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Page 3: Tracks Hits (All)
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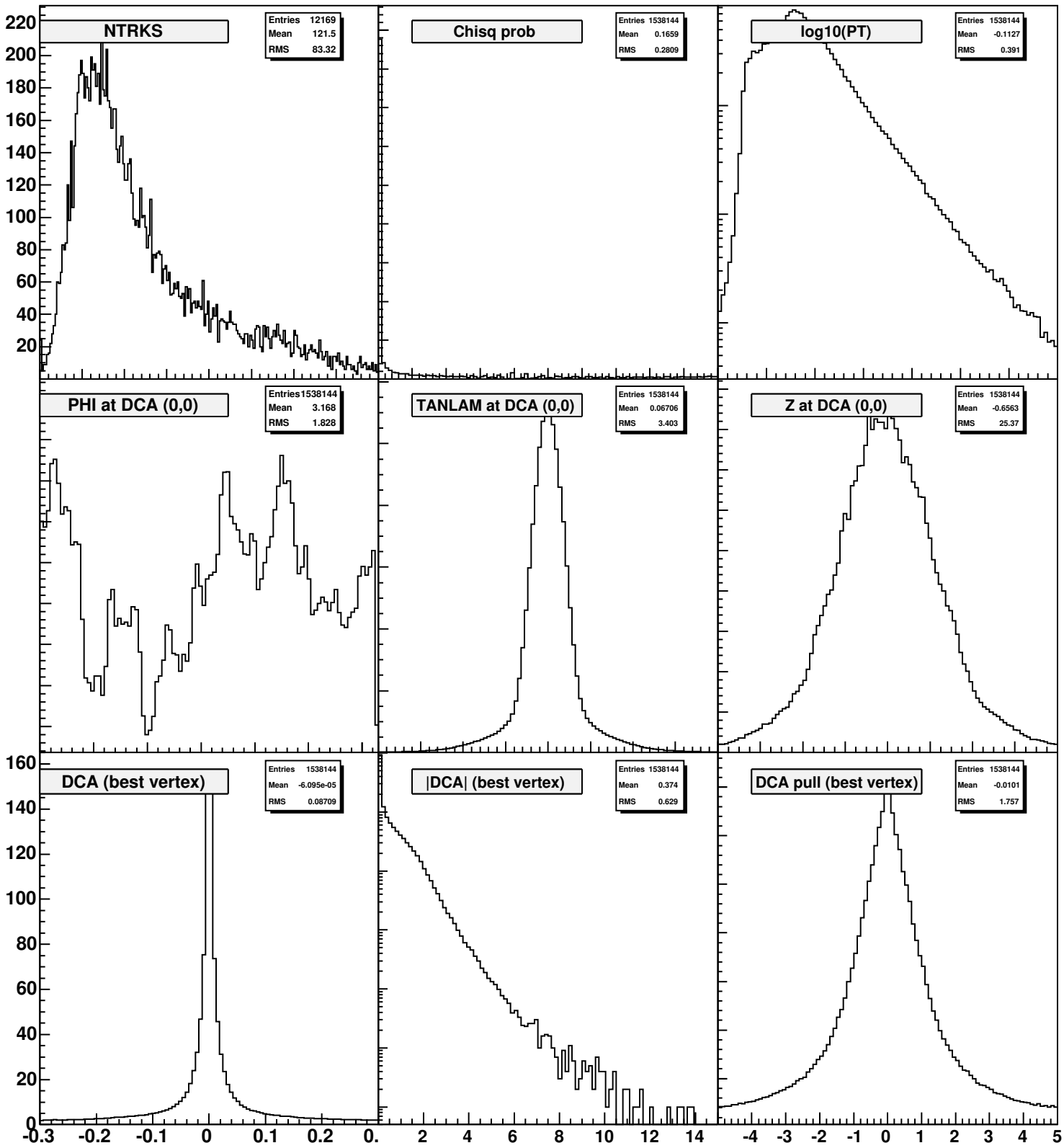
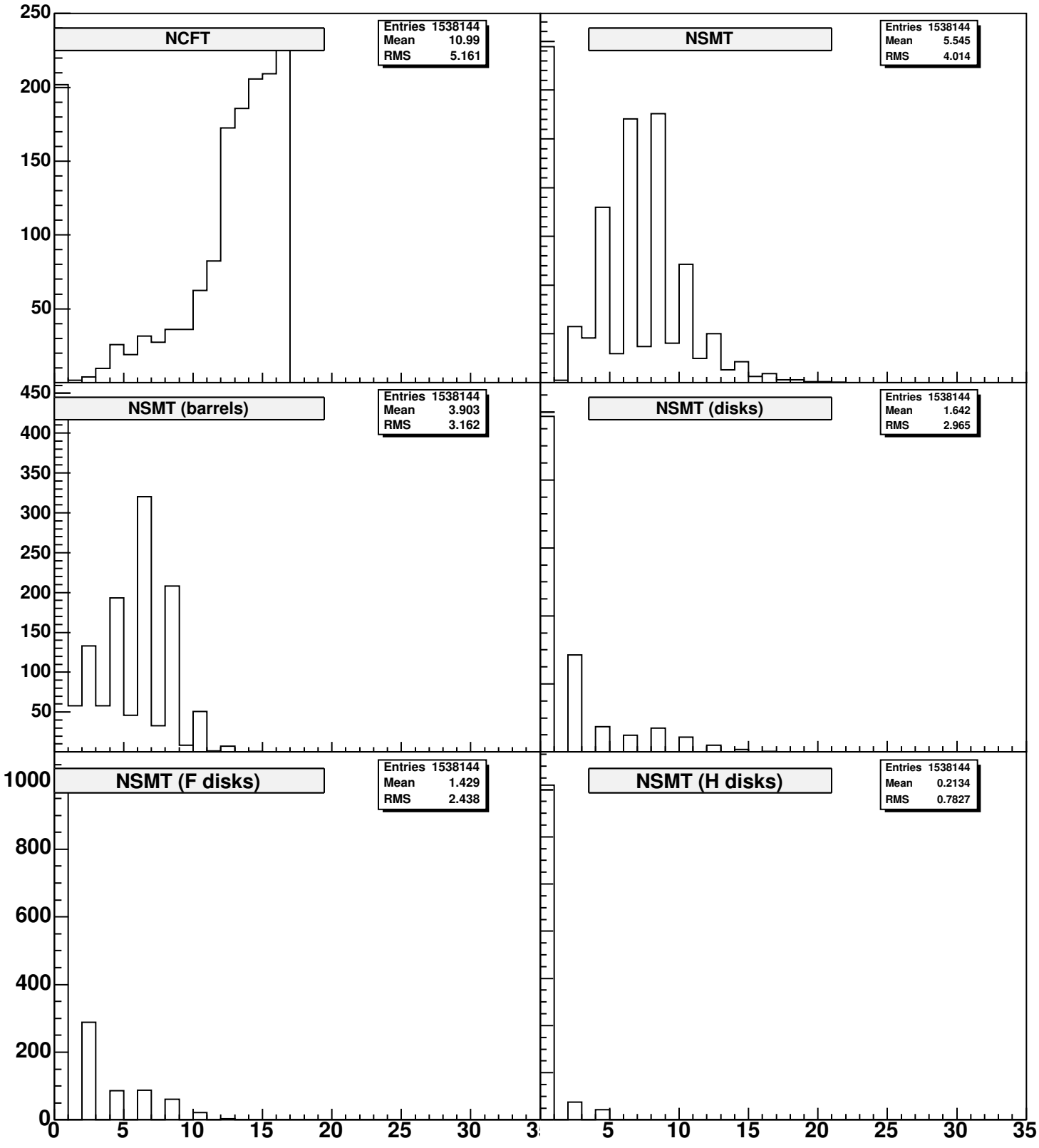
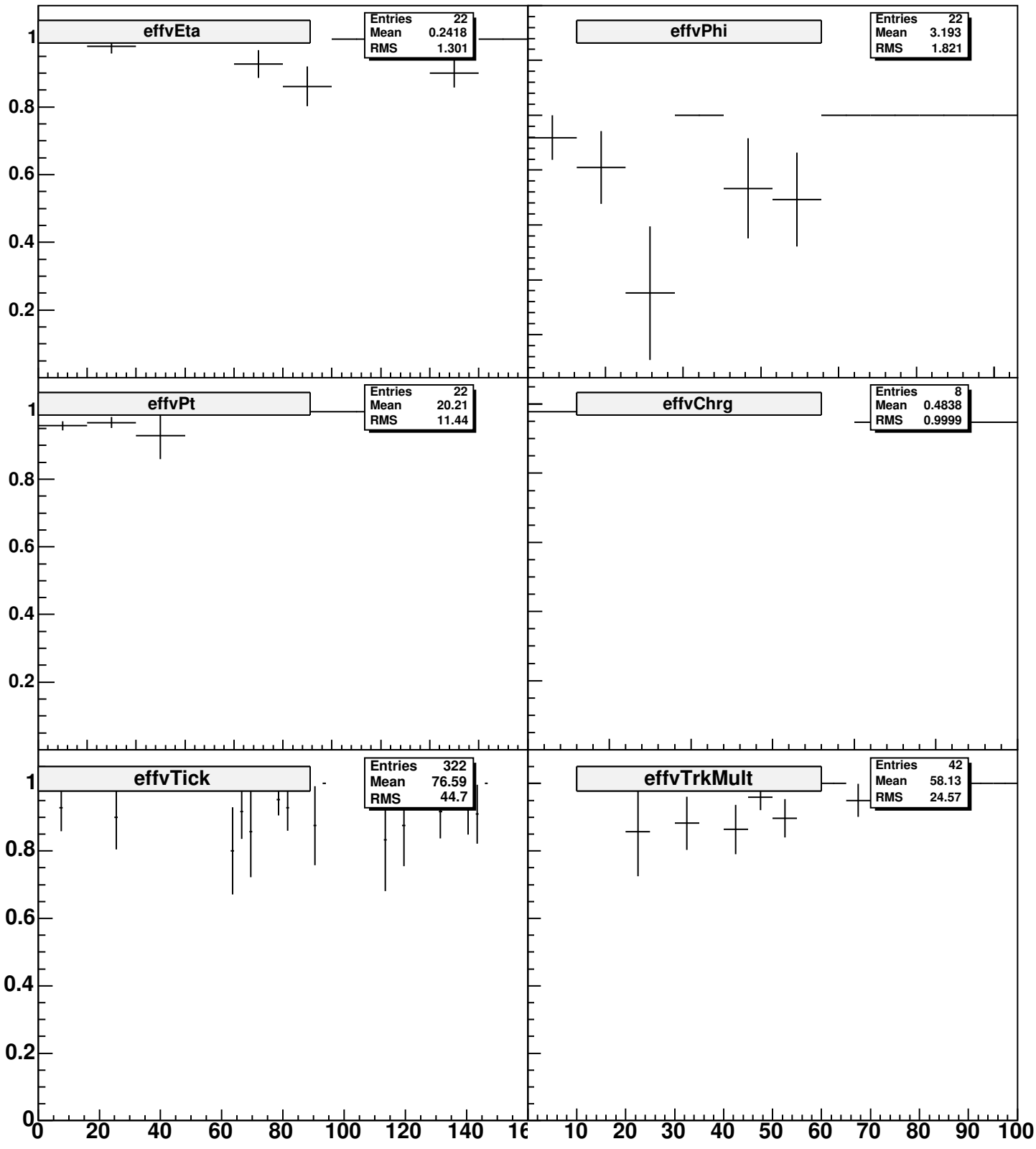
RecoCert_Plots (Index)

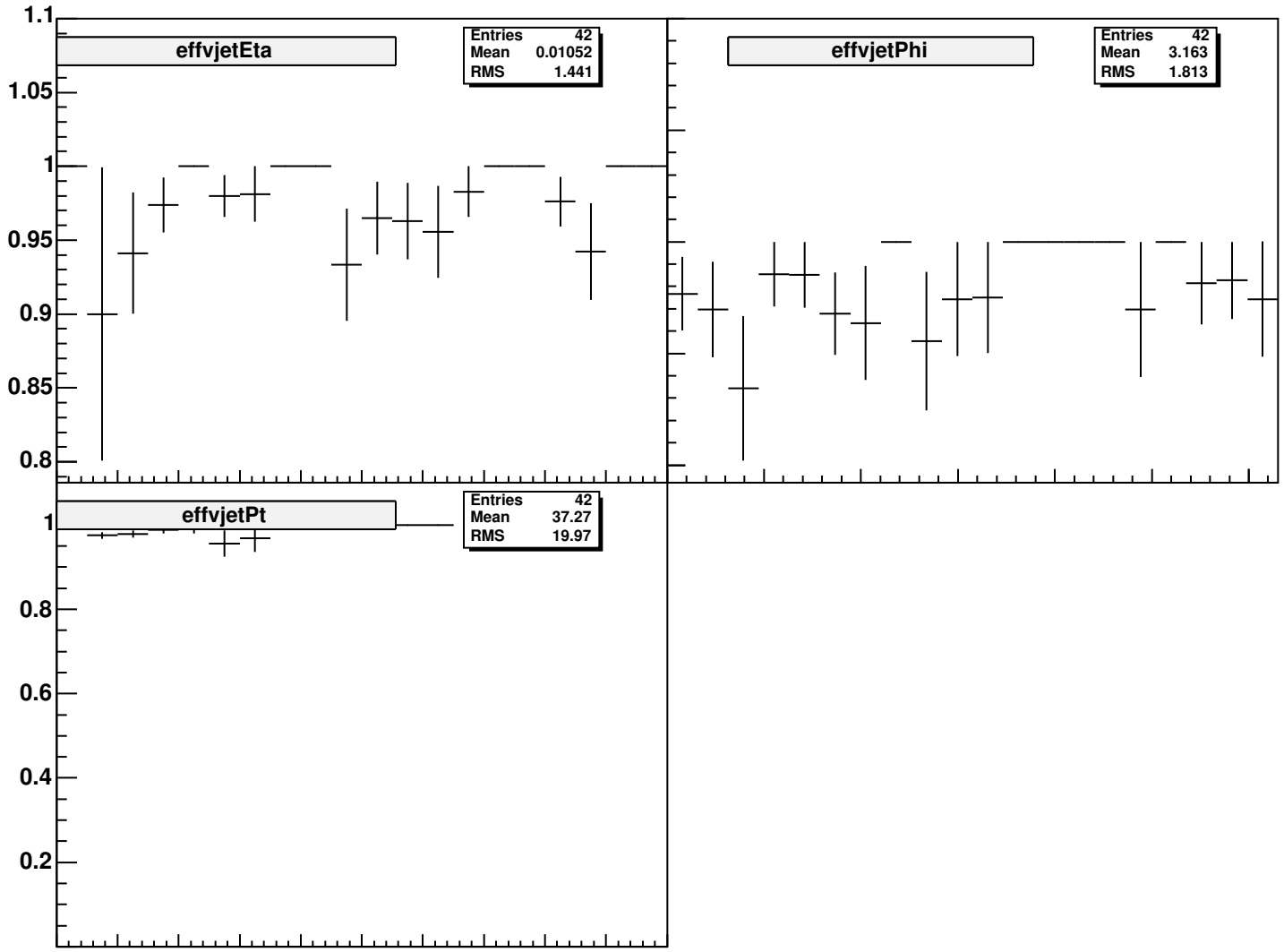

NTRKS
Entries 12169
Mean 121.5
RMS 83.32
Chisq prob
Entries 1538144
Mean 0.1659
RMS 0.2809
log10(PT)
Entries 1538144
Mean -0.1127
RMS 0.391
PHI at DCA (0,0)
Entries 1538144
Mean 3.168
RMS 1.828
TANLAM at DCA (0,0)
Entries 1538144
Mean 0.06706
RMS 3.403
Z at DCA (0,0)
Entries 1538144
Mean -0.6563
RMS 25.37
DCA (best vertex)
Entries 1538144
Mean -6.095e-05
RMS 0.08709
|DCA| (best vertex)
Entries 1538144
Mean 0.374
RMS 0.629
DCA pull (best vertex)
Entries 1538144
Mean -0.0101
RMS 1.757

Tracks (All)

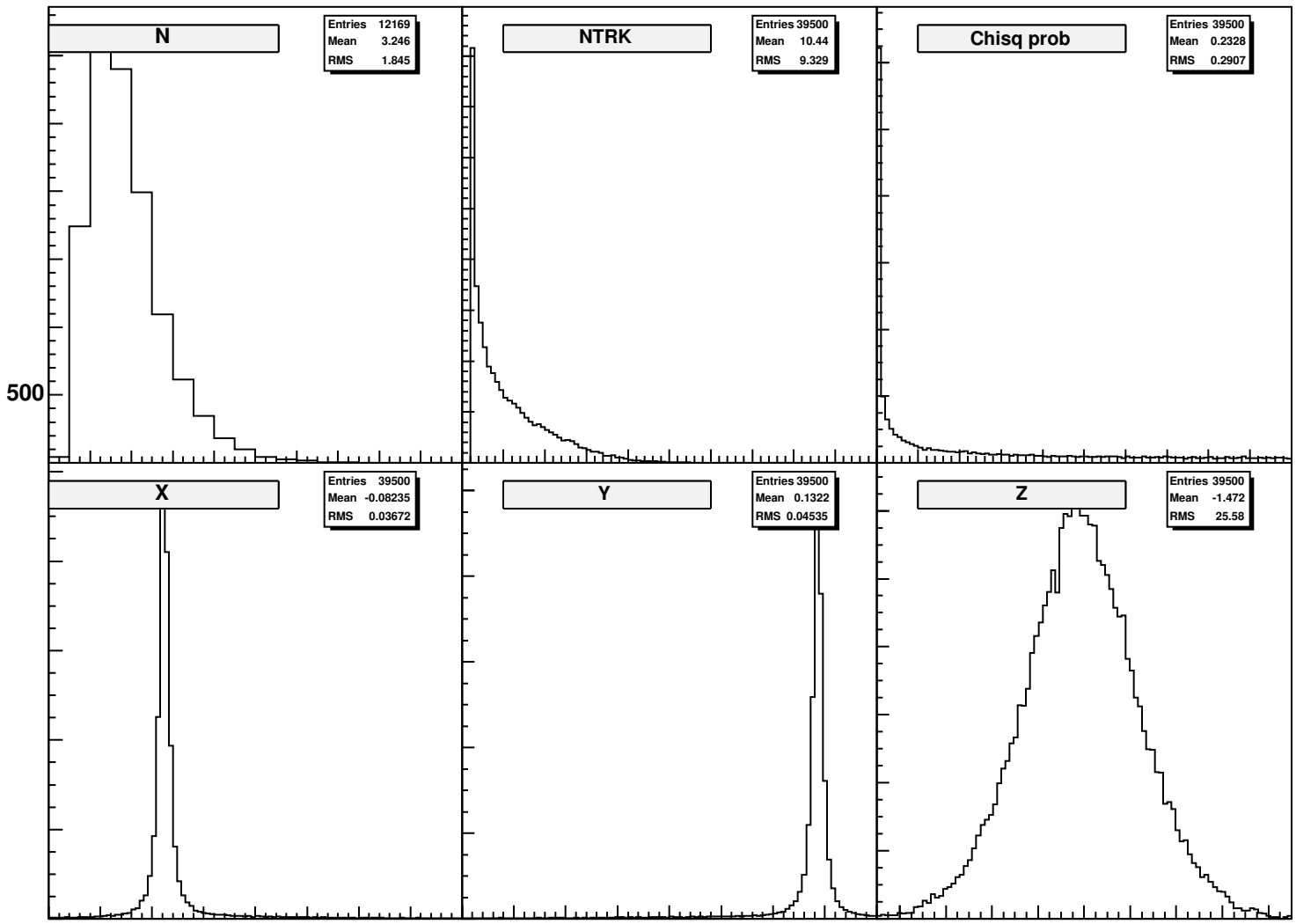

NCFT
Entries 1538144
Mean 10.99
RMS 5.161
NSMT
Entries 1538144
Mean 5.545
RMS 4.014
NSMT (barrels)
Entries 1538144
Mean 3.903
RMS 3.162
NSMT (disks)
Entries 1538144
Mean 1.642
RMS 2.965
NSMT (F disks)
Entries 1538144
Mean 1.429
RMS 2.438
NSMT (H disks)
Entries 1538144
Mean 0.2134
RMS 0.7827
Track Hits (All)



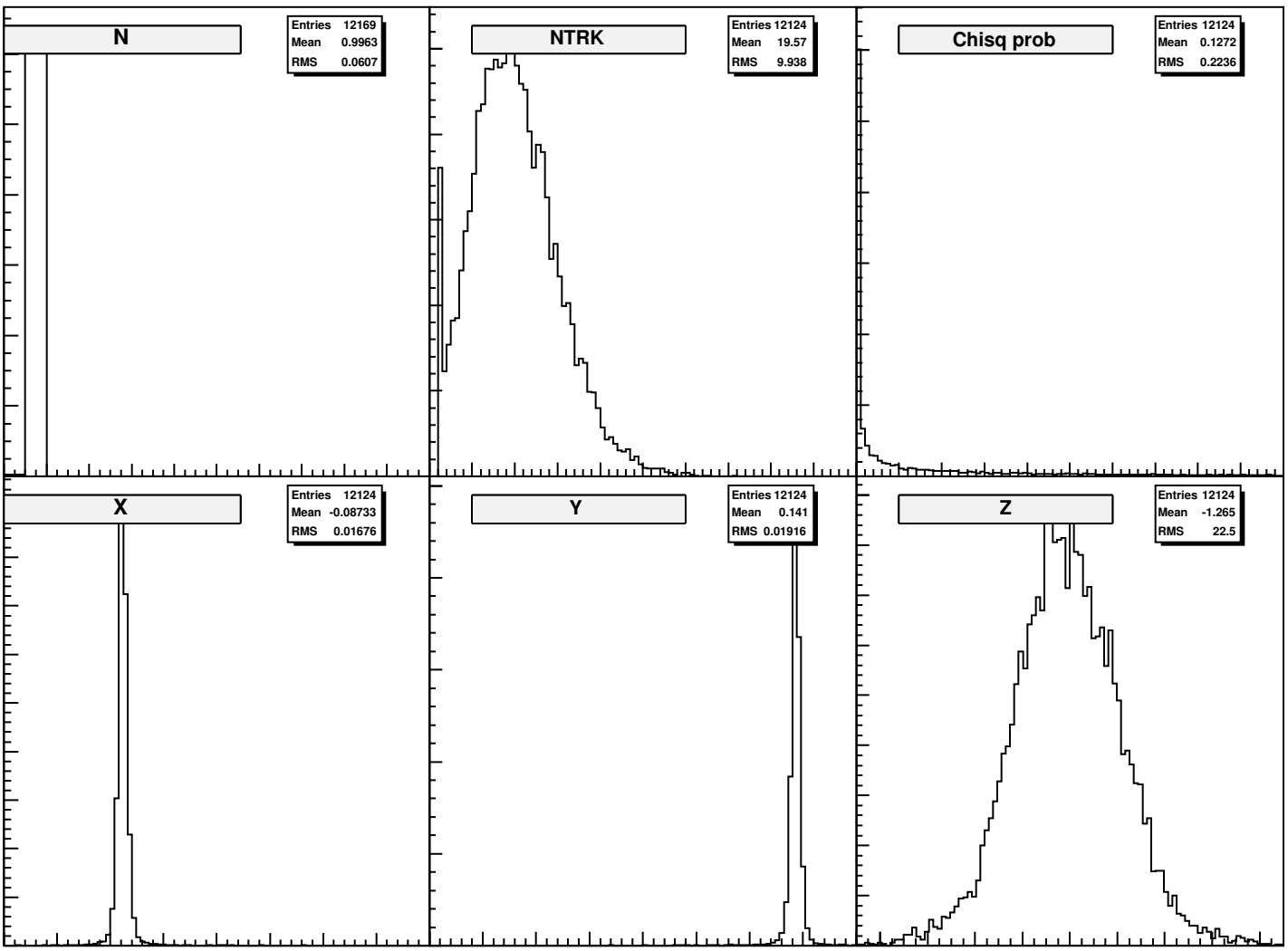
Tracking (Efficiency-Isolated)



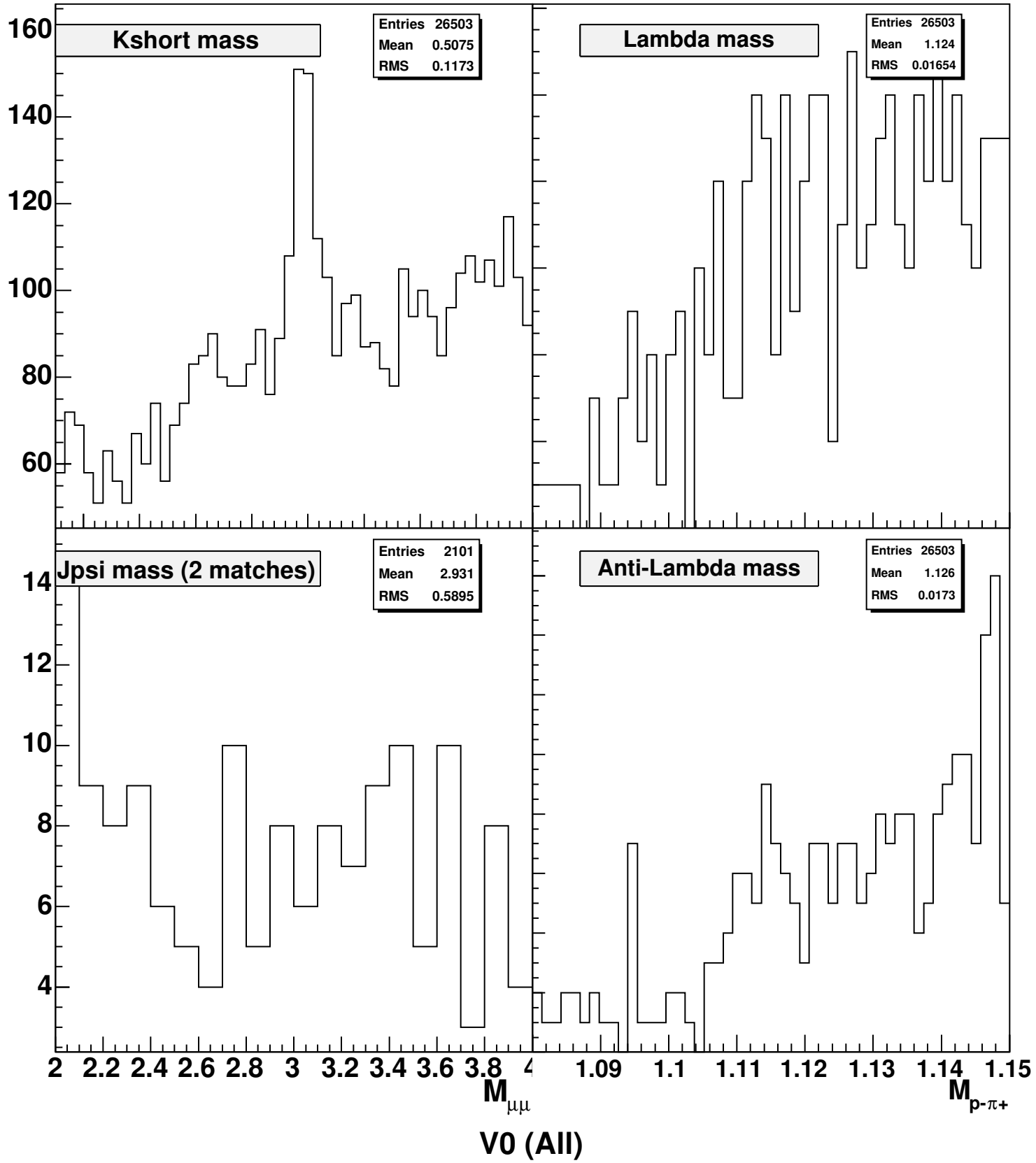
Tracking (Efficiency-InJets)

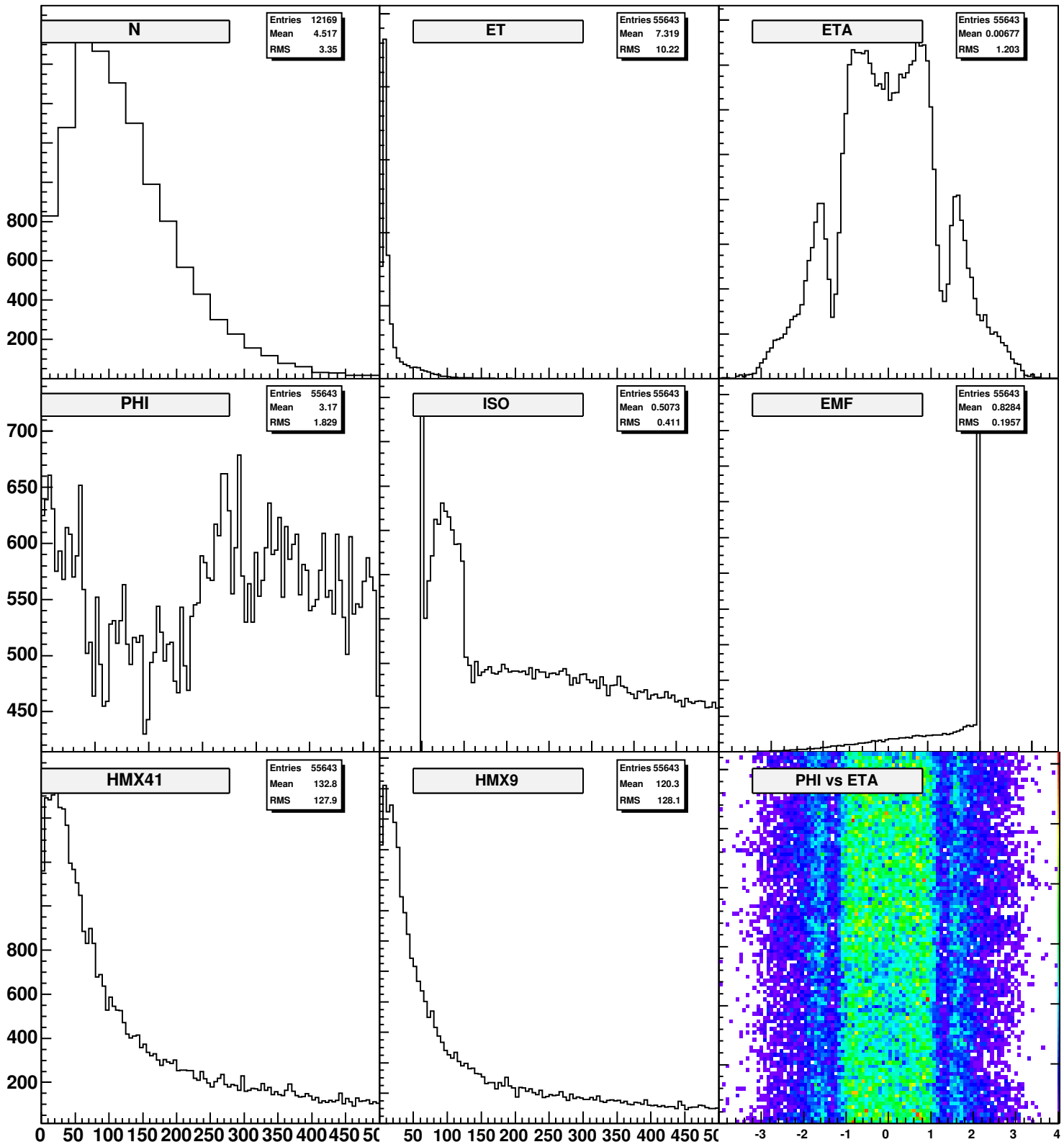


Vertices (Primary - all candidates)

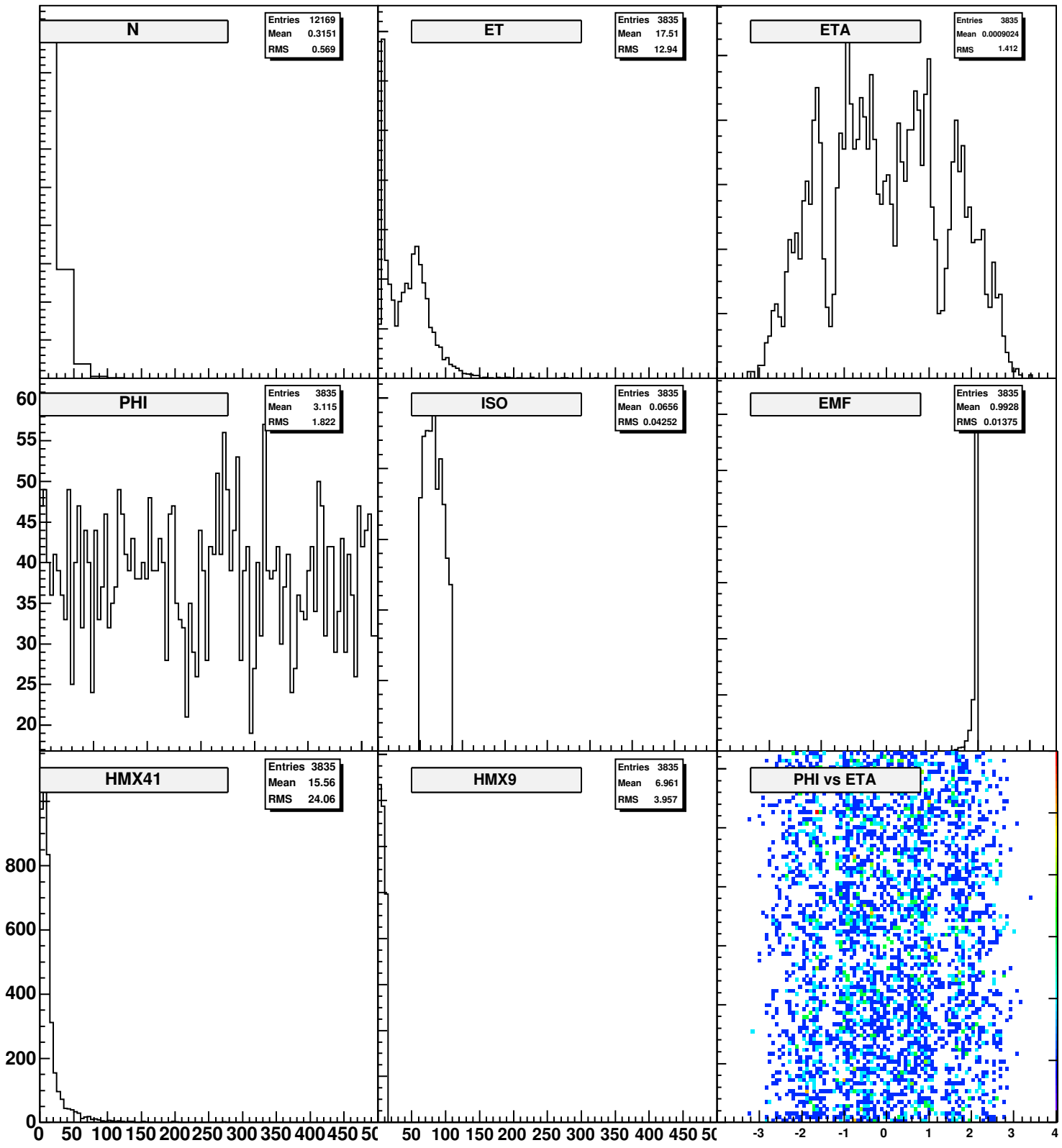


Vertices (Primary - best)

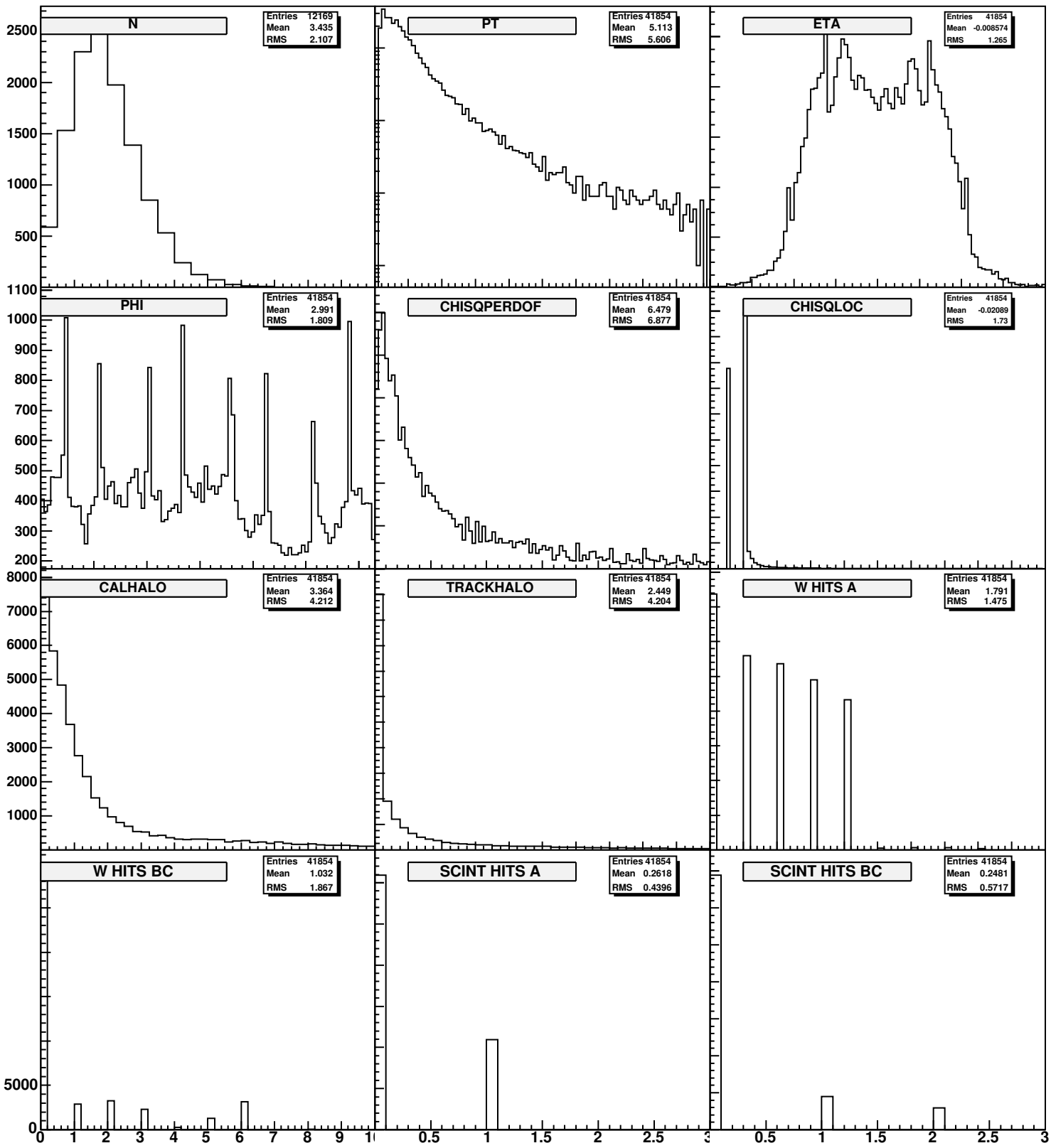

Kshort mass
Entries 26503
Mean 0.5075
RMS 0.1173
Lambda mass
Entries 26503
Mean 1.124
RMS 0.01654
Jpsi mass (2 matches)
Entries 2101
Mean 2.931
RMS 0.5895
Anti-Lambda mass
Entries 26503
Mean 1.126
RMS 0.0173
160
140
120
100
80
60
14
12
10
8
6
4
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
M$_{\mu\mu}$
1.09 1.1 1.11 1.12 1.13 1.14 1.15
M$_{p\text{-}\pi+}$
V0 (All)



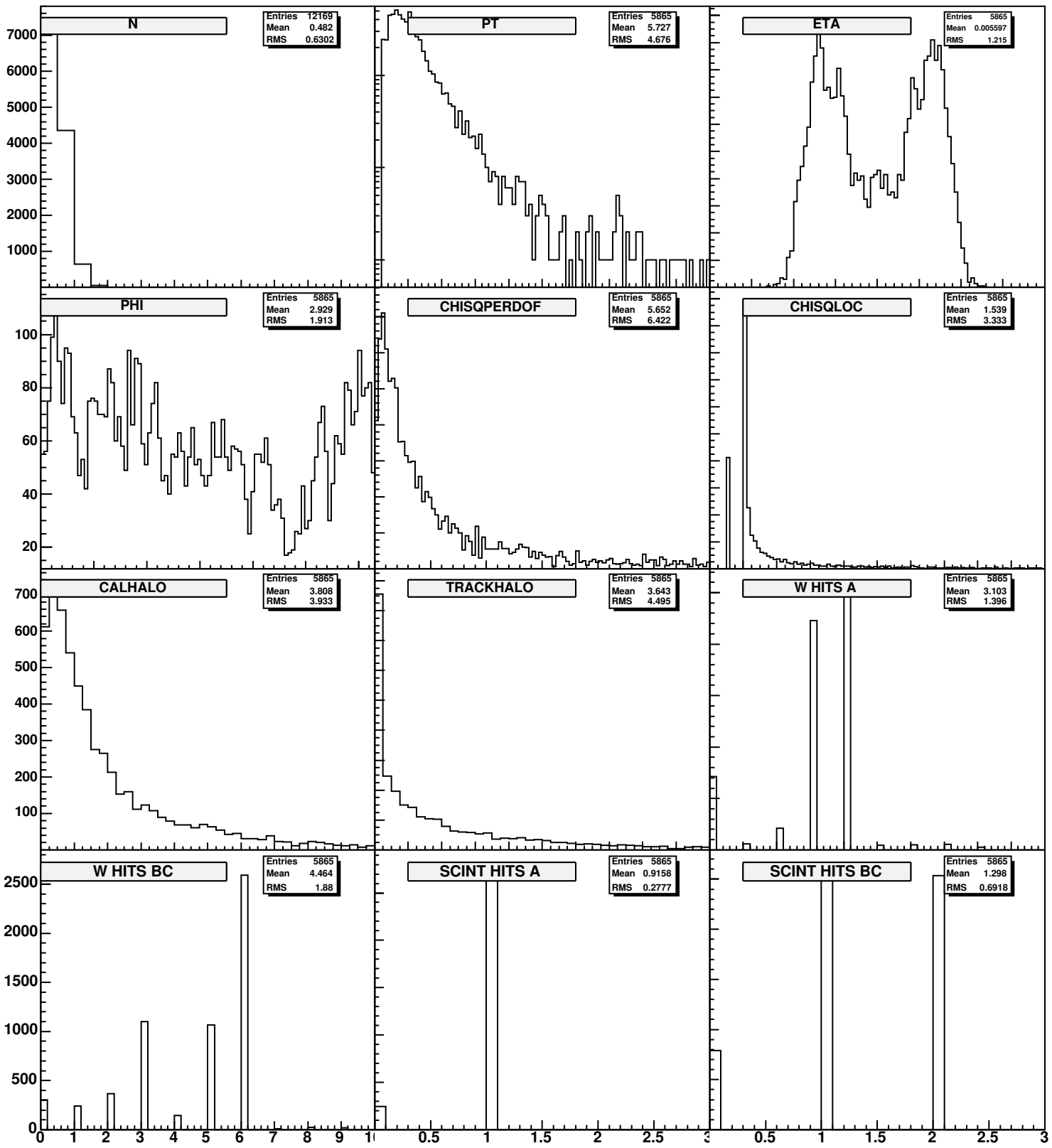
Electrons (SCONE All)



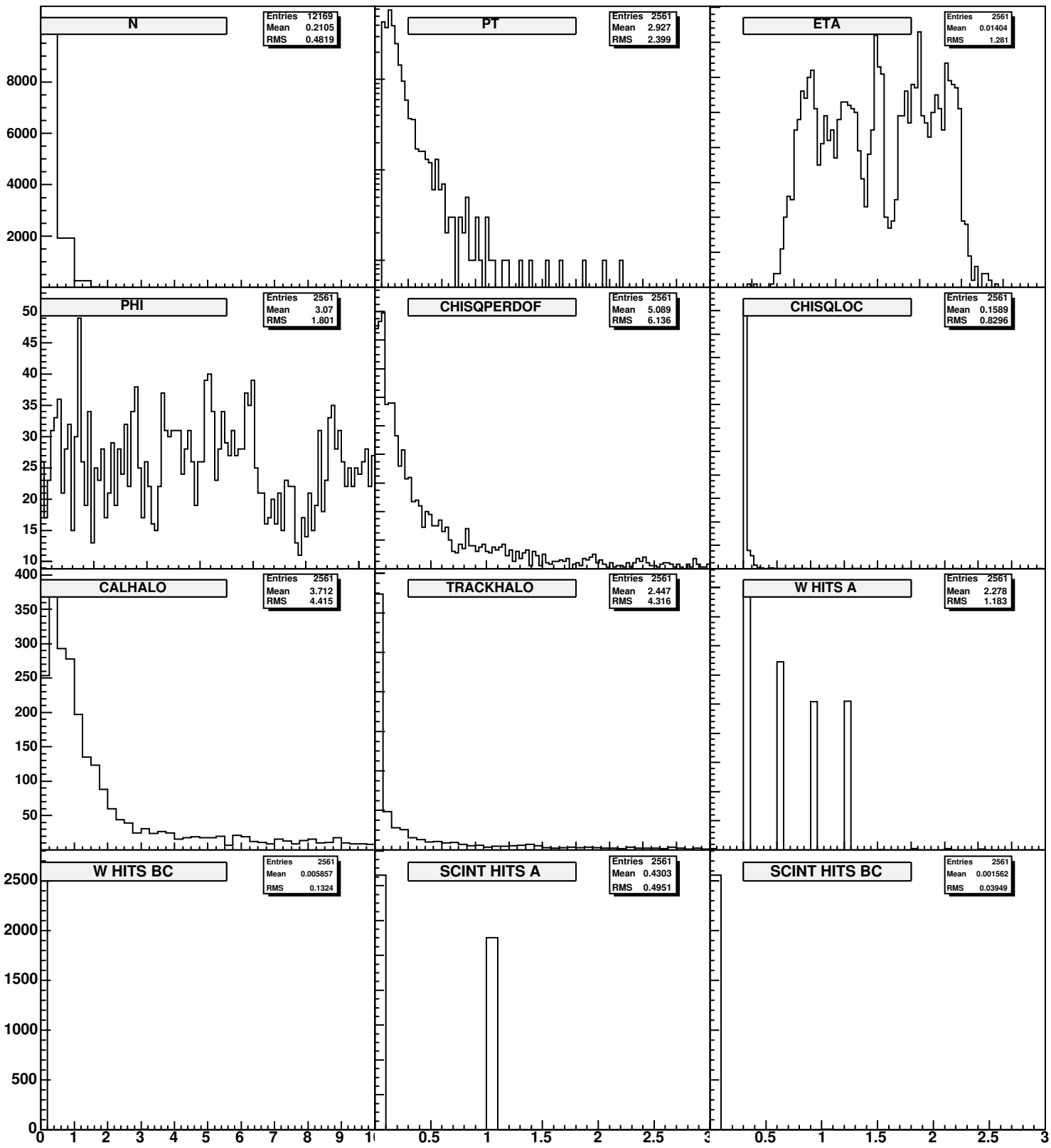
Electrons (SCONE Tight)


N
Entries 12169
Mean 3.435
RMS 2.107
PT
Entries 41854
Mean 5.113
RMS 5.606
ETA
Entries 41854
Mean -0.008574
RMS 1.265
PHI
Entries 41854
Mean 2.991
RMS 1.809
CHISQPERDOF
Entries 41854
Mean 6.479
RMS 6.877
CHISQLOC
Entries 41854
Mean -0.02089
RMS 1.73
CALHALO
Entries 41854
Mean 3.364
RMS 4.212
TRACKHALO
Entries 41854
Mean 2.449
RMS 4.204
W HITS A
Entries 41854
Mean 1.791
RMS 1.475
W HITS BC
Entries 41854
Mean 1.032
RMS 1.867
SCINT HITS A
Entries 41854
Mean 0.2618
RMS 0.4396
SCINT HITS BC
Entries 41854
Mean 0.2481
RMS 0.5717

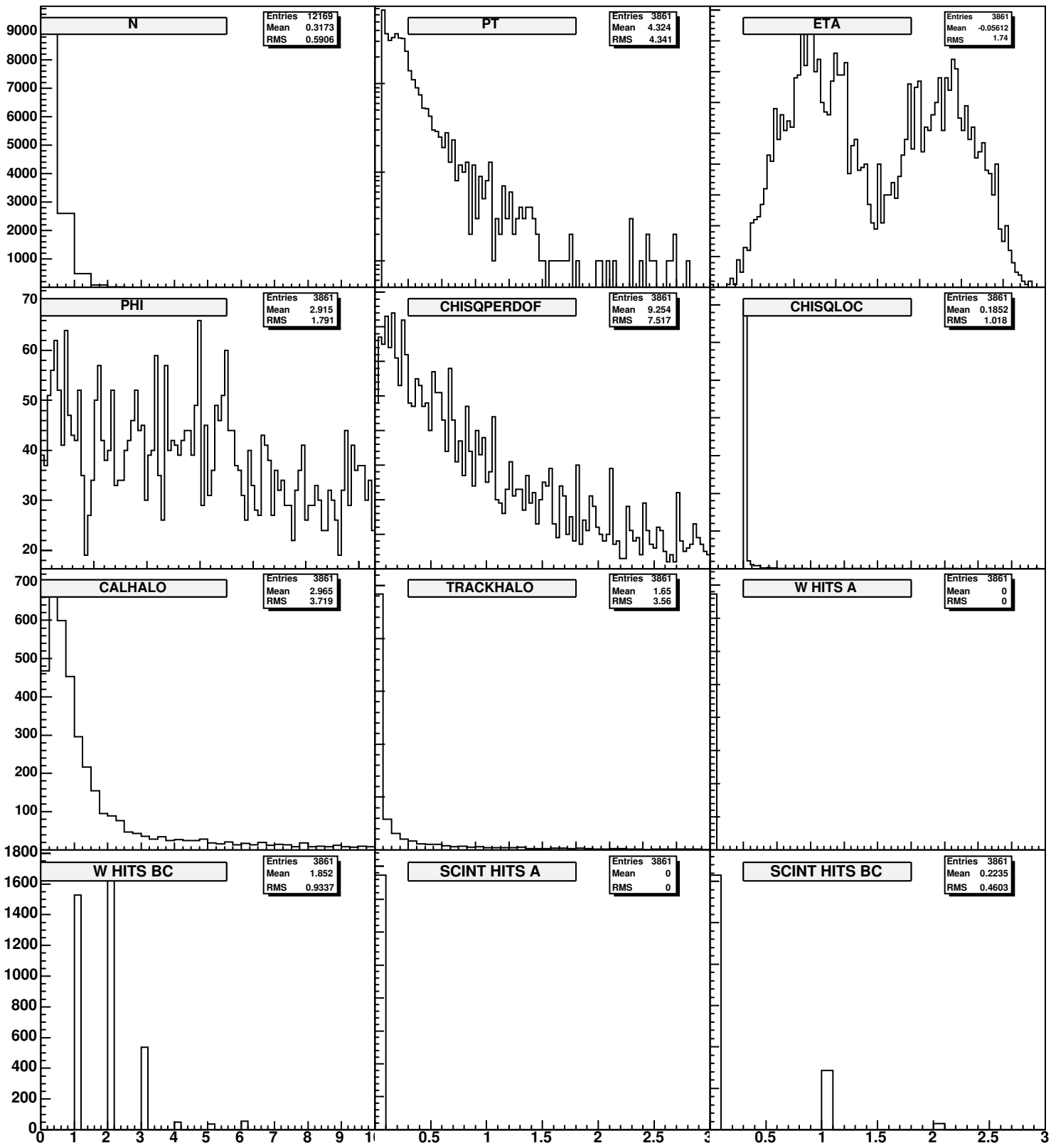
Muons (All)



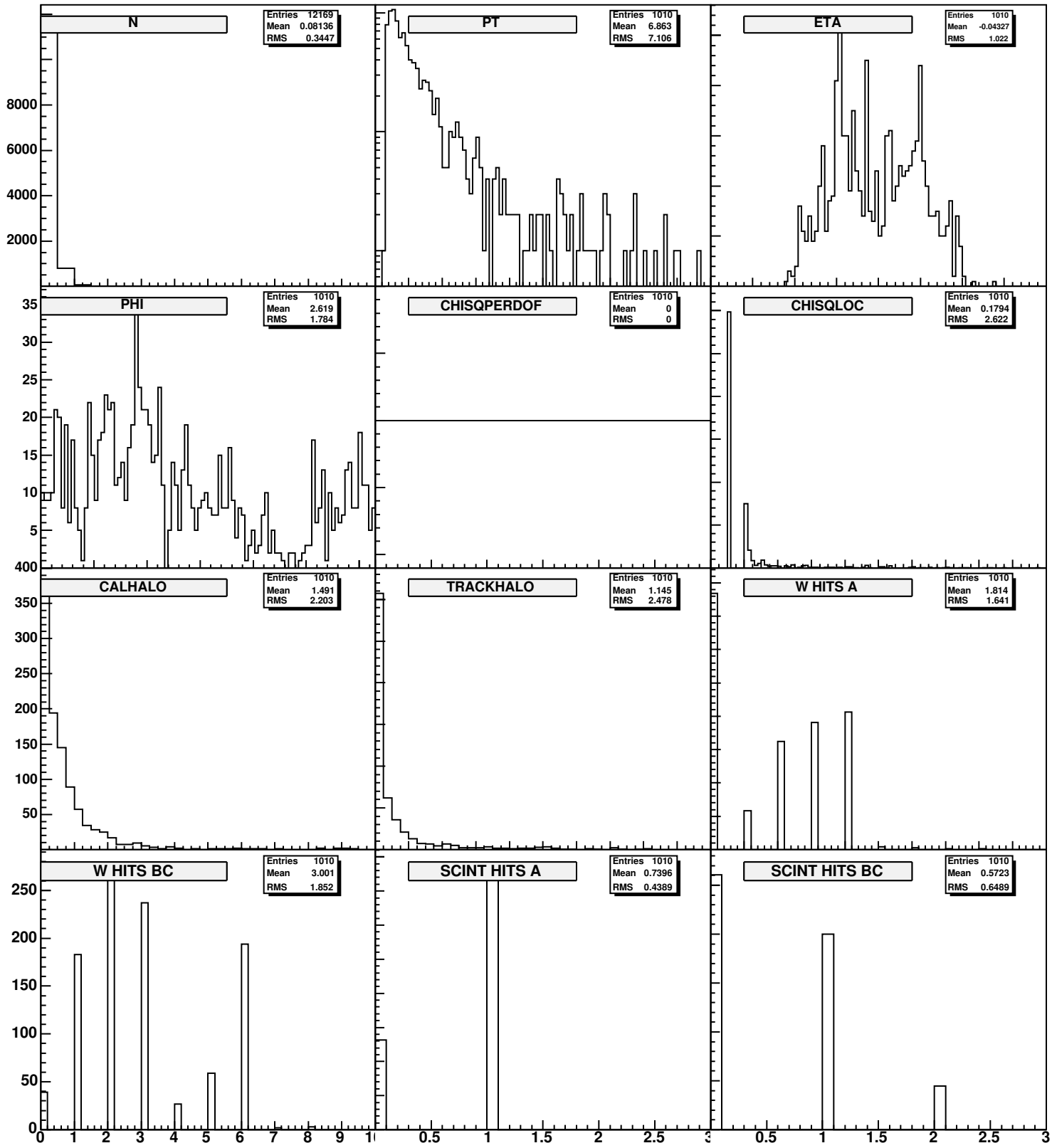
Muons (Matched)


N
Entries 12169
Mean 0.2105
RMS 0.4819
PT
Entries 2561
Mean 2.927
RMS 2.399
ETA
Entries 2561
Mean 0.01404
RMS 1.281
PHI
Entries 2561
Mean 3.07
RMS 1.801
CHISQPERDOF
Entries 2561
Mean 5.089
RMS 6.136
CHISQLOC
Entries 2561
Mean 0.1589
RMS 0.8296
CALHALO
Entries 2561
Mean 3.712
RMS 4.415
TRACKHALO
Entries 2561
Mean 2.447
RMS 4.316
W HITS A
Entries 2561
Mean 2.278
RMS 1.183
W HITS BC
Entries 2561
Mean 0.005857
RMS 0.1324
SCINT HITS A
Entries 2561
Mean 0.4303
RMS 0.4951
SCINT HITS BC
Entries 2561
Mean 0.001562
RMS 0.03949

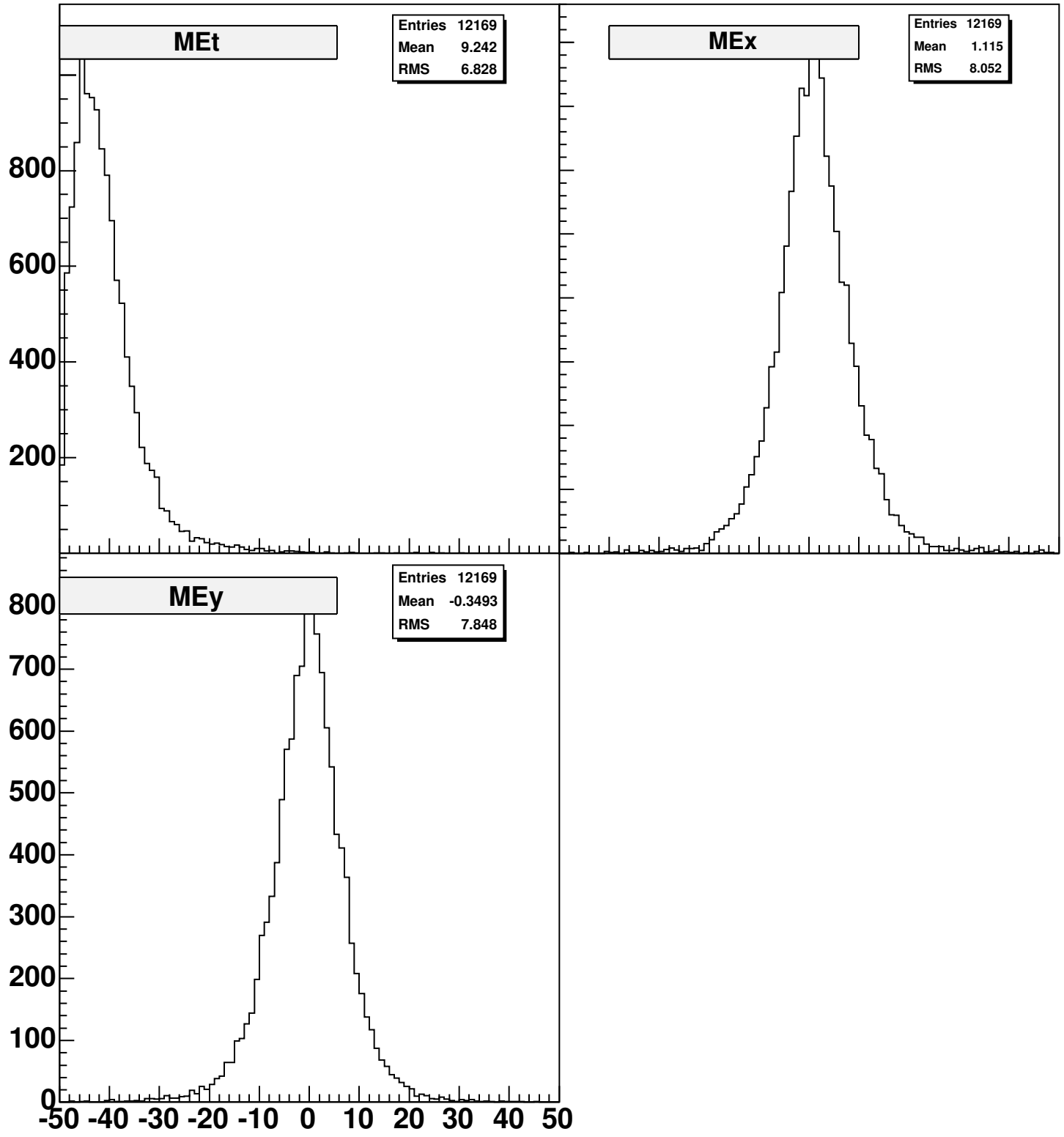
Muons (Astub)

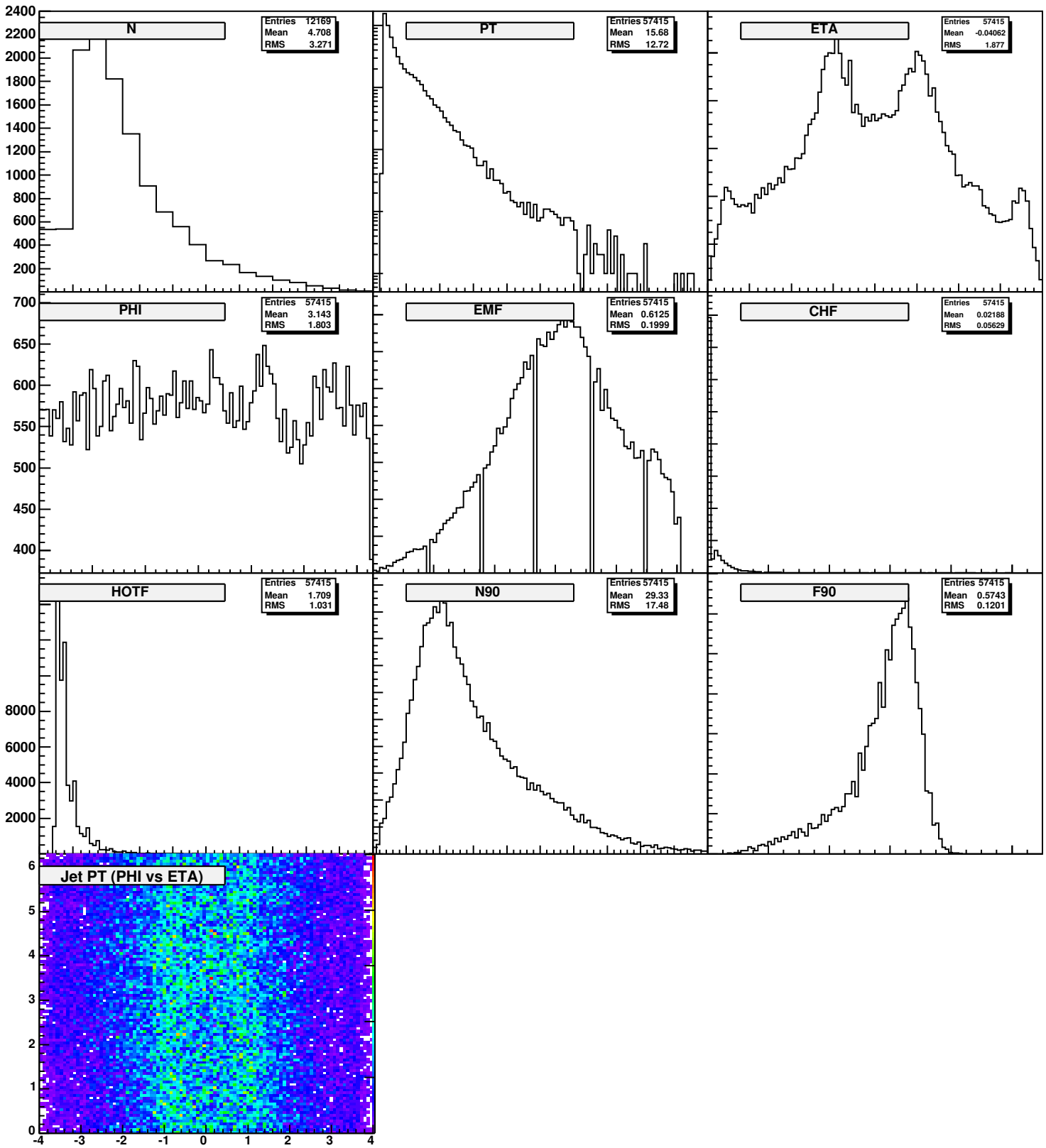


Muons (BCstub)

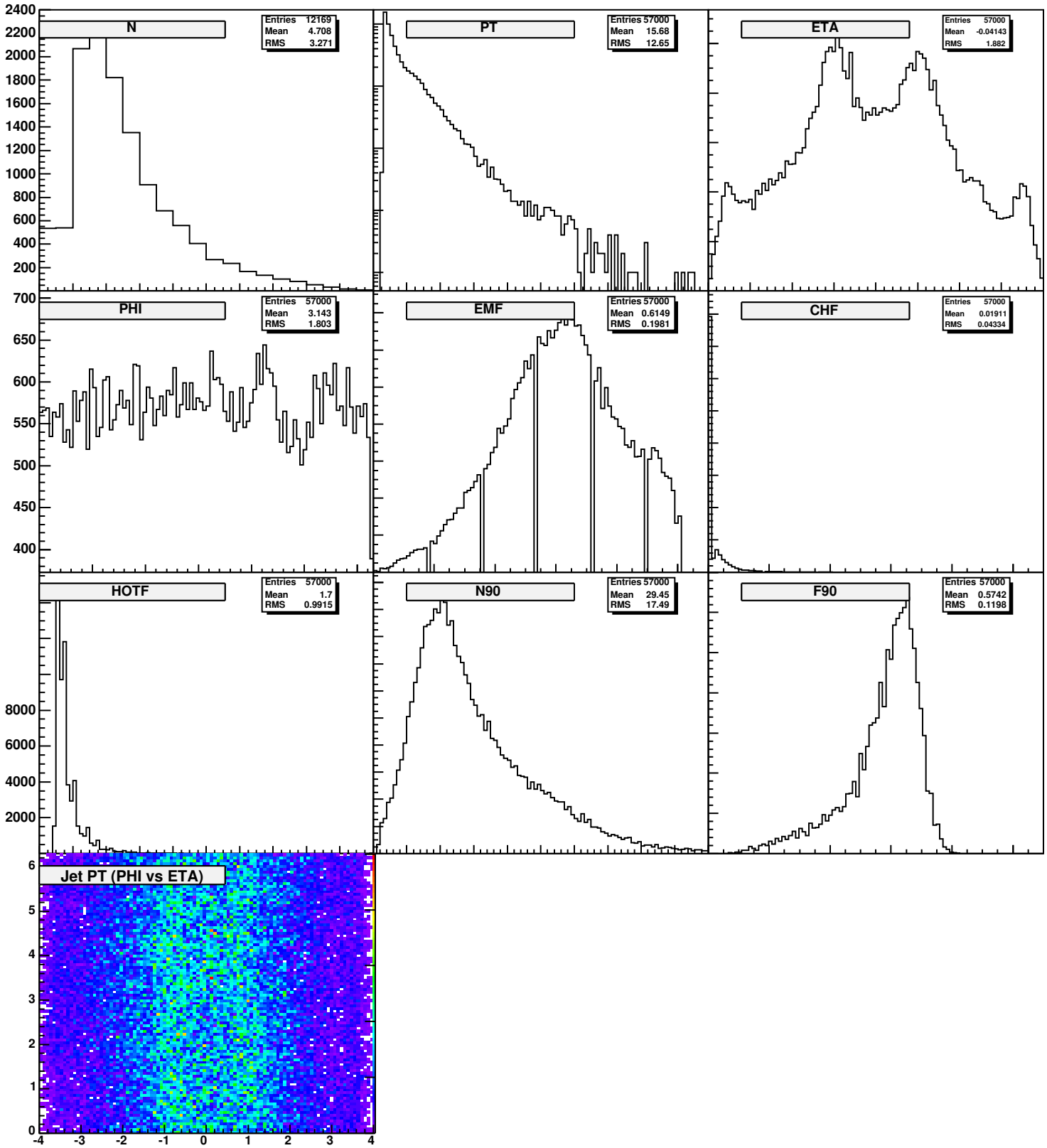


Muons (Unmatched)

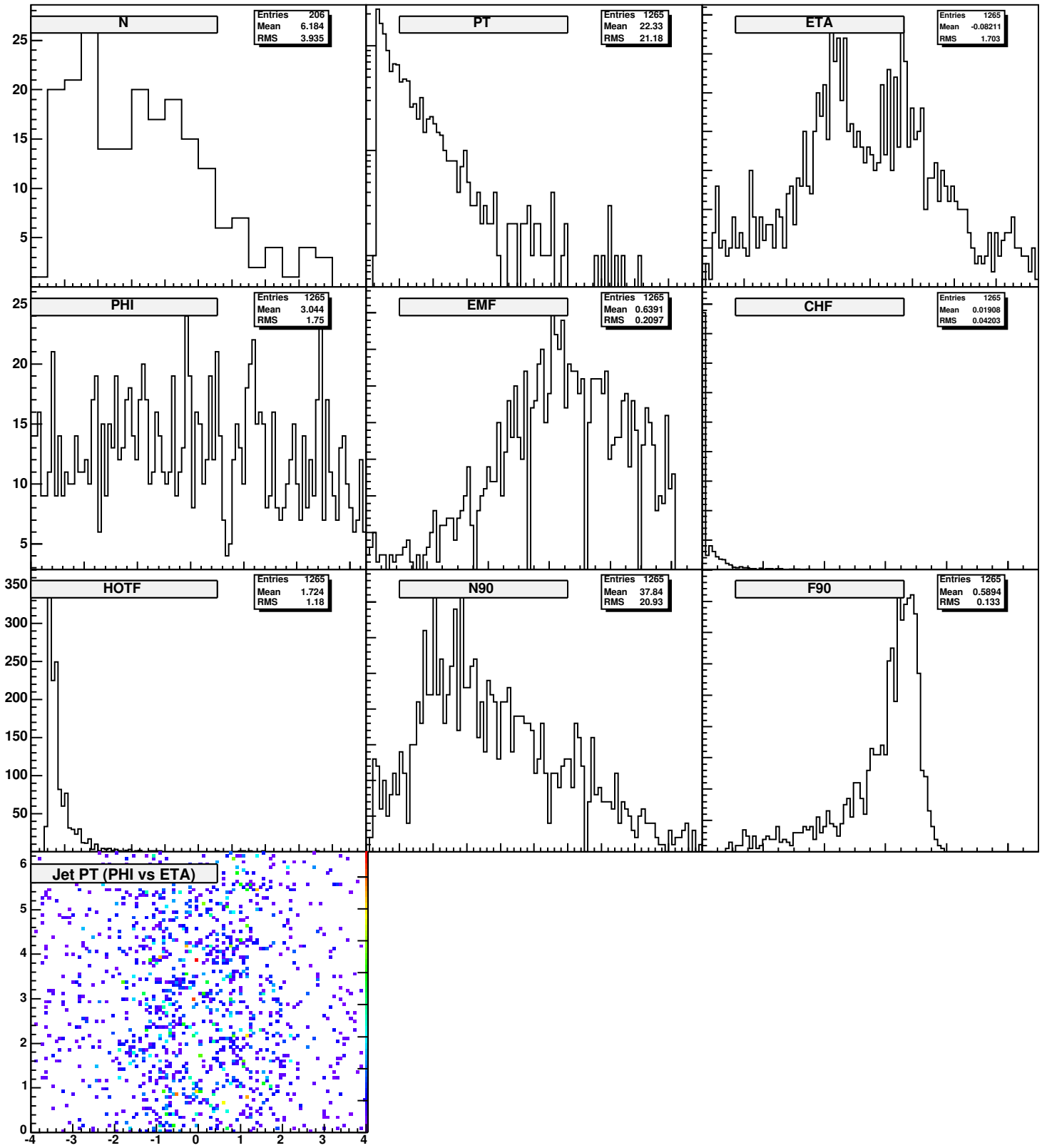

MEt
Entries 12169
Mean 9.242
RMS 6.828
MEx
Entries 12169
Mean 1.115
RMS 8.052
MEy
Entries 12169
Mean -0.3493
RMS 7.848
800
600
400
200
800
700
600
500
400
300
200
100
0
-50 -40 -30 -20 -10 0 10 20 30 40 50
Met (No cuts)



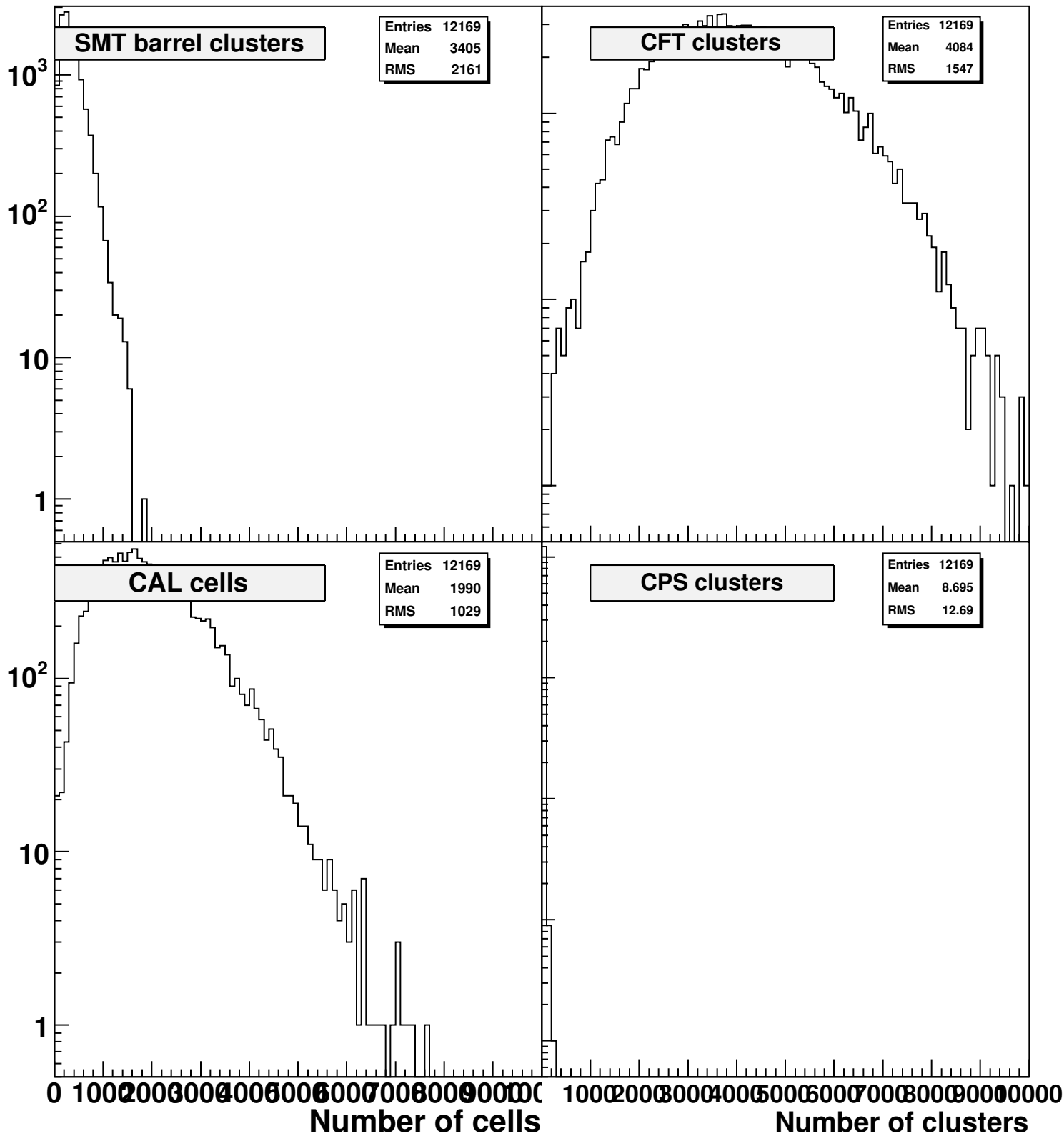
Jets (Cone R 0.7 (no cuts))

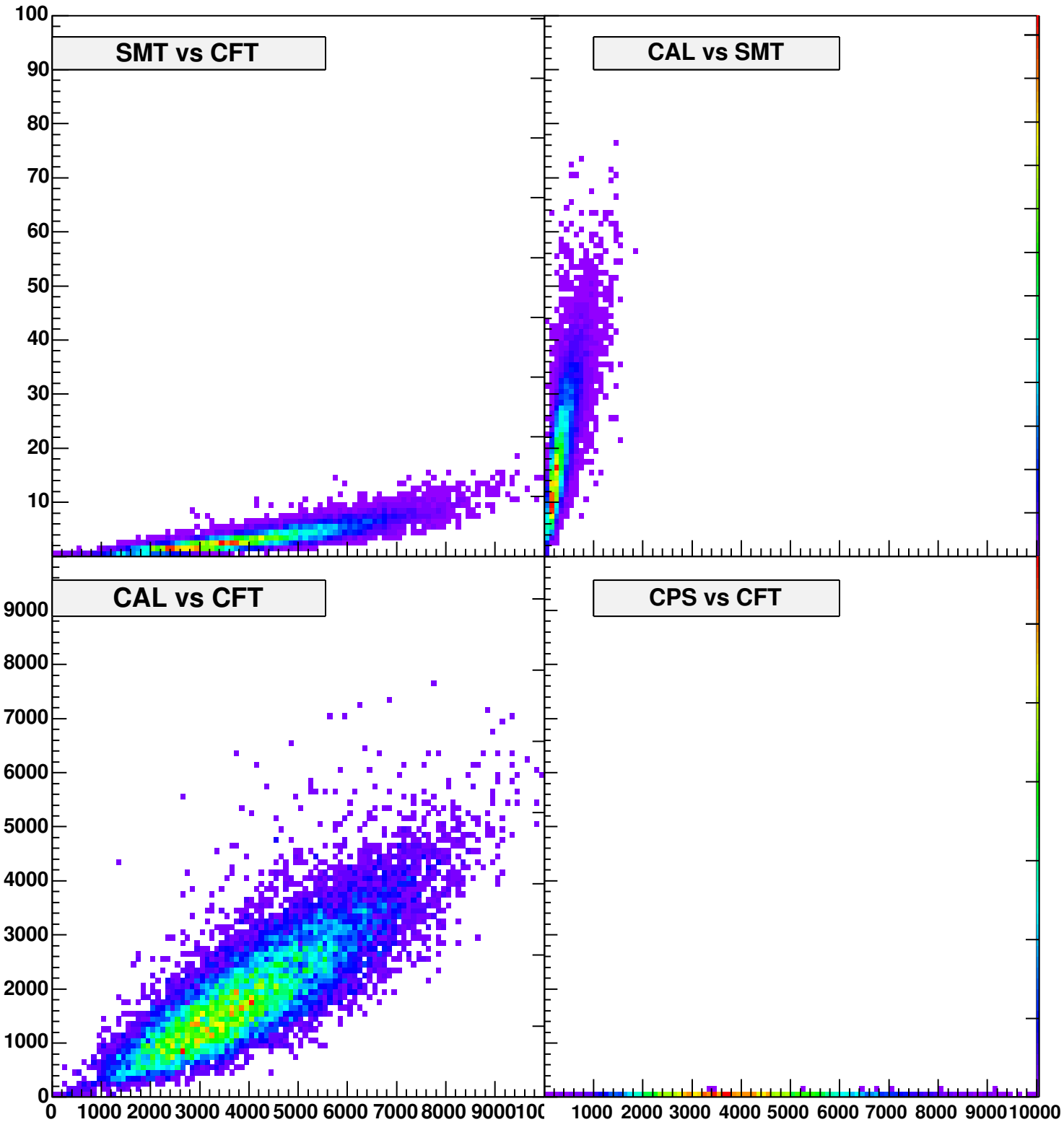


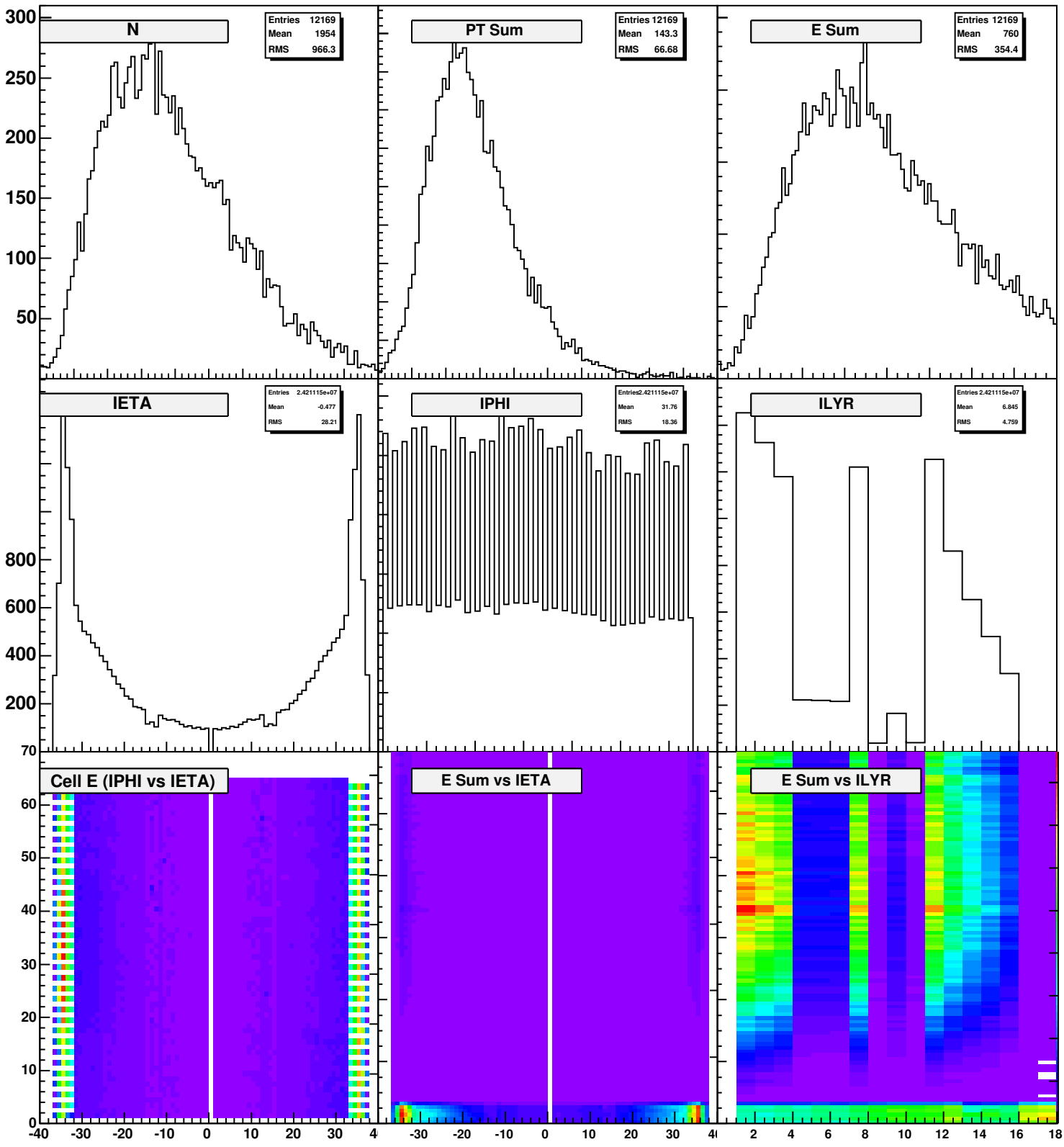
Jets (Cone R 0.7 (standard cuts))



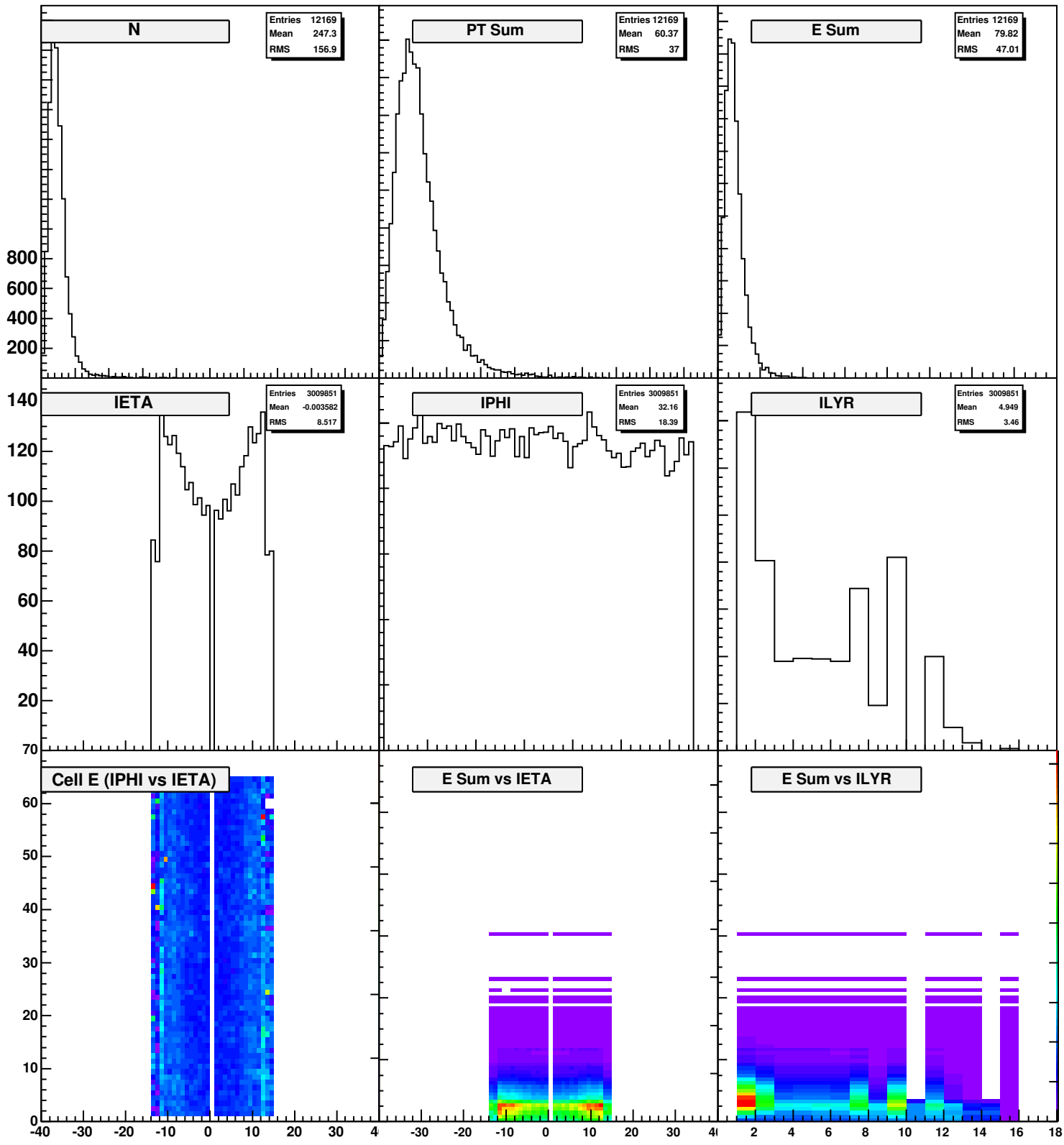
Jets (Cone R 0.7 (standard cuts, MET>30))


SMT barrel clusters
Entries 12169
Mean 3405
RMS 2161
CFT clusters
Entries 12169
Mean 4084
RMS 1547
CAL cells
Entries 12169
Mean 1990
RMS 1029
CPS clusters
Entries 12169
Mean 8.695
RMS 12.69
Number of cells
Number of clusters
Detector Occupancy (Detector)

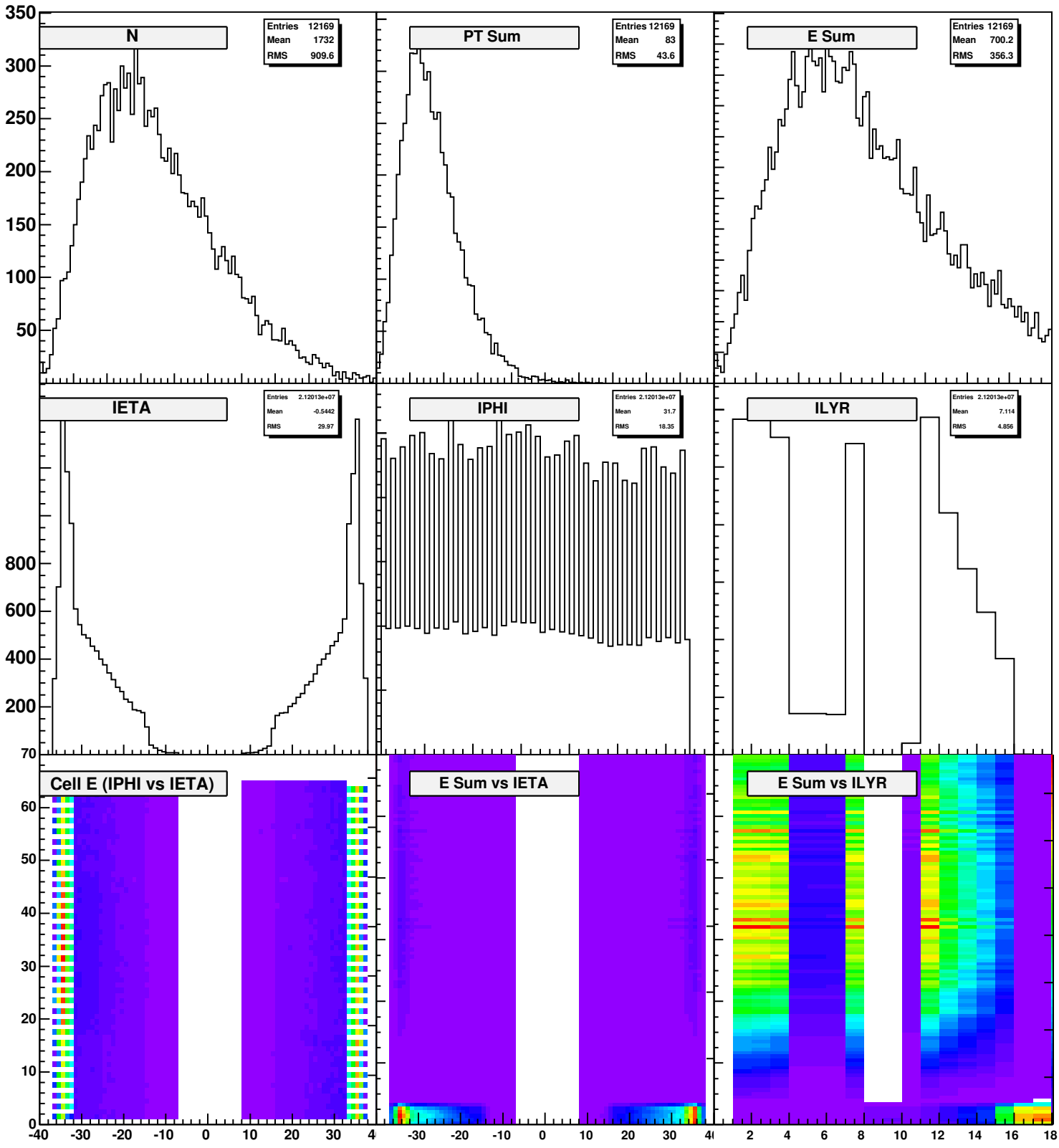

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
100
90
80
70
60
50
40
30
20
10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Detector Occupancy (Detector)



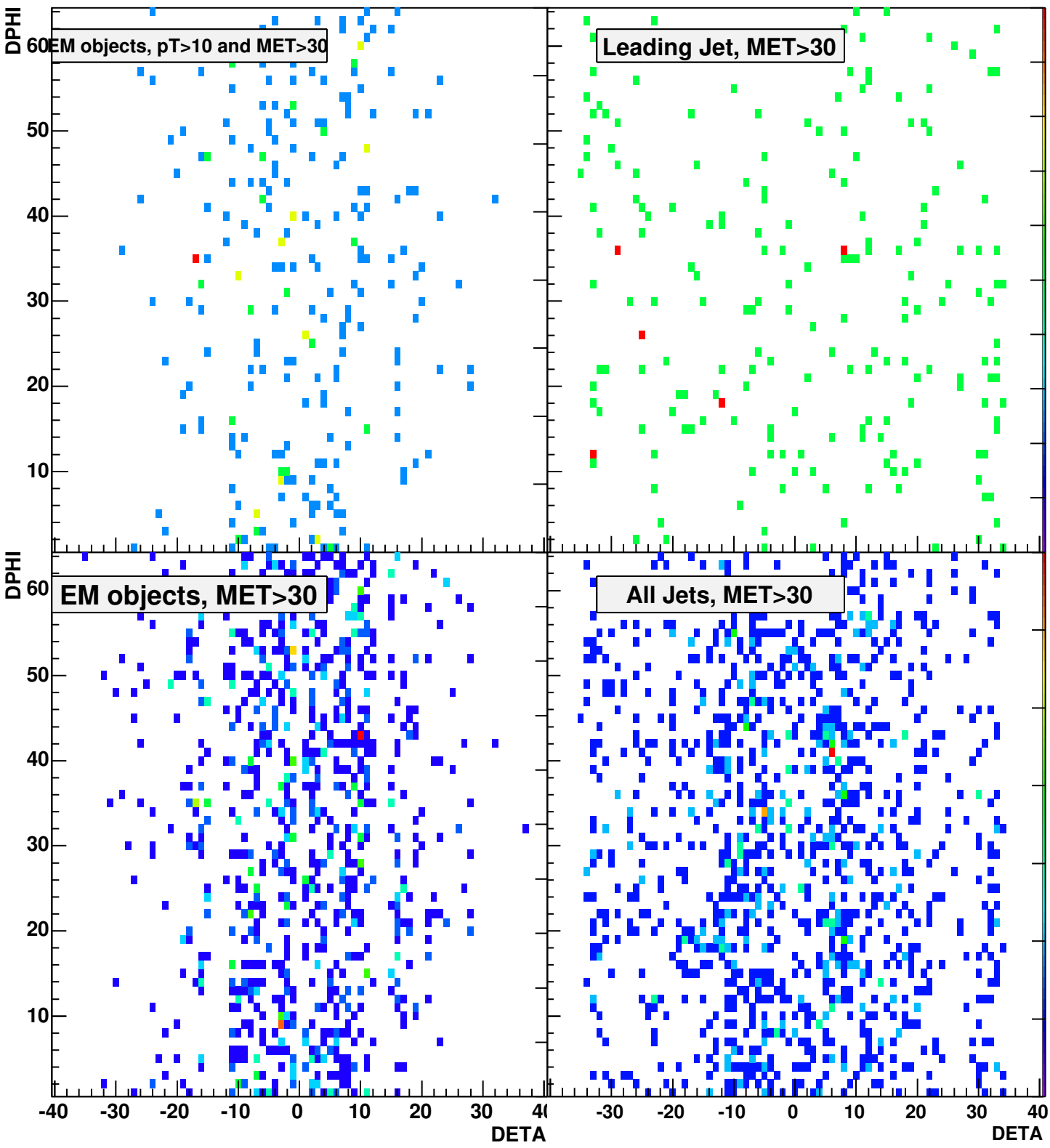
Calorimeter (All cells)



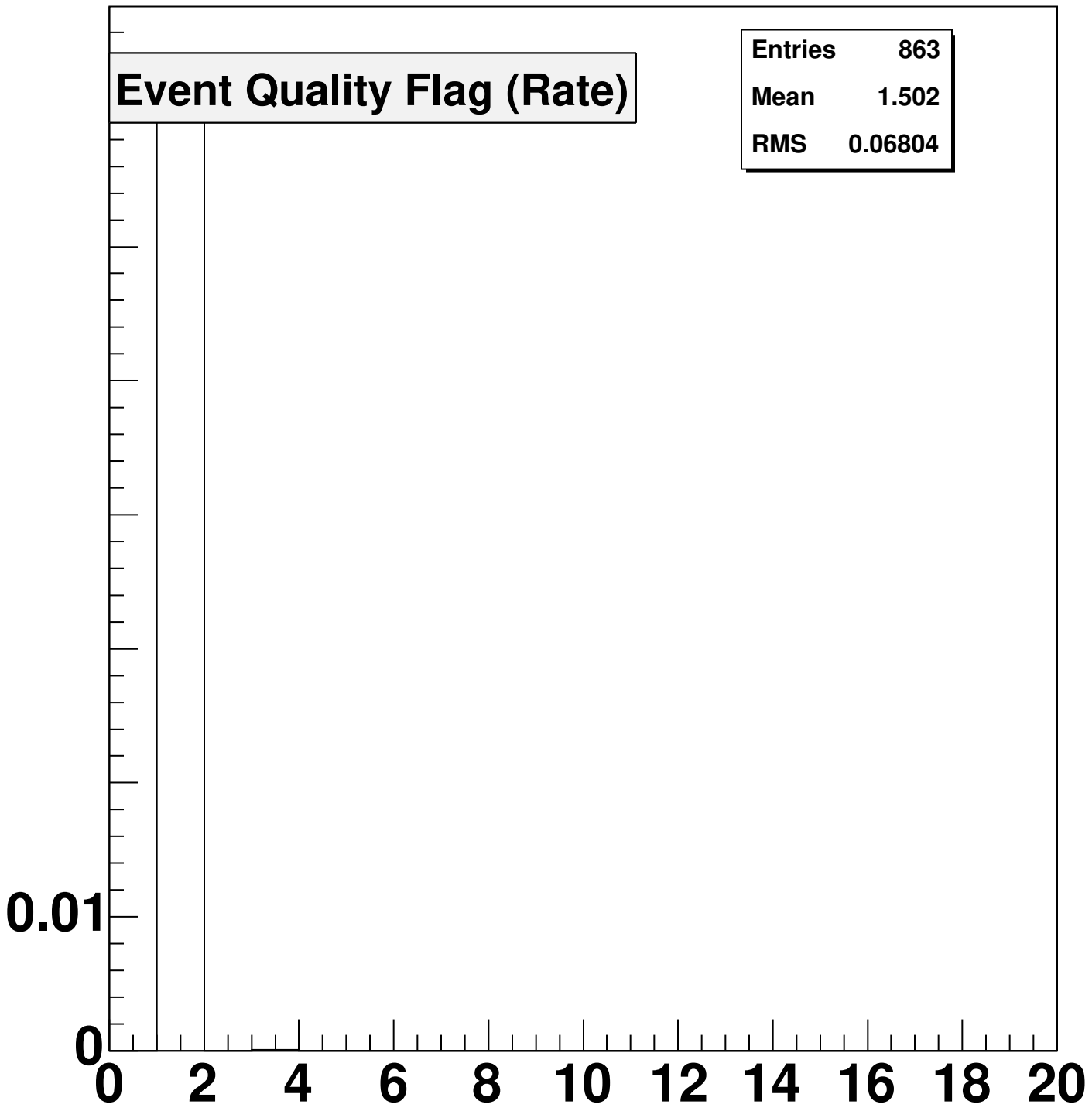
Calorimeter (All CC cells)

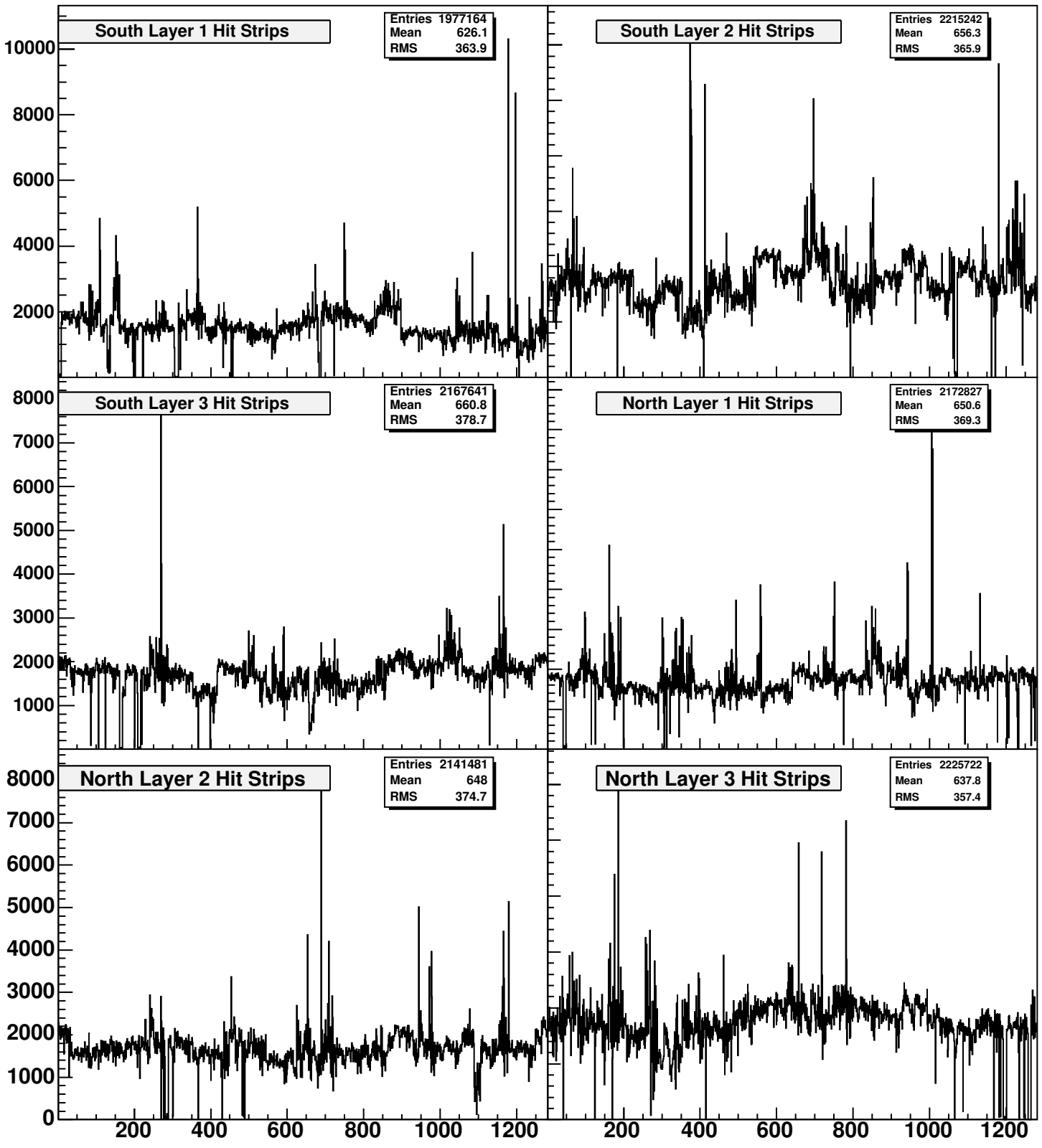


Calorimeter (All EC cells)

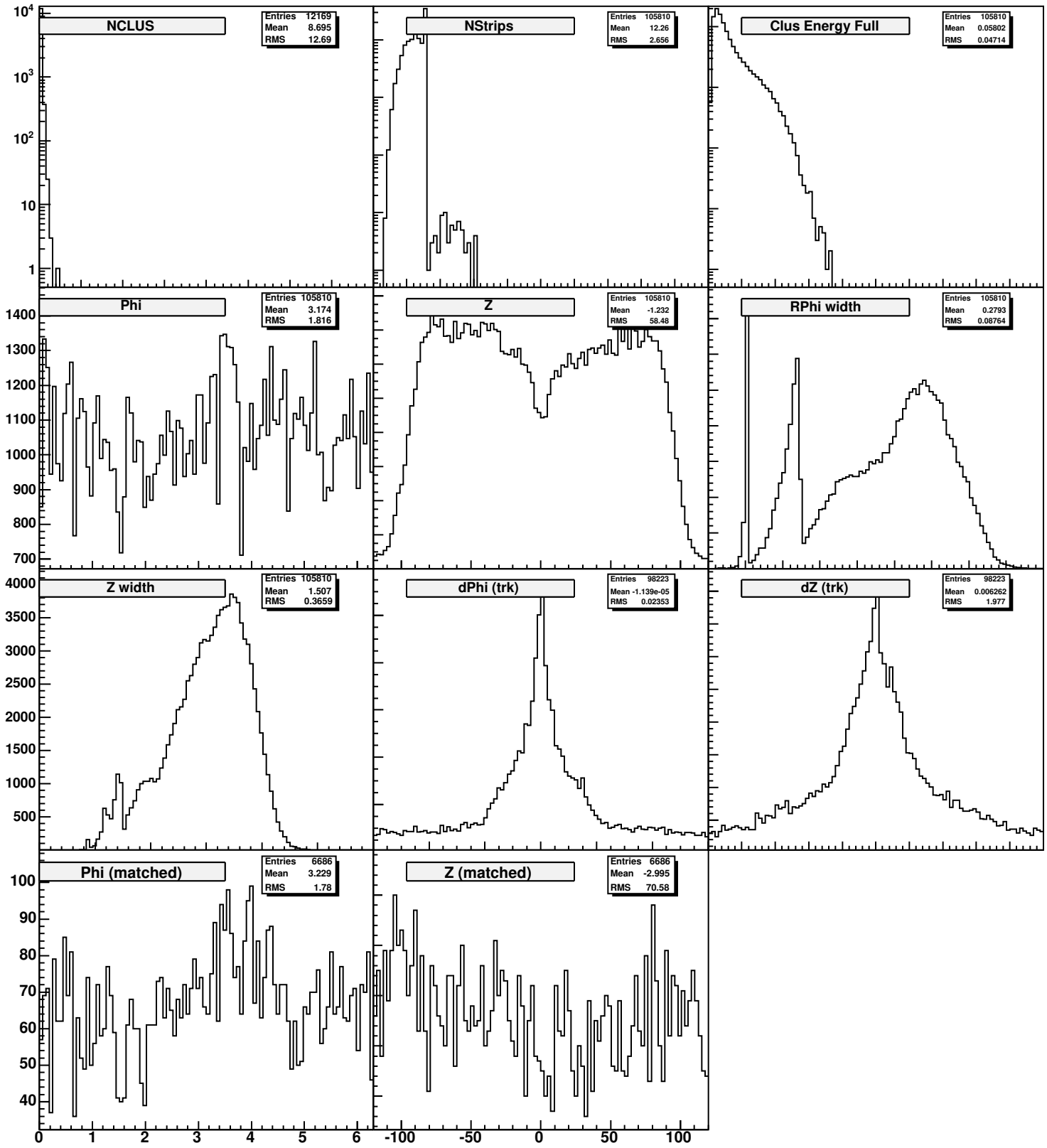


Cal Objects with MET>30 (All cells)

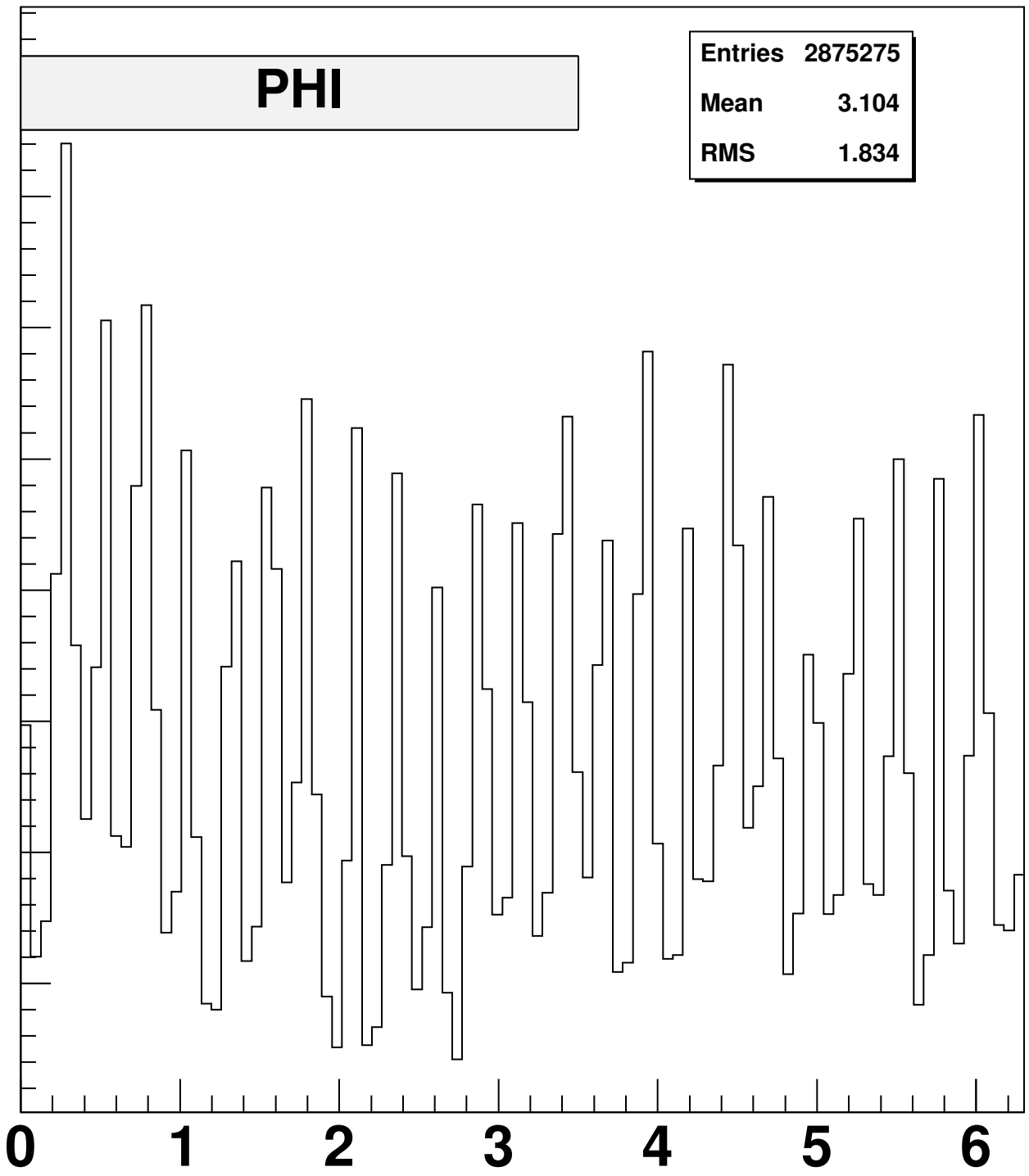

Event Quality Flag (Rate)
Entries 863
Mean 1.502
RMS 0.06804
0.01
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

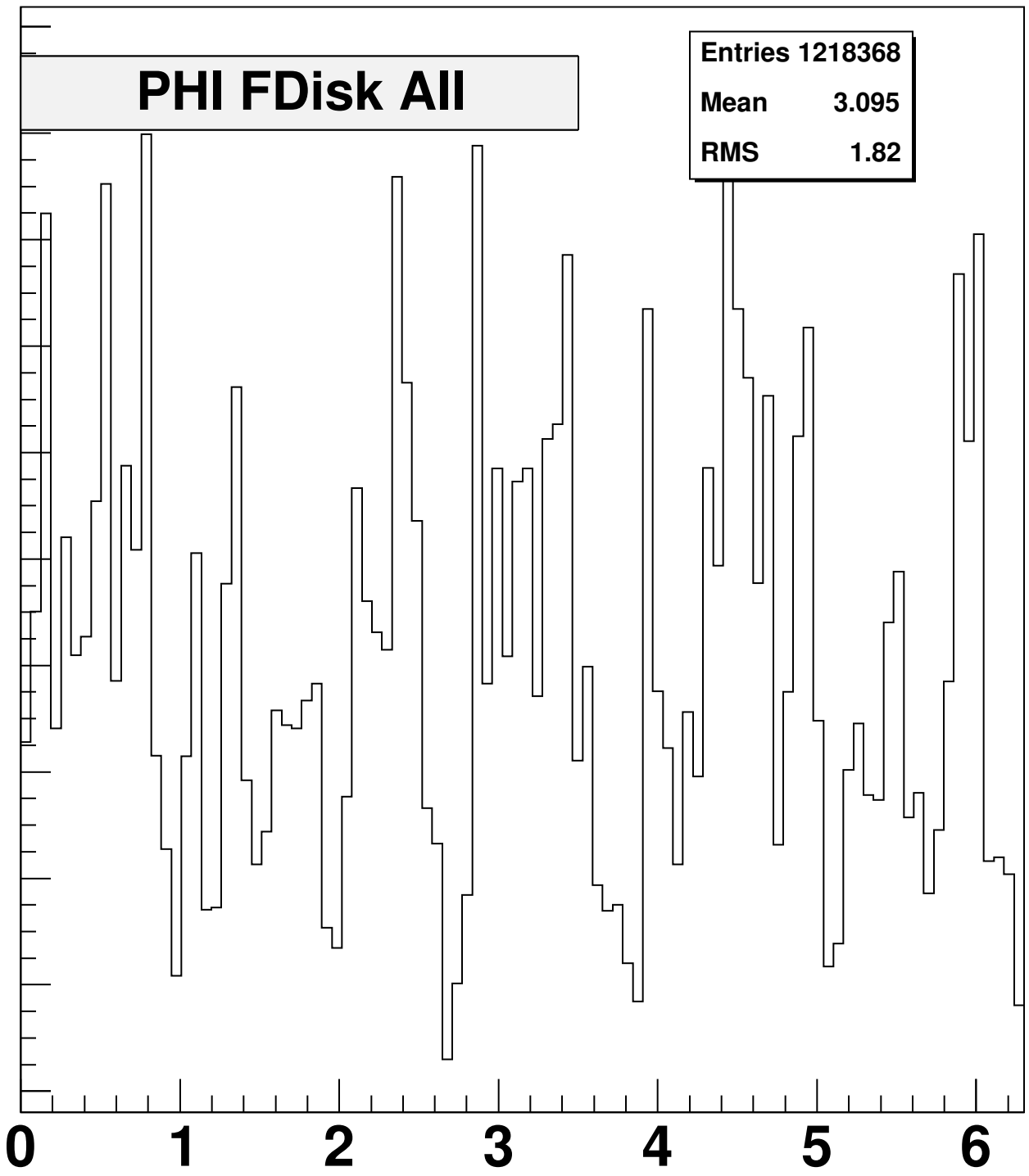


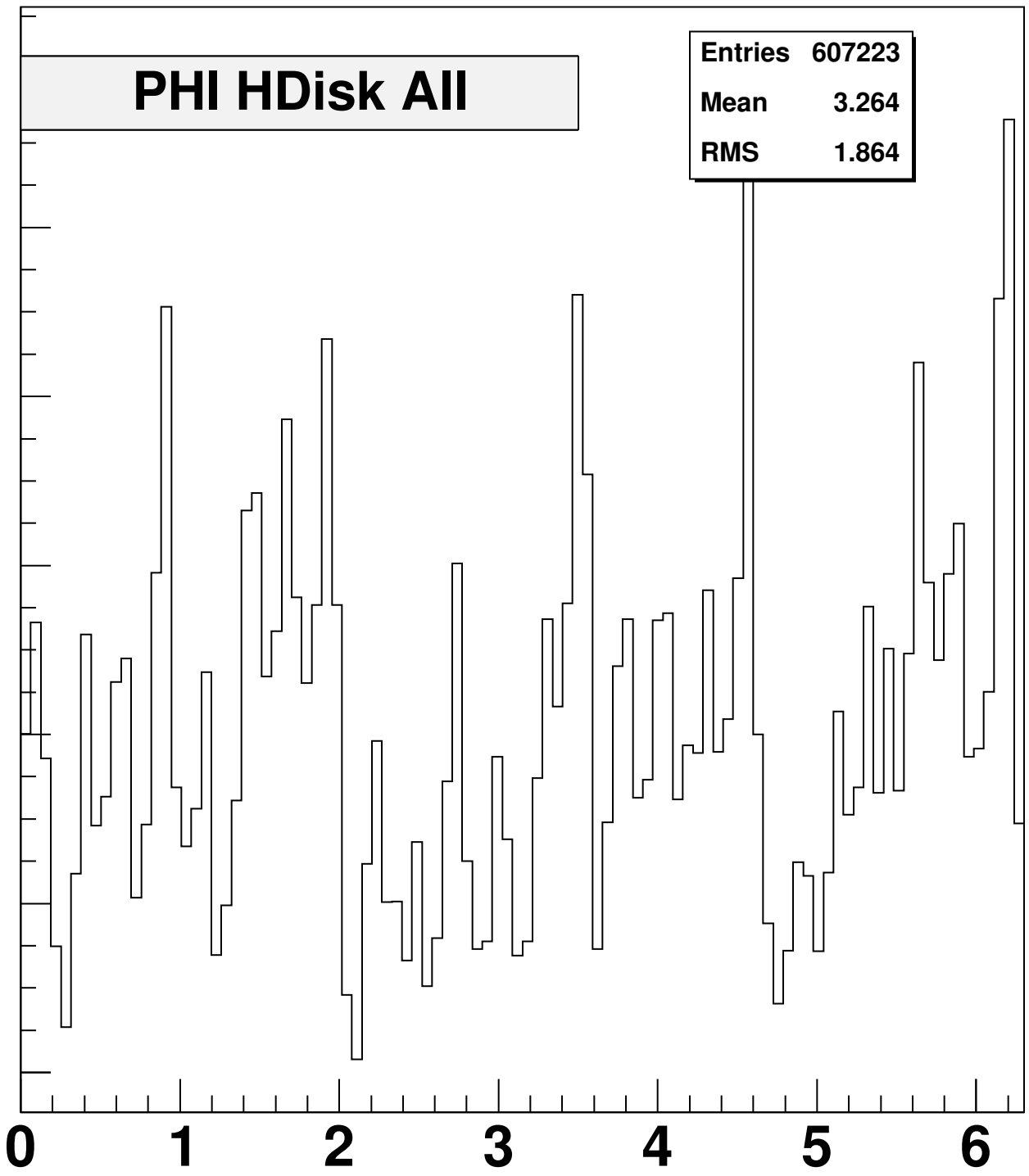
CPS Hit Strips (All Clusters)

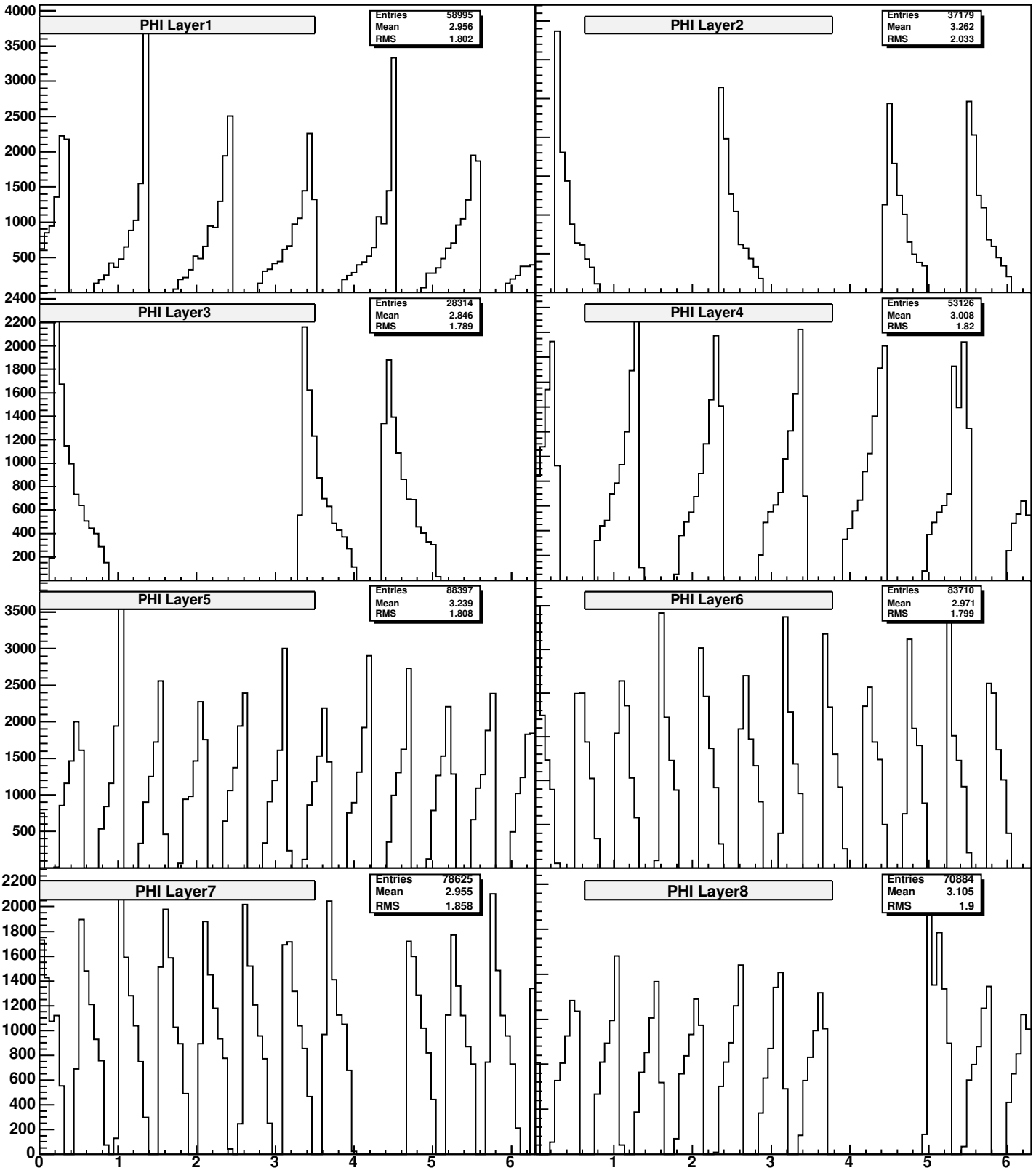


CPS Clusters (All Clusters)

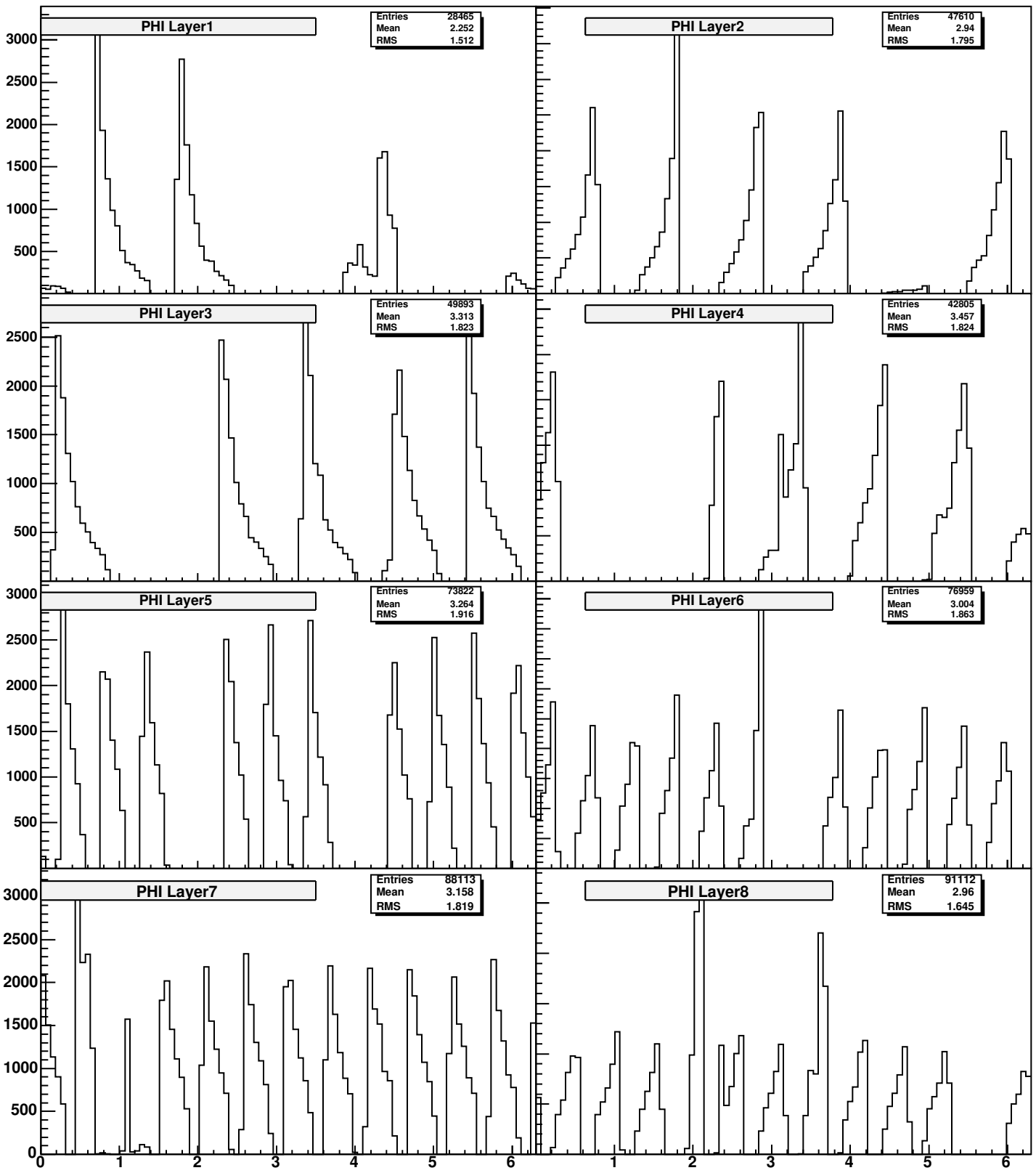

PHI
Entries 2875275
Mean 3.104
RMS 1.834
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 1218368
Mean 3.095
RMS 1.82
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

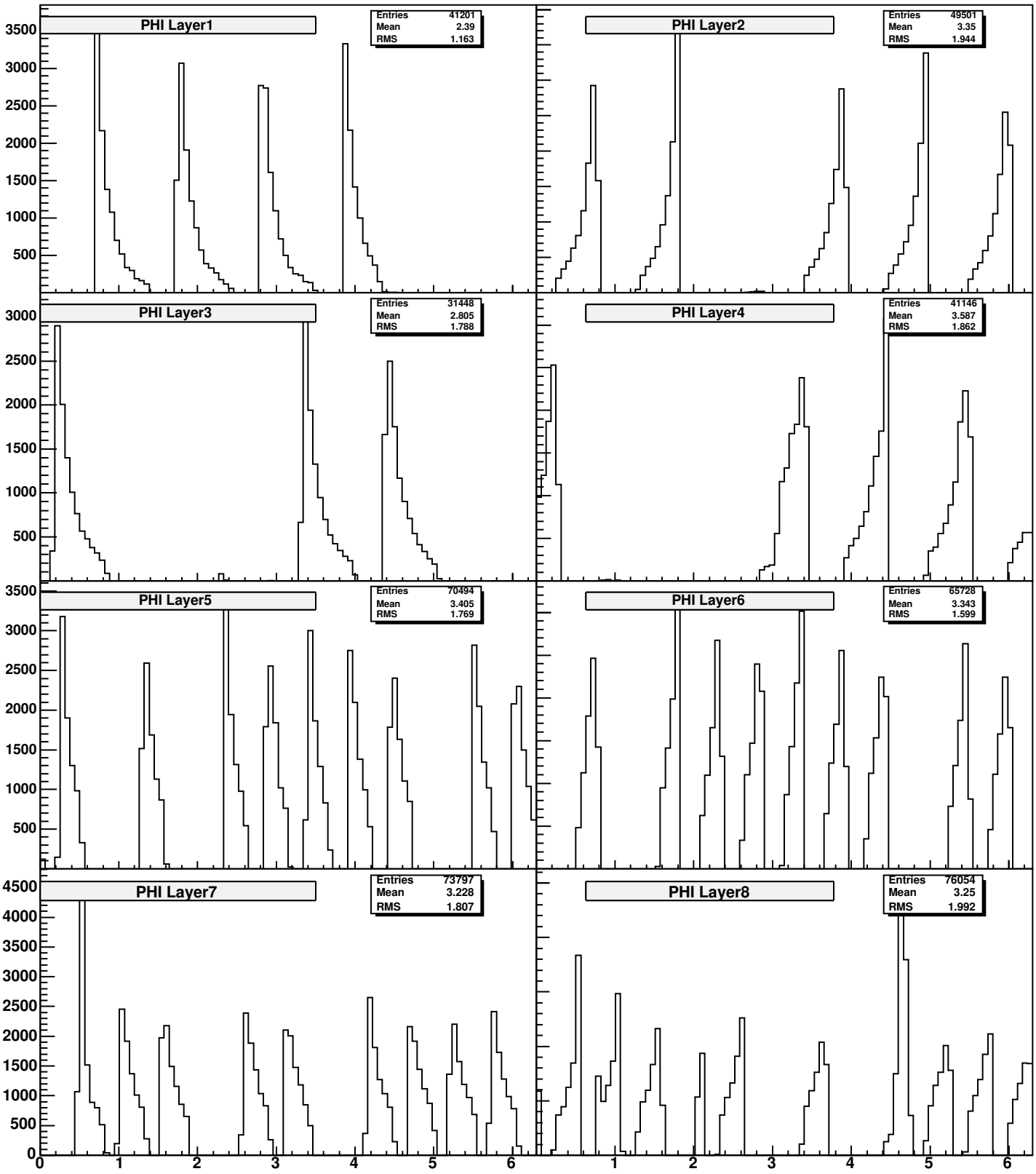

PHI HDisk All
Entries 607223
Mean 3.264
RMS 1.864
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



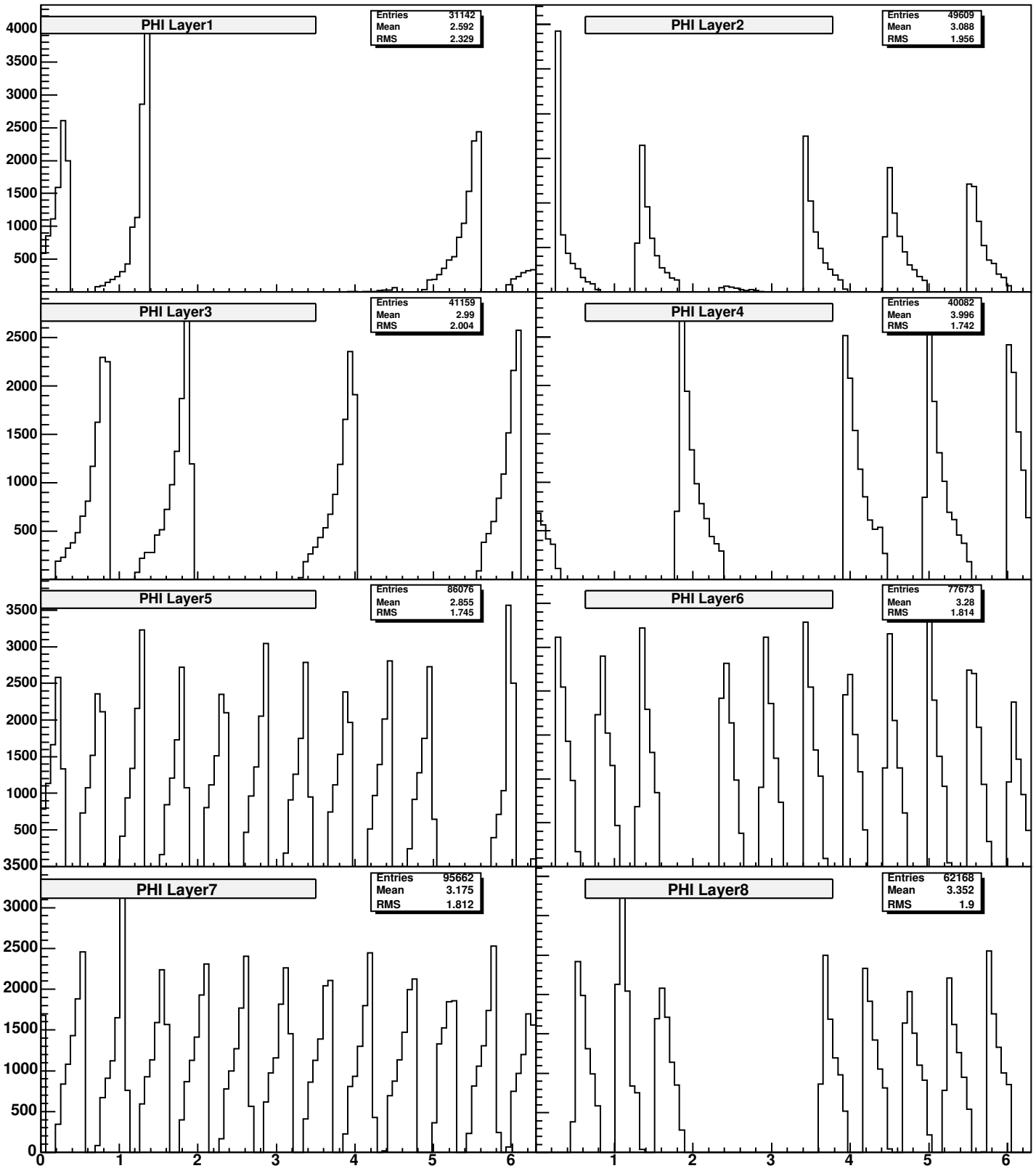
SmtClusters (ClustrBar1)



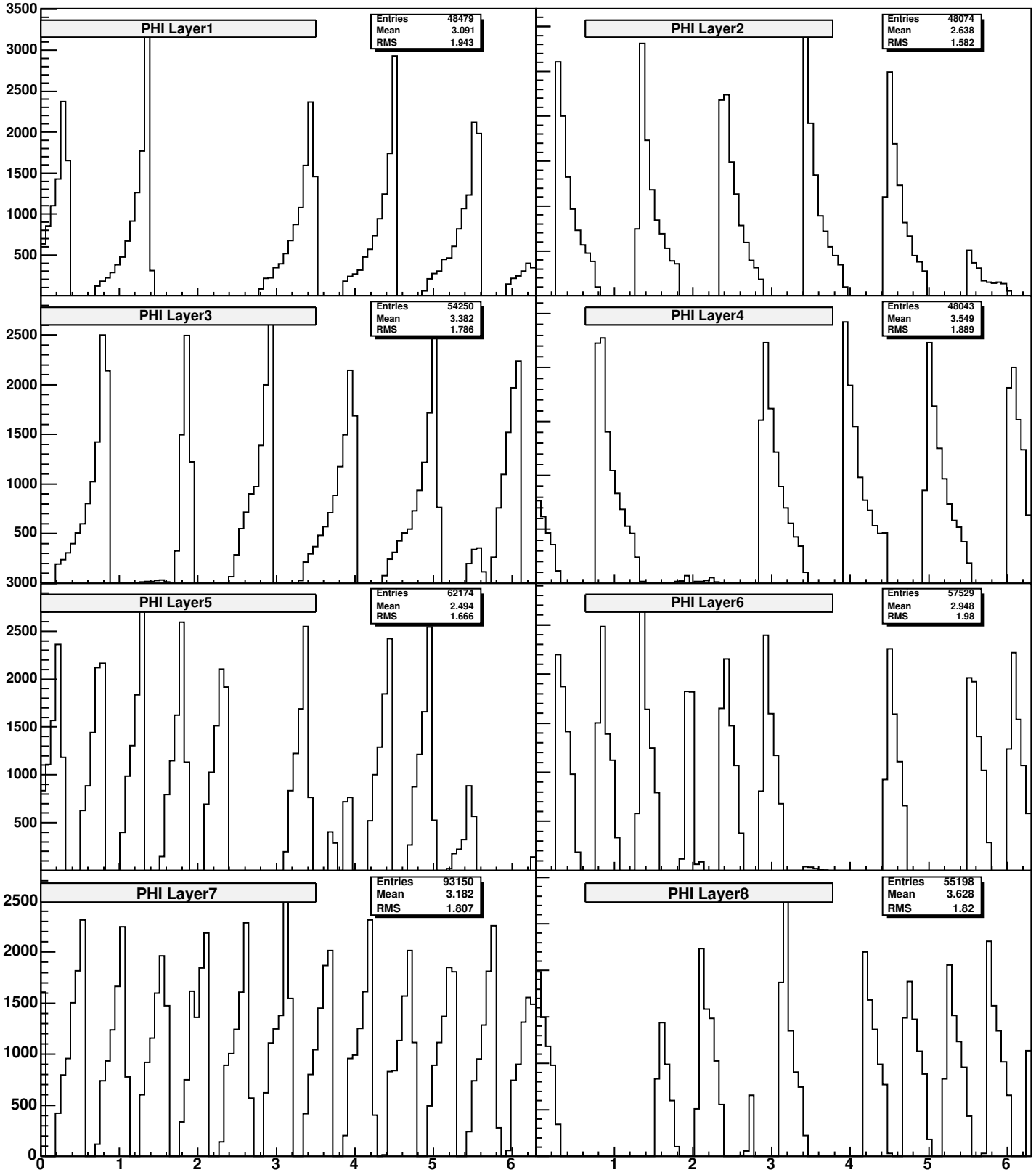
SmtClusters (ClustrBar2)



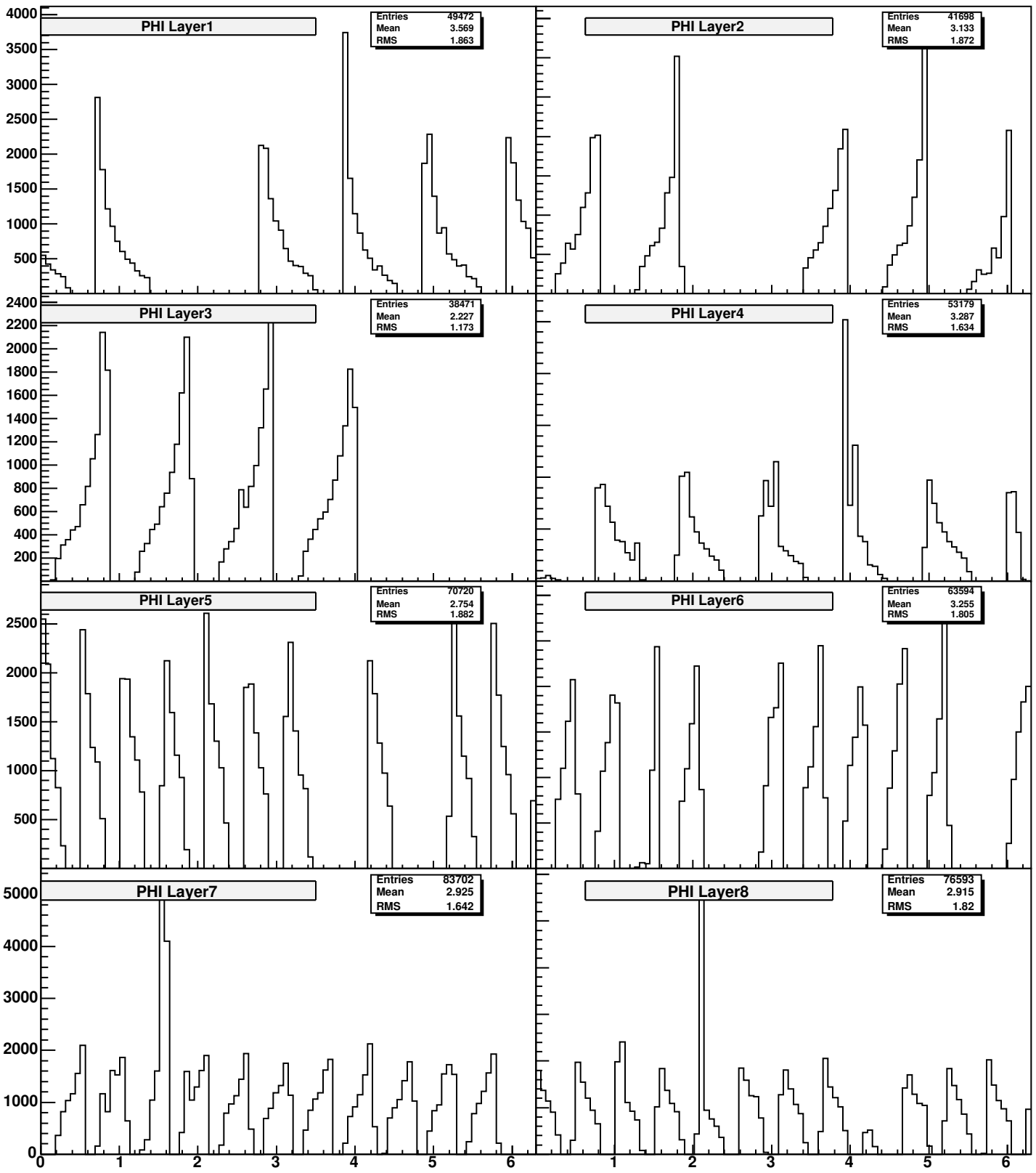
SmtClusters (ClustrBar3)



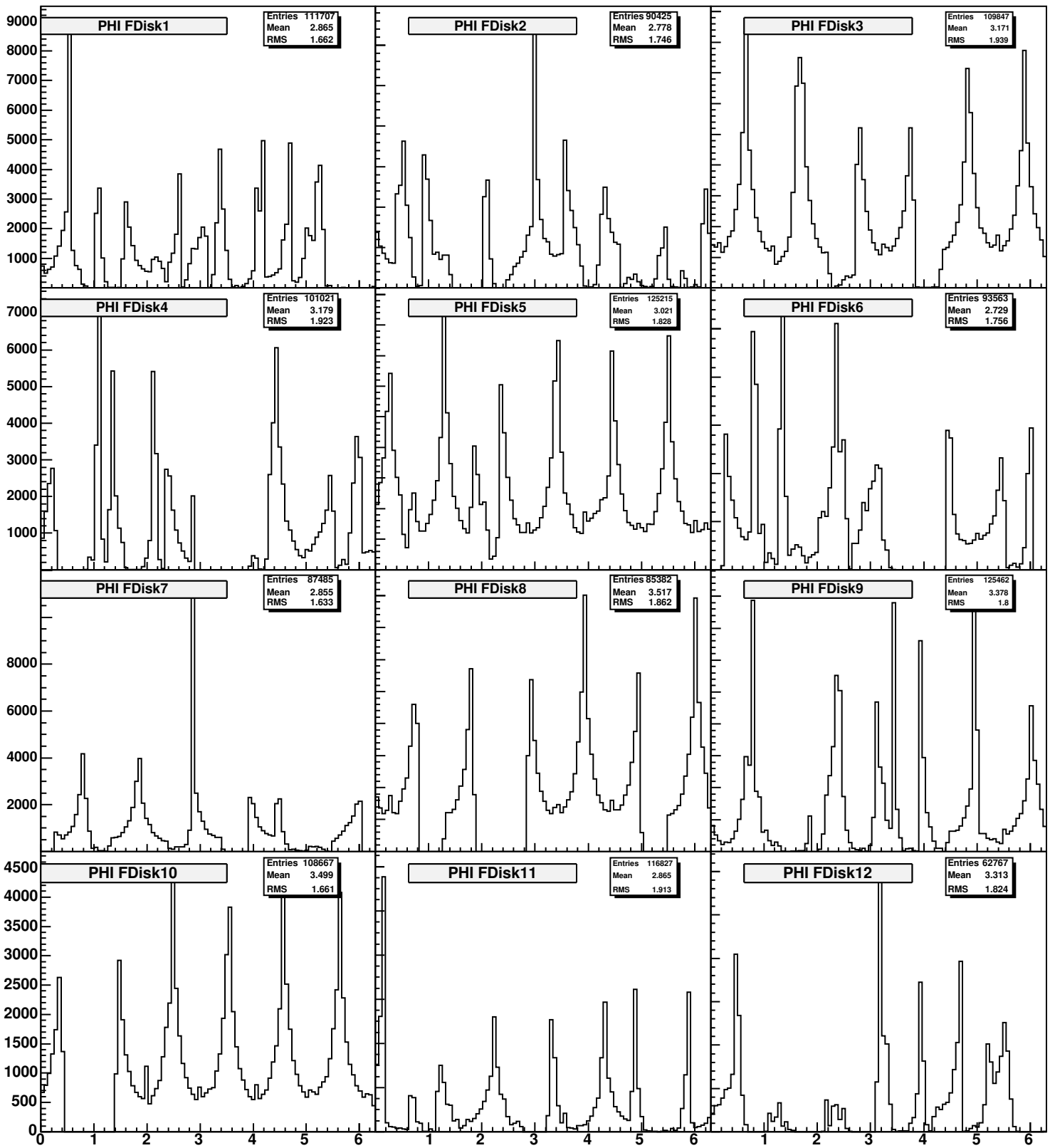
SmtClusters (ClustrBar4)



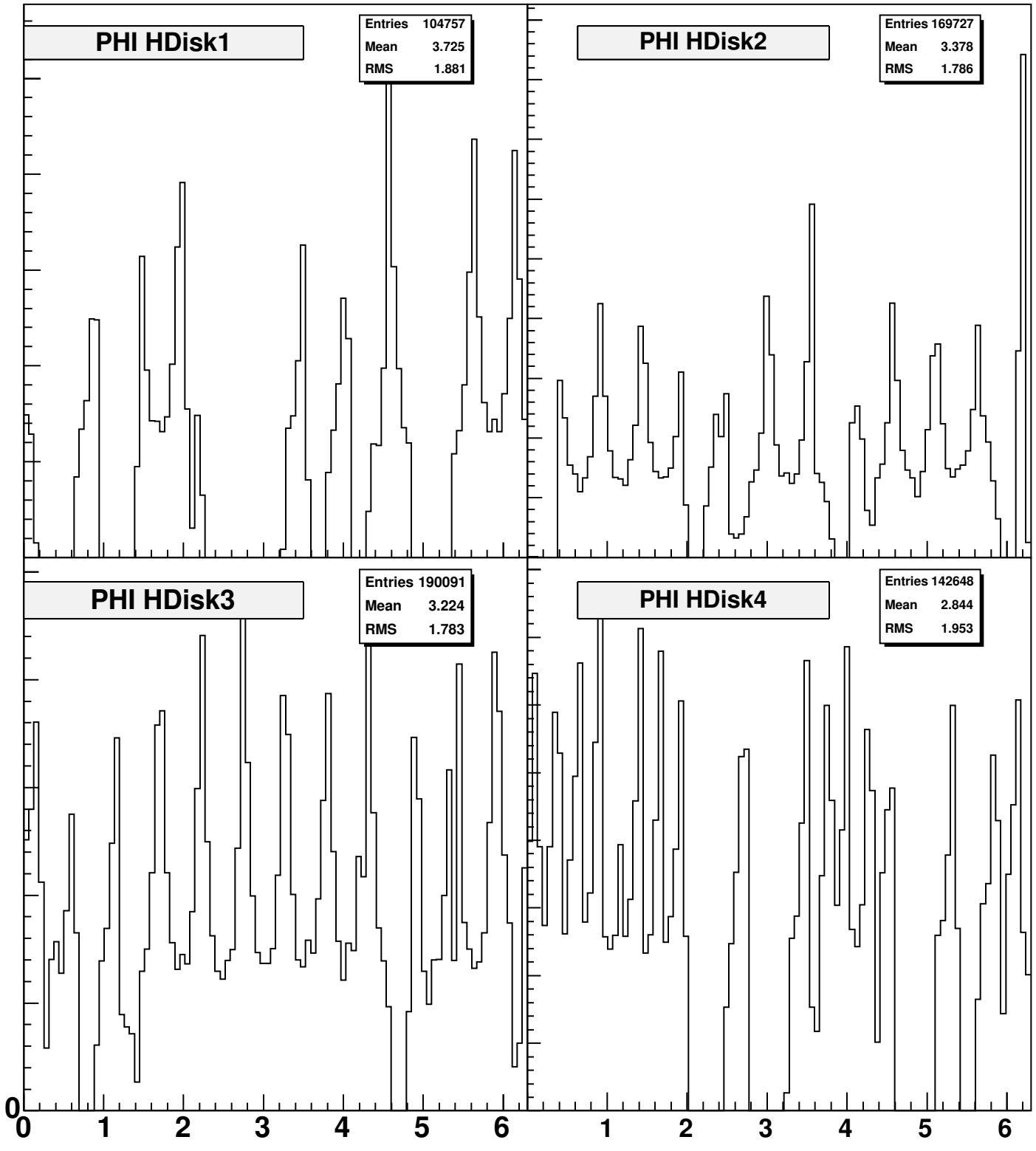
SmtClusters (ClustrBar5)

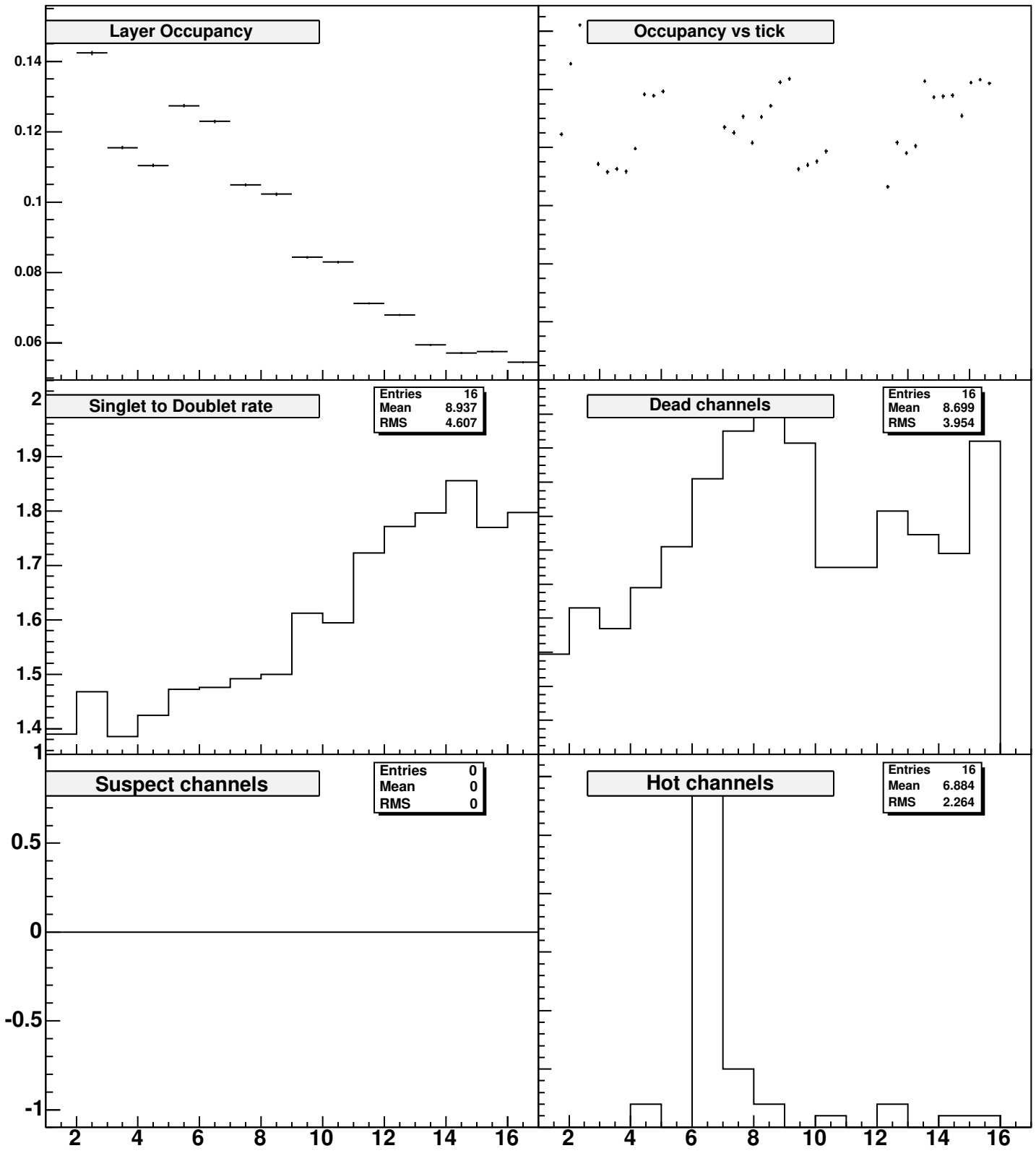


SmtClusters (ClustrBar6)

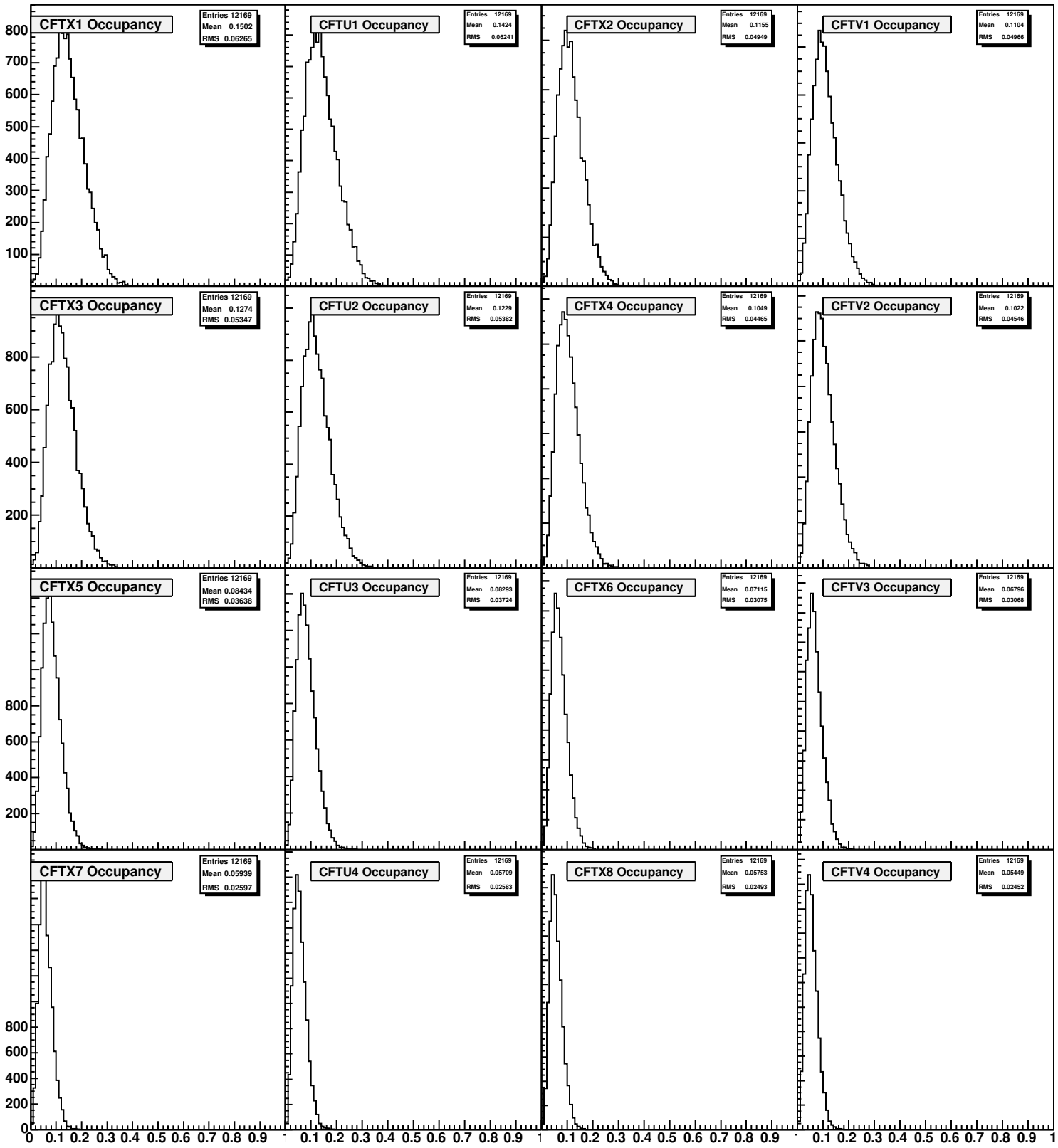


SmtClusters (FDiskClusters)

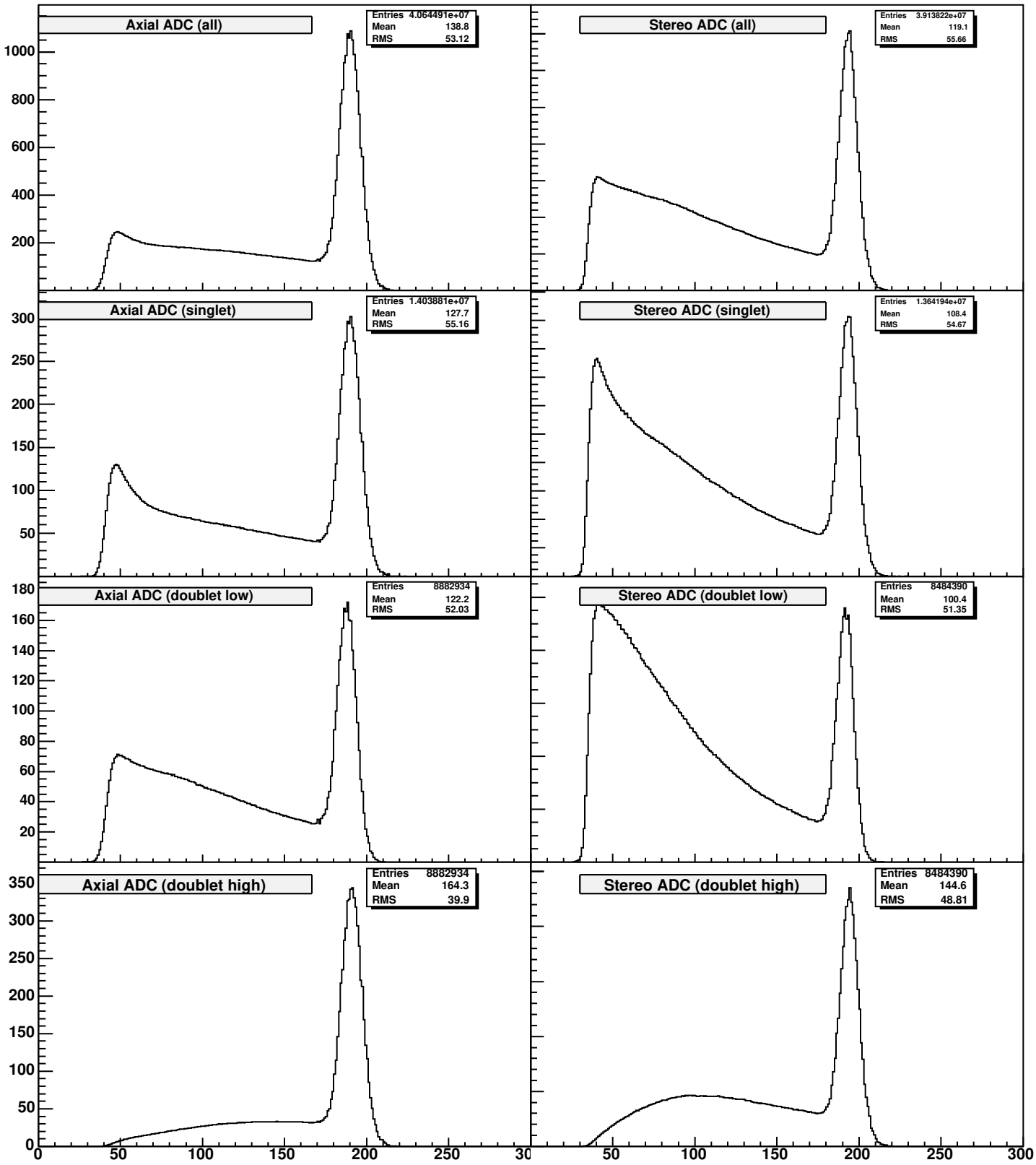

PHI HDisk1
Entries 104757
Mean 3.725
RMS 1.881
PHI HDisk2
Entries 169727
Mean 3.378
RMS 1.786
PHI HDisk3
Entries 190091
Mean 3.224
RMS 1.783
PHI HDisk4
Entries 142648
Mean 2.844
RMS 1.953
0
0 1 2 3 4 5 6
1 2 3 4 5 6
SmtClusters (HDiskClusters)



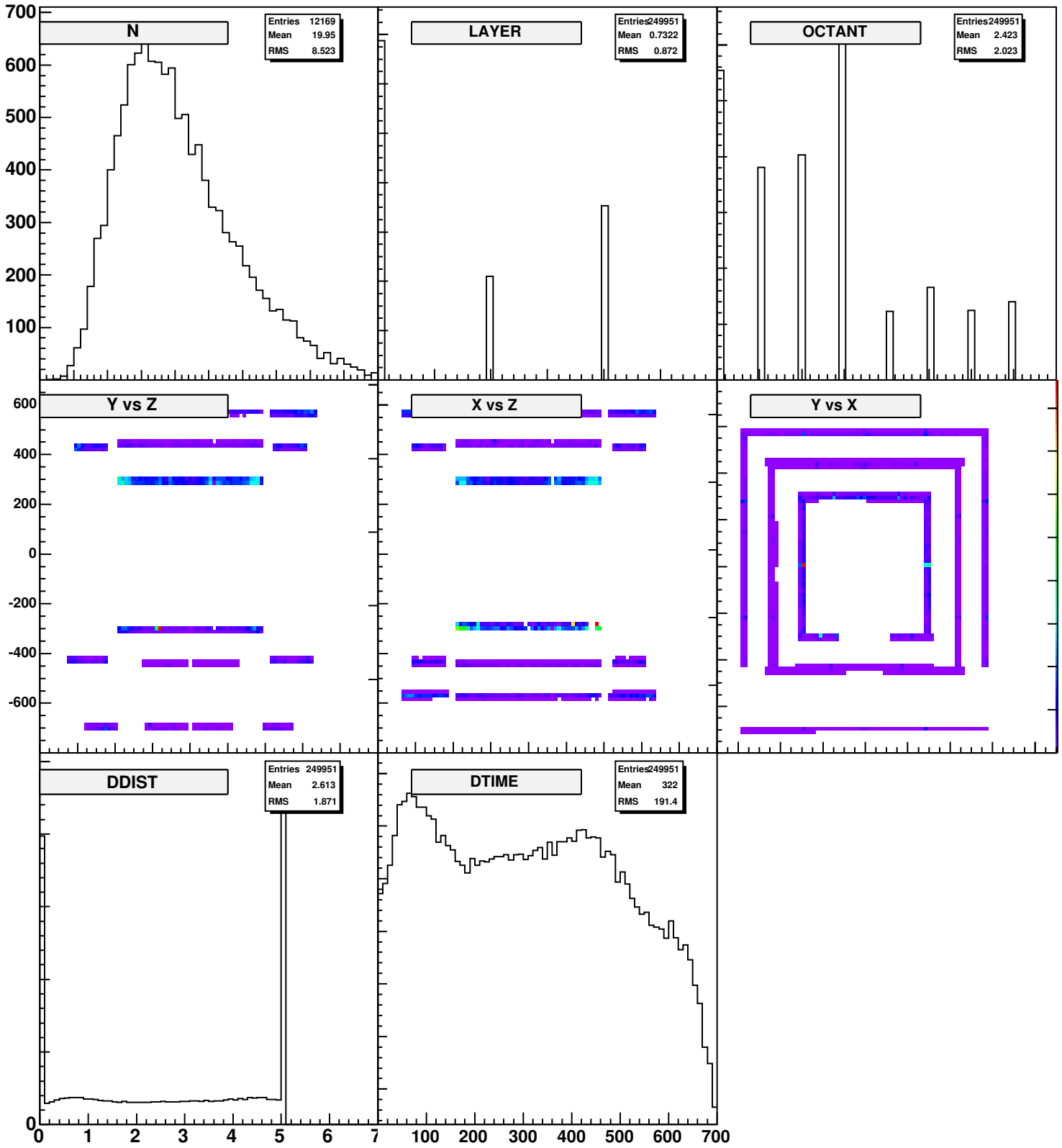
CFT Summary (All Clusters)



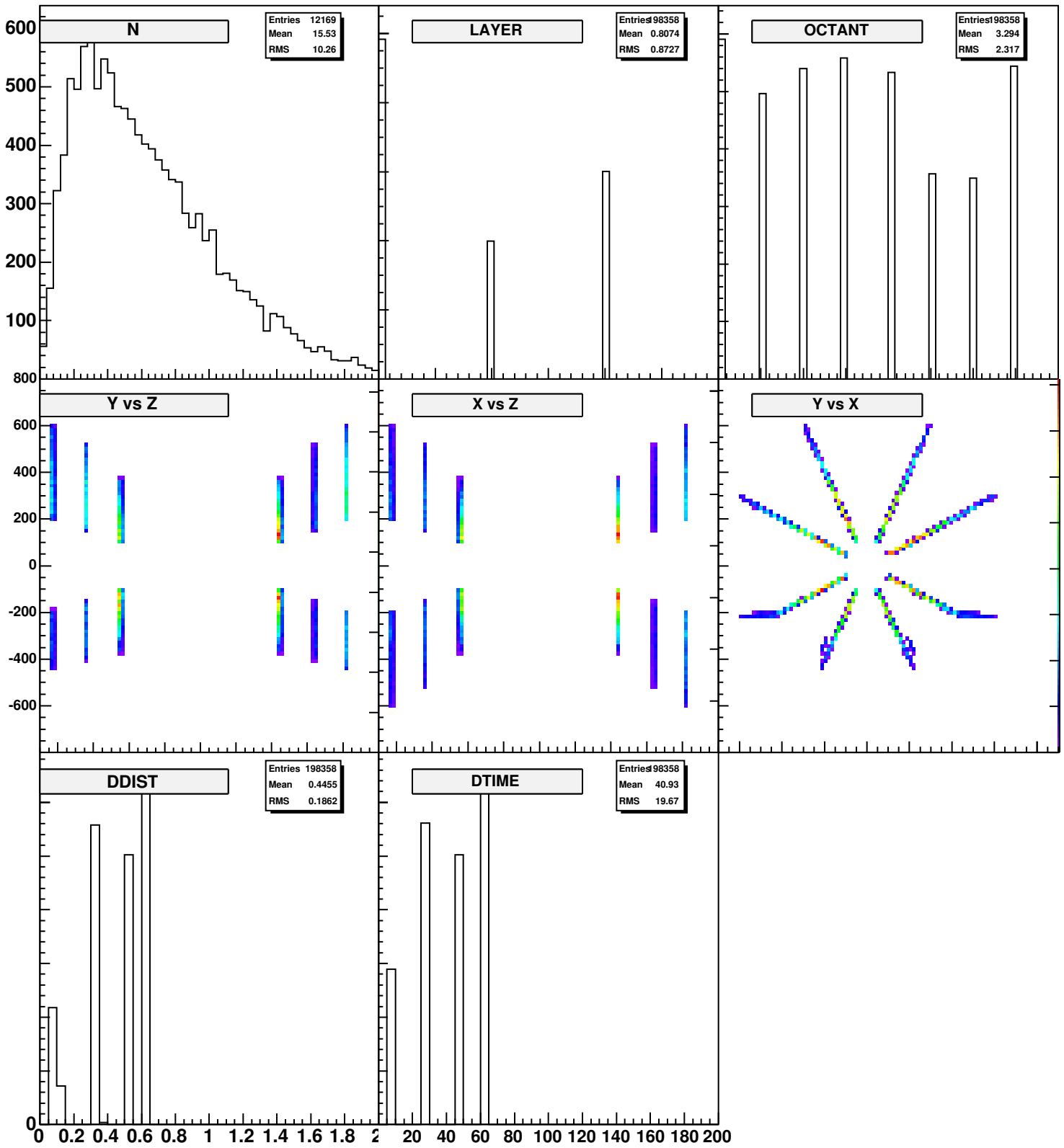
CFT Occupancy (All Clusters)



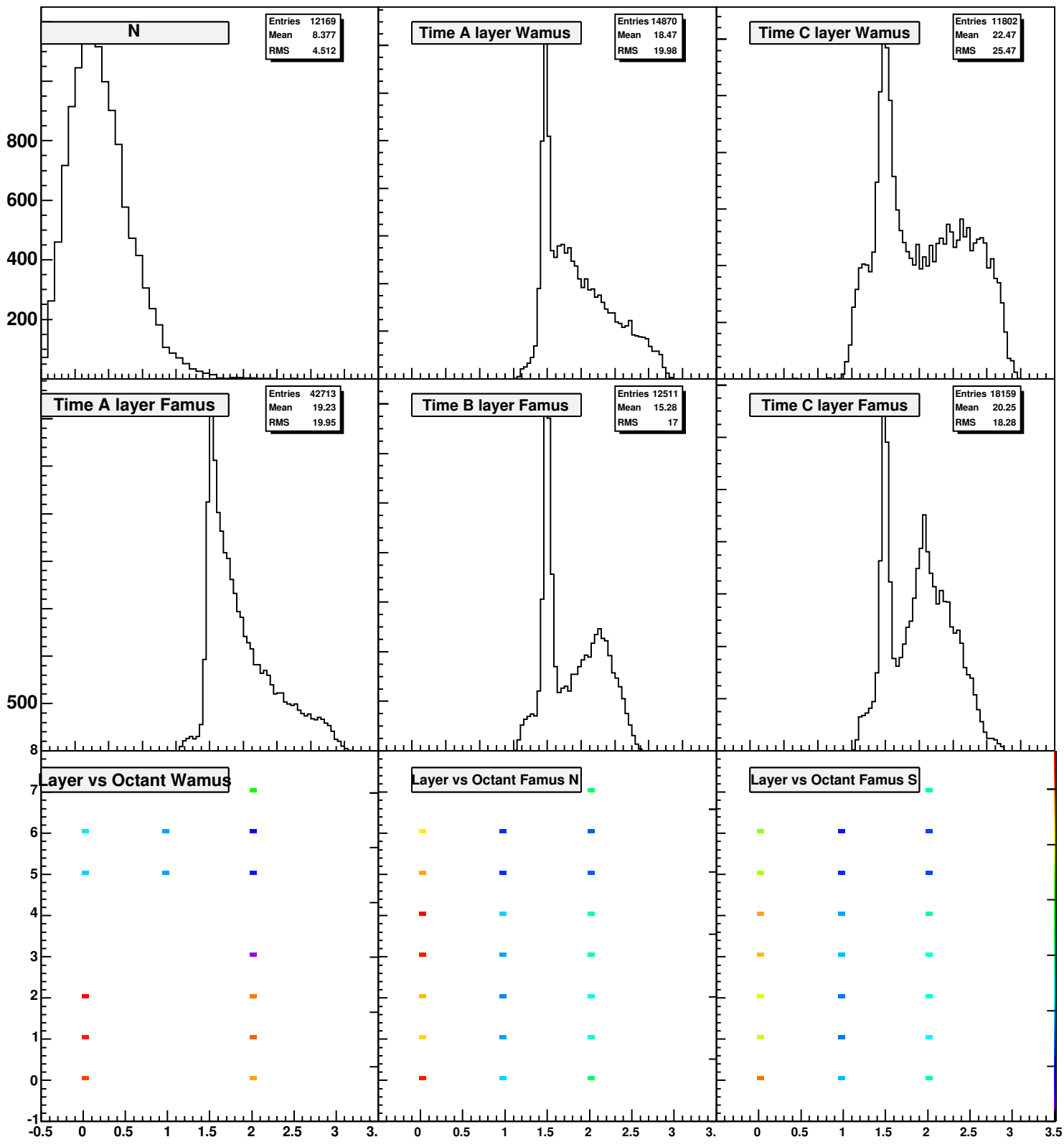
CFT ADC Summary (All Clusters)


N
Entries 12169
Mean 19.95
RMS 8.523
LAYER
Entries 249951
Mean 0.7322
RMS 0.872
OCTANT
Entries 249951
Mean 2.423
RMS 2.023
Y vs Z
X vs Z
Y vs X
DDIST
Entries 249951
Mean 2.613
RMS 1.871
DTIME
Entries 249951
Mean 322
RMS 191.4

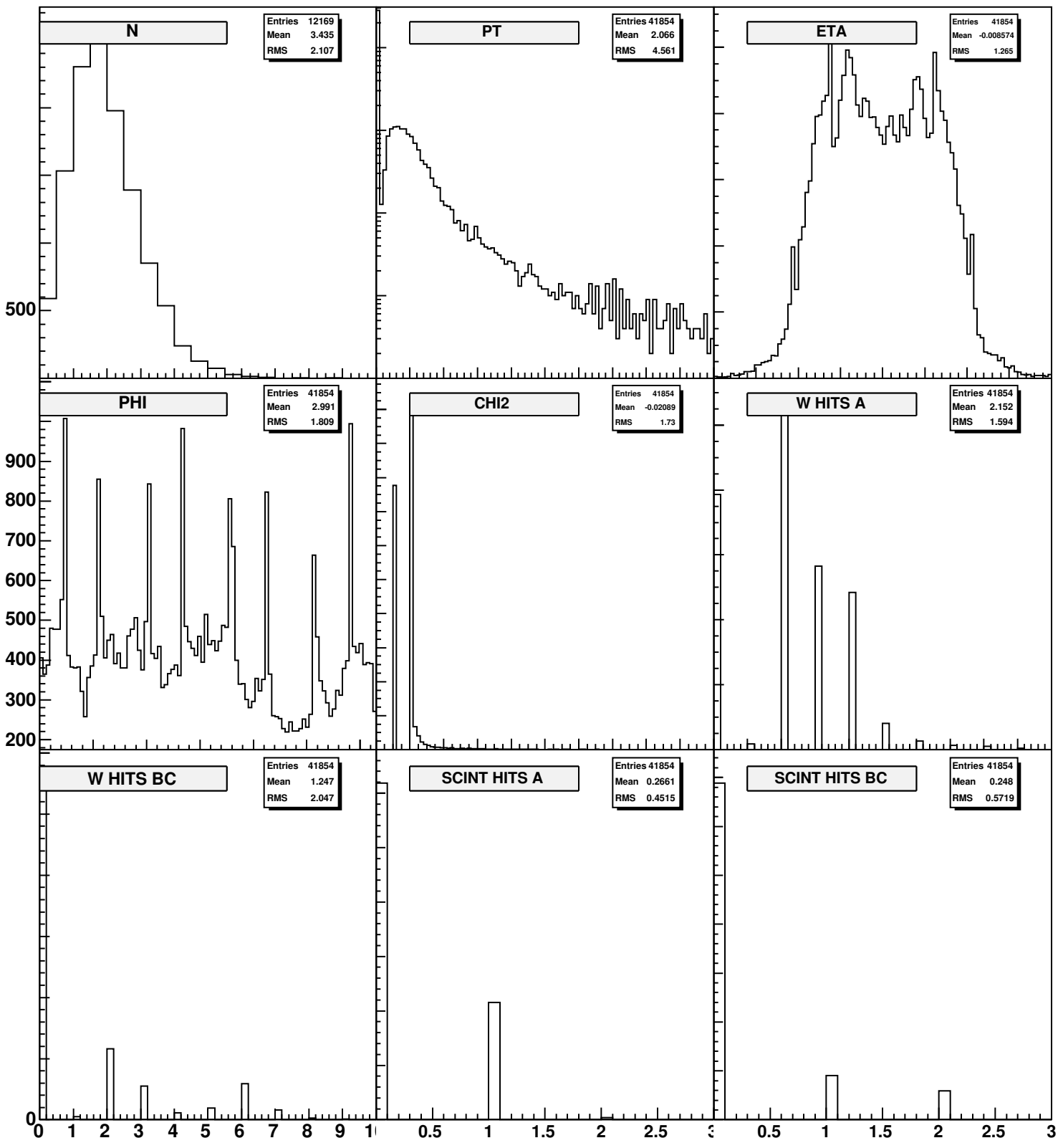
MuonPDT (All)


N
Entries 12169
Mean 15.53
RMS 10.26
LAYER
Entries 198358
Mean 0.8074
RMS 0.8727
OCTANT
Entries 198358
Mean 3.294
RMS 2.317
Y vs Z
X vs Z
Y vs X
DDIST
Entries 198358
Mean 0.4455
RMS 0.1862
DTIME
Entries 198358
Mean 40.93
RMS 19.67

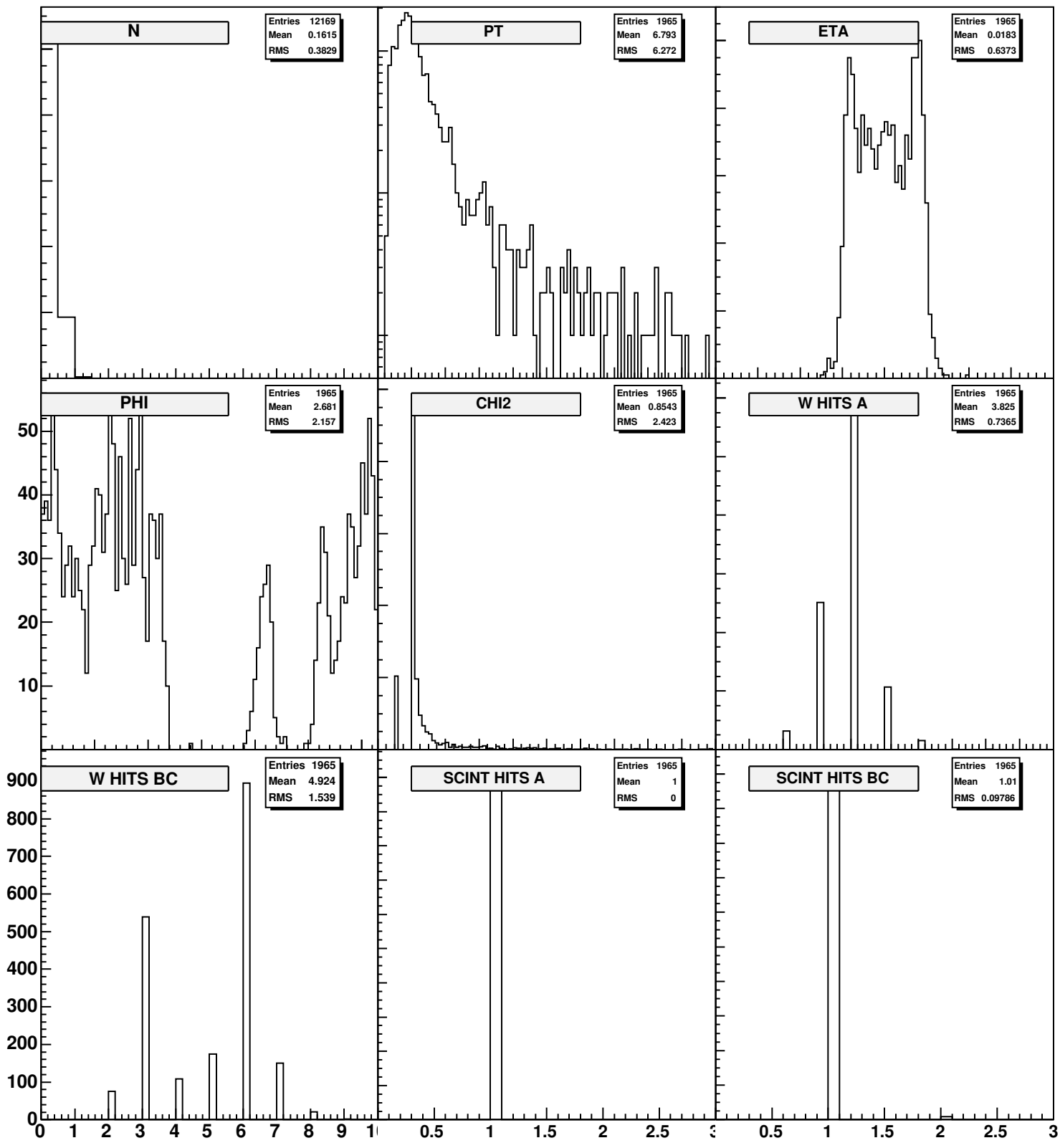
MuonMDT (All)


N
Entries 12169
Mean 8.377
RMS 4.512
Time A layer Wamus
Entries 14870
Mean 18.47
RMS 19.98
Time C layer Wamus
Entries 11802
Mean 22.47
RMS 25.47
Time A layer Famus
Entries 42713
Mean 19.23
RMS 19.95
Time B layer Famus
Entries 12511
Mean 15.28
RMS 17
Time C layer Famus
Entries 18159
Mean 20.25
RMS 18.28
Layer vs Octant Wamus
Layer vs Octant Famus N
Layer vs Octant Famus S

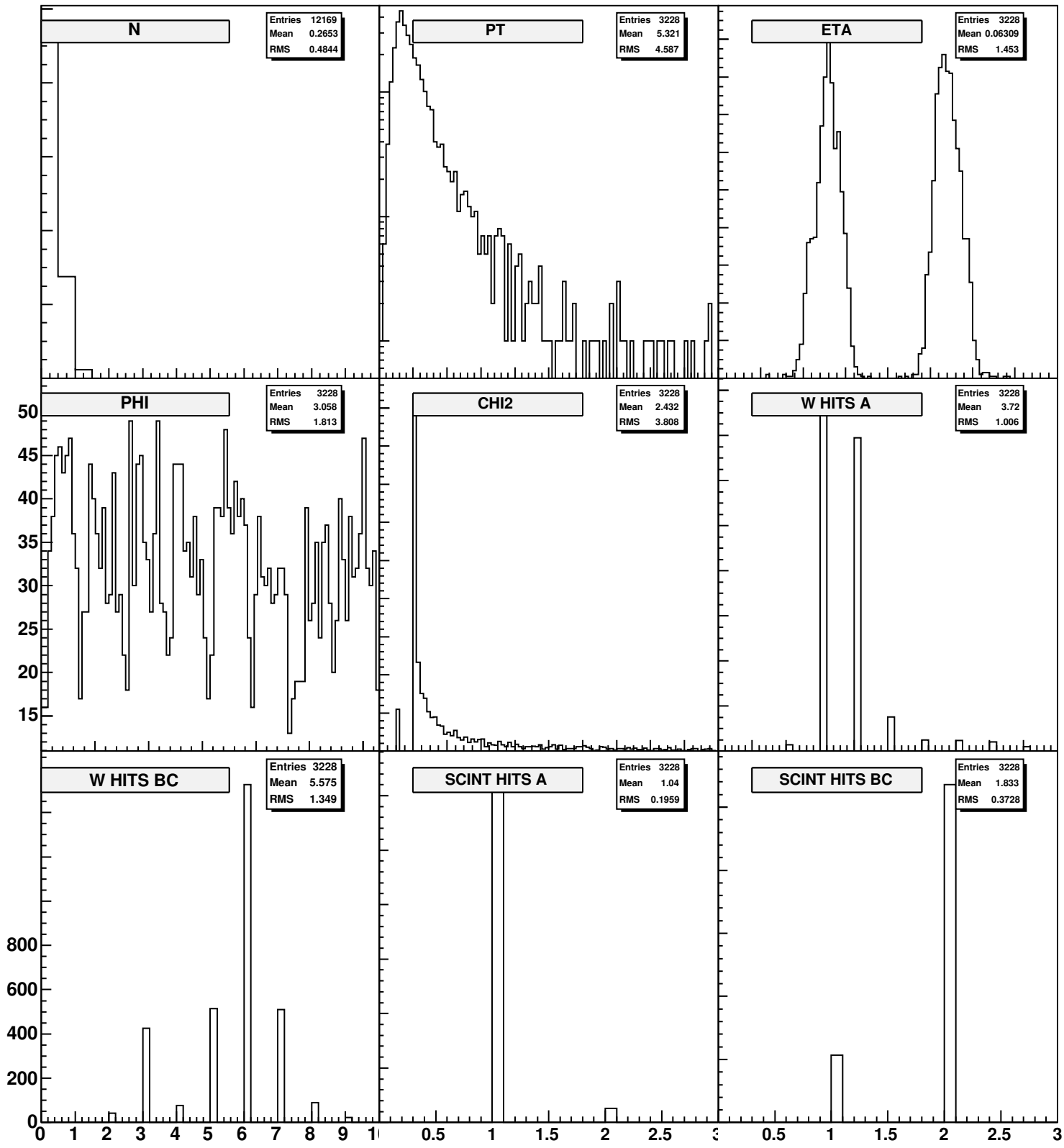
MuonMSC (All)



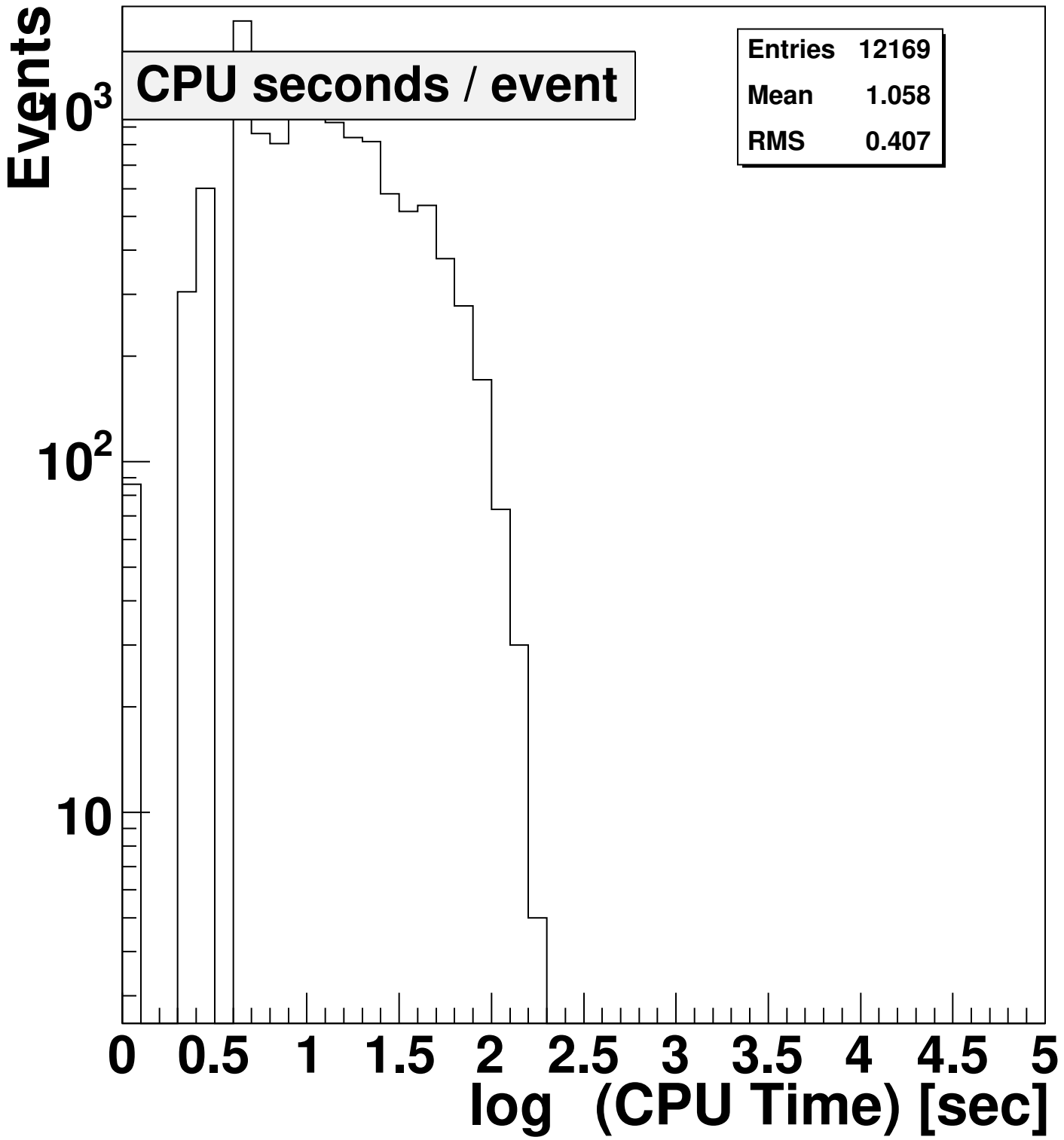
Muon Local Tracks (All)



Muon Local Tracks (MediumWamus)



Muon Local Tracks (MediumFamus)



RECO Performance (Timing)