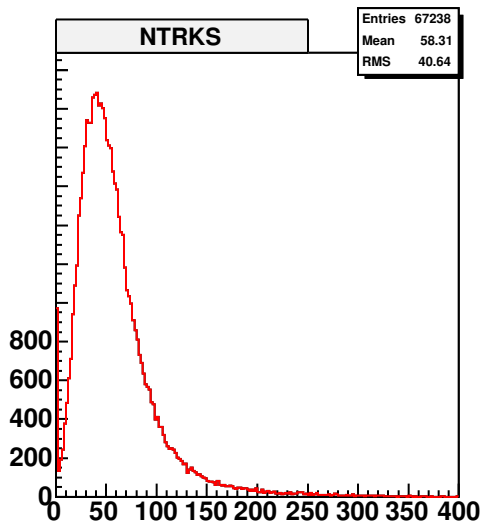
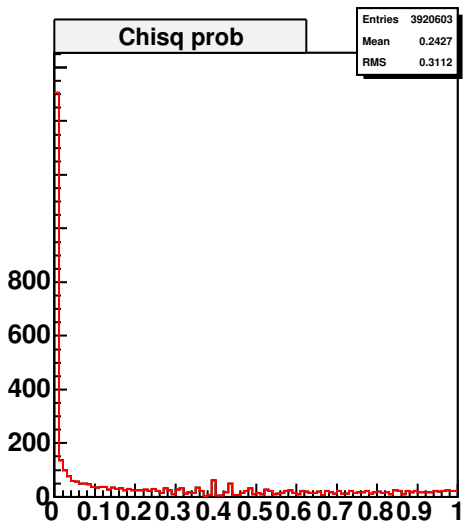
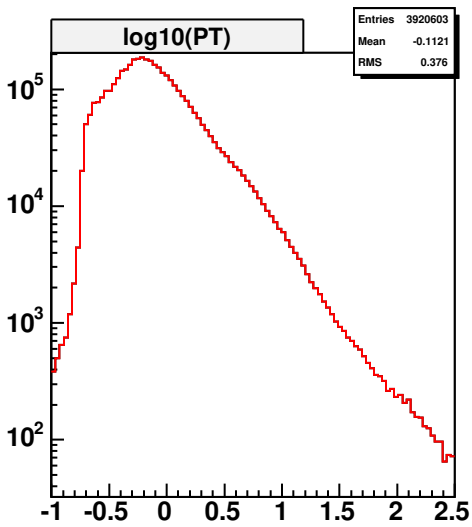
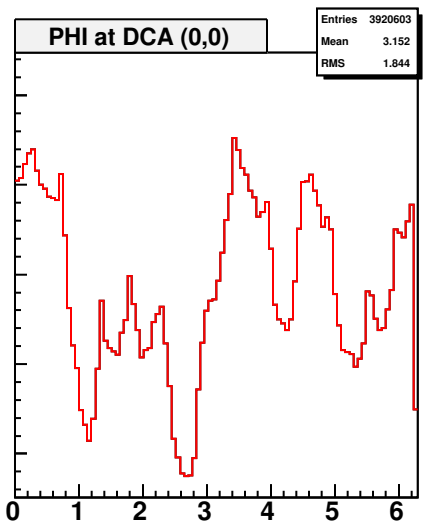
dayset-2004-06-23-194380-2_certification_

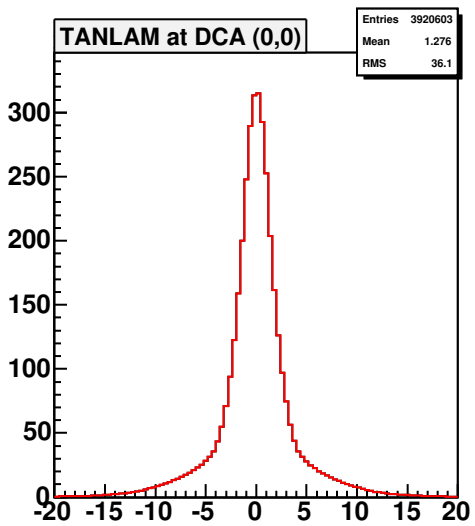
dayset-2004-06-23-194380-2_certification_

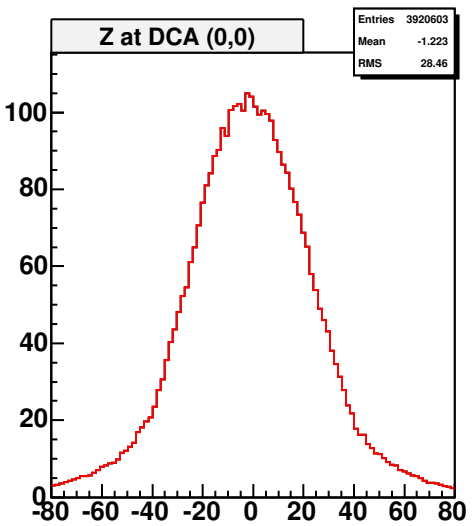

NTRKS
Entries 67238
Mean 58.31
RMS 40.64

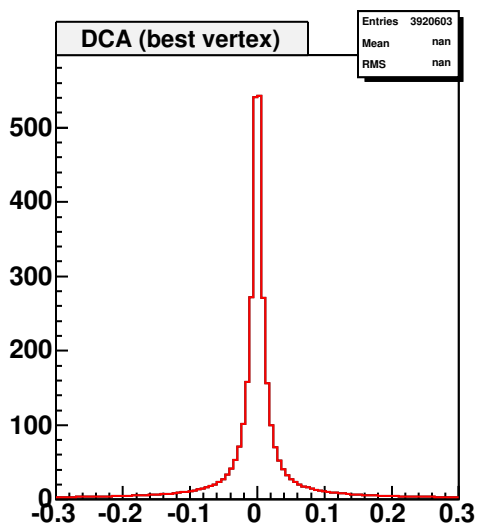

Chisq prob
Entries 3920603
Mean 0.2427
RMS 0.3112

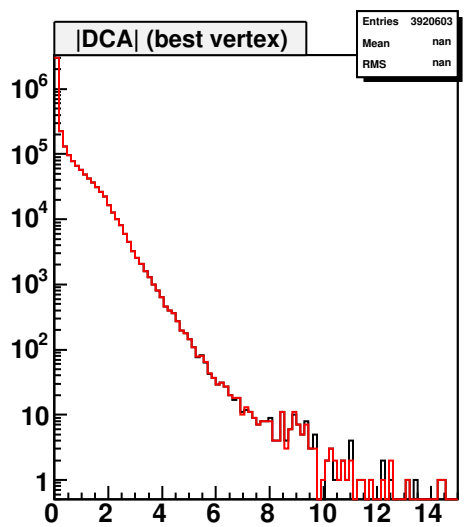

log10(PT)
Entries 3920603
Mean -0.1121
RMS 0.376

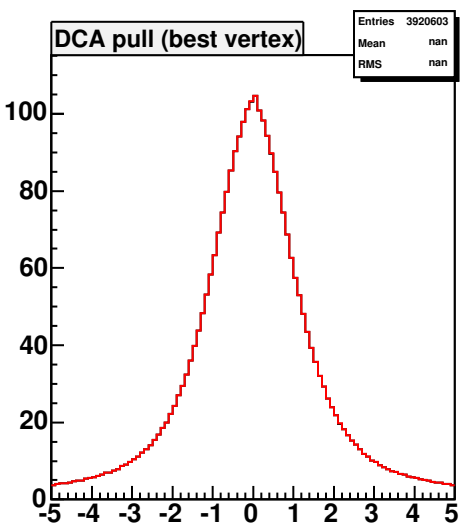

PHI at DCA (0,0)
Entries 3920603
Mean 3.152
RMS 1.844


TANLAM at DCA (0,0)
Entries 3920603
Mean 1.276
RMS 36.1

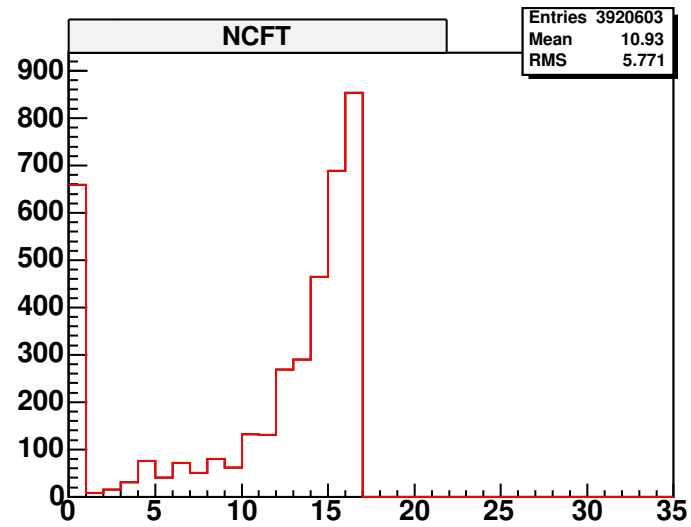

Z at DCA (0,0)
Entries 3920603
Mean -1.223
RMS 28.46

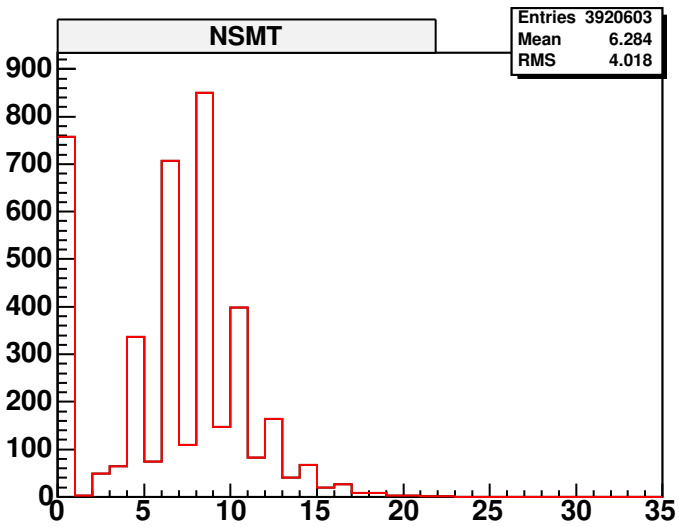

DCA (best vertex)
Entries 3920603
Mean nan
RMS nan

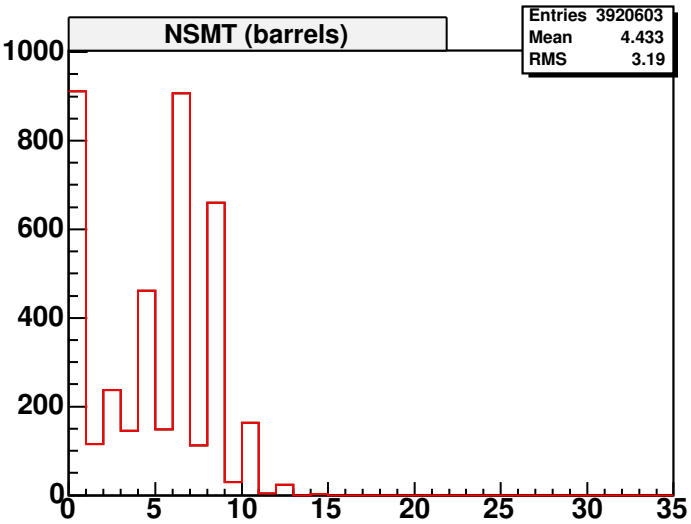

|DCA| (best vertex)
Entries 3920603
Mean nan
RMS nan

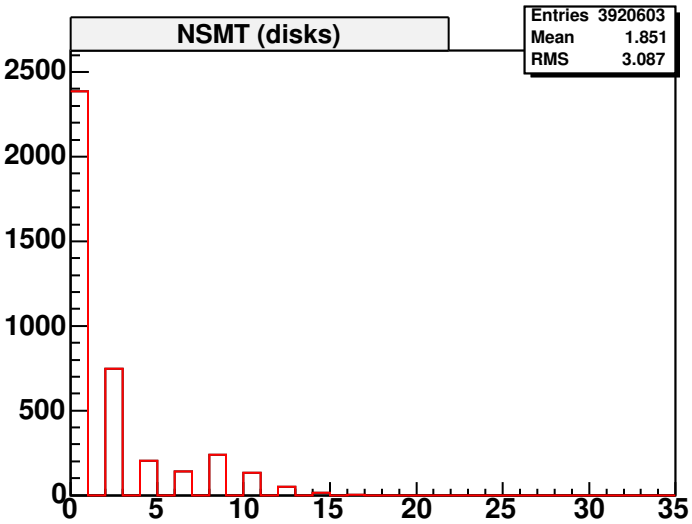

DCA pull (best vertex)
Entries 3920603
Mean nan
RMS nan

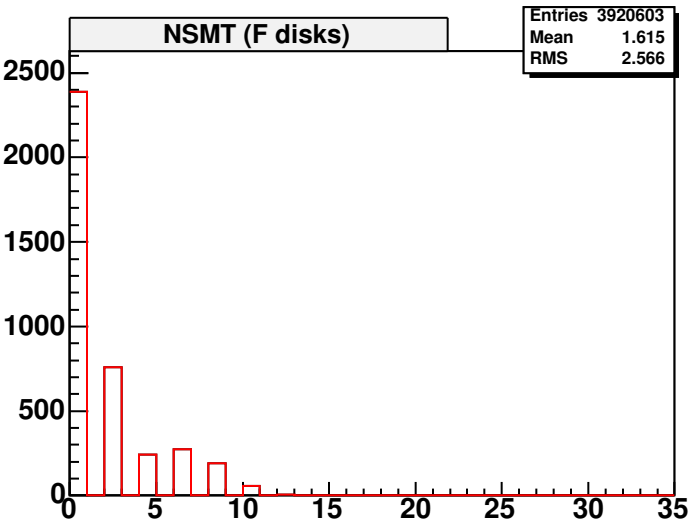
Tracks (All)

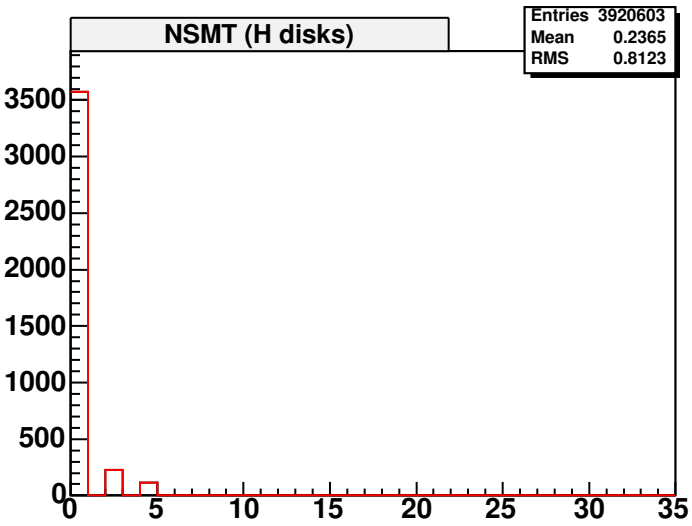




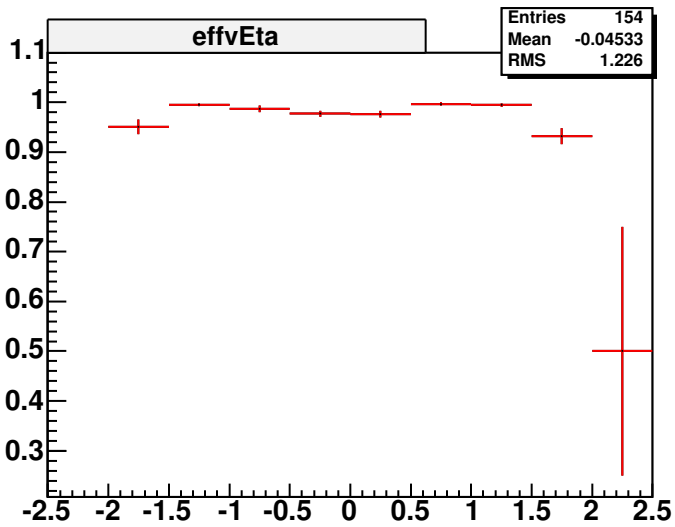


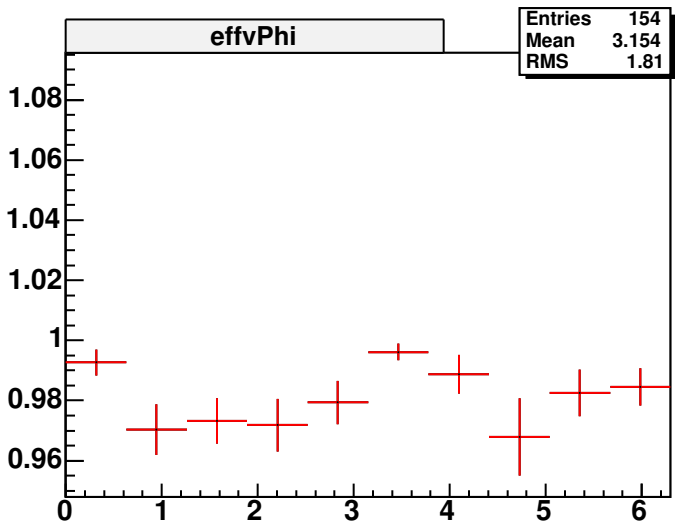


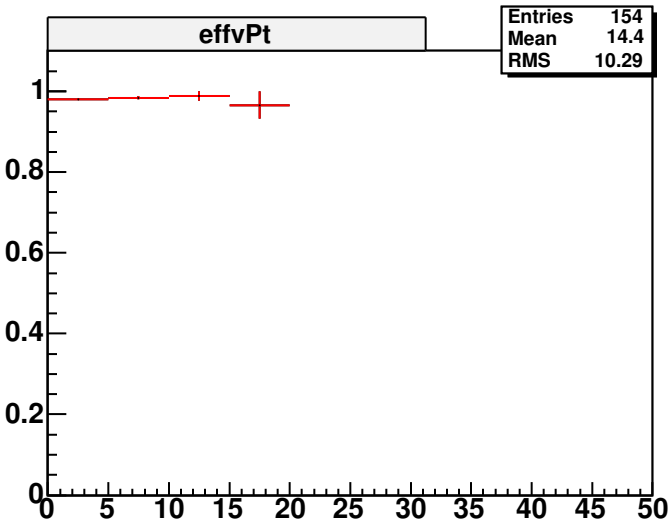


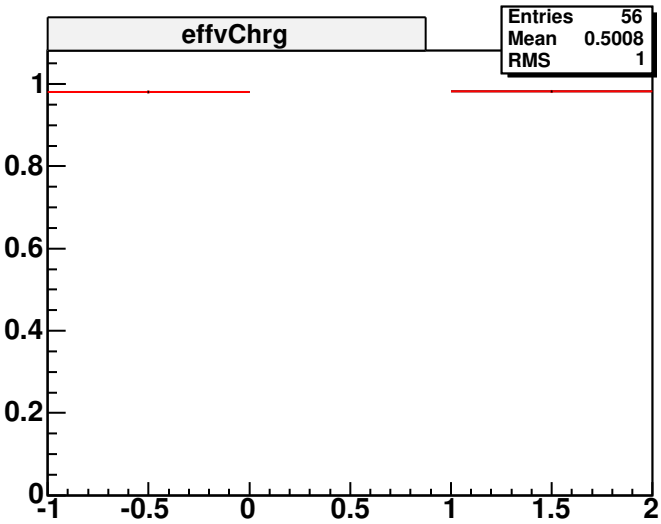


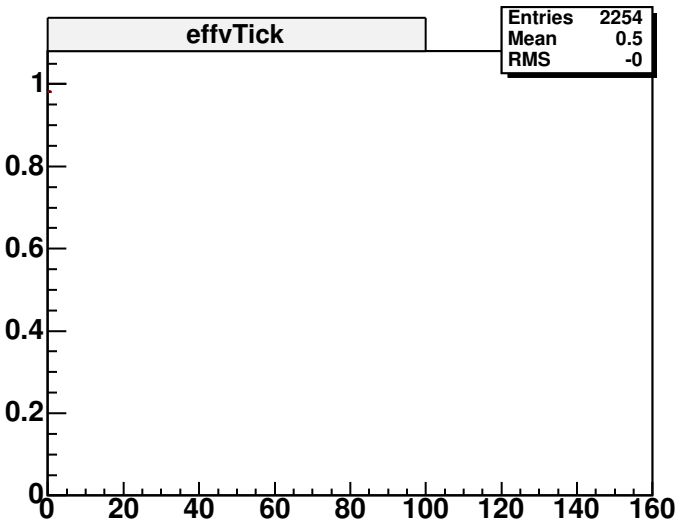
Track Hits (All)

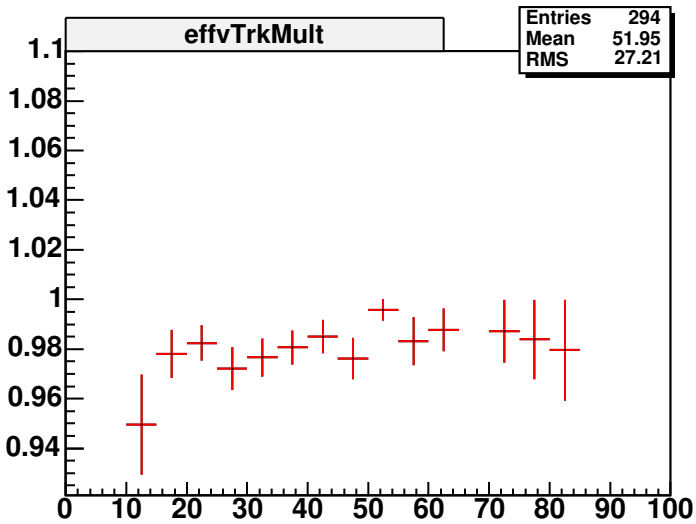




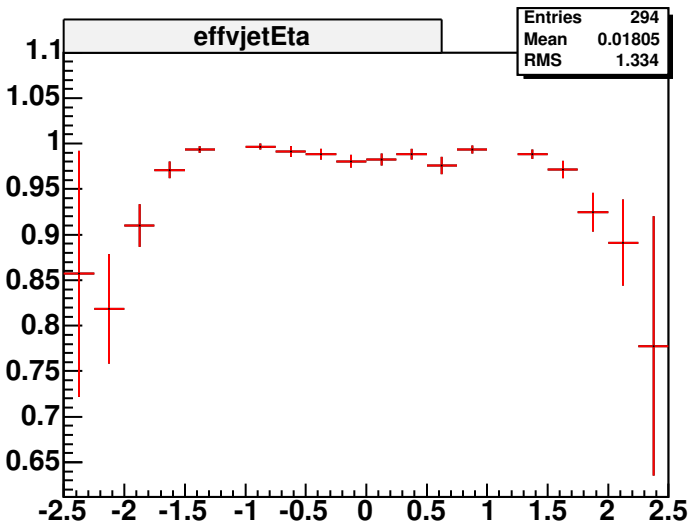


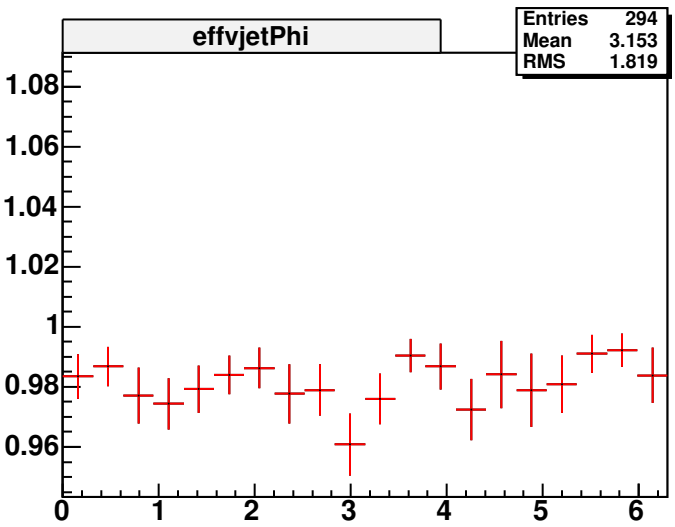


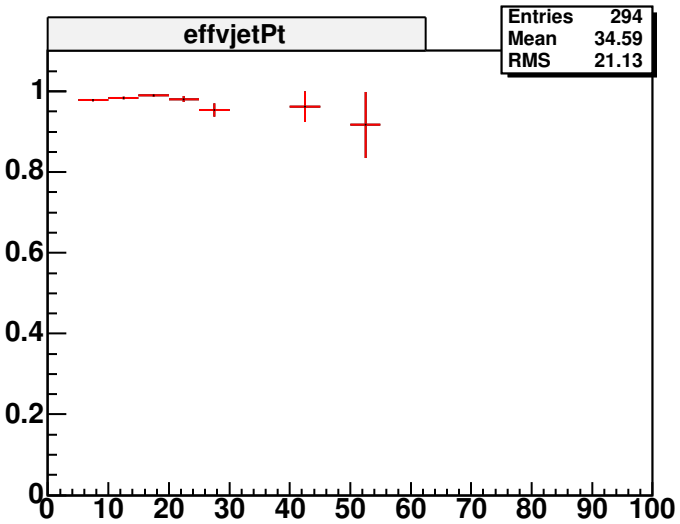




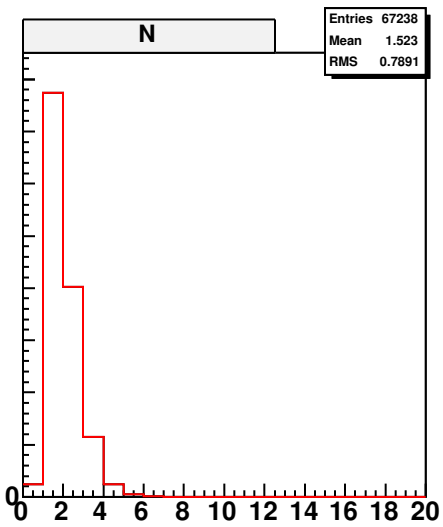
Tracking (Efficiency-Isolated)

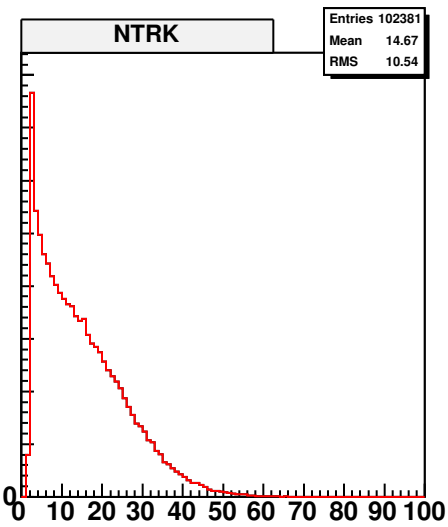


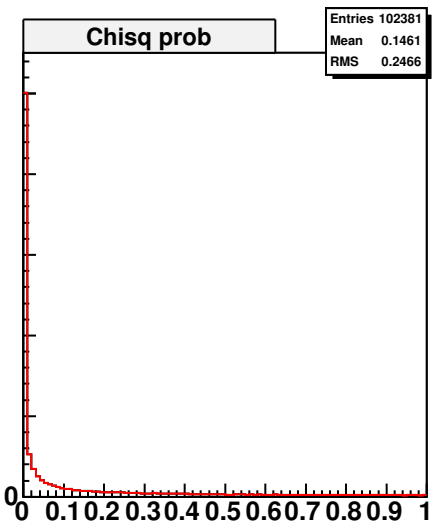


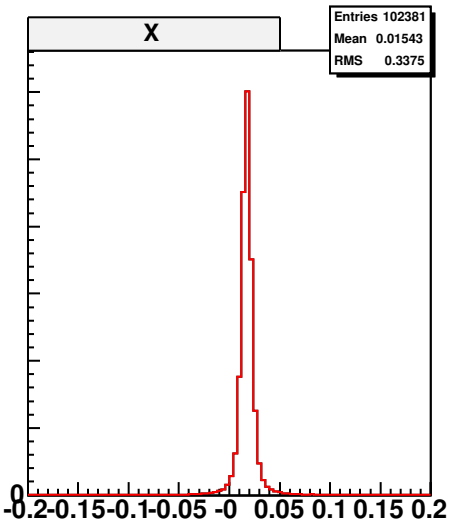


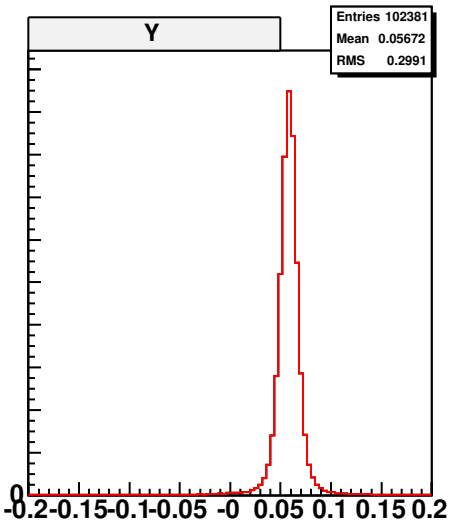
Tracking (Efficiency-InJets)

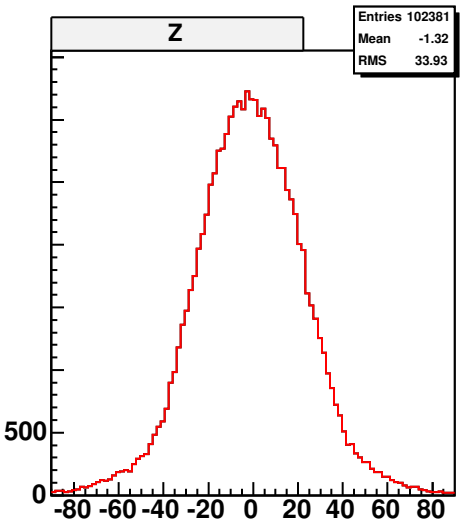


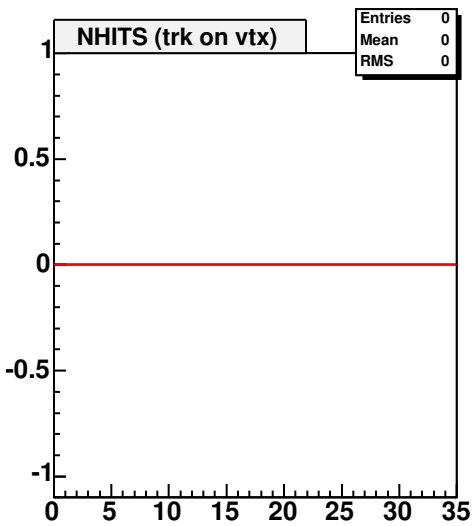


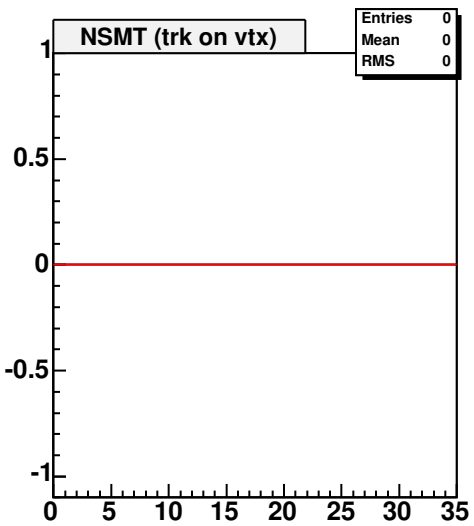


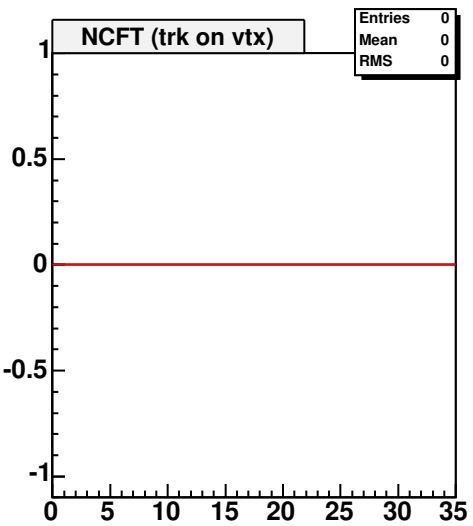




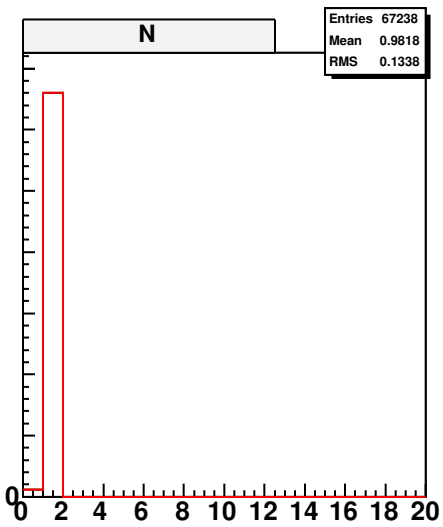


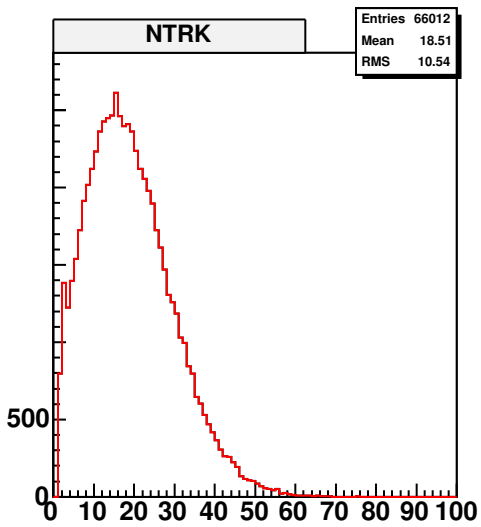


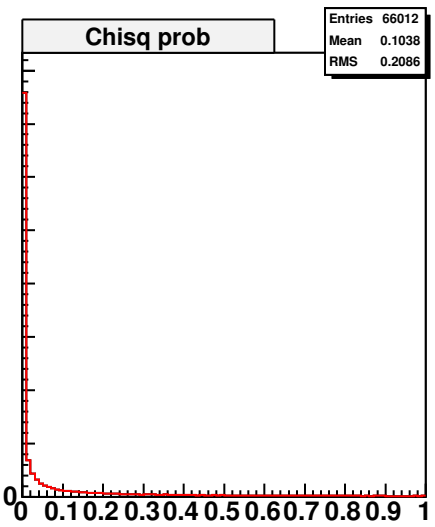


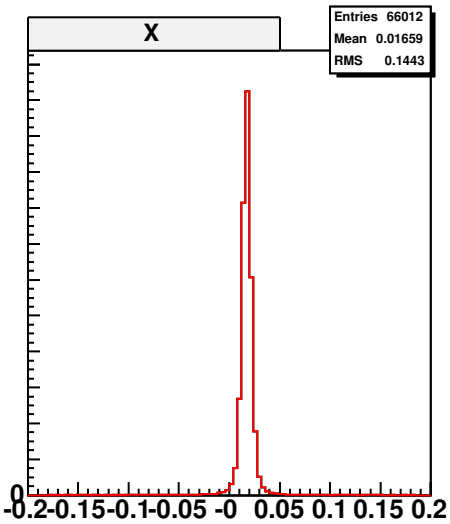


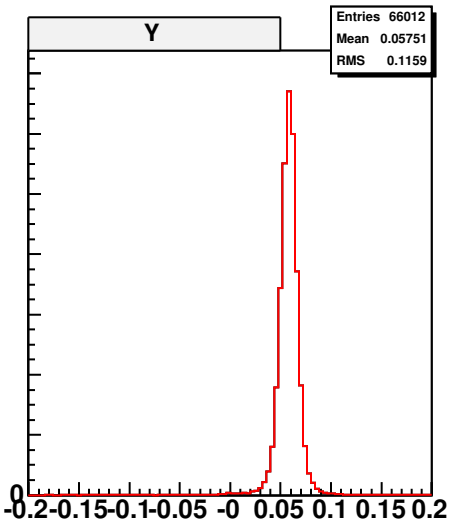
Vertices (Primary - all candidates)

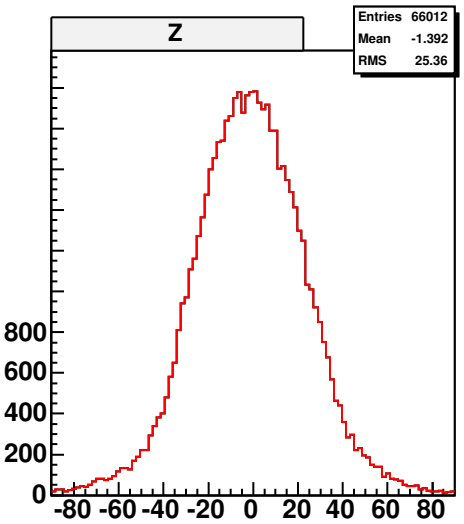


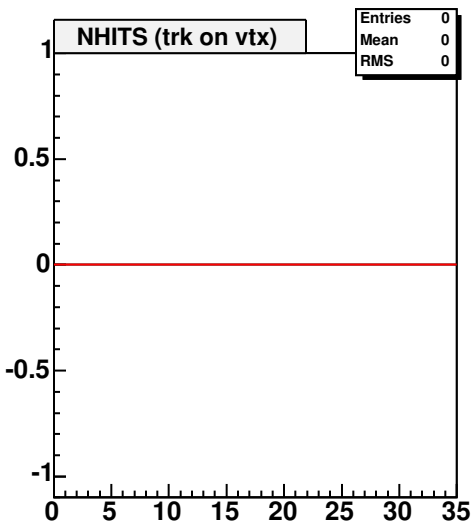


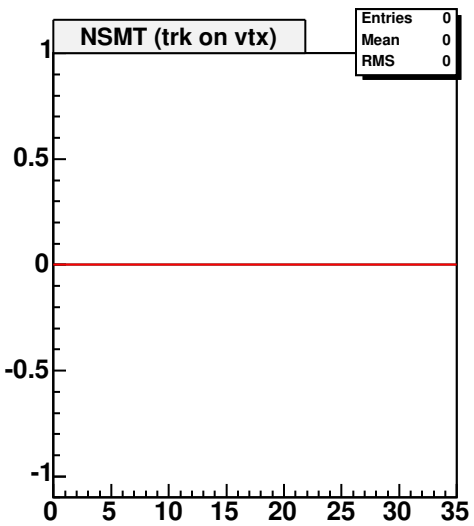


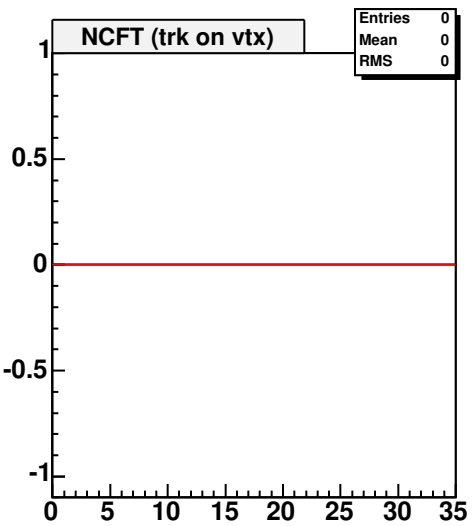




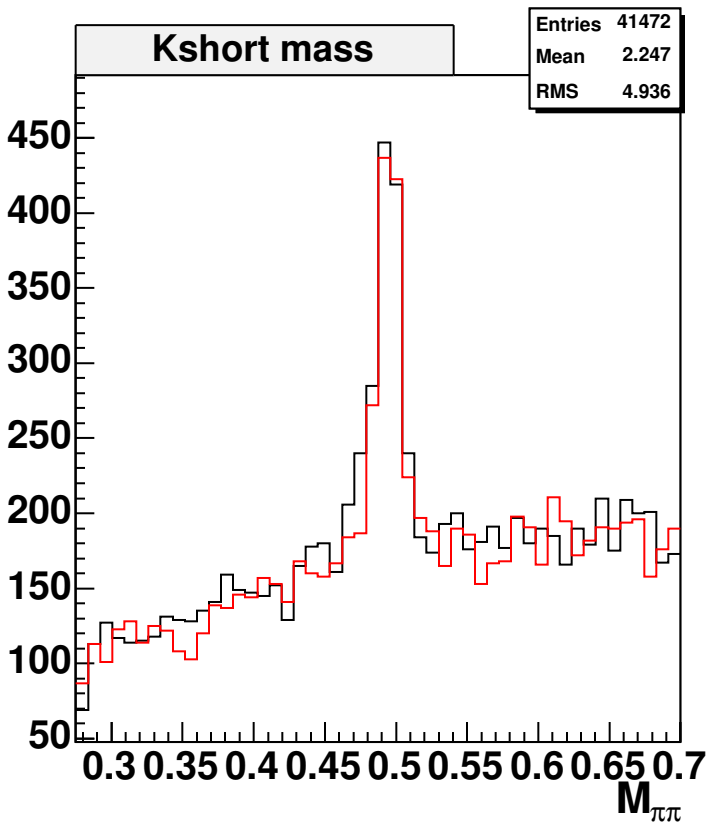


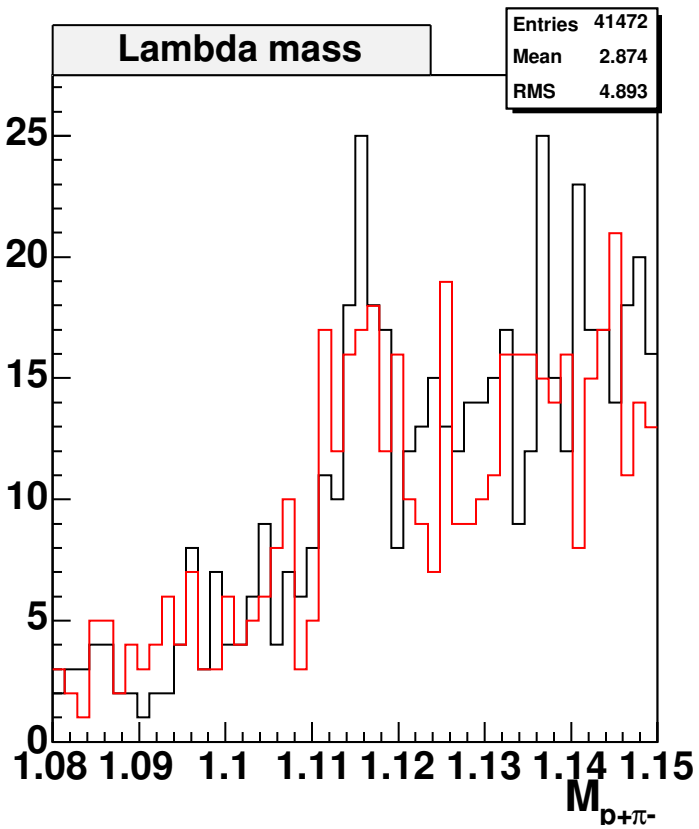


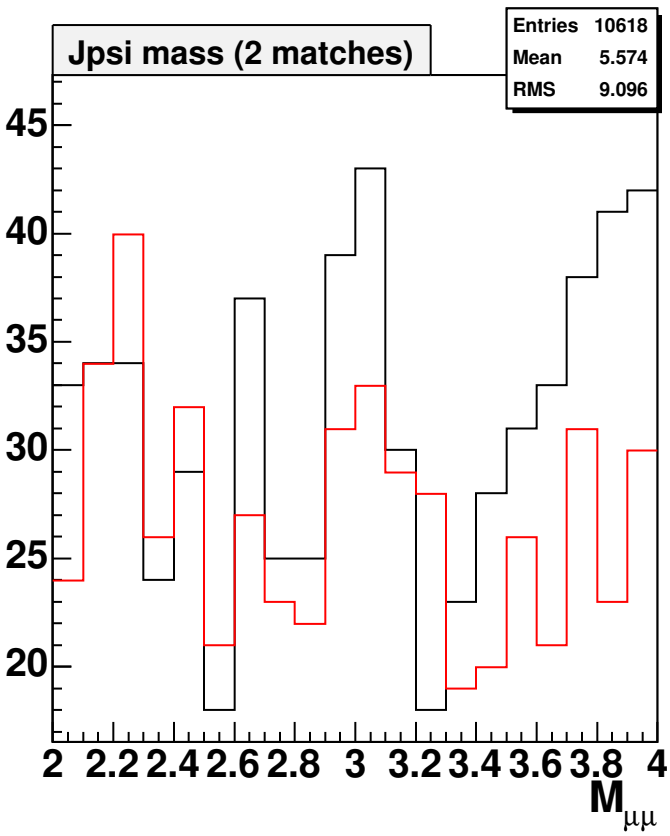


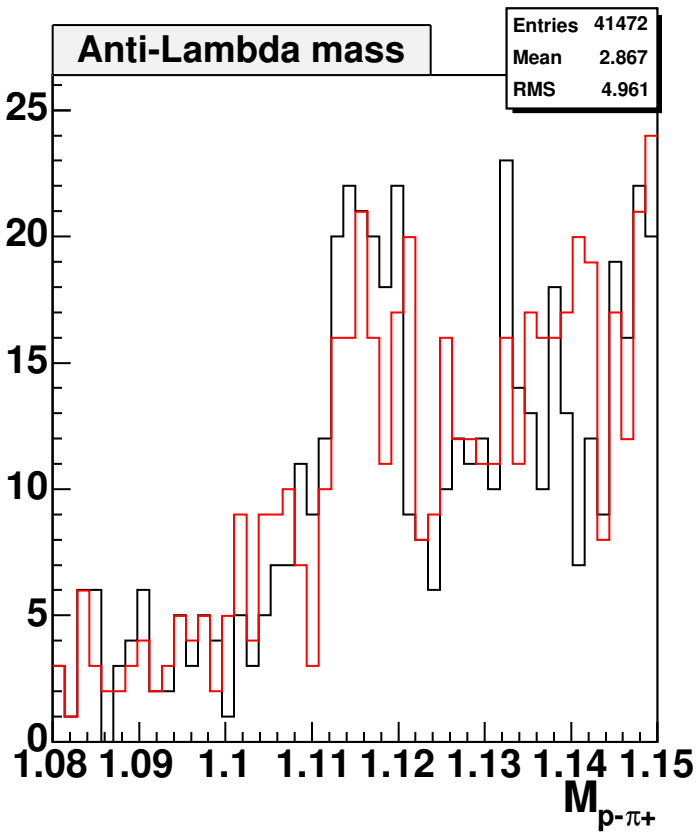


Vertices (Primary - best)

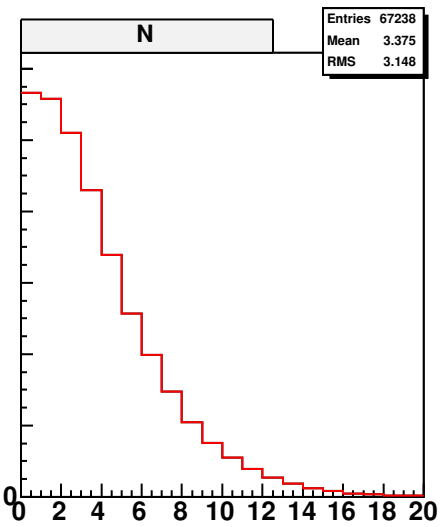

Kshort mass
Entries 41472
Mean 2.247
RMS 4.936
450
400
350
300
250
200
150
100
50
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

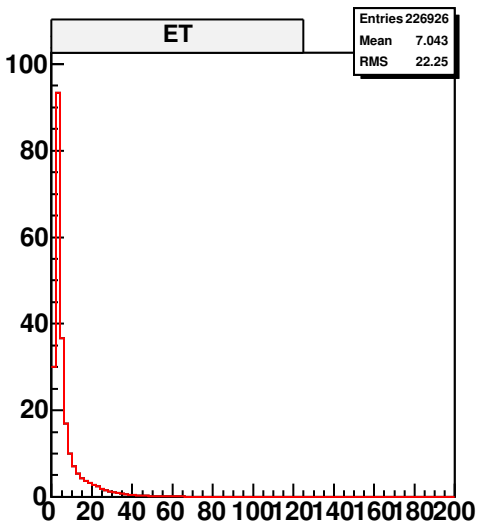

Lambda mass
Entries 41472
Mean 2.874
RMS 4.893
25
20
15
10
5
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

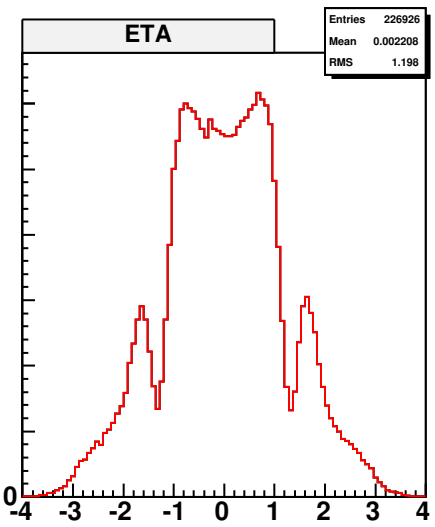

Jpsi mass (2 matches)
Entries 10618
Mean 5.574
RMS 9.096
45
40
35
30
25
20
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

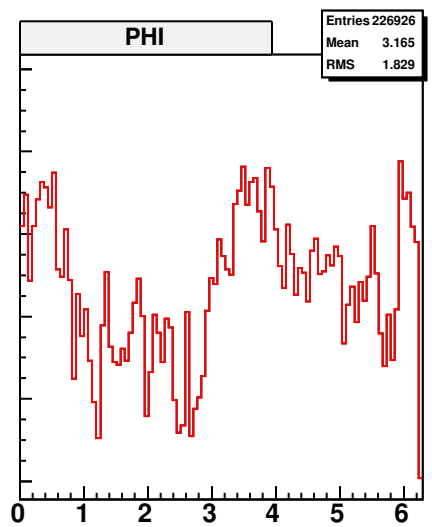

Anti-Lambda mass
Entries 41472
Mean 2.867
RMS 4.961
25
20
15
10
5
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

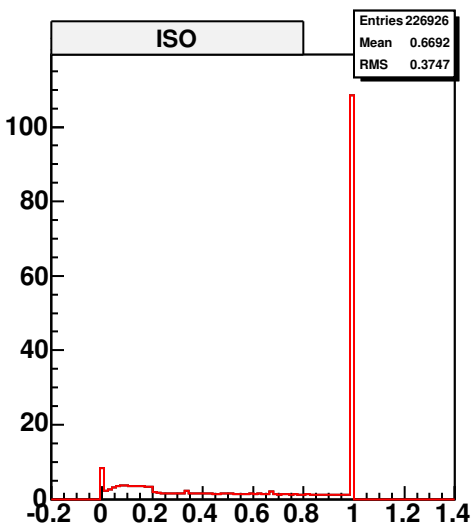
V0 (All)

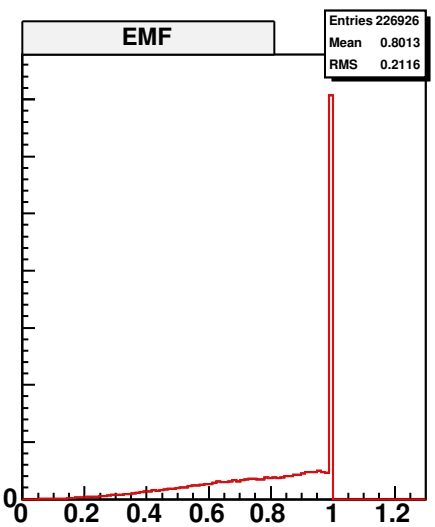


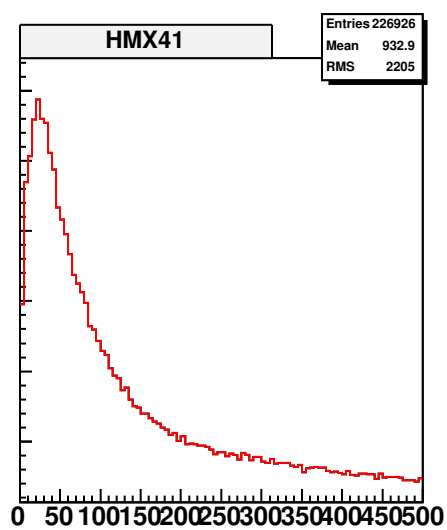


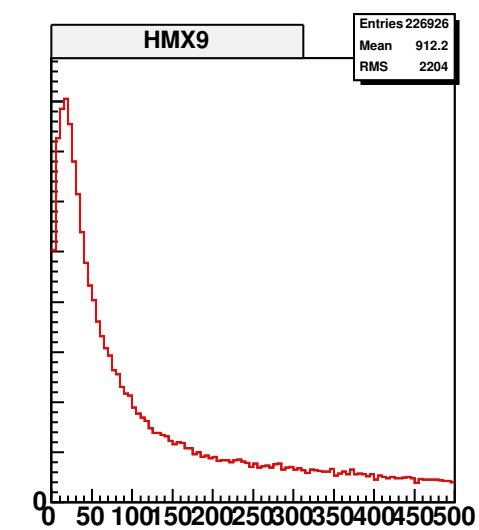


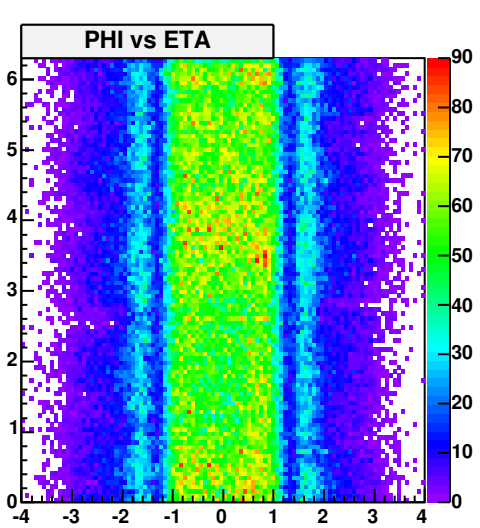




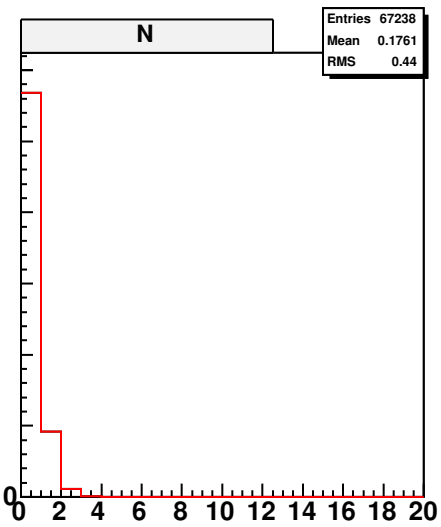


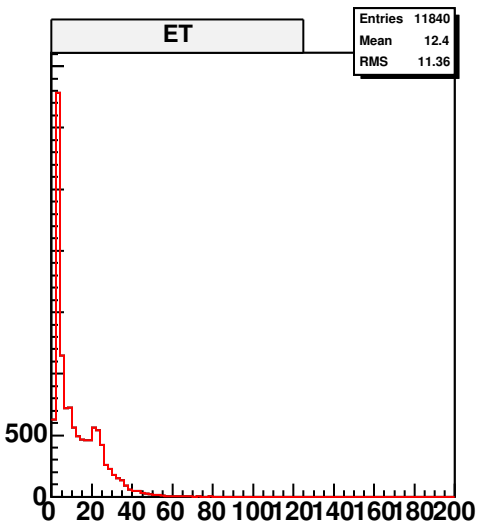


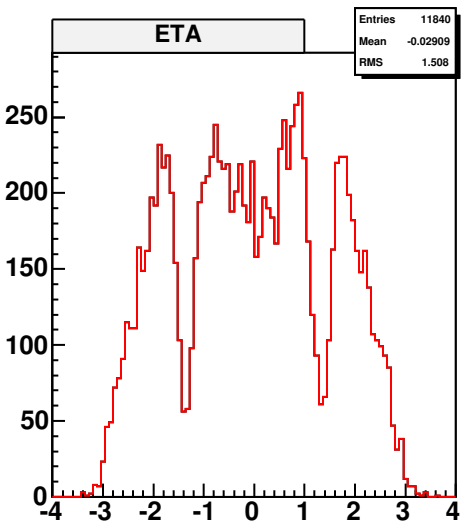


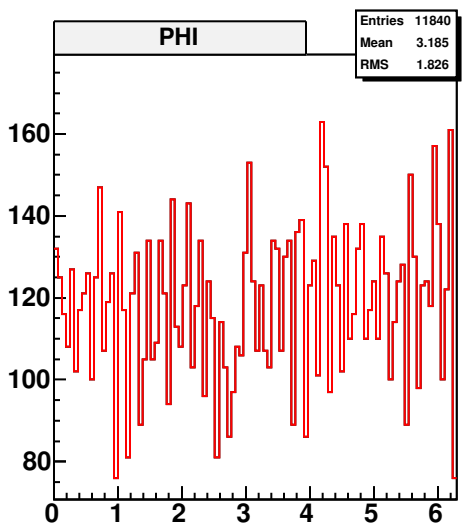


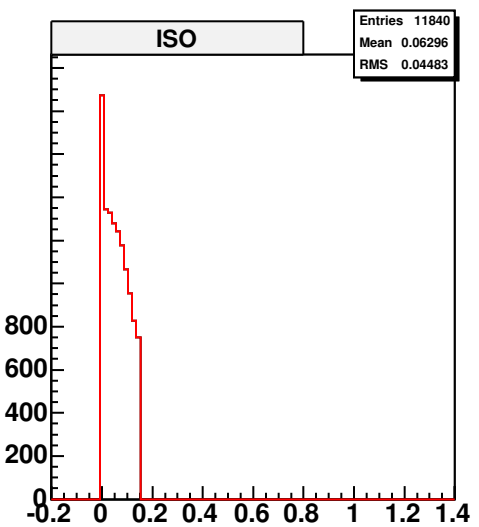
Electrons (SCONE All)

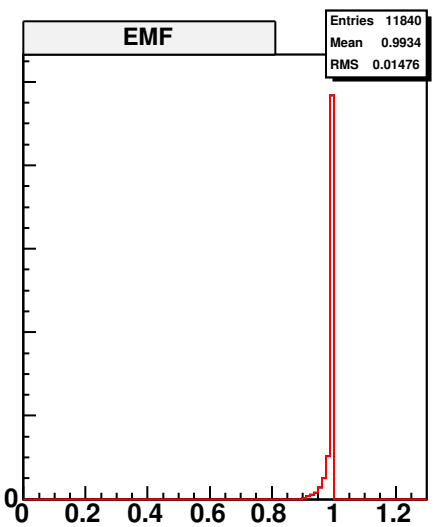


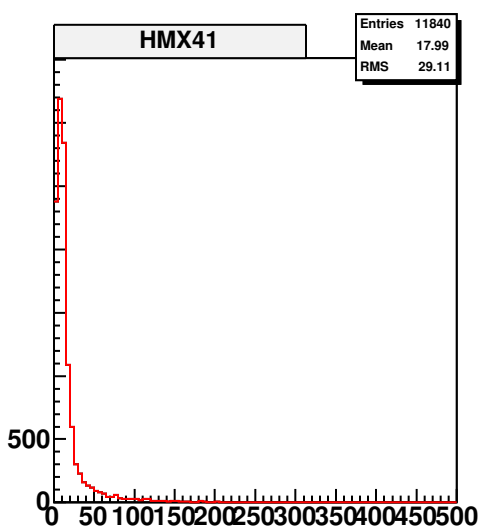


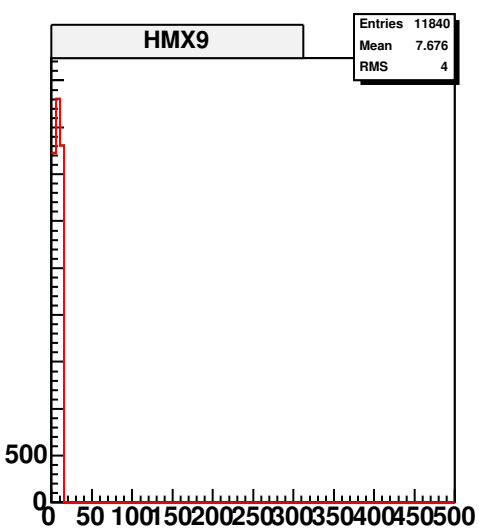


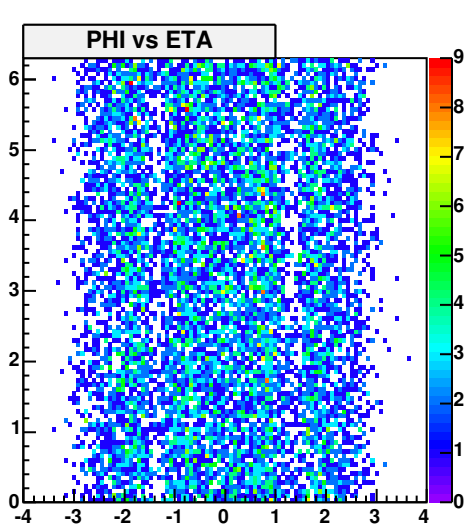




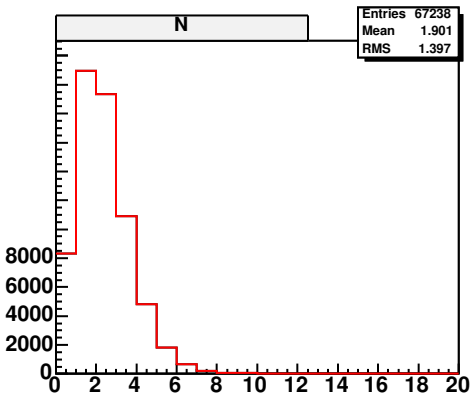


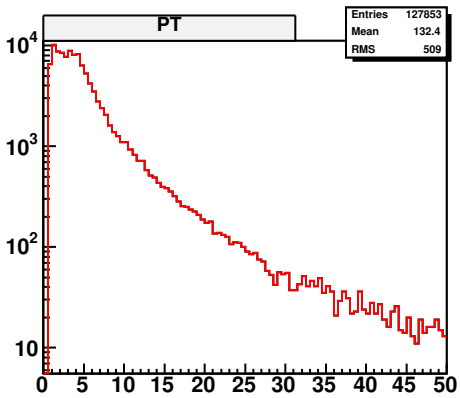


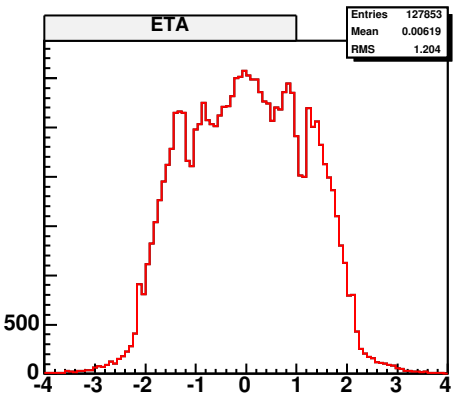


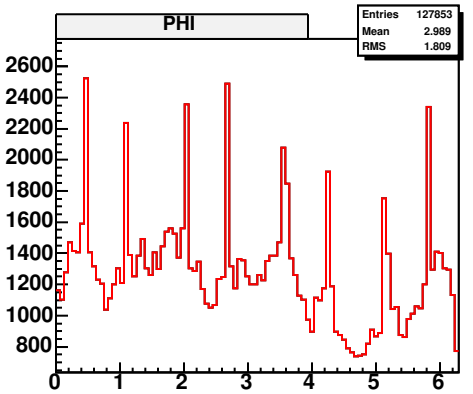


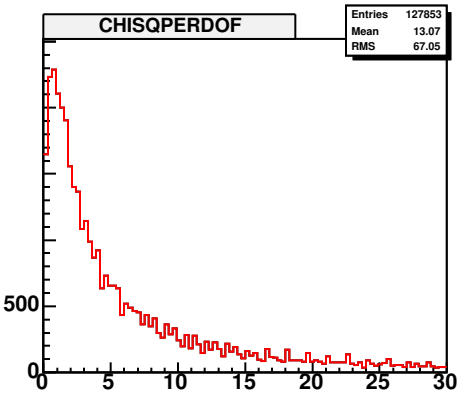
Electrons (SCONE Tight)

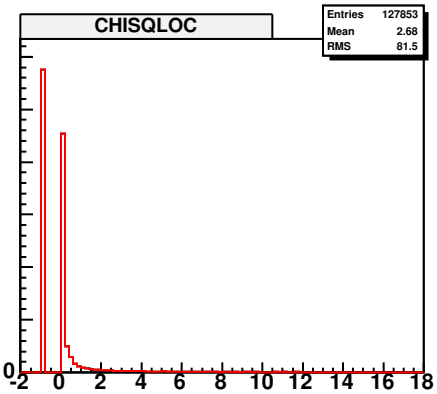

N
Entries 67238
Mean 1.901
RMS 1.397

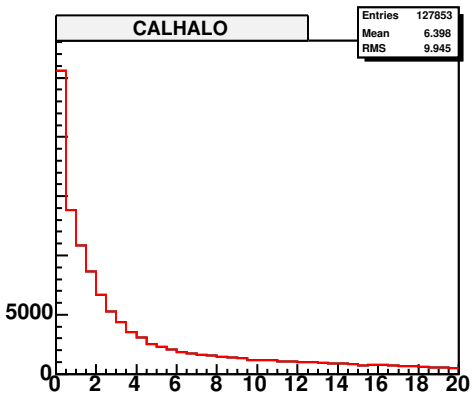

PT
Entries 127853
Mean 132.4
RMS 509

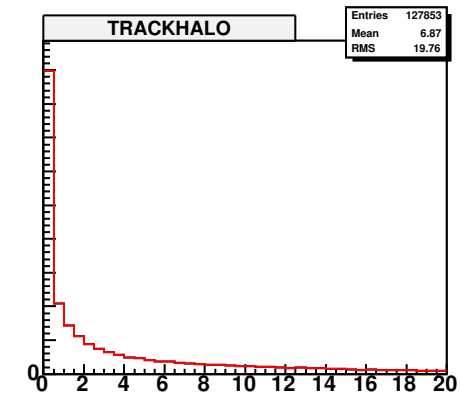

ETA
Entries 127853
Mean 0.00619
RMS 1.204

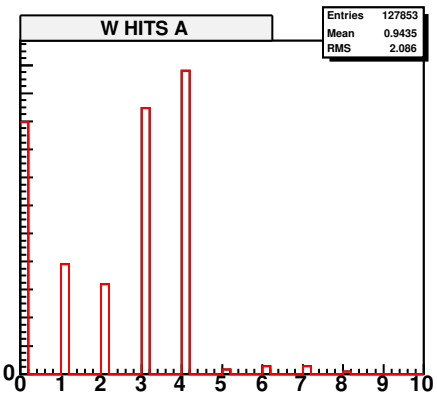

PHI
Entries 127853
Mean 2.989
RMS 1.809

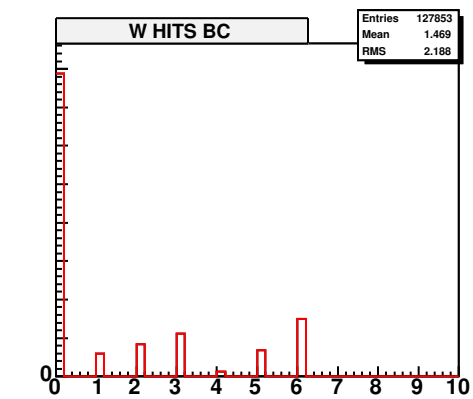

CHISQPERDOF
Entries 127853
Mean 13.07
RMS 67.05

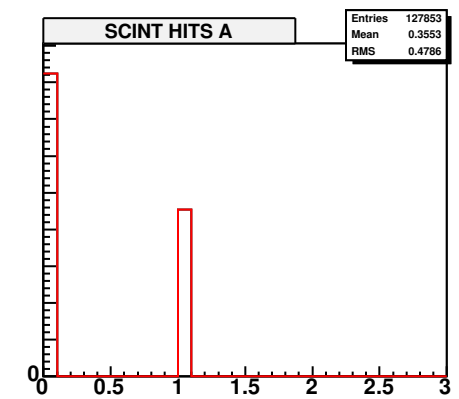

CHISQLOC
Entries 127853
Mean 2.68
RMS 81.5

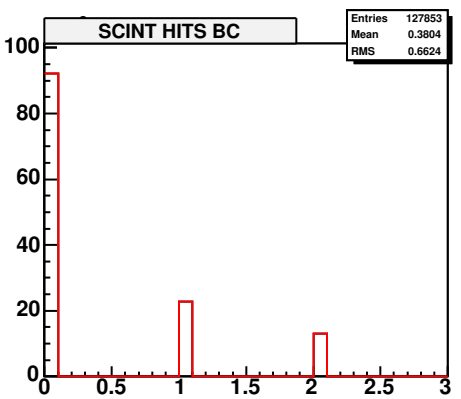

CALHALO
Entries 127853
Mean 6.398
RMS 9.945


TRACKHALO
Entries 127853
Mean 6.87
RMS 19.76

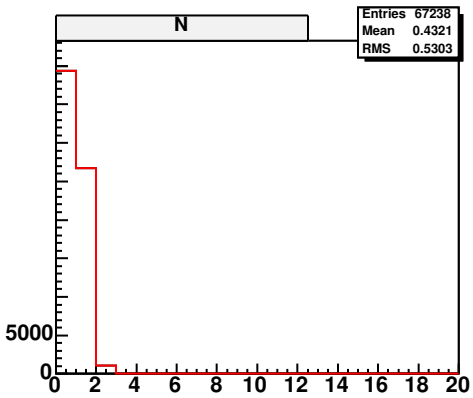

W HITS A
Entries 127853
Mean 0.9435
RMS 2.086

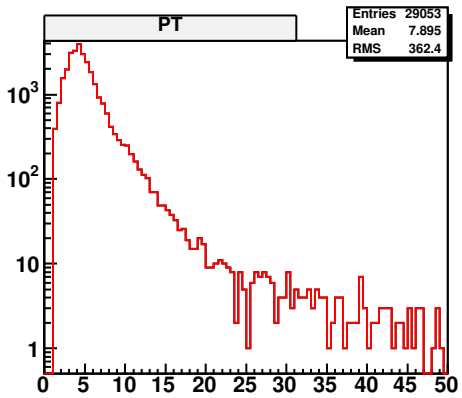

W HITS BC
Entries 127853
Mean 1.469
RMS 2.188

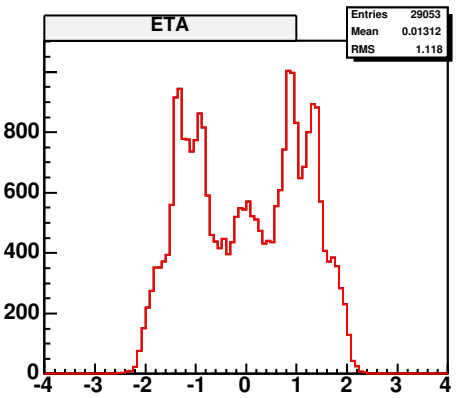

SCINT HITS A
Entries 127853
Mean 0.3553
RMS 0.4786

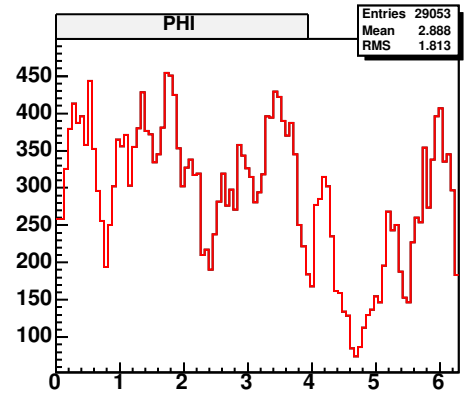

SCINT HITS BC
Entries 127853
Mean 0.3804
RMS 0.6624

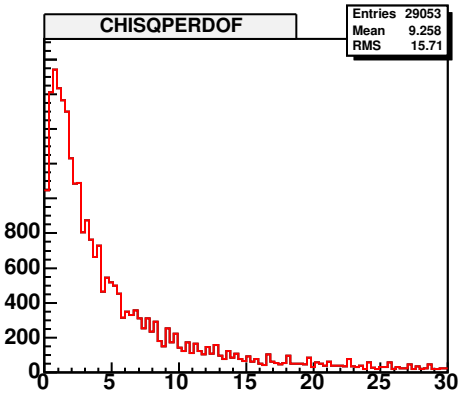
Muons (All)

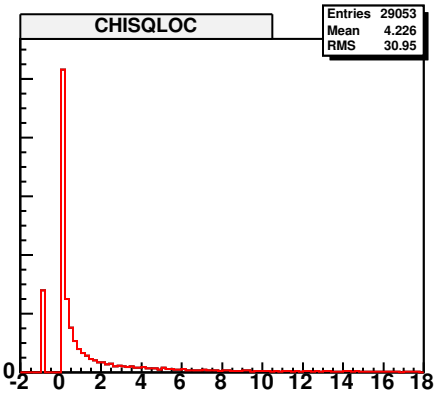


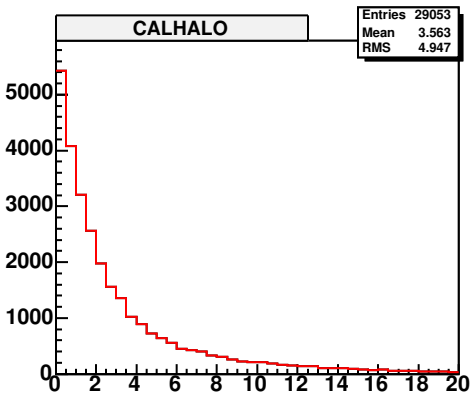


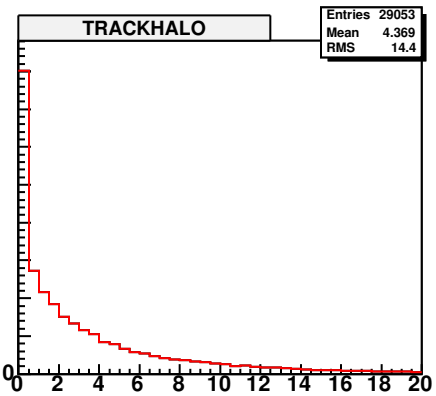


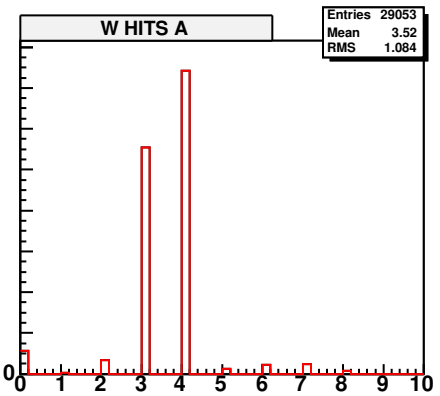


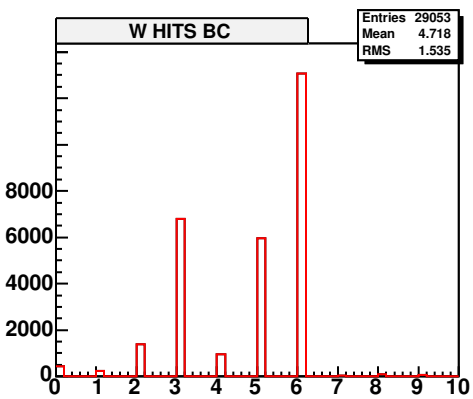


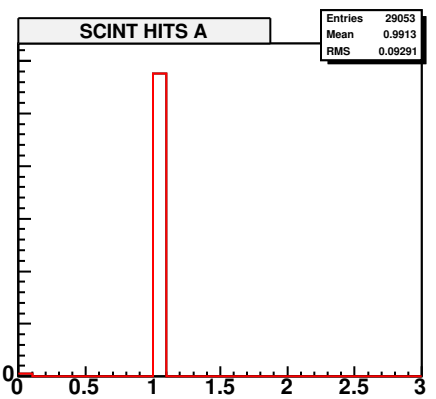


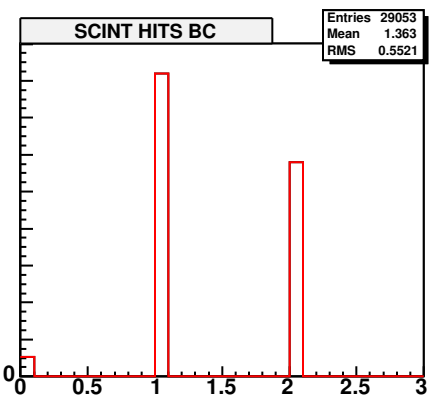




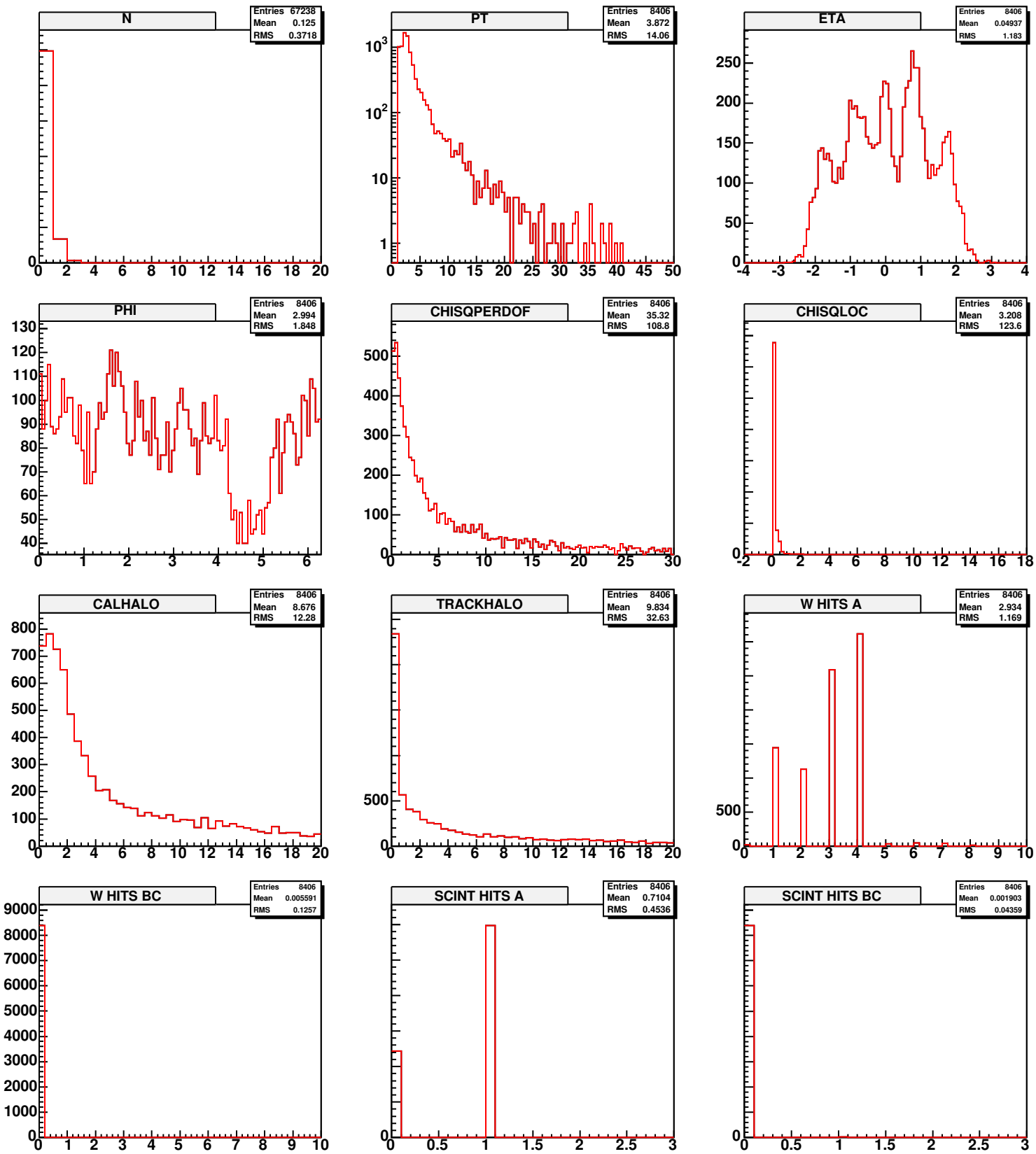




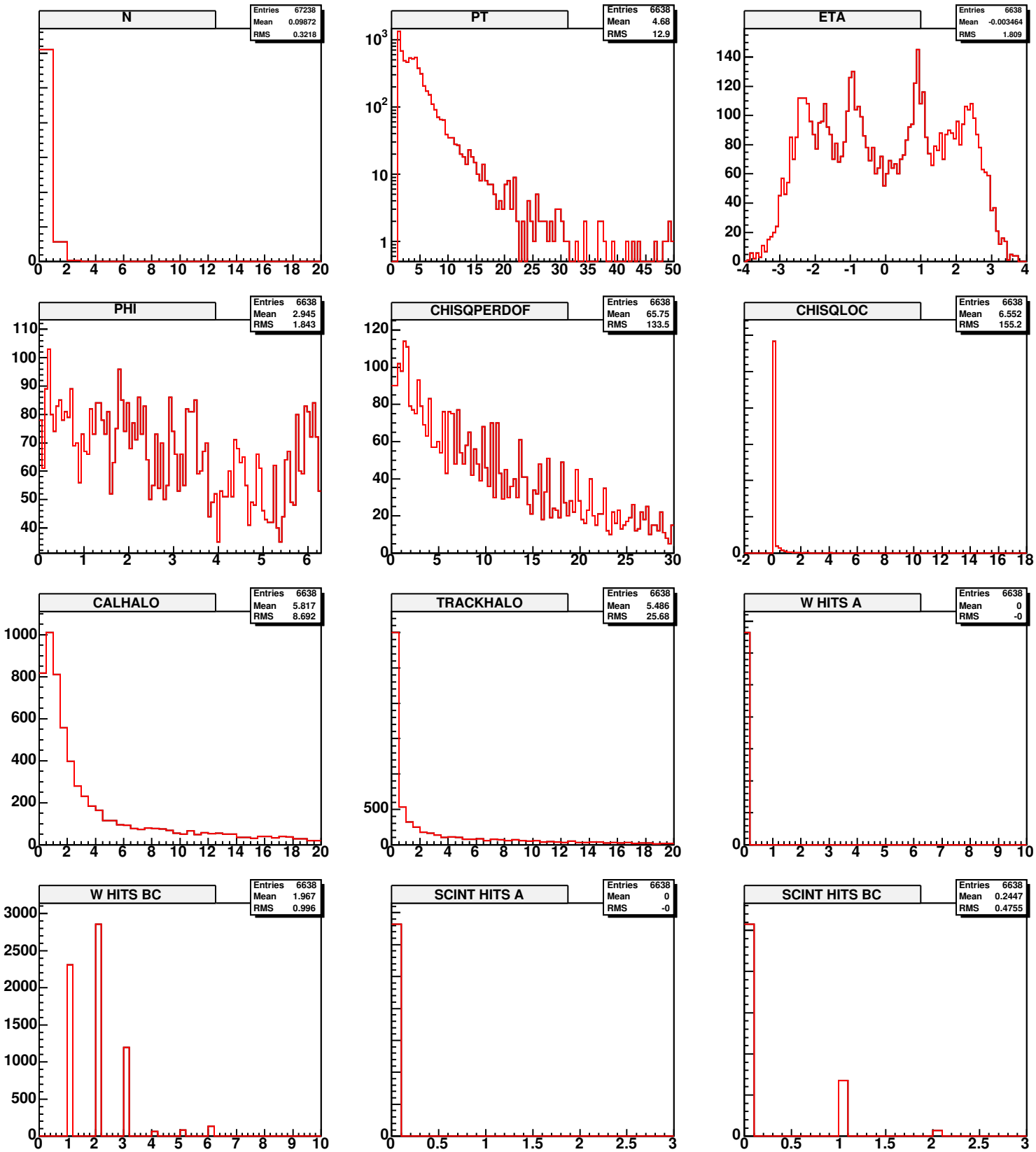




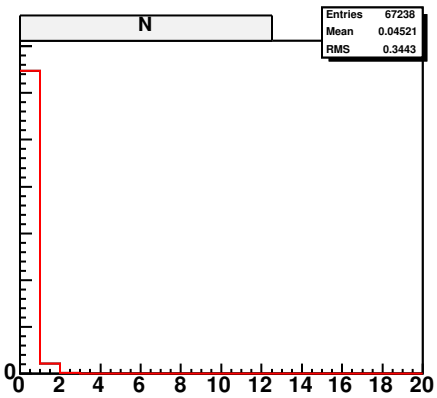
Muons (Matched)

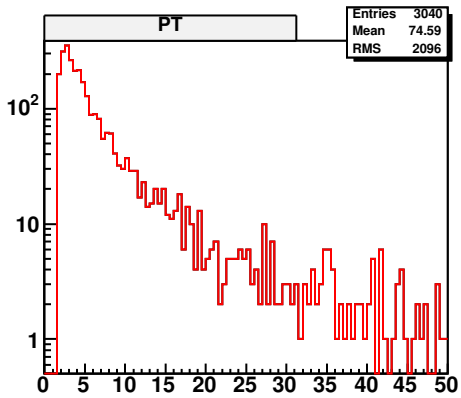

N
Entries 67238
Mean 0.125
RMS 0.3718
PT
Entries 8406
Mean 3.872
RMS 14.06
ETA
Entries 8406
Mean 0.04937
RMS 1.183
PHI
Entries 8406
Mean 2.994
RMS 1.848
CHISQPERDOF
Entries 8406
Mean 35.32
RMS 108.8
CHISQLOC
Entries 8406
Mean 3.208
RMS 123.6
CALHALO
Entries 8406
Mean 8.676
RMS 12.28
TRACKHALO
Entries 8406
Mean 9.834
RMS 32.63
W HITS A
Entries 8406
Mean 2.934
RMS 1.169
W HITS BC
Entries 8406
Mean 0.005591
RMS 0.1257
SCINT HITS A
Entries 8406
Mean 0.7104
RMS 0.4536
SCINT HITS BC
Entries 8406
Mean 0.001903
RMS 0.04359

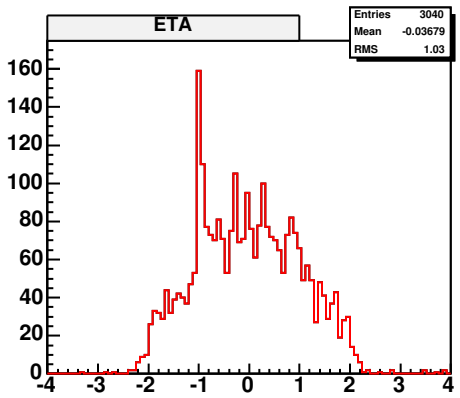
Muons (Astub)

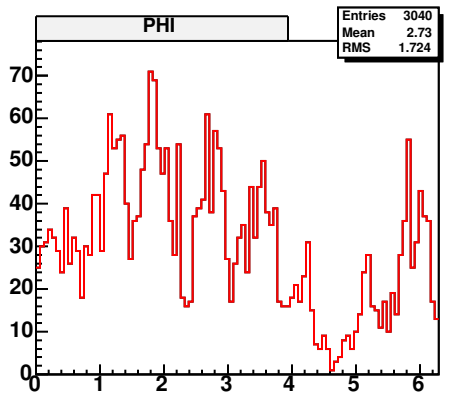


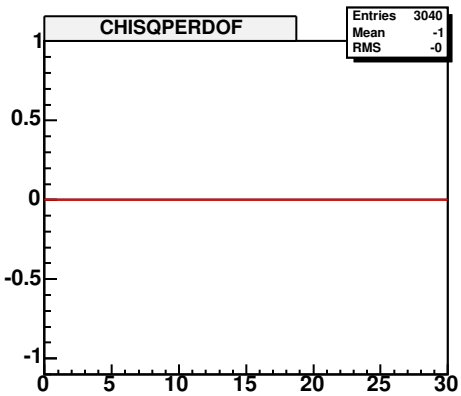
Muons (BCstub)

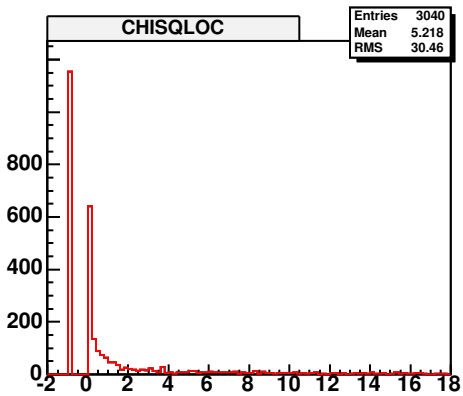


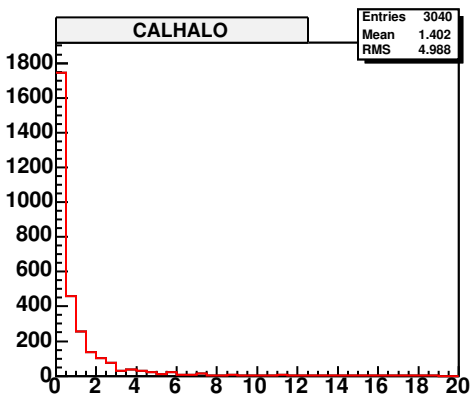


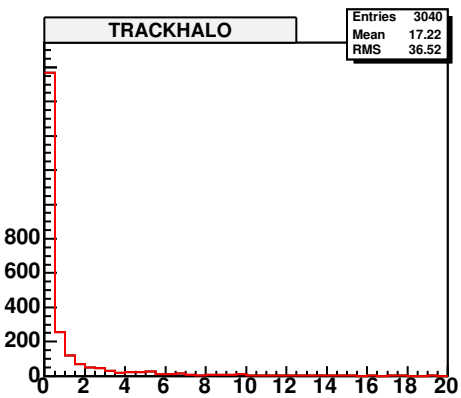


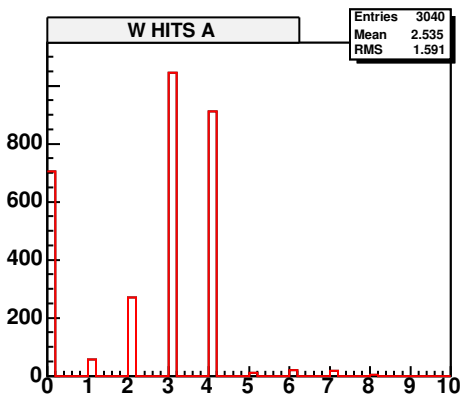


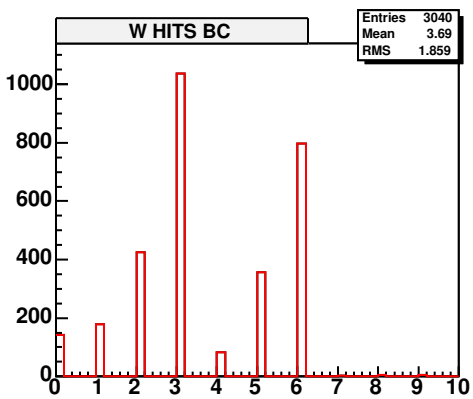


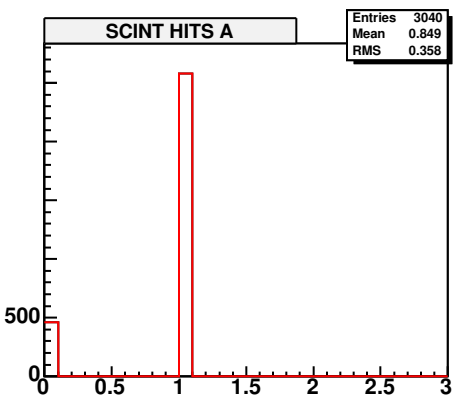


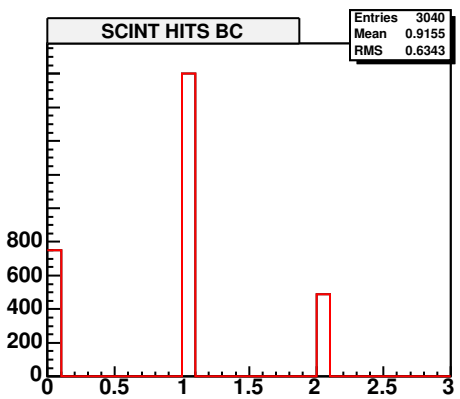




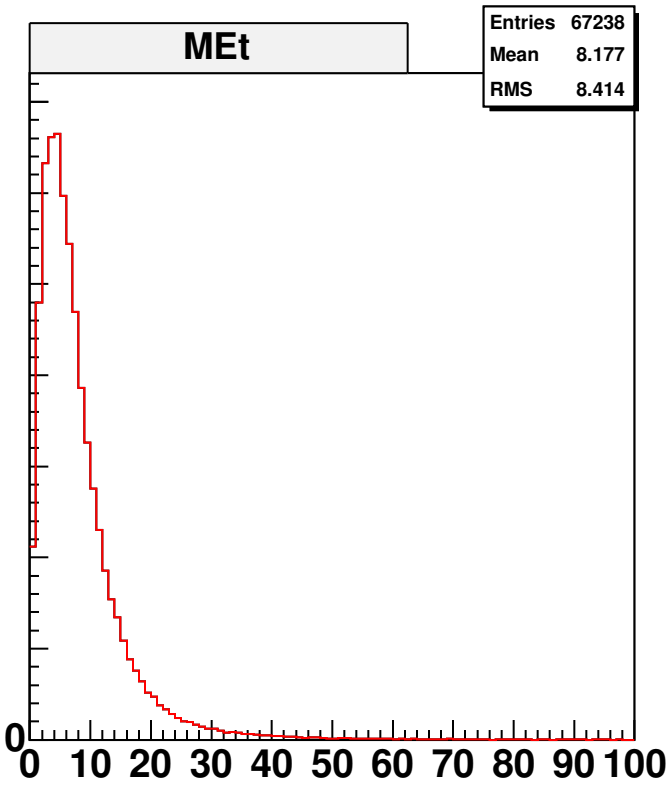


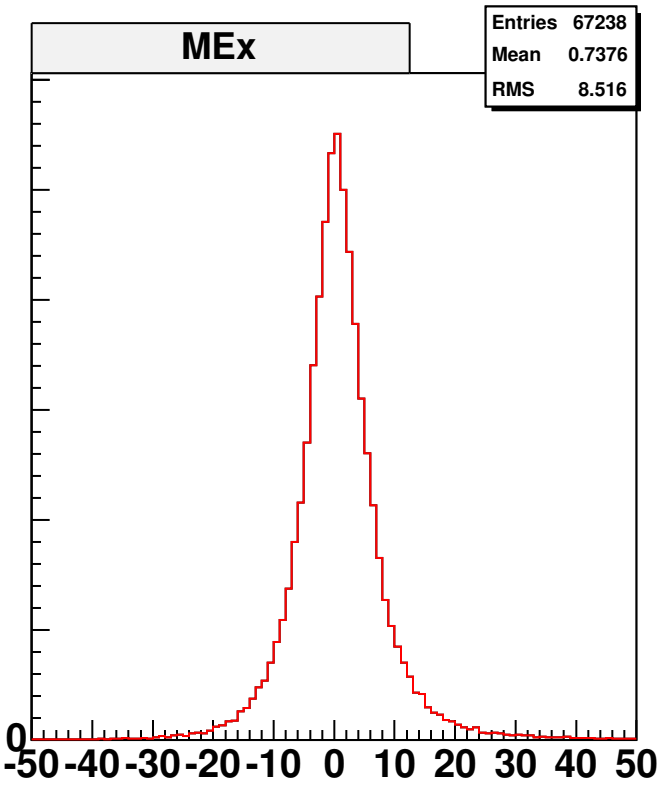


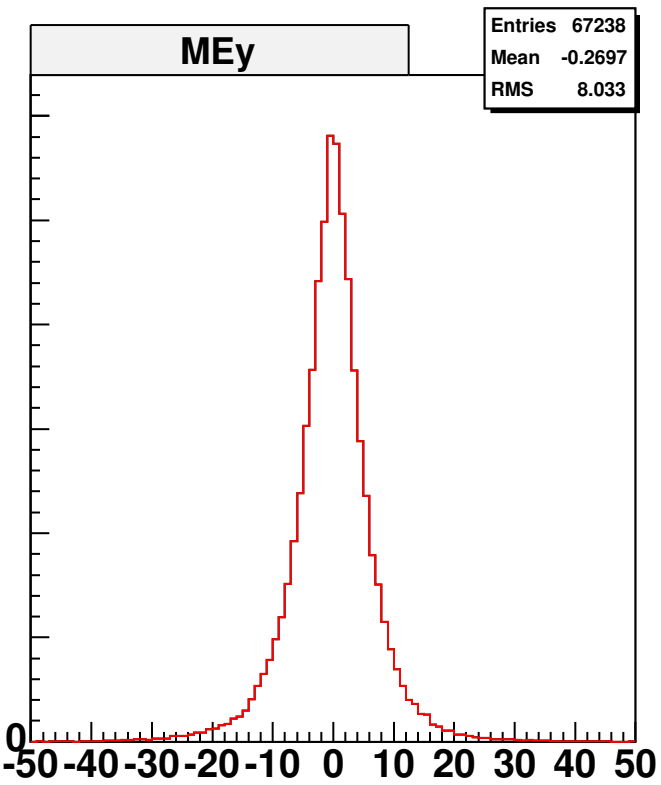




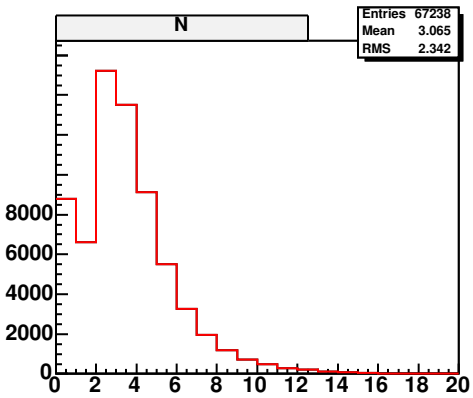
Muons (Unmatched)

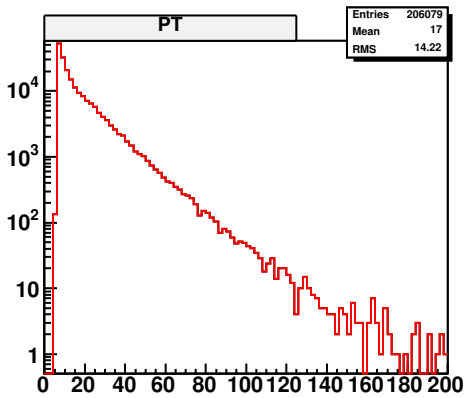

MEt
Entries 67238
Mean 8.177
RMS 8.414
0
0 10 20 30 40 50 60 70 80 90 100

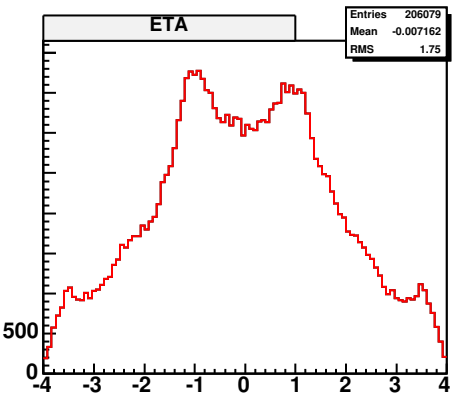

MEx
Entries 67238
Mean 0.7376
RMS 8.516
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

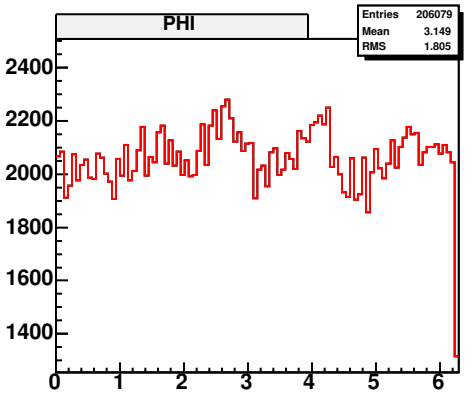

MEy
Entries 67238
Mean -0.2697
RMS 8.033
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

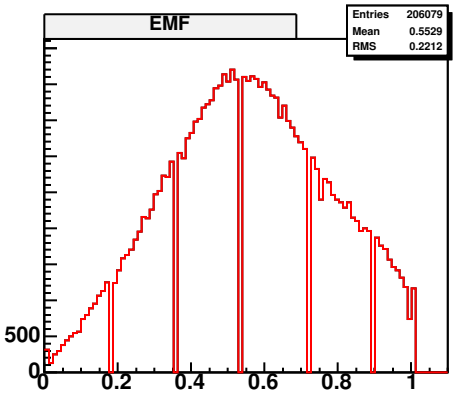
Met (No cuts)

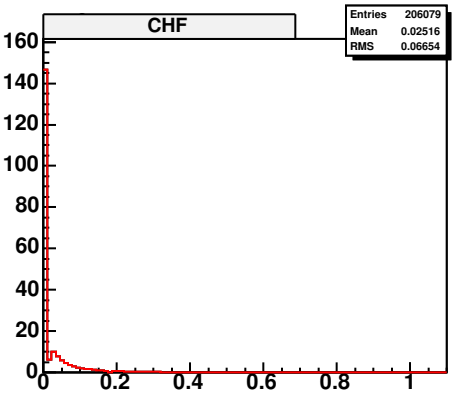


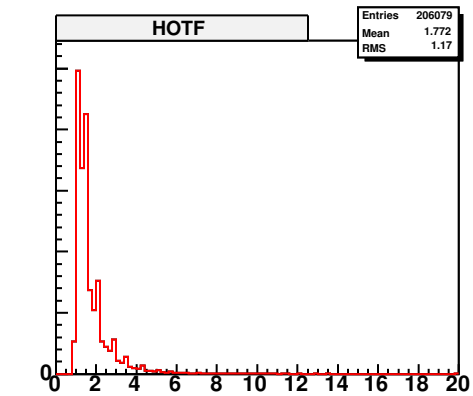


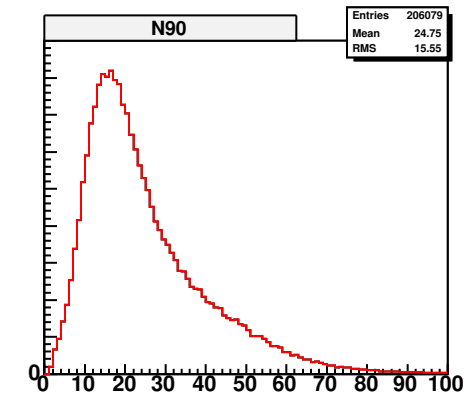


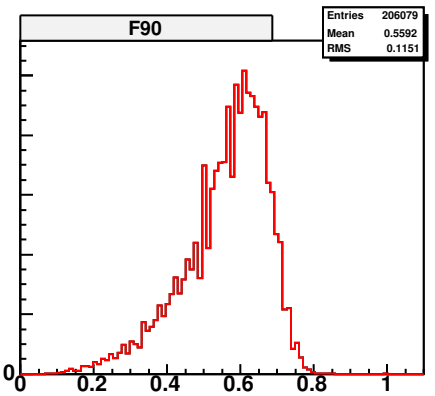


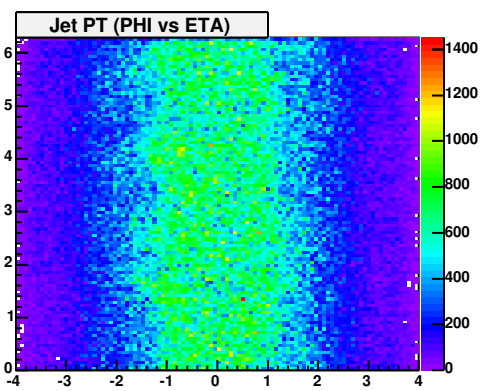




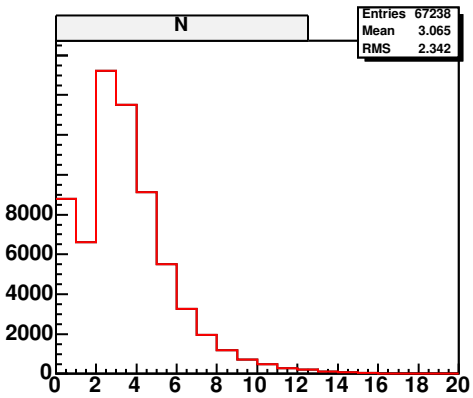


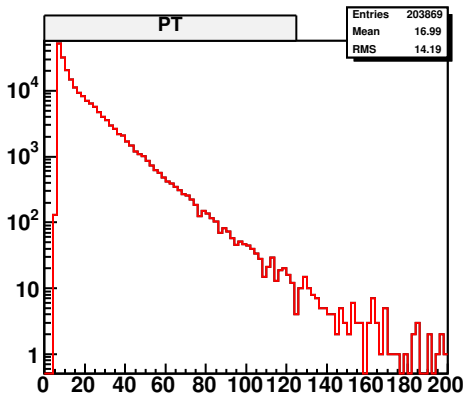


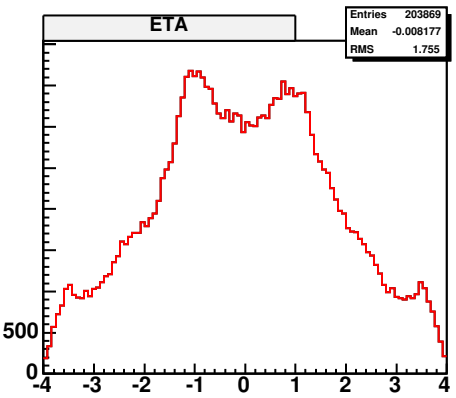


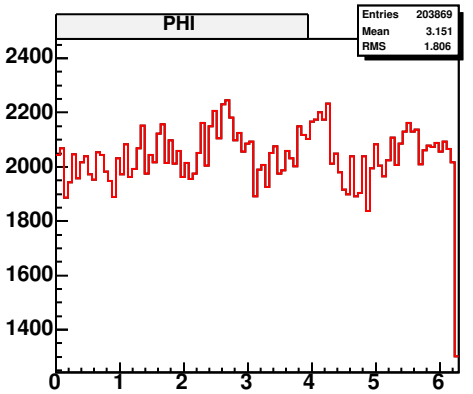


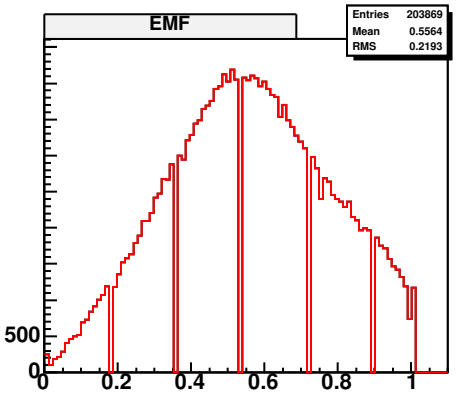
Jets (Cone R 0.7 (no cuts))

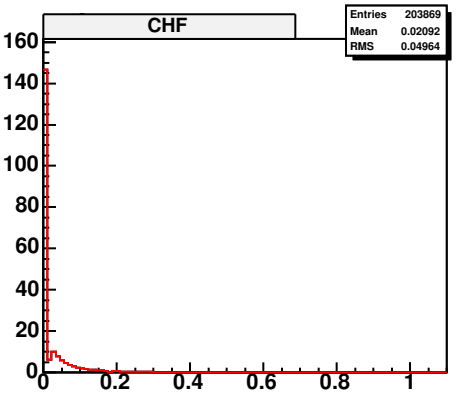


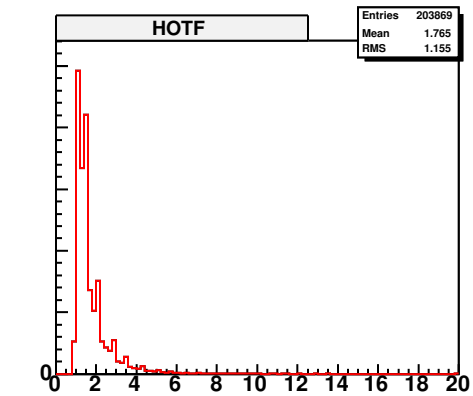


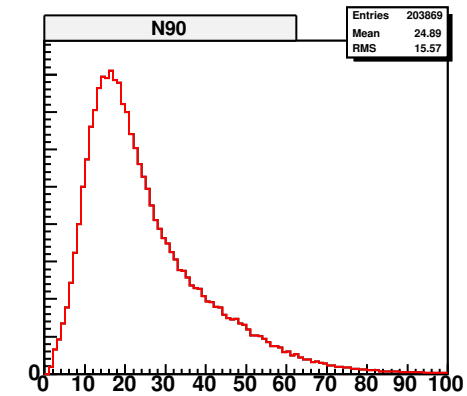


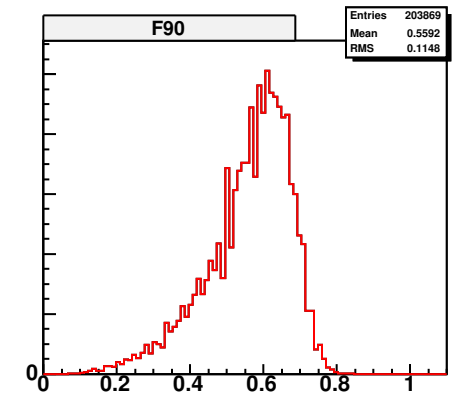


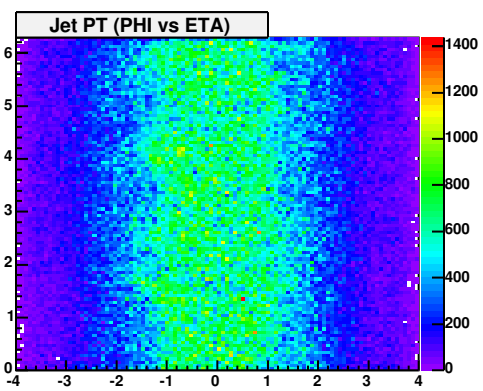




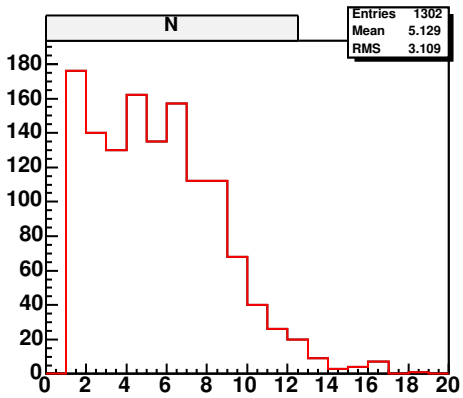


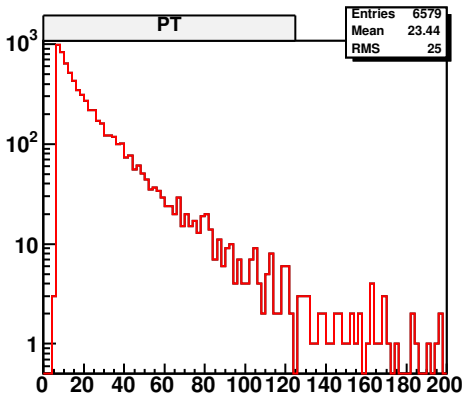


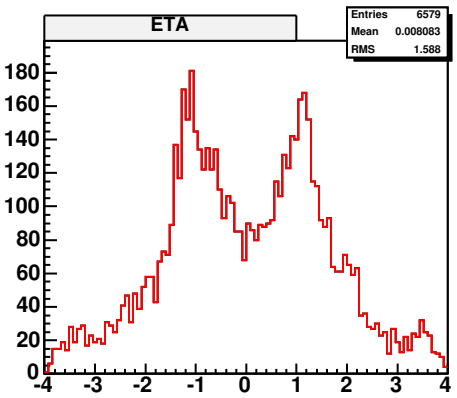


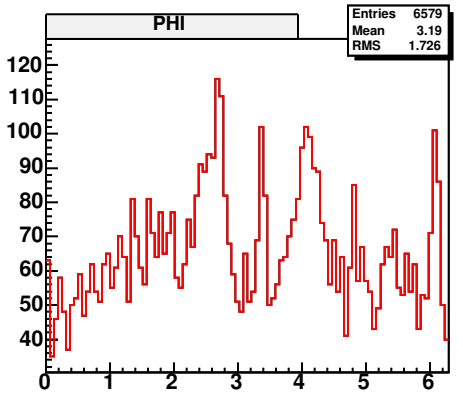


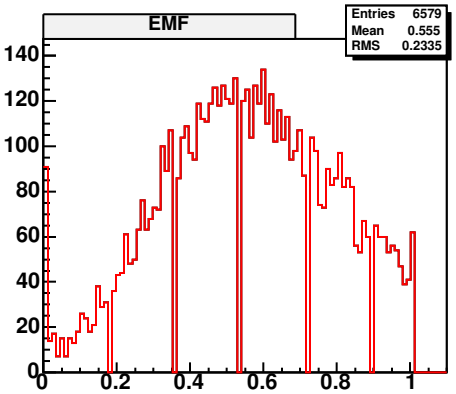
Jets (Cone R 0.7 (standard cuts))

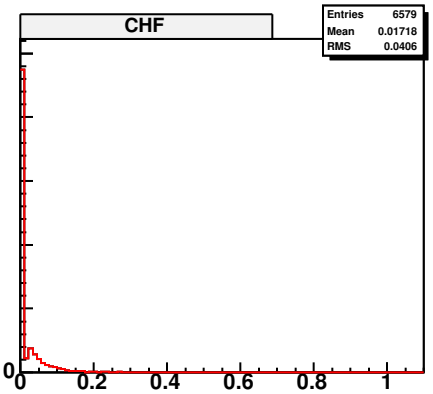


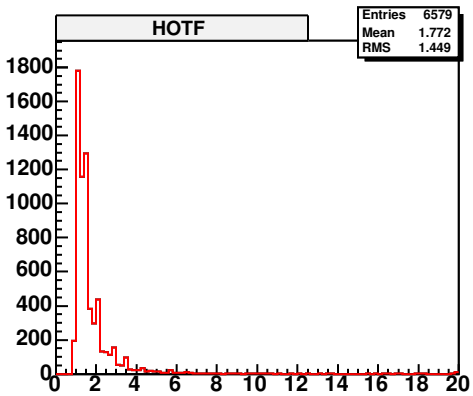


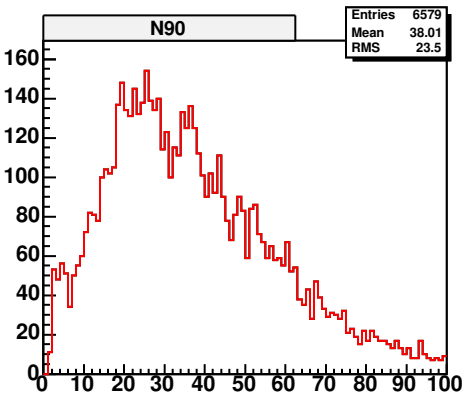


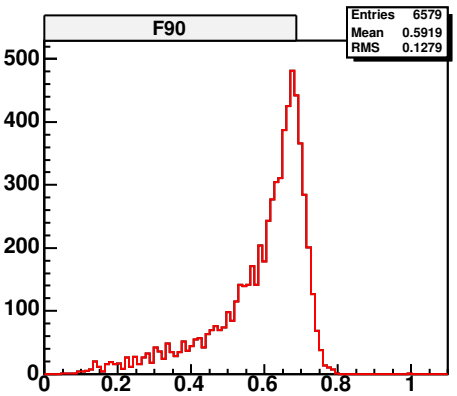


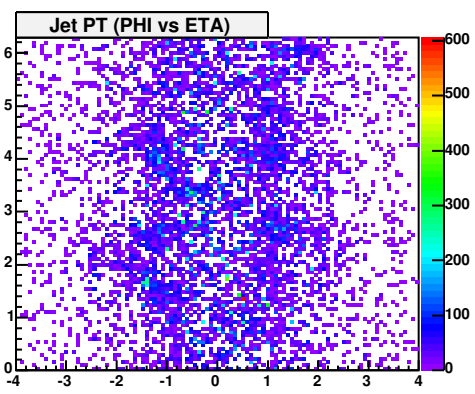




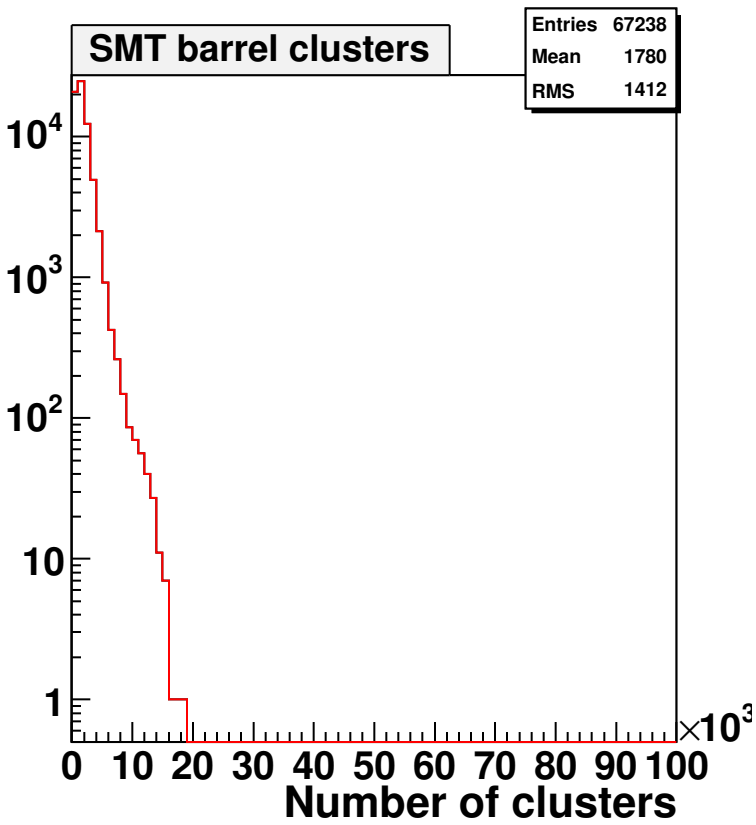


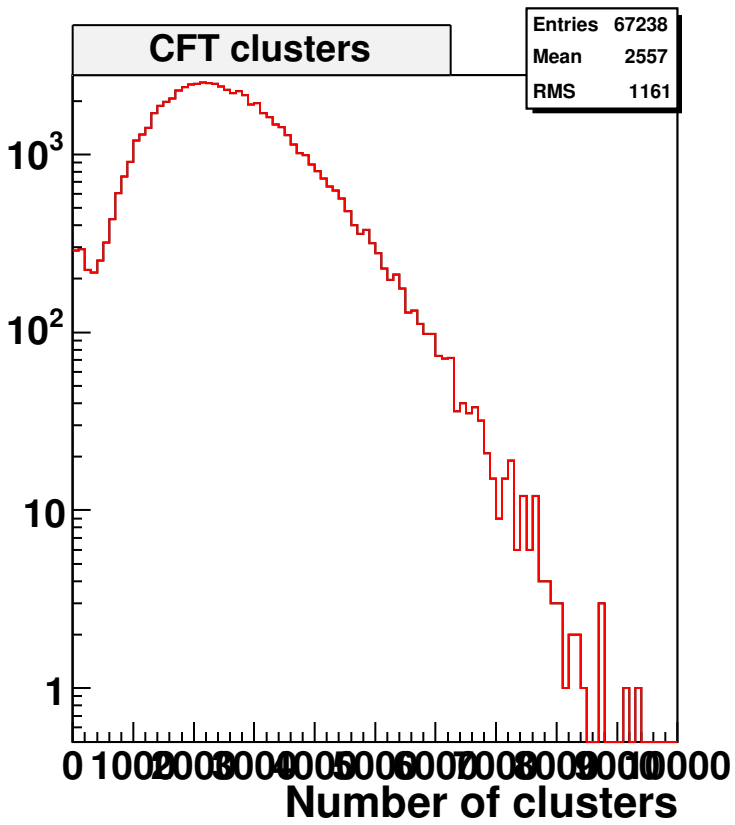


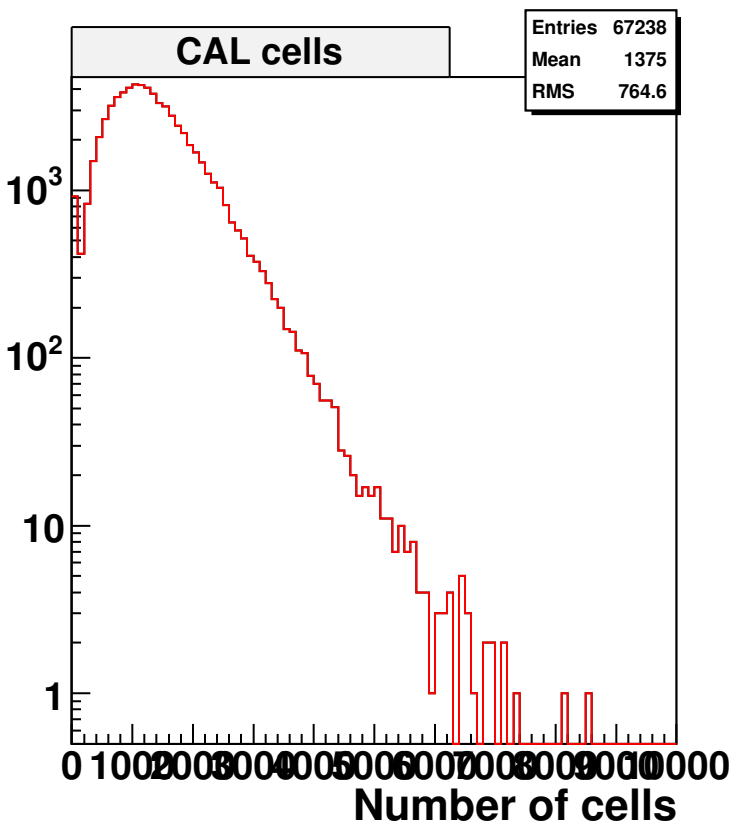


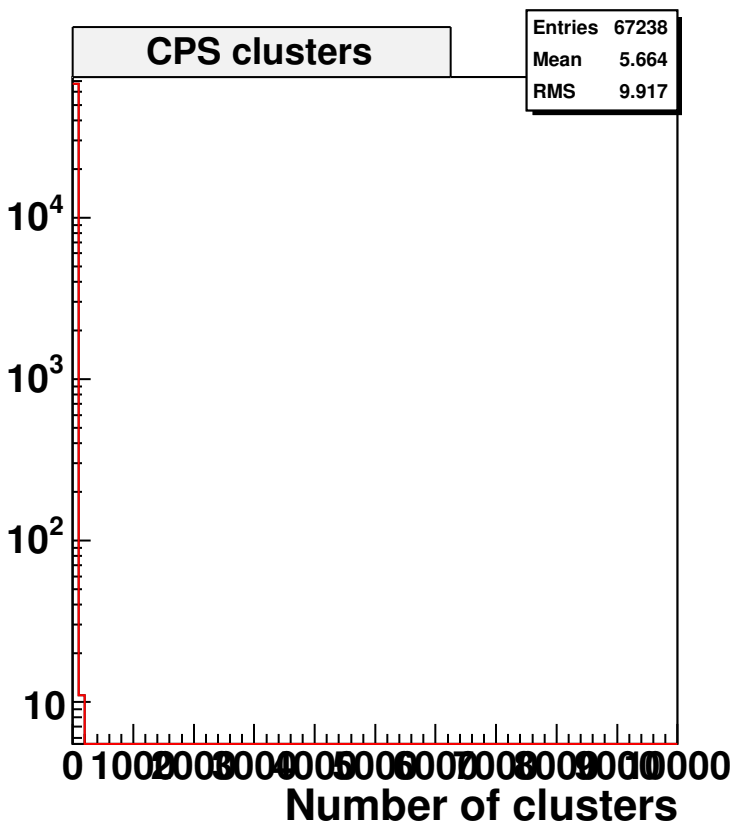


Jets (Cone R 0.7 (standard cuts, MET>30))

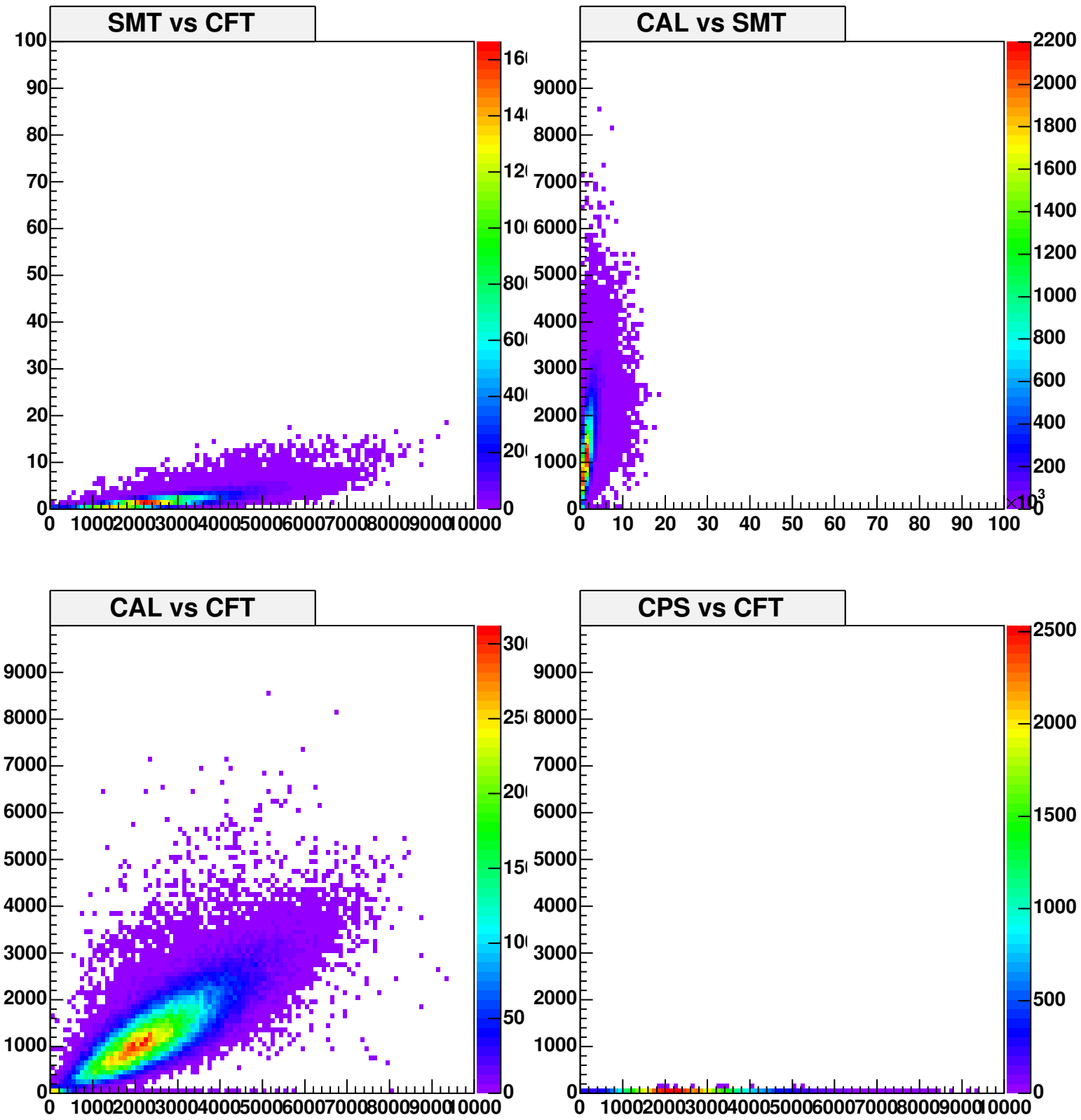


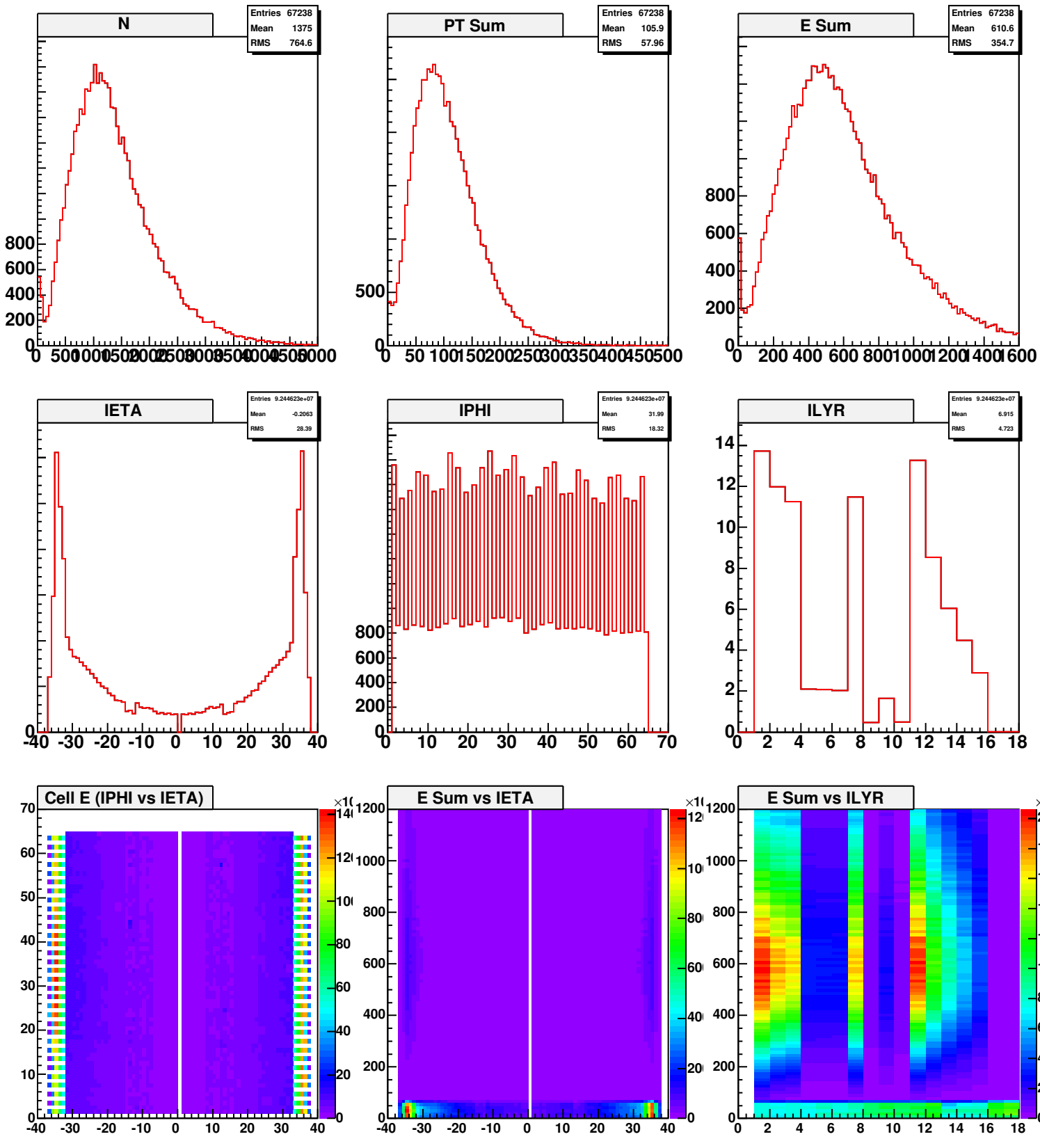




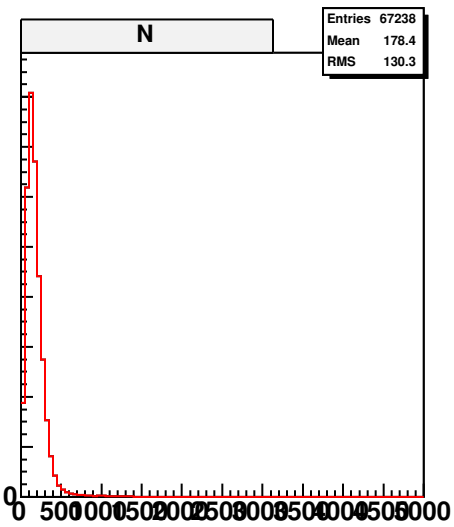


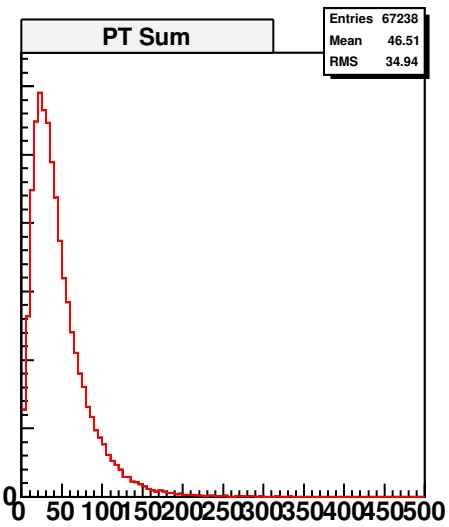
Detector Occupancy (Detector)

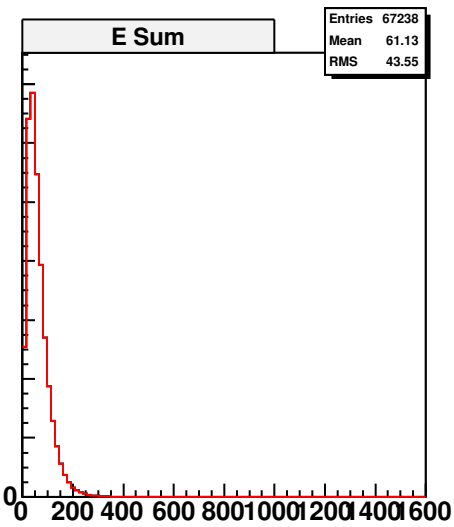

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

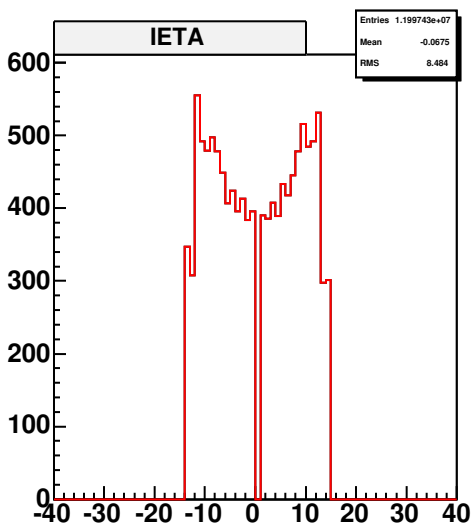


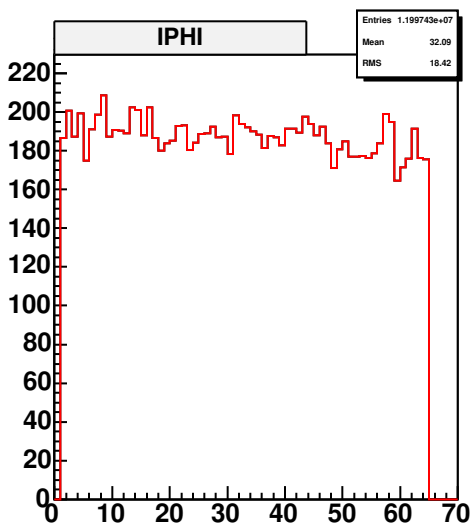
Calorimeter (All cells)

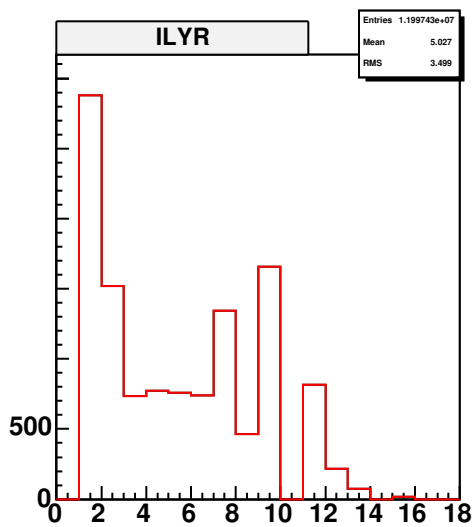


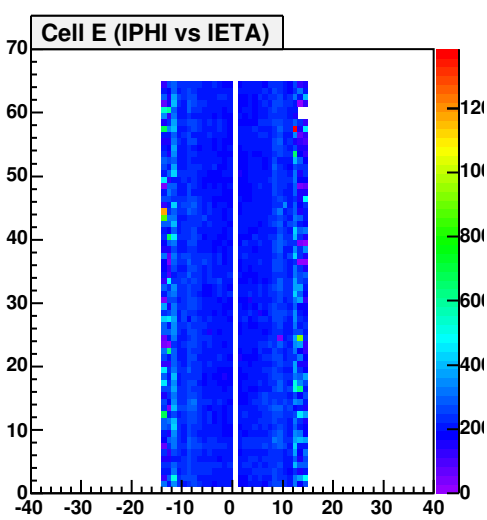


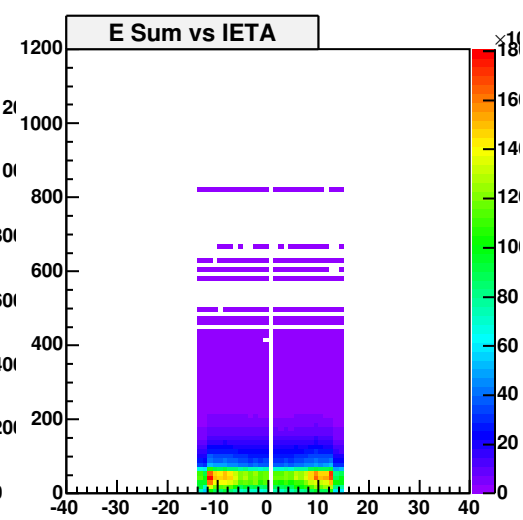


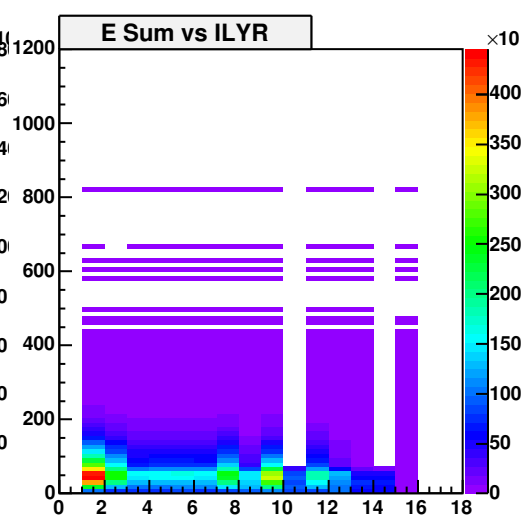




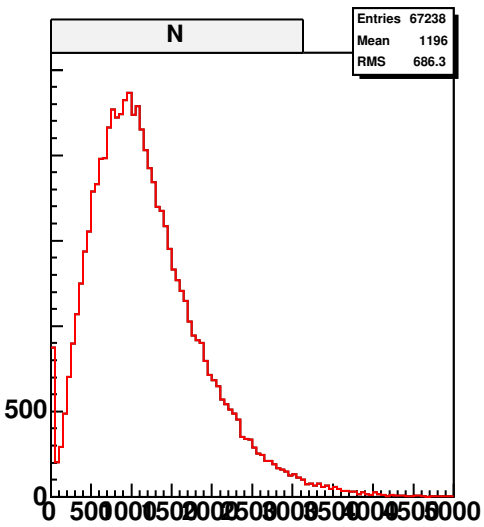


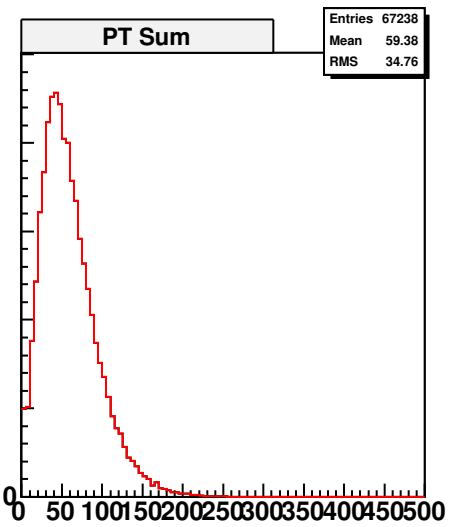


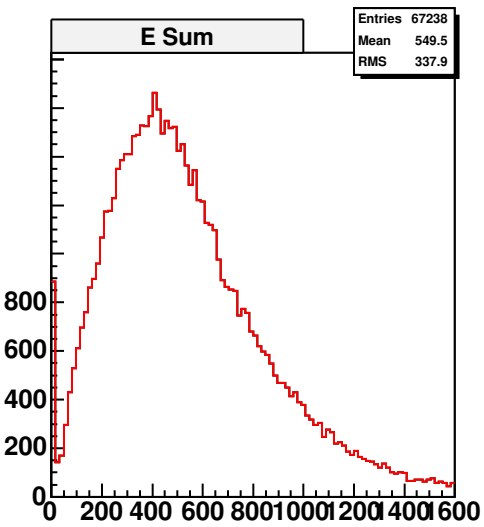


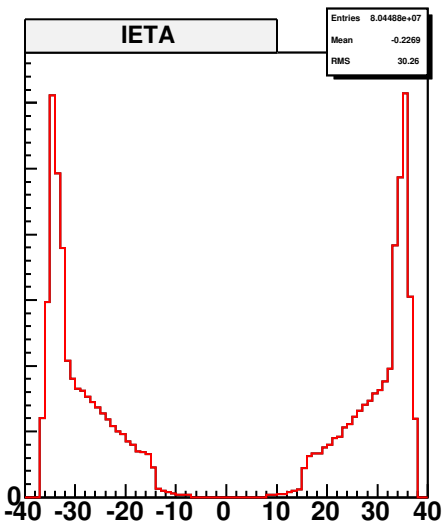


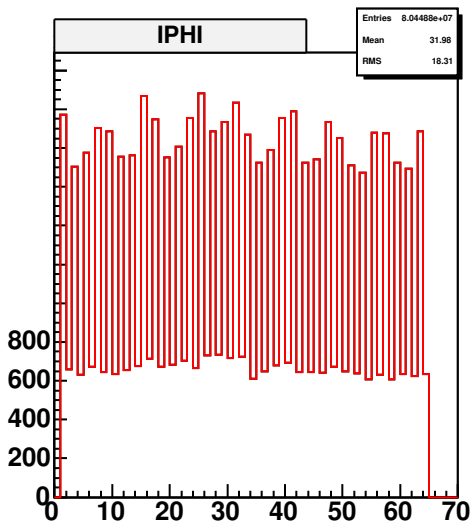
Calorimeter (All CC cells)

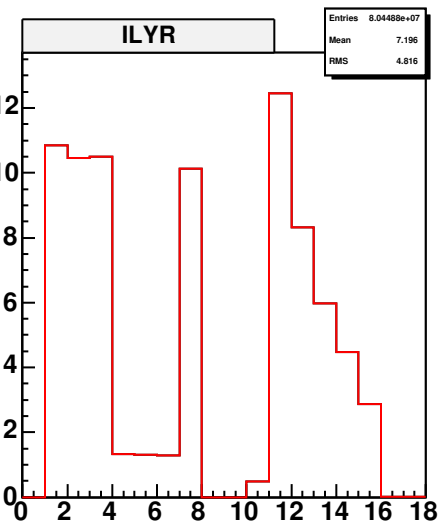


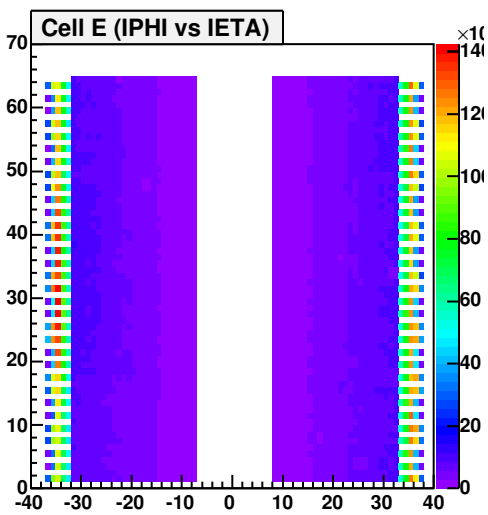


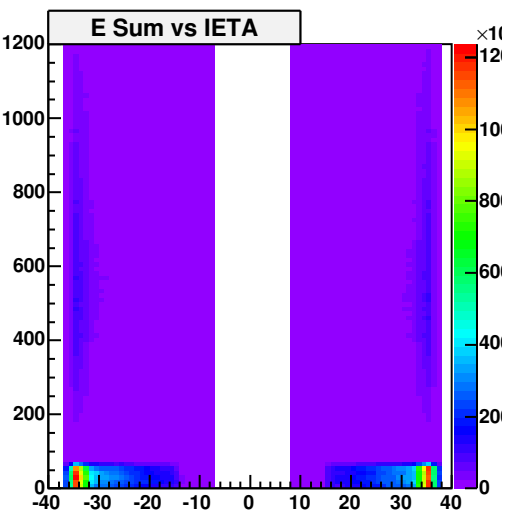


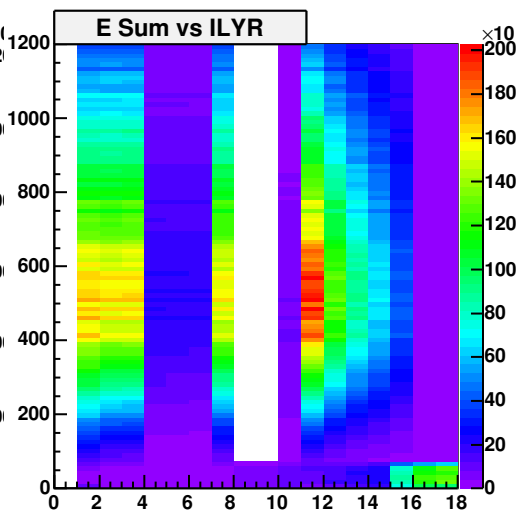




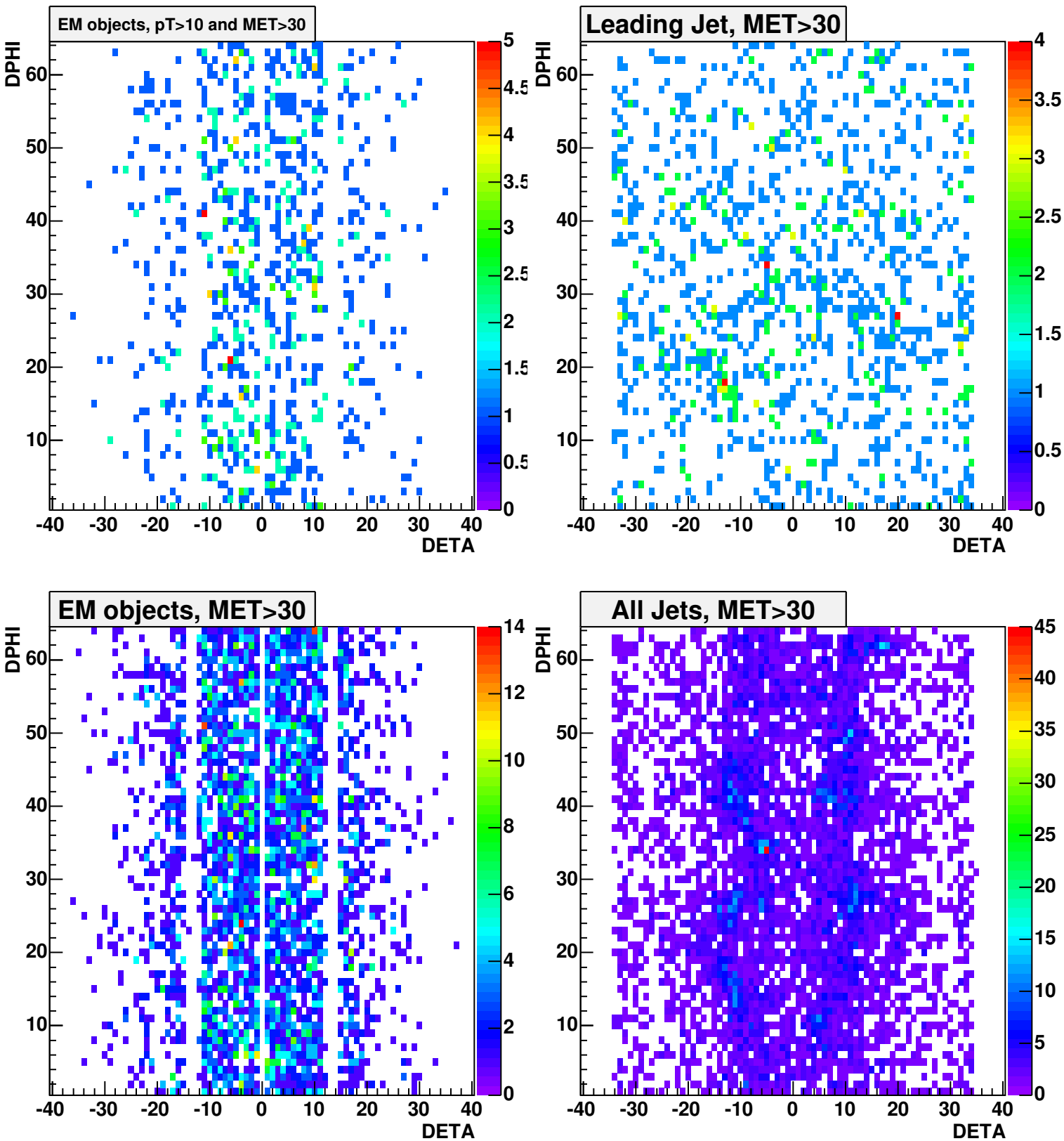




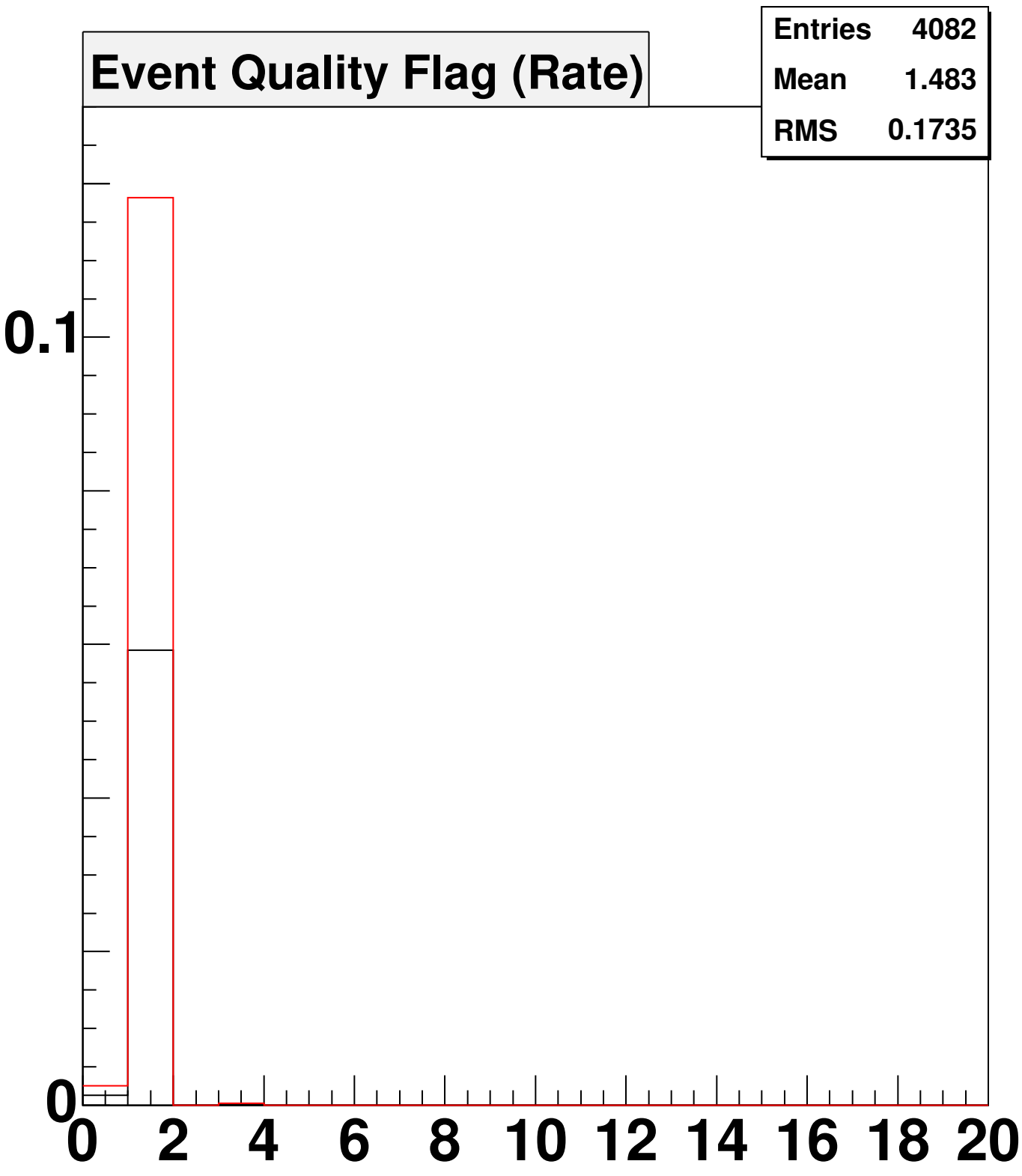


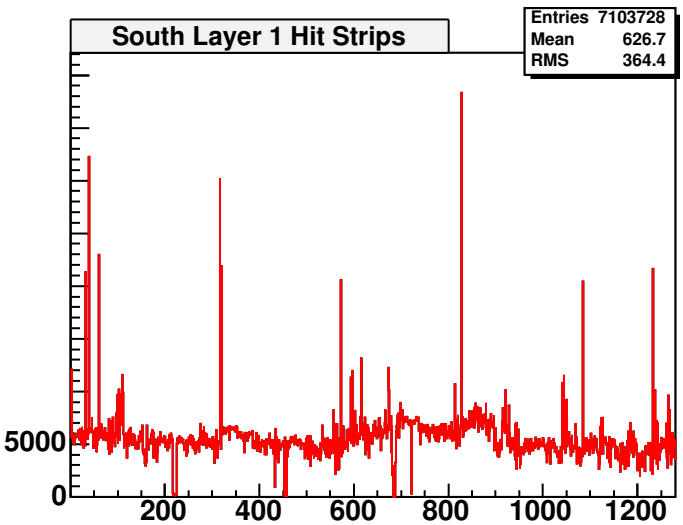


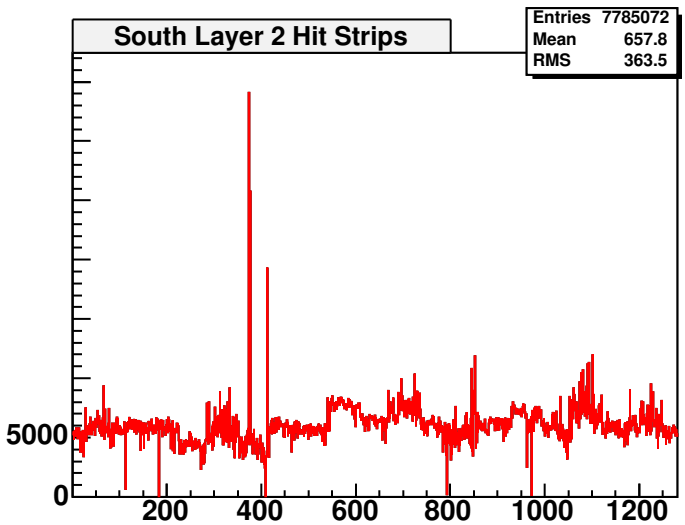
Calorimeter (All EC cells)

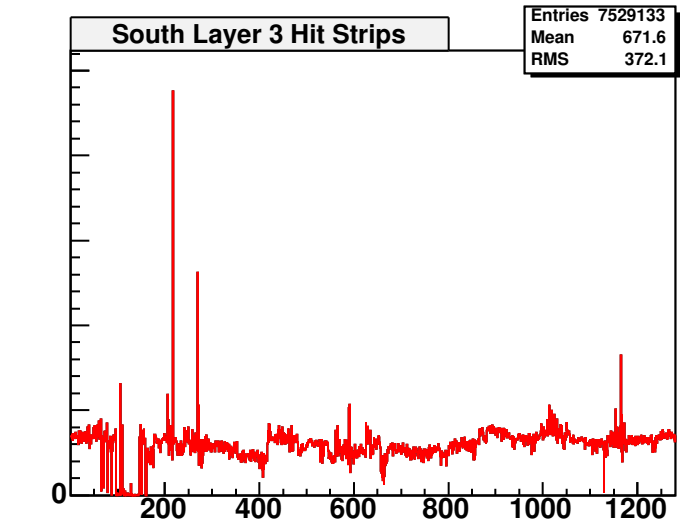


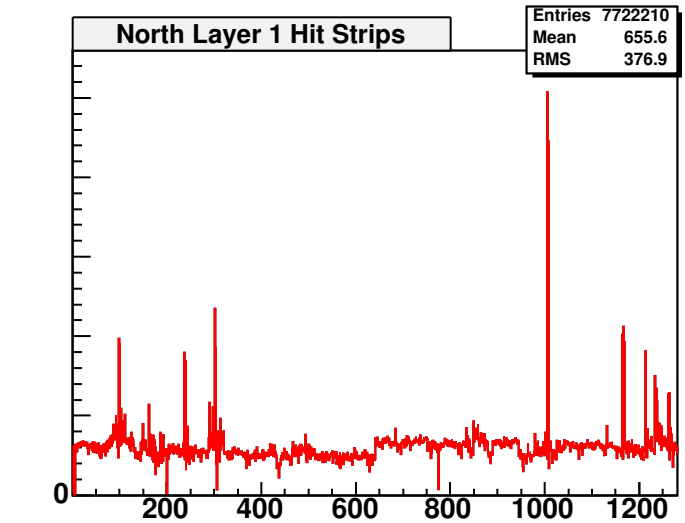
Cal Objects with MET>30 (All cells)

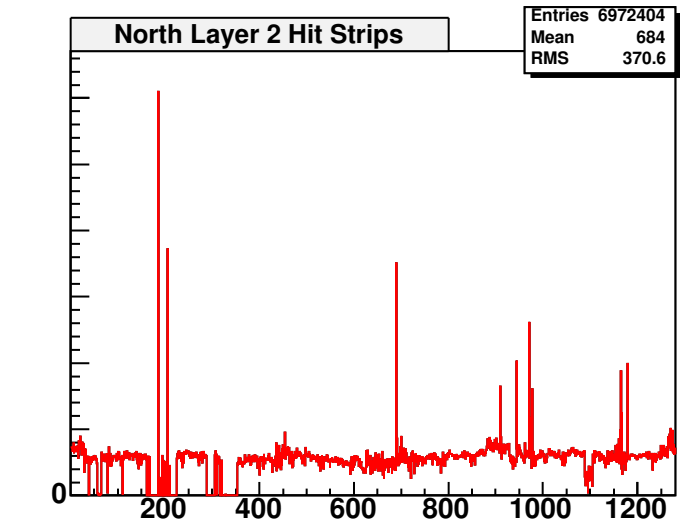

Event Quality Flag (Rate)
Entries 4082
Mean 1.483
RMS 0.1735
0.1
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

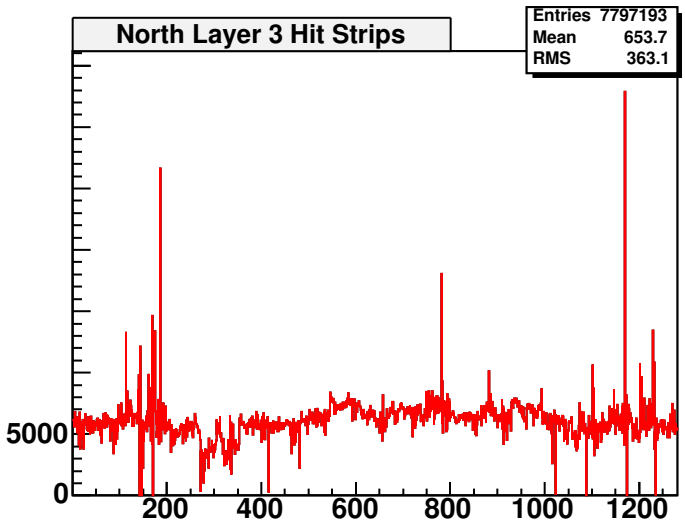




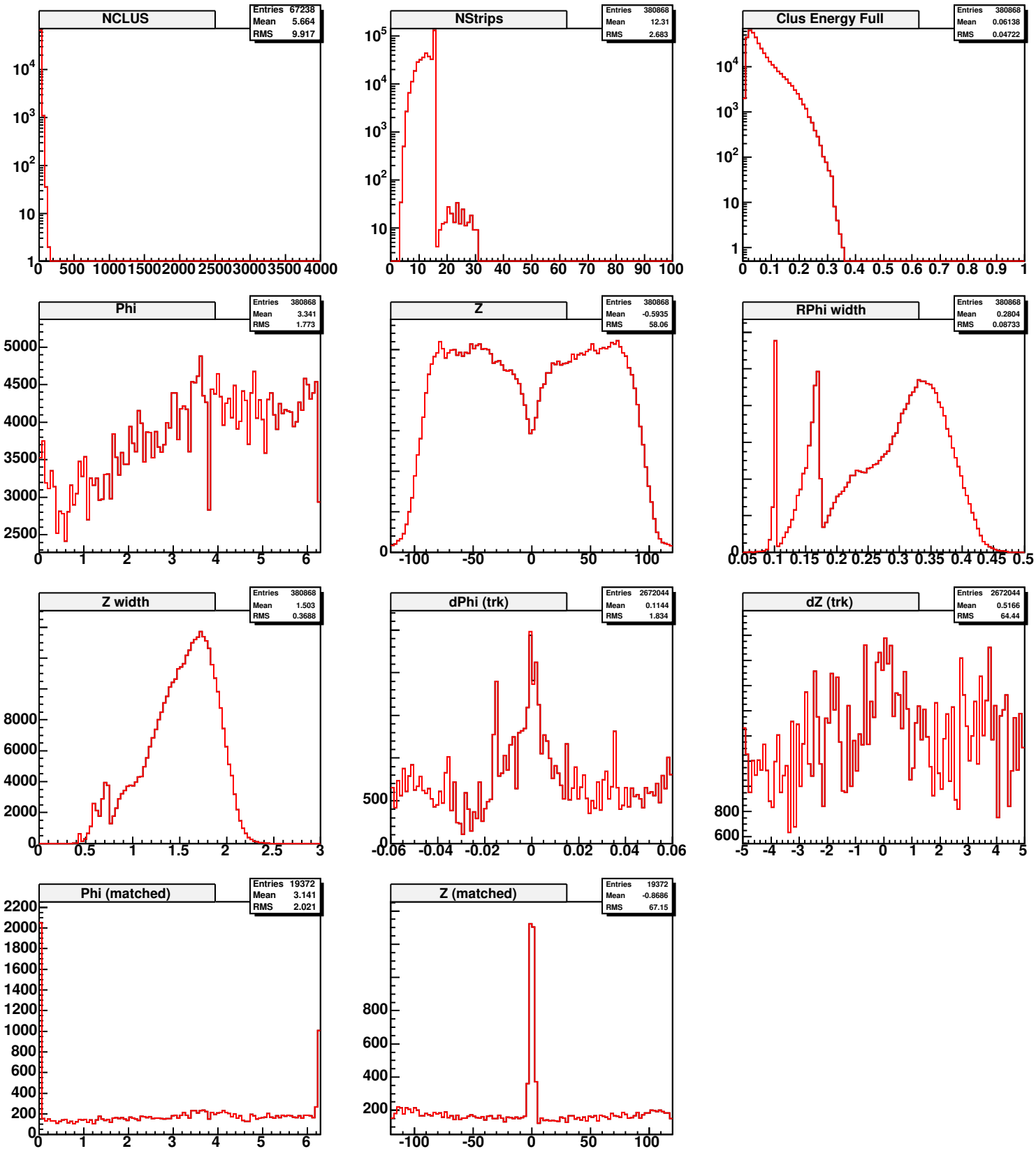




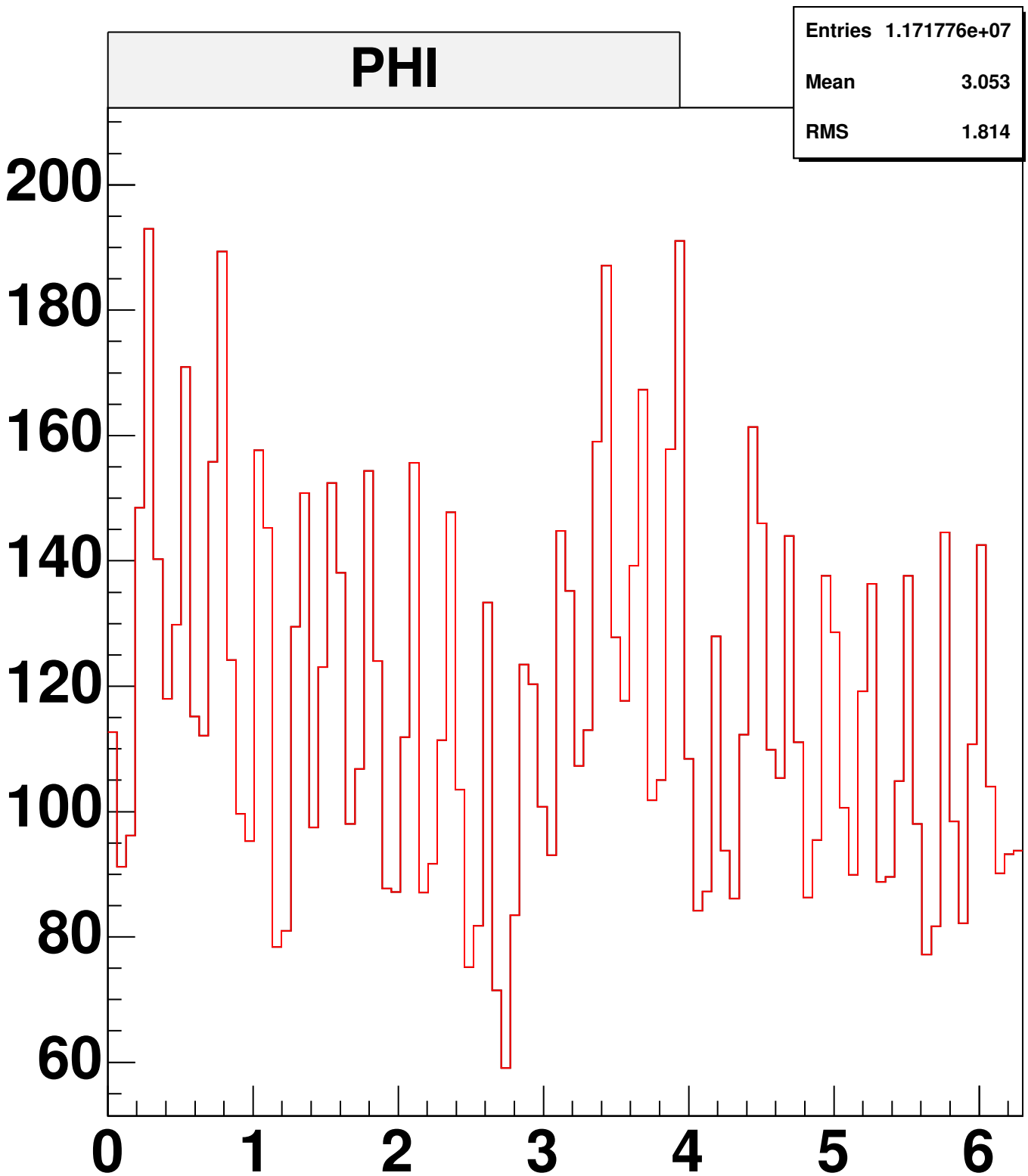




CPS Hit Strips (All Clusters)



CPS Clusters (All Clusters)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Entries 1.171776e+07
Mean 3.053
RMS 1.814
200
180
160
140
120
100
80
60
0
1
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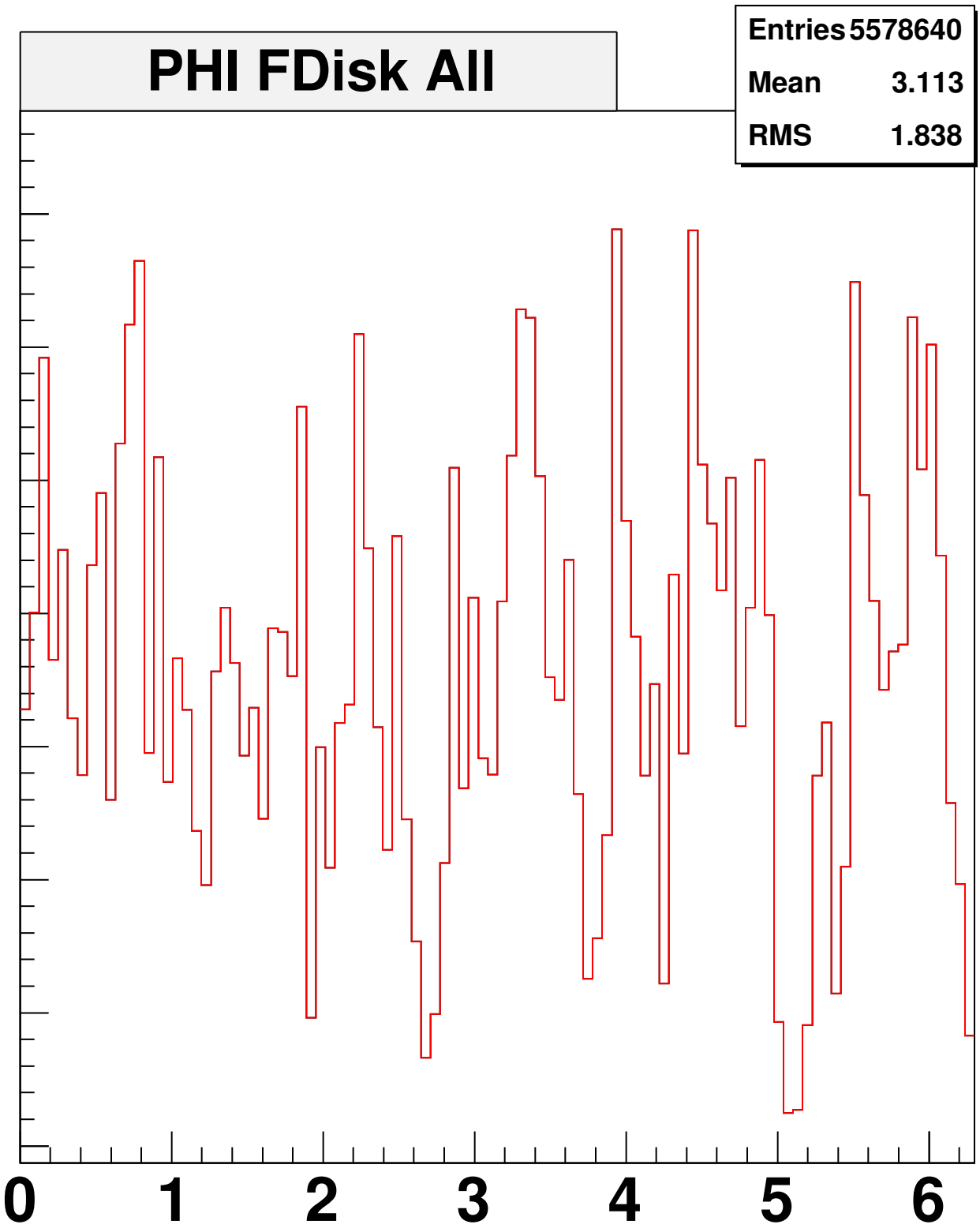
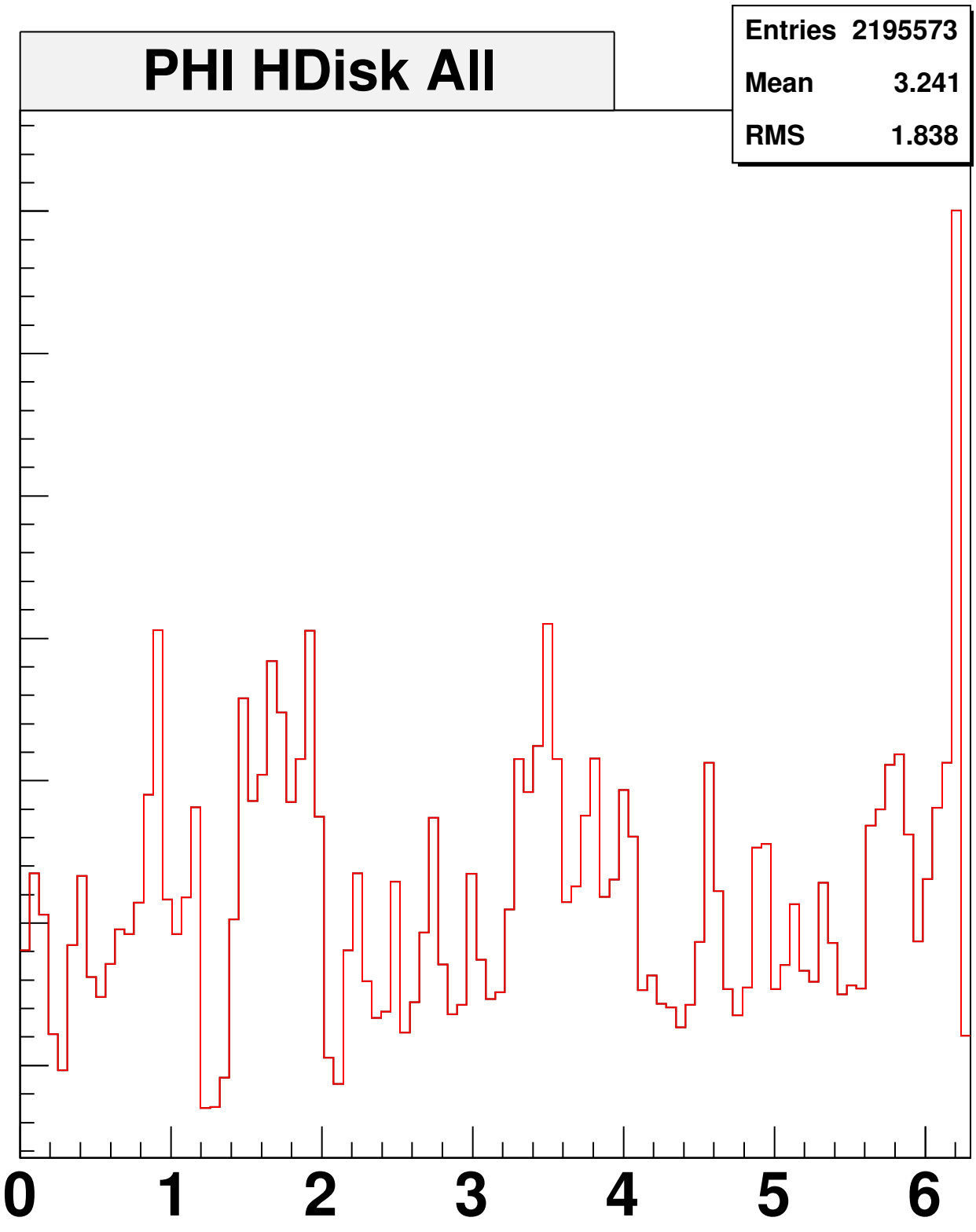
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 5578640
Mean 3.113
RMS 1.838
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)


PHI HDisk All
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Mean 3.241
RMS 1.838
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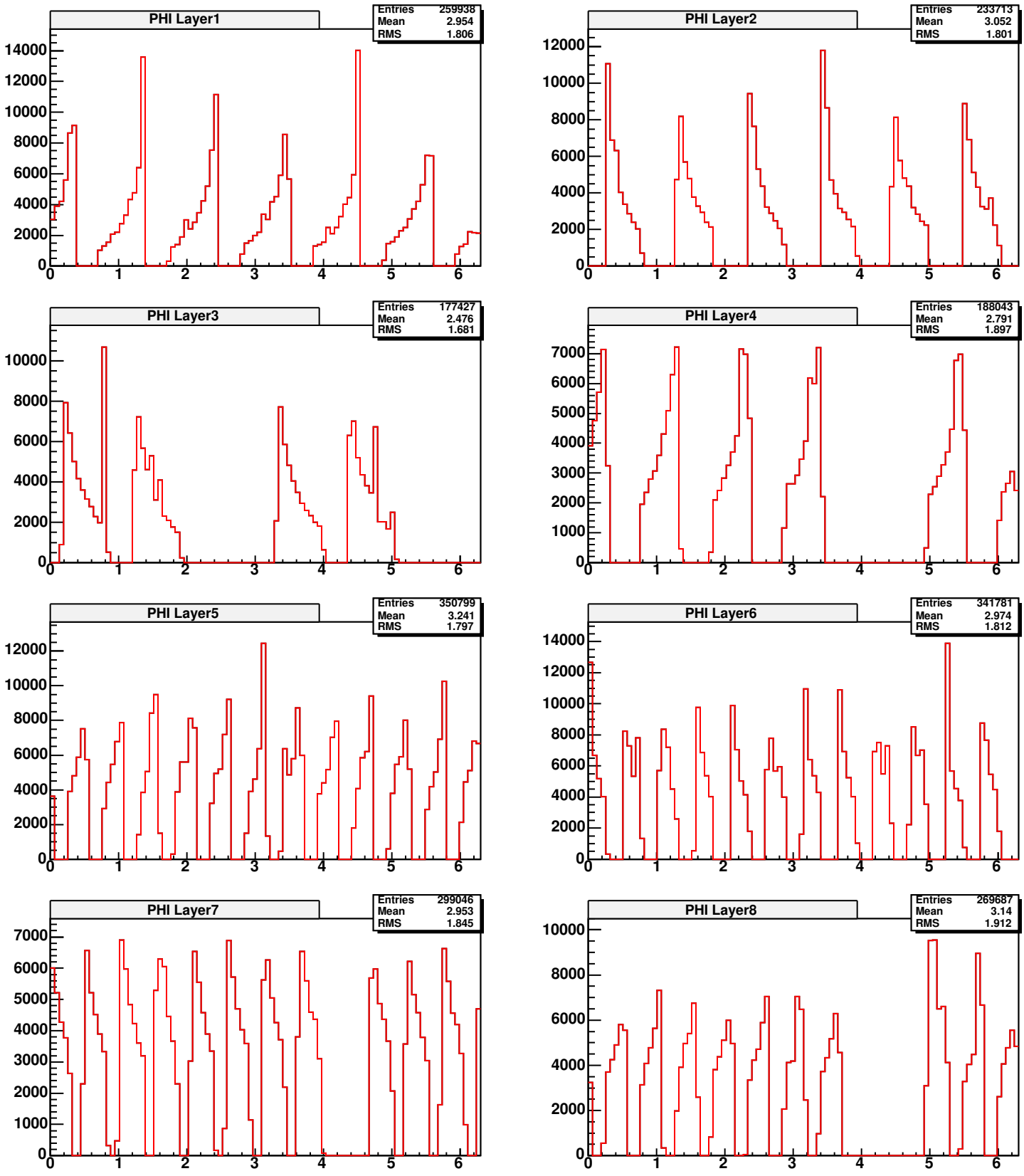
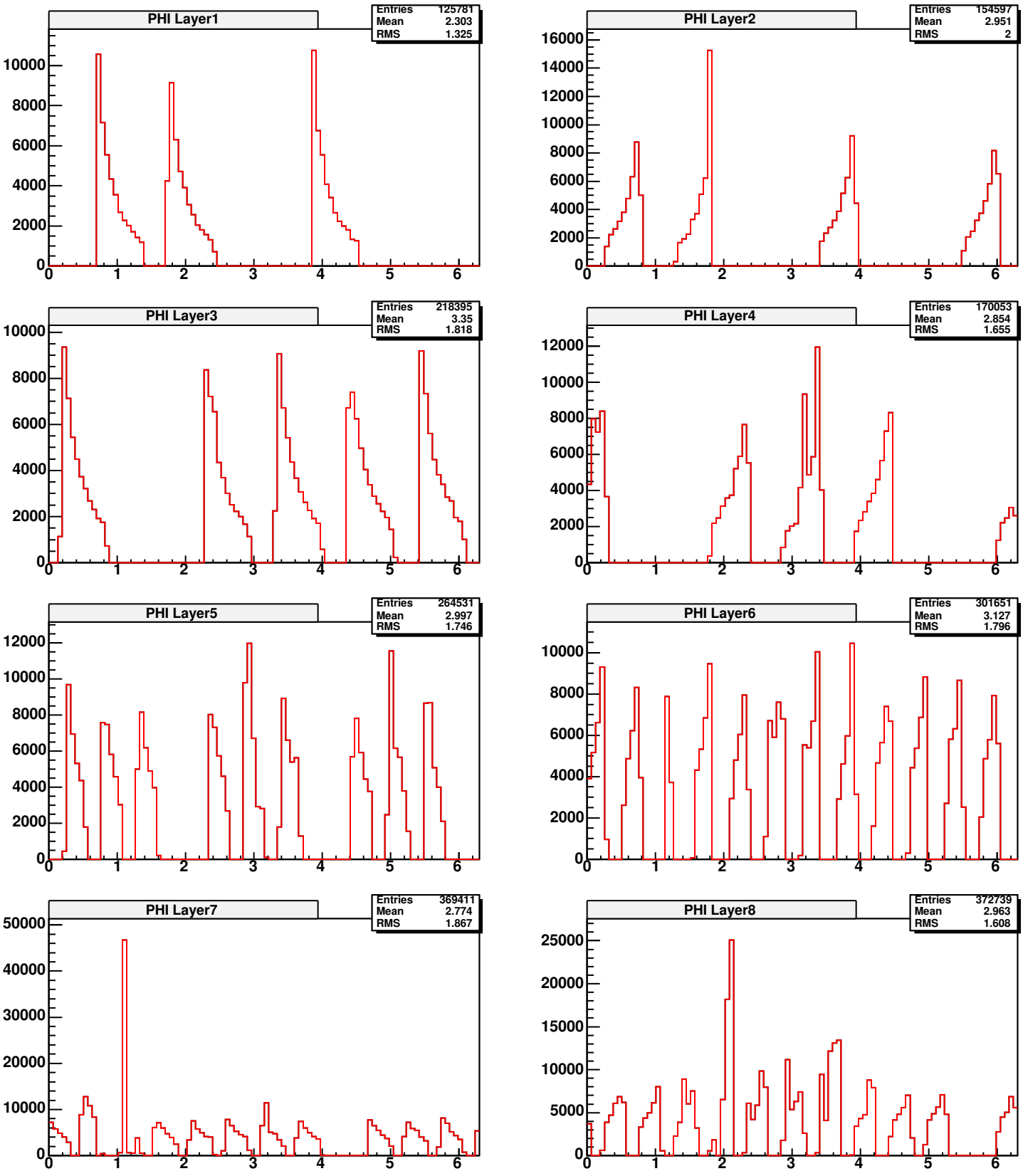
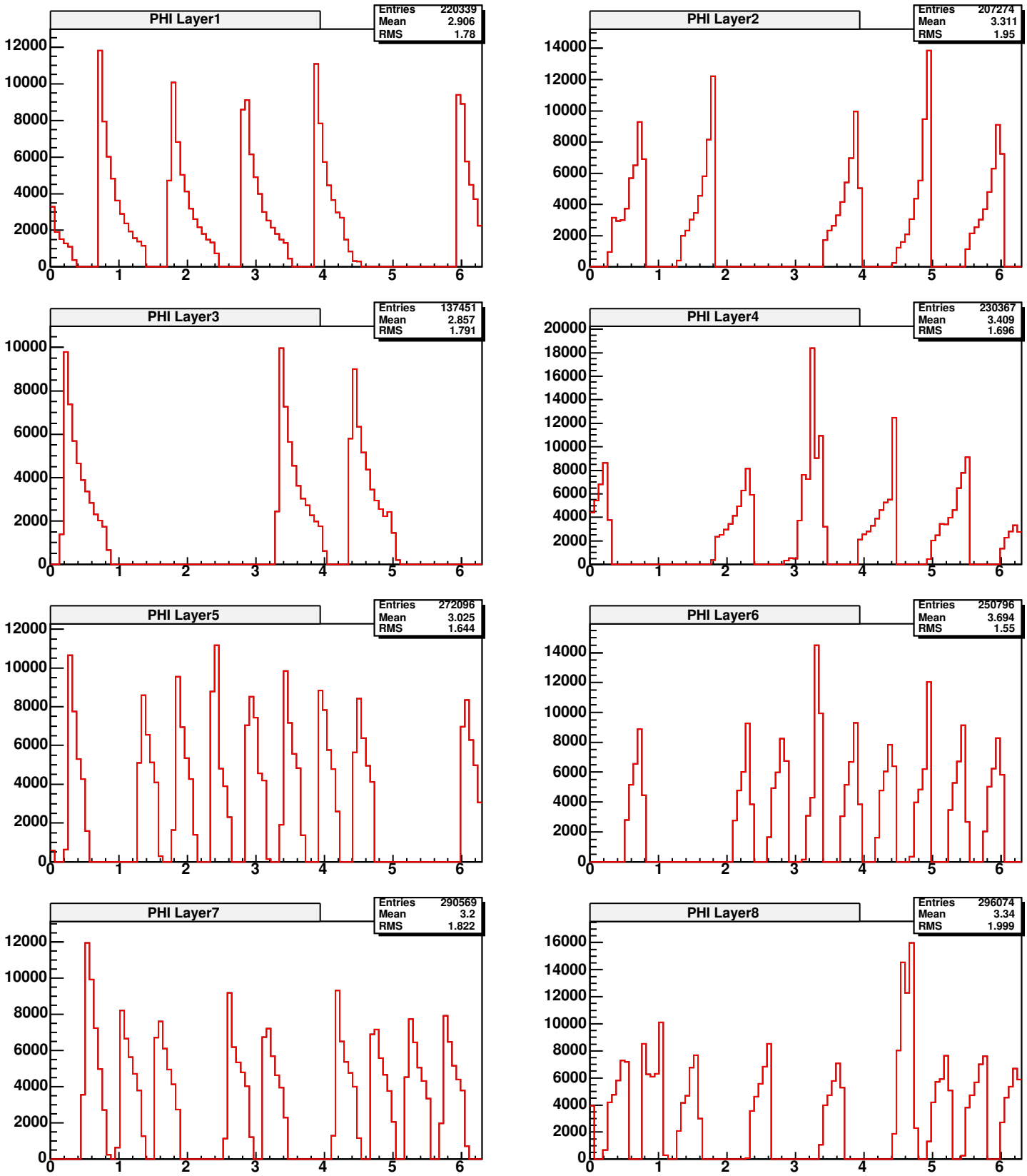
5
6
SmtClusters (allHDiskClusters)



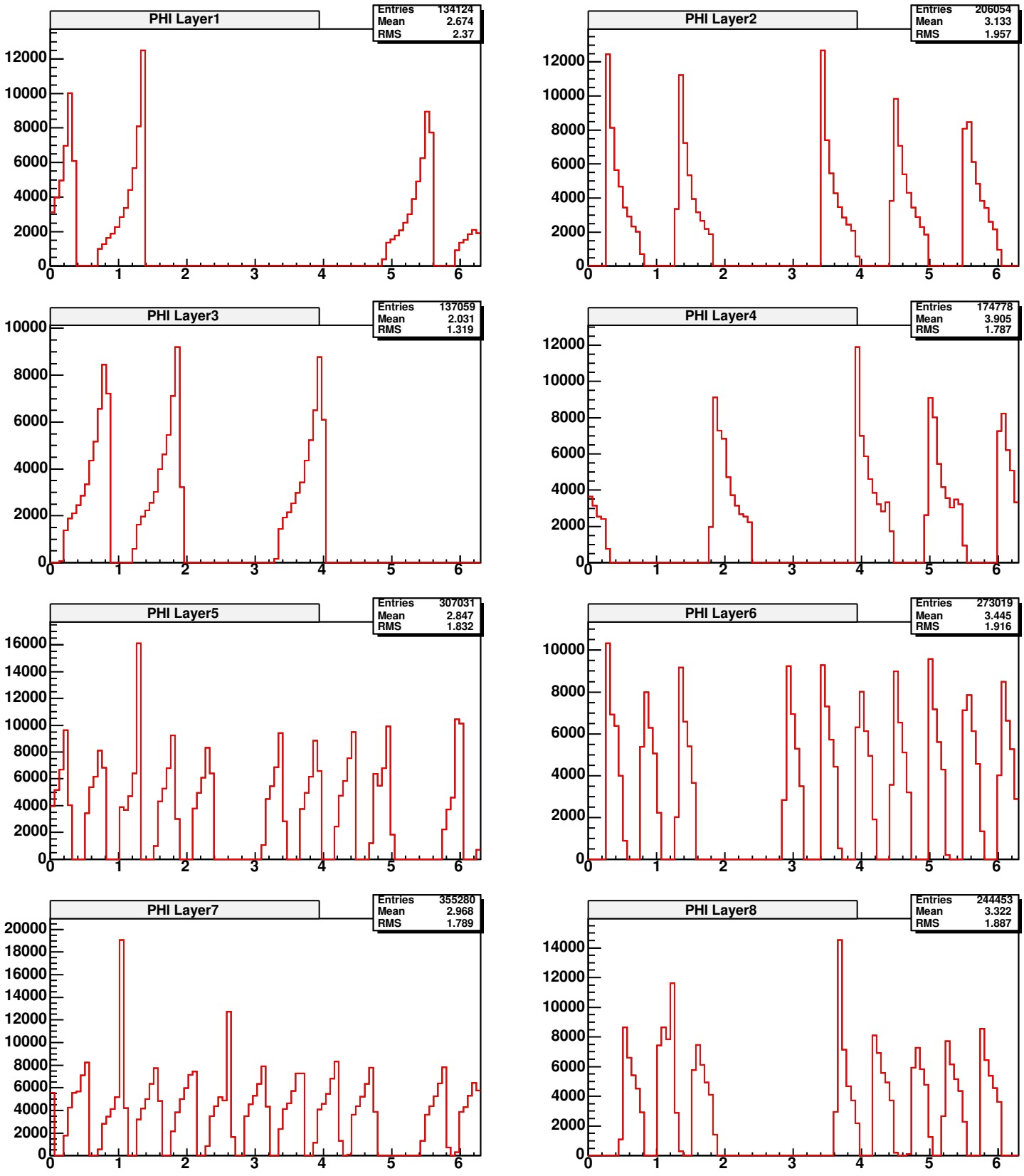
SmtClusters (ClustrBar1)



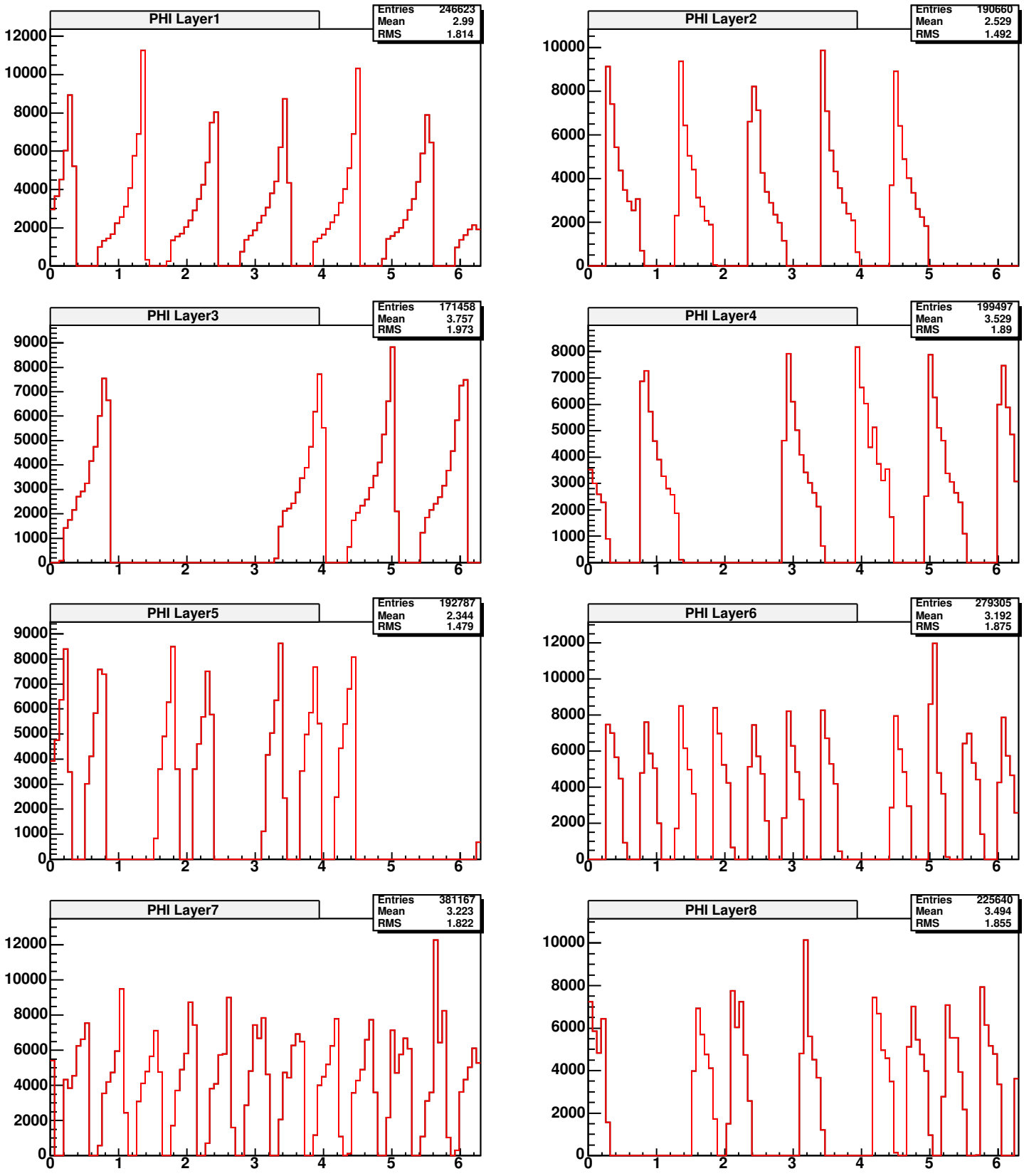
SmtClusters (ClustrBar2)



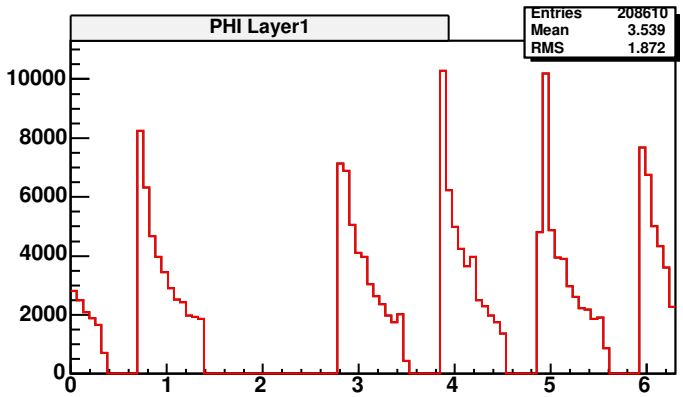
SmtClusters (ClustrBar3)

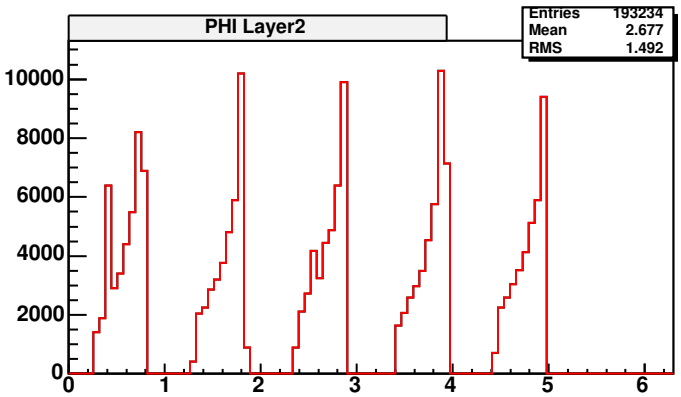


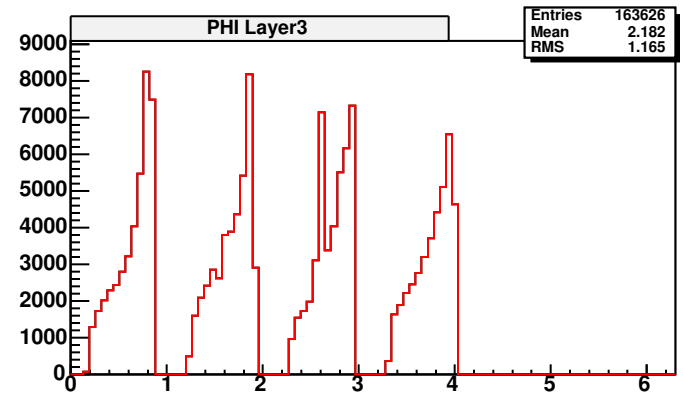
SmtClusters (ClustrBar4)

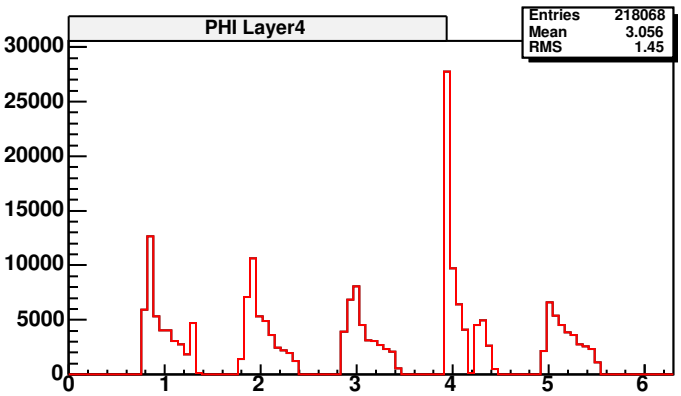


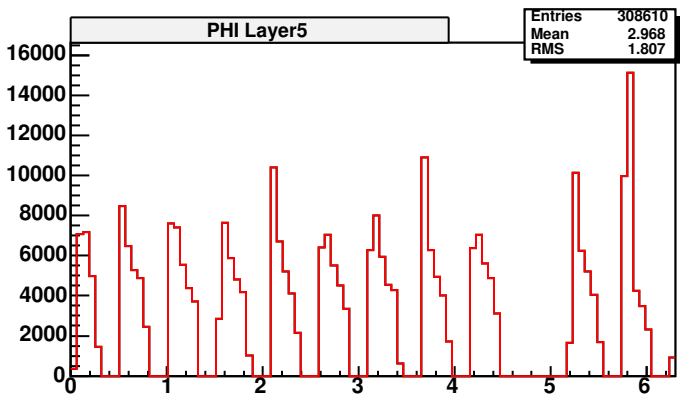
SmtClusters (ClustrBar5)

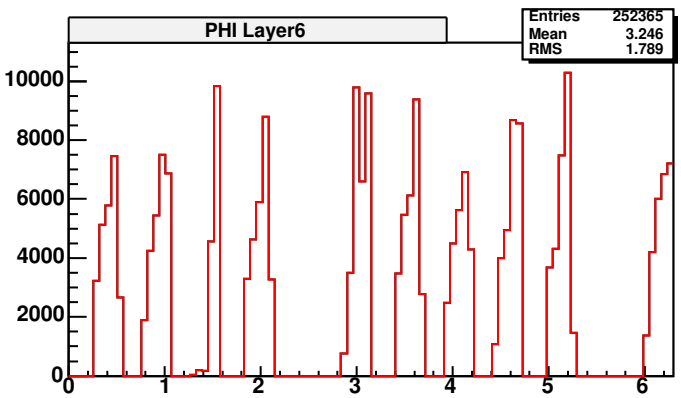


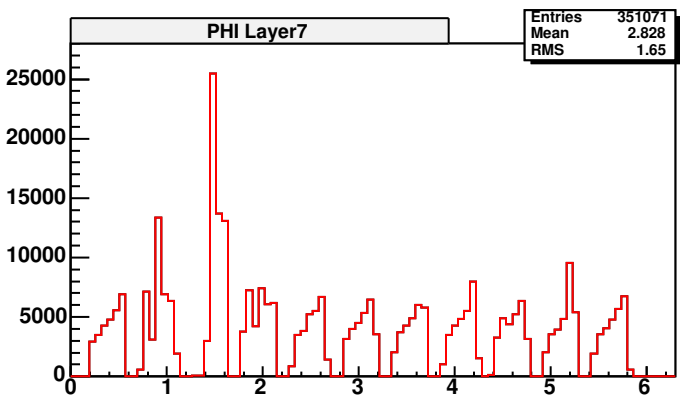


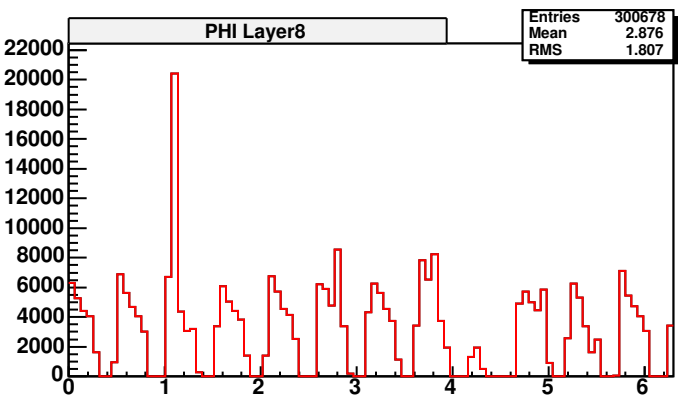




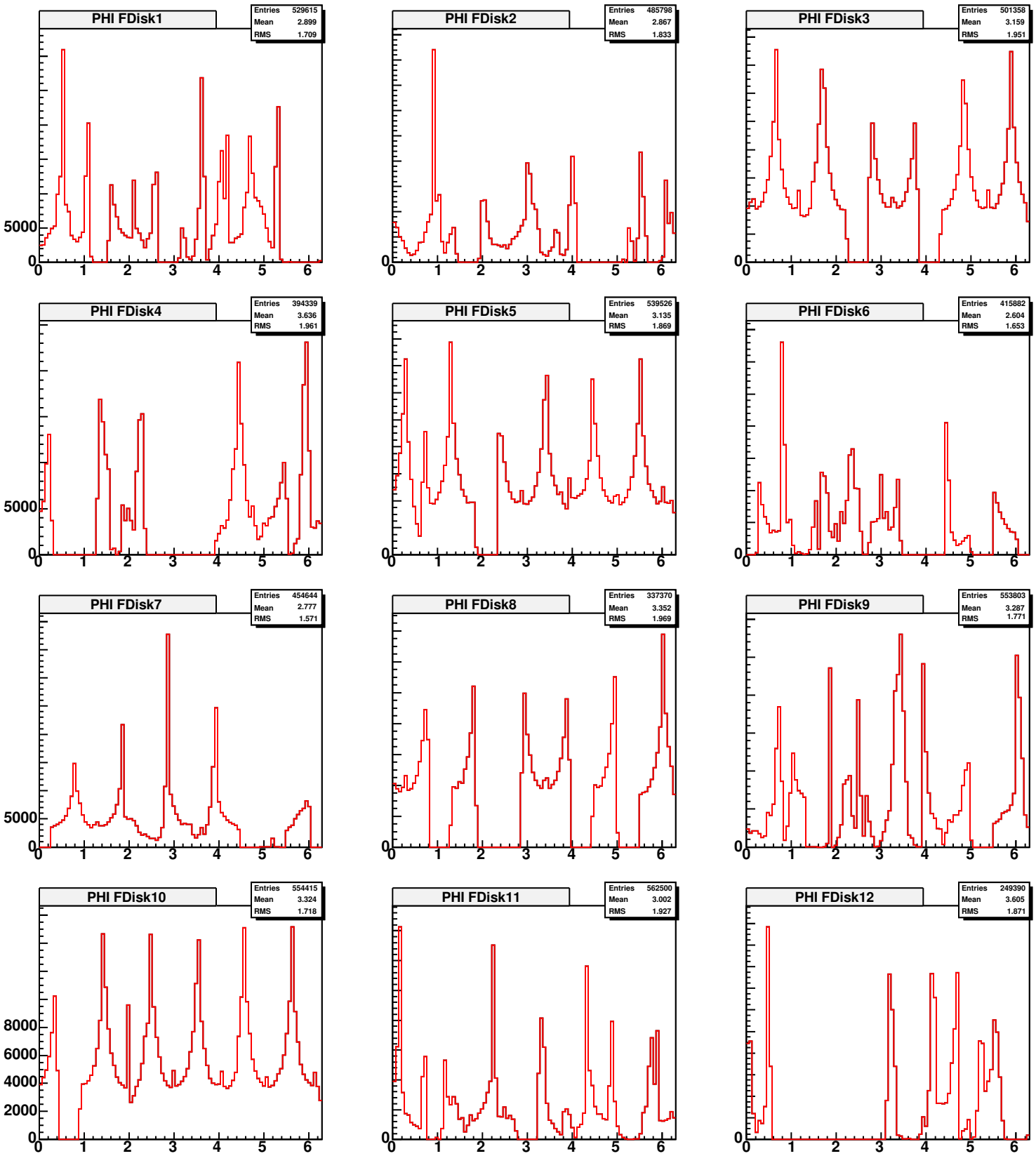




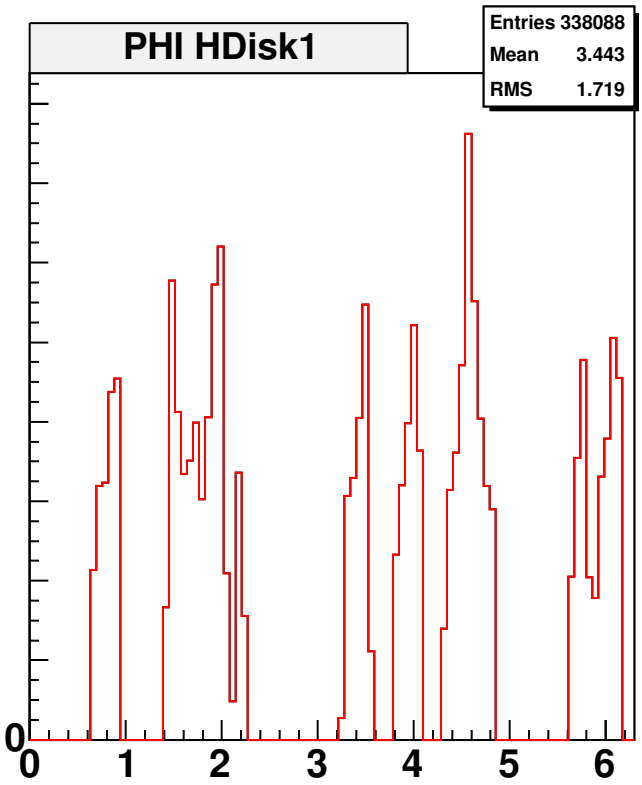


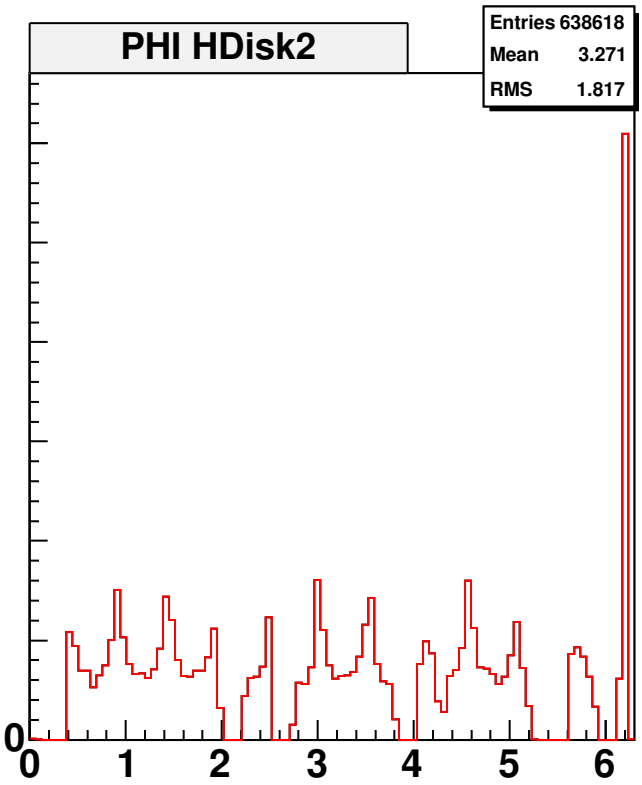


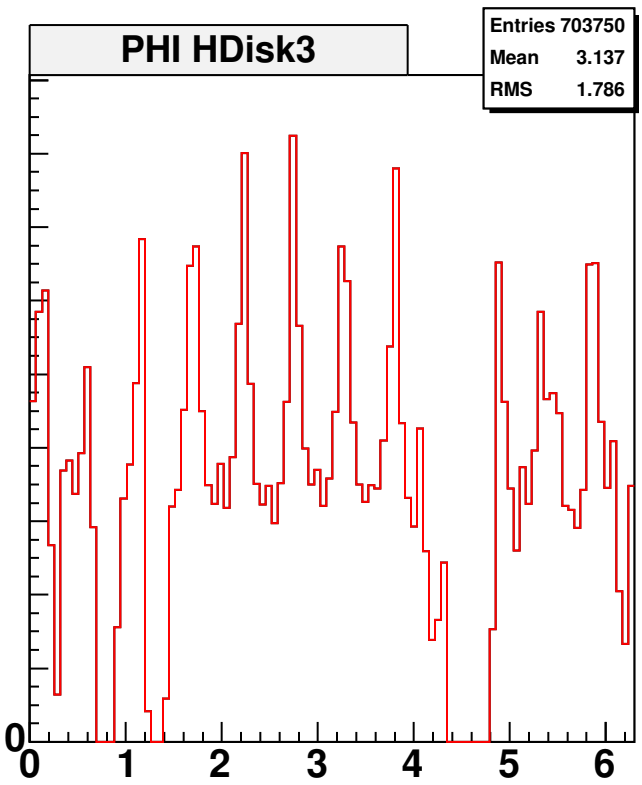
SmtClusters (ClustrBar6)

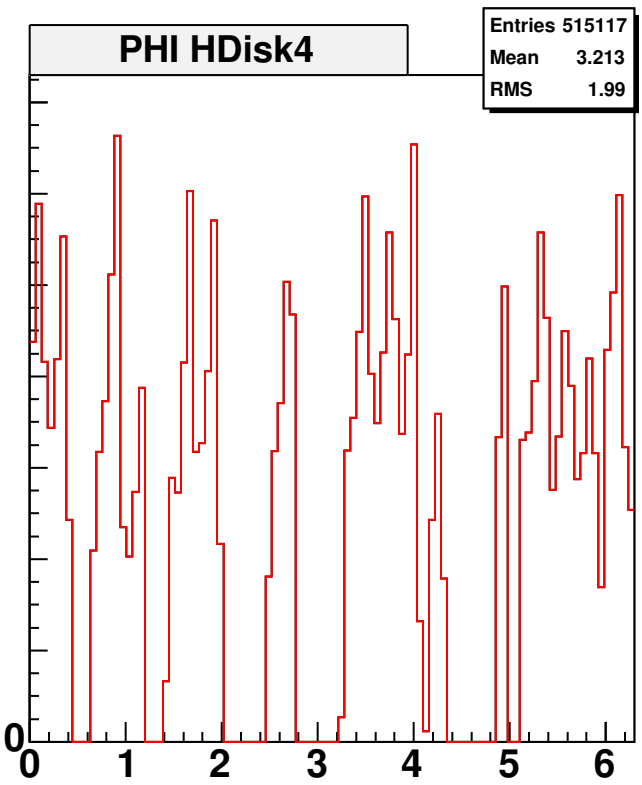


SmtClusters (FDiskClusters)

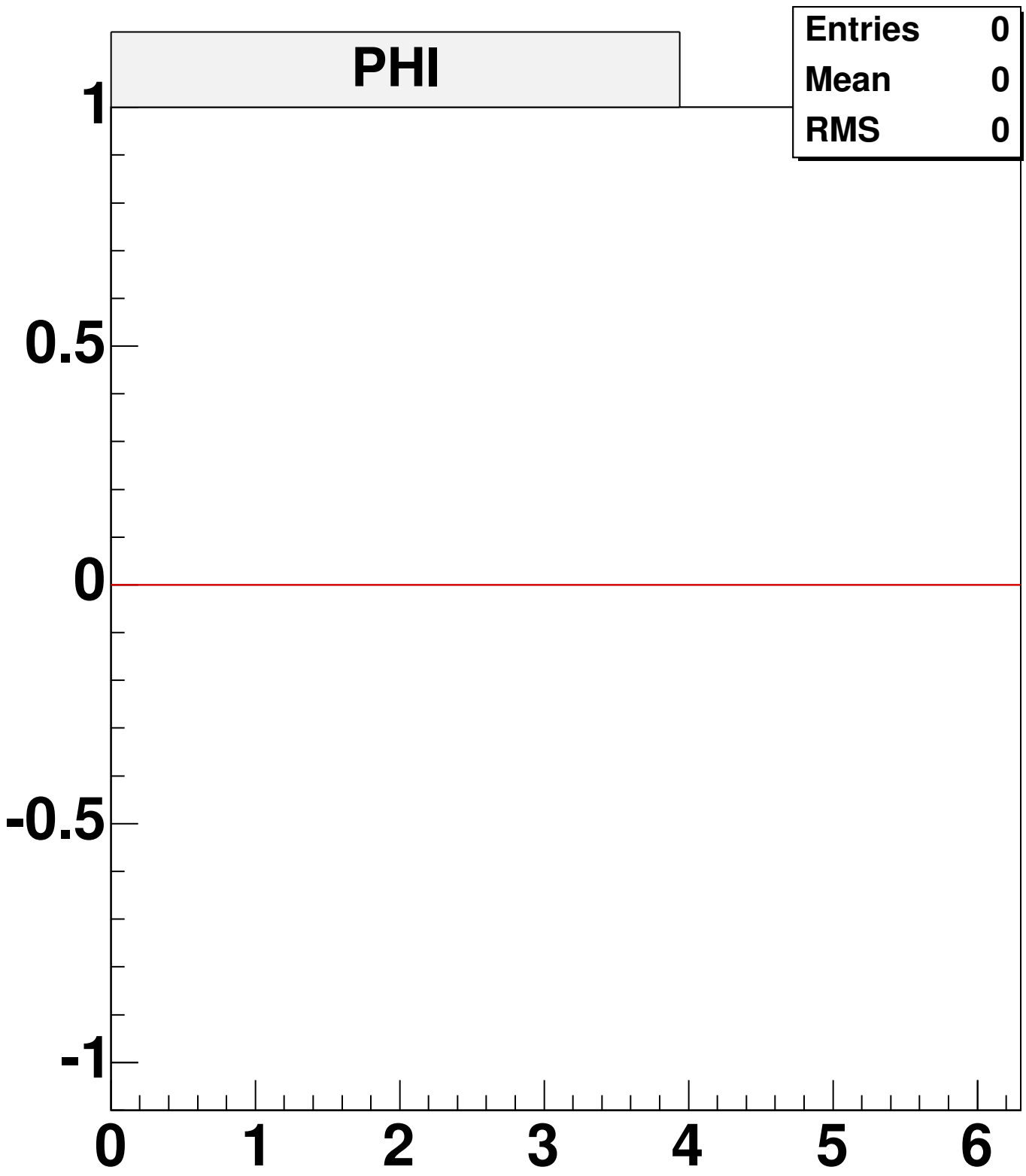








SmtClusters (HDiskClusters)


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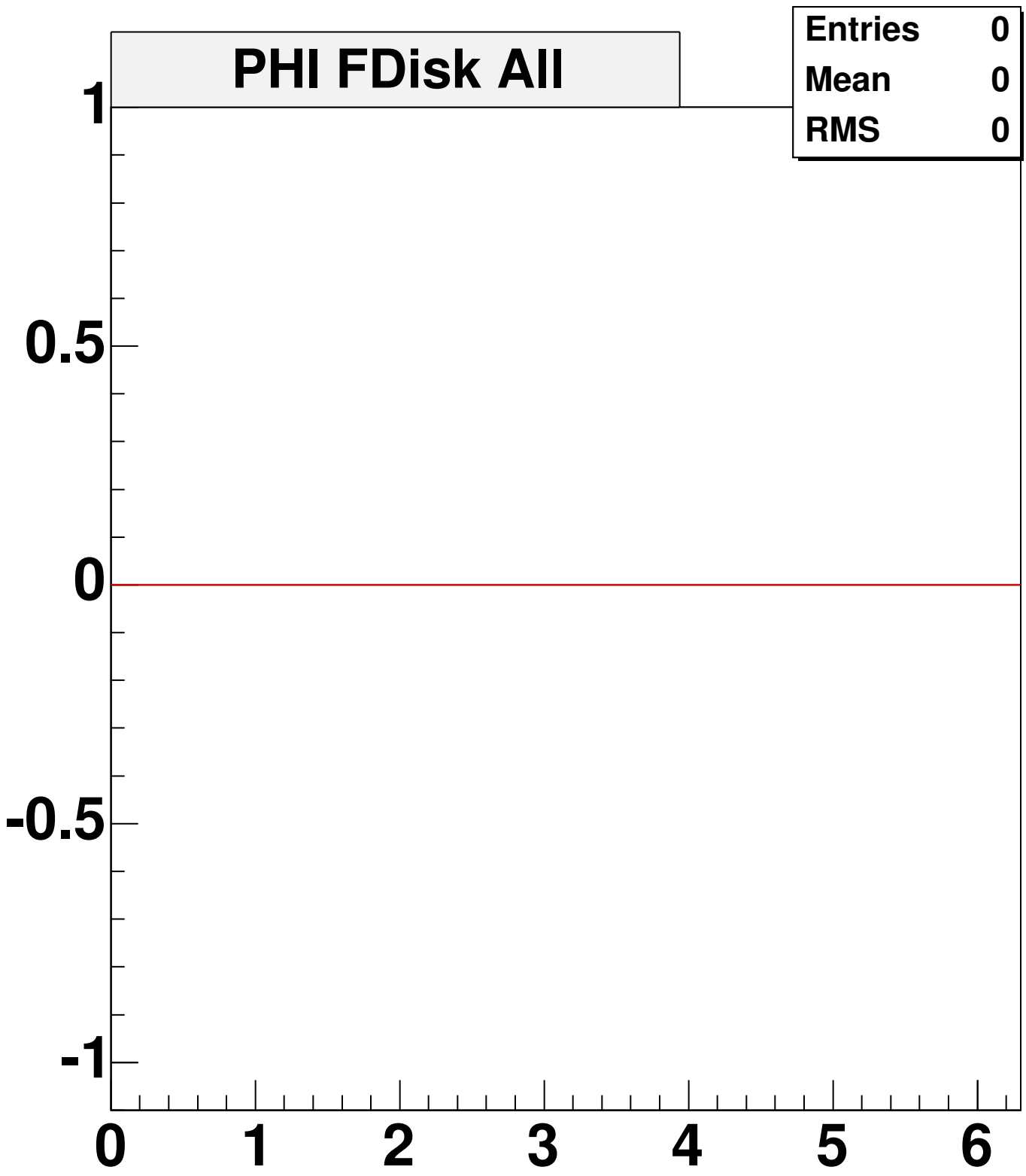
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)


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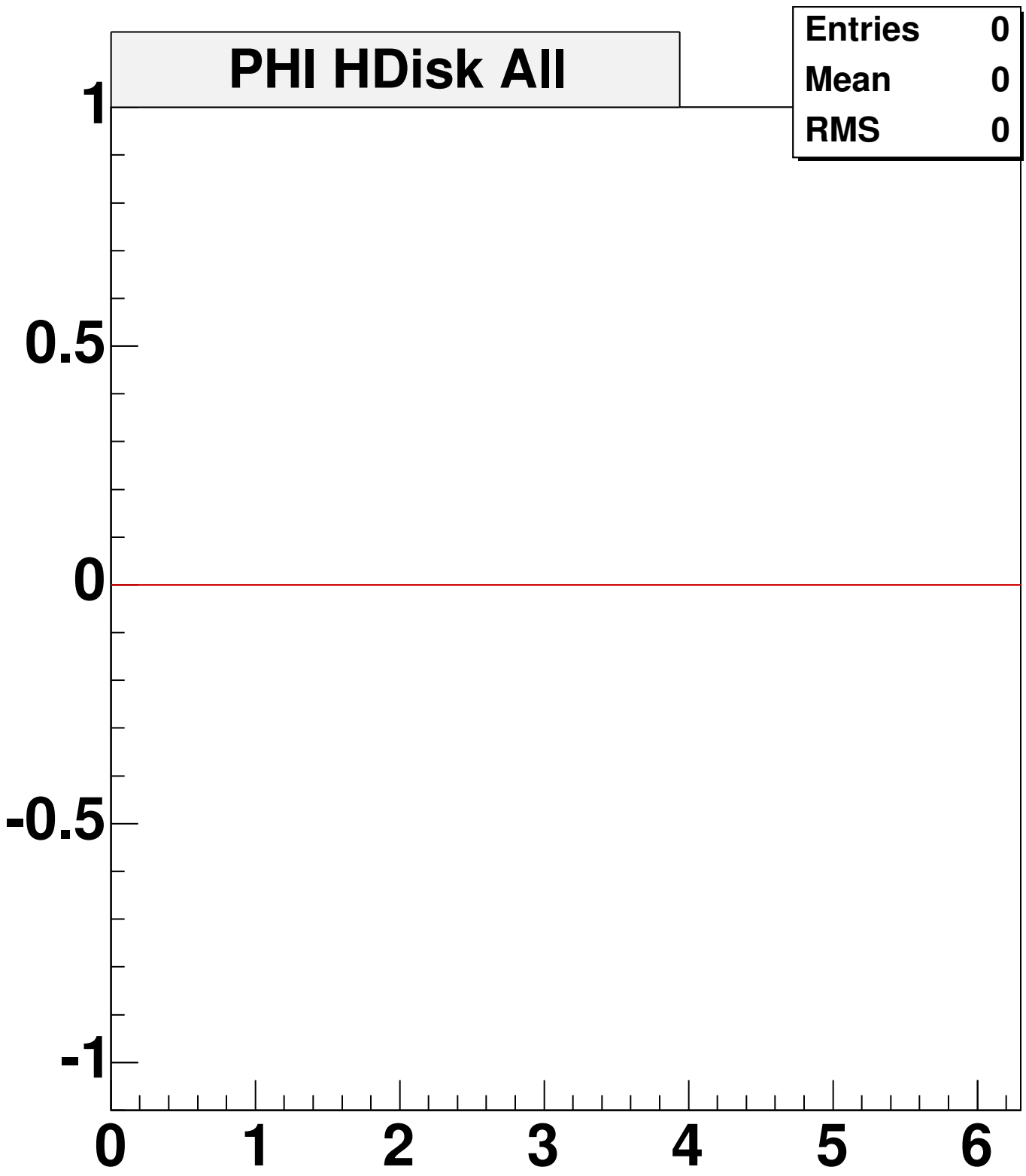
6
SmtClusters (allFDiskTClusters)


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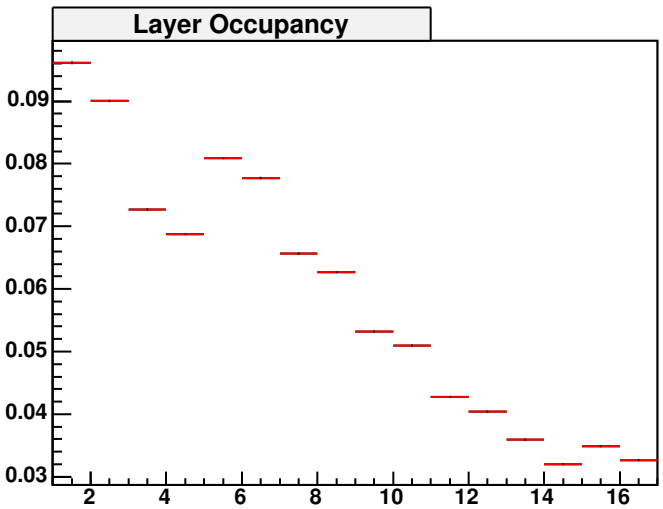
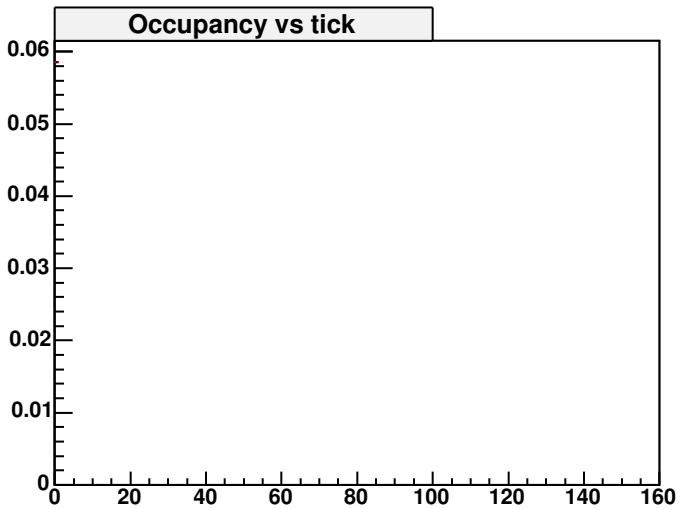
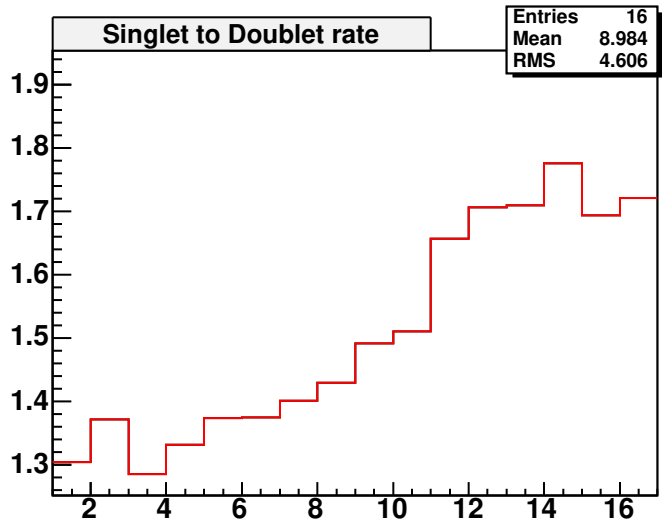
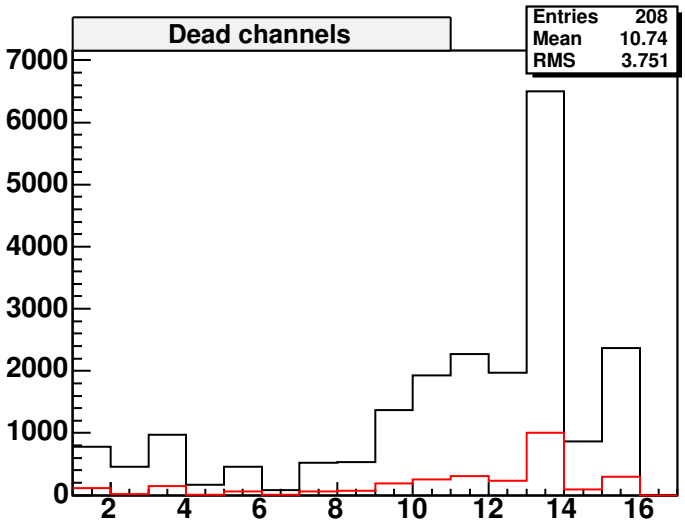
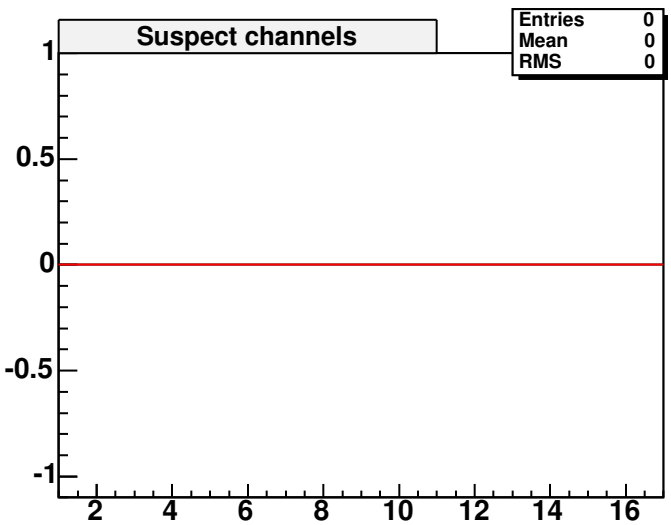
6
SmtClusters (allHDiskTClusters)

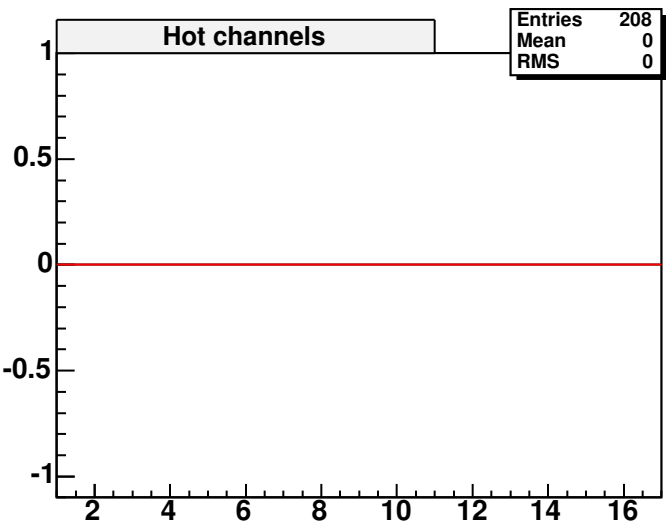




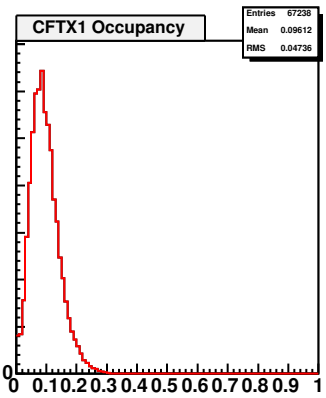


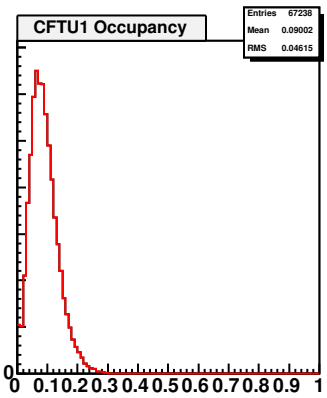


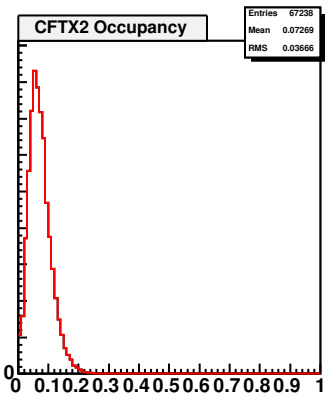


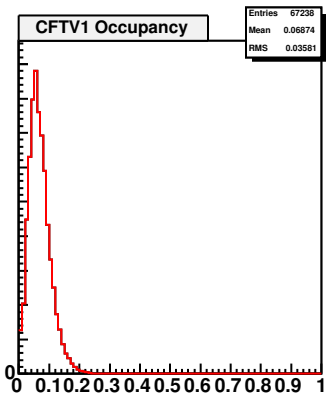


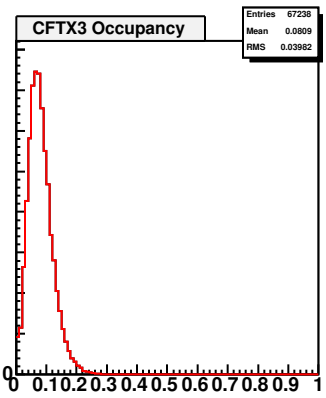
CFT Summary (All Clusters)

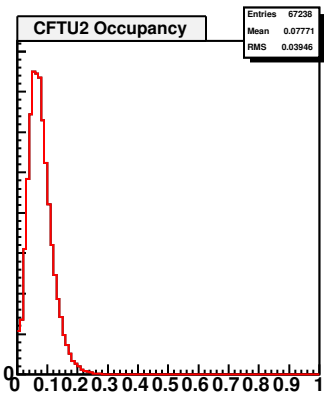


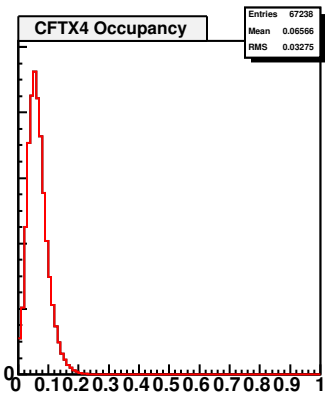


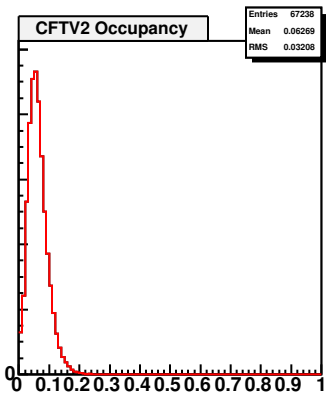


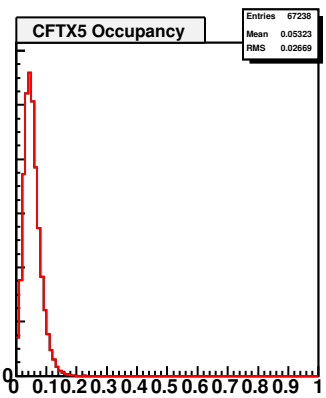


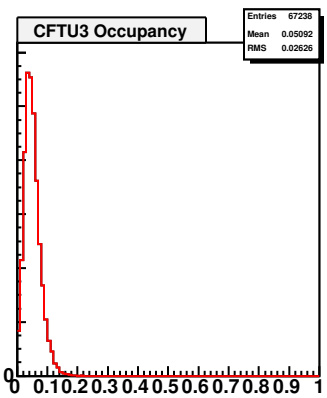


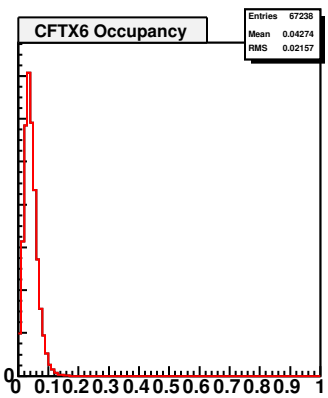


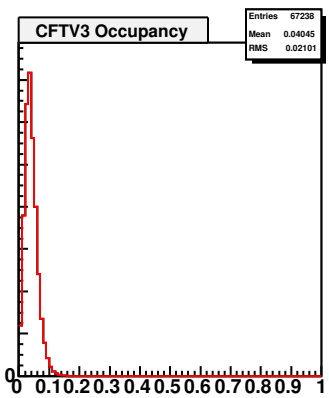


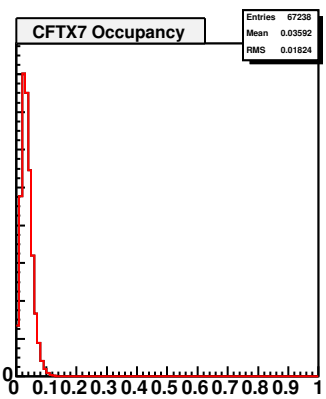


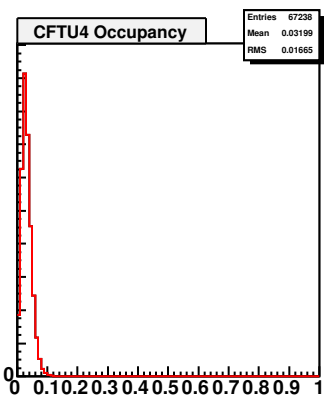


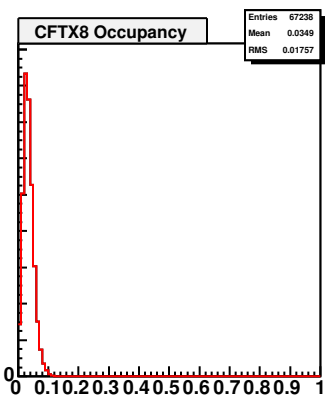


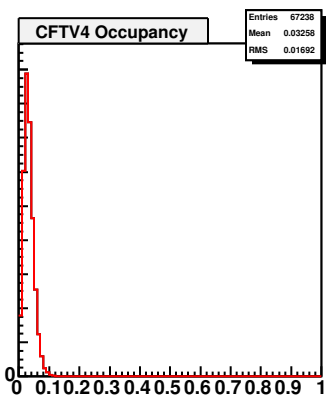




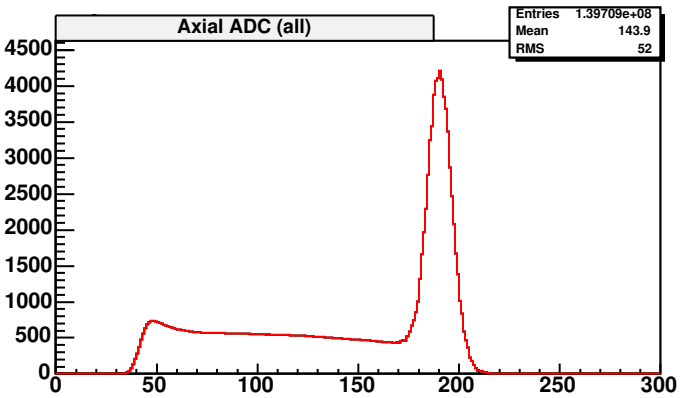


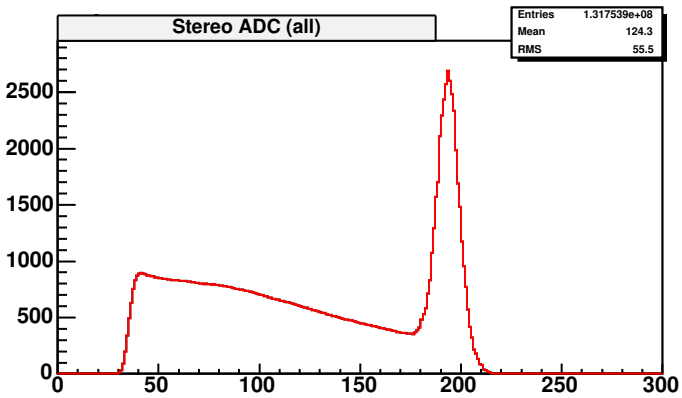


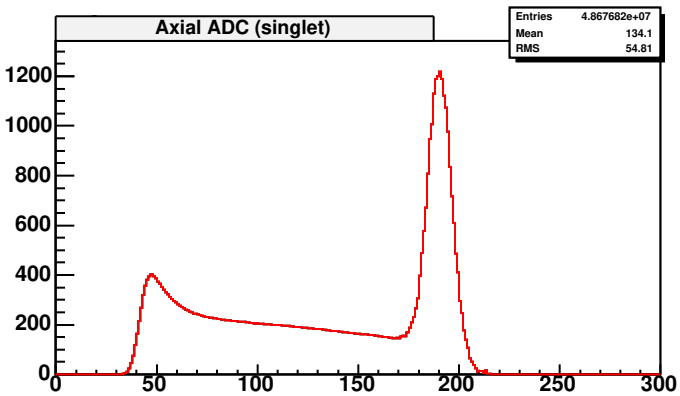


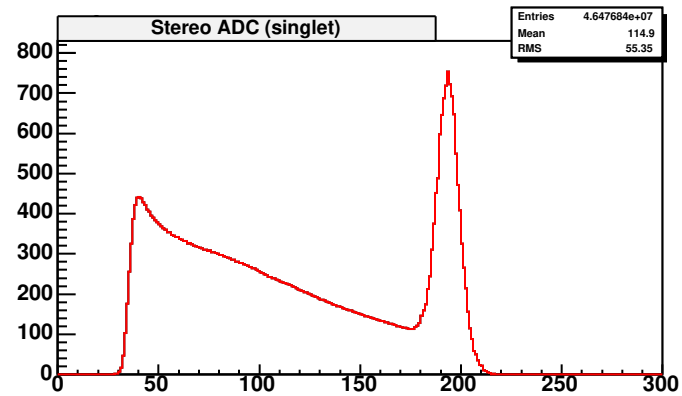


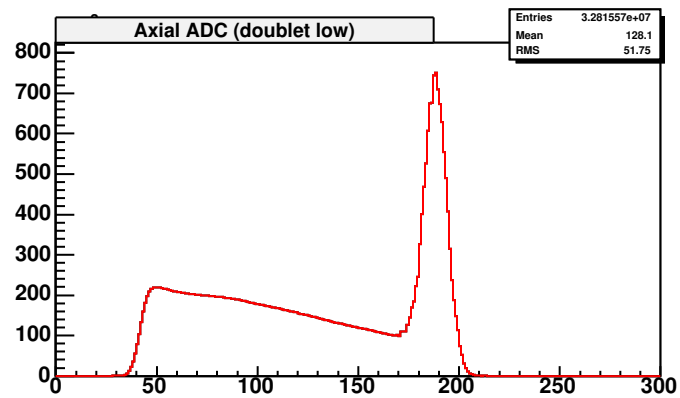
CFT Occupancy (All Clusters)

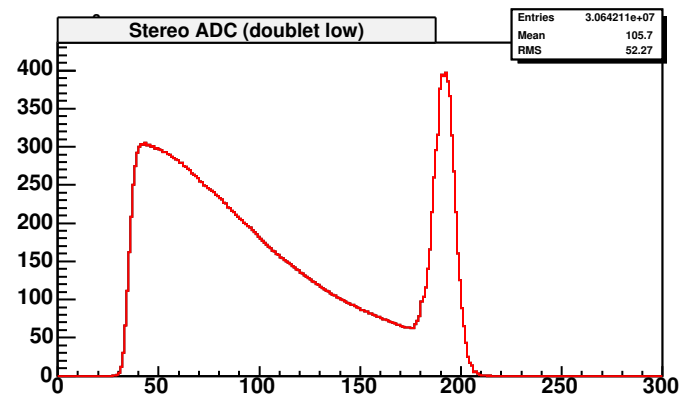


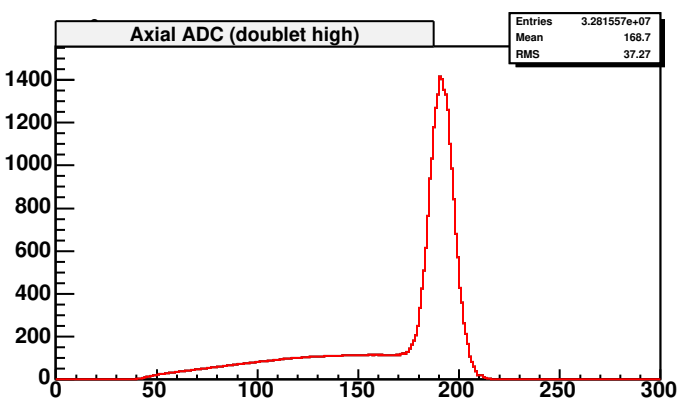


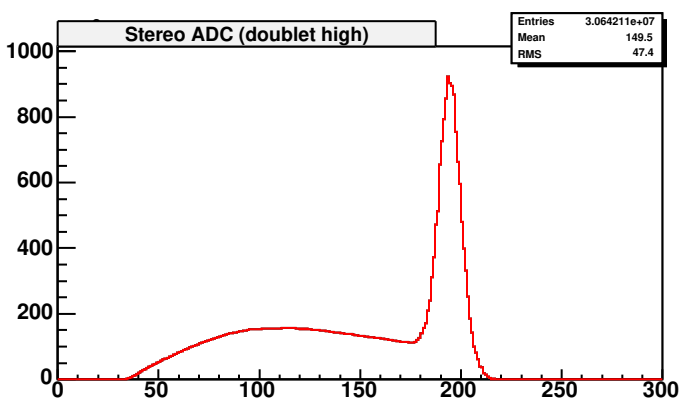




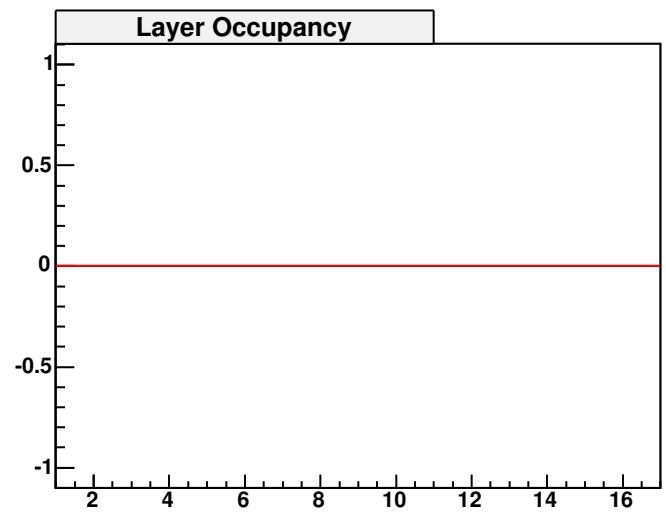


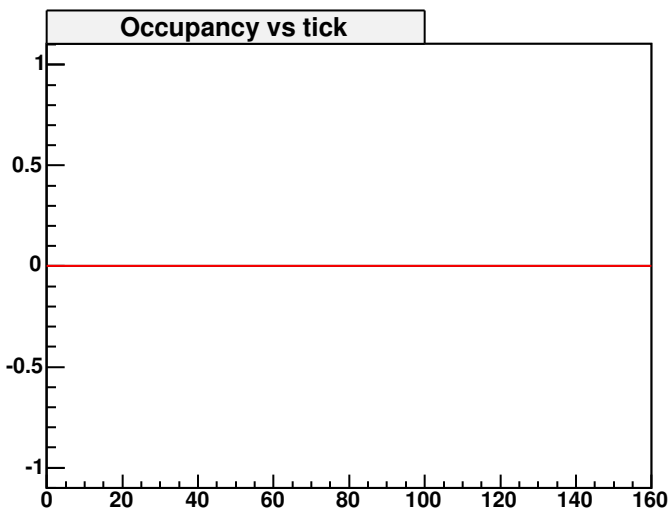


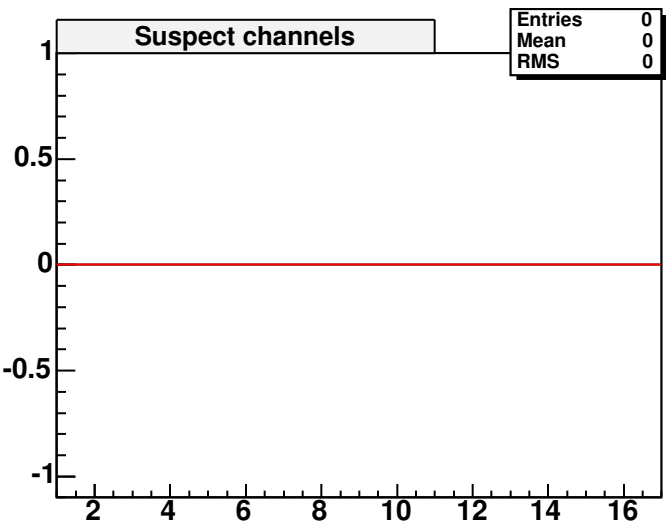


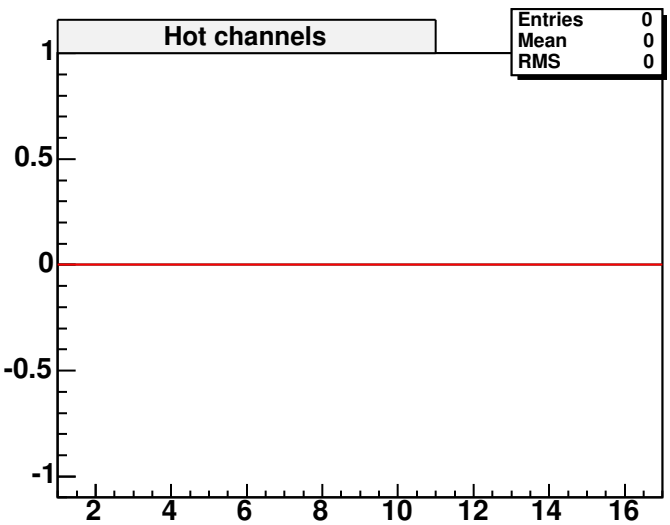


CFT ADC Summary (All Clusters)

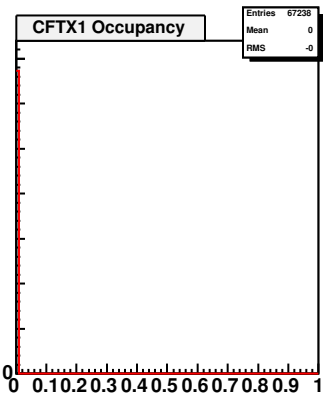


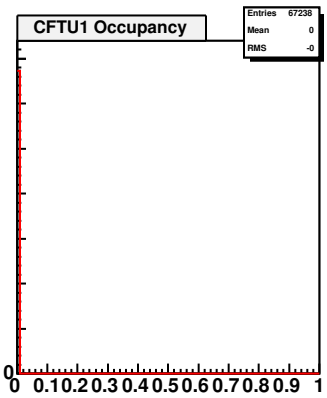


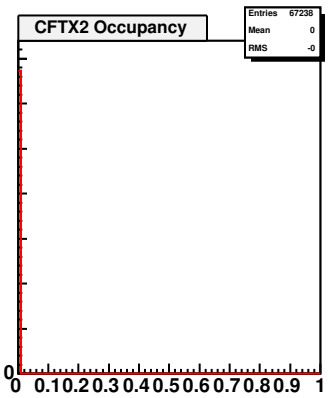


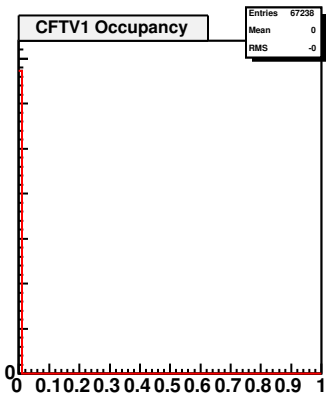


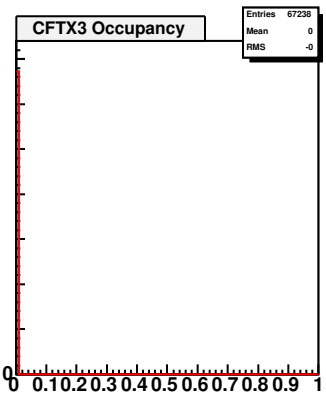
CFT Summary (Clusters on tracks)

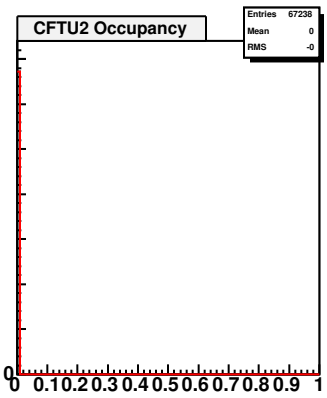


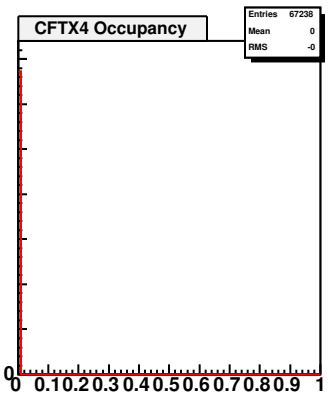


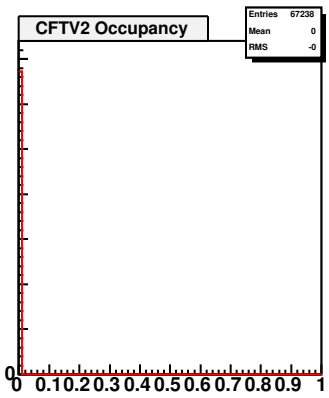


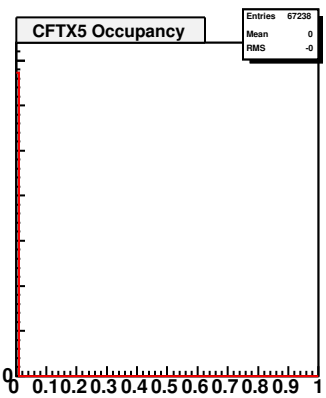


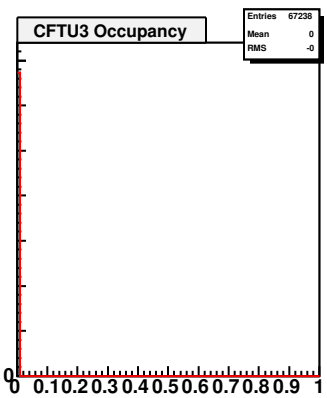


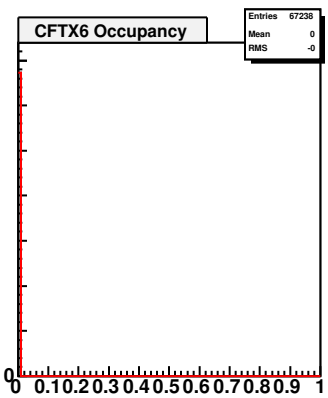


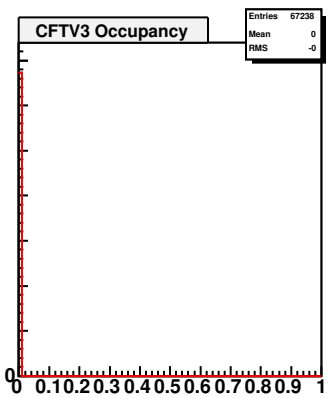


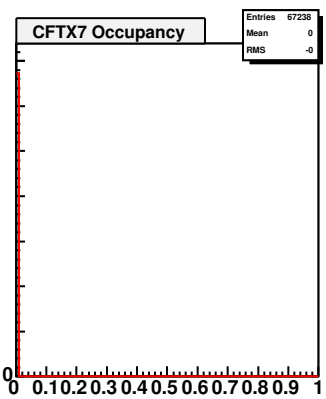


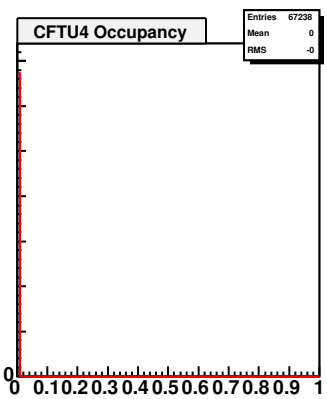


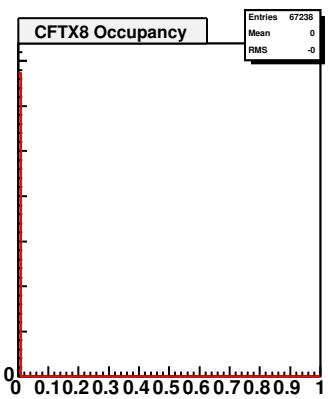


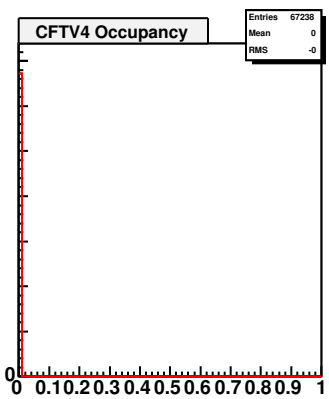




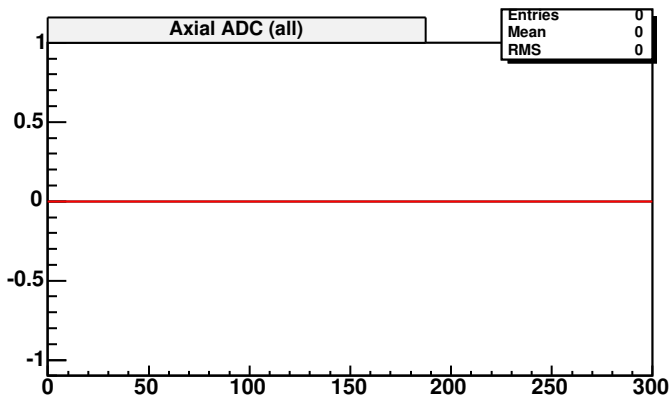


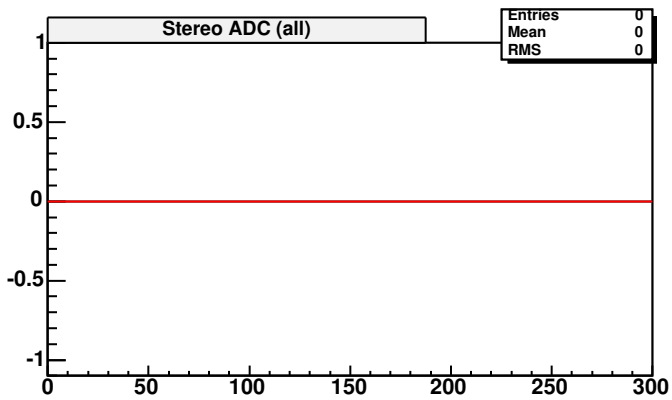


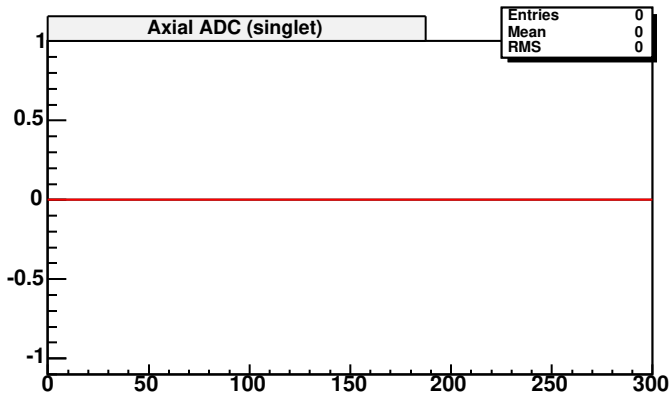


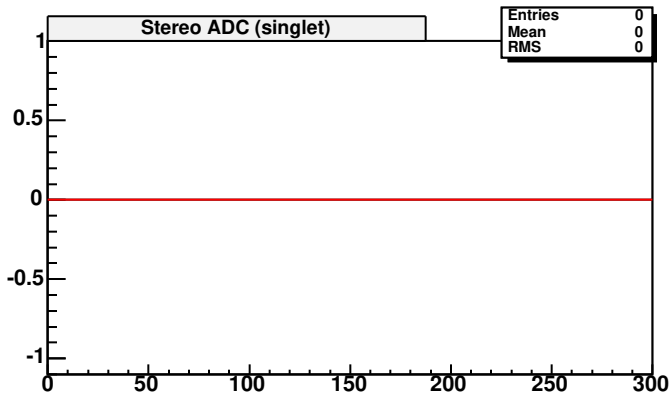


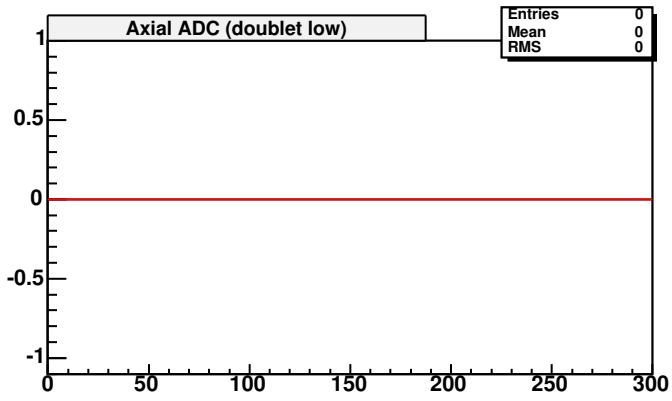
CFT Occupancy (Clusters on tracks)

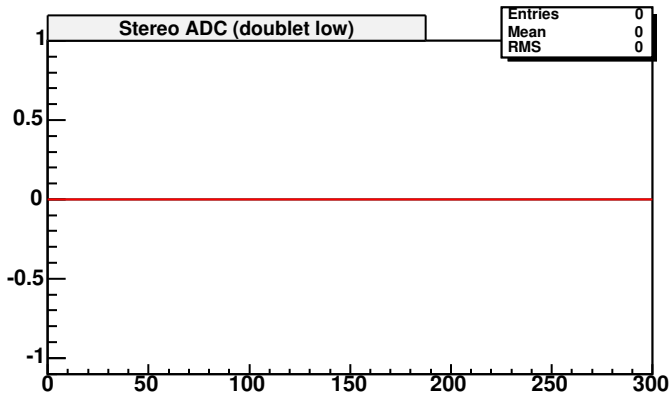


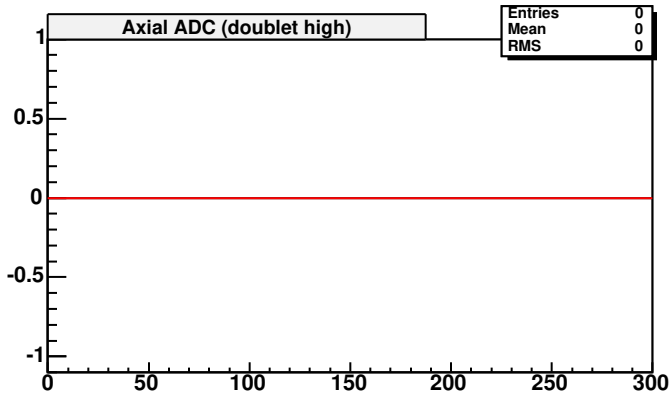


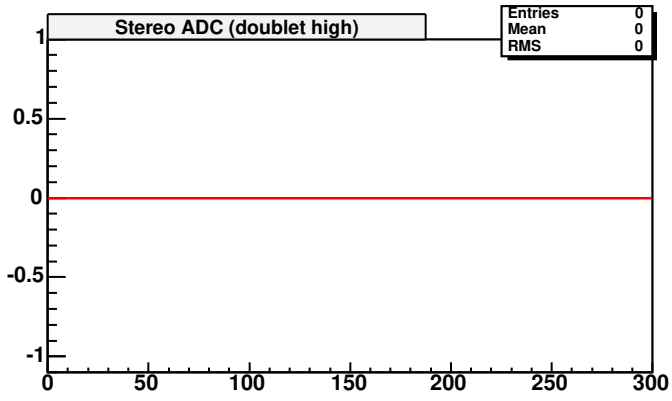




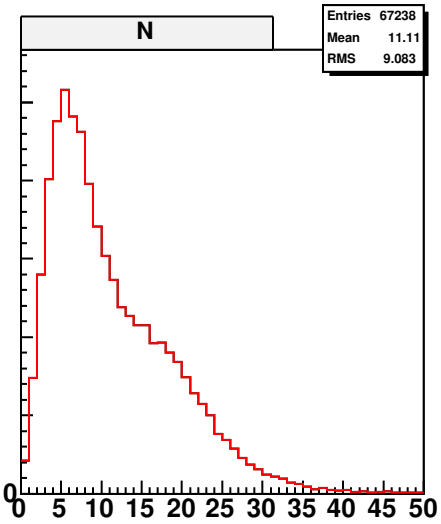


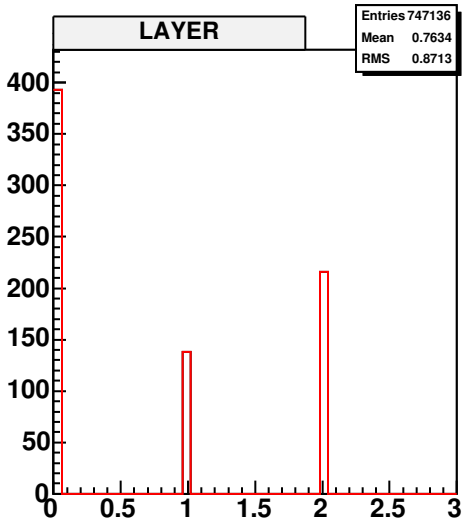


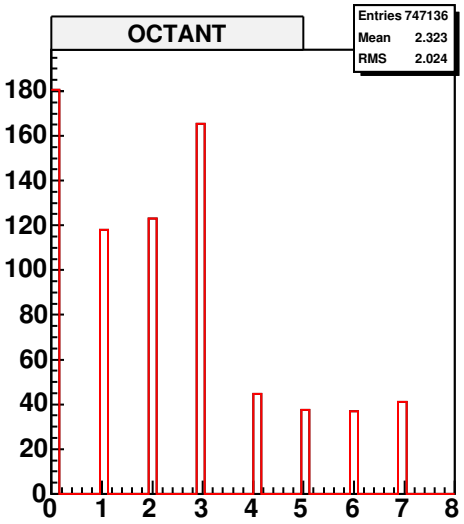


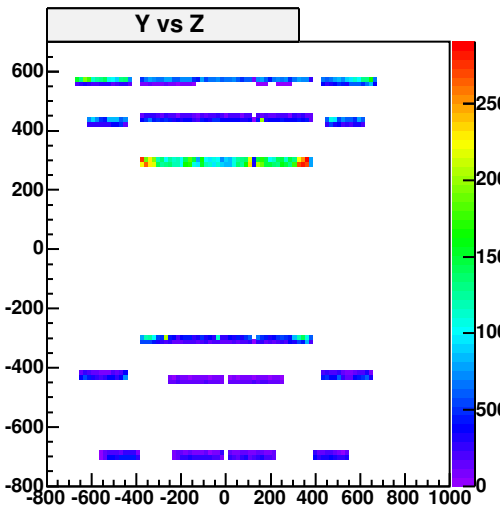


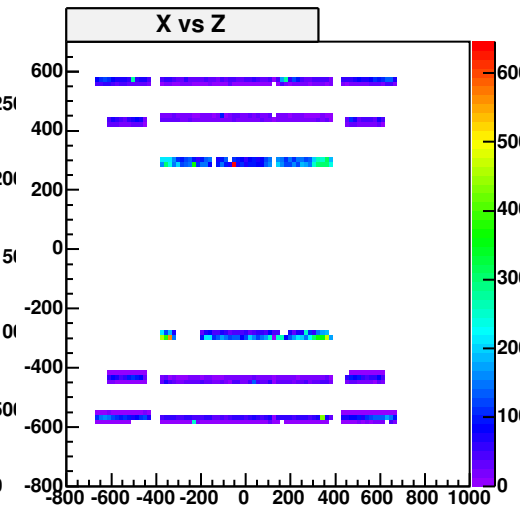
CFT ADC Summary (Clusters on tracks)

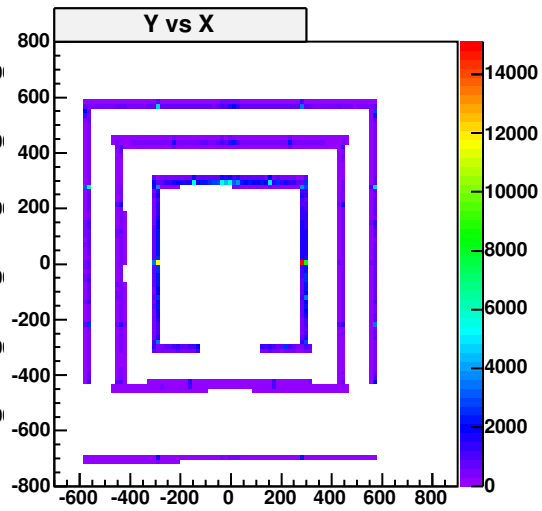

N
Entries 67238
Mean 11.11
RMS 9.083

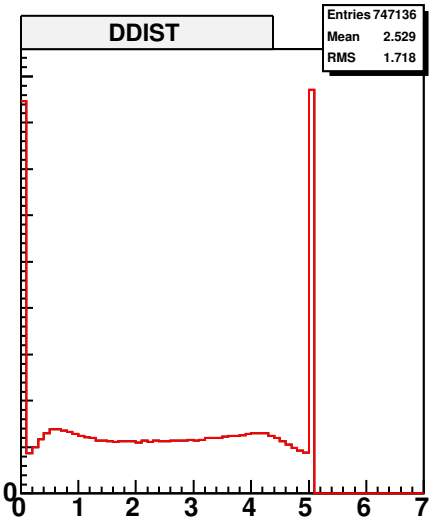

LAYER
Entries 747136
Mean 0.7634
RMS 0.8713

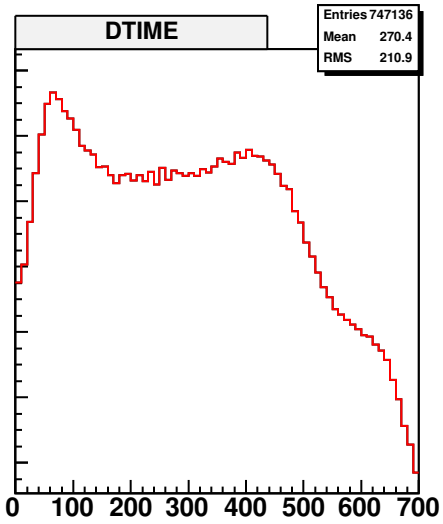

OCTANT
Entries 747136
Mean 2.323
RMS 2.024


Y vs Z

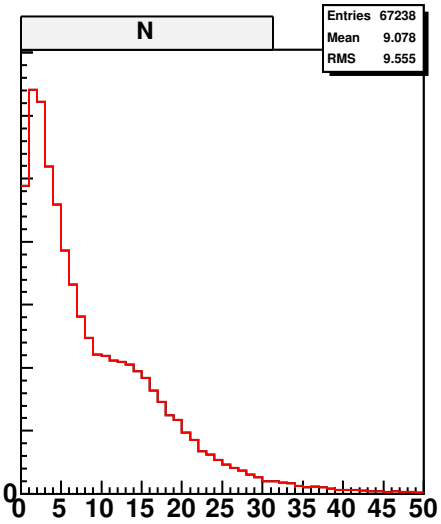

X vs Z

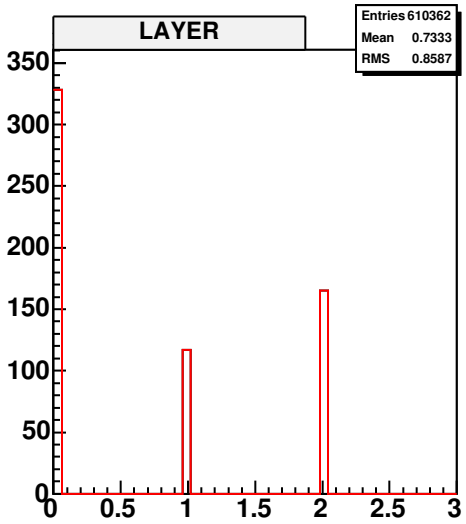

Y vs X

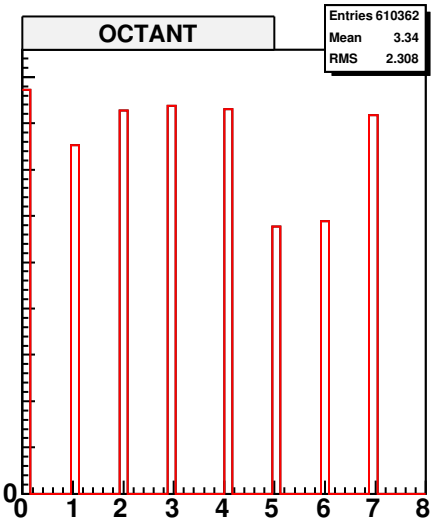

DDIST
Entries 747136
Mean 2.529
RMS 1.718

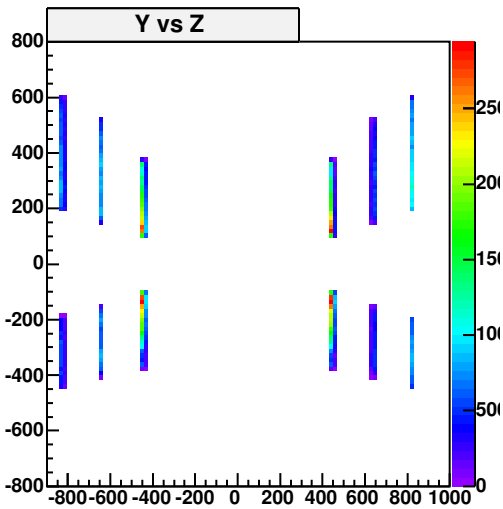

DTIME
Entries 747136
Mean 270.4
RMS 210.9

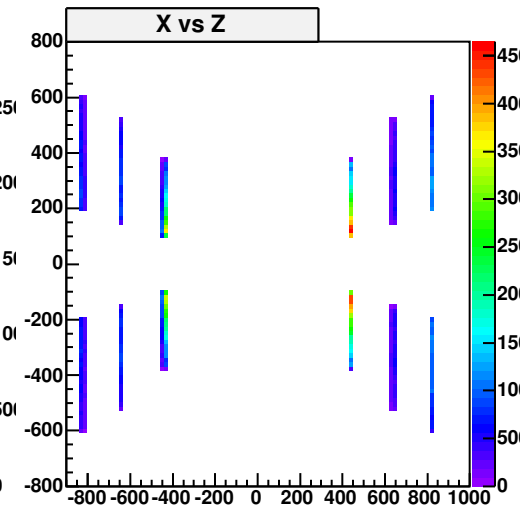
MuonPDT (All)

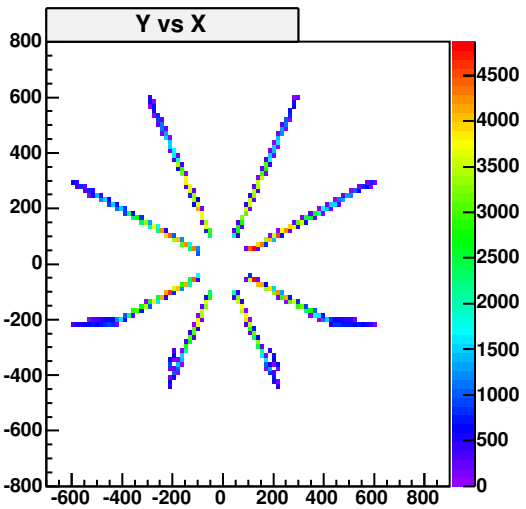

N
Entries 67238
Mean 9.078
RMS 9.555

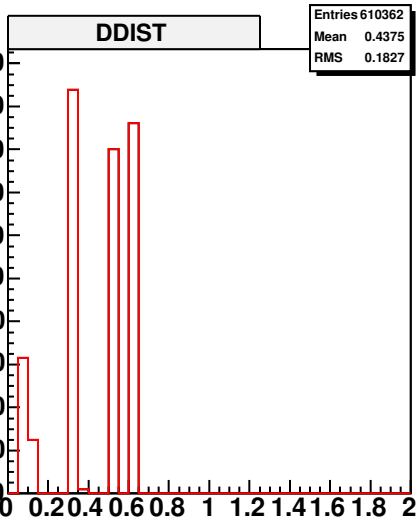

LAYER
Entries 610362
Mean 0.7333
RMS 0.8587

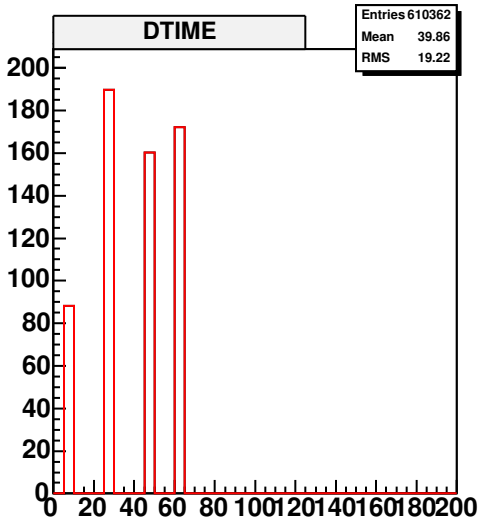

OCTANT
Entries 610362
Mean 3.34
RMS 2.308


Y vs Z

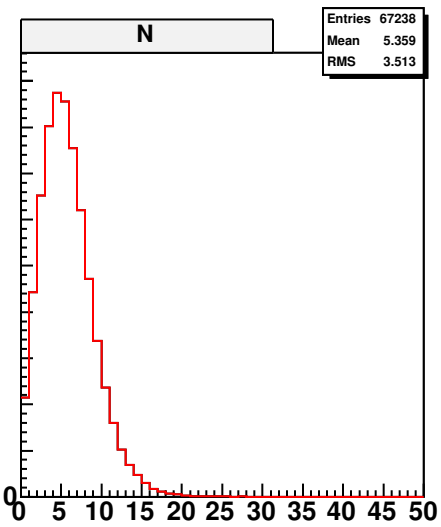

X vs Z

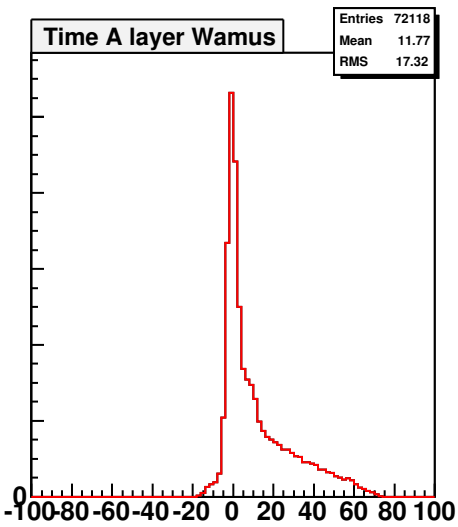

Y vs X

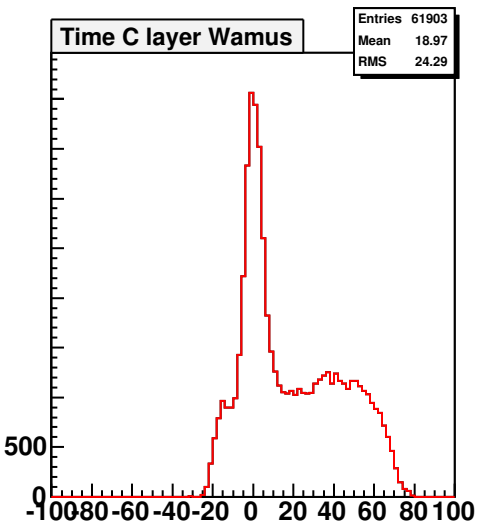

DDIST
Entries 610362
Mean 0.4375
RMS 0.1827

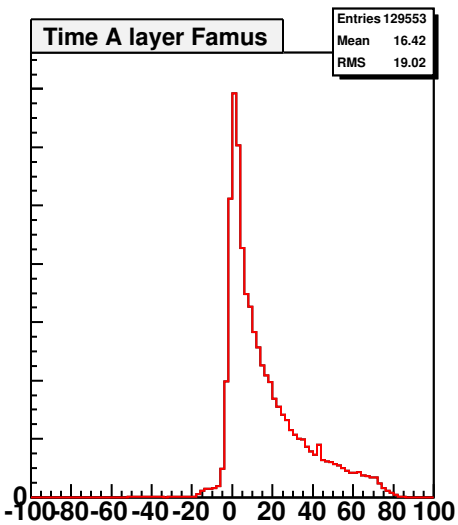

DTIME
Entries 610362
Mean 39.86
RMS 19.22

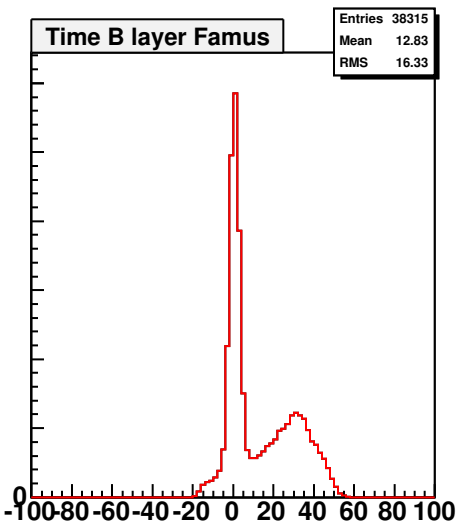
MuonMDT (All)

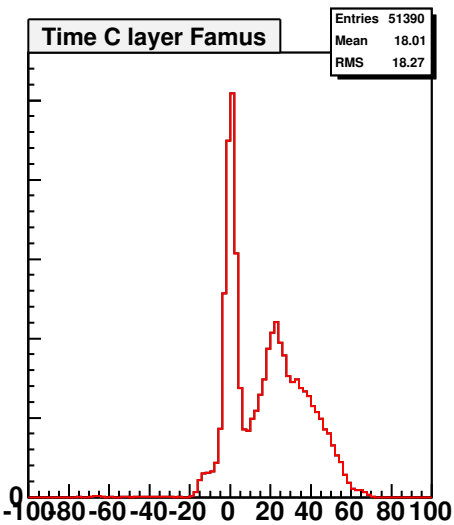

N
Entries 67238
Mean 5.359
RMS 3.513

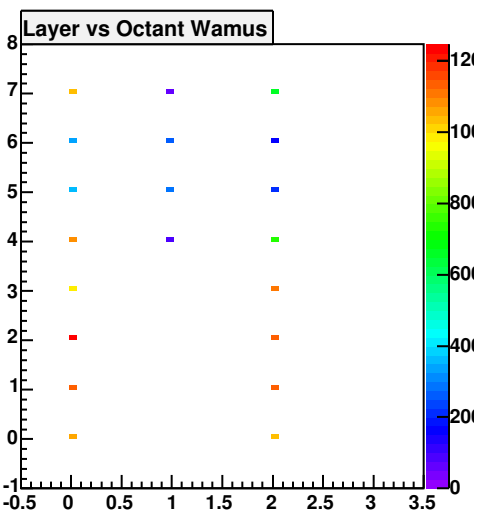

Time A layer Wamus
Entries 72118
Mean 11.77
RMS 17.32

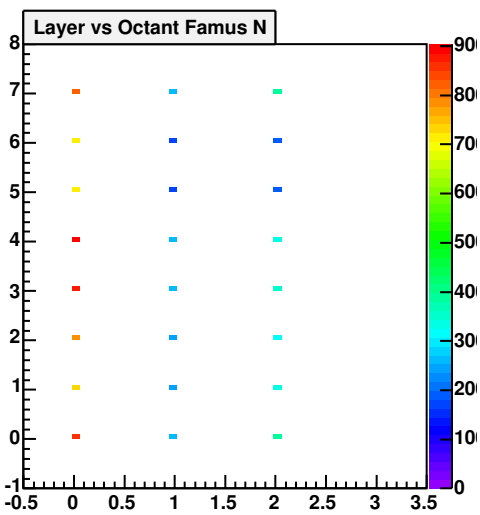

Time C layer Wamus
Entries 61903
Mean 18.97
RMS 24.29

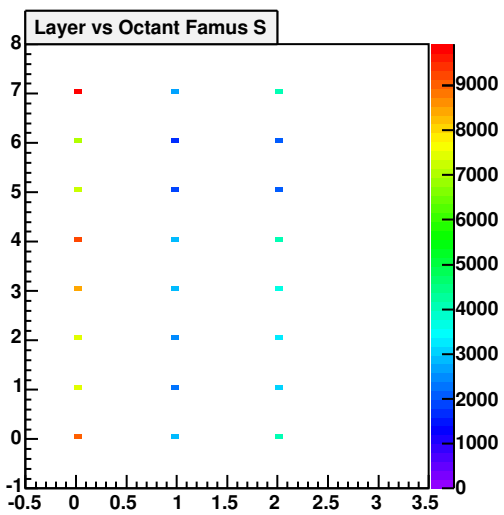

Time A layer Famus
Entries 129553
Mean 16.42
RMS 19.02


Time B layer Famus
Entries 38315
Mean 12.83
RMS 16.33

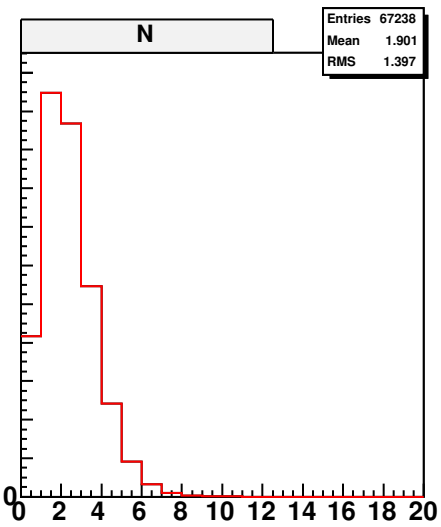

Time C layer Famus
Entries 51390
Mean 18.01
RMS 18.27

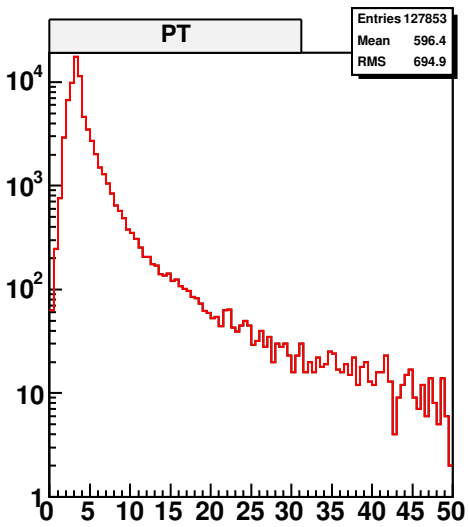

Layer vs Octant Wamus

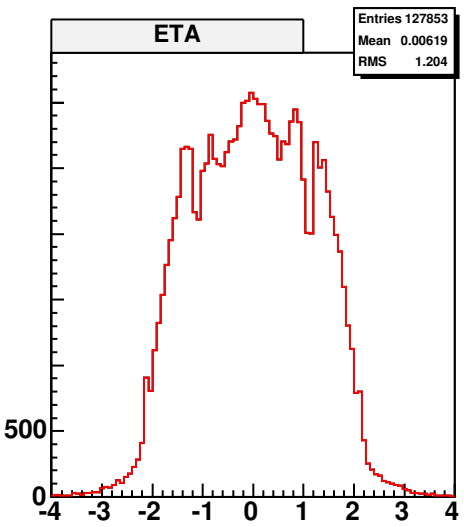

Layer vs Octant Famus N

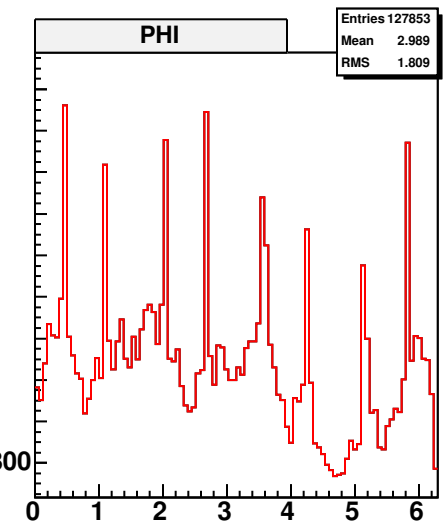

Layer vs Octant Famus S

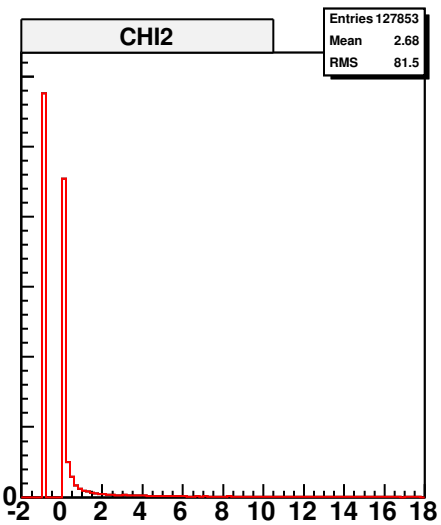
MuonMSC (All)

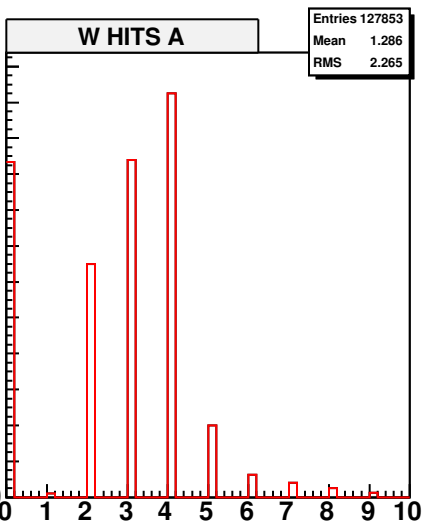


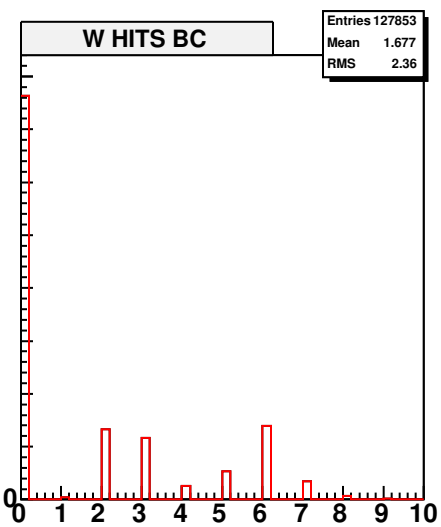


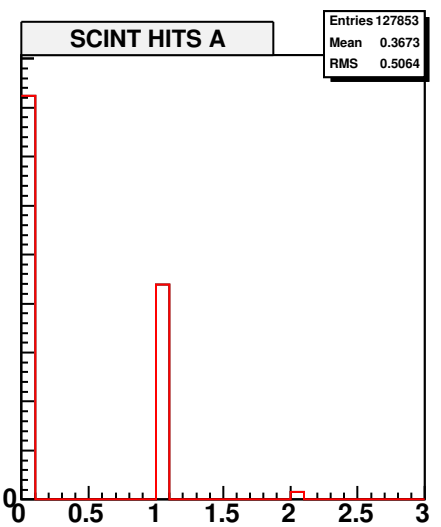


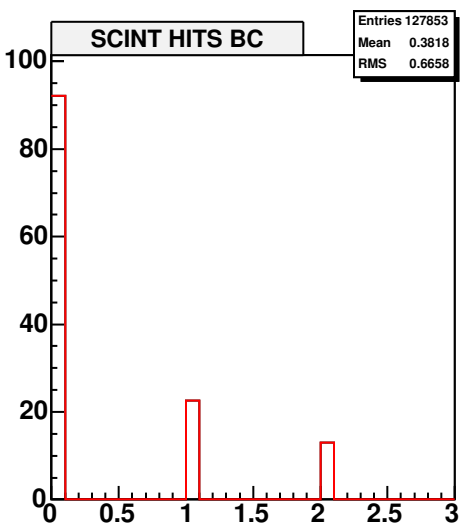




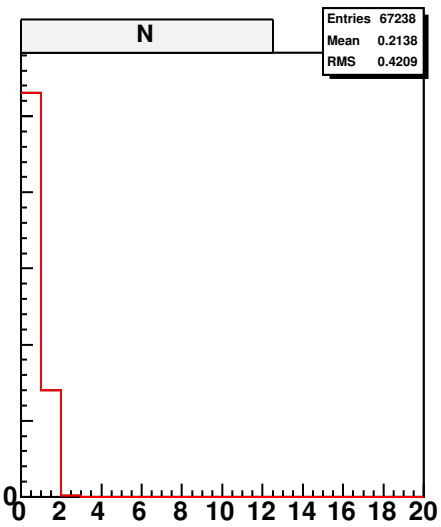


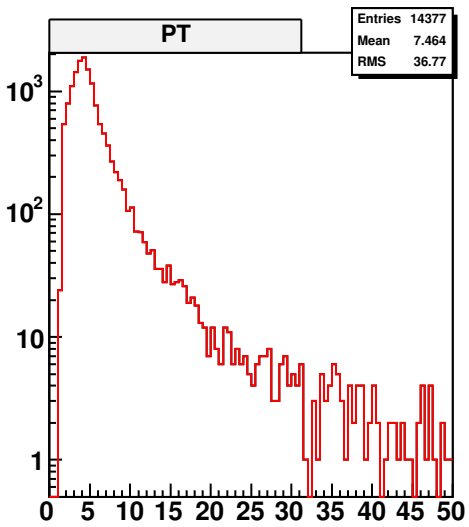


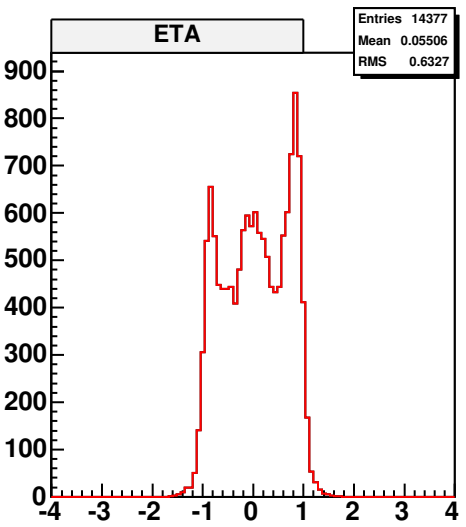


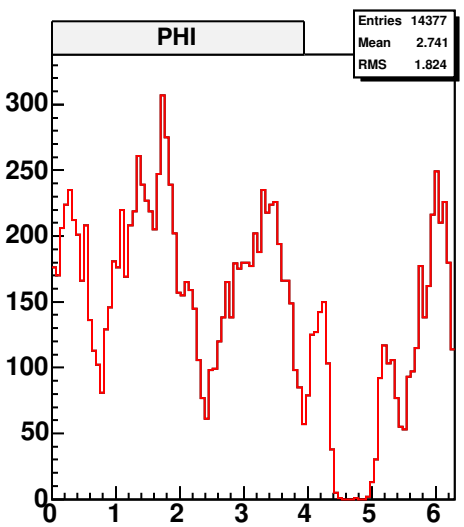


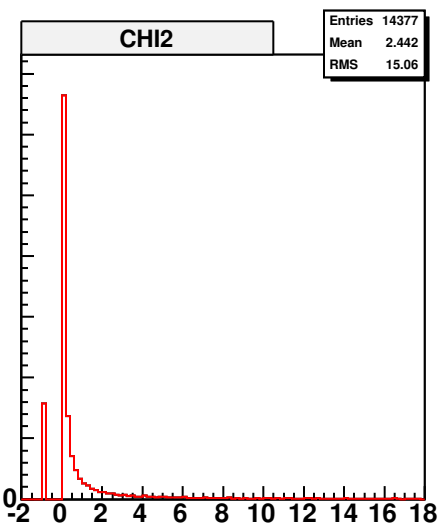
Muon Local Tracks (All)

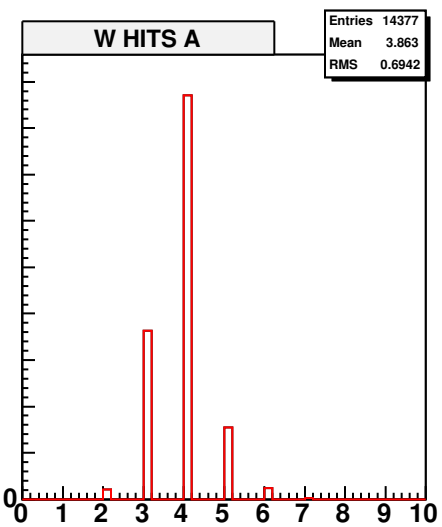


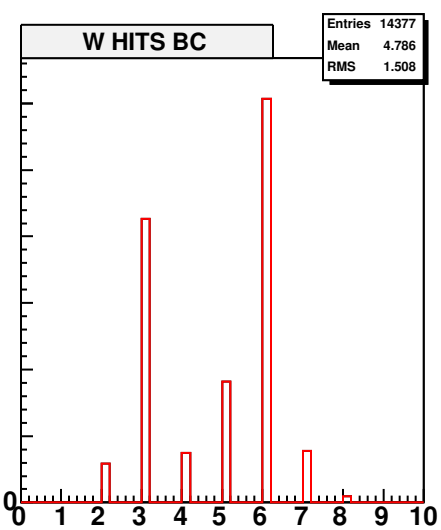


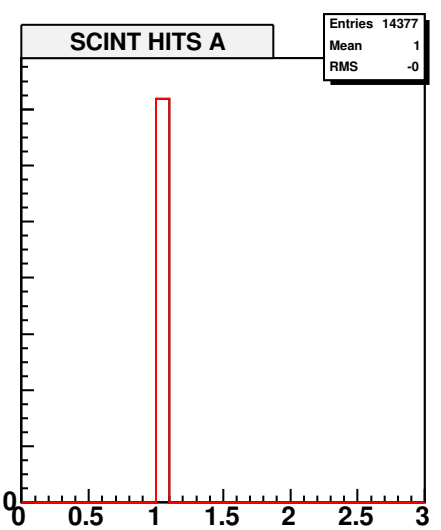


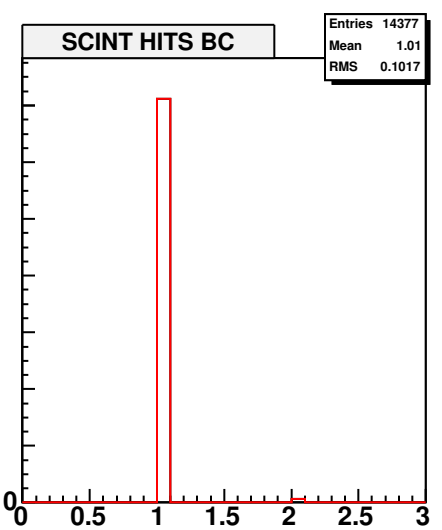




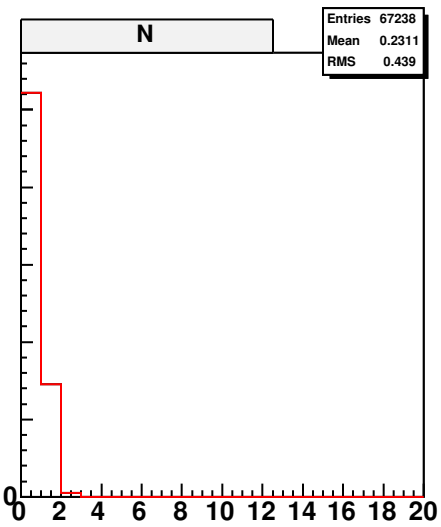


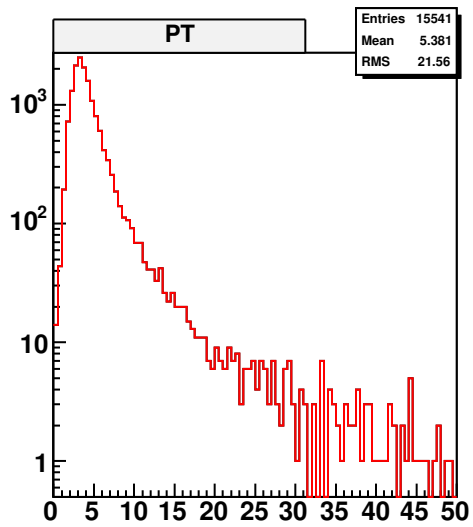


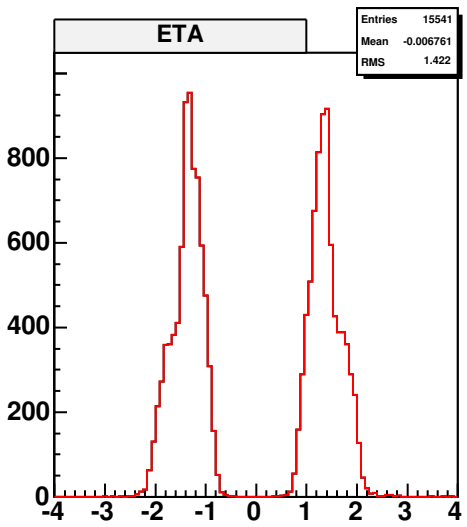


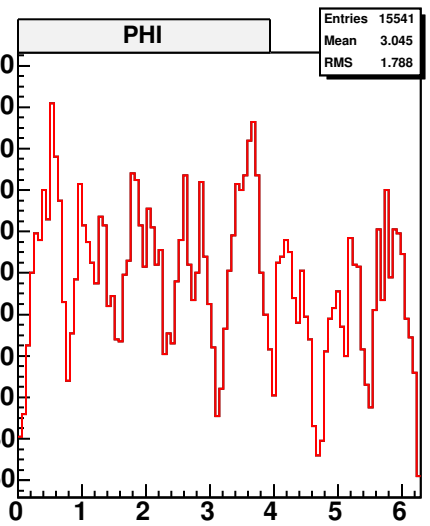


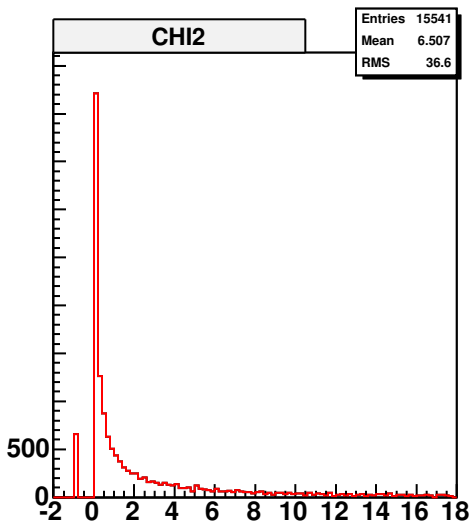
Muon Local Tracks (MediumWamus)

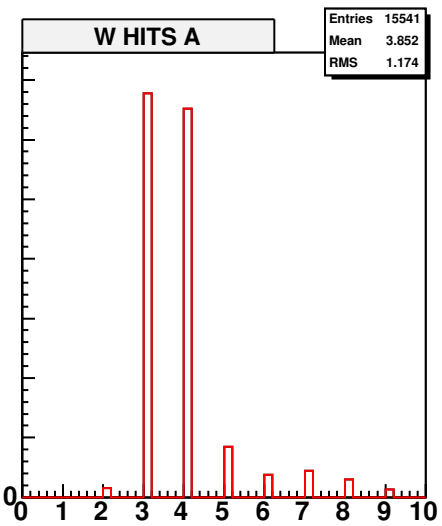


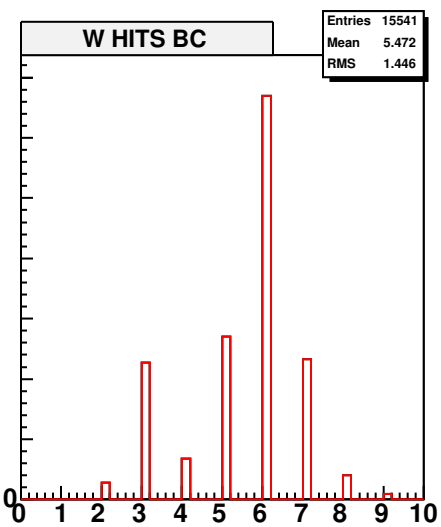


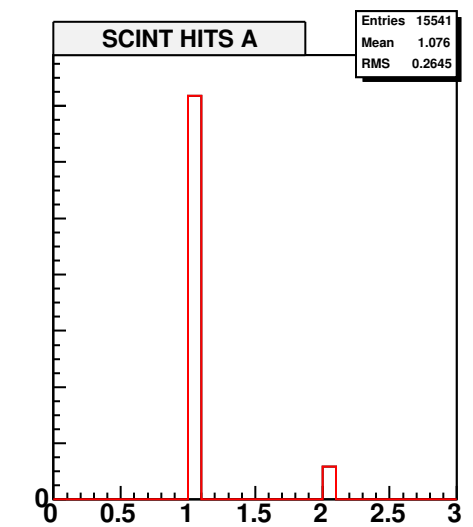


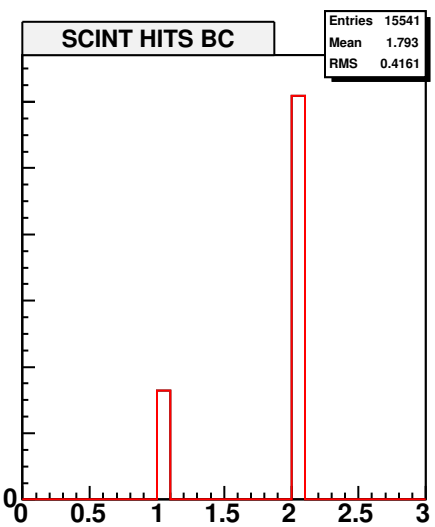




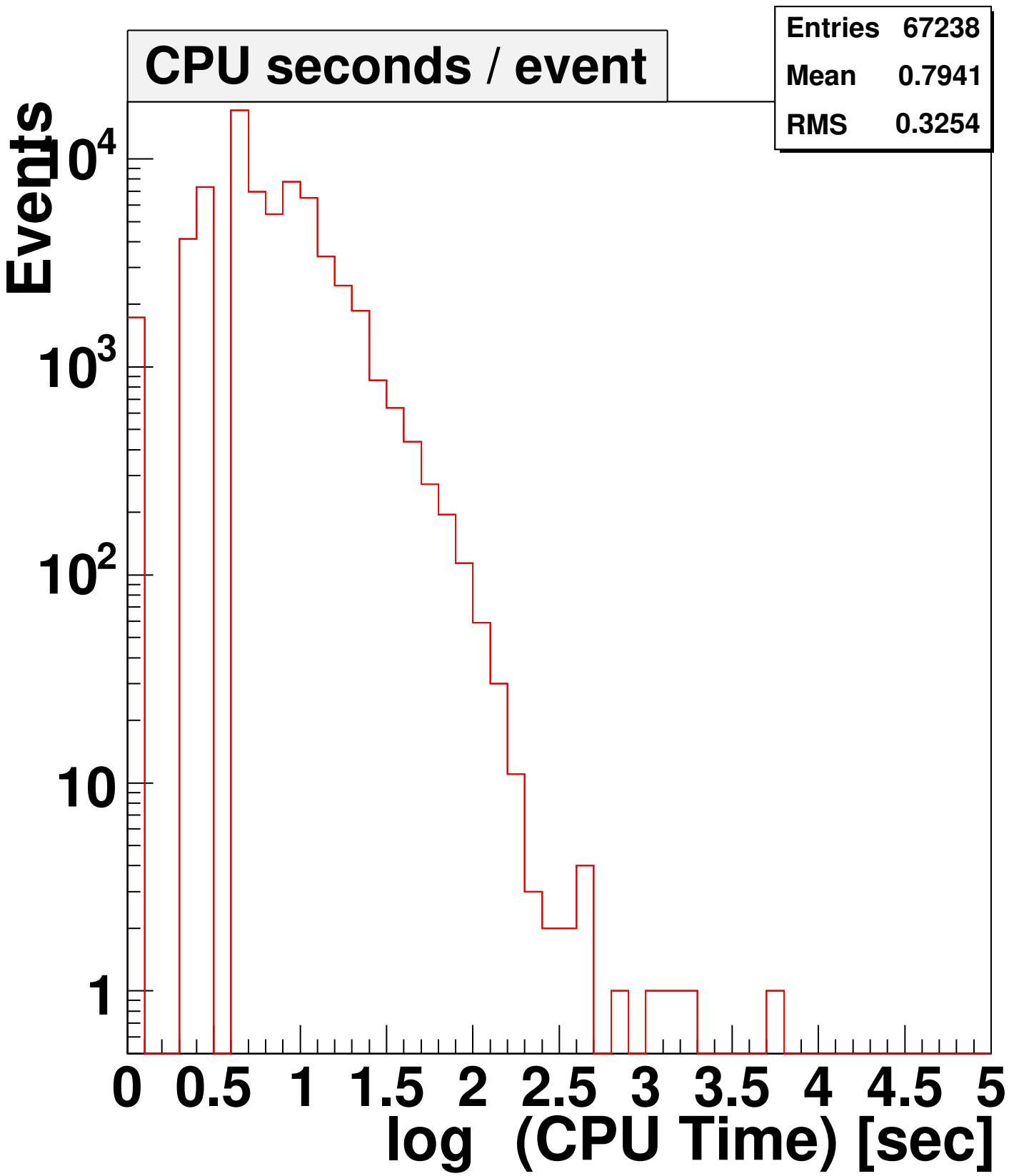








Muon Local Tracks (MediumFamus)



RECO Performance (Timing)