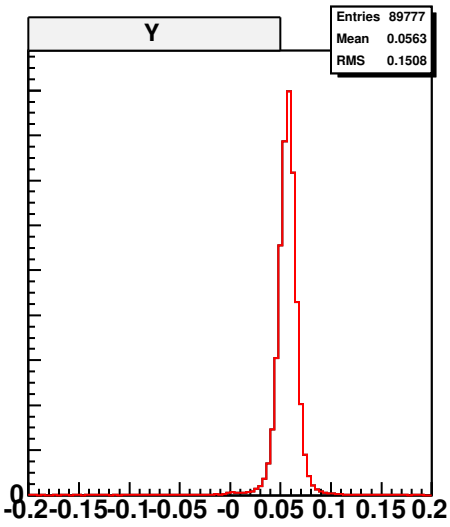
Vertices (Primary - all candidates)

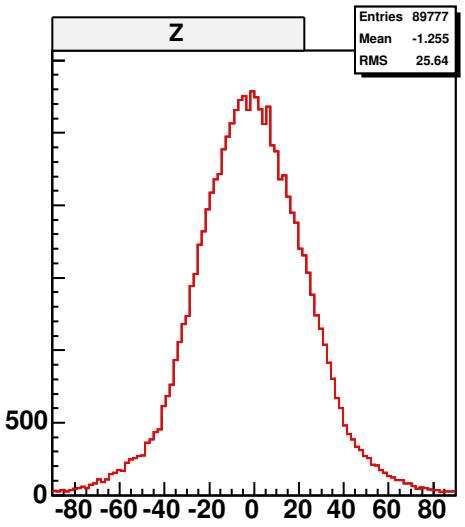


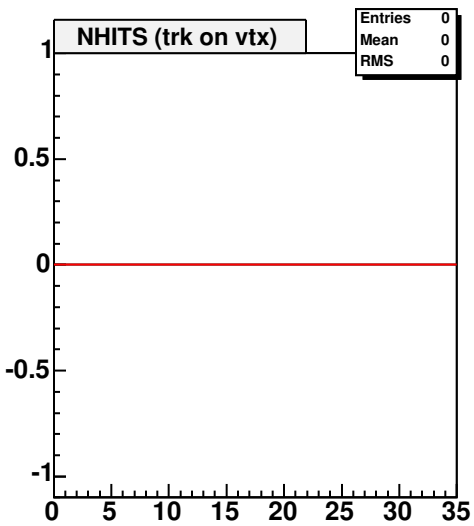


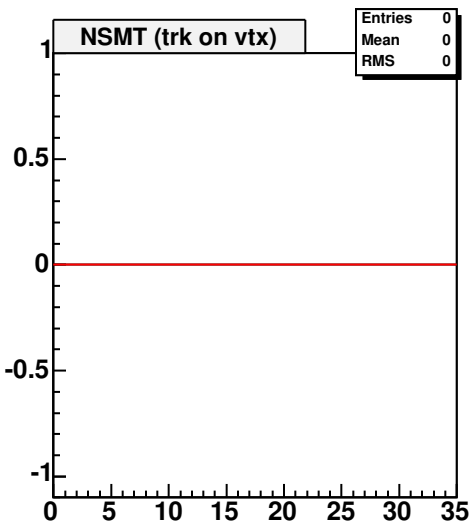


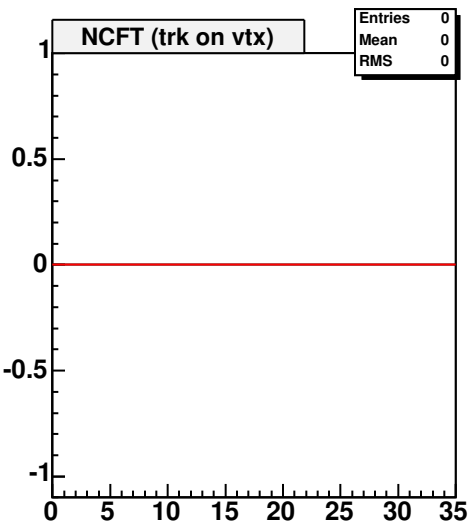




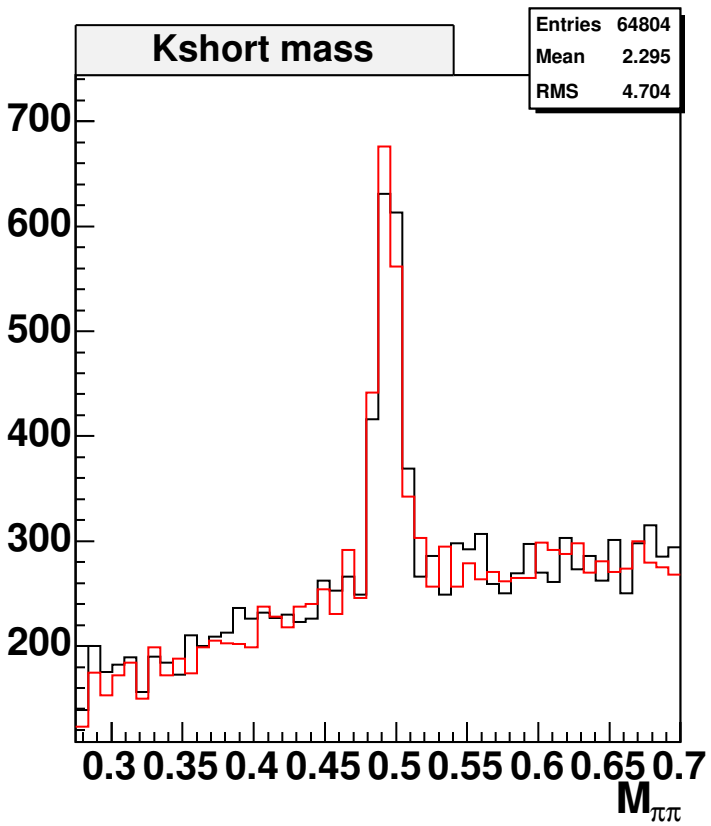


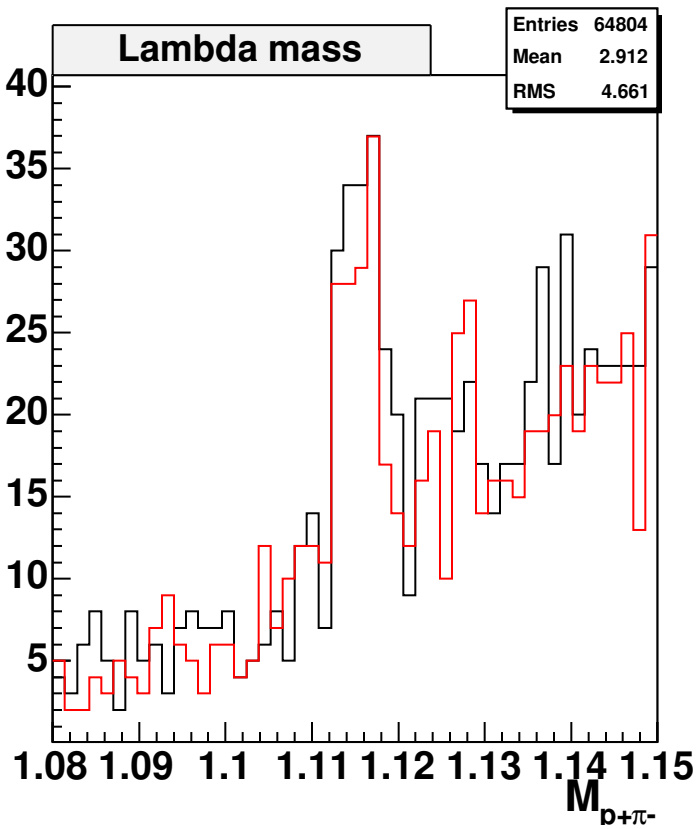


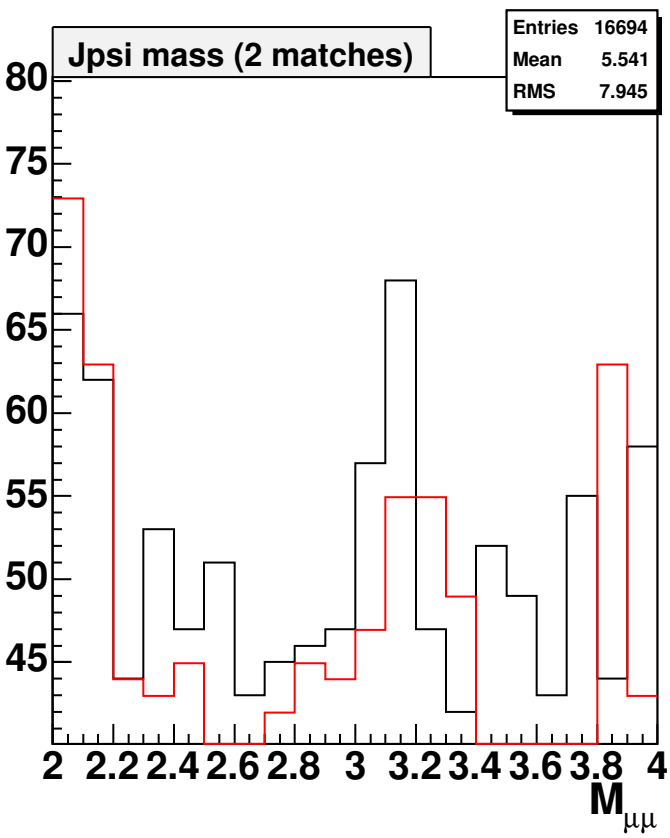


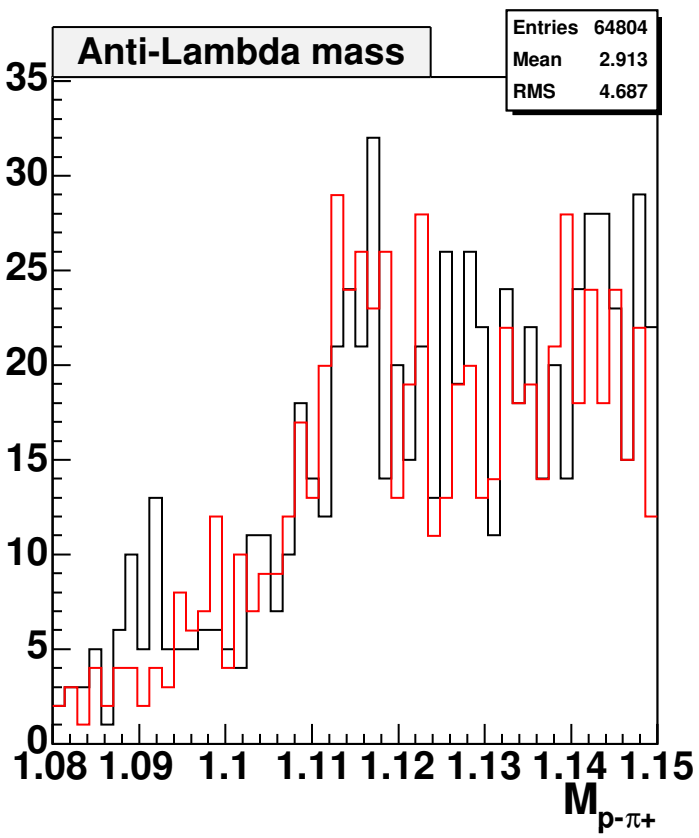


Vertices (Primary - best)

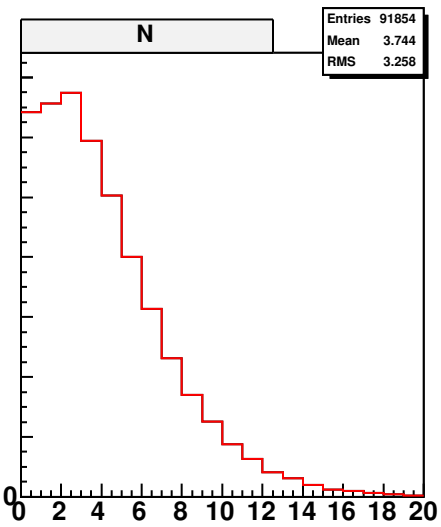

Kshort mass
Entries 64804
Mean 2.295
RMS 4.704
700
600
500
400
300
200
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

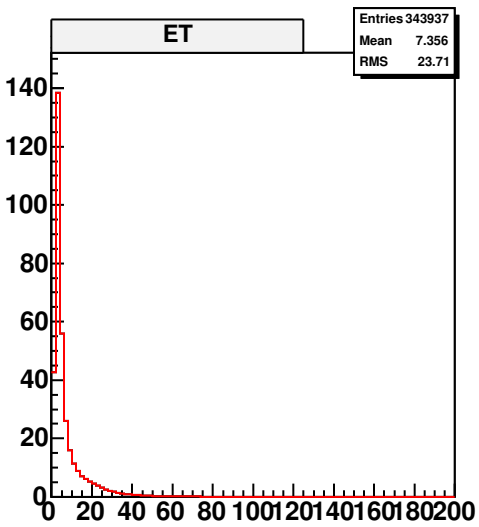

Lambda mass
Entries 64804
Mean 2.912
RMS 4.661
40
35
30
25
20
15
10
5
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

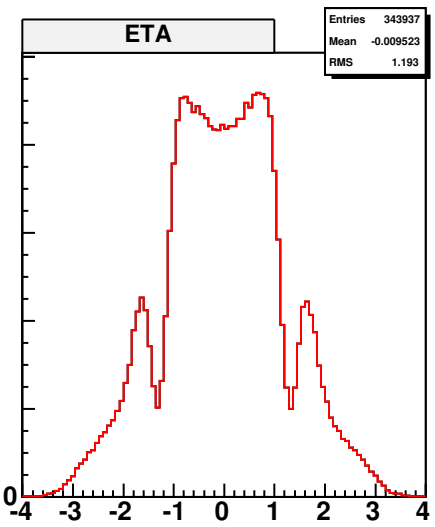

Jpsi mass (2 matches)
Entries 16694
Mean 5.541
RMS 7.945
80
75
70
65
60
55
50
45
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

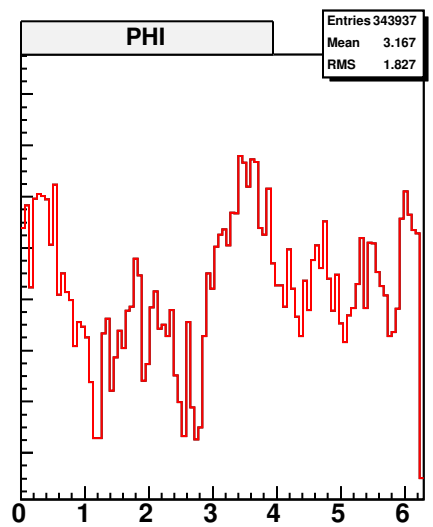

Anti-Lambda mass
Entries 64804
Mean 2.913
RMS 4.687
35
30
25
20
15
10
5
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

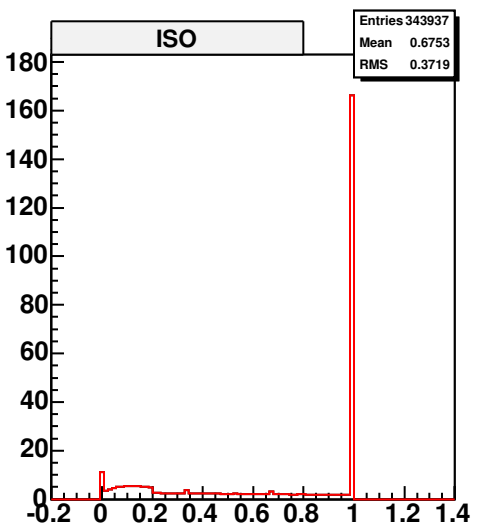
V0 (All)

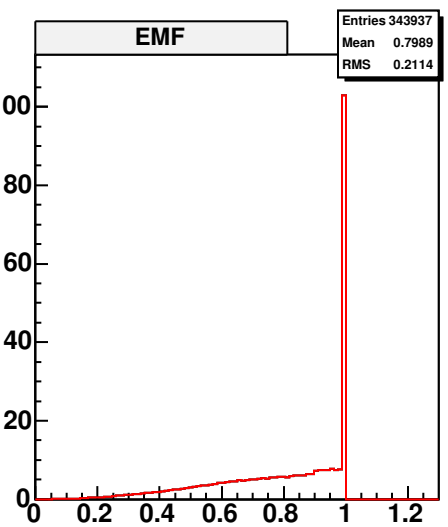


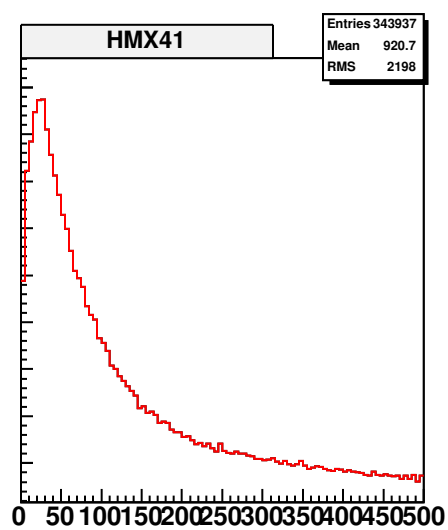


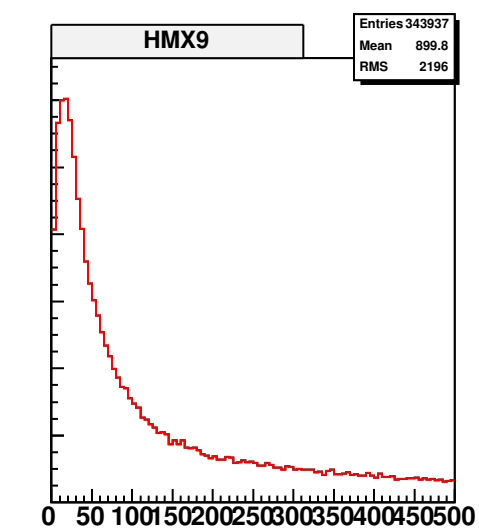


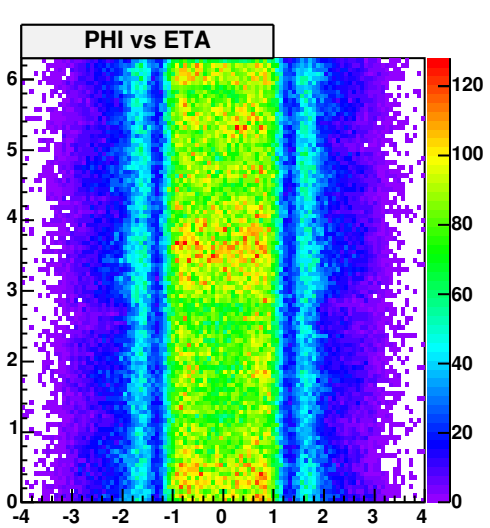




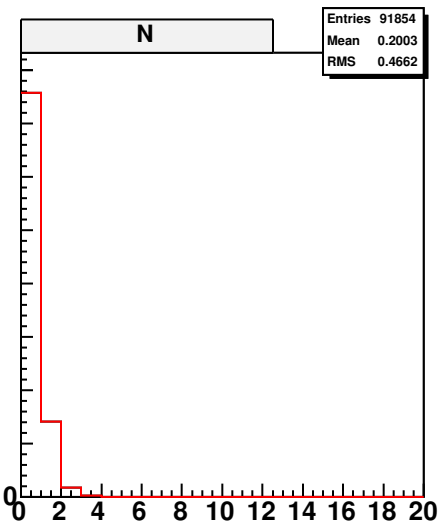


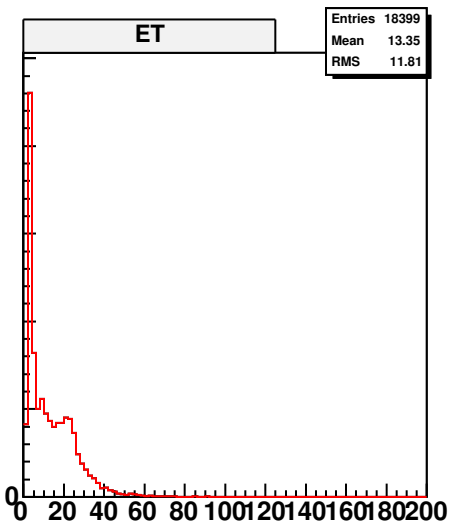


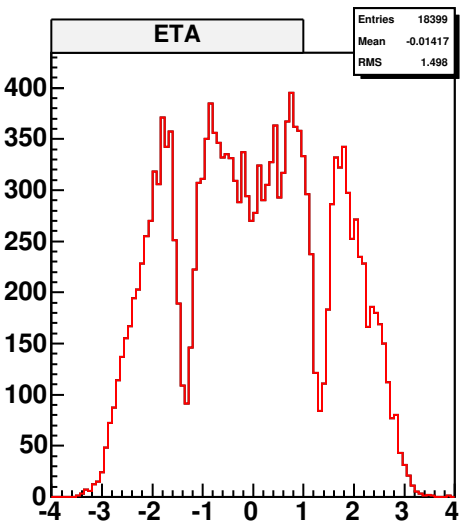


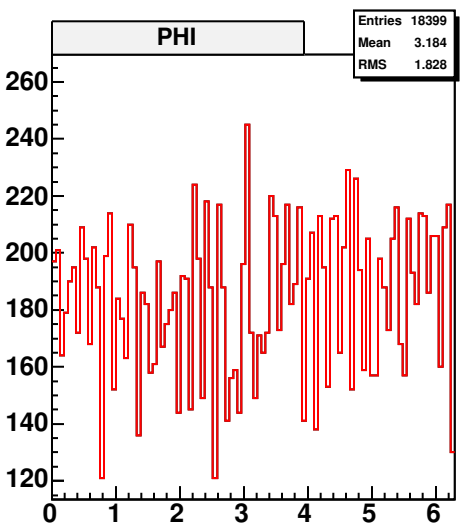


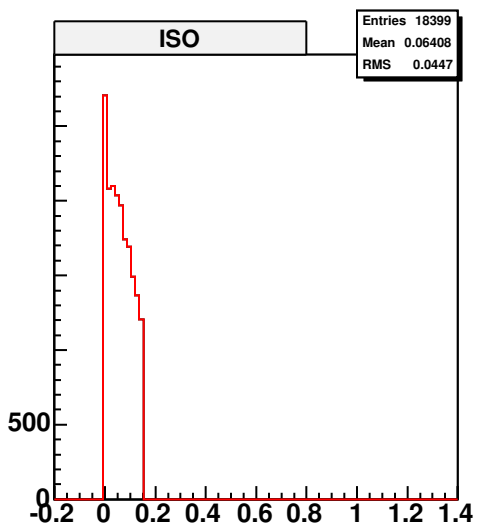
Electrons (SCONE All)

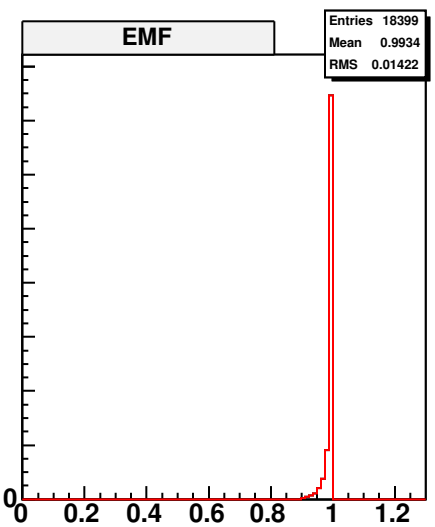


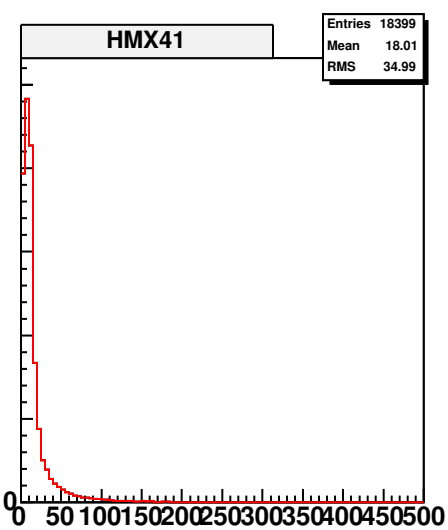


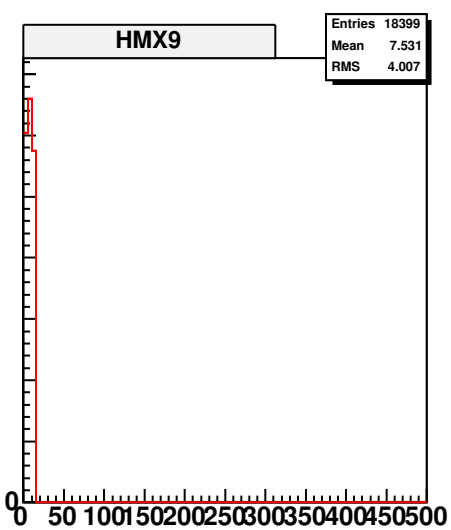


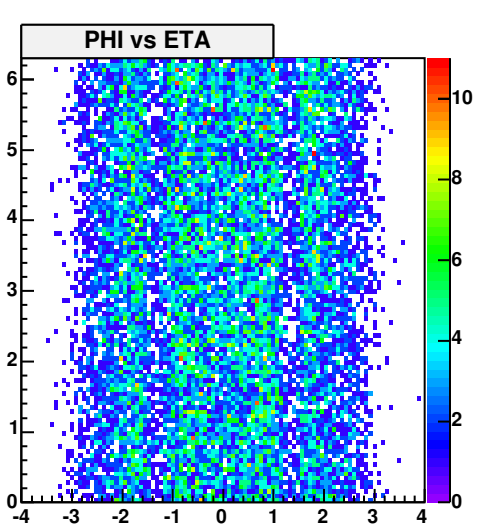




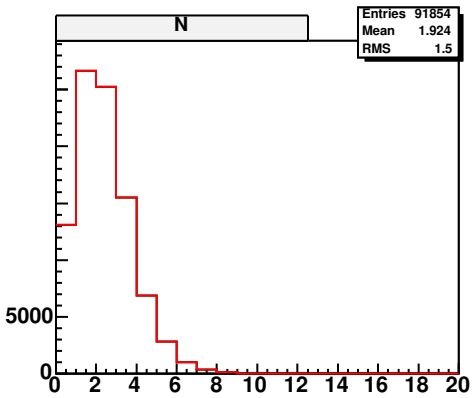


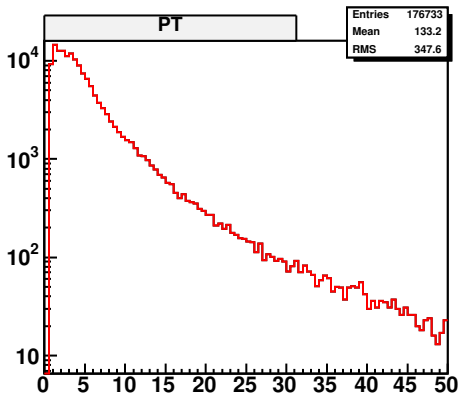


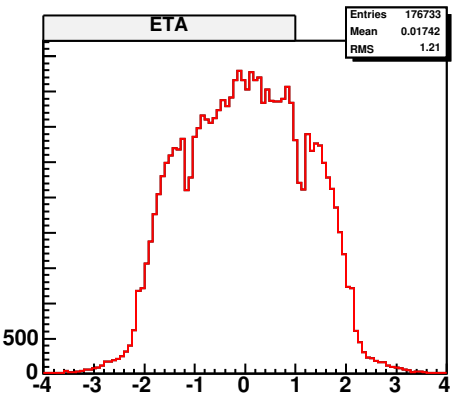


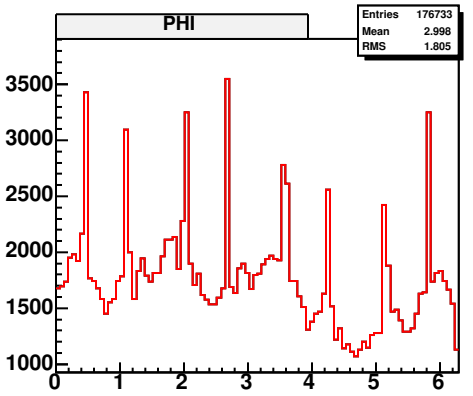


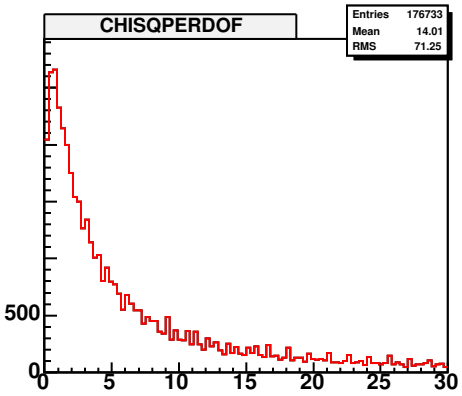
Electrons (SCONE Tight)

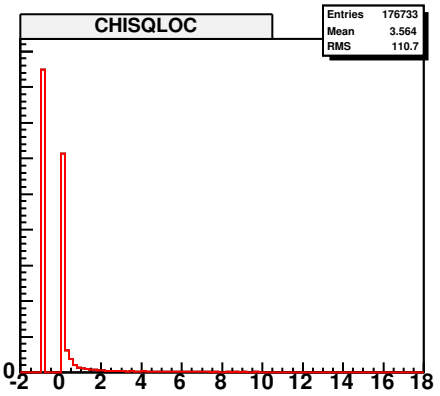

N
Entries 91854
Mean 1.924
RMS 1.5

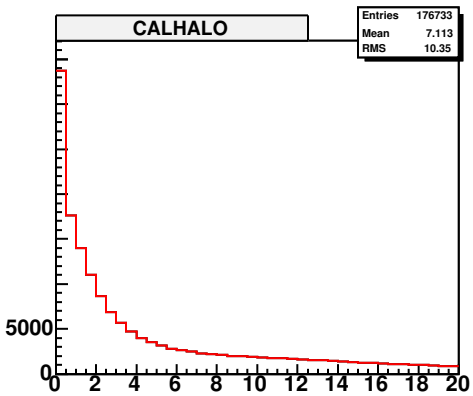

PT
Entries 176733
Mean 133.2
RMS 347.6

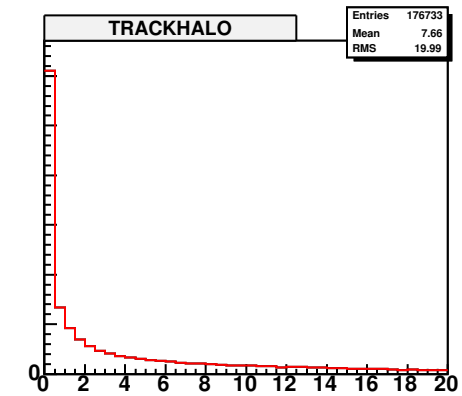

ETA
Entries 176733
Mean 0.01742
RMS 1.21

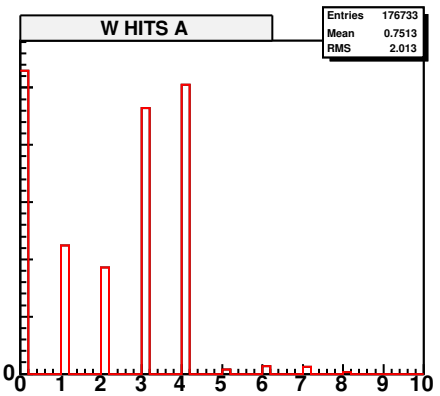

PHI
Entries 176733
Mean 2.998
RMS 1.805

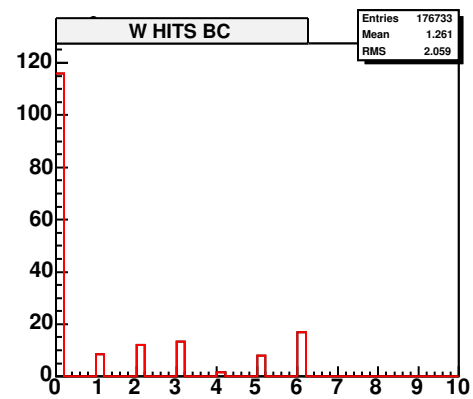

CHISQPERDOF
Entries 176733
Mean 14.01
RMS 71.25

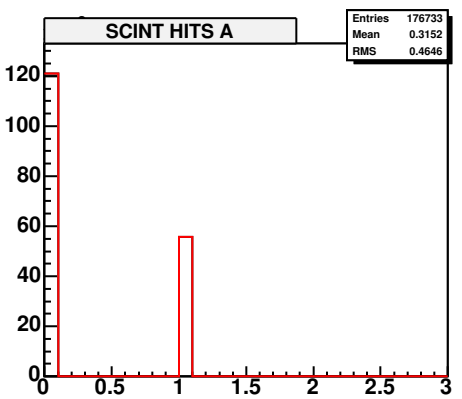

CHISQLOC
Entries 176733
Mean 3.564
RMS 110.7

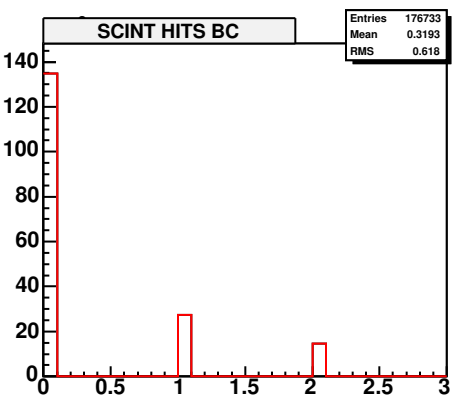

CALHALO
Entries 176733
Mean 7.113
RMS 10.35


TRACKHALO
Entries 176733
Mean 7.66
RMS 19.99

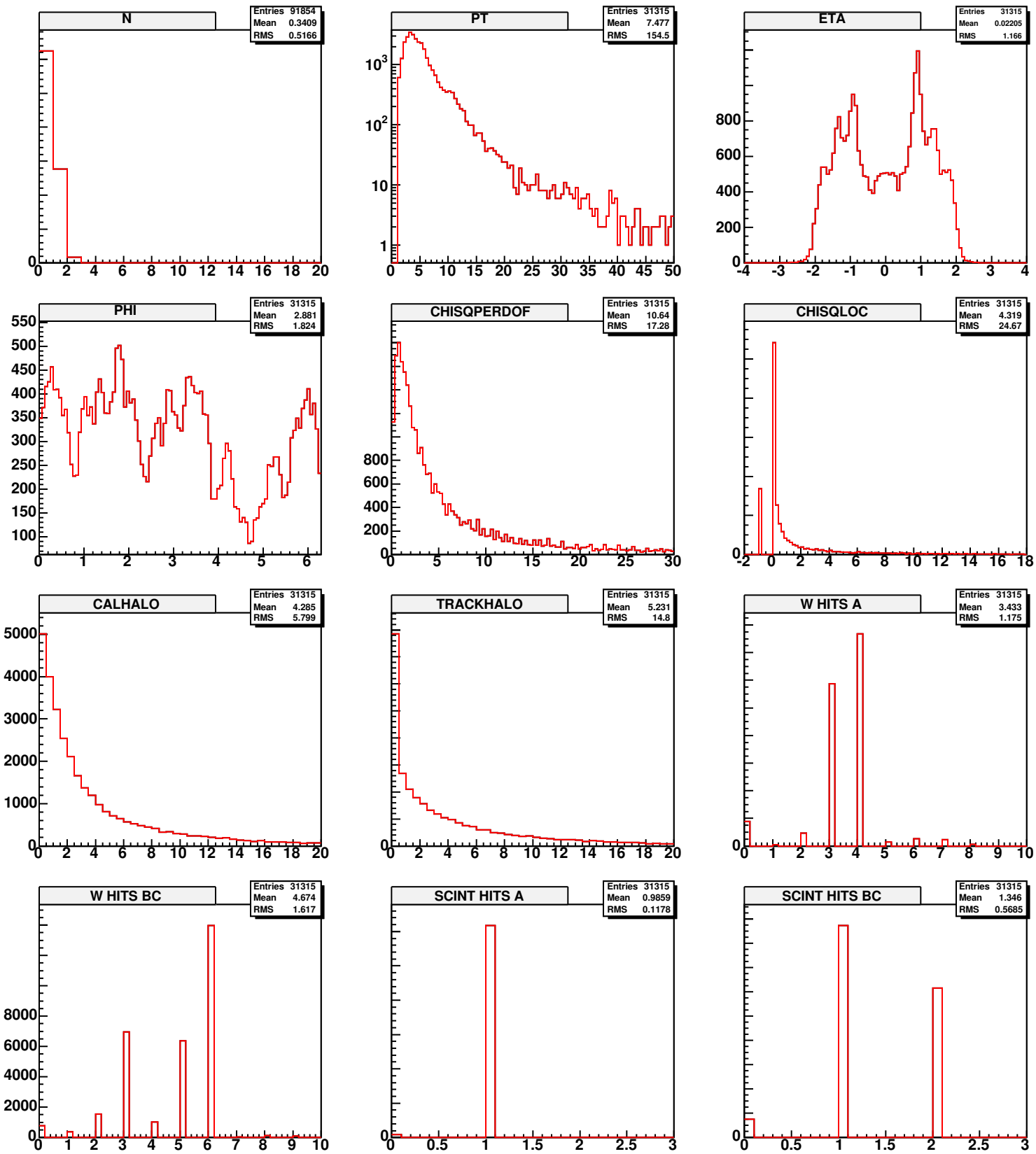

W HITS A
Entries 176733
Mean 0.7513
RMS 2.013


W HITS BC
Entries 176733
Mean 1.261
RMS 2.059

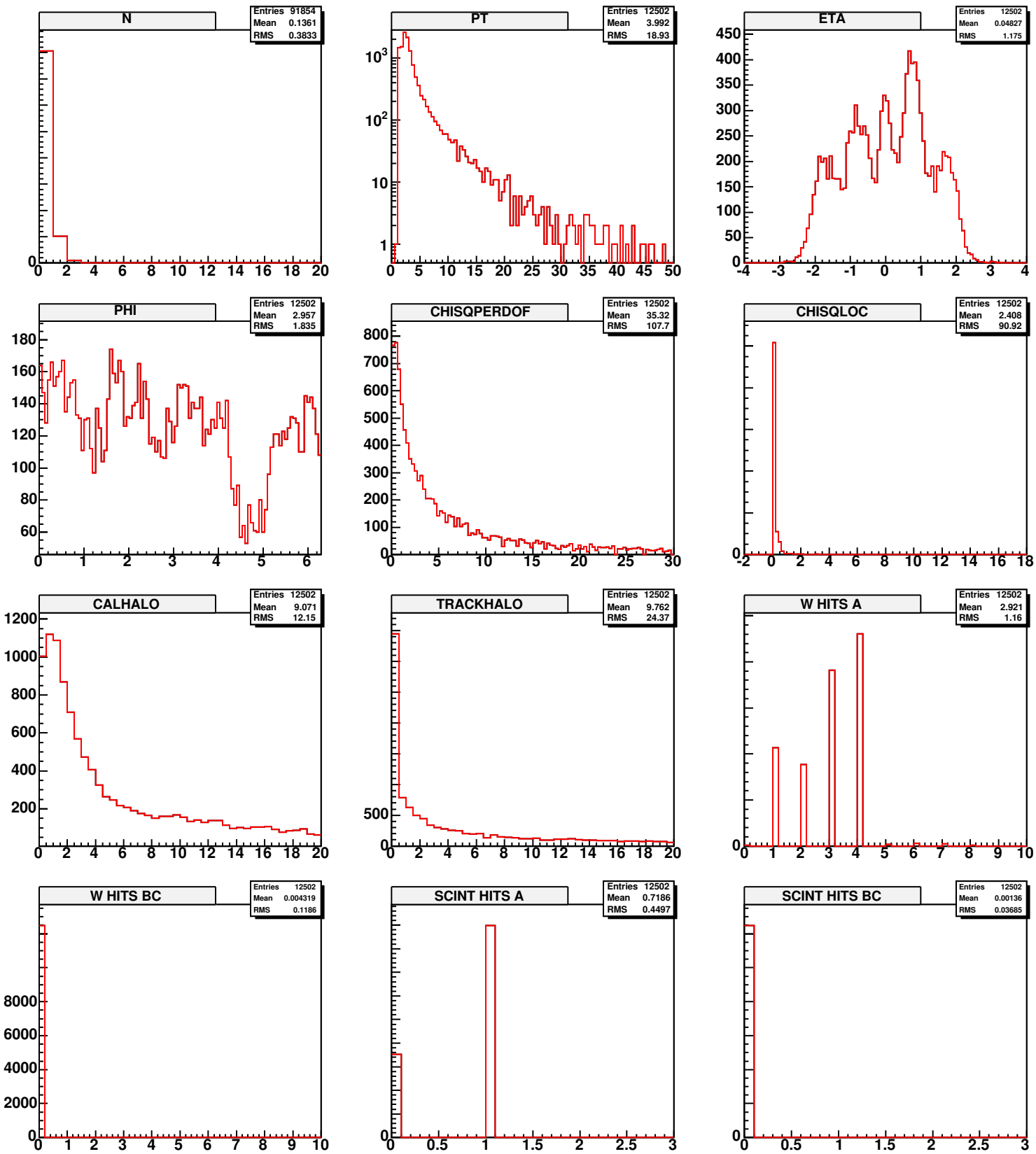

SCINT HITS A
Entries 176733
Mean 0.3152
RMS 0.4646


SCINT HITS BC
Entries 176733
Mean 0.3193
RMS 0.618

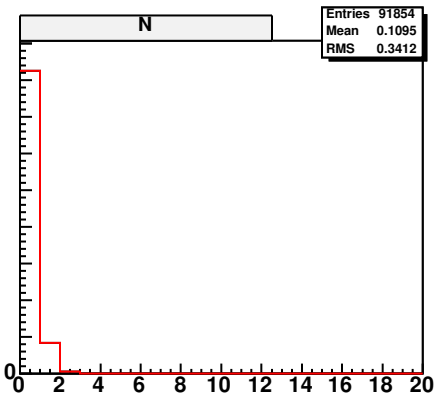
Muons (All)

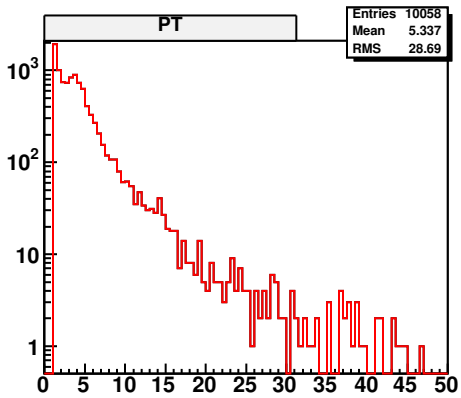


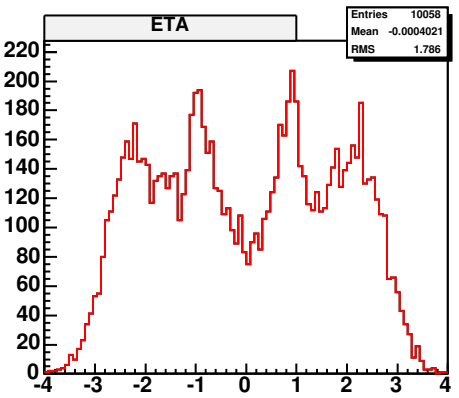
Muons (Matched)

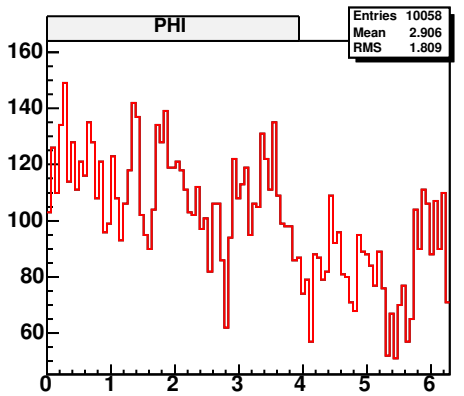

N
Entries 91854
Mean 0.1361
RMS 0.3833
PT
Entries 12502
Mean 3.992
RMS 18.93
ETA
Entries 12502
Mean 0.04827
RMS 1.175
PHI
Entries 12502
Mean 2.957
RMS 1.835
CHISQPERDOF
Entries 12502
Mean 35.32
RMS 107.7
CHISQLOC
Entries 12502
Mean 2.408
RMS 90.92
CALHALO
Entries 12502
Mean 9.071
RMS 12.15
TRACKHALO
Entries 12502
Mean 9.762
RMS 24.37
W HITS A
Entries 12502
Mean 2.921
RMS 1.16
W HITS BC
Entries 12502
Mean 0.004319
RMS 0.1186
SCINT HITS A
Entries 12502
Mean 0.7186
RMS 0.4497
SCINT HITS BC
Entries 12502
Mean 0.00136
RMS 0.03685

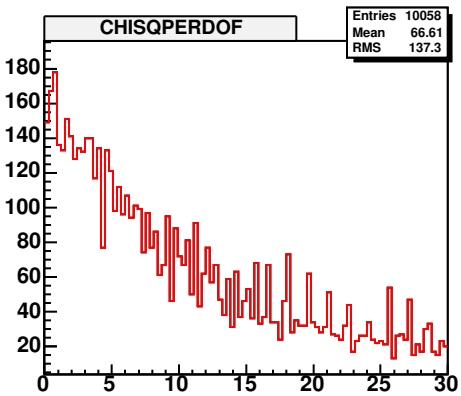
Muons (Astub)

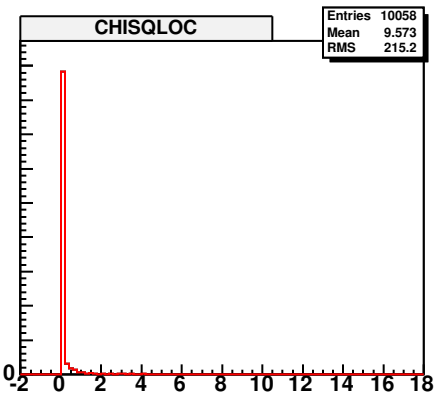


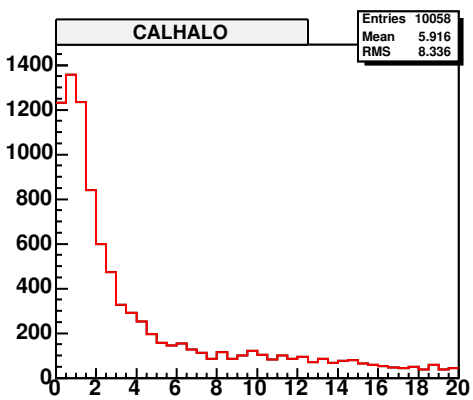


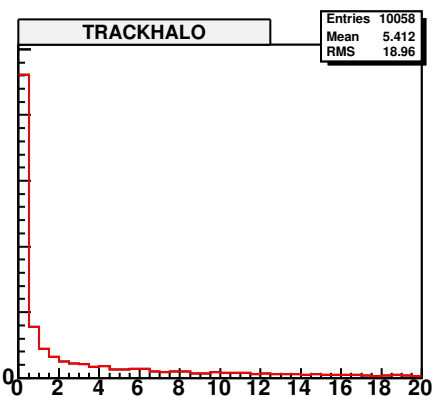


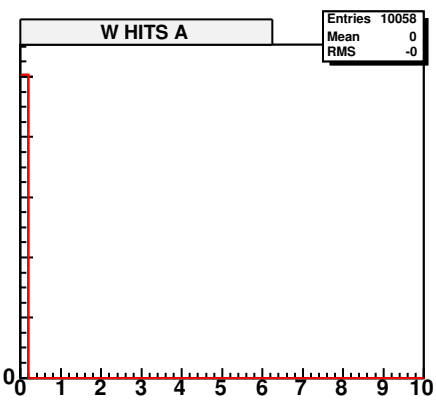


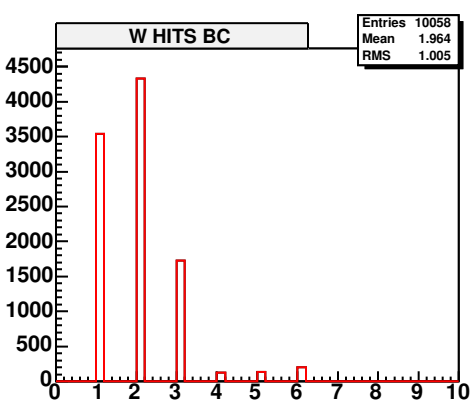


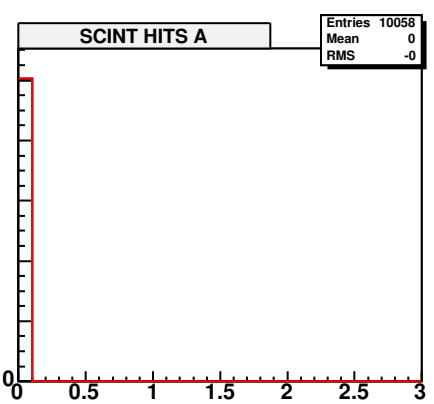


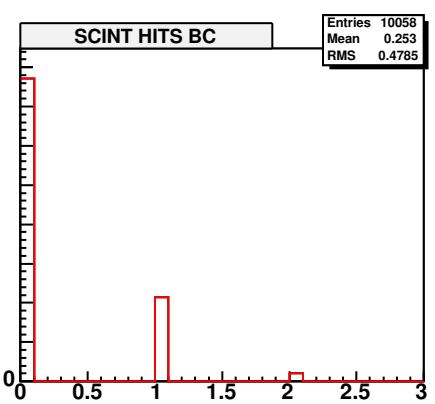




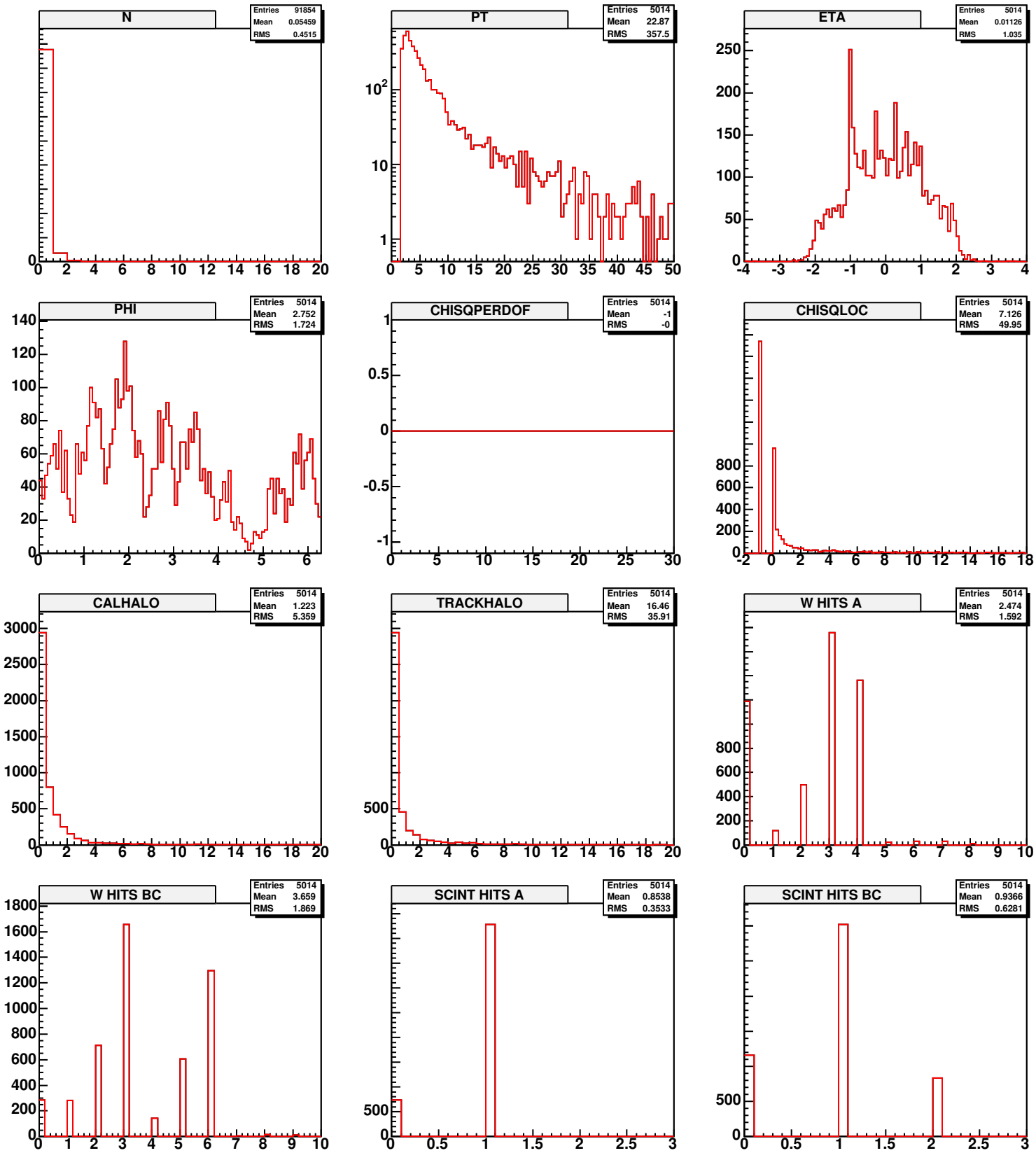




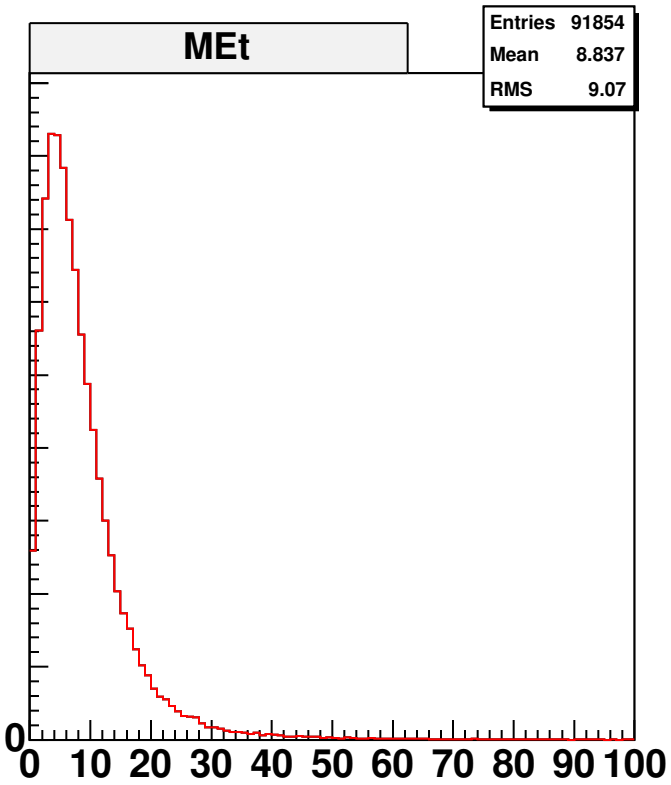


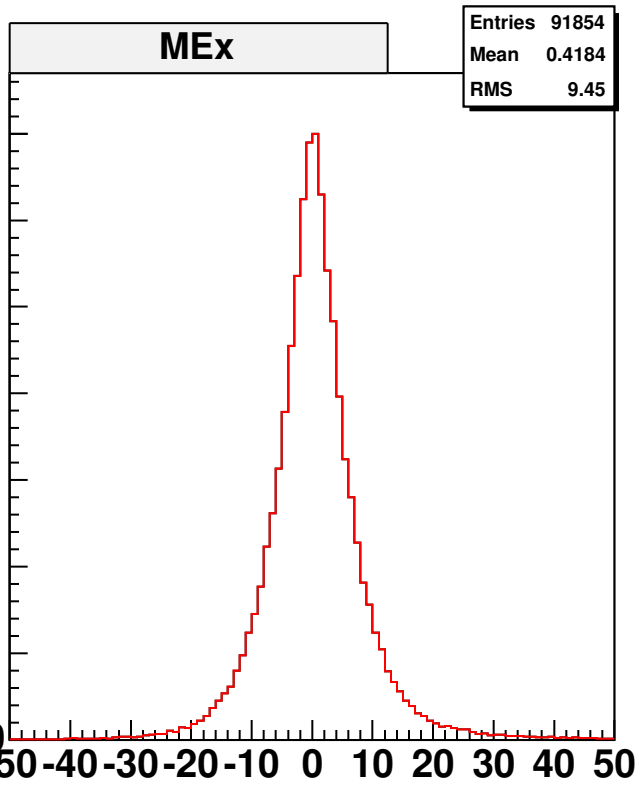


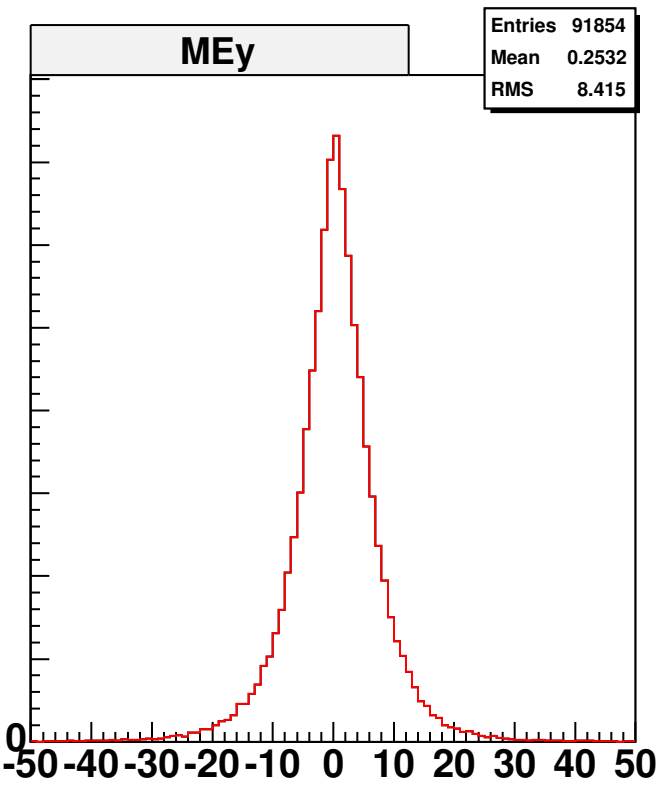
Muons (BCstub)



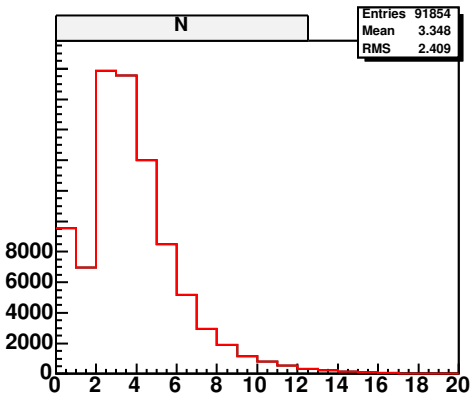
Muons (Unmatched)

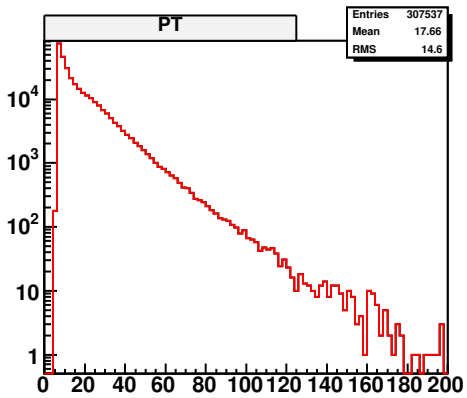

MEt
Entries 91854
Mean 8.837
RMS 9.07
0
0 10 20 30 40 50 60 70 80 90 100

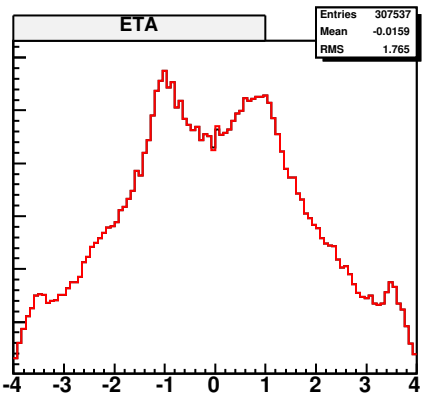

MEx
Entries 91854
Mean 0.4184
RMS 9.45
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

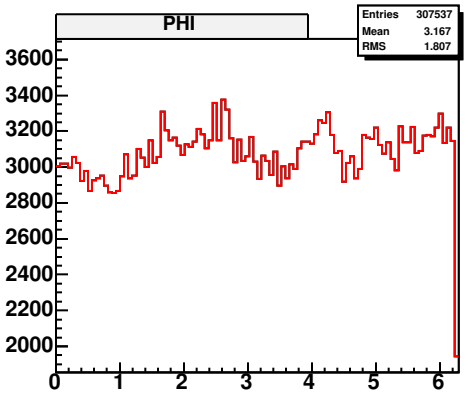

MEy
Entries 91854
Mean 0.2532
RMS 8.415
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

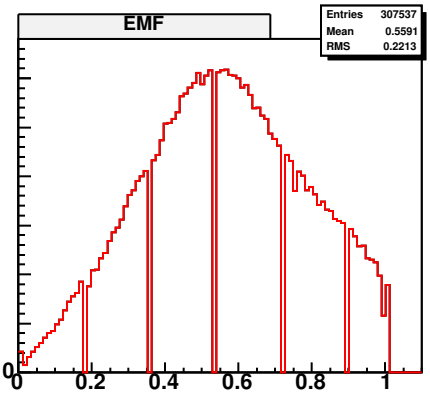
Met (No cuts)

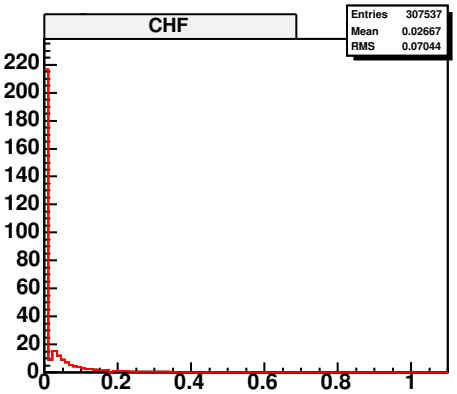


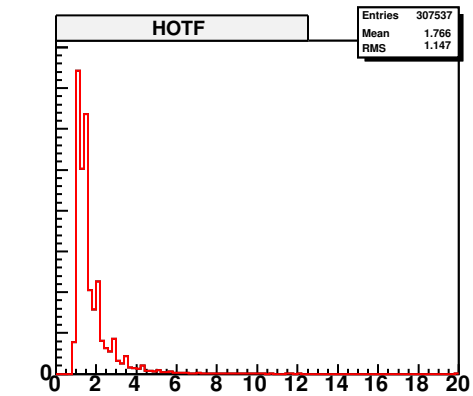


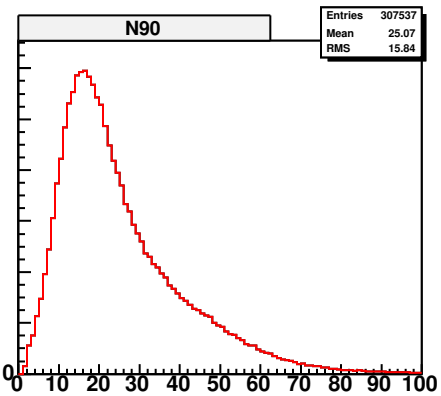


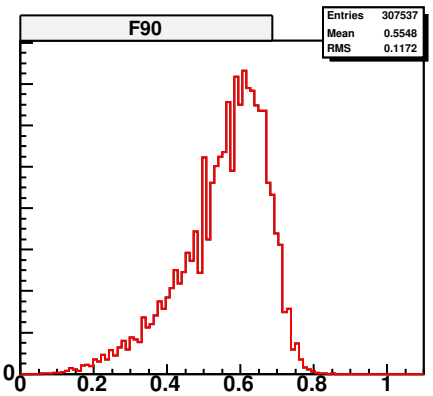


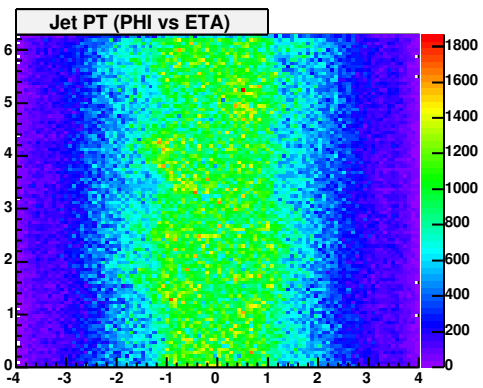




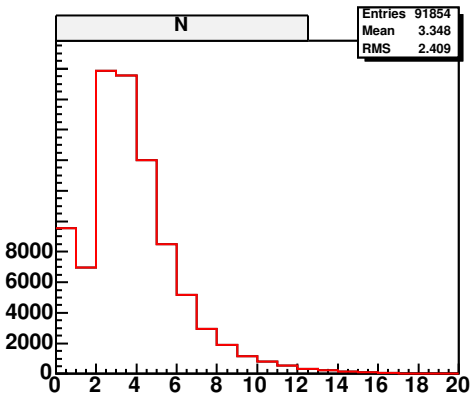


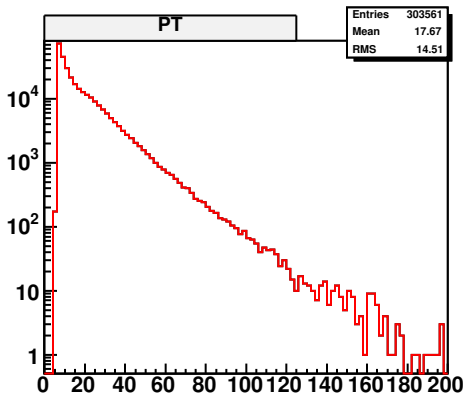


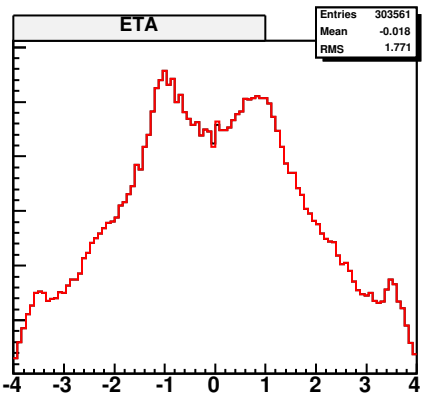


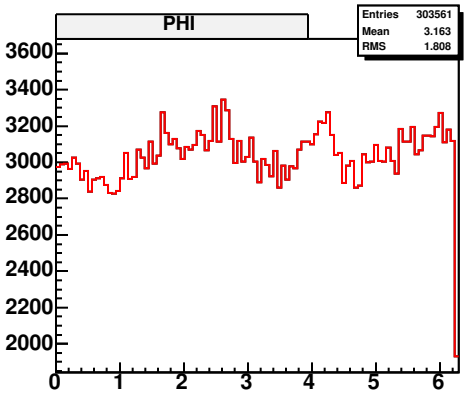


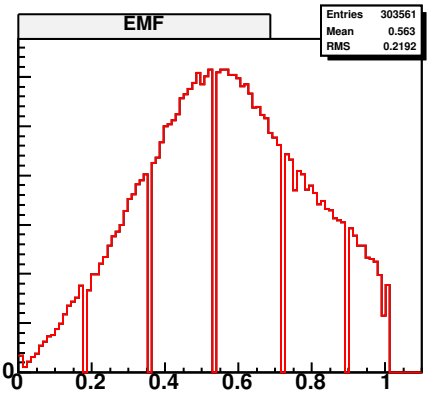
Jets (Cone R 0.7 (no cuts))

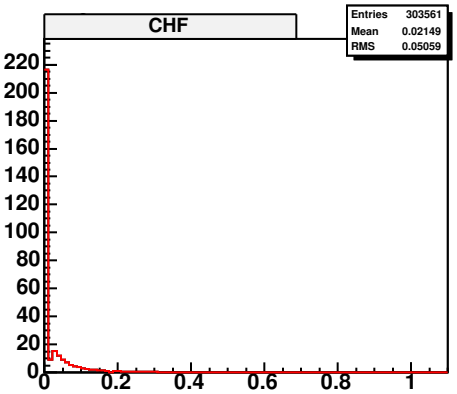


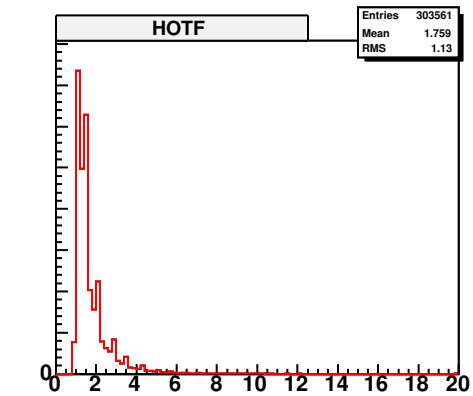


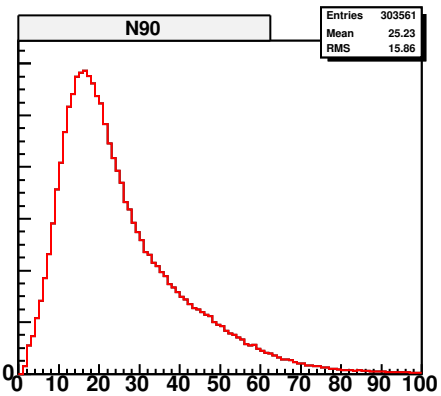


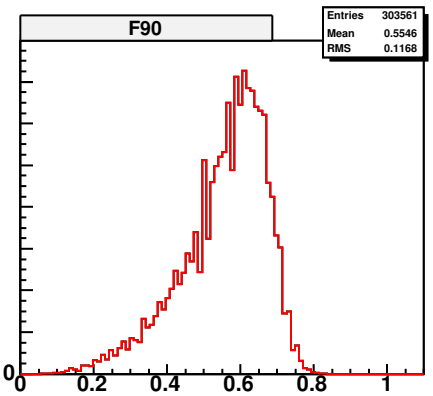


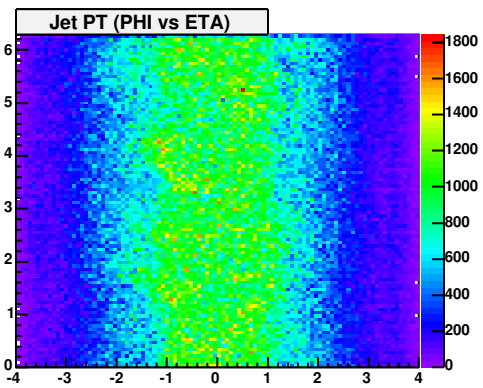




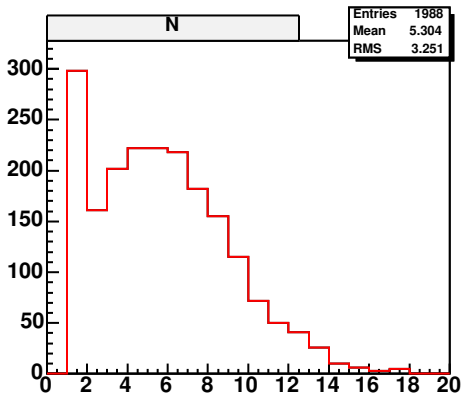


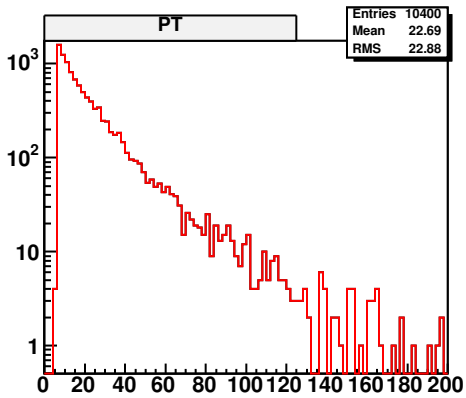


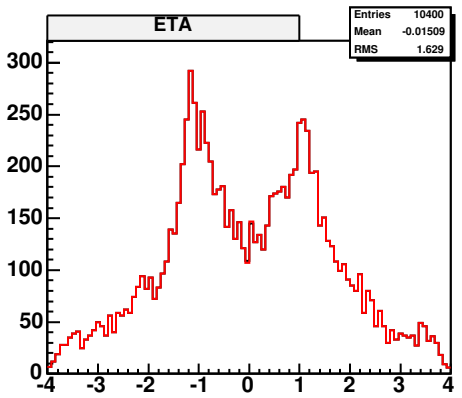


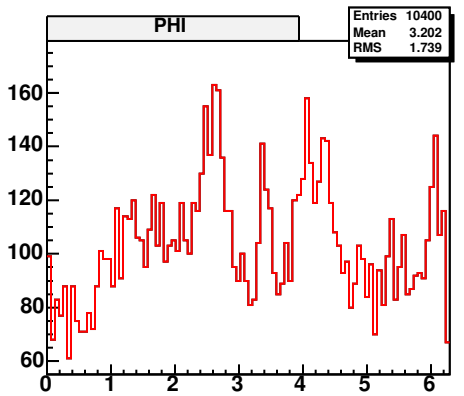


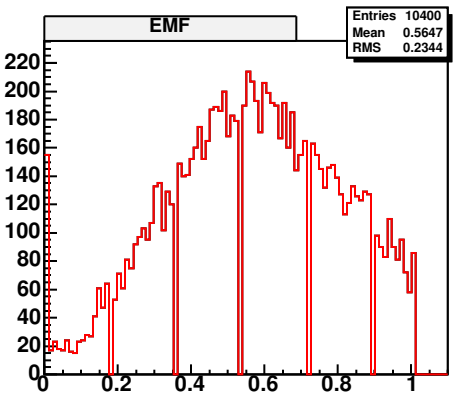
Jets (Cone R 0.7 (standard cuts))

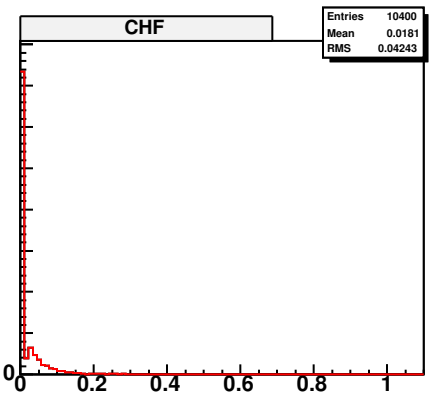


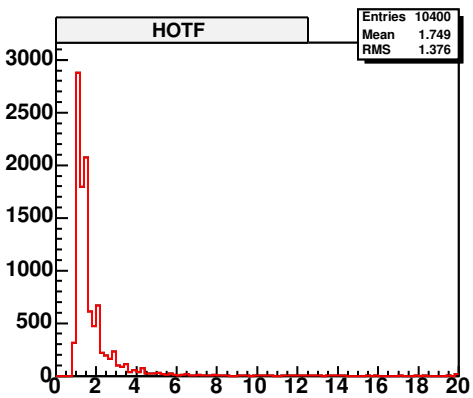


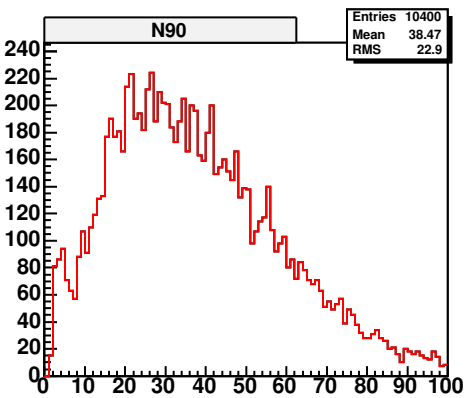


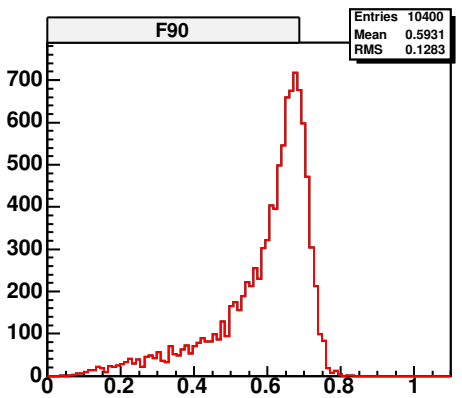


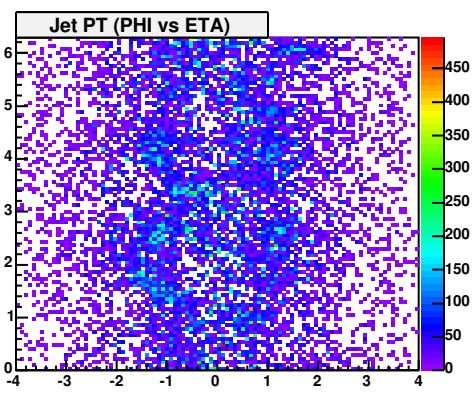




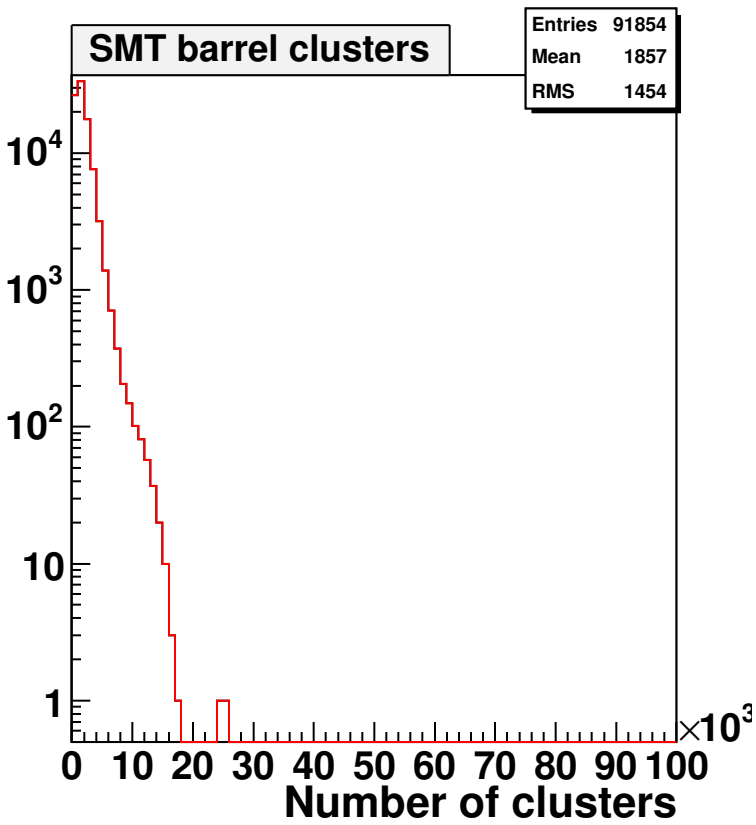


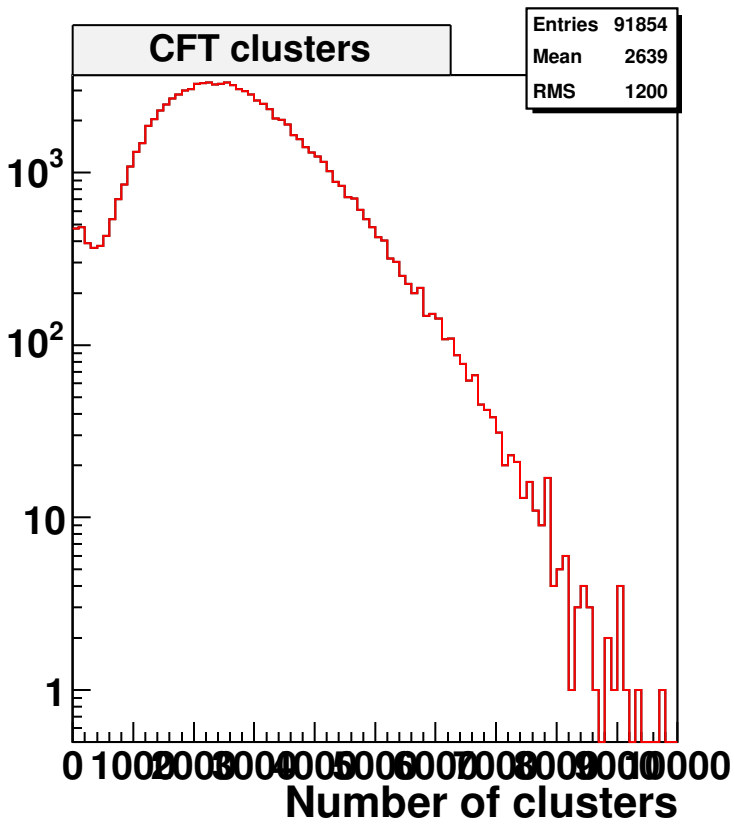


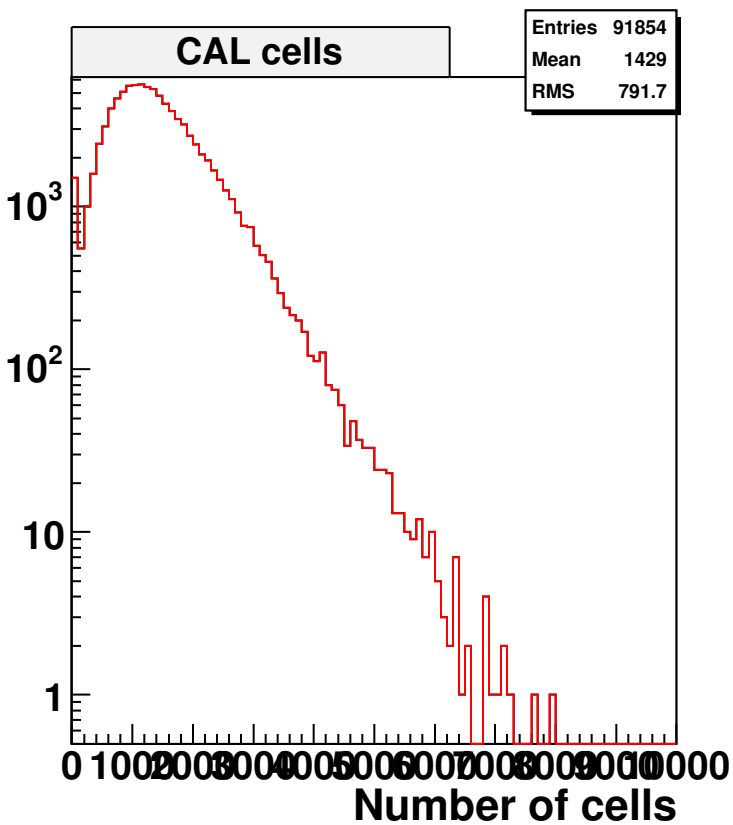


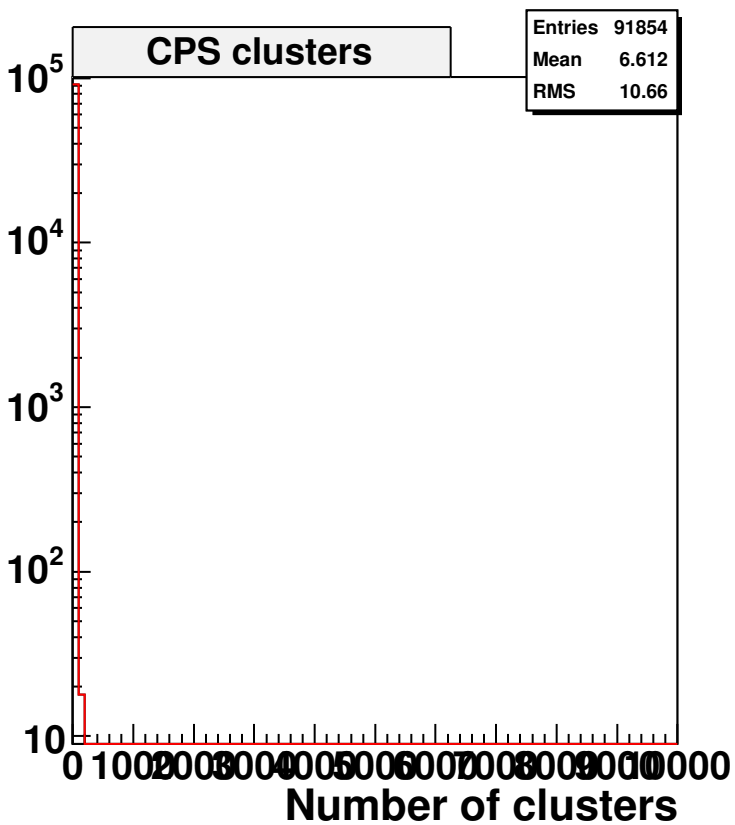


Jets (Cone R 0.7 (standard cuts, MET>30))

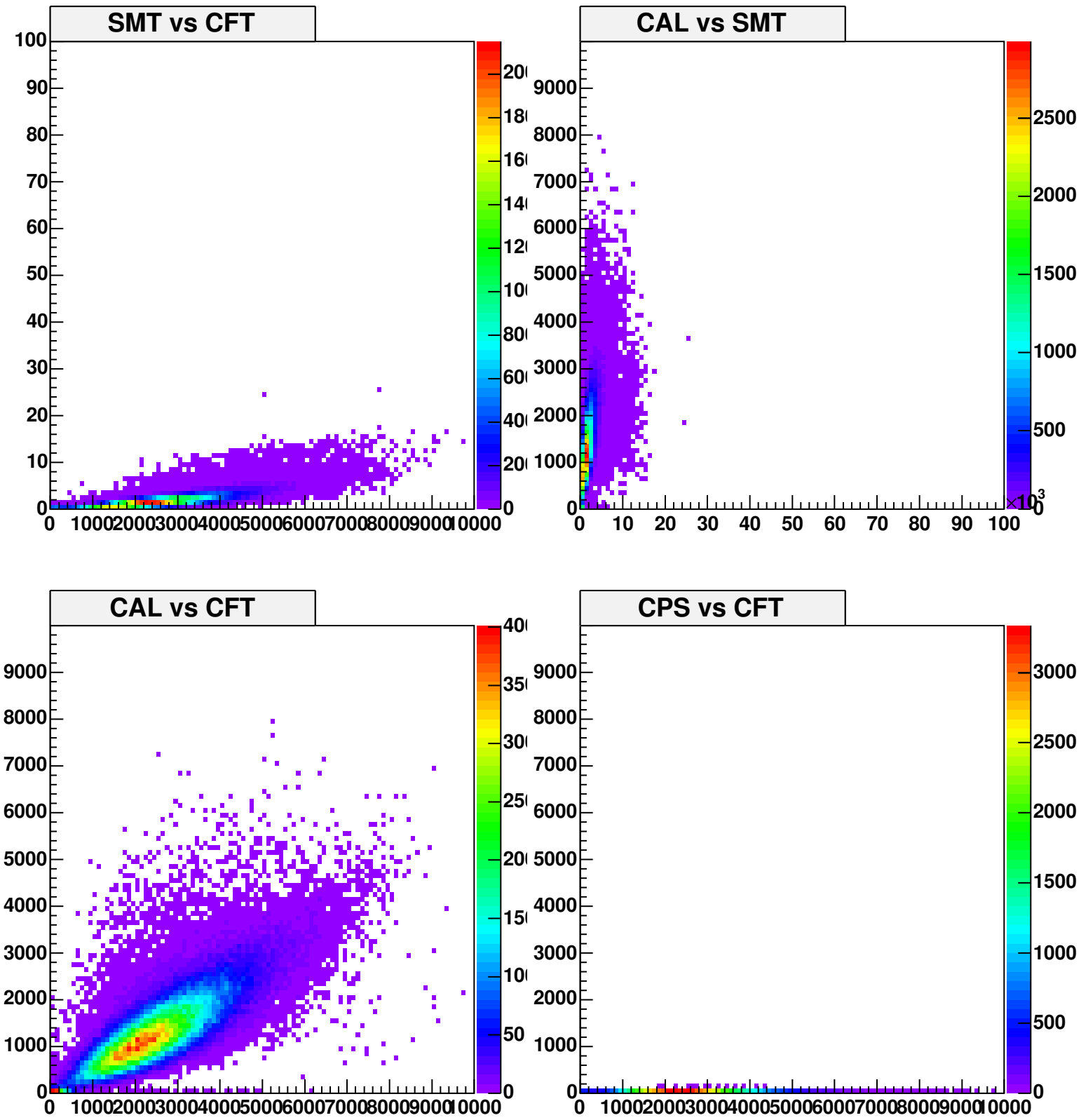


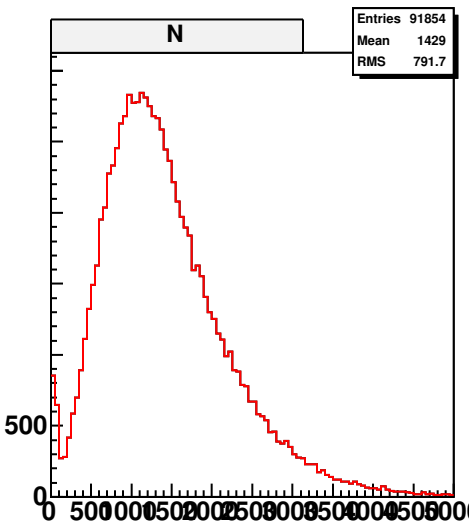


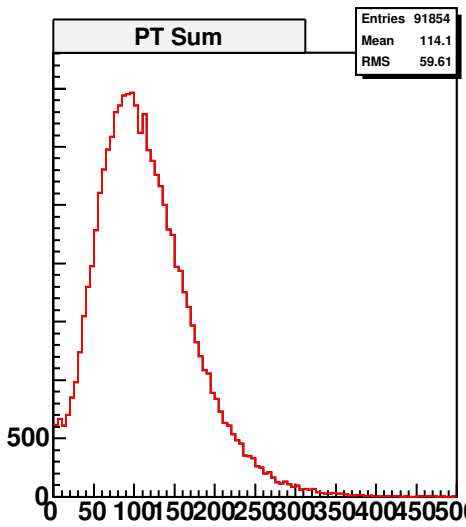


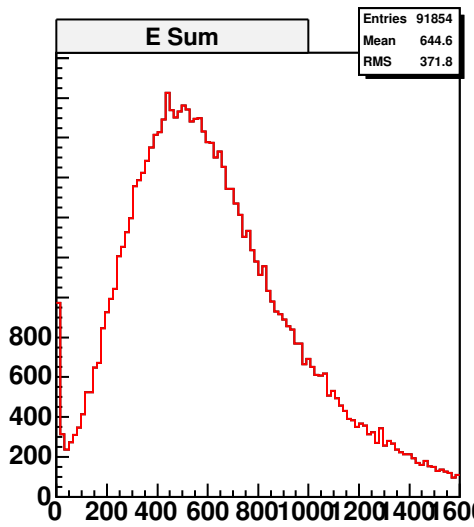


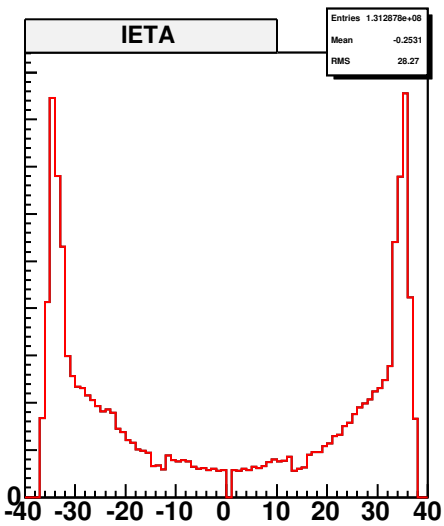
Detector Occupancy (Detector)

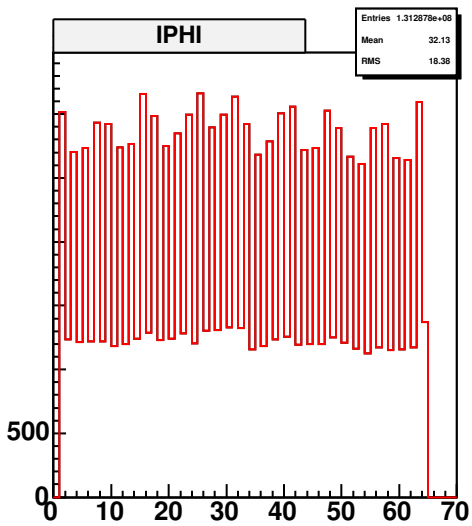

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

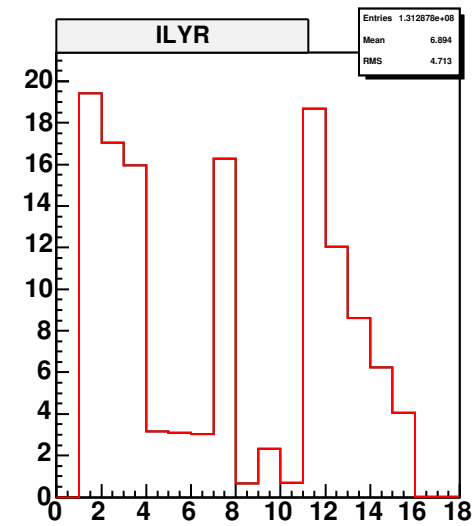


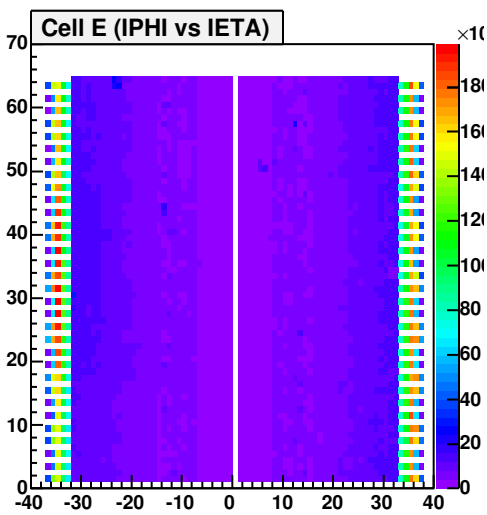


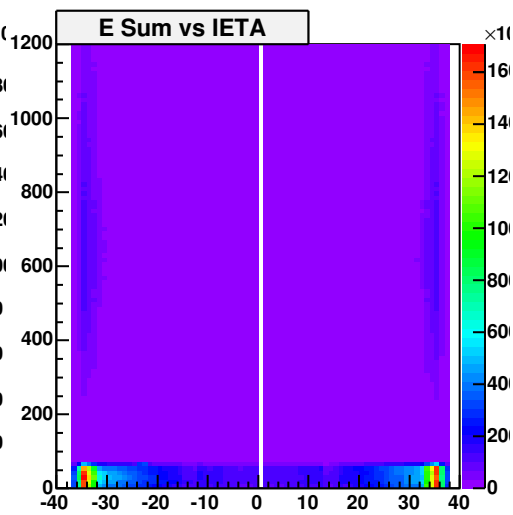


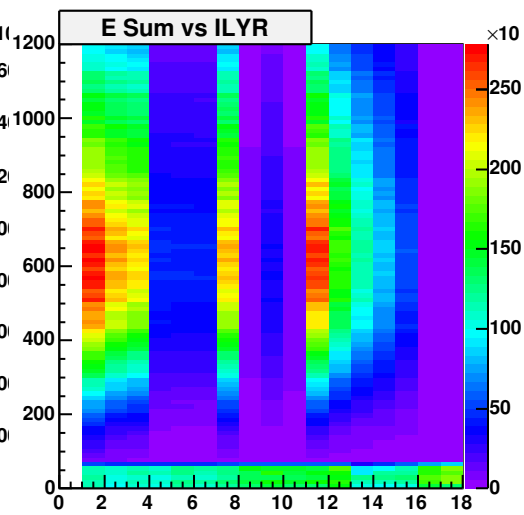




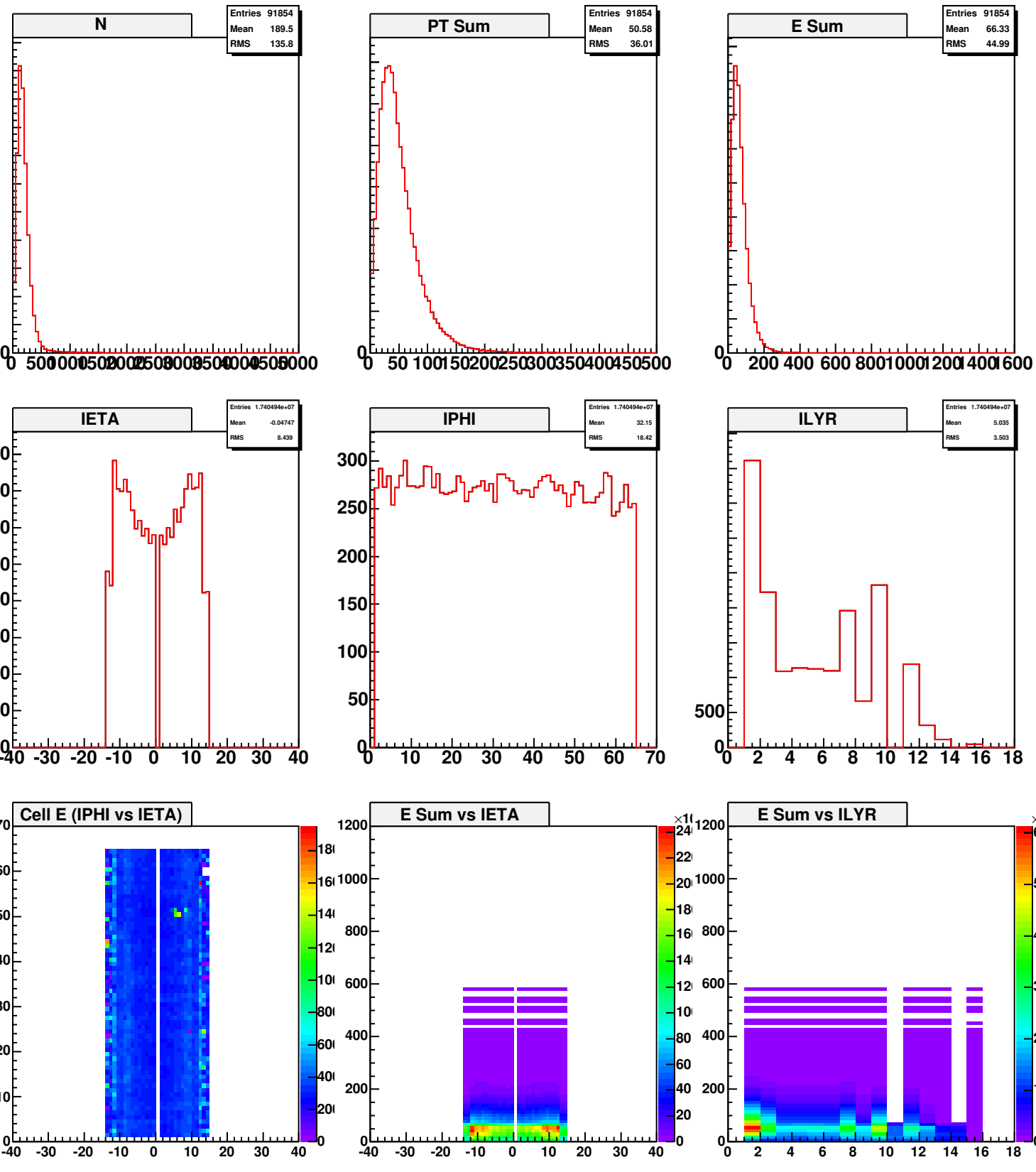




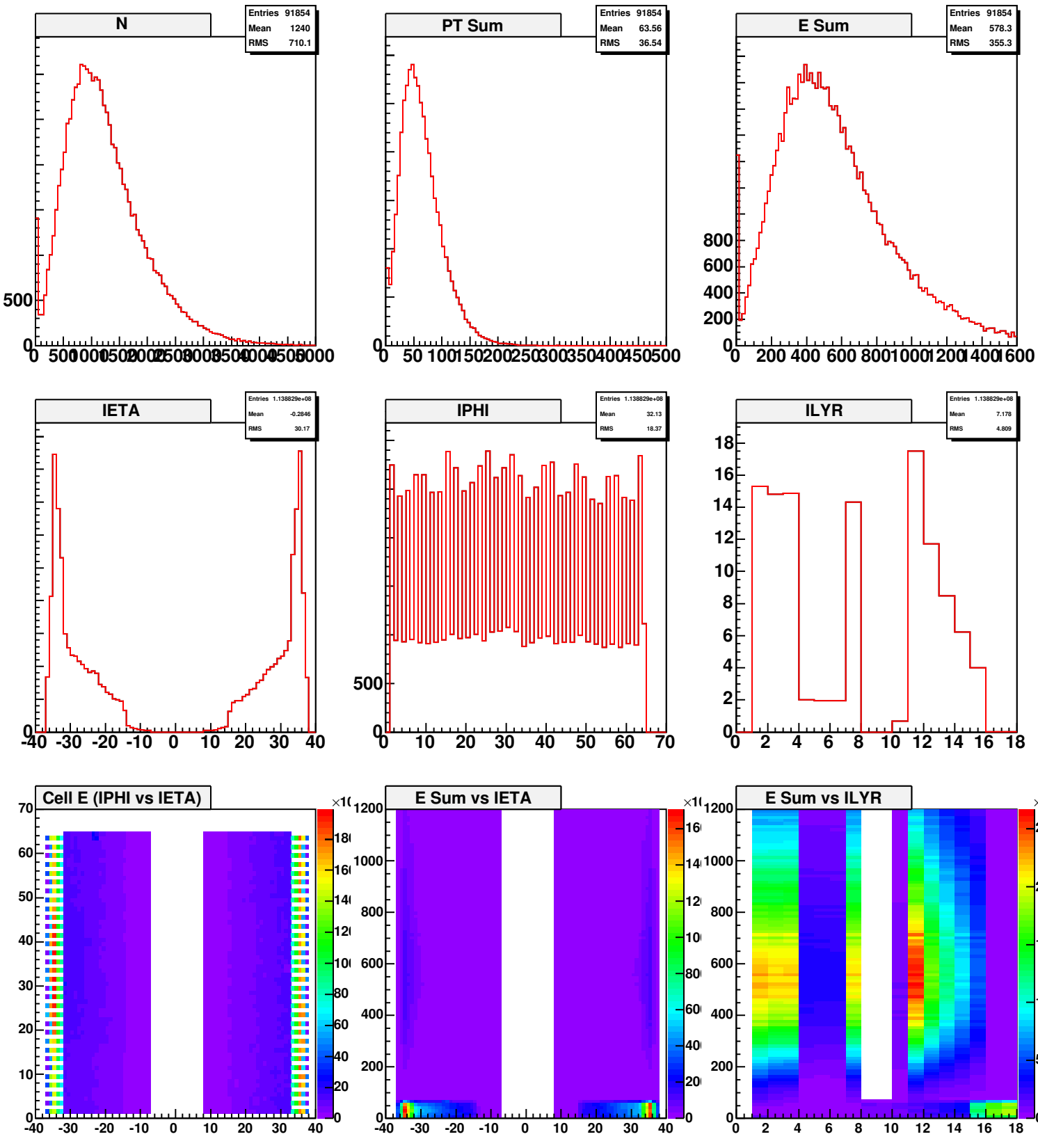




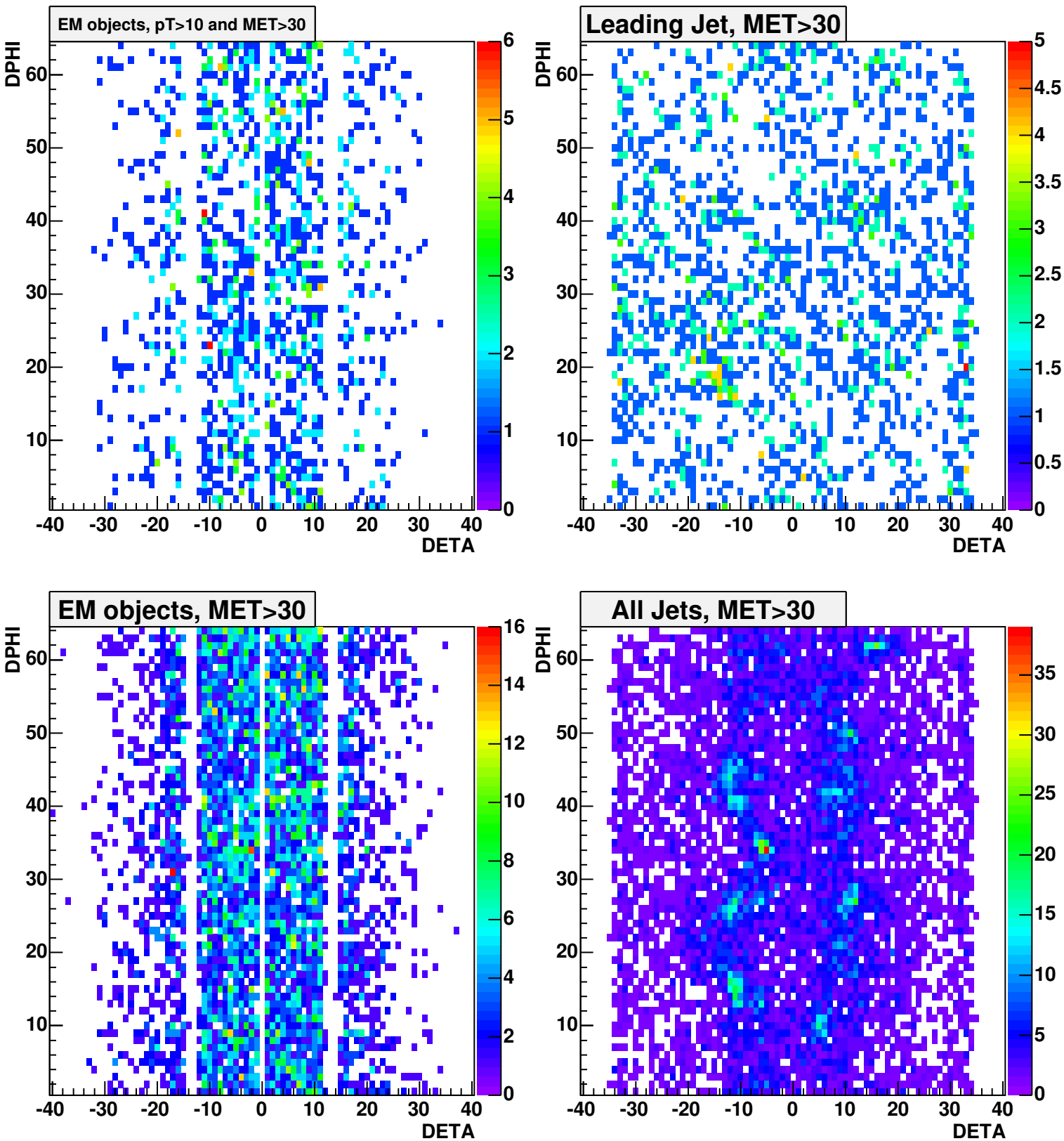
Calorimeter (All cells)

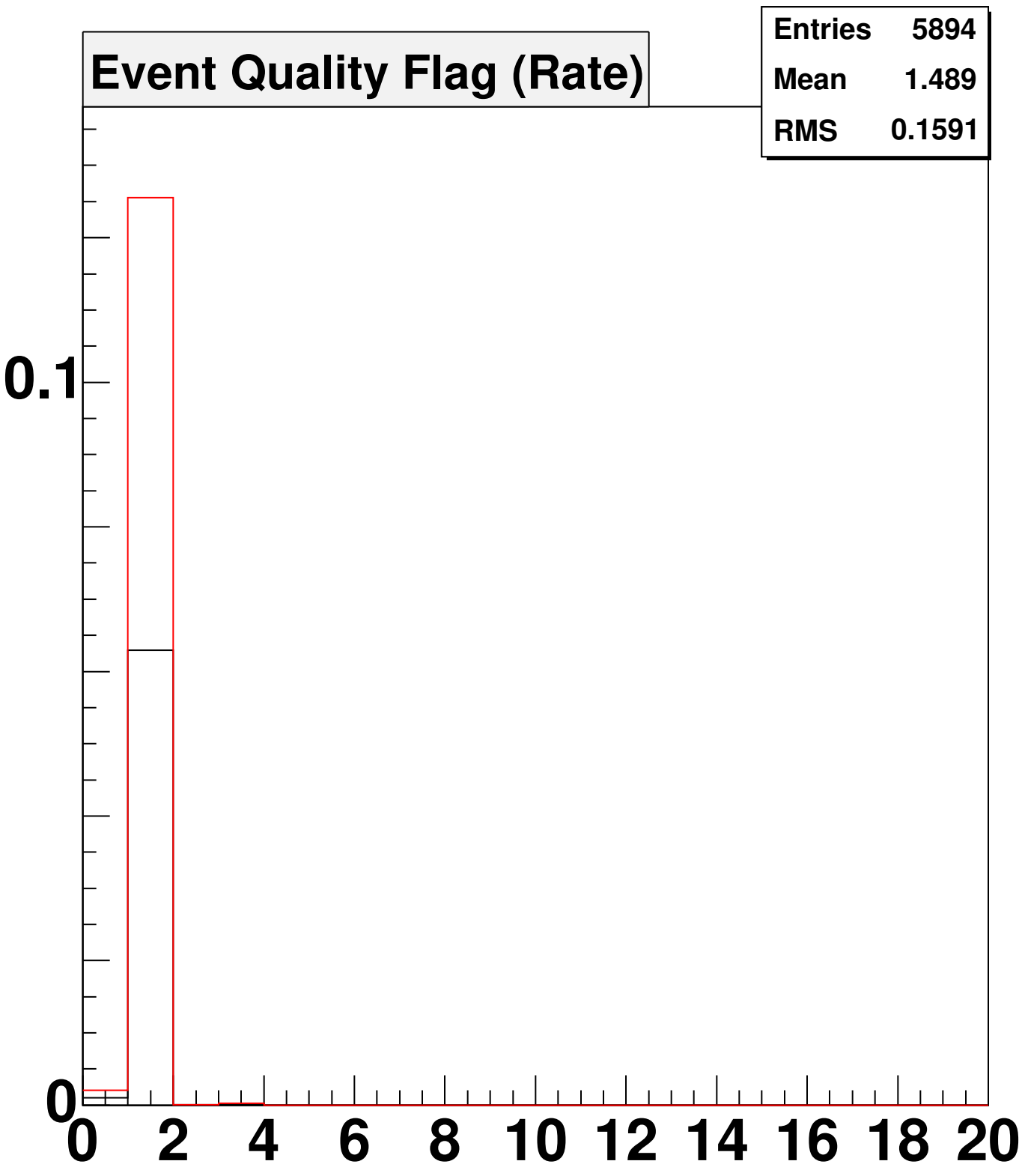


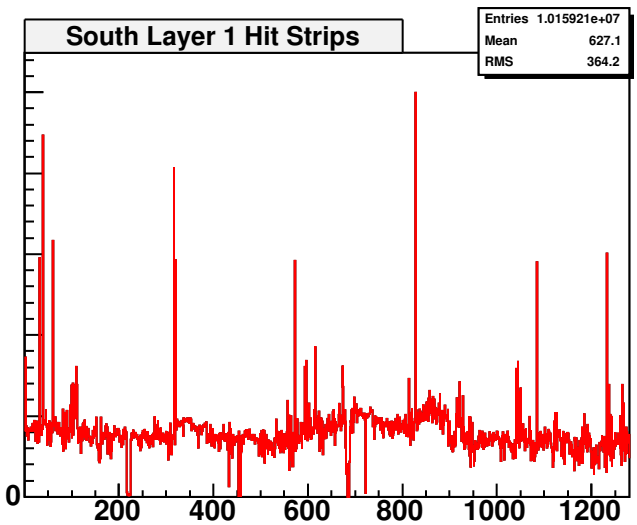
Calorimeter (All CC cells)

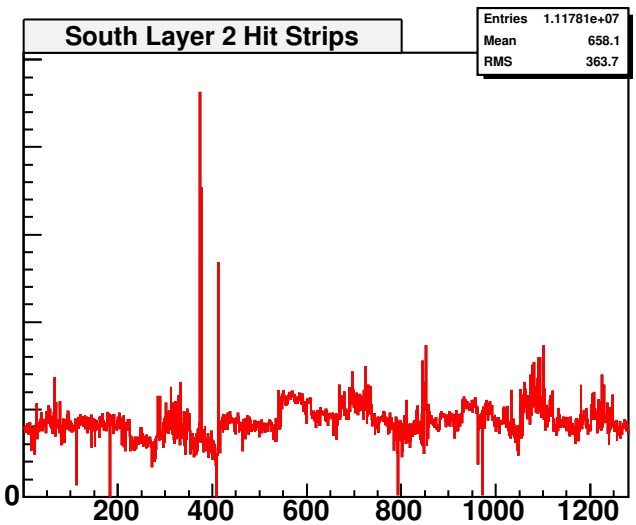


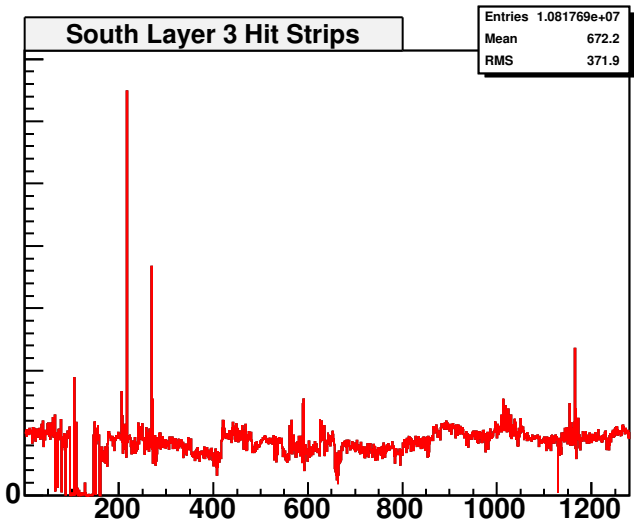
Calorimeter (All EC cells)

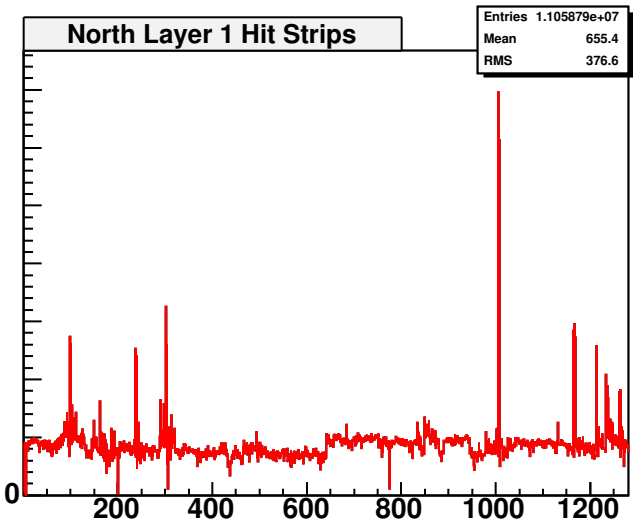

EM objects, pT>10 and MET>30
Leading Jet, MET>30
EM objects, MET>30
All Jets, MET>30
DPHI
DETA
Cal Objects with MET>30 (All cells)

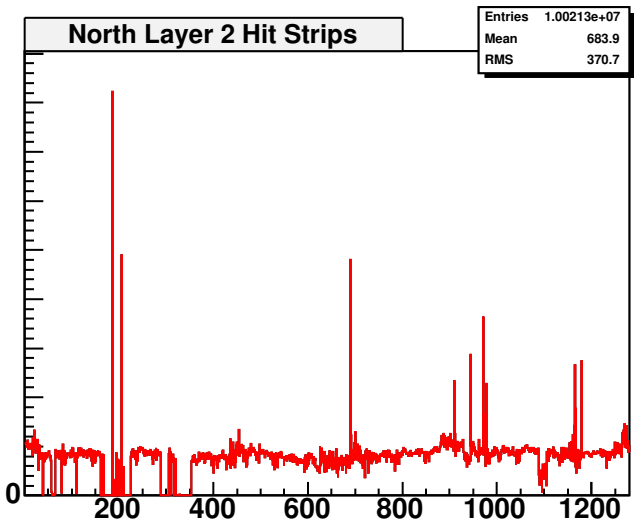

Event Quality Flag (Rate)
Entries 5894
Mean 1.489
RMS 0.1591
0.1
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

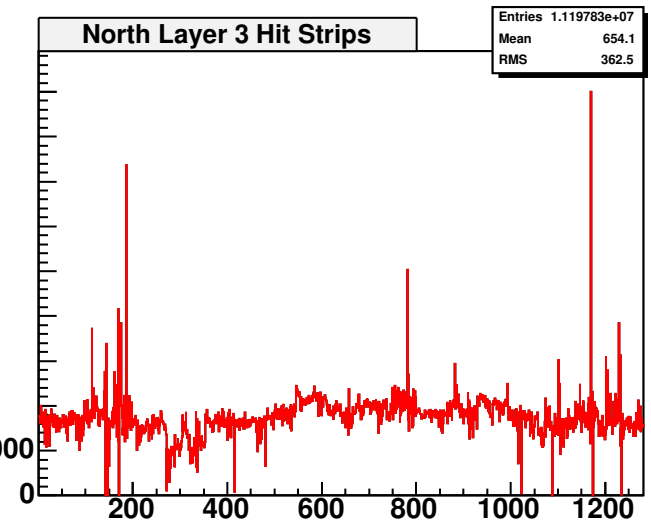




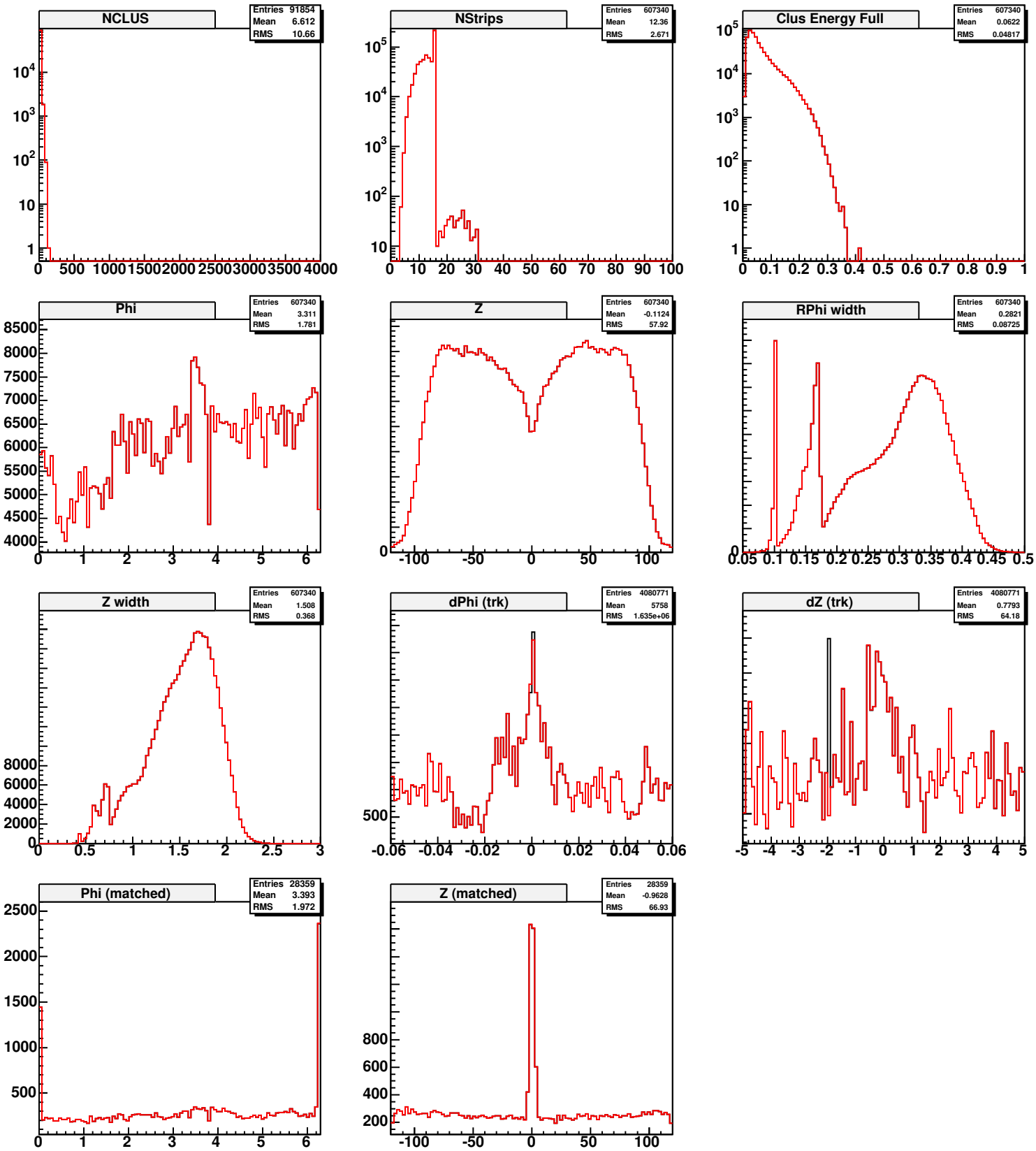




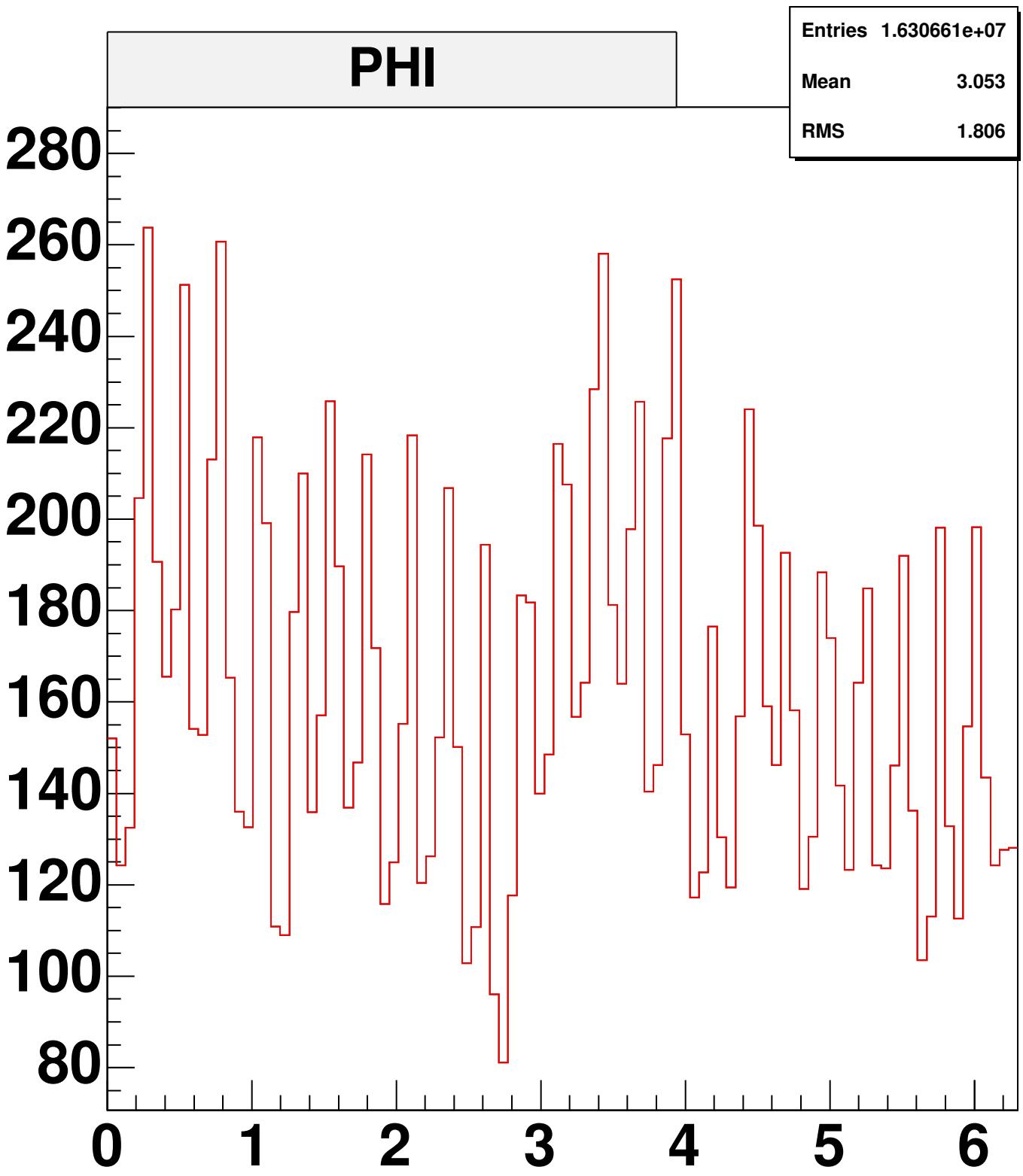


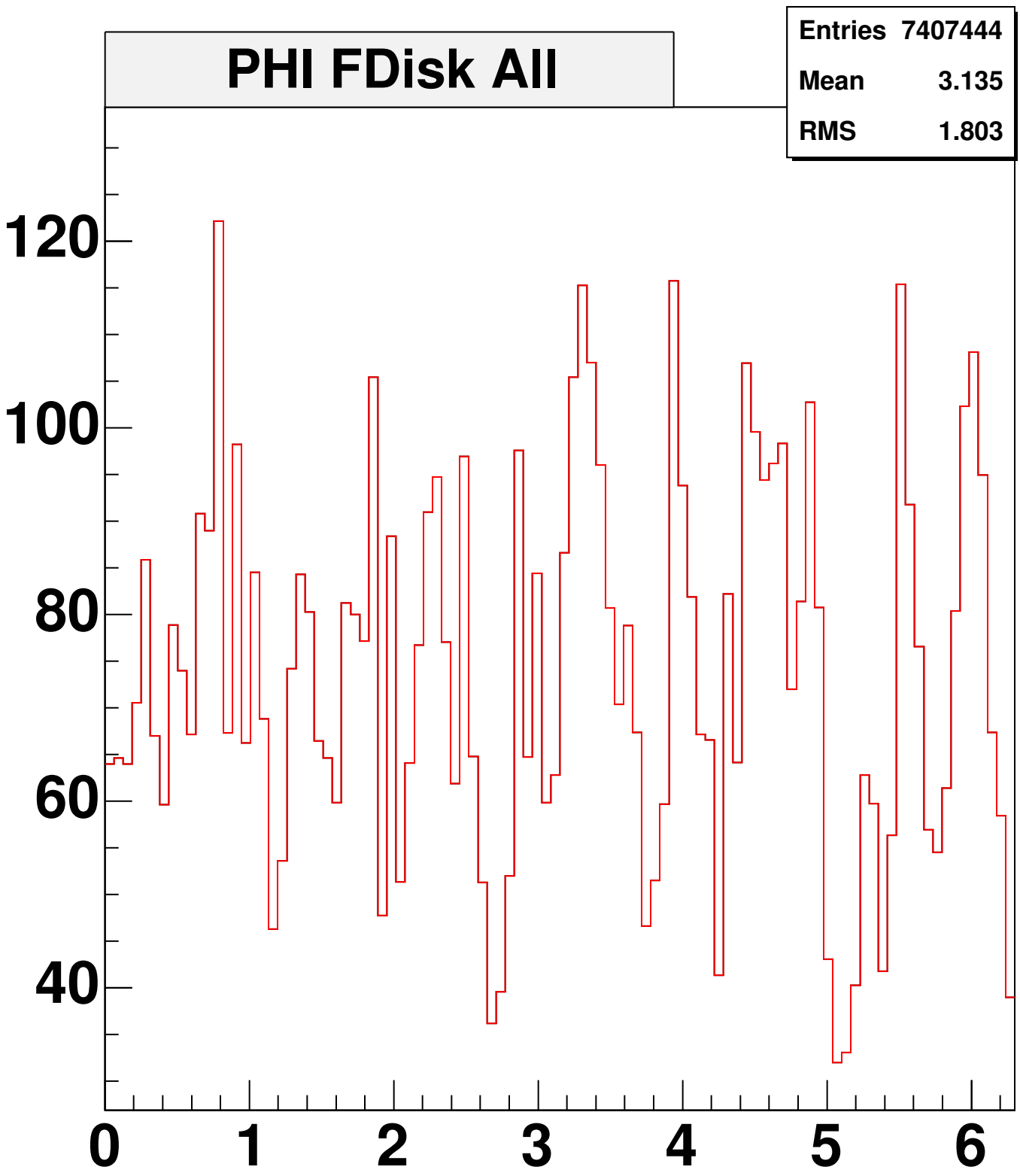


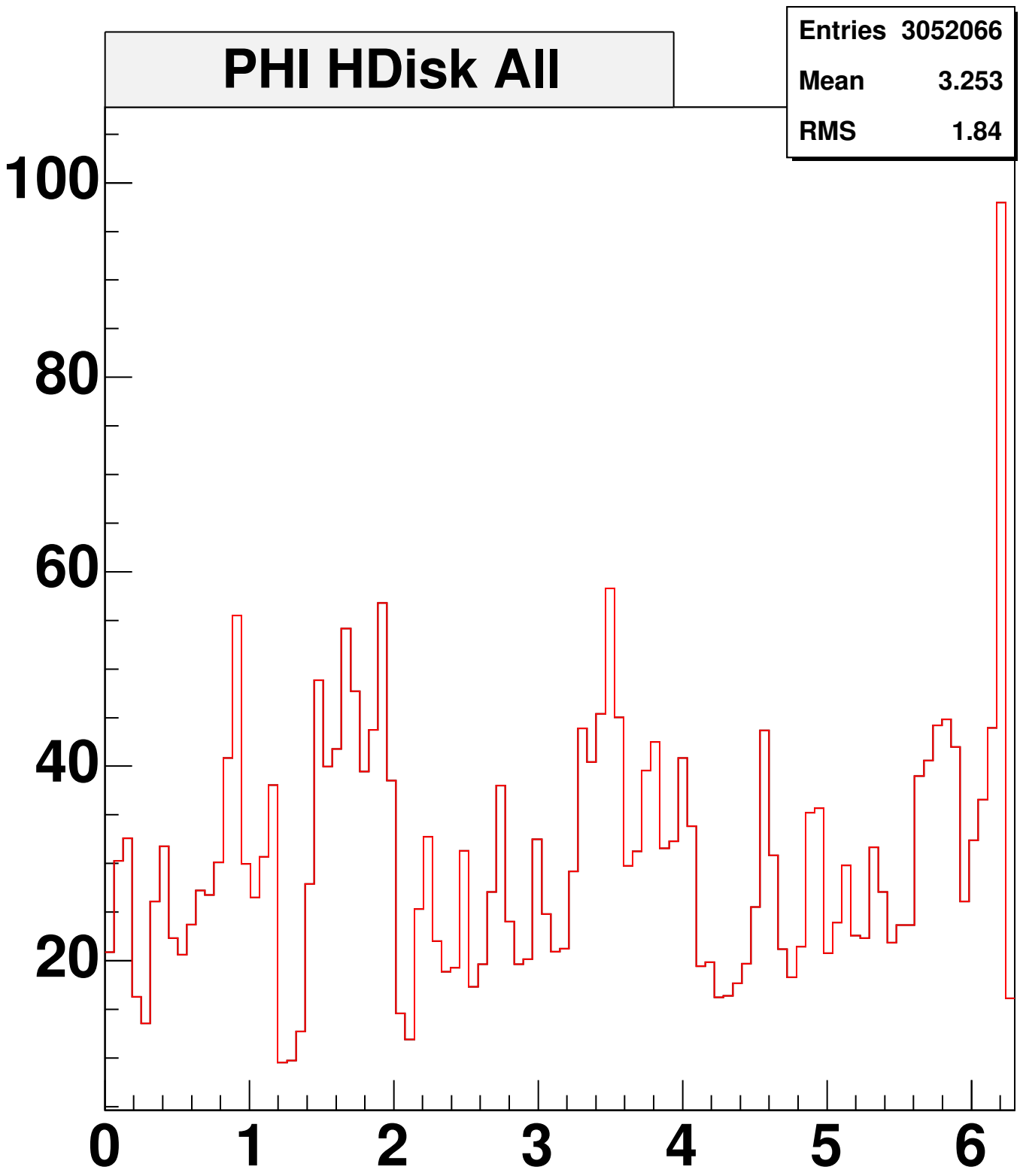
CPS Hit Strips (All Clusters)

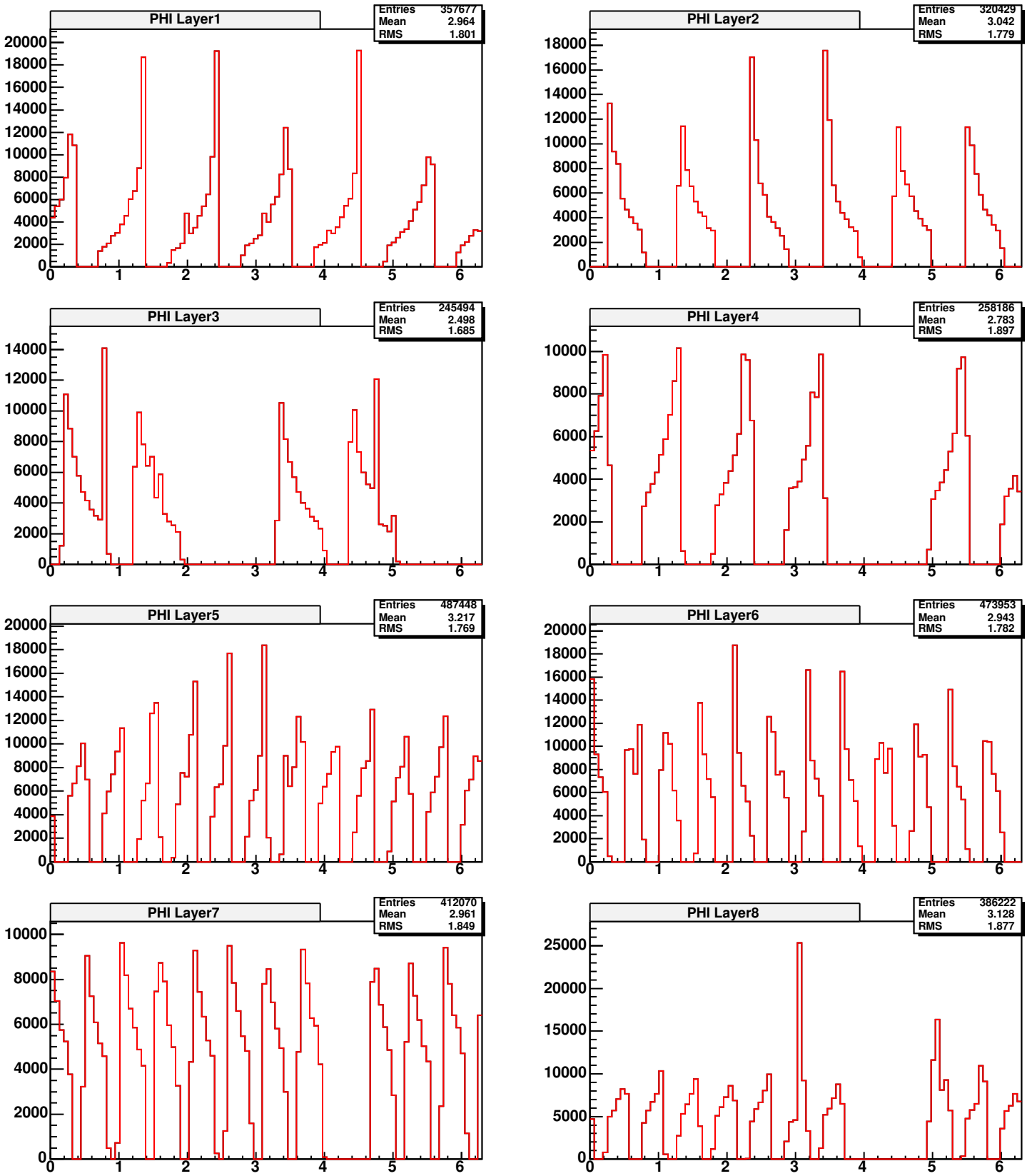


CPS Clusters (All Clusters)

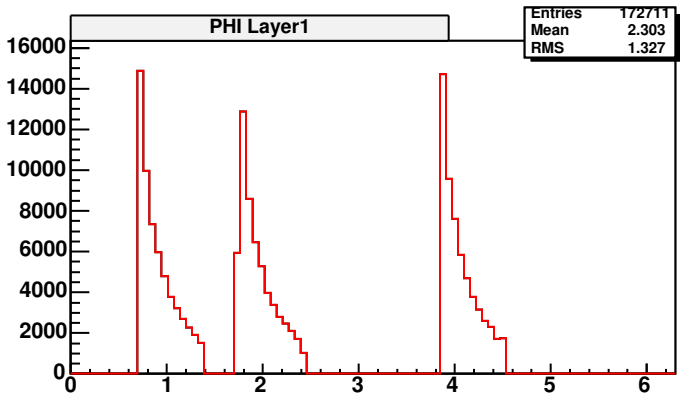

PHI
Entries 1.630661e+07
Mean 3.053
RMS 1.806
280
260
240
220
200
180
160
140
120
100
80
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

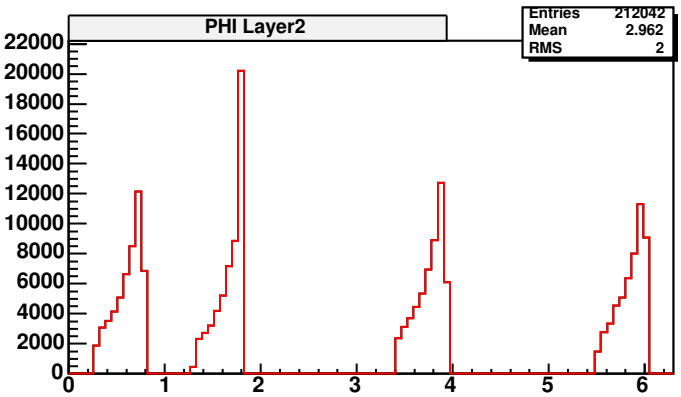

PHI FDisk All
Entries 7407444
Mean 3.135
RMS 1.803
120
100
80
60
40
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

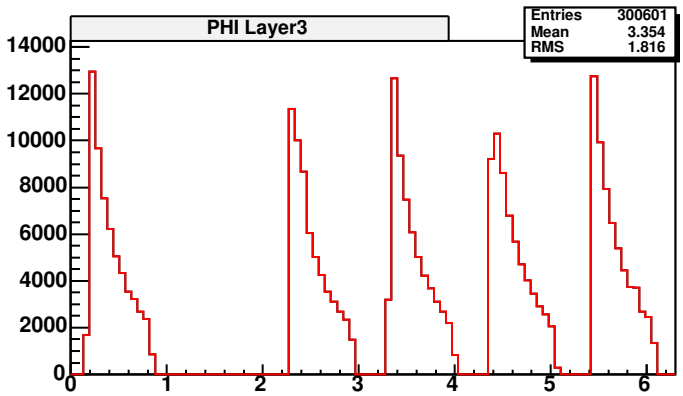

PHI HDisk All
Entries 3052066
Mean 3.253
RMS 1.84
100
80
60
40
20
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

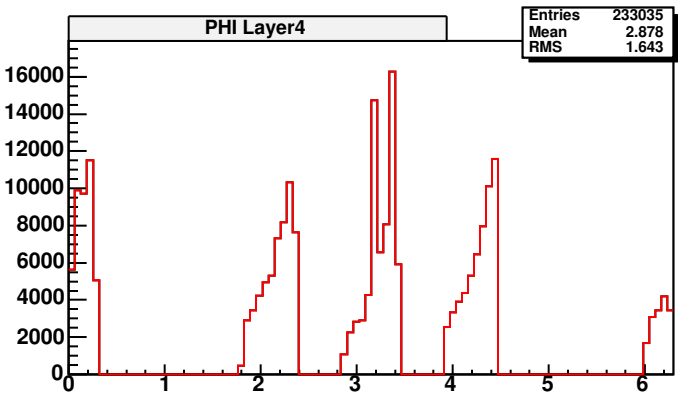


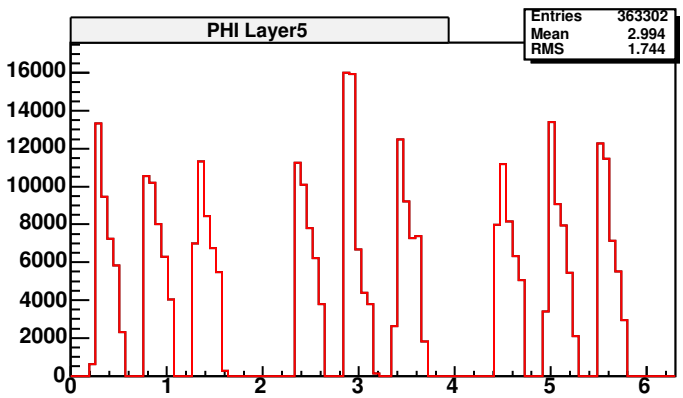
SmtClusters (ClustrBar1)

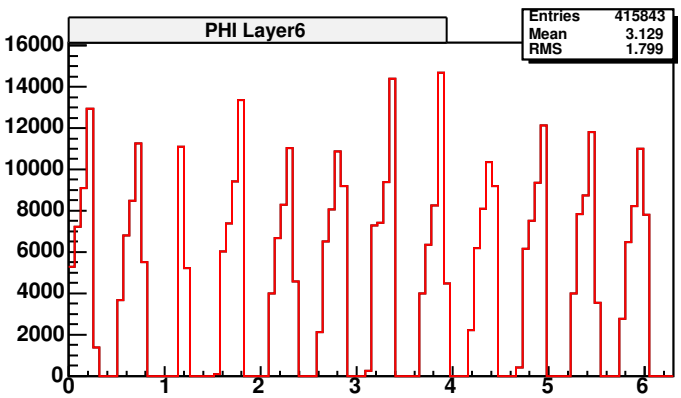


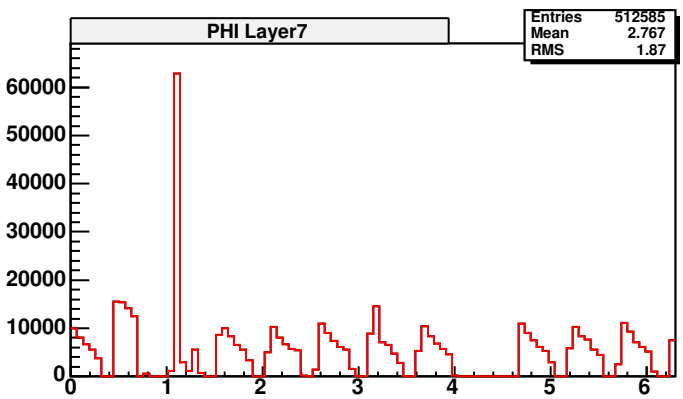


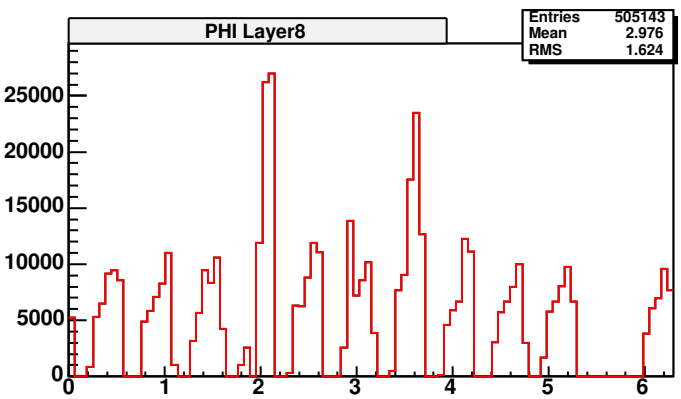




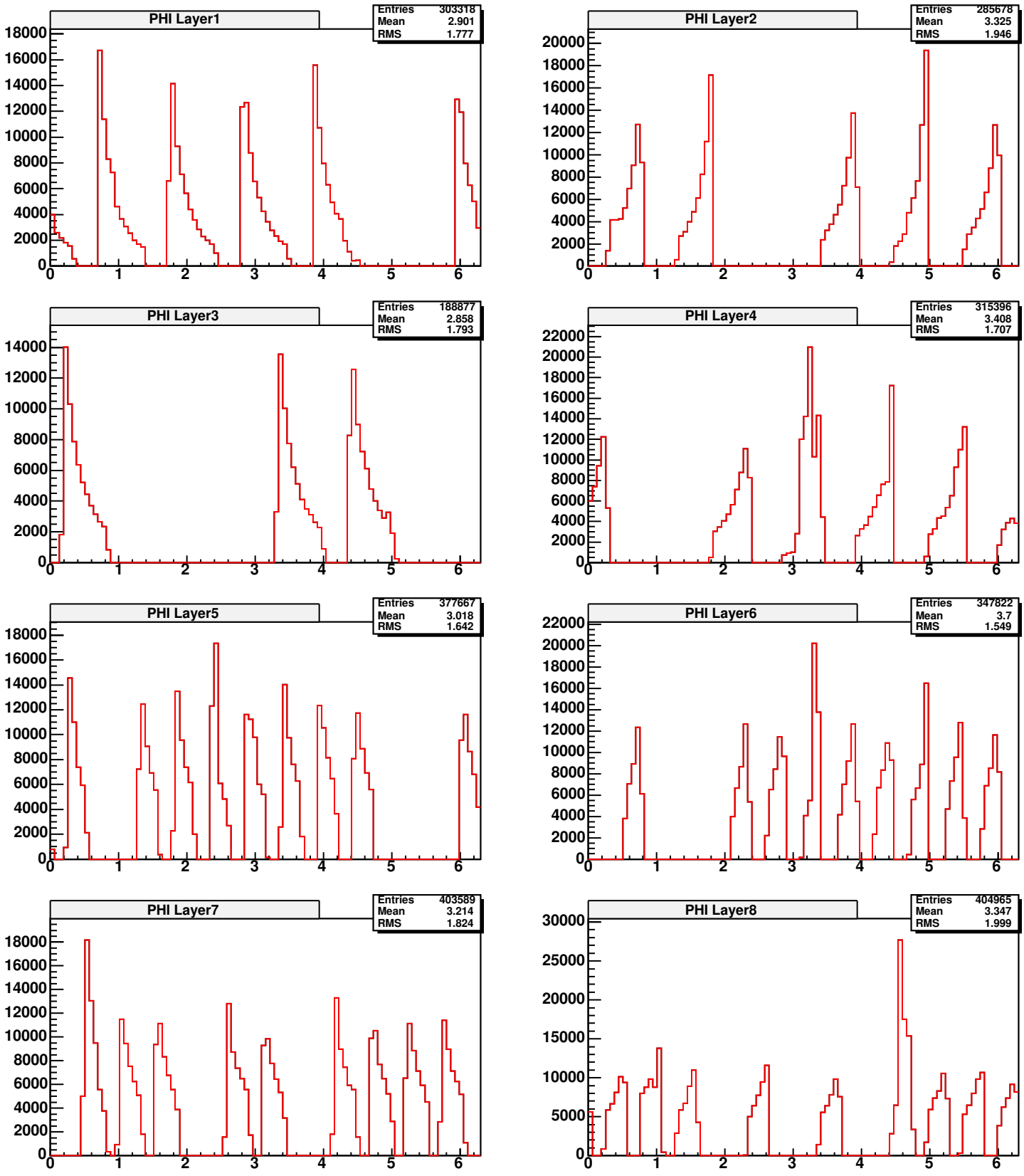




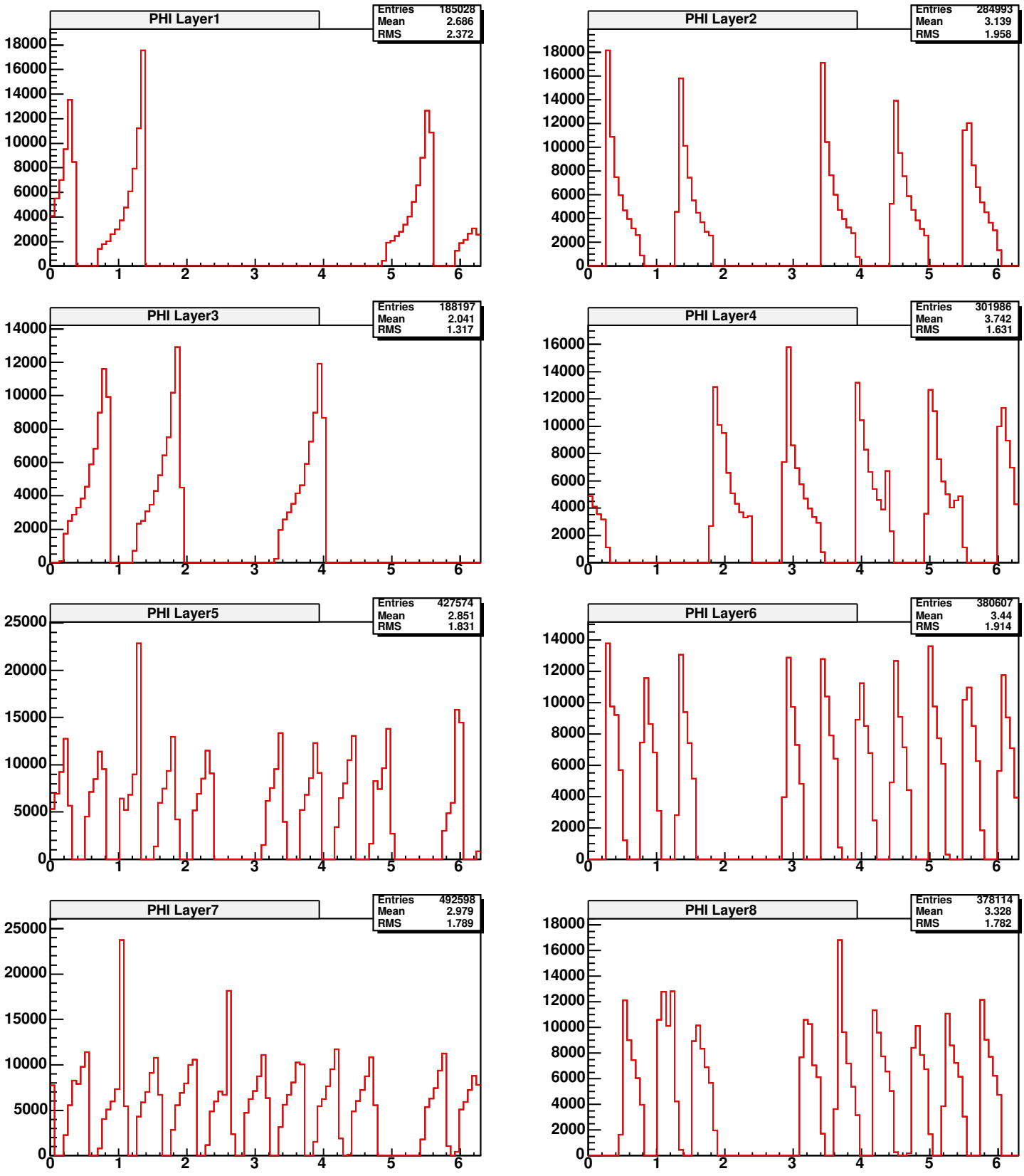




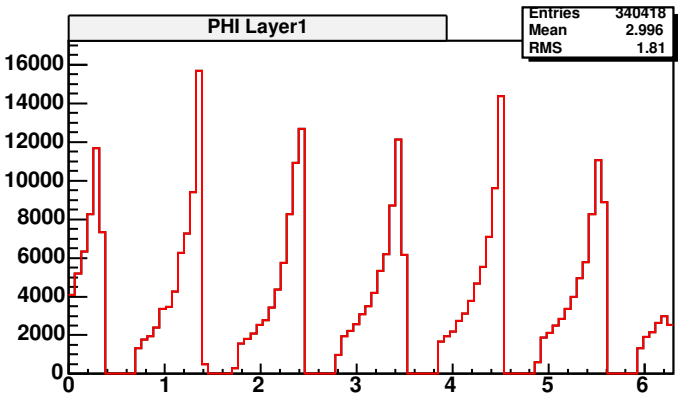
SmtClusters (ClustrBar2)

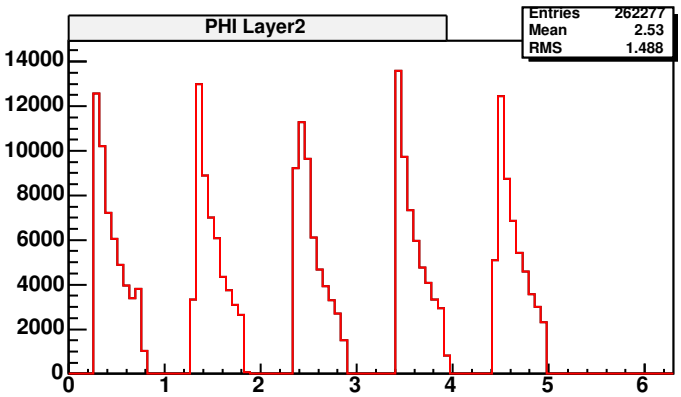


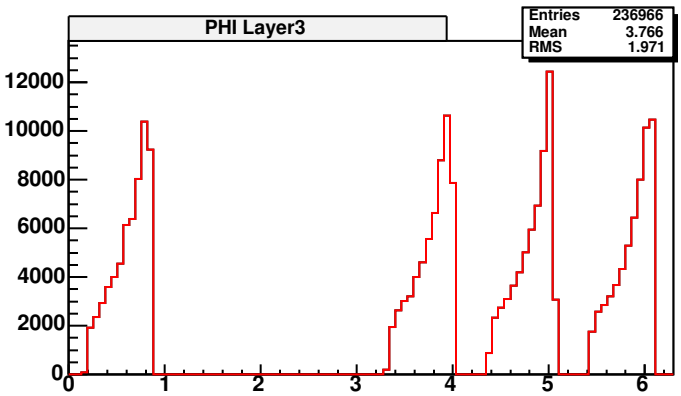
SmtClusters (ClustrBar3)

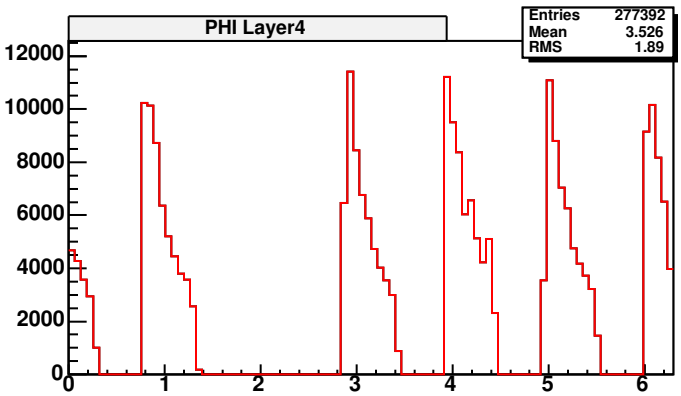


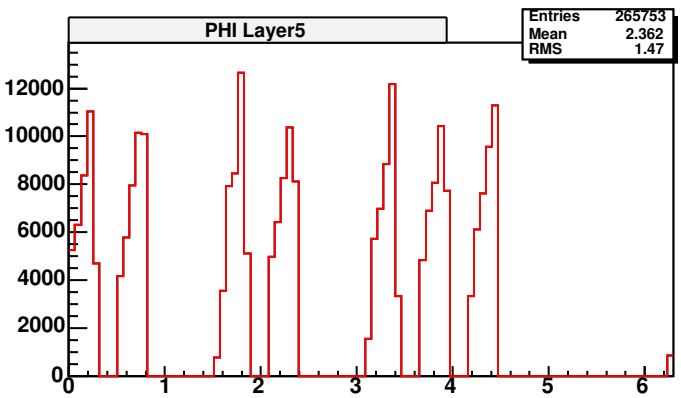
SmtClusters (ClustrBar4)

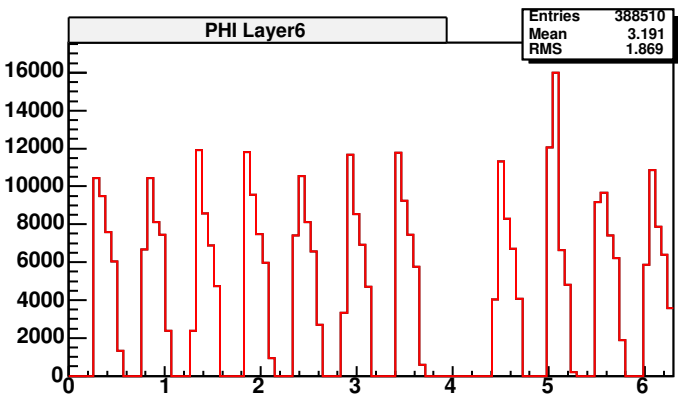


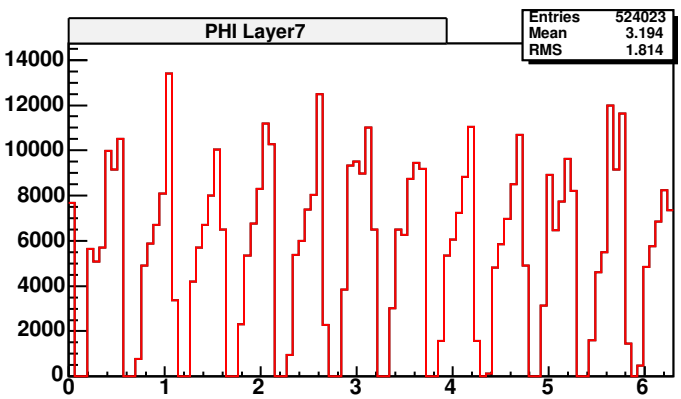


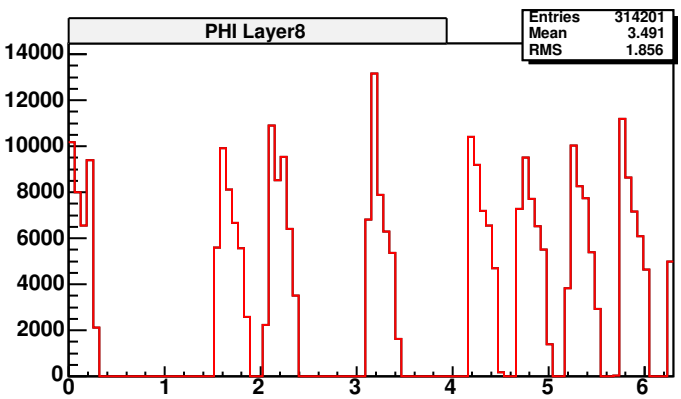




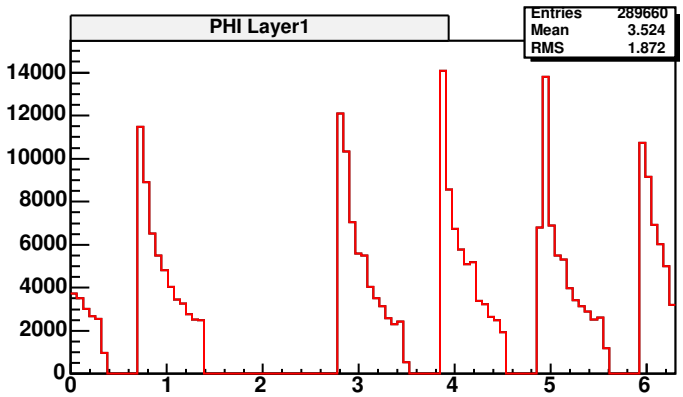


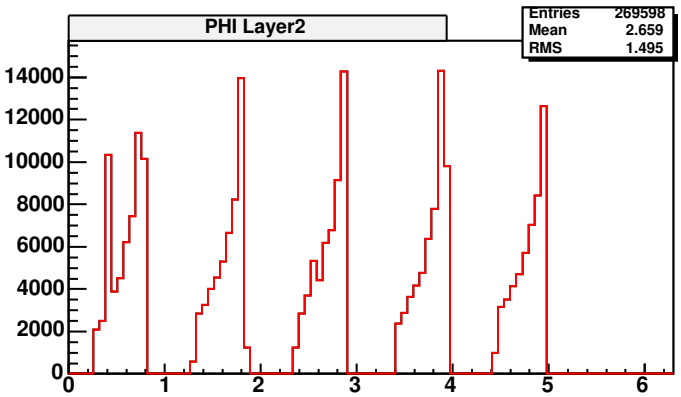


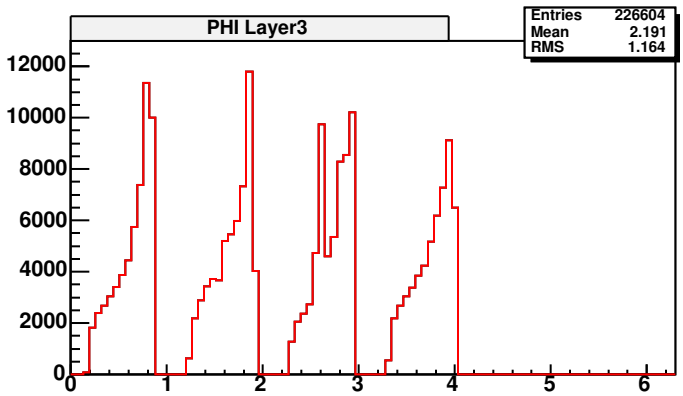


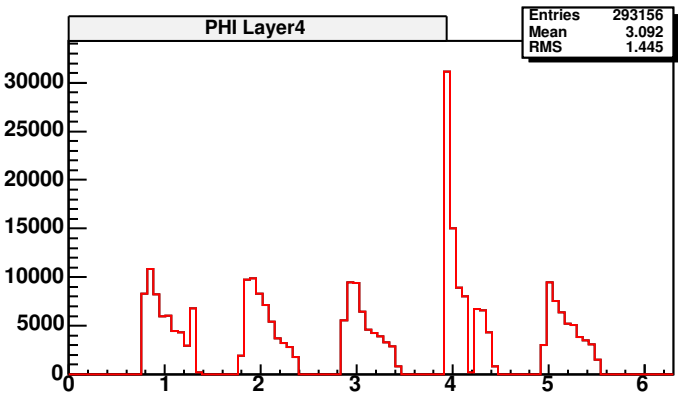


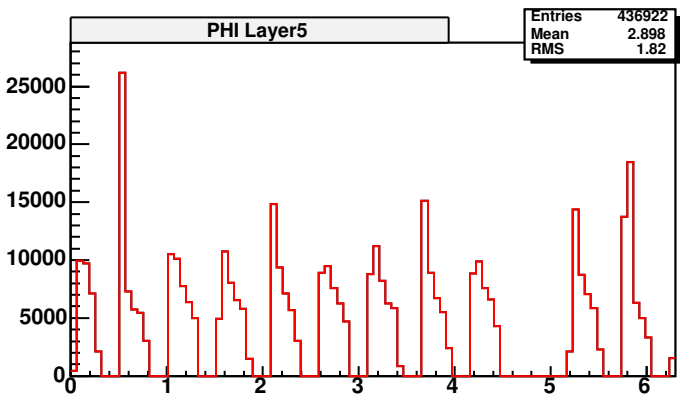
SmtClusters (ClustrBar5)

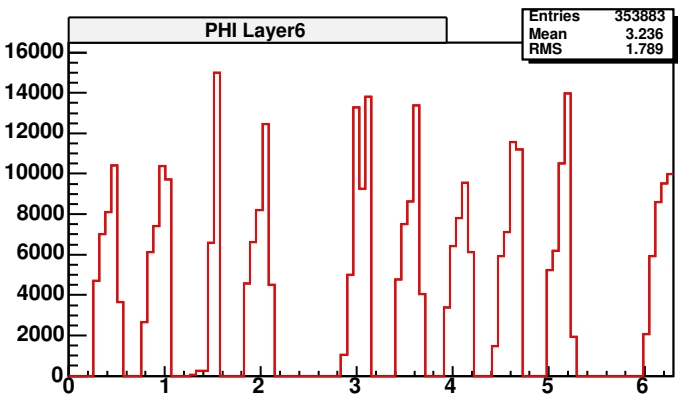


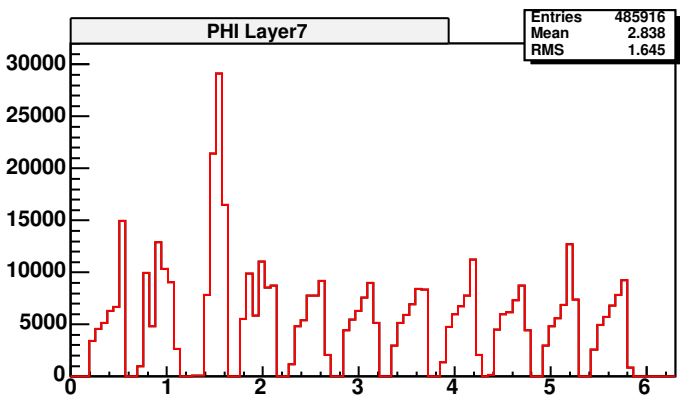


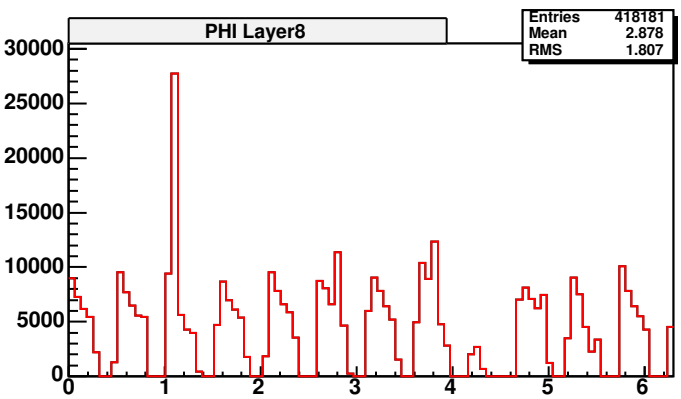




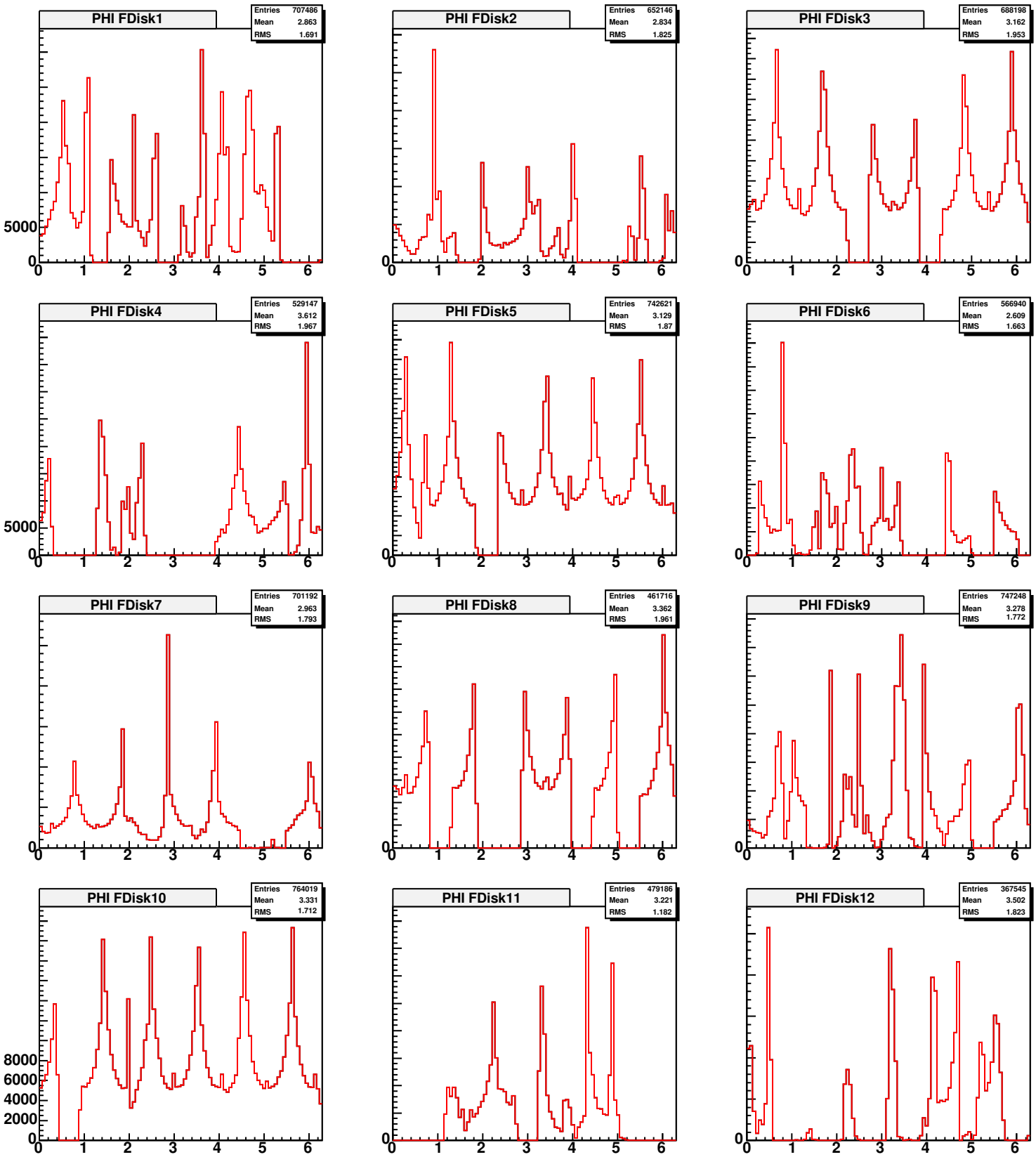




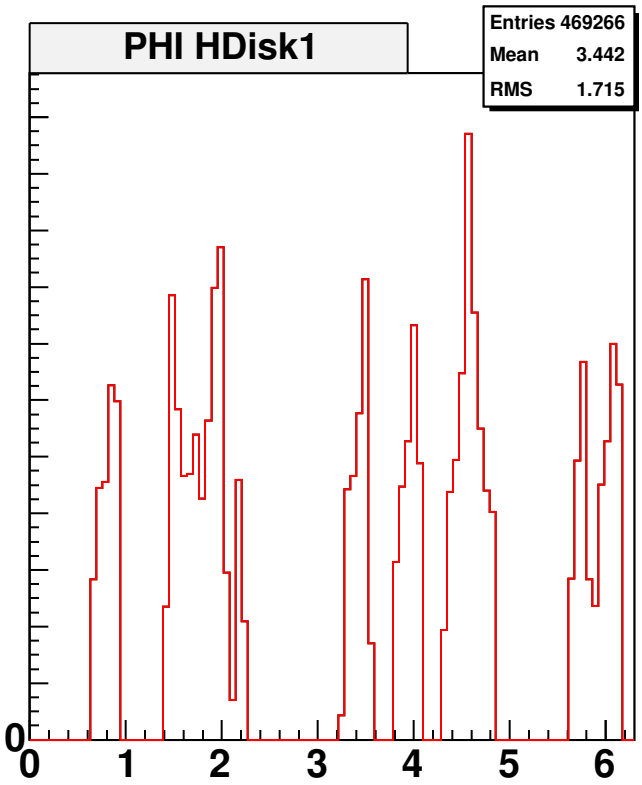


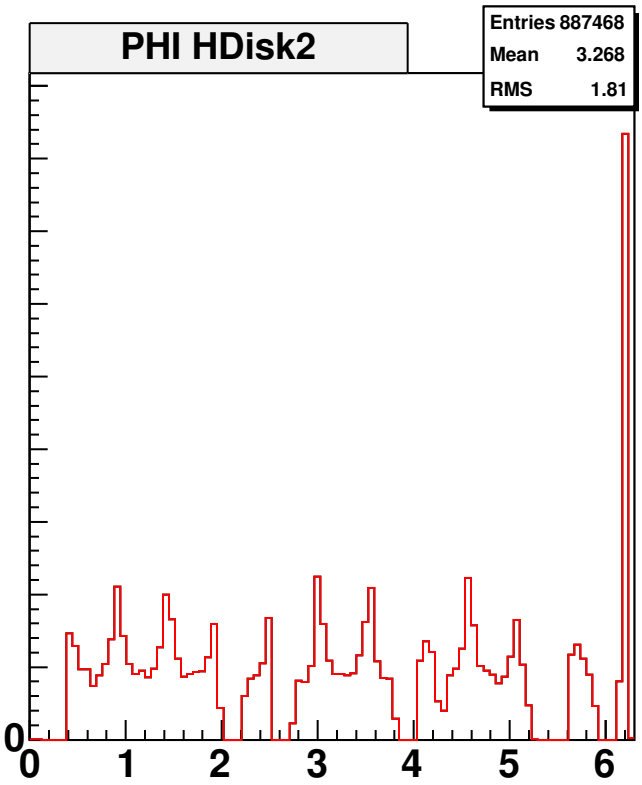


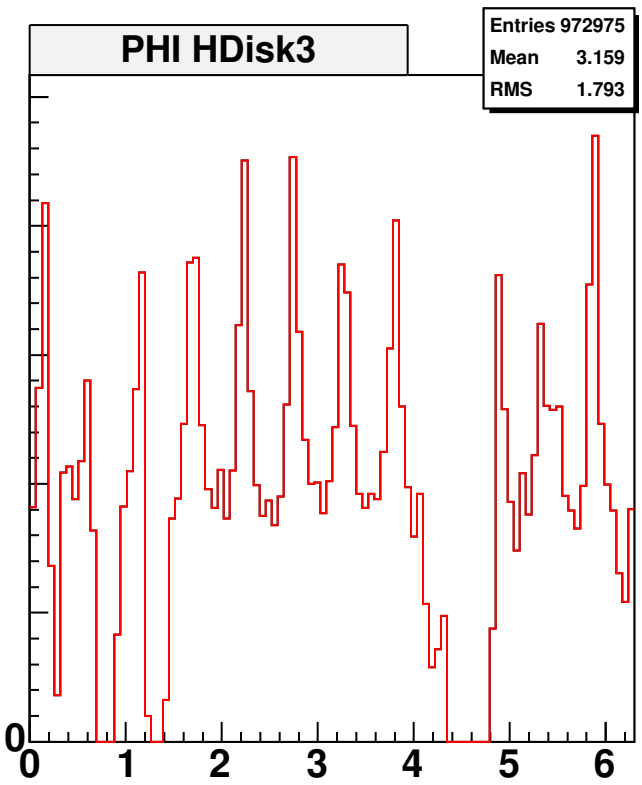
SmtClusters (ClustrBar6)

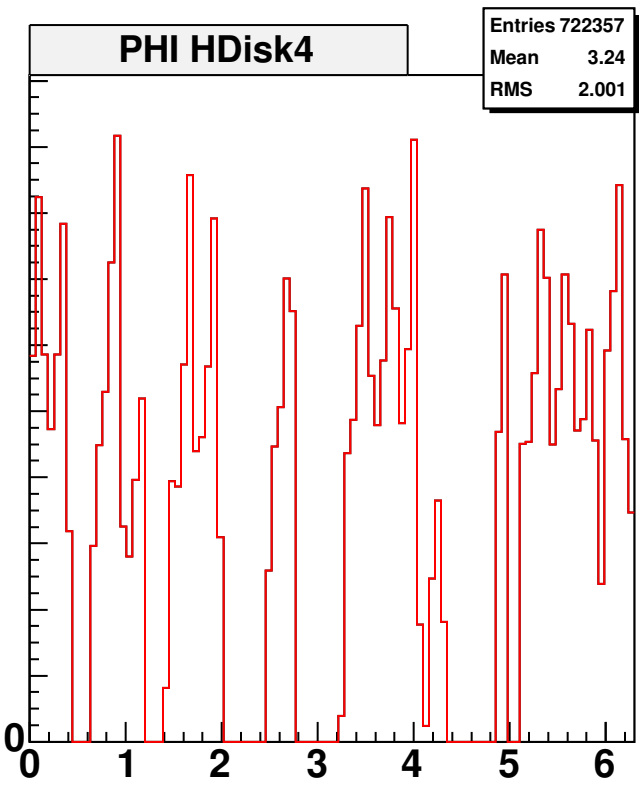


SmtClusters (FDiskClusters)

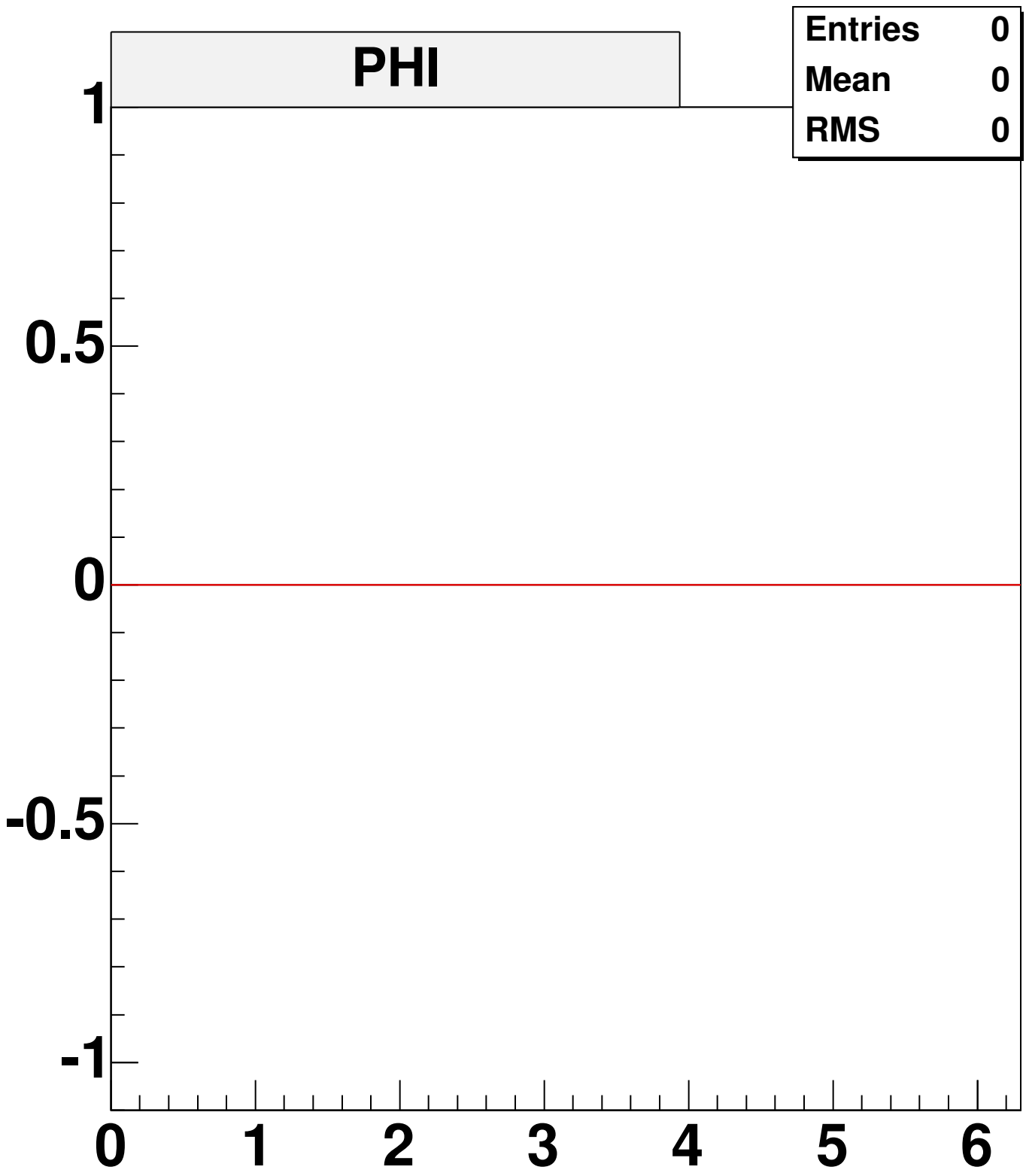


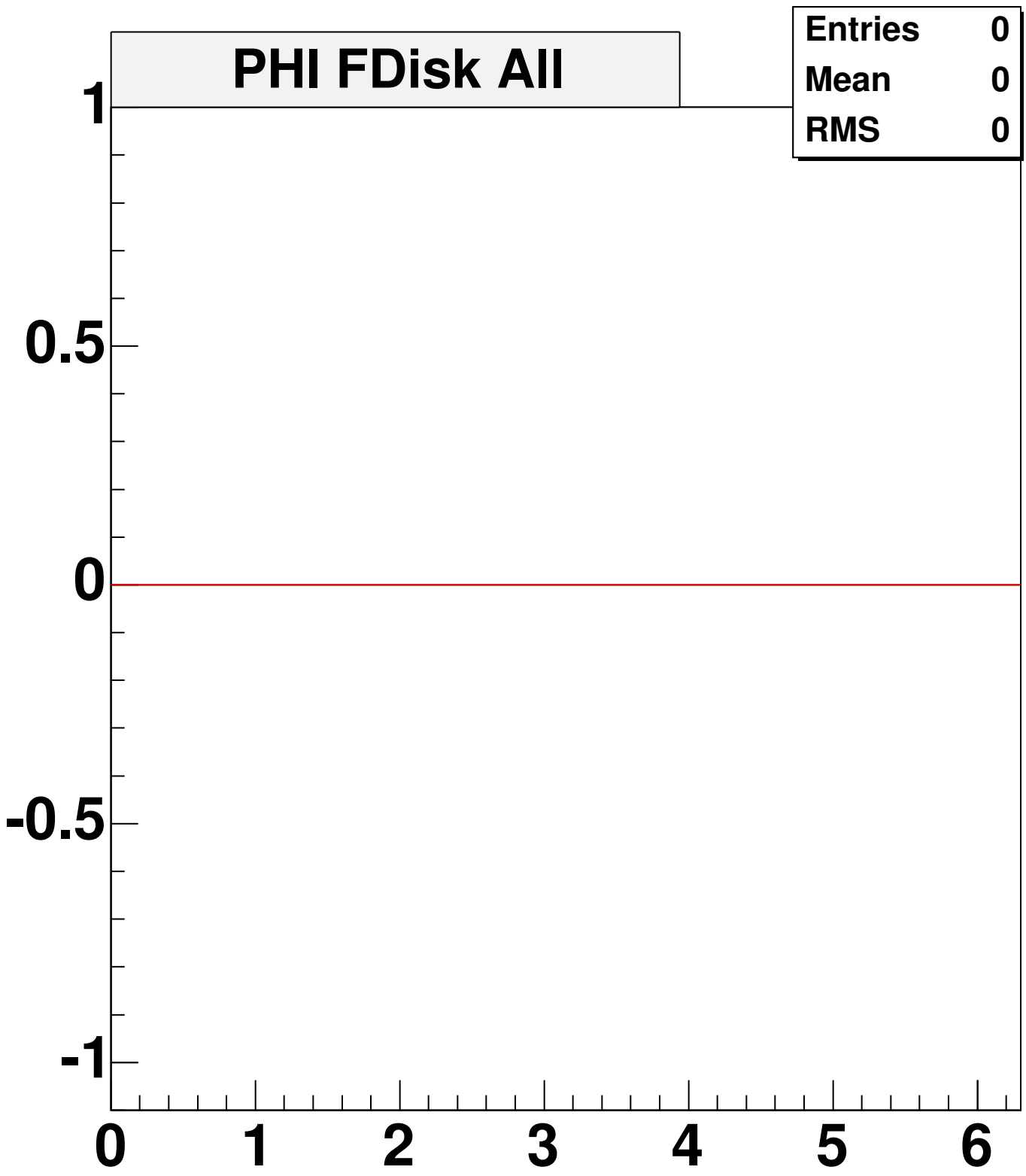






SmtClusters (HDiskClusters)


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


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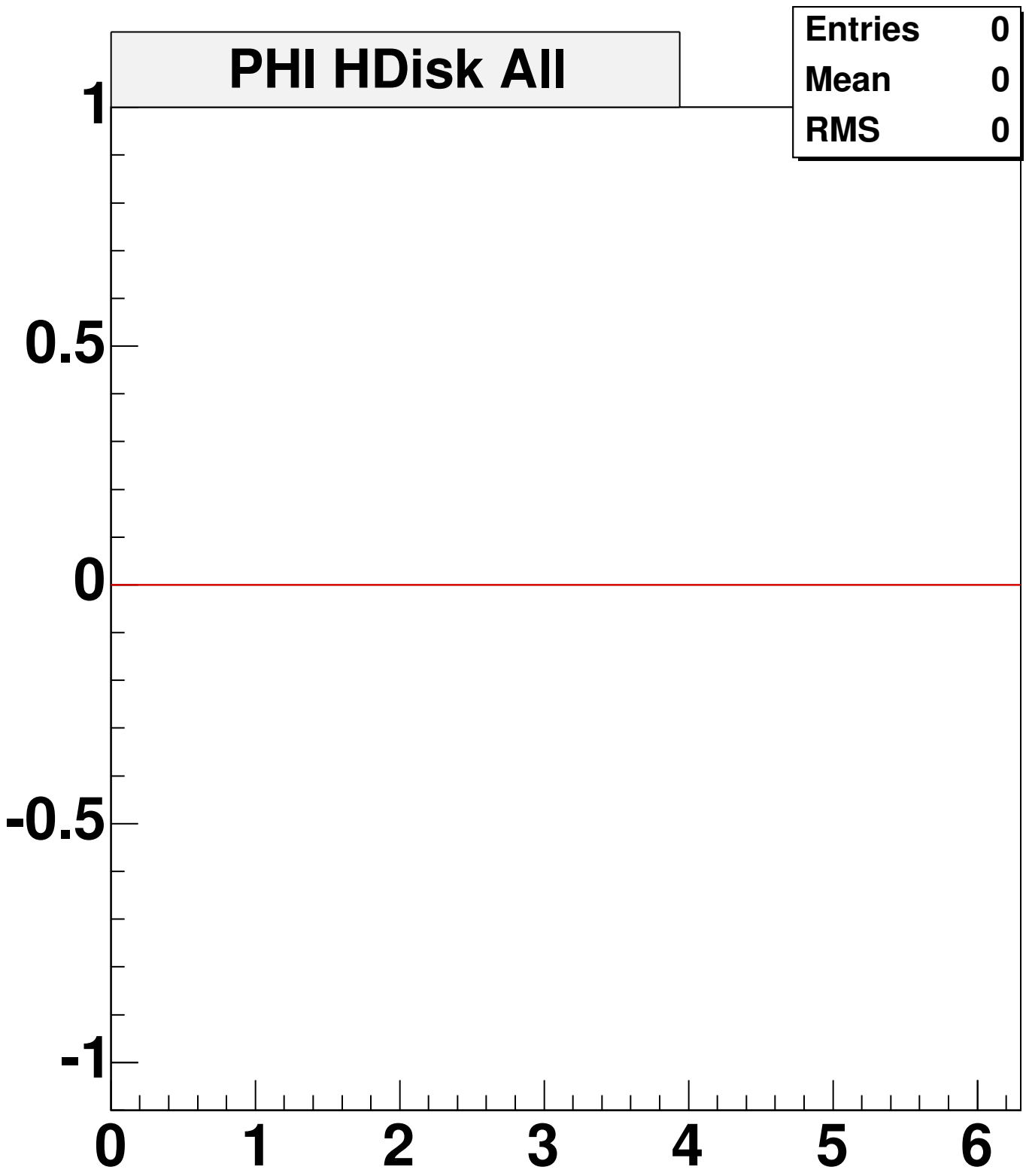
SmtClusters (allFDiskTClusters)


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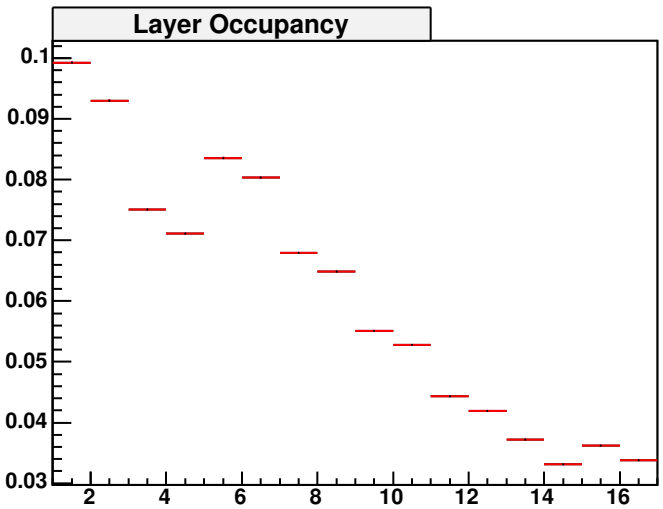
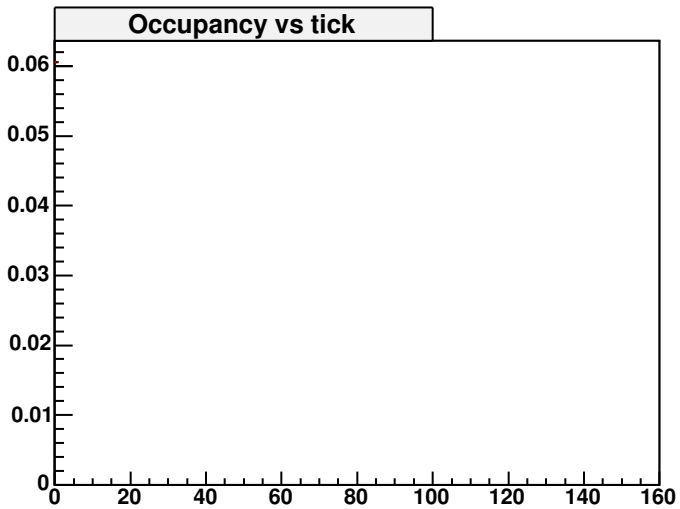
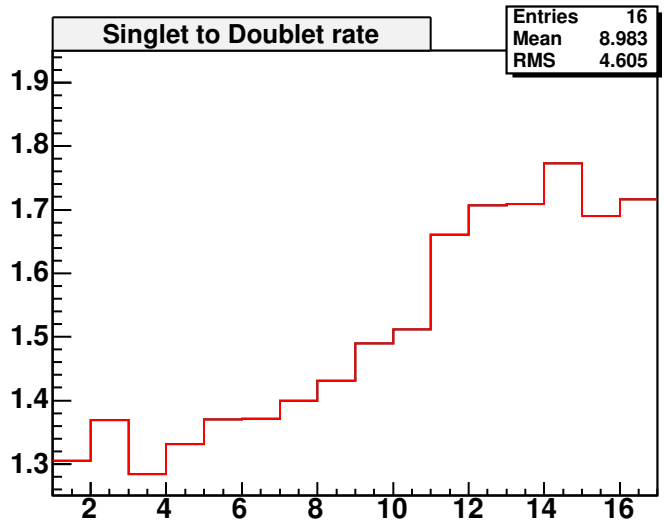
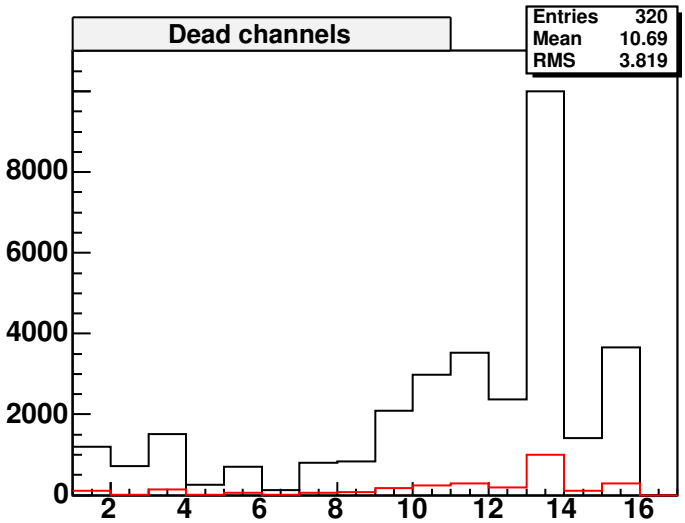
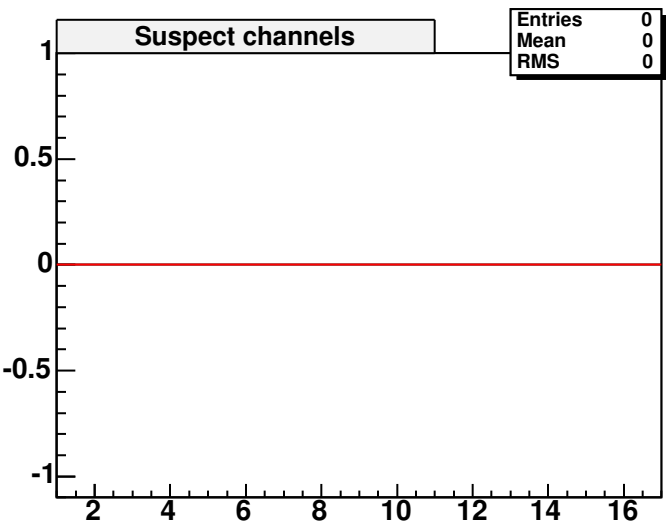
6
SmtClusters (allHDiskTClusters)

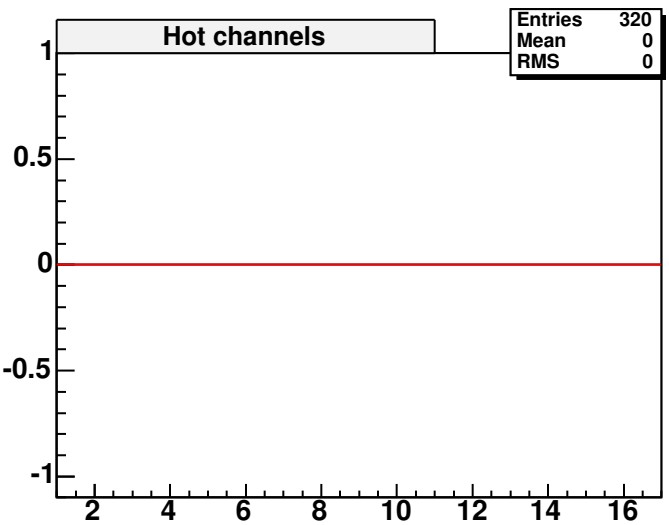




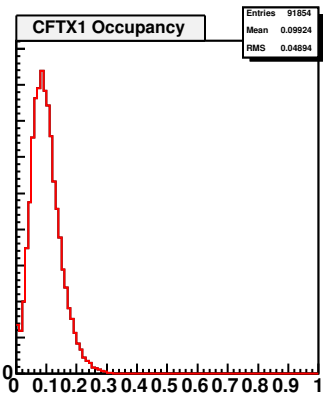


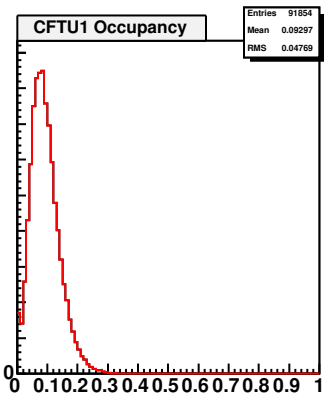


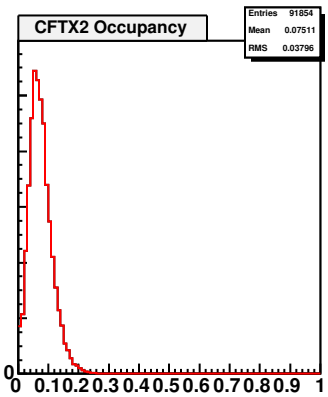


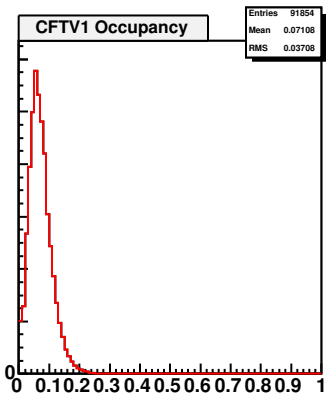


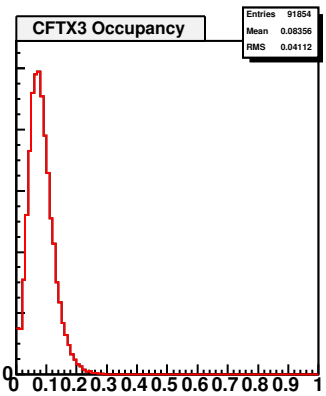
CFT Summary (All Clusters)

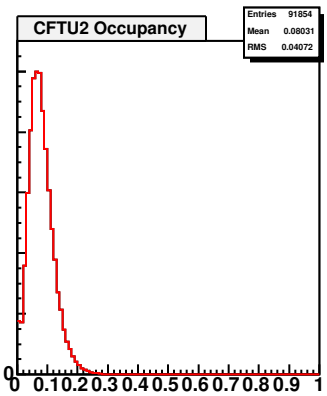


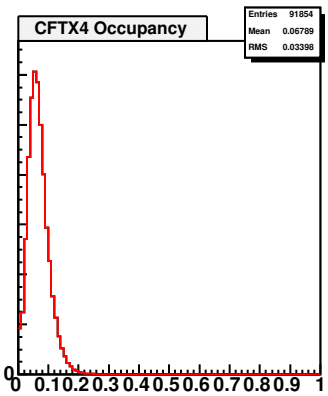


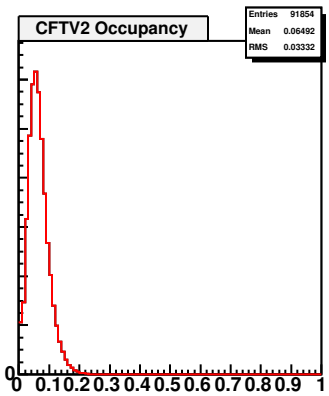


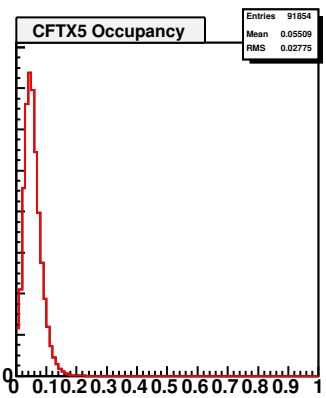


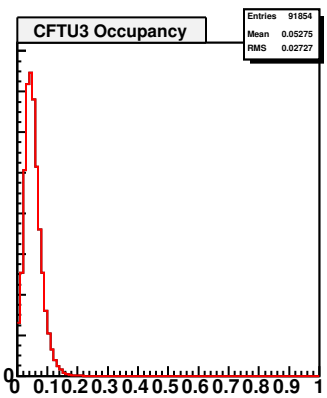


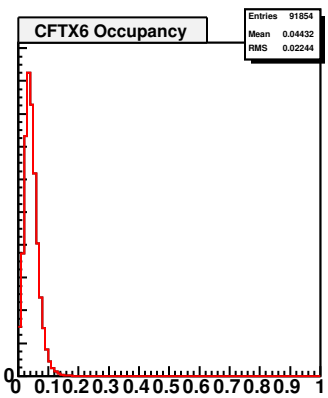


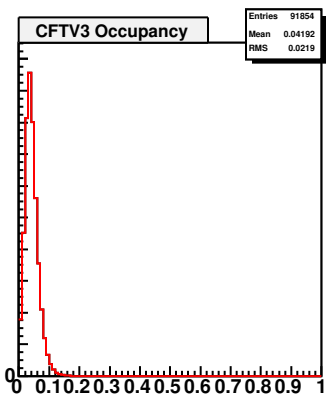


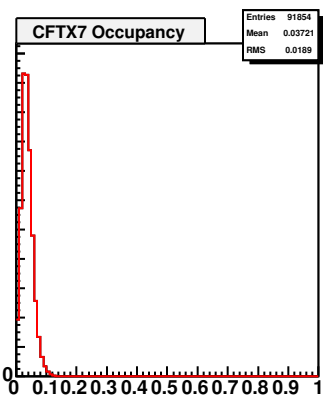


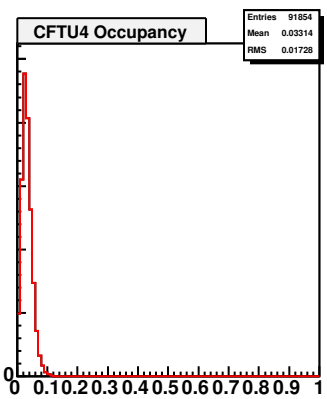


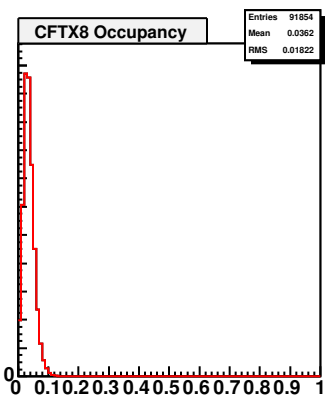


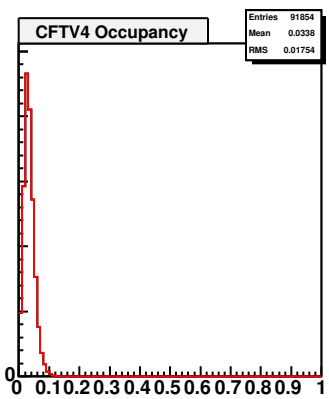




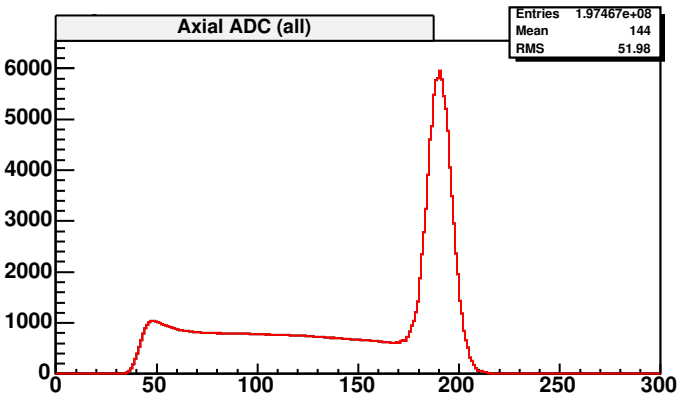


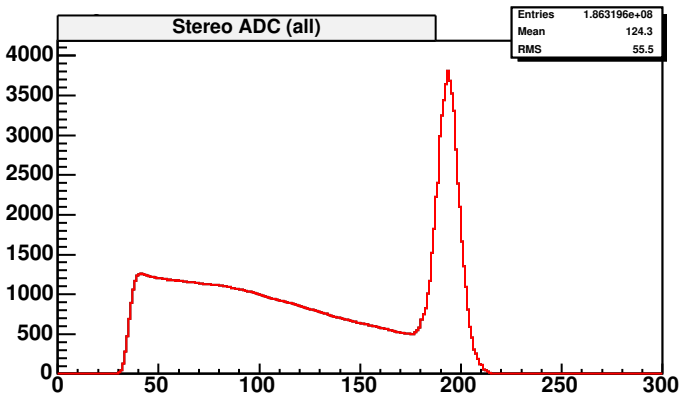


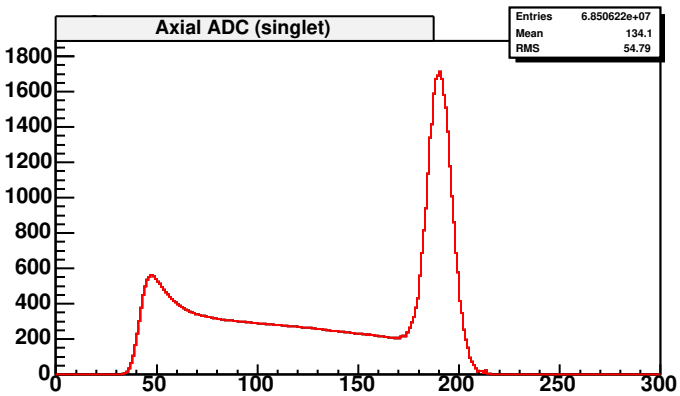


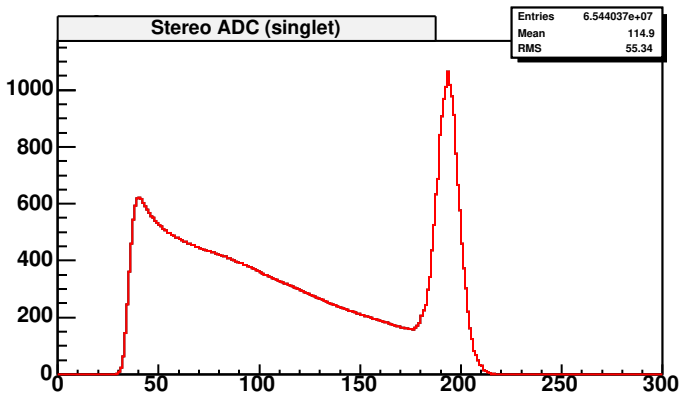


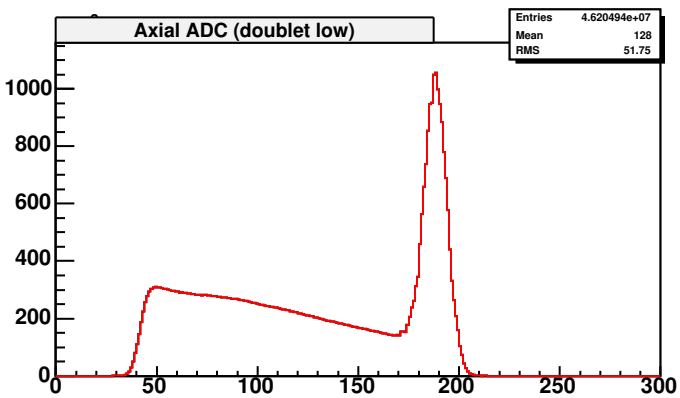
CFT Occupancy (All Clusters)

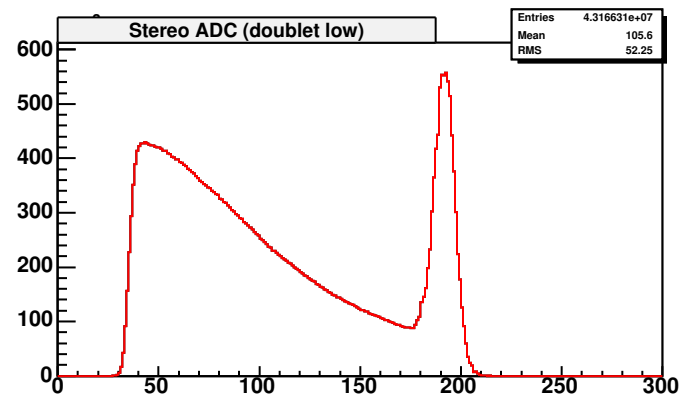


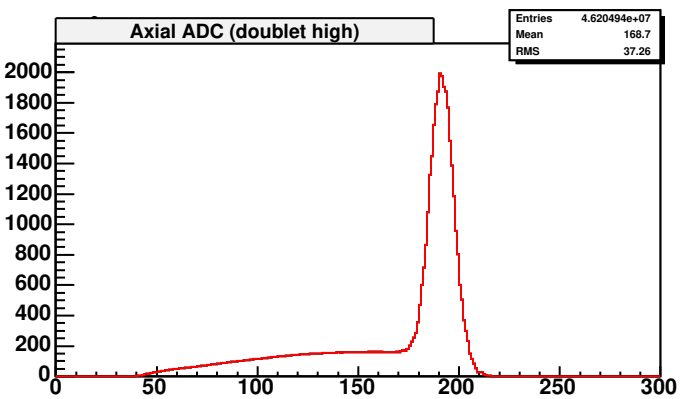


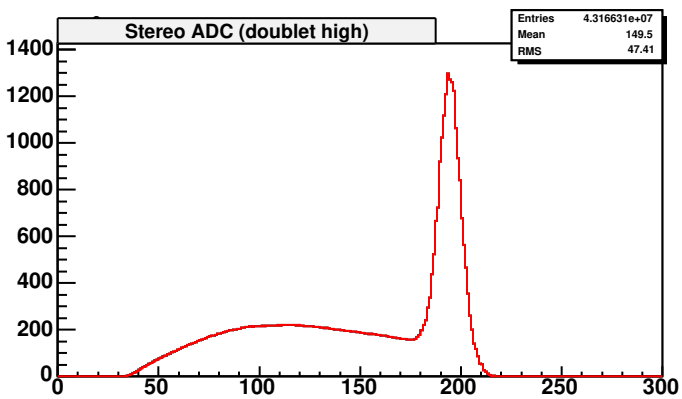




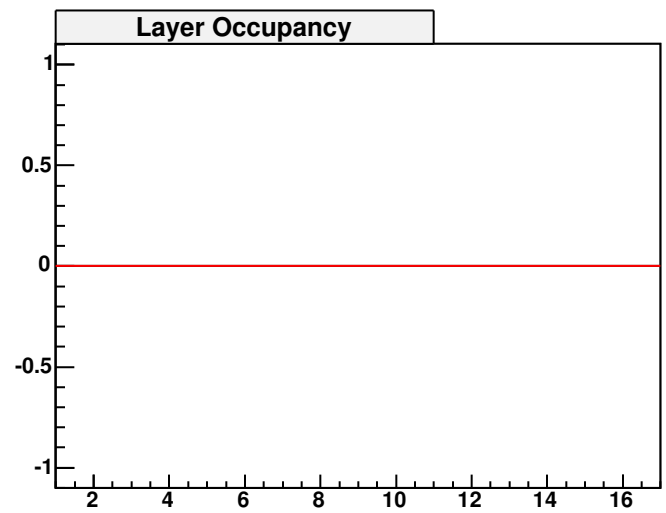


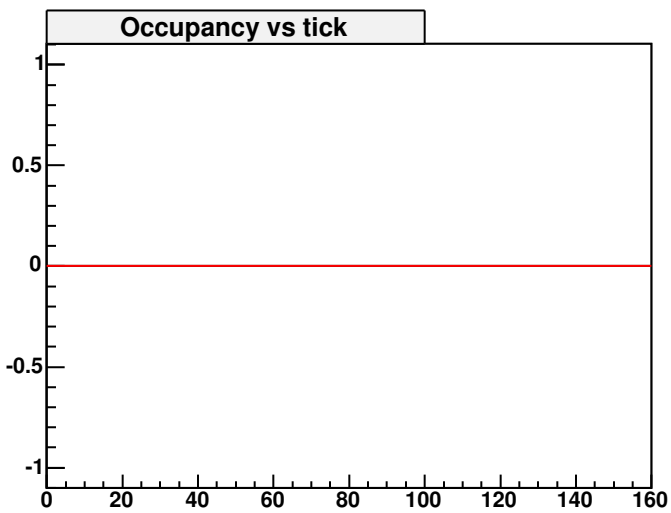


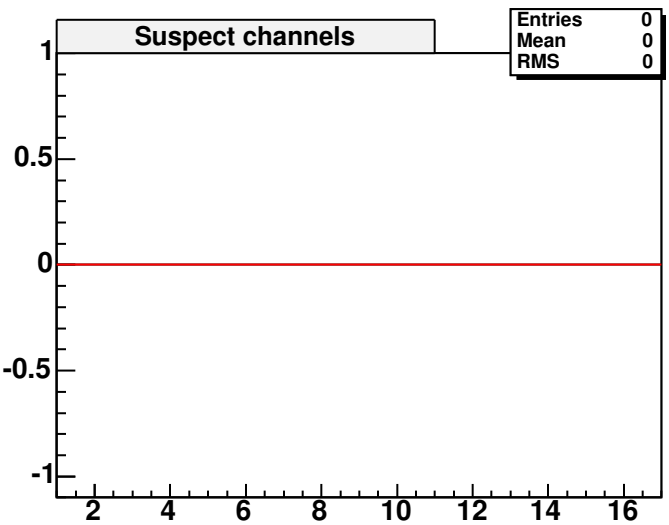


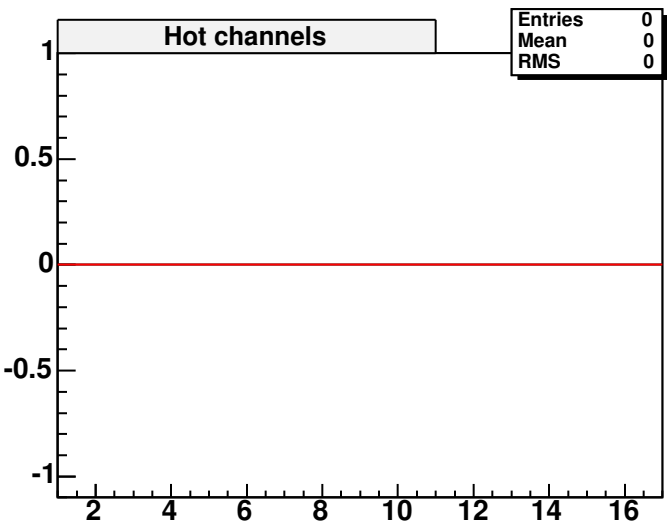


CFT ADC Summary (All Clusters)

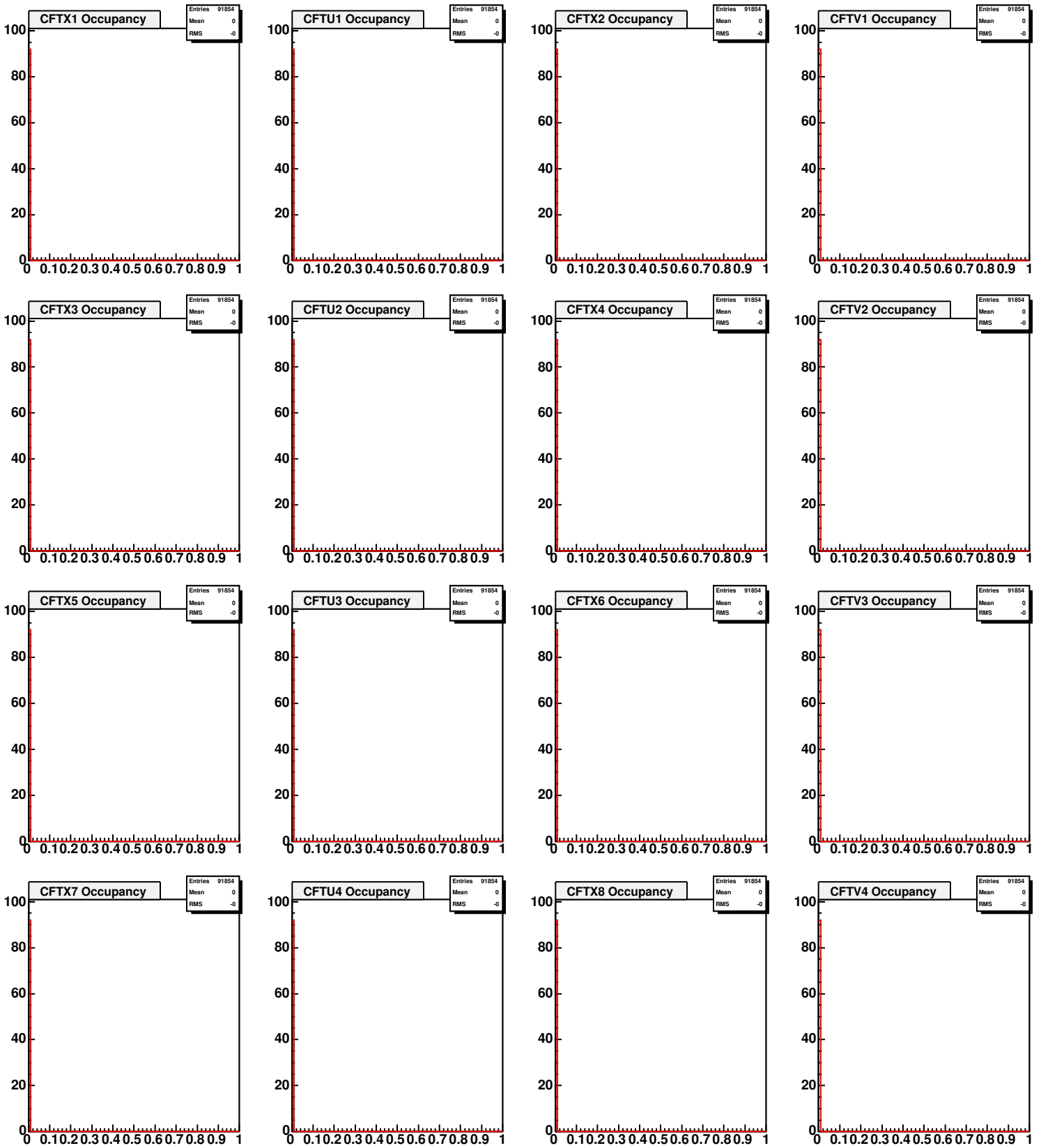




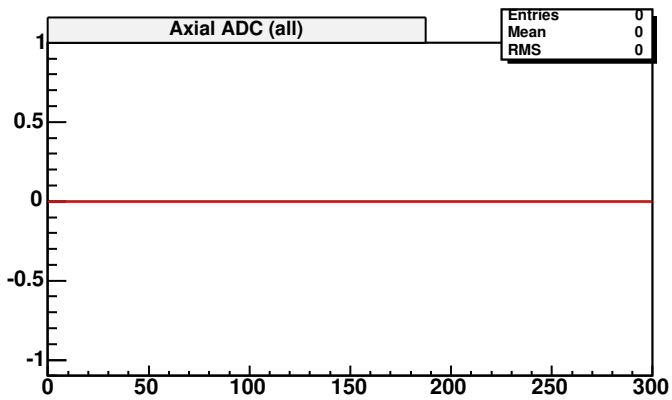


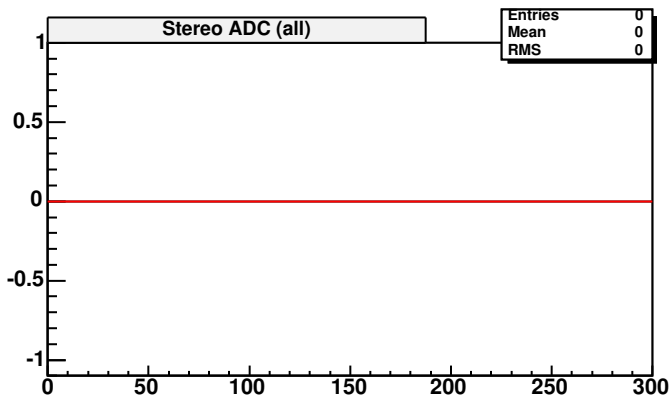


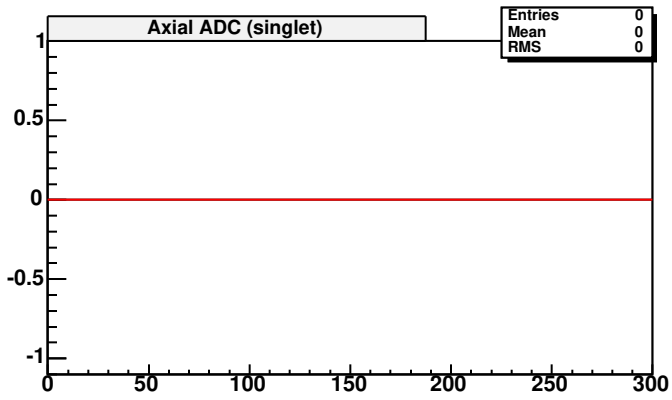
CFT Summary (Clusters on tracks)

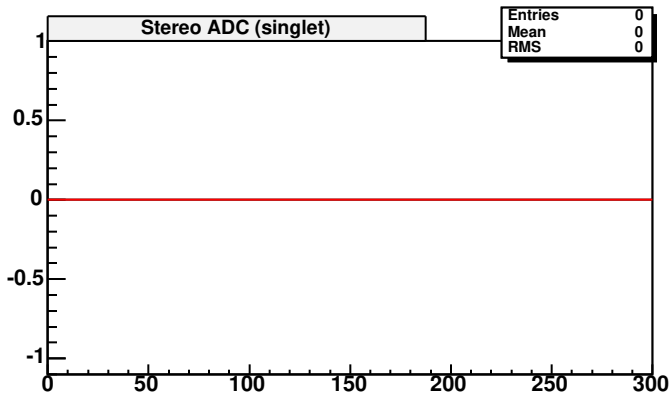


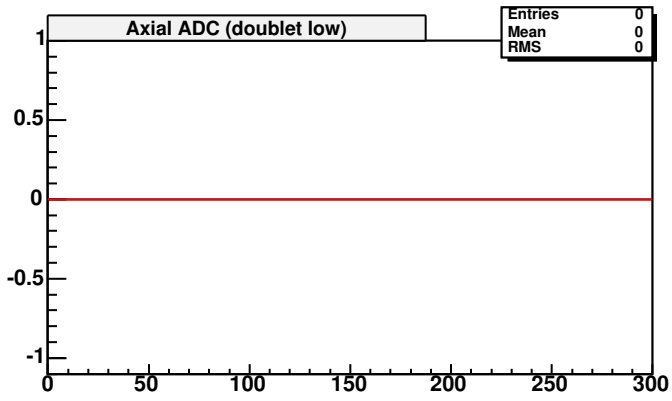
CFT Occupancy (Clusters on tracks)

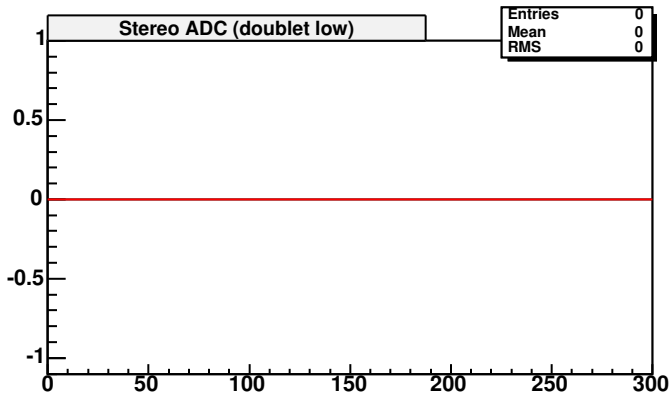


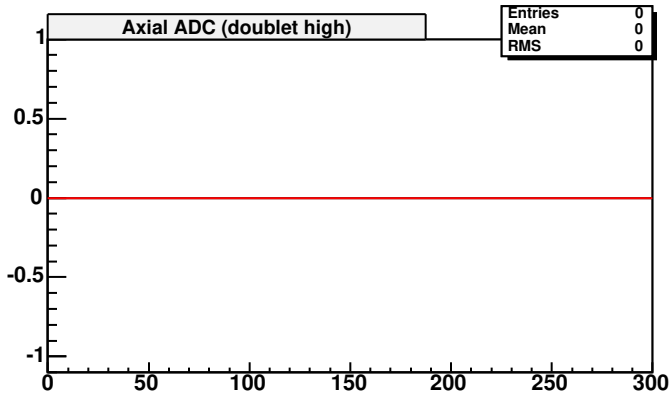


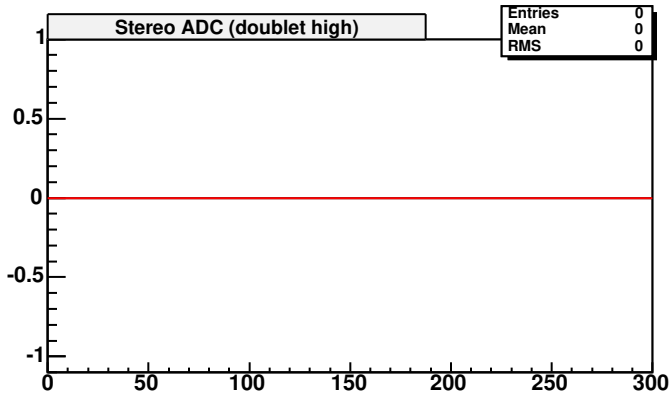




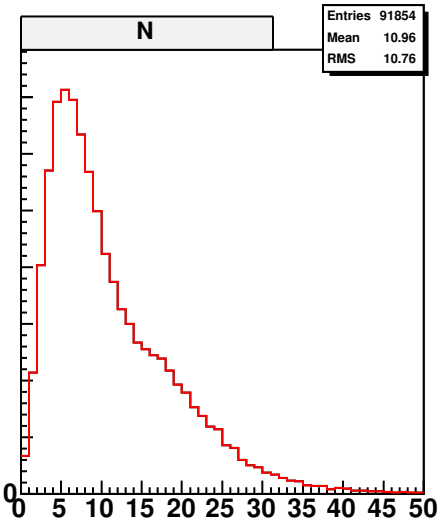


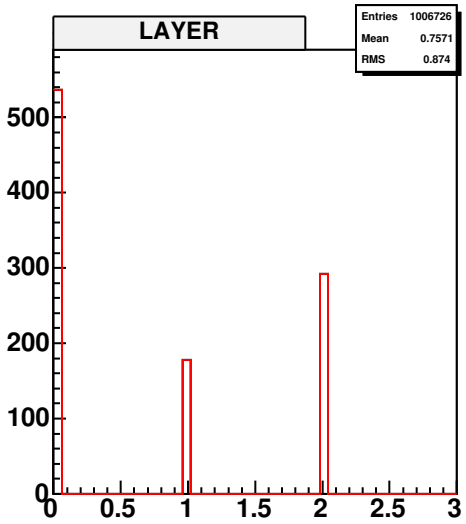


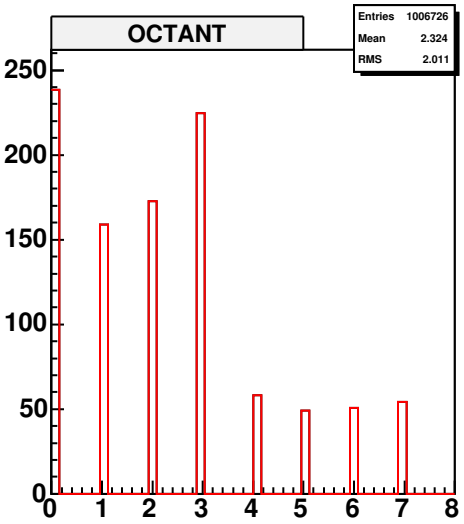


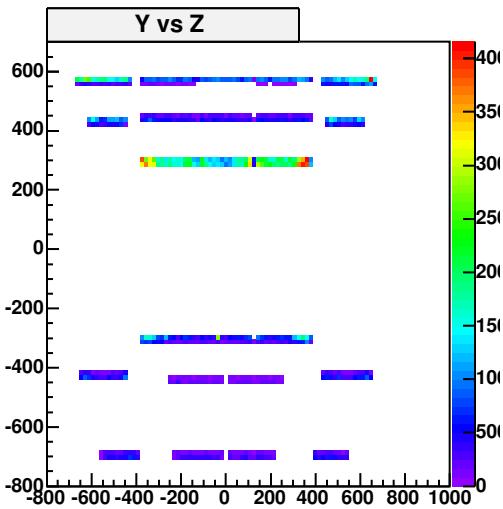


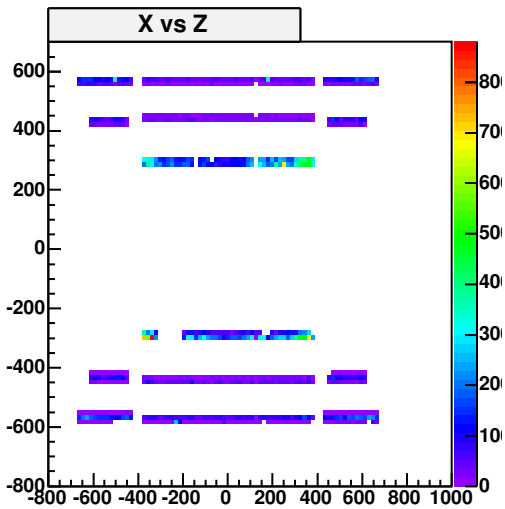
CFT ADC Summary (Clusters on tracks)

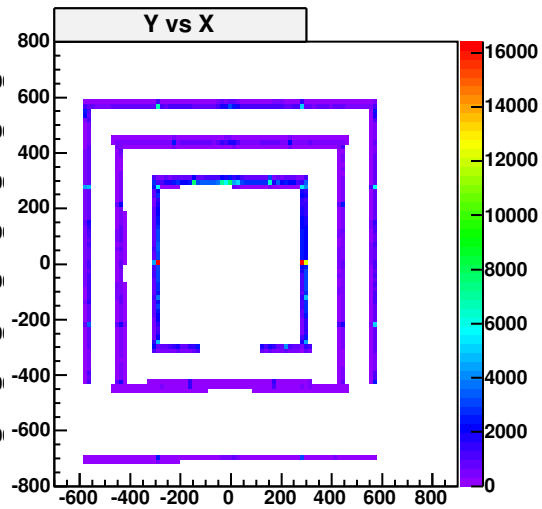

N
Entries 91854
Mean 10.96
RMS 10.76

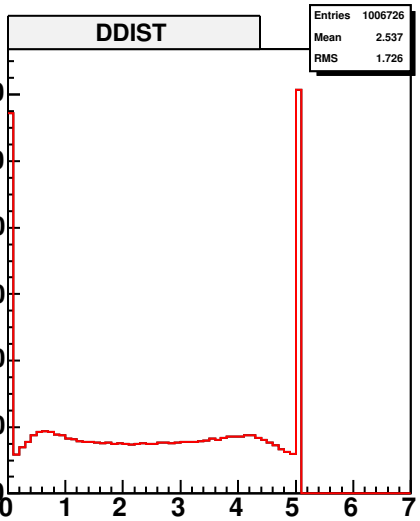

LAYER
Entries 1006726
Mean 0.7571
RMS 0.874

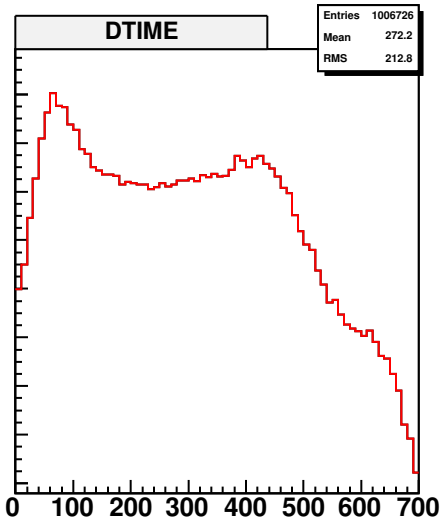

OCTANT
Entries 1006726
Mean 2.324
RMS 2.011


Y vs Z

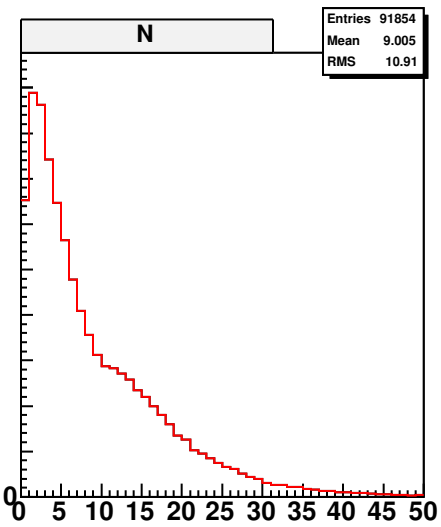

X vs Z

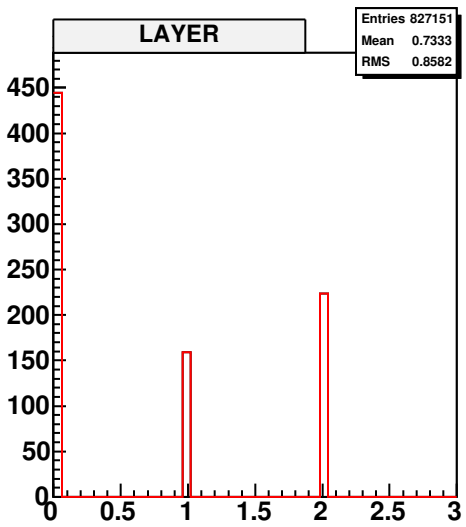

Y vs X

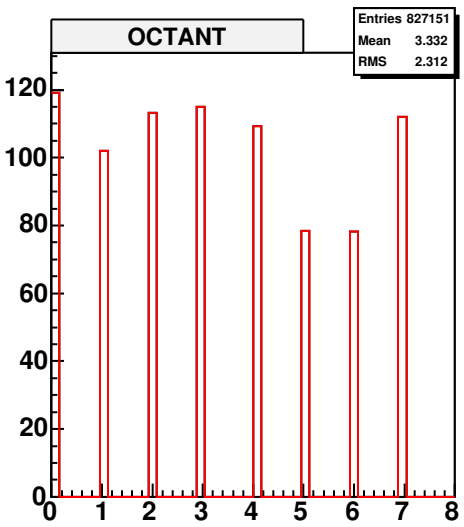

DDIST
Entries 1006726
Mean 2.537
RMS 1.726

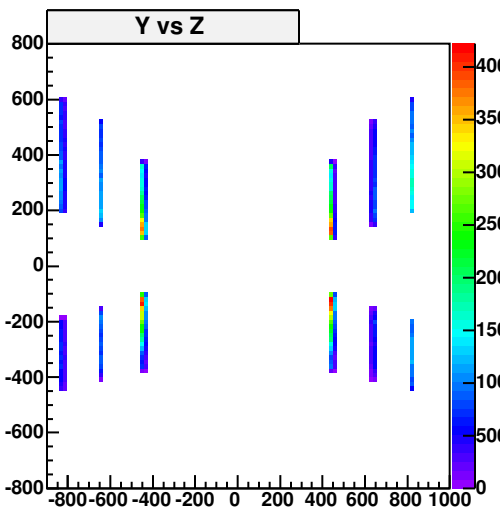

DTIME
Entries 1006726
Mean 272.2
RMS 212.8

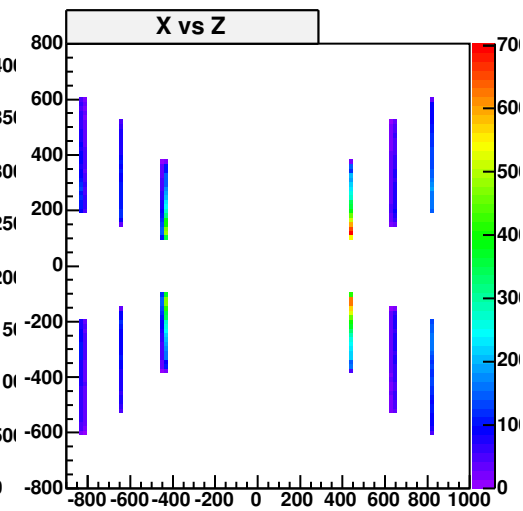
MuonPDT (All)

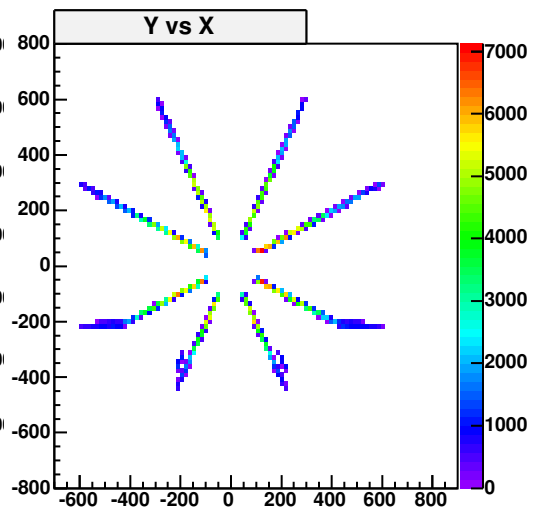

N
Entries 91854
Mean 9.005
RMS 10.91

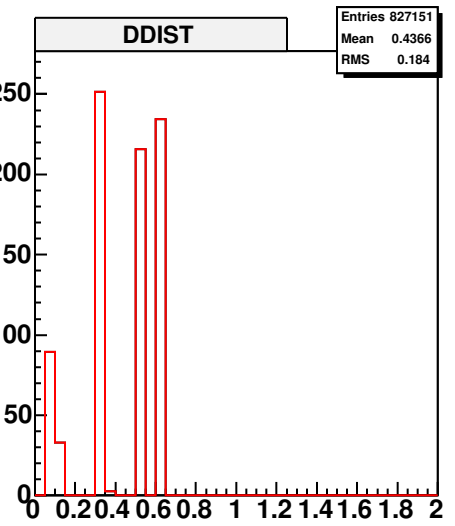

LAYER
Entries 827151
Mean 0.7333
RMS 0.8582

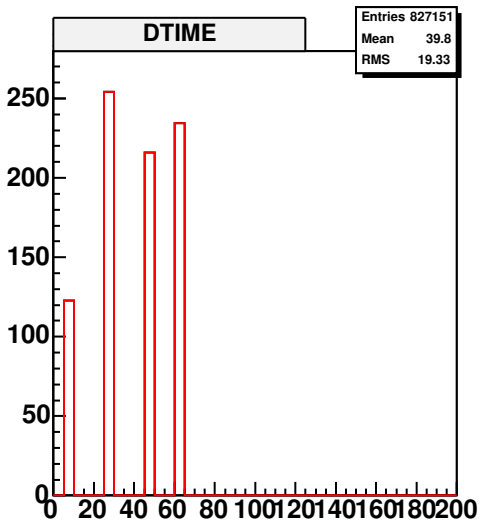

OCTANT
Entries 827151
Mean 3.332
RMS 2.312


Y vs Z

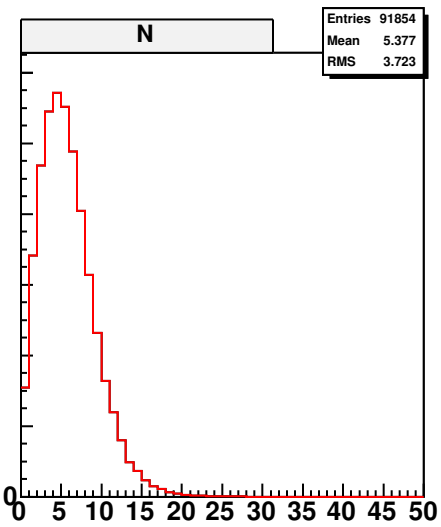

X vs Z

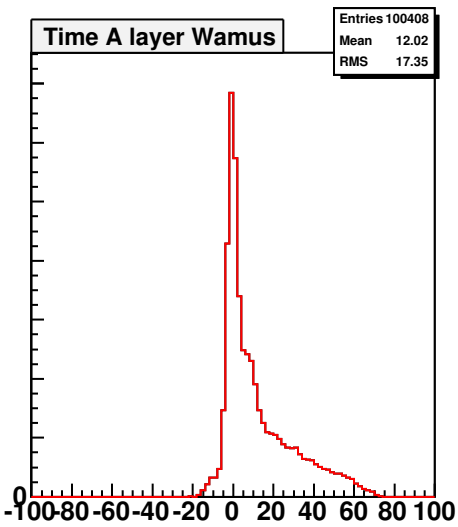

Y vs X

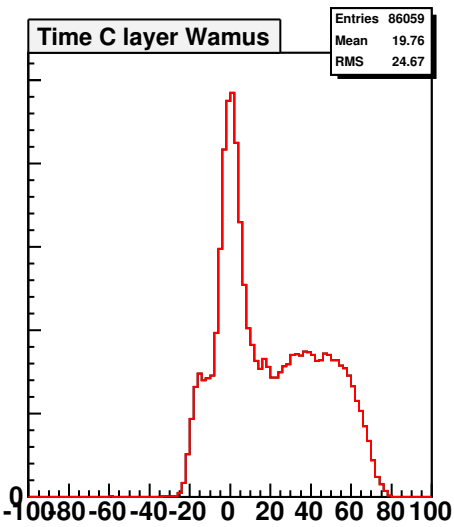

DDIST
Entries 827151
Mean 0.4366
RMS 0.184

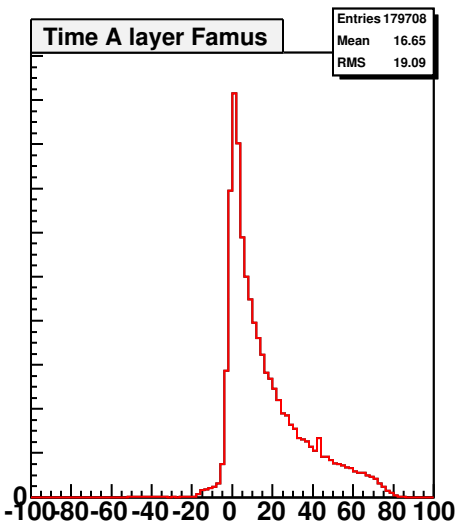

DTIME
Entries 827151
Mean 39.8
RMS 19.33

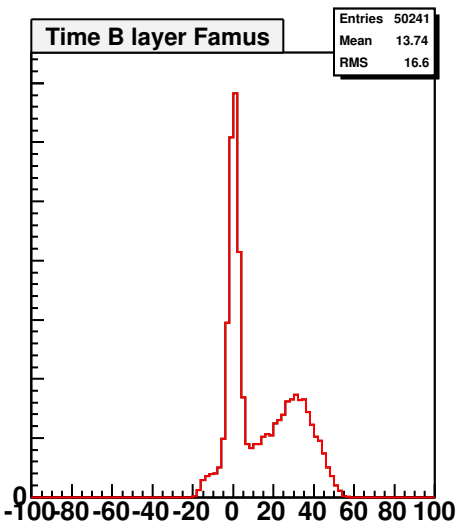
MuonMDT (All)

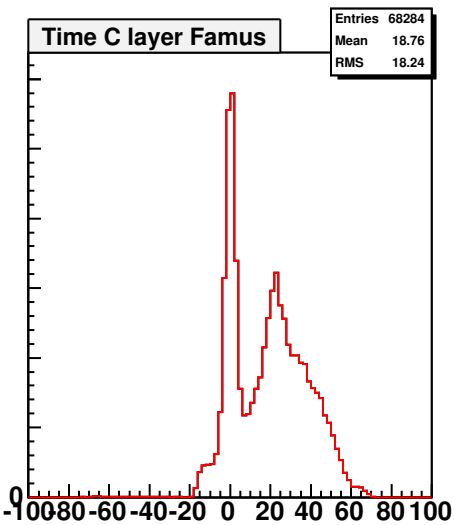

N
Entries 91854
Mean 5.377
RMS 3.723

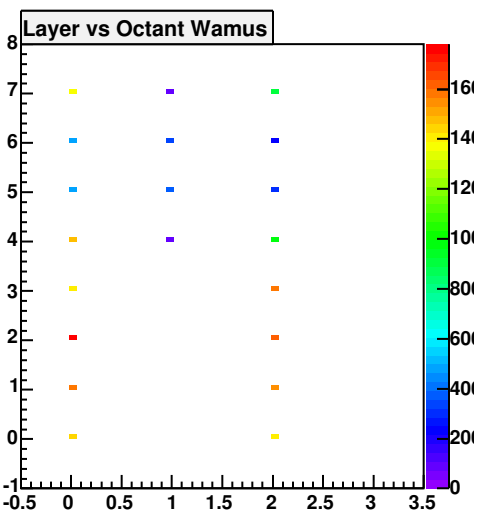

Time A layer Wamus
Entries 100408
Mean 12.02
RMS 17.35

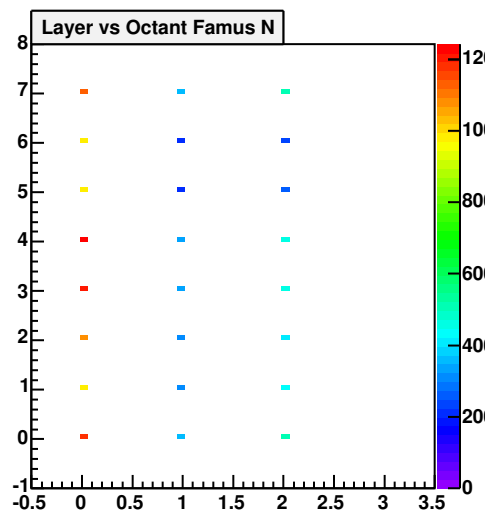

Time C layer Wamus
Entries 86059
Mean 19.76
RMS 24.67

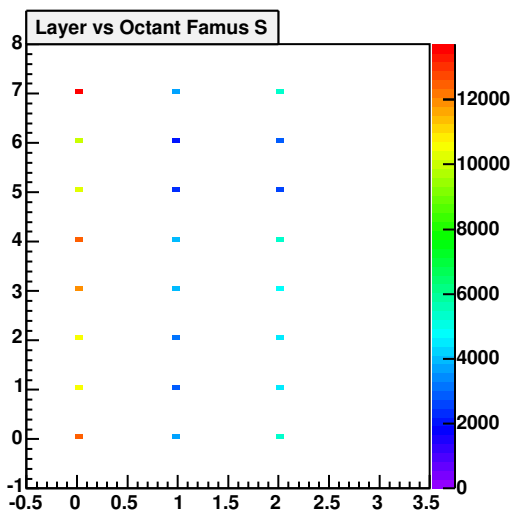

Time A layer Famus
Entries 179708
Mean 16.65
RMS 19.09


Time B layer Famus
Entries 50241
Mean 13.74
RMS 16.6

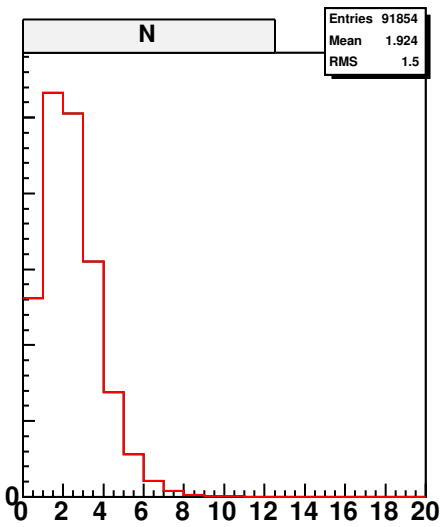

Time C layer Famus
Entries 68284
Mean 18.76
RMS 18.24

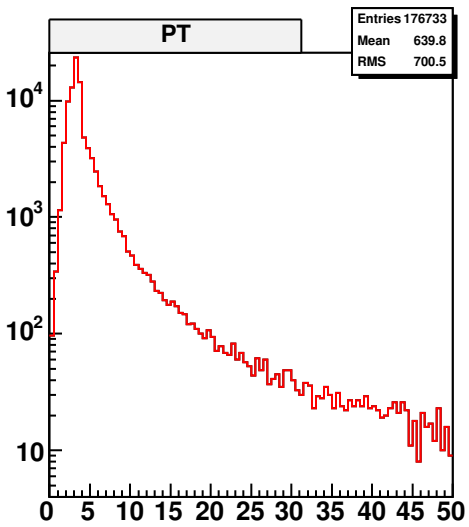

Layer vs Octant Wamus

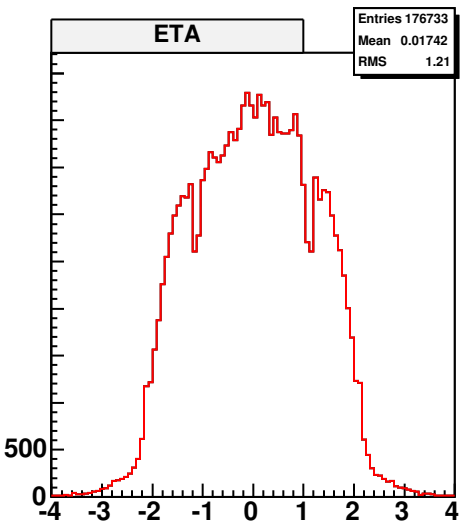

Layer vs Octant Famus N

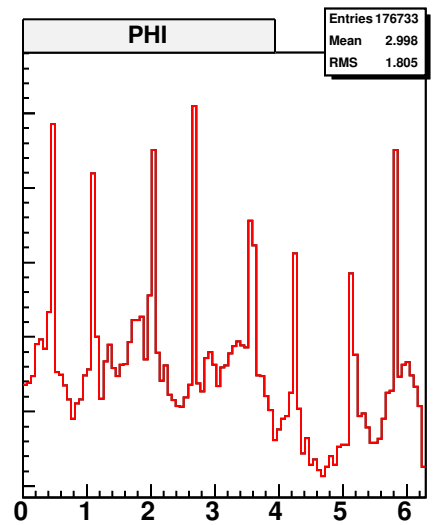

Layer vs Octant Famus S

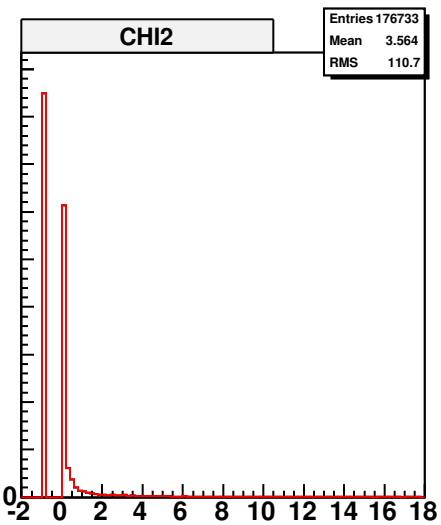
MuonMSC (All)

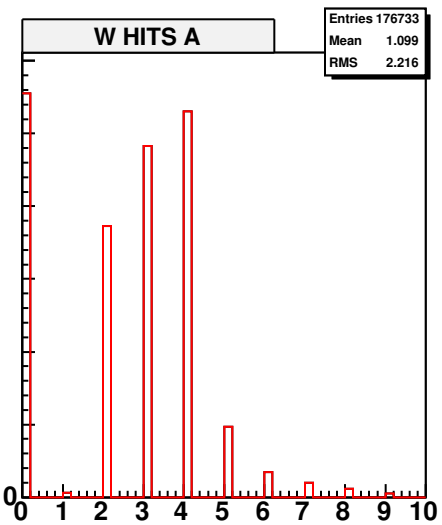


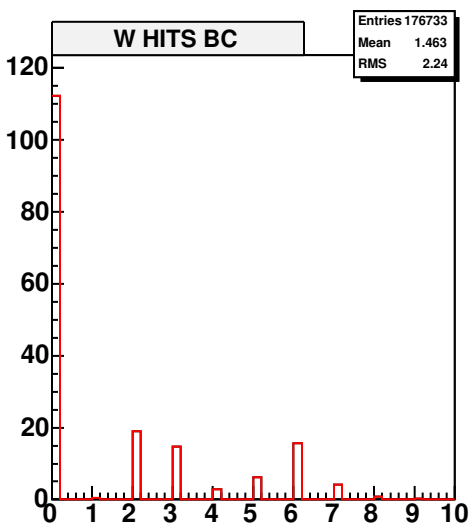


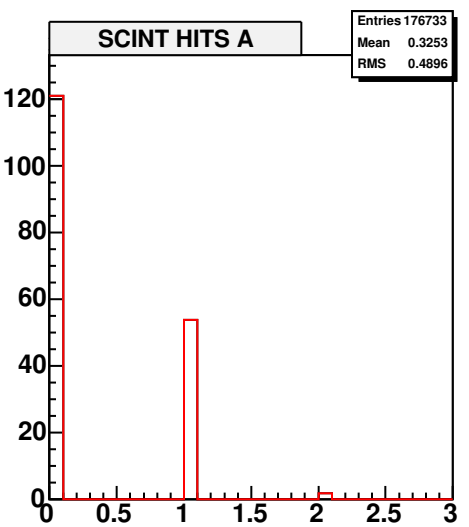


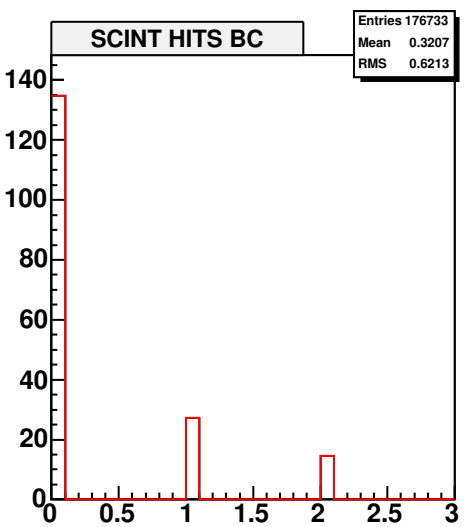




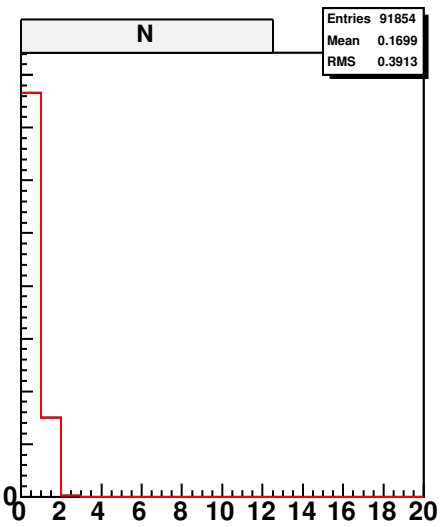


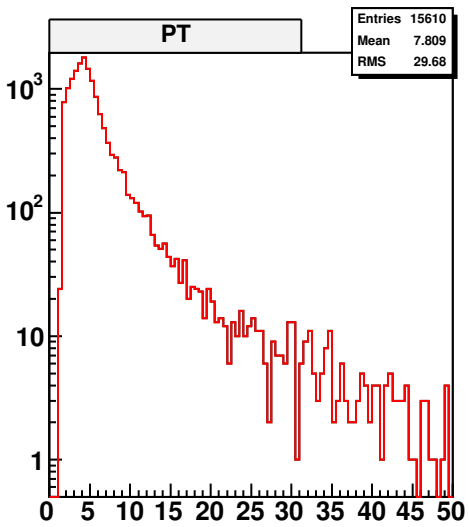


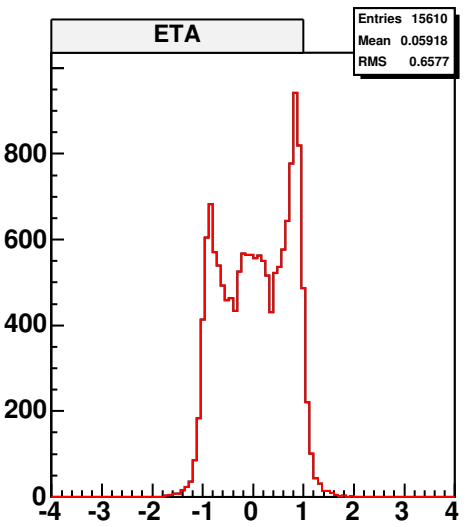


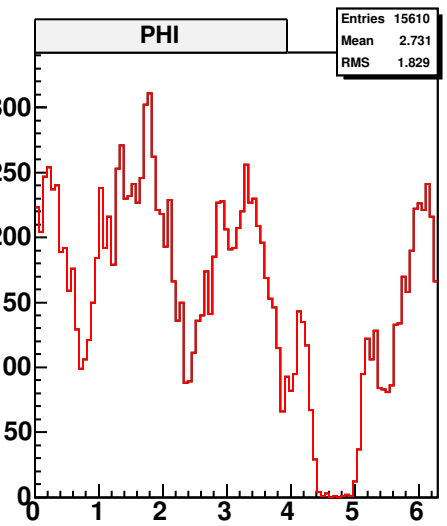


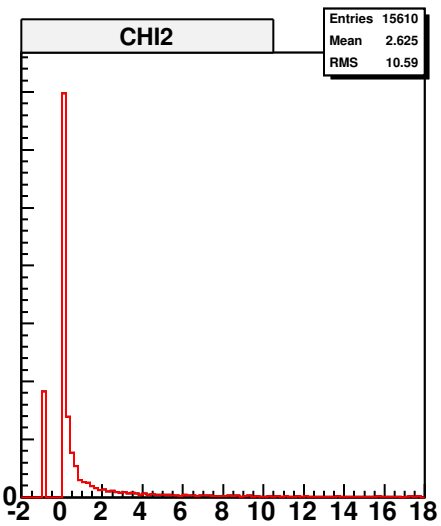
Muon Local Tracks (All)

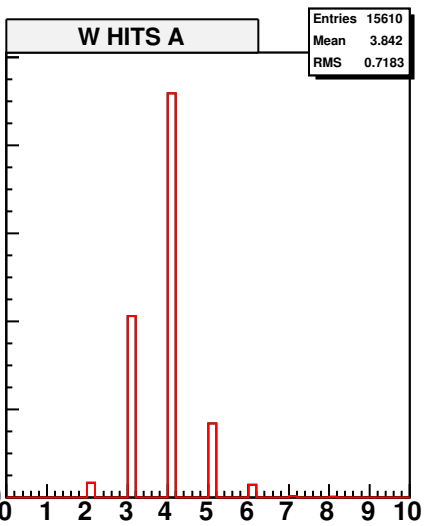


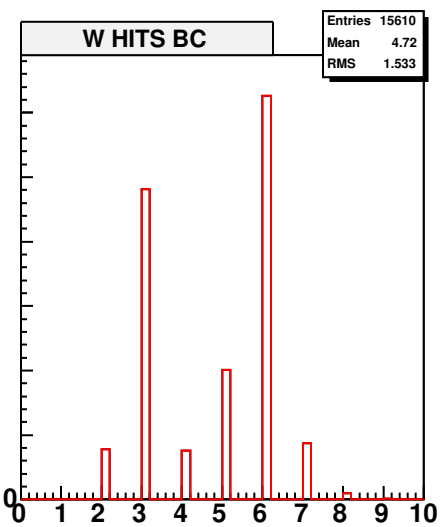


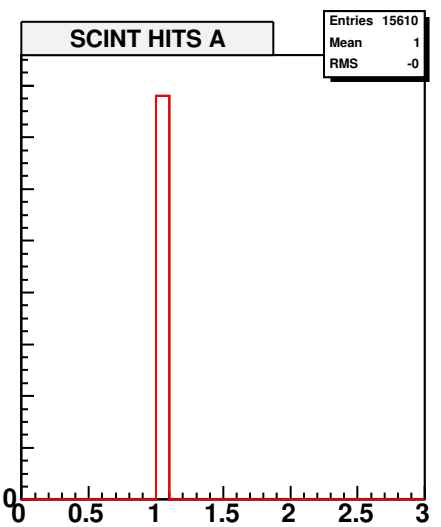


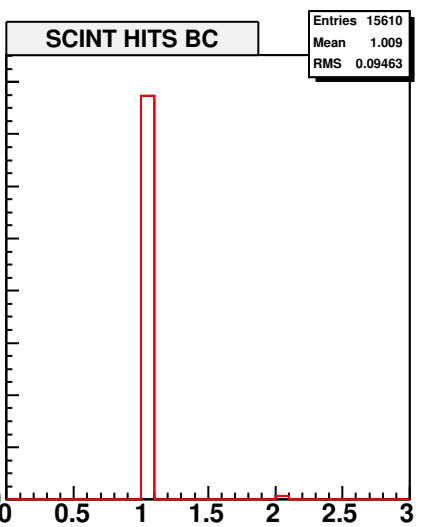




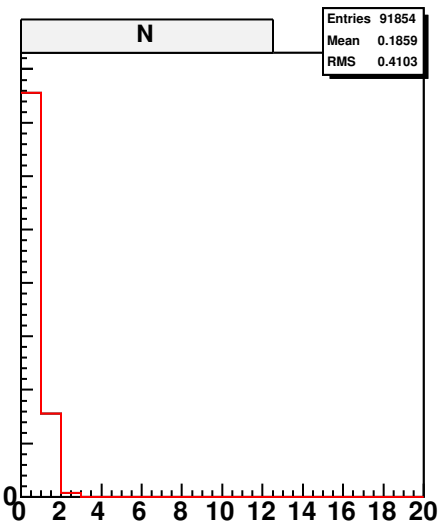


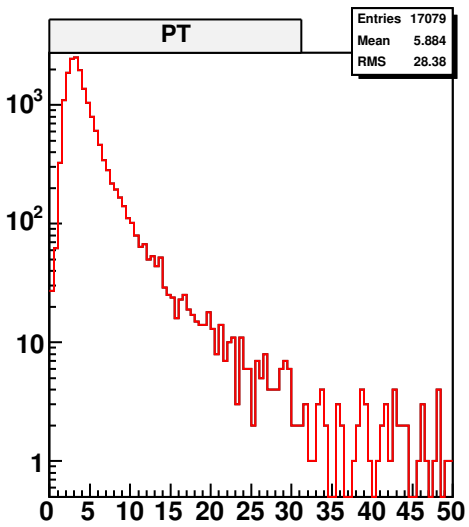


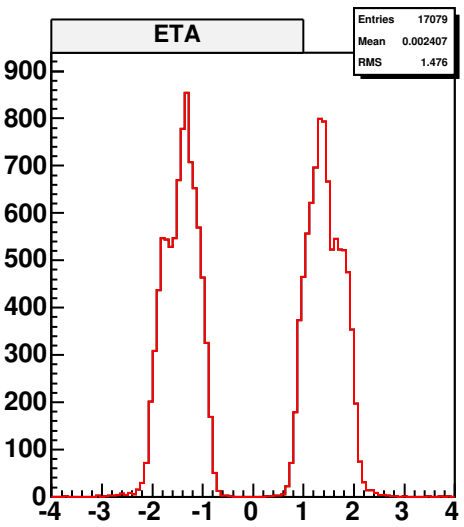


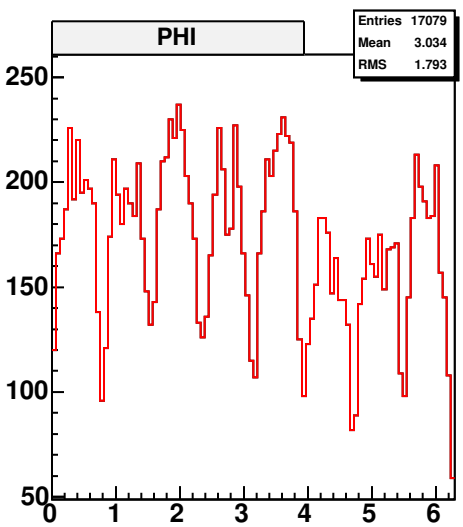


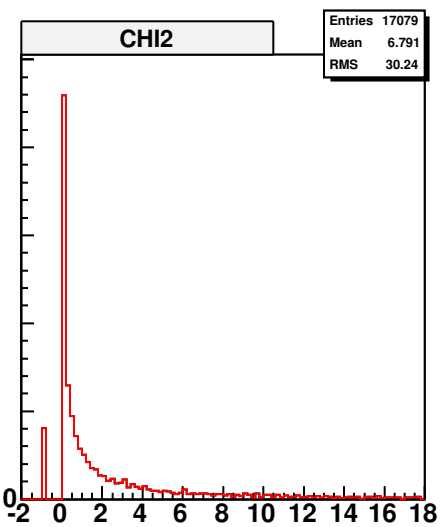
Muon Local Tracks (MediumWamus)

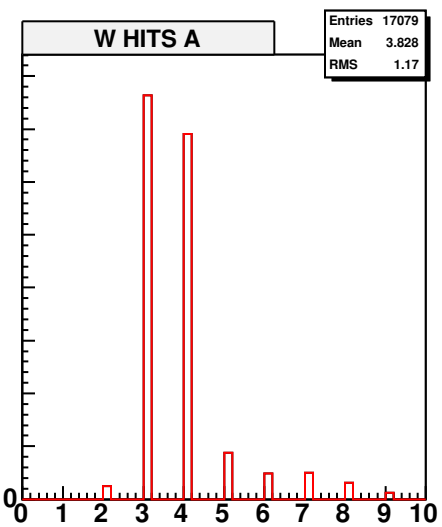


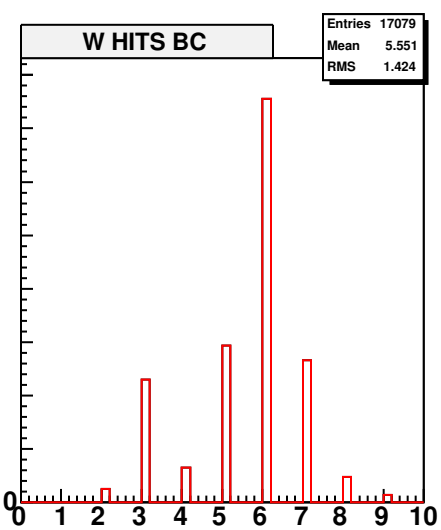


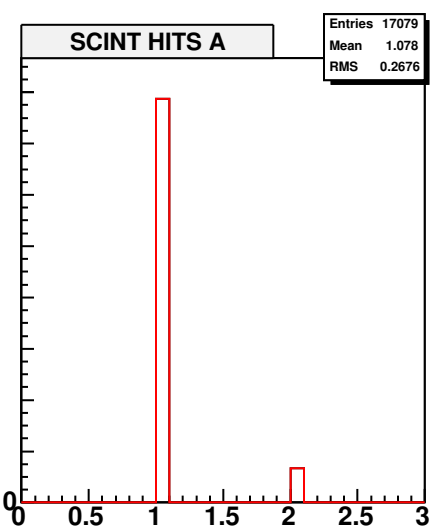


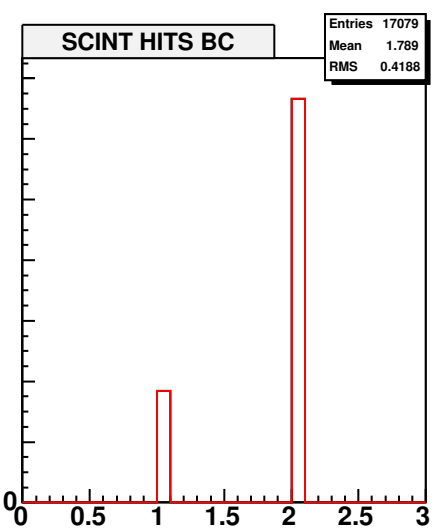




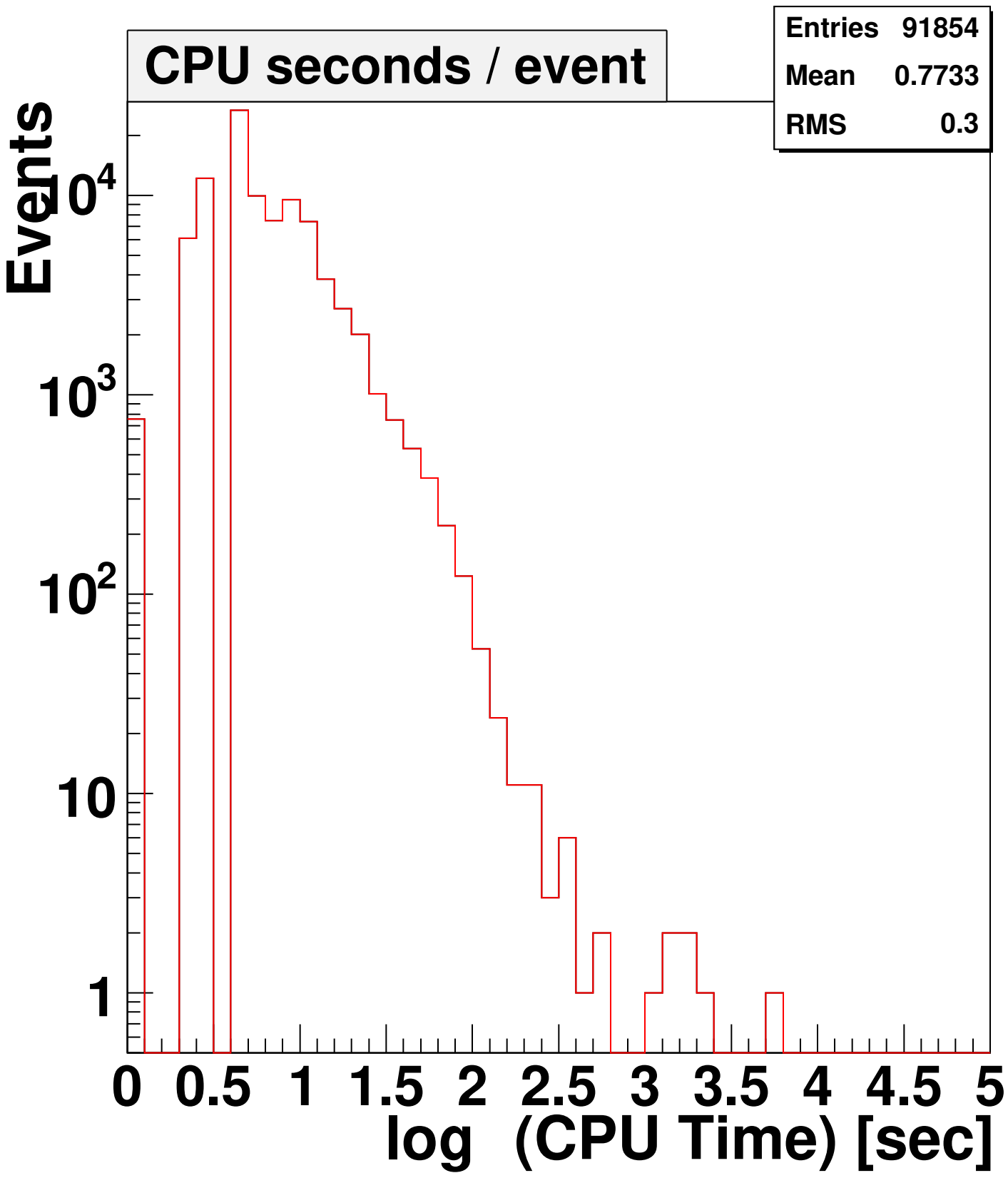








Muon Local Tracks (MediumFamus)



RECO Performance (Timing)