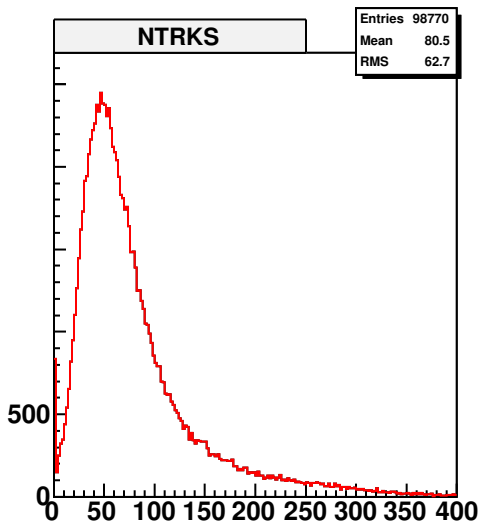
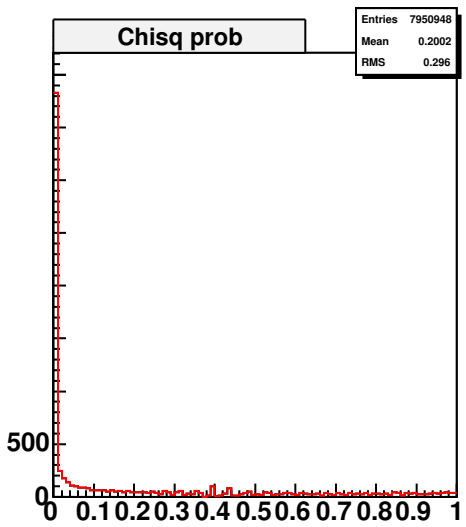
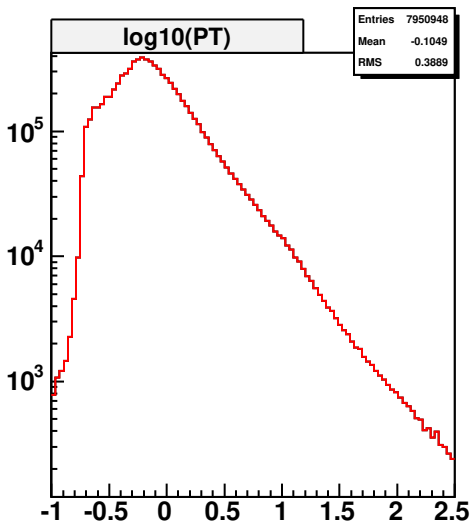
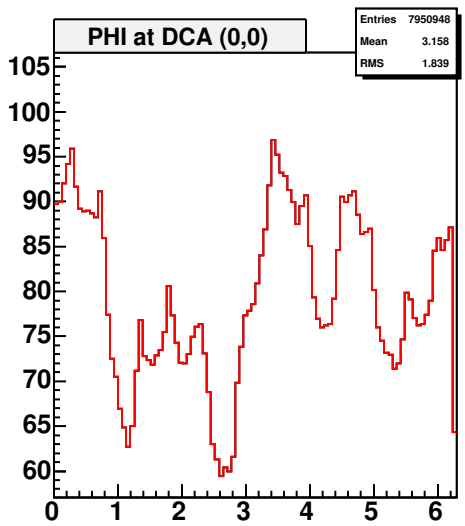
dayset-2004-06-22-194374-2_certification_

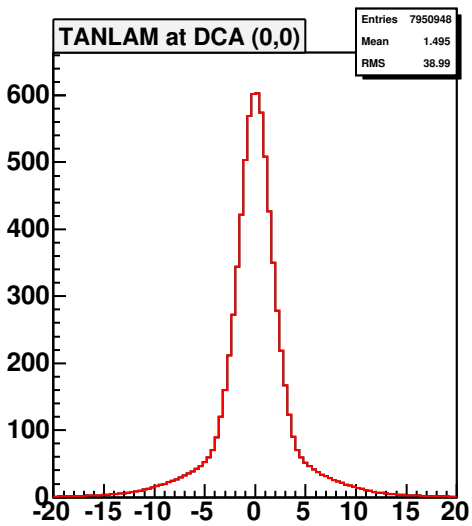
dayset-2004-06-22-194374-2_certification_

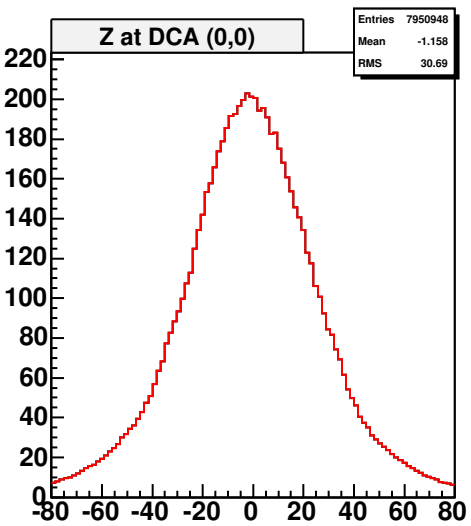

NTRKS
Entries 98770
Mean 80.5
RMS 62.7

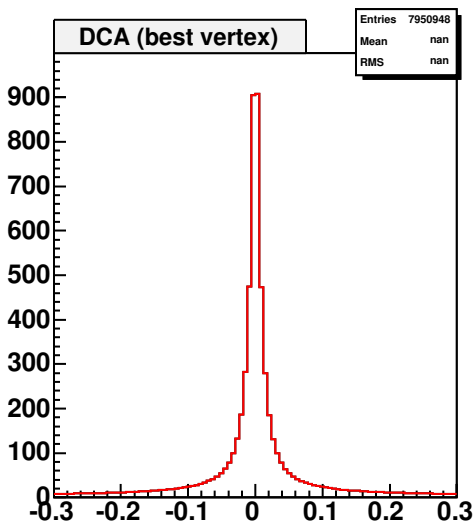

Chisq prob
Entries 7950948
Mean 0.2002
RMS 0.296

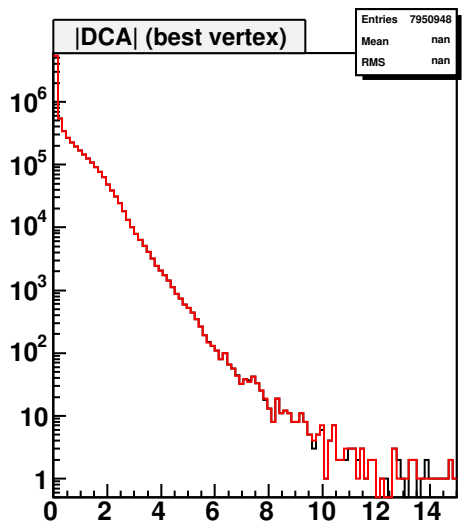

log10(PT)
Entries 7950948
Mean -0.1049
RMS 0.3889

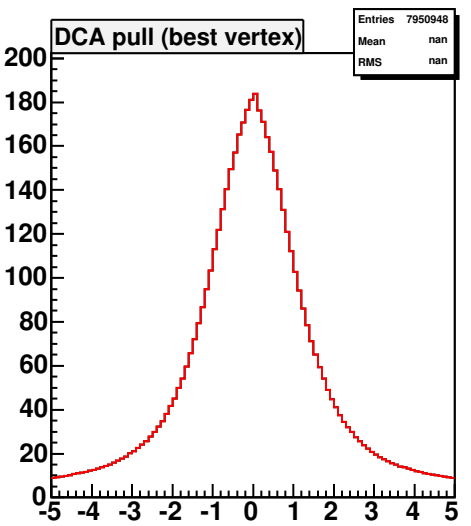

PHI at DCA (0,0)
Entries 7950948
Mean 3.158
RMS 1.839


TANLAM at DCA (0,0)
Entries 7950948
Mean 1.495
RMS 38.99

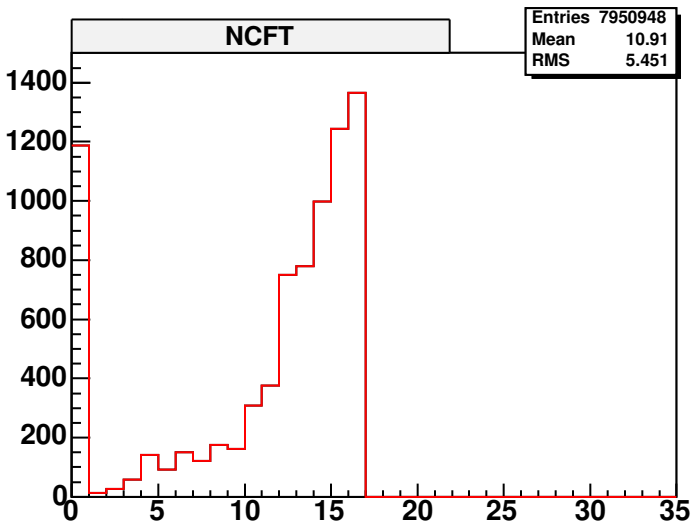

Z at DCA (0,0)
Entries 7950948
Mean -1.158
RMS 30.69

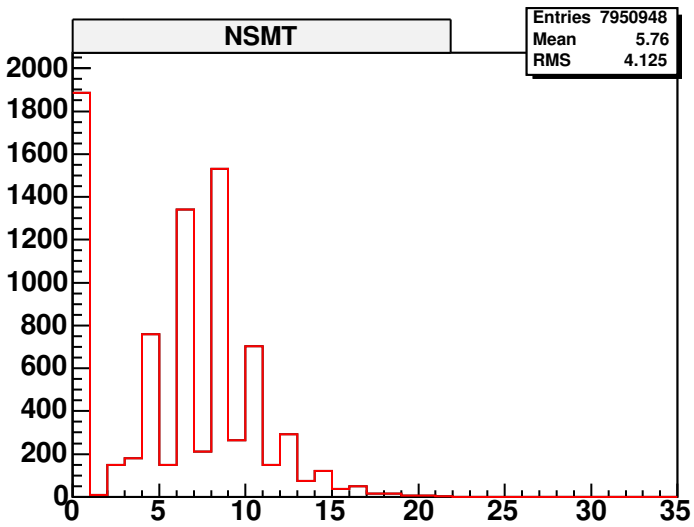

DCA (best vertex)
Entries 7950948
Mean nan
RMS nan

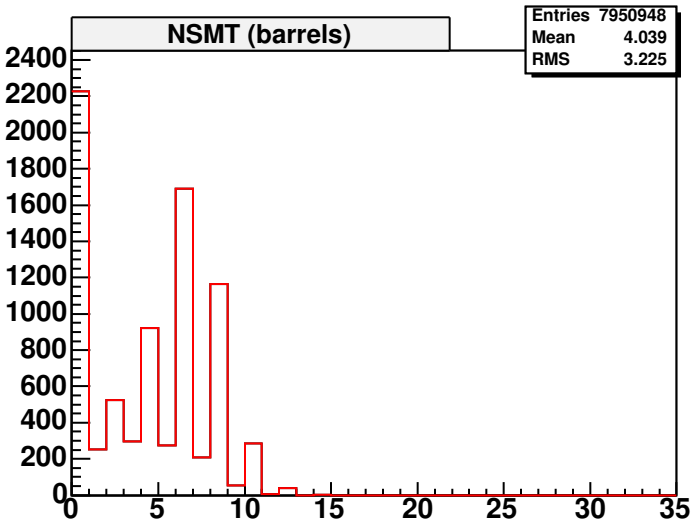

|DCA| (best vertex)
Entries 7950948
Mean nan
RMS nan

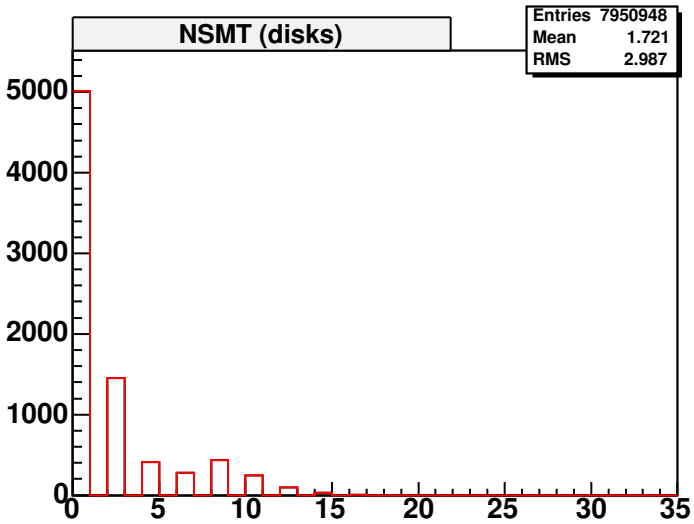

DCA pull (best vertex)
Entries 7950948
Mean nan
RMS nan

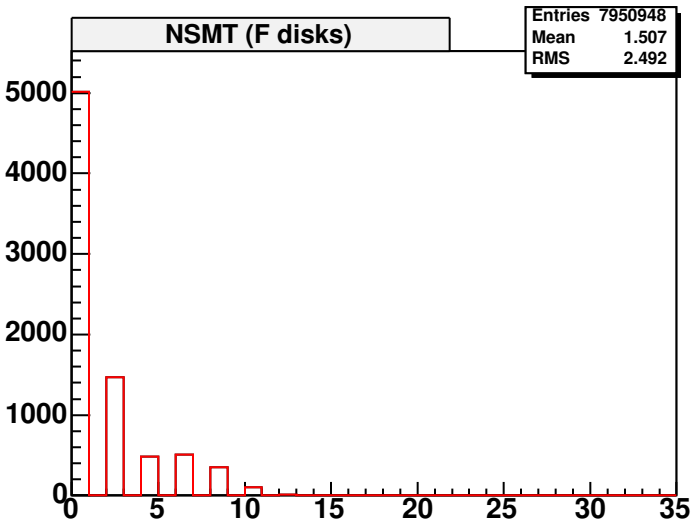
Tracks (All)

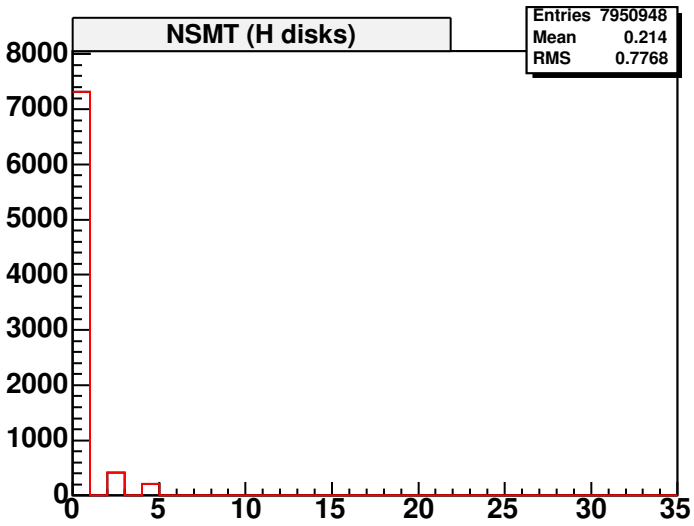




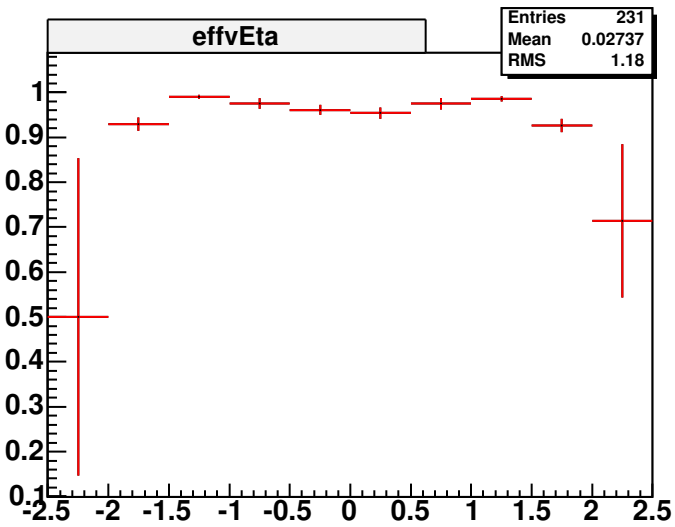


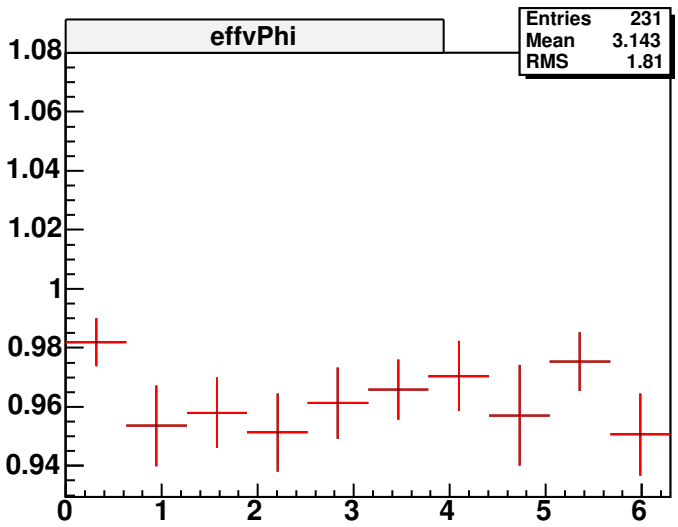


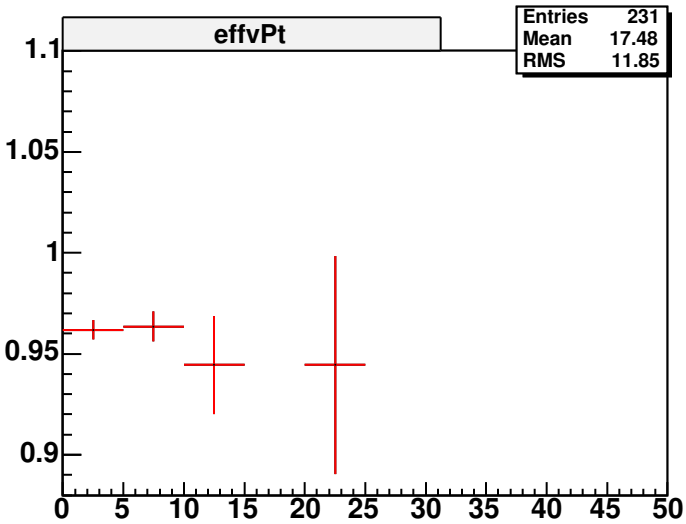


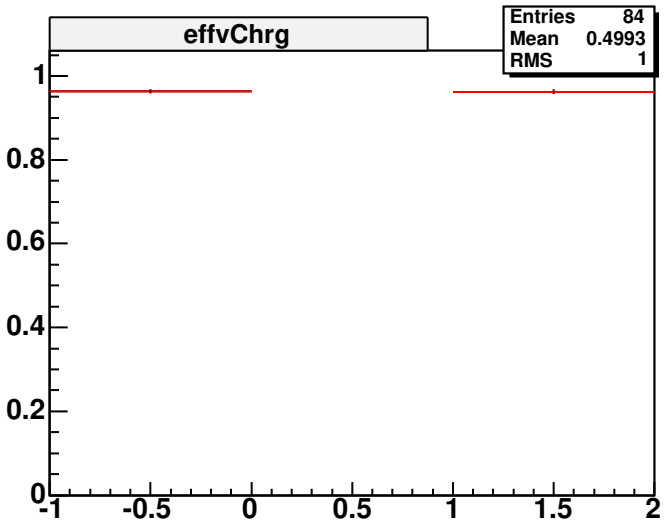


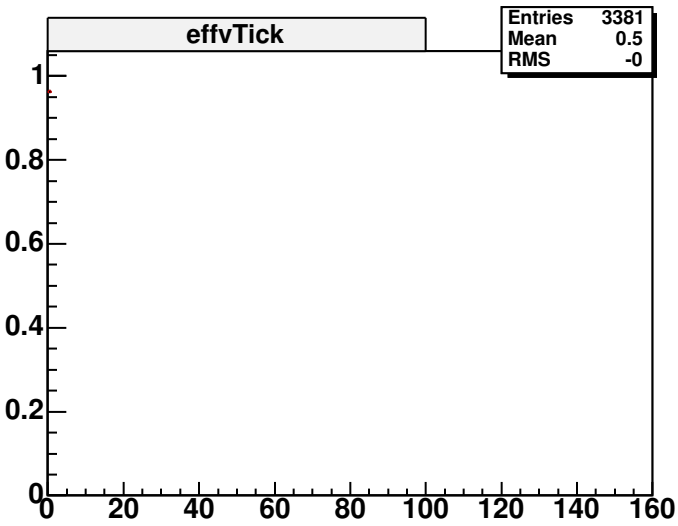
Track Hits (All)

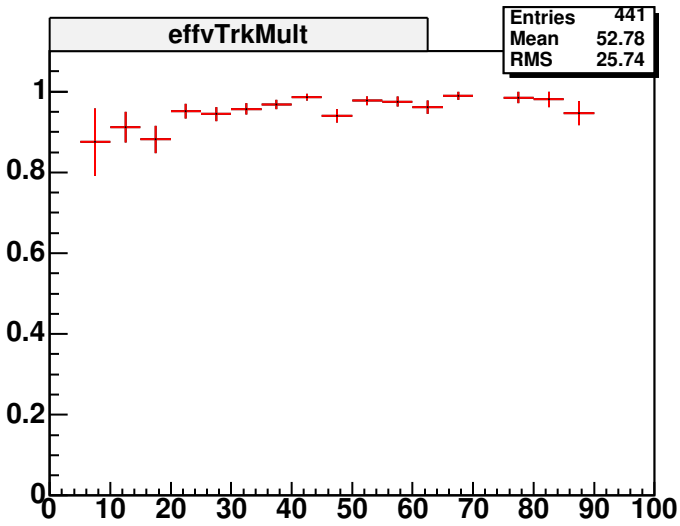




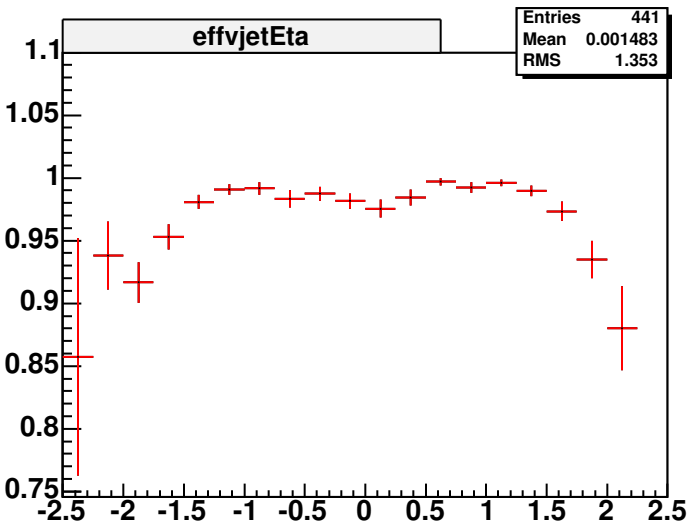


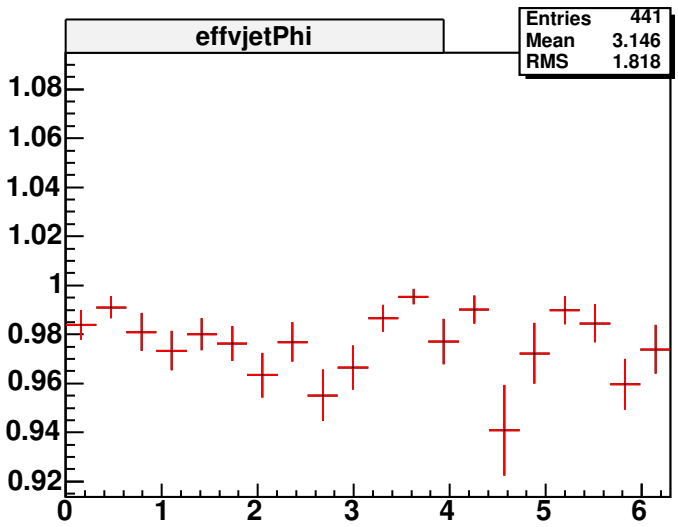


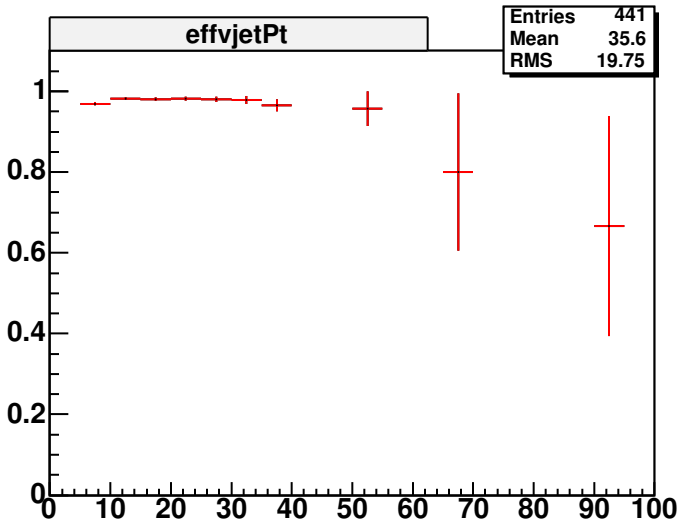


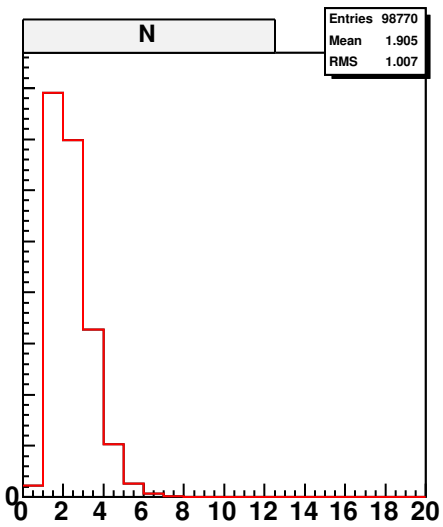


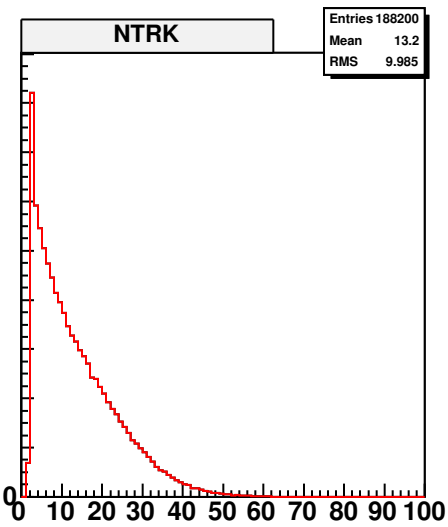
Tracking (Efficiency-Isolated)

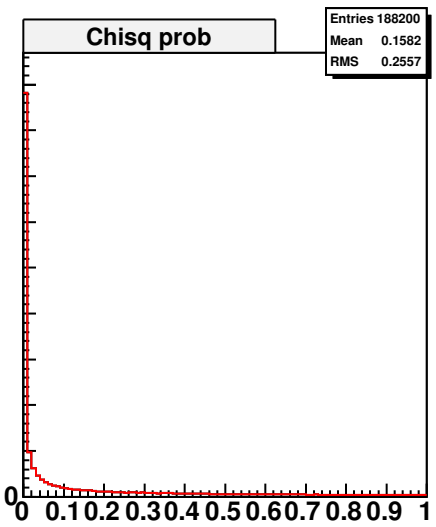

effvjetEta
Entries 441
Mean 0.001483
RMS 1.353
1.1
1.05
1
0.95
0.9
0.85
0.8
0.75
-2.5 -2 -1.5 -1 -0.5 0 0.5 1 1.5 2 2.5

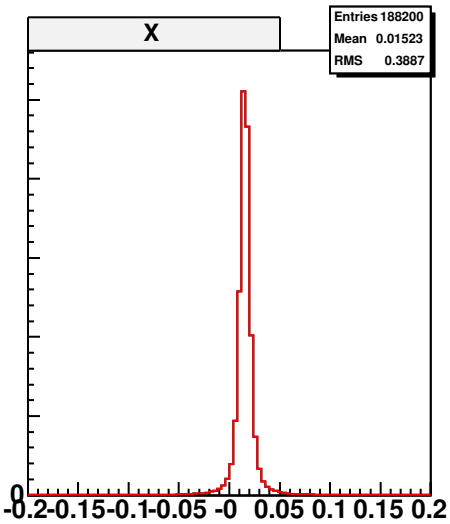

effvjetPhi
Entries 441
Mean 3.146
RMS 1.818
1.08
1.06
1.04
1.02
1
0.98
0.96
0.94
0.92
0 1 2 3 4 5 6

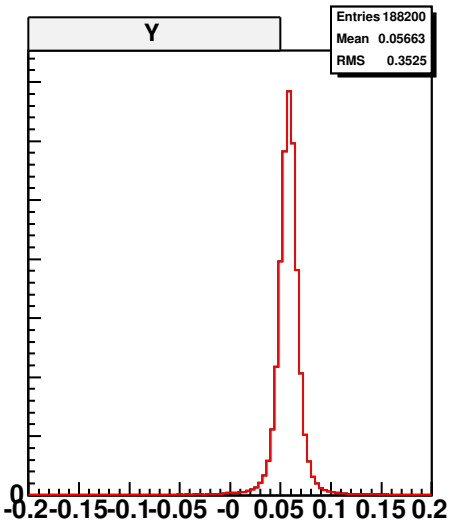

effvjetPt
Entries 441
Mean 35.6
RMS 19.75
1
0.8
0.6
0.4
0.2
0
0 10 20 30 40 50 60 70 80 90 100

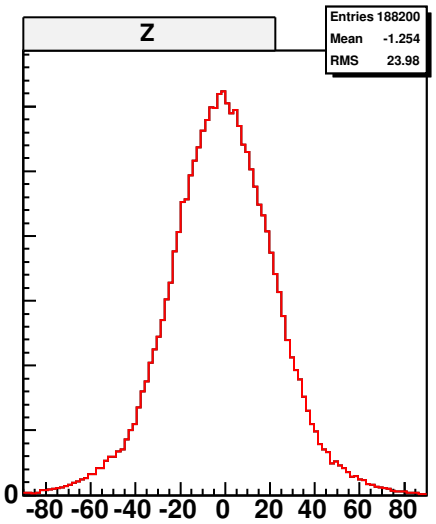


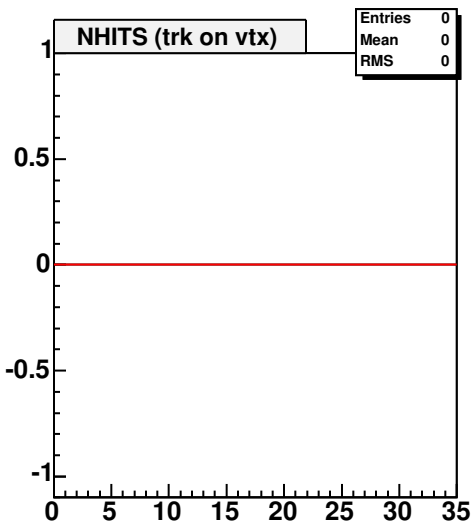


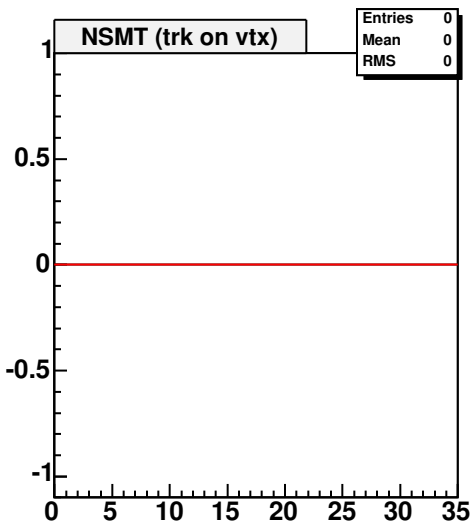


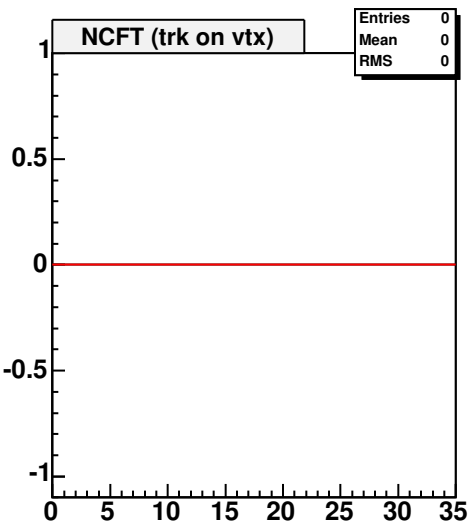




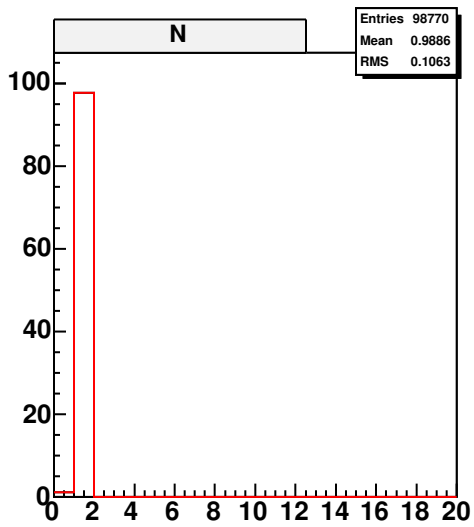


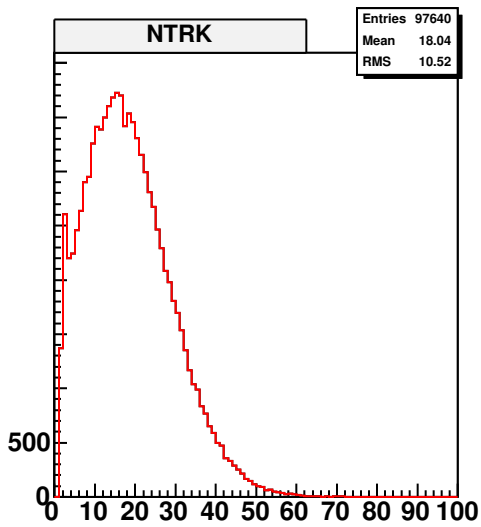


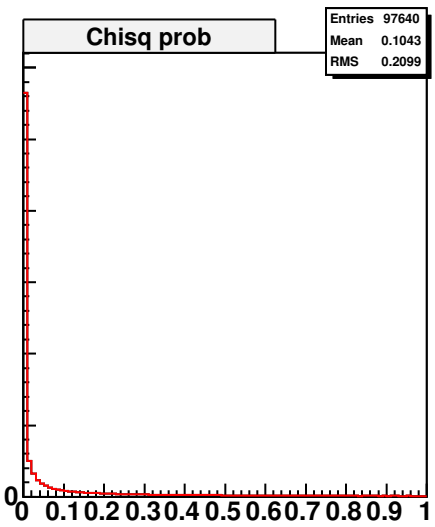


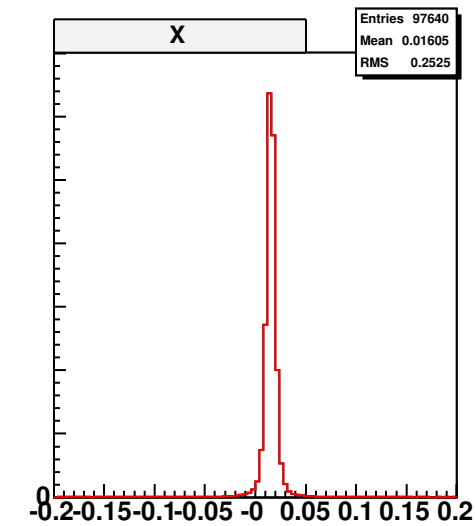


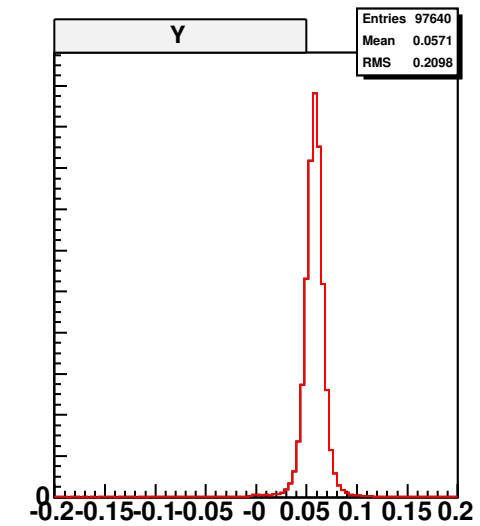
Vertices (Primary - all candidates)

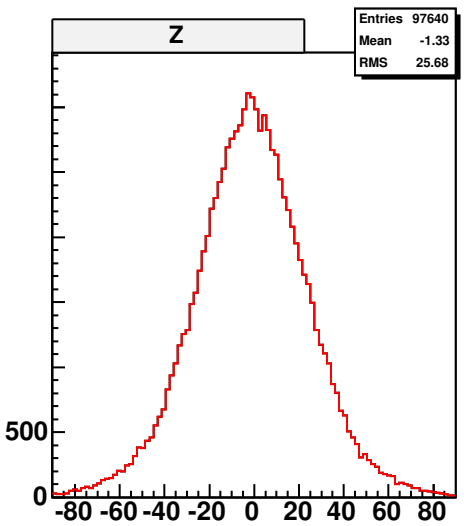


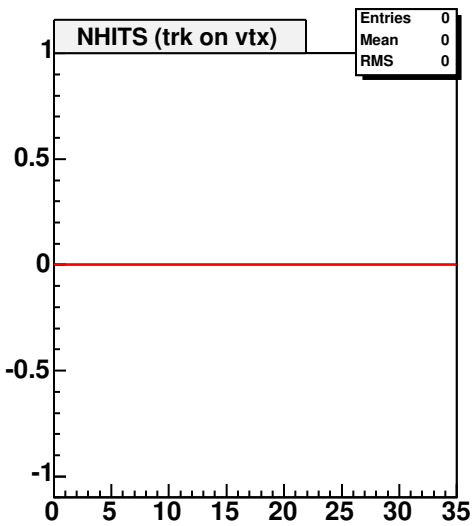


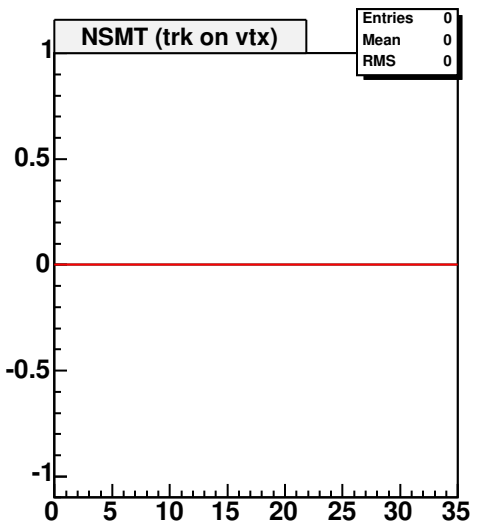


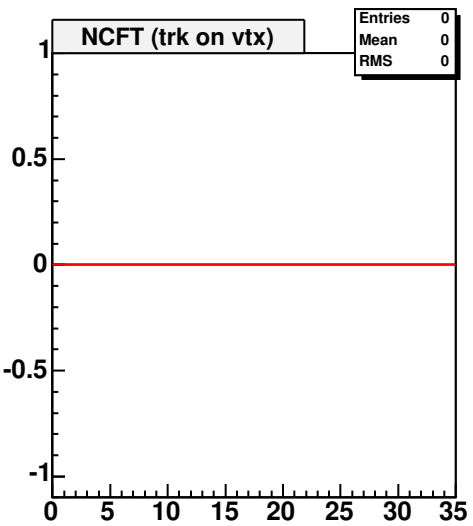




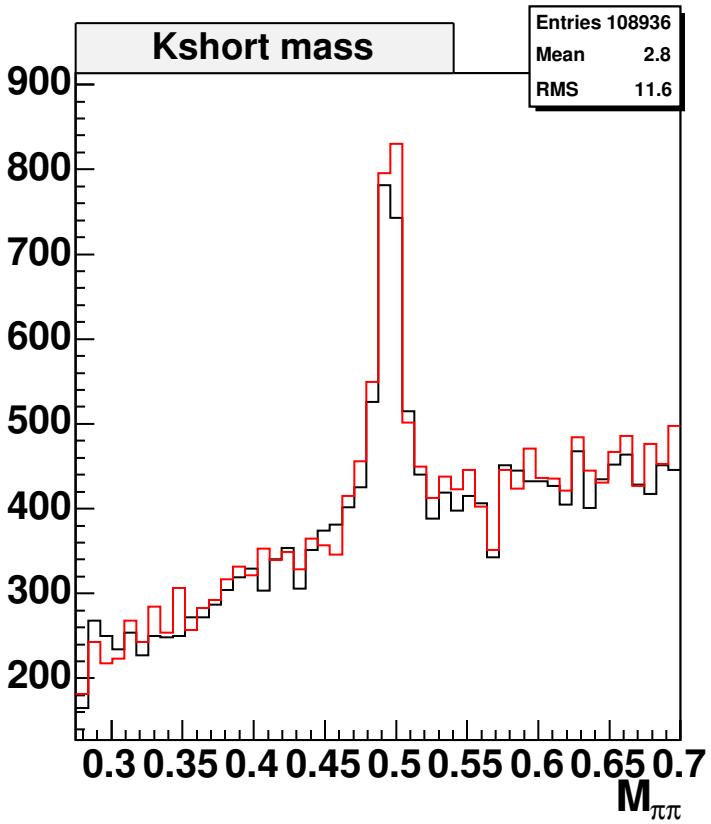


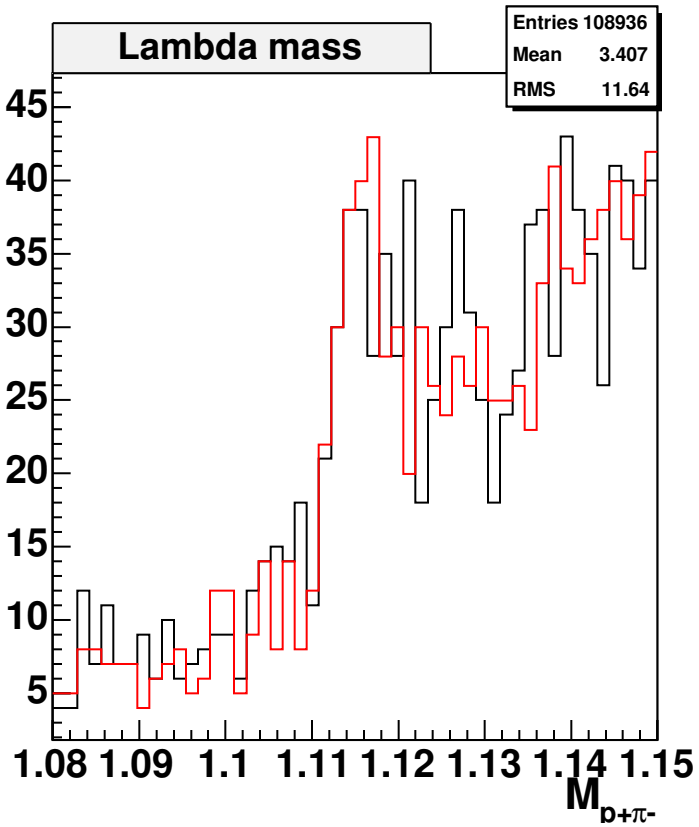


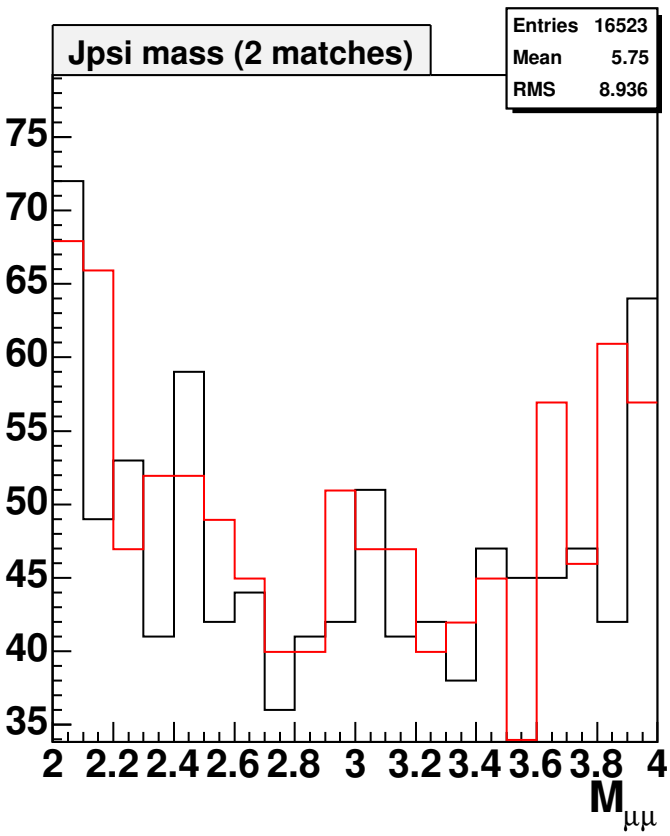


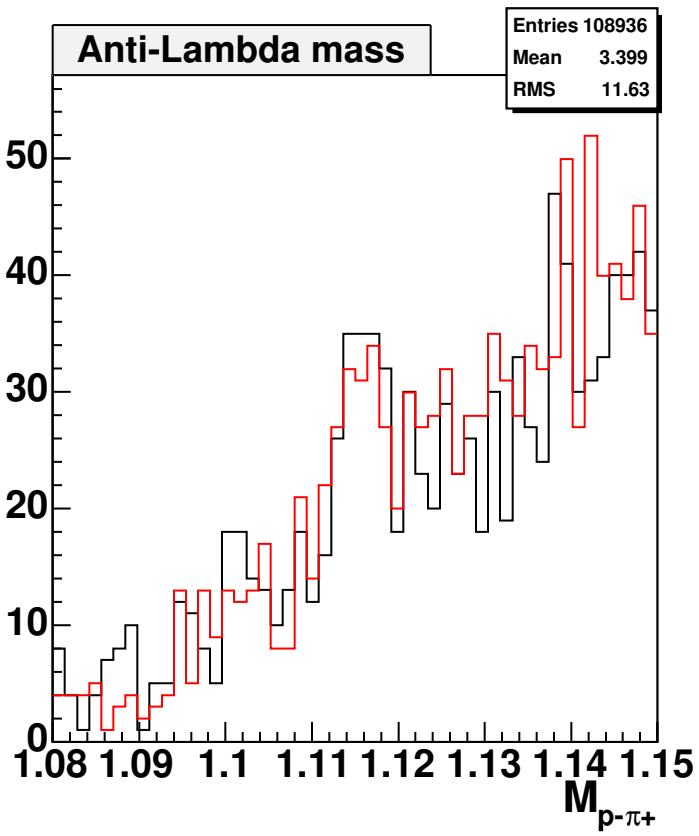


Vertices (Primary - best)

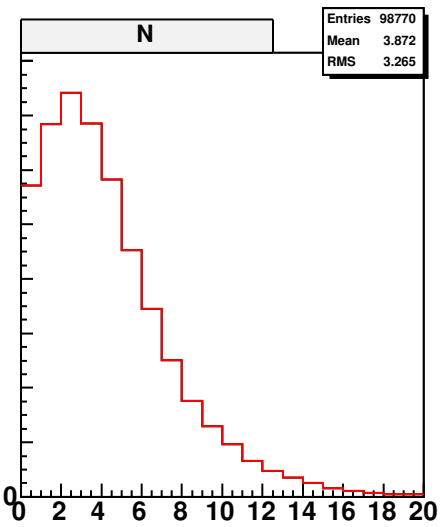

Kshort mass
Entries 108936
Mean 2.8
RMS 11.6
900
800
700
600
500
400
300
200
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

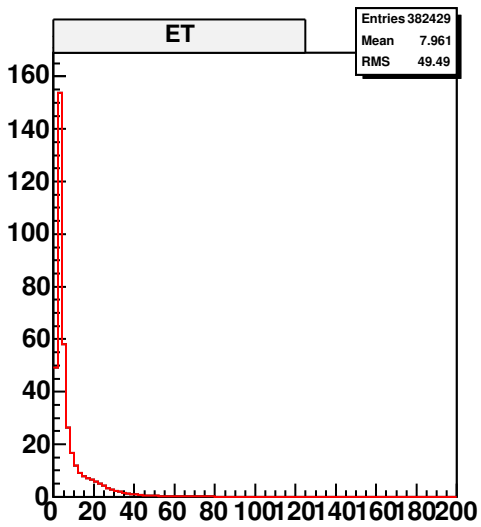

Lambda mass
Entries 108936
Mean 3.407
RMS 11.64
45
40
35
30
25
20
15
10
5
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

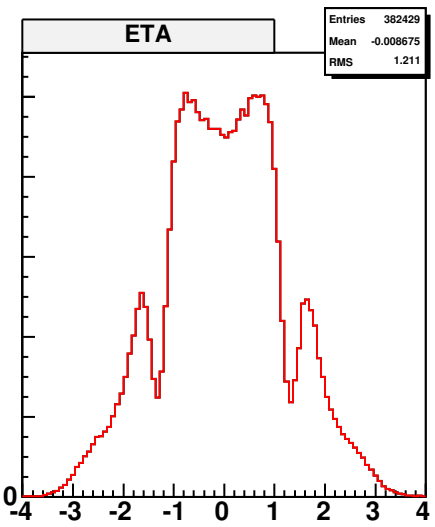

Jpsi mass (2 matches)
Entries 16523
Mean 5.75
RMS 8.936
75
70
65
60
55
50
45
40
35
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

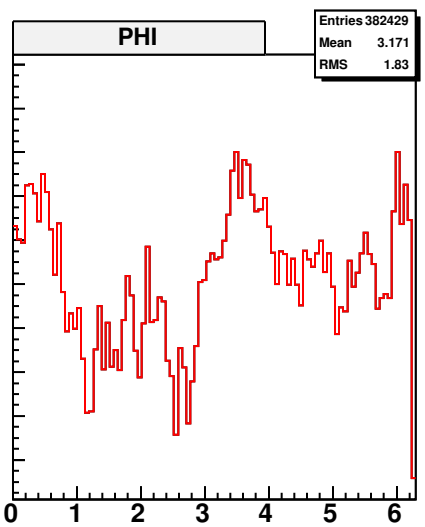

Anti-Lambda mass
Entries 108936
Mean 3.399
RMS 11.63
50
40
30
20
10
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

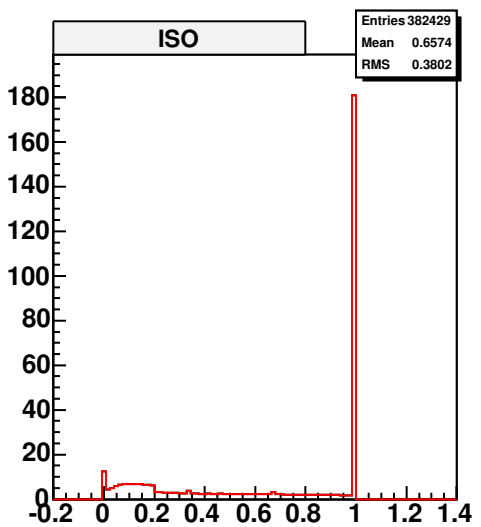
V0 (All)

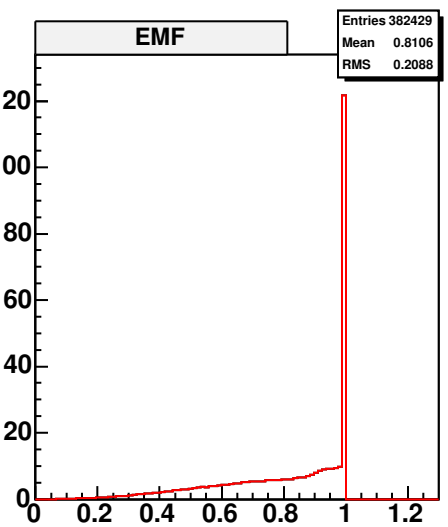


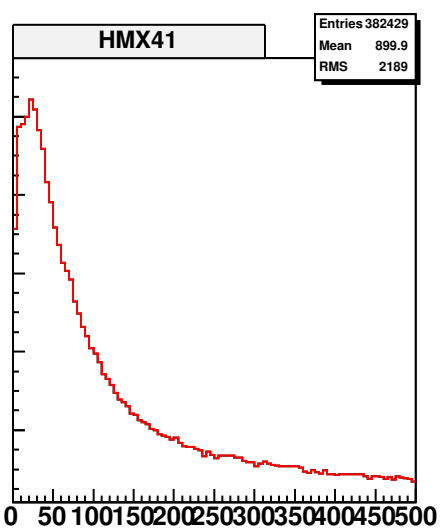


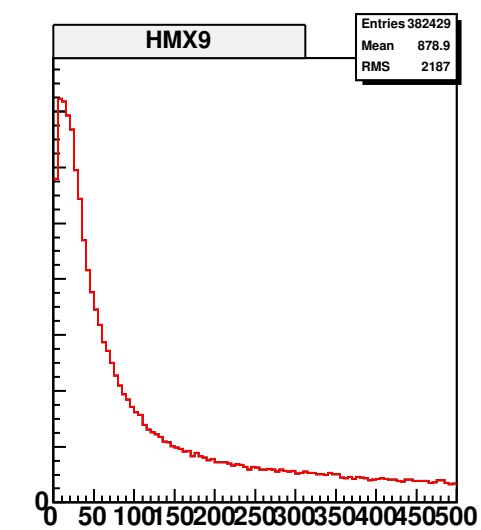


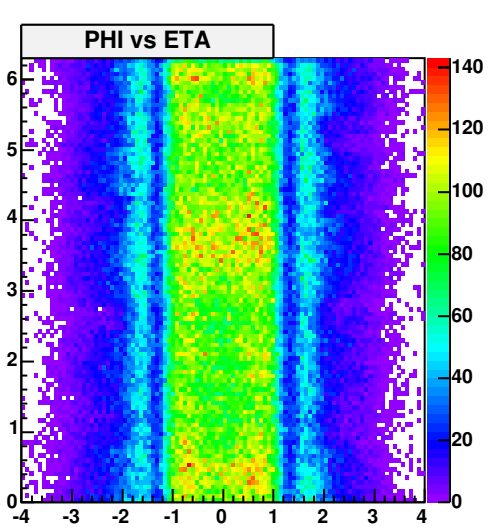




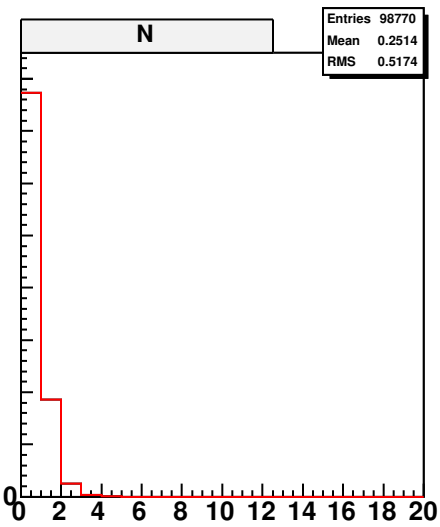


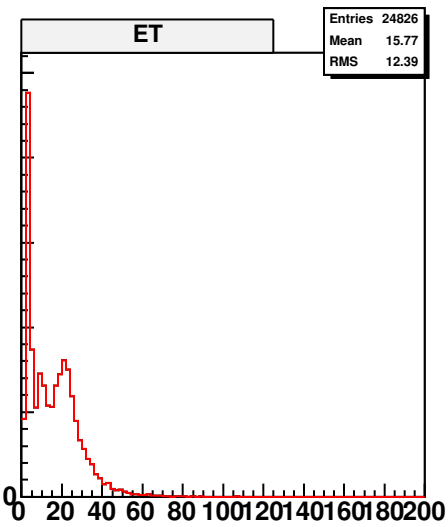


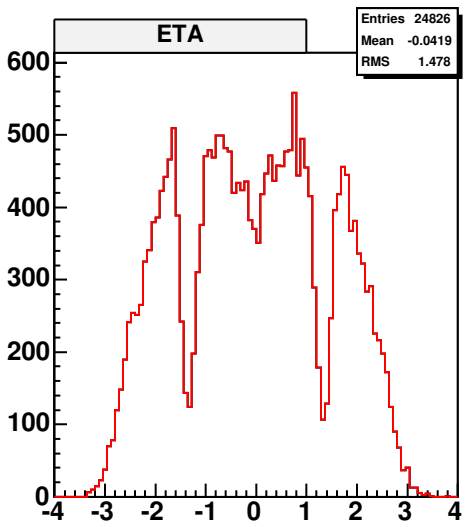


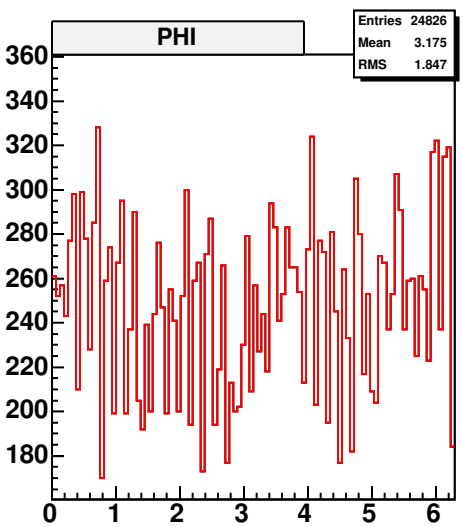


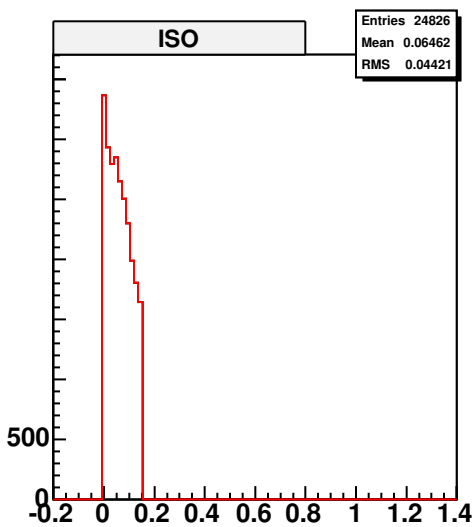
Electrons (SCONE All)

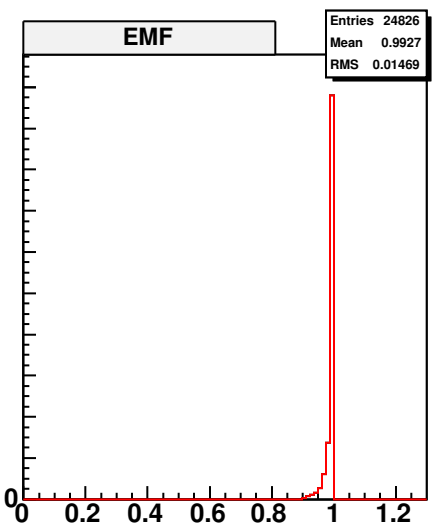


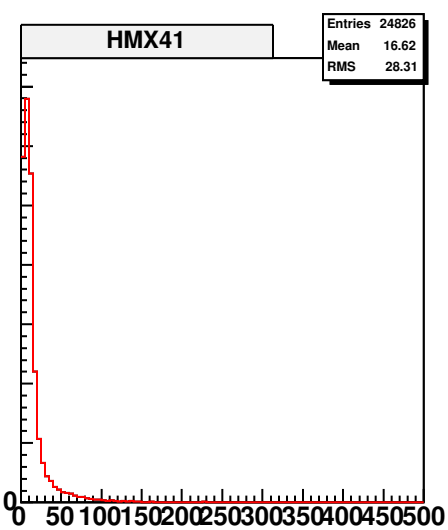


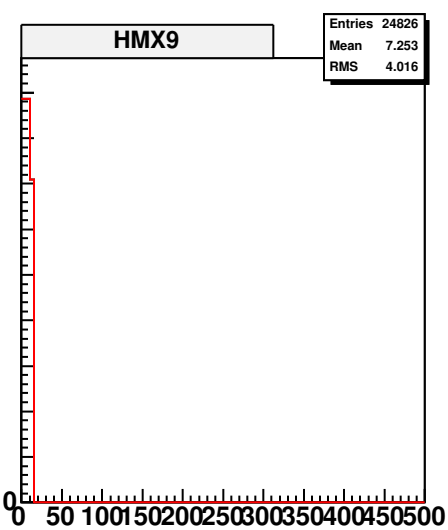


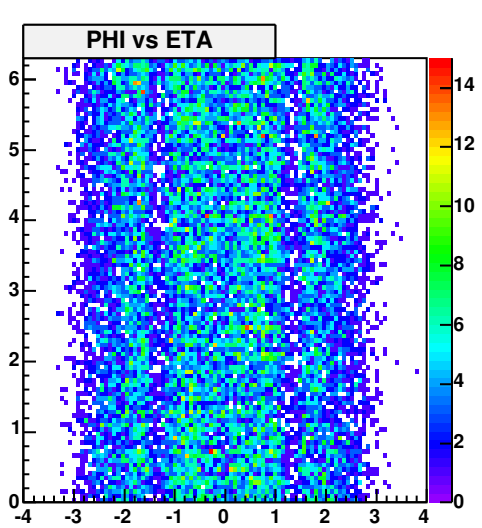




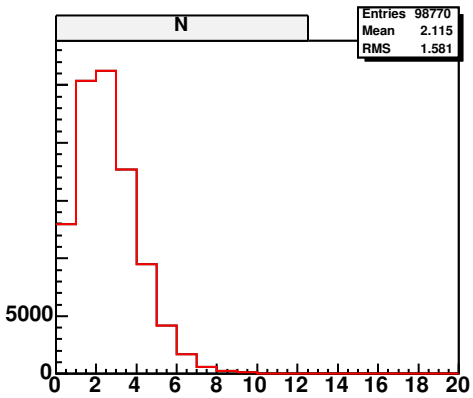


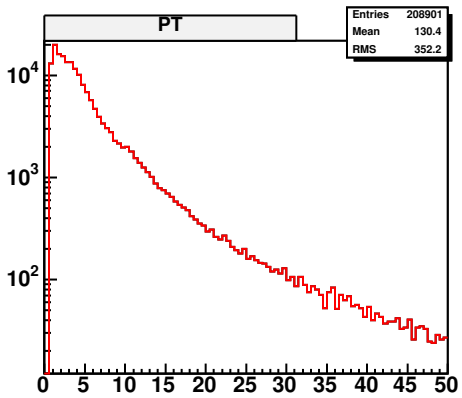


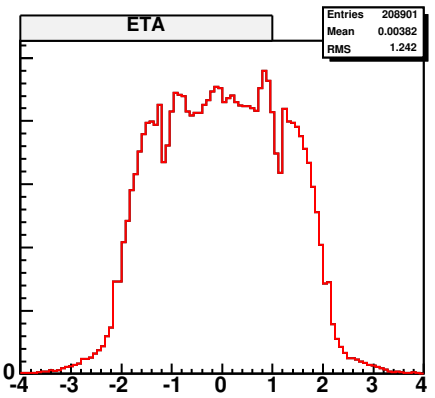


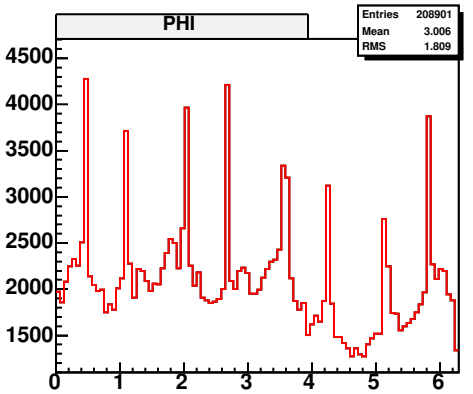


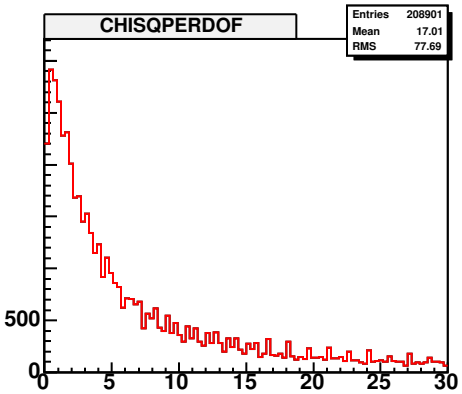
Electrons (SCONE Tight)

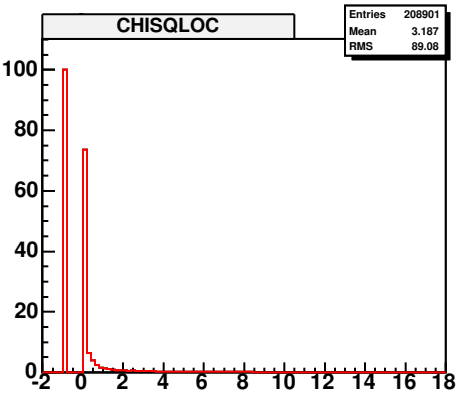

N
Entries 98770
Mean 2.115
RMS 1.581

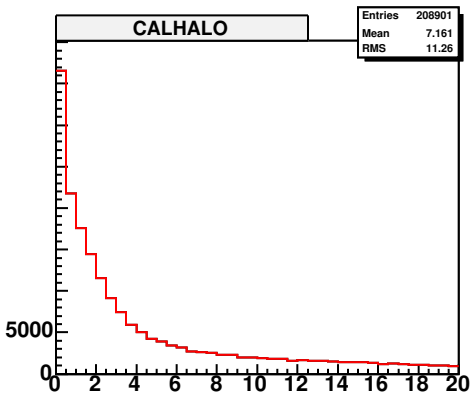

PT
Entries 208901
Mean 130.4
RMS 352.2

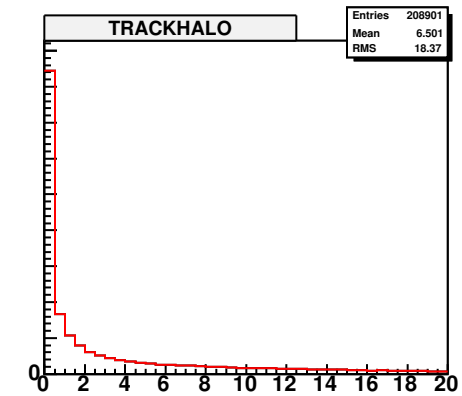

ETA
Entries 208901
Mean 0.00382
RMS 1.242

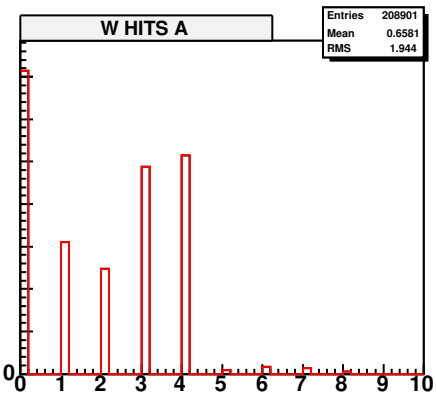

PHI
Entries 208901
Mean 3.006
RMS 1.809

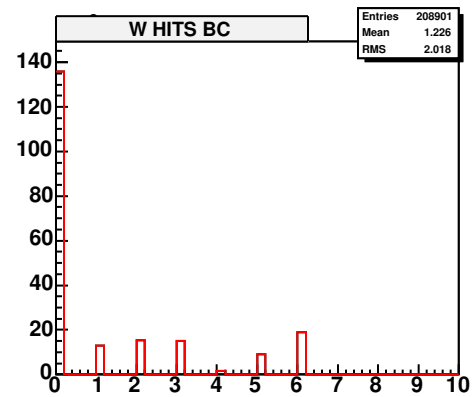

CHISQPERDOF
Entries 208901
Mean 17.01
RMS 77.69

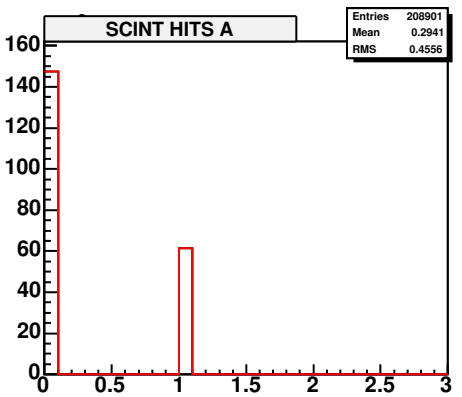

CHISQLOC
Entries 208901
Mean 3.187
RMS 89.08

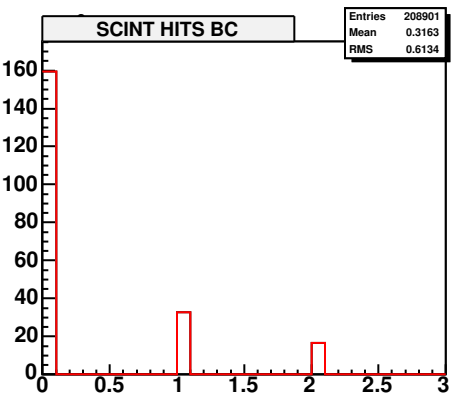

CALHALO
Entries 208901
Mean 7.161
RMS 11.26


TRACKHALO
Entries 208901
Mean 6.501
RMS 18.37

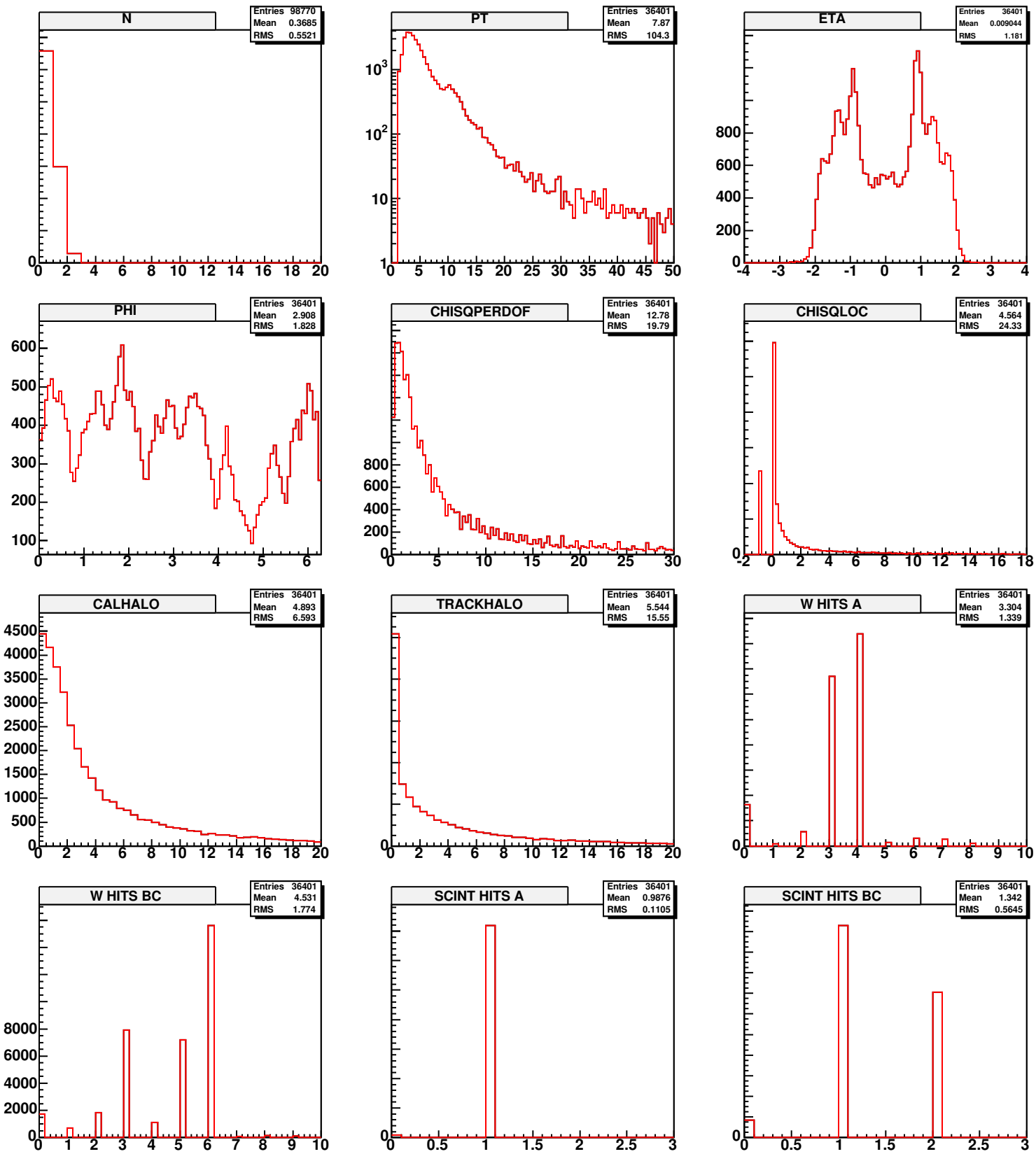

W HITS A
Entries 208901
Mean 0.6581
RMS 1.944


W HITS BC
Entries 208901
Mean 1.226
RMS 2.018

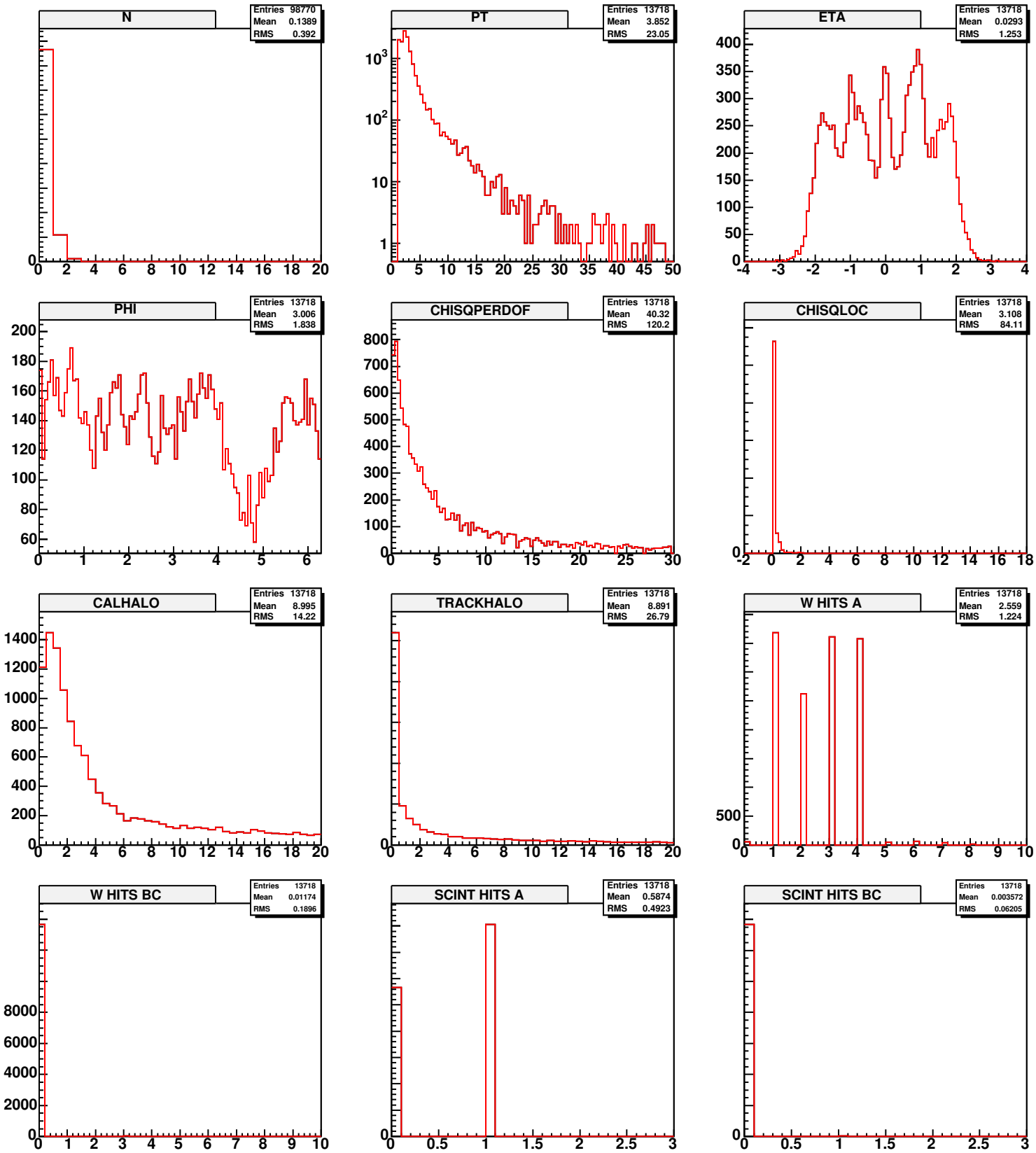

SCINT HITS A
Entries 208901
Mean 0.2941
RMS 0.4556


SCINT HITS BC
Entries 208901
Mean 0.3163
RMS 0.6134

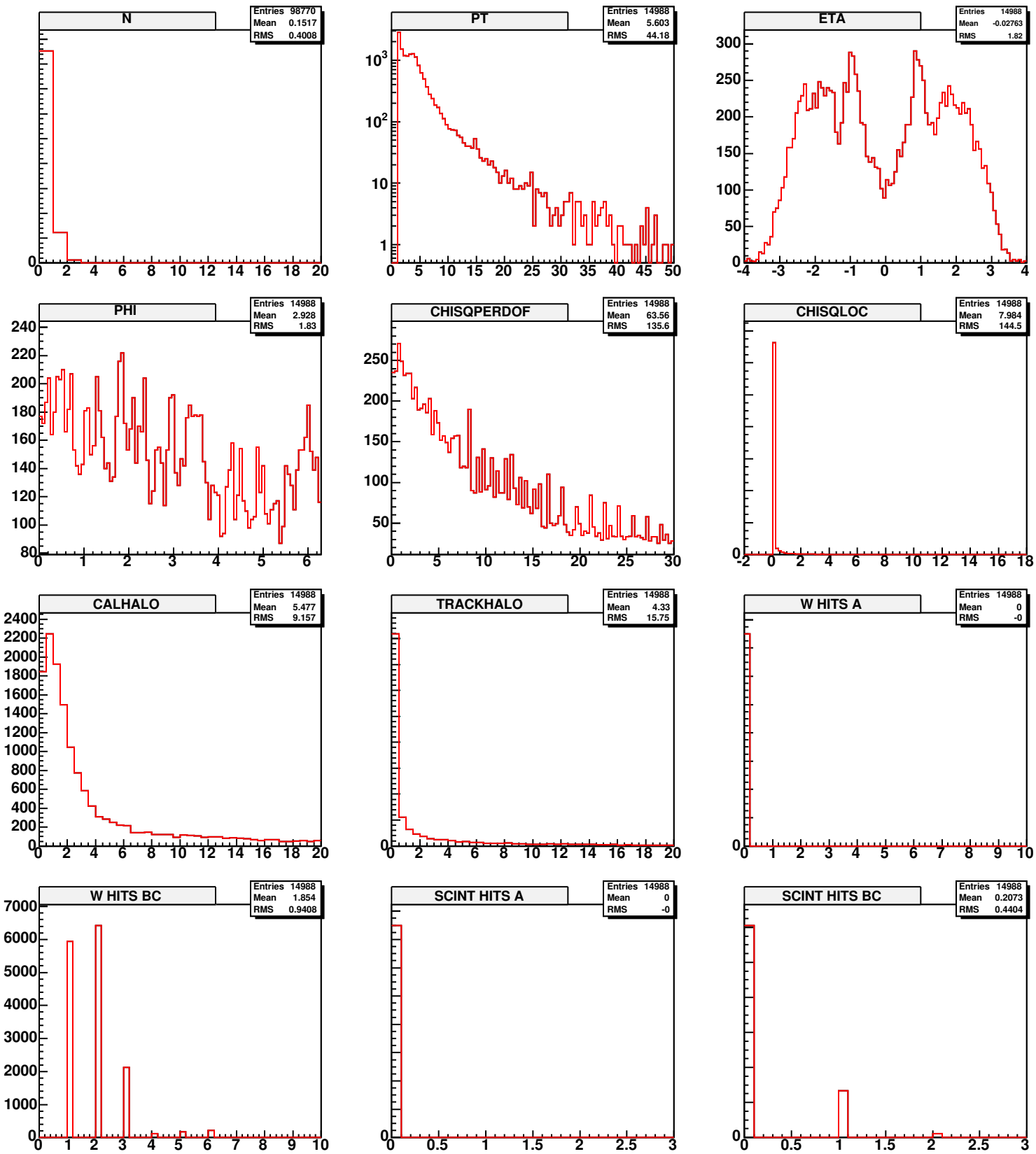
Muons (All)



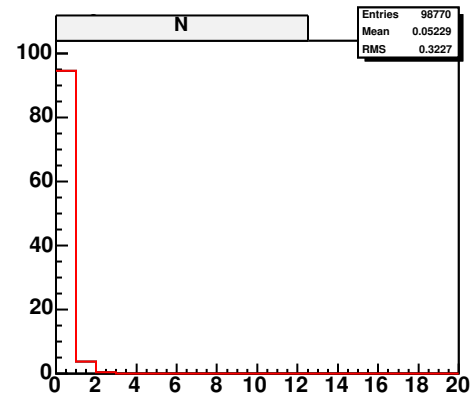
Muons (Matched)

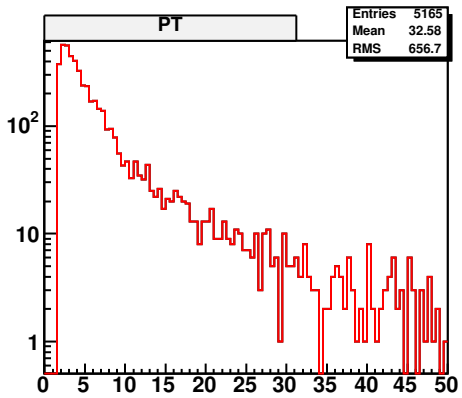

N
Entries 98770
Mean 0.1389
RMS 0.392
PT
Entries 13718
Mean 3.852
RMS 23.05
ETA
Entries 13718
Mean 0.0293
RMS 1.253
PHI
Entries 13718
Mean 3.006
RMS 1.838
CHISQPERDOF
Entries 13718
Mean 40.32
RMS 120.2
CHISQLOC
Entries 13718
Mean 3.108
RMS 84.11
CALHALO
Entries 13718
Mean 8.995
RMS 14.22
TRACKHALO
Entries 13718
Mean 8.891
RMS 26.79
W HITS A
Entries 13718
Mean 2.559
RMS 1.224
W HITS BC
Entries 13718
Mean 0.01174
RMS 0.1896
SCINT HITS A
Entries 13718
Mean 0.5874
RMS 0.4923
SCINT HITS BC
Entries 13718
Mean 0.003572
RMS 0.06205

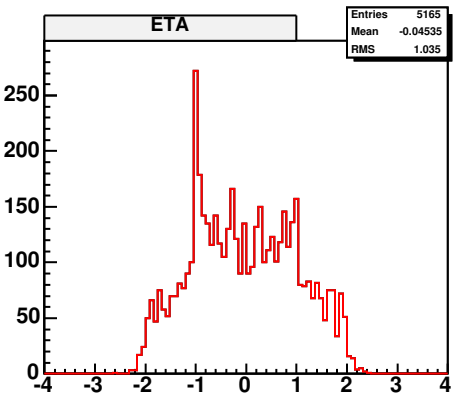
Muons (Astub)

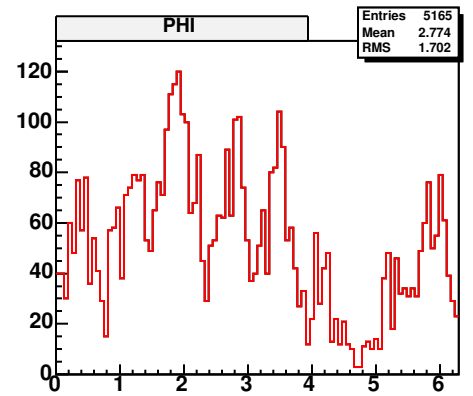


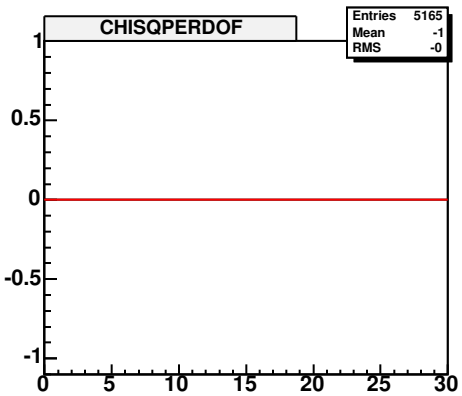
Muons (BCstub)

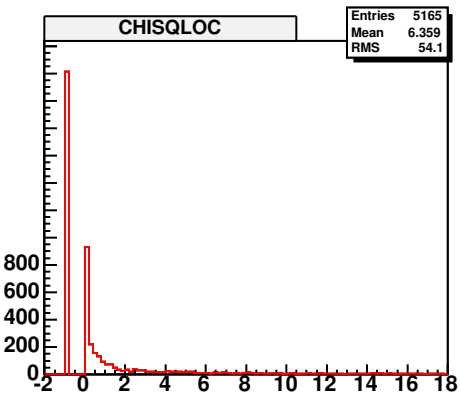


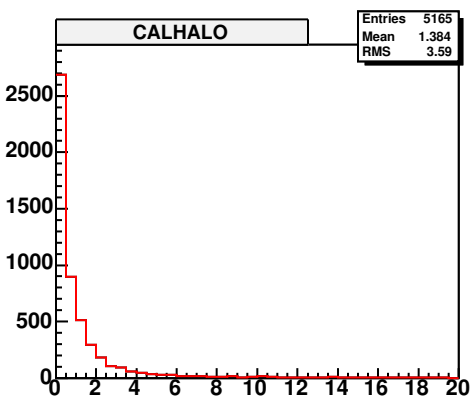


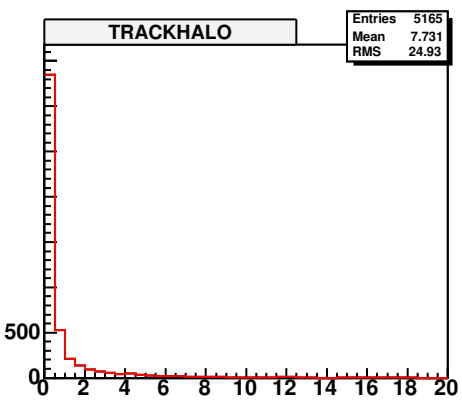


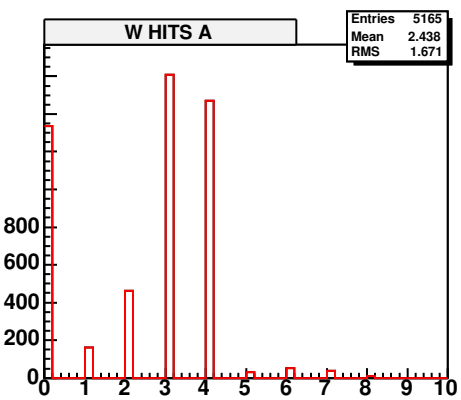


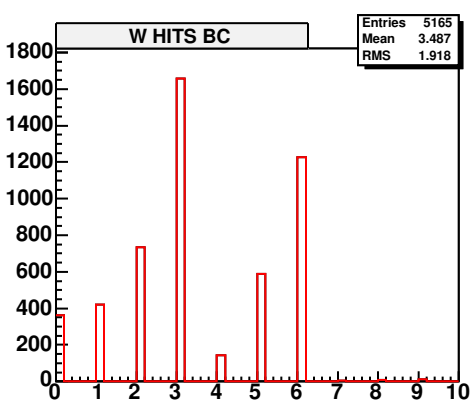


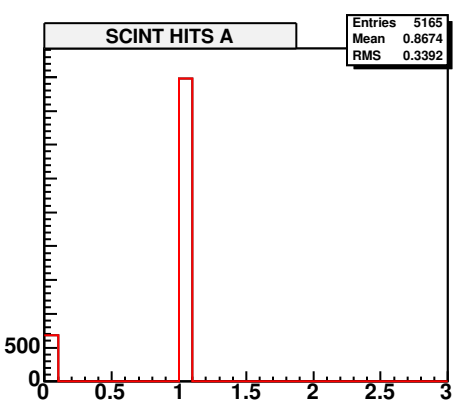


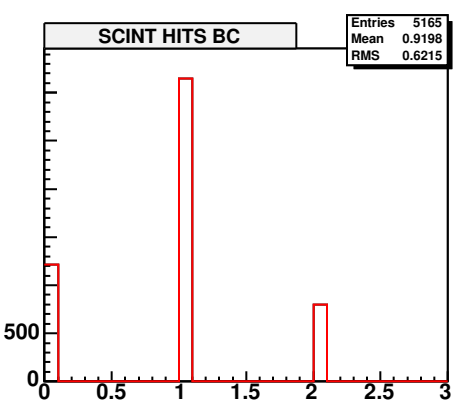




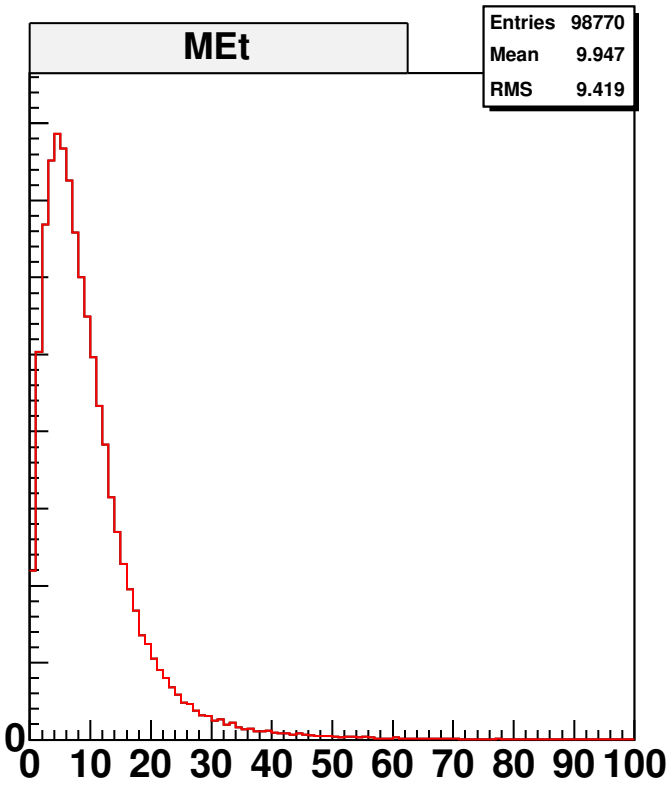


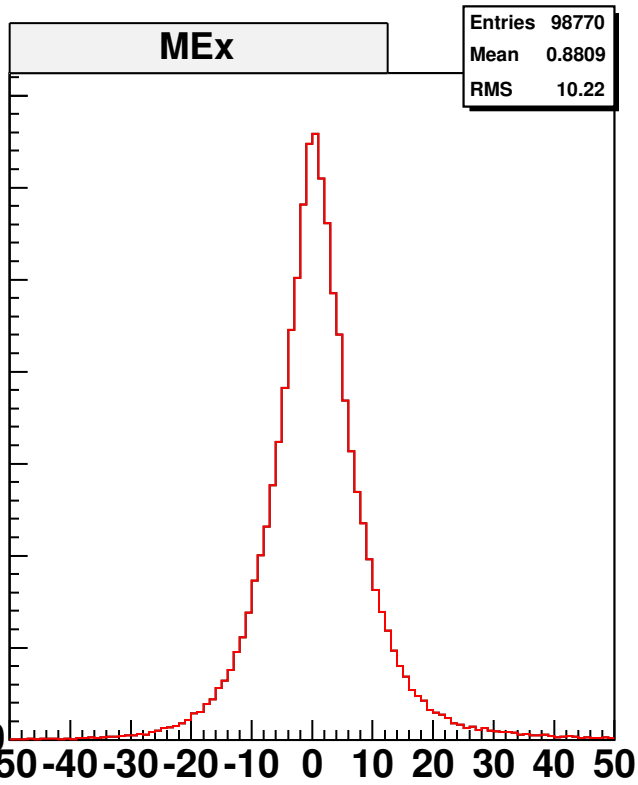


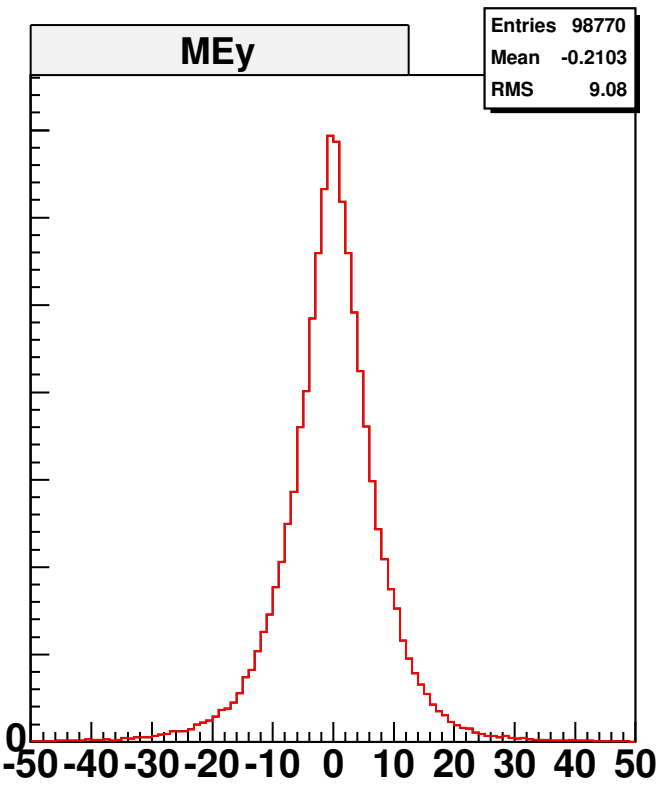




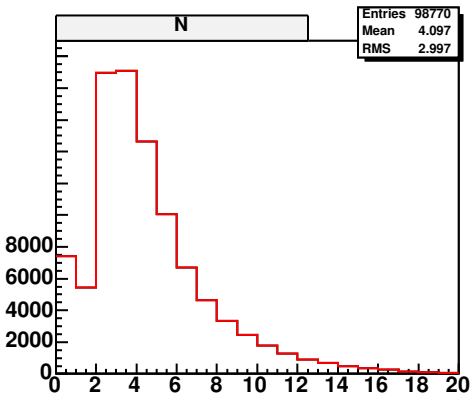
Muons (Unmatched)

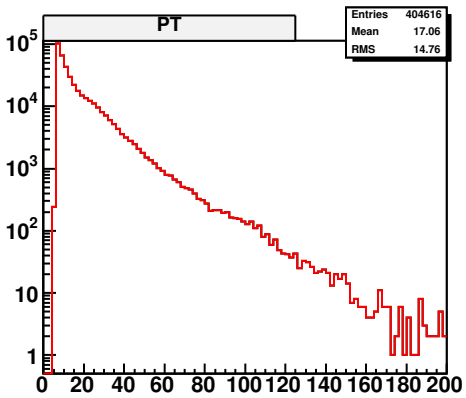

MEt
Entries 98770
Mean 9.947
RMS 9.419
0
0 10 20 30 40 50 60 70 80 90 100

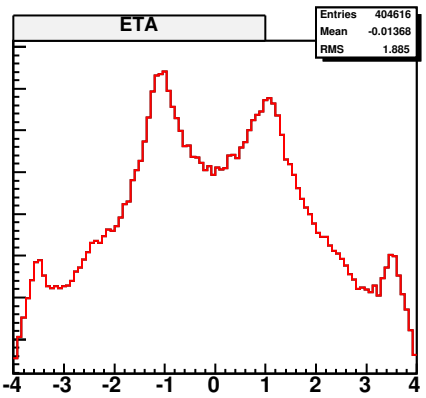

MEx
Entries 98770
Mean 0.8809
RMS 10.22
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

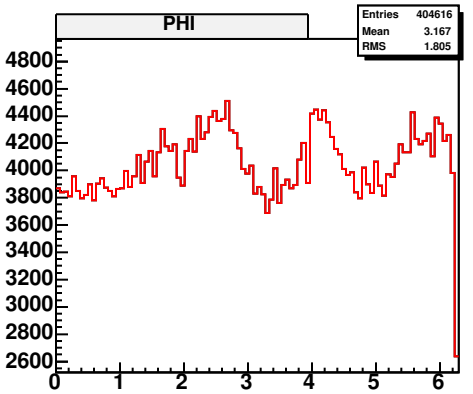

MEy
Entries 98770
Mean -0.2103
RMS 9.08
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

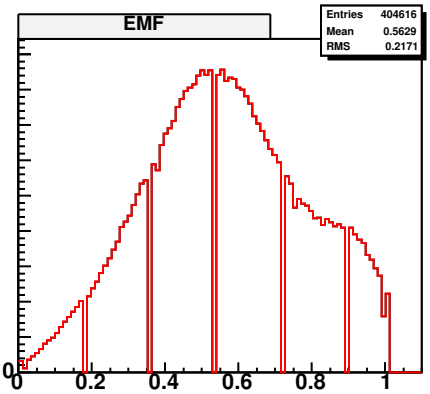
Met (No cuts)

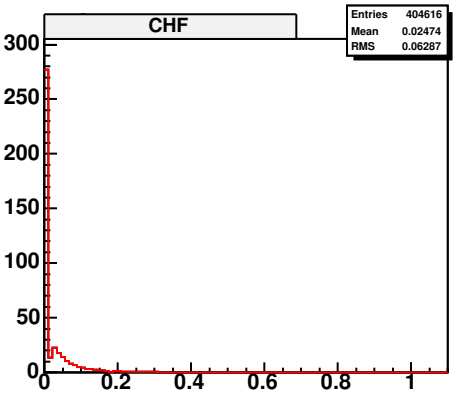


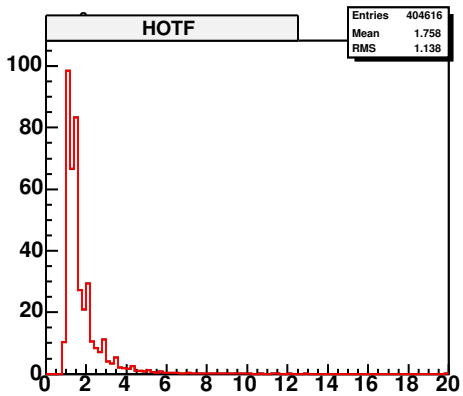


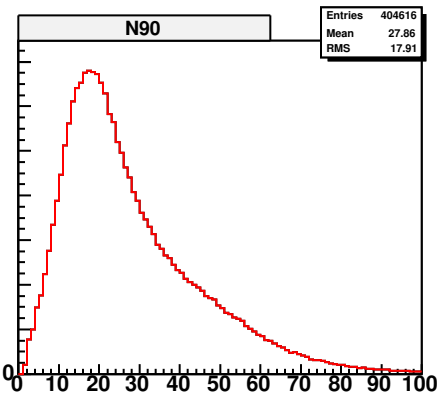


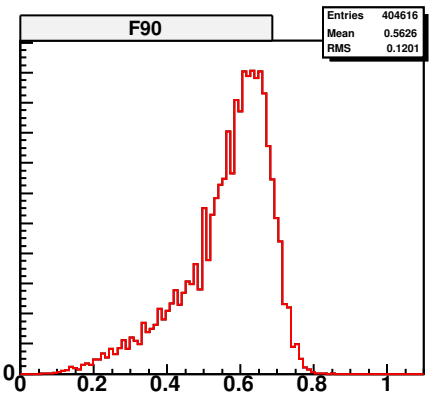


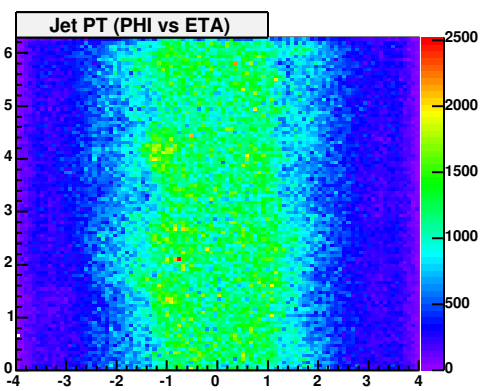




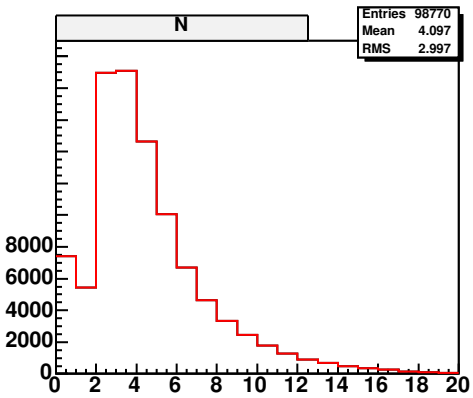


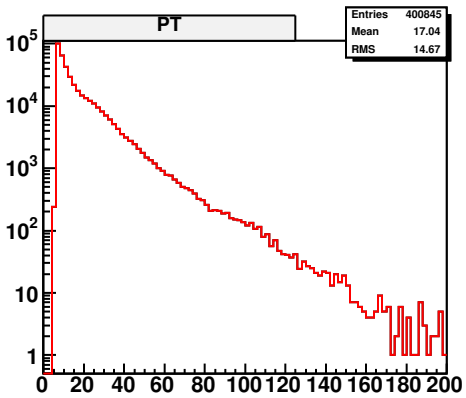


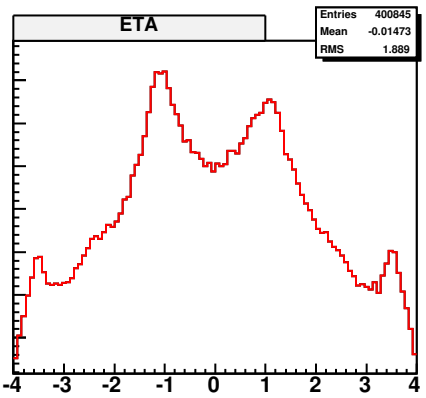


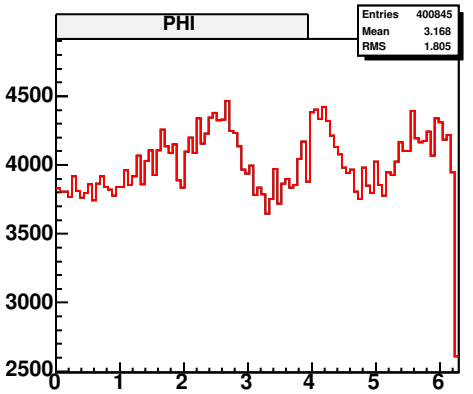


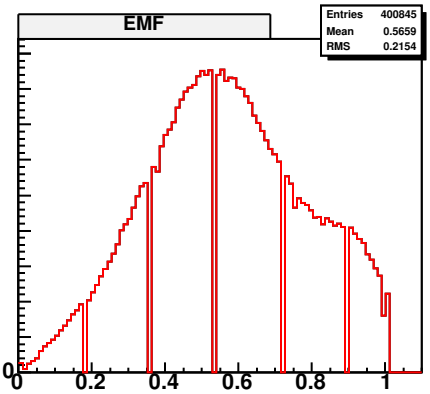
Jets (Cone R 0.7 (no cuts))

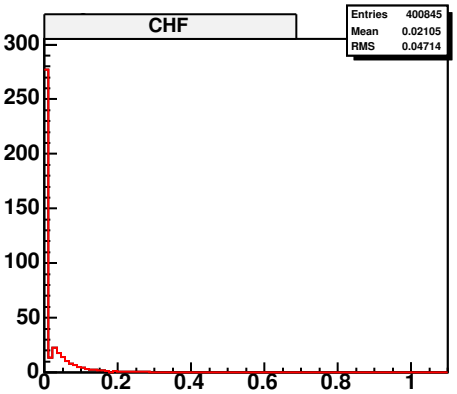


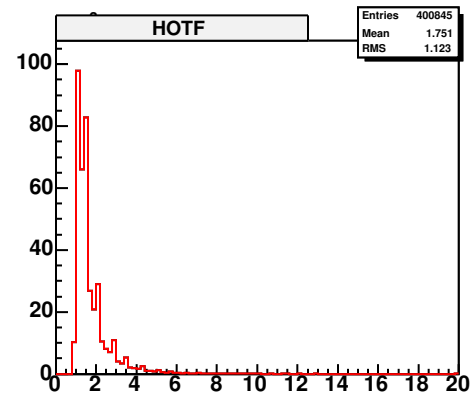


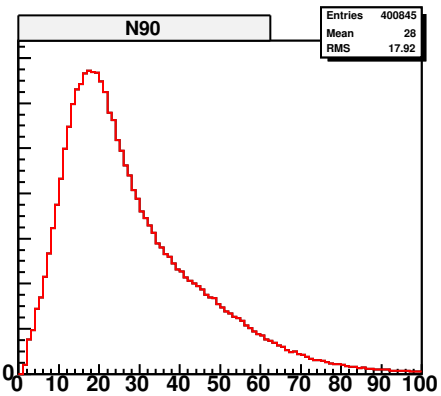


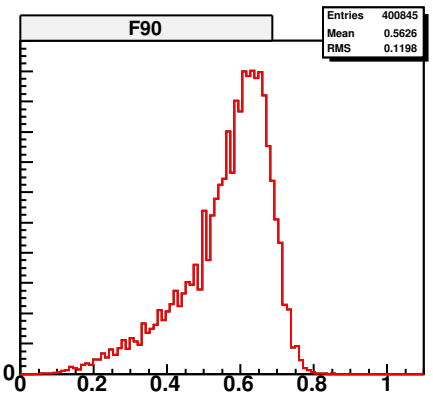


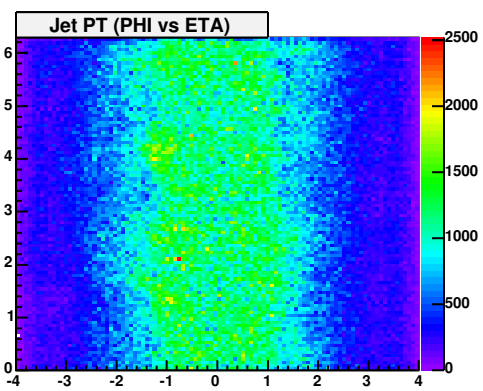




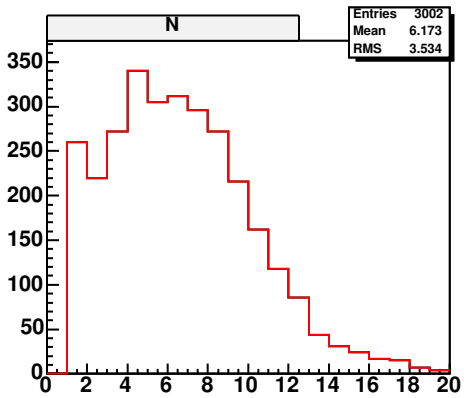


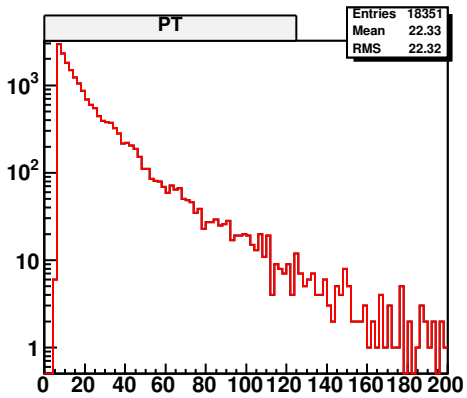


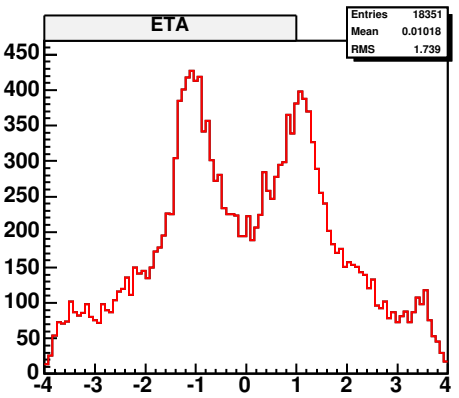


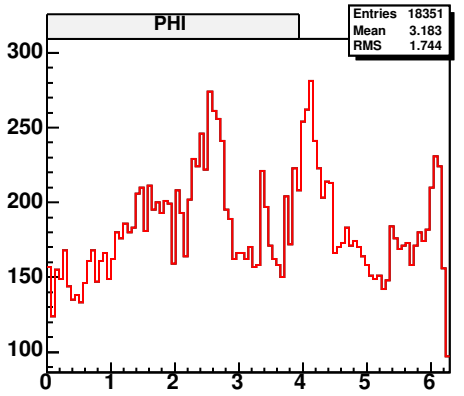


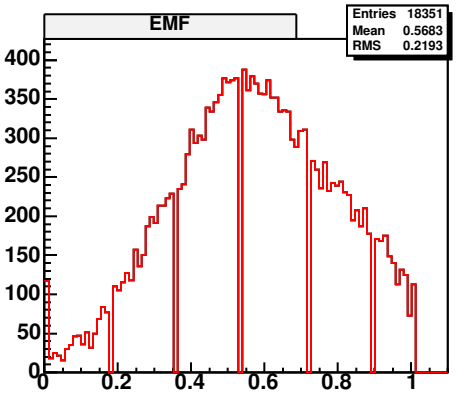
Jets (Cone R 0.7 (standard cuts))

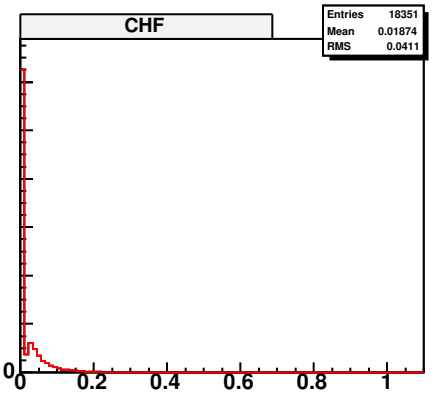


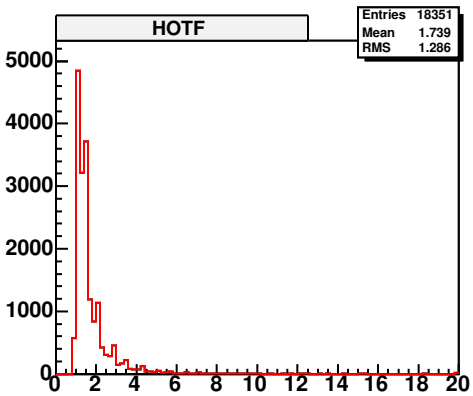


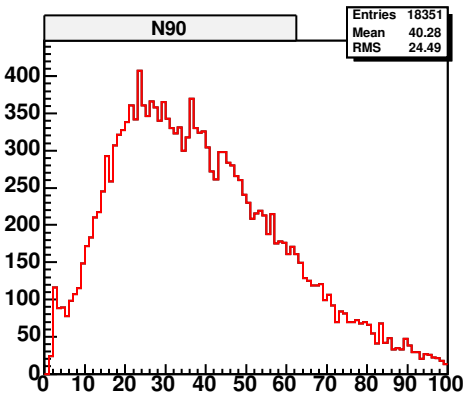


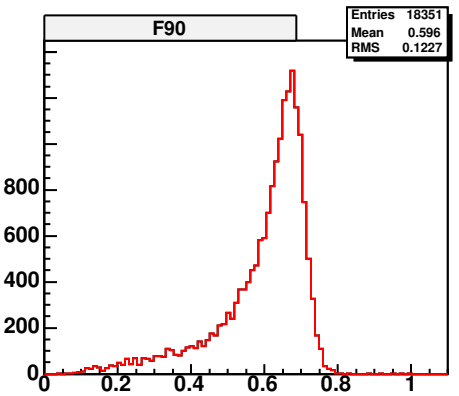


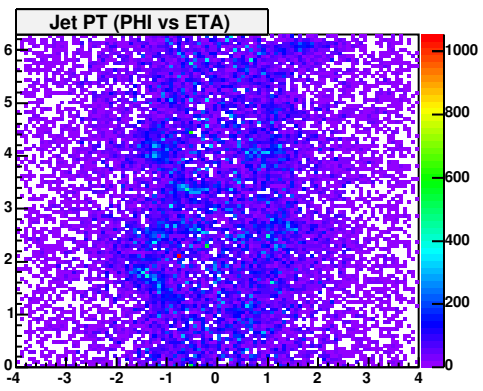




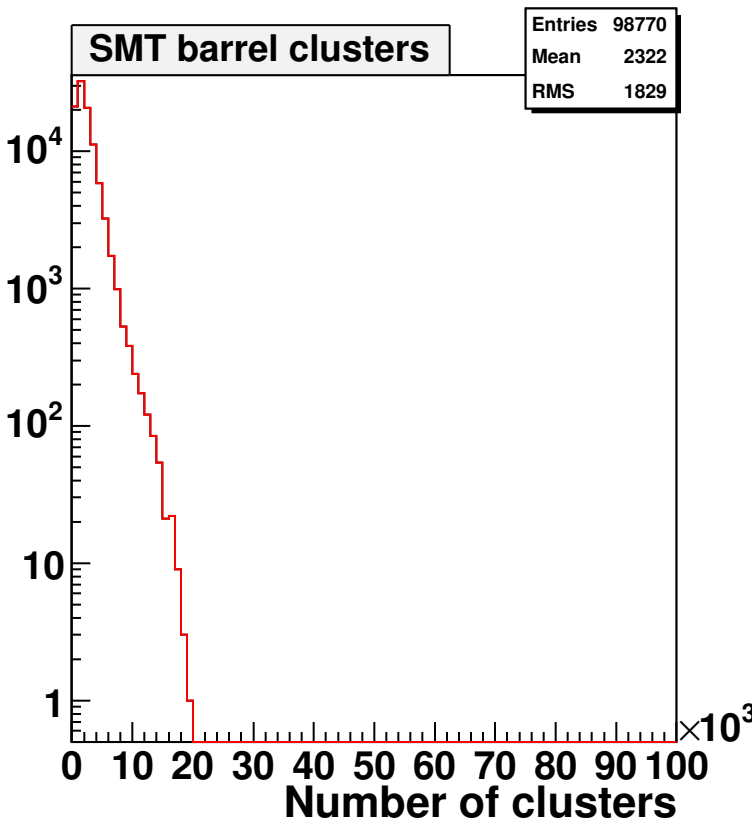


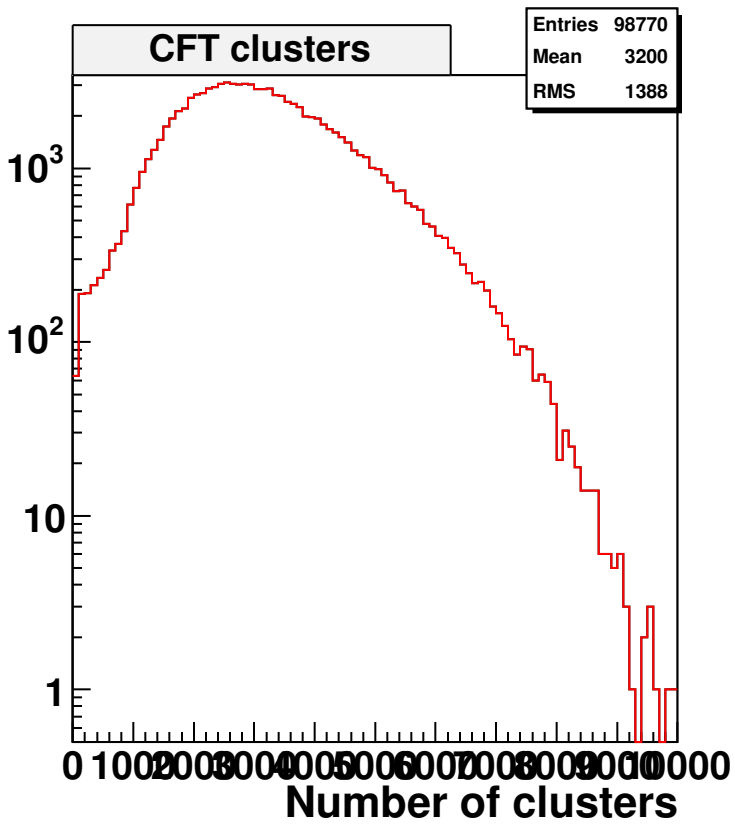


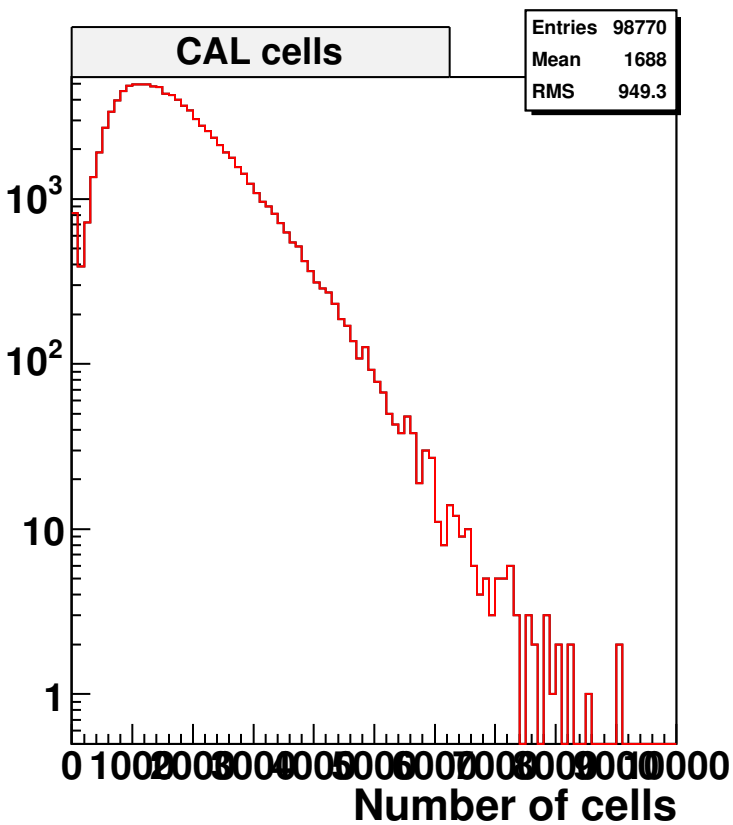


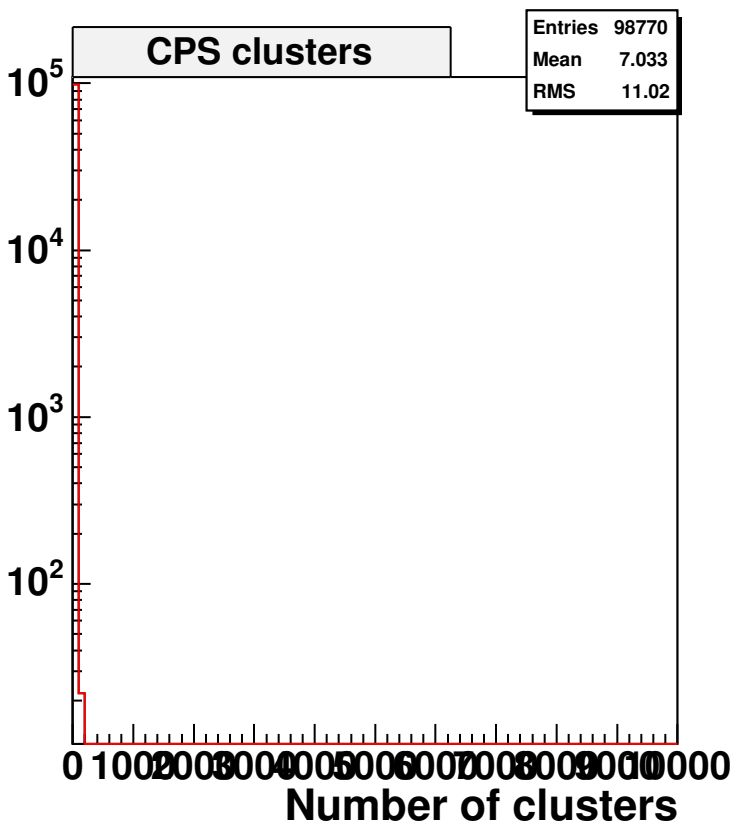


Jets (Cone R 0.7 (standard cuts, MET>30))

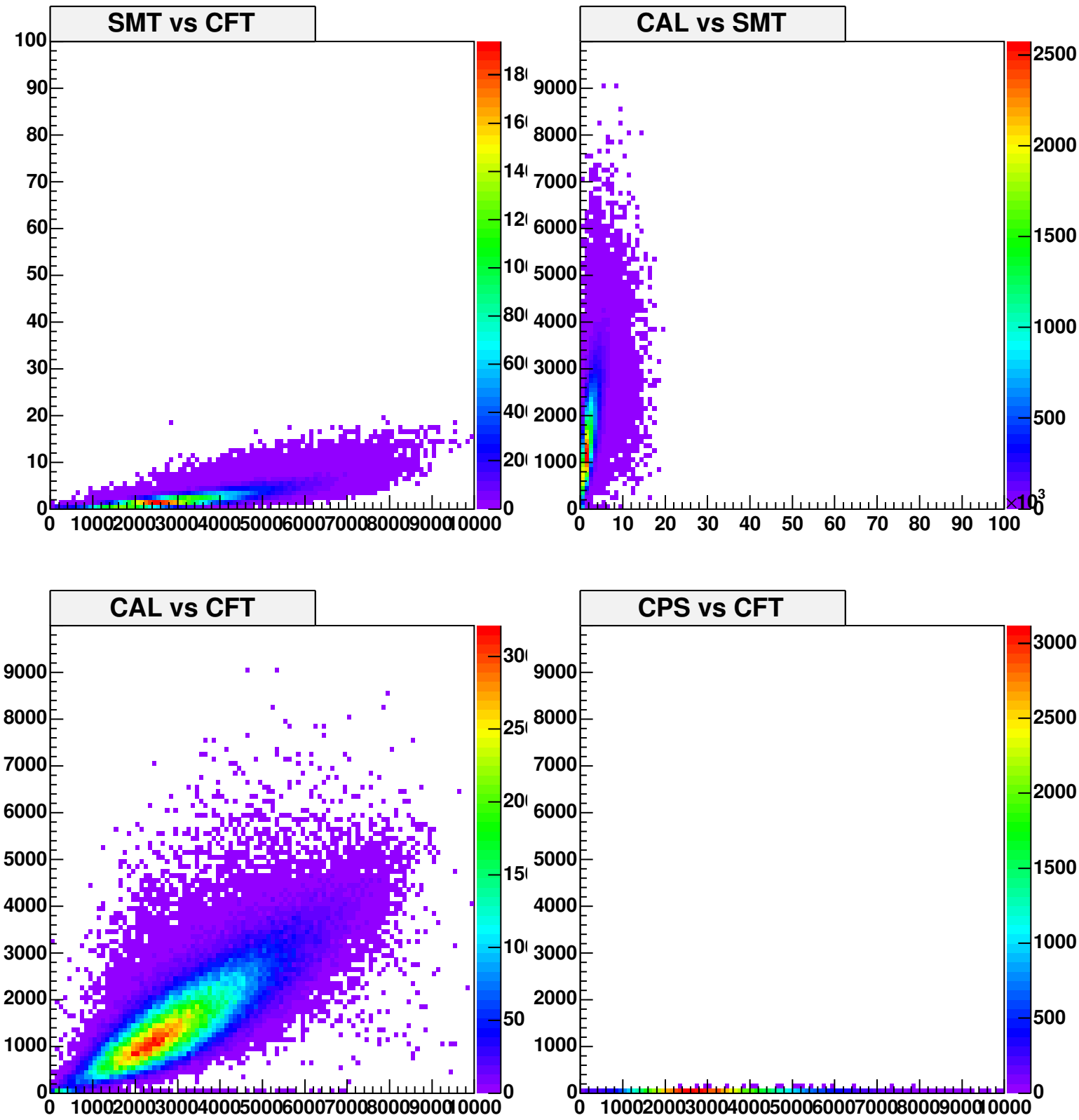


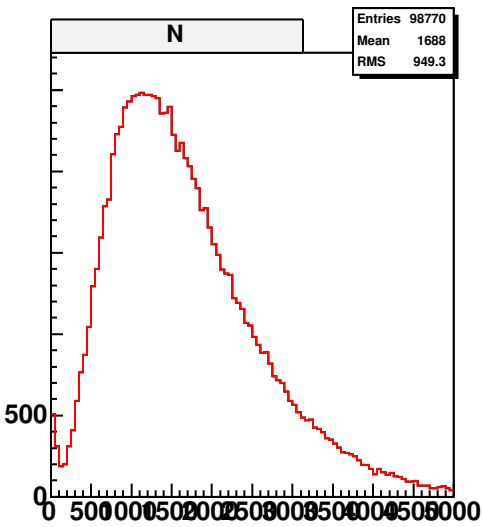


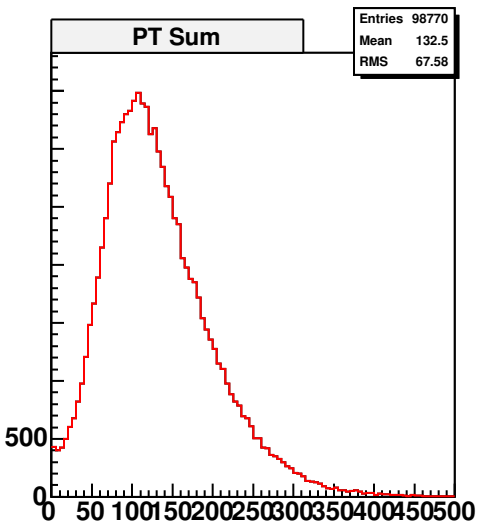


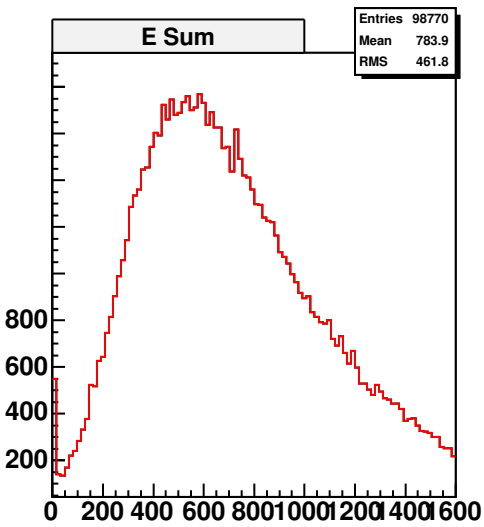


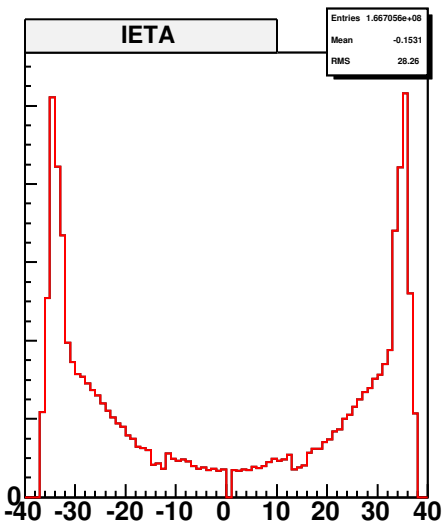
Detector Occupancy (Detector)

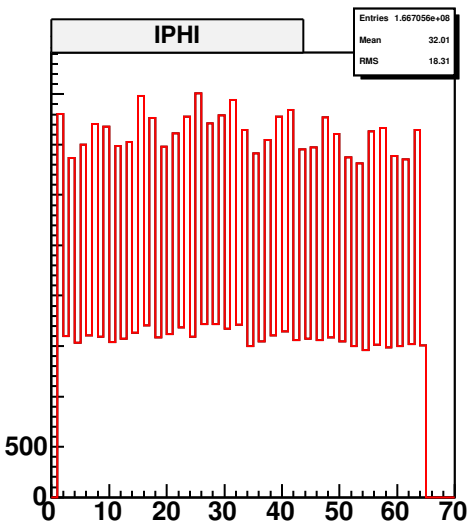

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

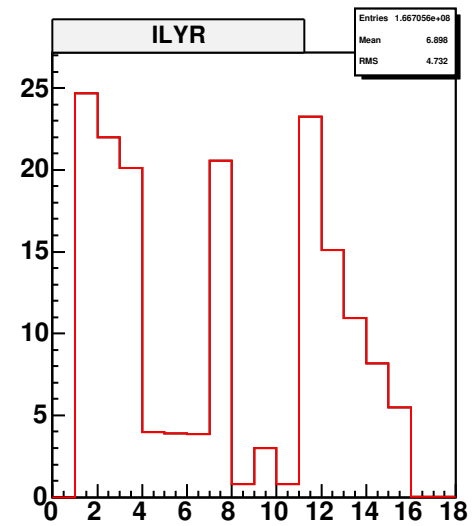


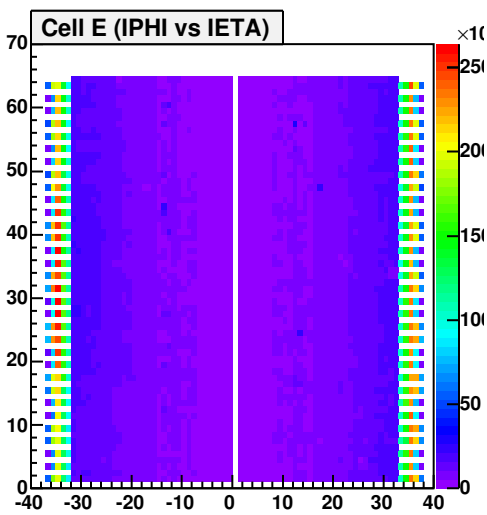


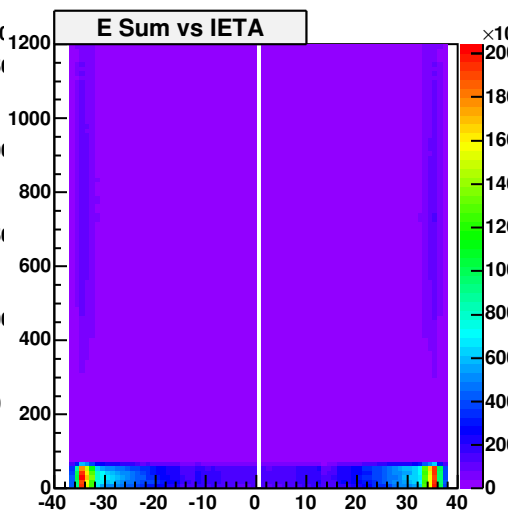


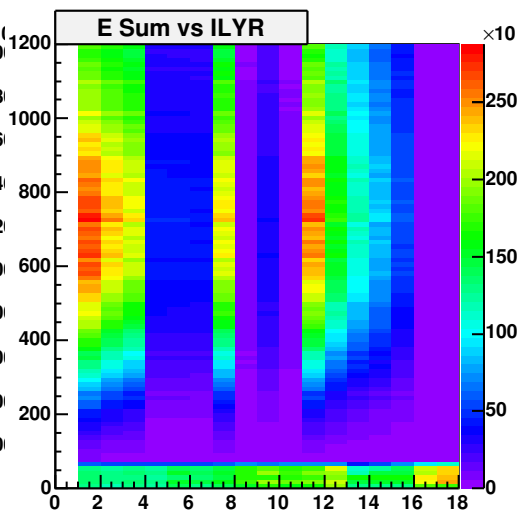




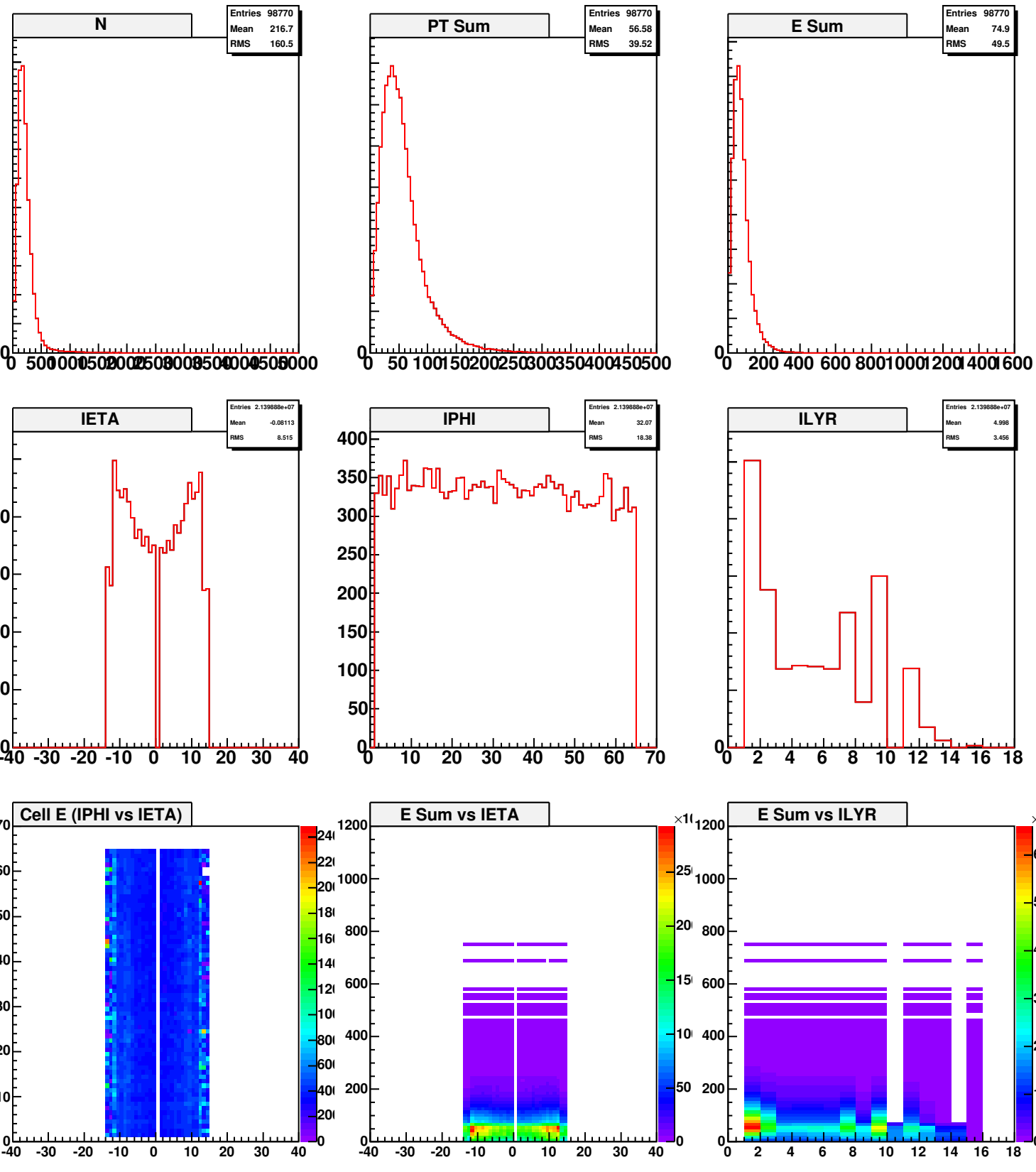




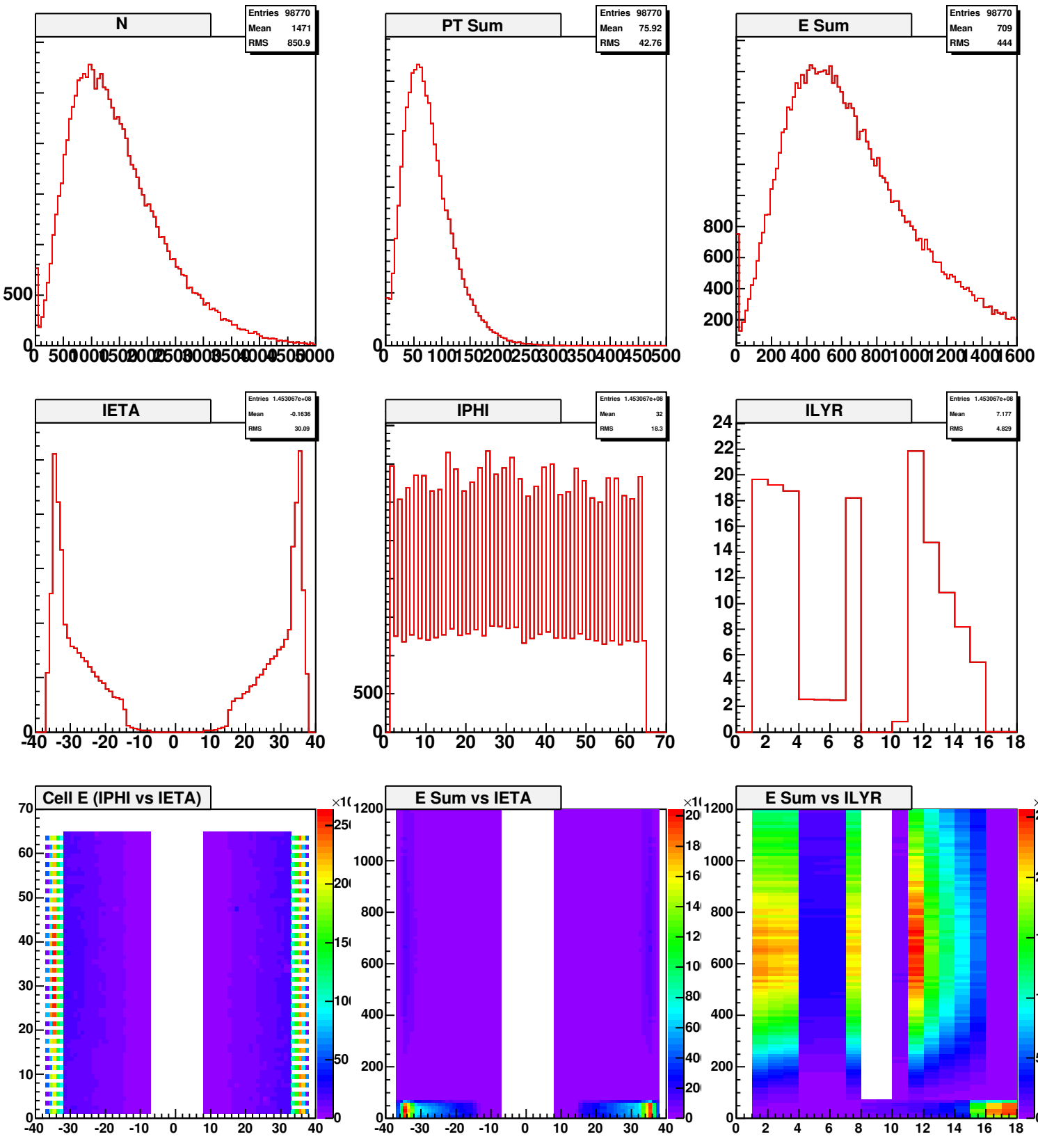




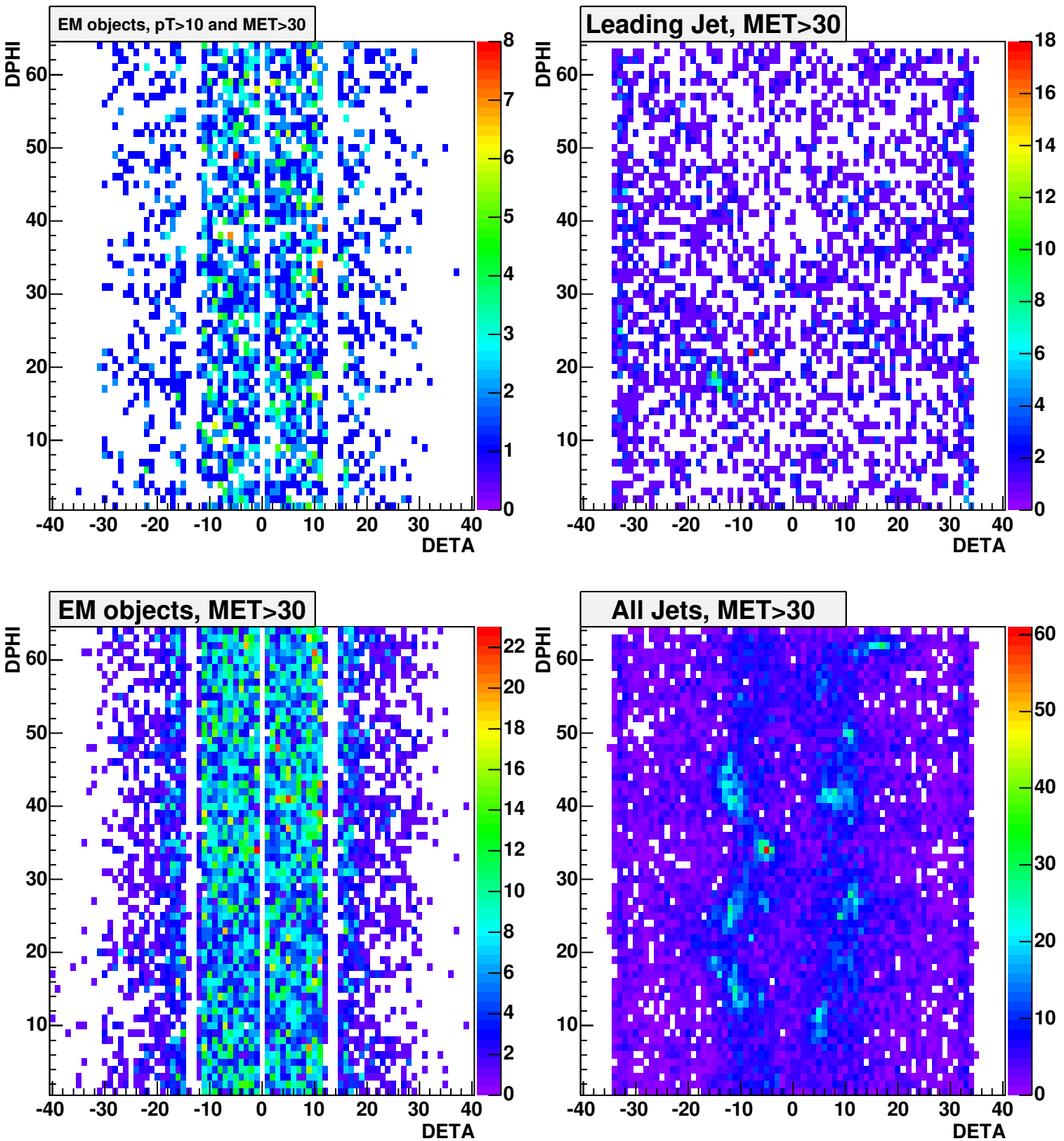
Calorimeter (All cells)



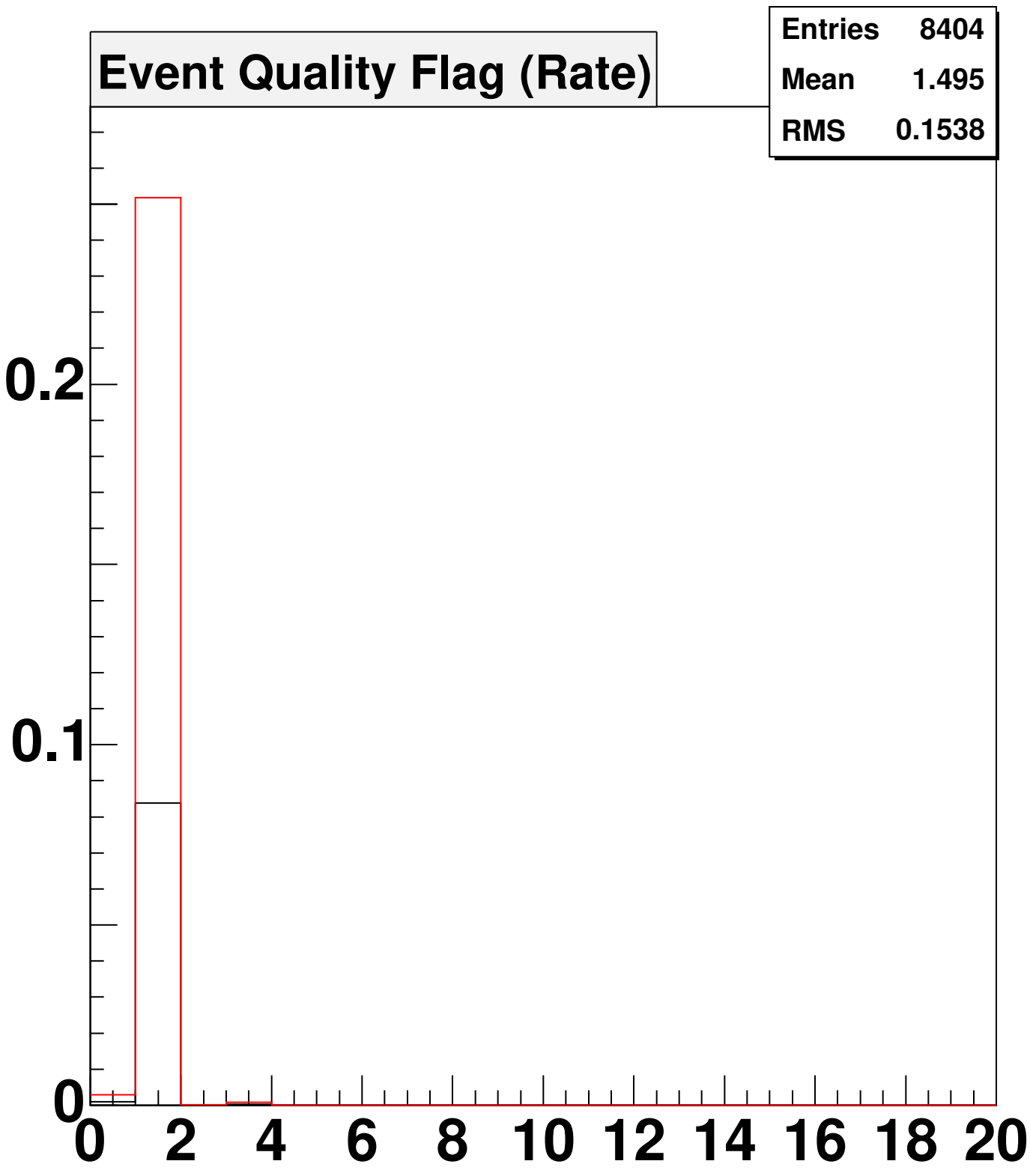
Calorimeter (All CC cells)

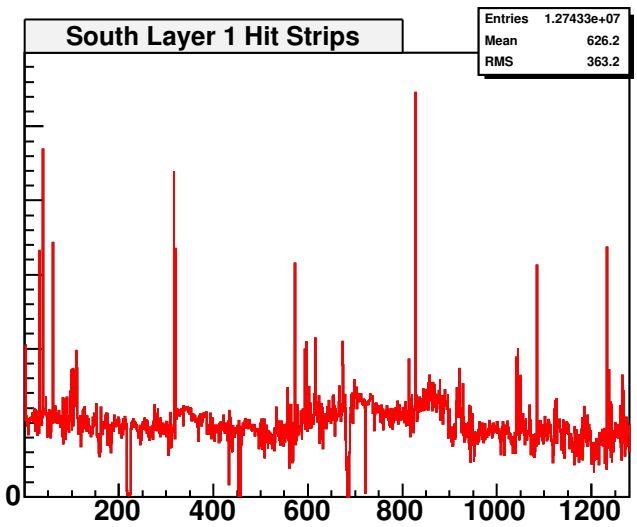


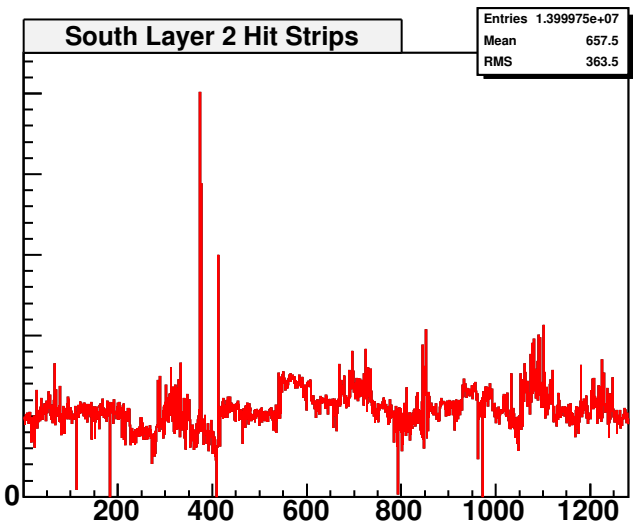
Calorimeter (All EC cells)

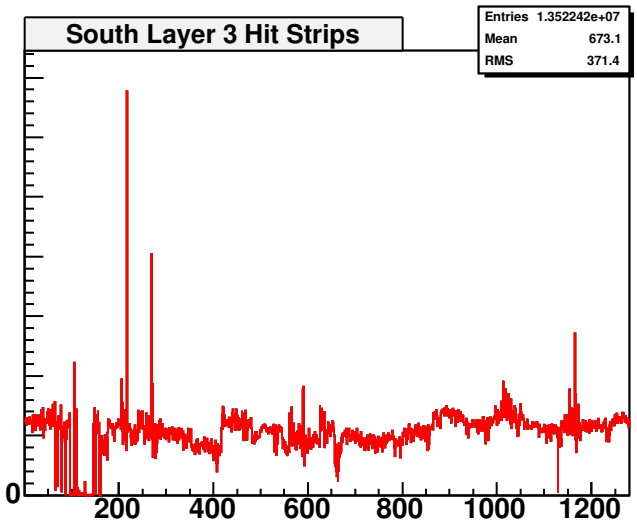


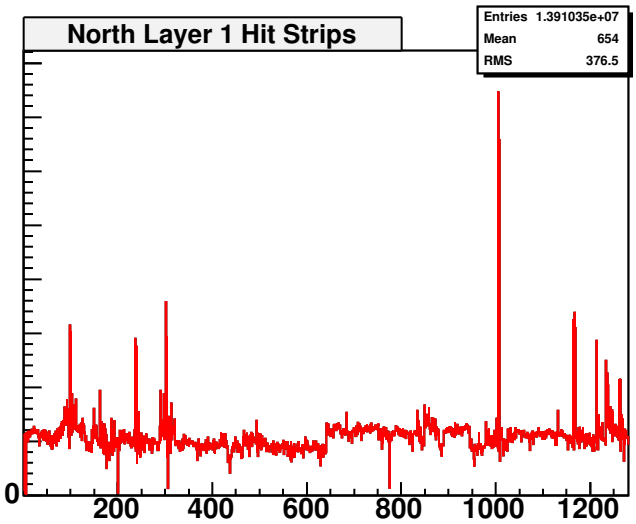
Cal Objects with MET>30 (All cells)

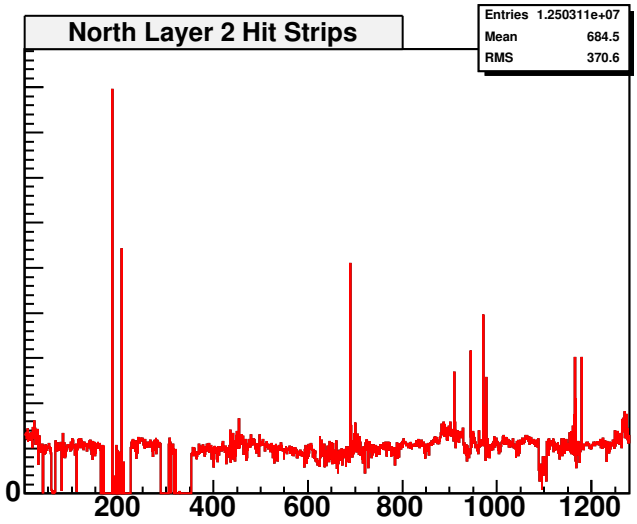

Event Quality Flag (Rate)
Entries 8404
Mean 1.495
RMS 0.1538
0.2
0.1
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

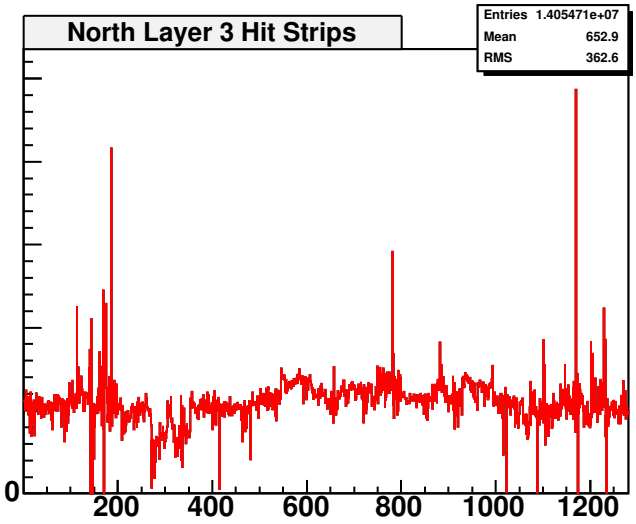




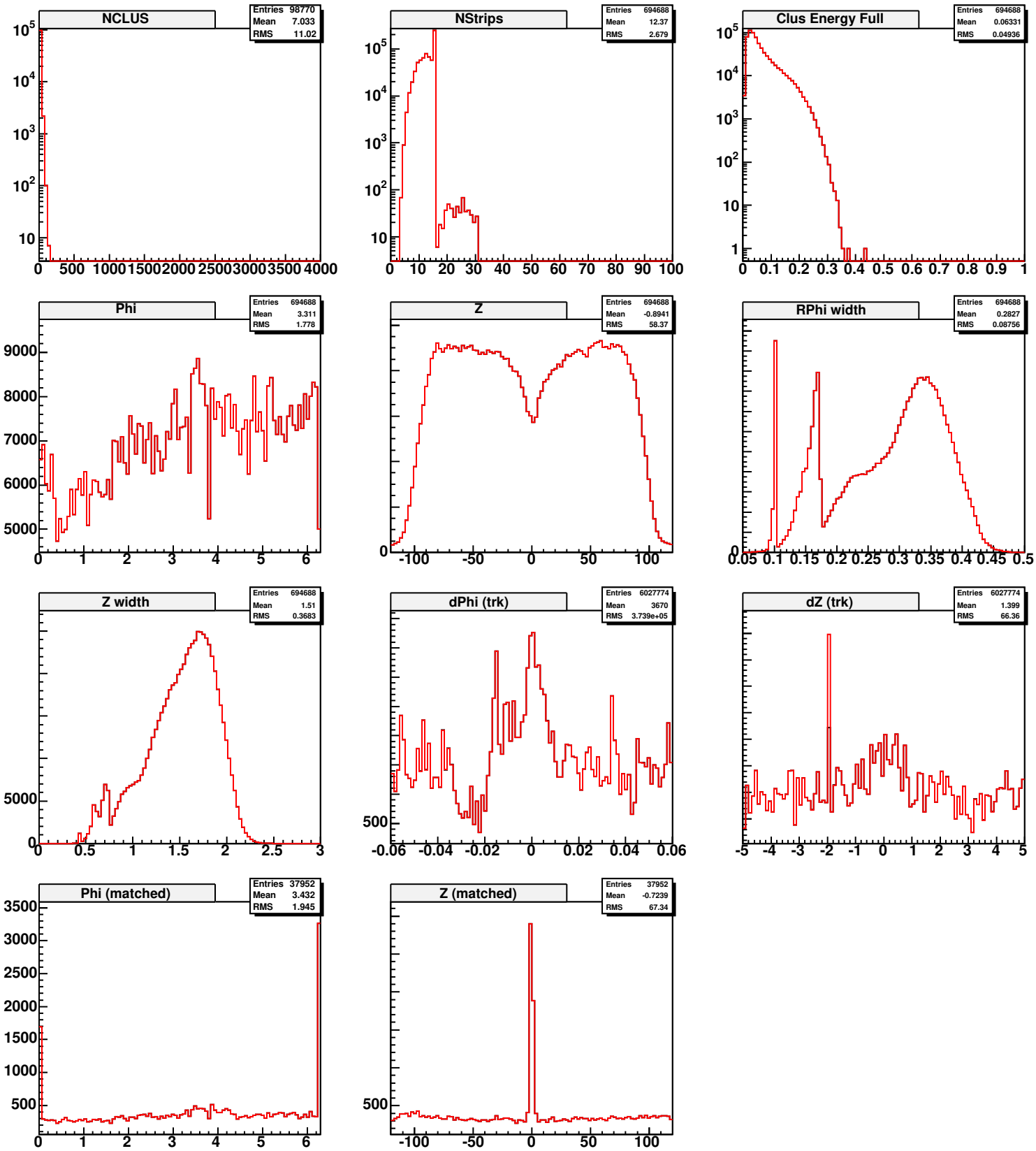




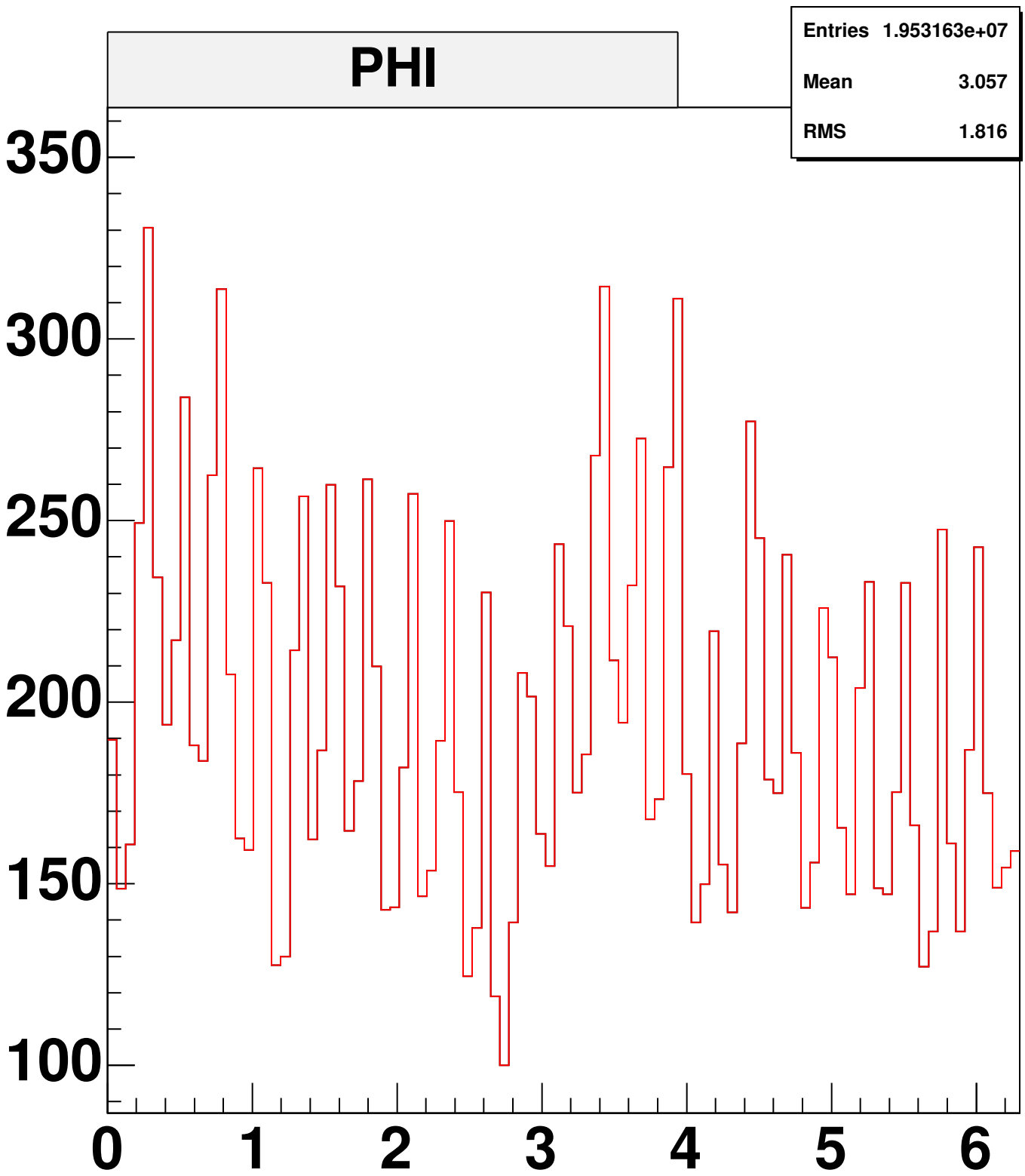


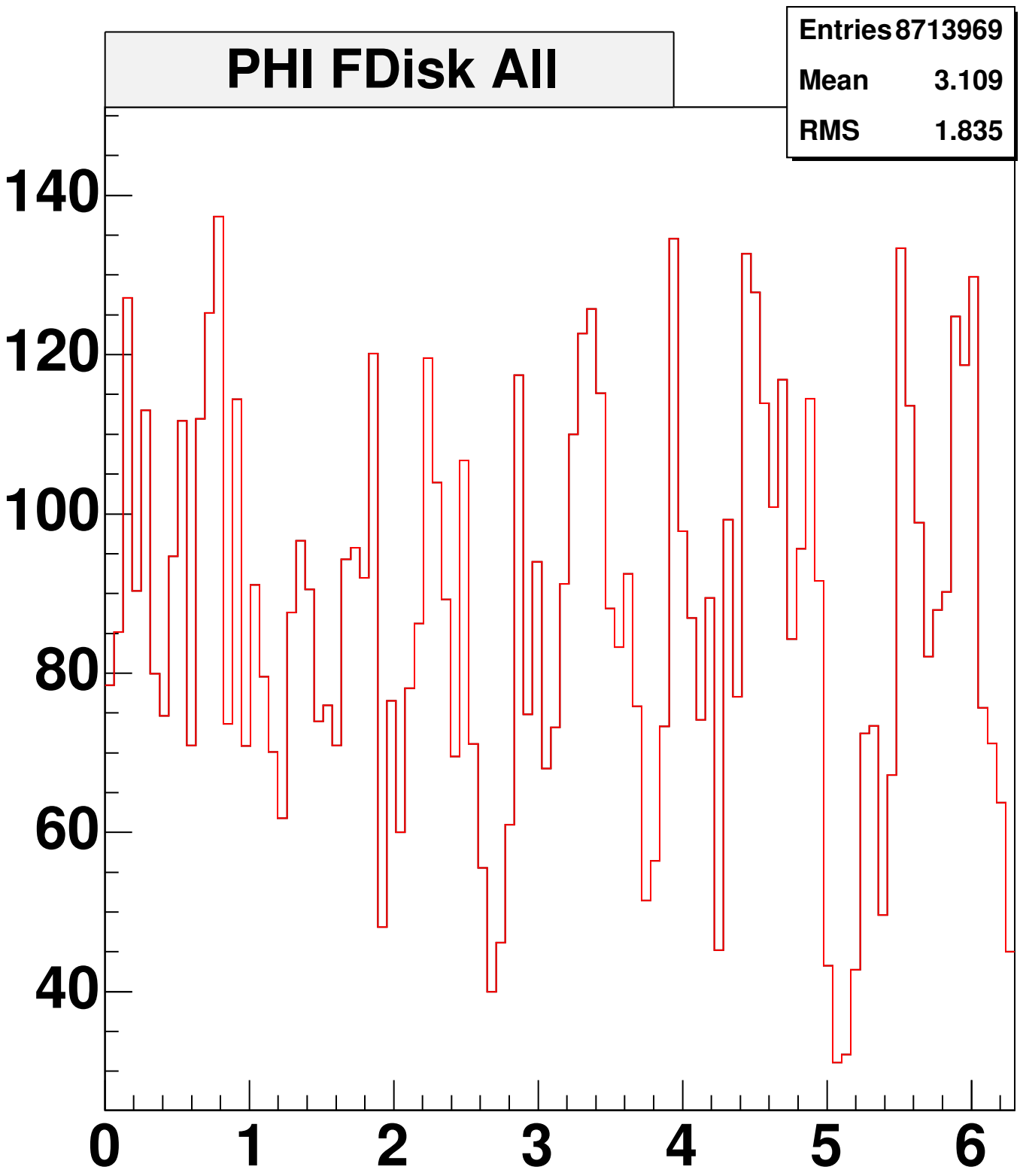


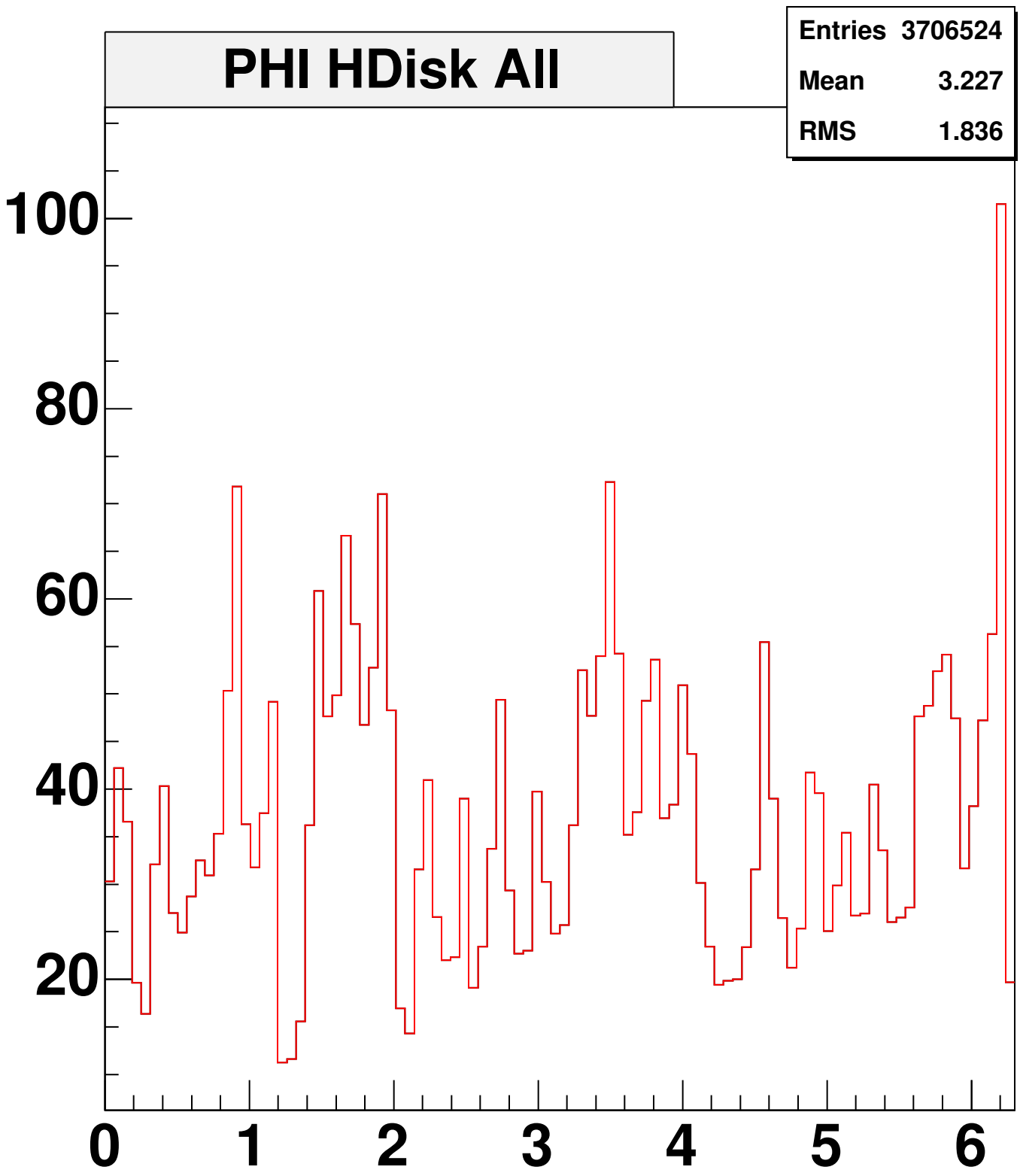
CPS Hit Strips (All Clusters)

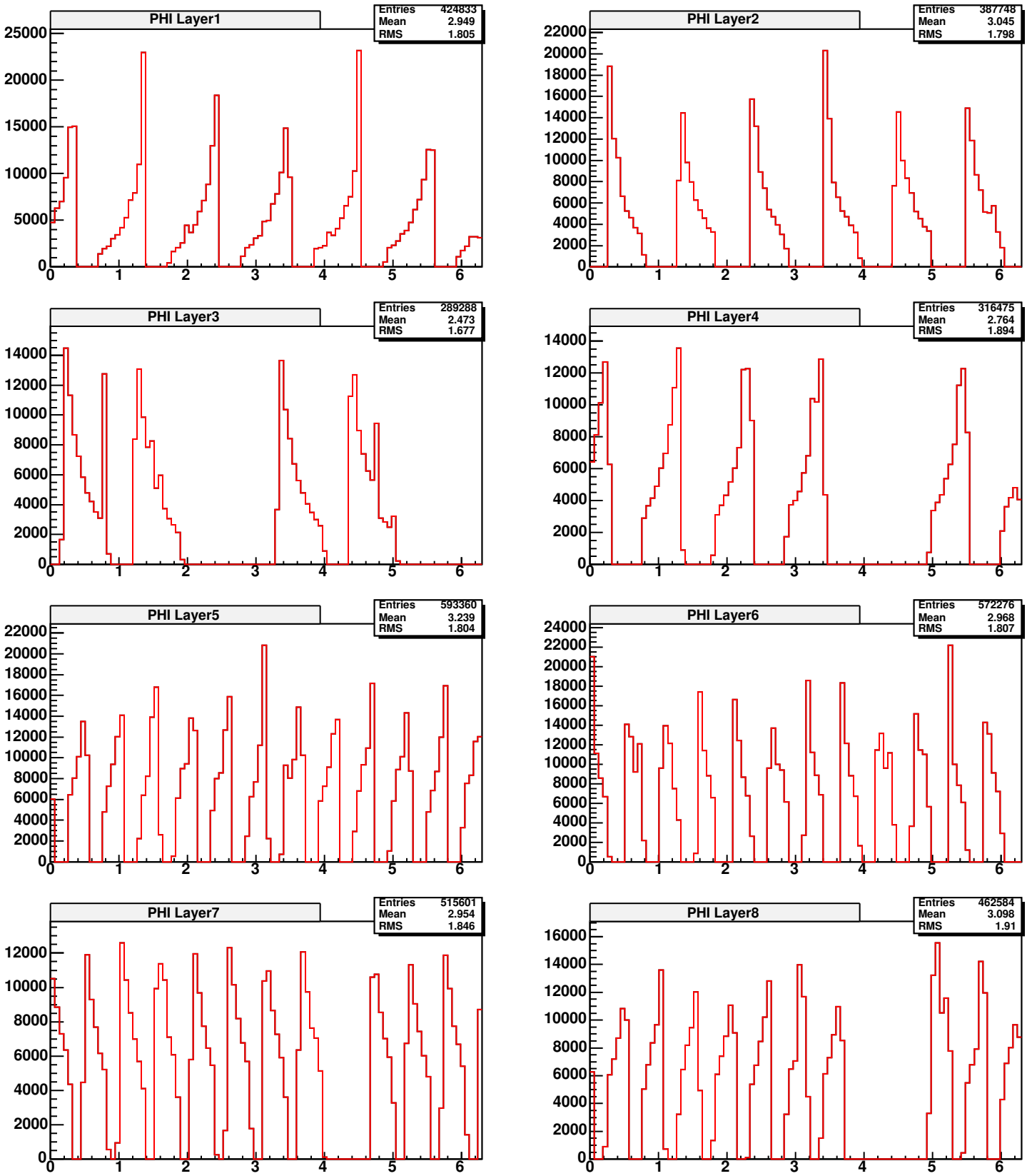


CPS Clusters (All Clusters)

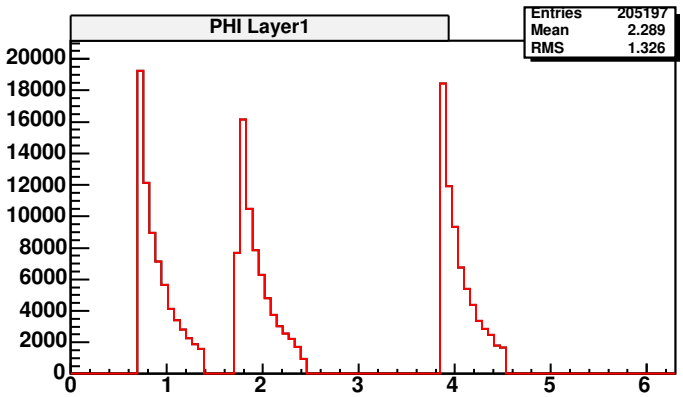

PHI
Entries 1.953163e+07
Mean 3.057
RMS 1.816
350
300
250
200
150
100
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

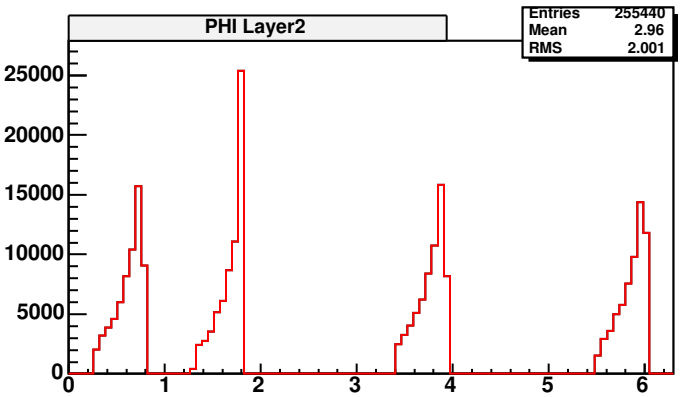

PHI FDisk All
Entries 8713969
Mean 3.109
RMS 1.835
140
120
100
80
60
40
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

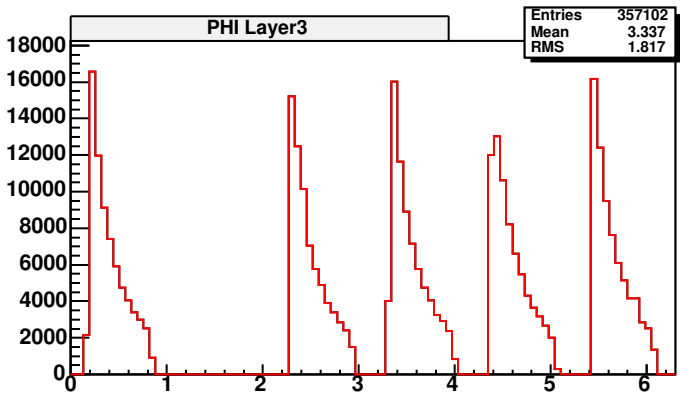

PHI HDisk All
Entries 3706524
Mean 3.227
RMS 1.836
100
80
60
40
20
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

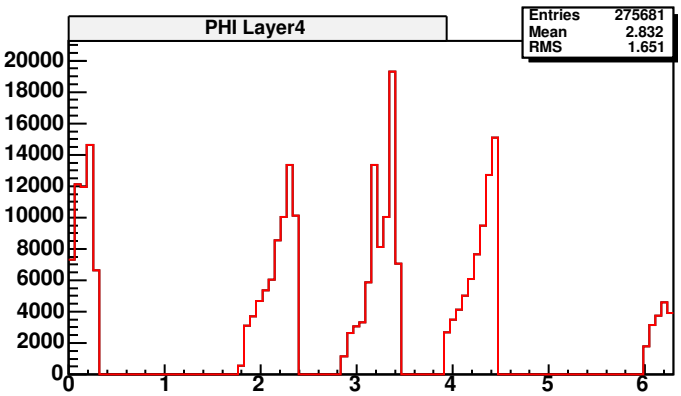


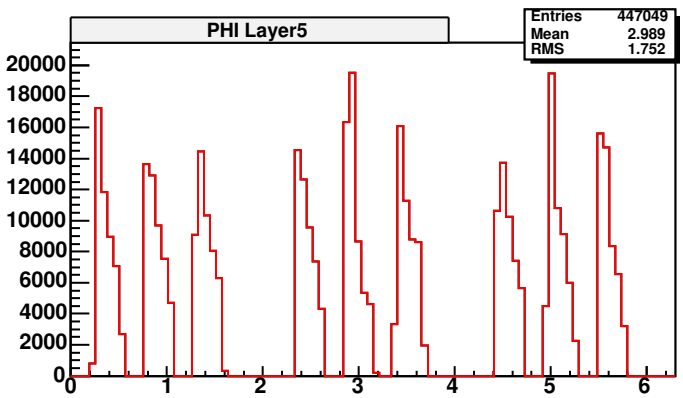
SmtClusters (ClustrBar1)

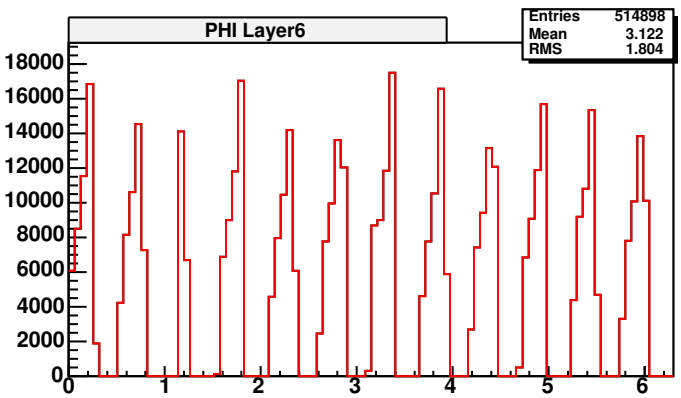


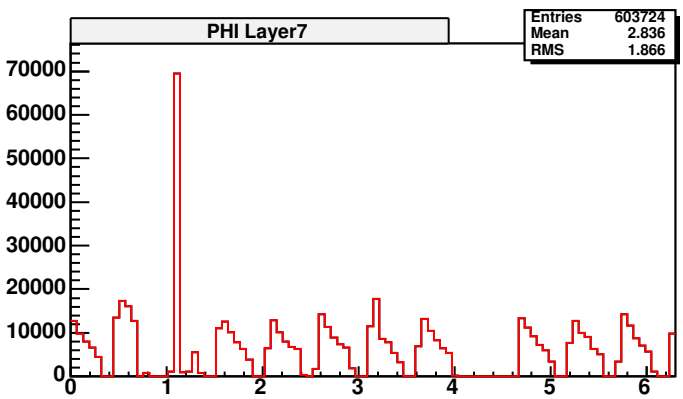


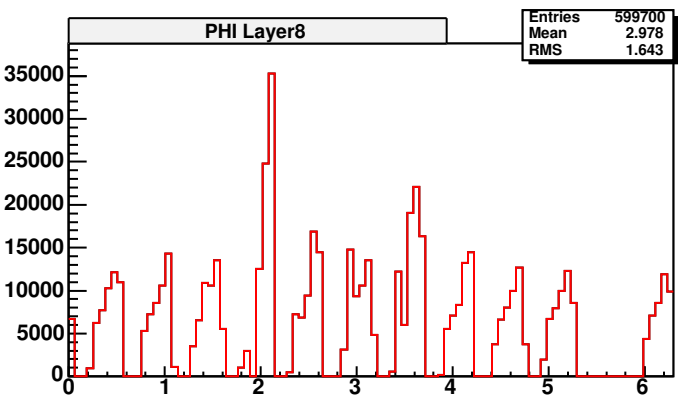




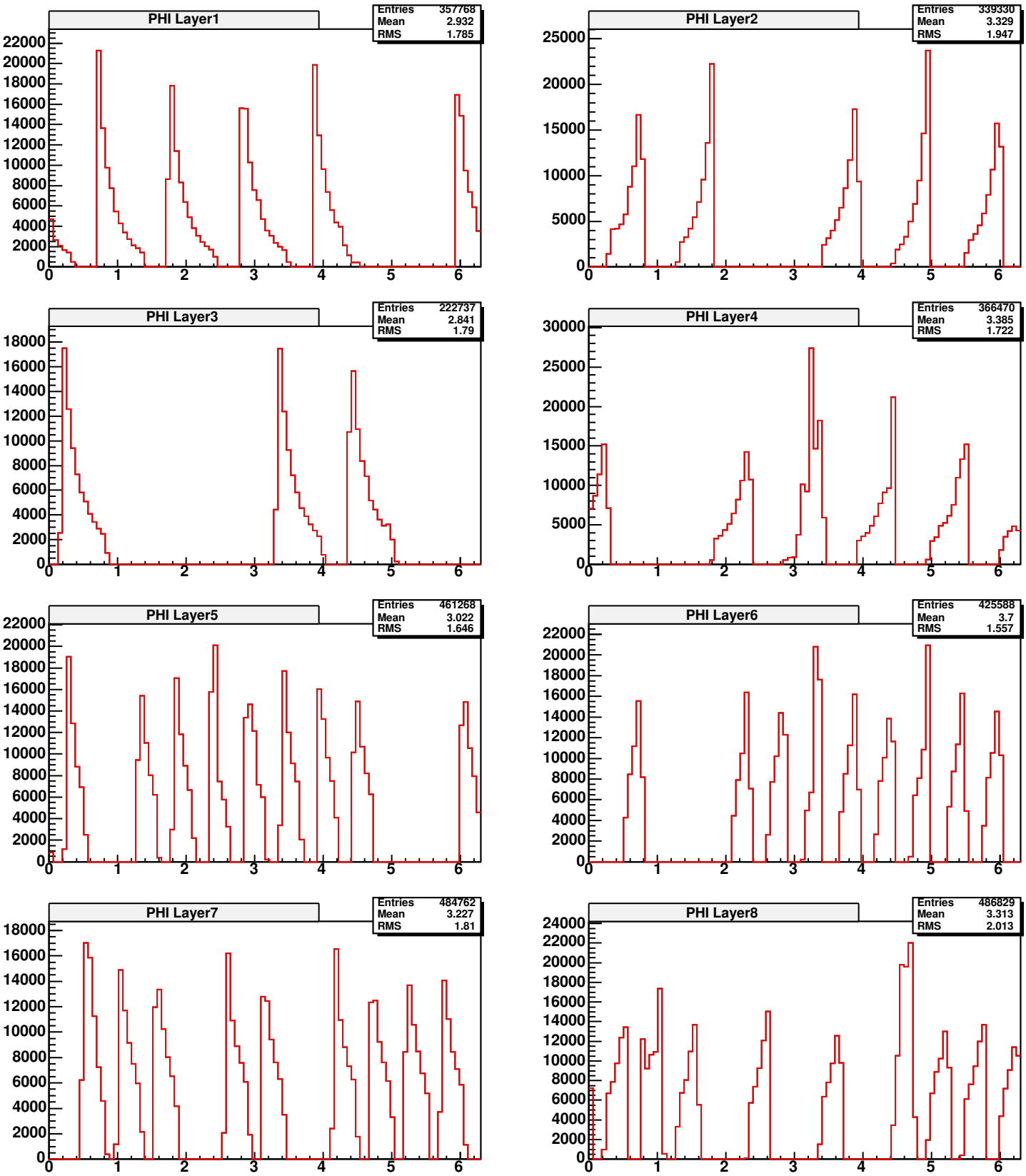




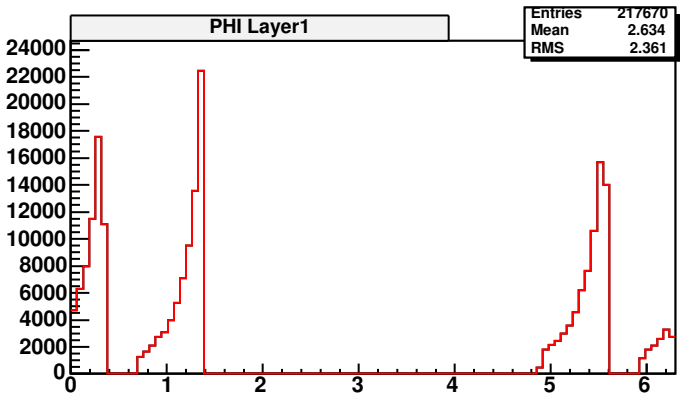


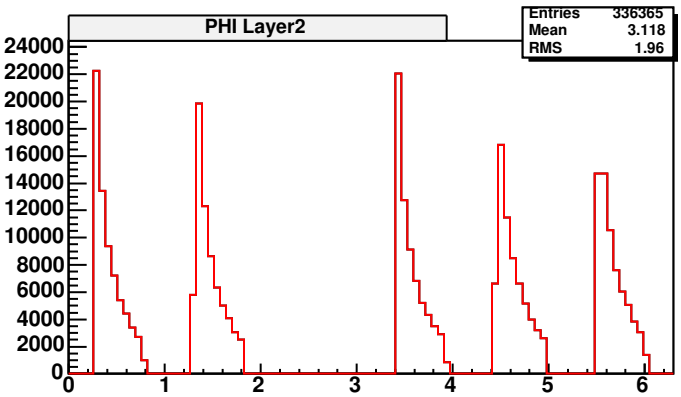


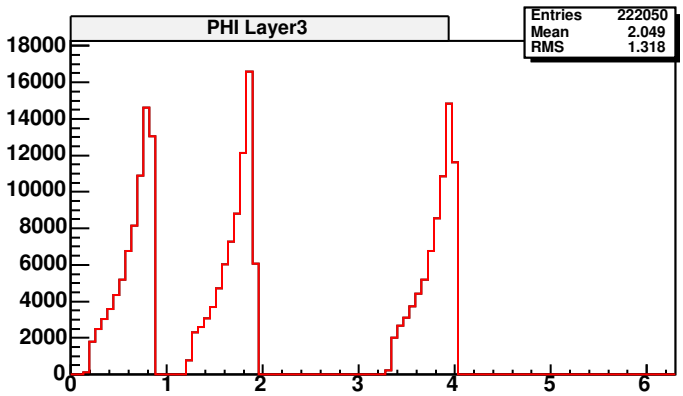
SmtClusters (ClustrBar2)

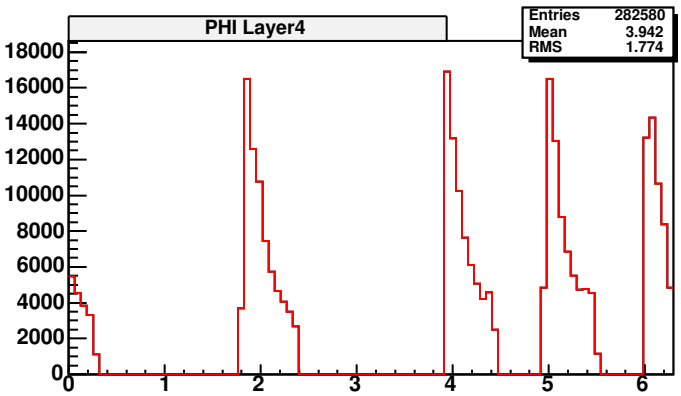


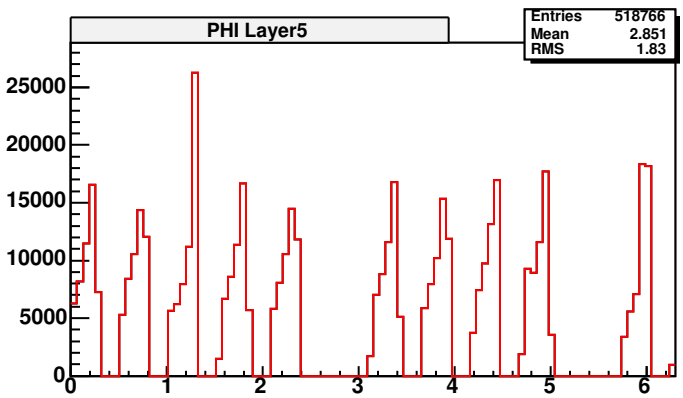
SmtClusters (ClustrBar3)

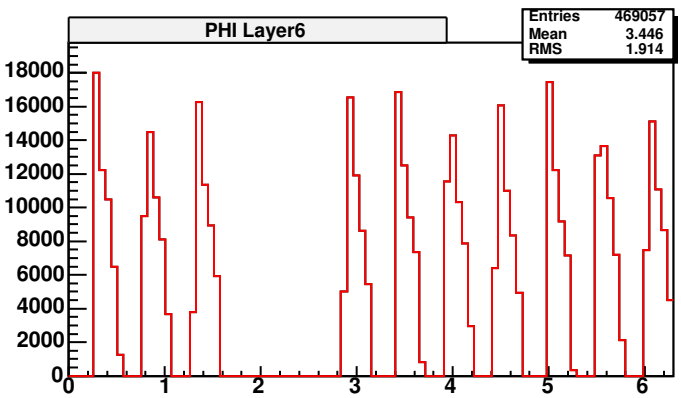


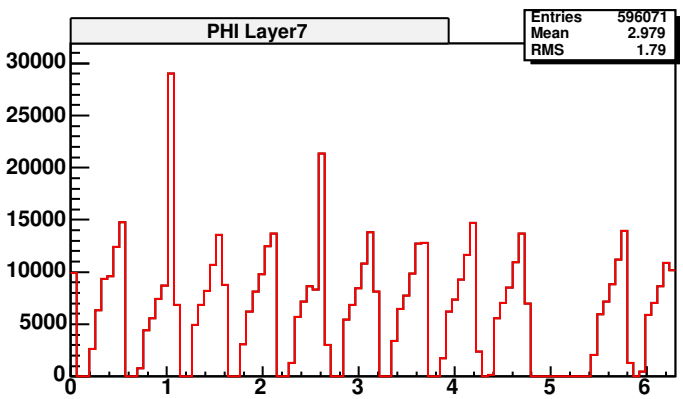


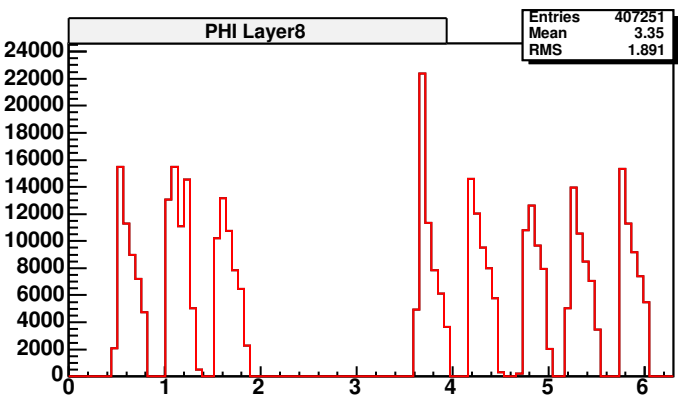




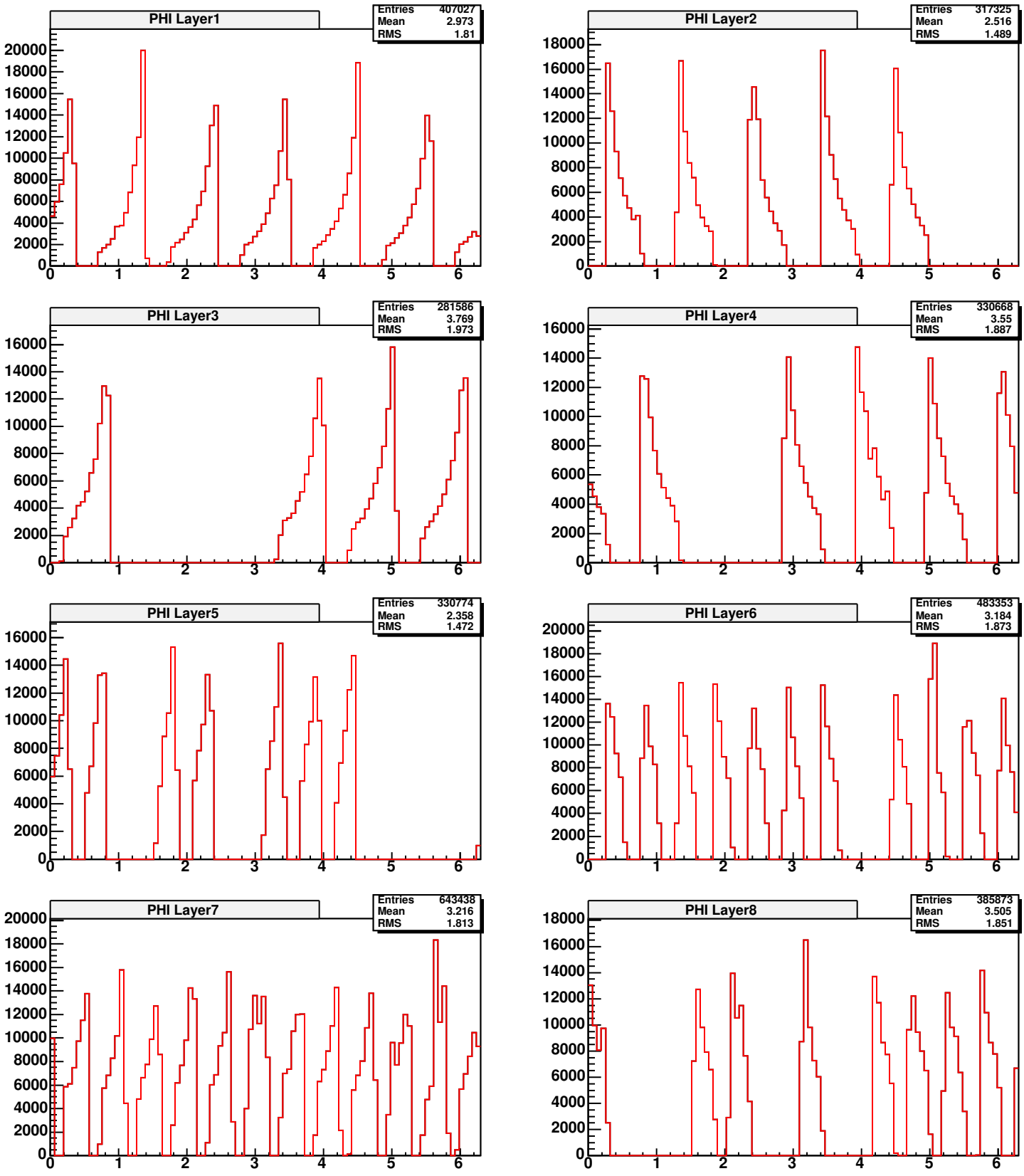




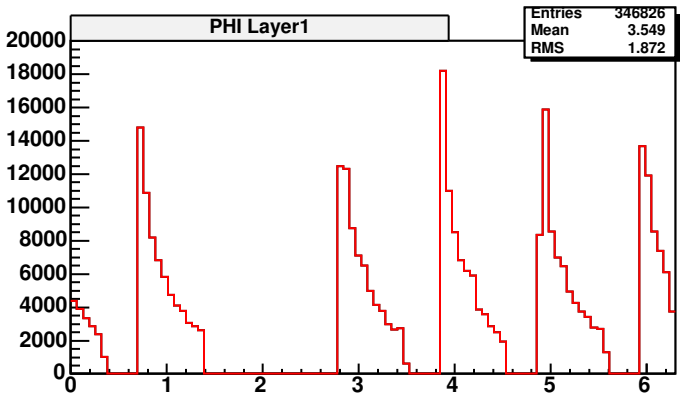


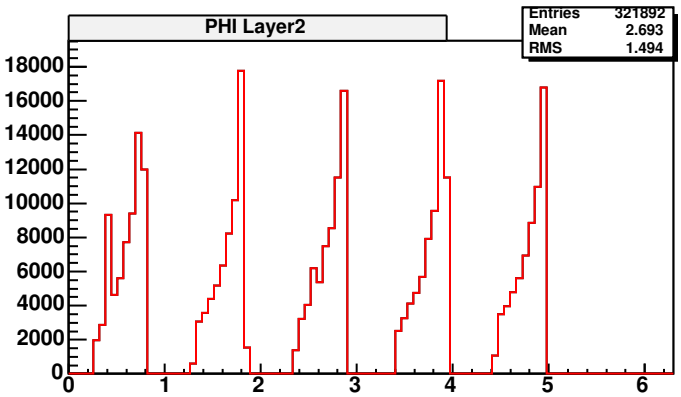


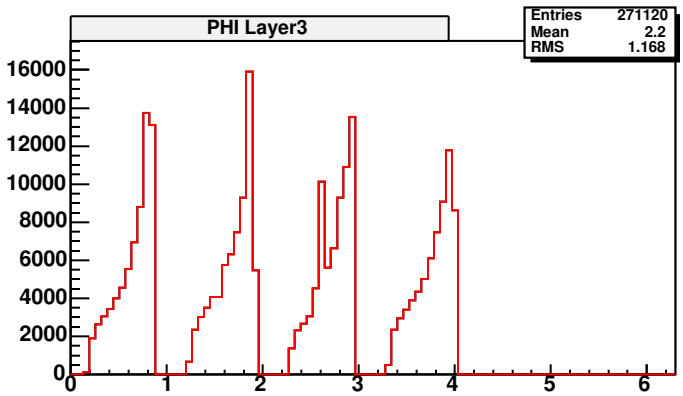
SmtClusters (ClustrBar4)

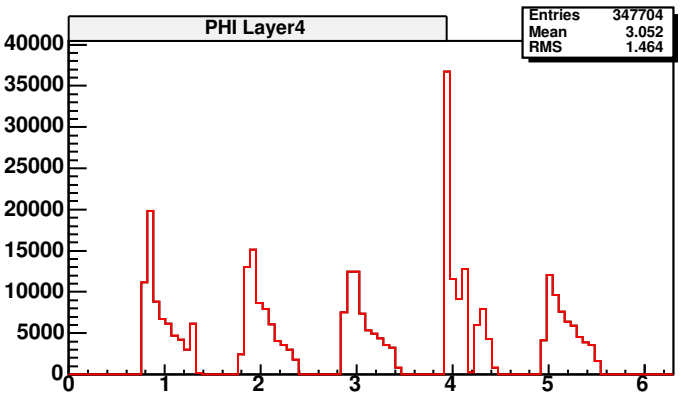


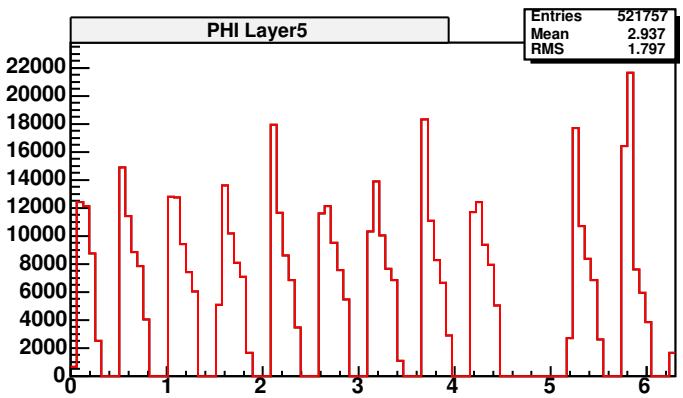
SmtClusters (ClustrBar5)

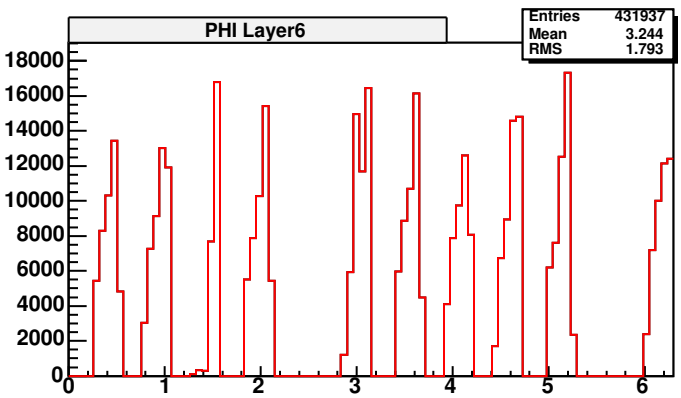


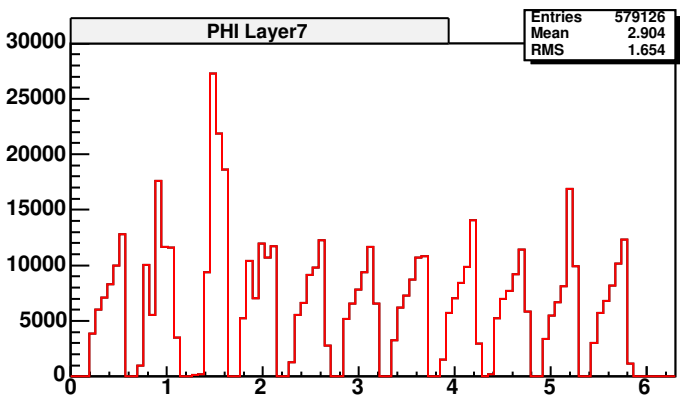


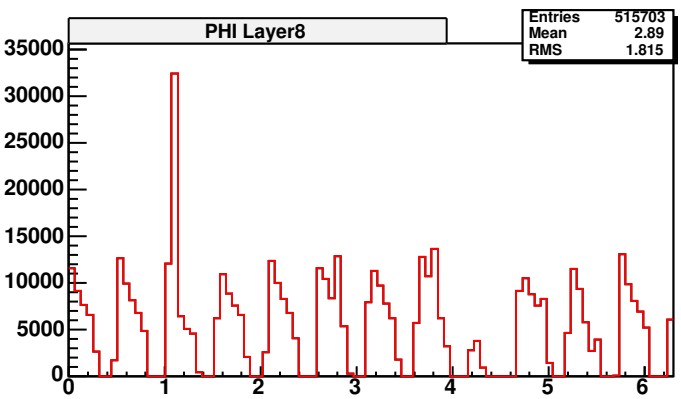




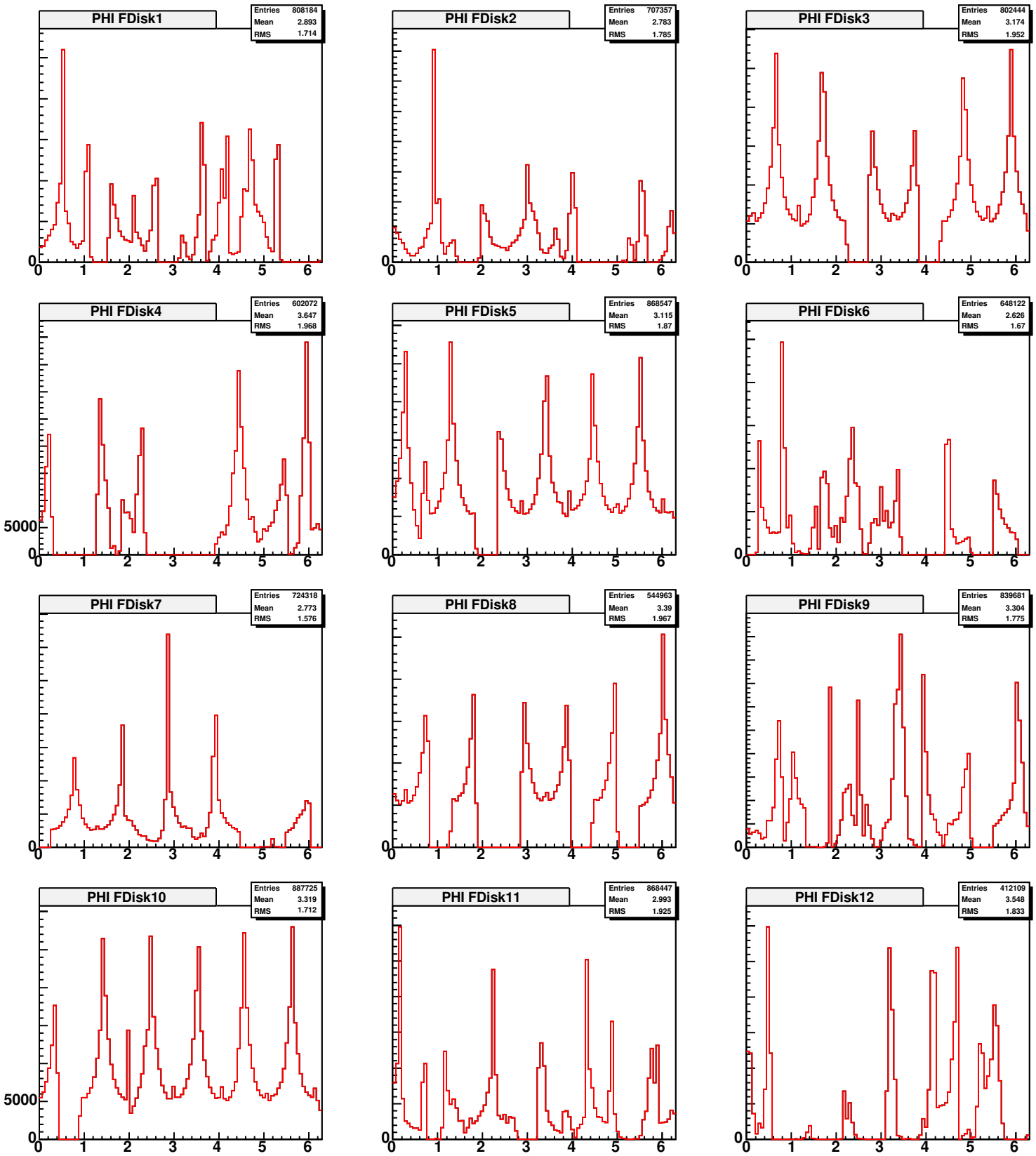




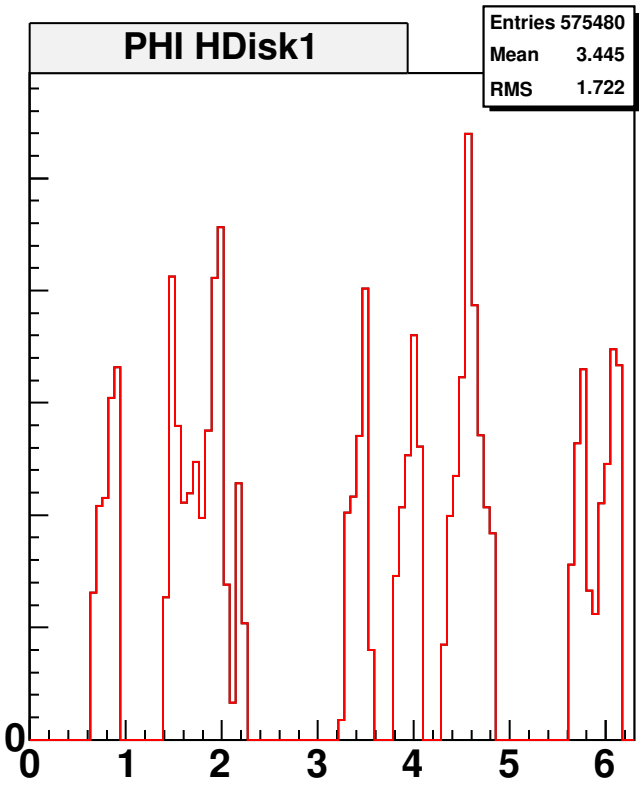


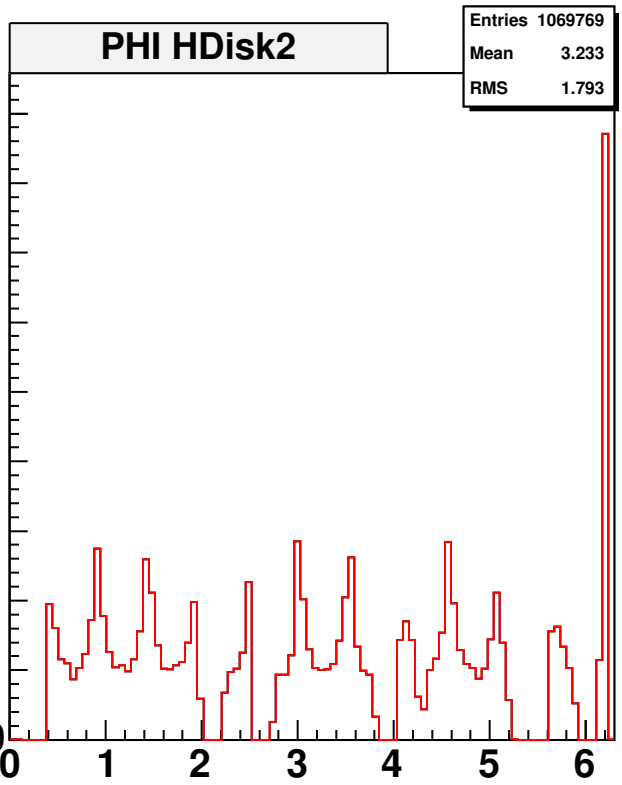


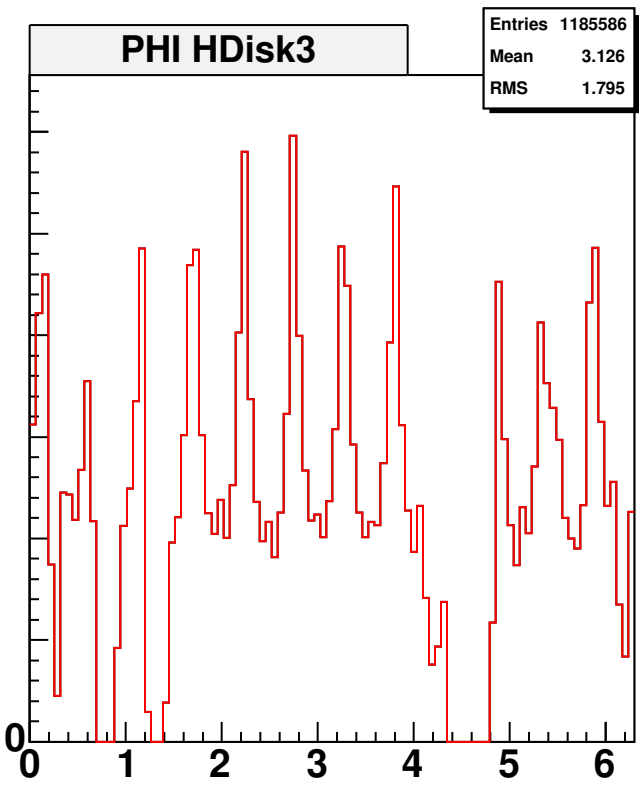
SmtClusters (ClustrBar6)

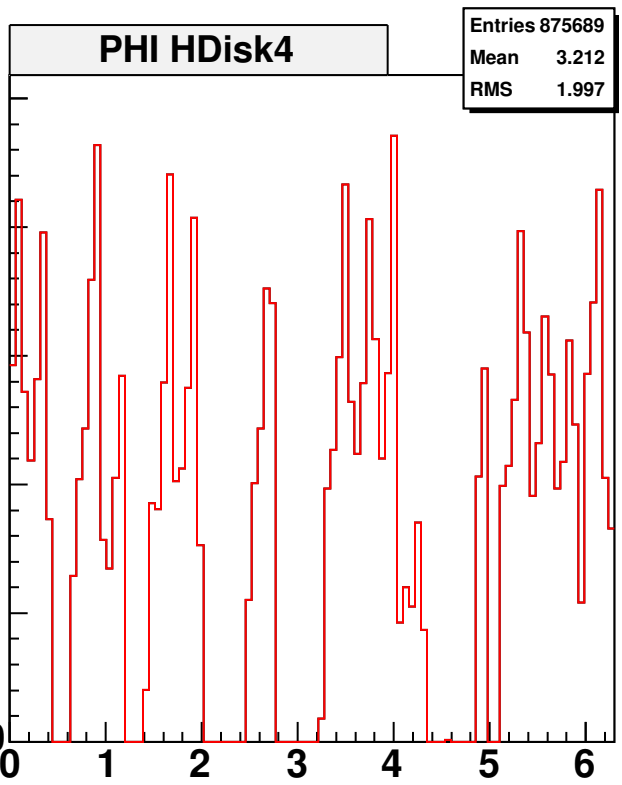


SmtClusters (FDiskClusters)

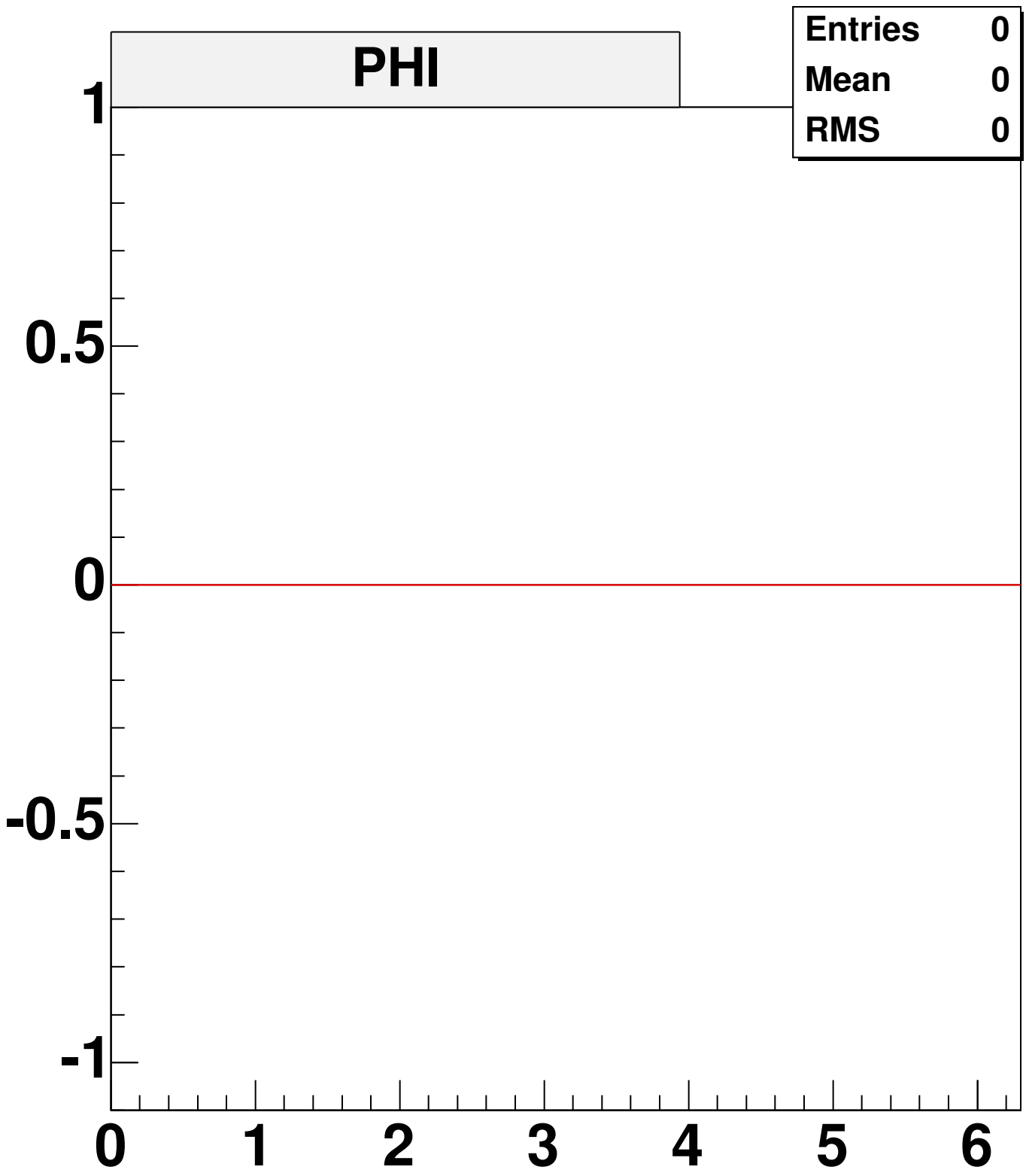


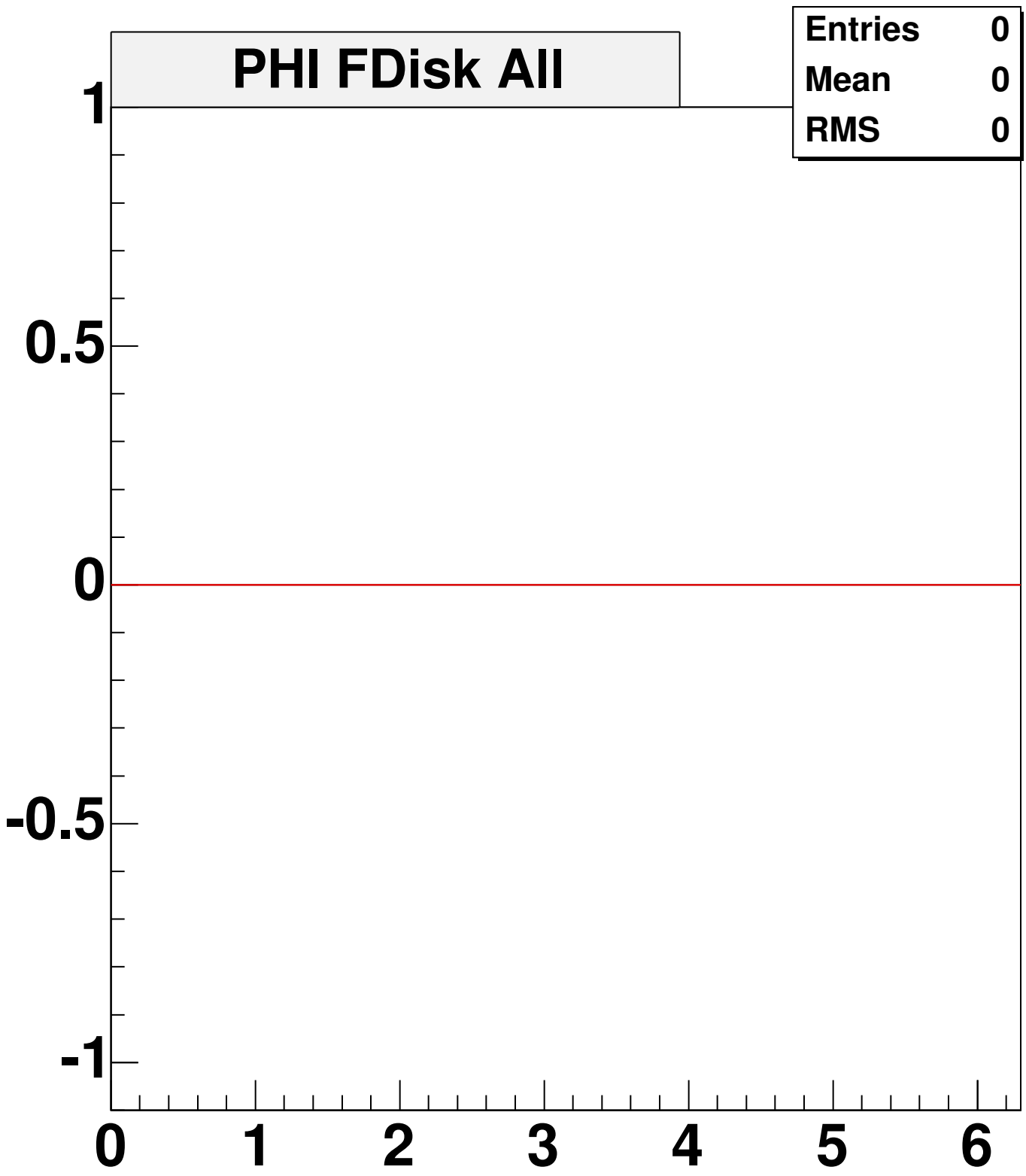






SmtClusters (HDiskClusters)


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
0
-0.5
-1
0
1
2
3
4
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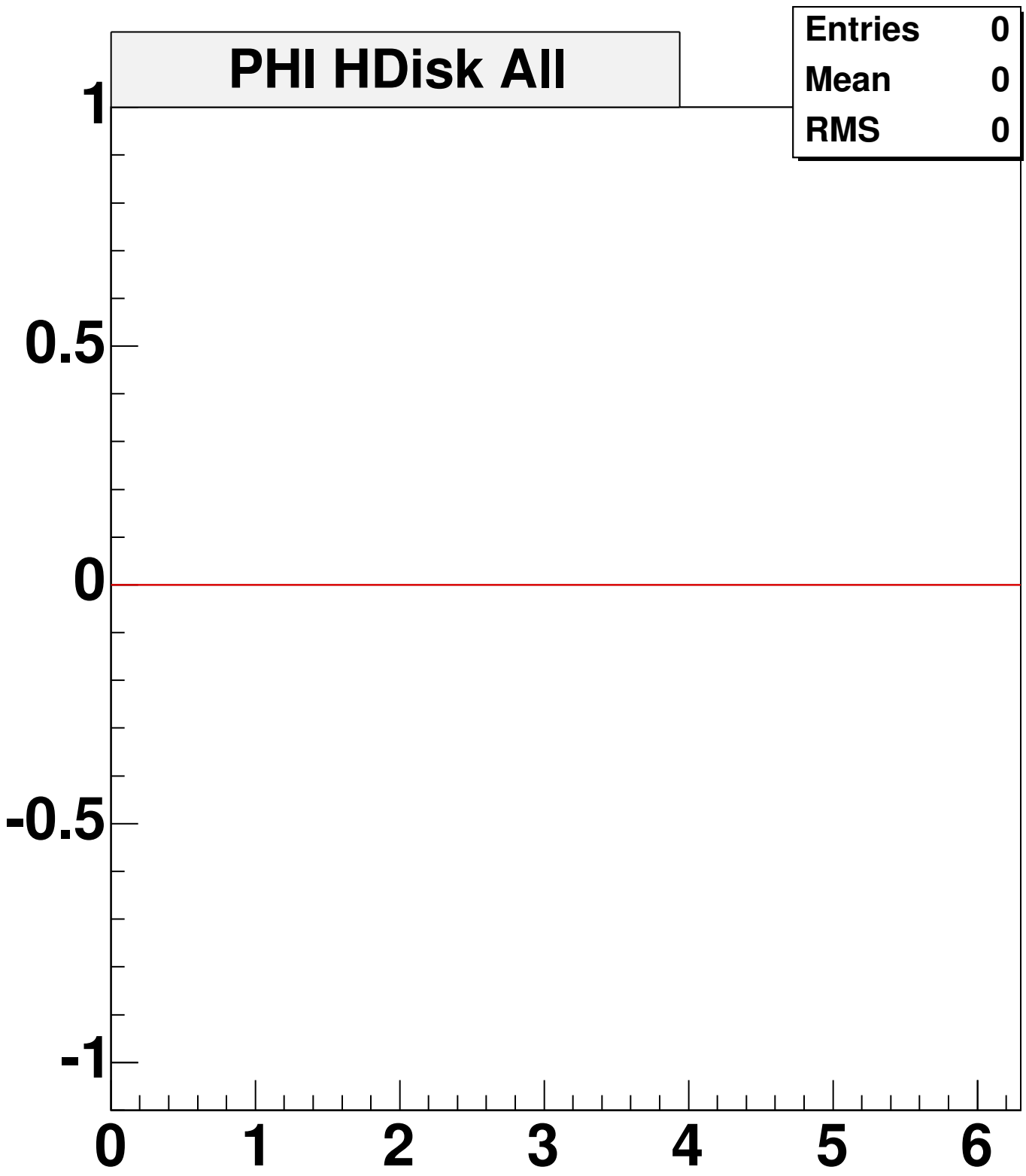
6
SmtClusters (allFDiskTClusters)


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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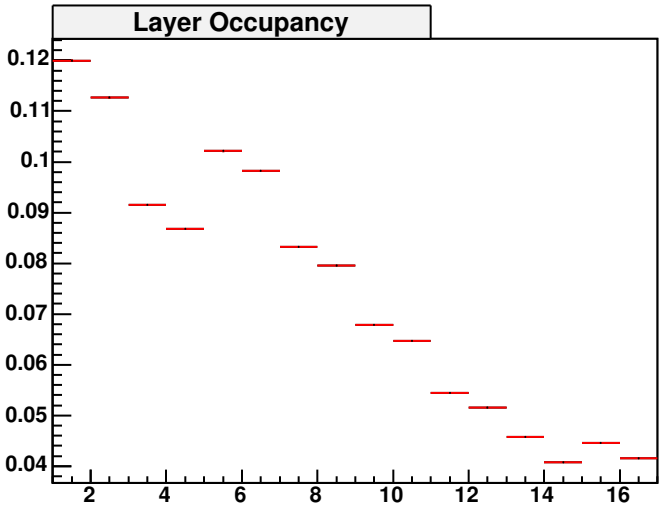
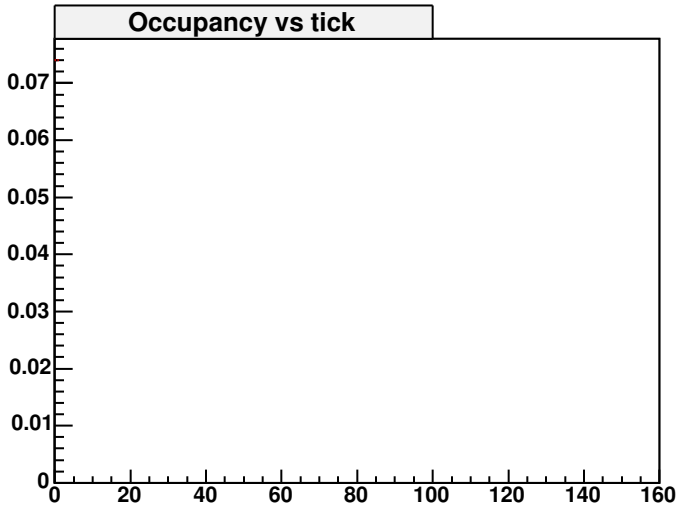
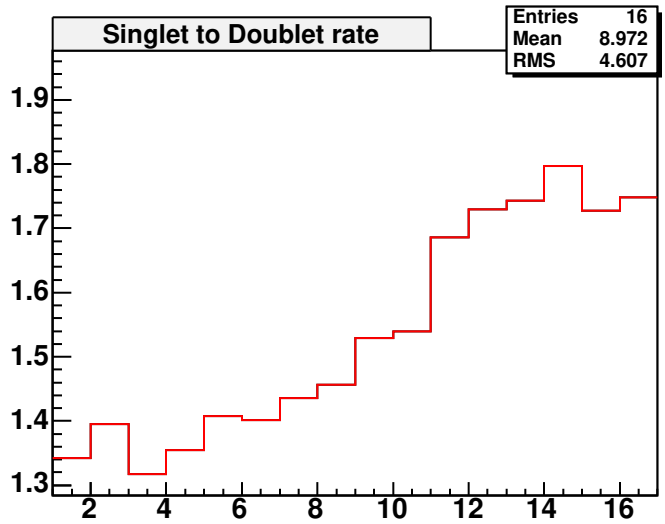
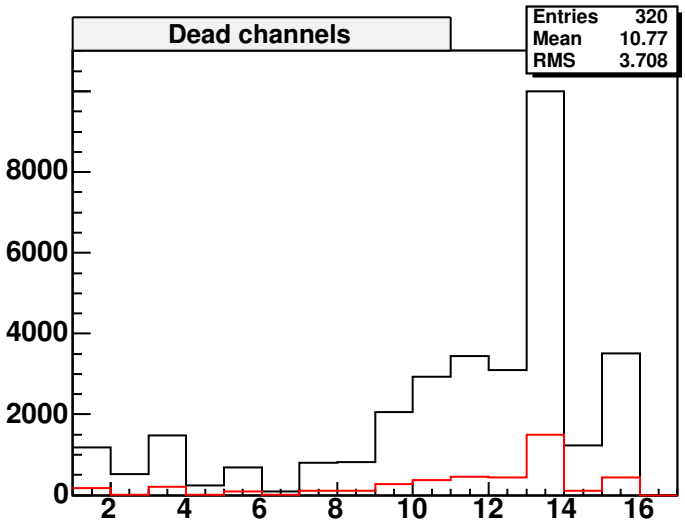
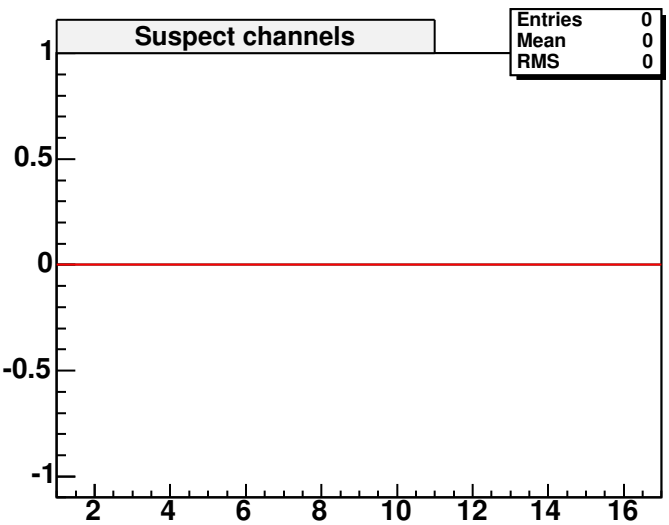
6
SmtClusters (allHDiskTClusters)

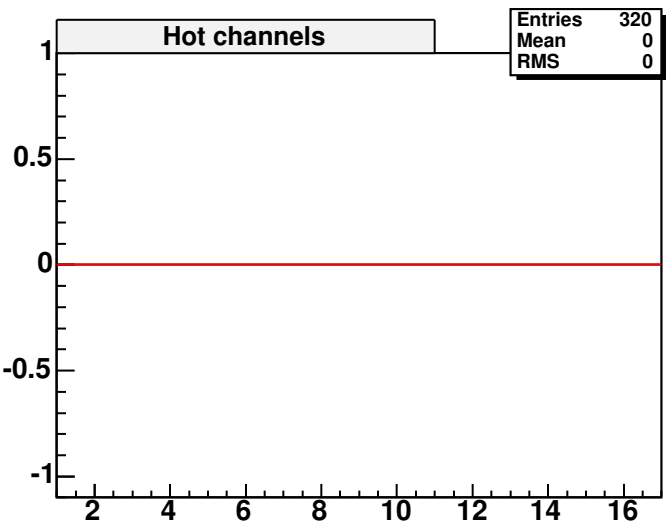




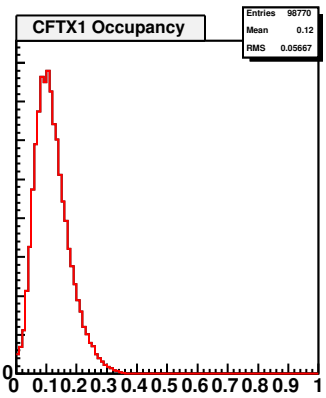


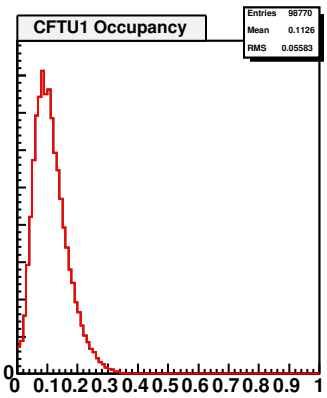


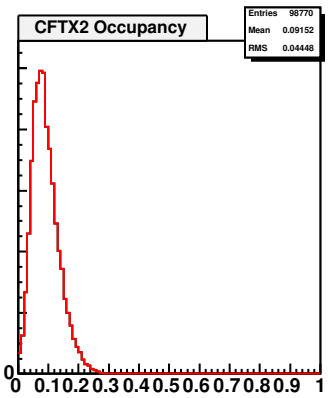


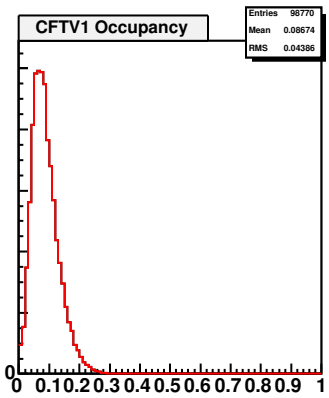


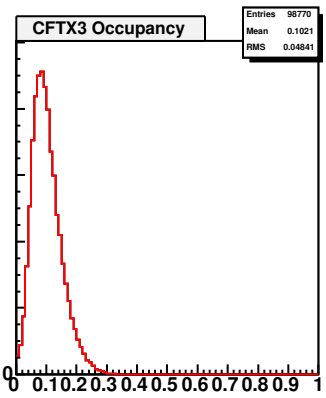
CFT Summary (All Clusters)

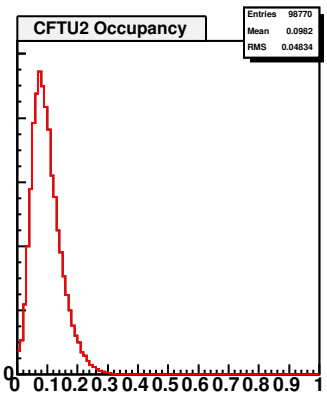


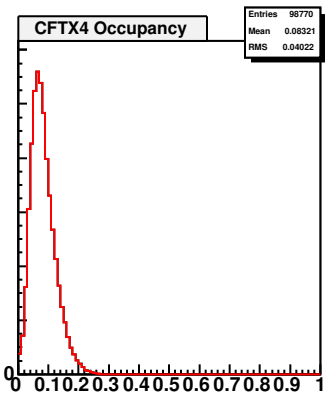


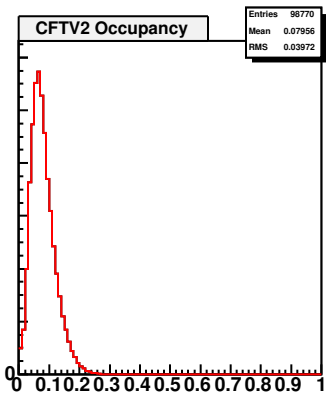


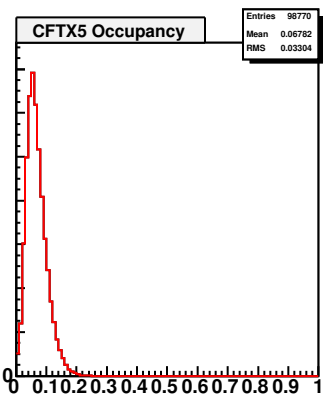


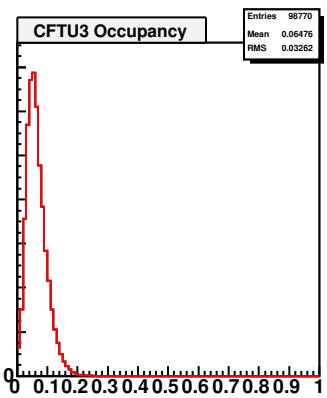


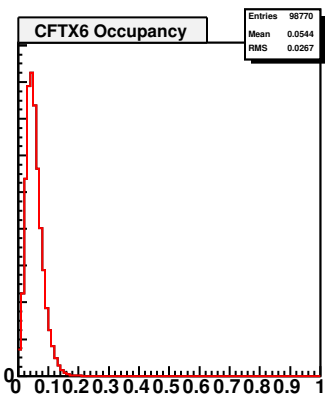


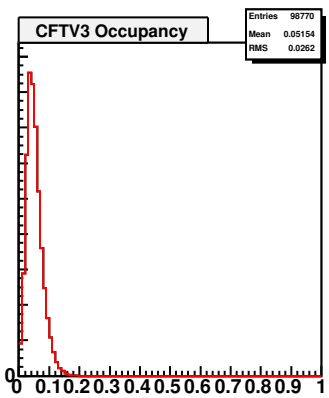


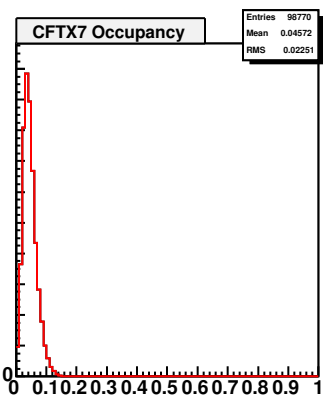


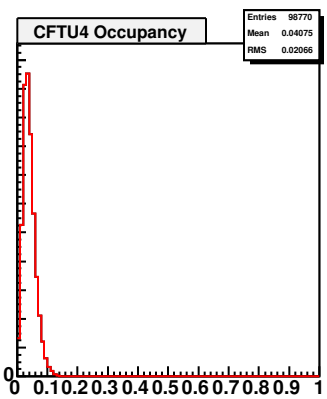


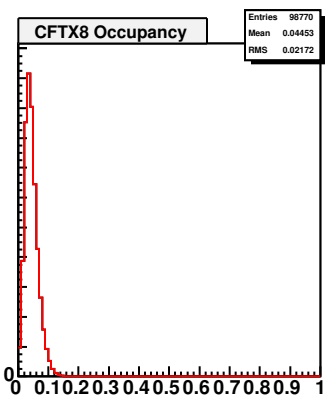


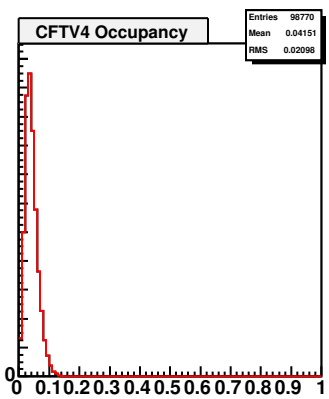




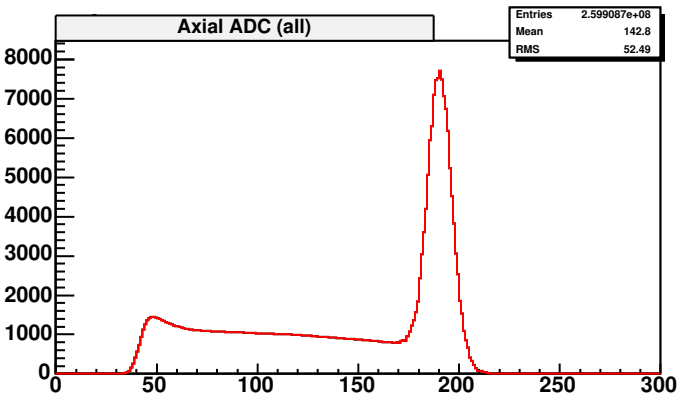


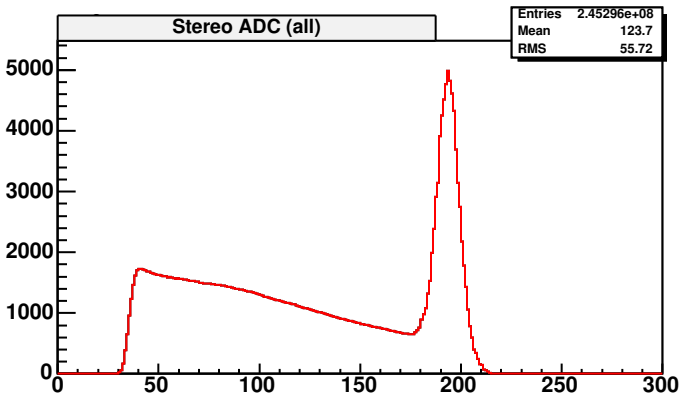


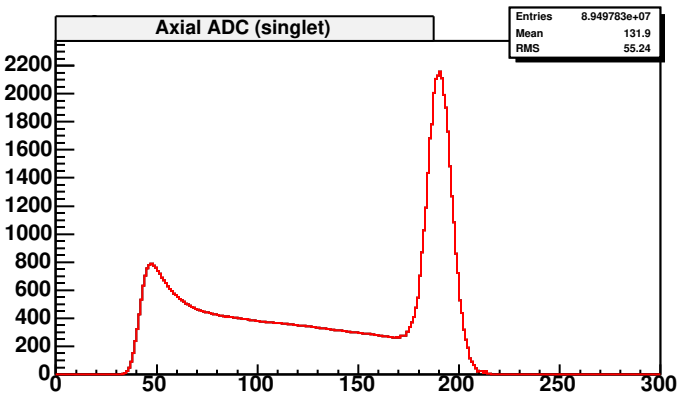


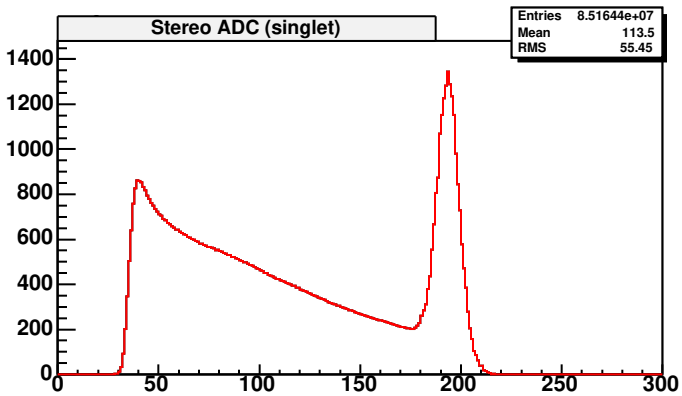


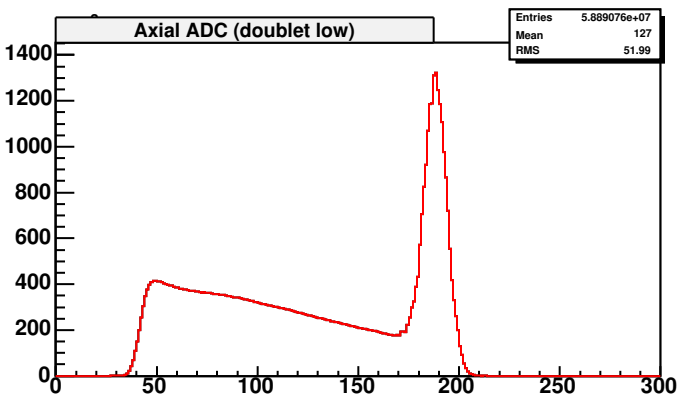
CFT Occupancy (All Clusters)

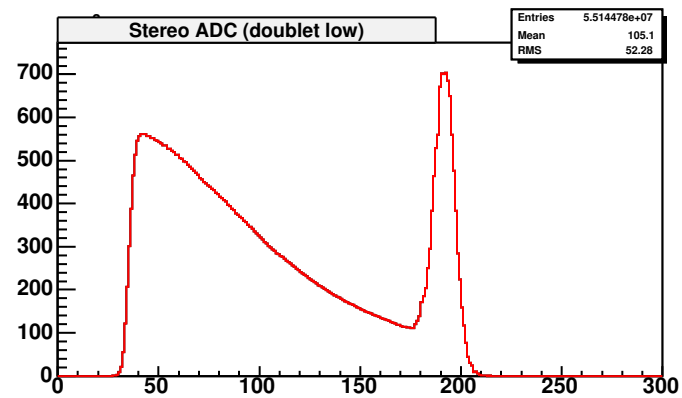


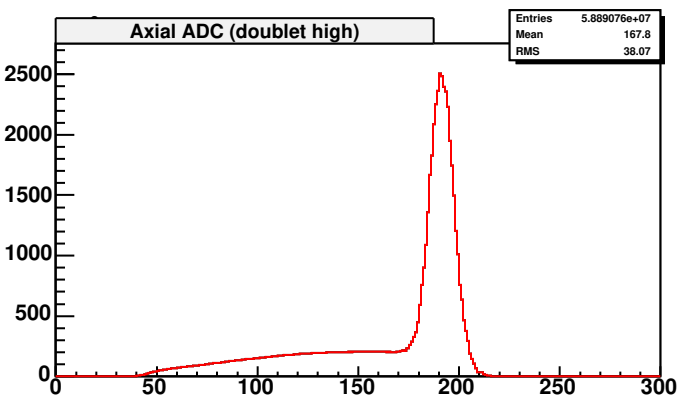


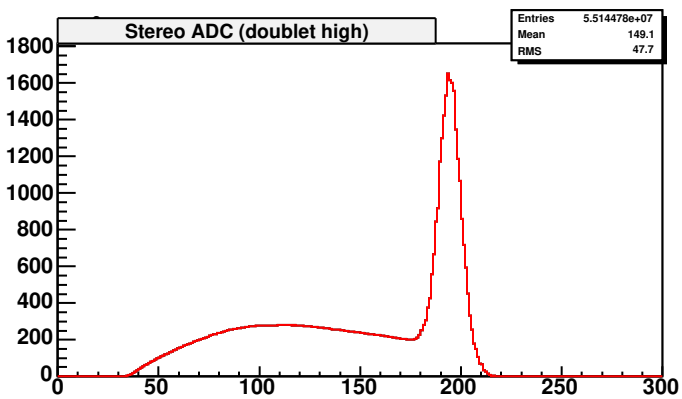




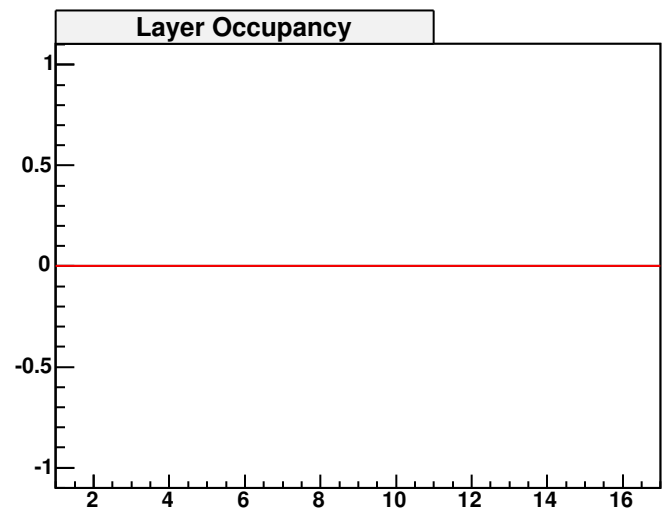


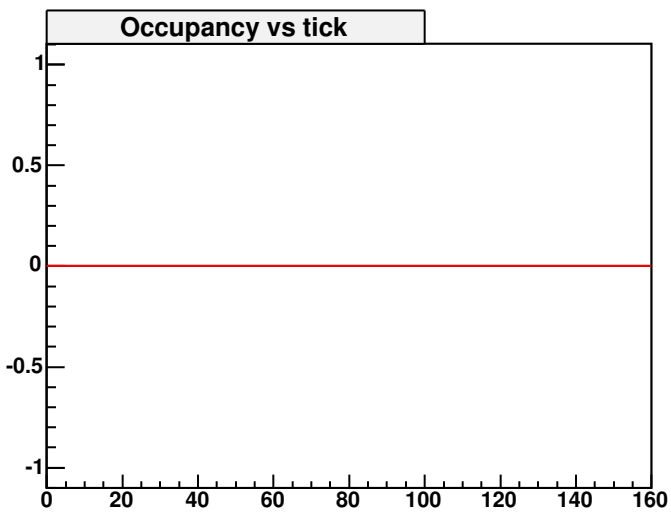


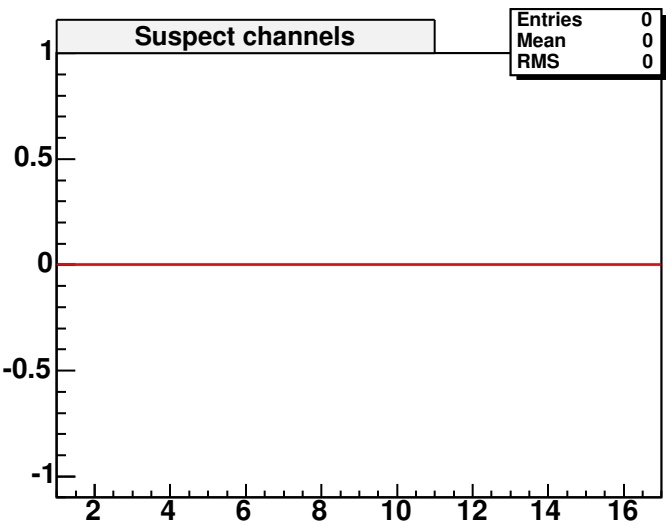


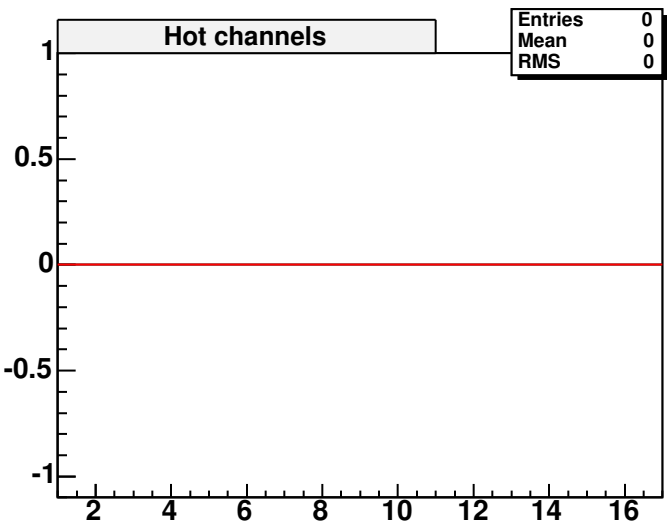


CFT ADC Summary (All Clusters)

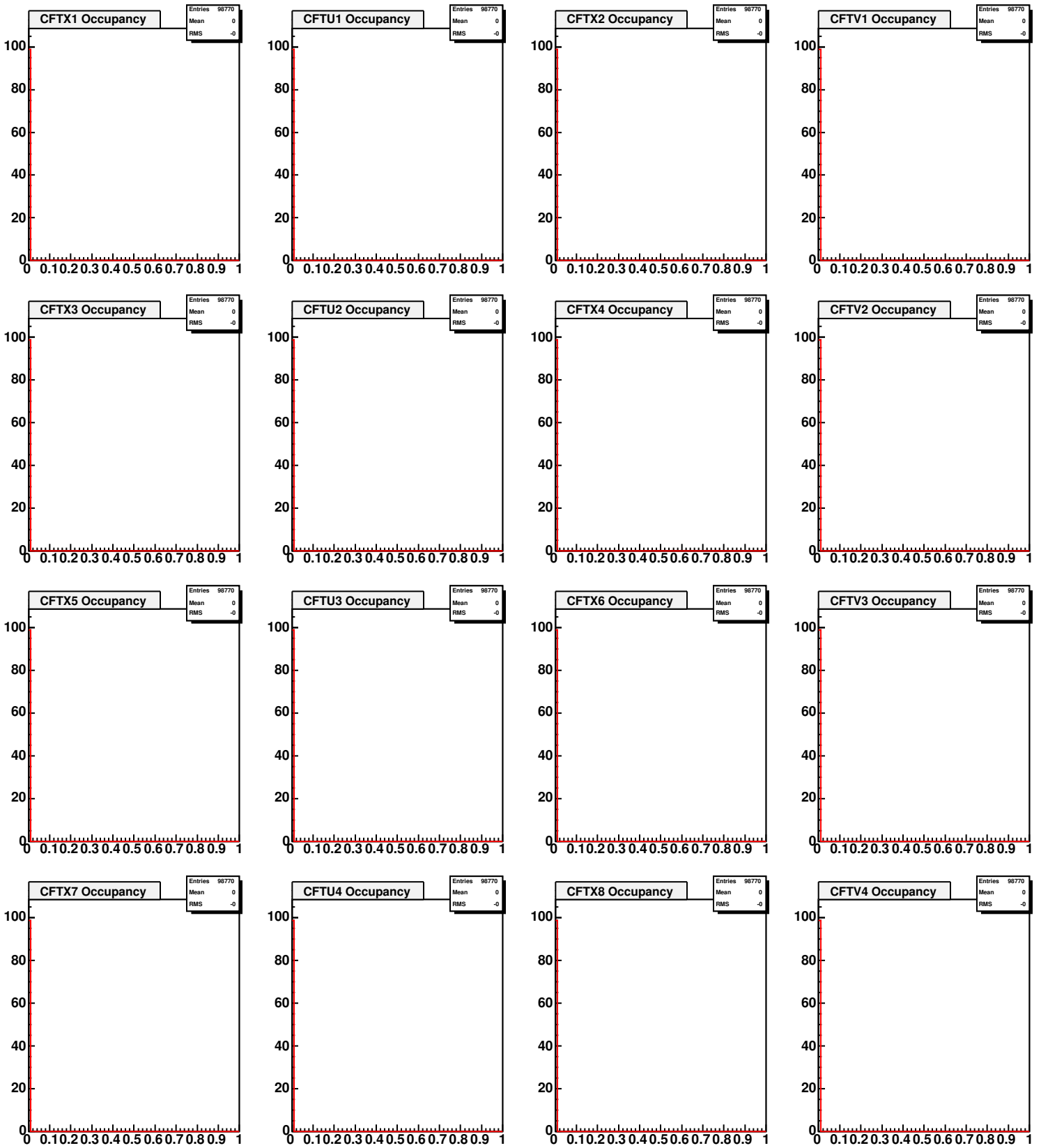




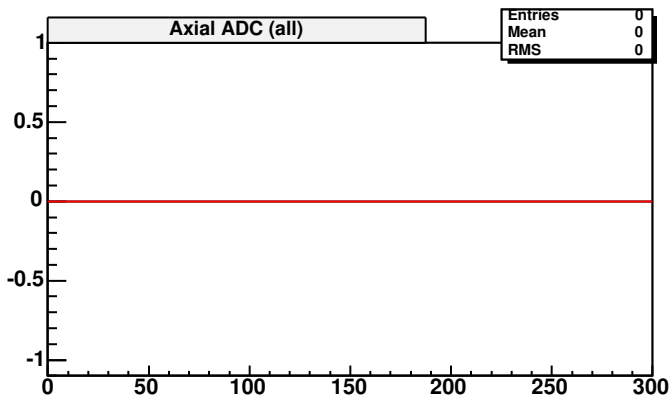


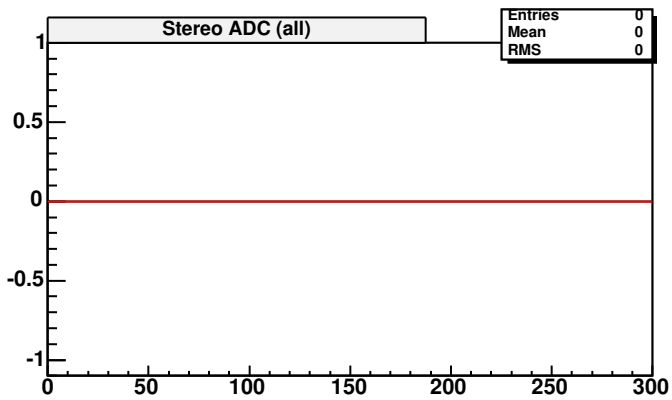


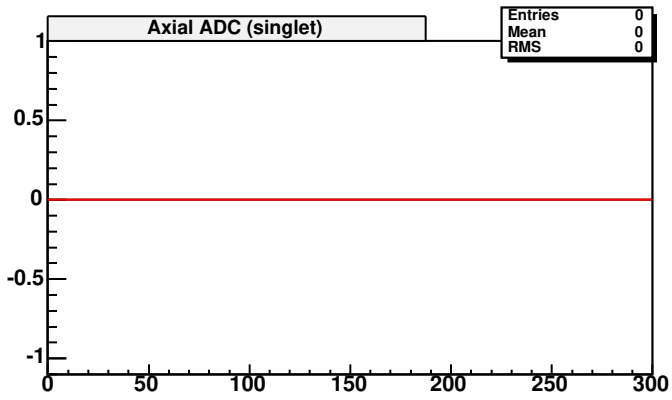
CFT Summary (Clusters on tracks)

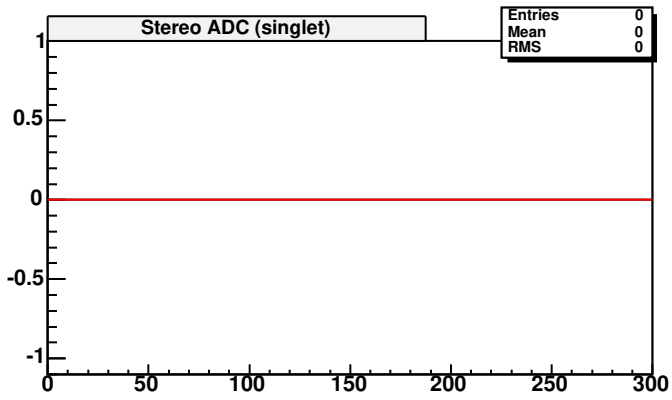


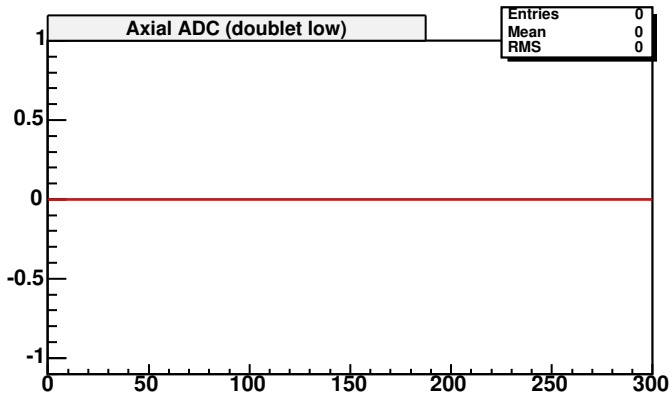
CFT Occupancy (Clusters on tracks)

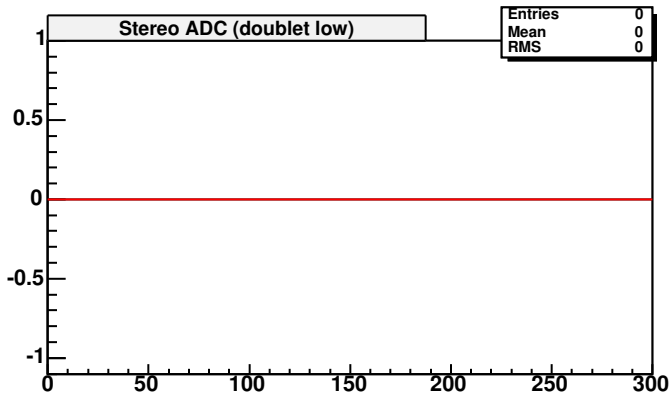


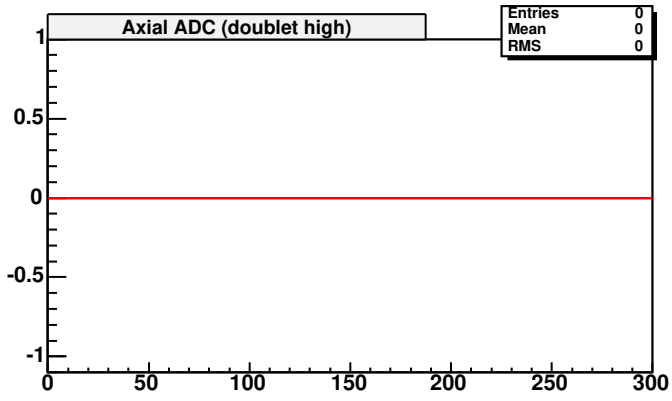


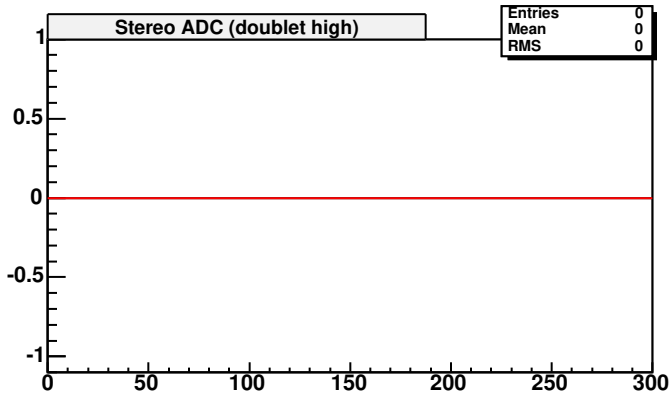




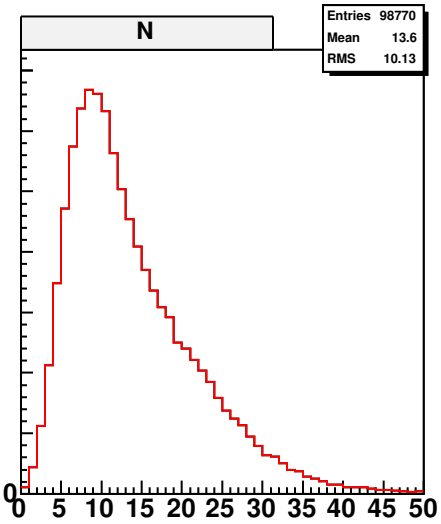


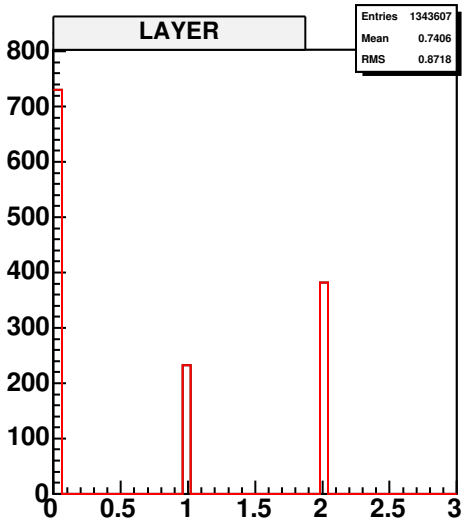


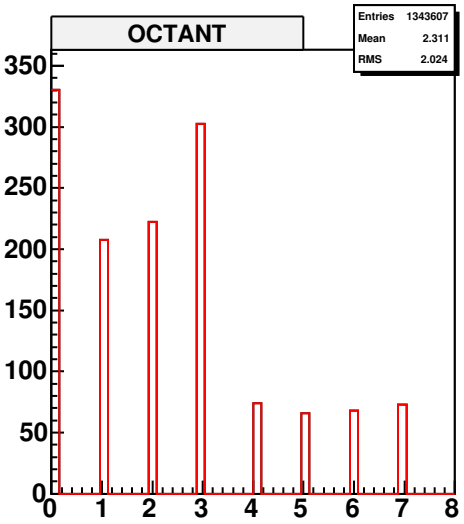


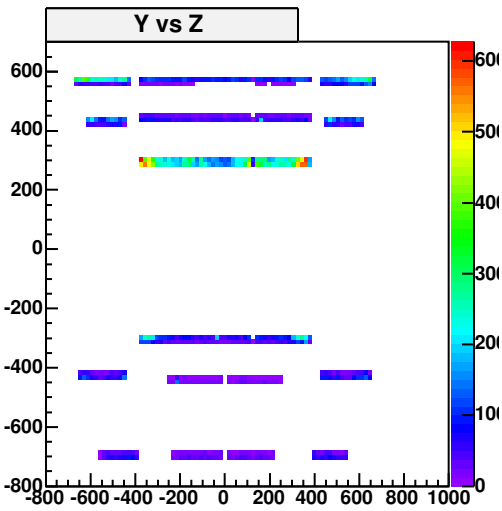


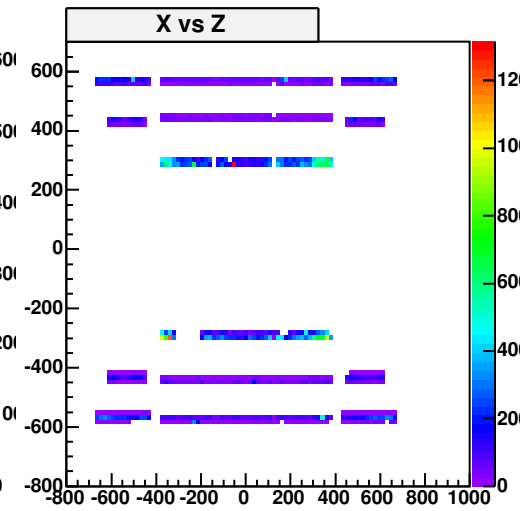
CFT ADC Summary (Clusters on tracks)

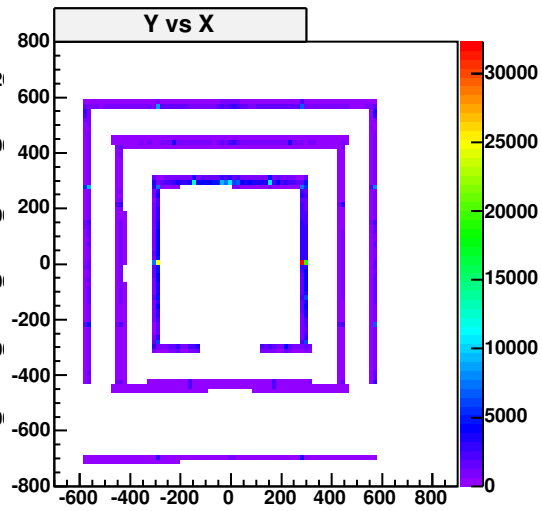

N
Entries 98770
Mean 13.6
RMS 10.13

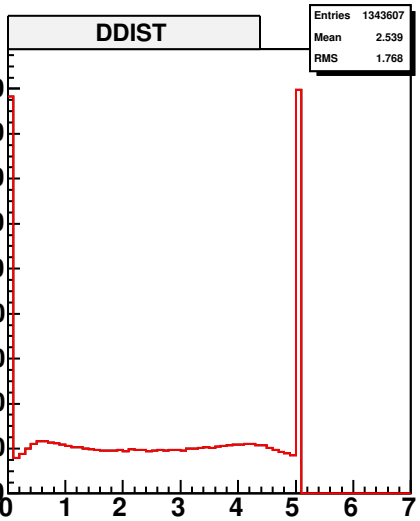

LAYER
Entries 1343607
Mean 0.7406
RMS 0.8718

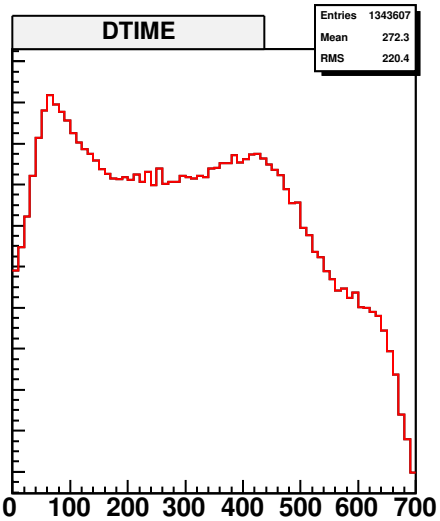

OCTANT
Entries 1343607
Mean 2.311
RMS 2.024


Y vs Z

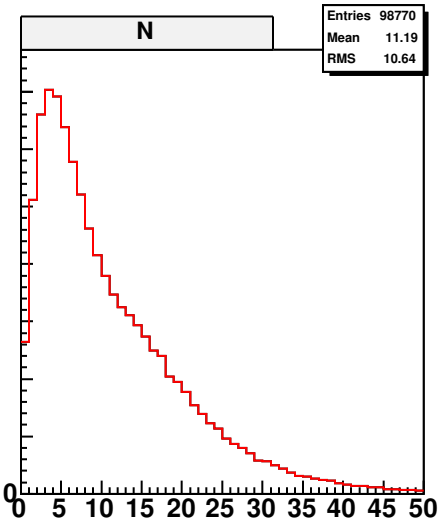

X vs Z

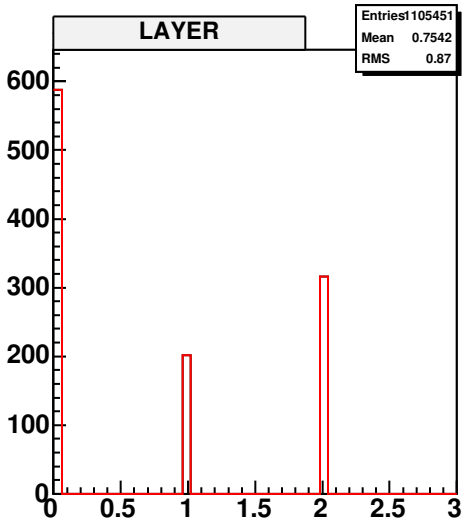

Y vs X

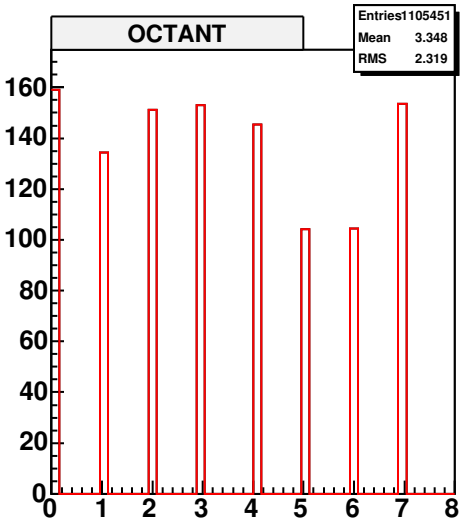

DDIST
Entries 1343607
Mean 2.539
RMS 1.768

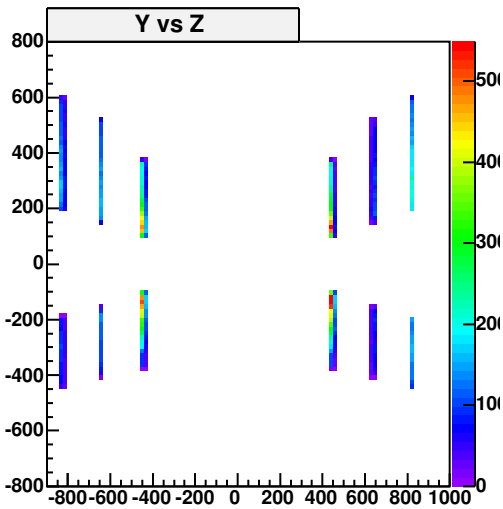

DTIME
Entries 1343607
Mean 272.3
RMS 220.4

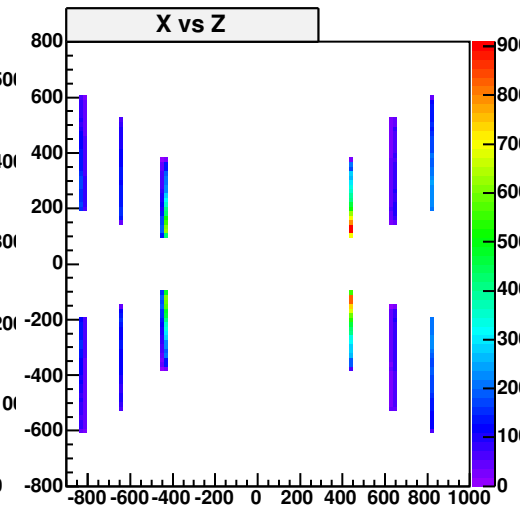
MuonPDT (All)

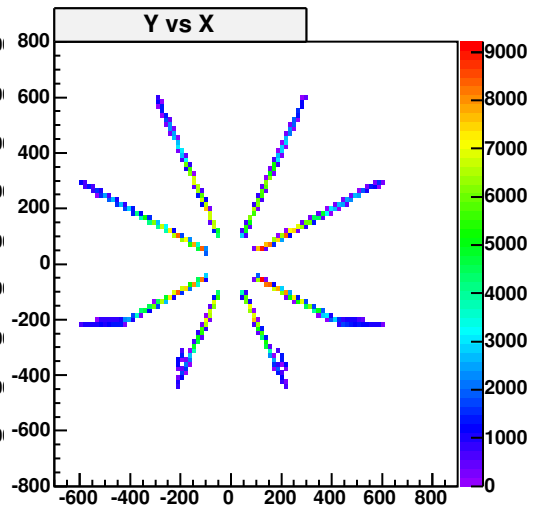

N
Entries 98770
Mean 11.19
RMS 10.64

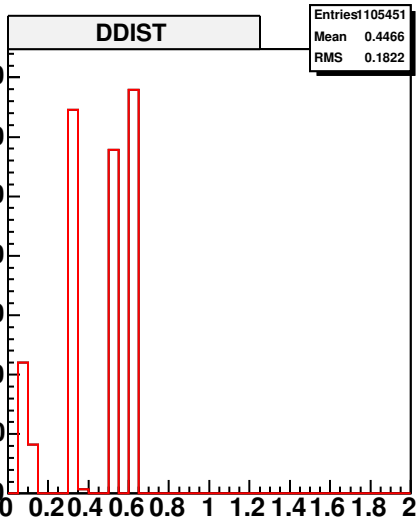

LAYER
Entries 1105451
Mean 0.7542
RMS 0.87

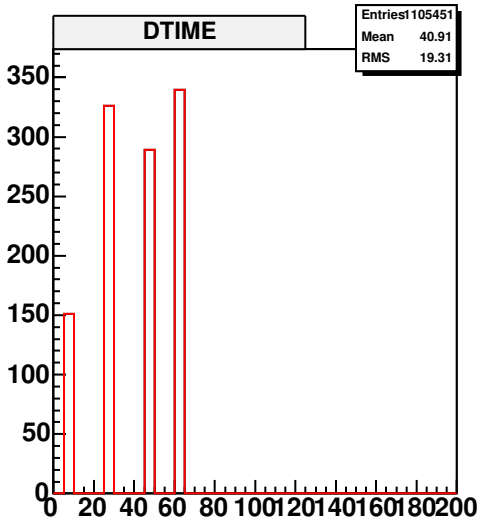

OCTANT
Entries 1105451
Mean 3.348
RMS 2.319


Y vs Z

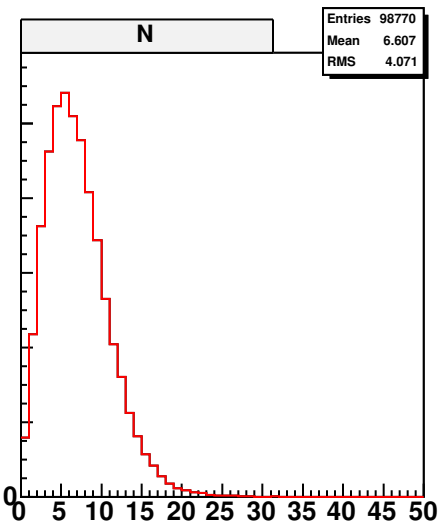

X vs Z

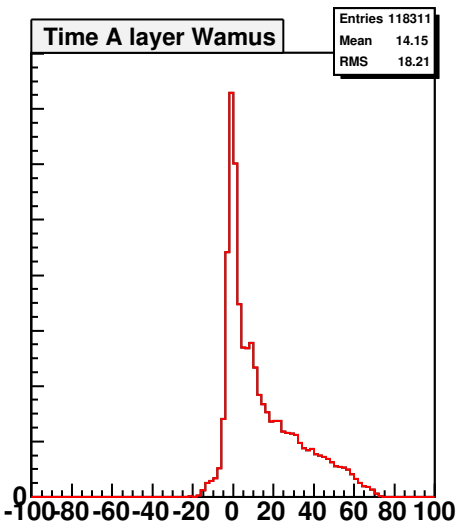

Y vs X

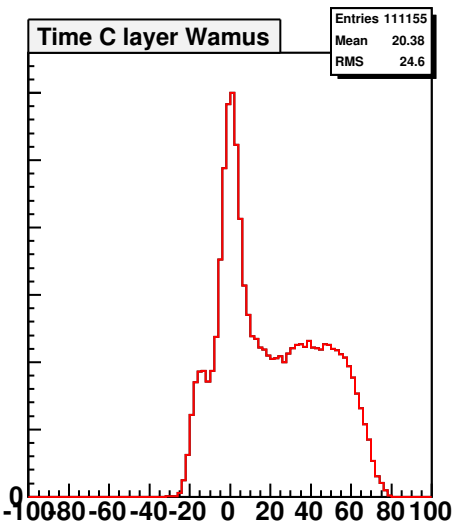

DDIST
Entries 1105451
Mean 0.4466
RMS 0.1822

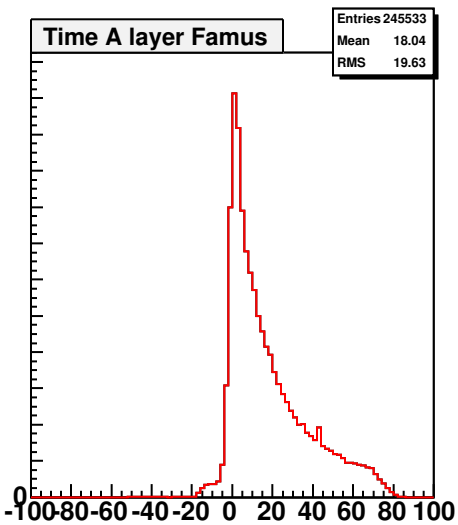

DTIME
Entries 1105451
Mean 40.91
RMS 19.31

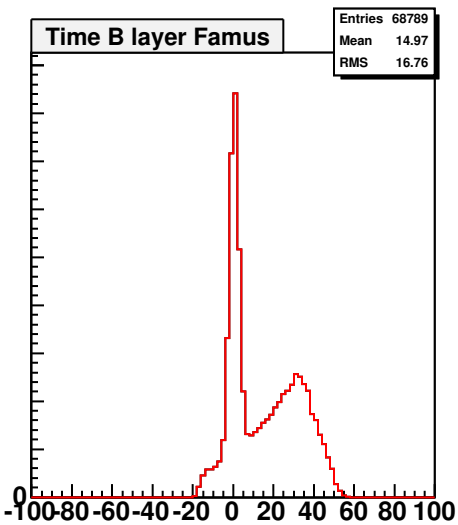
MuonMDT (All)

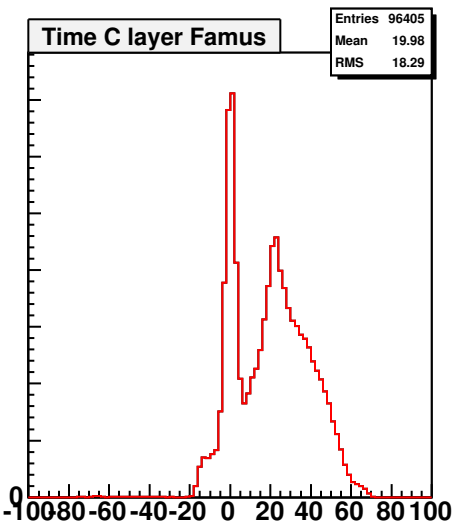

N
Entries 98770
Mean 6.607
RMS 4.071

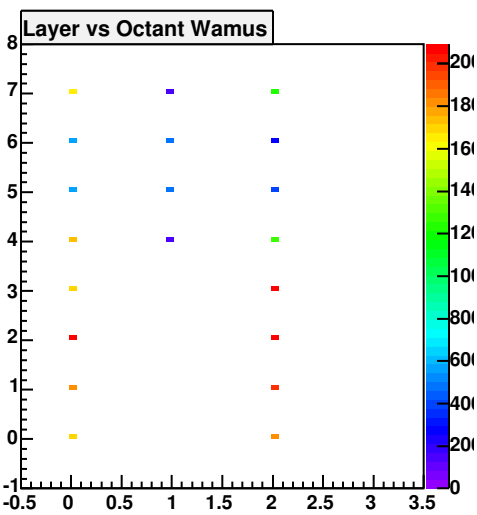

Time A layer Wamus
Entries 118311
Mean 14.15
RMS 18.21

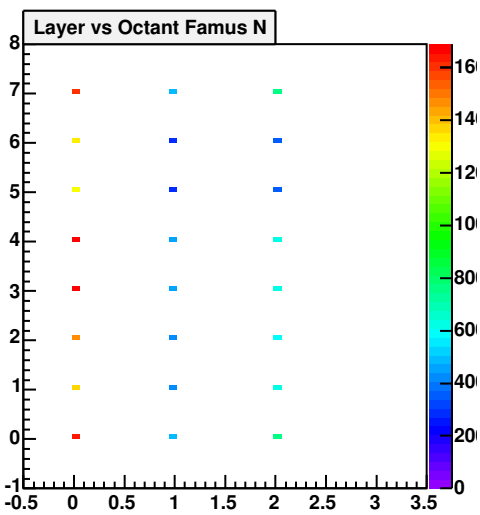

Time C layer Wamus
Entries 111155
Mean 20.38
RMS 24.6

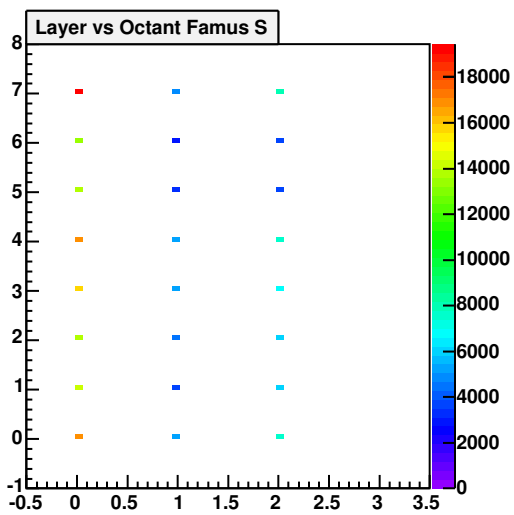

Time A layer Famus
Entries 245533
Mean 18.04
RMS 19.63


Time B layer Famus
Entries 68789
Mean 14.97
RMS 16.76

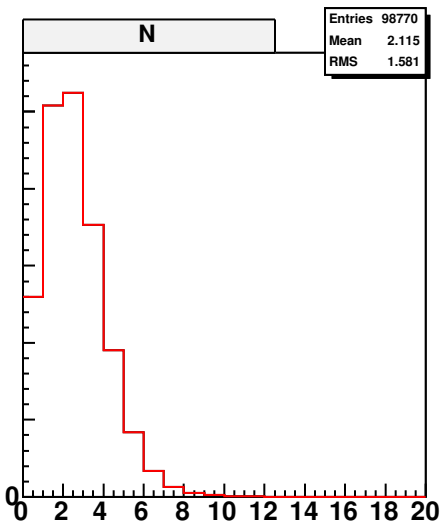

Time C layer Famus
Entries 96405
Mean 19.98
RMS 18.29

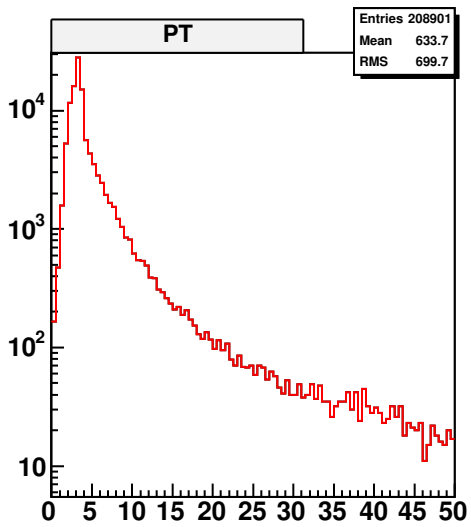

Layer vs Octant Wamus

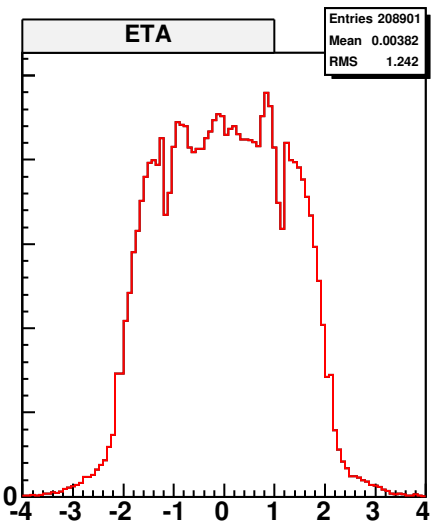

Layer vs Octant Famus N

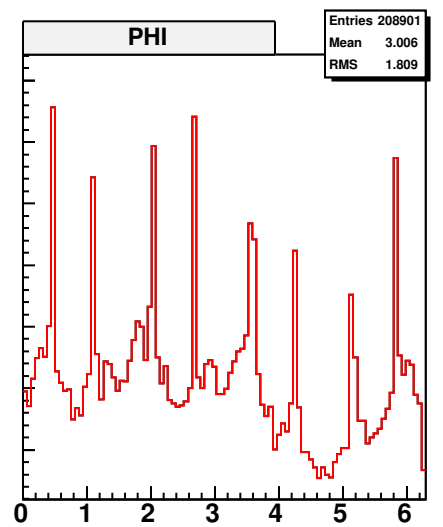

Layer vs Octant Famus S

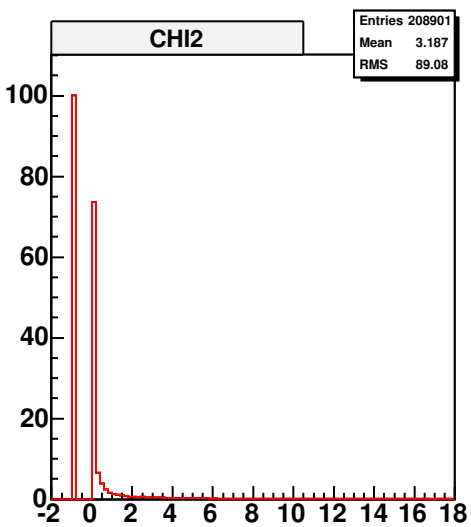
MuonMSC (All)

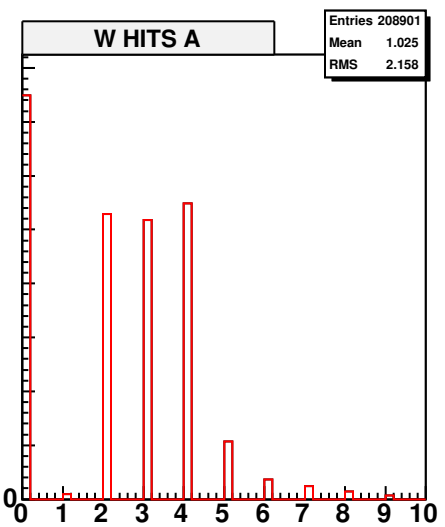


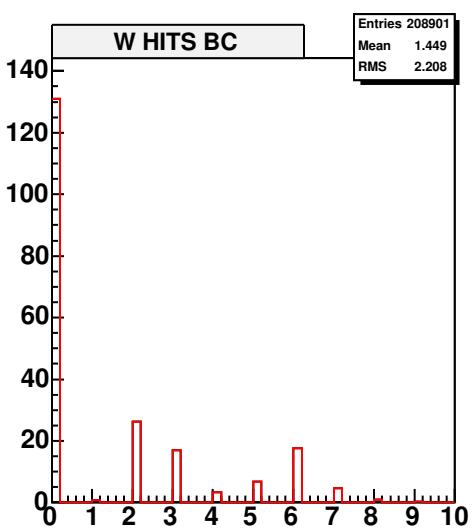


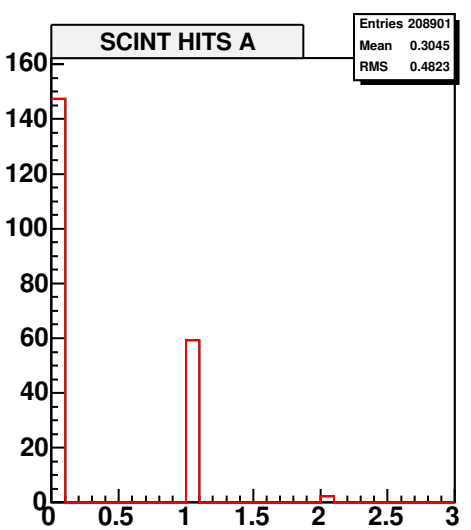


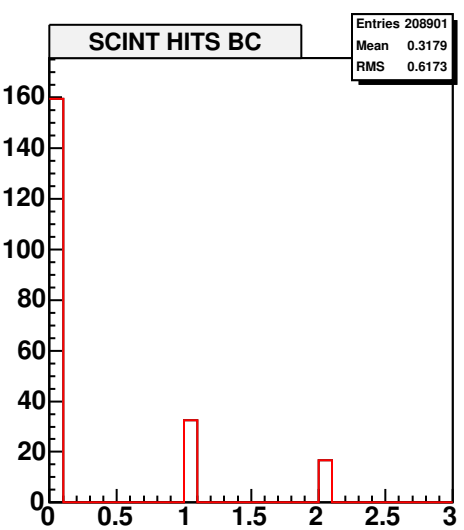




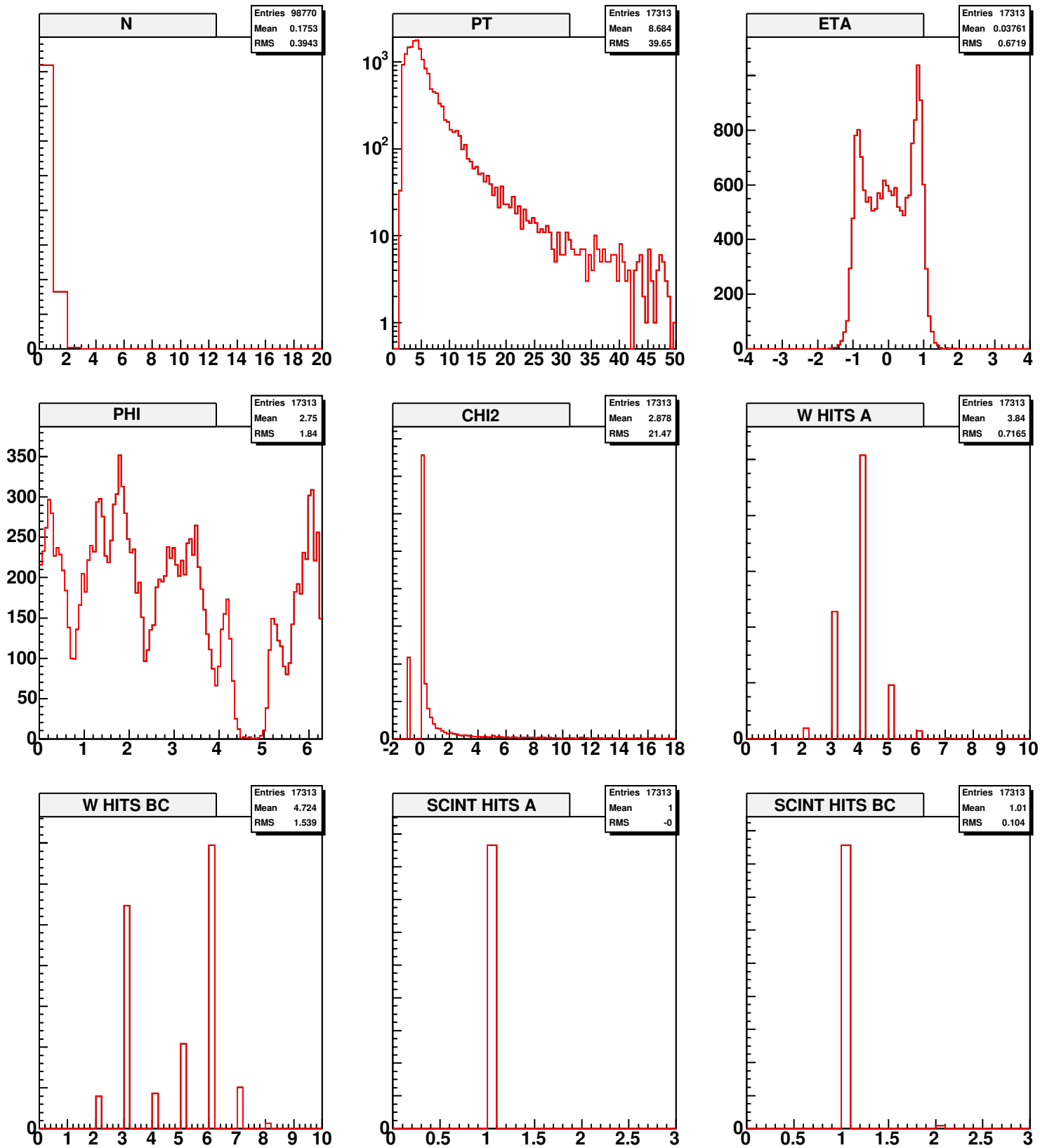




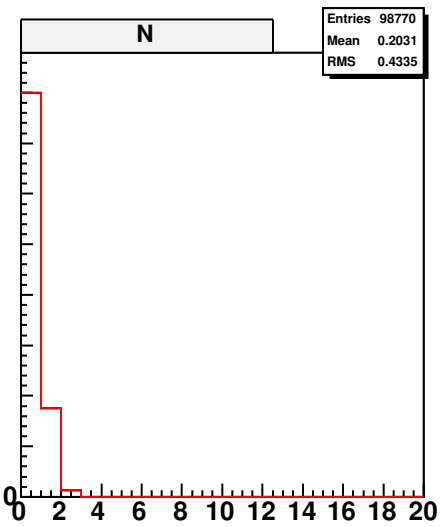


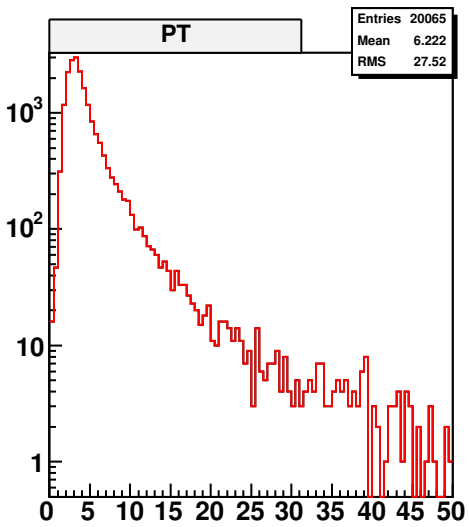


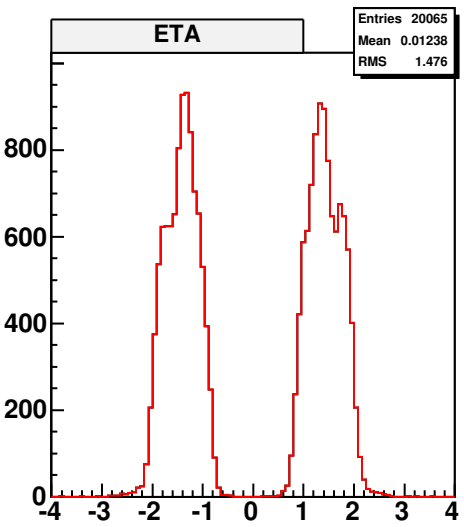
Muon Local Tracks (All)

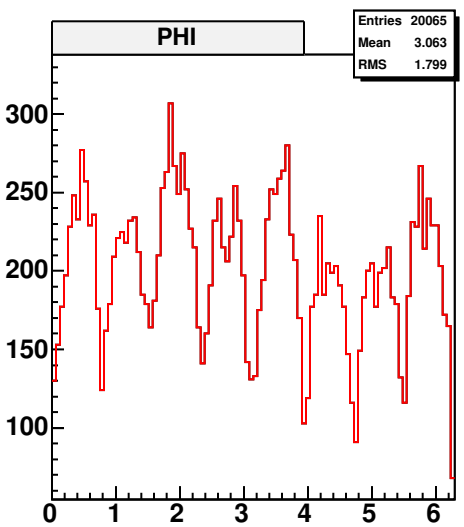


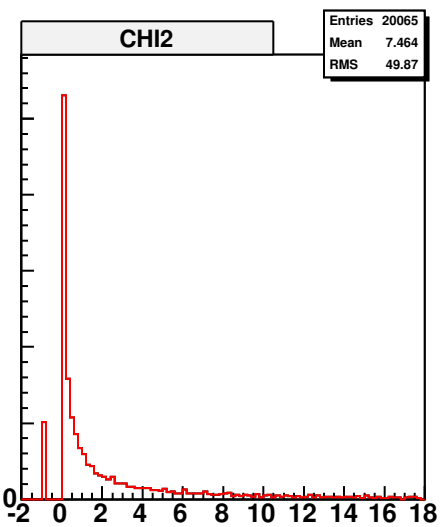
Muon Local Tracks (MediumWamus)

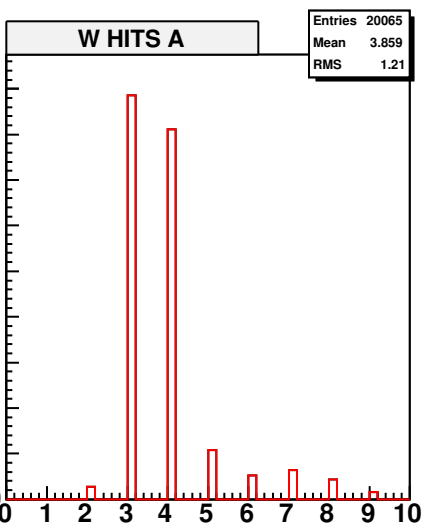


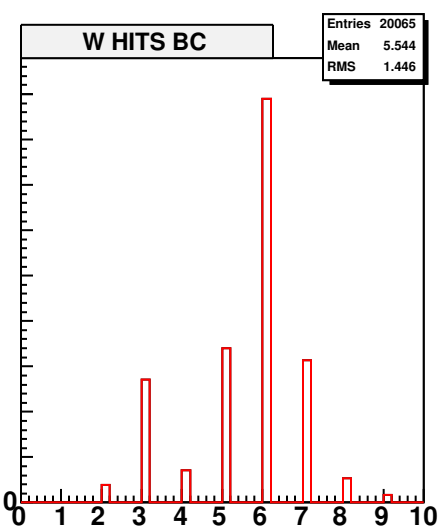


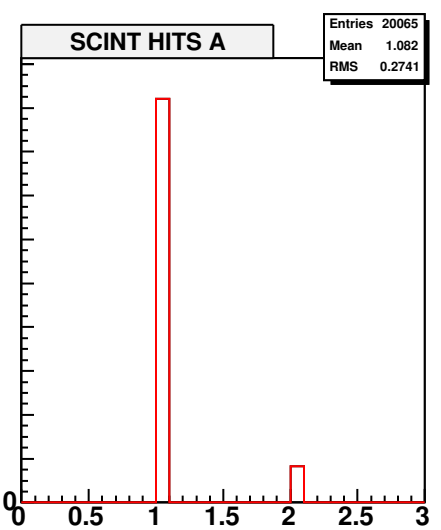


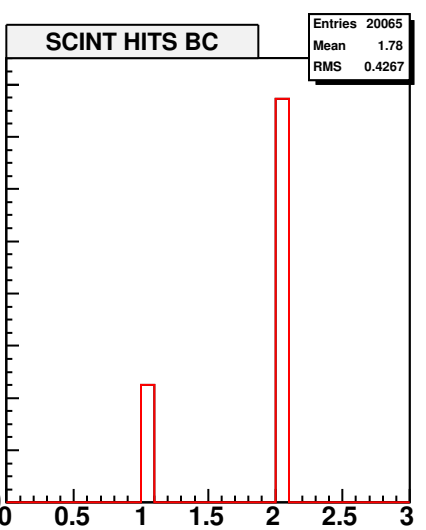




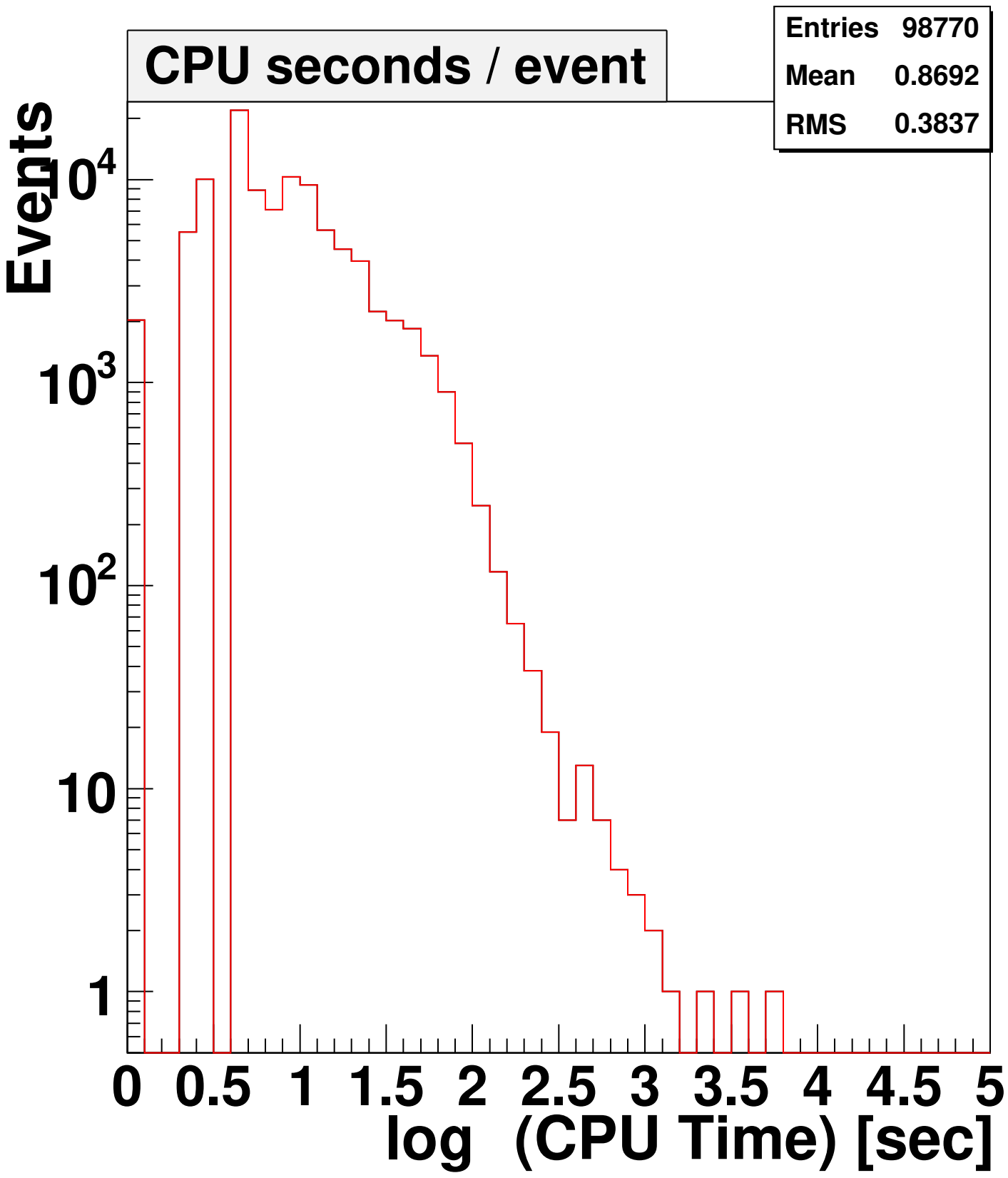








Muon Local Tracks (MediumFamus)



RECO Performance (Timing)