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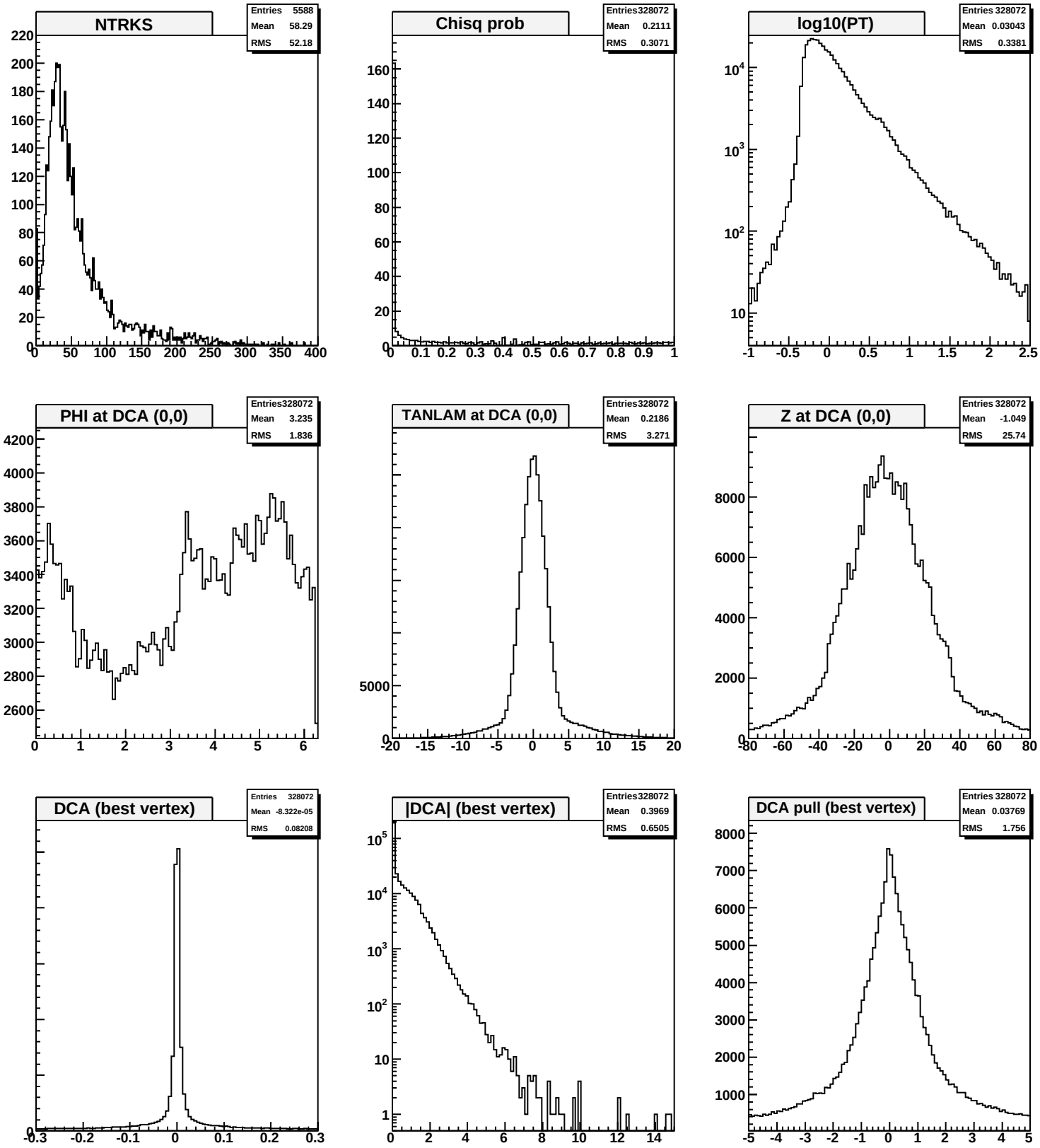
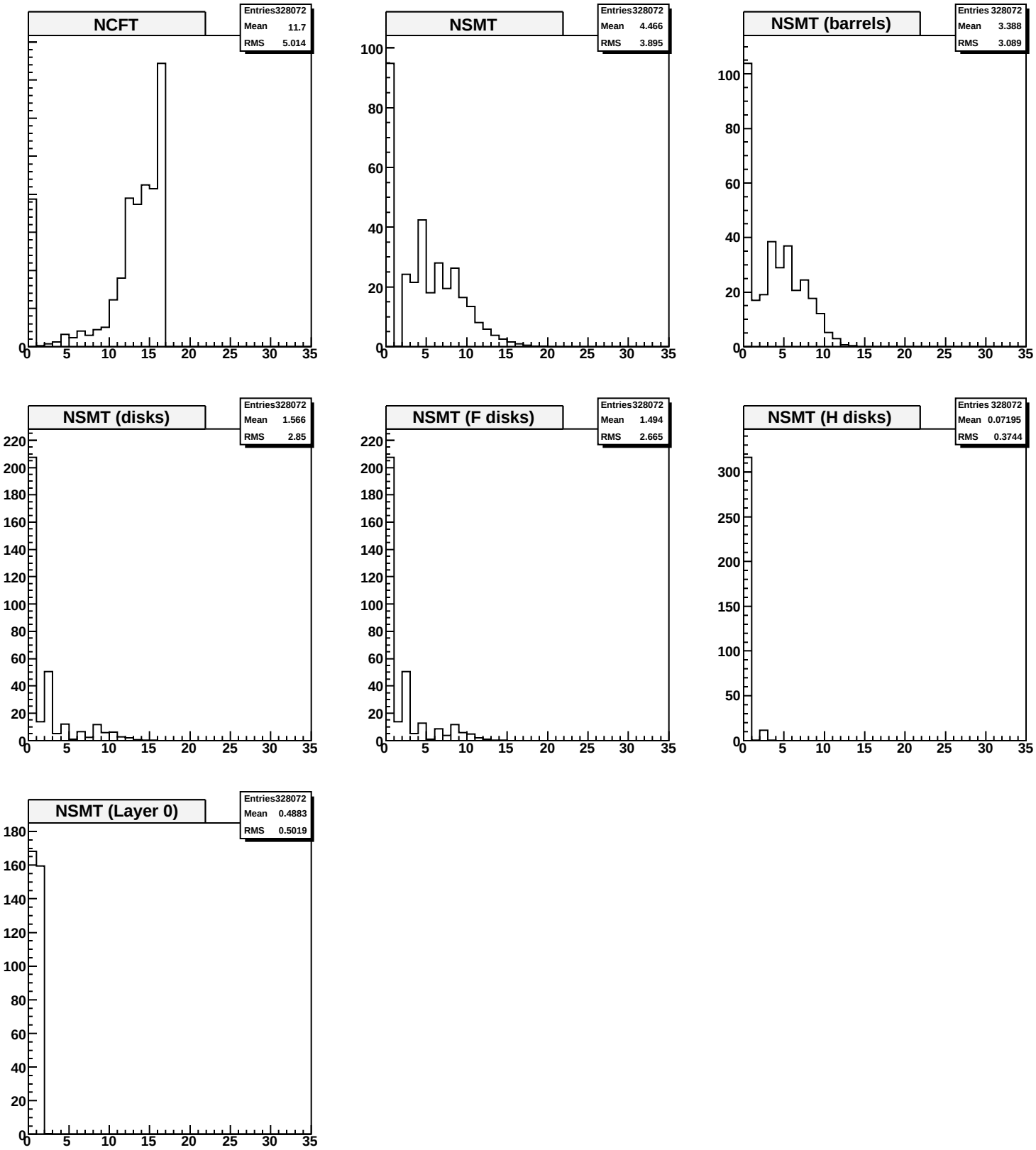
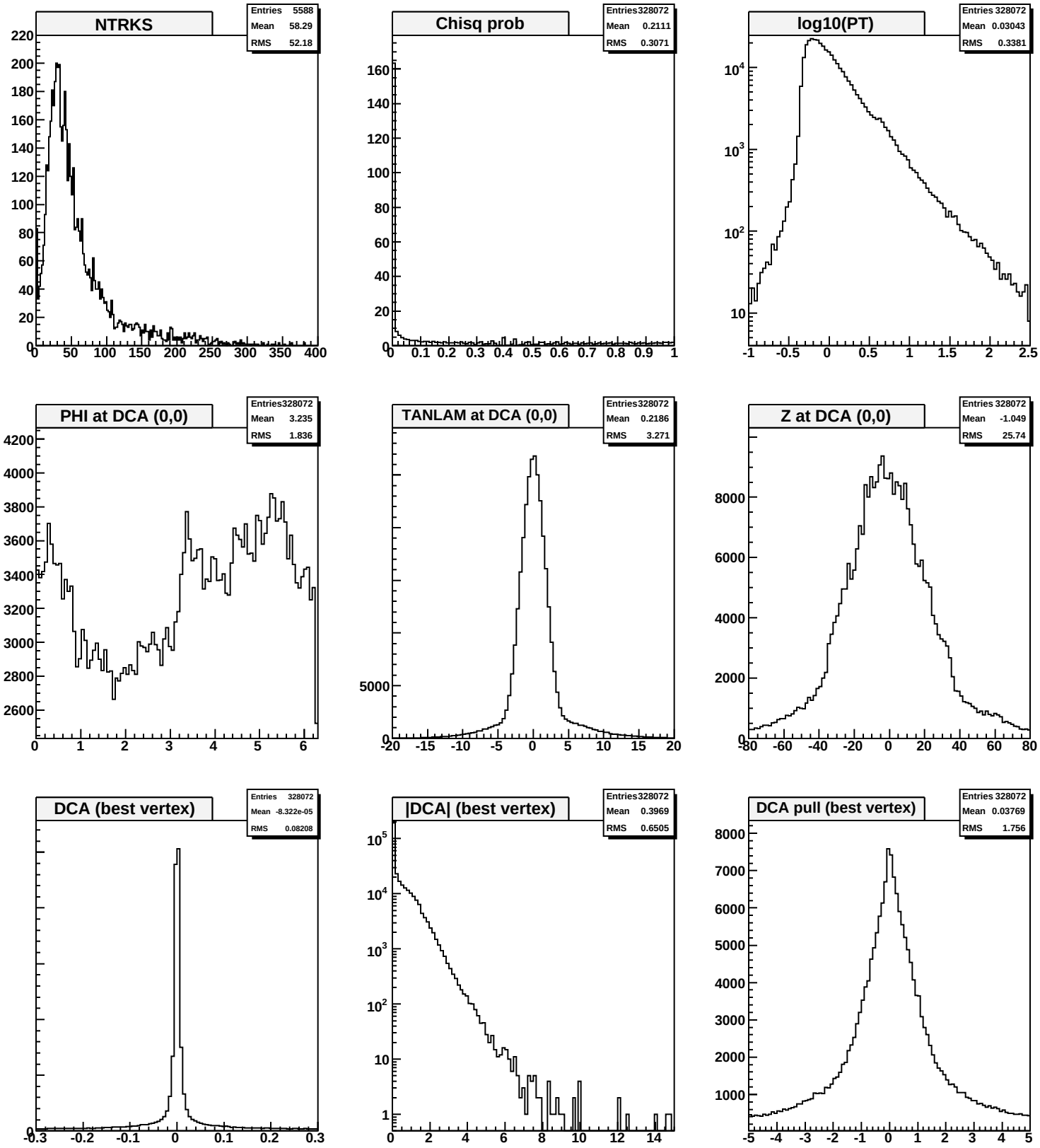
RecoCert_Plots (Index 2)


NTRKS
Entries 5588
Mean 58.29
RMS 52.18
Chisq prob
Entries 328072
Mean 0.2111
RMS 0.3071
log10(PT)
Entries 328072
Mean 0.03043
RMS 0.3381
PHI at DCA (0,0)
Entries 328072
Mean 3.235
RMS 1.836
TANLAM at DCA (0,0)
Entries 328072
Mean 0.2186
RMS 3.271
Z at DCA (0,0)
Entries 328072
Mean -1.049
RMS 25.74
DCA (best vertex)
Entries 328072
Mean -8.322e-05
RMS 0.08208
|DCA| (best vertex)
Entries 328072
Mean 0.3969
RMS 0.6505
DCA pull (best vertex)
Entries 328072
Mean 0.03769
RMS 1.756

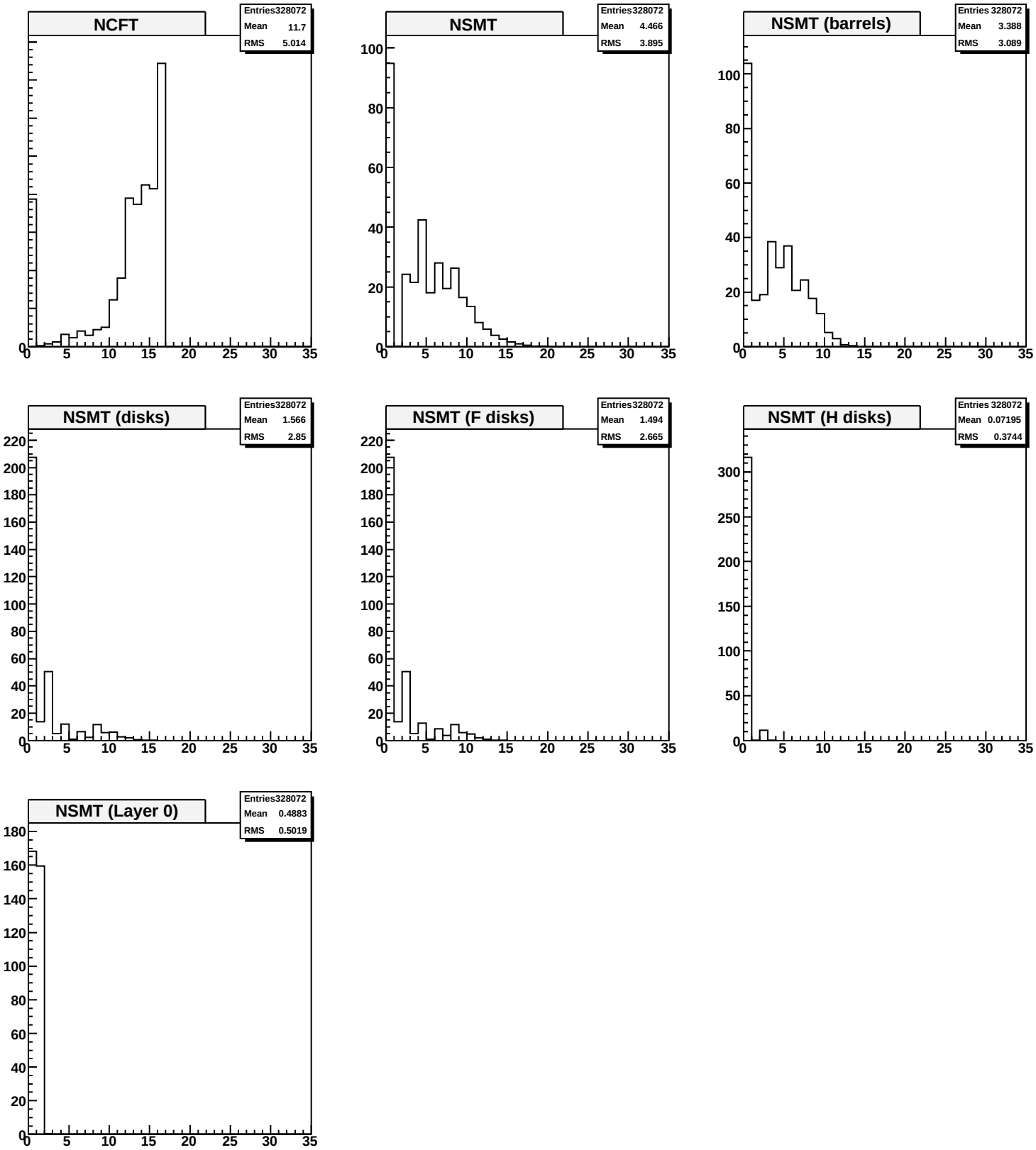
Tracks (All)



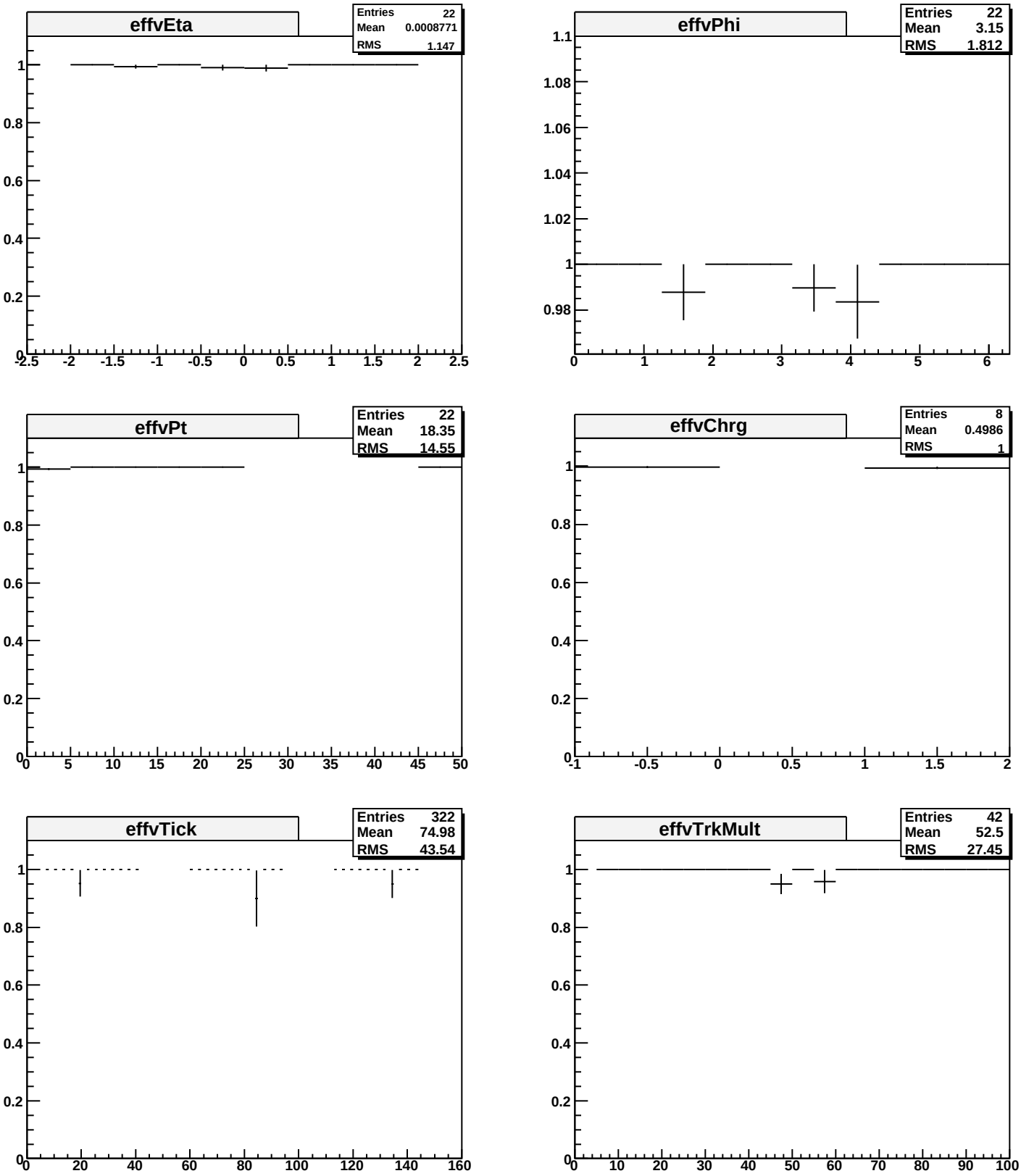
Track Hits (All)



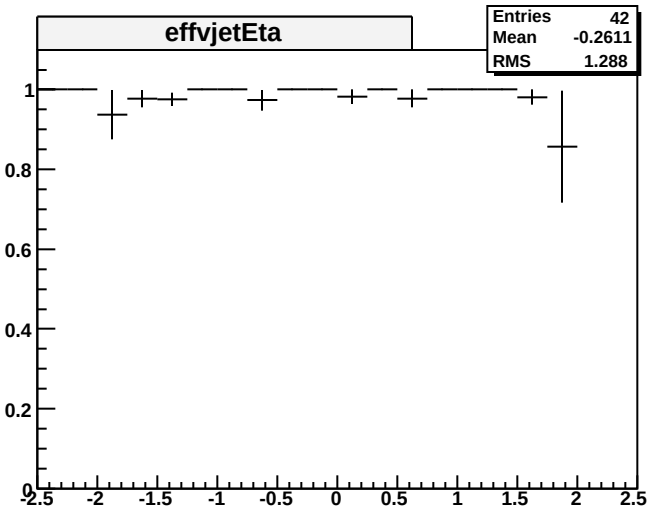
Tracks (Tight)

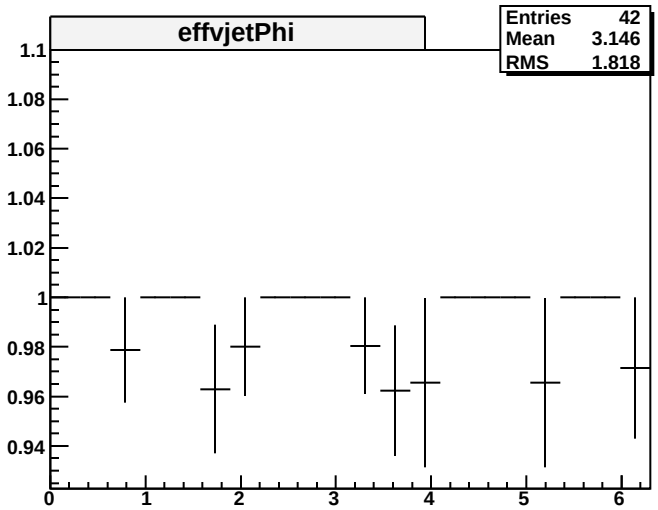


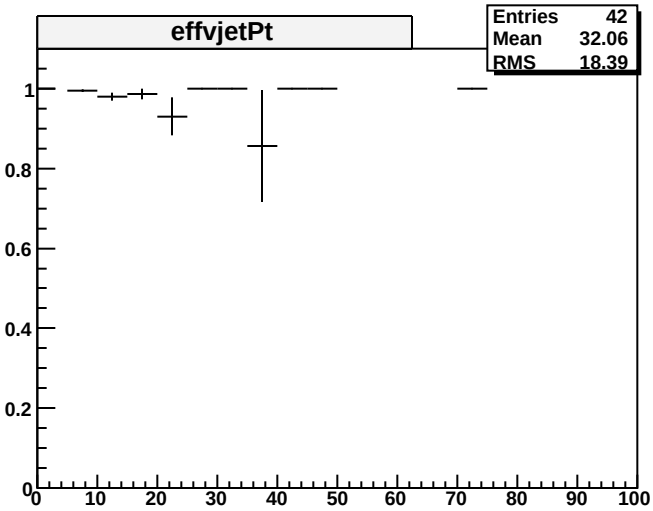
Track Hits (Tight)



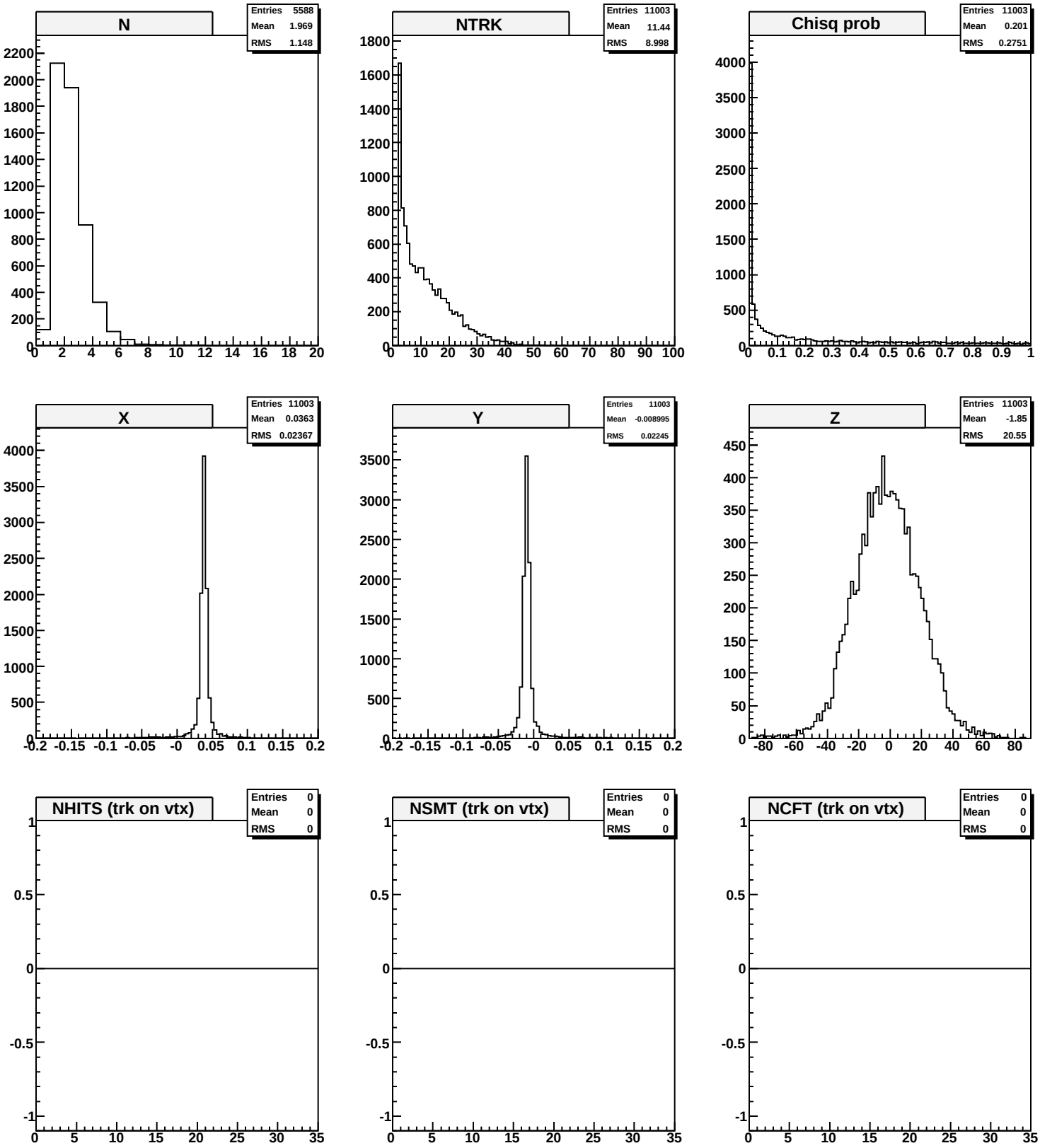
Tracking (Efficiency-Isolated)



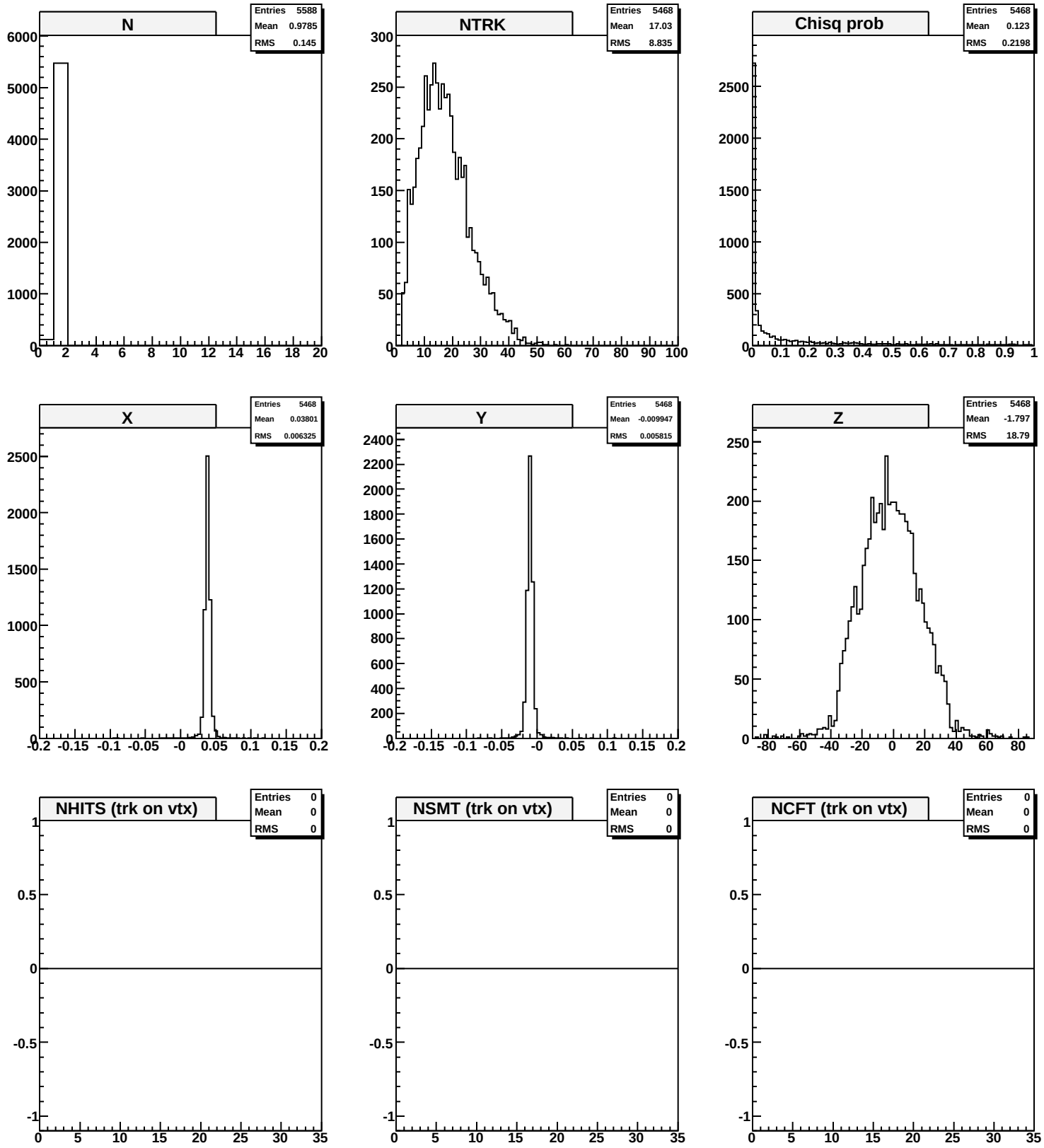




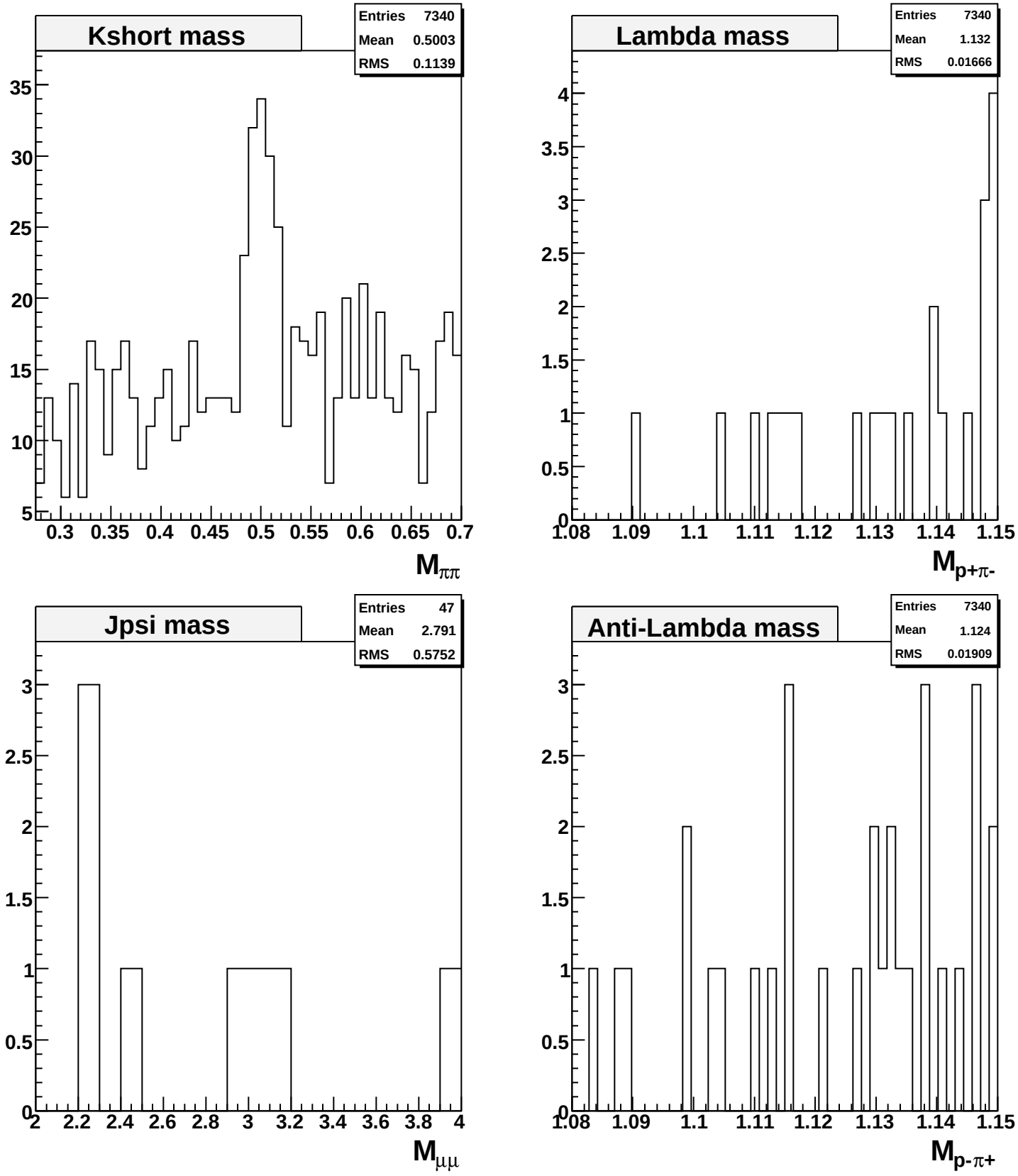
Tracking (Efficiency-InJets)



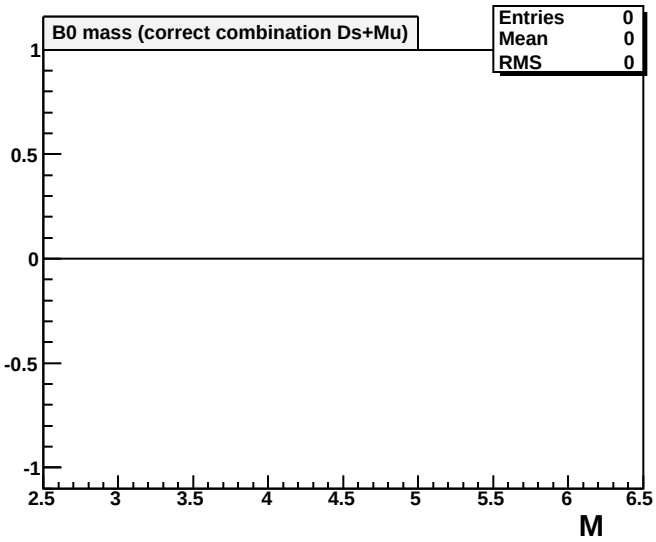
Vertices (Primary - all candidates)

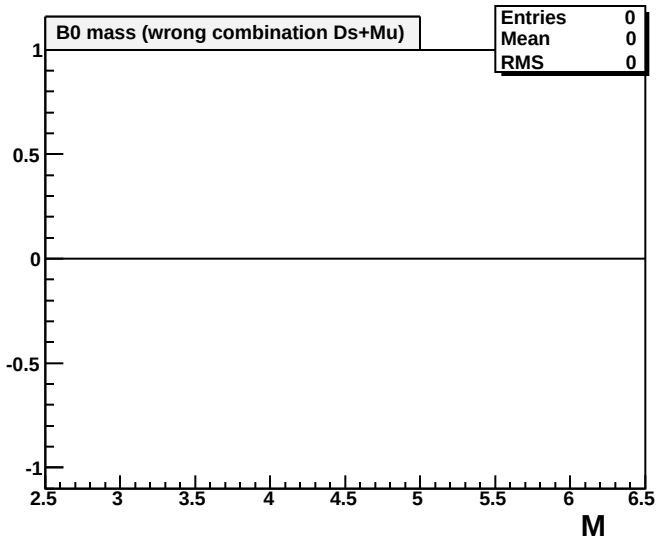


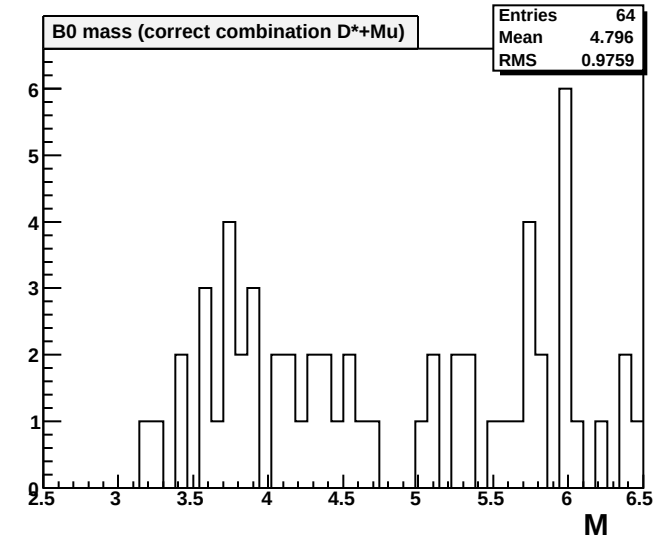
Vertices (Primary - best)

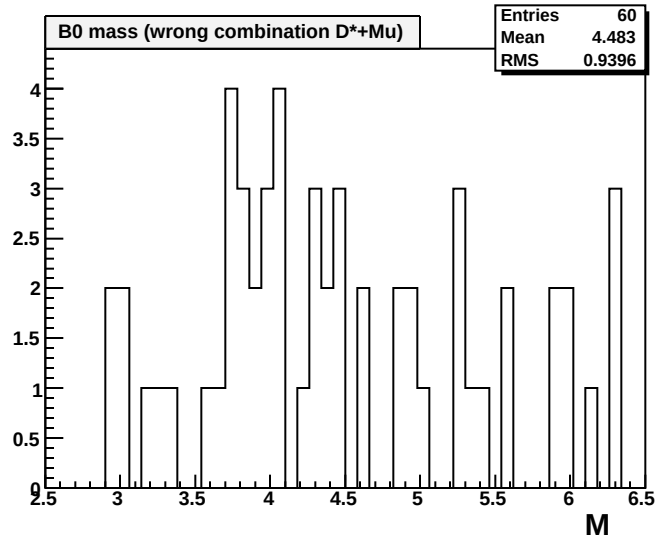

Kshort mass
Entries 7340
Mean 0.5003
RMS 0.1139
$M_{\pi\pi}$
Lambda mass
Entries 7340
Mean 1.132
RMS 0.01666
$M_{p+\pi-}$
Jpsi mass
Entries 47
Mean 2.791
RMS 0.5752
$M_{\mu\mu}$
Anti-Lambda mass
Entries 7340
Mean 1.124
RMS 0.01909
$M_{p-\pi+}$

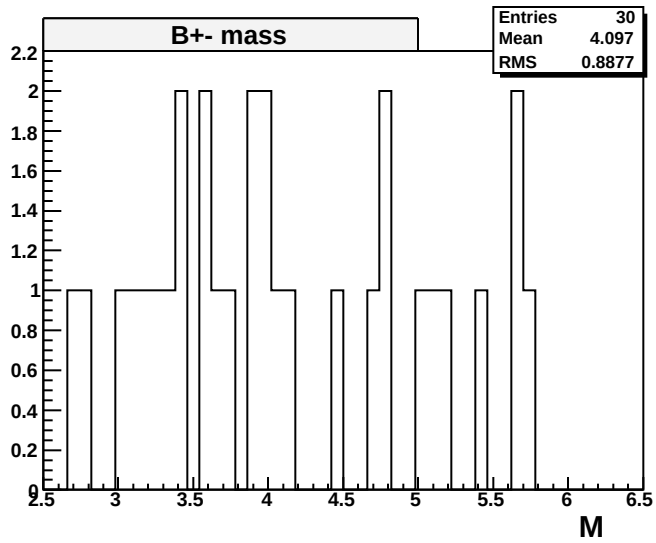
V0 (All)



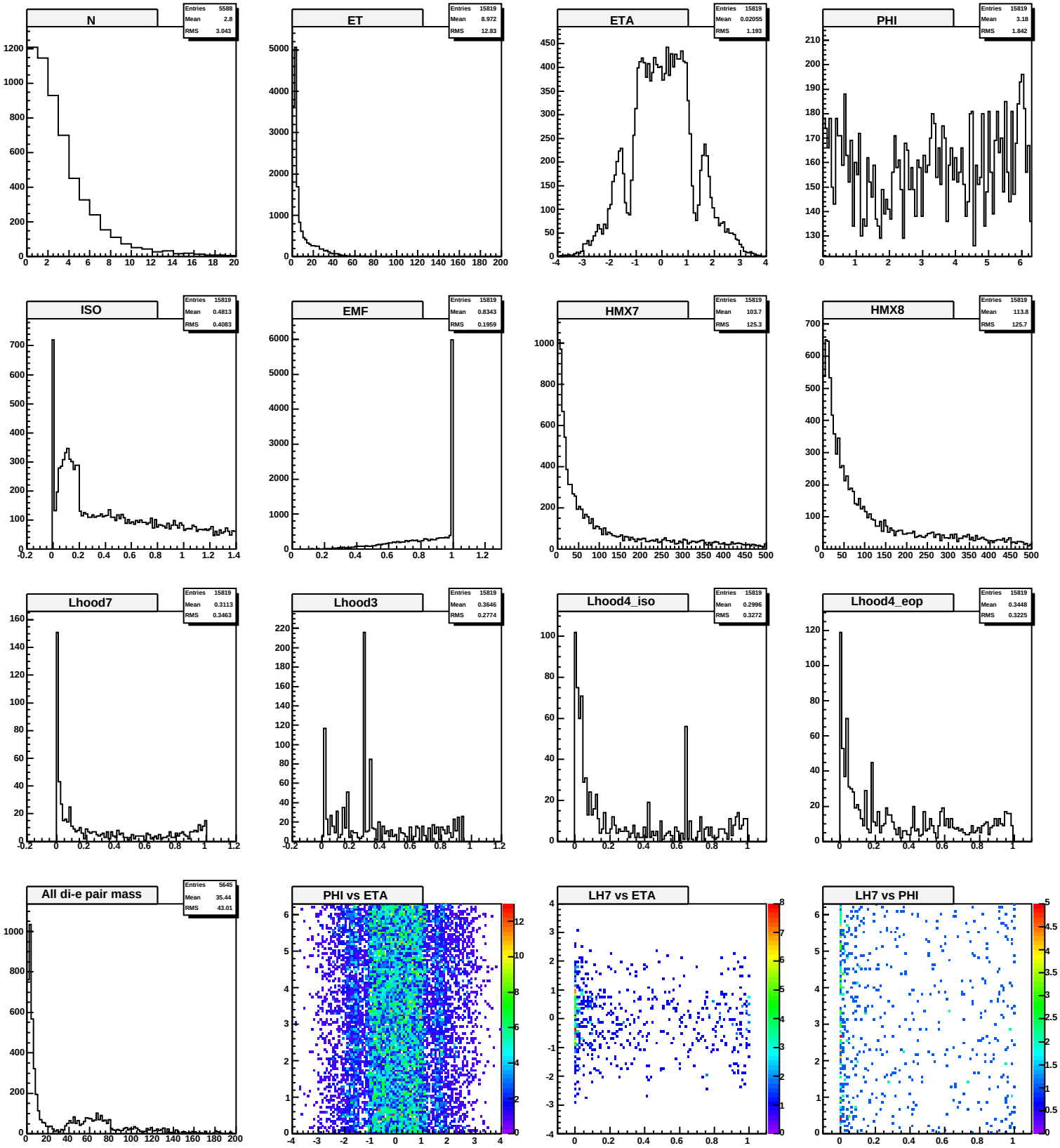




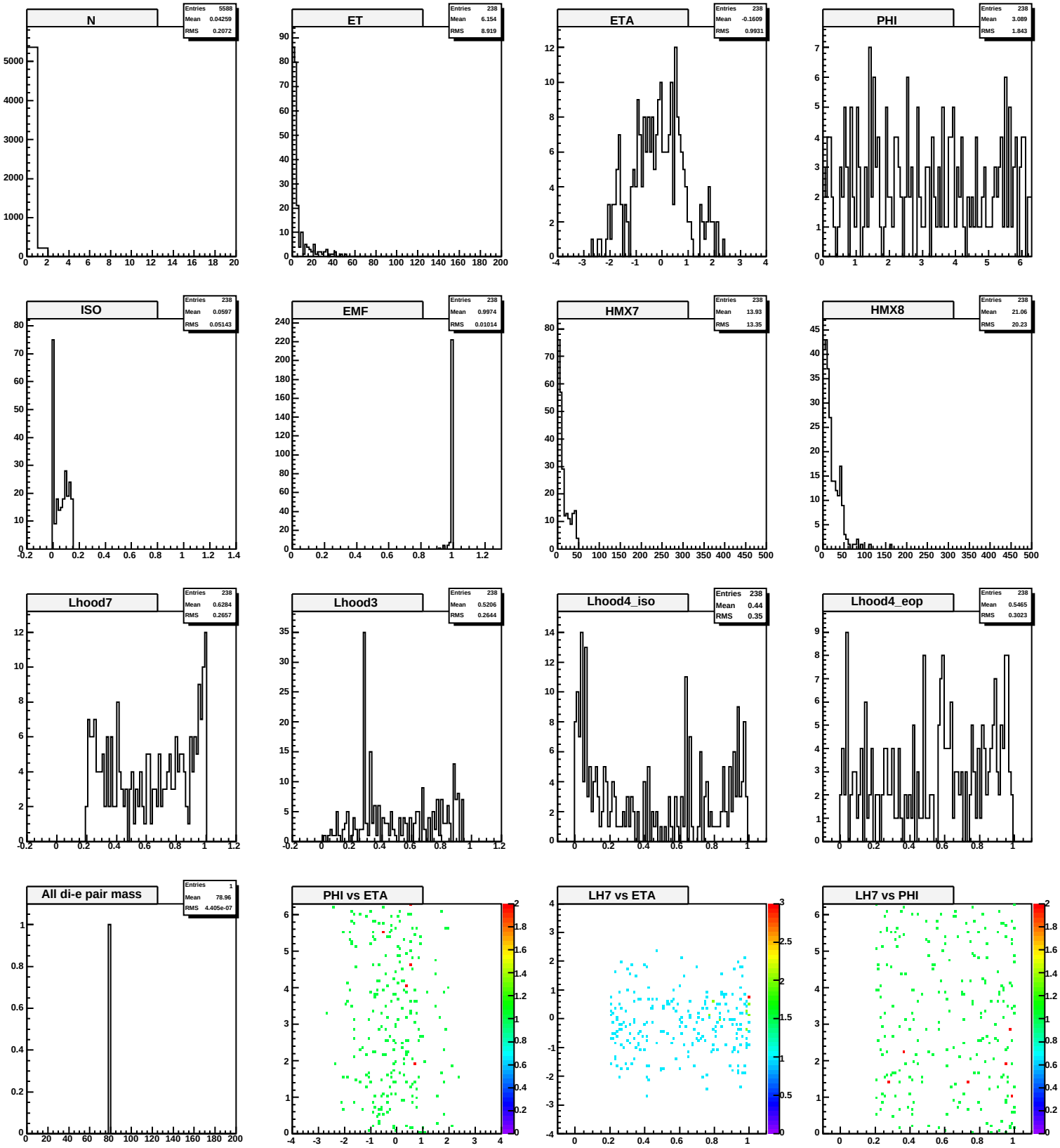




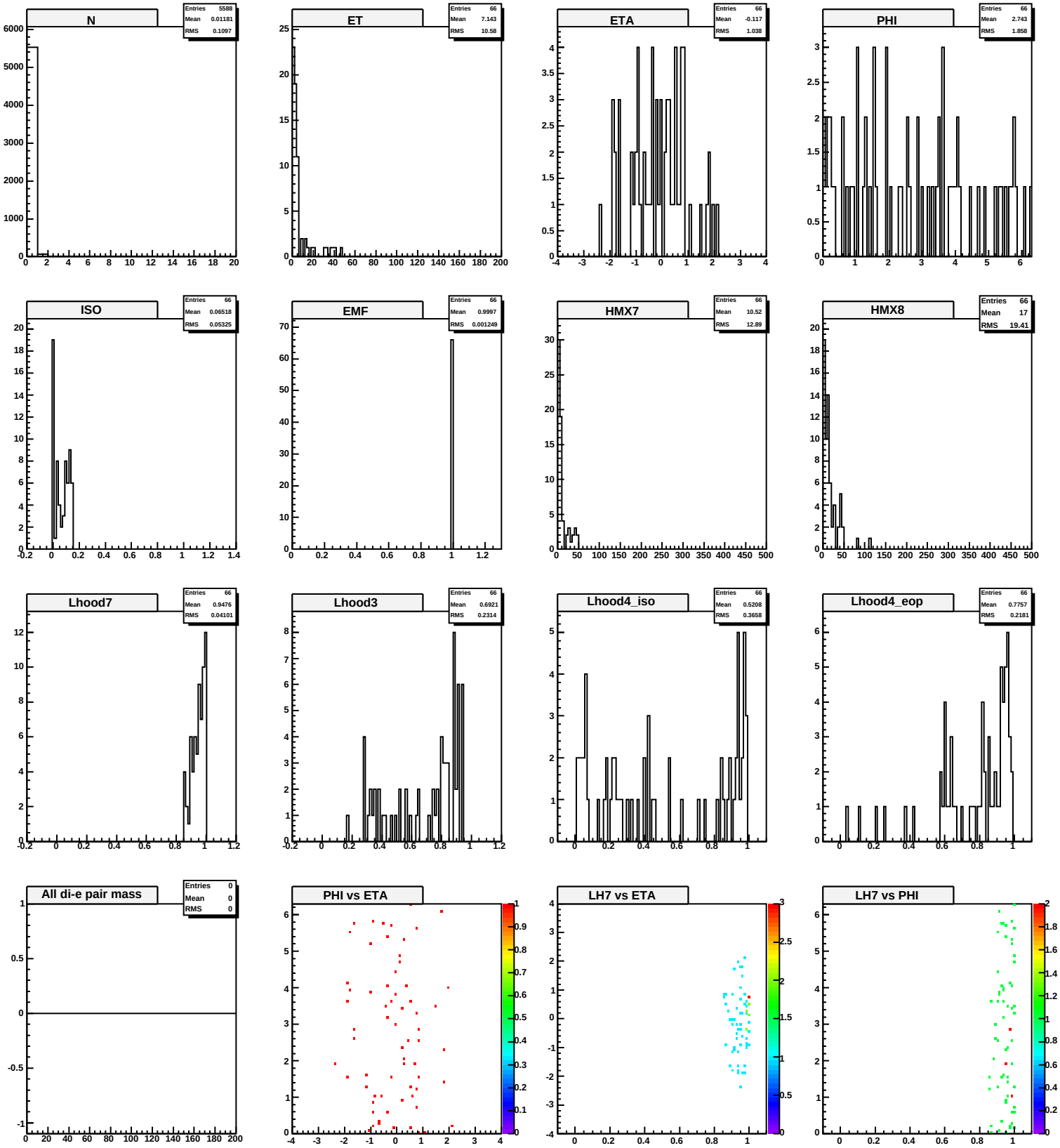
V0(B mesons) (All)



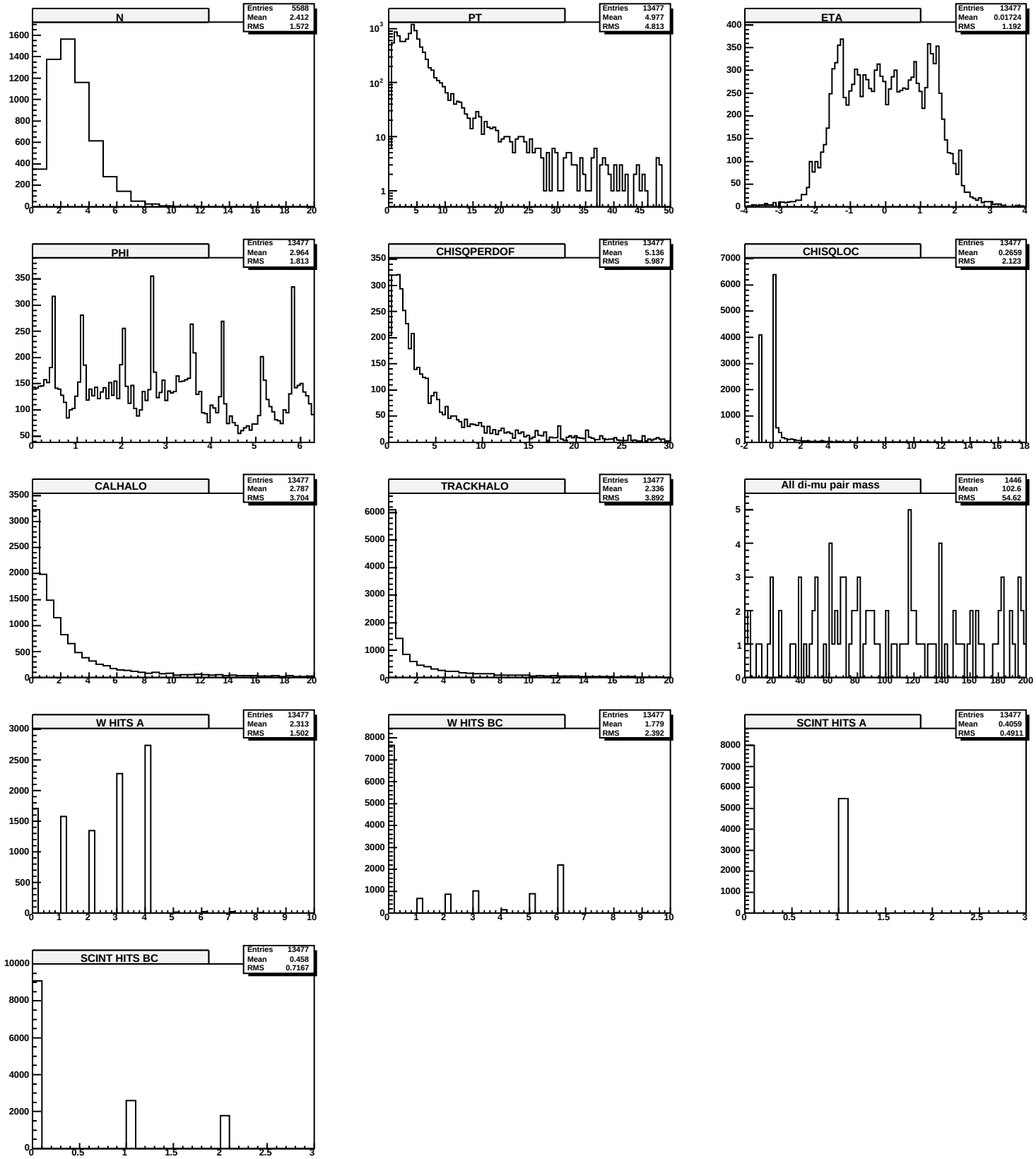
Electrons (SCONE All)



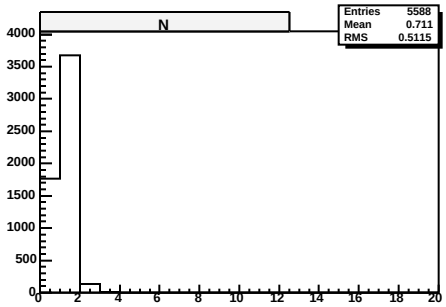
Electrons (SCONE Loose)

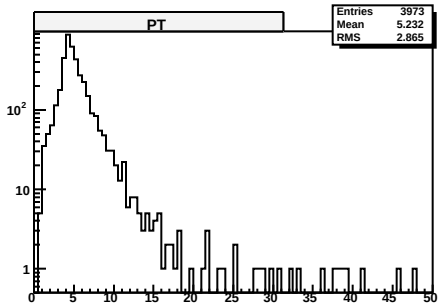


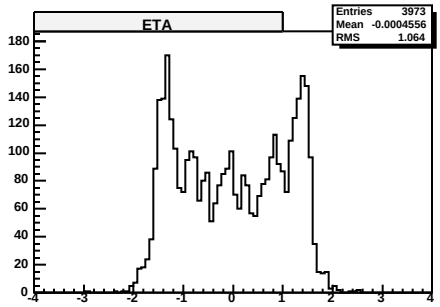
Electrons (SCONE Tight)

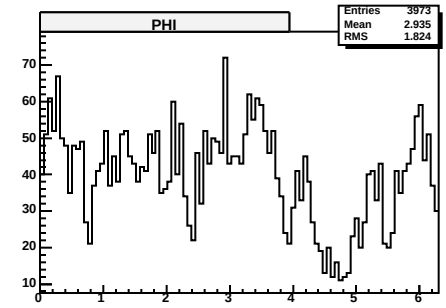

N
Entries 5588
Mean 2.412
RMS 1.572
PT
Entries 13477
Mean 4.977
RMS 4.813
ETA
Entries 13477
Mean 0.01724
RMS 1.192
PHI
Entries 13477
Mean 2.964
RMS 1.813
CHISQPERDOF
Entries 13477
Mean 5.136
RMS 5.987
CHISQLOC
Entries 13477
Mean 0.2659
RMS 2.123
CALHALO
Entries 13477
Mean 2.787
RMS 3.704
TRACKHALO
Entries 13477
Mean 2.336
RMS 3.892
All di-mu pair mass
Entries 1446
Mean 102.6
RMS 54.62
W HITS A
Entries 13477
Mean 2.313
RMS 1.502
W HITS BC
Entries 13477
Mean 1.779
RMS 2.392
SCINT HITS A
Entries 13477
Mean 0.4059
RMS 0.4911
SCINT HITS BC
Entries 13477
Mean 0.458
RMS 0.7167

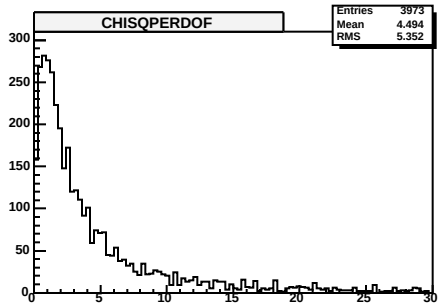
Muons (All)

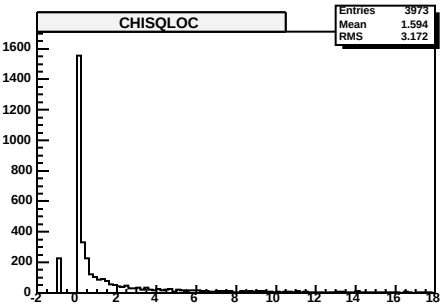


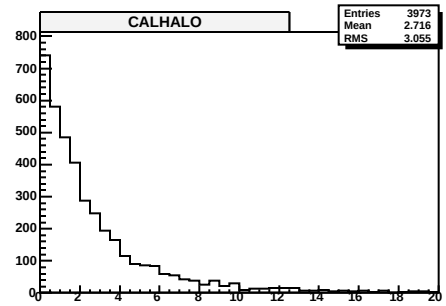


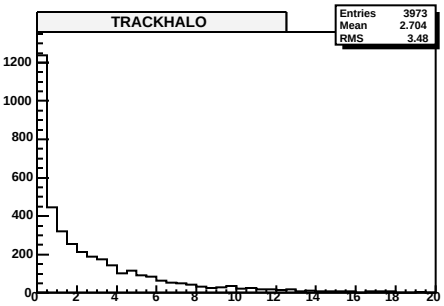


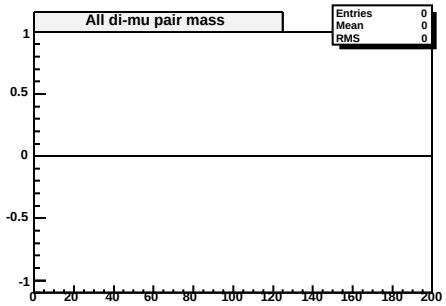


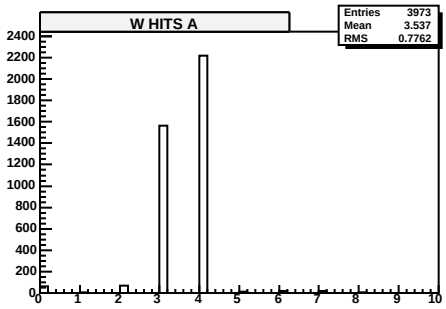


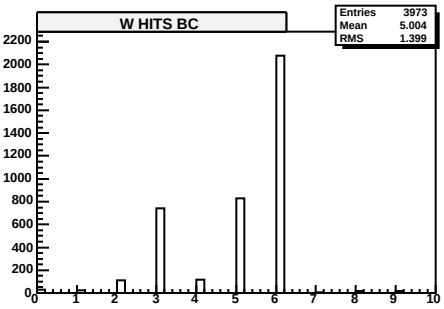


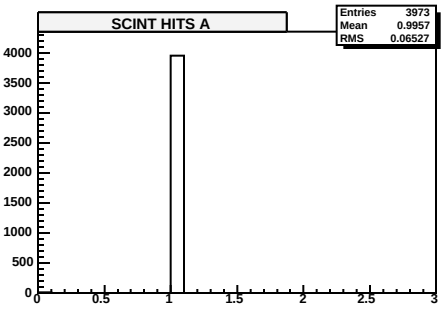


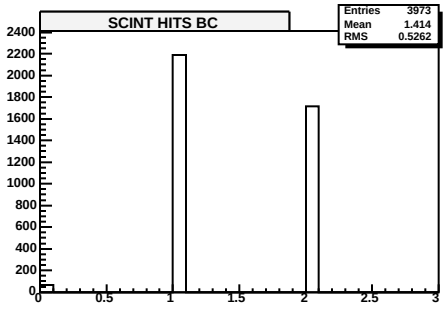




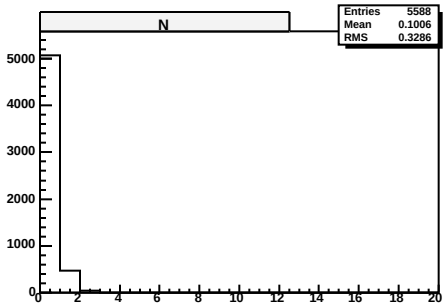


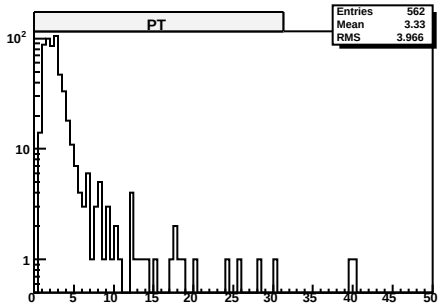


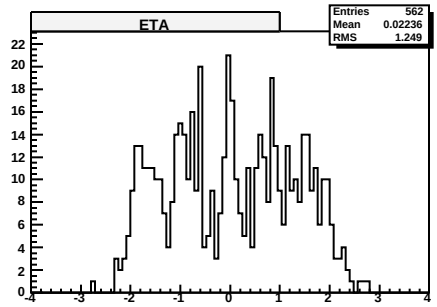


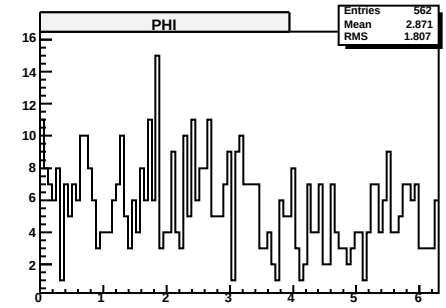


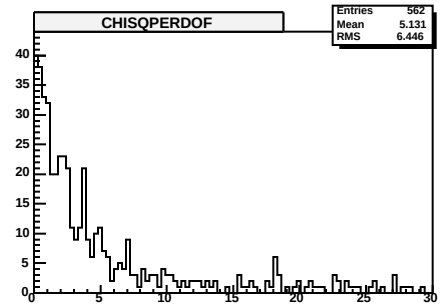
Muons (Matched)

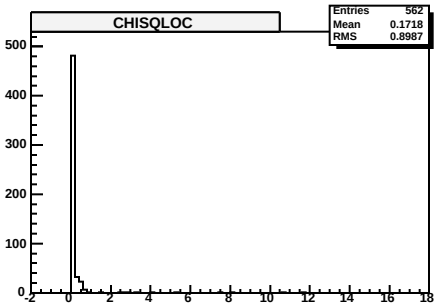

N
Entries 5588
Mean 0.1006
RMS 0.3286

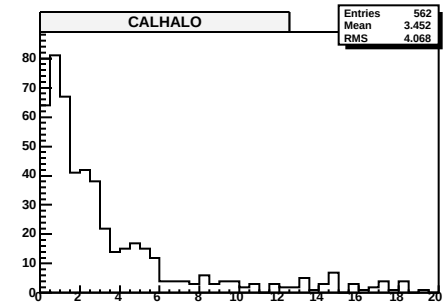

PT
Entries 562
Mean 3.33
RMS 3.966

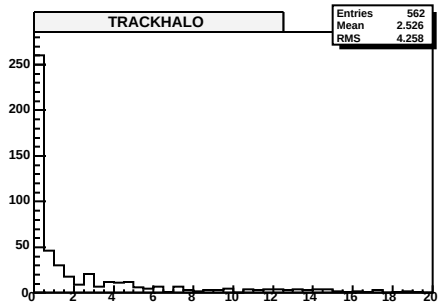

ETA
Entries 562
Mean 0.02236
RMS 1.249

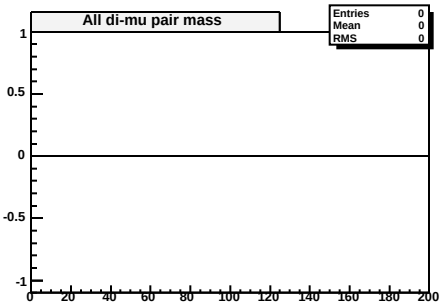

PHI
Entries 562
Mean 2.871
RMS 1.807

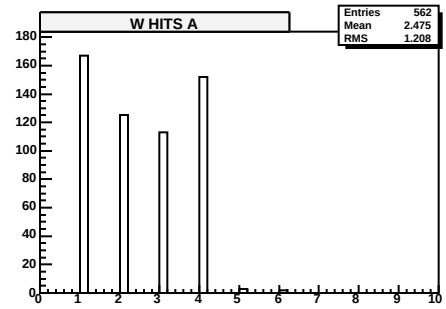

CHISQPERDOF
Entries 562
Mean 5.131
RMS 6.446

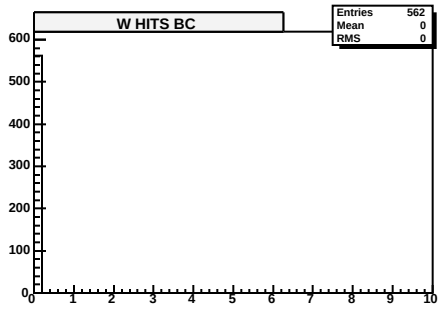

CHISQLOC
Entries 562
Mean 0.1718
RMS 0.8987

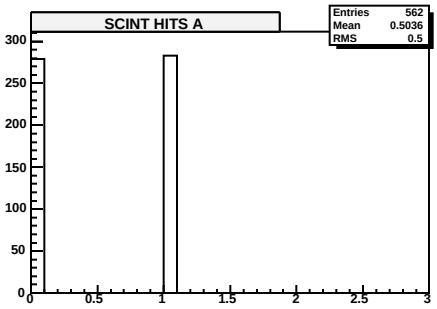

CALHALO
Entries 562
Mean 3.452
RMS 4.068

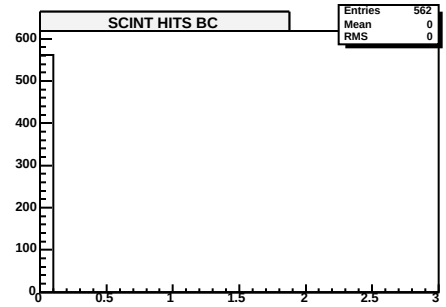

TRACKHALO
Entries 562
Mean 2.526
RMS 4.258


All di-mu pair mass
Entries 0
Mean 0
RMS 0

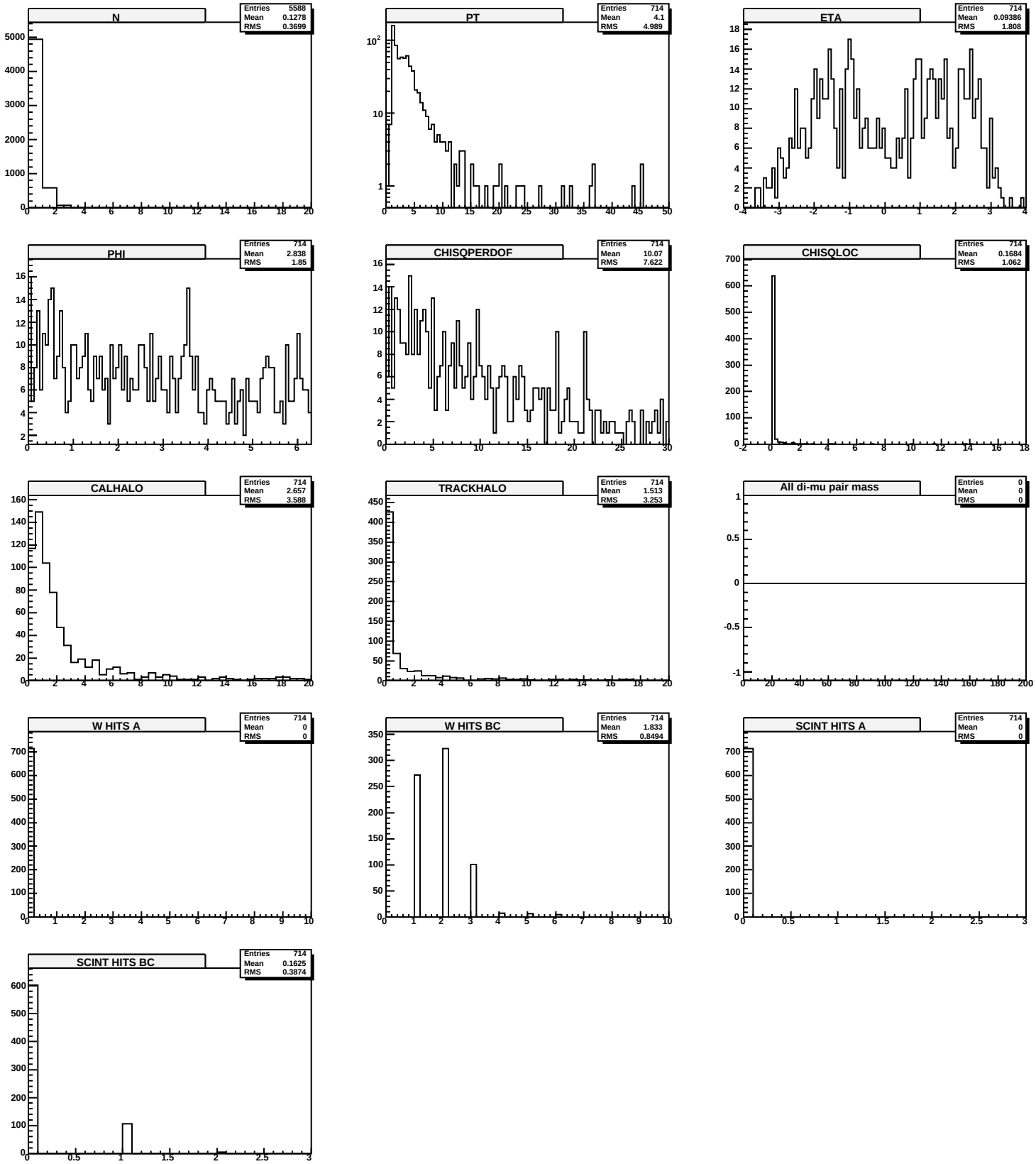

W HITS A
Entries 562
Mean 2.475
RMS 1.208


W HITS BC
Entries 562
Mean 0
RMS 0

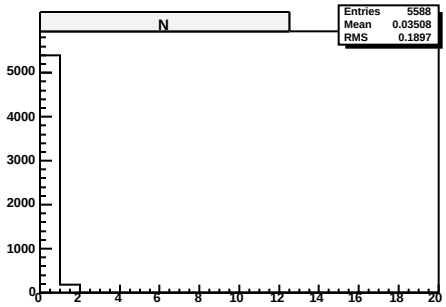

SCINT HITS A
Entries 562
Mean 0.5036
RMS 0.5

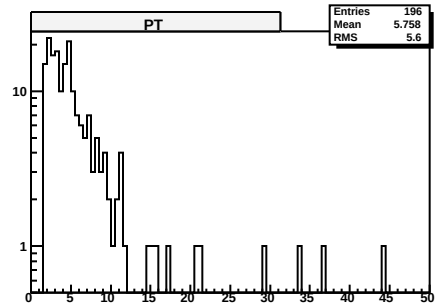

SCINT HITS BC
Entries 562
Mean 0
RMS 0

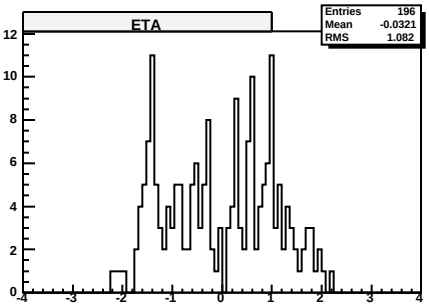
Muons (Astub)

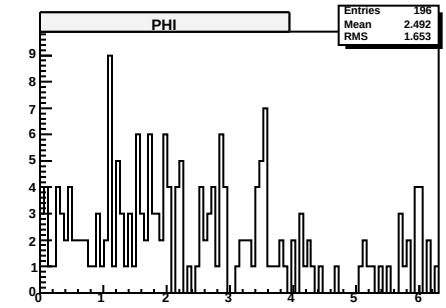


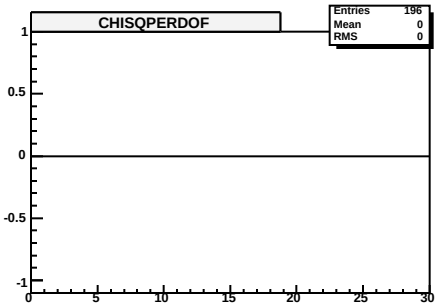
Muons (BCstub)

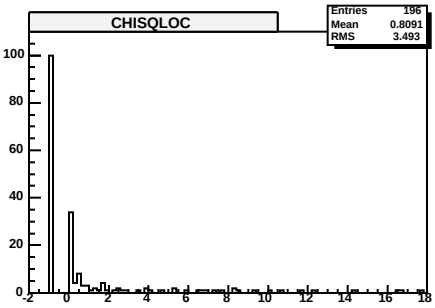


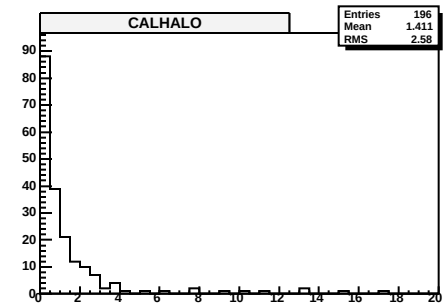


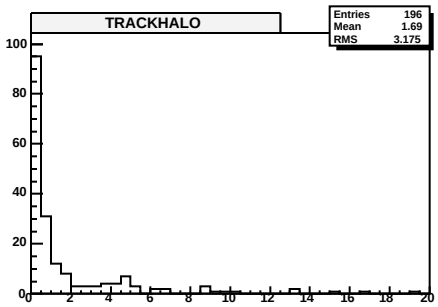


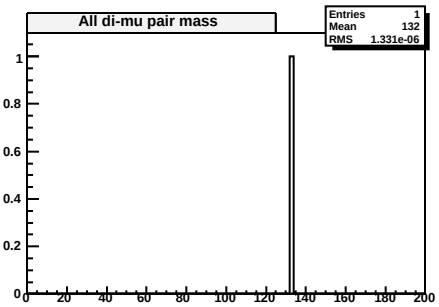


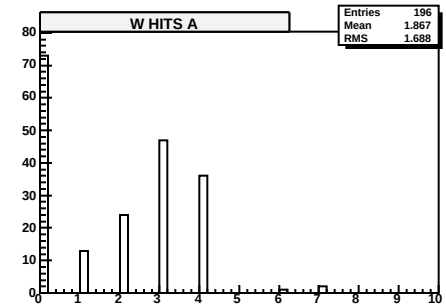


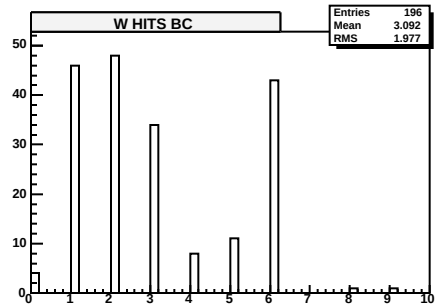


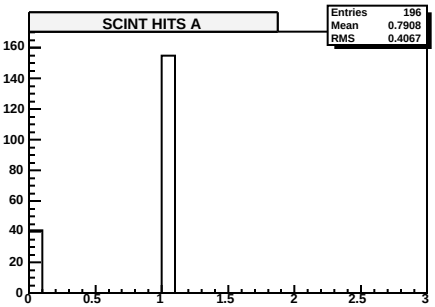


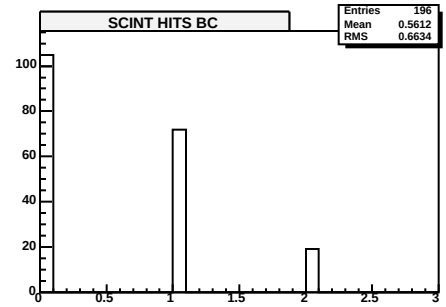




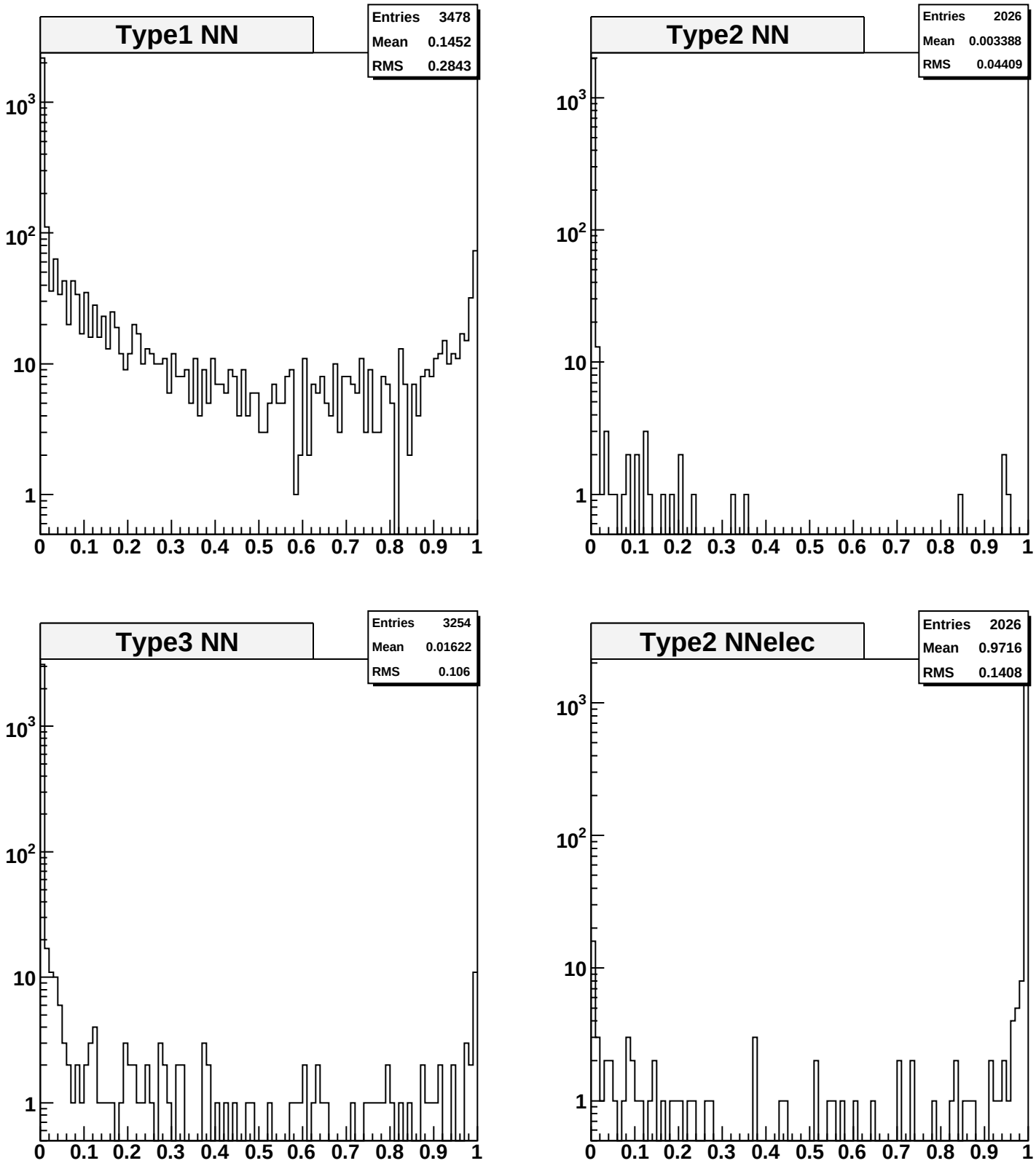




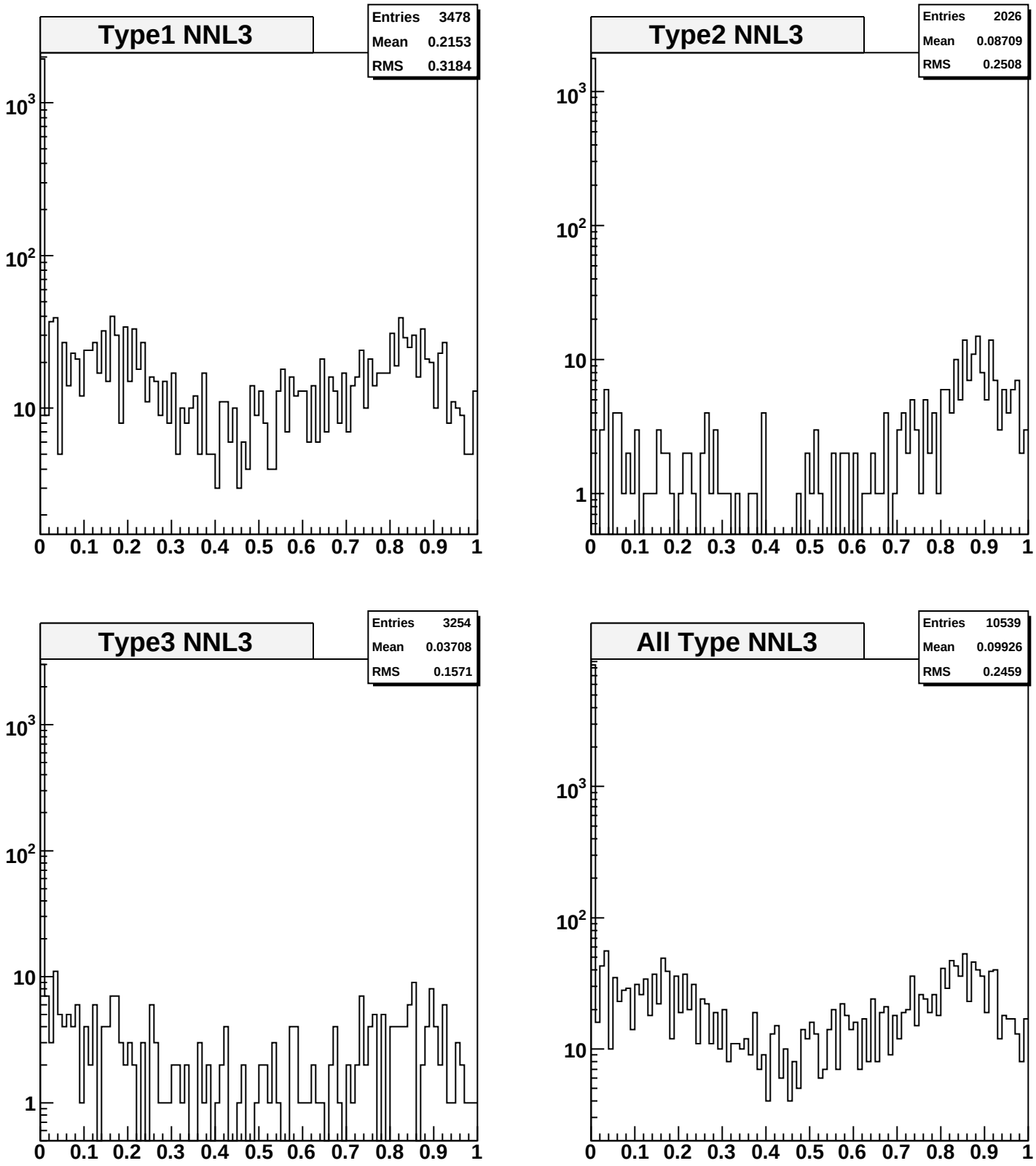




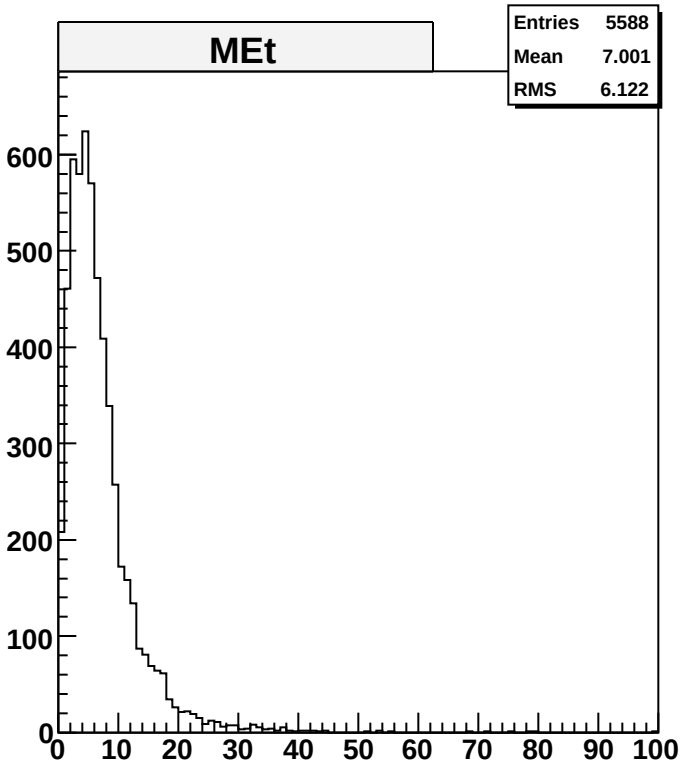
Muons (Unmatched)

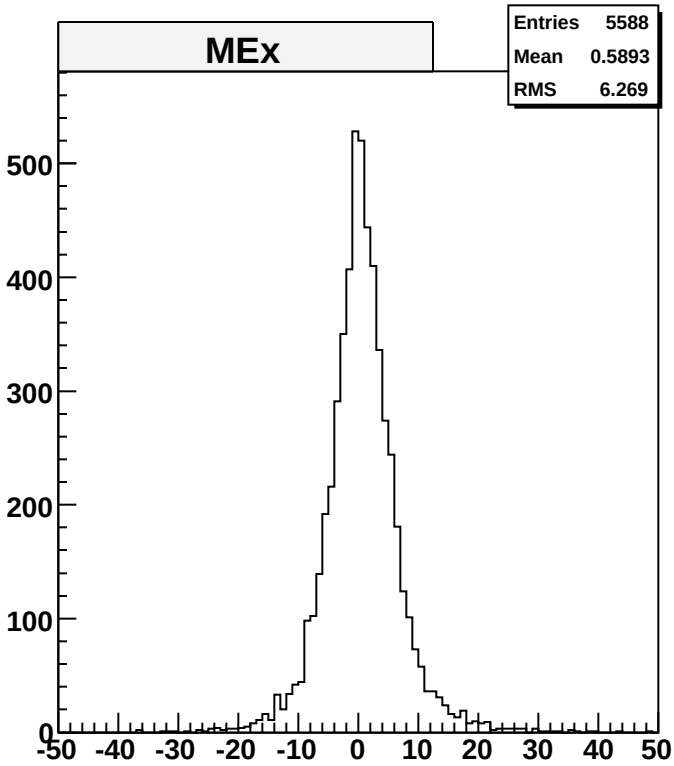


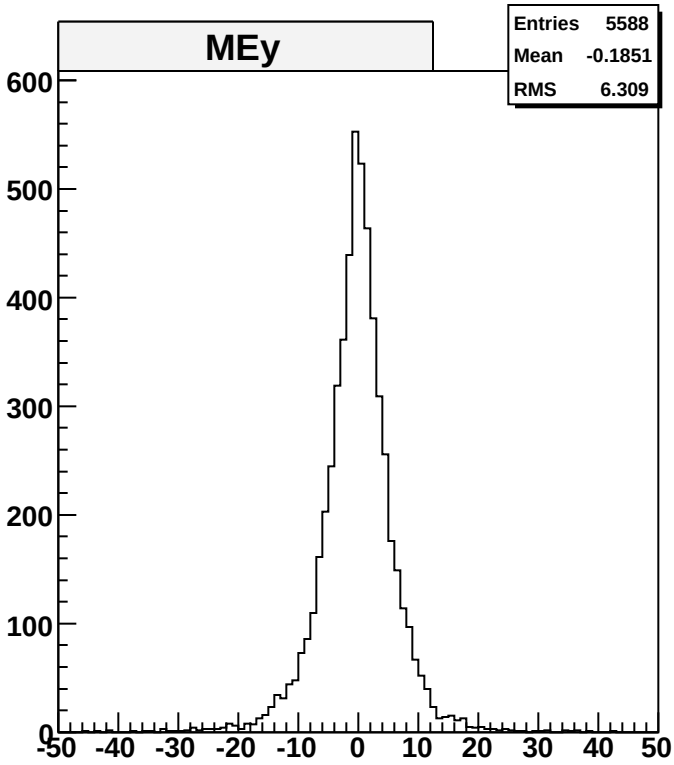
Taus NN (TAU All)



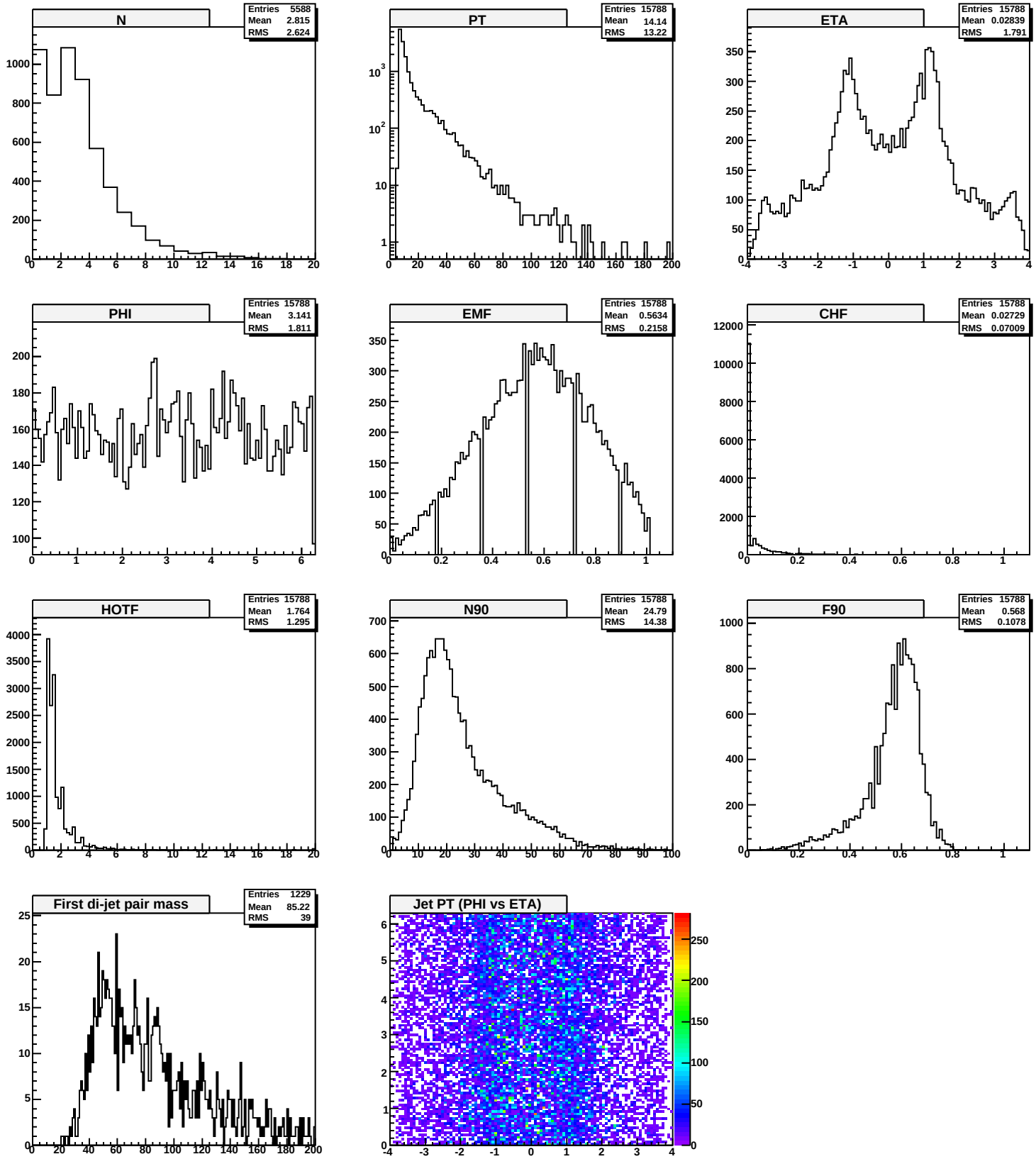
Taus NNL3 (TAU All)


MEt
Entries 5588
Mean 7.001
RMS 6.122
0
100
200
300
400
500
600
0 10 20 30 40 50 60 70 80 90 100

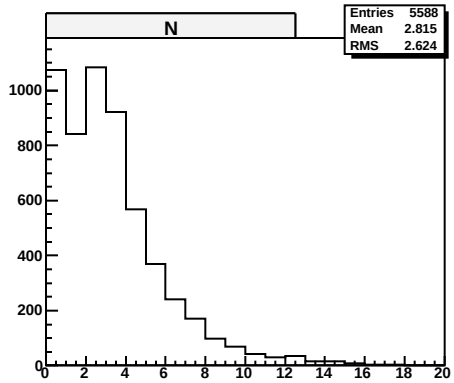

MEx
Entries 5588
Mean 0.5893
RMS 6.269
0
100
200
300
400
500
-50 -40 -30 -20 -10 0 10 20 30 40 50

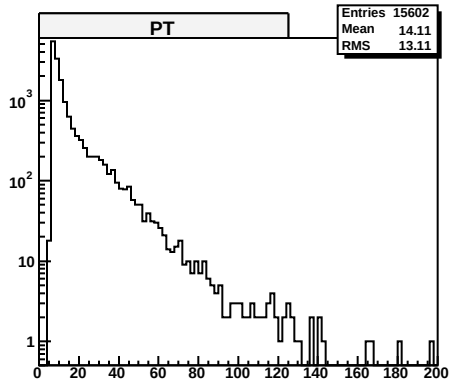

MEy
Entries 5588
Mean -0.1851
RMS 6.309
0
100
200
300
400
500
600
-50 -40 -30 -20 -10 0 10 20 30 40 50

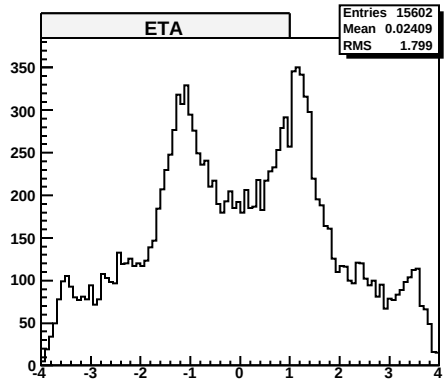
Met (No cuts)

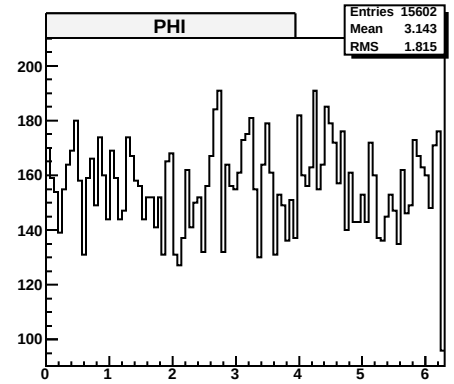


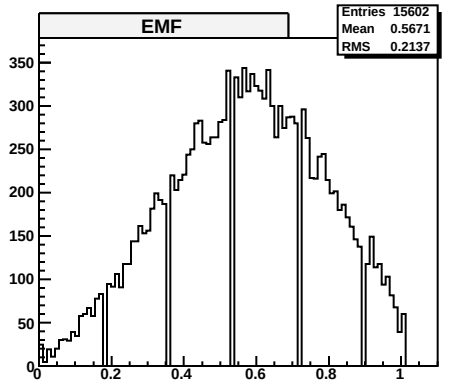
Jets (Cone R 0.7 (no cuts))

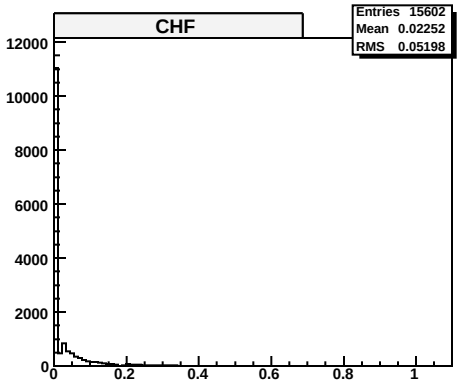


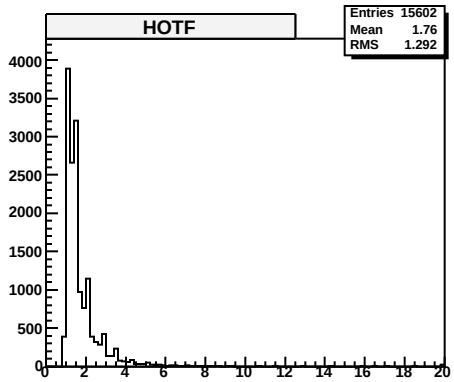


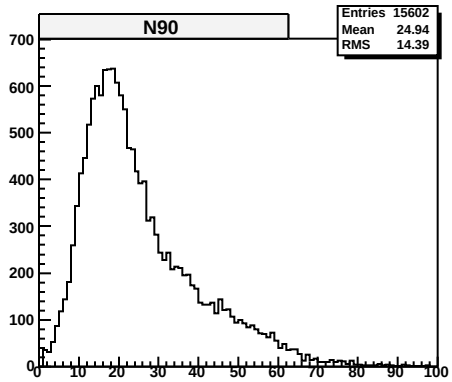


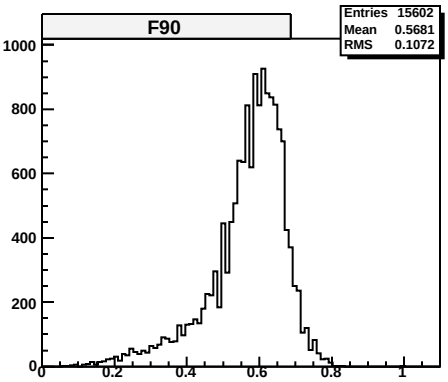


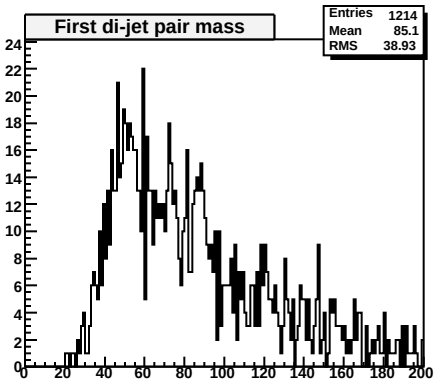


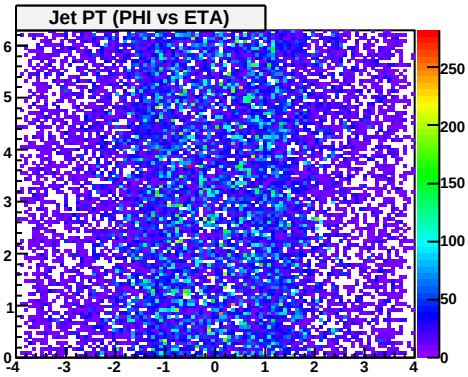




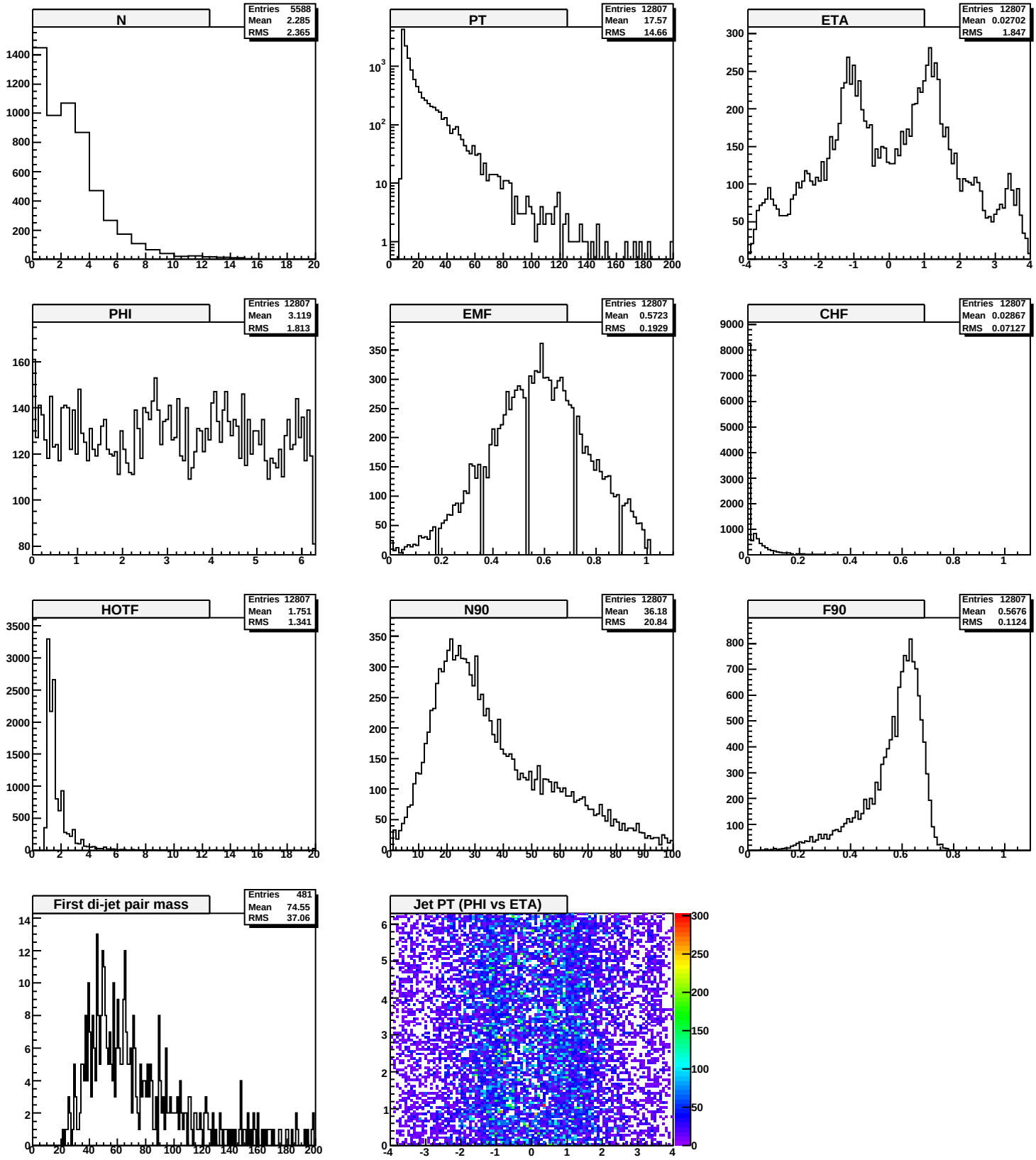




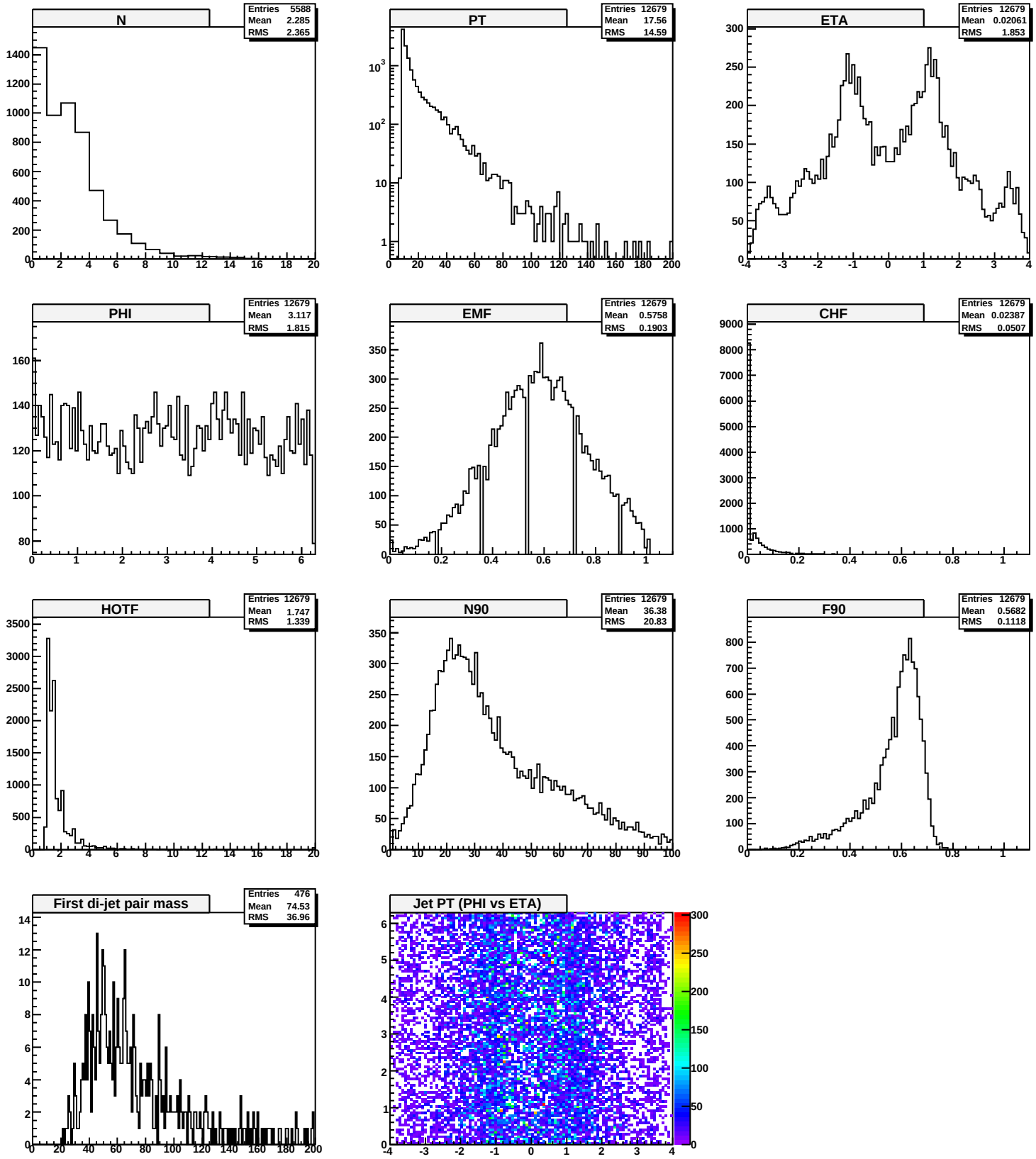




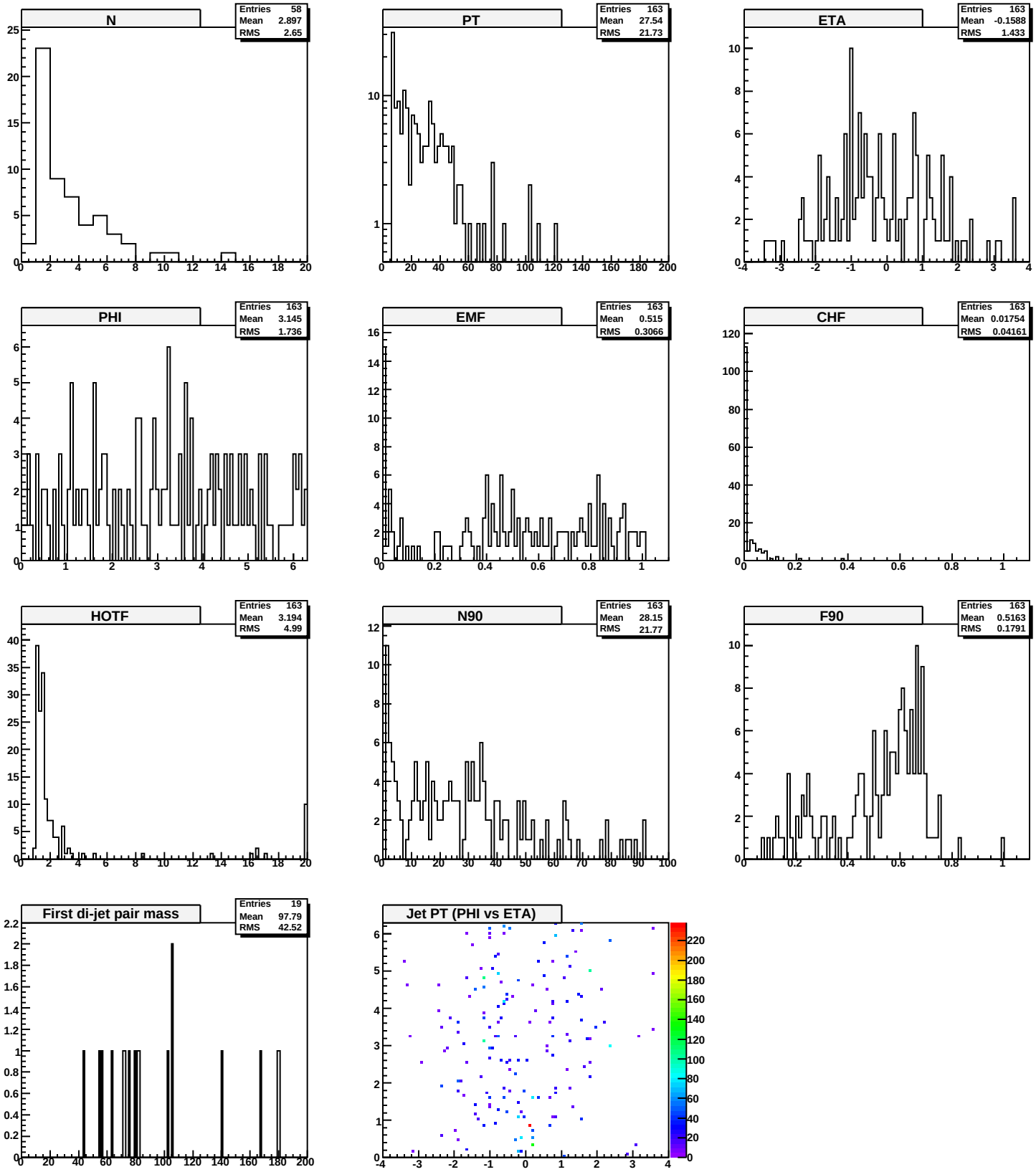
Jets (Cone R 0.7 (standard cuts))



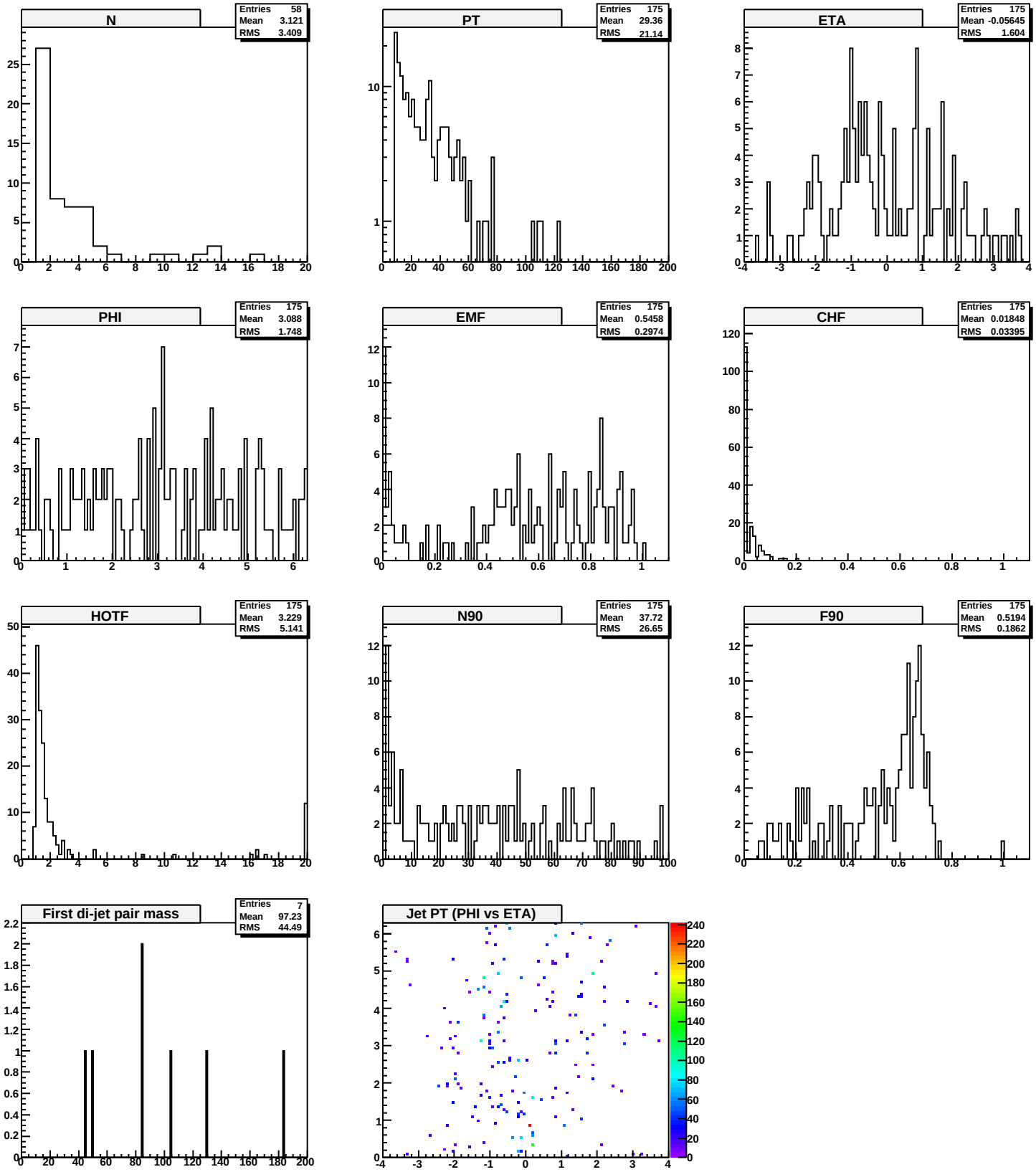
Jets (KT D 1 (no cuts))



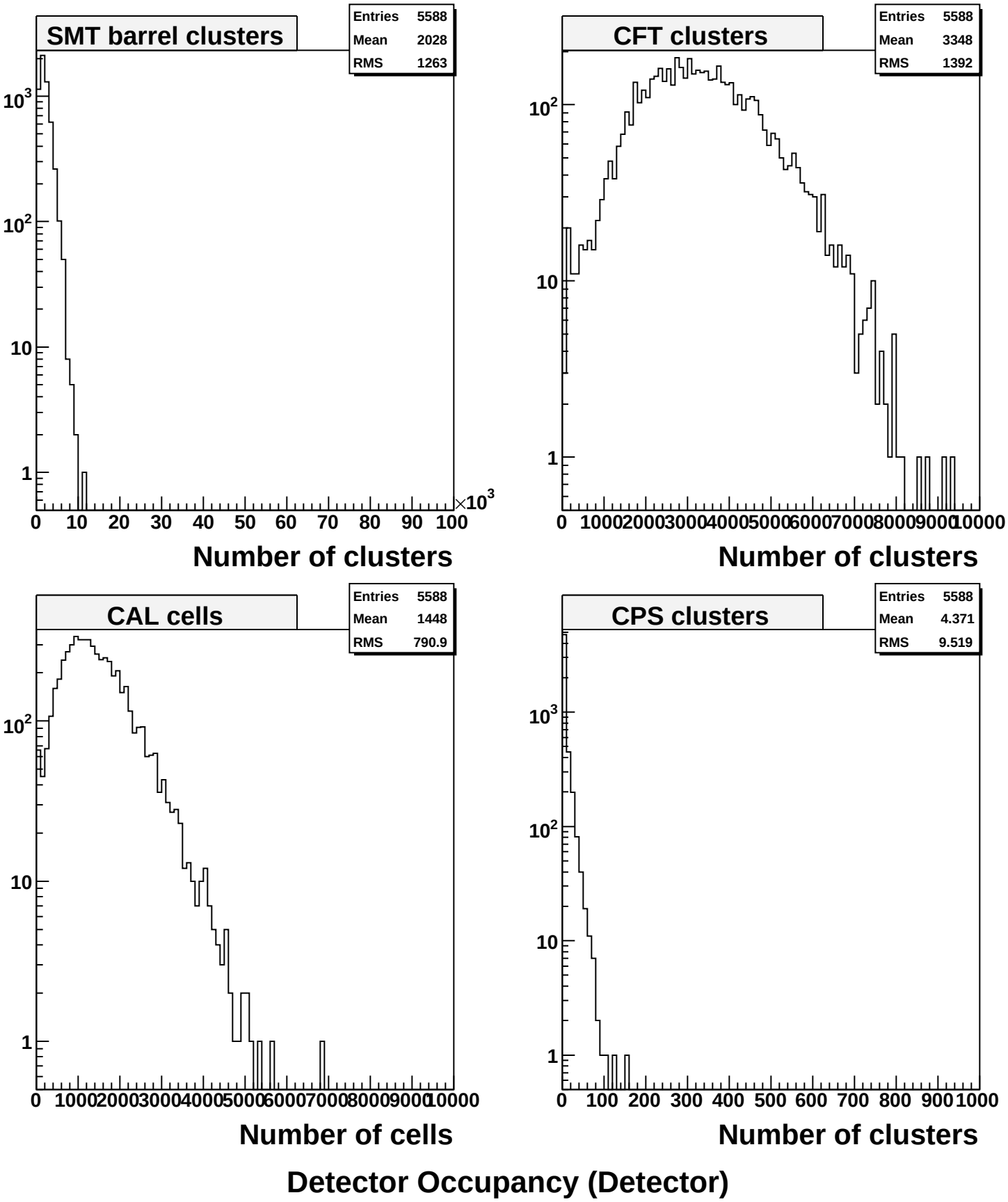
Jets (KT D 1 (standard cuts))



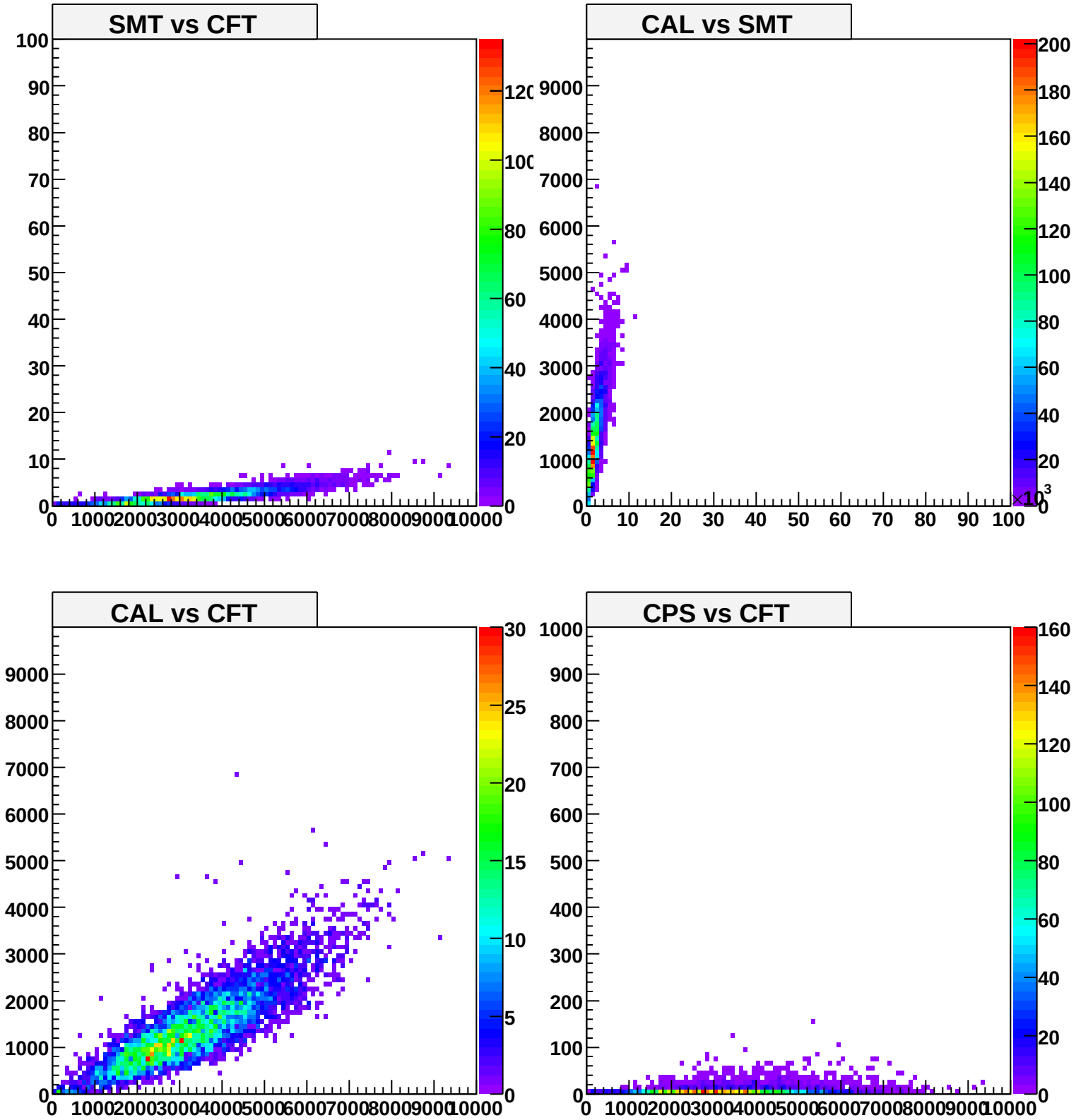
Jets (Cone R 0.7 (standard cuts, MET>30))

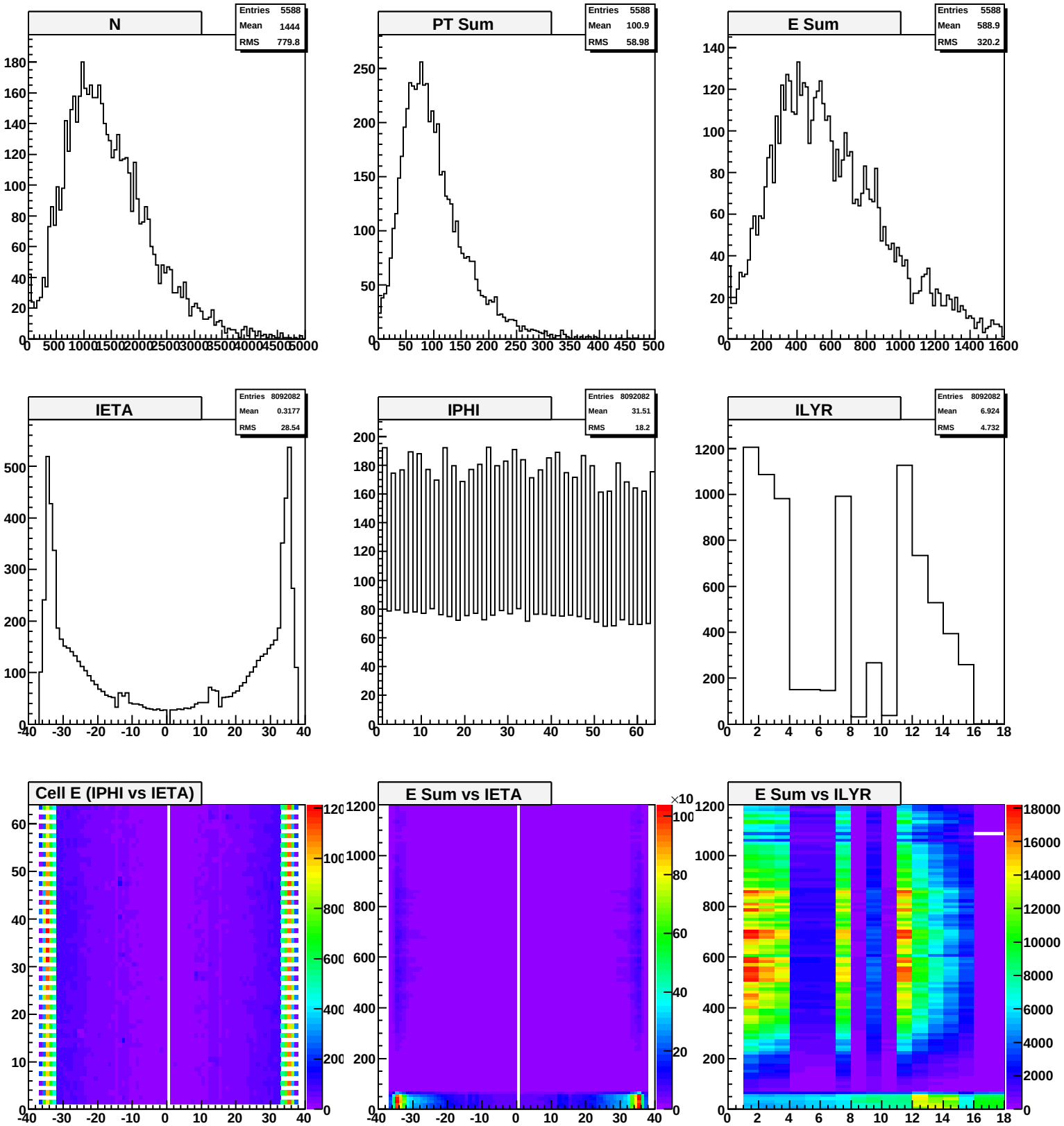


Jets (KT D 1 (standard cuts, MET>30))

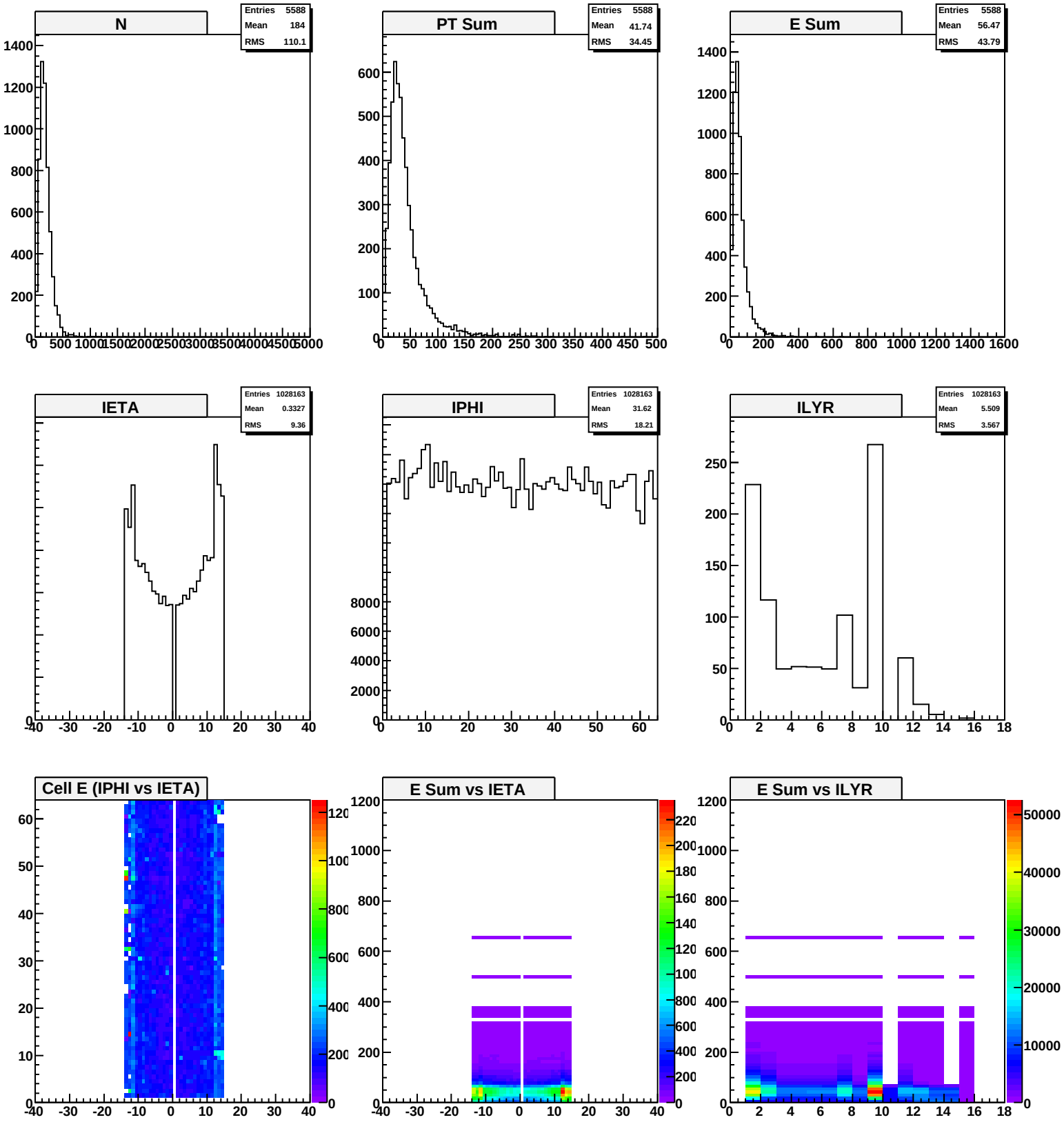


Detector Occupancy (Detector)

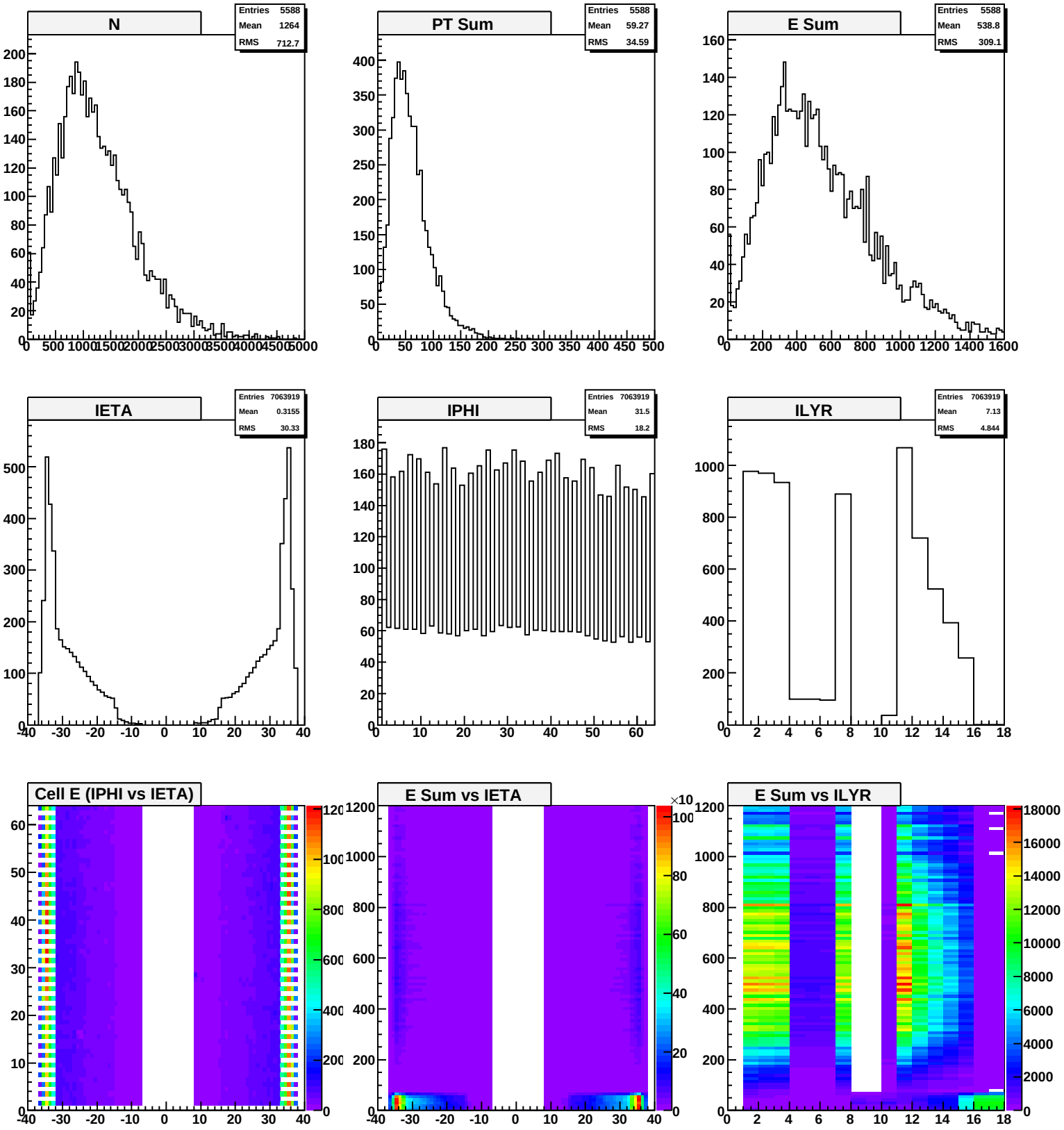

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)



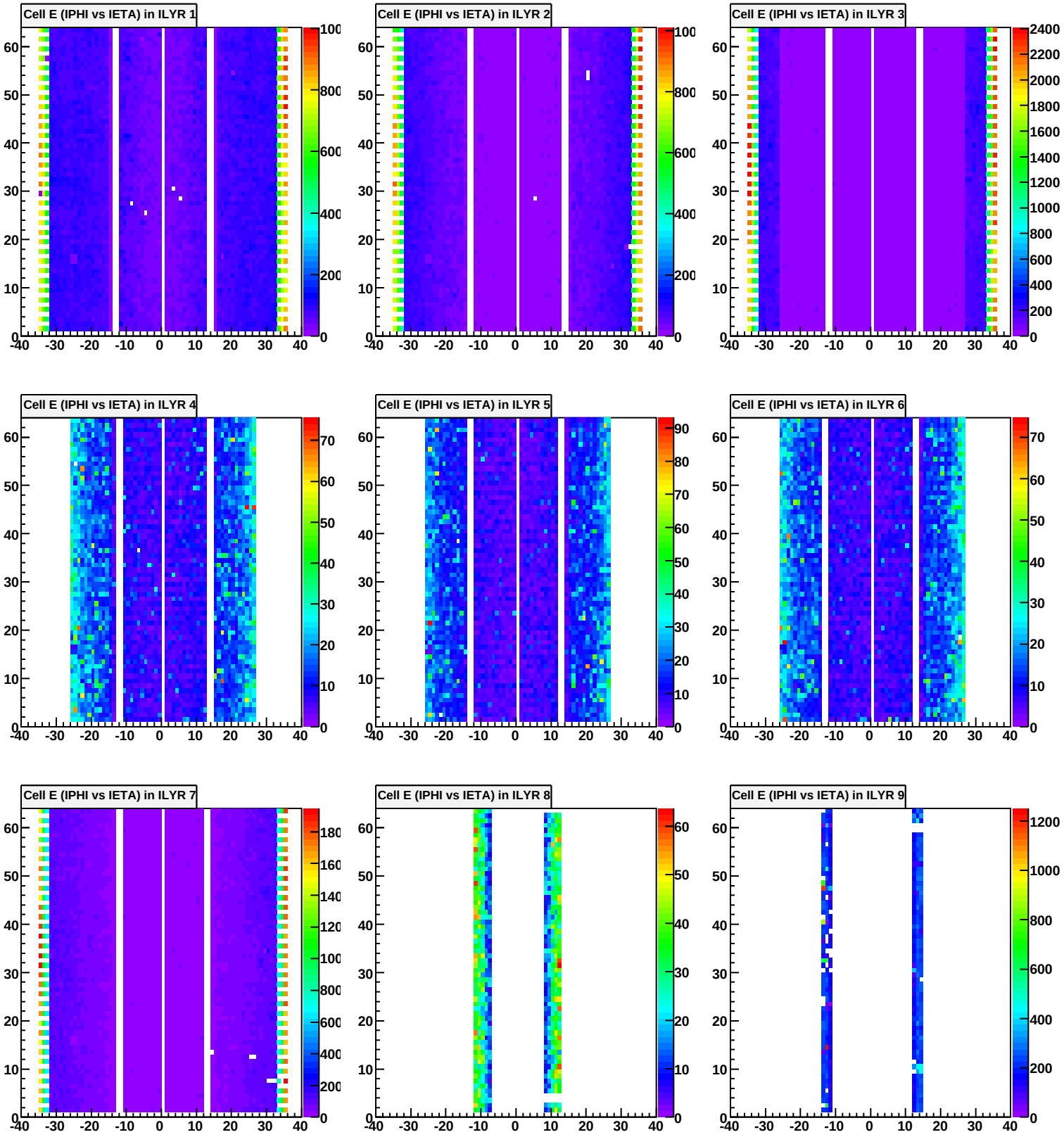
Calorimeter (All cells)



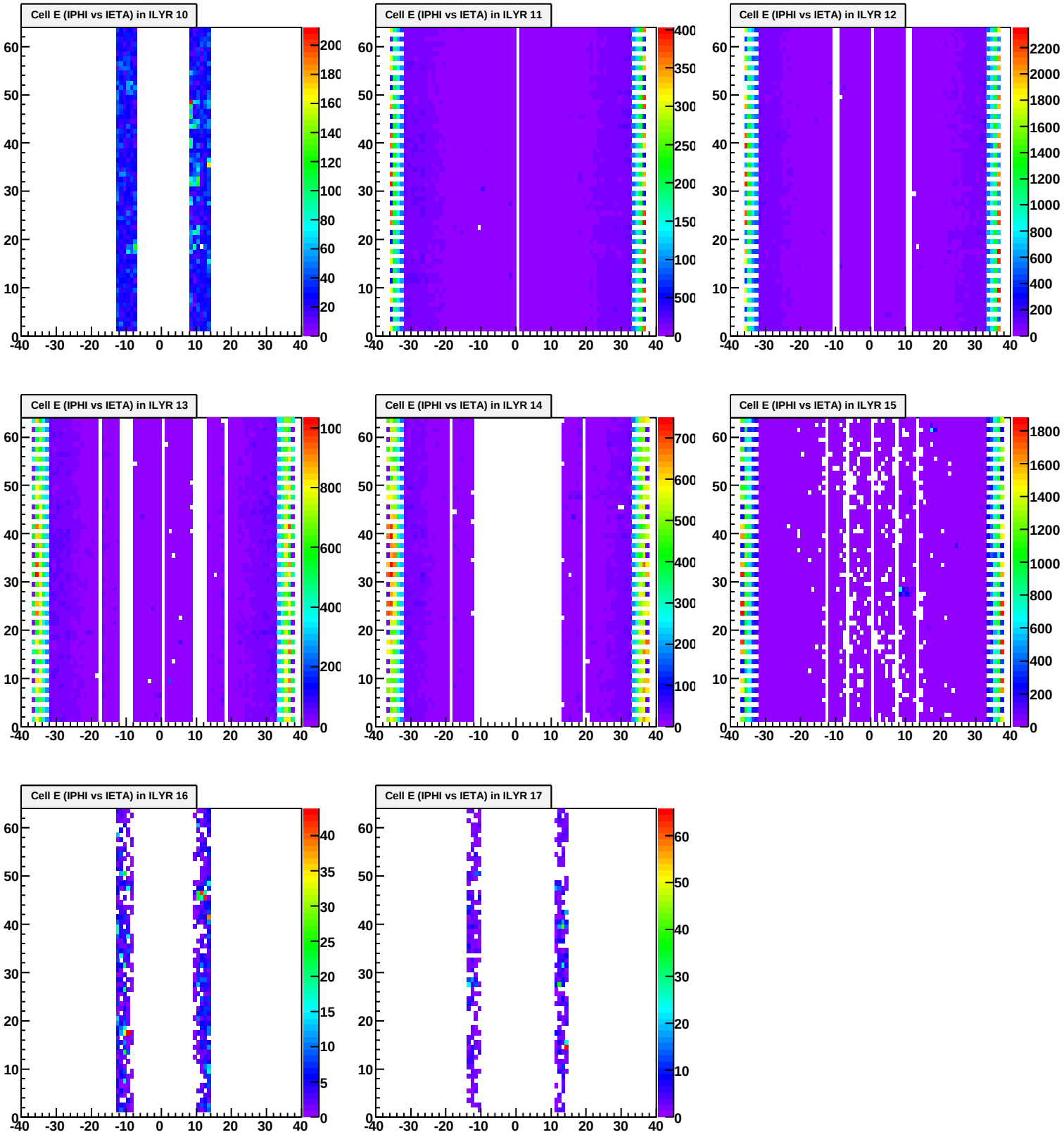
Calorimeter (All CC cells)



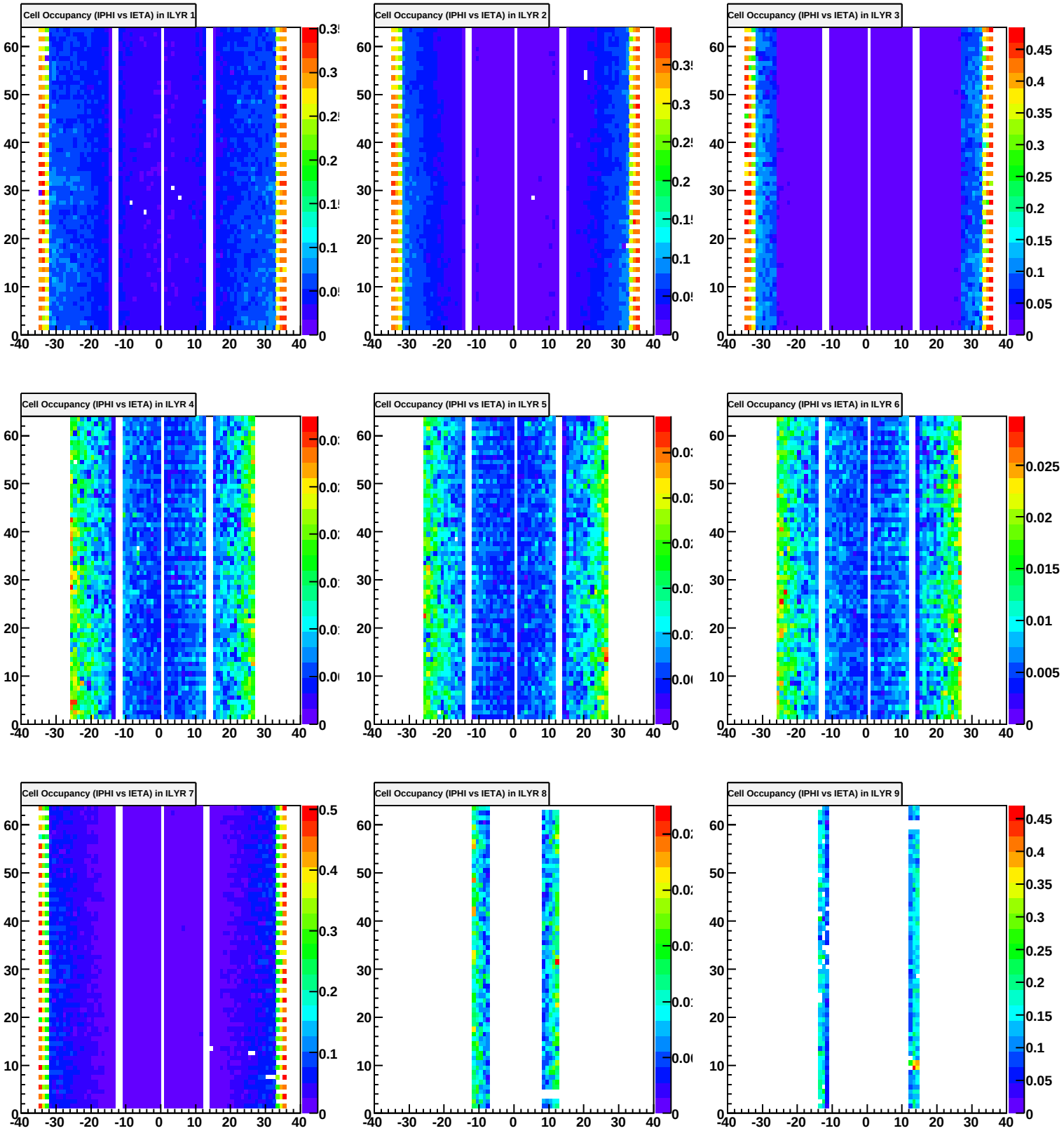
Calorimeter (All EC cells)



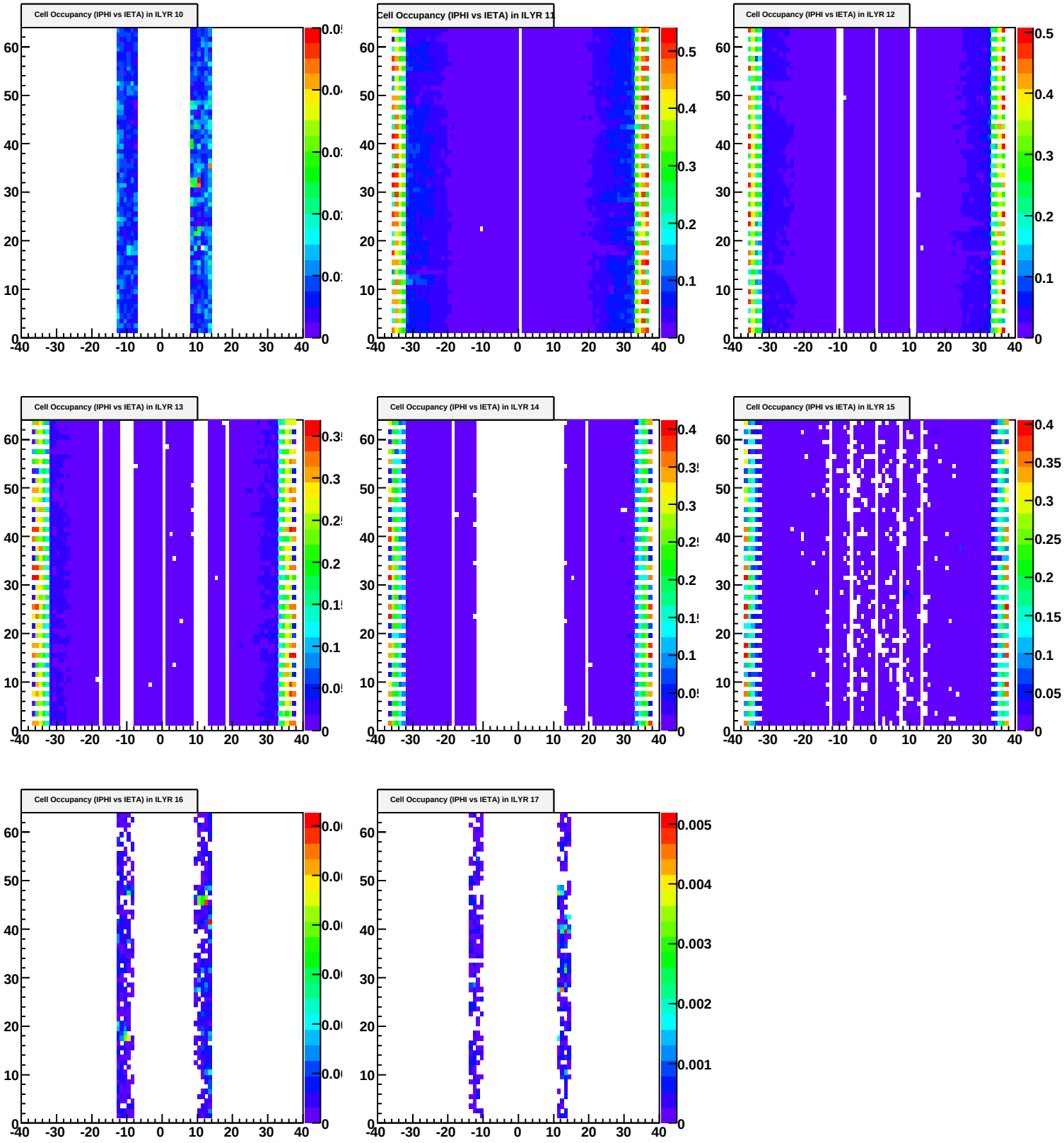
Calorimeter Cell Energy ILYR 1-9 (All cells)



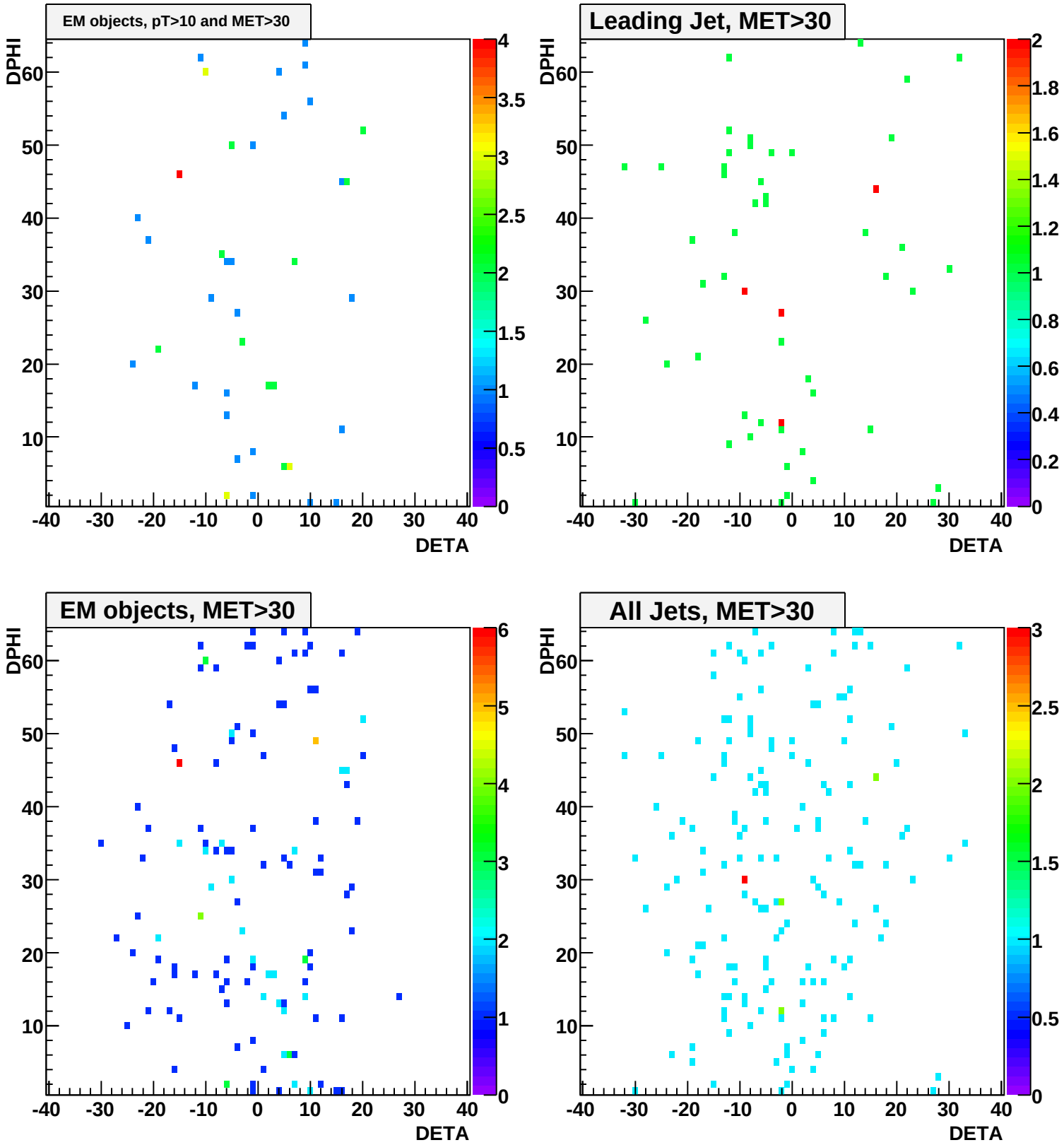
Calorimeter Cell Energy ILYR 10-17 (All cells)



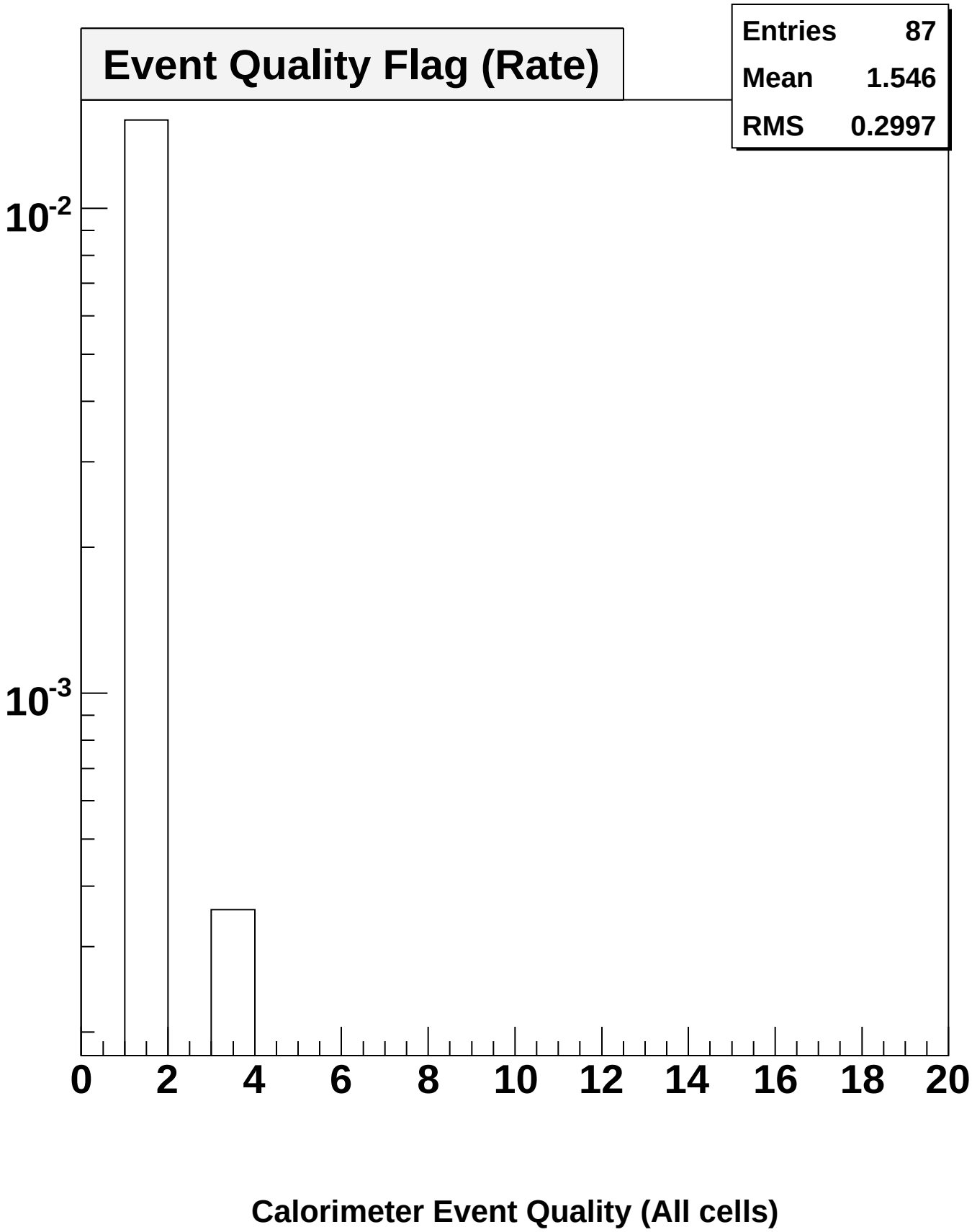
Calorimeter Occupancy ILYR 1-9 (All cells)

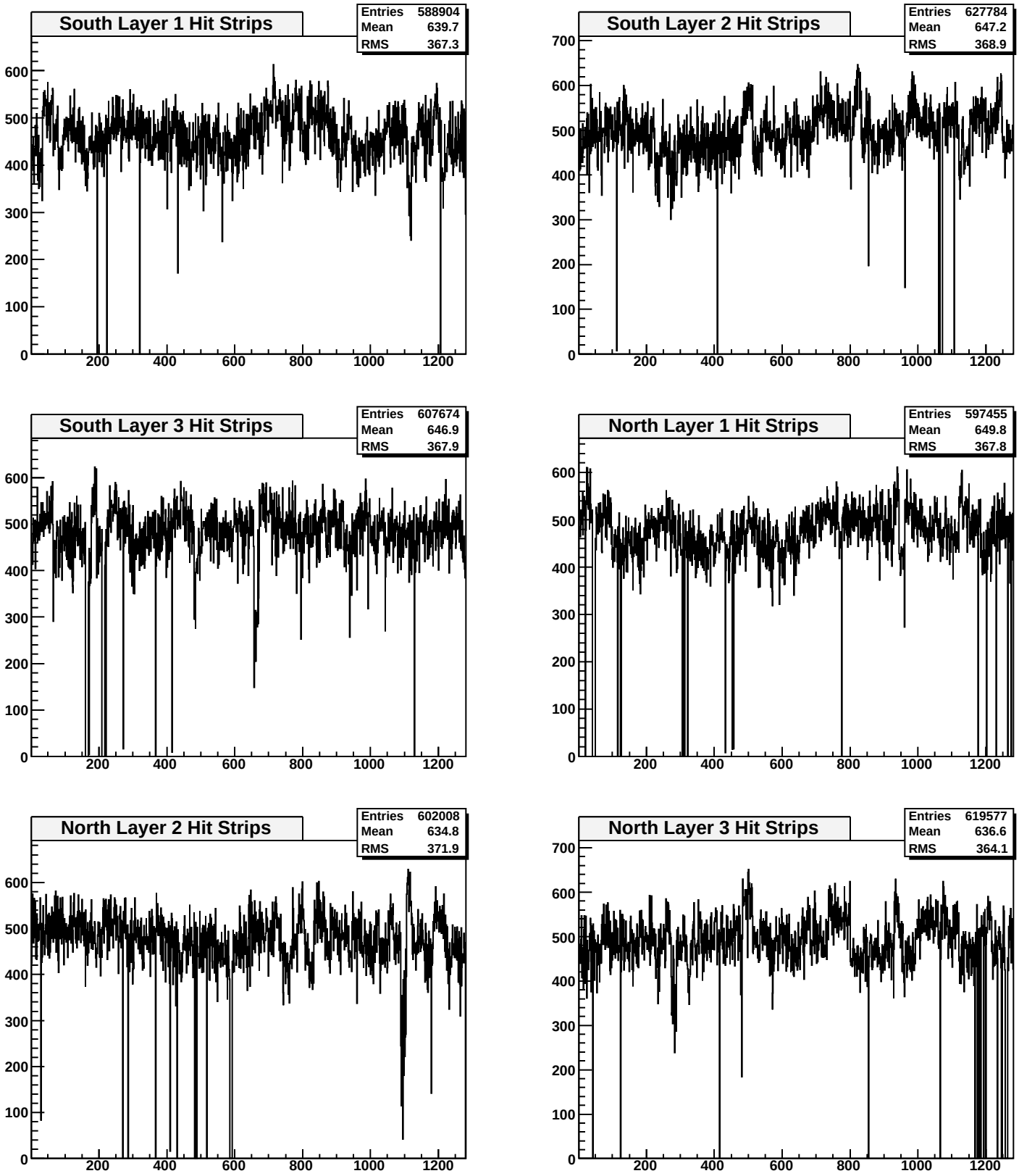


Calorimeter Occupancy ILYR 10-17 (All cells)

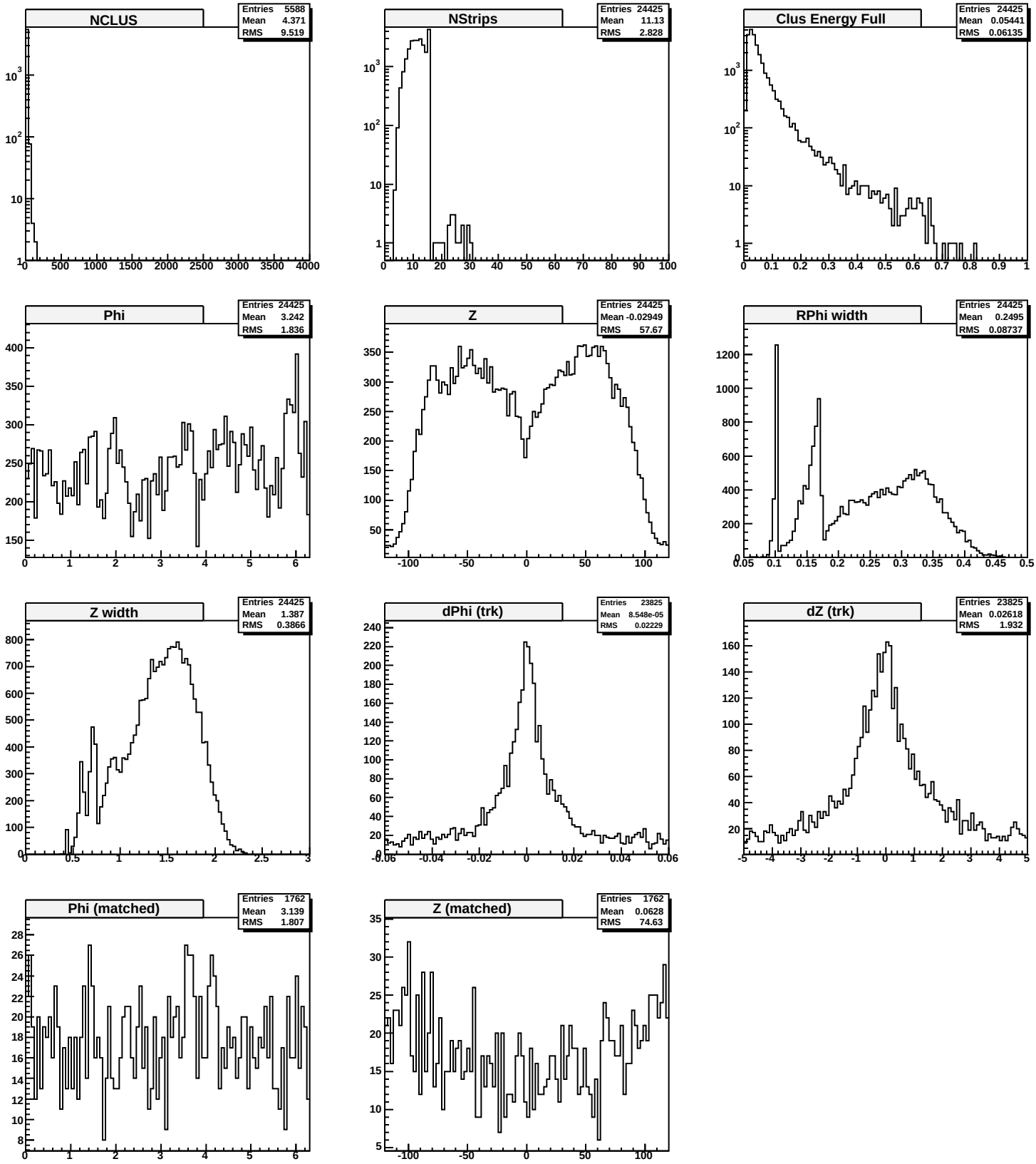


Cal Objects with MET>30 (All cells)

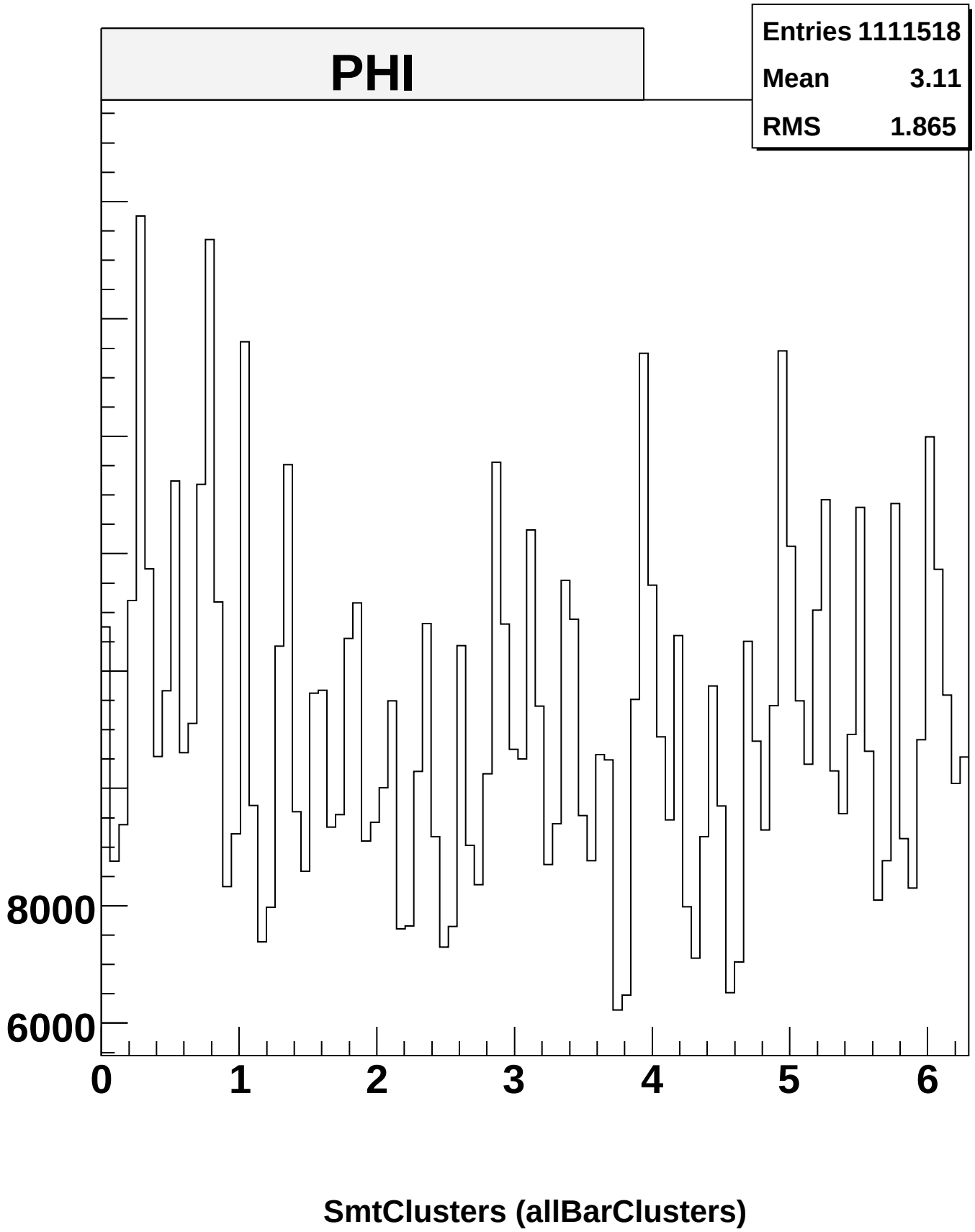

Event Quality Flag (Rate)
Entries 87
Mean 1.546
RMS 0.2997
10-2
10-3
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

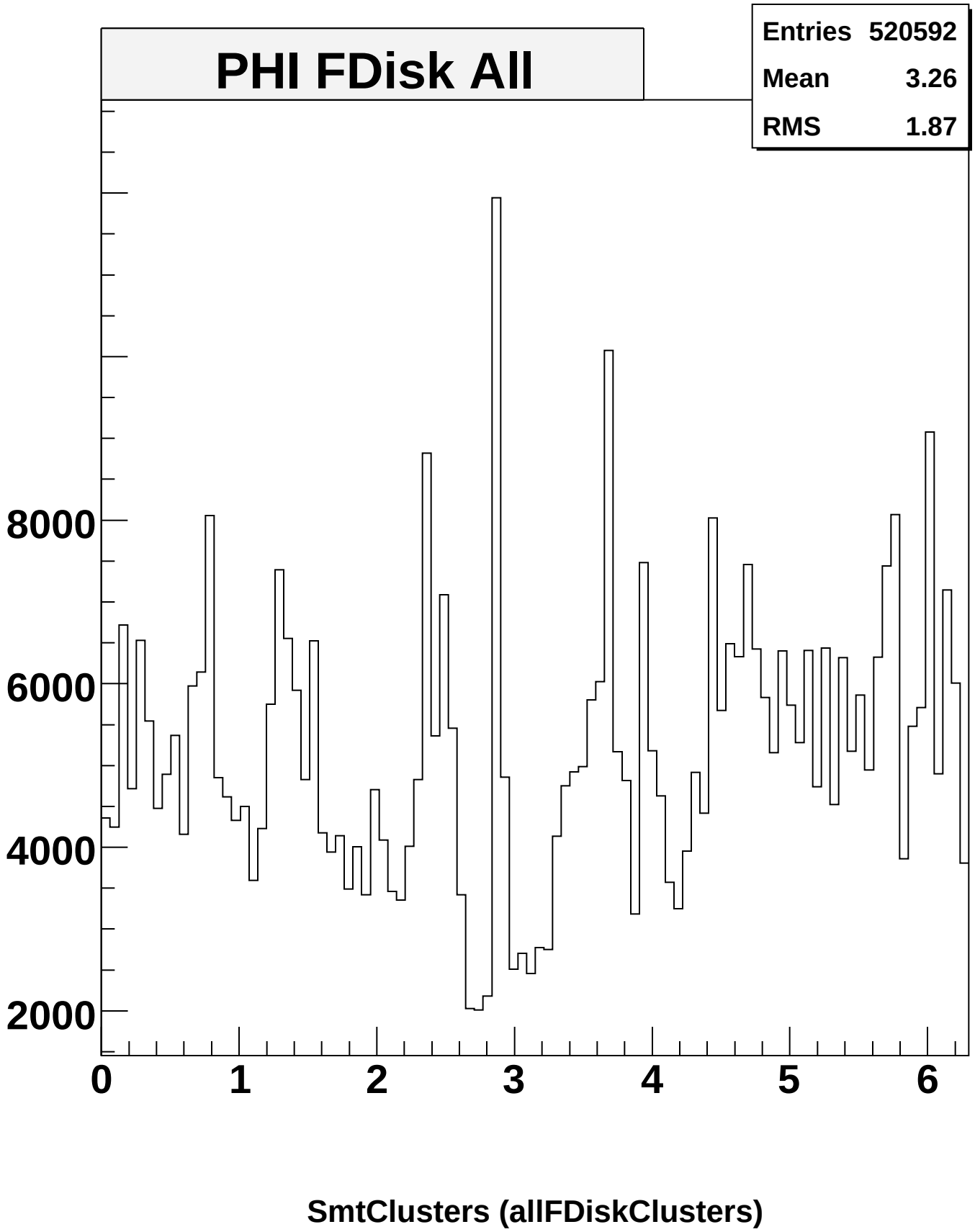


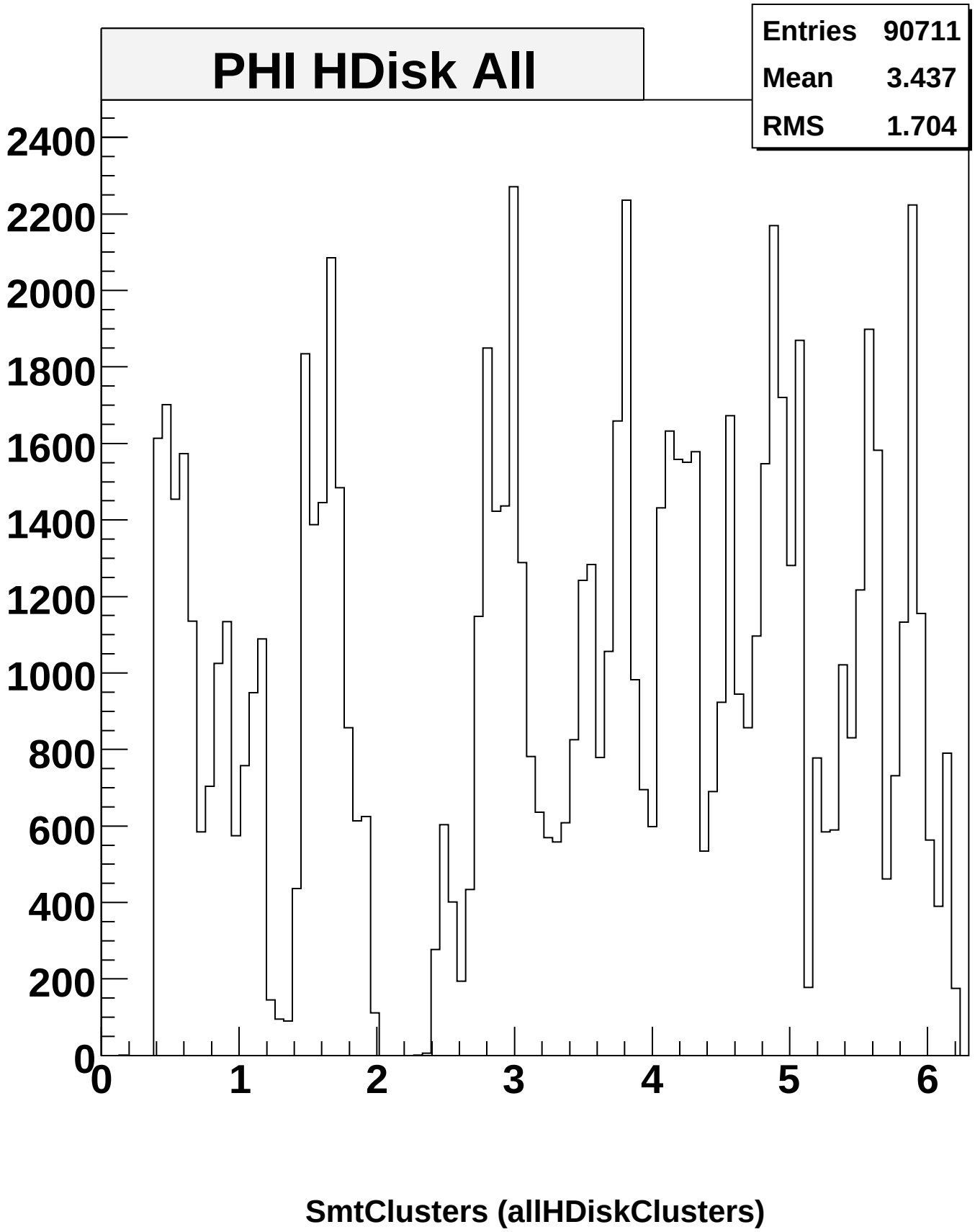
CPS Hit Strips (All Clusters)

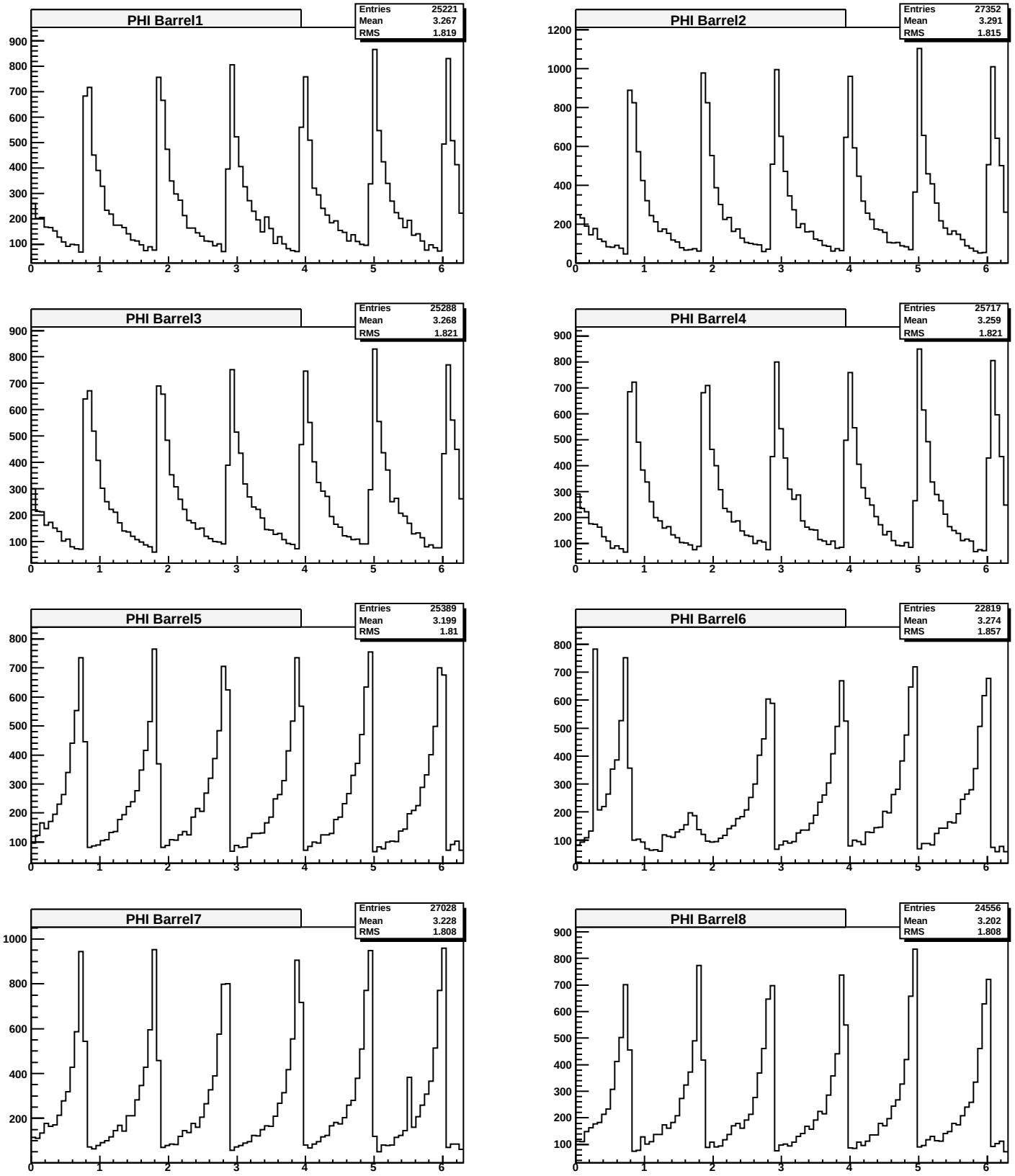


CPS Clusters (All Clusters)

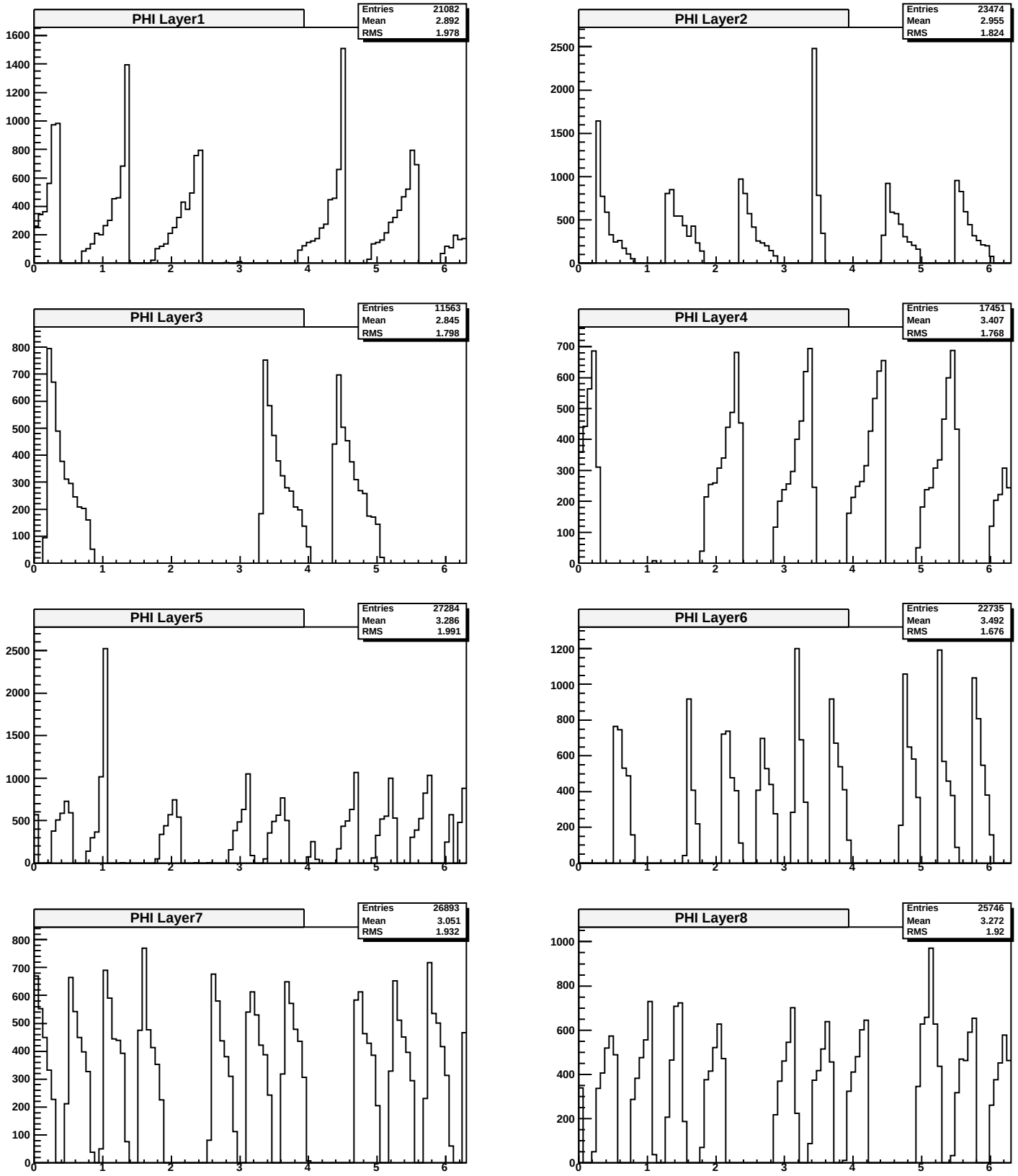

PHI
Entries 1111518
Mean 3.11
RMS 1.865
8000
6000
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 520592
Mean 3.26
RMS 1.87
8000
6000
4000
2000
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

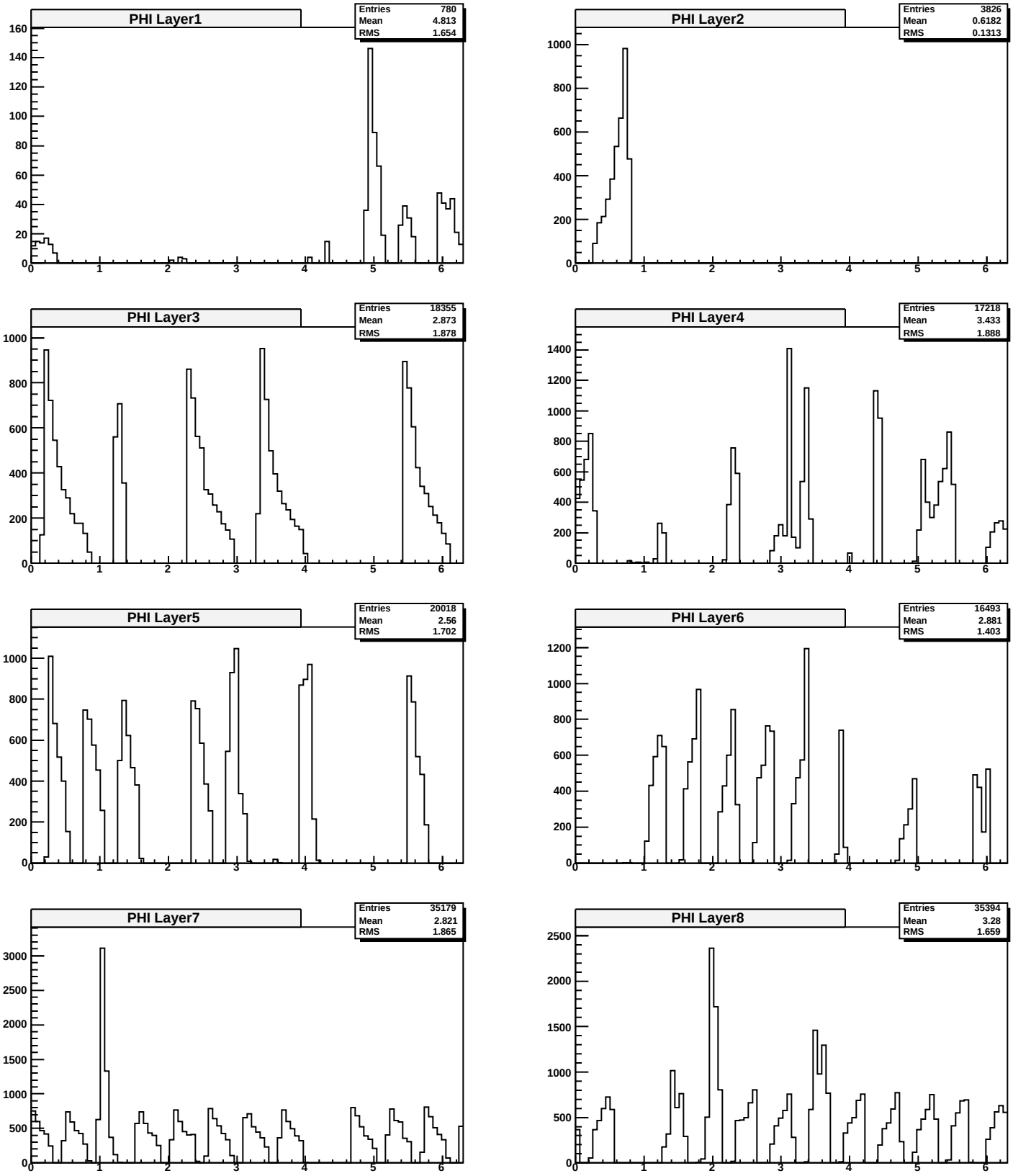

PHI HDisk All
Entries 90711
Mean 3.437
RMS 1.704
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



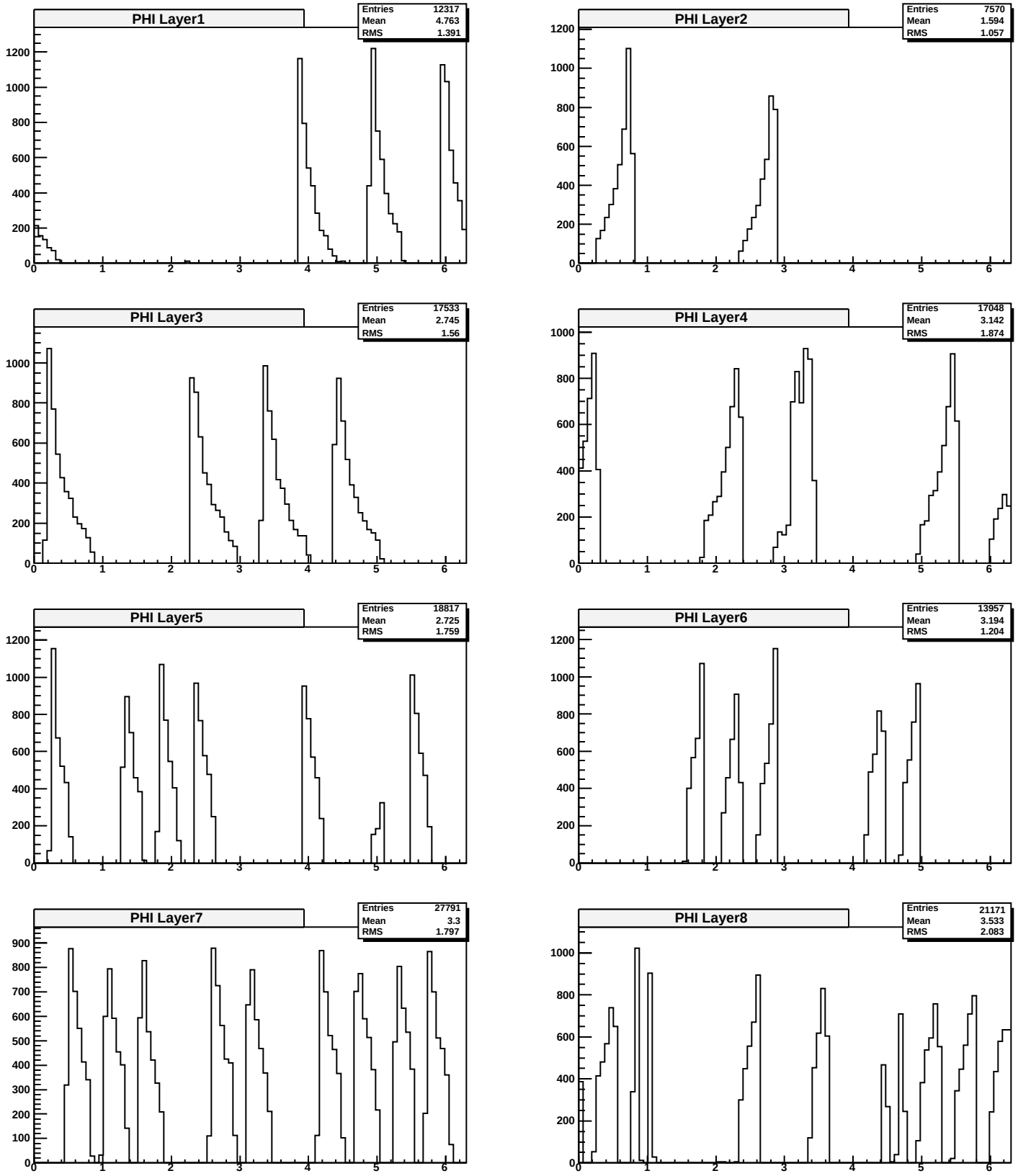
SmtClusters (ClustrLayer0)



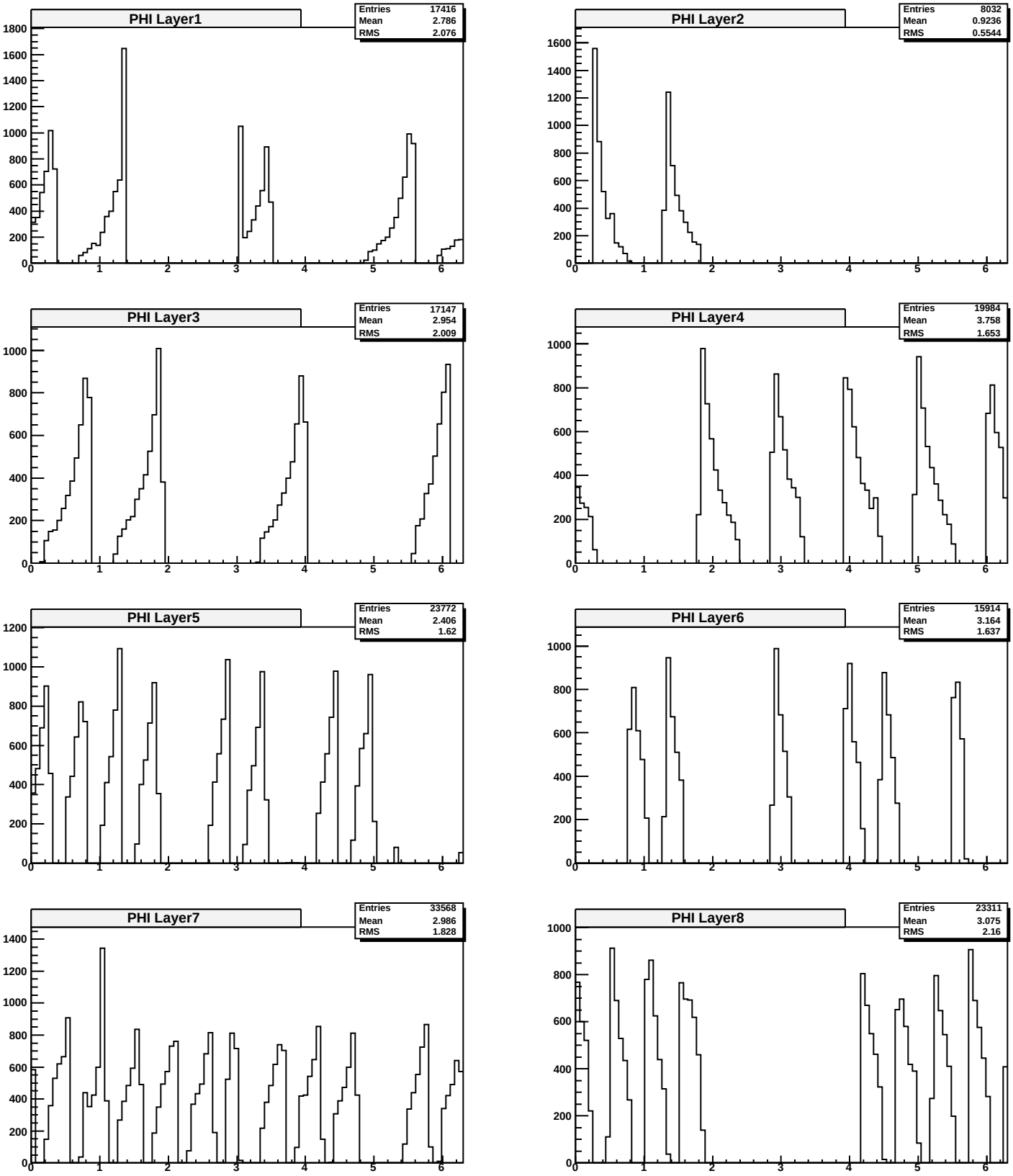
SmtClusters (ClustrBar1)



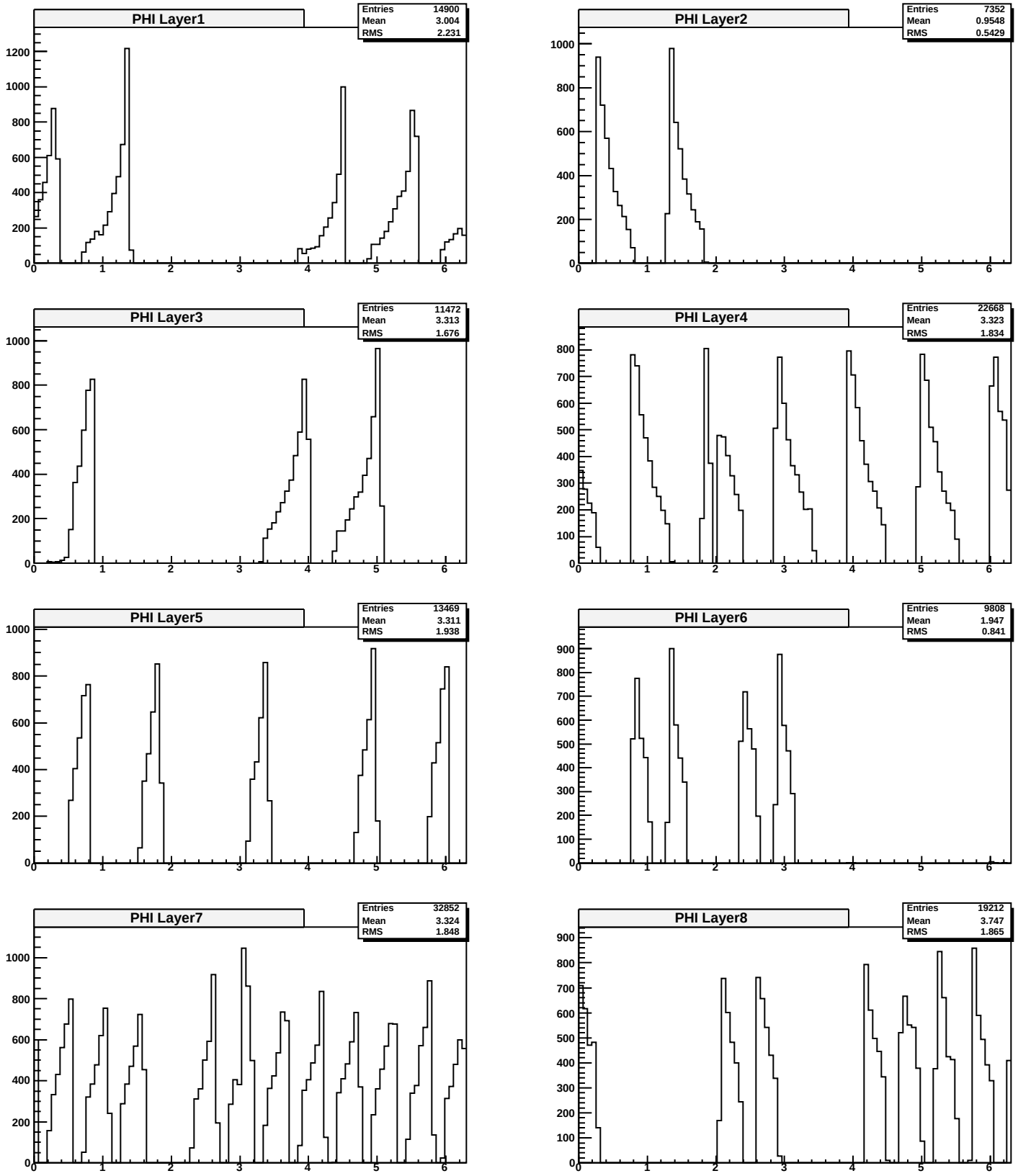
SmtClusters (ClustrBar2)



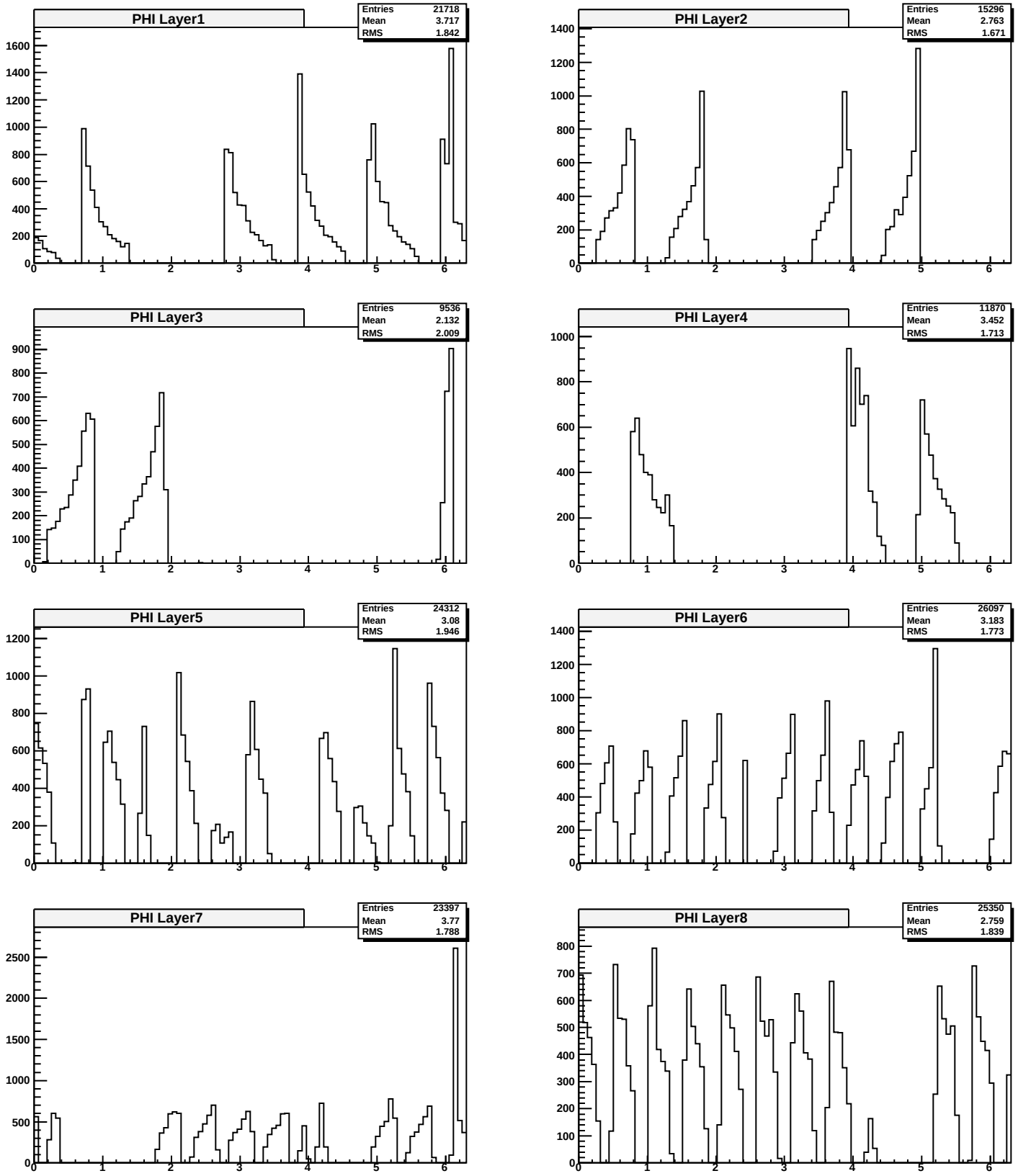
SmtClusters (ClustrBar3)



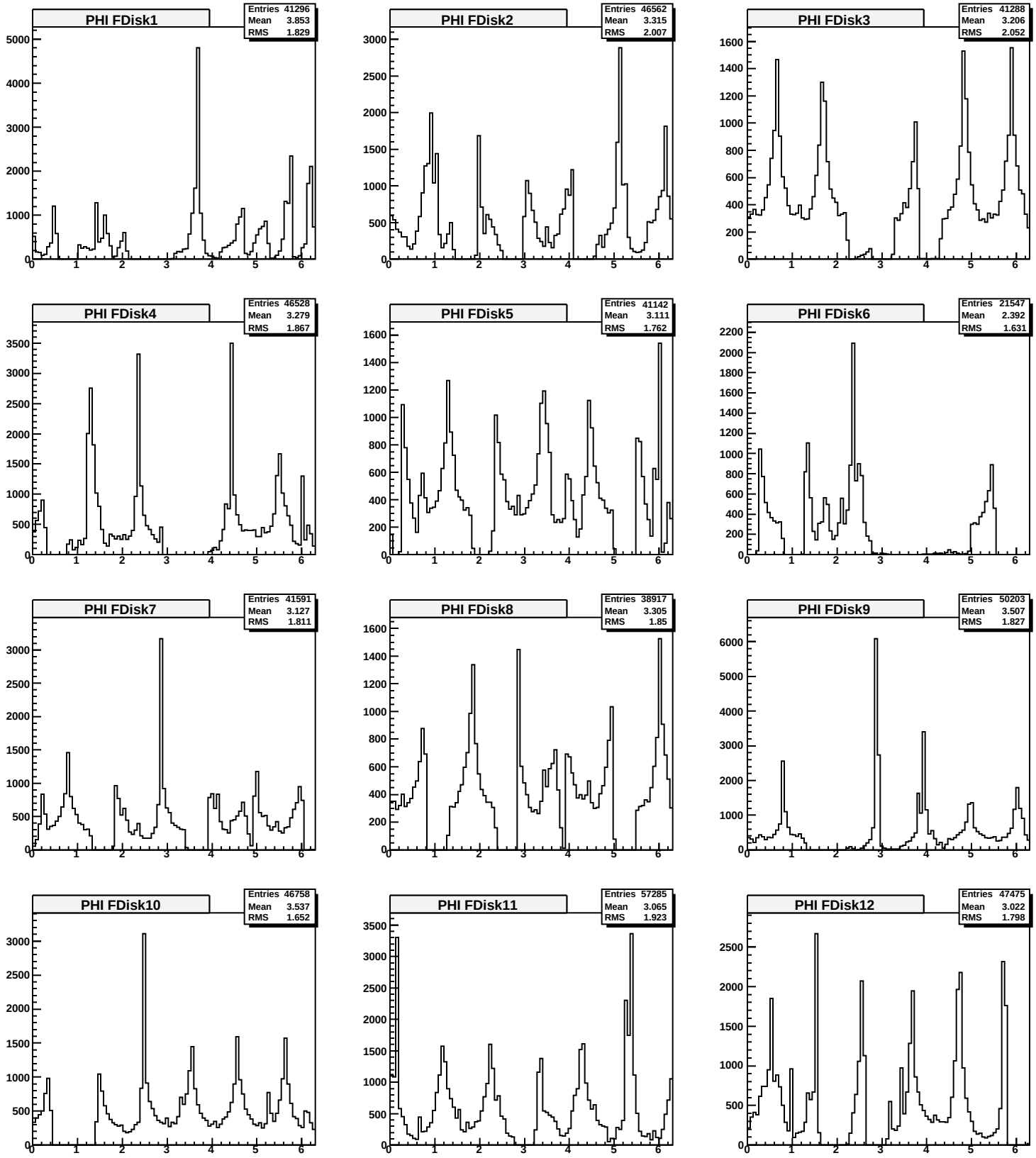
SmtClusters (ClustrBar4)



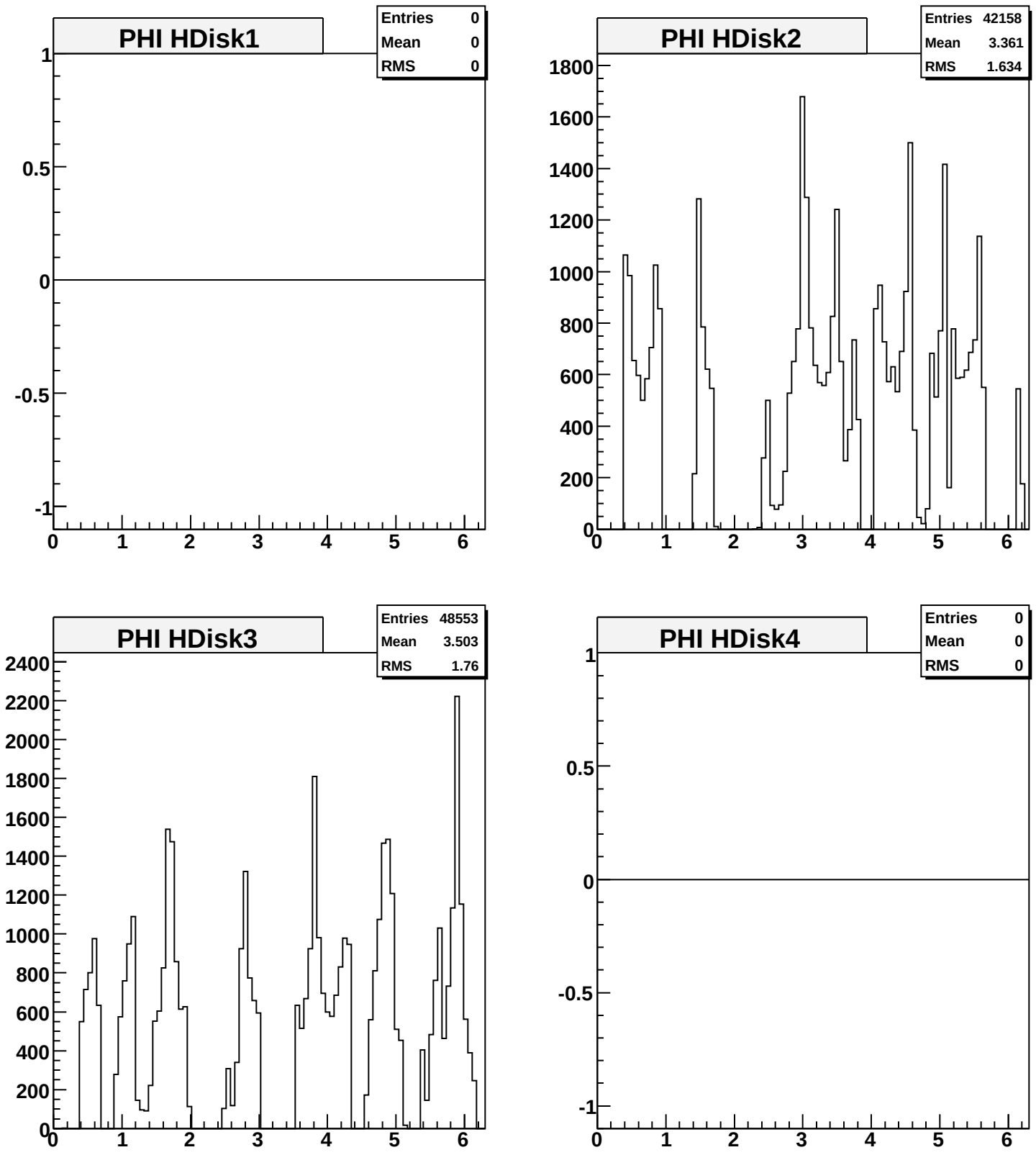
SmtClusters (ClustrBar5)



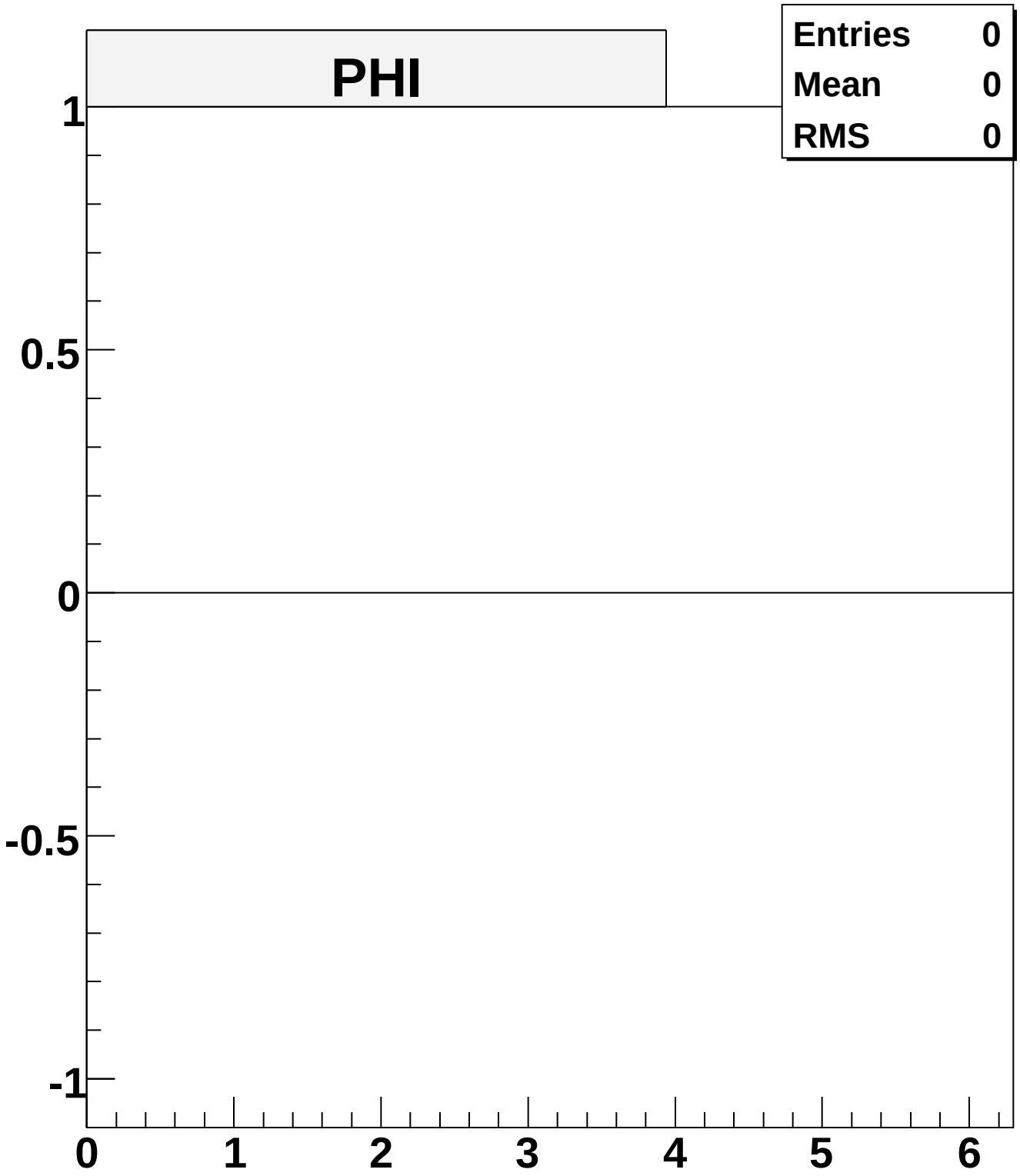
SmtClusters (ClustrBar6)



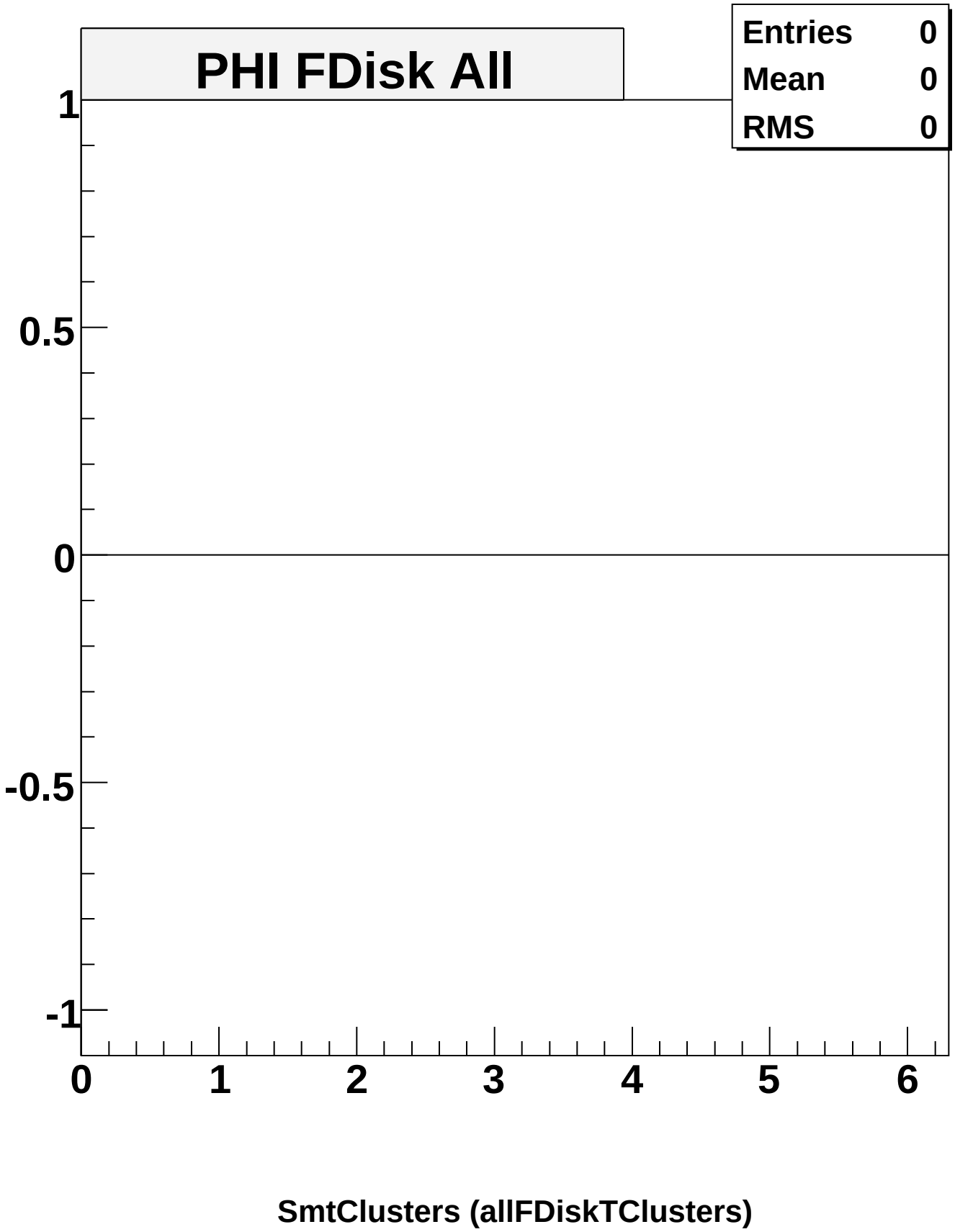
SmtClusters (FDiskClusters)

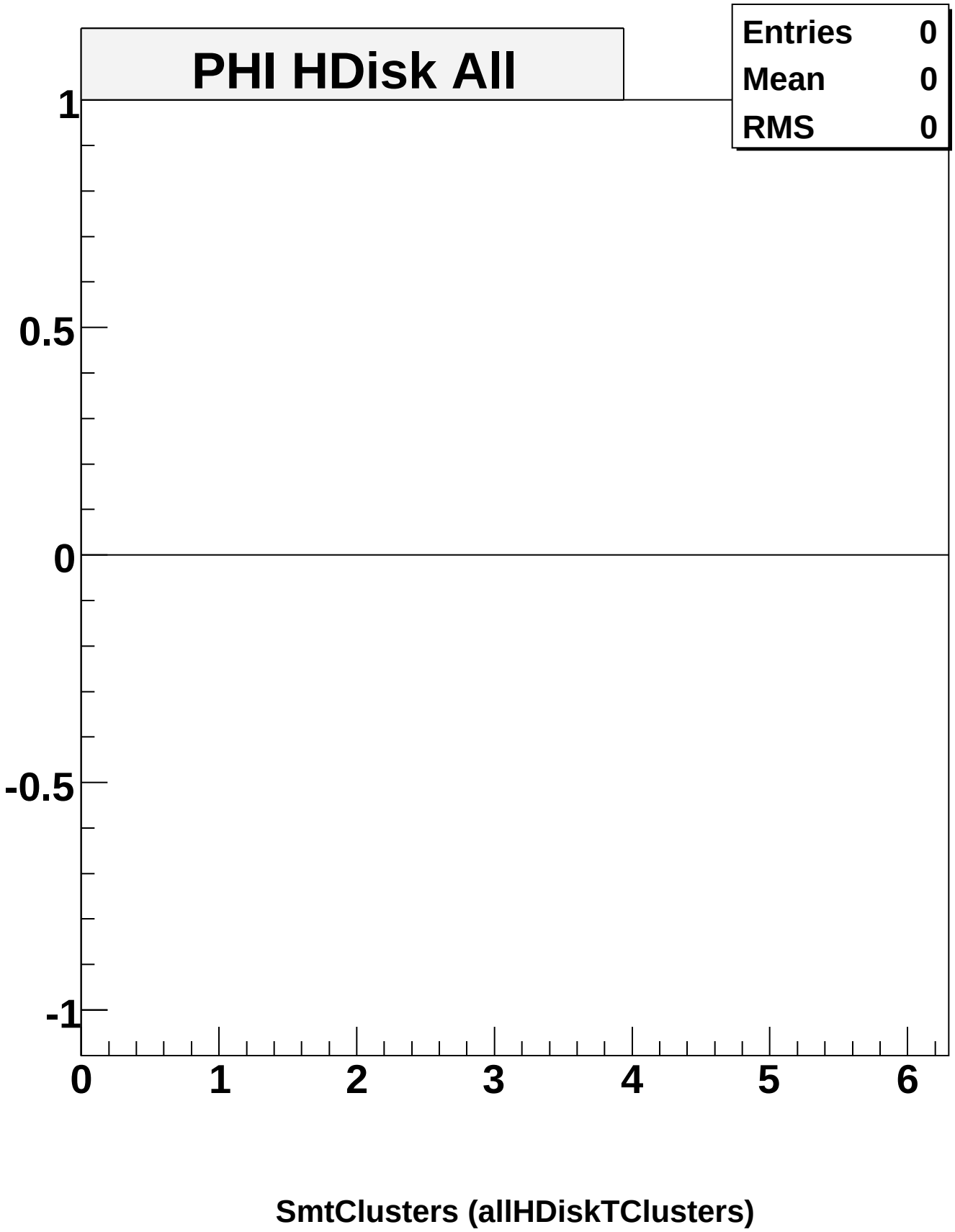


SmtClusters (HDiskClusters)



SmtClusters (allBarTClusters)


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


PHI HDisk All
Entries 0
Mean 0
RMS 0
1
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-1
0
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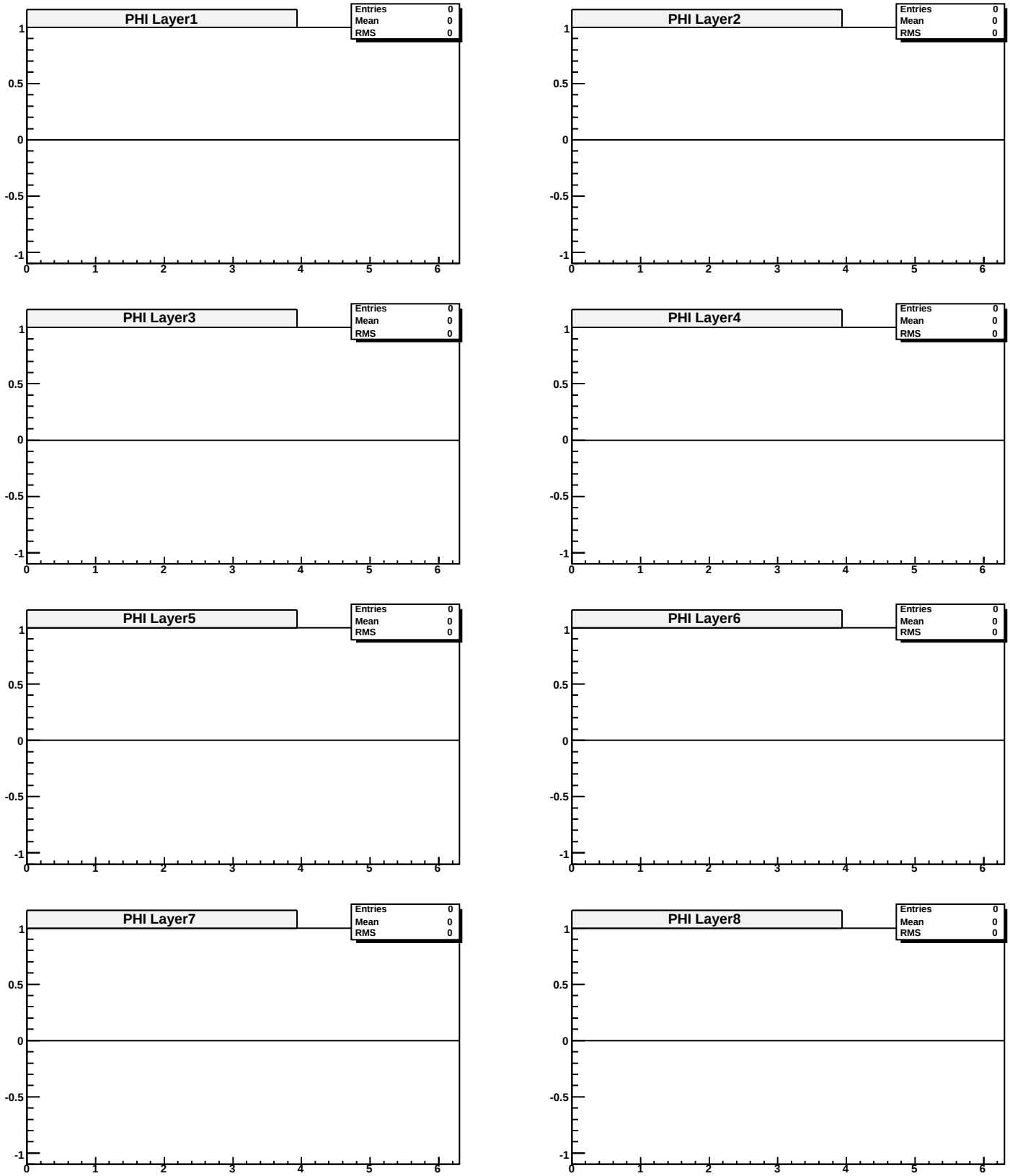
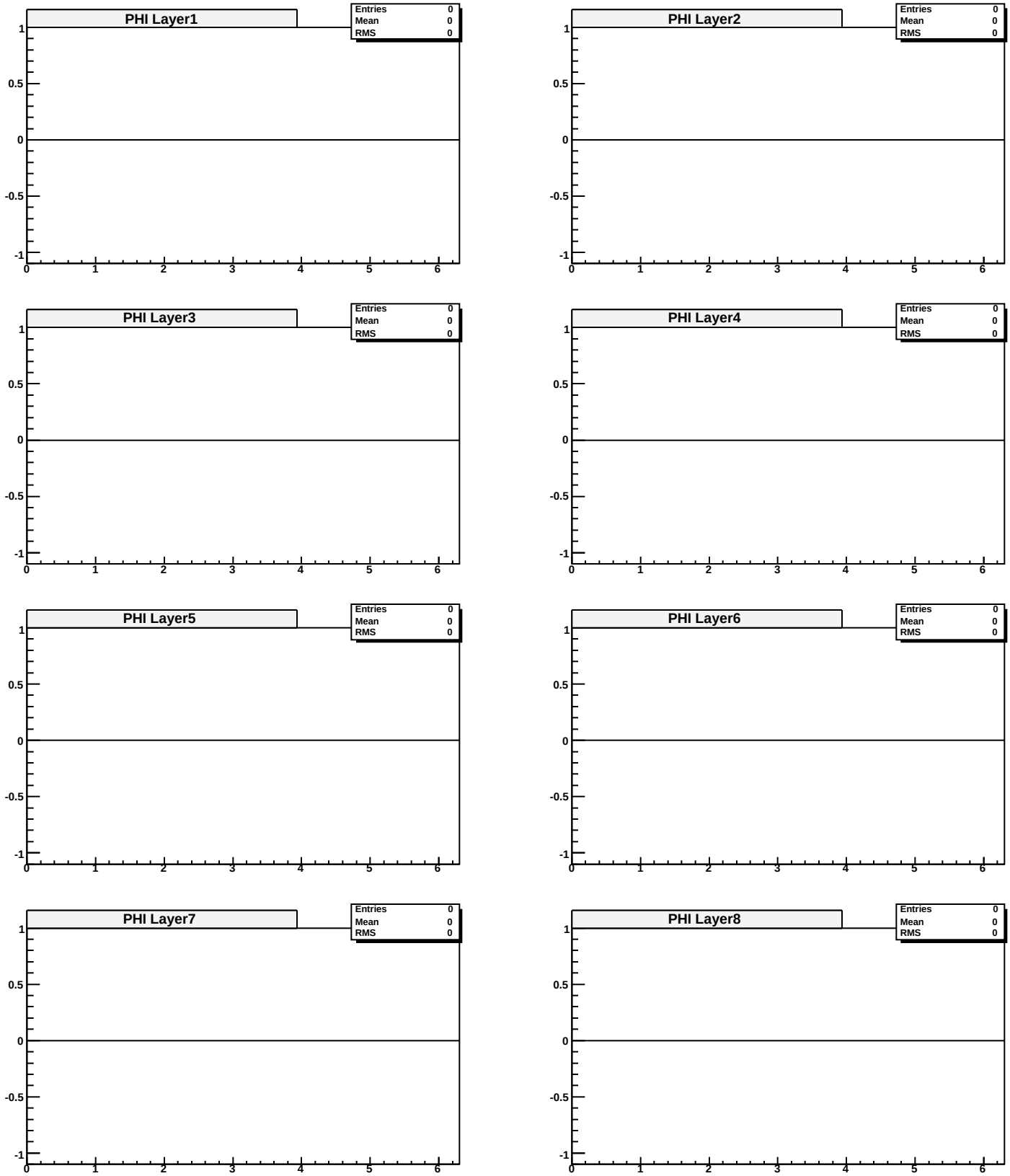
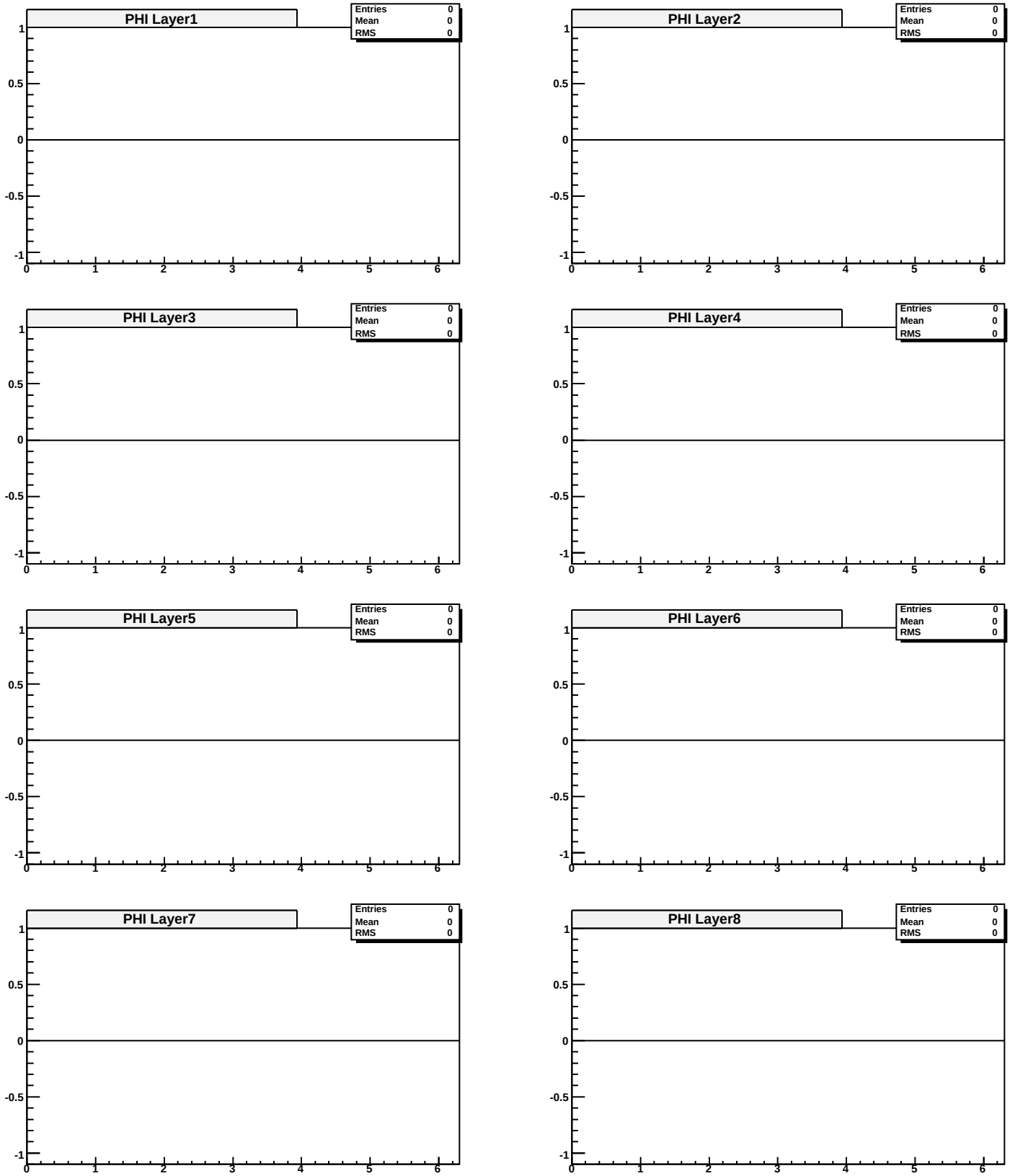
3
4
5
6
SmtClusters (allHDiskTClusters)



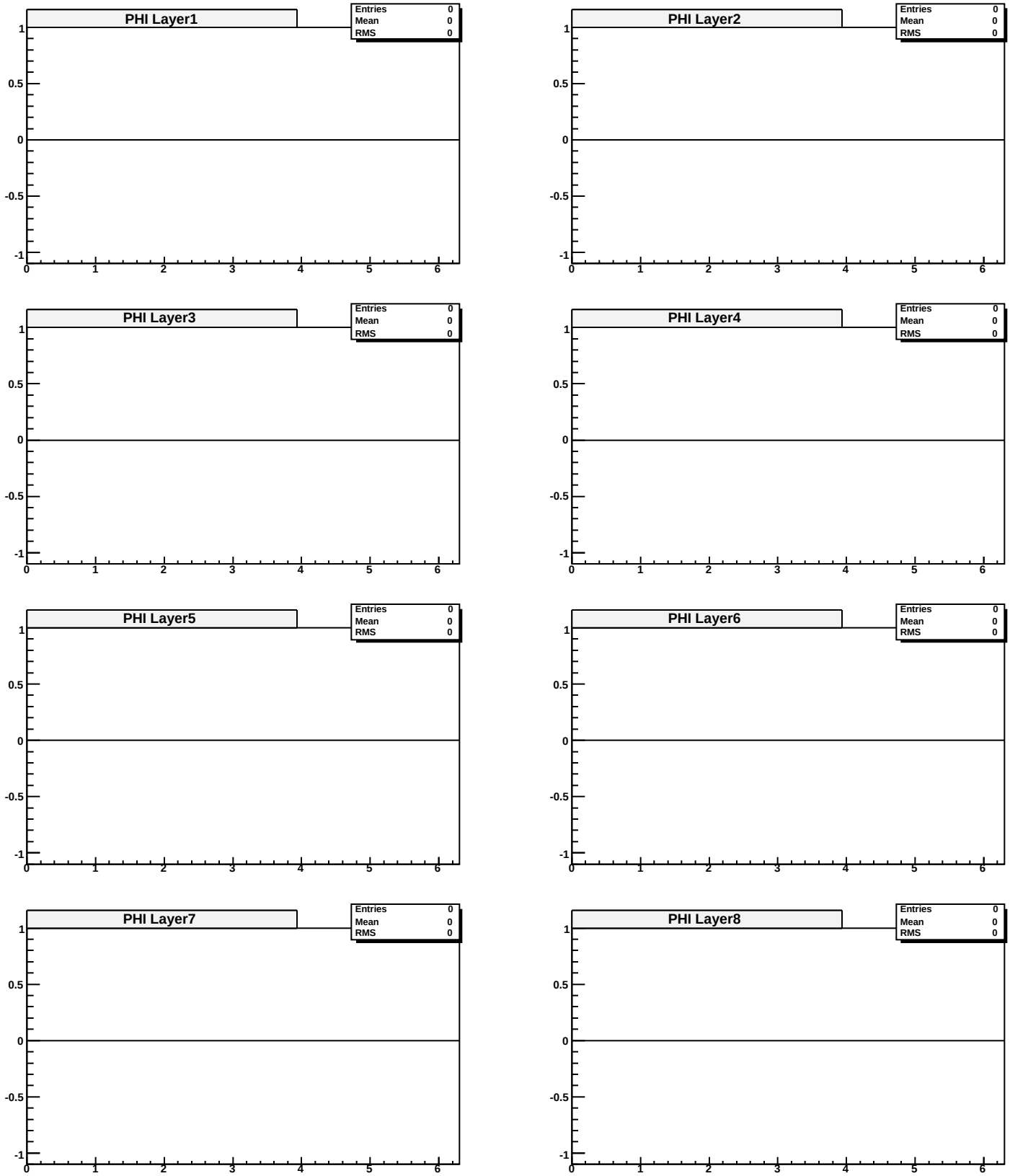
SmtClusters (TClustrBar1)



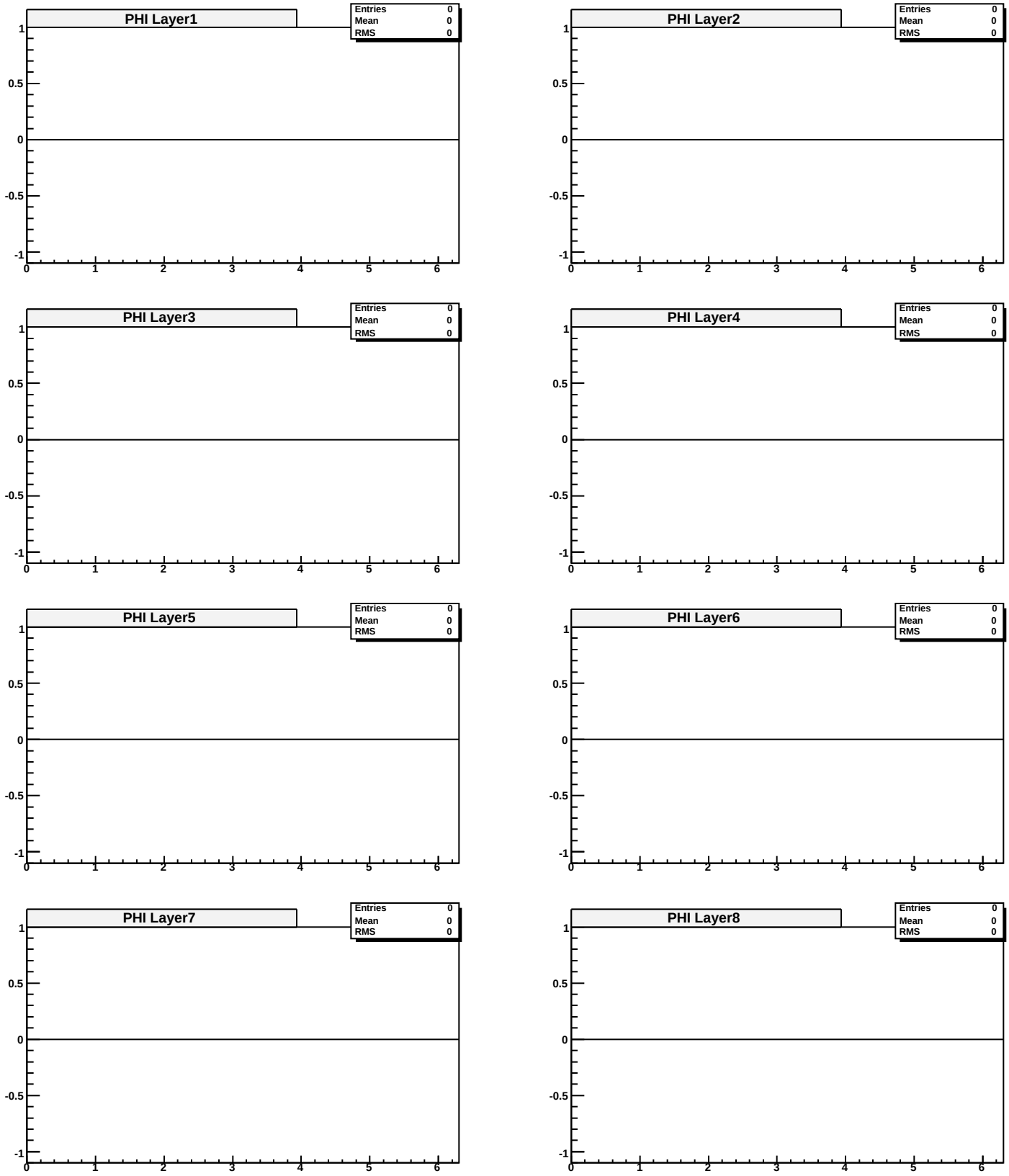
SmtClusters (TClustrBar2)



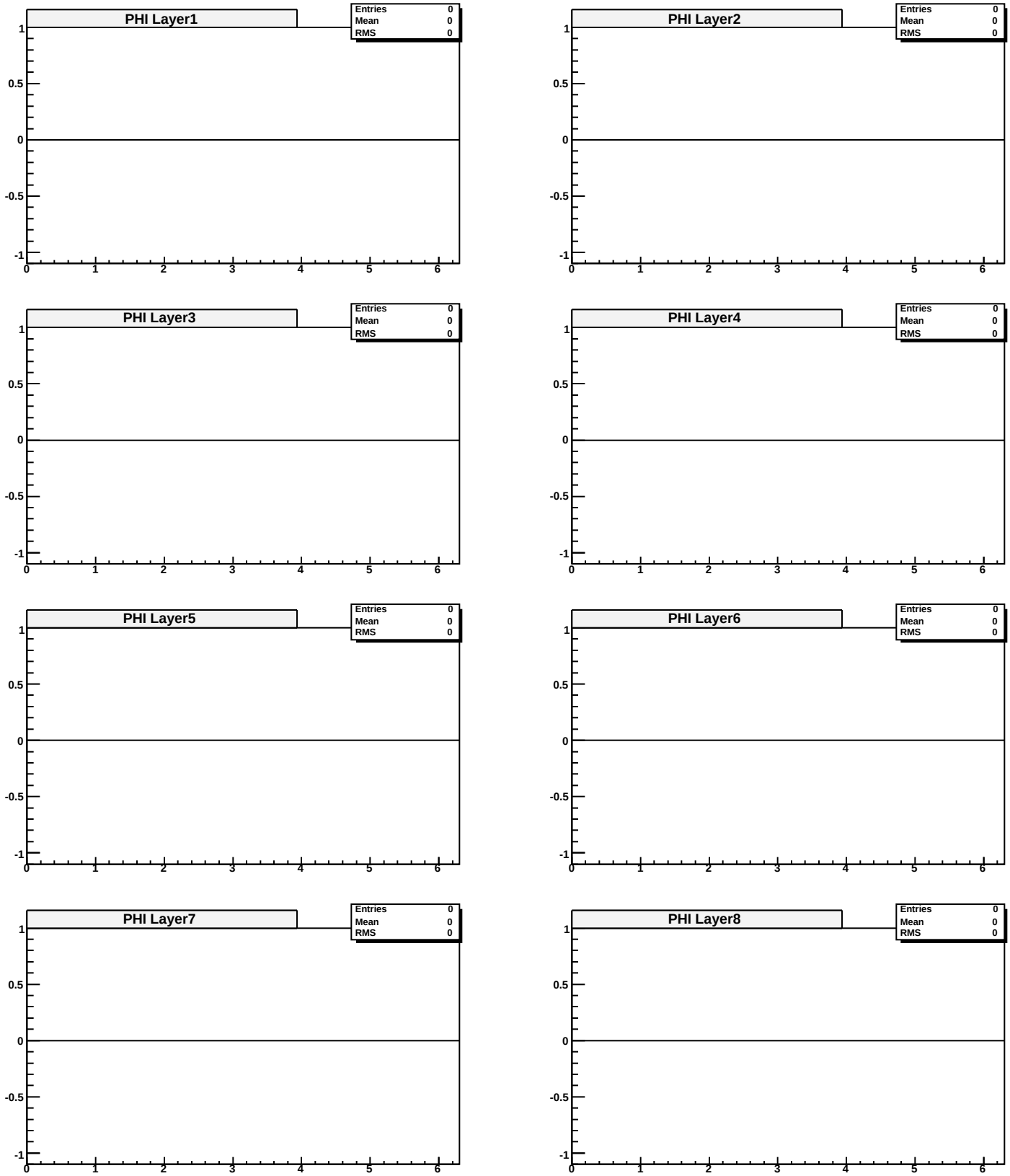
SmtClusters (TClustrBar3)



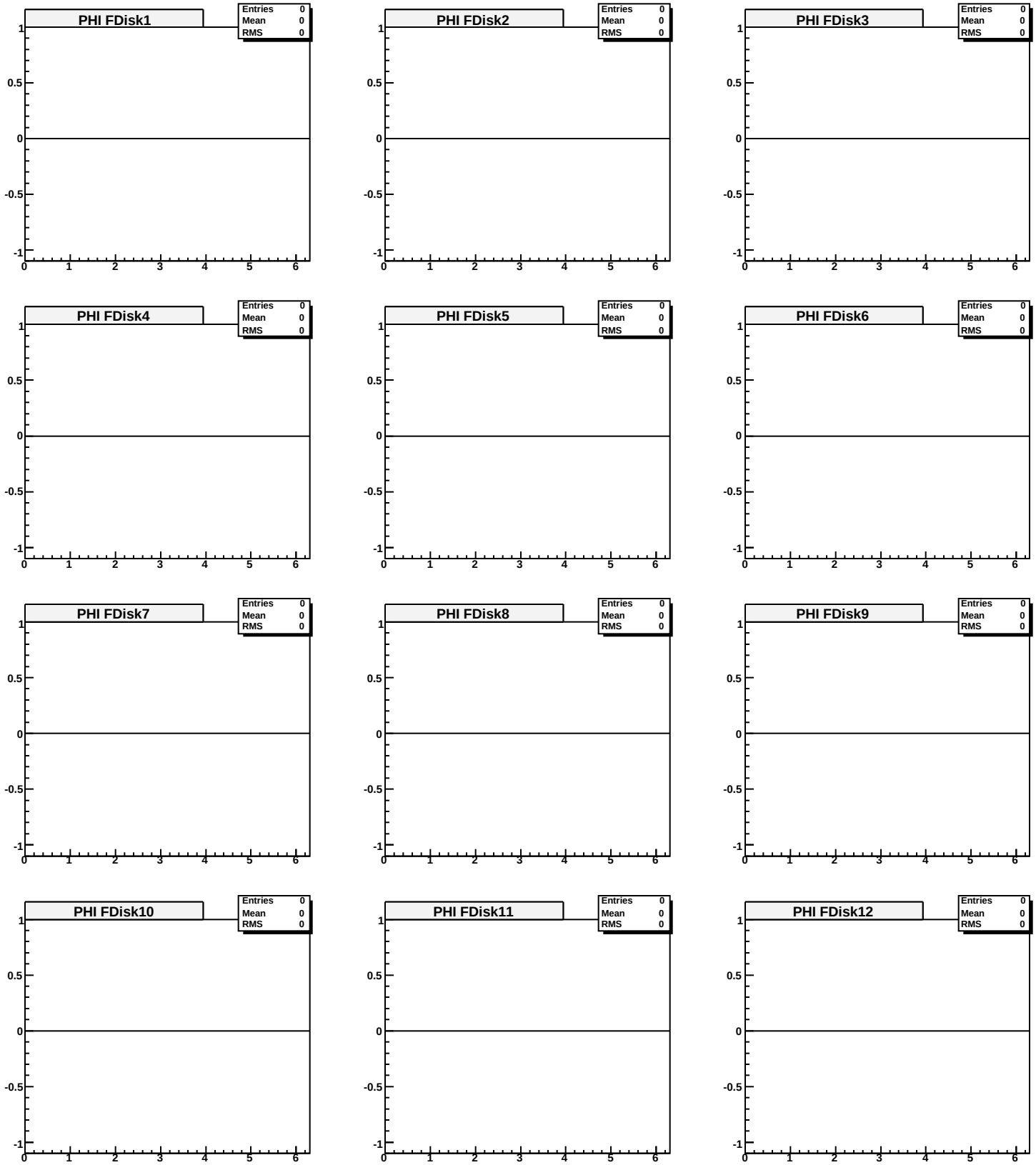
SmtClusters (TClustrBar4)



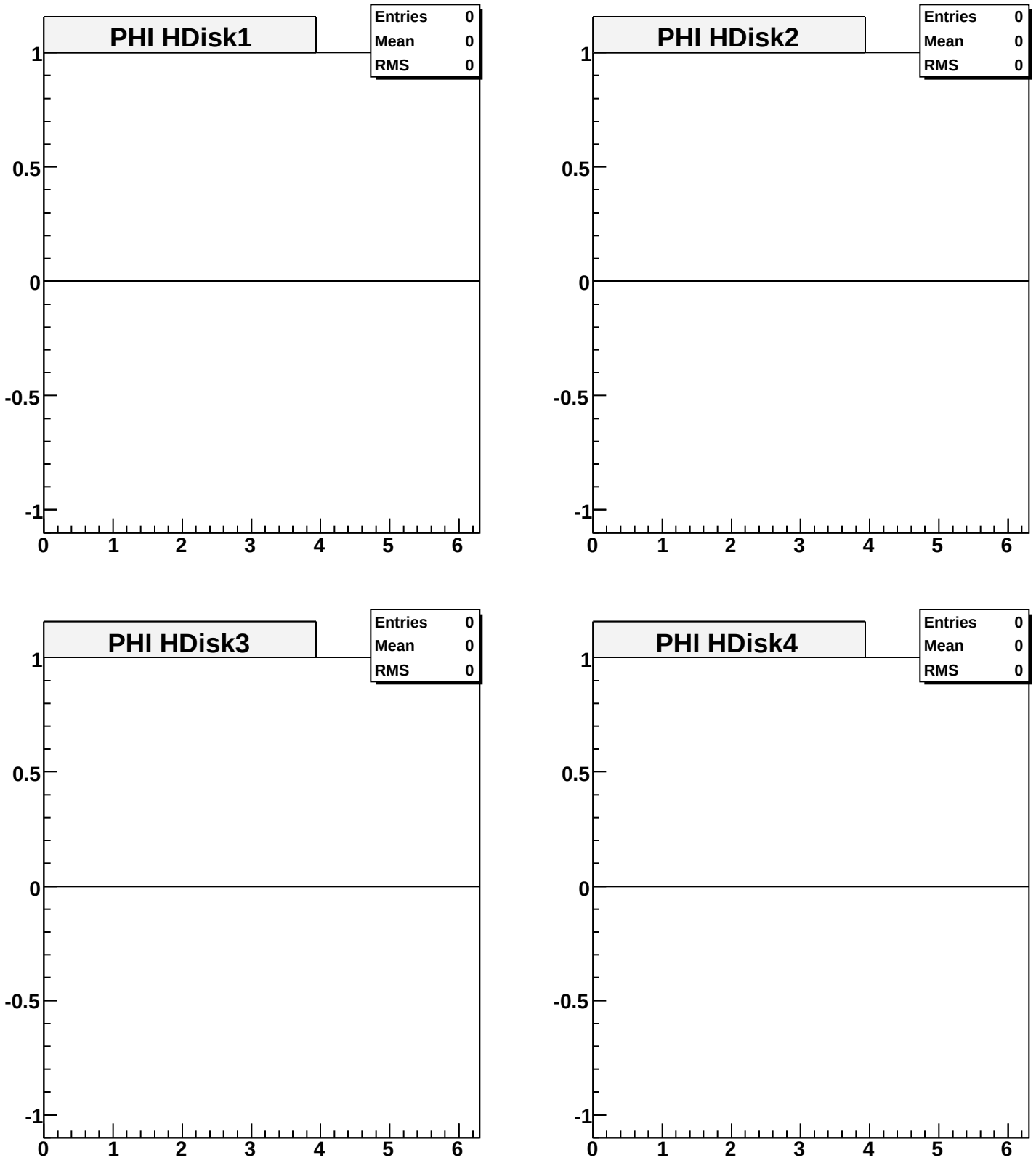
SmtClusters (TClustrBar5)



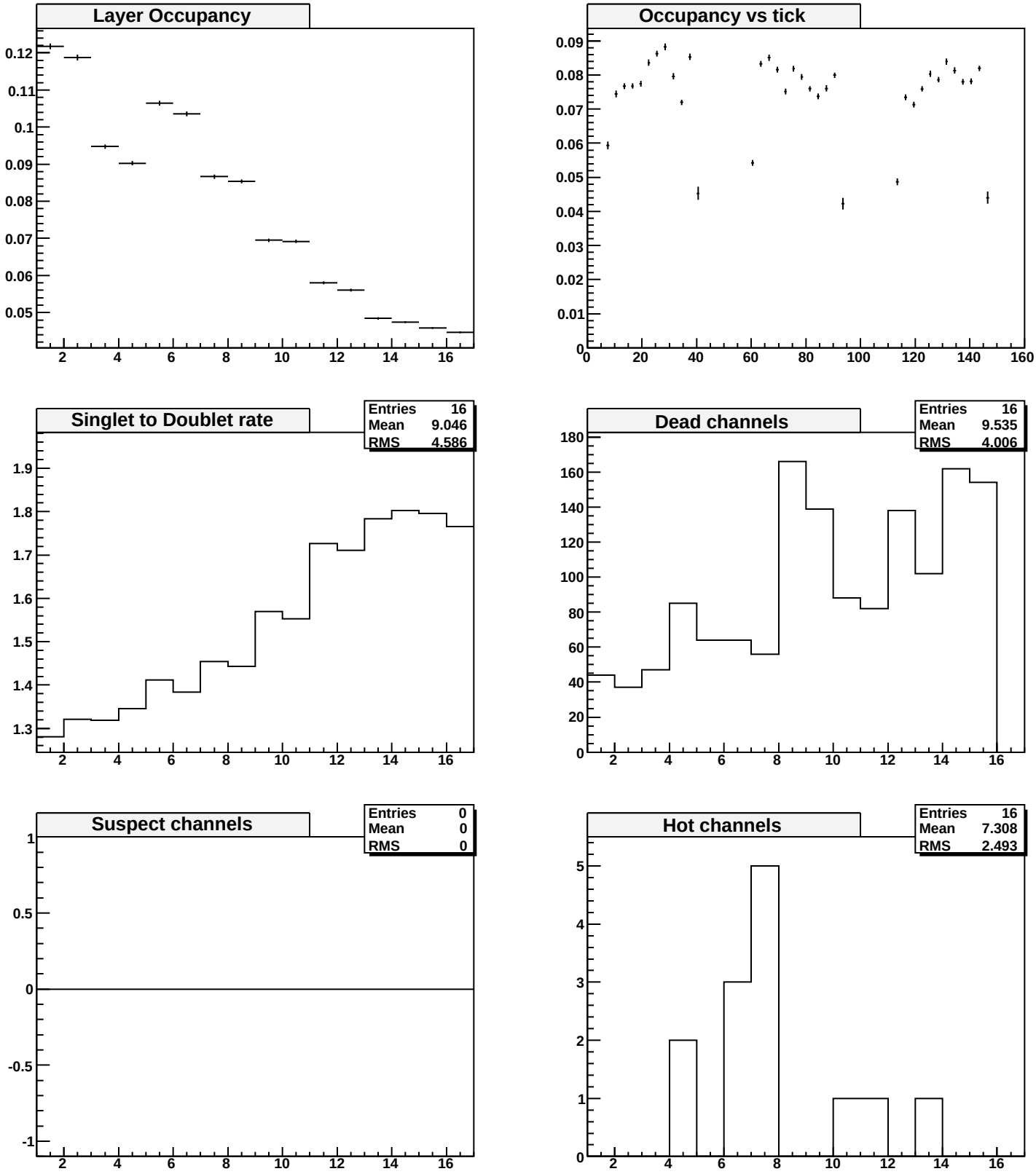
SmtClusters (TClustrBar6)



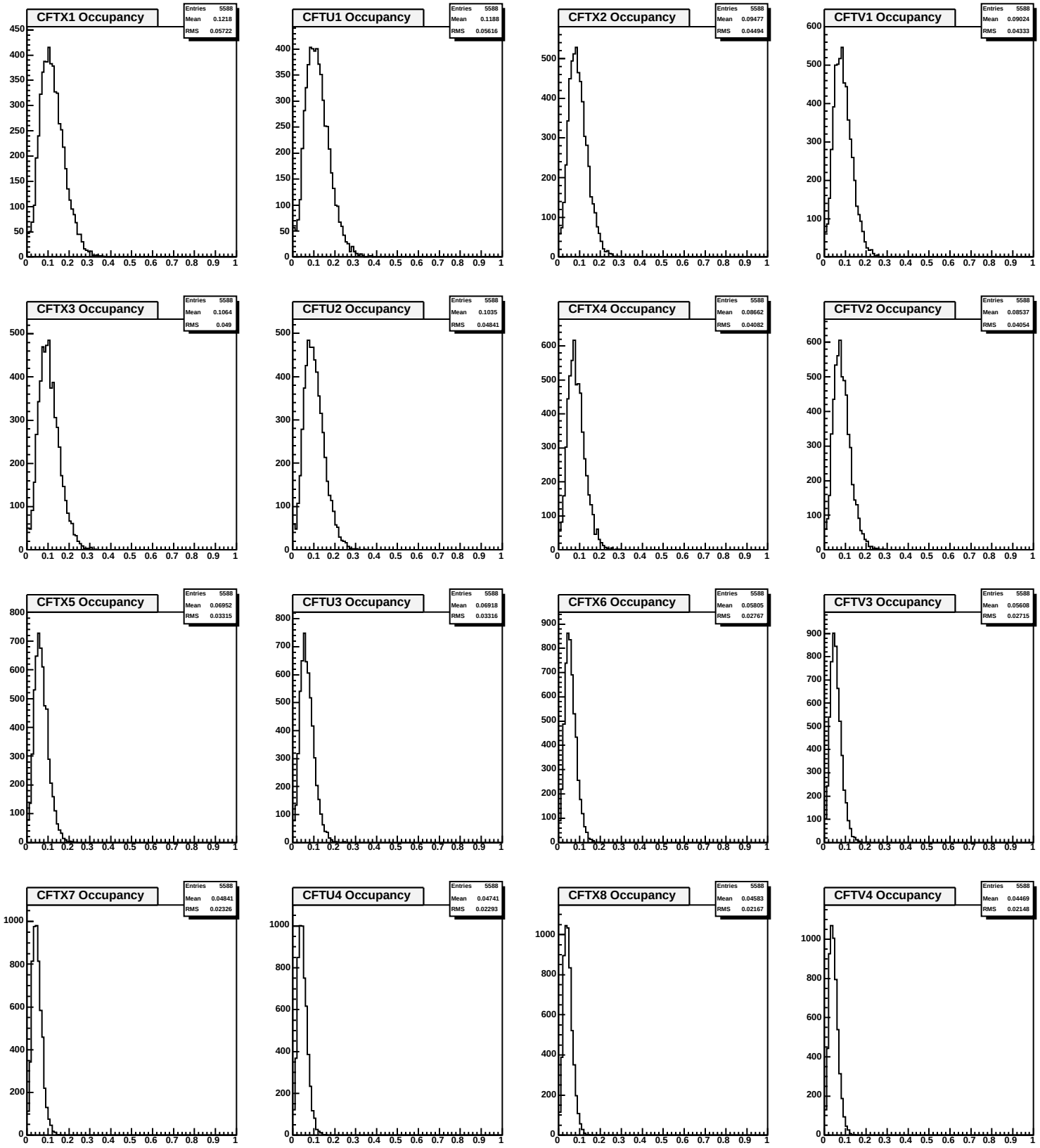
SmtClusters (FDiskTClusters)



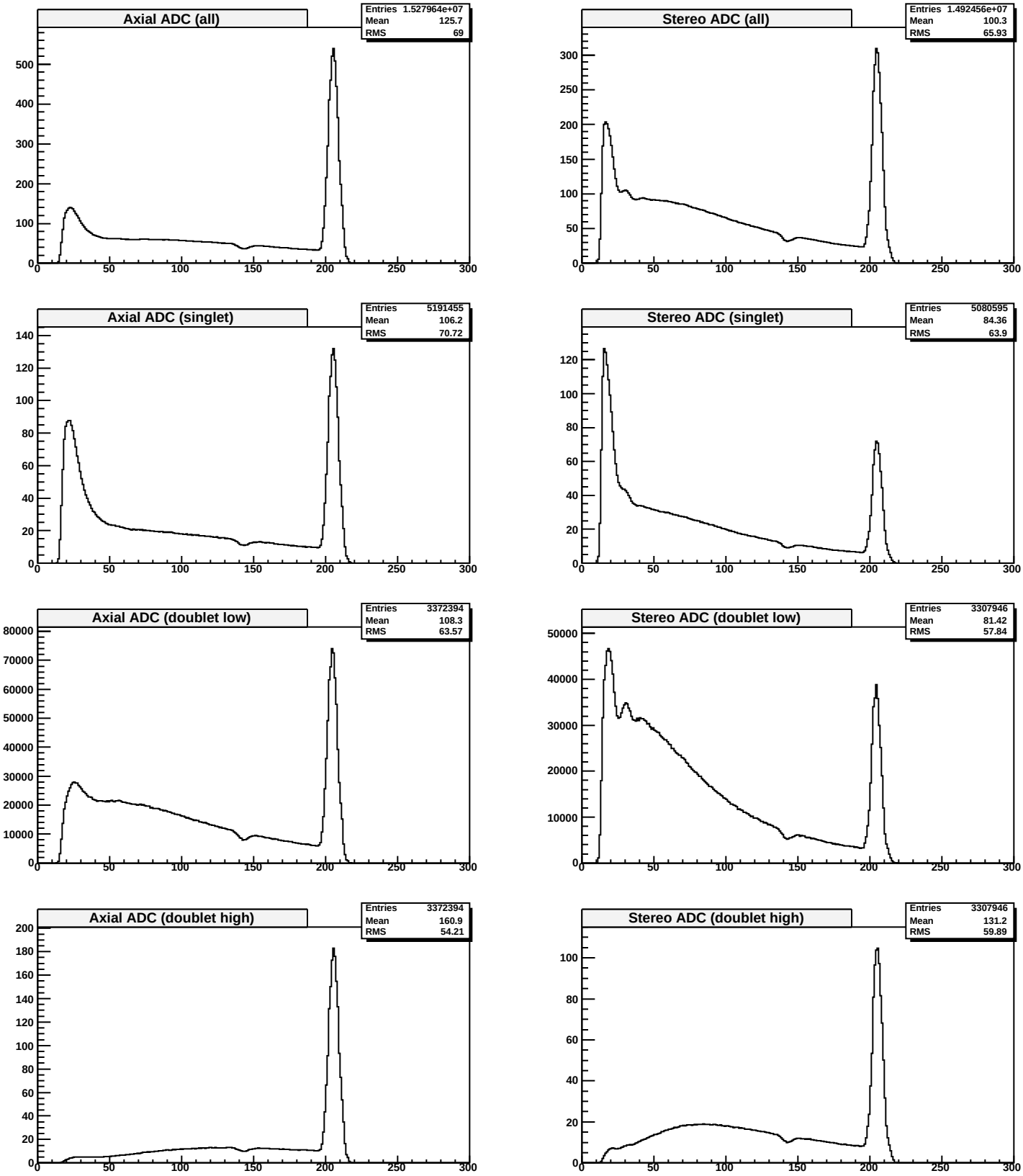
SmtClusters (HDiskTClusters)



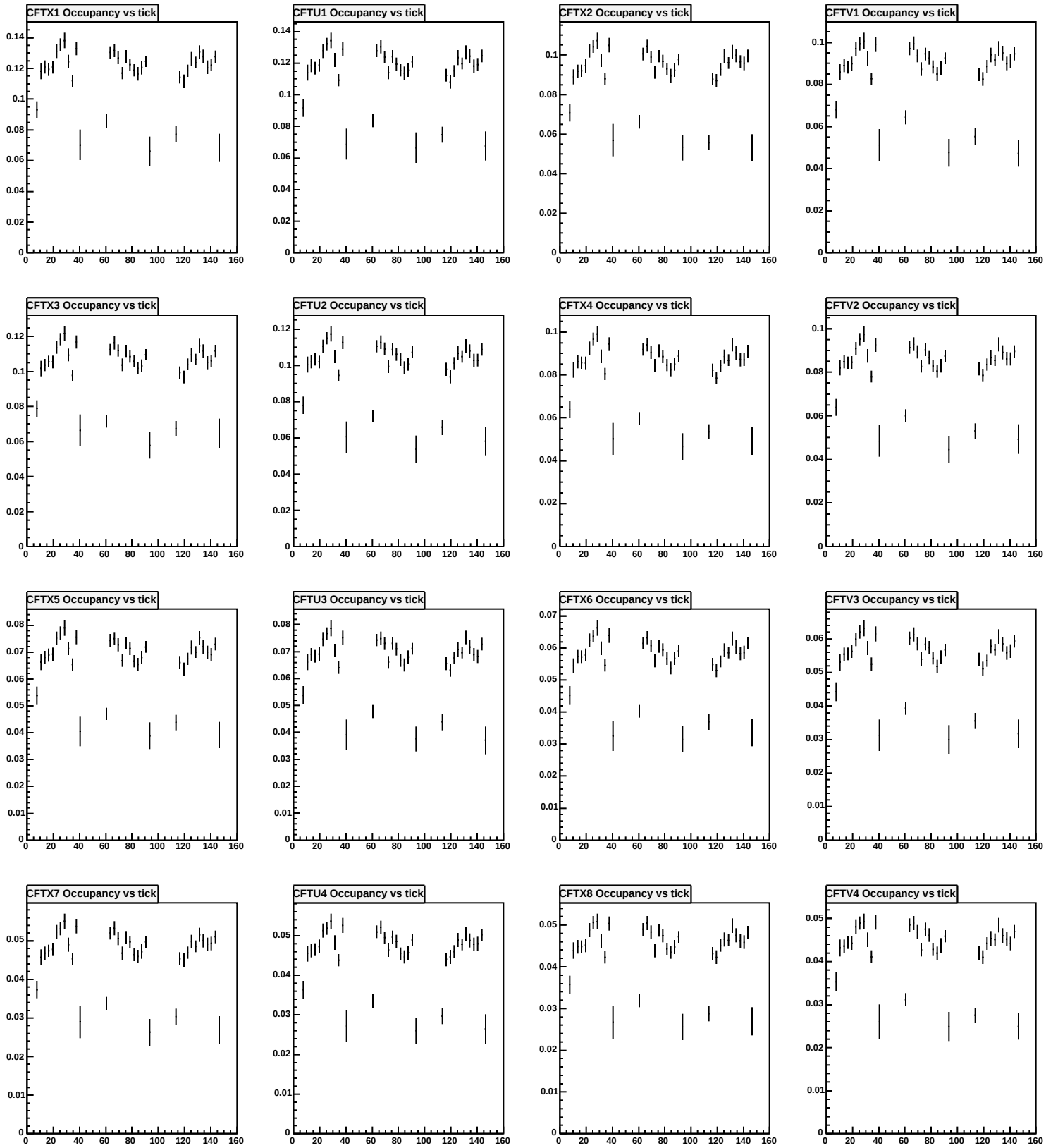
CFT Summary (All Clusters)



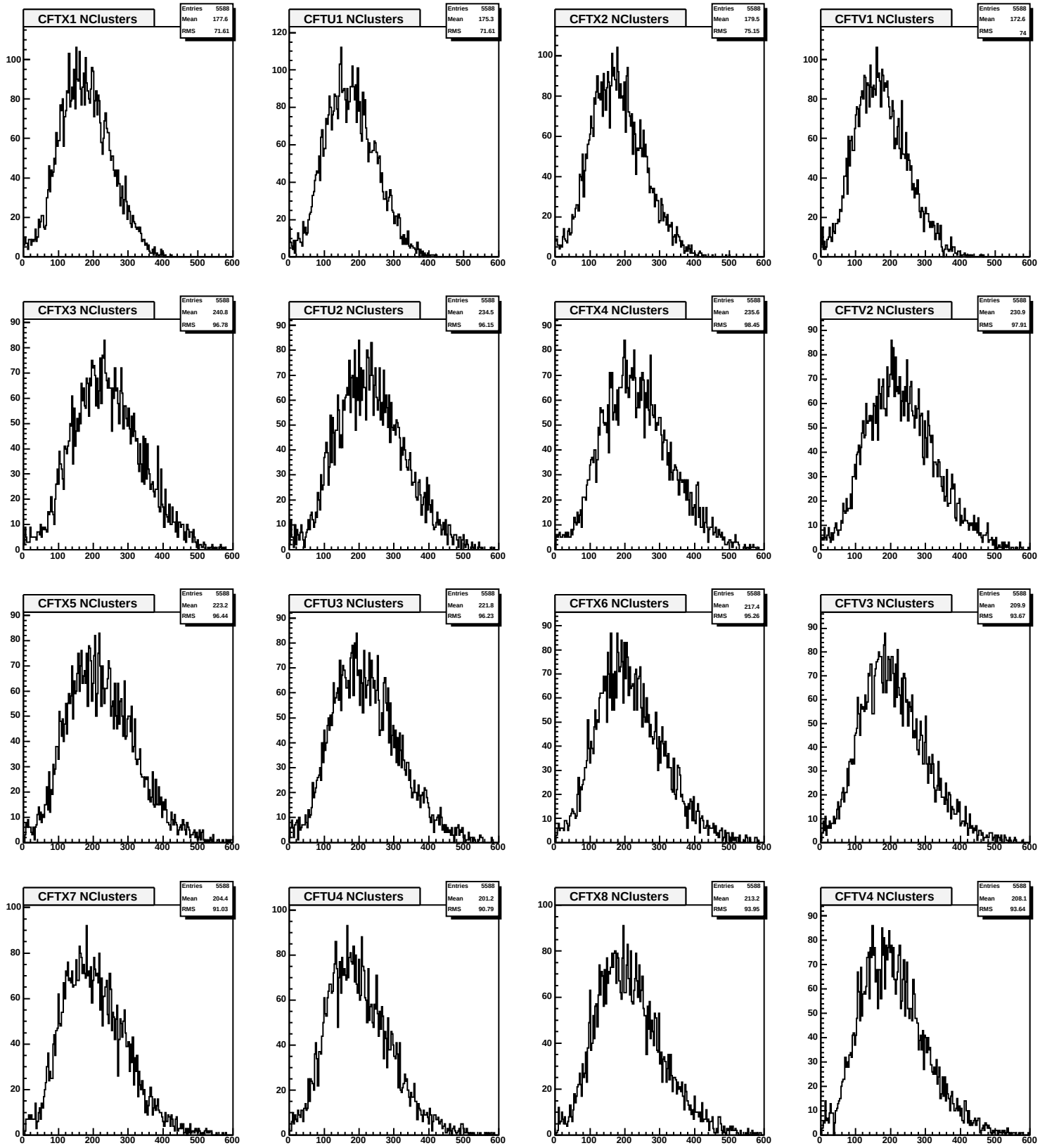
CFT Occupancy (All Clusters)



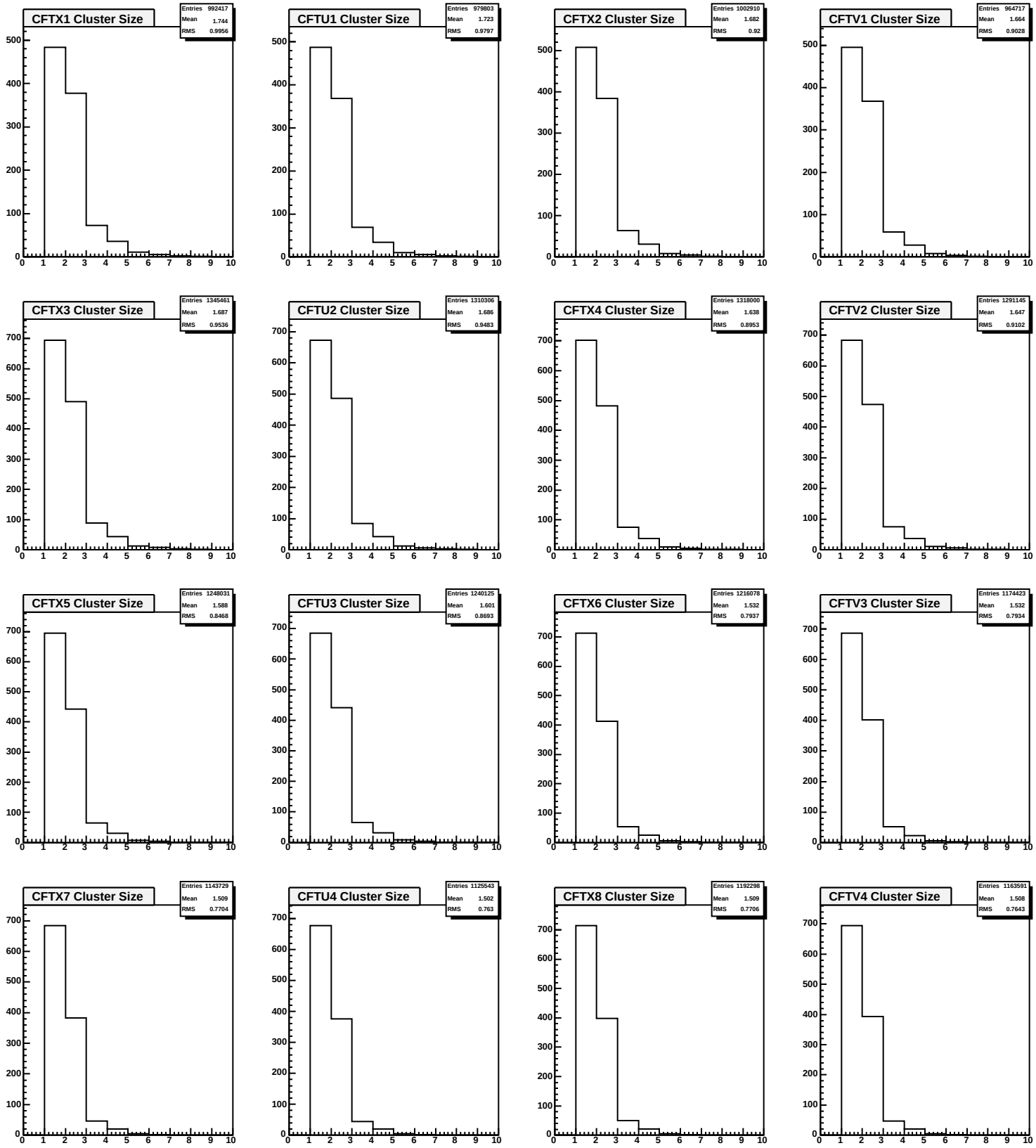
CFT ADC Summary (All Clusters)



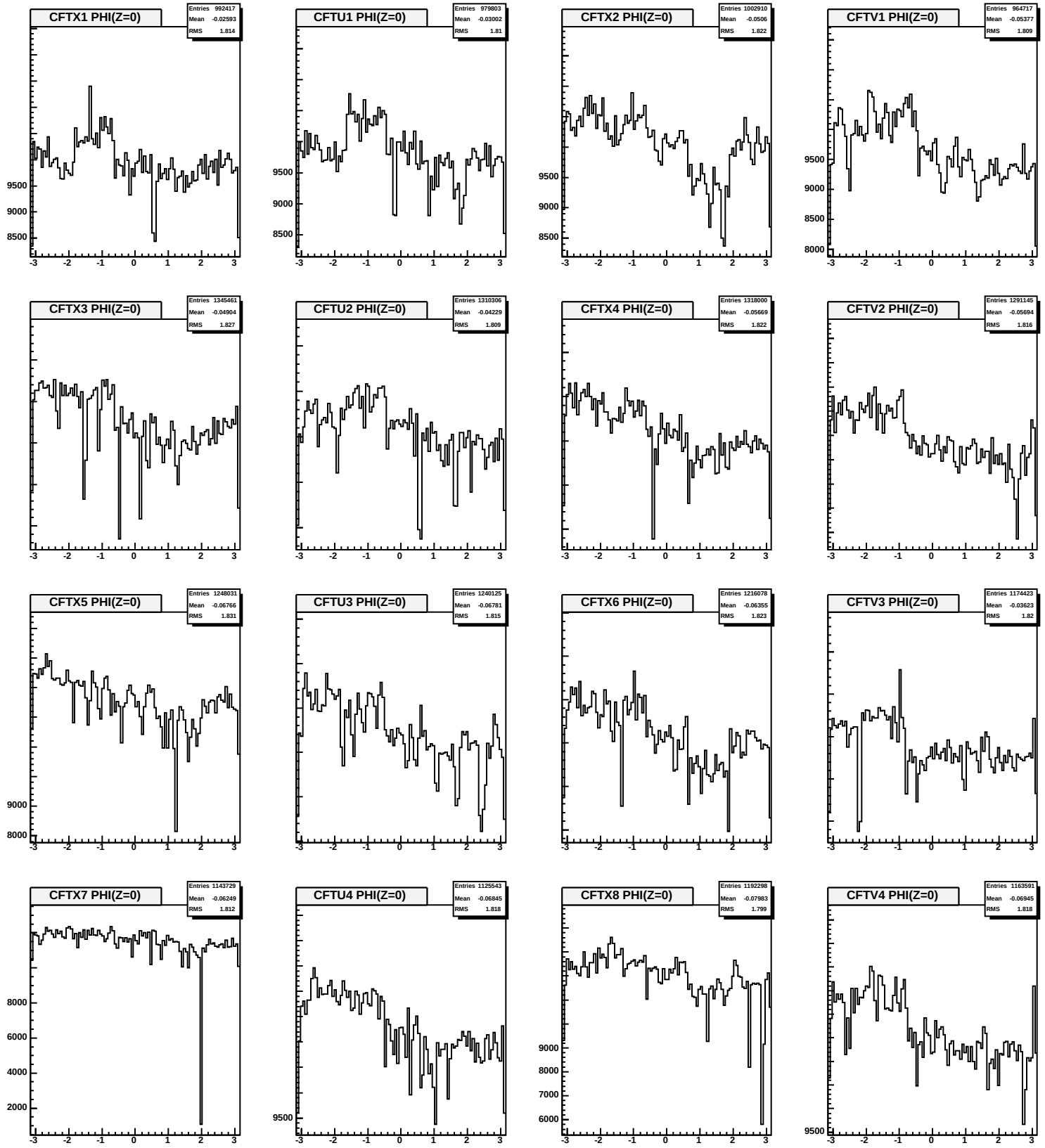
CFT Occupancy vs Tick (All Clusters)



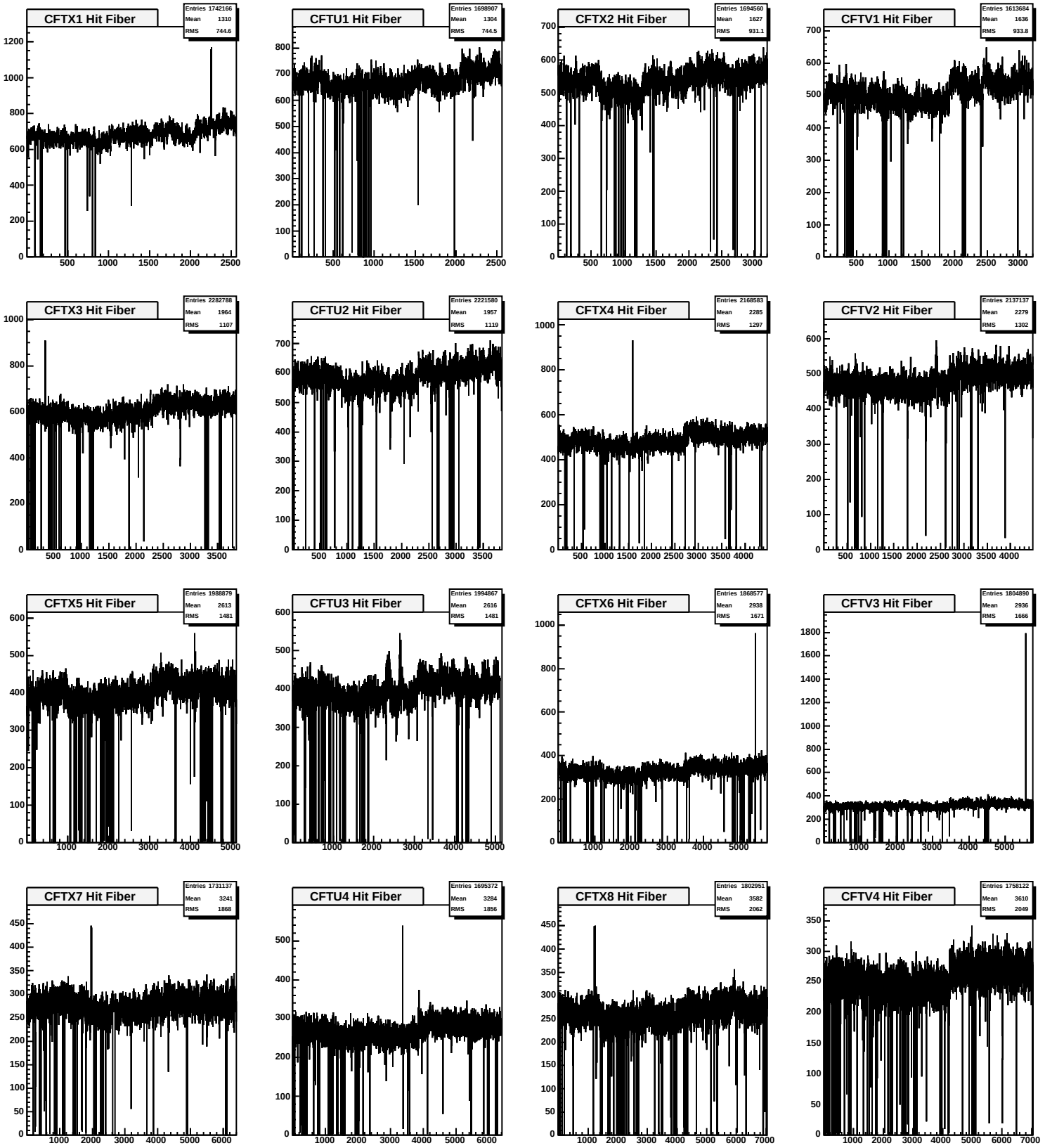
CFT NClusters (All Clusters)



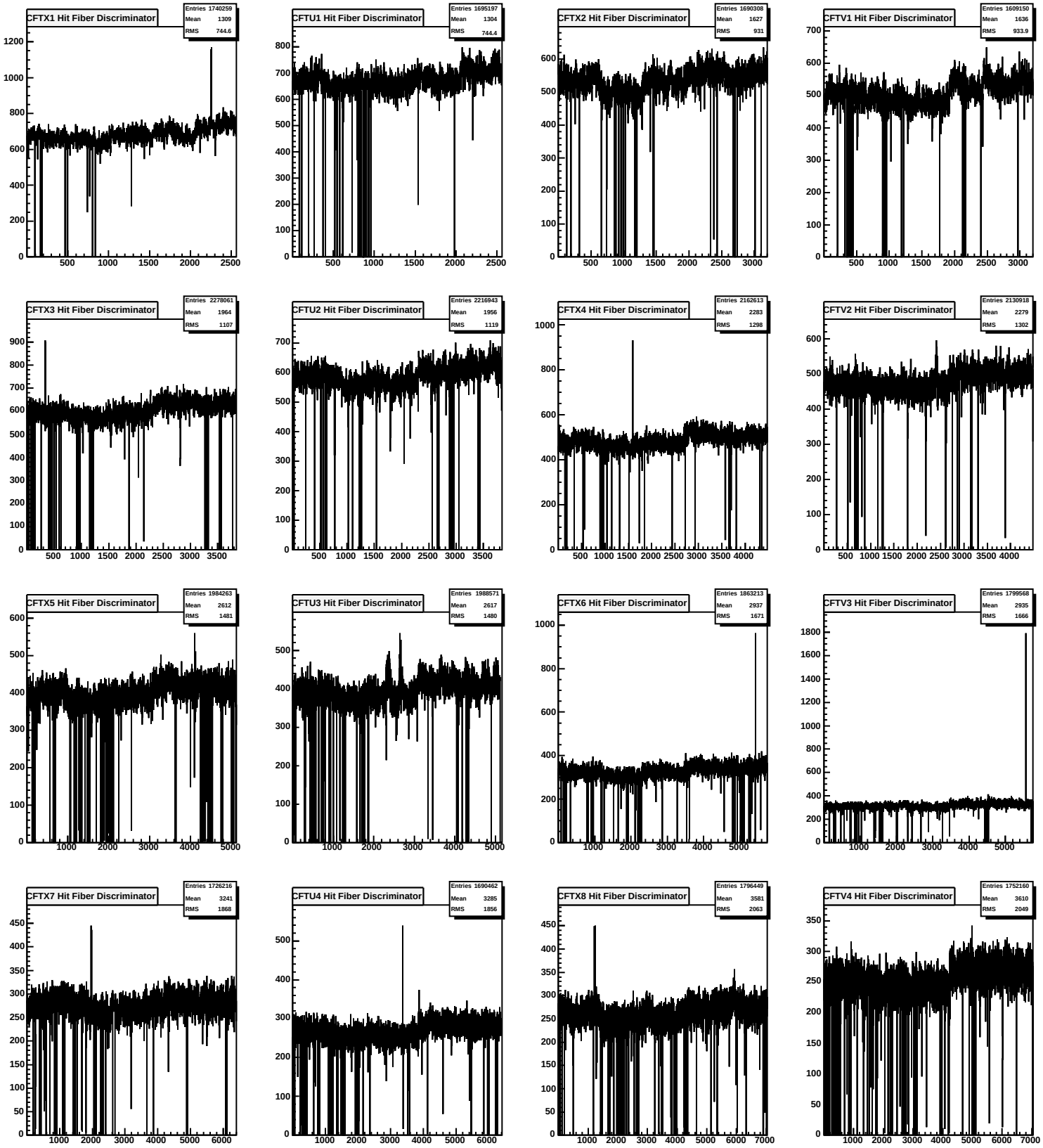
CFT Cluster Size (All Clusters)



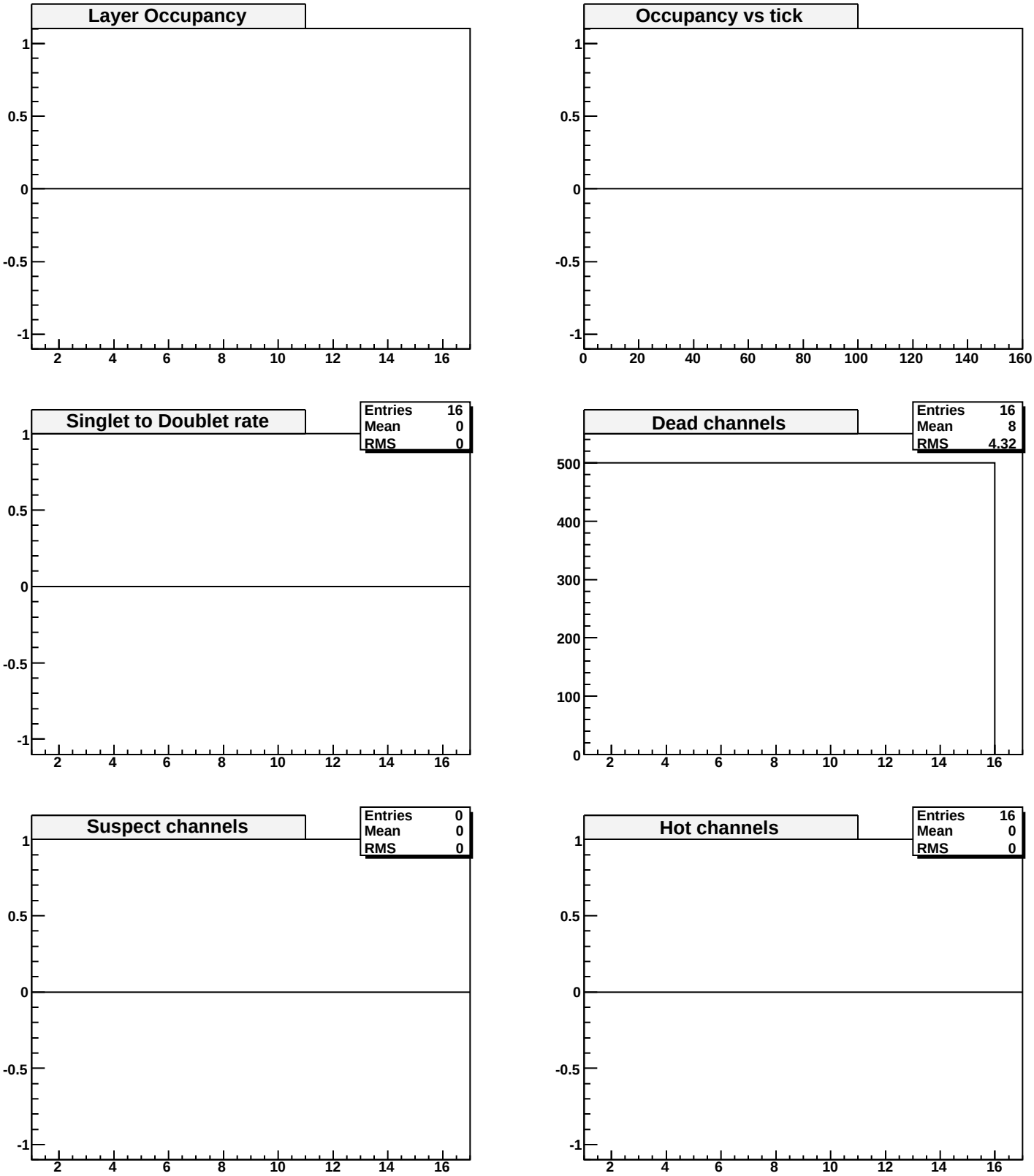
CFT PHI(Z=0) (All Clusters)



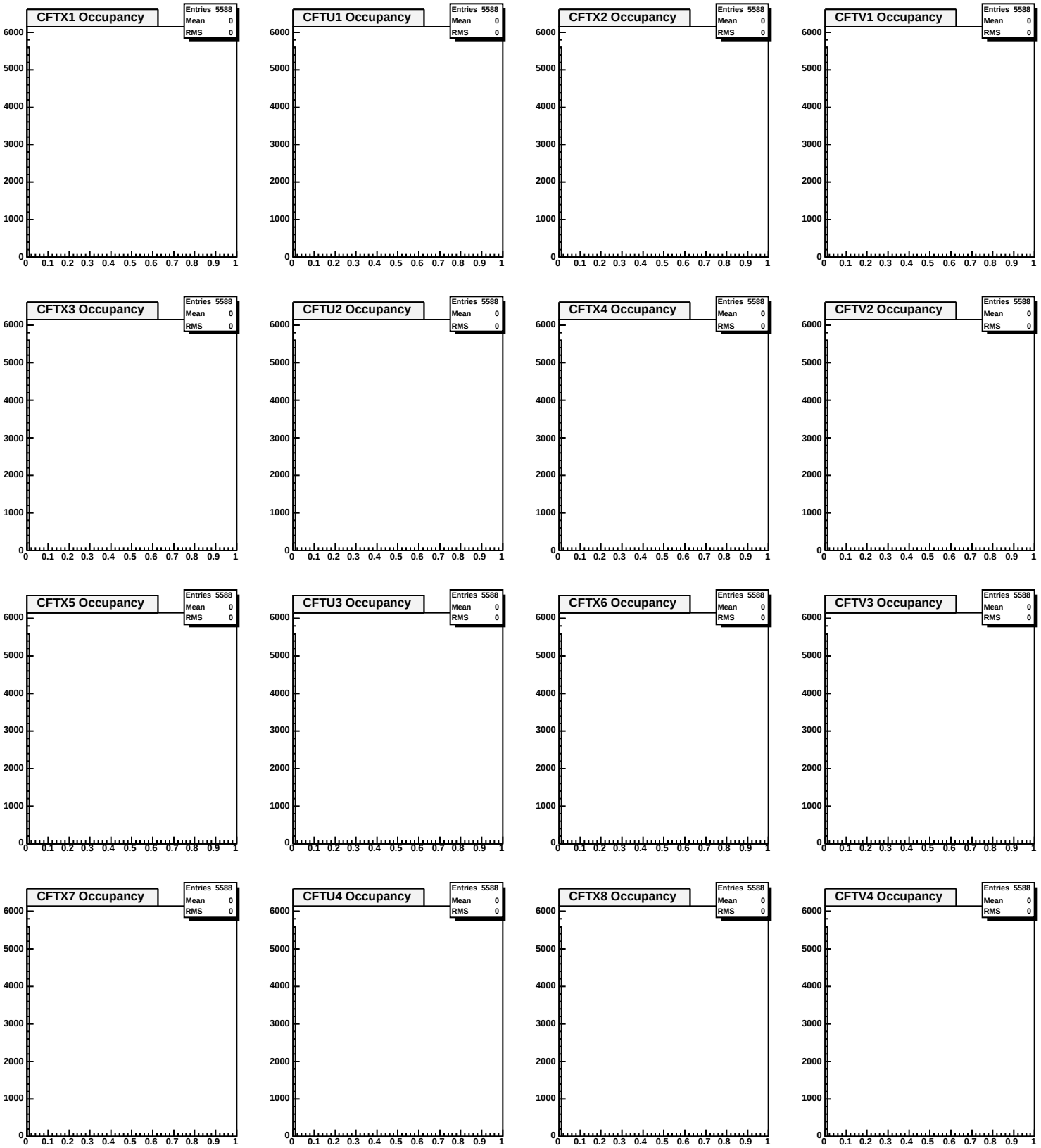
CFT Hit Fiber (All Clusters)



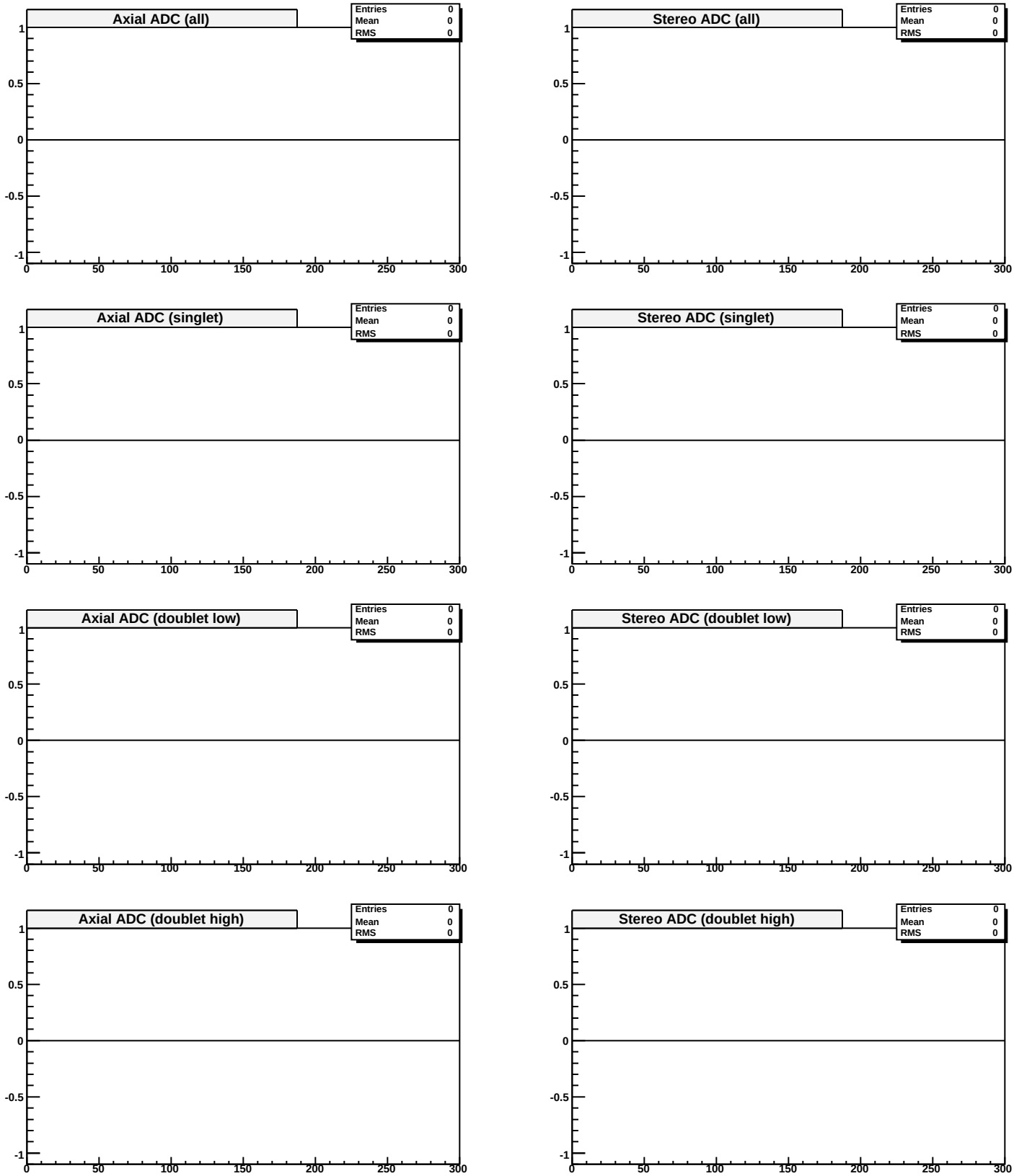
CFT Hit Fiber Discriminator (All Clusters)



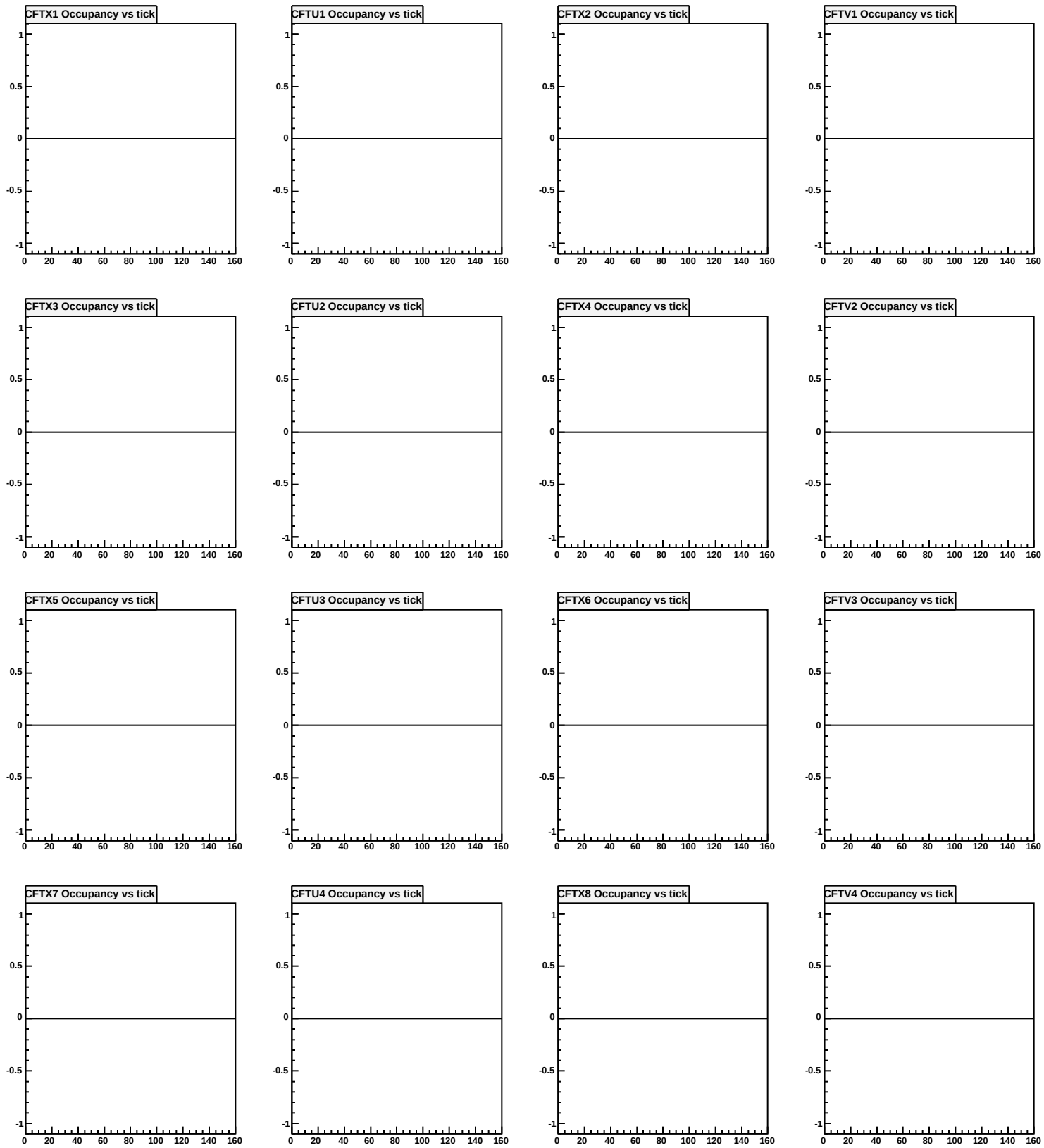
CFT Summary (Clusters on tracks)



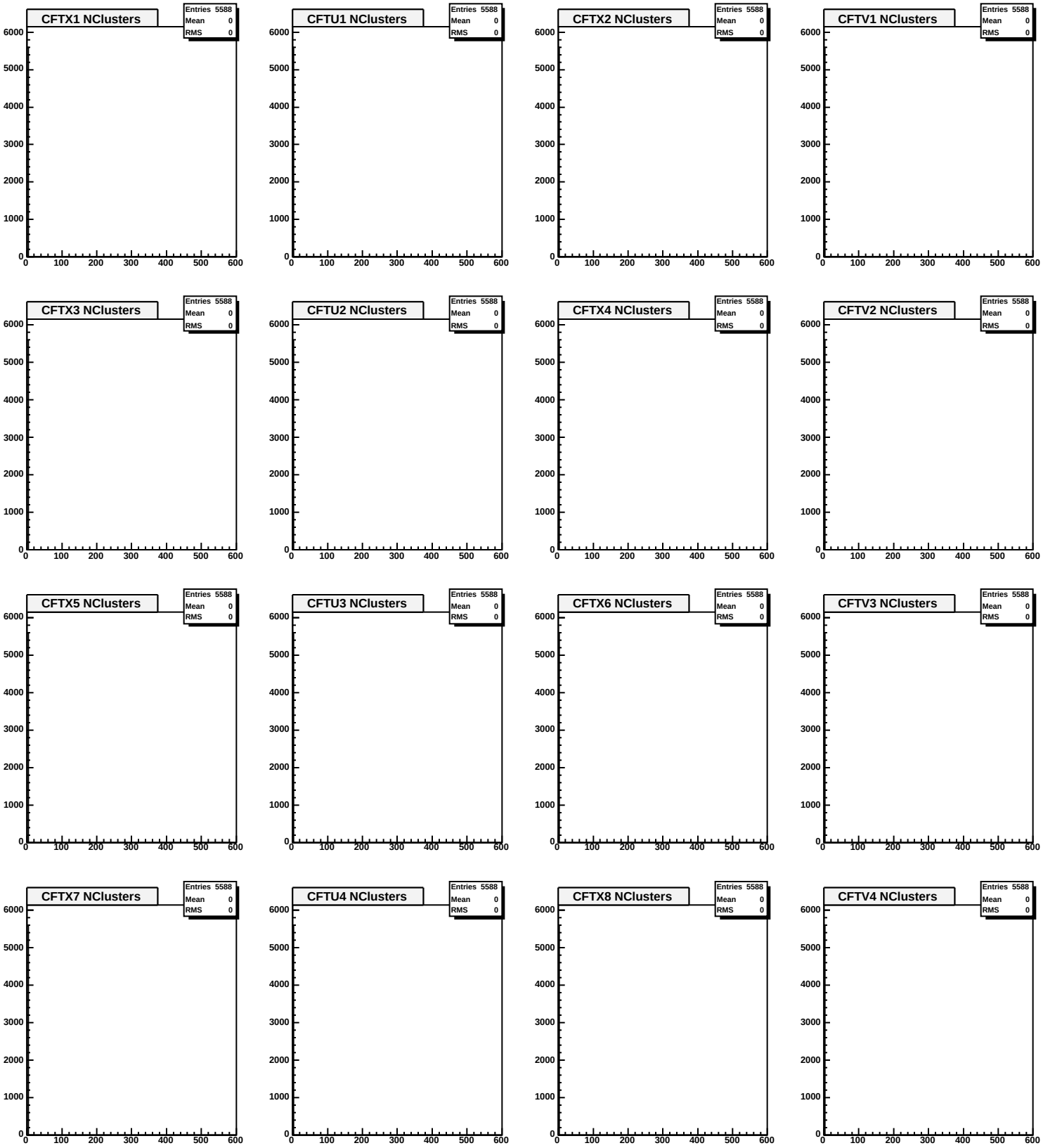
CFT Occupancy (Clusters on tracks)



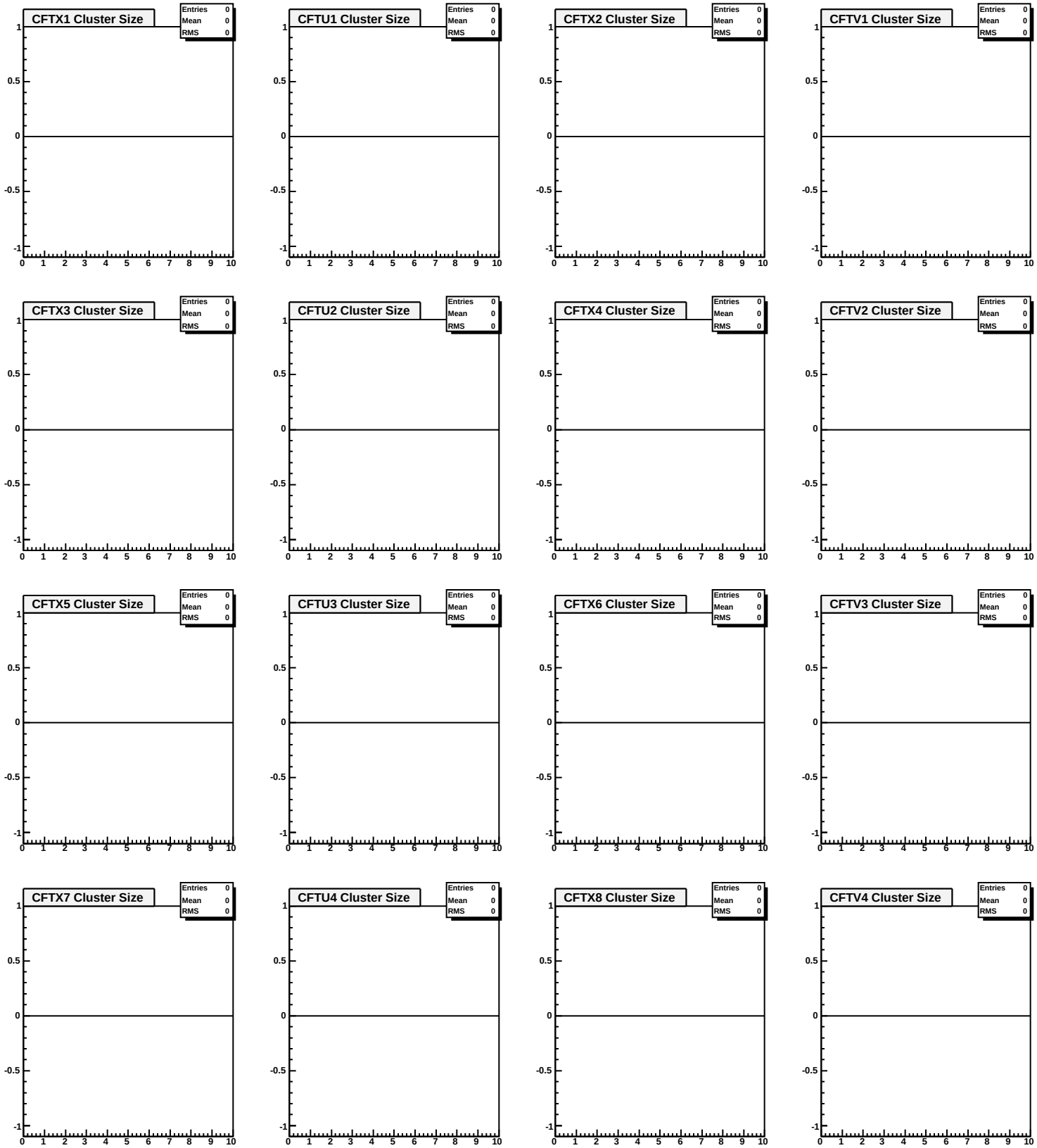
CFT ADC Summary (Clusters on tracks)



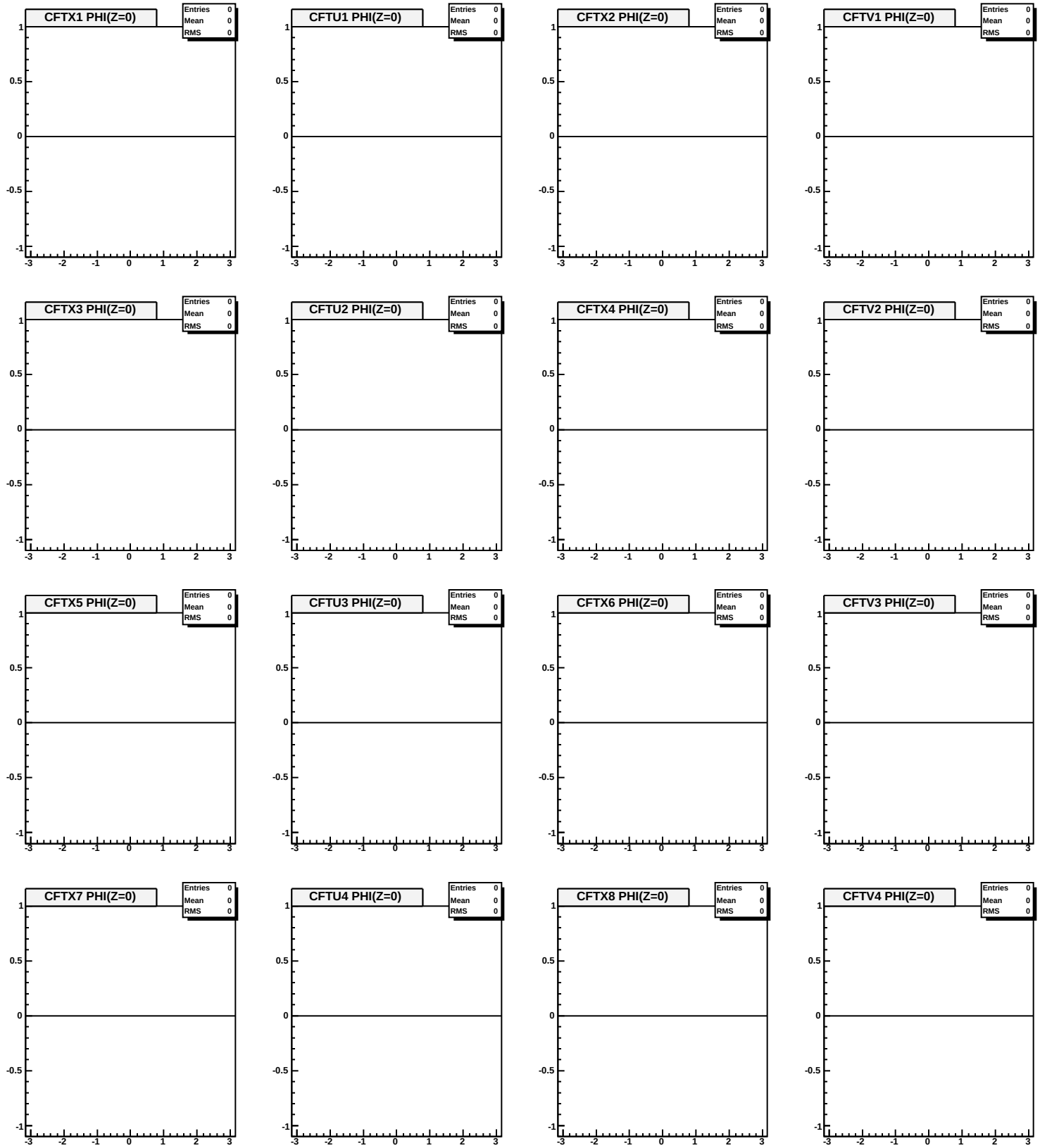
CFT Occupancy vs Tick (Clusters on tracks)



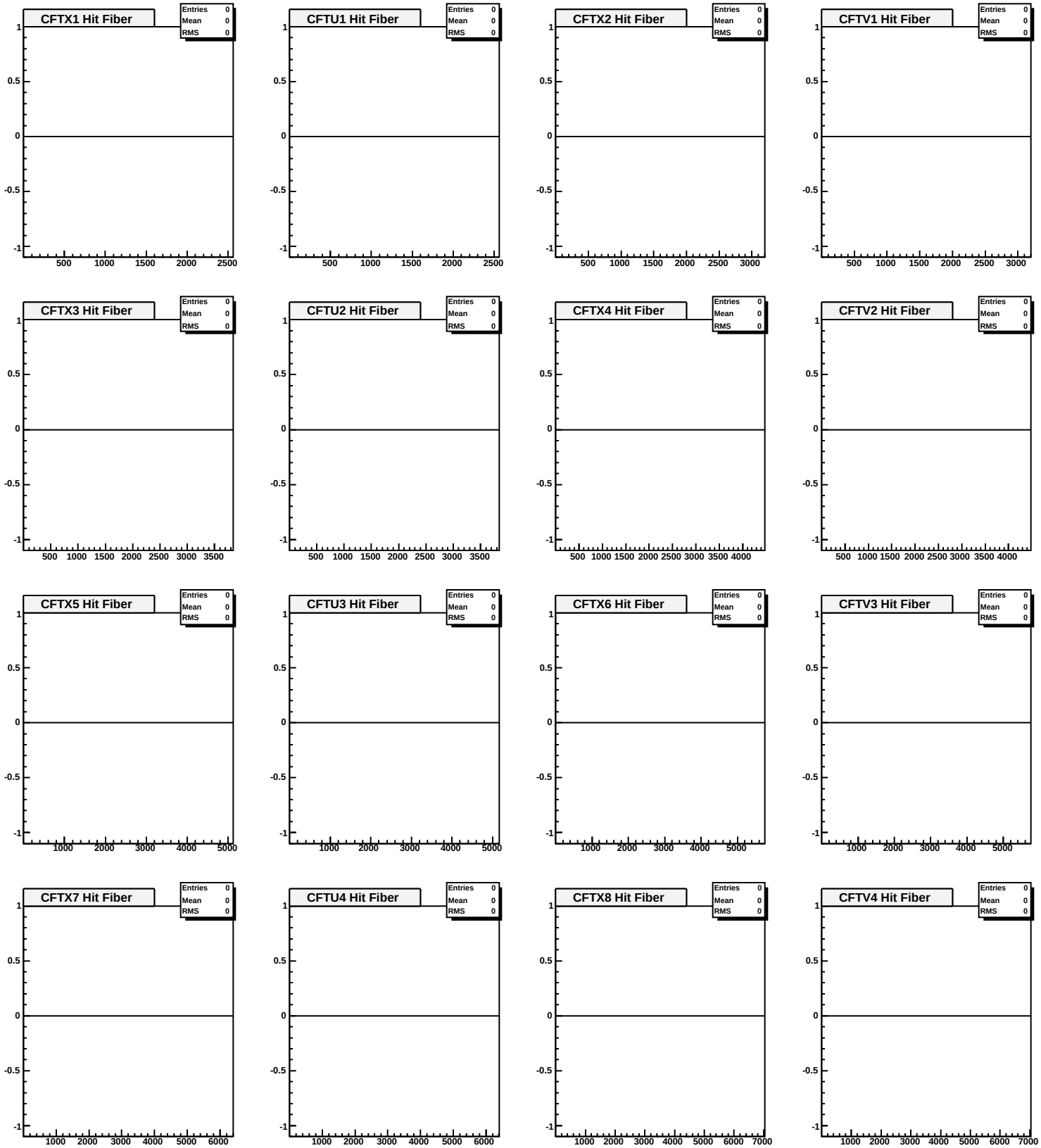
CFT NClusters (Clusters on tracks)



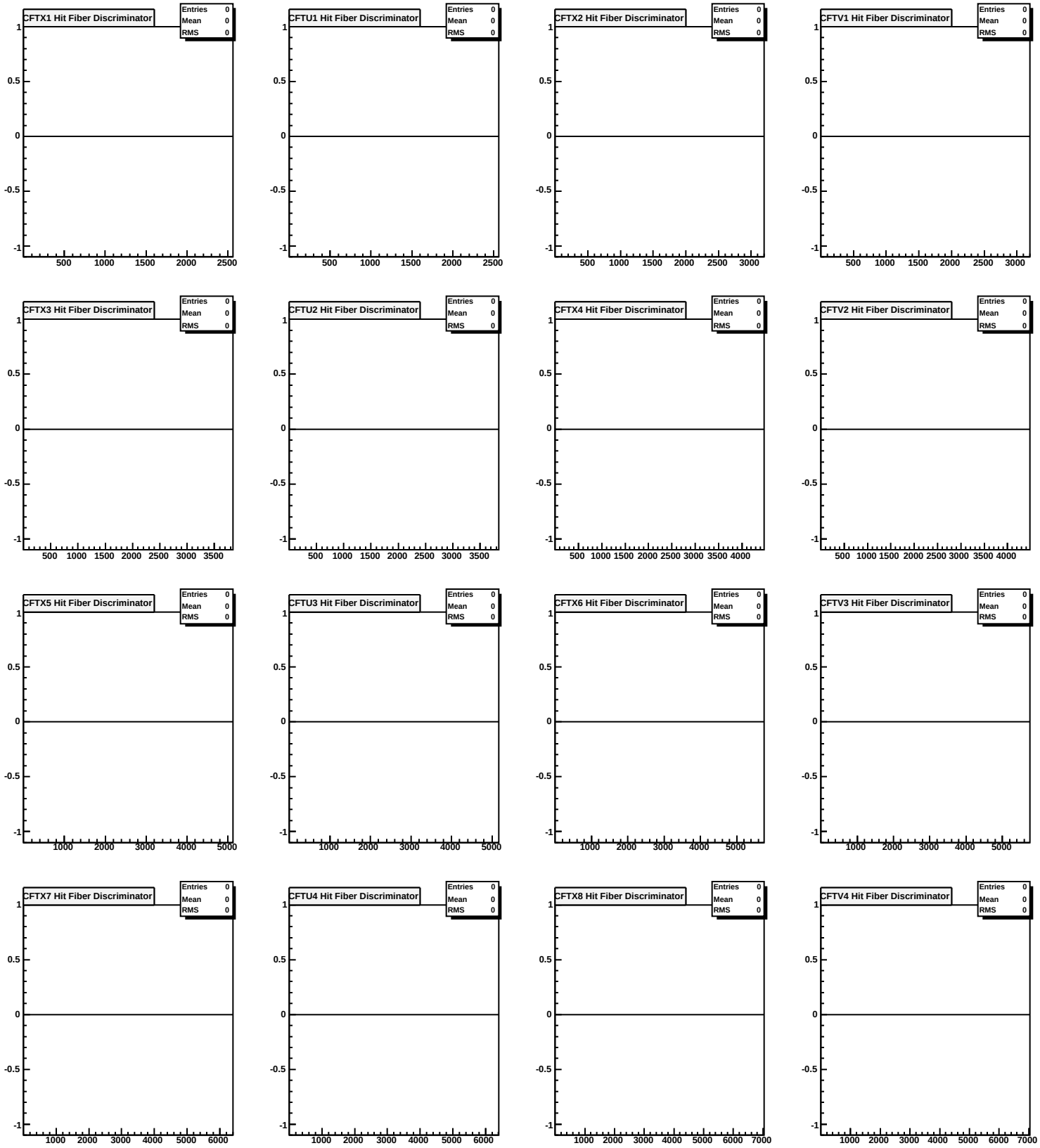
CFT Cluster Size (Clusters on tracks)



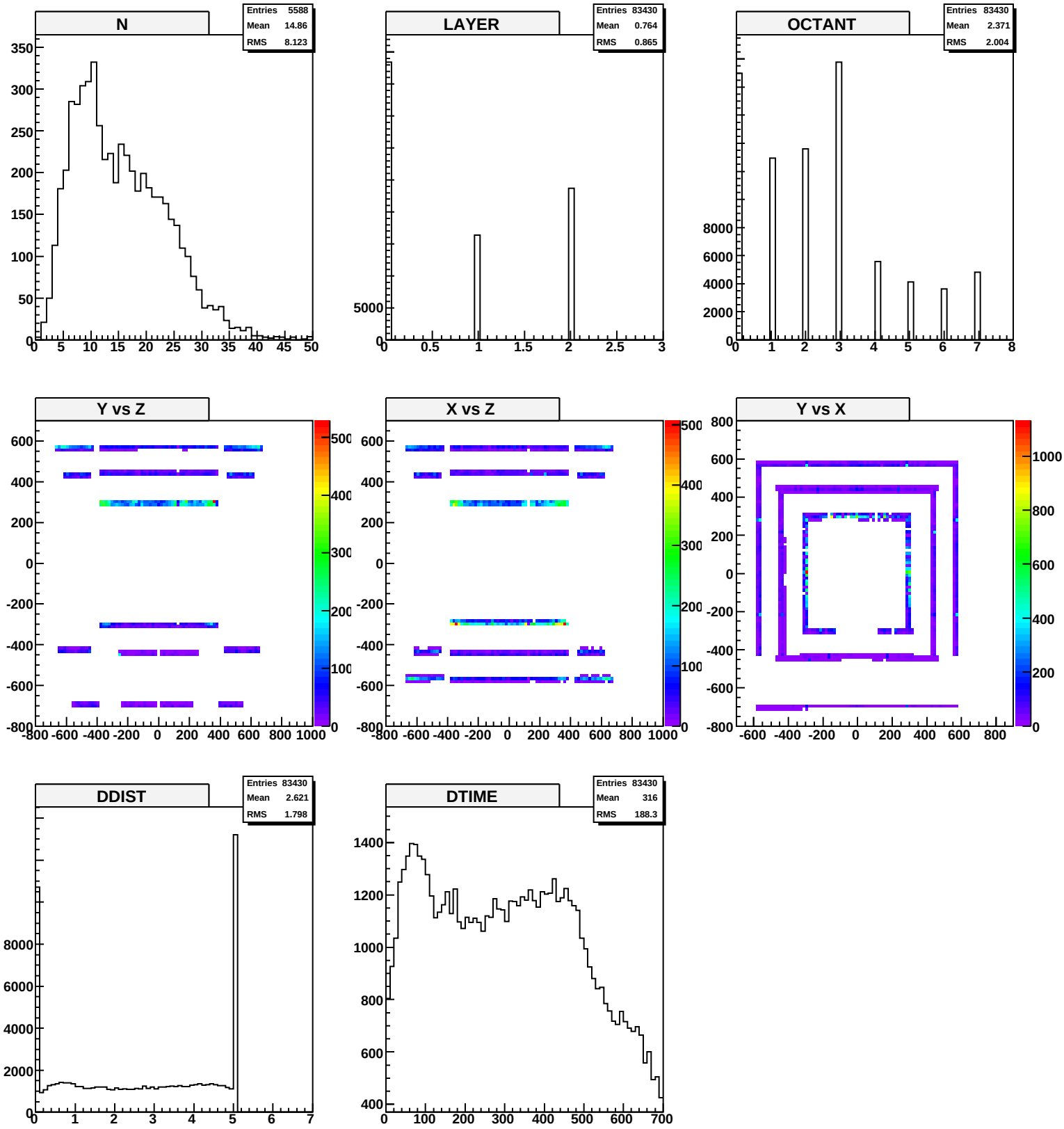
CFT PHI(Z=0) (Clusters on tracks)



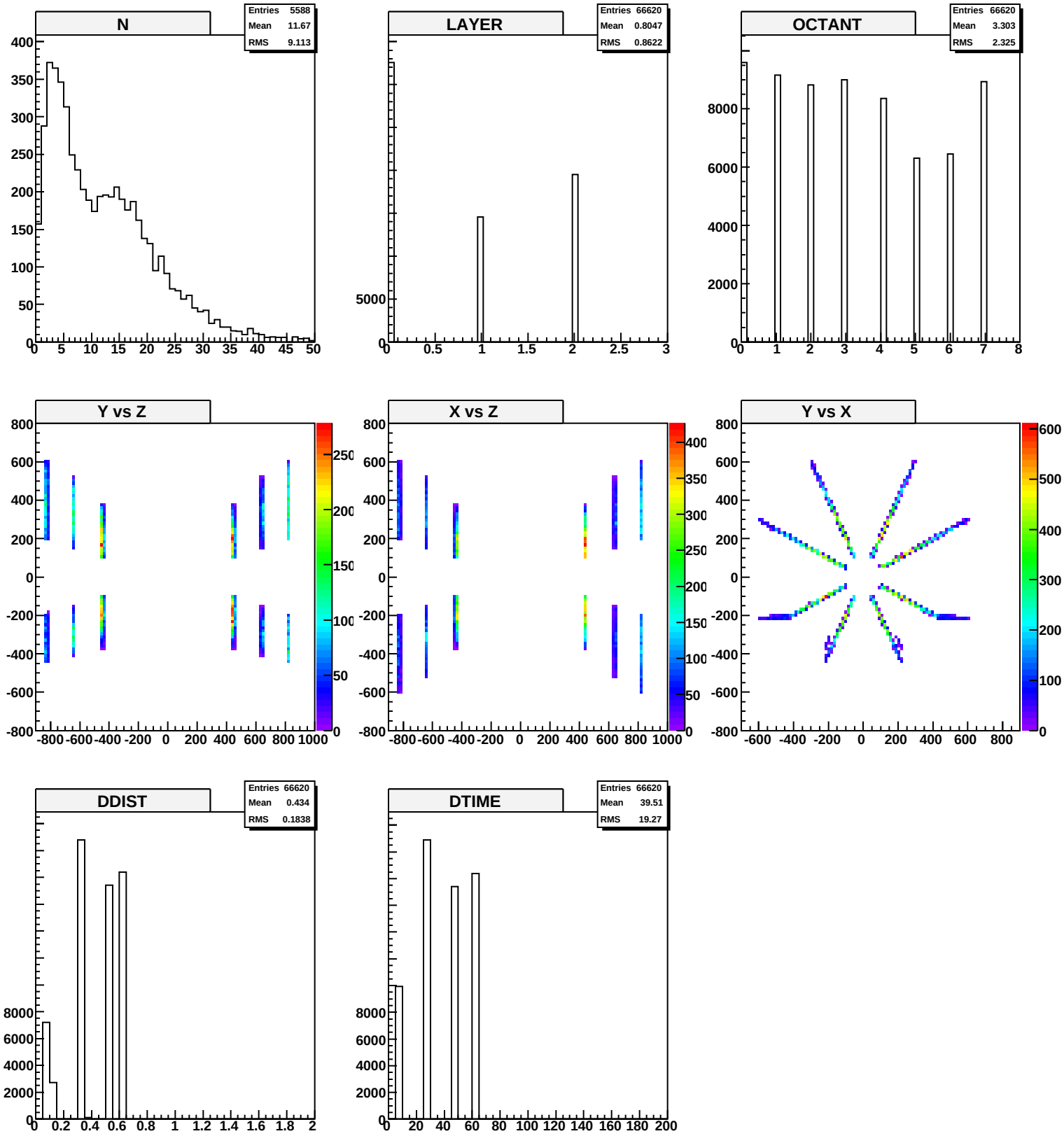
CFT Hit Fiber (Clusters on tracks)



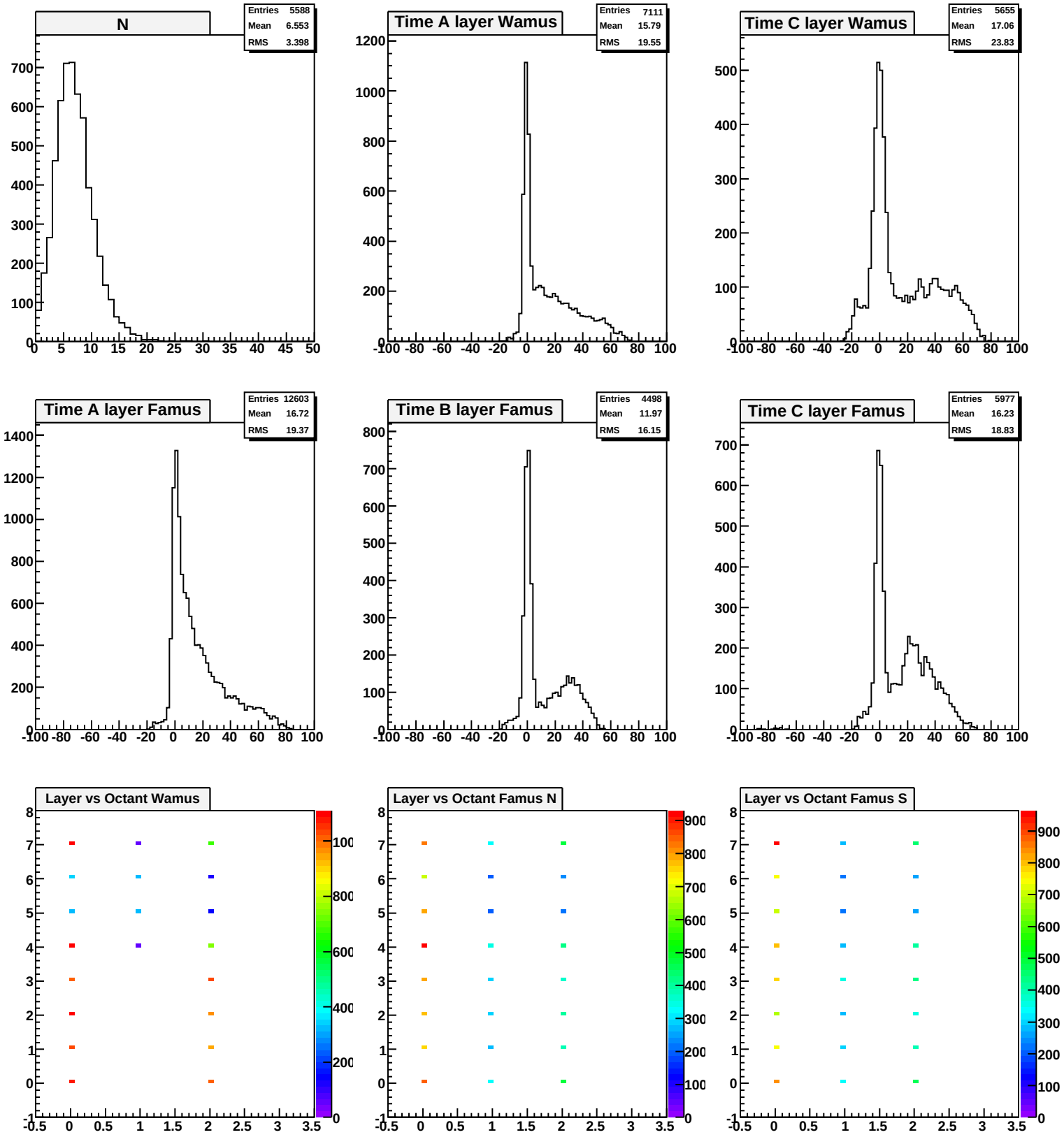
CFT Hit Fiber Discriminator (Clusters on tracks)


N
Entries 5588
Mean 14.86
RMS 8.123
LAYER
Entries 83430
Mean 0.764
RMS 0.865
OCTANT
Entries 83430
Mean 2.371
RMS 2.004
Y vs Z
X vs Z
Y vs X
DDIST
Entries 83430
Mean 2.621
RMS 1.798
DTIME
Entries 83430
Mean 316
RMS 188.3

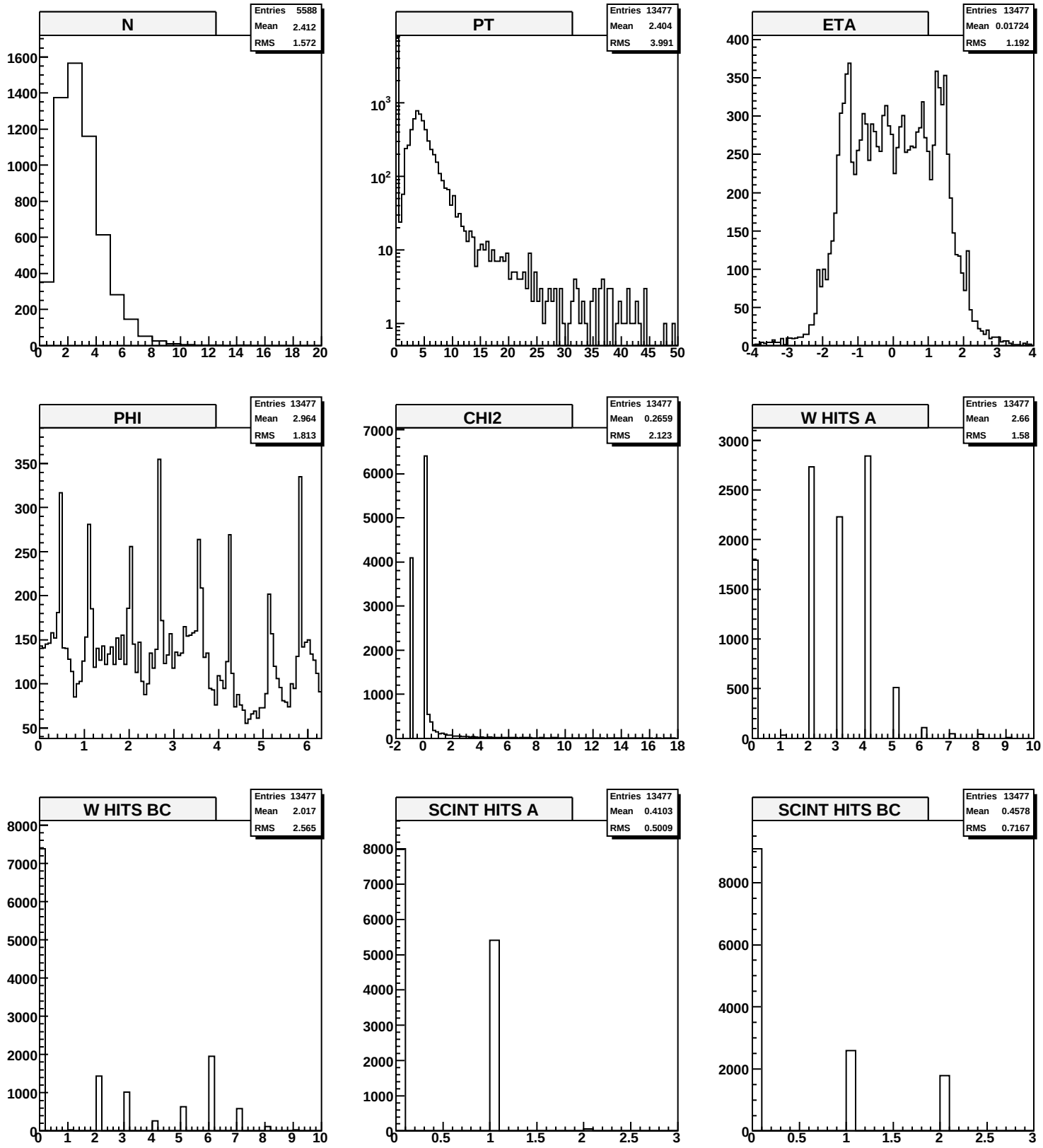
MuonPDT (All)


N
Entries 5588
Mean 11.67
RMS 9.113
LAYER
Entries 66620
Mean 0.8047
RMS 0.8622
OCTANT
Entries 66620
Mean 3.303
RMS 2.325
Y vs Z
X vs Z
Y vs X
DDIST
Entries 66620
Mean 0.434
RMS 0.1838
DTIME
Entries 66620
Mean 39.51
RMS 19.27

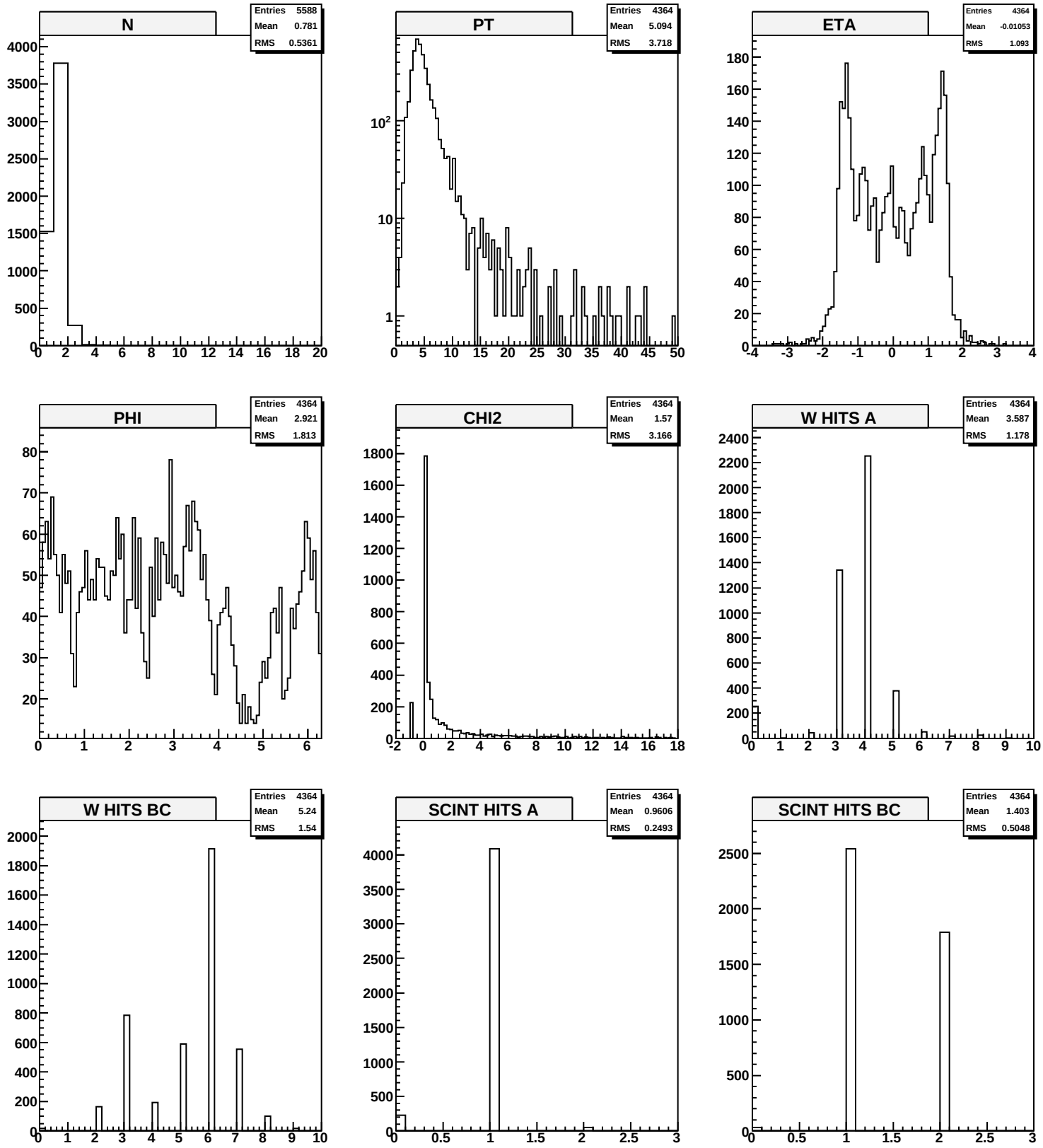
MuonMDT (All)


N
Entries 5588
Mean 6.553
RMS 3.398
Time A layer Wamus
Entries 7111
Mean 15.79
RMS 19.55
Time C layer Wamus
Entries 5655
Mean 17.06
RMS 23.83
Time A layer Famus
Entries 12603
Mean 16.72
RMS 19.37
Time B layer Famus
Entries 4498
Mean 11.97
RMS 16.15
Time C layer Famus
Entries 5977
Mean 16.23
RMS 18.83
Layer vs Octant Wamus
Layer vs Octant Famus N
Layer vs Octant Famus S

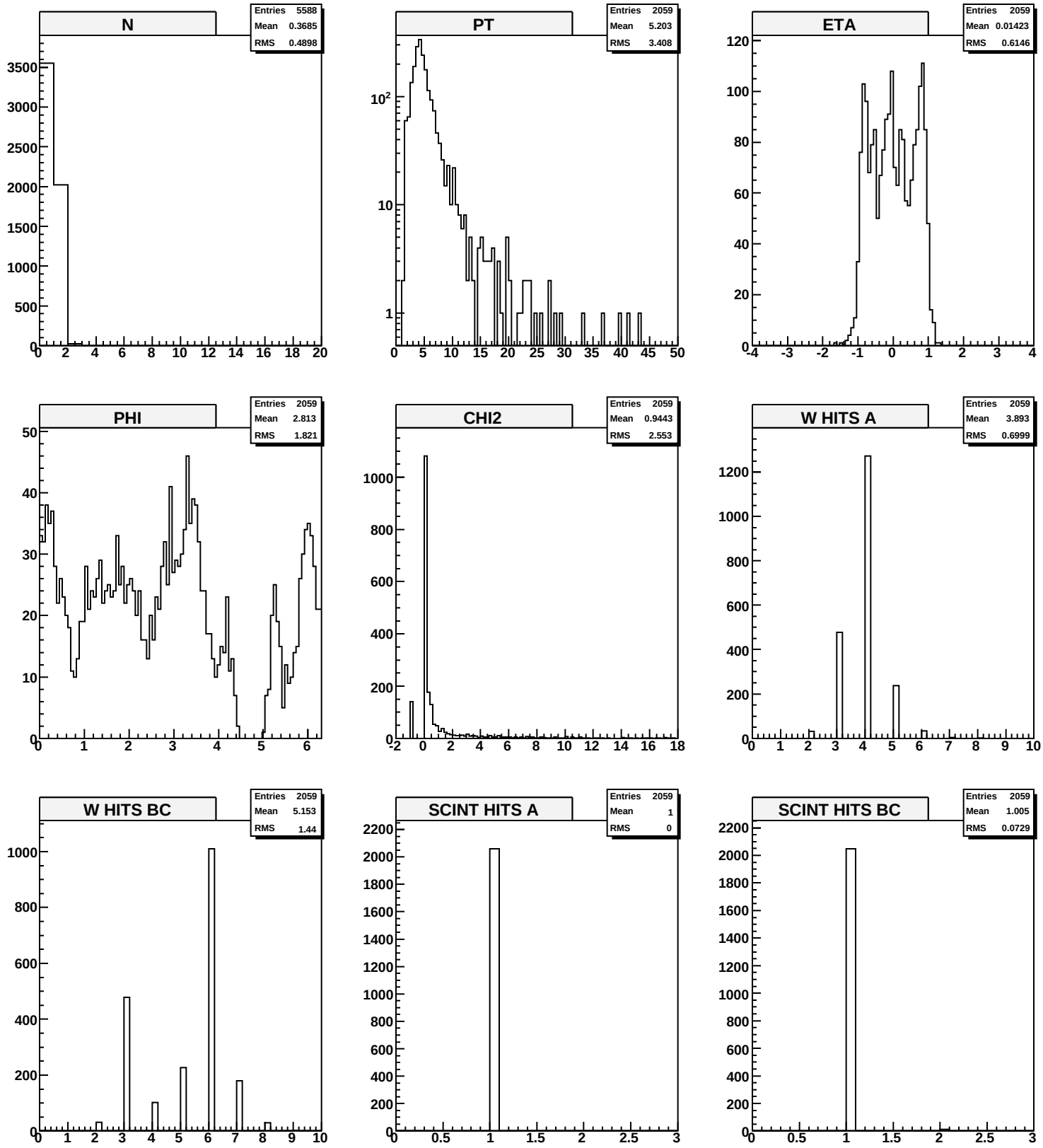
MuonMSC (All)



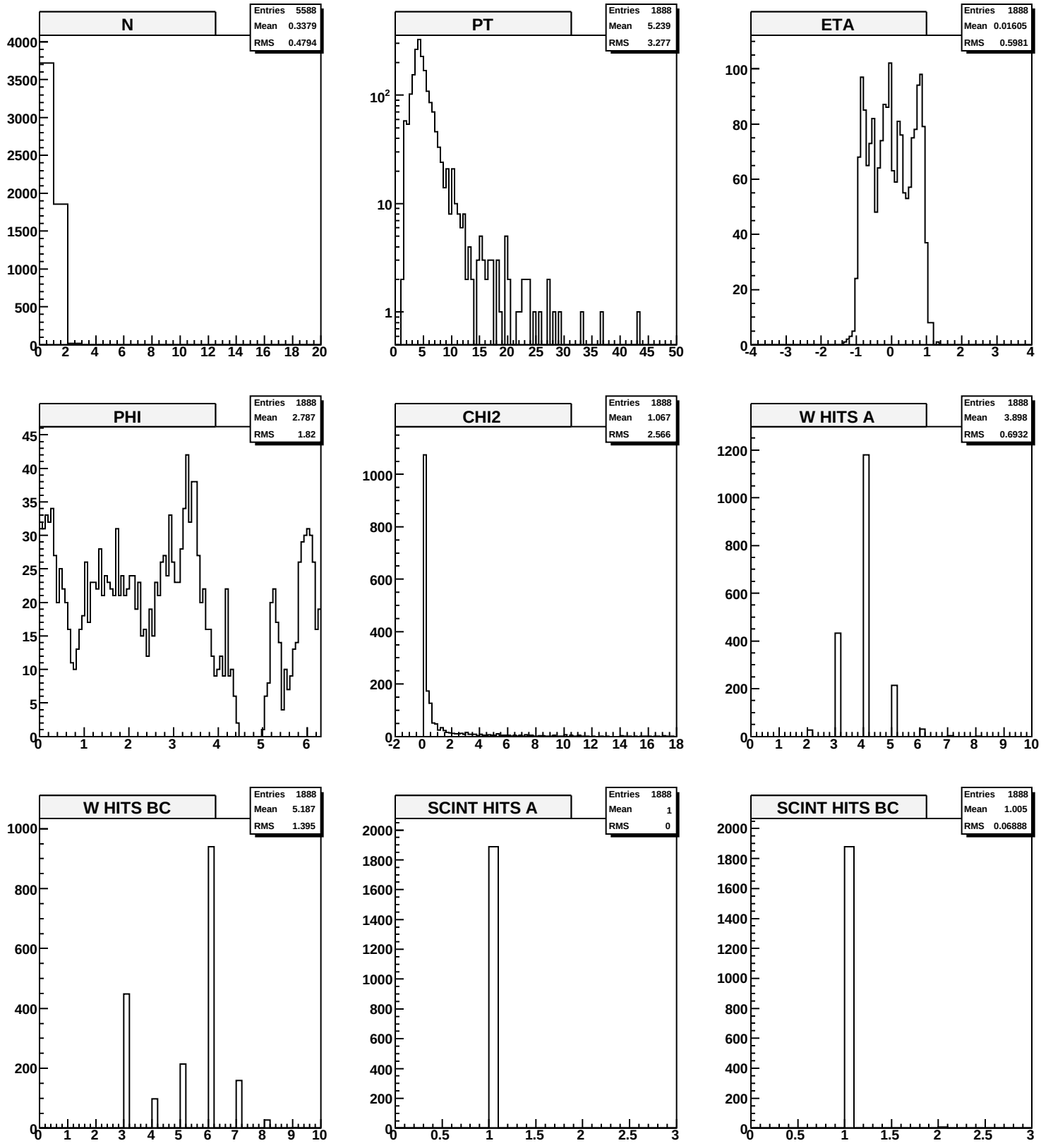
Muon Local Tracks (All)



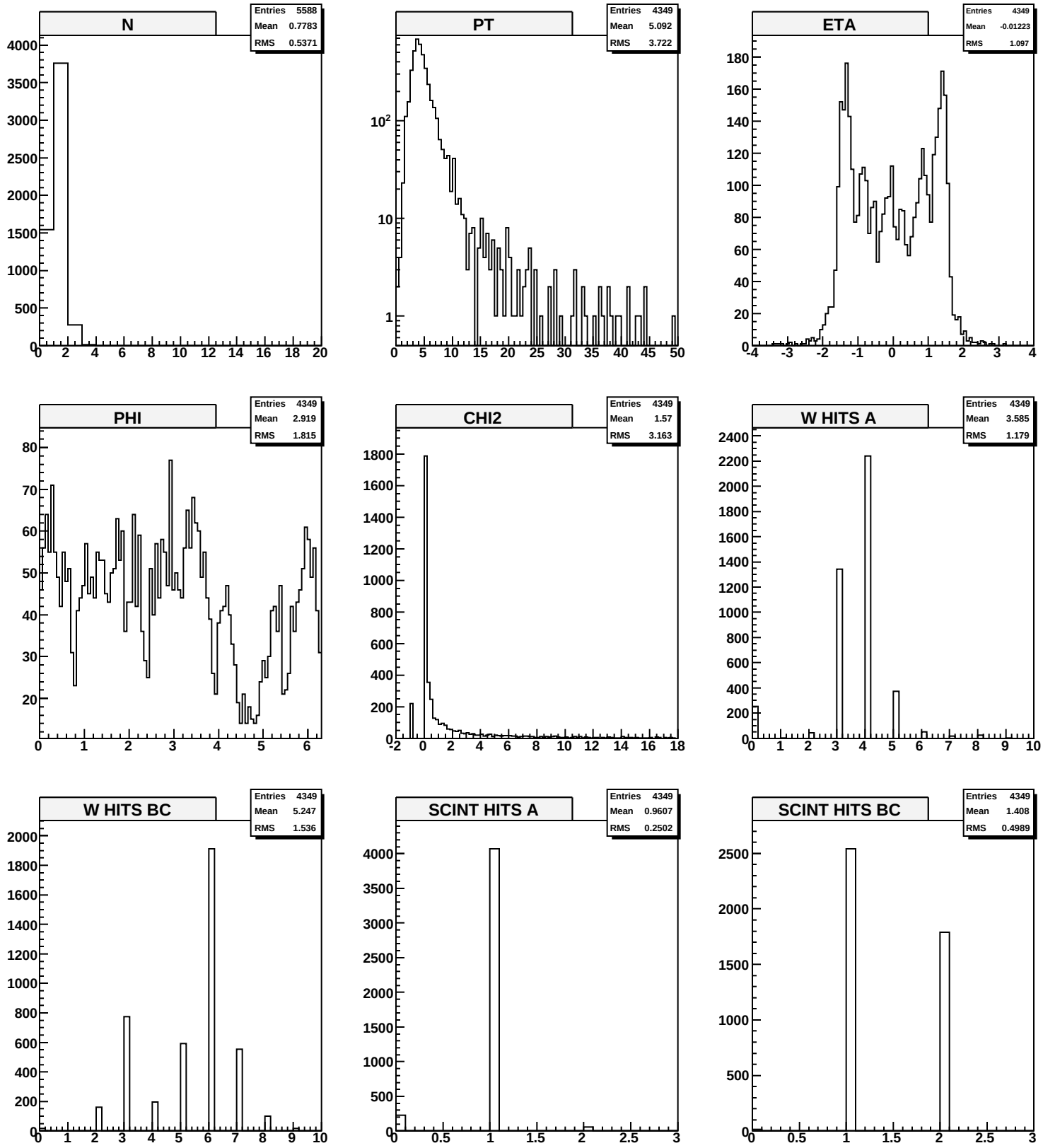
Muon Local Tracks (LooseWamus)



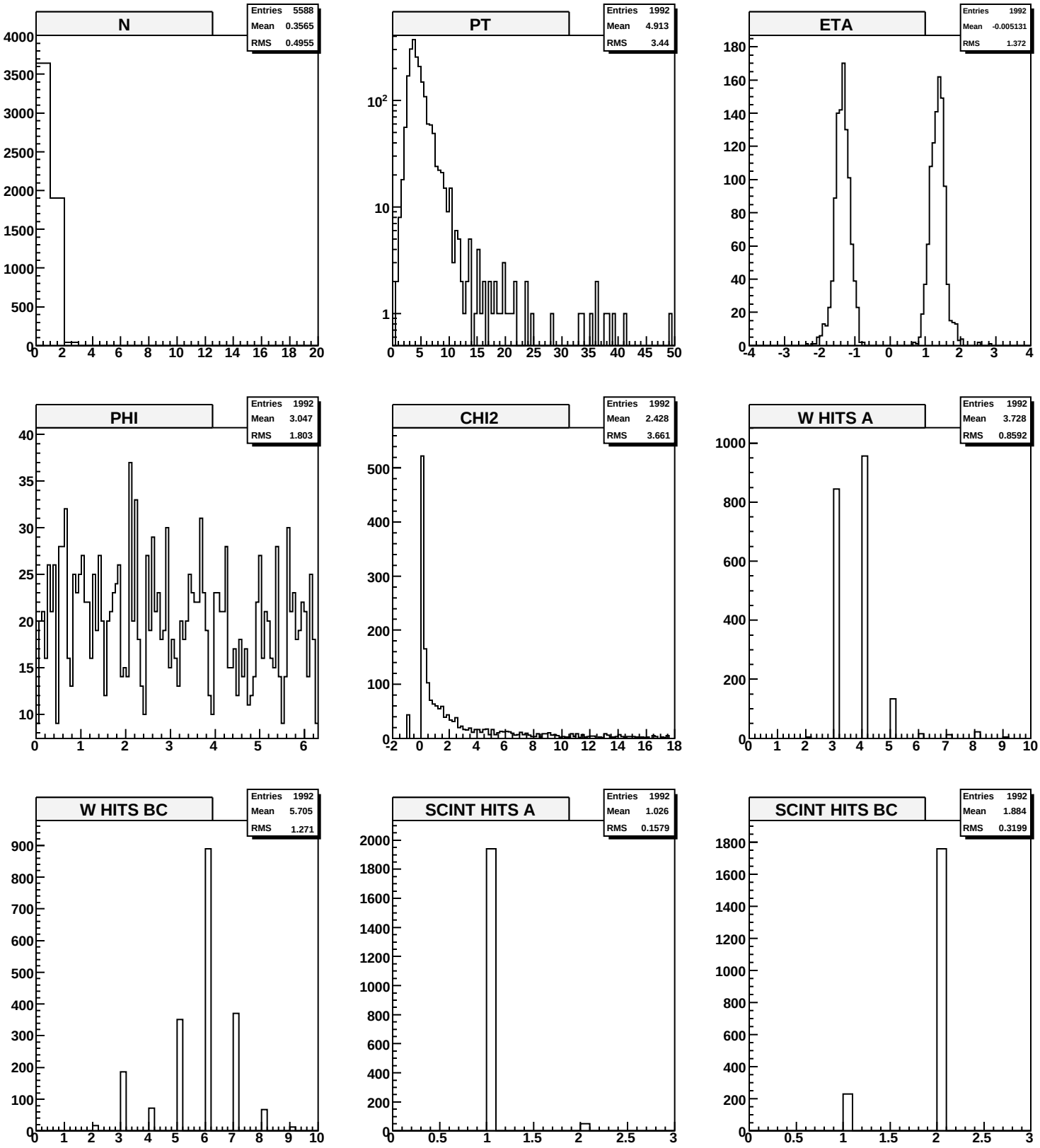
Muon Local Tracks (MediumWamus)



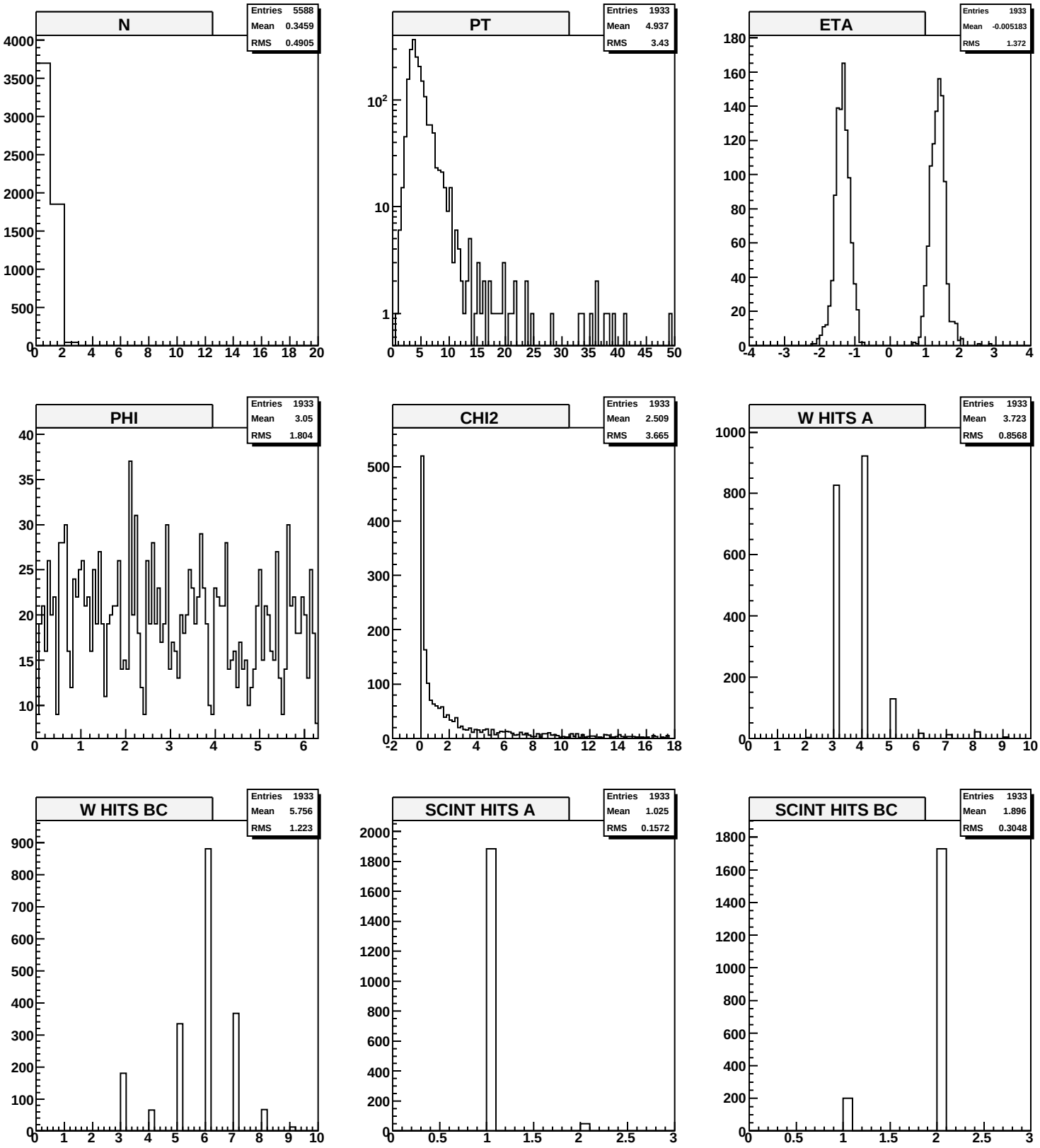
Muon Local Tracks (TightWamus)



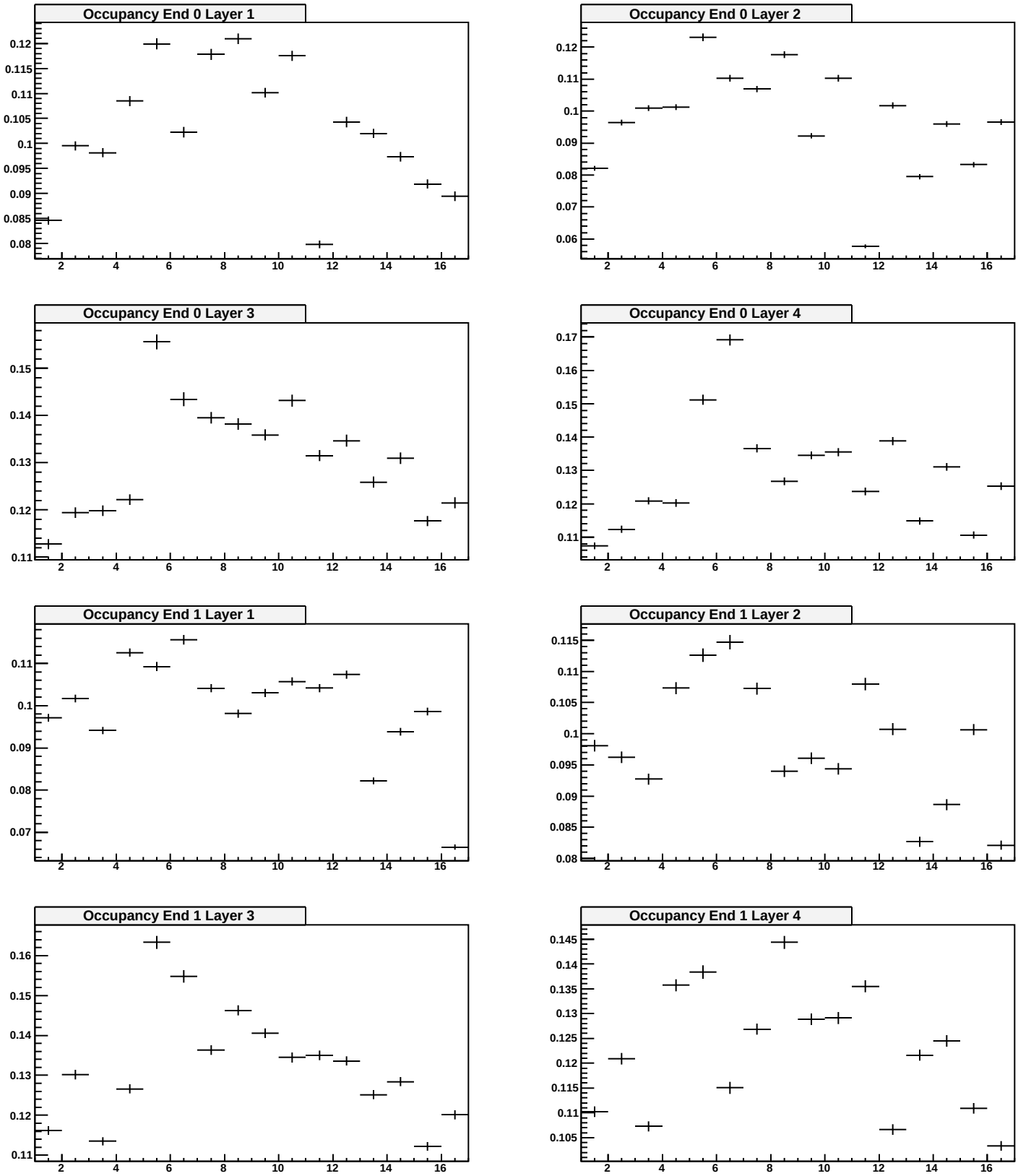
Muon Local Tracks (LooseFamus)



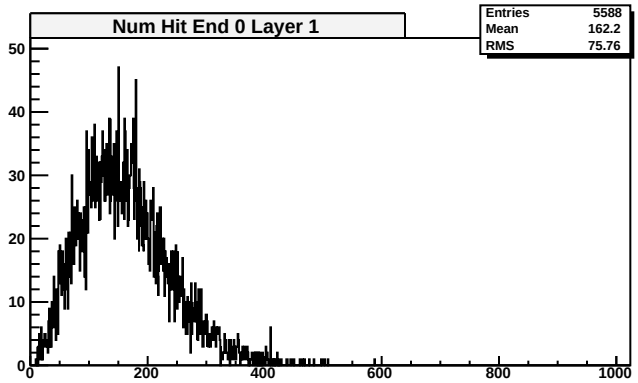
Muon Local Tracks (MediumFamus)

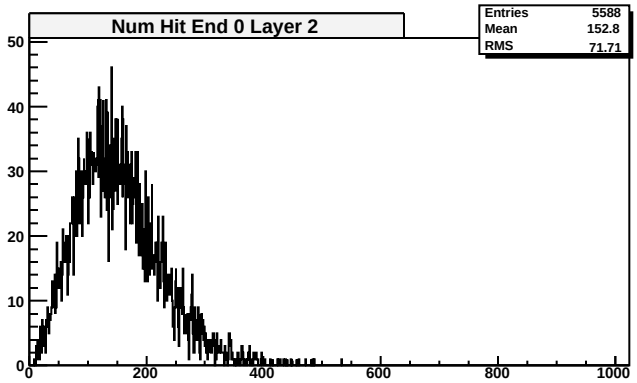


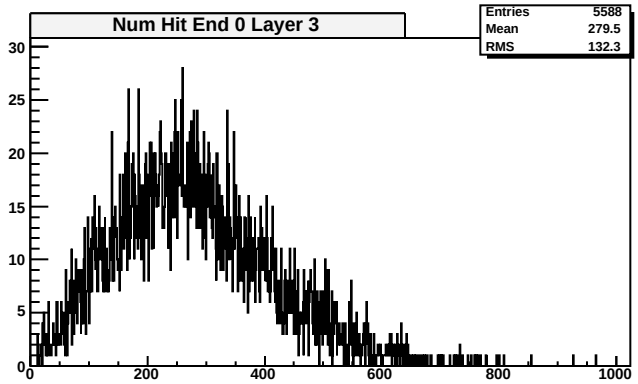
Muon Local Tracks (TightFamus)

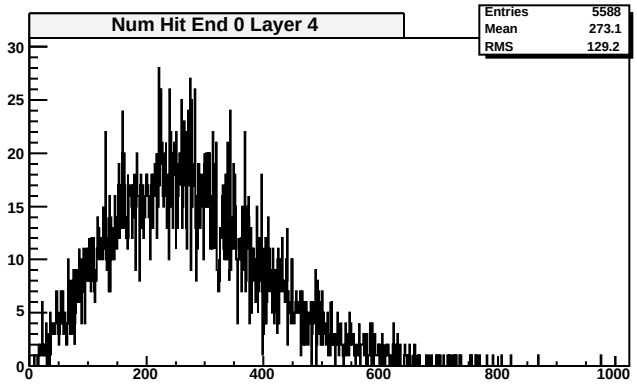


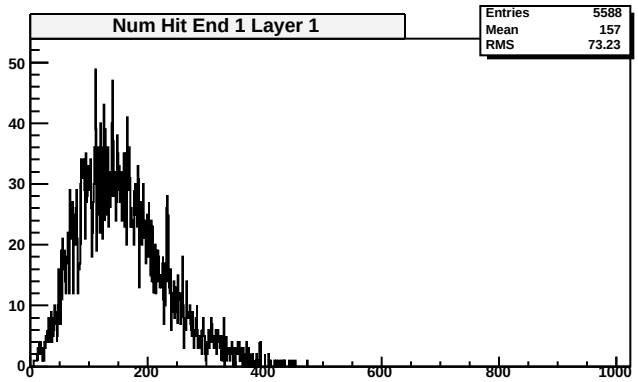
FPS Hit Occupancy (All)

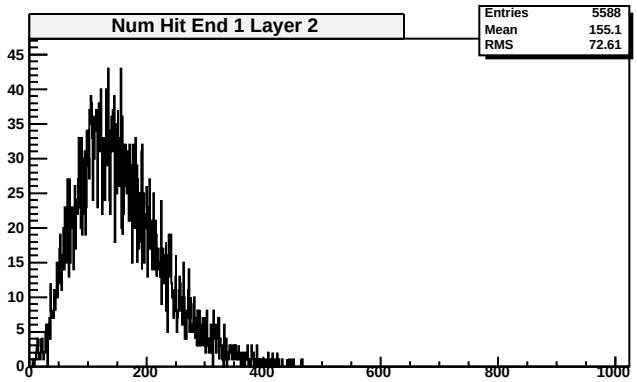


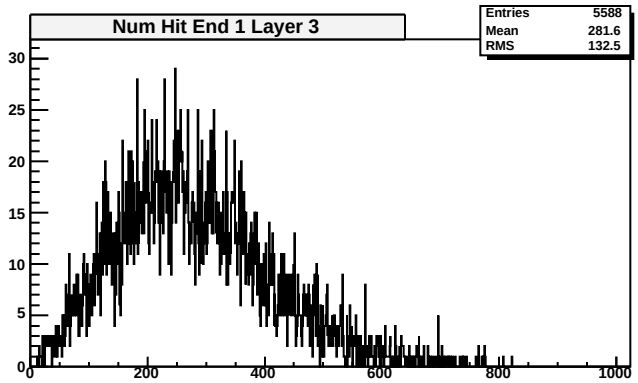


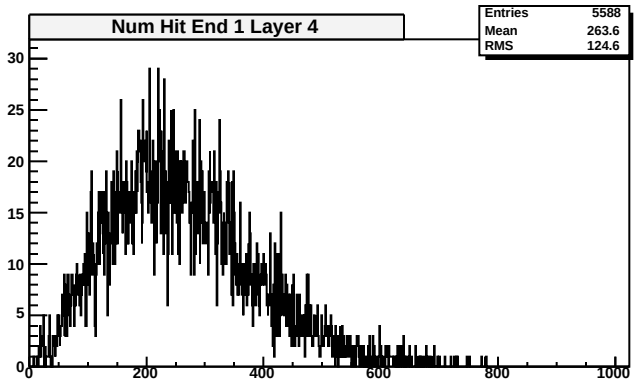




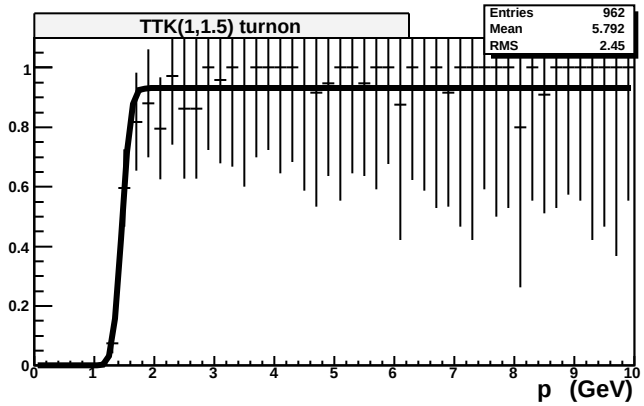


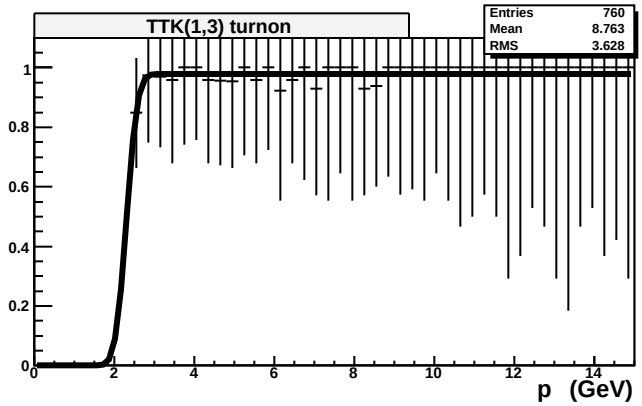


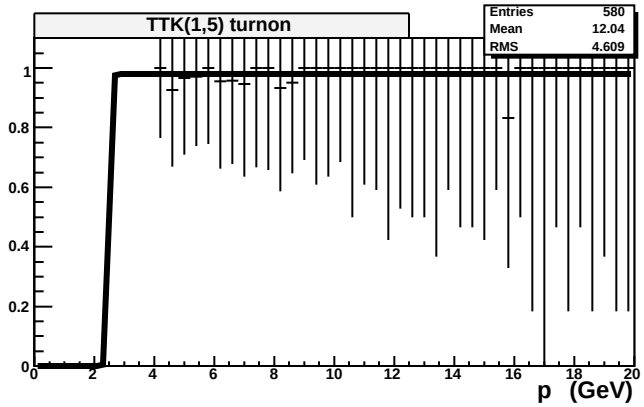


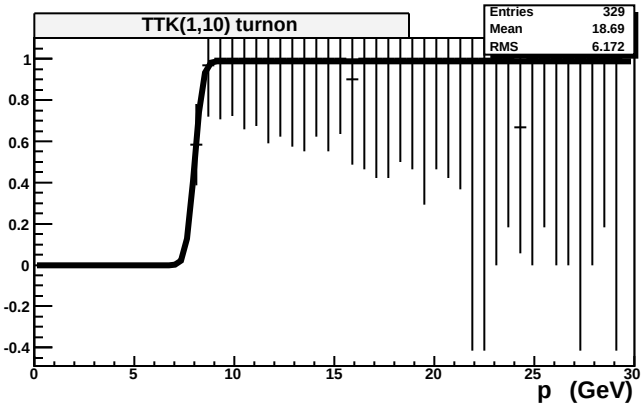


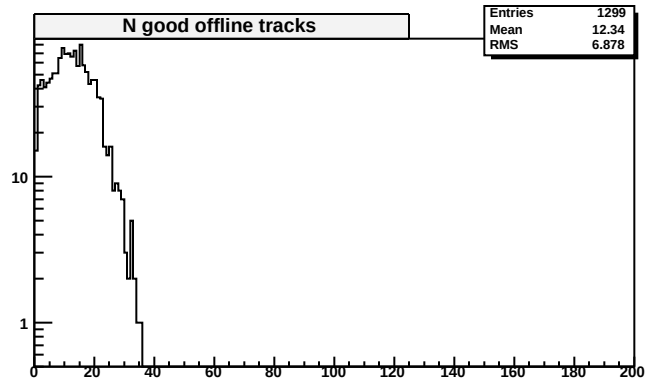
FPS Number of Hits (All)

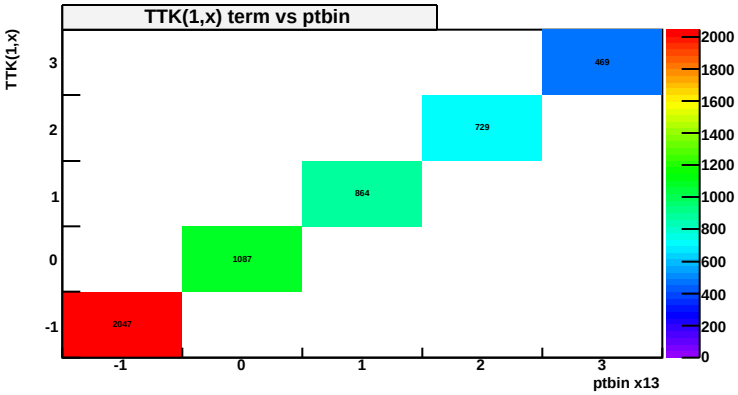


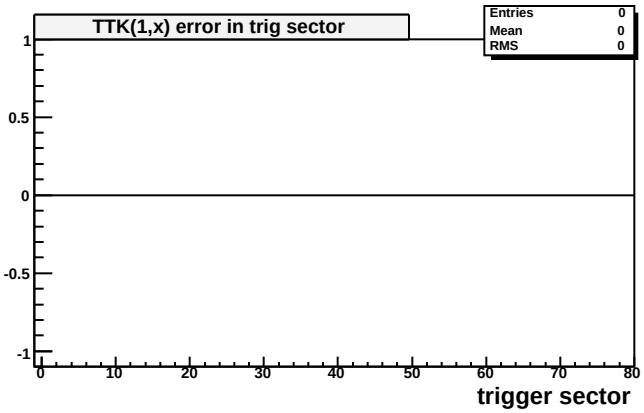


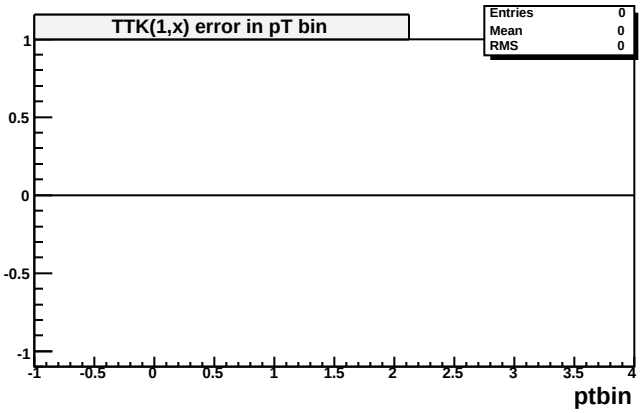












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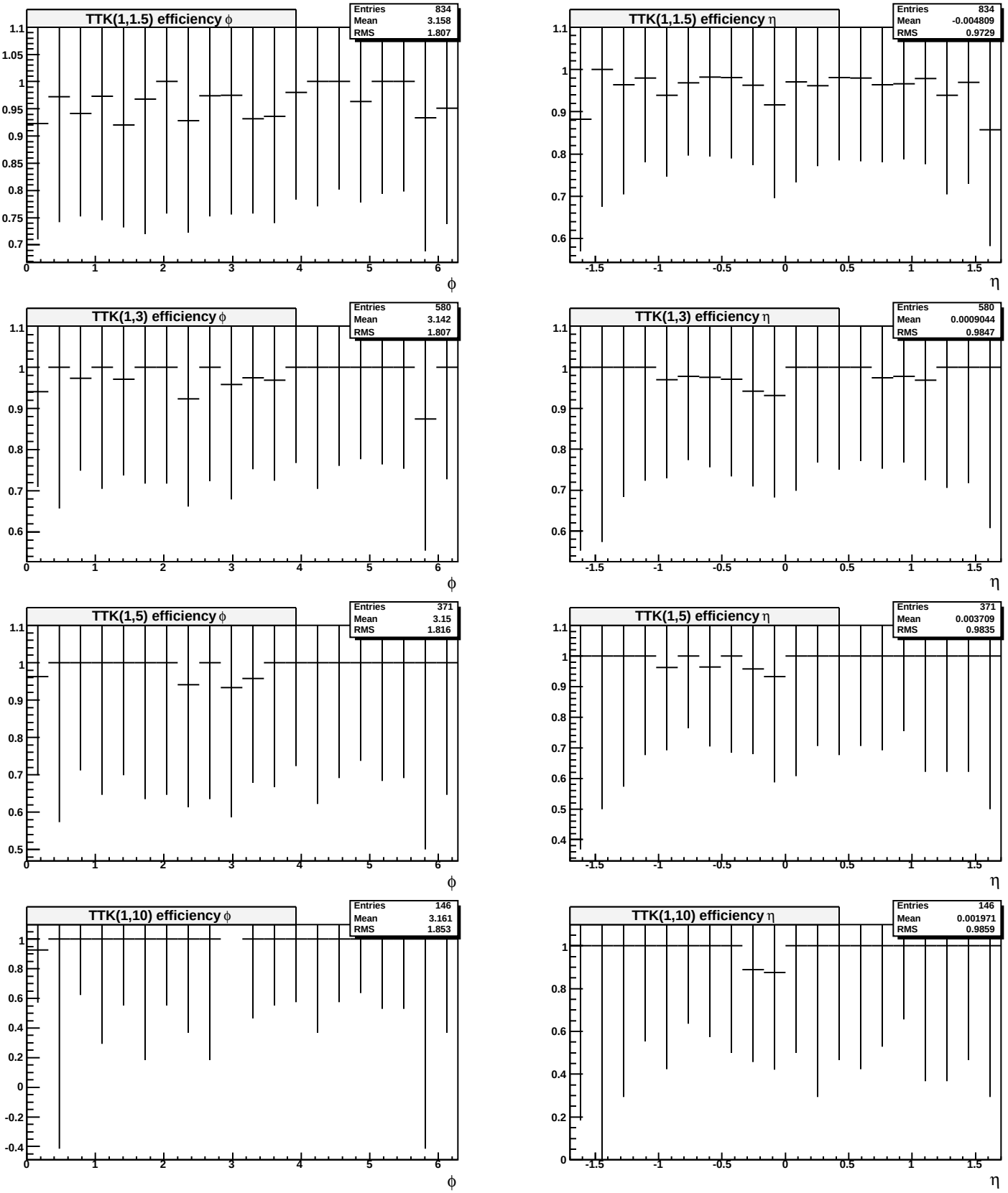

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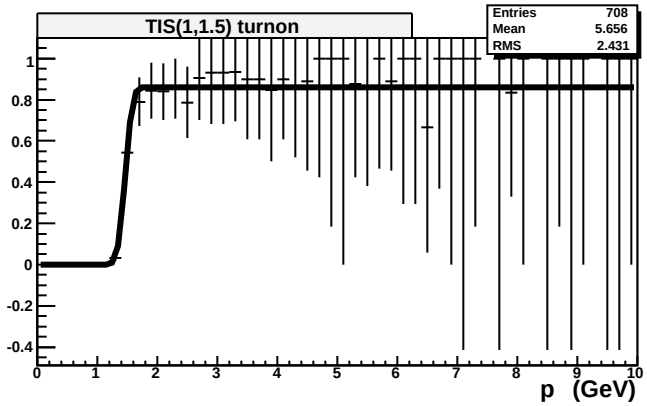

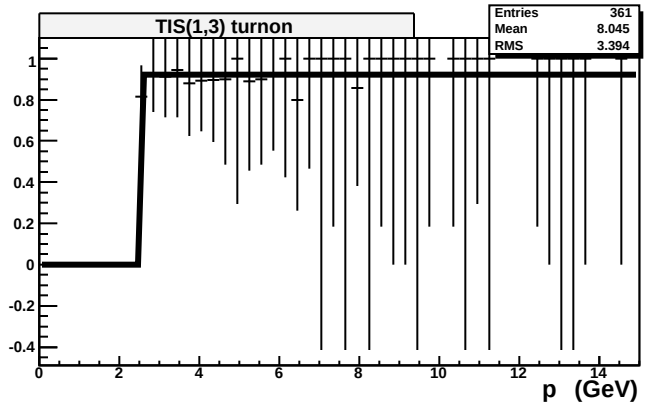

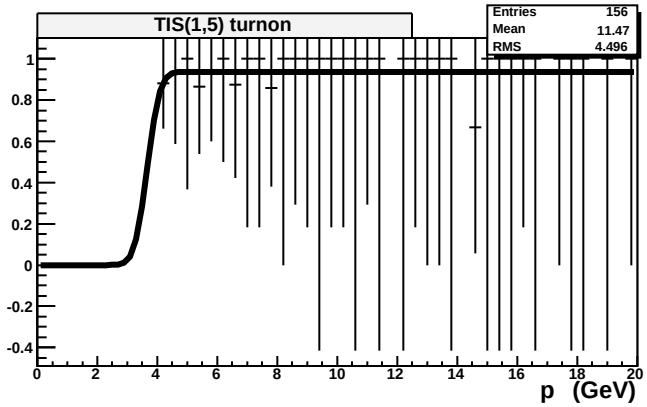

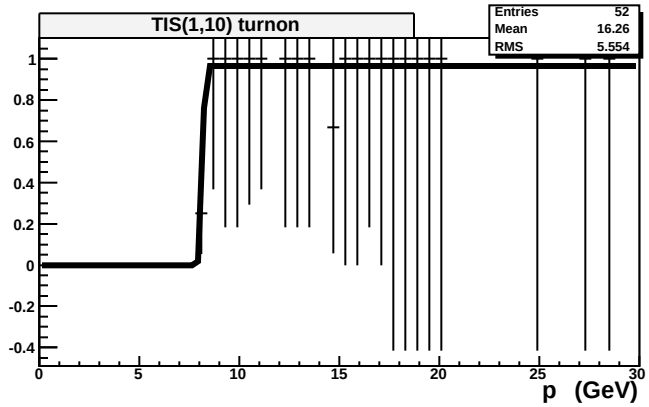

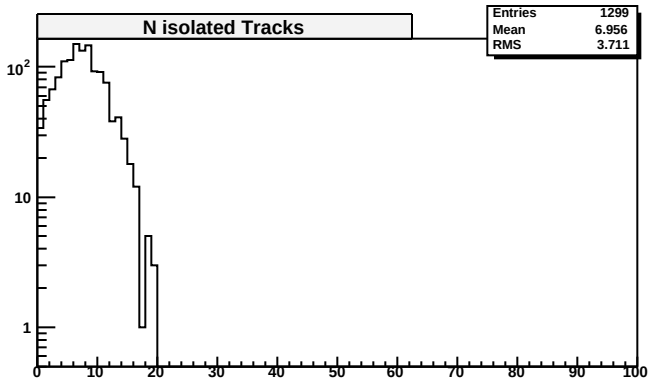

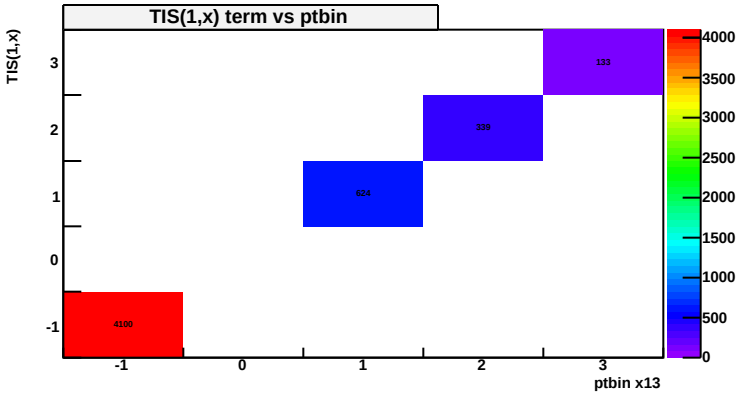

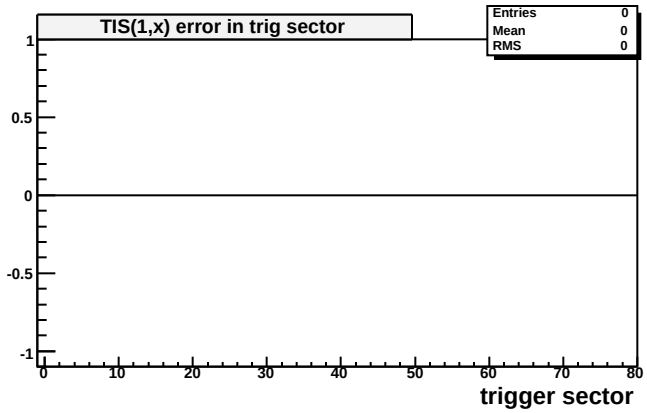

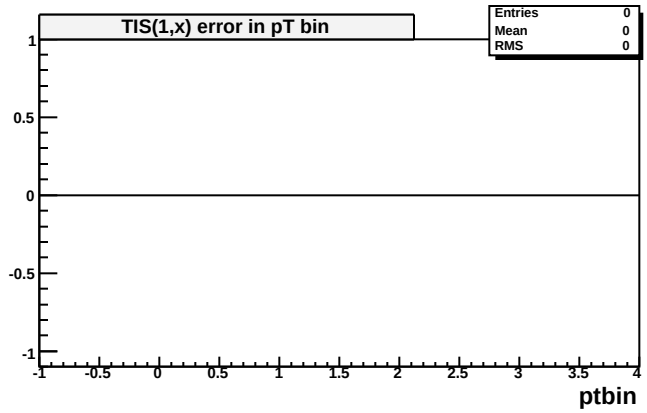

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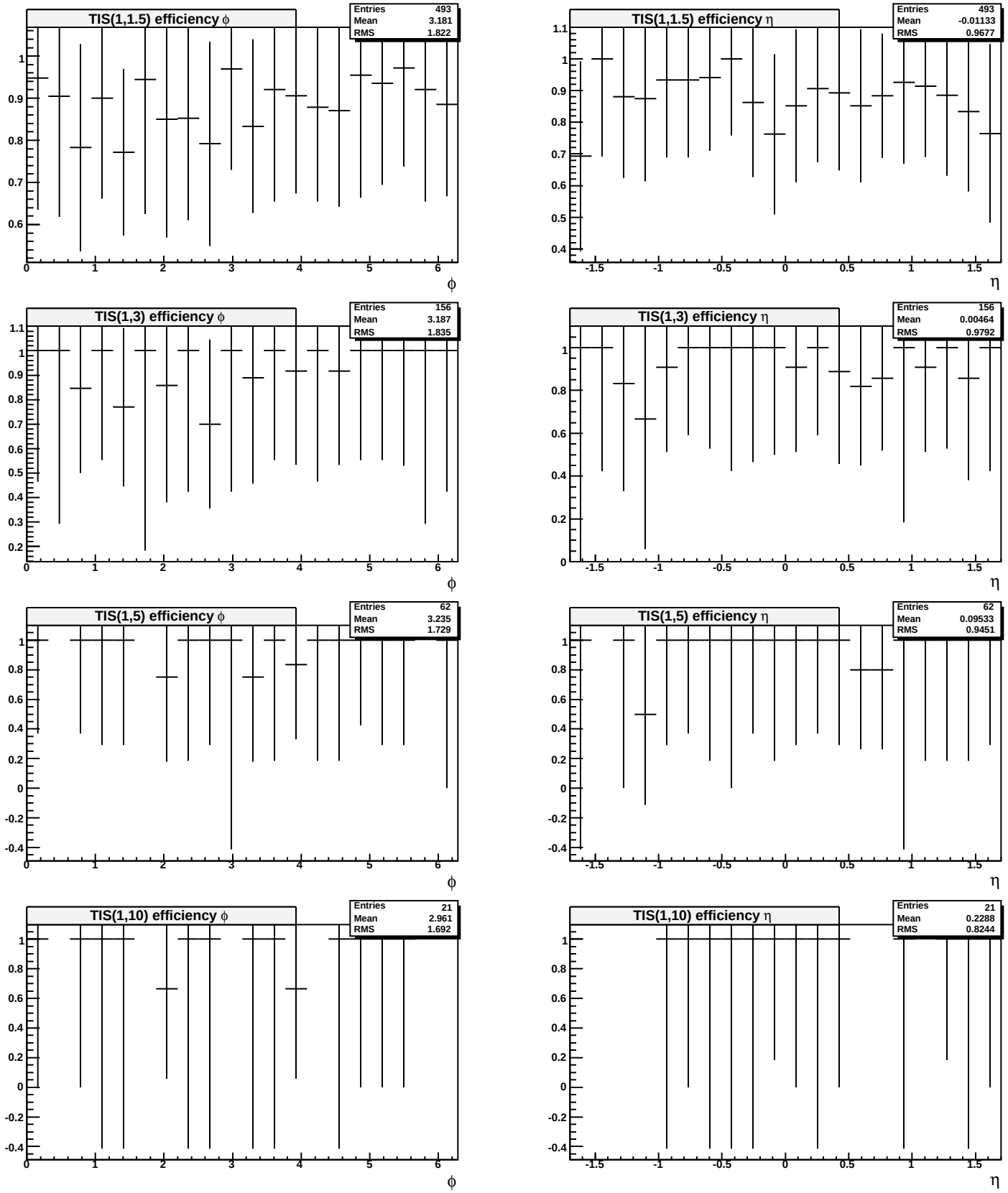

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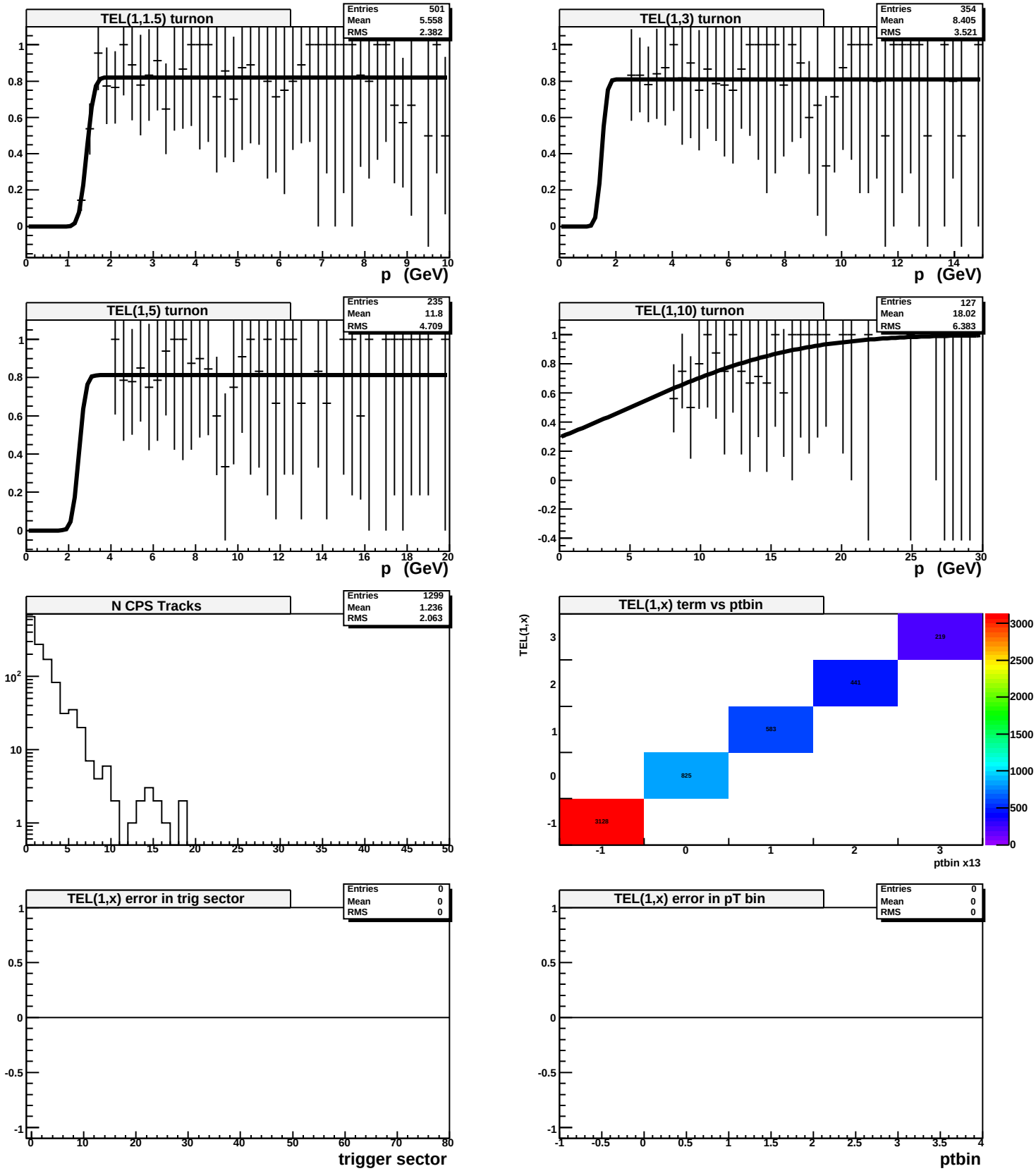

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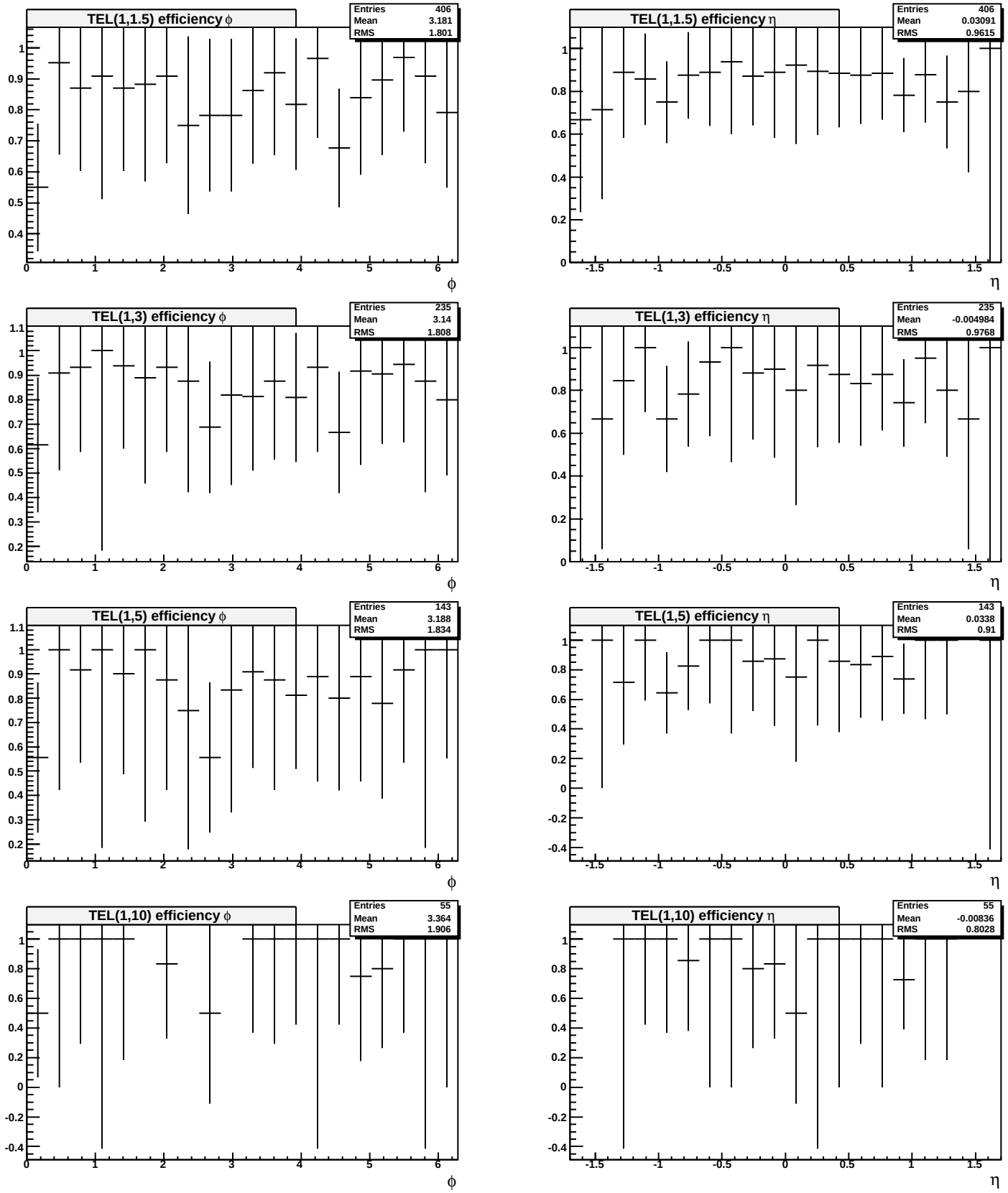

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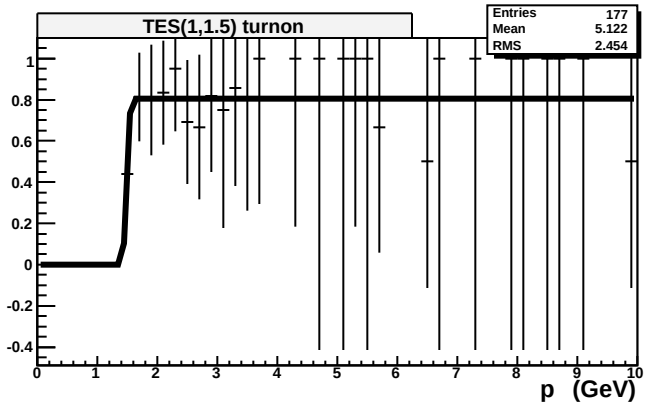

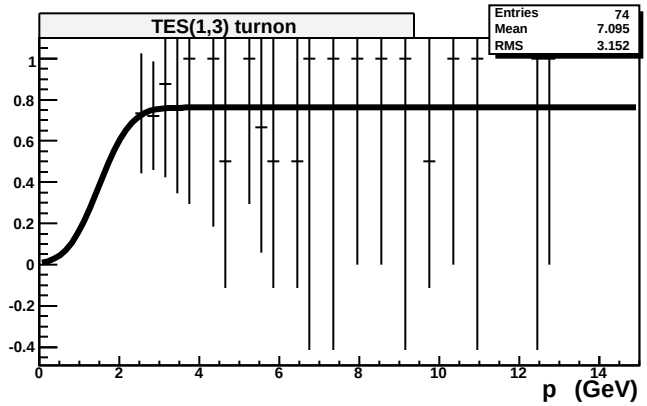

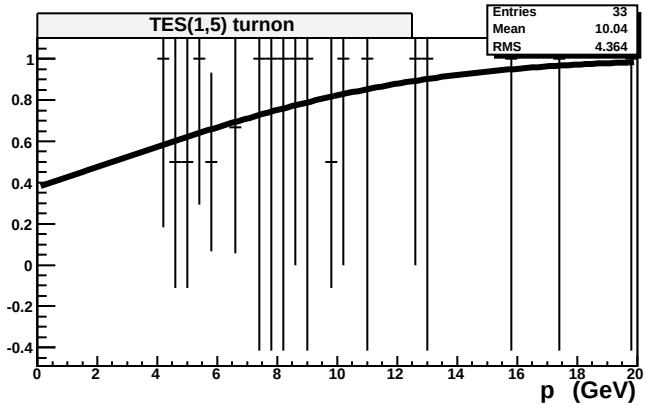

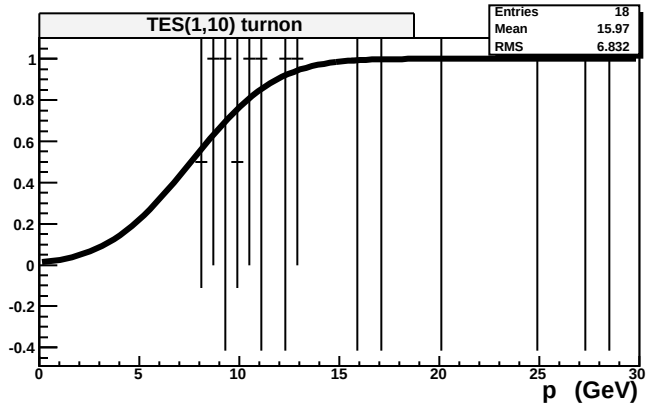

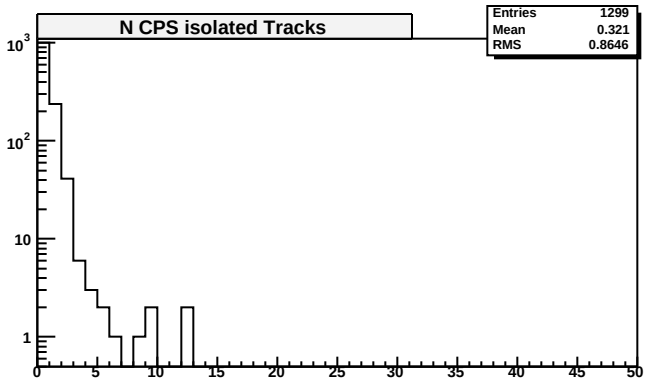

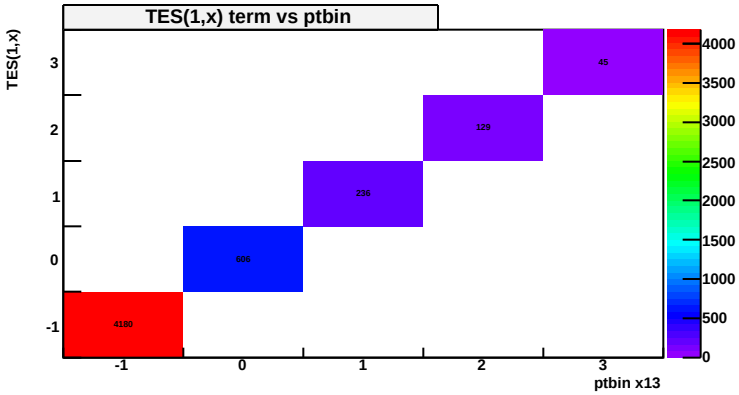

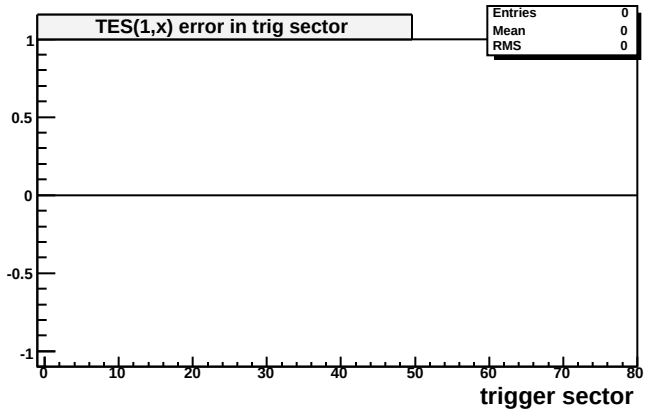

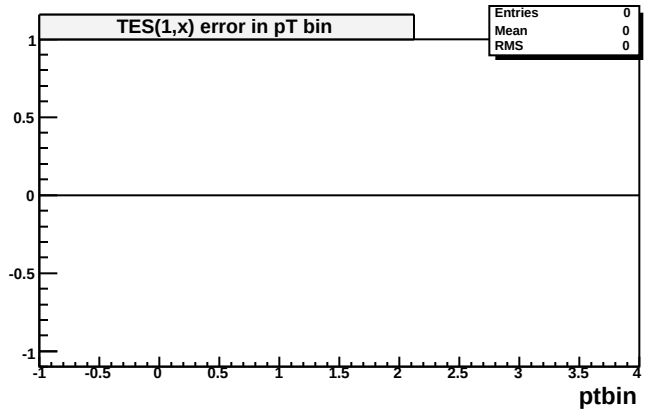

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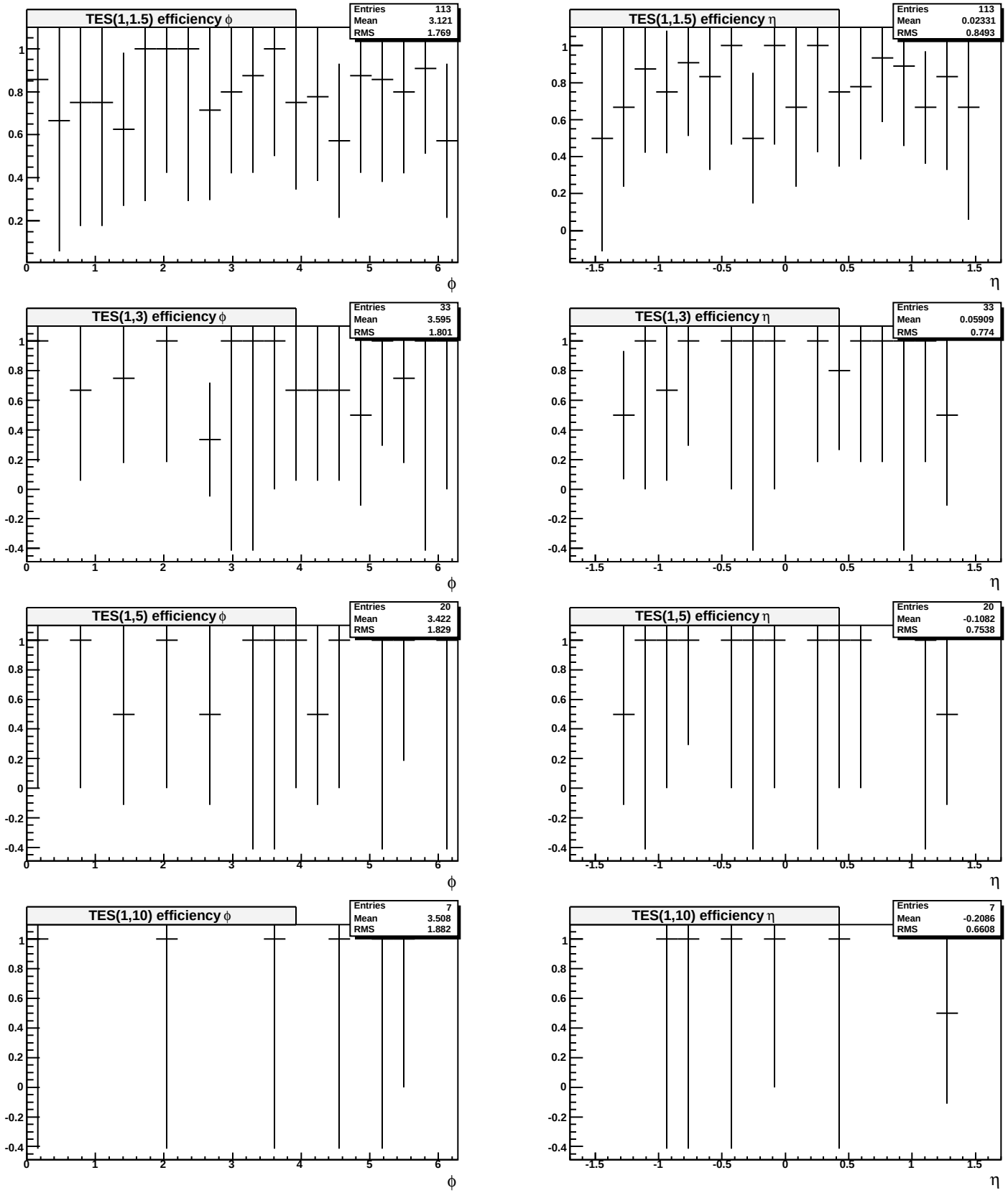

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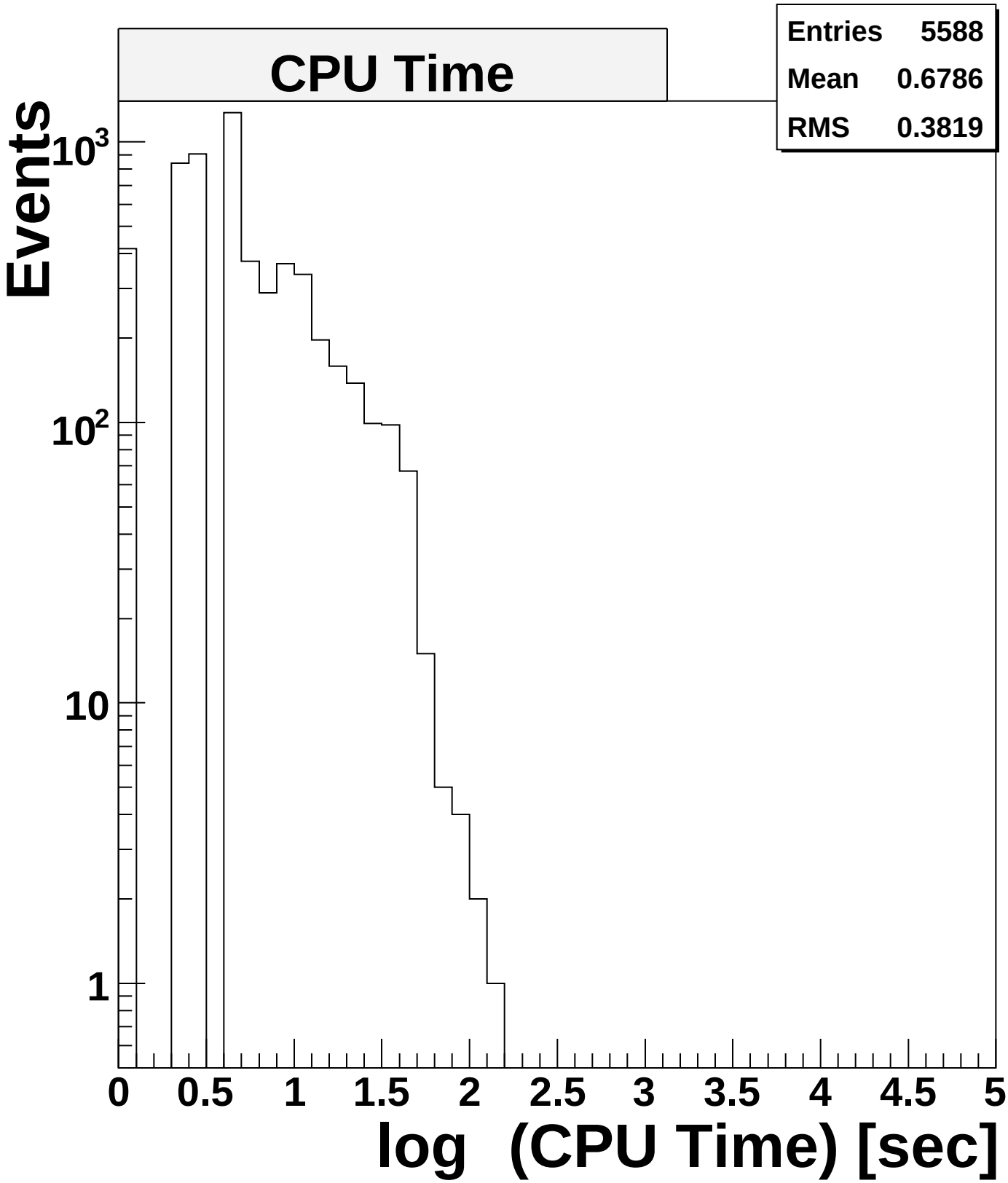

RECO Performance (Timing)