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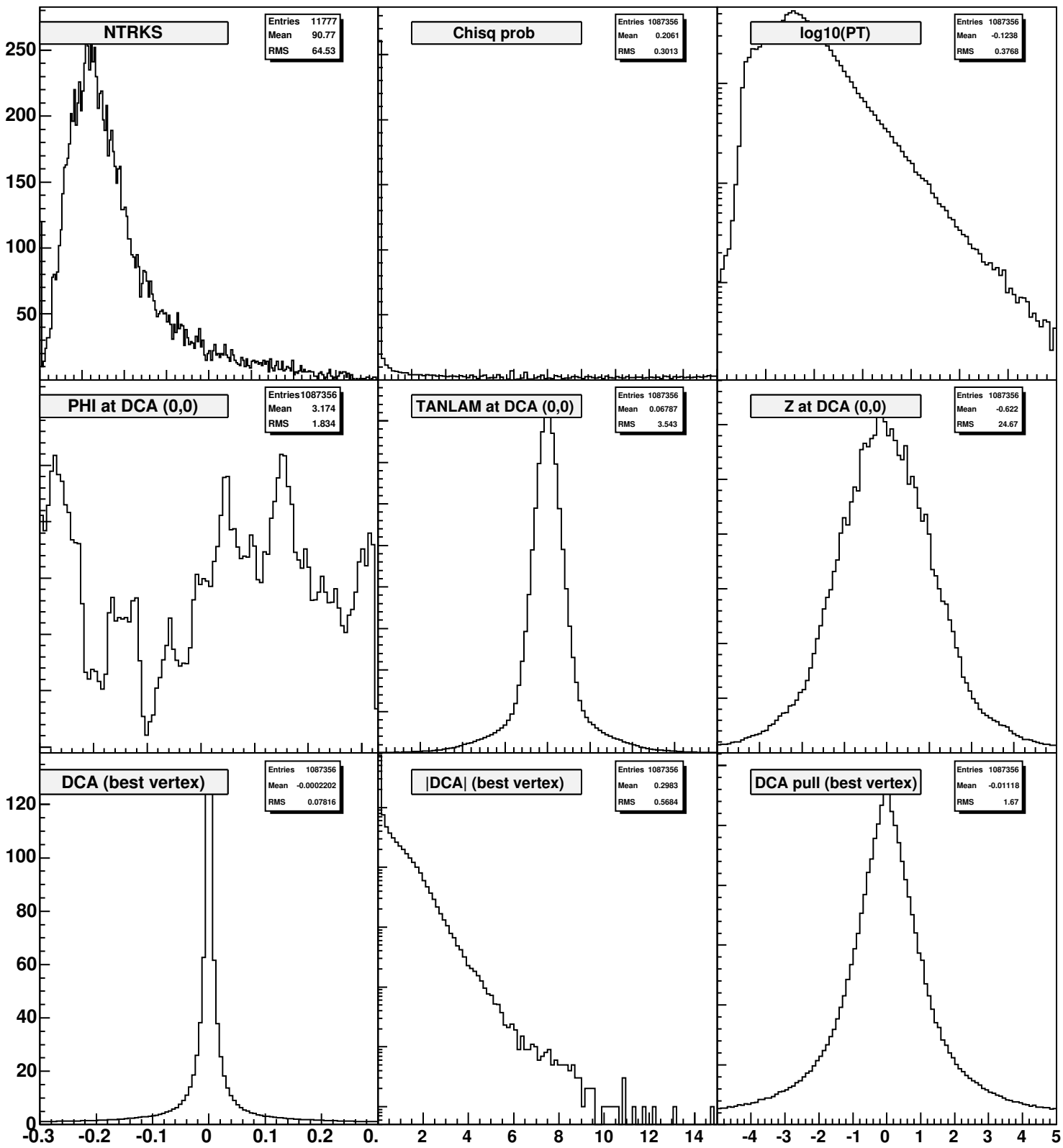
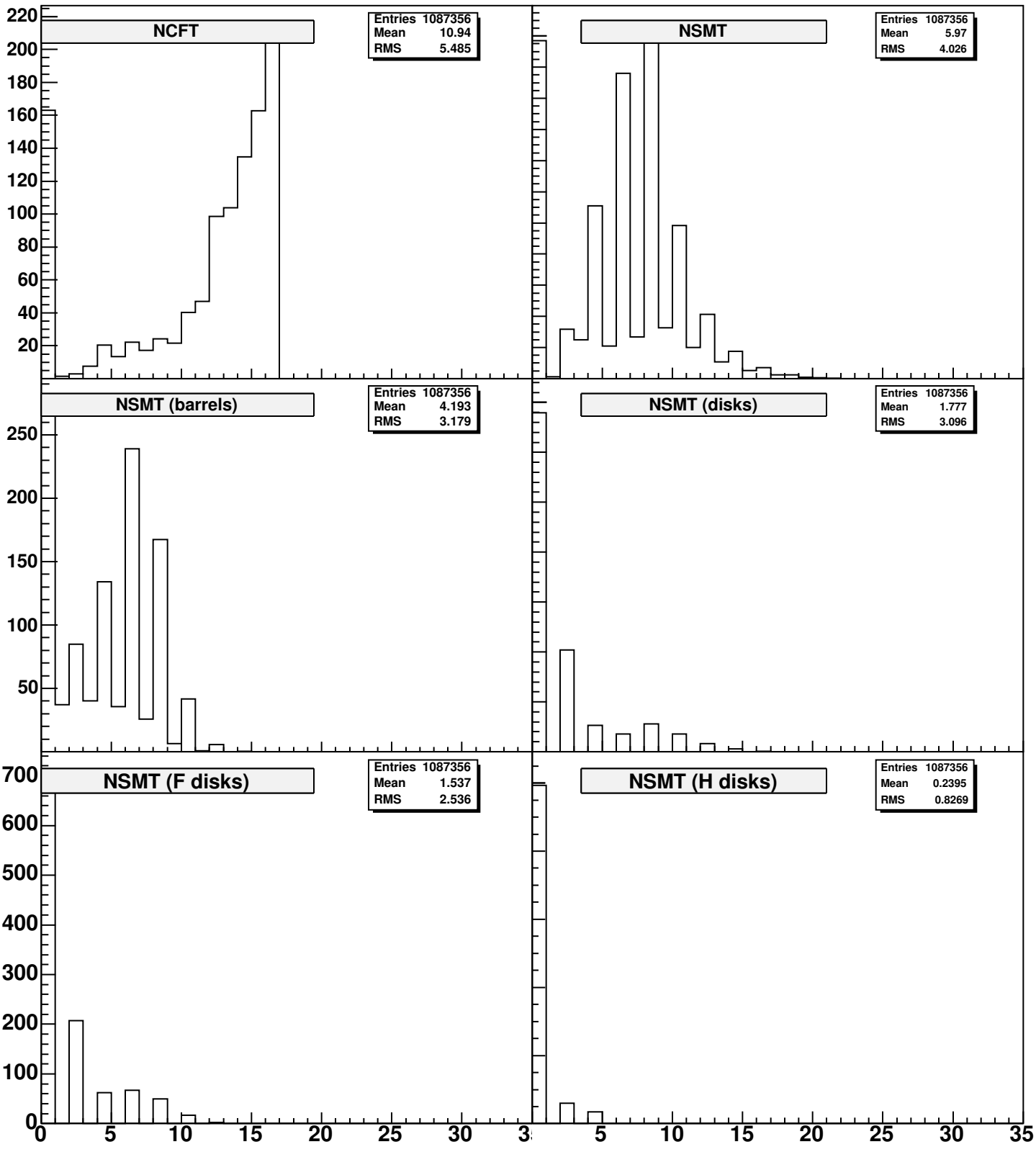
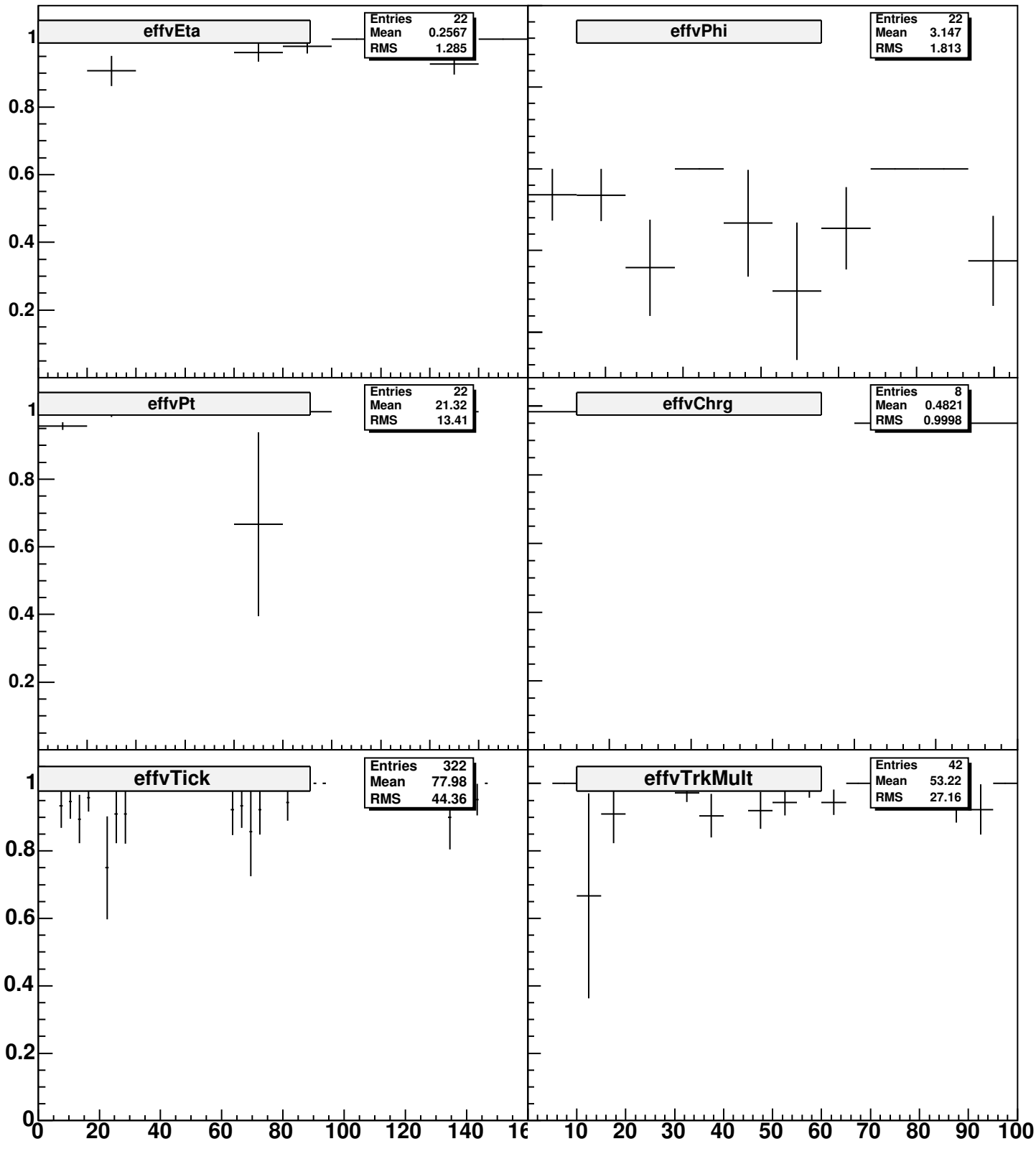
RecoCert_Plots (Index)

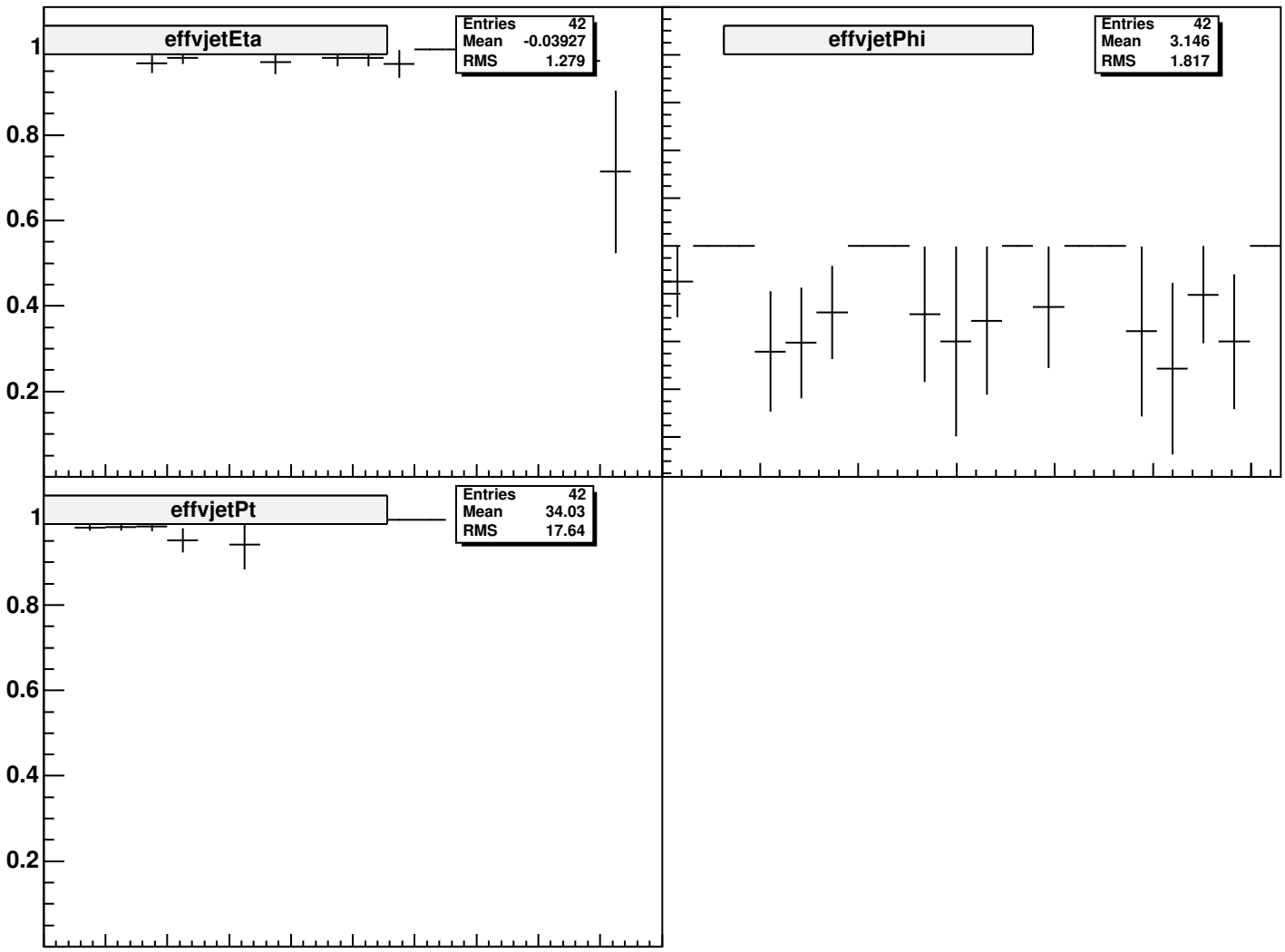

NTRKS
Entries 11777
Mean 90.77
RMS 64.53
Chisq prob
Entries 1087356
Mean 0.2061
RMS 0.3013
log10(PT)
Entries 1087356
Mean -0.1238
RMS 0.3768
PHI at DCA (0,0)
Entries 1087356
Mean 3.174
RMS 1.834
TANLAM at DCA (0,0)
Entries 1087356
Mean 0.06787
RMS 3.543
Z at DCA (0,0)
Entries 1087356
Mean -0.622
RMS 24.67
DCA (best vertex)
Entries 1087356
Mean -0.0002202
RMS 0.07816
|DCA| (best vertex)
Entries 1087356
Mean 0.2983
RMS 0.5684
DCA pull (best vertex)
Entries 1087356
Mean -0.01118
RMS 1.67

Tracks (All)

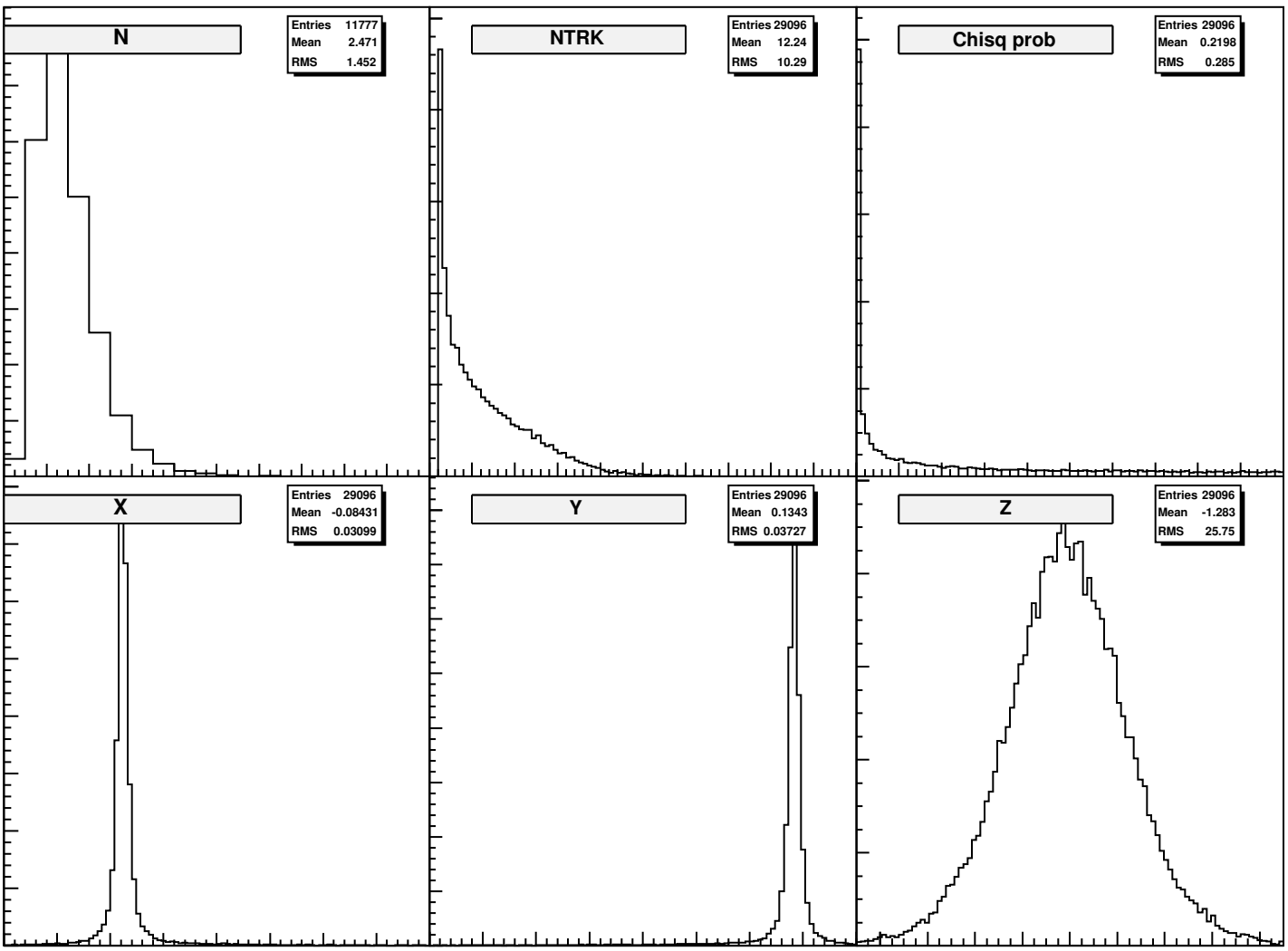

NCFT
Entries 1087356
Mean 10.94
RMS 5.485
NSMT
Entries 1087356
Mean 5.97
RMS 4.026
NSMT (barrels)
Entries 1087356
Mean 4.193
RMS 3.179
NSMT (disks)
Entries 1087356
Mean 1.777
RMS 3.096
NSMT (F disks)
Entries 1087356
Mean 1.537
RMS 2.536
NSMT (H disks)
Entries 1087356
Mean 0.2395
RMS 0.8269
Track Hits (All)



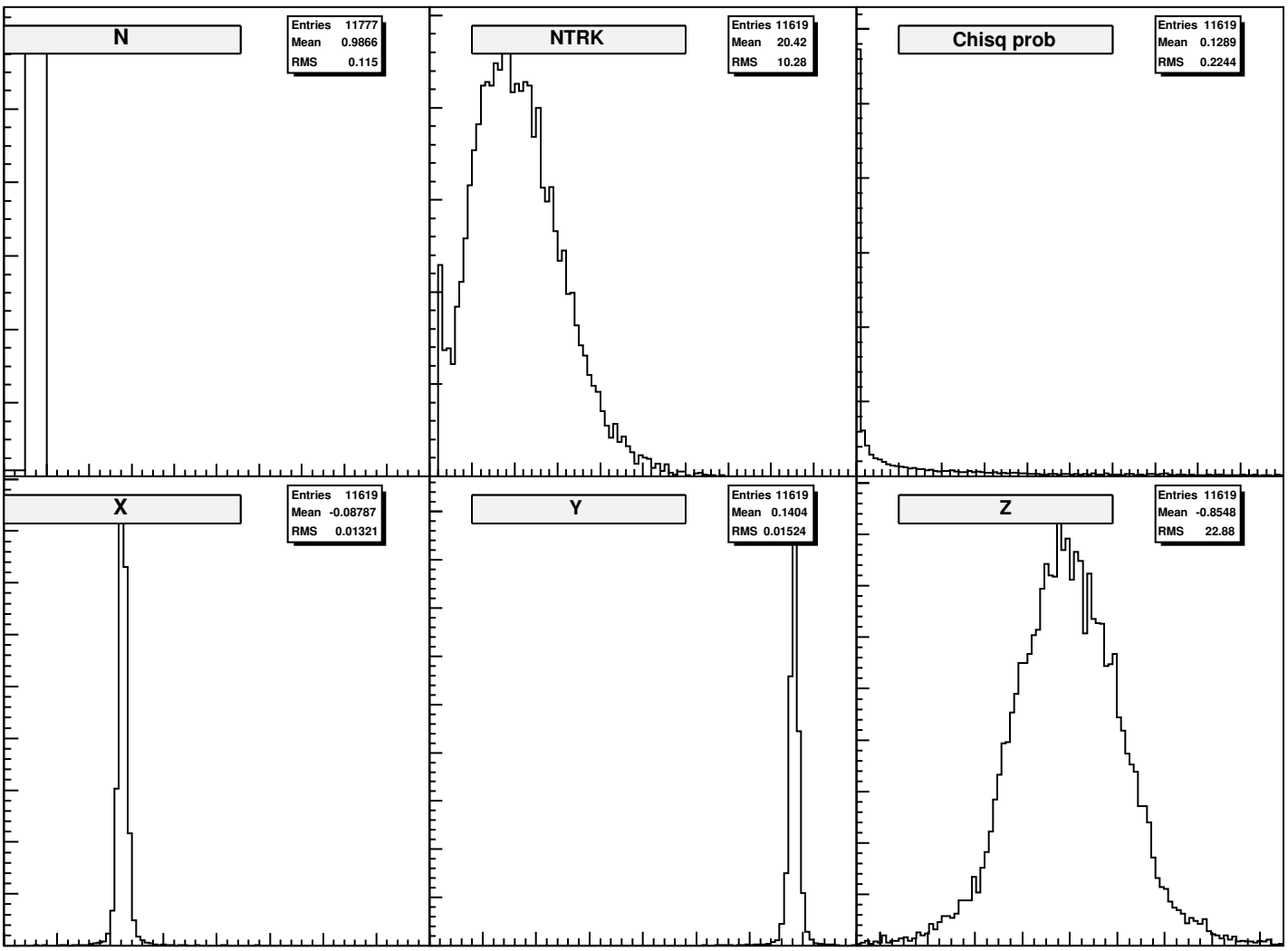
Tracking (Efficiency-Isolated)



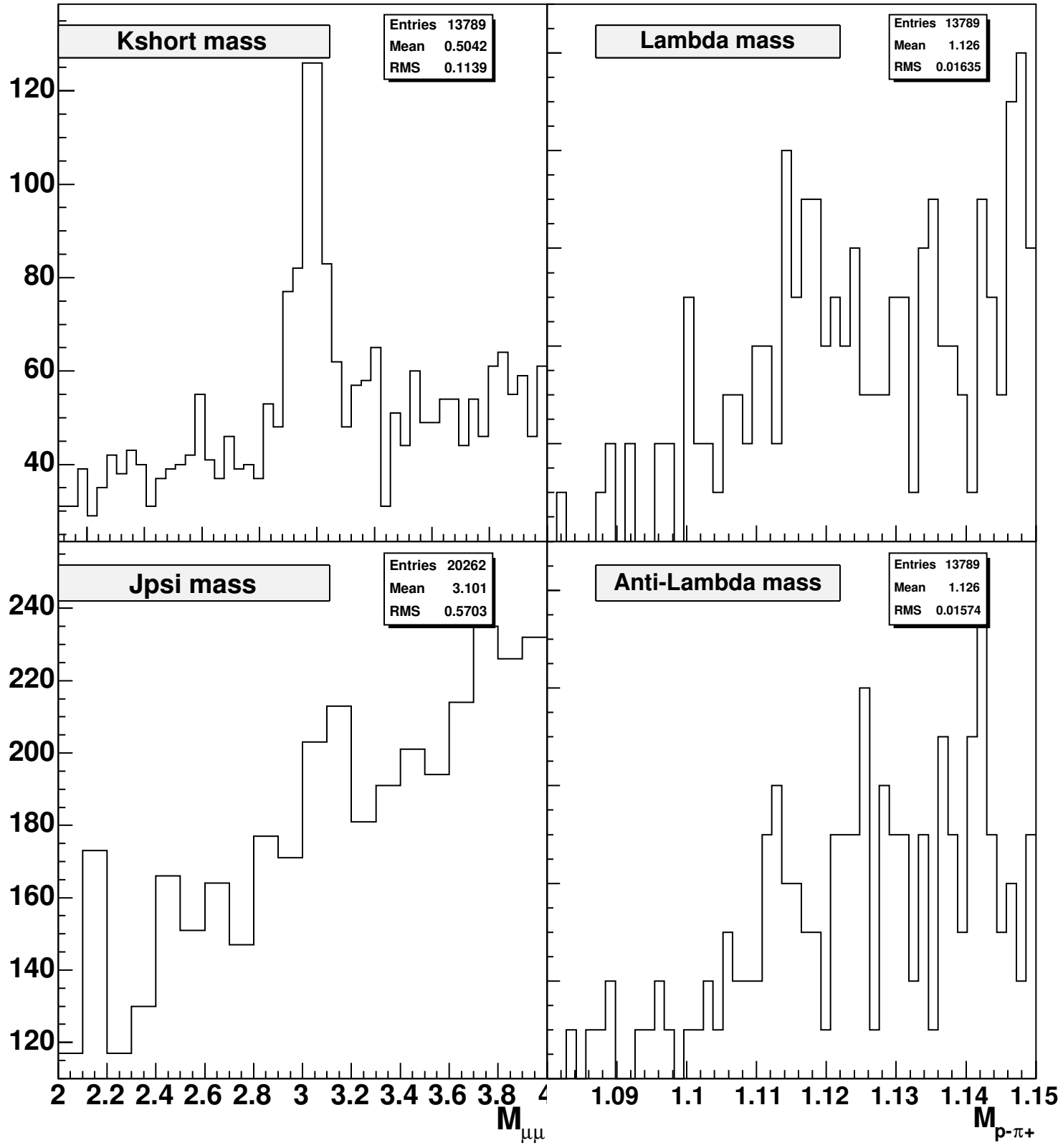
Tracking (Efficiency-InJets)



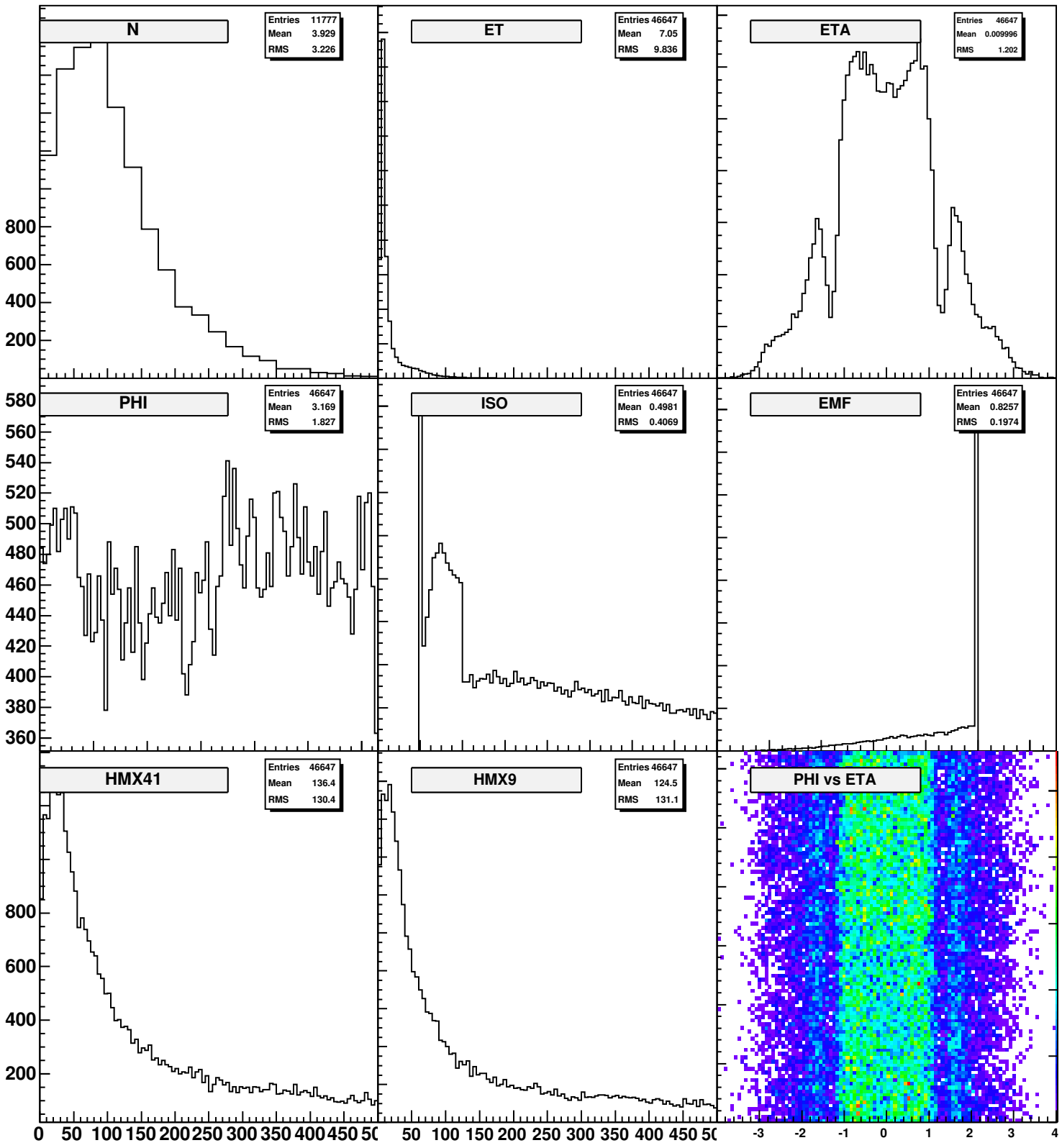
Vertices (Primary - all candidates)



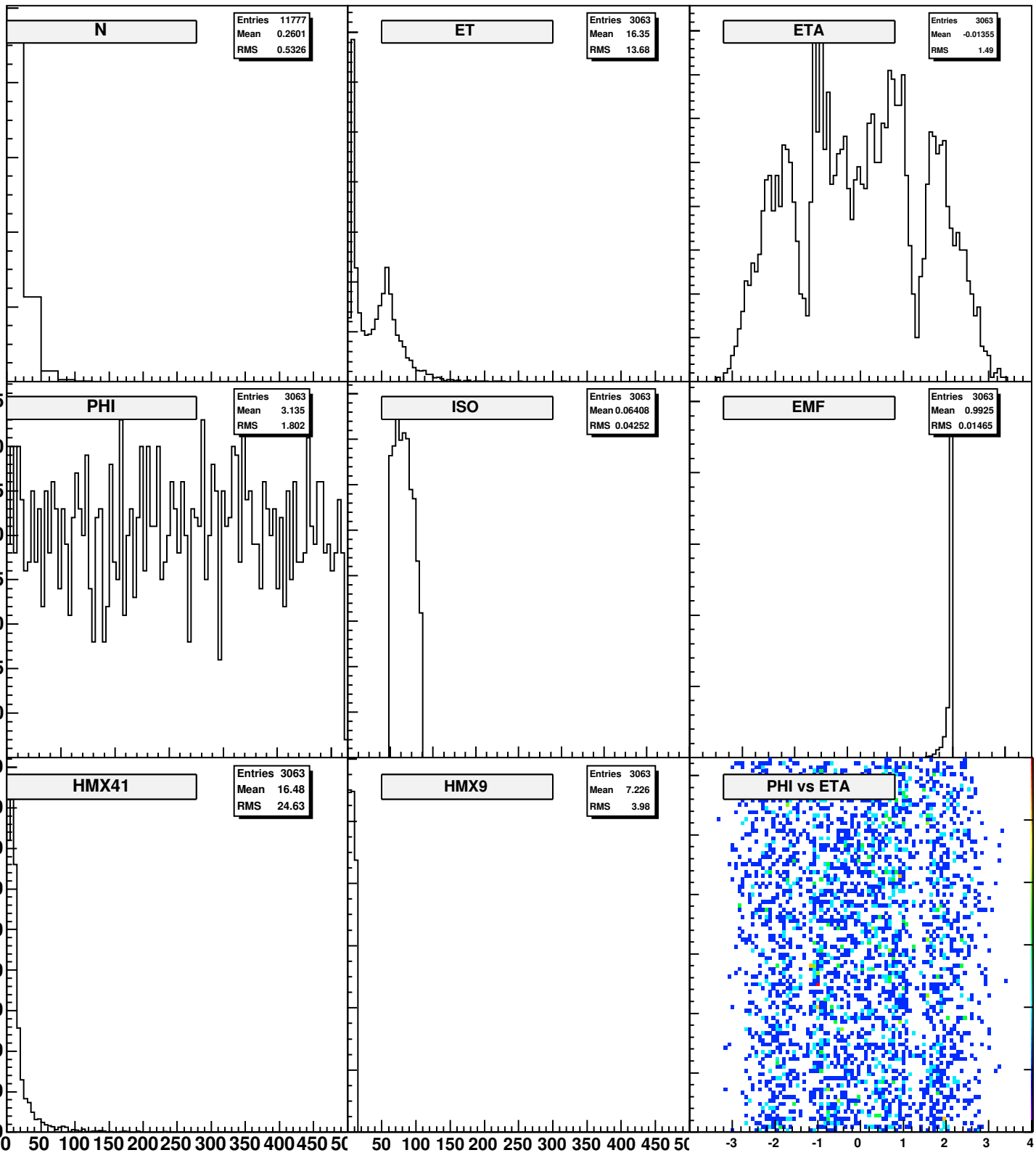
Vertices (Primary - best)


Kshort mass
Entries 13789
Mean 0.5042
RMS 0.1139
Lambda mass
Entries 13789
Mean 1.126
RMS 0.01635
Jpsi mass
Entries 20262
Mean 3.101
RMS 0.5703
Anti-Lambda mass
Entries 13789
Mean 1.126
RMS 0.01574
120
100
80
60
40
240
220
200
180
160
140
120
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8
1.09 1.1 1.11 1.12 1.13 1.14 1.15
M$_{\mu\mu}$
M$_{p\text{-}\pi+}$

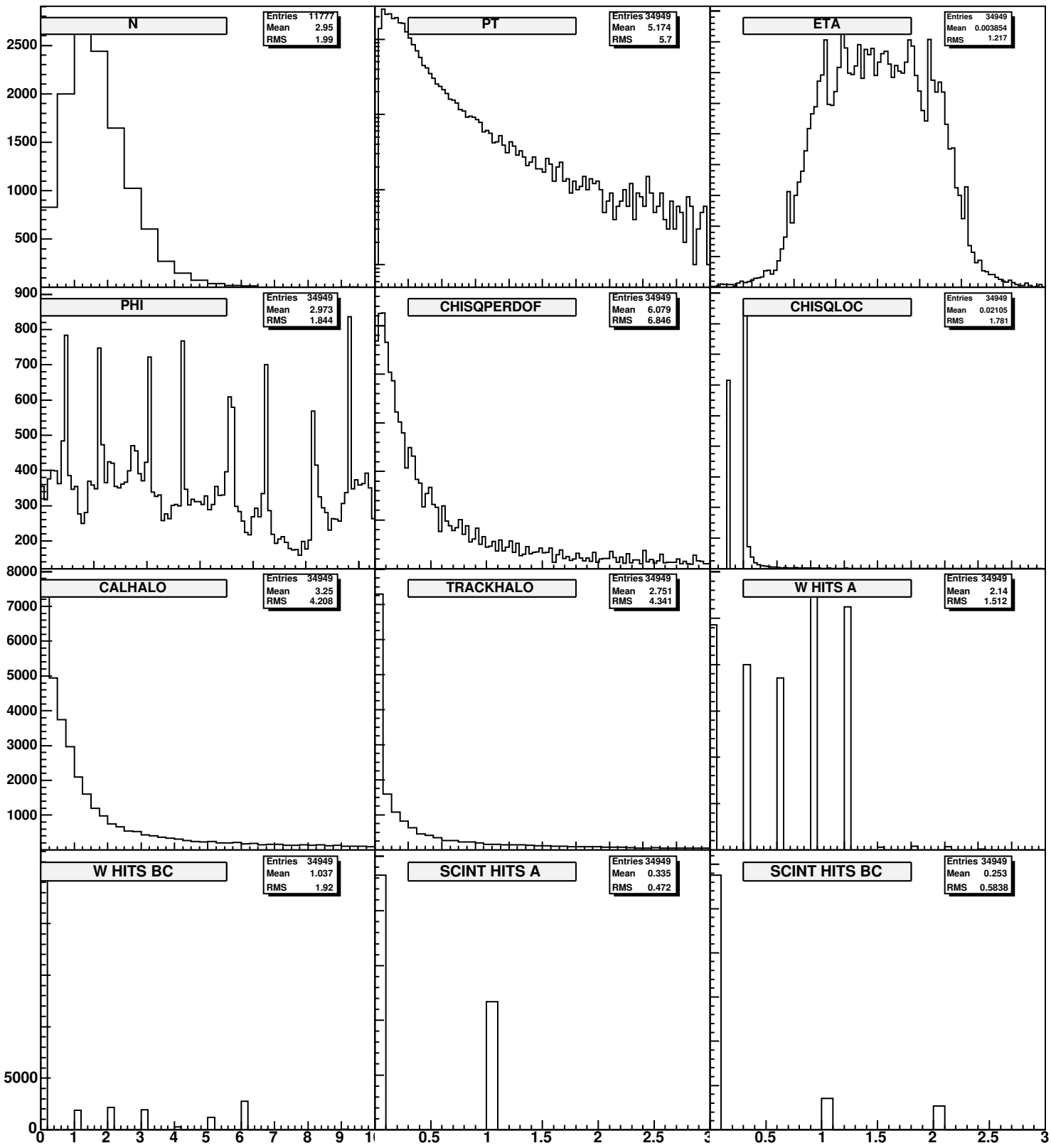
V0 (All)



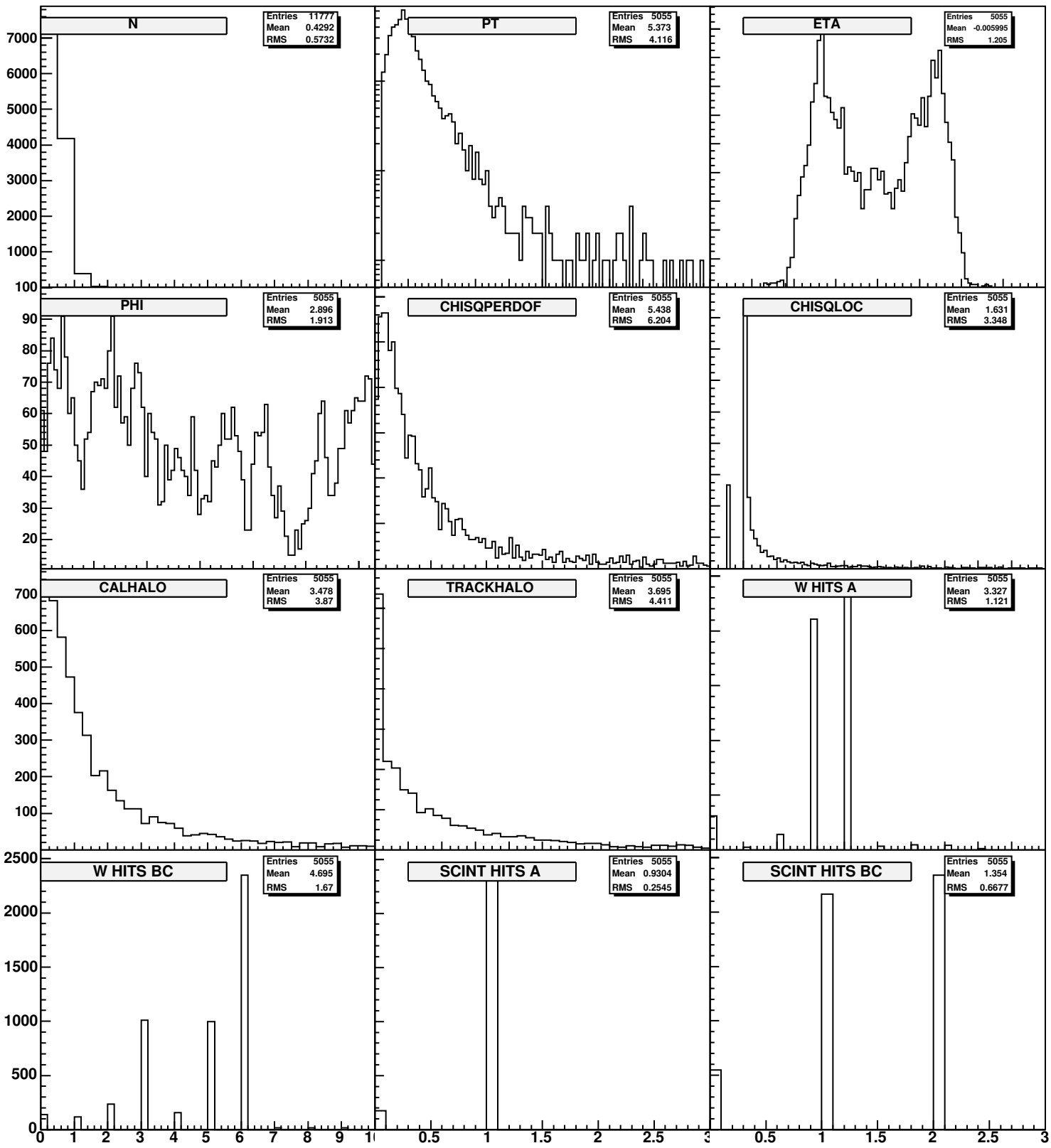
Electrons (SCONE All)



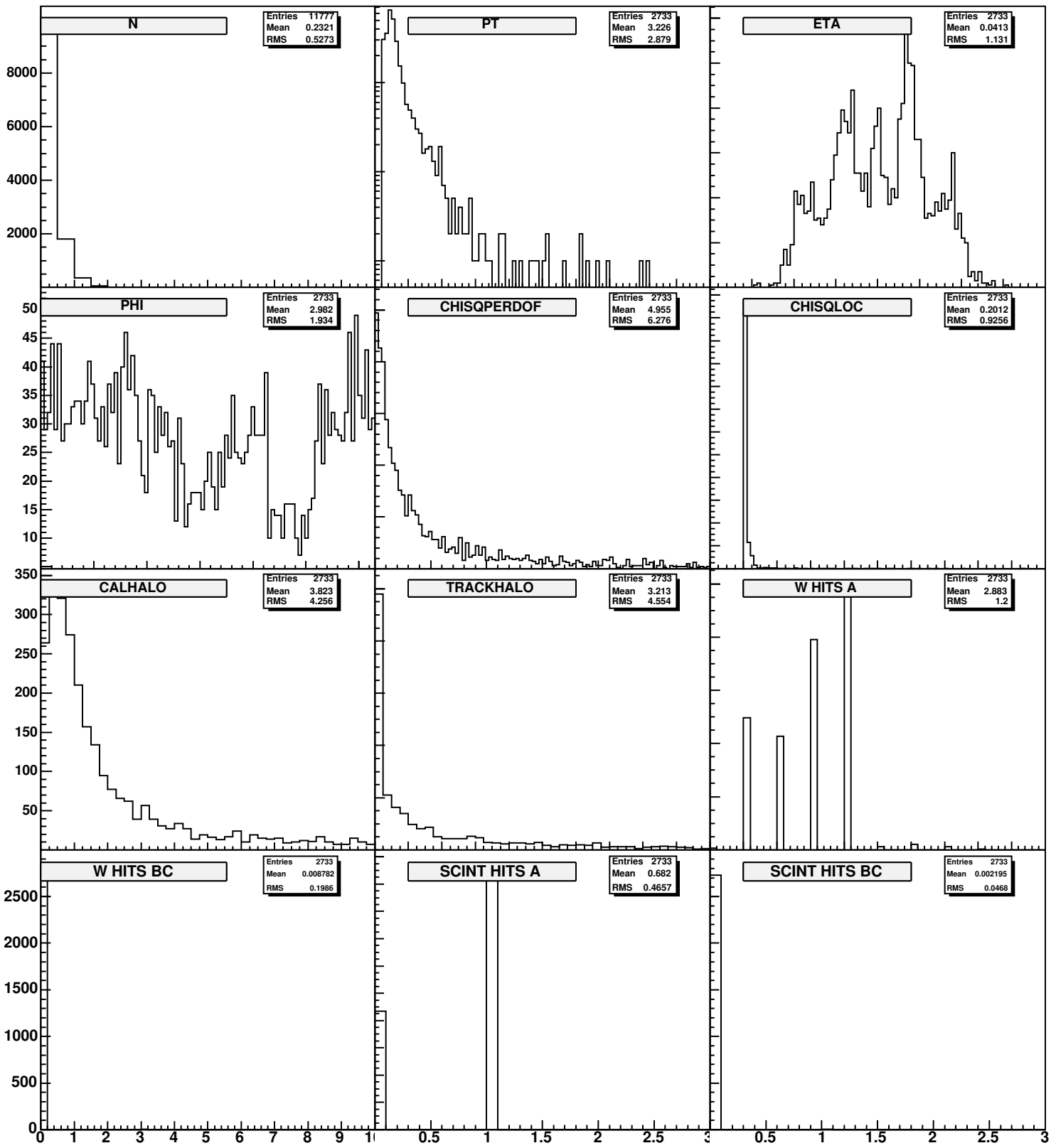
Electrons (SCONE Tight)


N
Entries 11777
Mean 2.95
RMS 1.99
PT
Entries 34949
Mean 5.174
RMS 5.7
ETA
Entries 34949
Mean 0.003854
RMS 1.217
PHI
Entries 34949
Mean 2.973
RMS 1.844
CHISQPERDOF
Entries 34949
Mean 6.079
RMS 6.846
CHISQLOC
Entries 34949
Mean 0.02105
RMS 1.781
CALHALO
Entries 34949
Mean 3.25
RMS 4.208
TRACKHALO
Entries 34949
Mean 2.751
RMS 4.341
W HITS A
Entries 34949
Mean 2.14
RMS 1.512
W HITS BC
Entries 34949
Mean 1.037
RMS 1.92
SCINT HITS A
Entries 34949
Mean 0.335
RMS 0.472
SCINT HITS BC
Entries 34949
Mean 0.253
RMS 0.5838

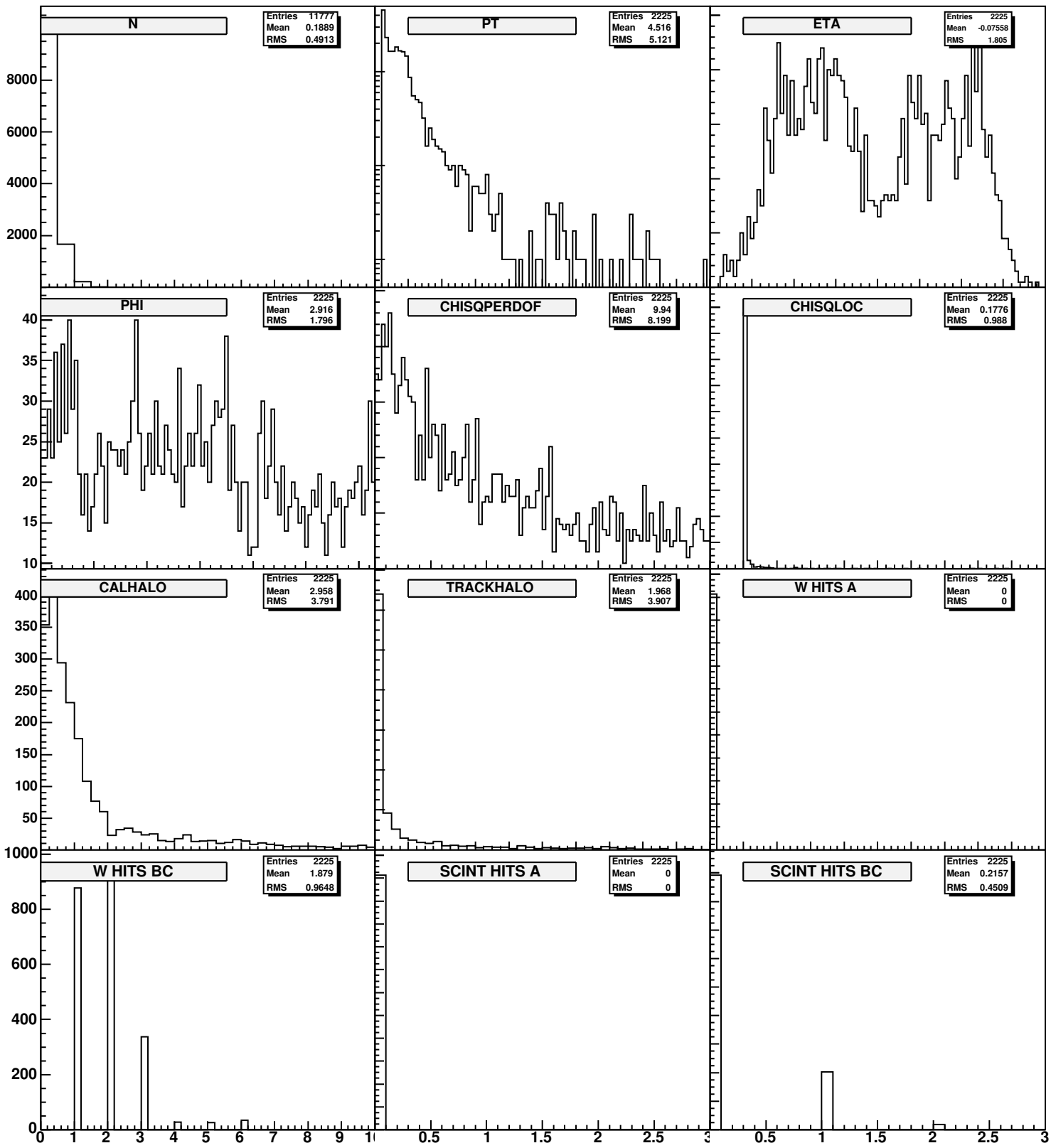
Muons (All)



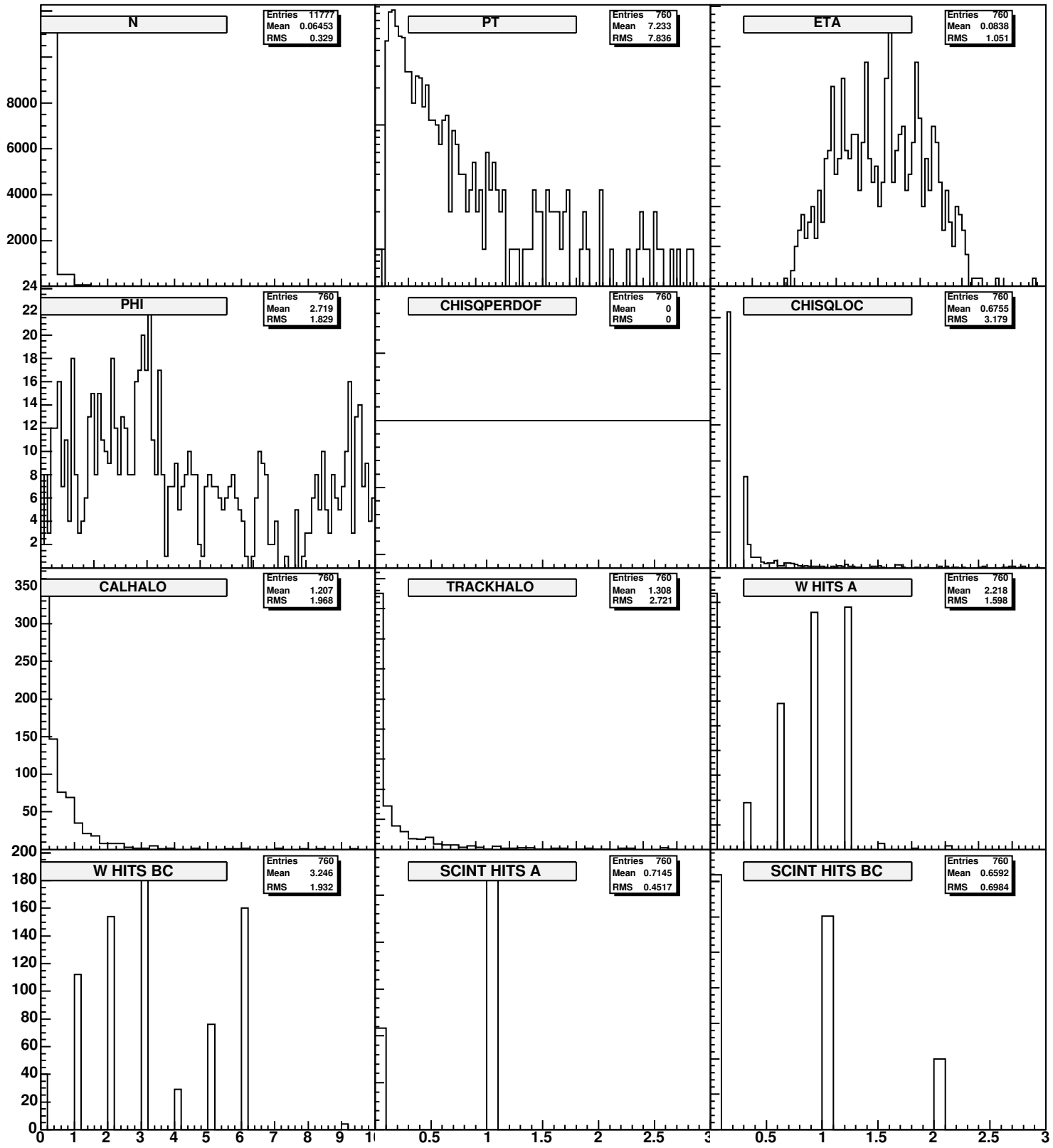
Muons (Matched)


N
Entries 11777
Mean 0.2321
RMS 0.5273
PT
Entries 2733
Mean 3.226
RMS 2.879
ETA
Entries 2733
Mean 0.0413
RMS 1.131
PHI
Entries 2733
Mean 2.982
RMS 1.934
CHISQPERDOF
Entries 2733
Mean 4.955
RMS 6.276
CHISQLOC
Entries 2733
Mean 0.2012
RMS 0.9256
CALHALO
Entries 2733
Mean 3.823
RMS 4.256
TRACKHALO
Entries 2733
Mean 3.213
RMS 4.554
W HITS A
Entries 2733
Mean 2.883
RMS 1.2
W HITS BC
Entries 2733
Mean 0.008782
RMS 0.1986
SCINT HITS A
Entries 2733
Mean 0.682
RMS 0.4657
SCINT HITS BC
Entries 2733
Mean 0.002195
RMS 0.0468

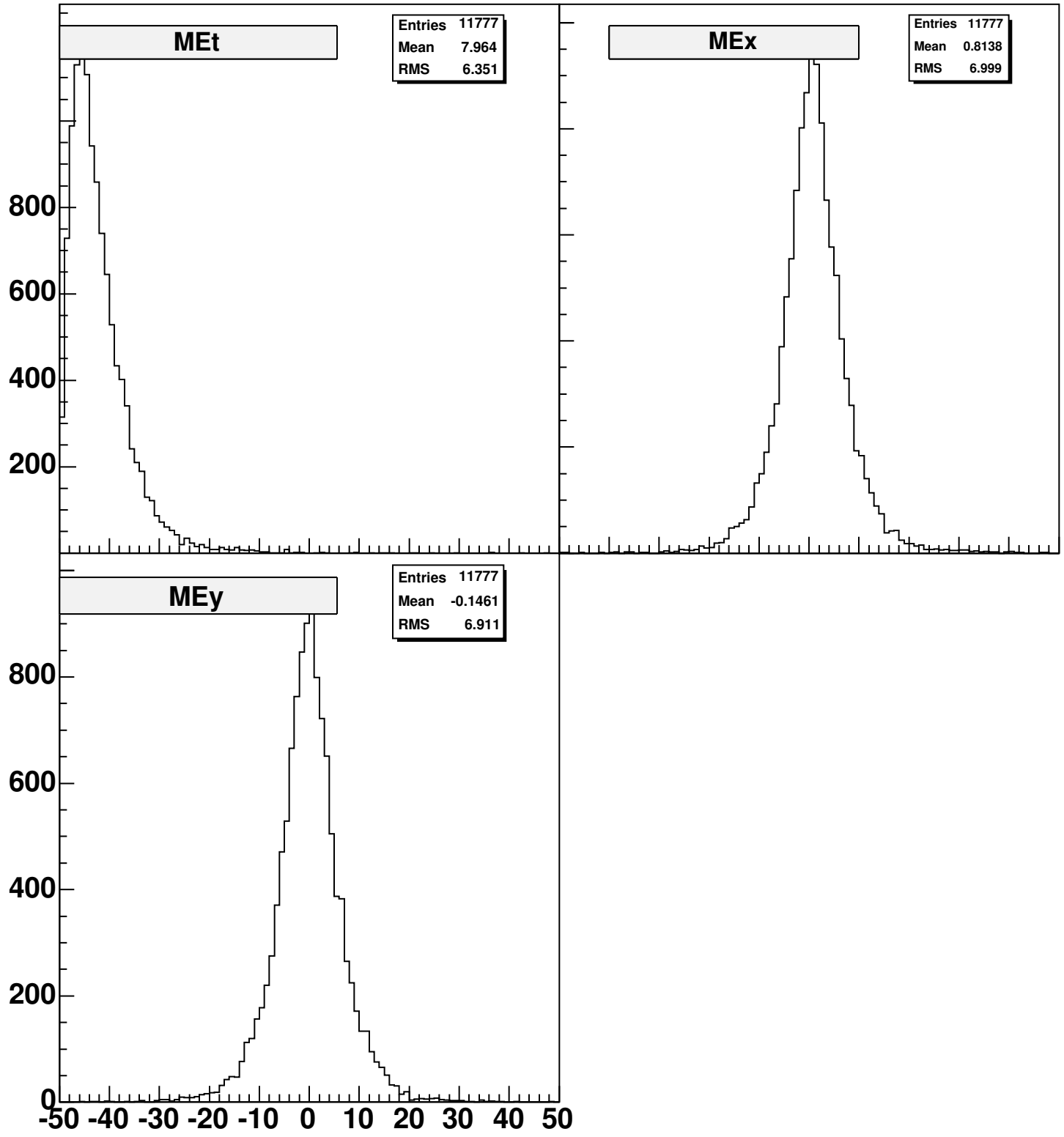
Muons (Astub)

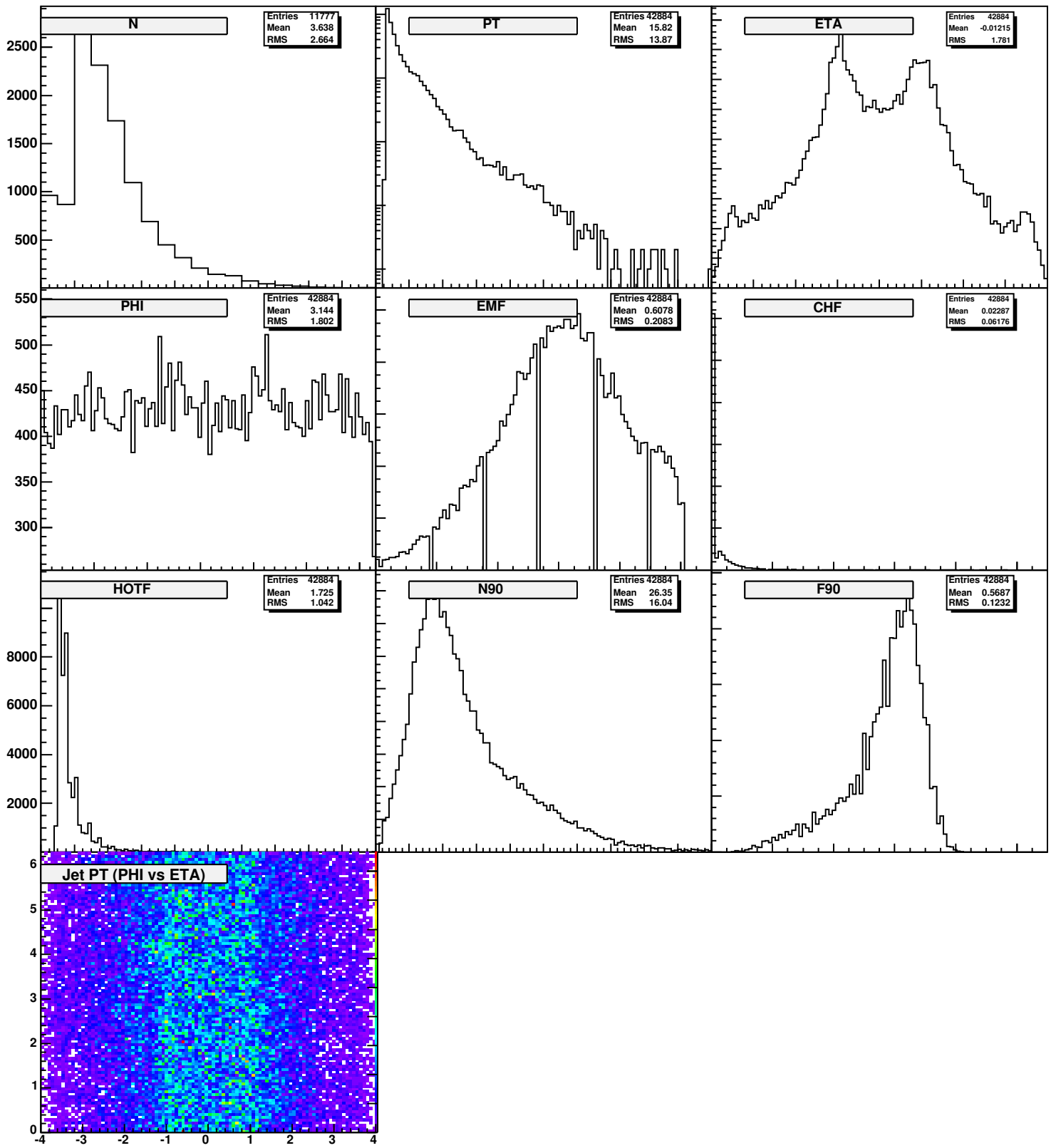


Muons (BCstub)

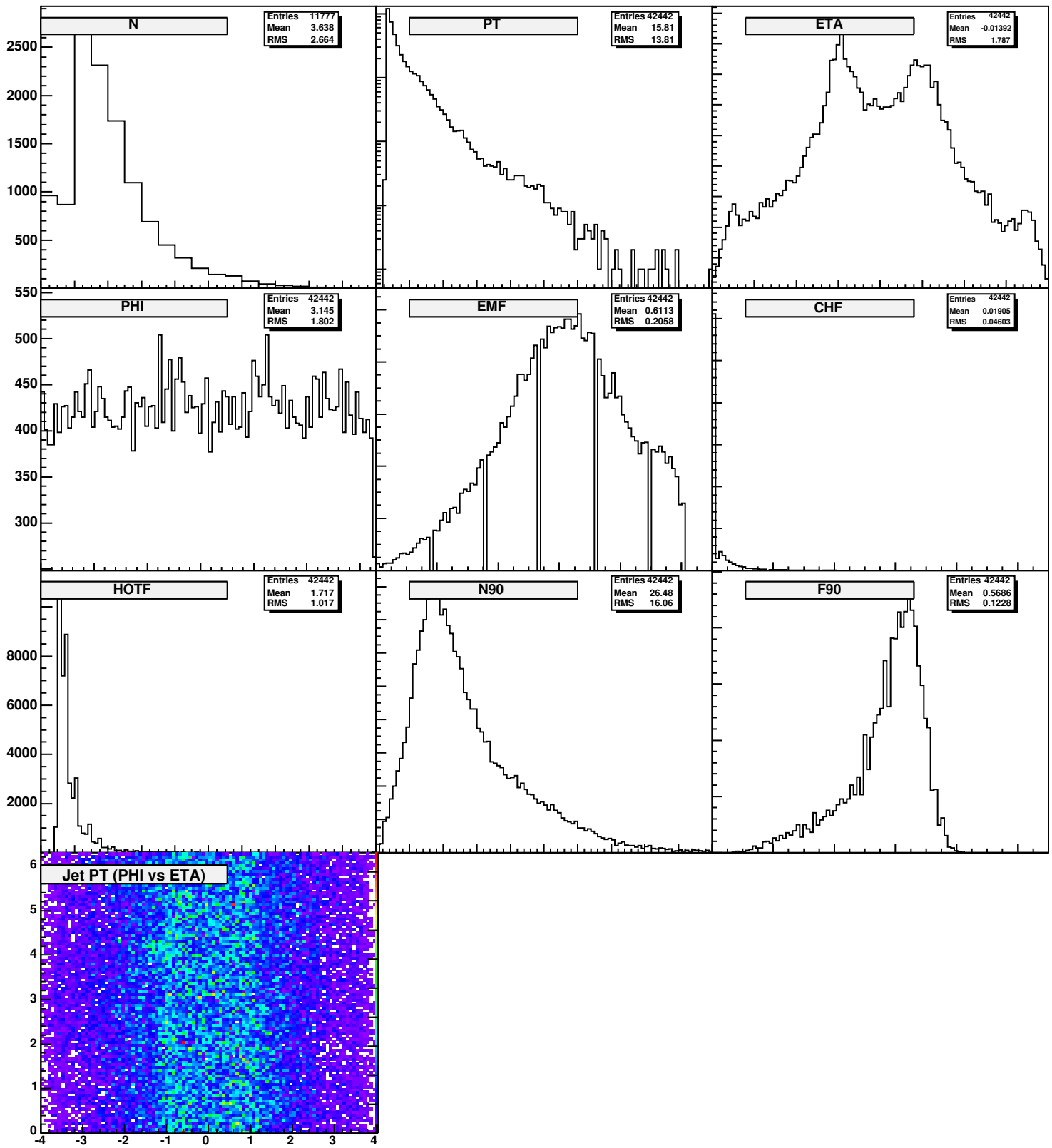


Muons (Unmatched)

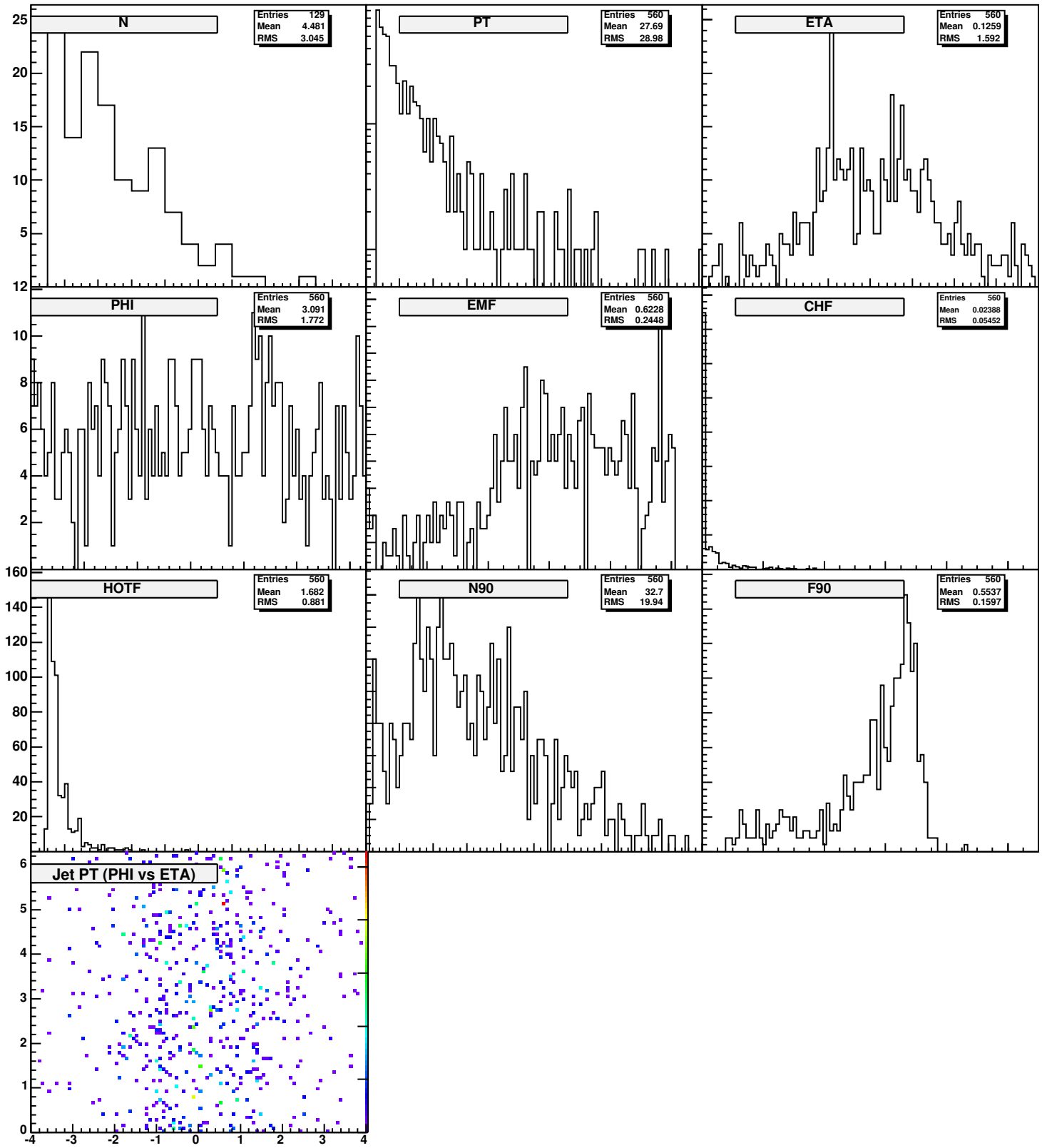

MEt
Entries 11777
Mean 7.964
RMS 6.351
MEx
Entries 11777
Mean 0.8138
RMS 6.999
MEy
Entries 11777
Mean -0.1461
RMS 6.911
800
600
400
200
0
-50 -40 -30 -20 -10 0 10 20 30 40 50
Met (No cuts)



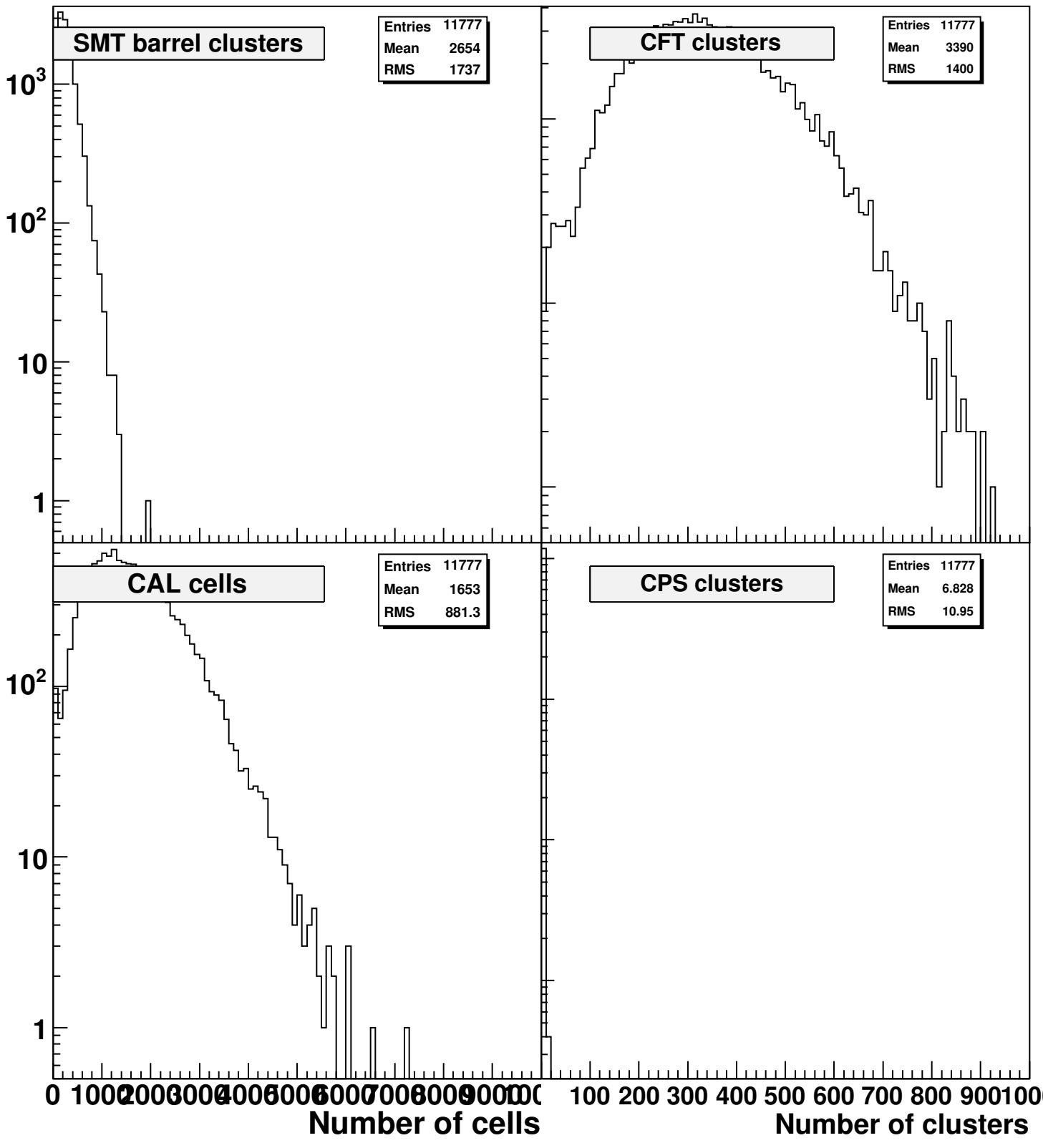
Jets (Cone R 0.7 (no cuts))

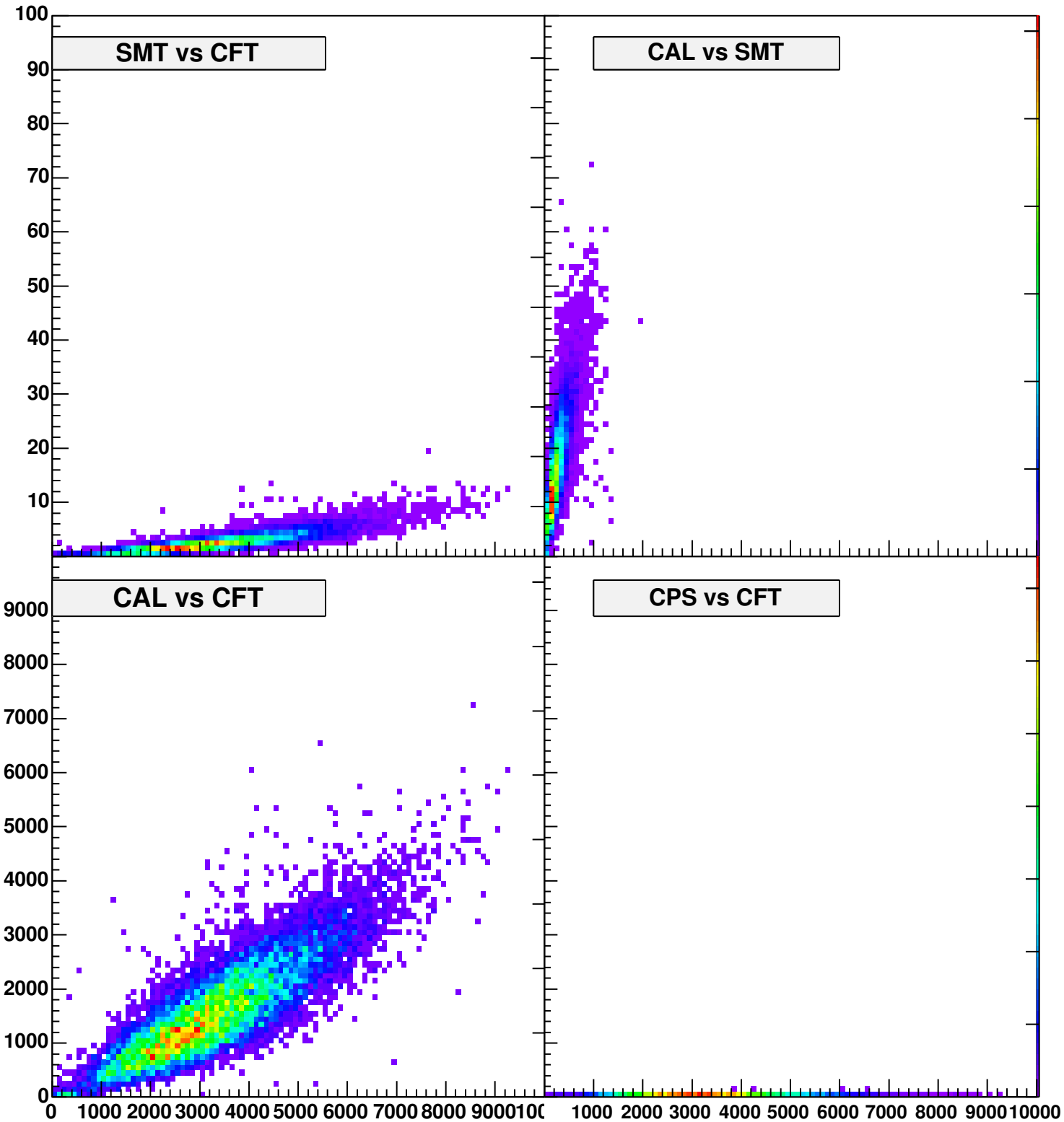


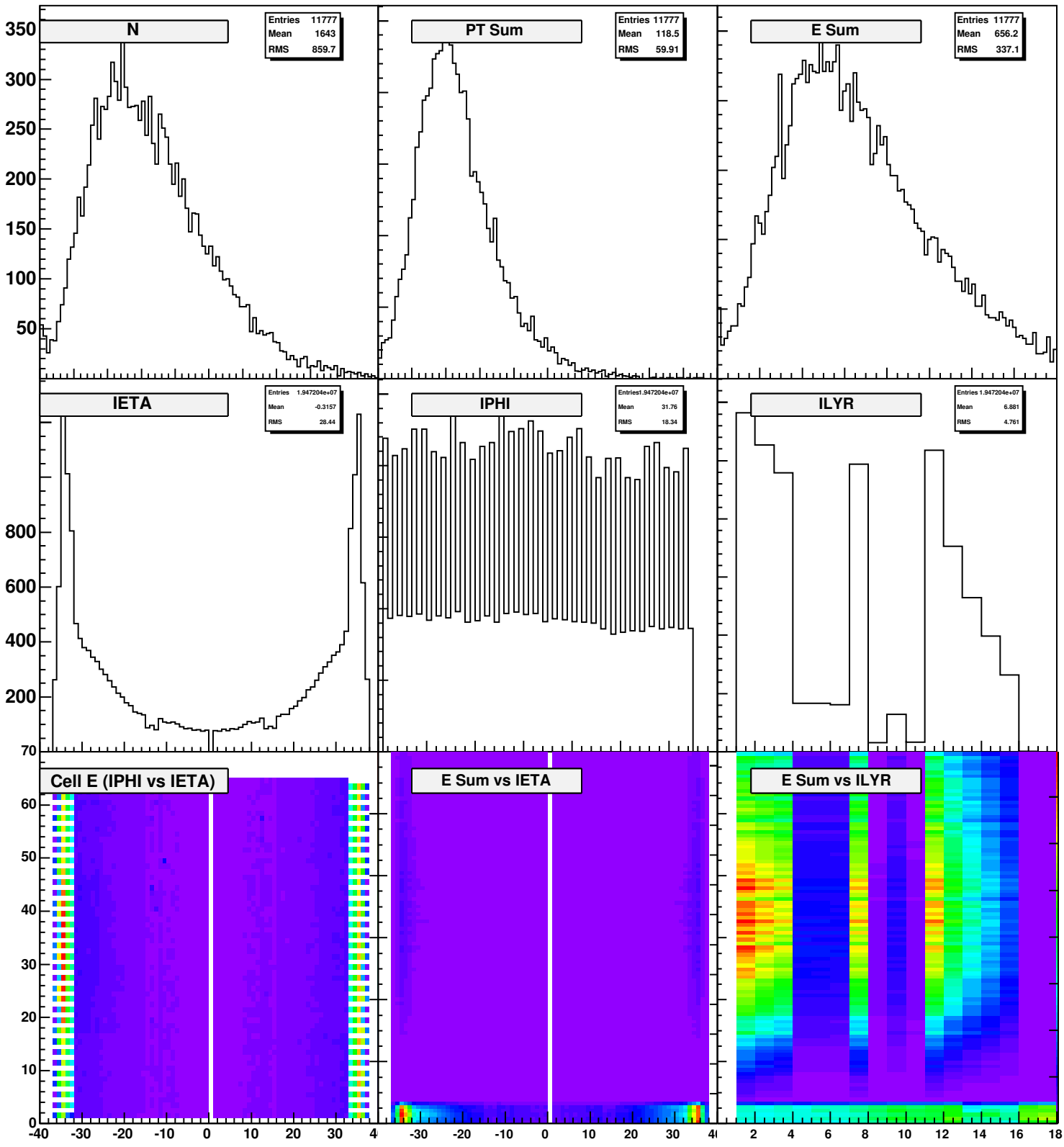
Jets (Cone R 0.7 (standard cuts))



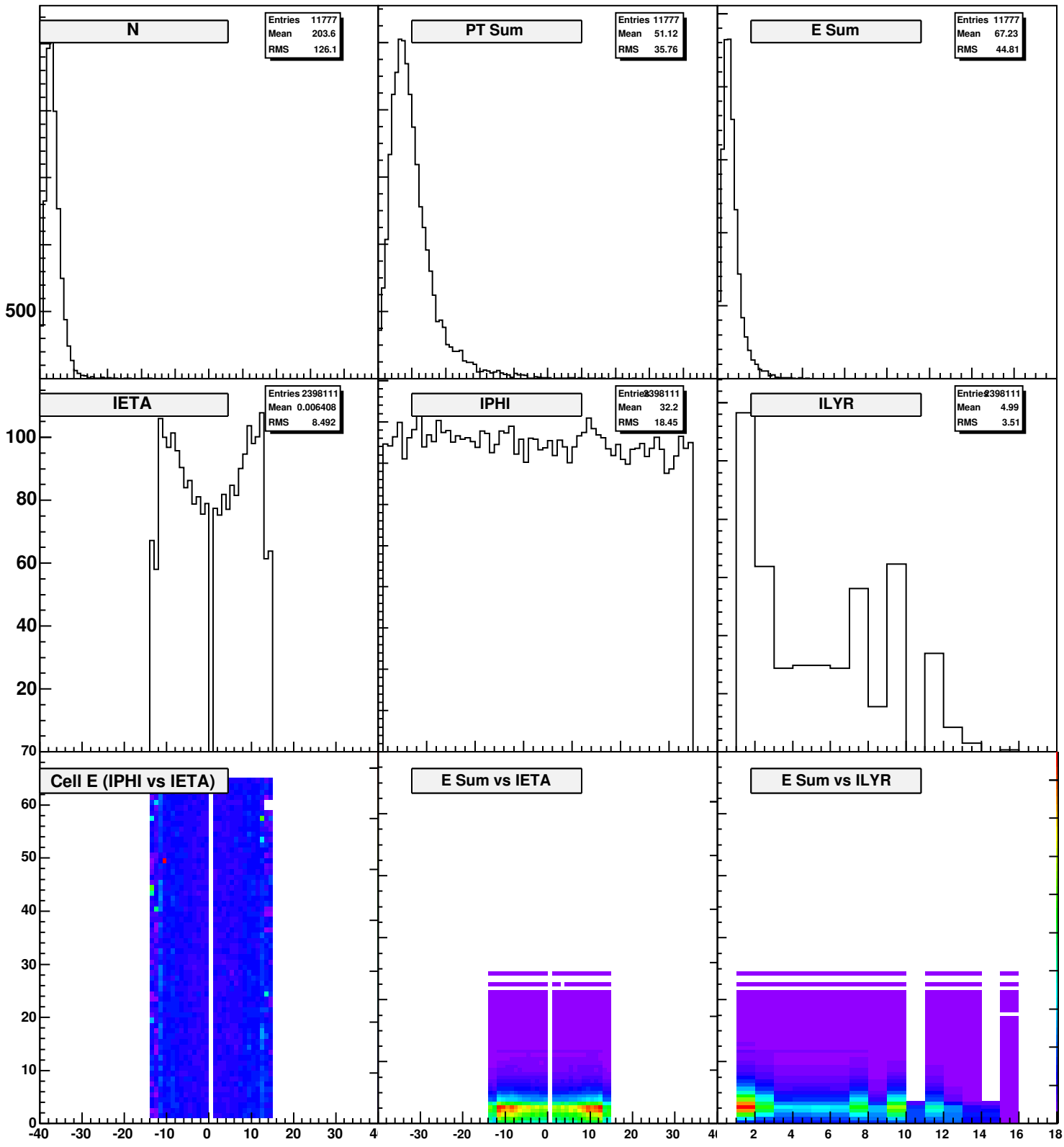
Jets (Cone R 0.7 (standard cuts, MET>30))


SMT barrel clusters
Entries 11777
Mean 2654
RMS 1737
CFT clusters
Entries 11777
Mean 3390
RMS 1400
CAL cells
Entries 11777
Mean 1653
RMS 881.3
CPS clusters
Entries 11777
Mean 6.828
RMS 10.95
10^3
10^2
10
1
10^2
10
1
0 100 200 300 400 500 600 700 800 900 1000
Number of cells
100 200 300 400 500 600 700 800 900 1000
Number of clusters
Detector Occupancy (Detector)

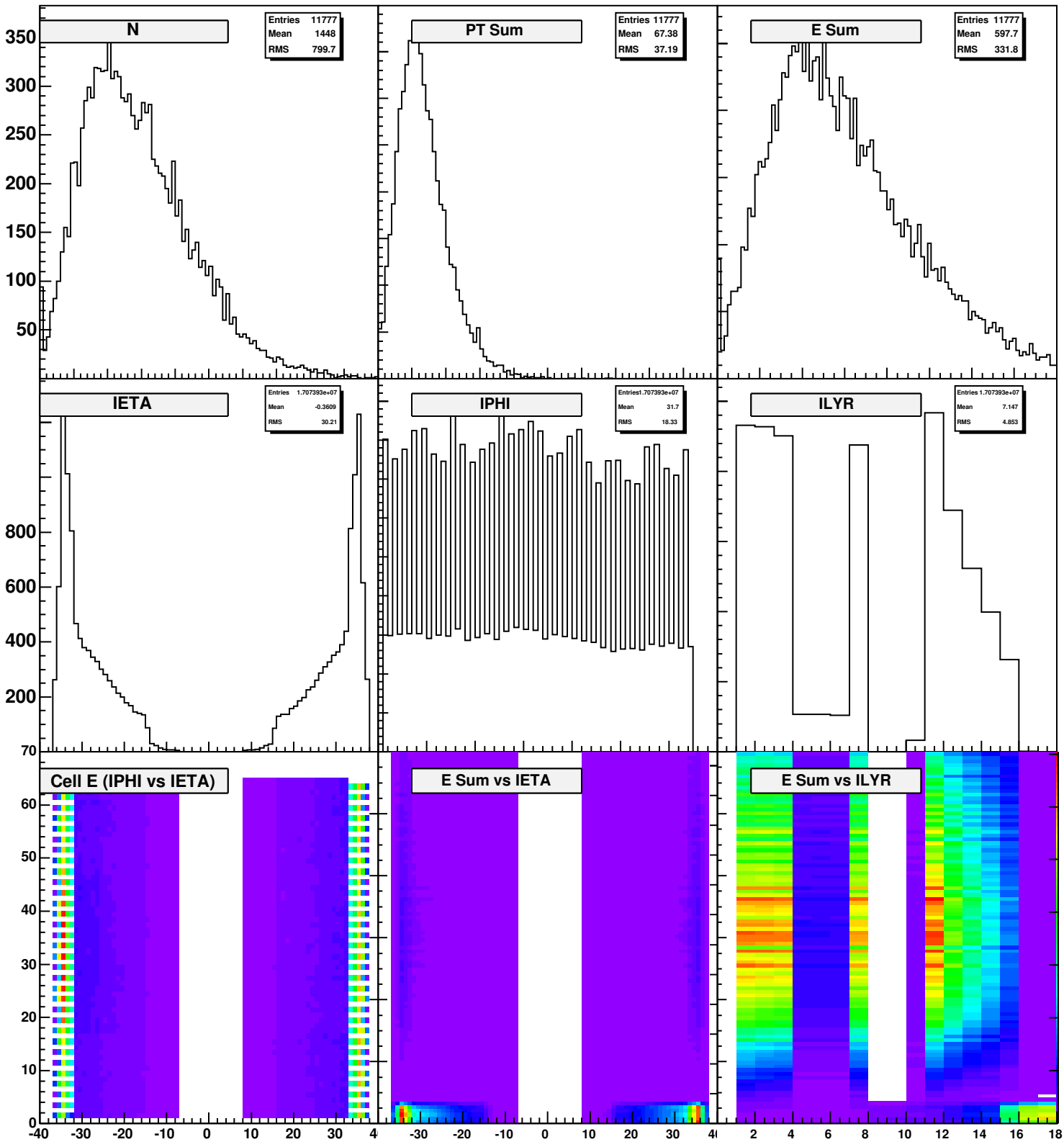

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
100
90
80
70
60
50
40
30
20
10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Detector Occupancy (Detector)



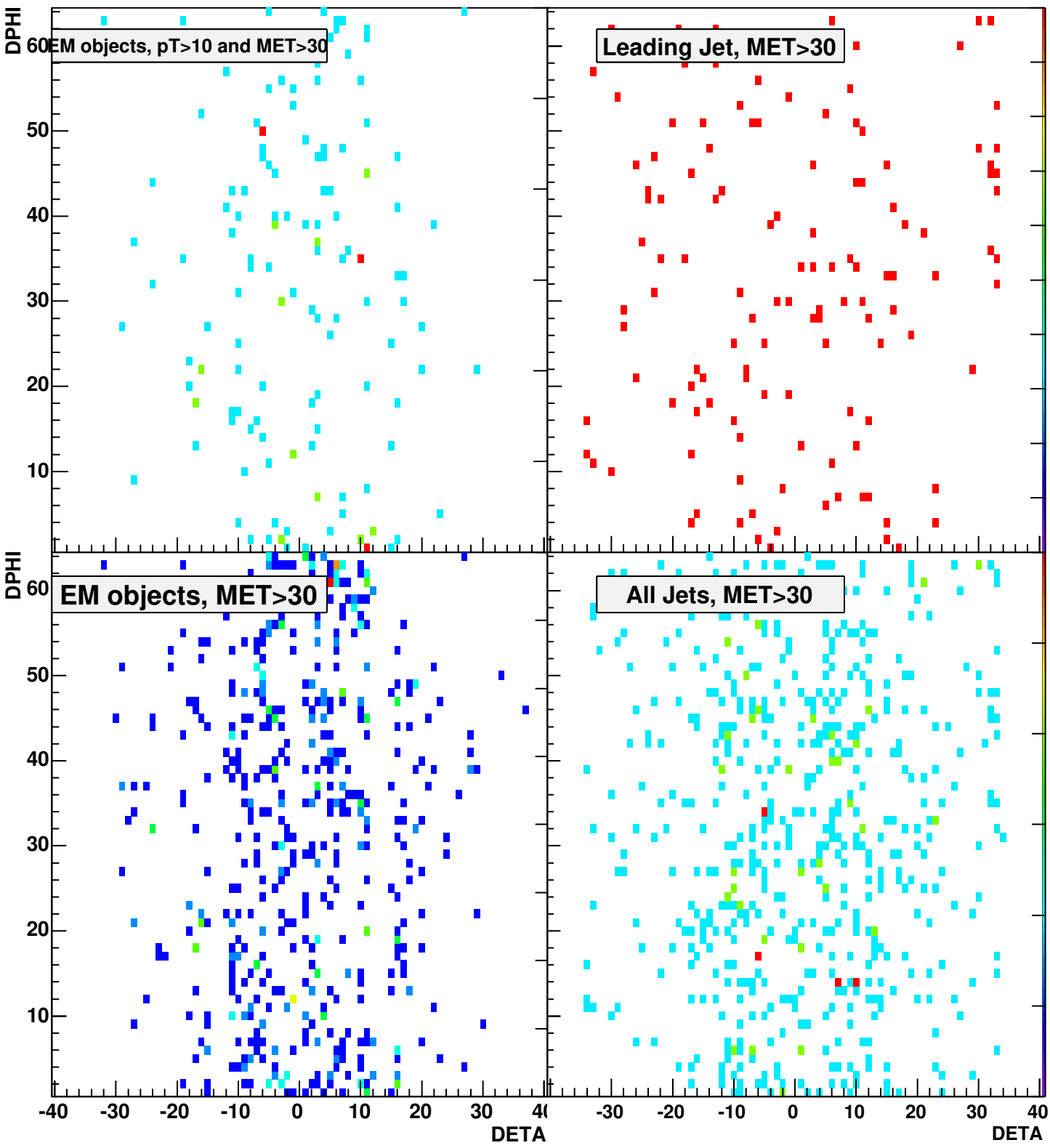
Calorimeter (All cells)



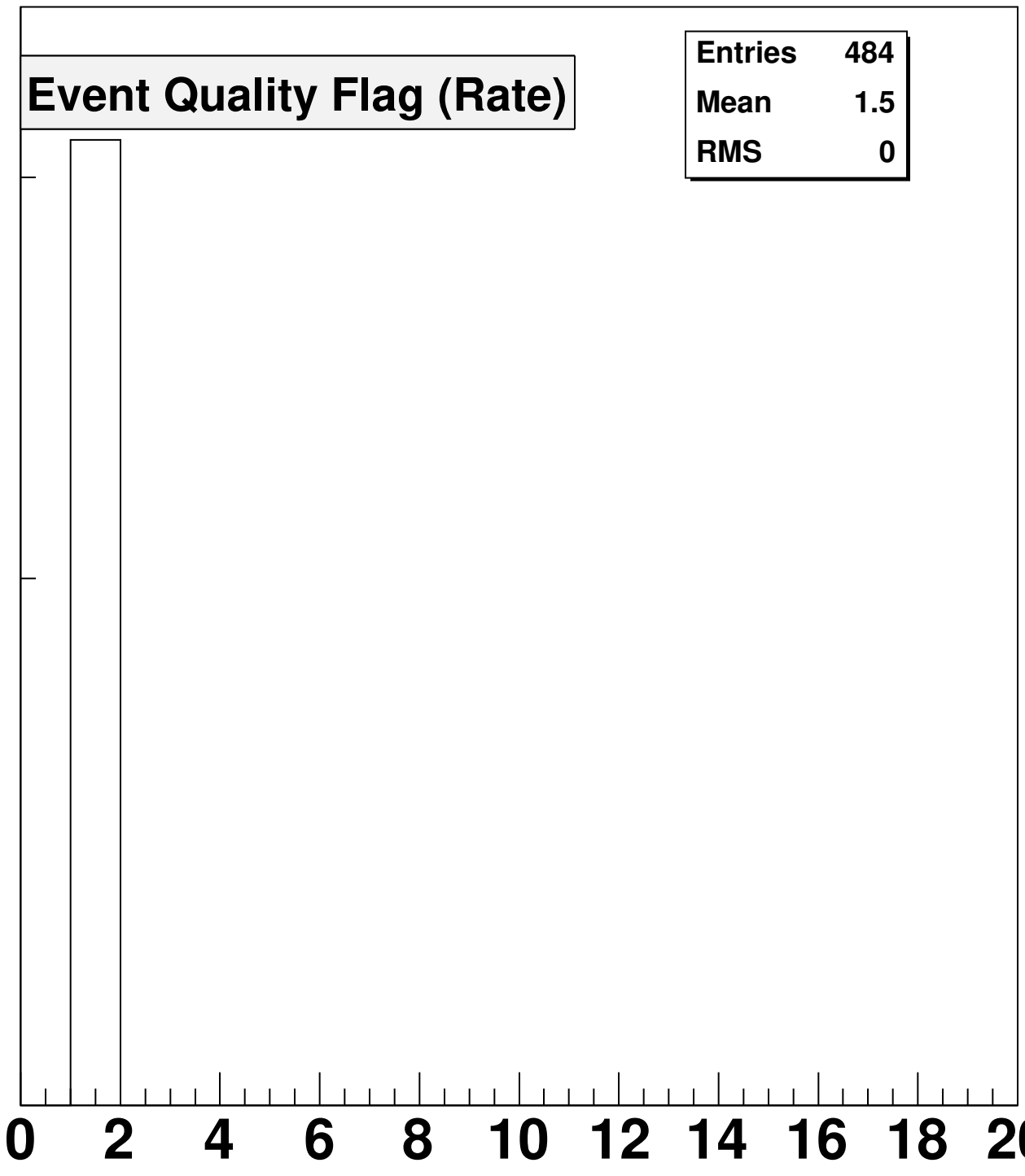
Calorimeter (All CC cells)

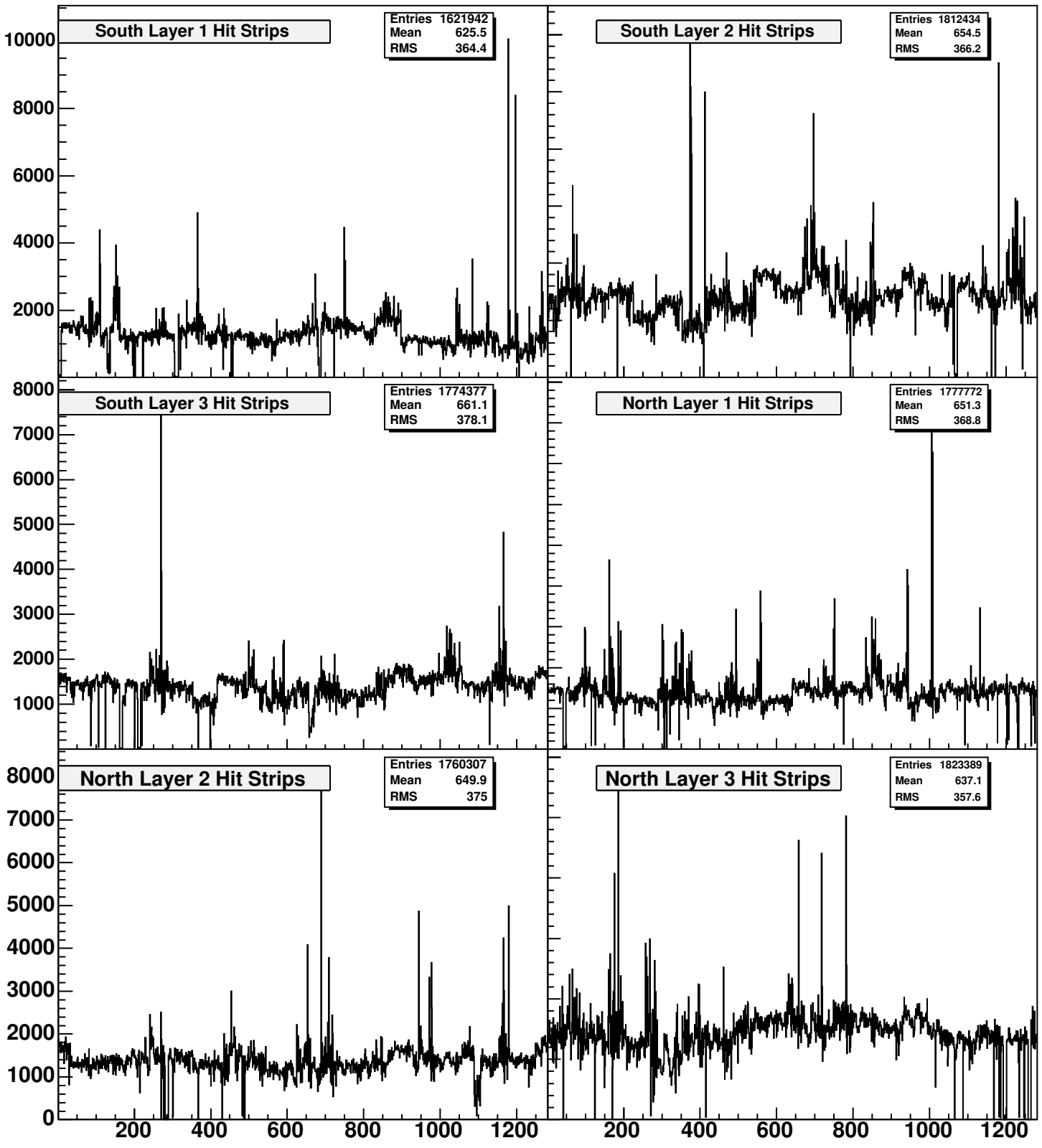


Calorimeter (All EC cells)

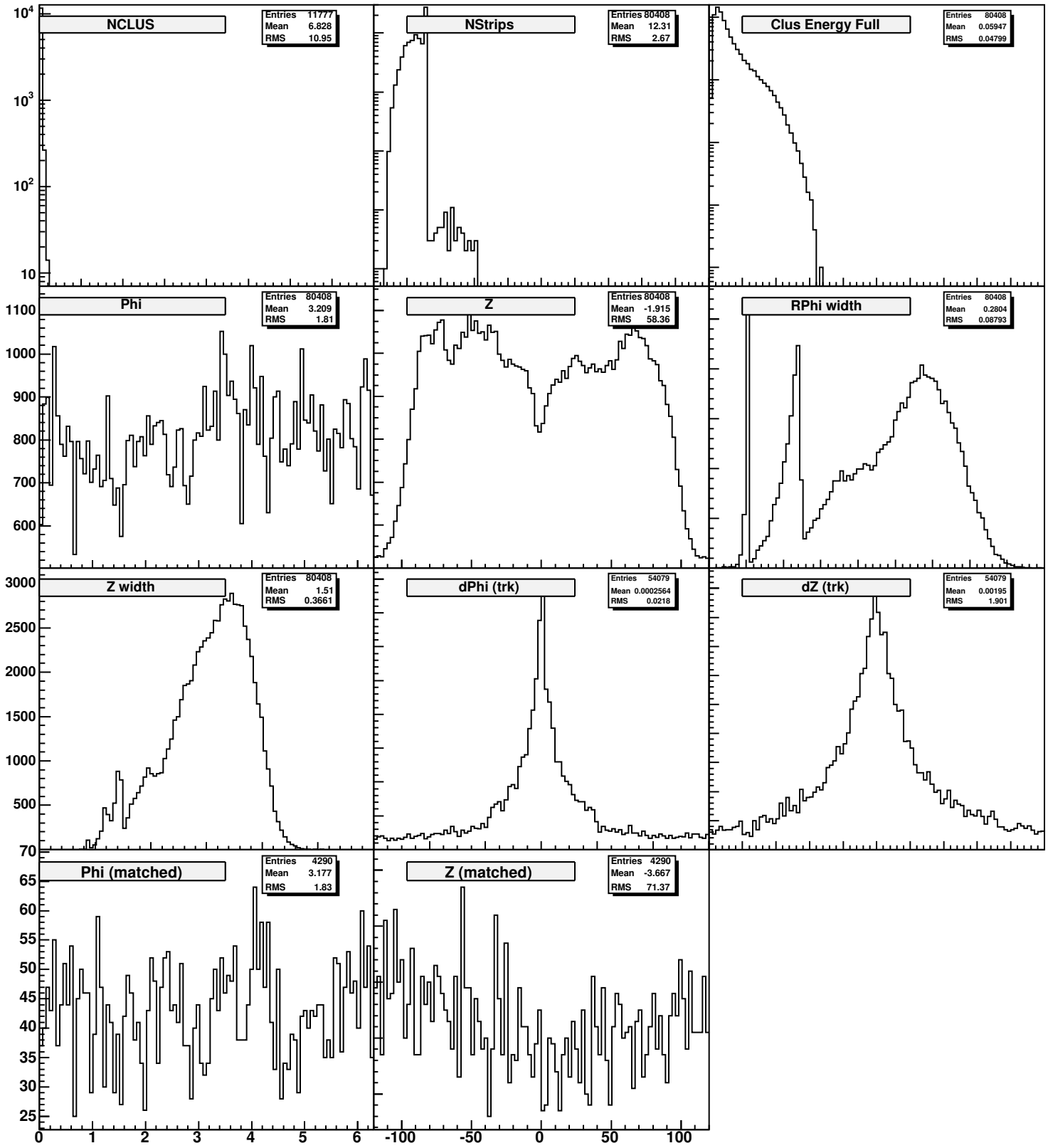


Cal Objects with MET>30 (All cells)

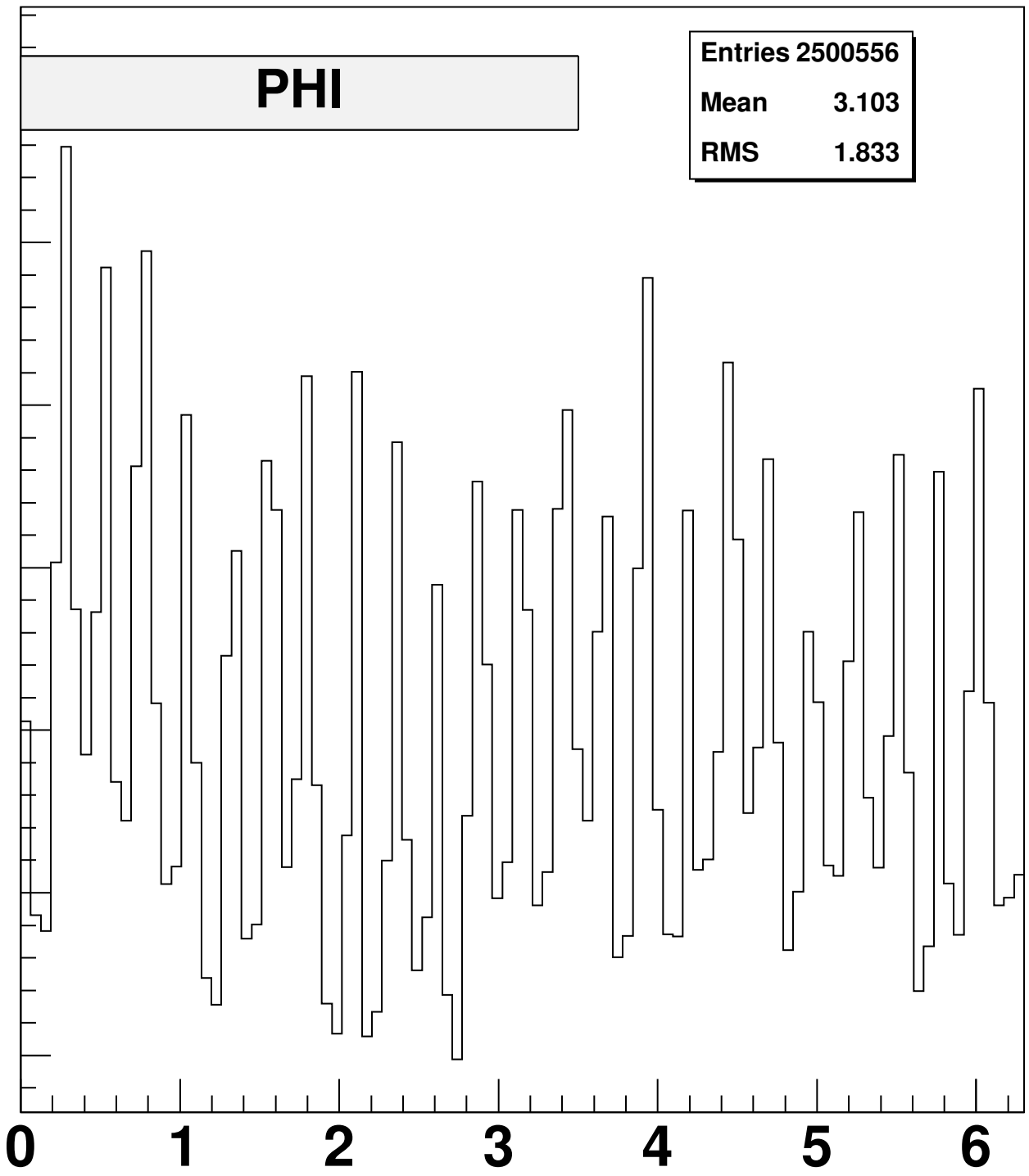

Event Quality Flag (Rate)
Entries 484
Mean 1.5
RMS 0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

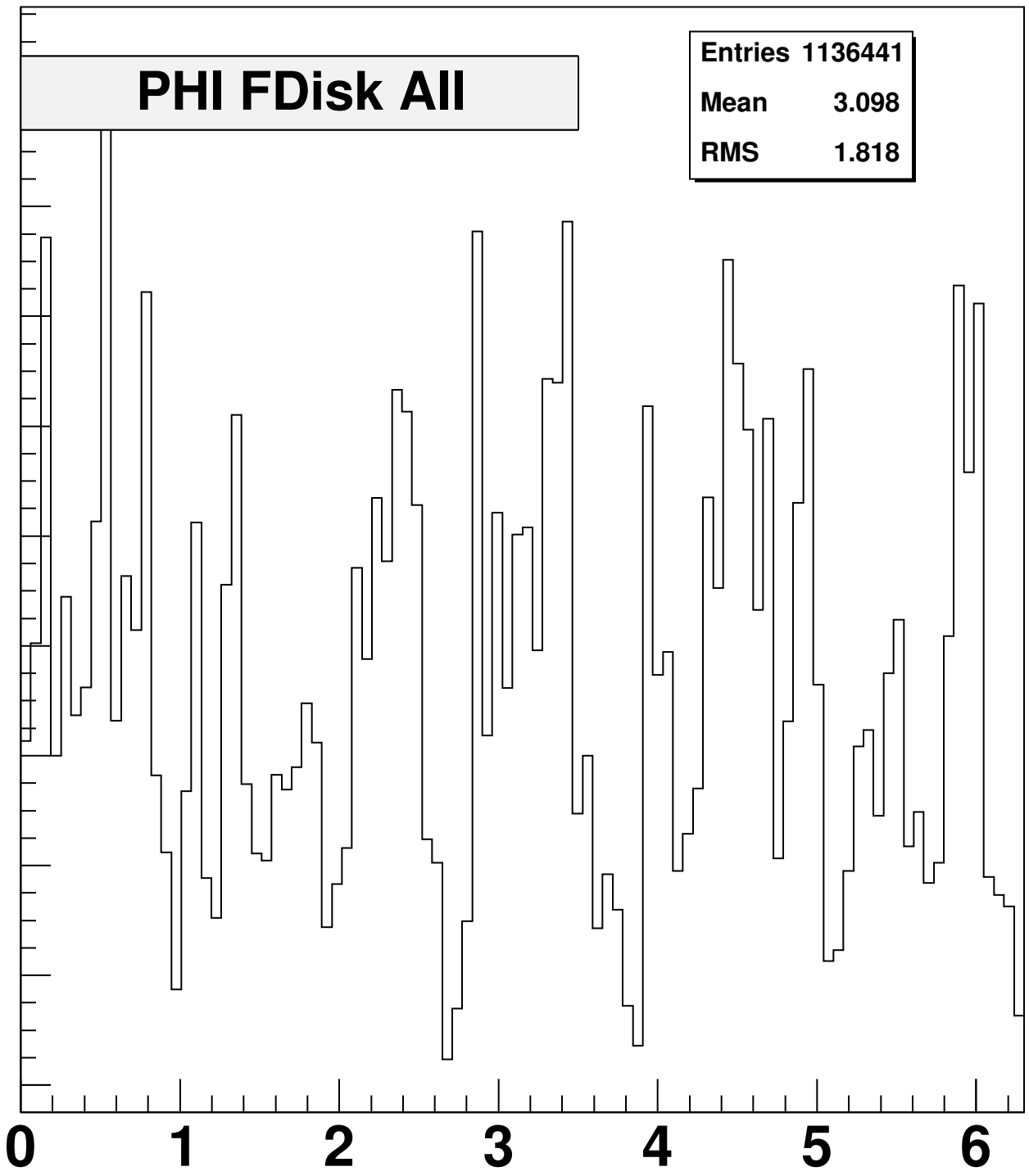


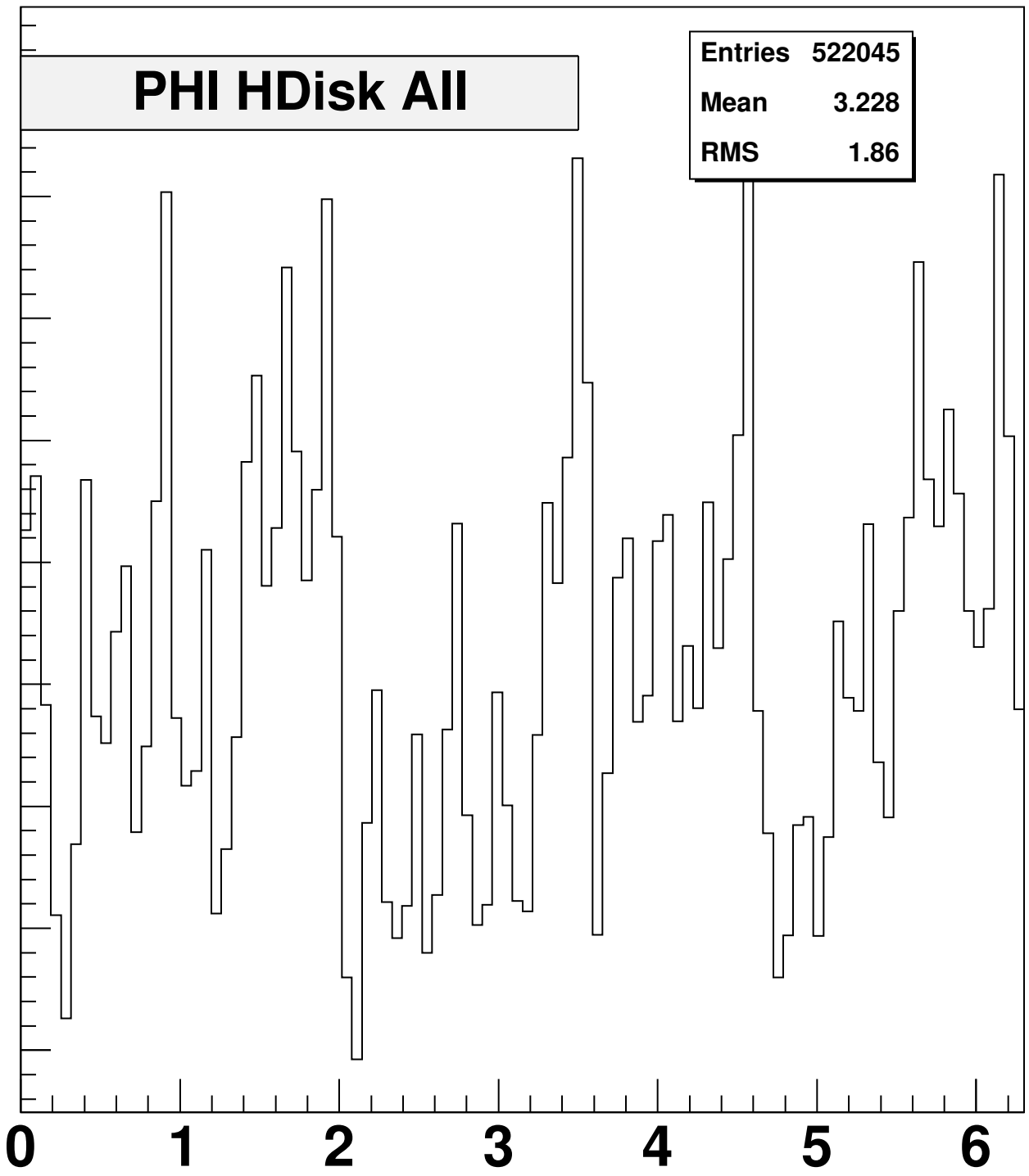
CPS Hit Strips (All Clusters)

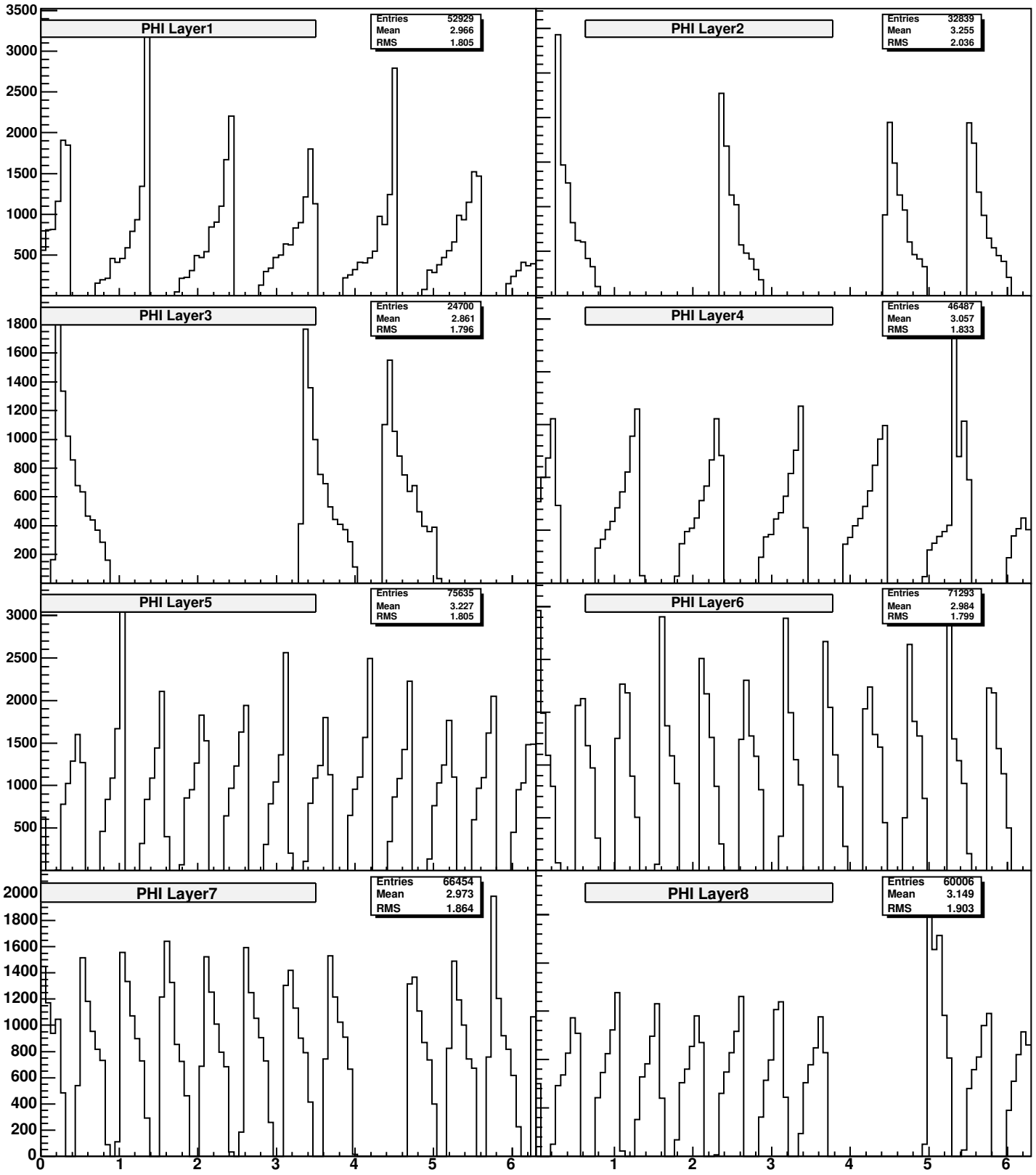


CPS Clusters (All Clusters)

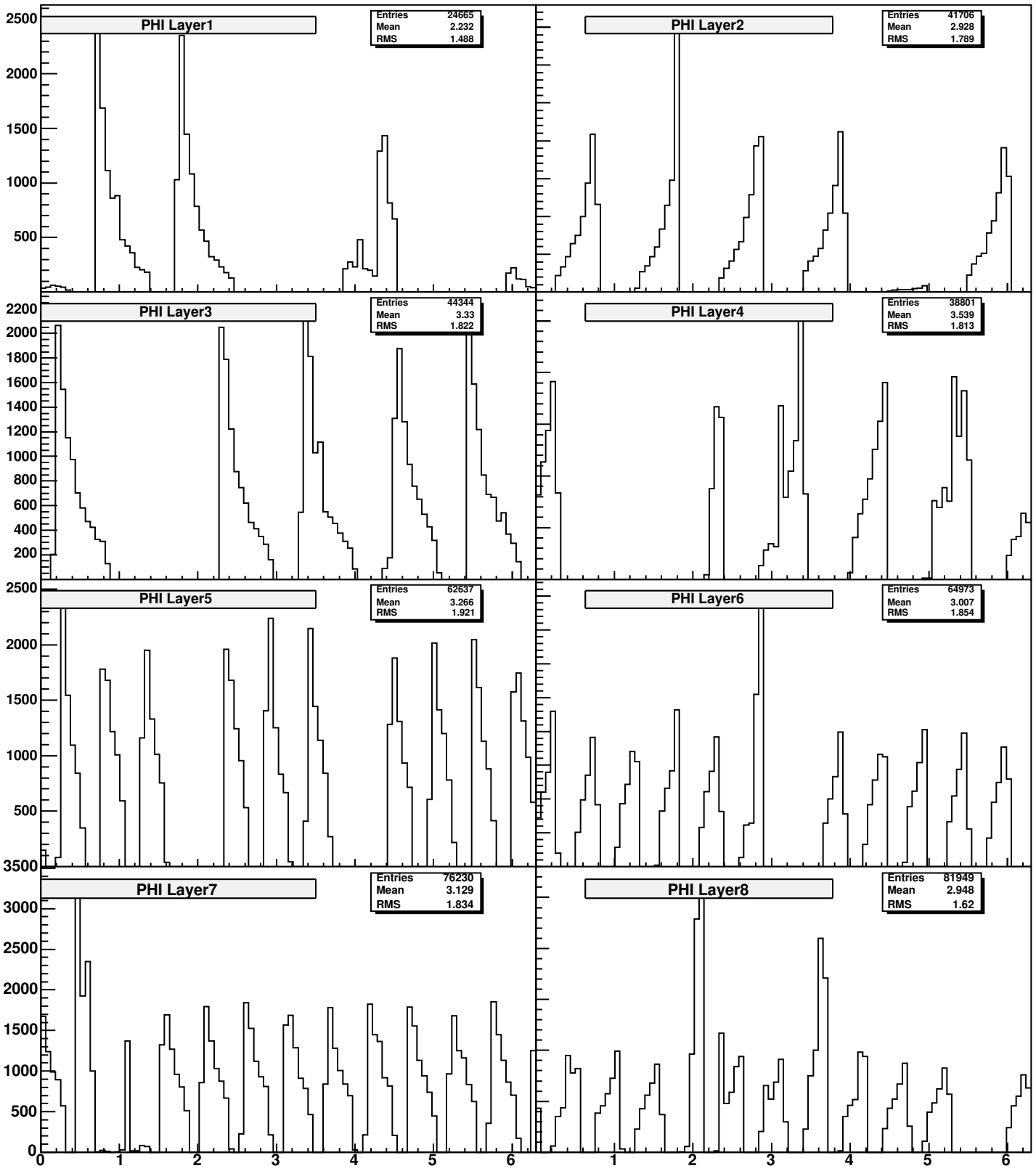

PHI
Entries 2500556
Mean 3.103
RMS 1.833
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 1136441
Mean 3.098
RMS 1.818
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

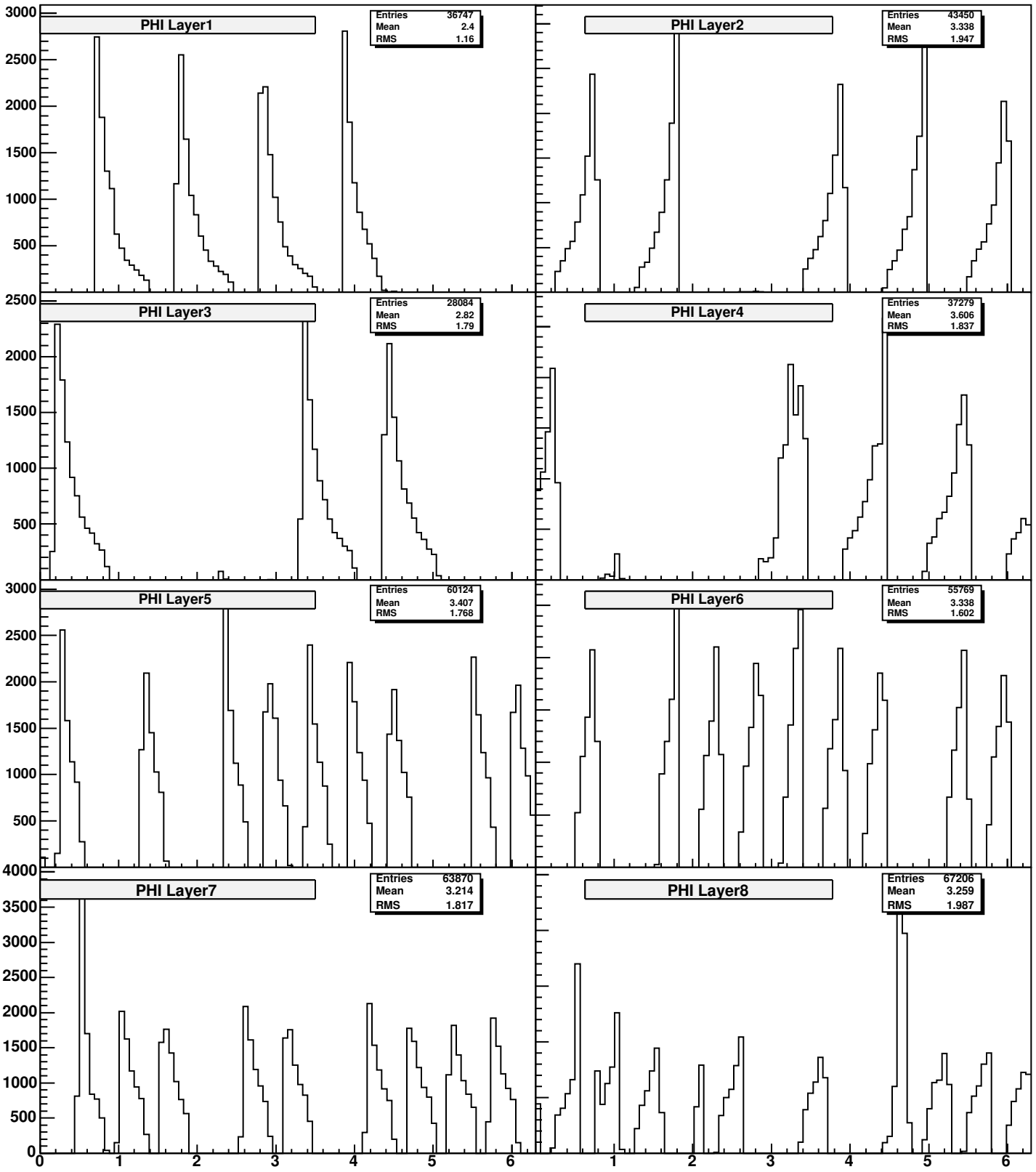

PHI HDisk All
Entries 522045
Mean 3.228
RMS 1.86
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



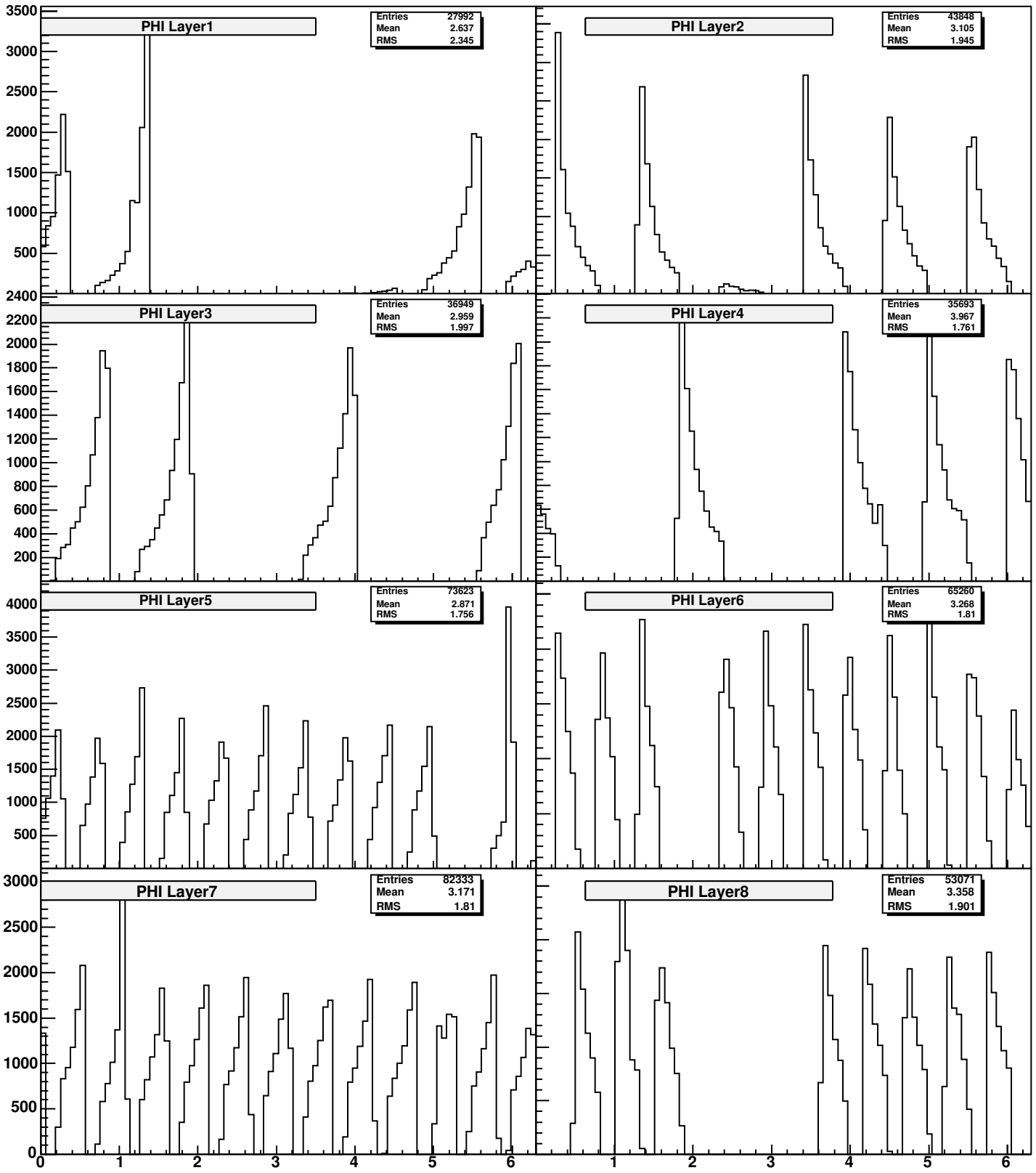
SmtClusters (ClustrBar1)



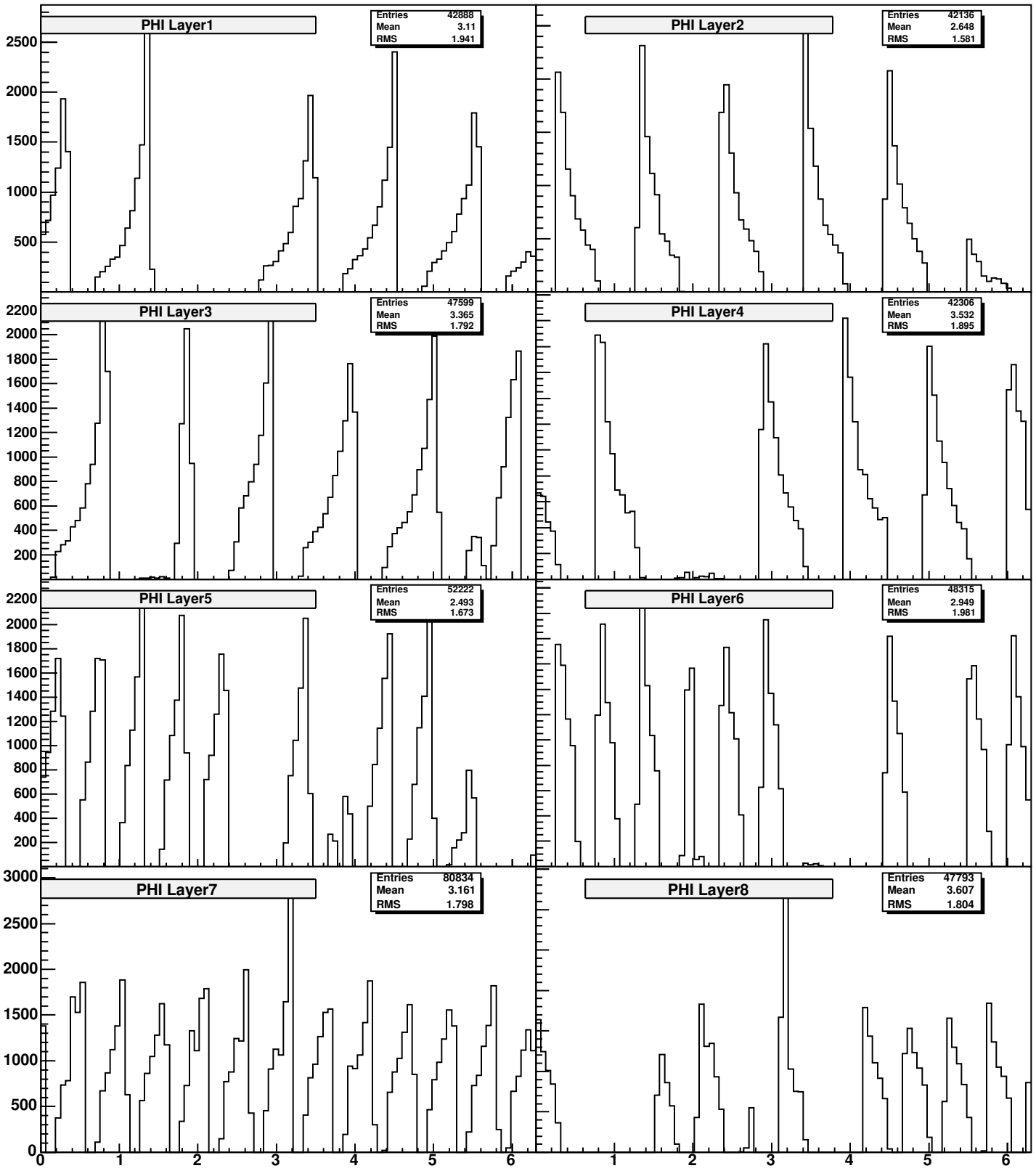
SmtClusters (ClustrBar2)



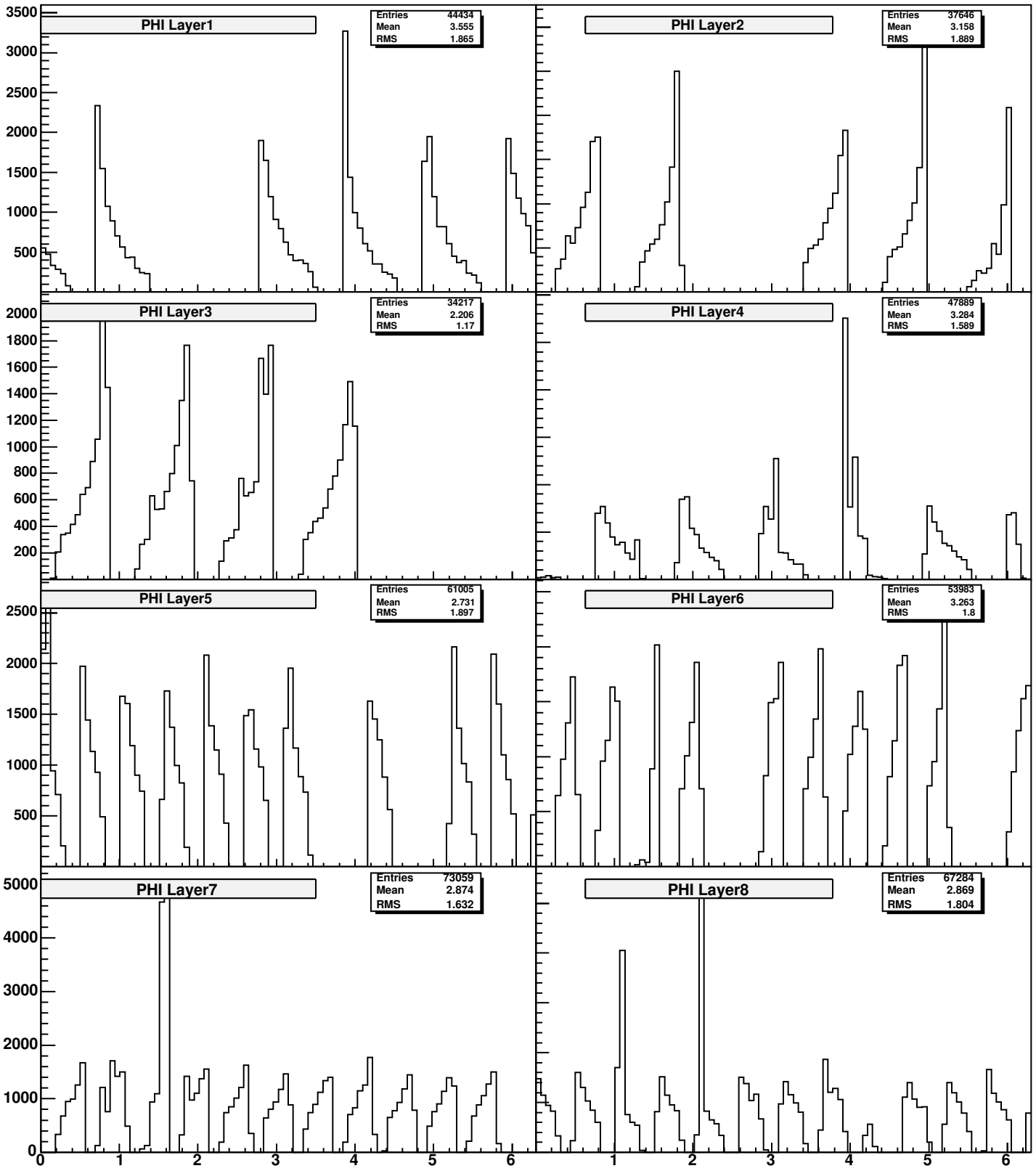
SmtClusters (ClustrBar3)



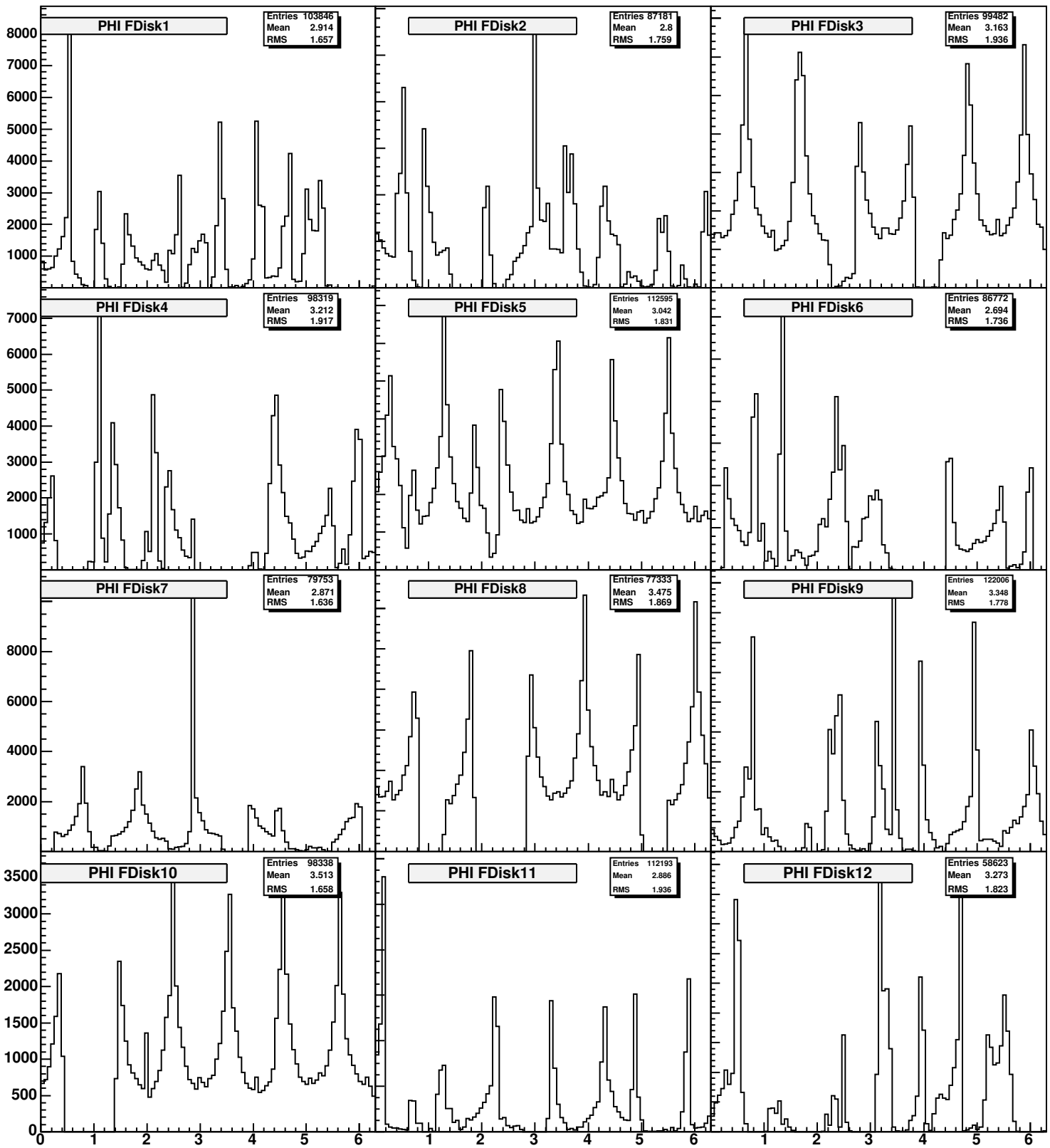
SmtClusters (ClustrBar4)



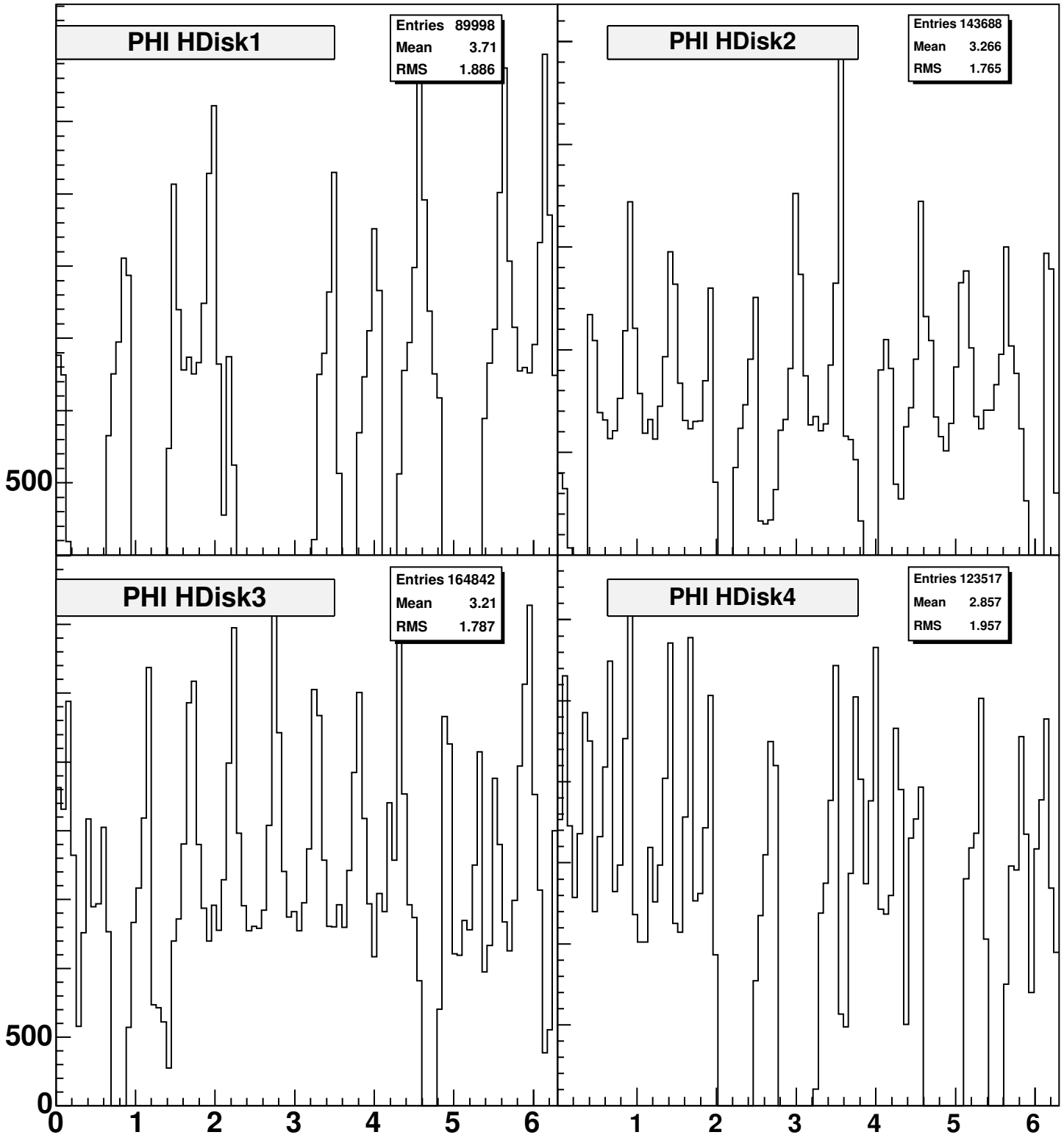
SmtClusters (ClustrBar5)

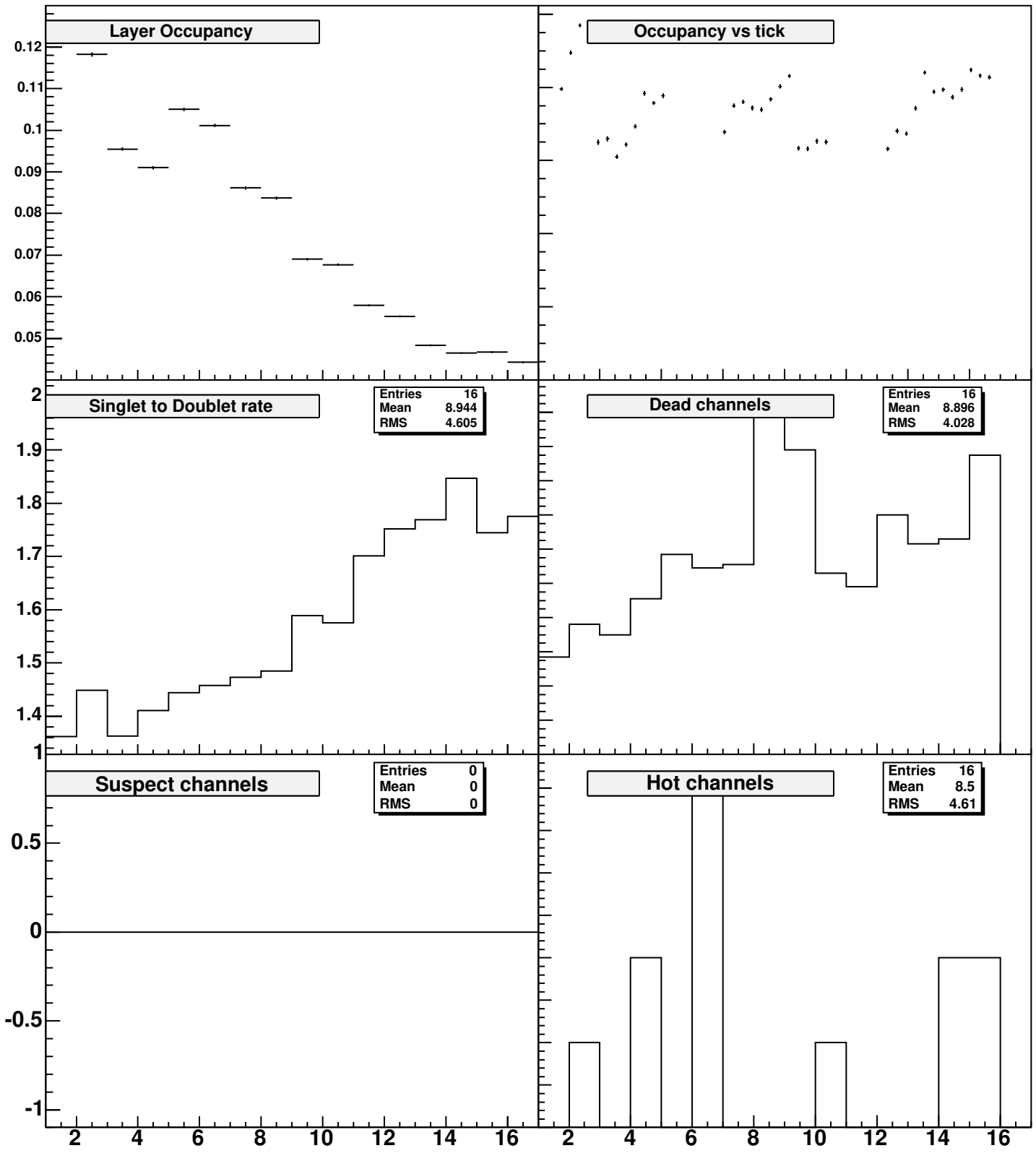


SmtClusters (ClustrBar6)

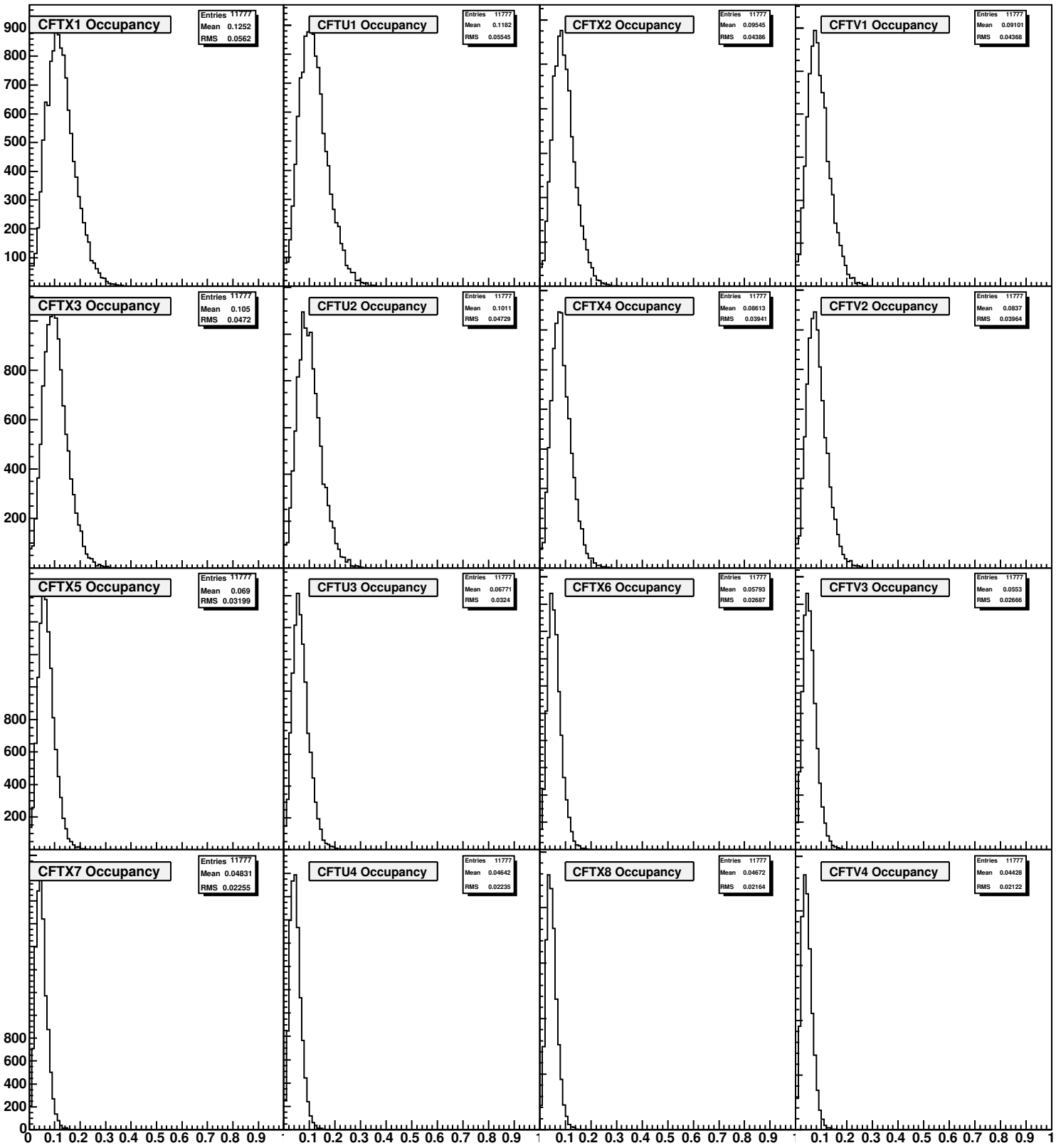


SmtClusters (FDiskClusters)

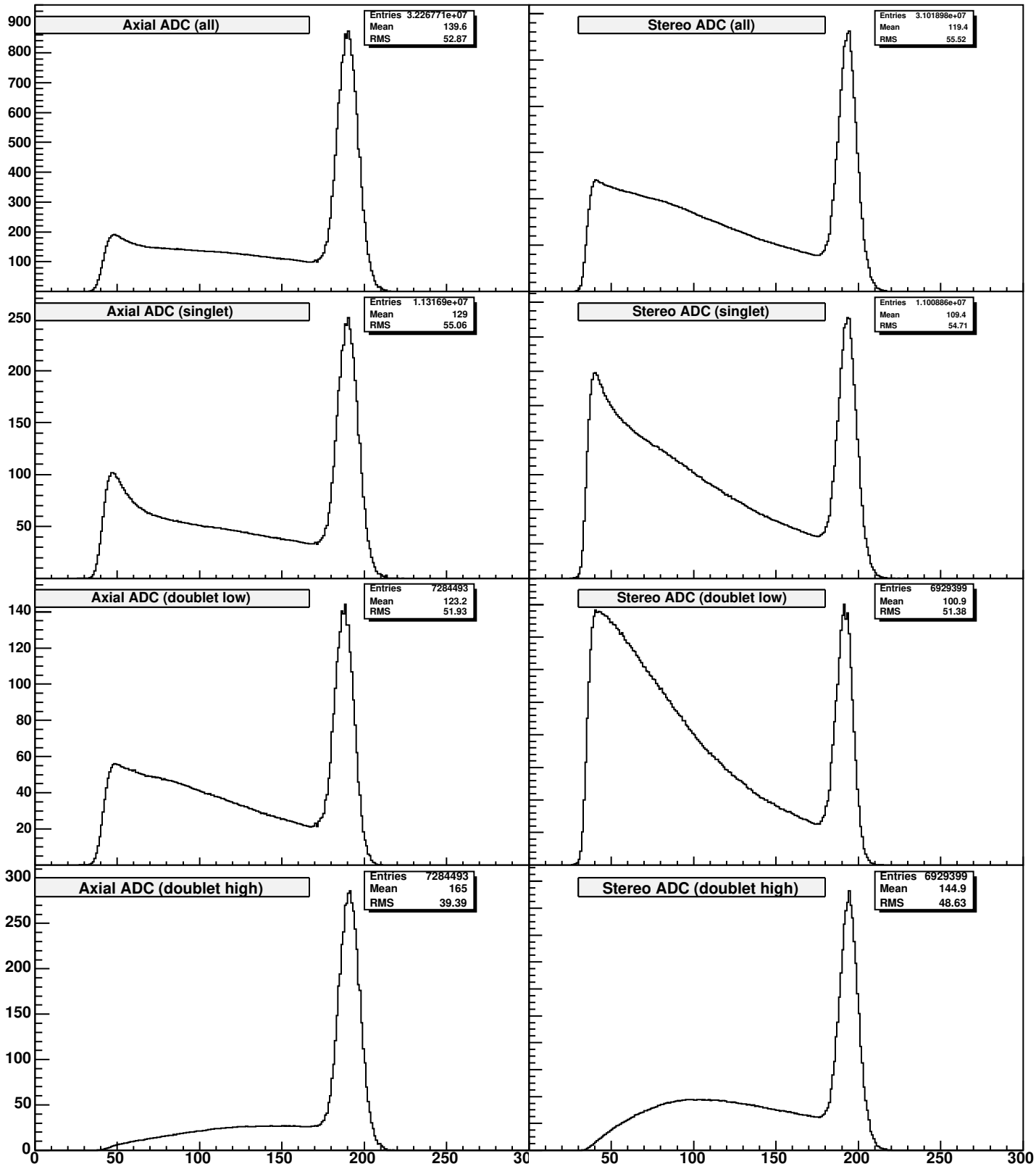

PHI HDisk1
Entries 89998
Mean 3.71
RMS 1.886
PHI HDisk2
Entries 143688
Mean 3.266
RMS 1.765
PHI HDisk3
Entries 164842
Mean 3.21
RMS 1.787
PHI HDisk4
Entries 123517
Mean 2.857
RMS 1.957
500
500
0
0
1
2
3
4
5
6
1
2
3
4
5
6
SmtClusters (HDiskClusters)



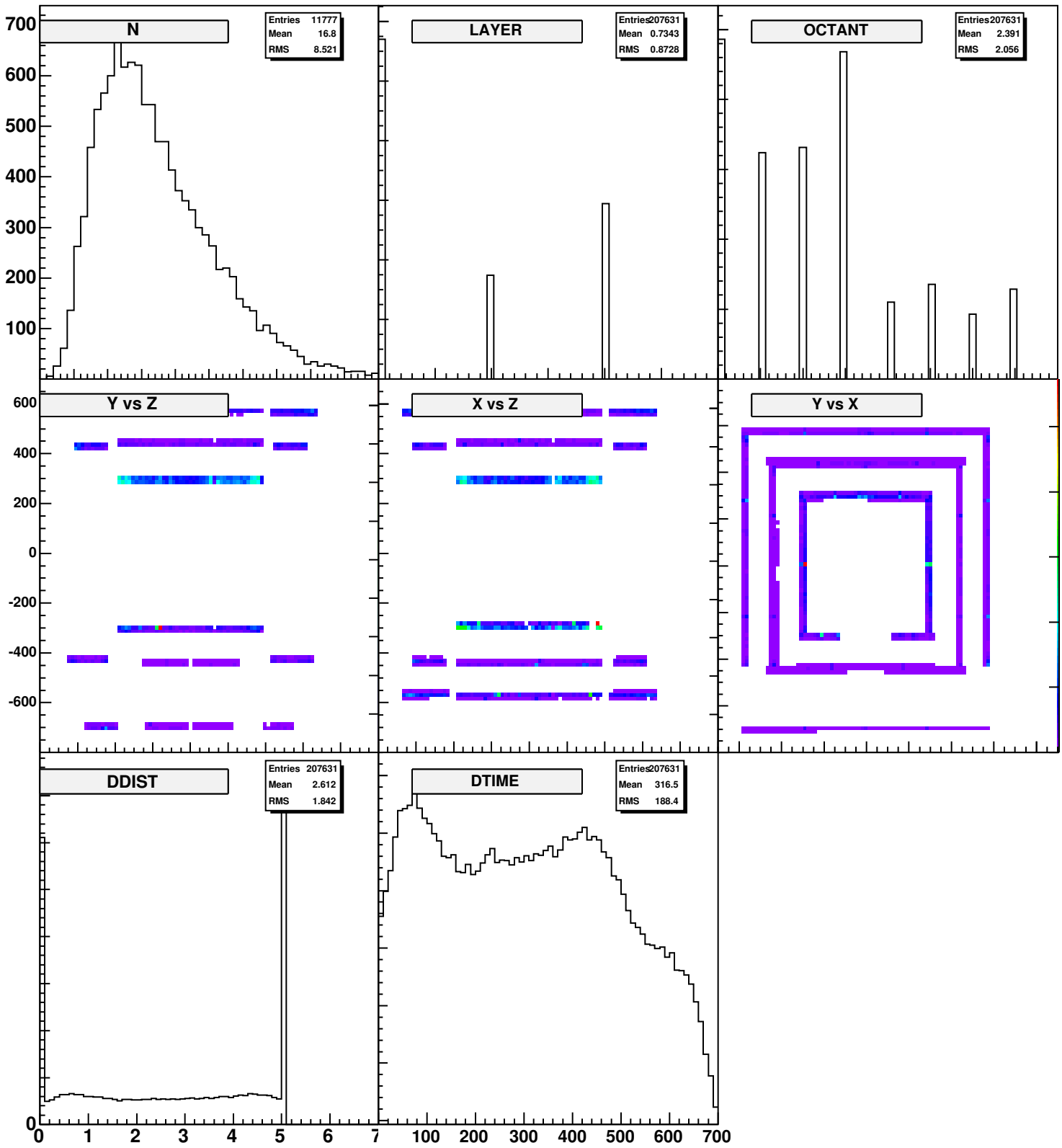
CFT Summary (All Clusters)



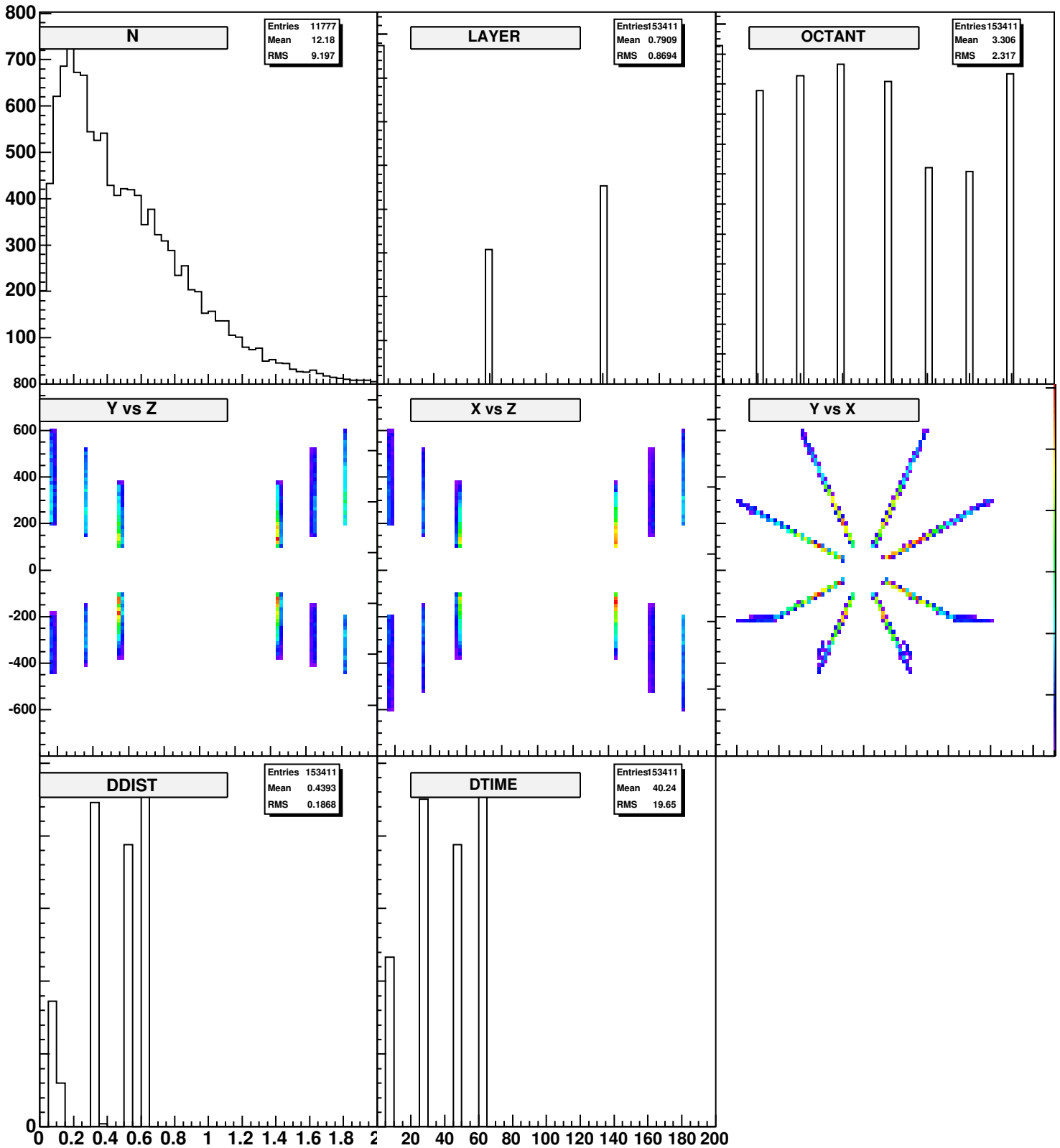
CFT Occupancy (All Clusters)



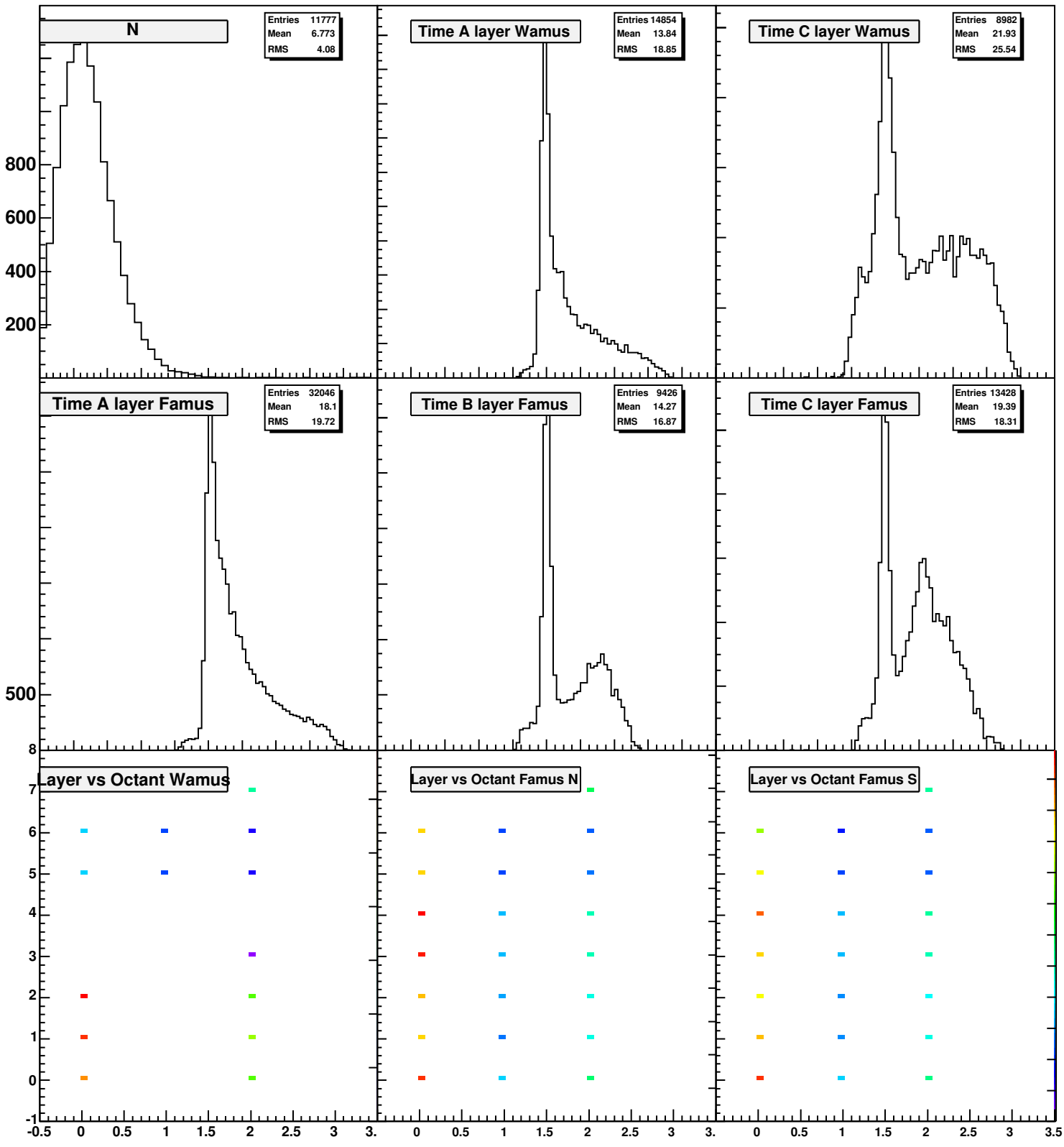
CFT ADC Summary (All Clusters)


N
Entries 11777
Mean 16.8
RMS 8.521
LAYER
Entries 207631
Mean 0.7343
RMS 0.8728
OCTANT
Entries 207631
Mean 2.391
RMS 2.056
Y vs Z
X vs Z
Y vs X
DDIST
Entries 207631
Mean 2.612
RMS 1.842
DTIME
Entries 207631
Mean 316.5
RMS 188.4

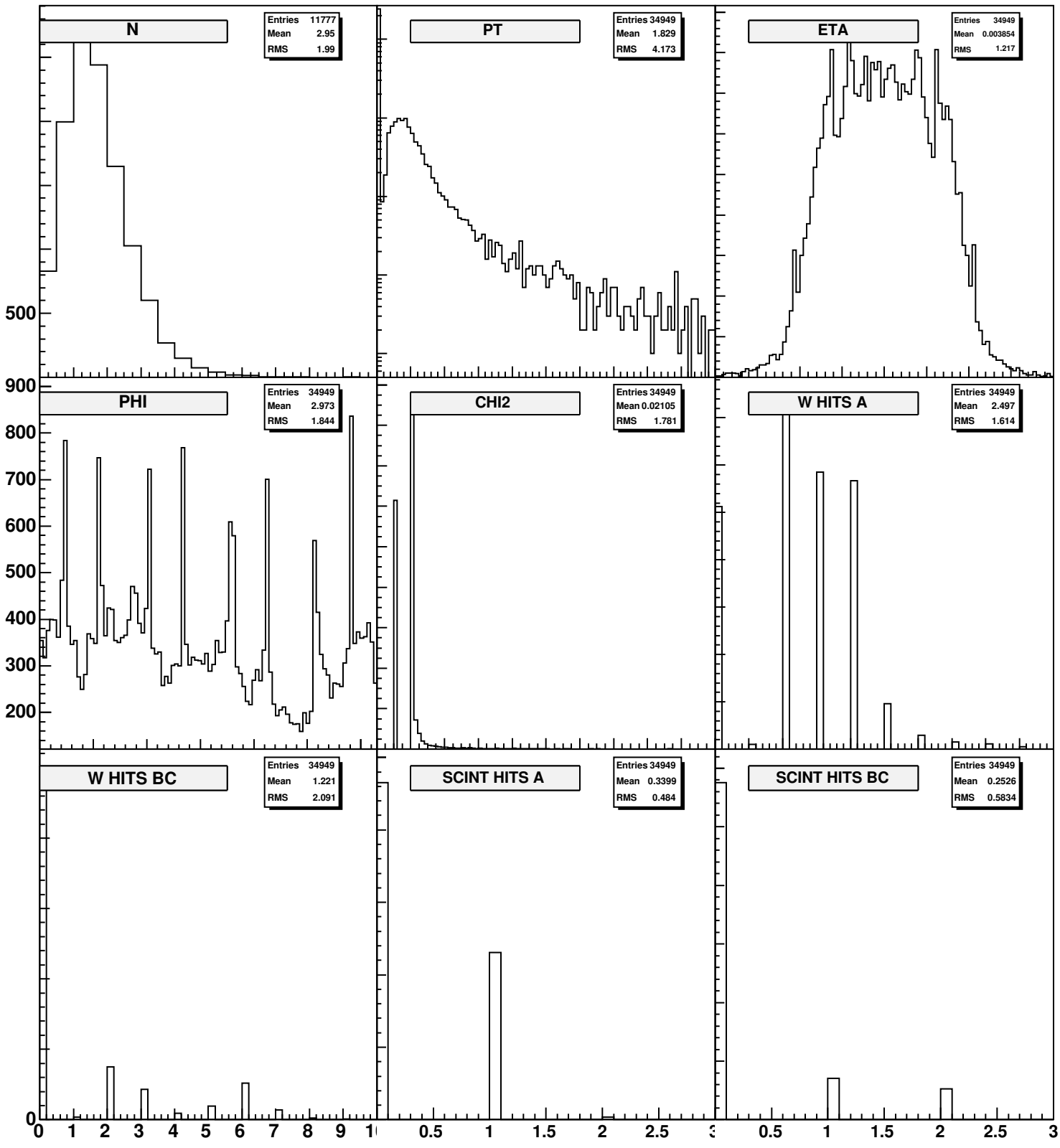
MuonPDT (All)


N
Entries 11777
Mean 12.18
RMS 9.197
LAYER
Entries 153411
Mean 0.7909
RMS 0.8694
OCTANT
Entries 153411
Mean 3.306
RMS 2.317
Y vs Z
X vs Z
Y vs X
DDIST
Entries 153411
Mean 0.4393
RMS 0.1868
DTIME
Entries 153411
Mean 40.24
RMS 19.65

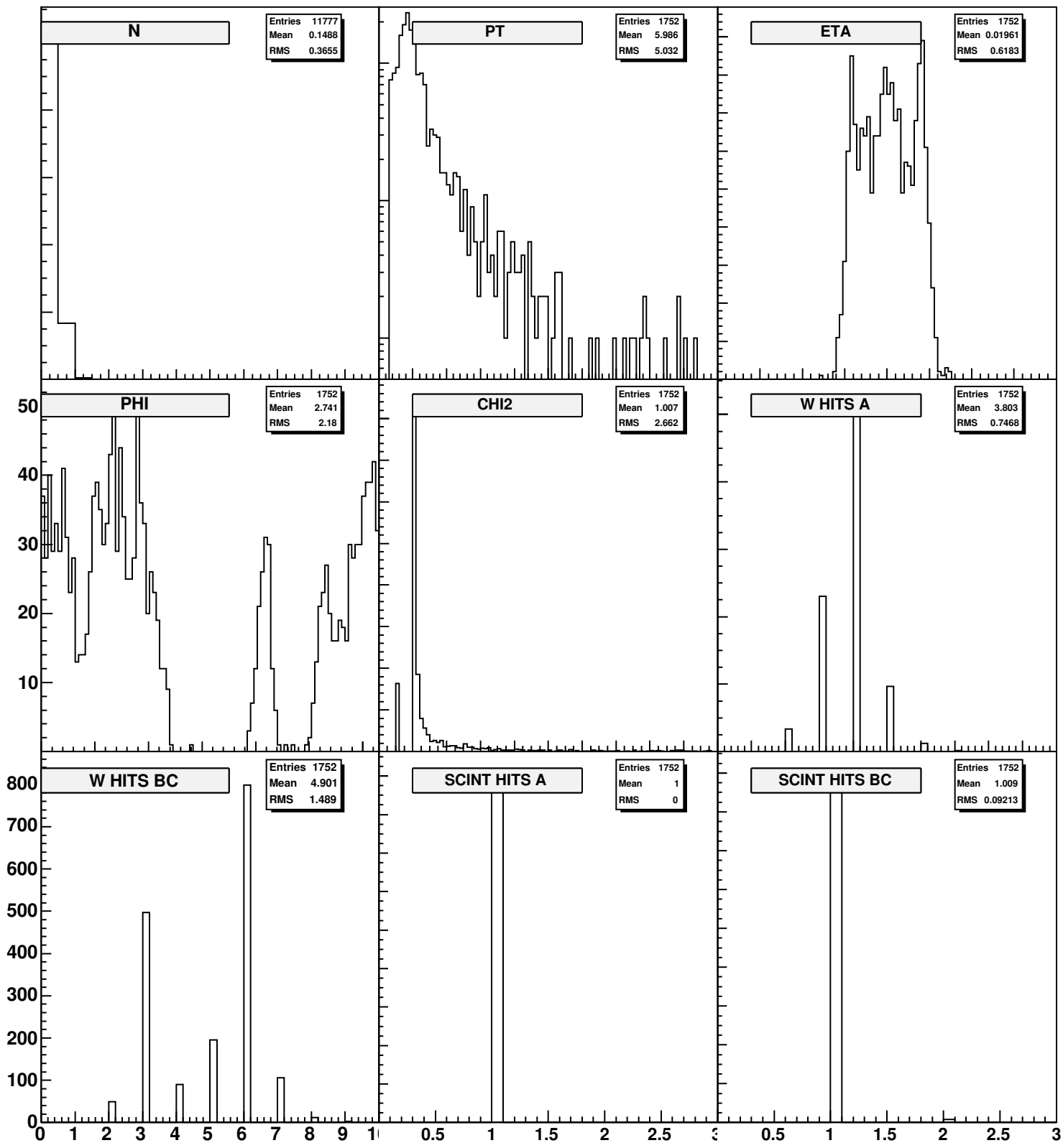
MuonMDT (All)


N
Entries 11777
Mean 6.773
RMS 4.08
Time A layer Wamus
Entries 14854
Mean 13.84
RMS 18.85
Time C layer Wamus
Entries 8982
Mean 21.93
RMS 25.54
Time A layer Famus
Entries 32046
Mean 18.1
RMS 19.72
Time B layer Famus
Entries 9426
Mean 14.27
RMS 16.87
Time C layer Famus
Entries 13428
Mean 19.39
RMS 18.31
Layer vs Octant Wamus
Layer vs Octant Famus N
Layer vs Octant Famus S

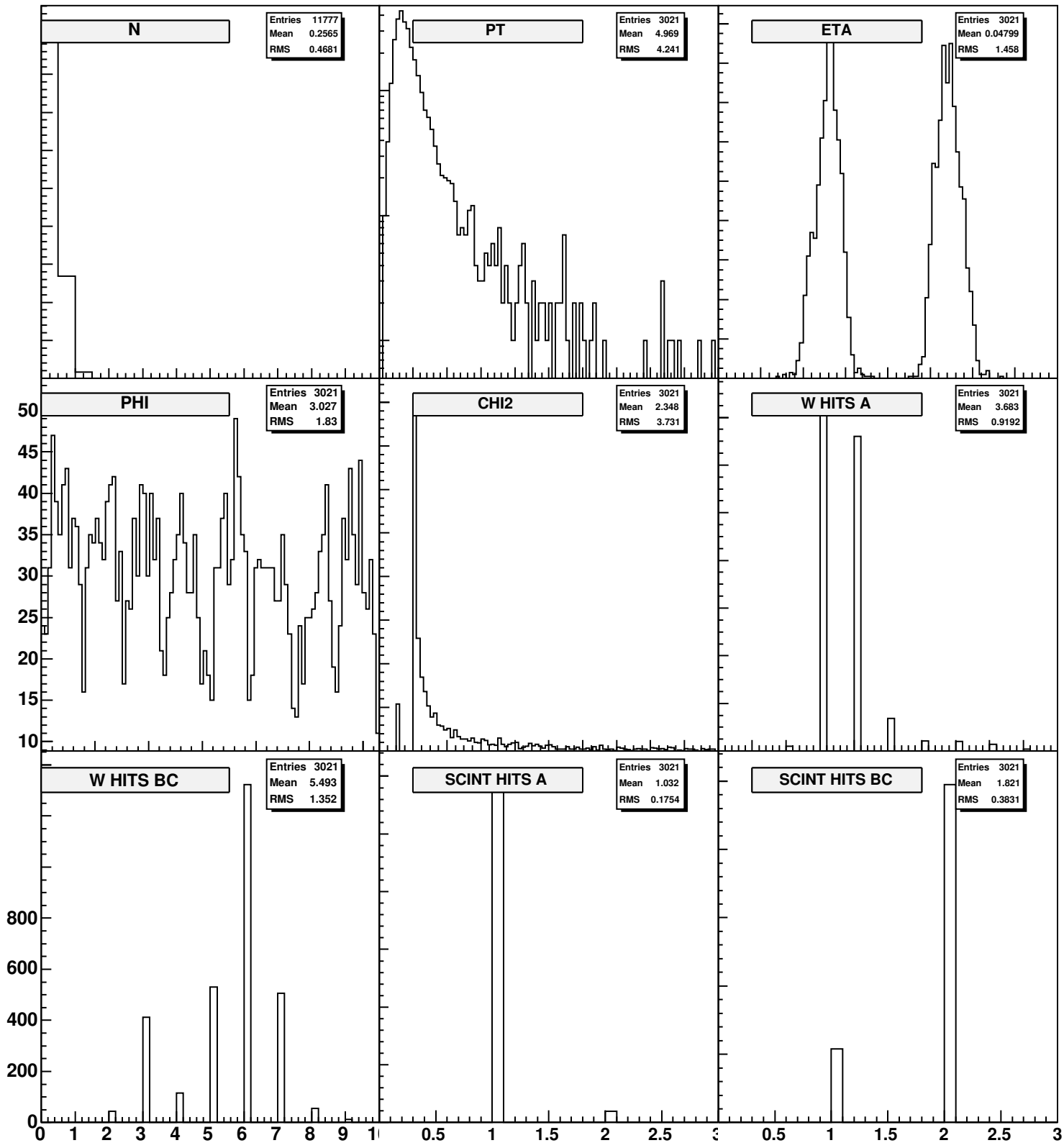
MuonMSC (All)



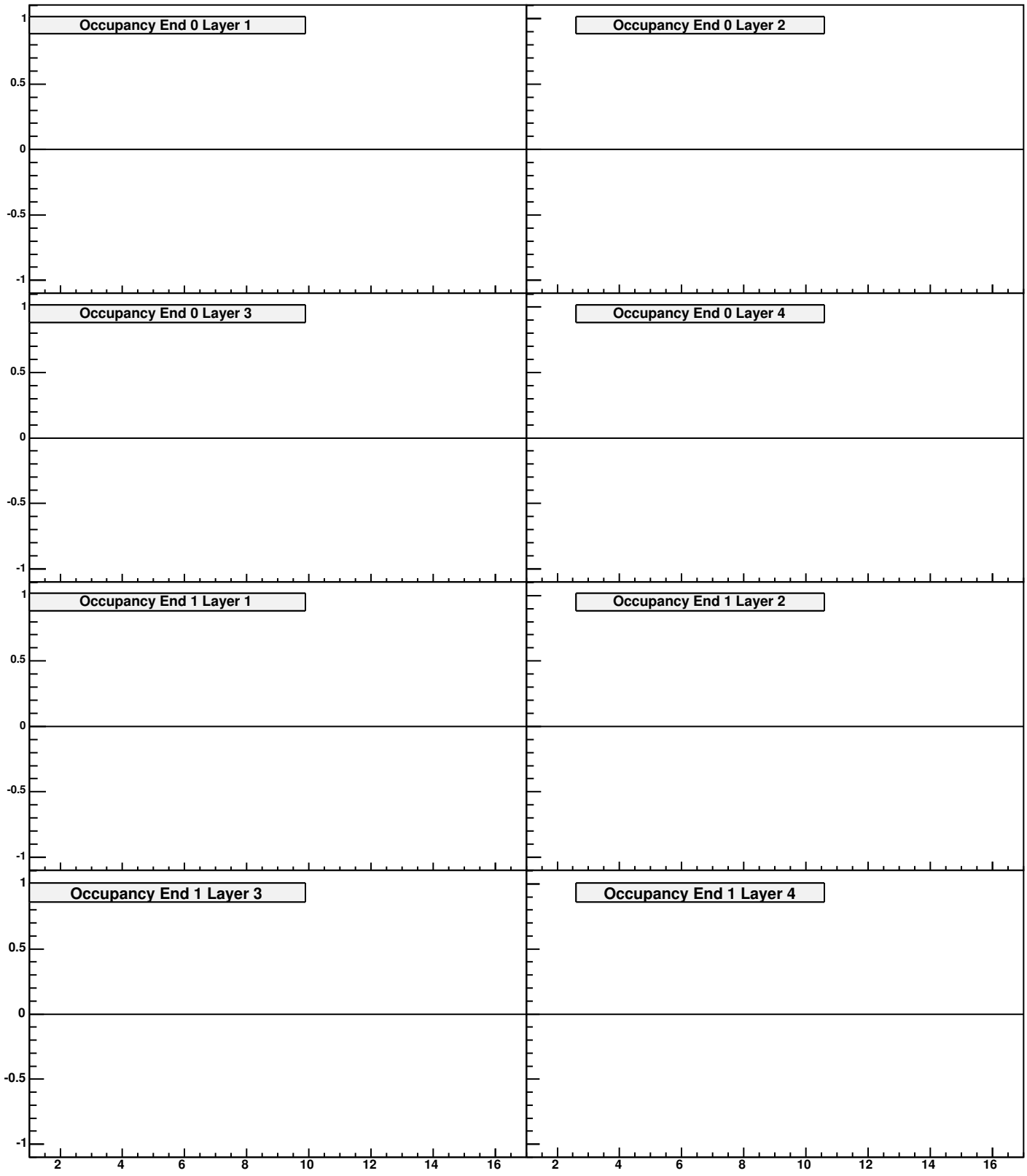
Muon Local Tracks (All)



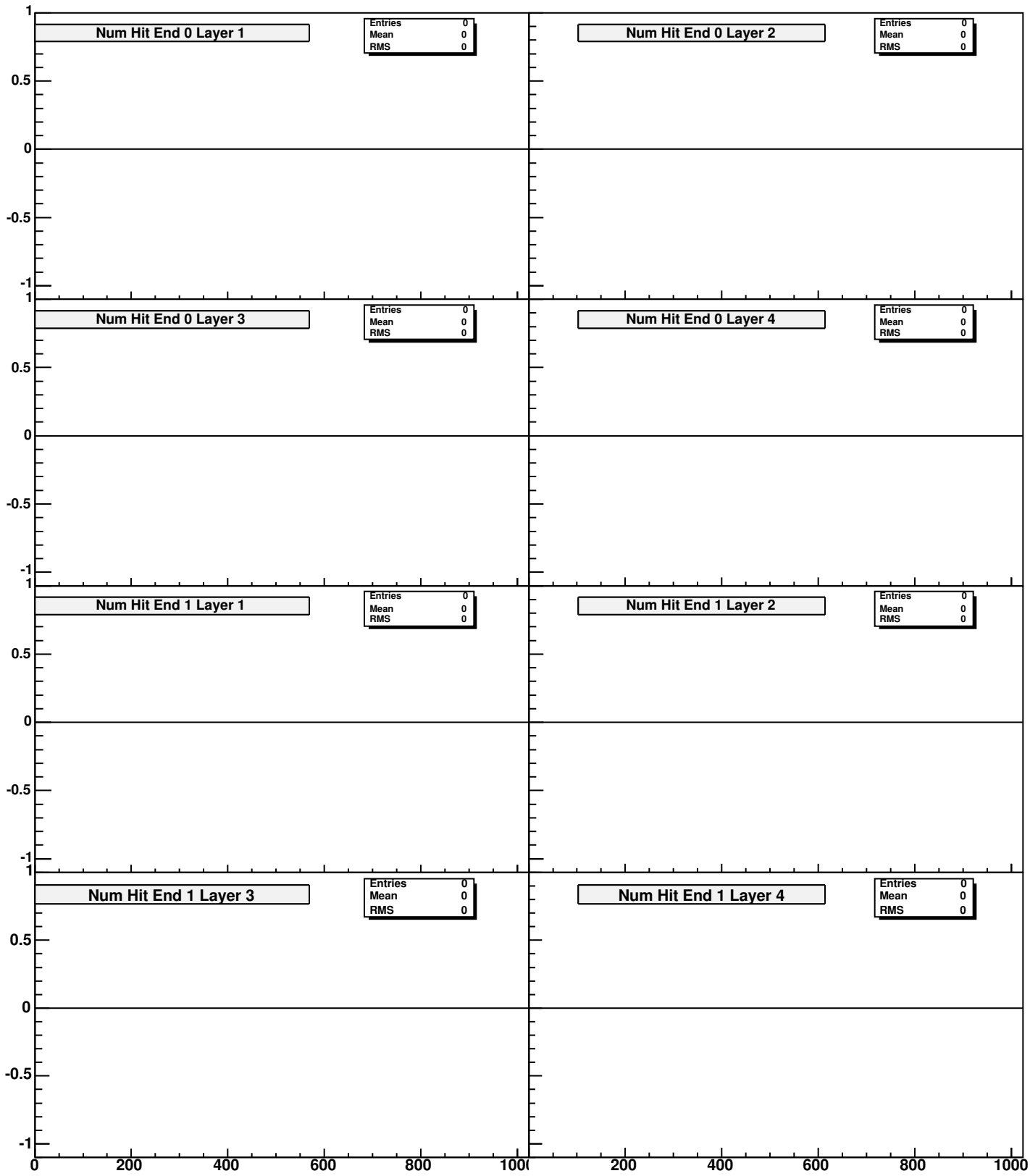
Muon Local Tracks (MediumWamus)



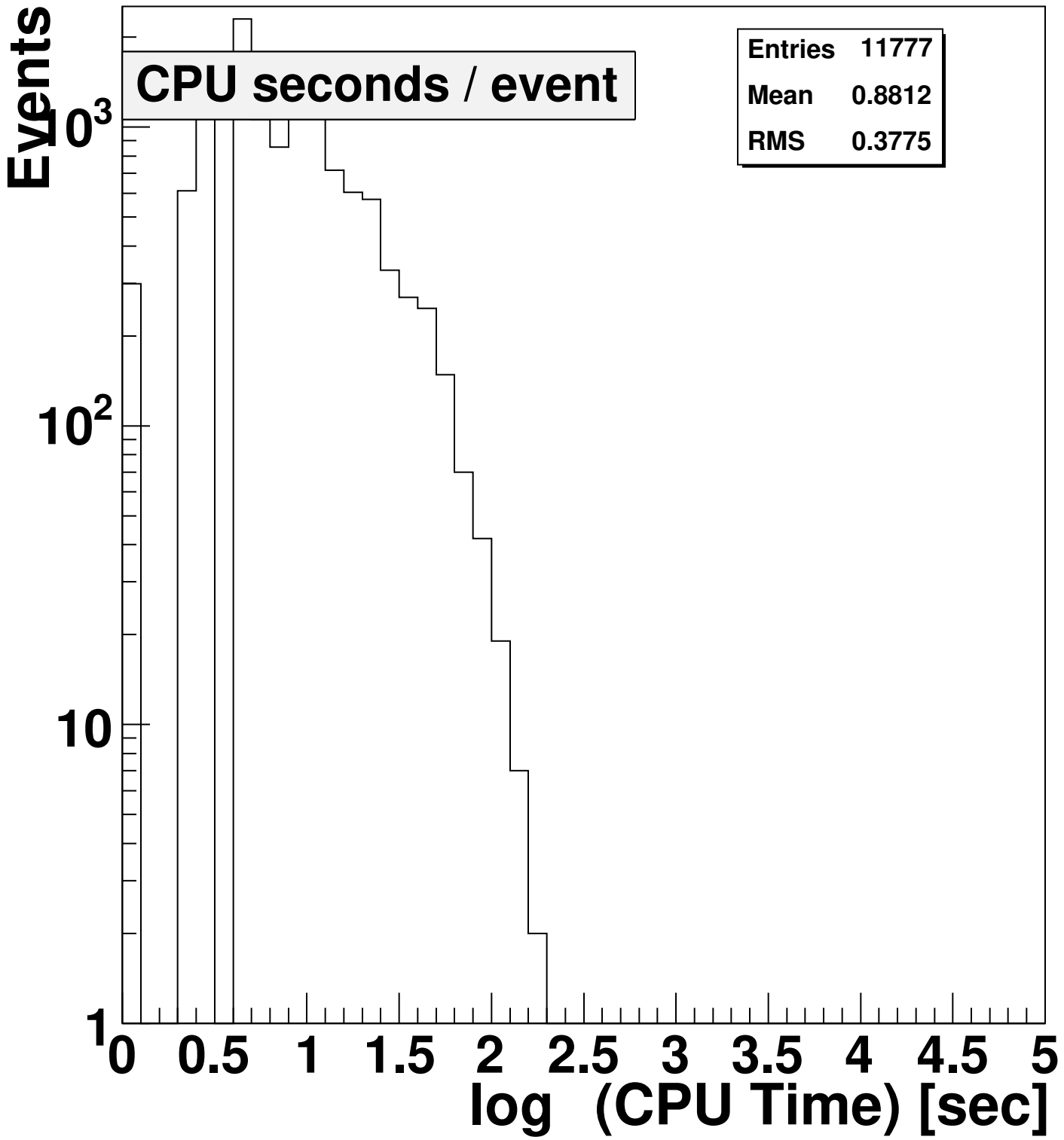
Muon Local Tracks (MediumFamus)



FPS Hit Occupancy (All)



FPS Number of Hits (All)



RECO Performance (Timing)