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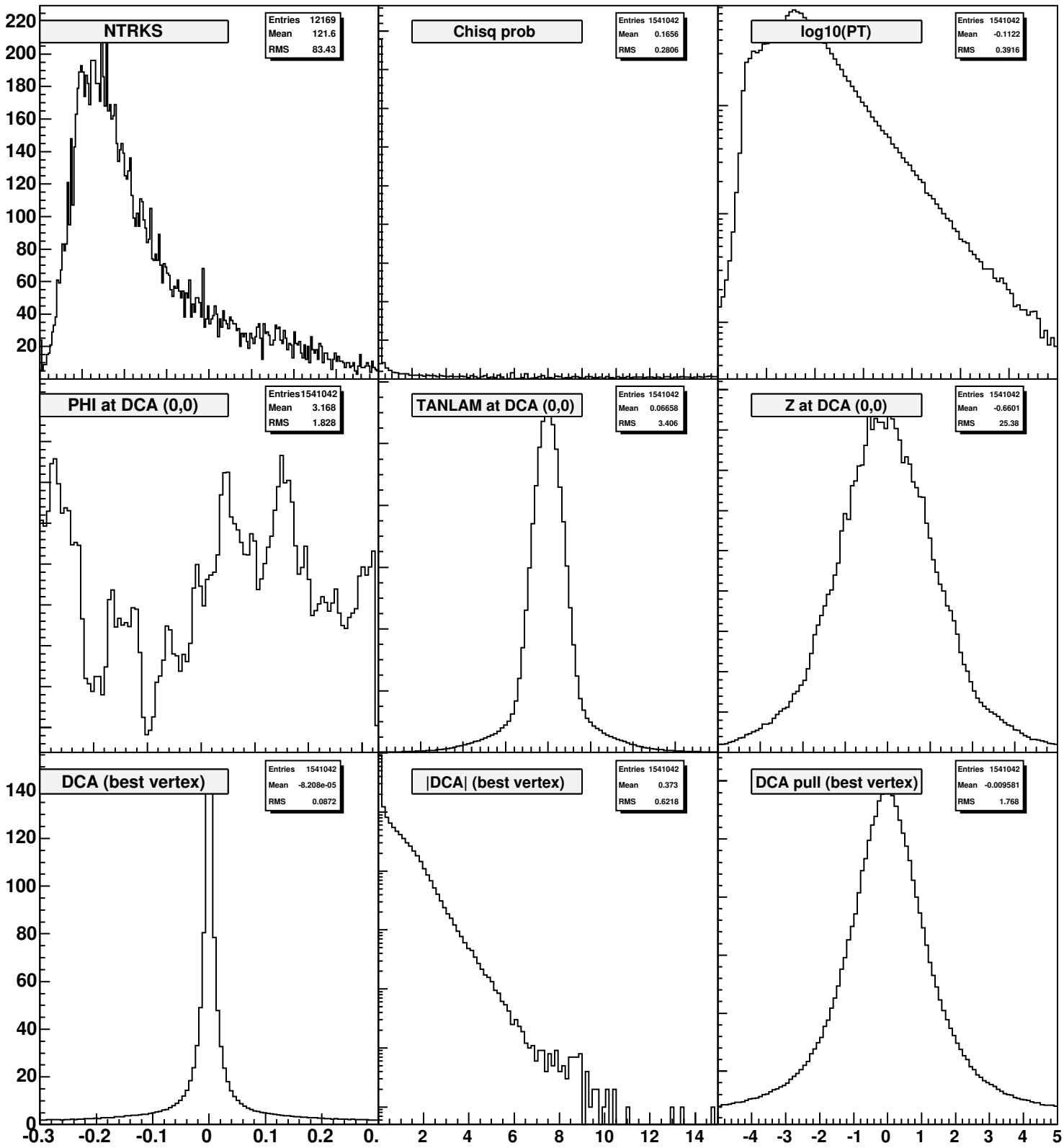
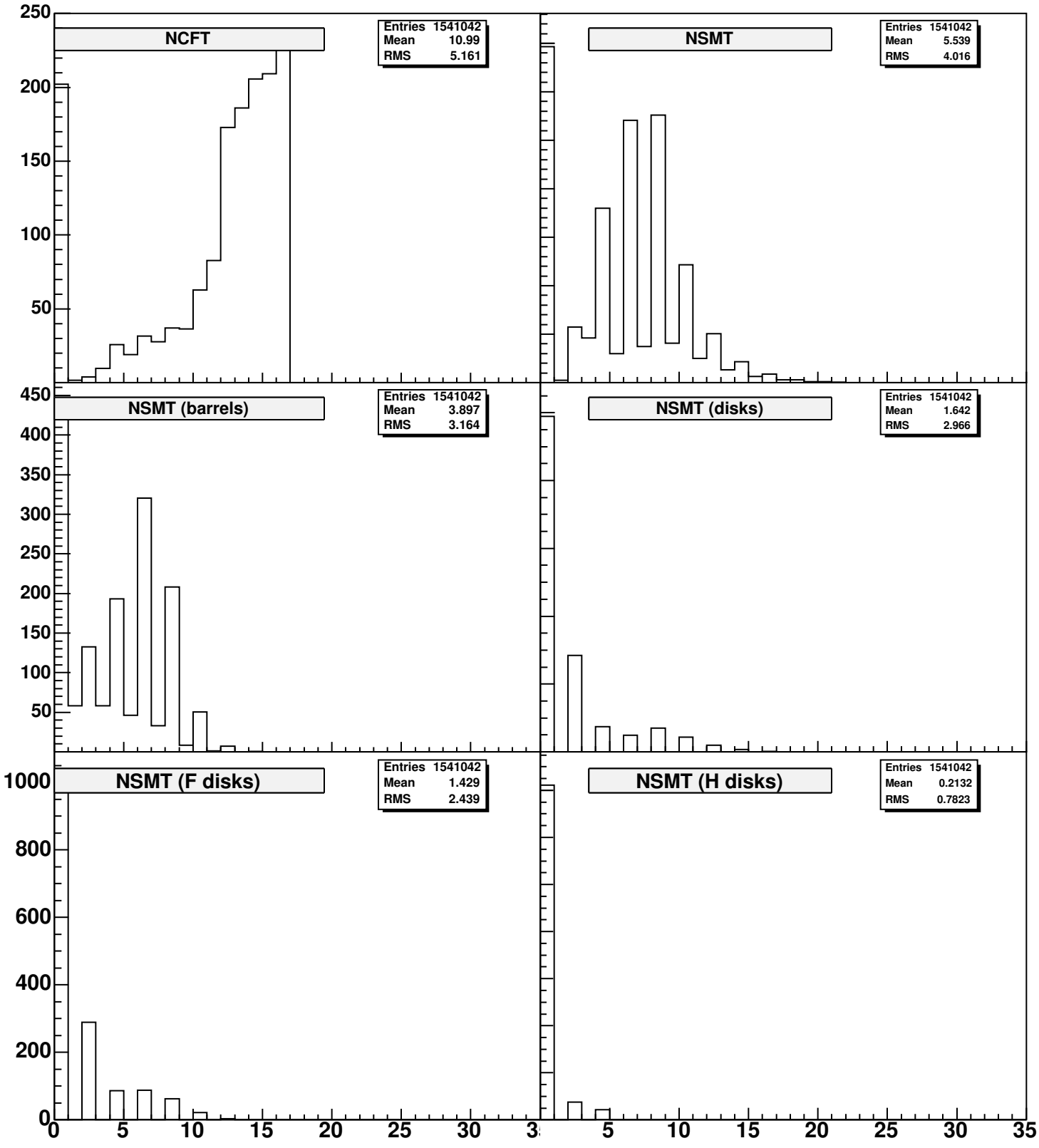
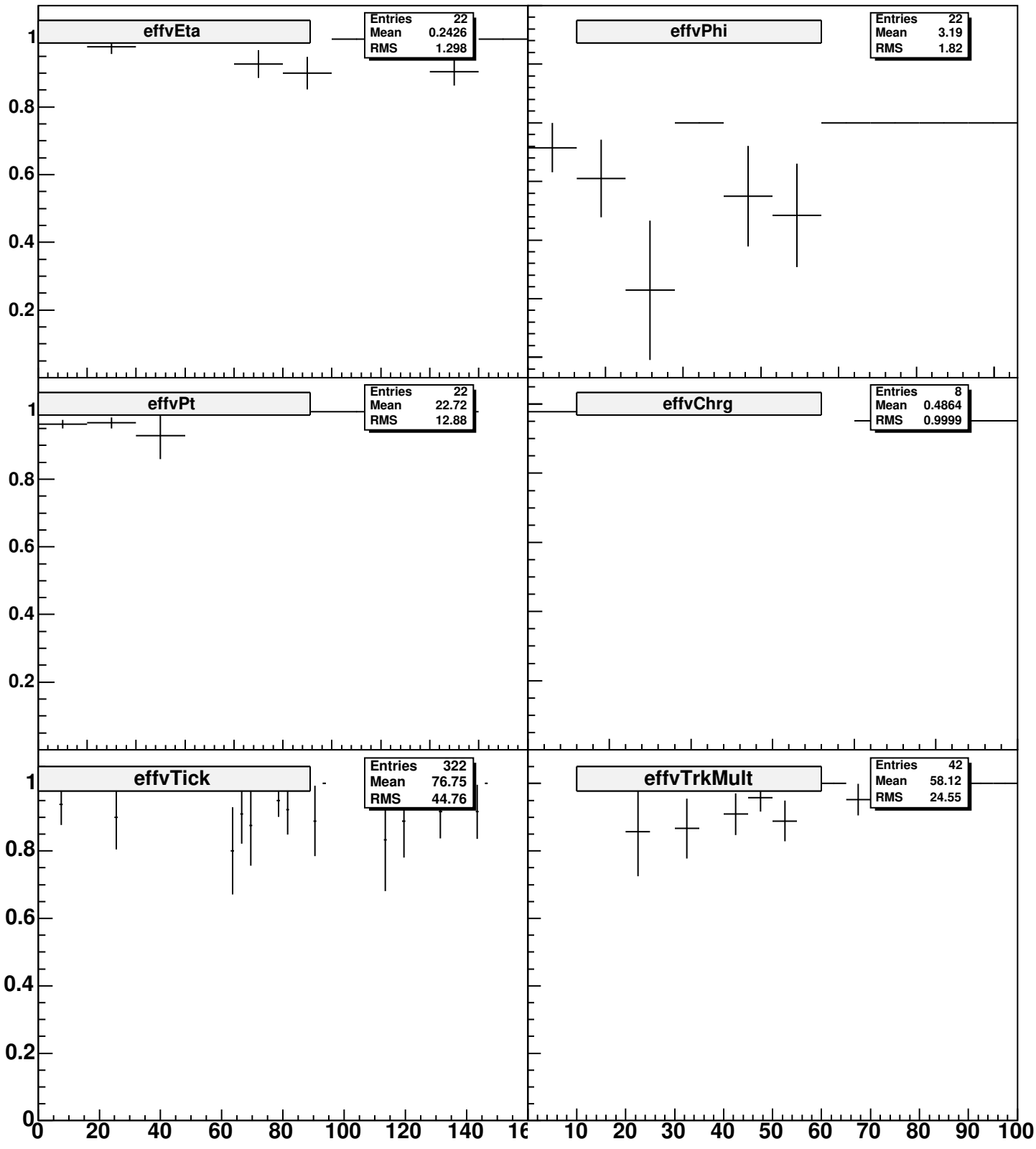
RecoCert_Plots (Index)

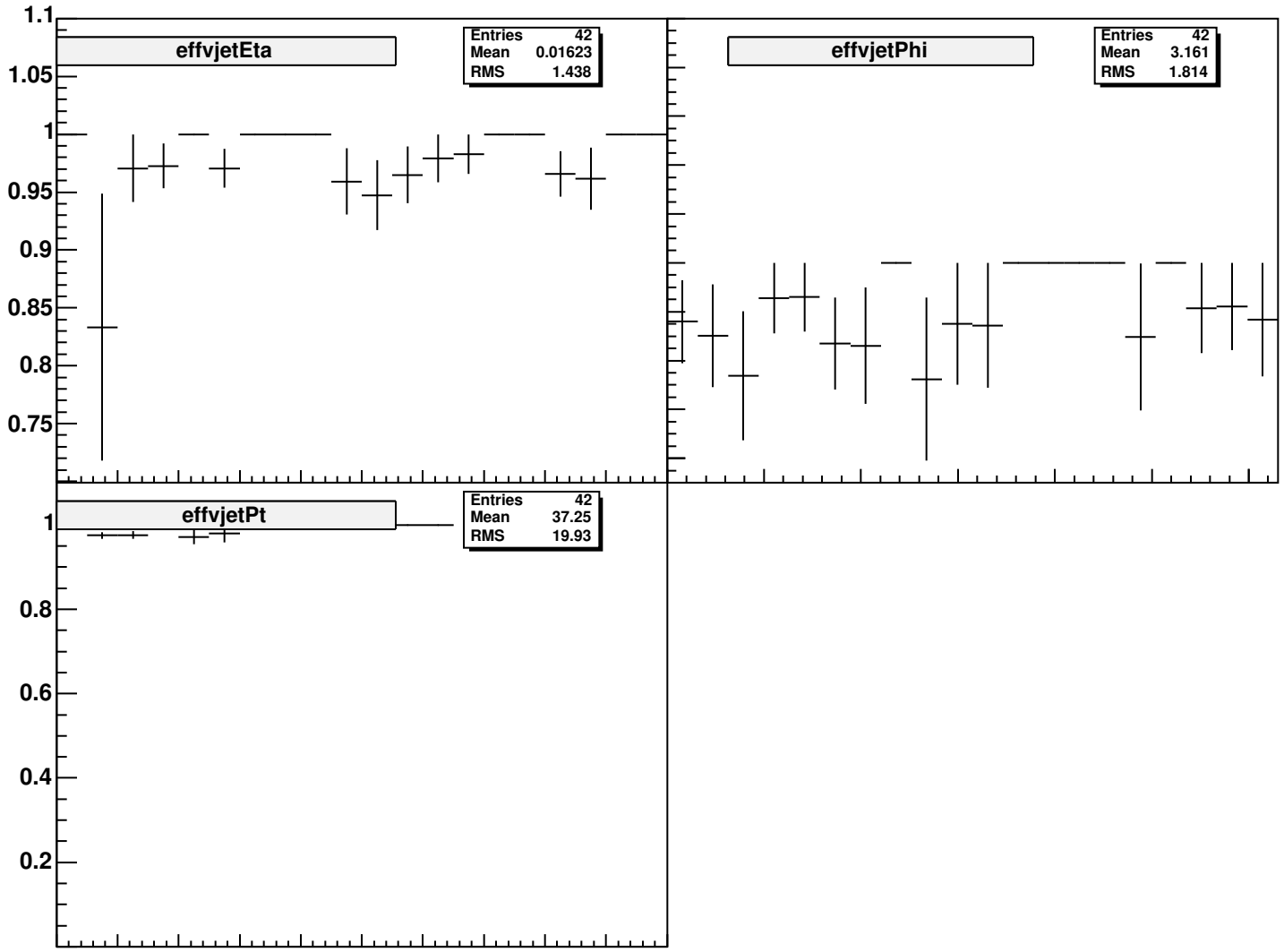

NTRKS
Entries 12169
Mean 121.6
RMS 83.43
Chisq prob
Entries 1541042
Mean 0.1656
RMS 0.2806
log10(PT)
Entries 1541042
Mean -0.1122
RMS 0.3916
PHI at DCA (0,0)
Entries 1541042
Mean 3.168
RMS 1.828
TANLAM at DCA (0,0)
Entries 1541042
Mean 0.06658
RMS 3.406
Z at DCA (0,0)
Entries 1541042
Mean -0.6601
RMS 25.38
DCA (best vertex)
Entries 1541042
Mean -8.208e-05
RMS 0.0872
|DCA| (best vertex)
Entries 1541042
Mean 0.373
RMS 0.6218
DCA pull (best vertex)
Entries 1541042
Mean -0.009581
RMS 1.768

Tracks (All)

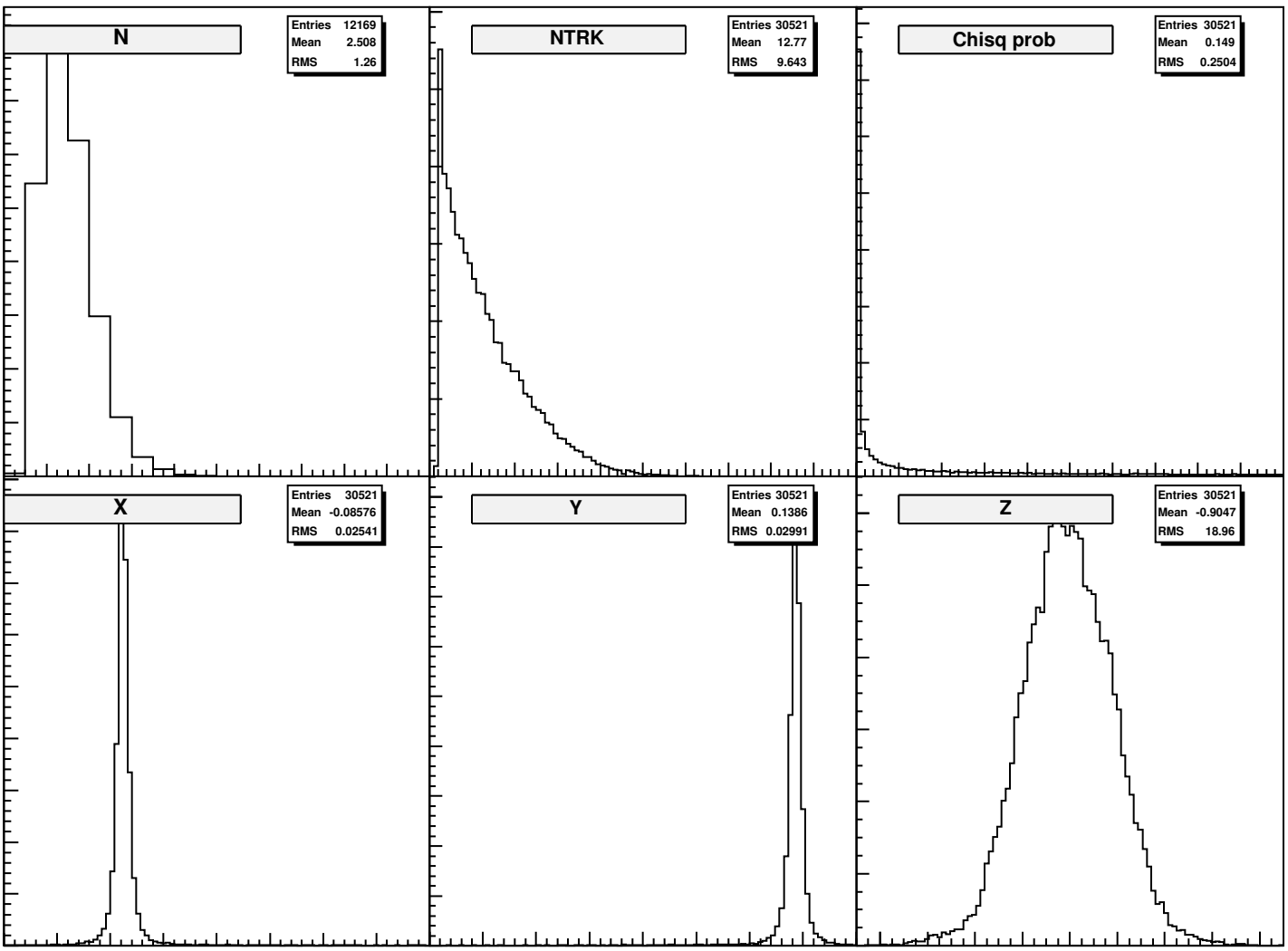

NCFT
Entries 1541042
Mean 10.99
RMS 5.161
NSMT
Entries 1541042
Mean 5.539
RMS 4.016
NSMT (barrels)
Entries 1541042
Mean 3.897
RMS 3.164
NSMT (disks)
Entries 1541042
Mean 1.642
RMS 2.966
NSMT (F disks)
Entries 1541042
Mean 1.429
RMS 2.439
NSMT (H disks)
Entries 1541042
Mean 0.2132
RMS 0.7823
Track Hits (All)



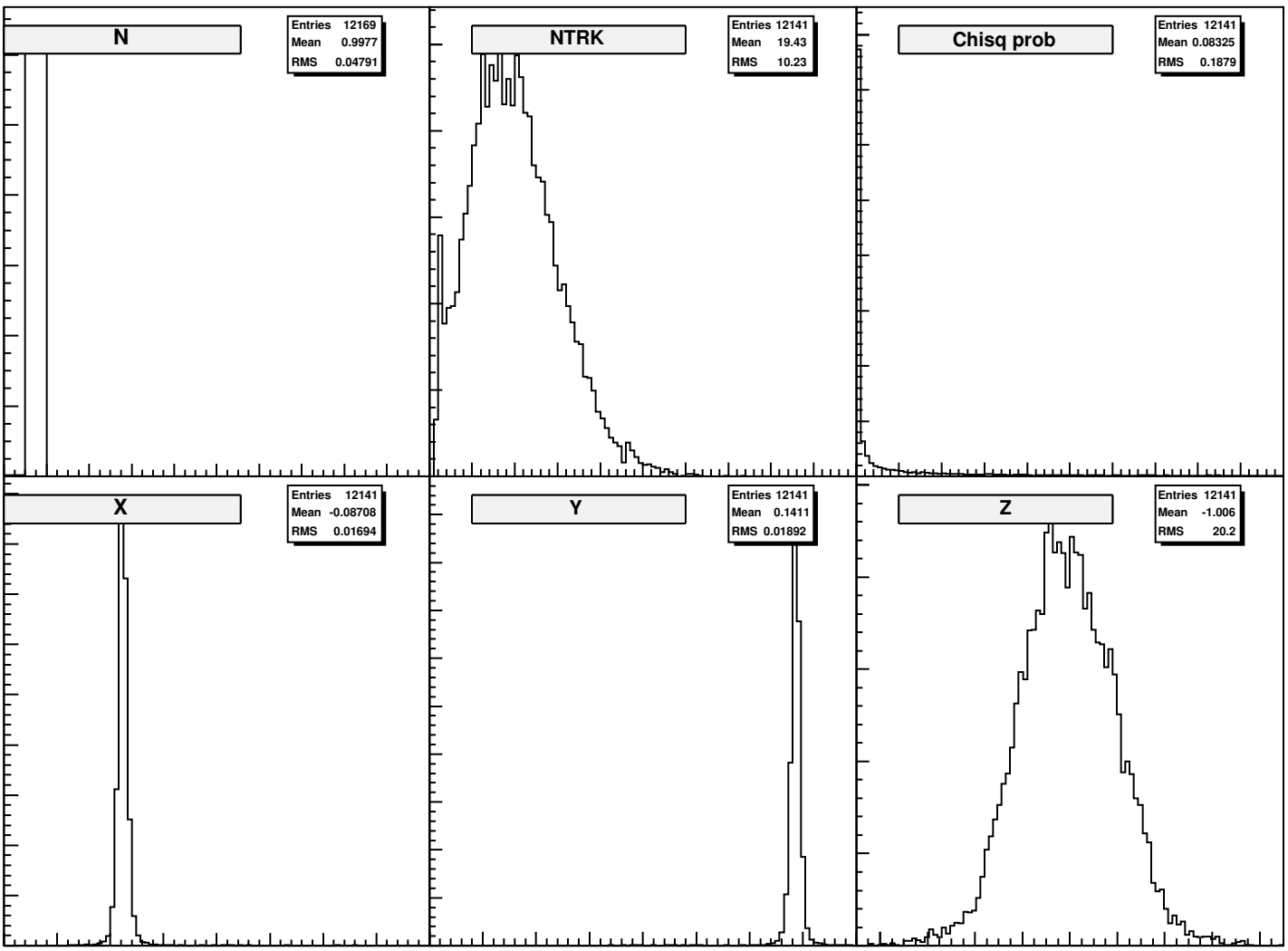
Tracking (Efficiency-Isolated)



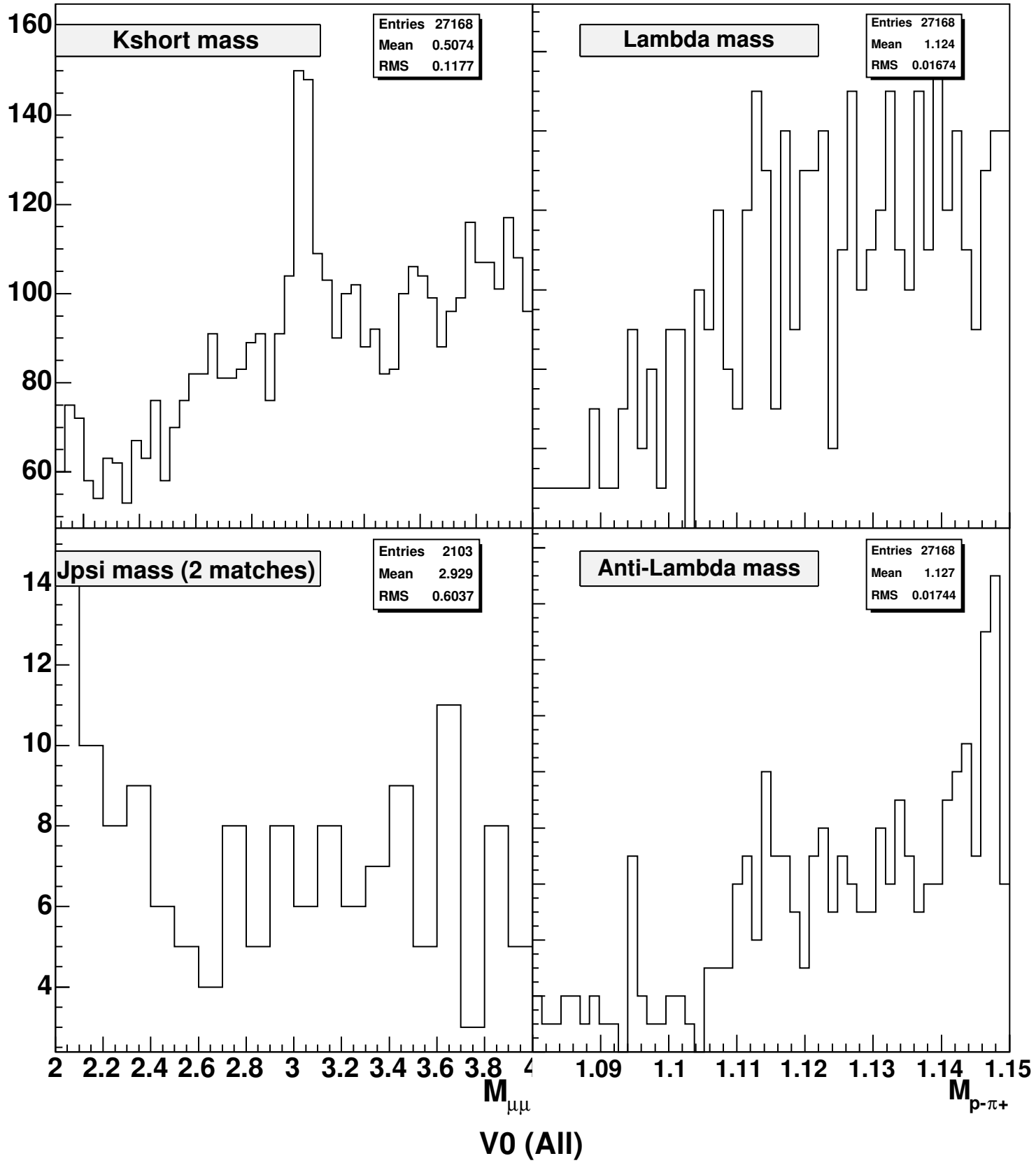
Tracking (Efficiency-InJets)

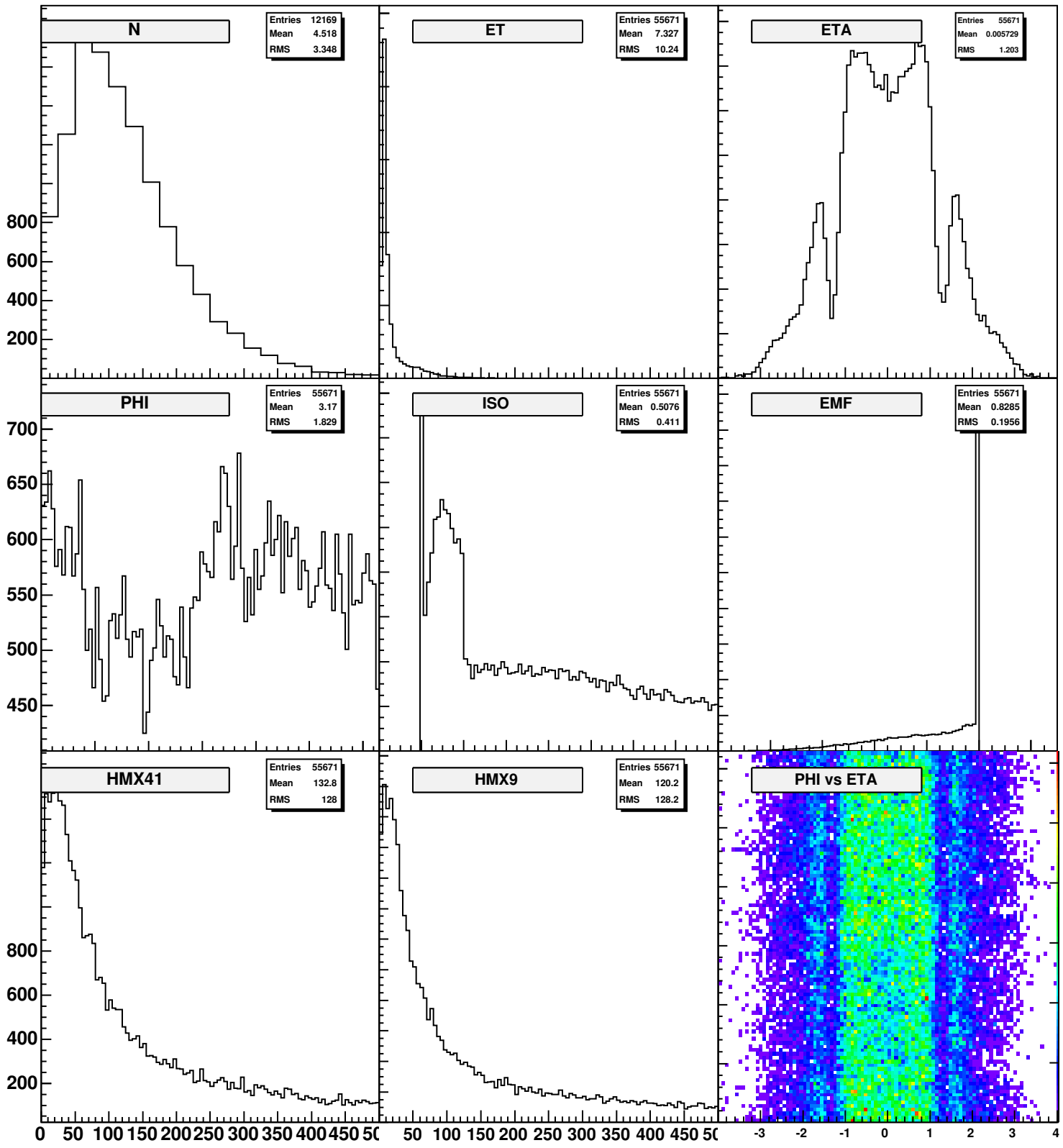


Vertices (Primary - all candidates)

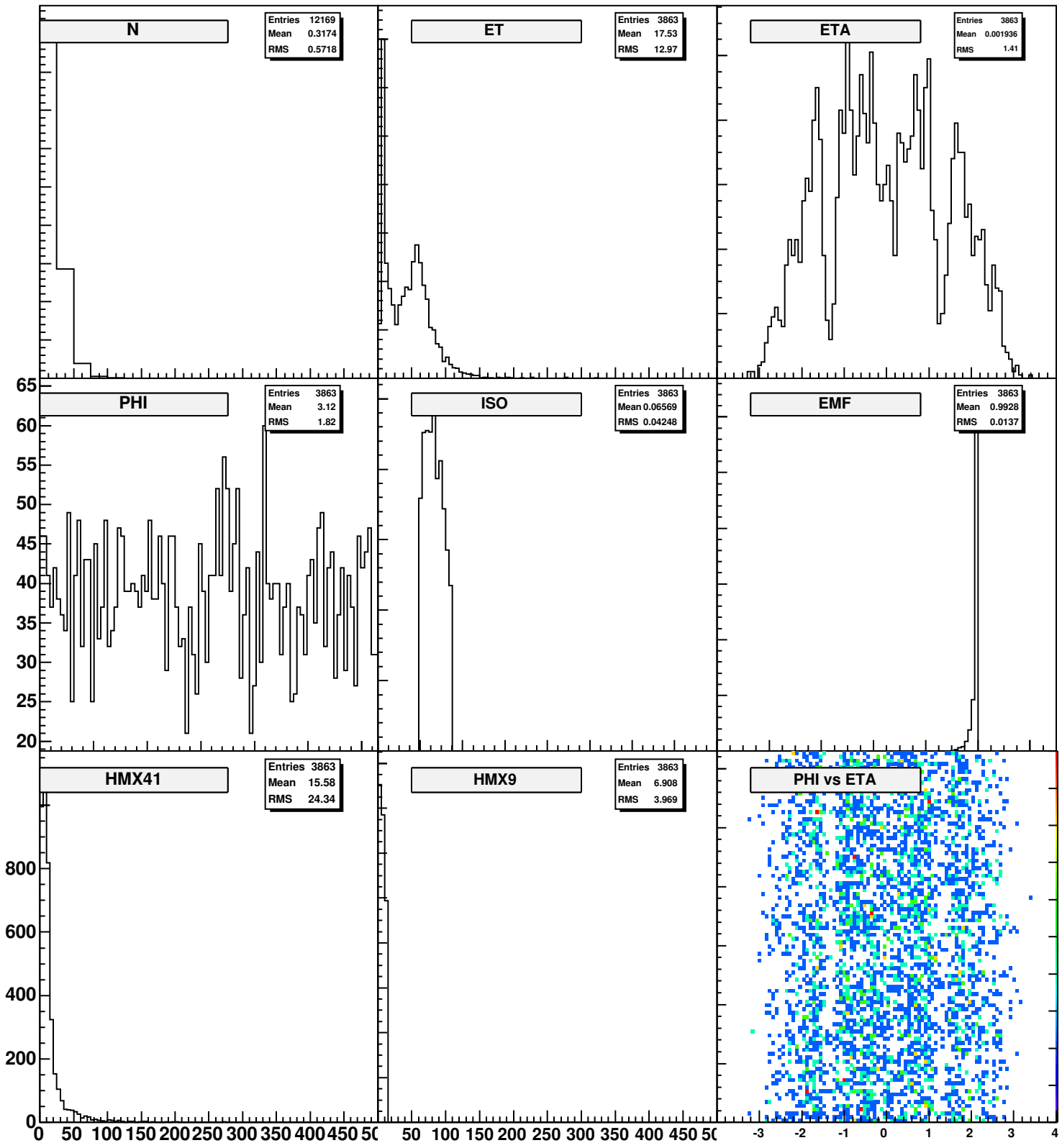


Vertices (Primary - best)

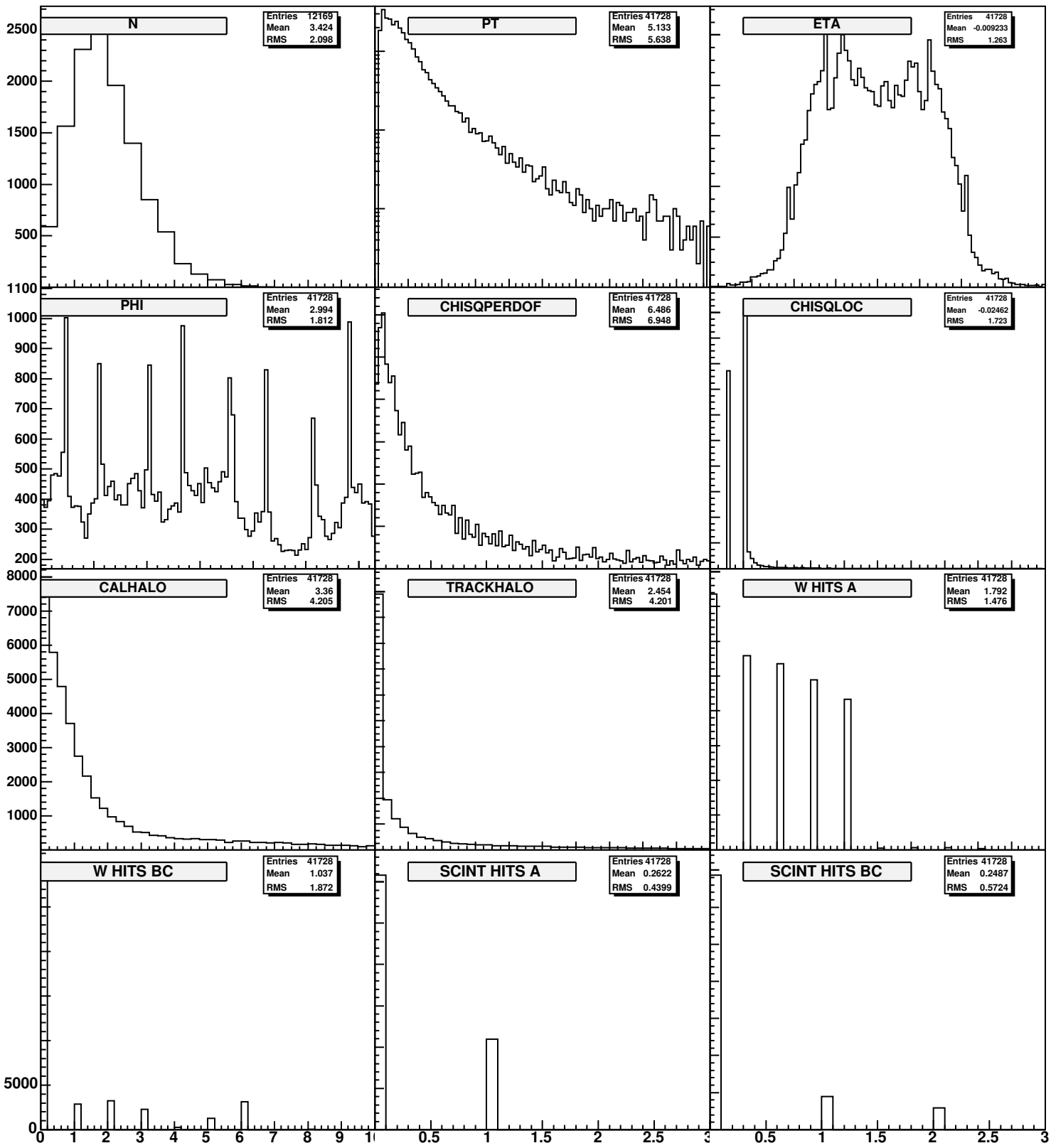

Kshort mass
Entries 27168
Mean 0.5074
RMS 0.1177
Lambda mass
Entries 27168
Mean 1.124
RMS 0.01674
Jpsi mass (2 matches)
Entries 2103
Mean 2.929
RMS 0.6037
Anti-Lambda mass
Entries 27168
Mean 1.127
RMS 0.01744
160
140
120
100
80
60
14
12
10
8
6
4
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
M$_{\mu\mu}$
1.09 1.1 1.11 1.12 1.13 1.14 1.15
M$_{p\text{-}\pi+}$
V0 (All)



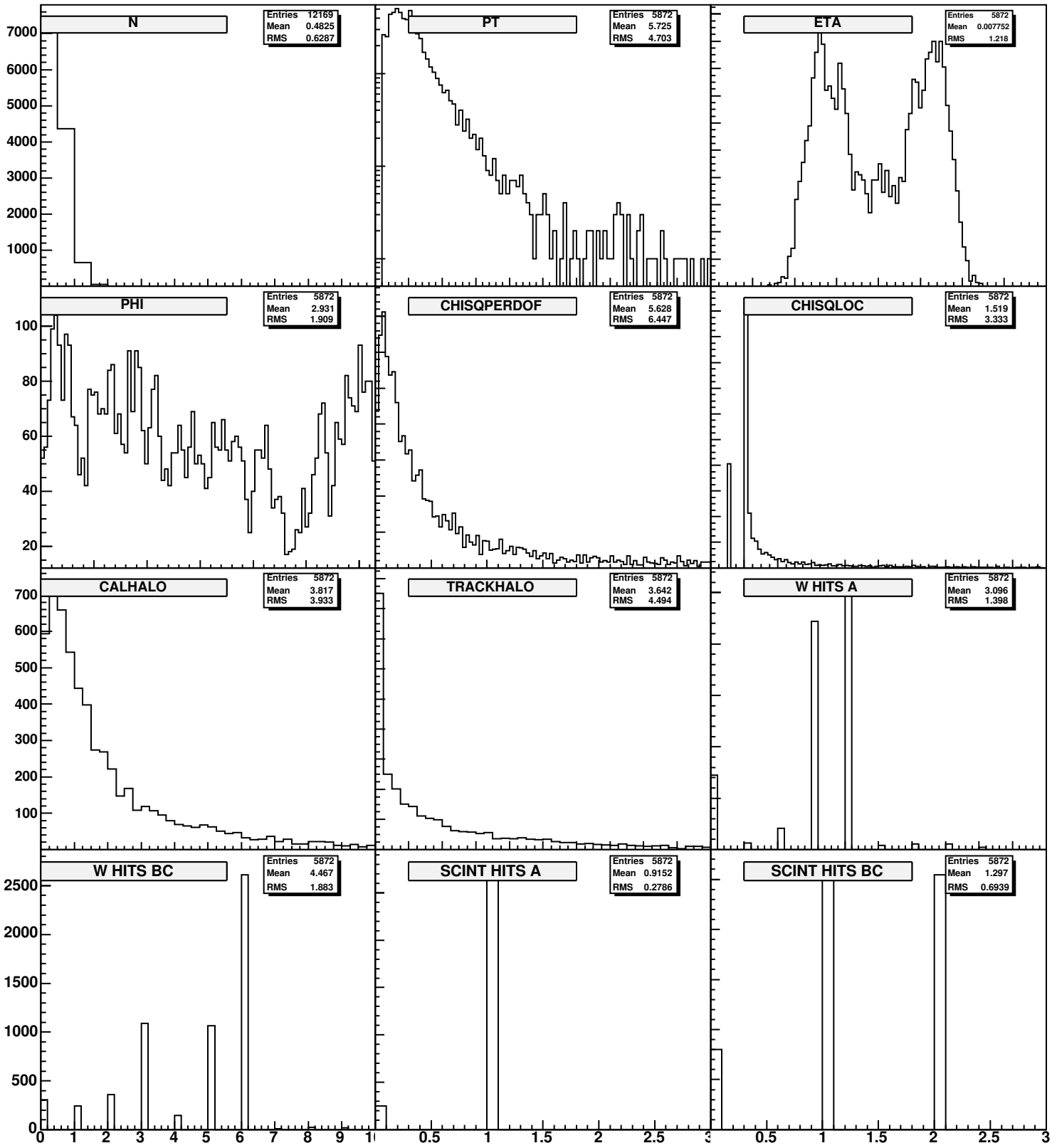
Electrons (SCONE All)



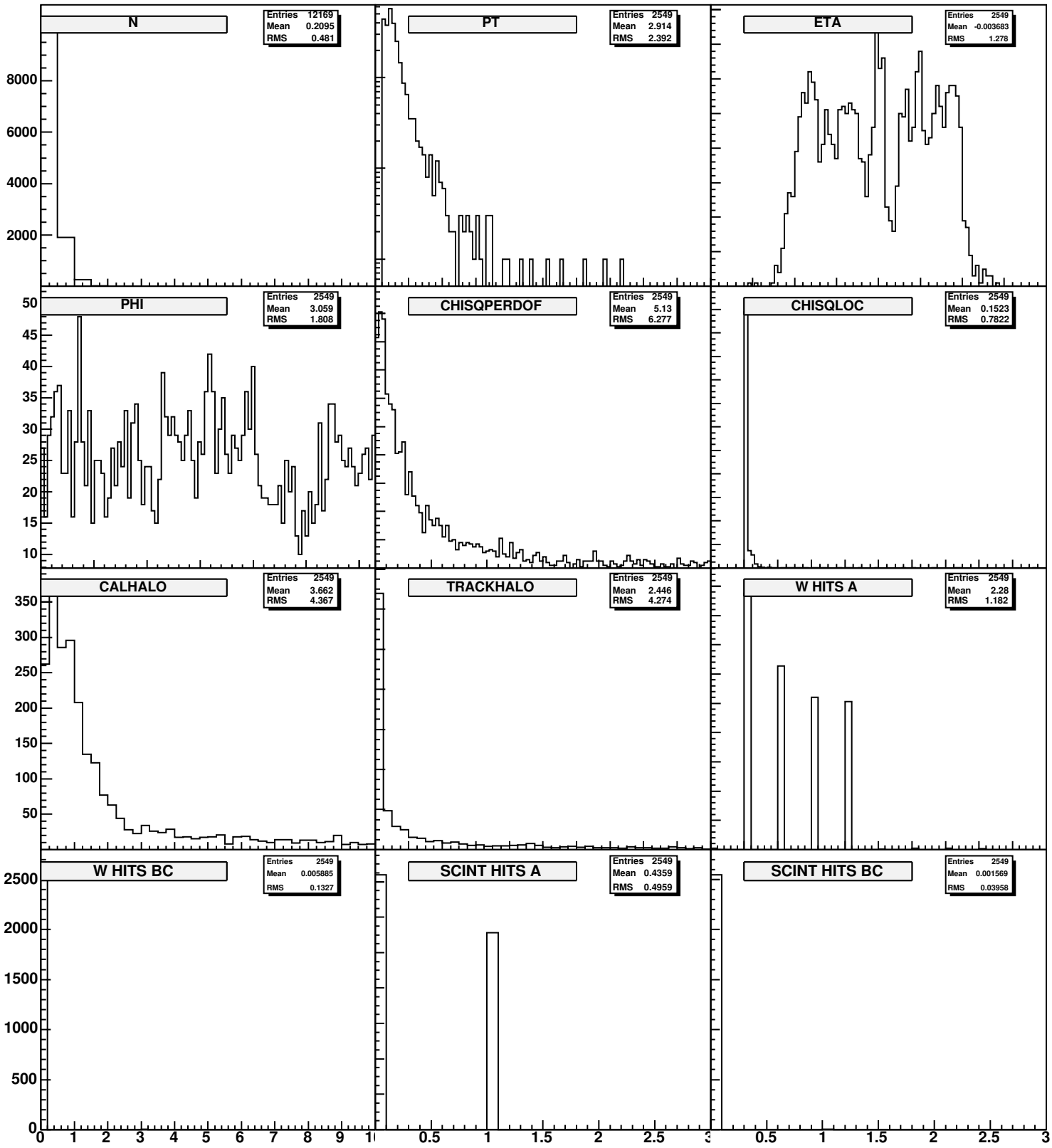
Electrons (SCONE Tight)


N
Entries 12169
Mean 3.424
RMS 2.098
PT
Entries 41728
Mean 5.133
RMS 5.638
ETA
Entries 41728
Mean -0.009233
RMS 1.263
PHI
Entries 41728
Mean 2.994
RMS 1.812
CHISQPERDOF
Entries 41728
Mean 6.486
RMS 6.948
CHISQLOC
Entries 41728
Mean -0.02462
RMS 1.723
CALHALO
Entries 41728
Mean 3.36
RMS 4.205
TRACKHALO
Entries 41728
Mean 2.454
RMS 4.201
W HITS A
Entries 41728
Mean 1.792
RMS 1.476
W HITS BC
Entries 41728
Mean 1.037
RMS 1.872
SCINT HITS A
Entries 41728
Mean 0.2622
RMS 0.4399
SCINT HITS BC
Entries 41728
Mean 0.2487
RMS 0.5724

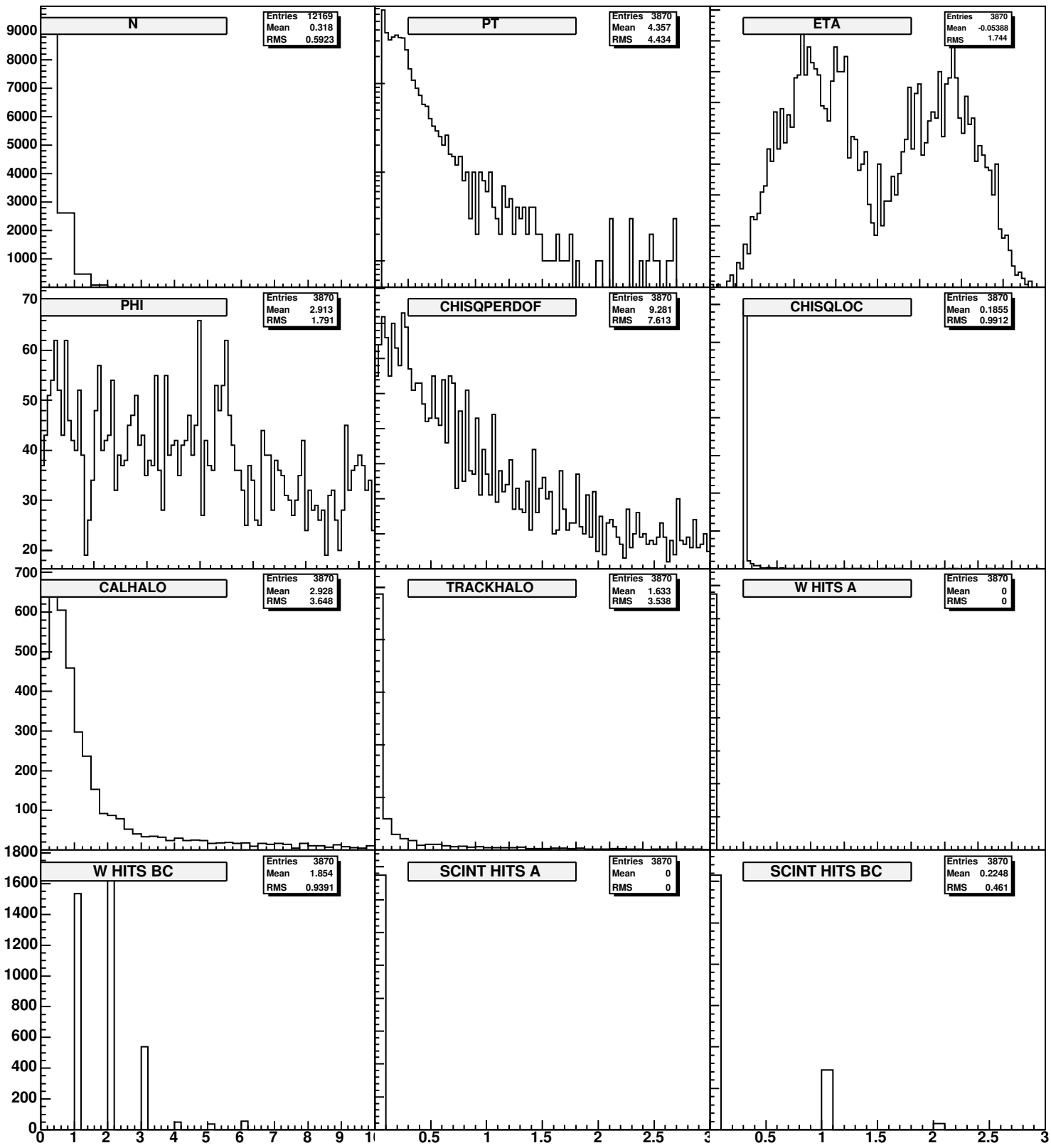
Muons (All)



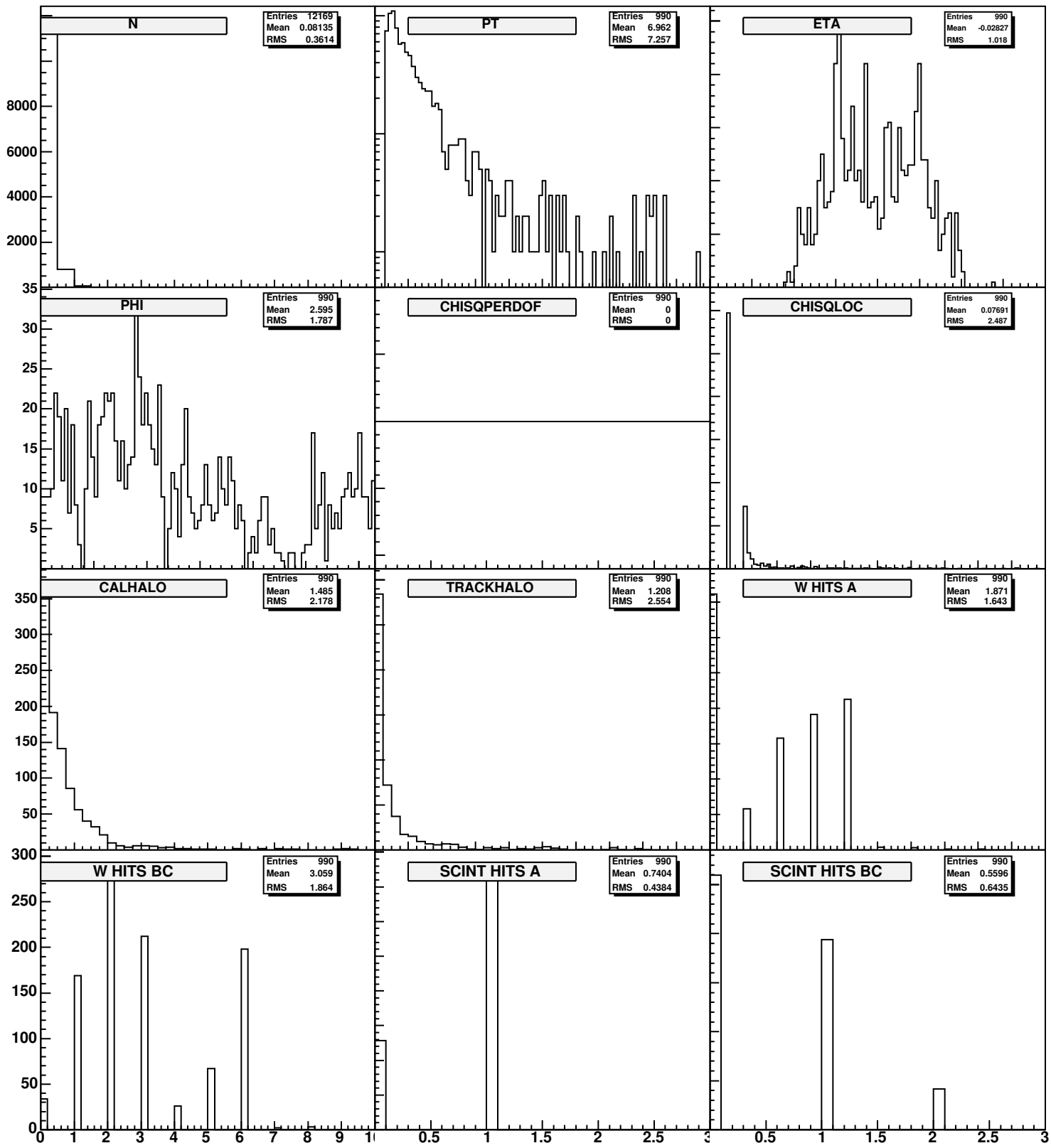
Muons (Matched)


N
Entries 12169
Mean 0.2095
RMS 0.481
PT
Entries 2549
Mean 2.914
RMS 2.392
ETA
Entries 2549
Mean -0.003683
RMS 1.278
PHI
Entries 2549
Mean 3.059
RMS 1.808
CHISQPERDOF
Entries 2549
Mean 5.13
RMS 6.277
CHISQLOC
Entries 2549
Mean 0.1523
RMS 0.7822
CALHALO
Entries 2549
Mean 3.662
RMS 4.367
TRACKHALO
Entries 2549
Mean 2.446
RMS 4.274
W HITS A
Entries 2549
Mean 2.28
RMS 1.182
W HITS BC
Entries 2549
Mean 0.005885
RMS 0.1327
SCINT HITS A
Entries 2549
Mean 0.4359
RMS 0.4959
SCINT HITS BC
Entries 2549
Mean 0.001569
RMS 0.03958

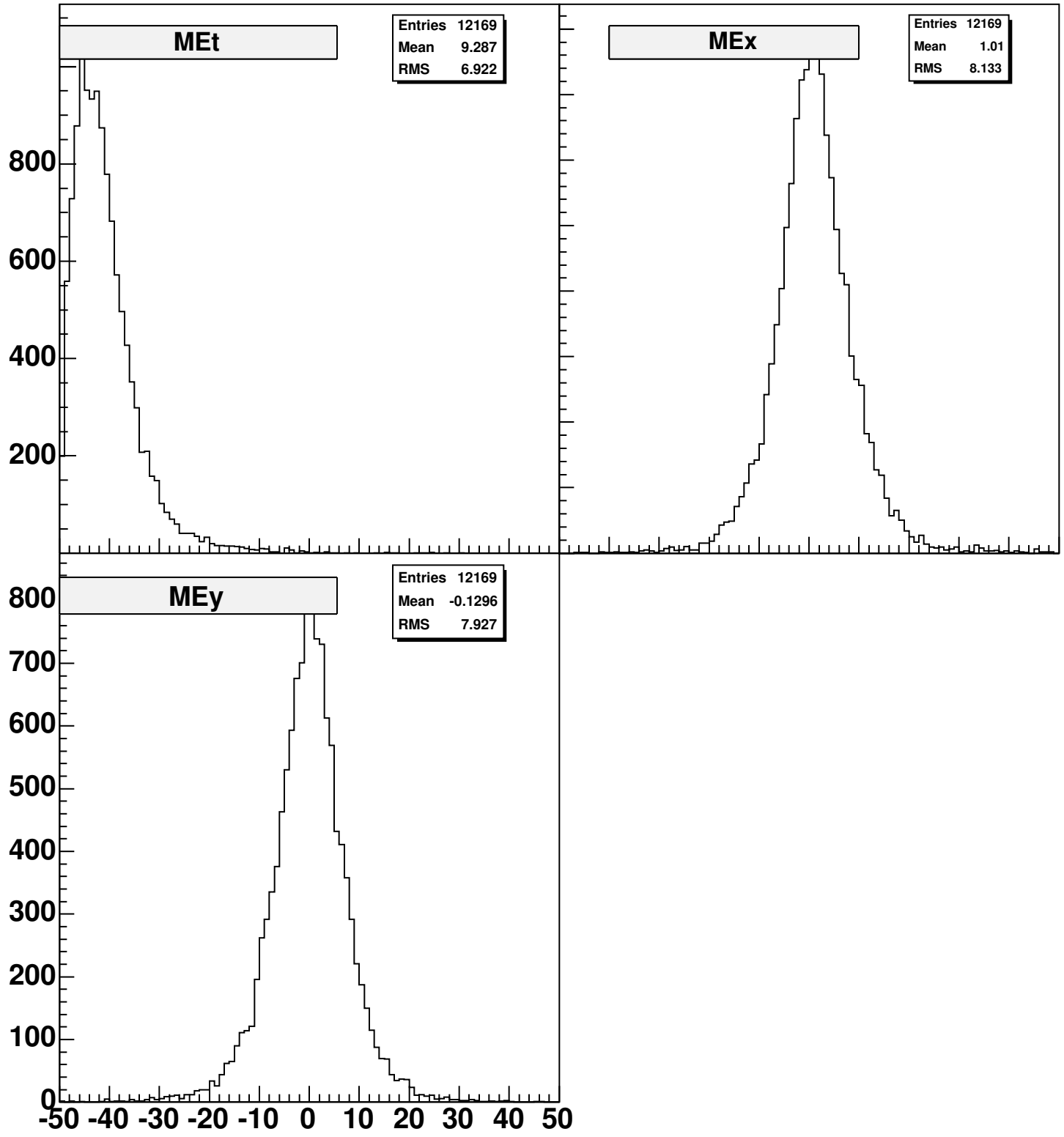
Muons (Astub)

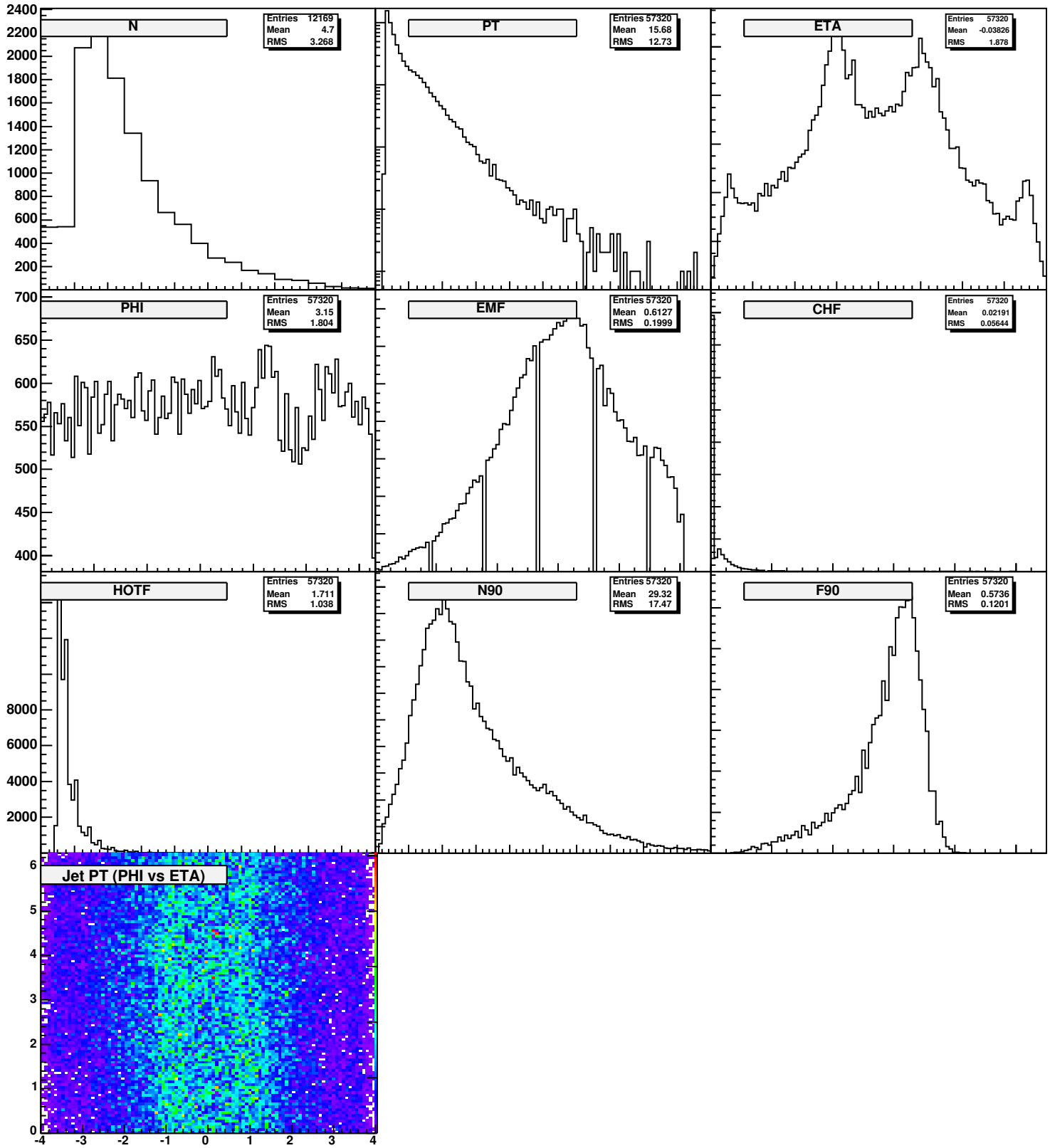


Muons (BCstub)

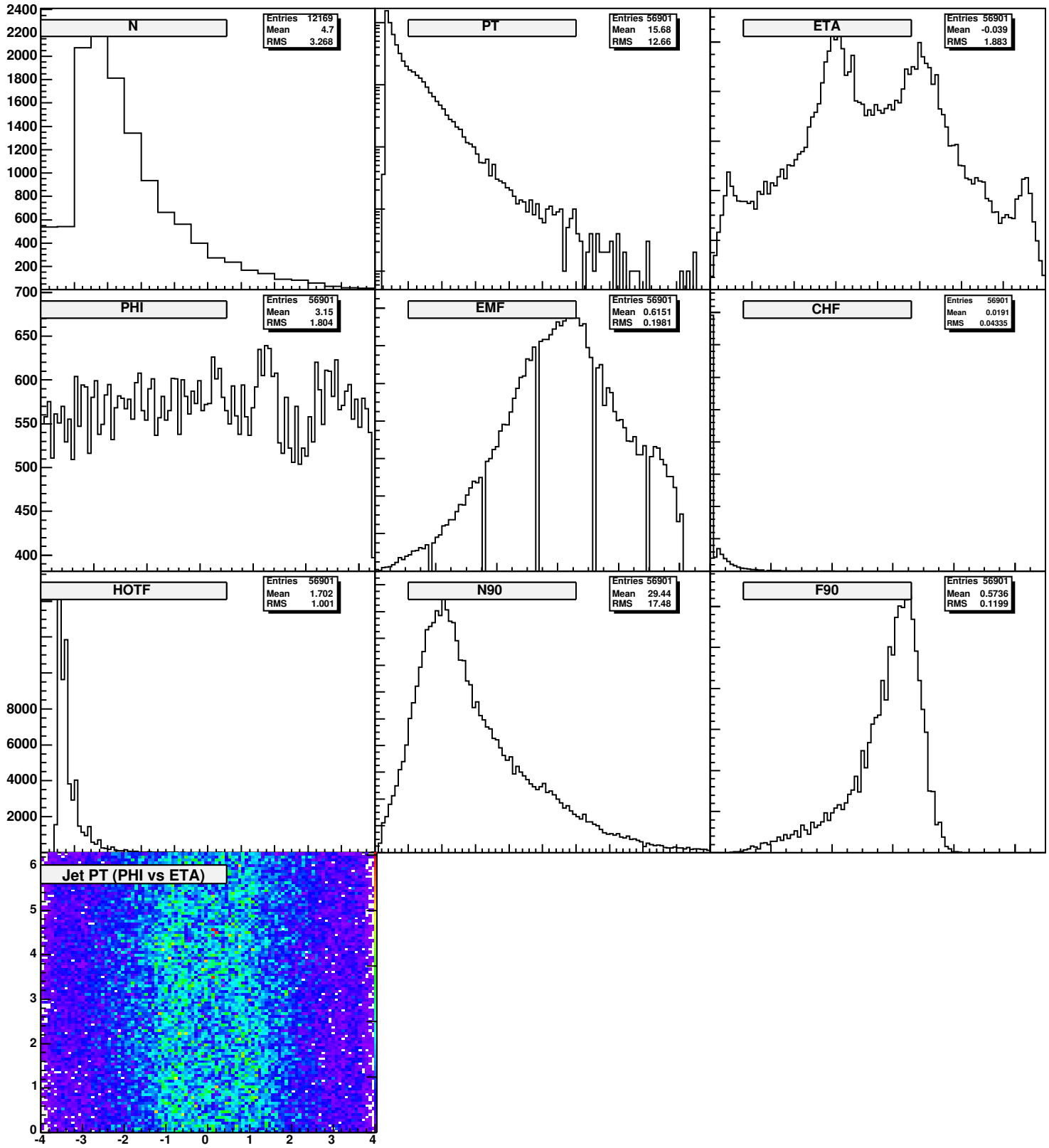


Muons (Unmatched)

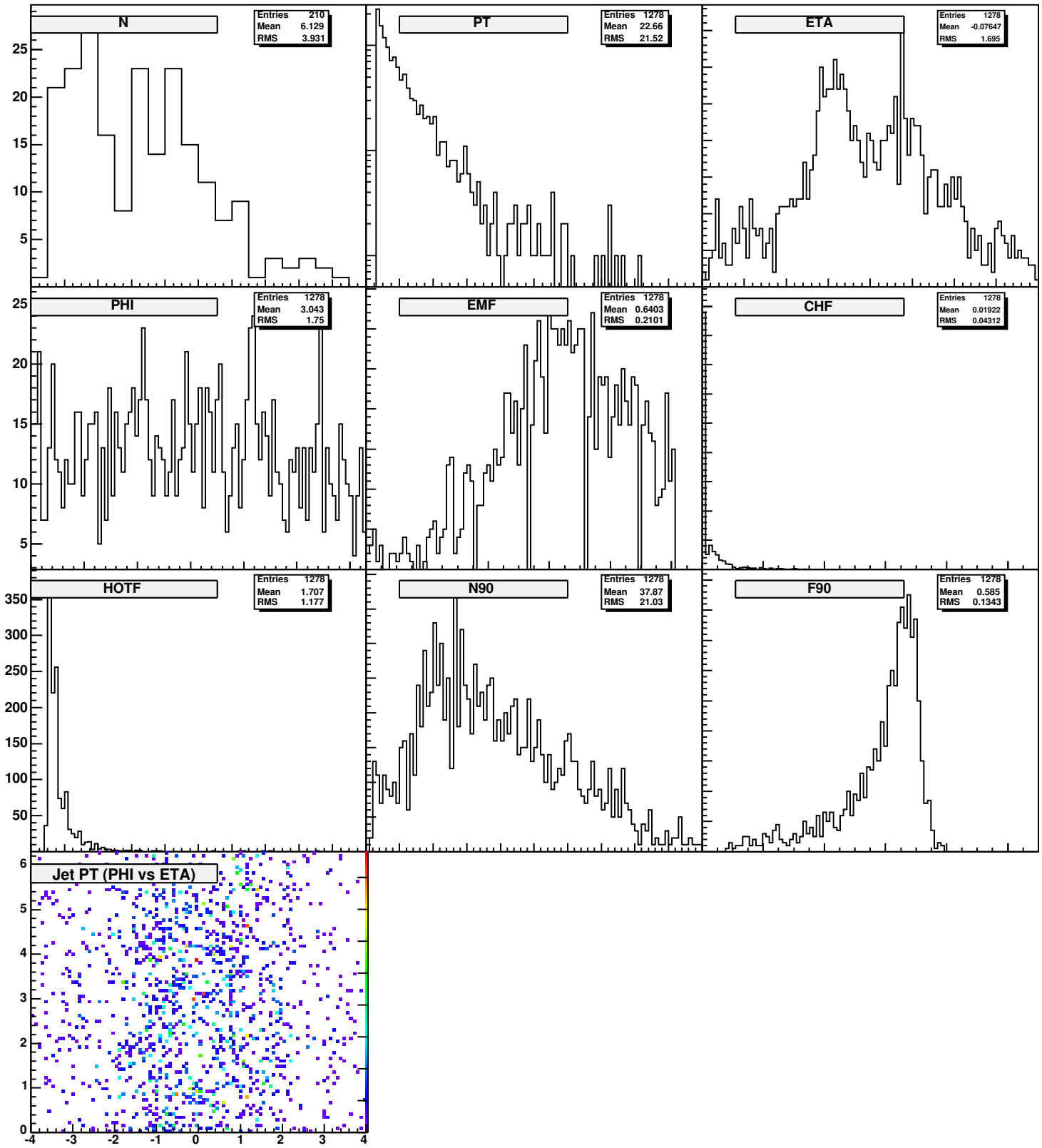

MEt
Entries 12169
Mean 9.287
RMS 6.922
MEx
Entries 12169
Mean 1.01
RMS 8.133
MEy
Entries 12169
Mean -0.1296
RMS 7.927
800
600
400
200
800
700
600
500
400
300
200
100
0
-50 -40 -30 -20 -10 0 10 20 30 40 50
Met (No cuts)



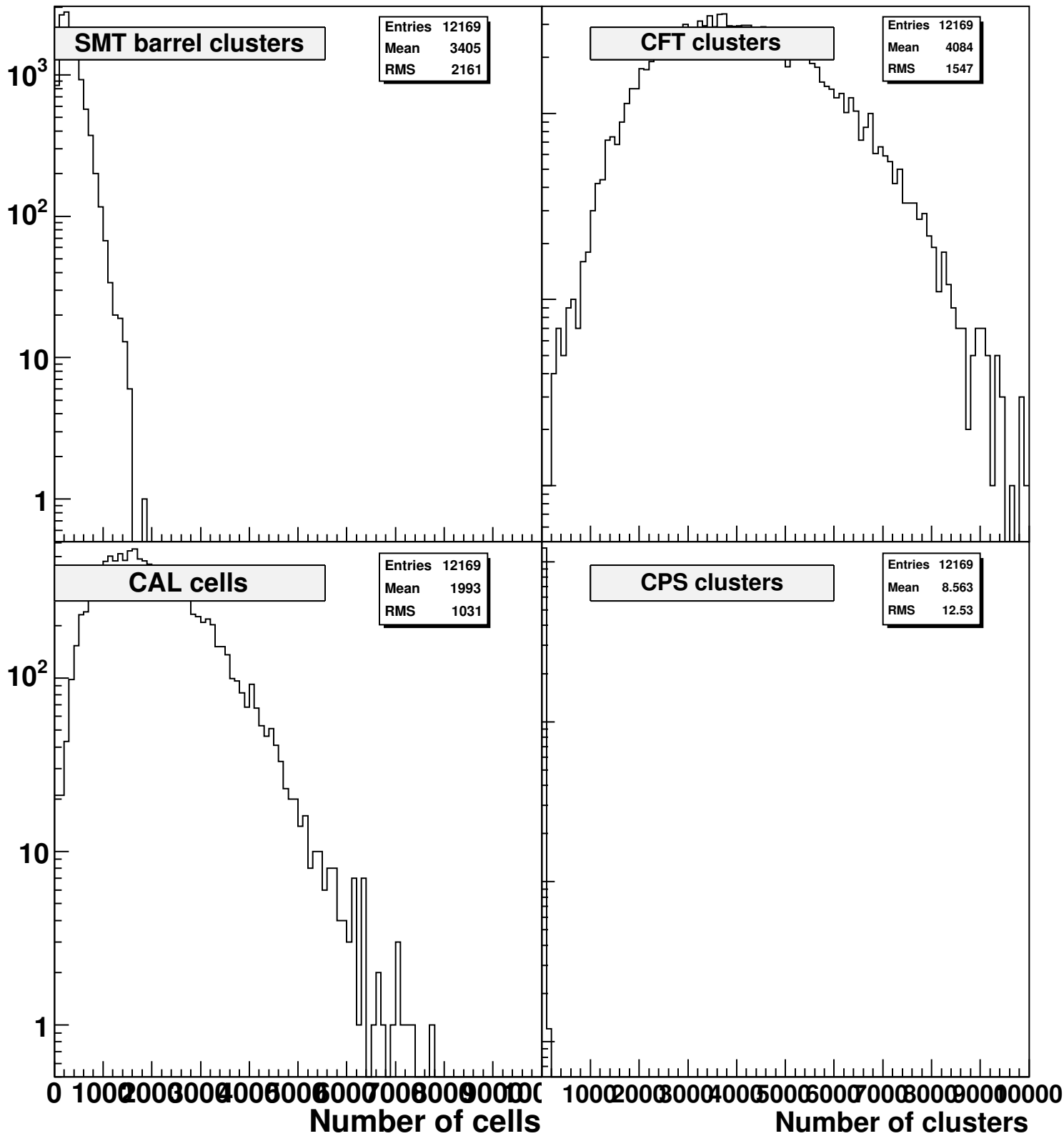
Jets (Cone R 0.7 (no cuts))

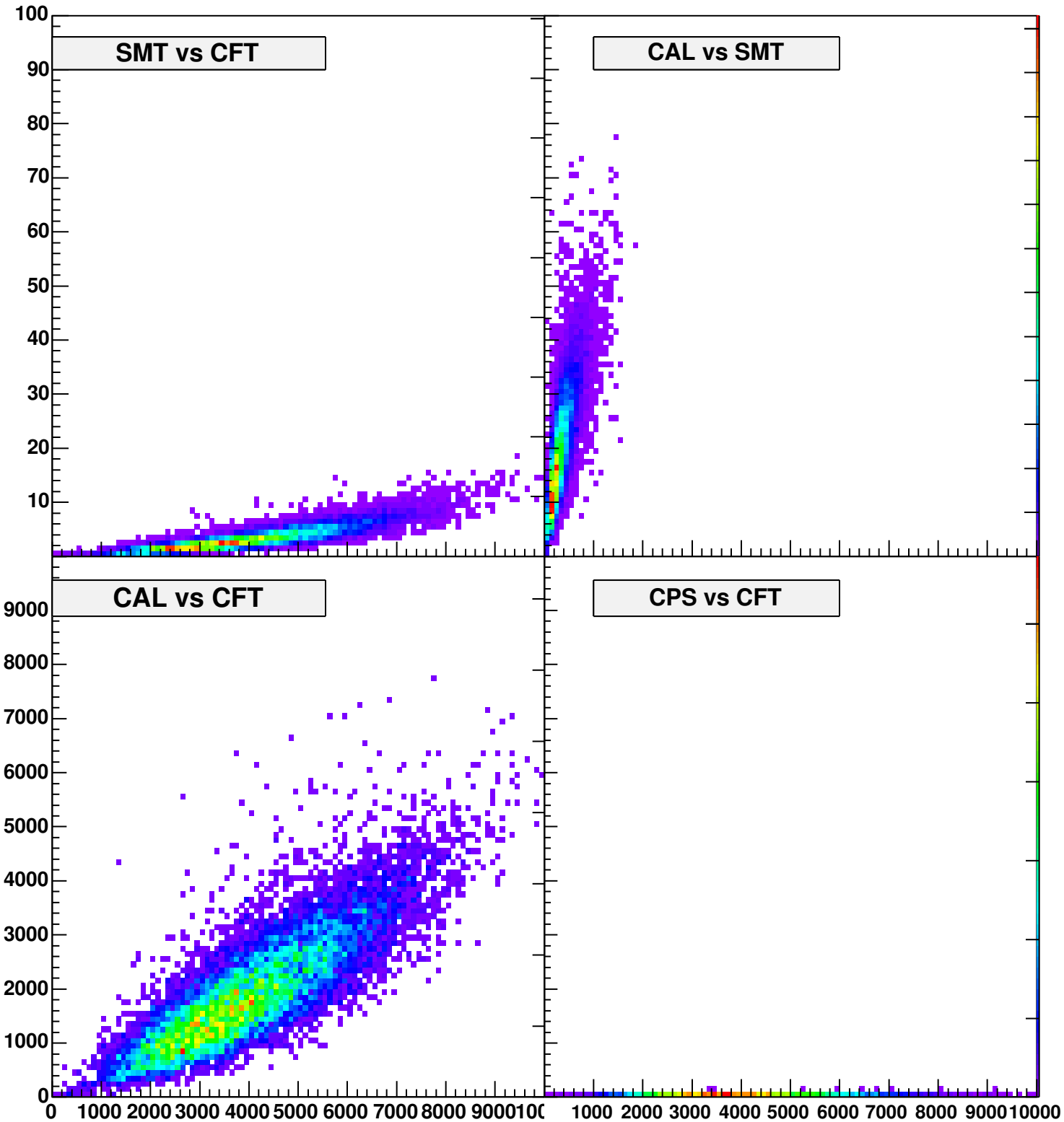


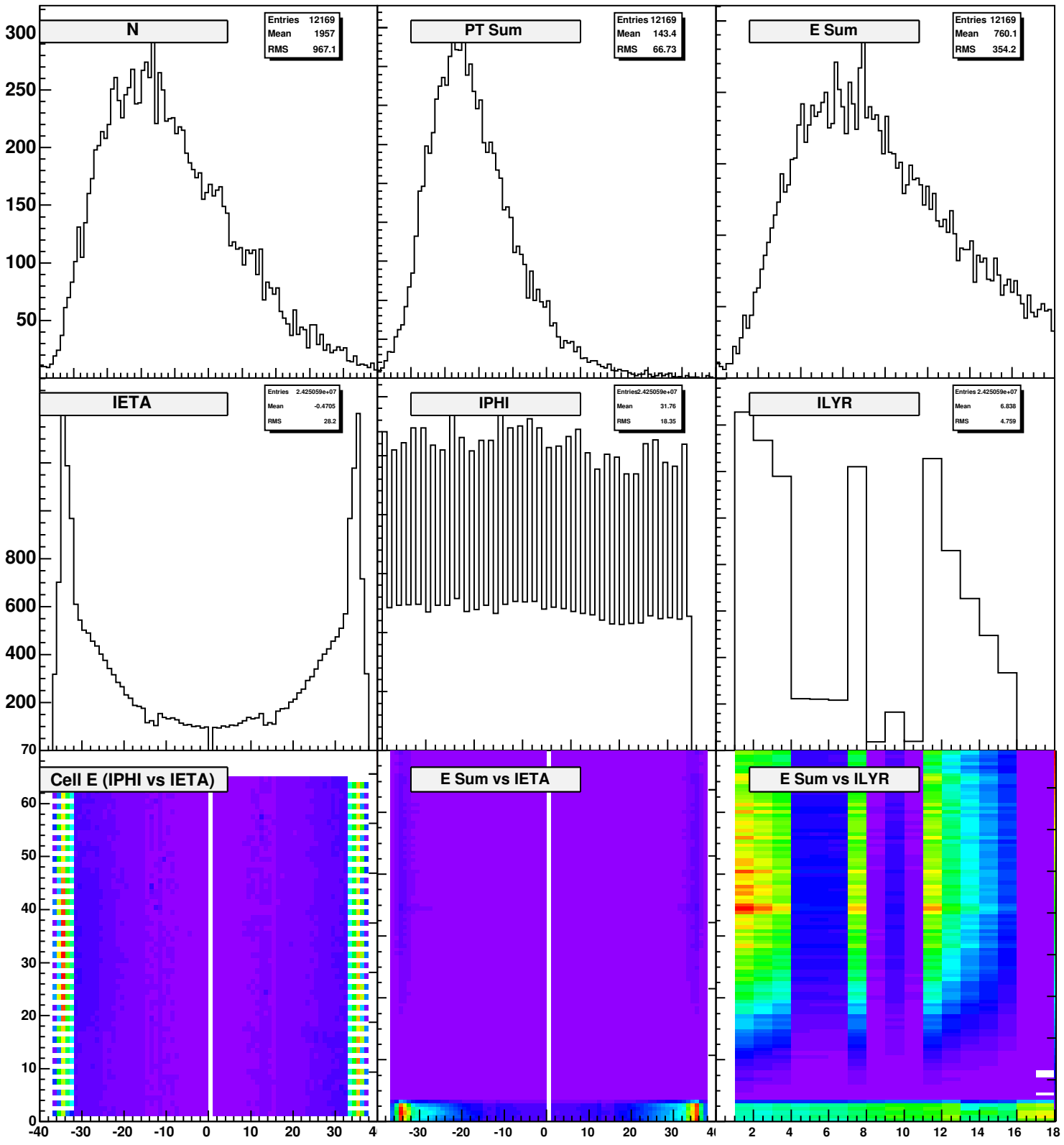
Jets (Cone R 0.7 (standard cuts))



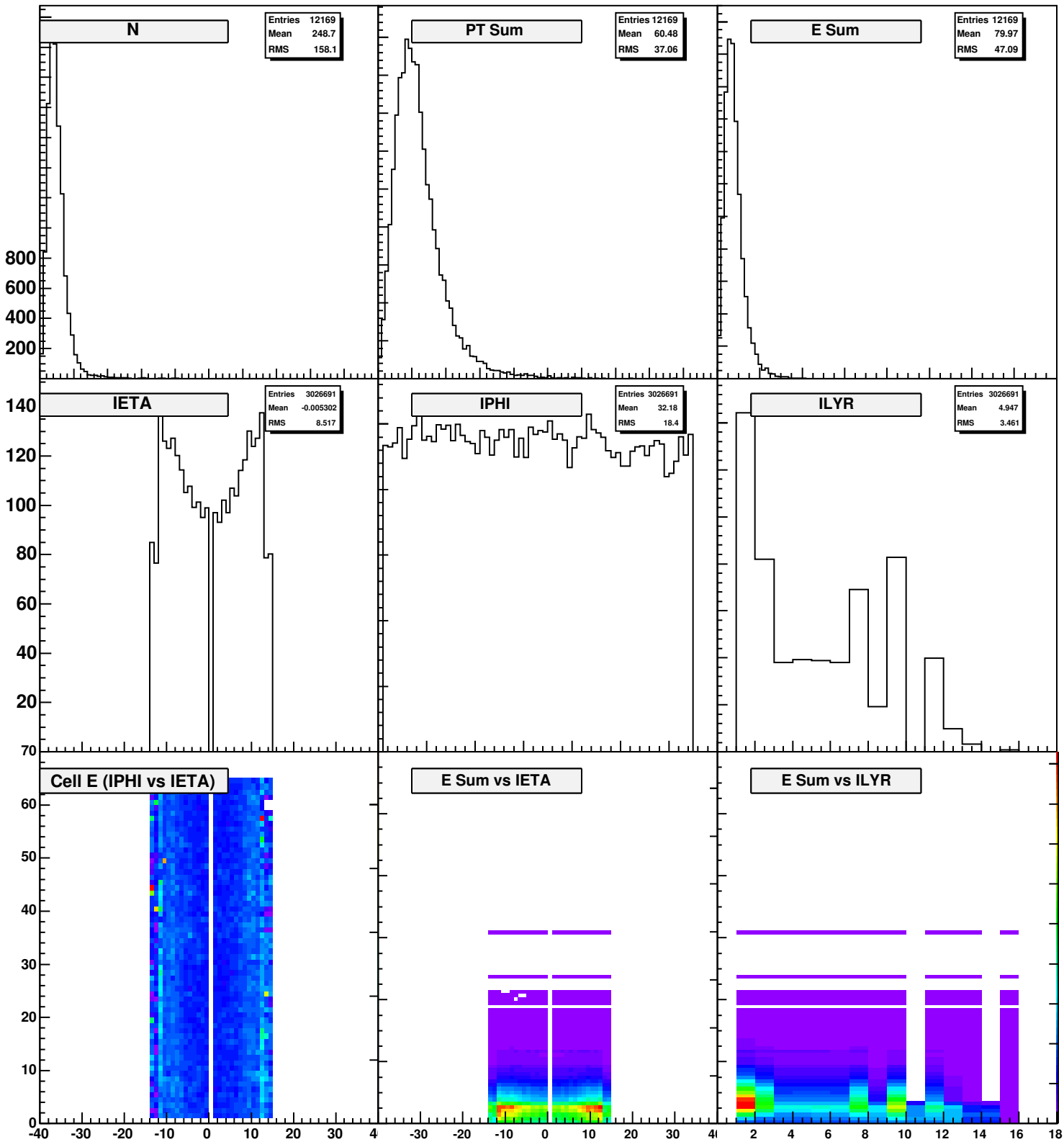
Jets (Cone R 0.7 (standard cuts, MET>30))


SMT barrel clusters
Entries 12169
Mean 3405
RMS 2161
CFT clusters
Entries 12169
Mean 4084
RMS 1547
CAL cells
Entries 12169
Mean 1993
RMS 1031
CPS clusters
Entries 12169
Mean 8.563
RMS 12.53
10^3
10^2
10
1
10^2
10
1
0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Number of cells
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Number of clusters
Detector Occupancy (Detector)

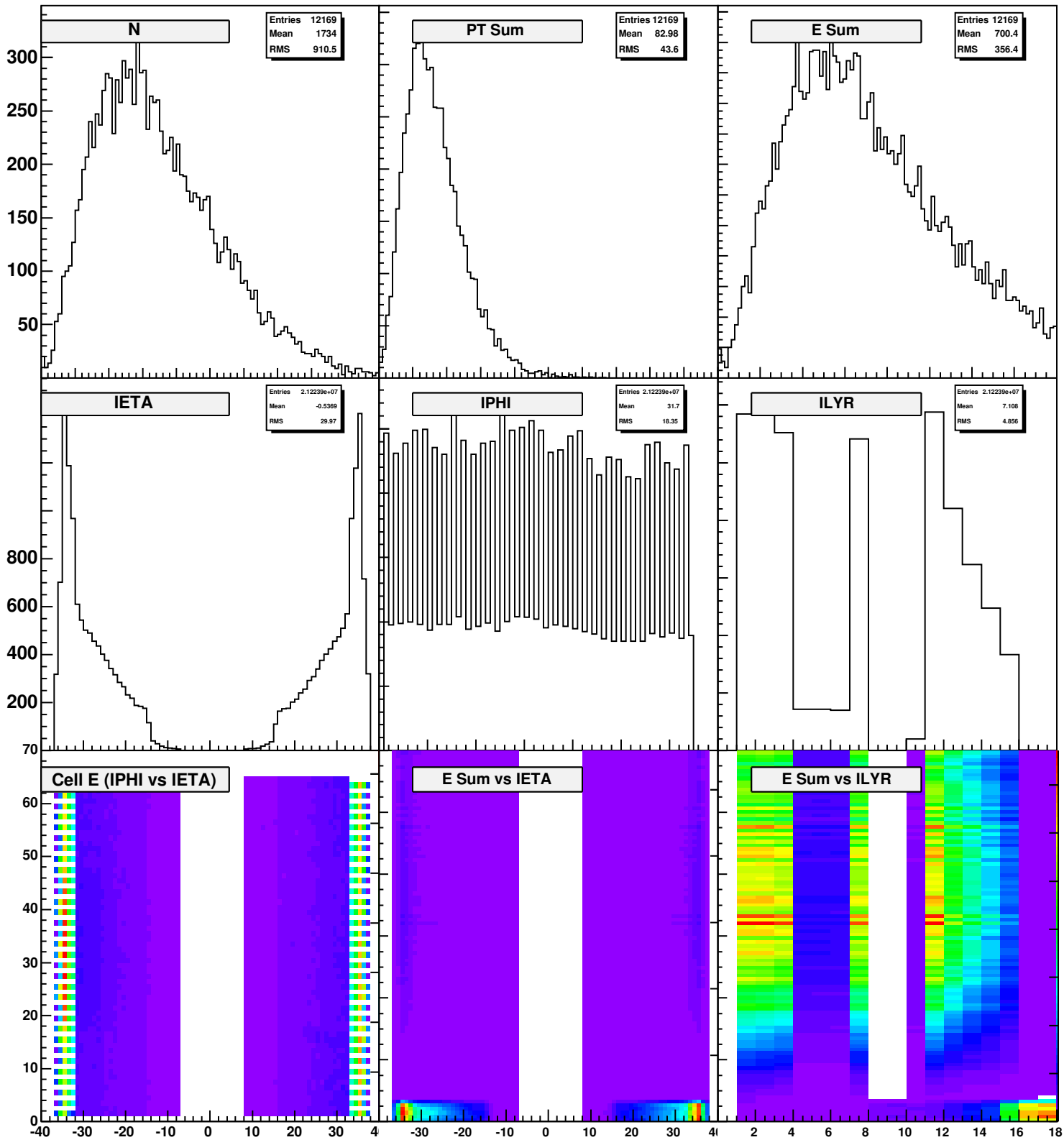

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
100
90
80
70
60
50
40
30
20
10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Detector Occupancy (Detector)



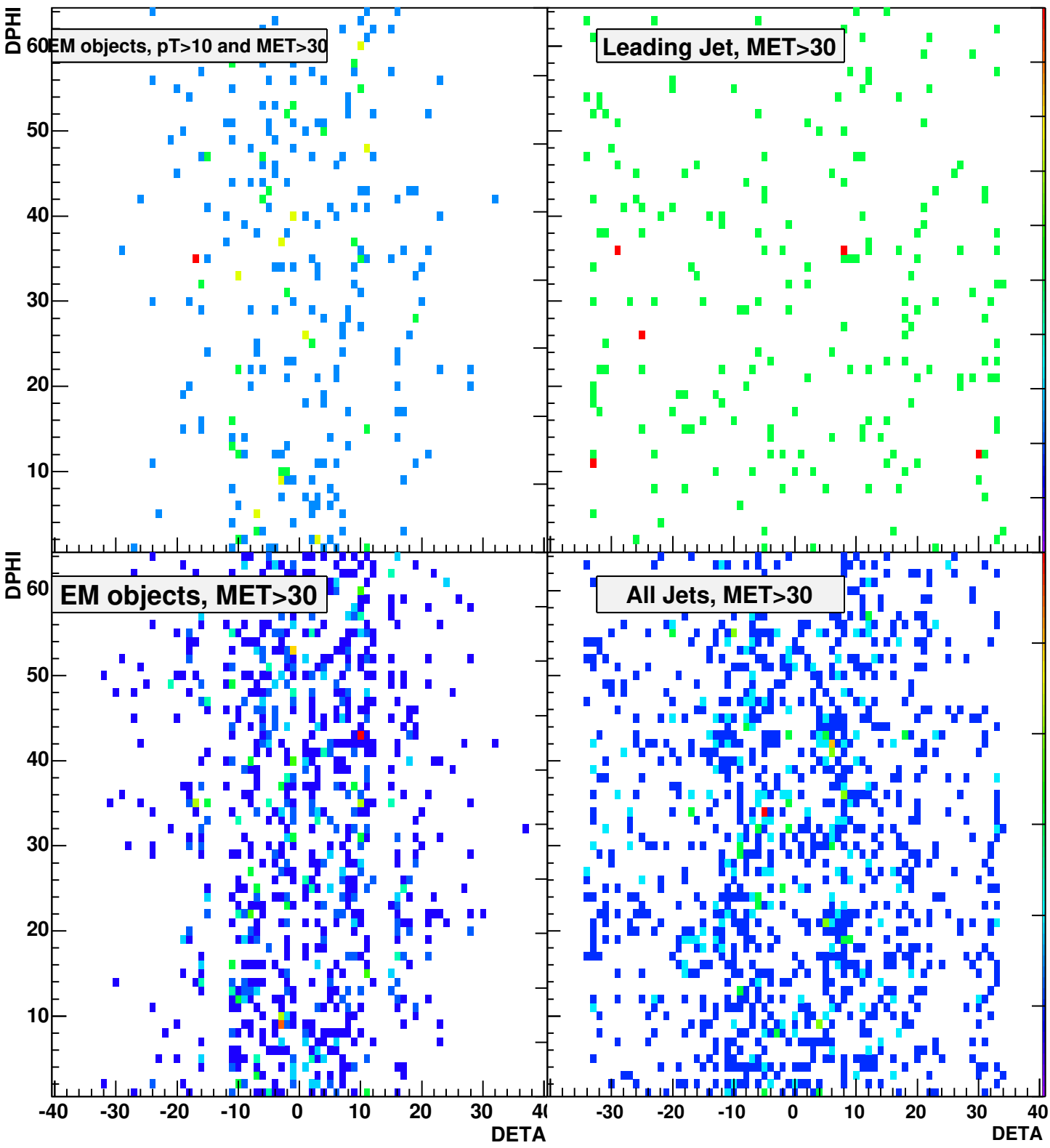
Calorimeter (All cells)



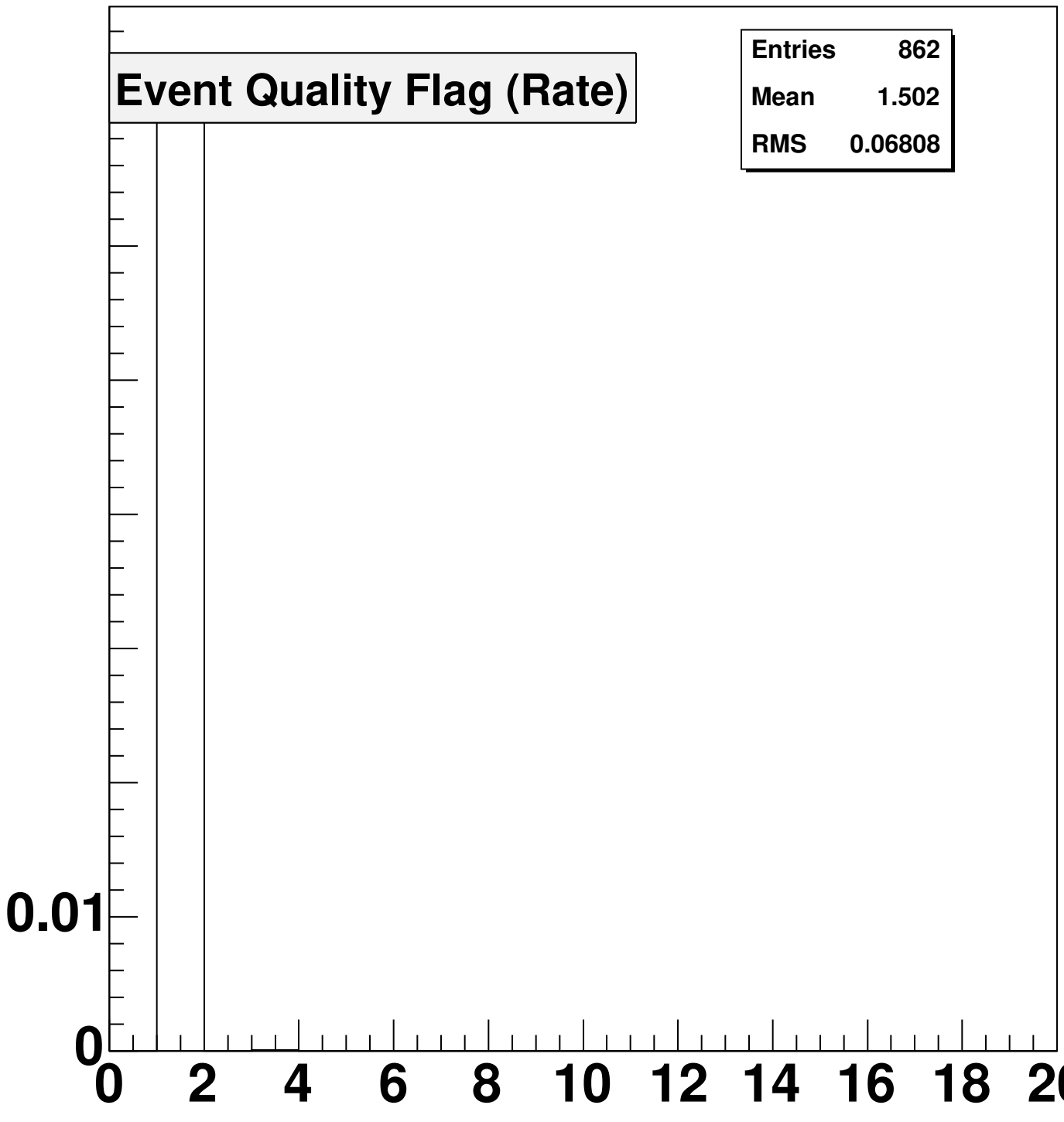
Calorimeter (All CC cells)

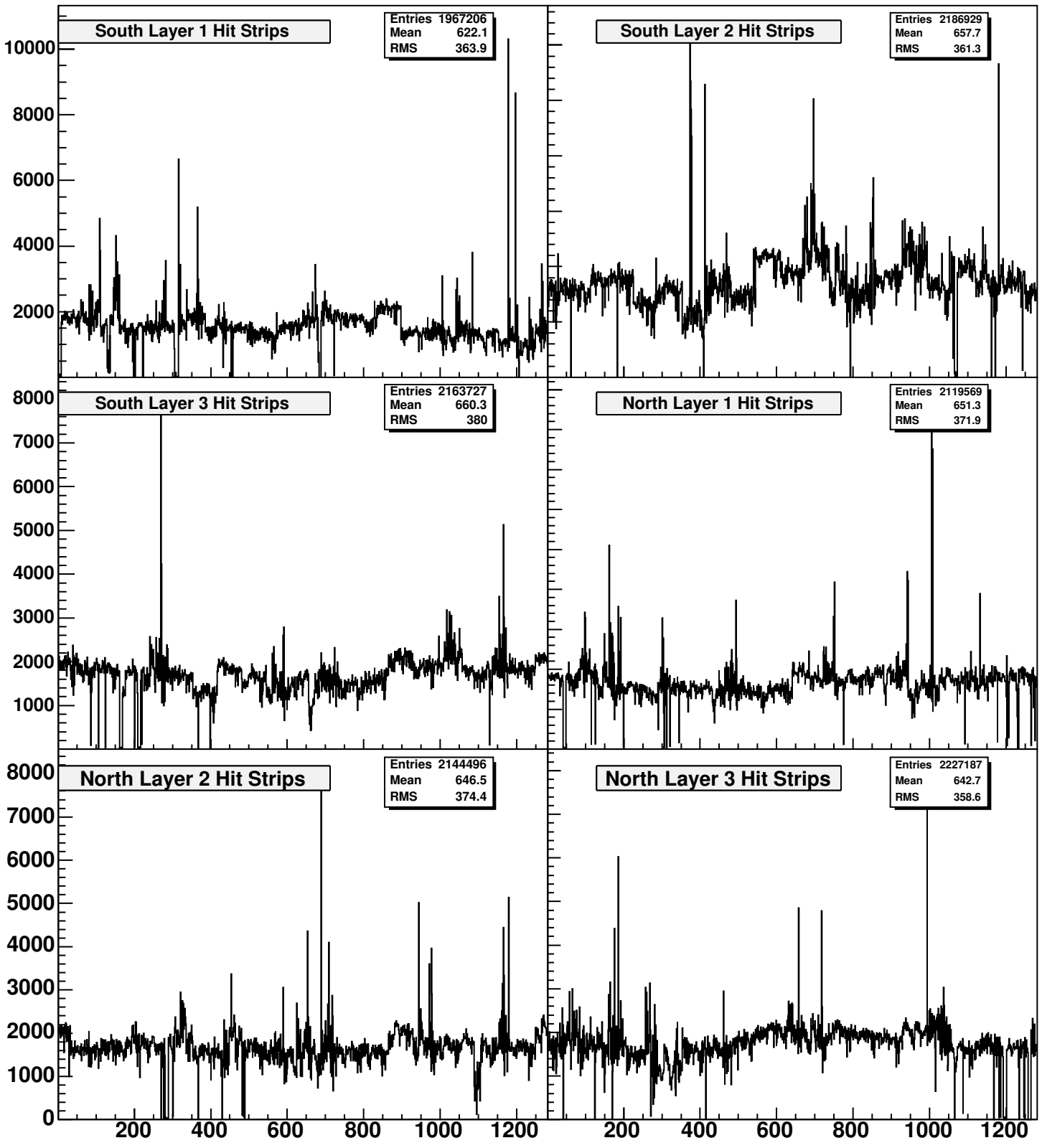


Calorimeter (All EC cells)

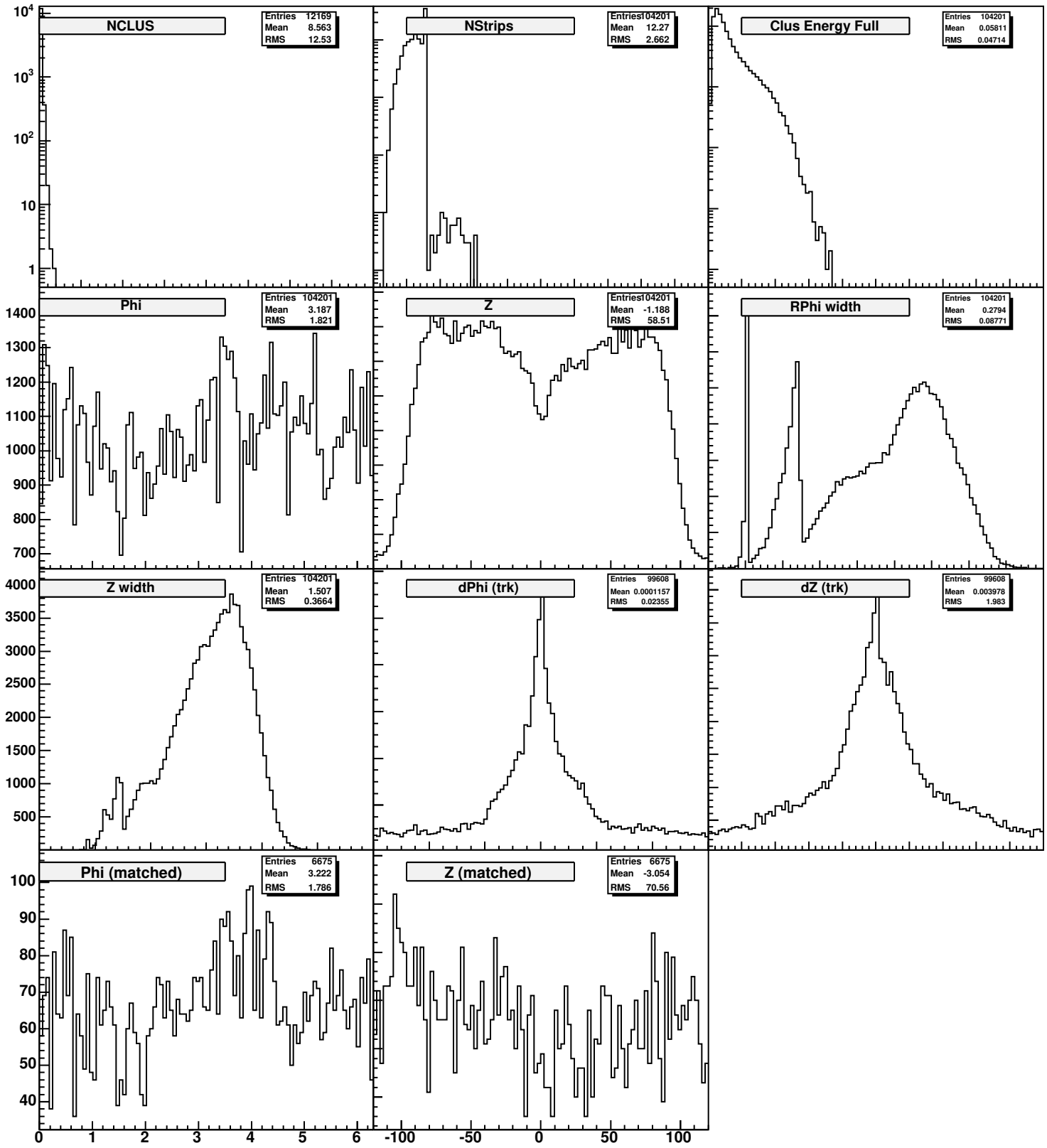


Cal Objects with MET>30 (All cells)

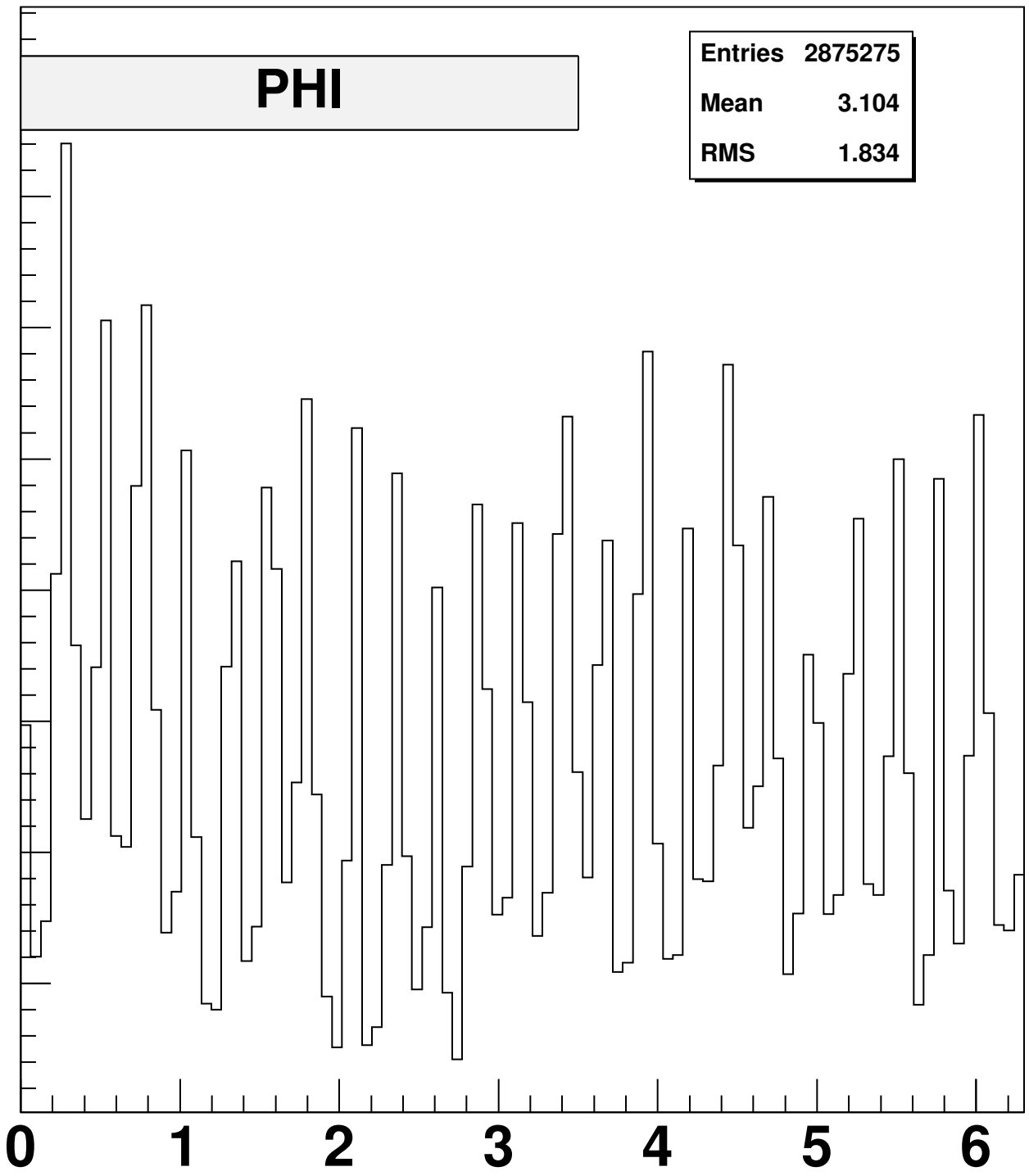

Event Quality Flag (Rate)
Entries 862
Mean 1.502
RMS 0.06808
0.01
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

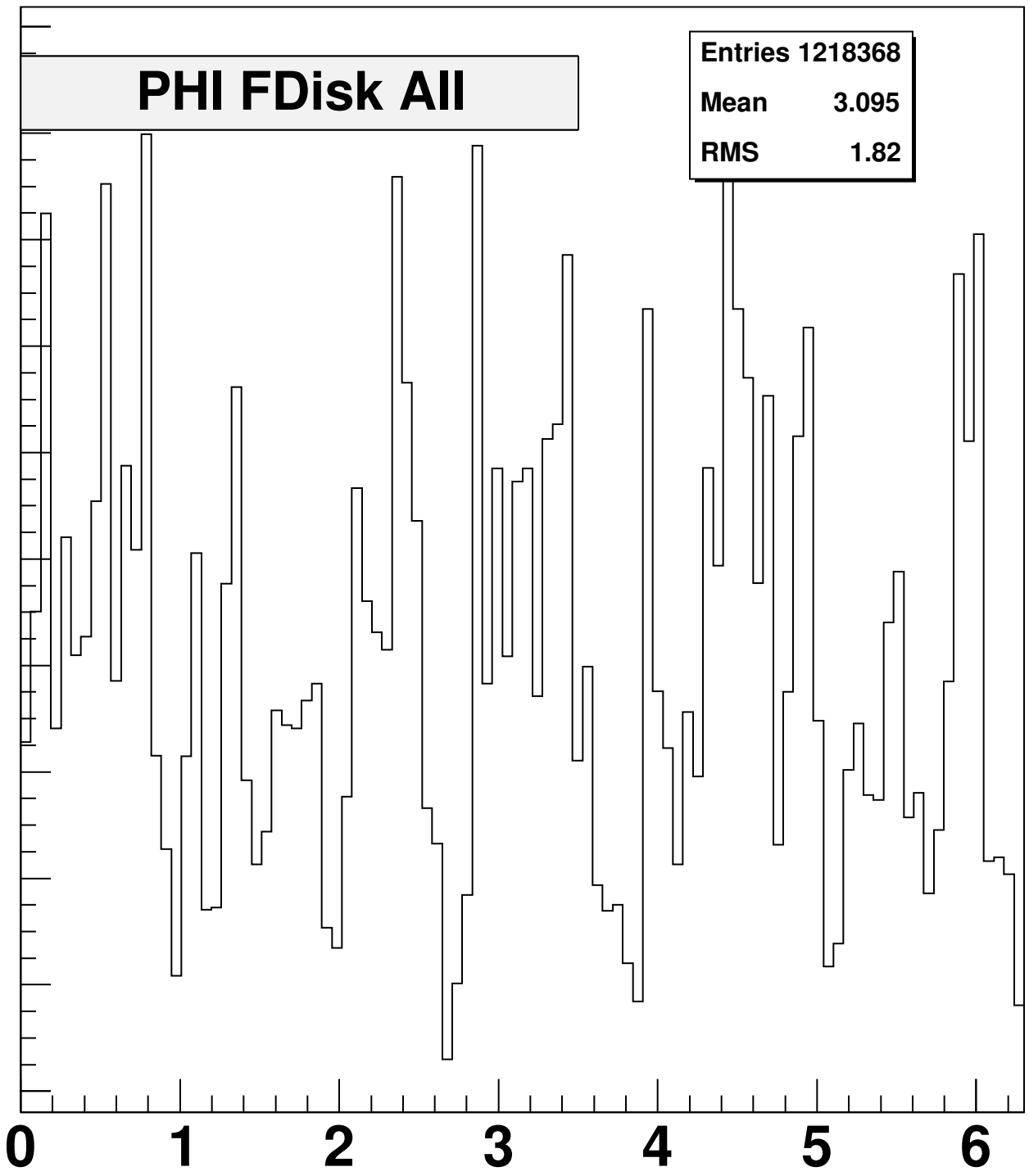


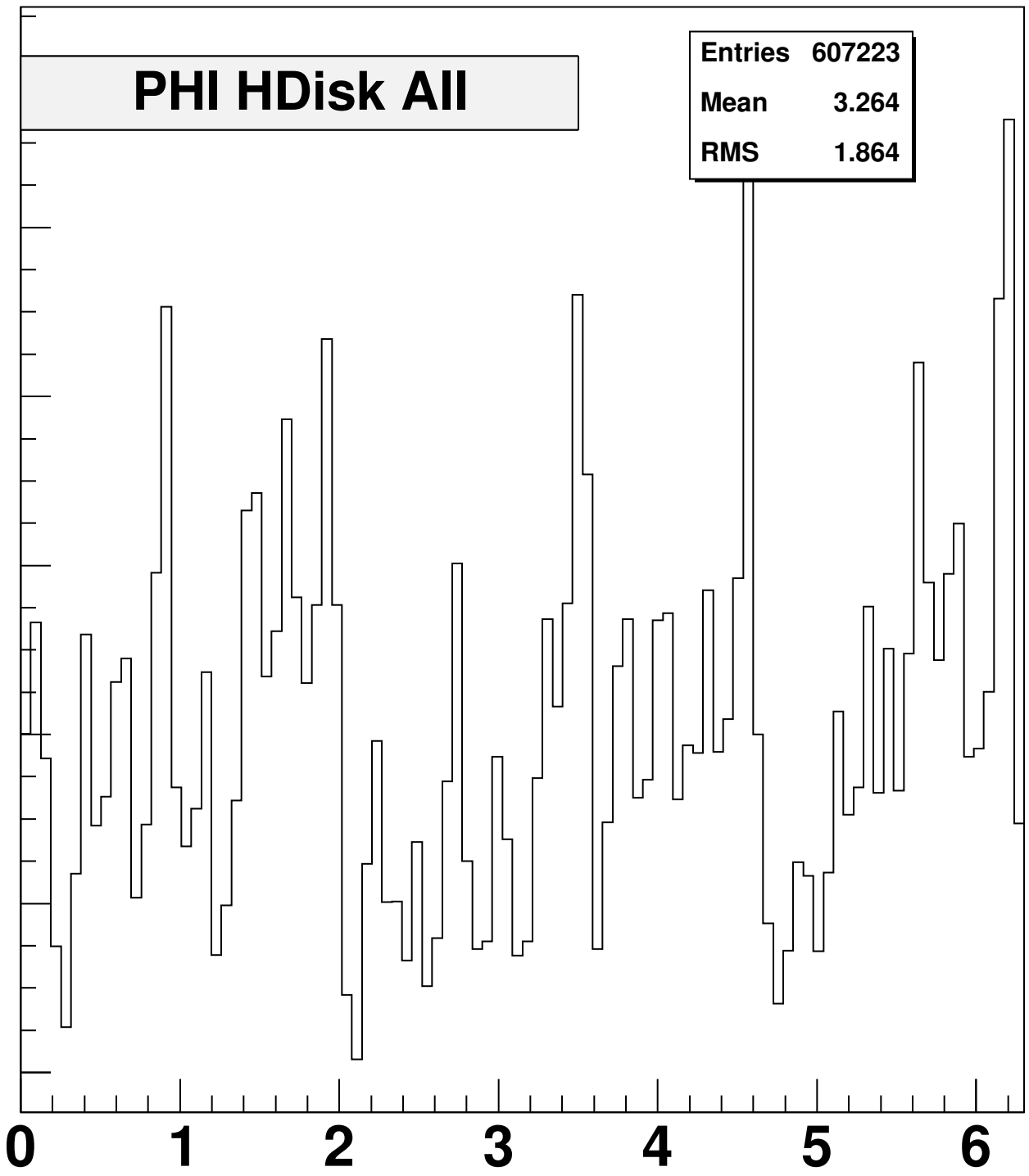
CPS Hit Strips (All Clusters)

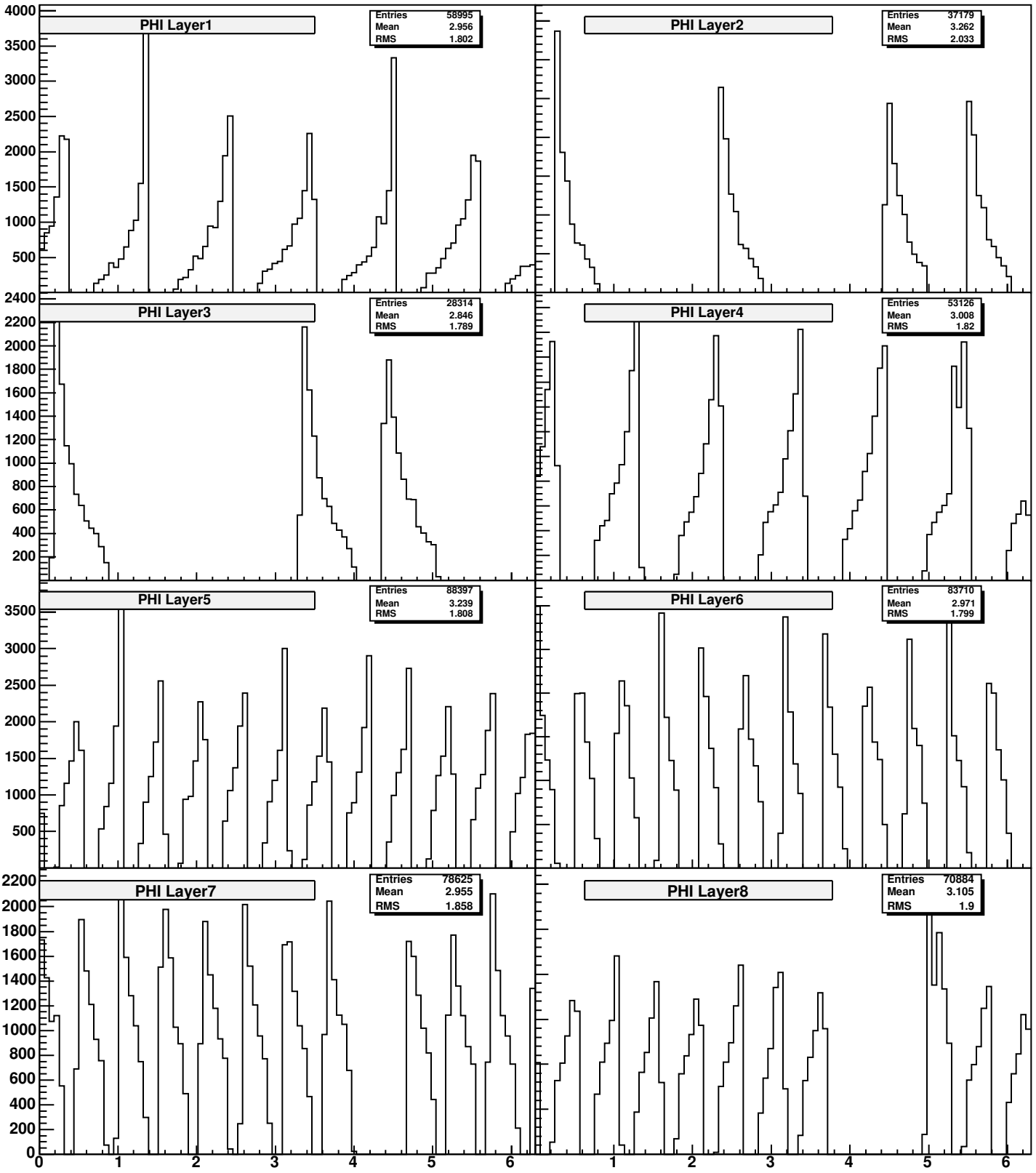


CPS Clusters (All Clusters)

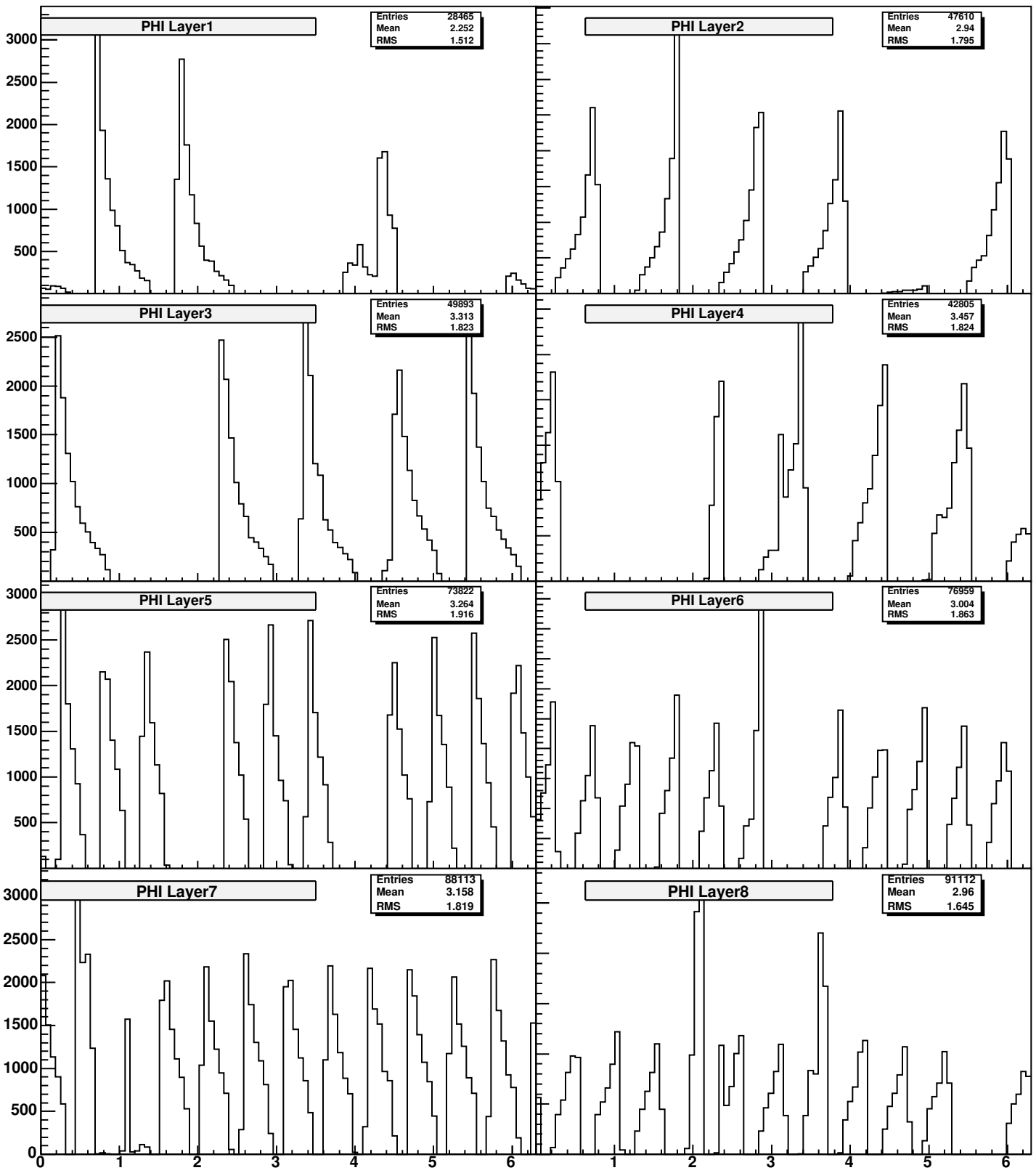

PHI
Entries 2875275
Mean 3.104
RMS 1.834
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


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

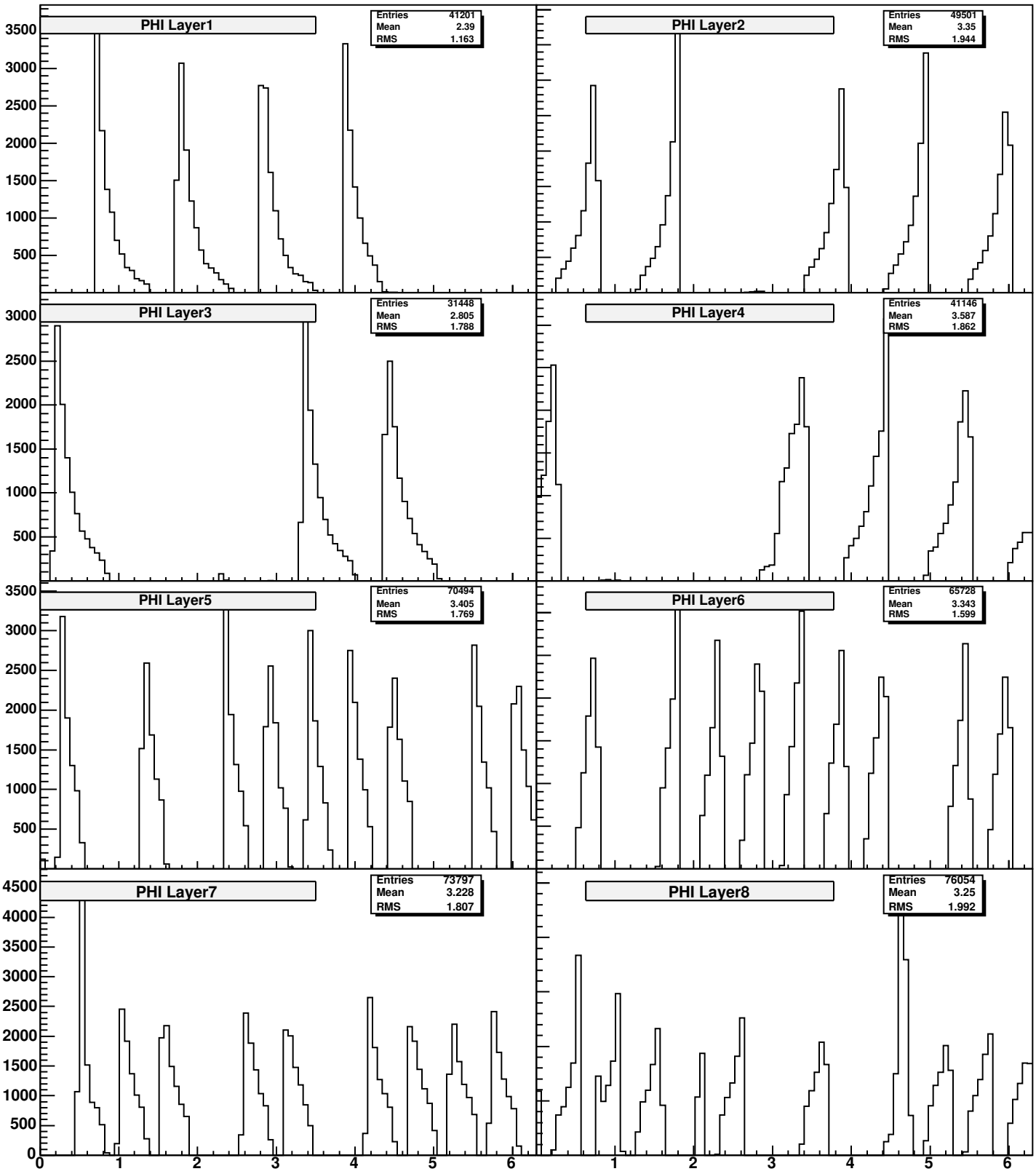

PHI HDisk All
Entries 607223
Mean 3.264
RMS 1.864
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



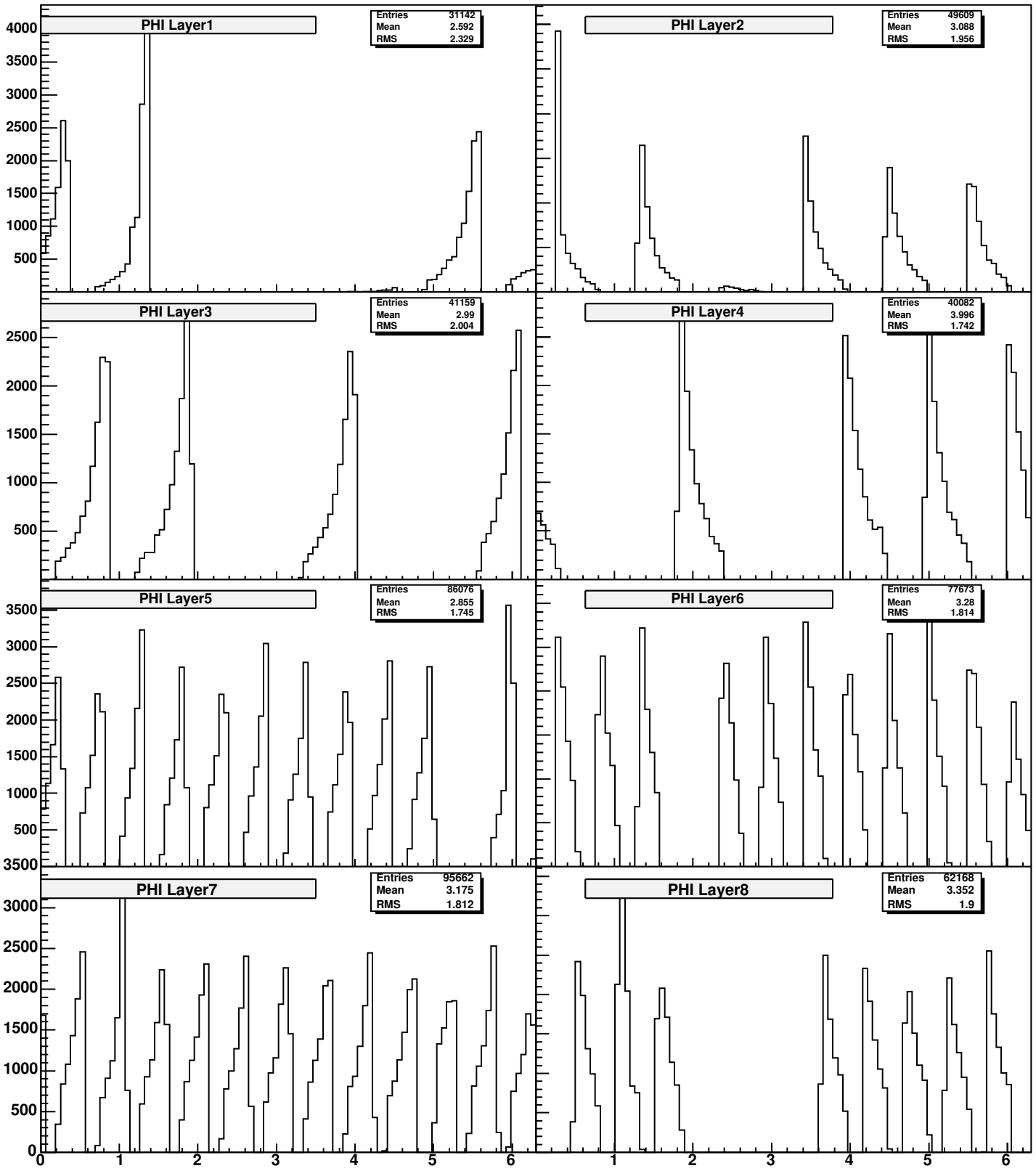
SmtClusters (ClustrBar1)



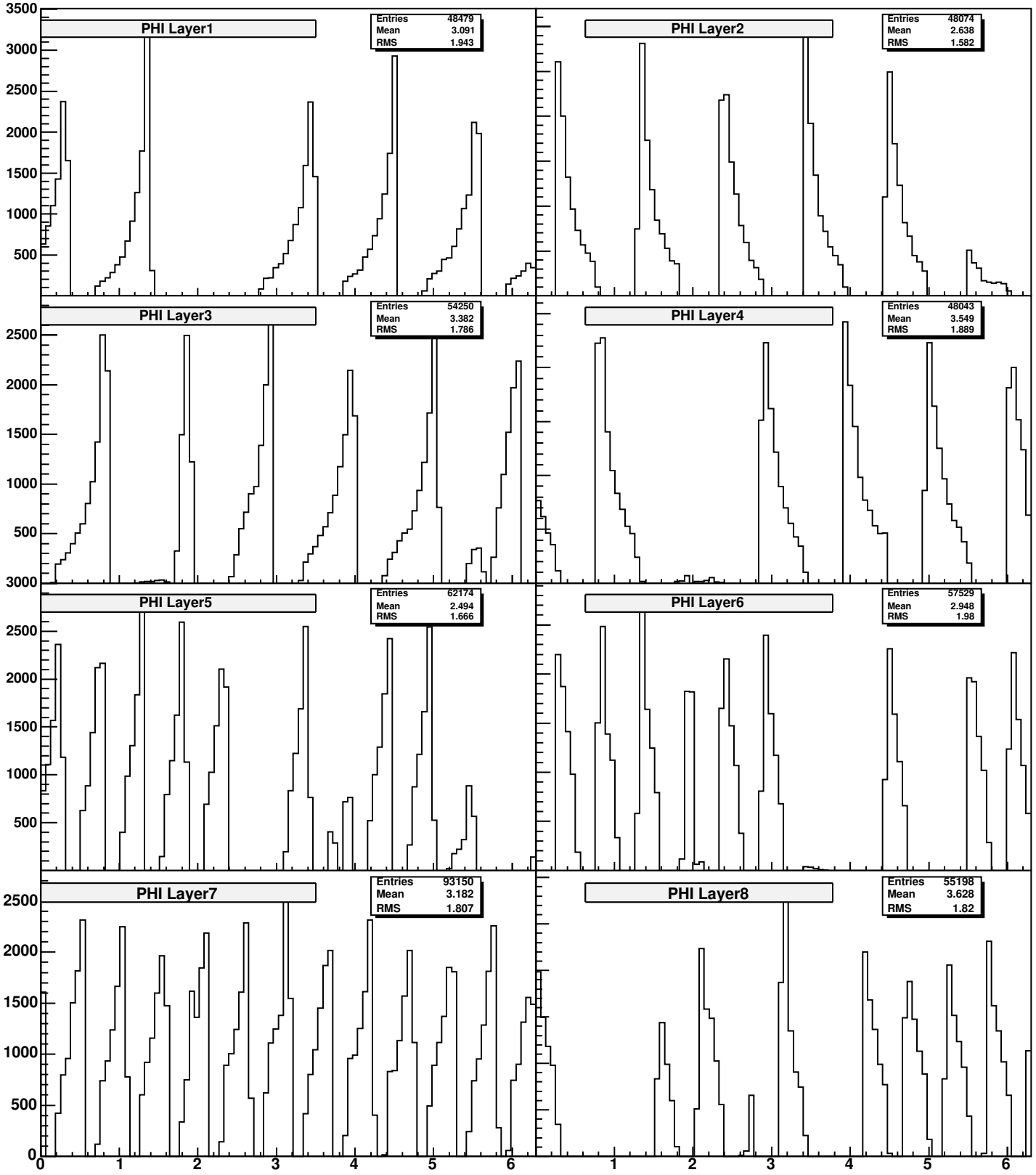
SmtClusters (ClustrBar2)



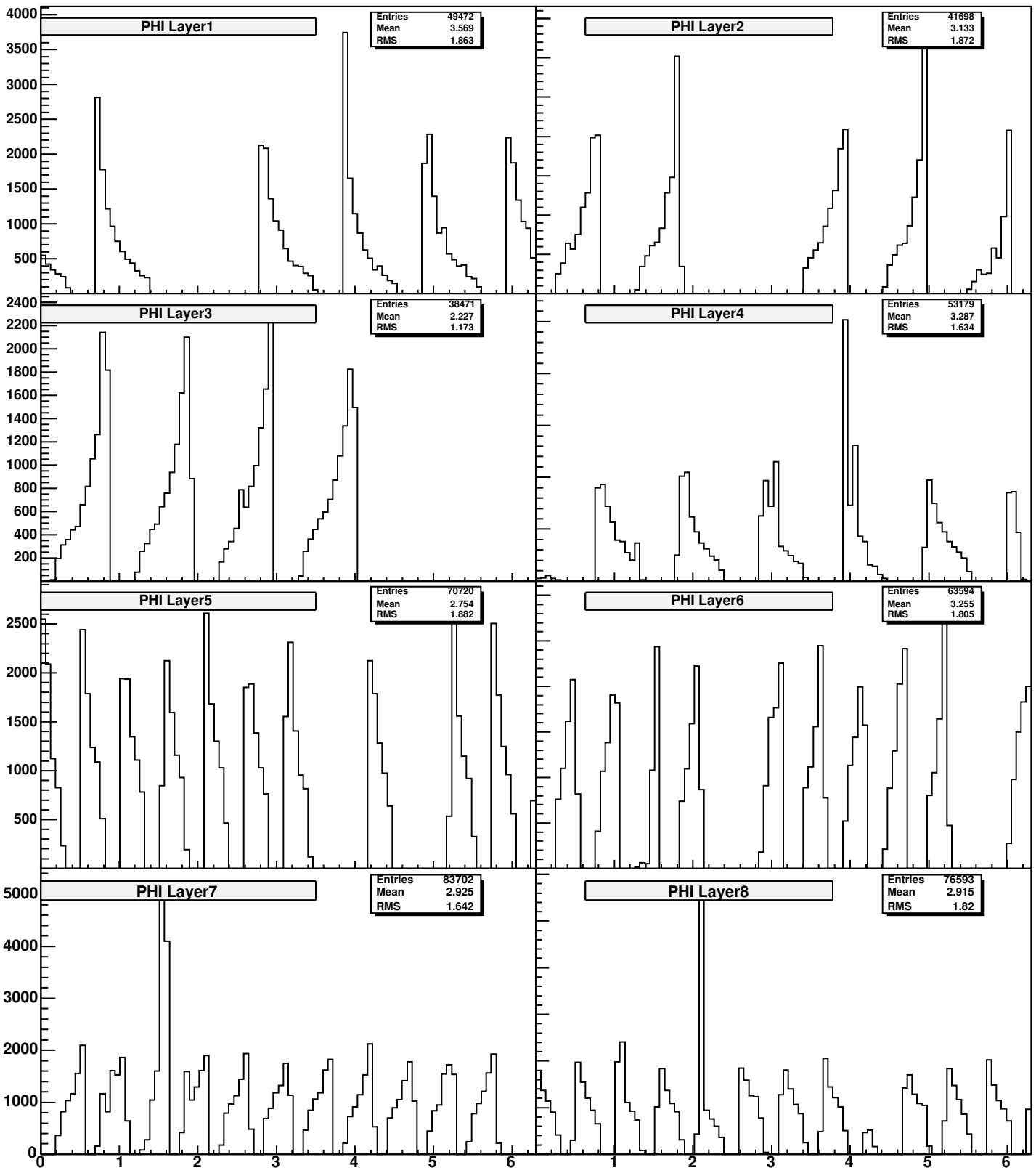
SmtClusters (ClustrBar3)



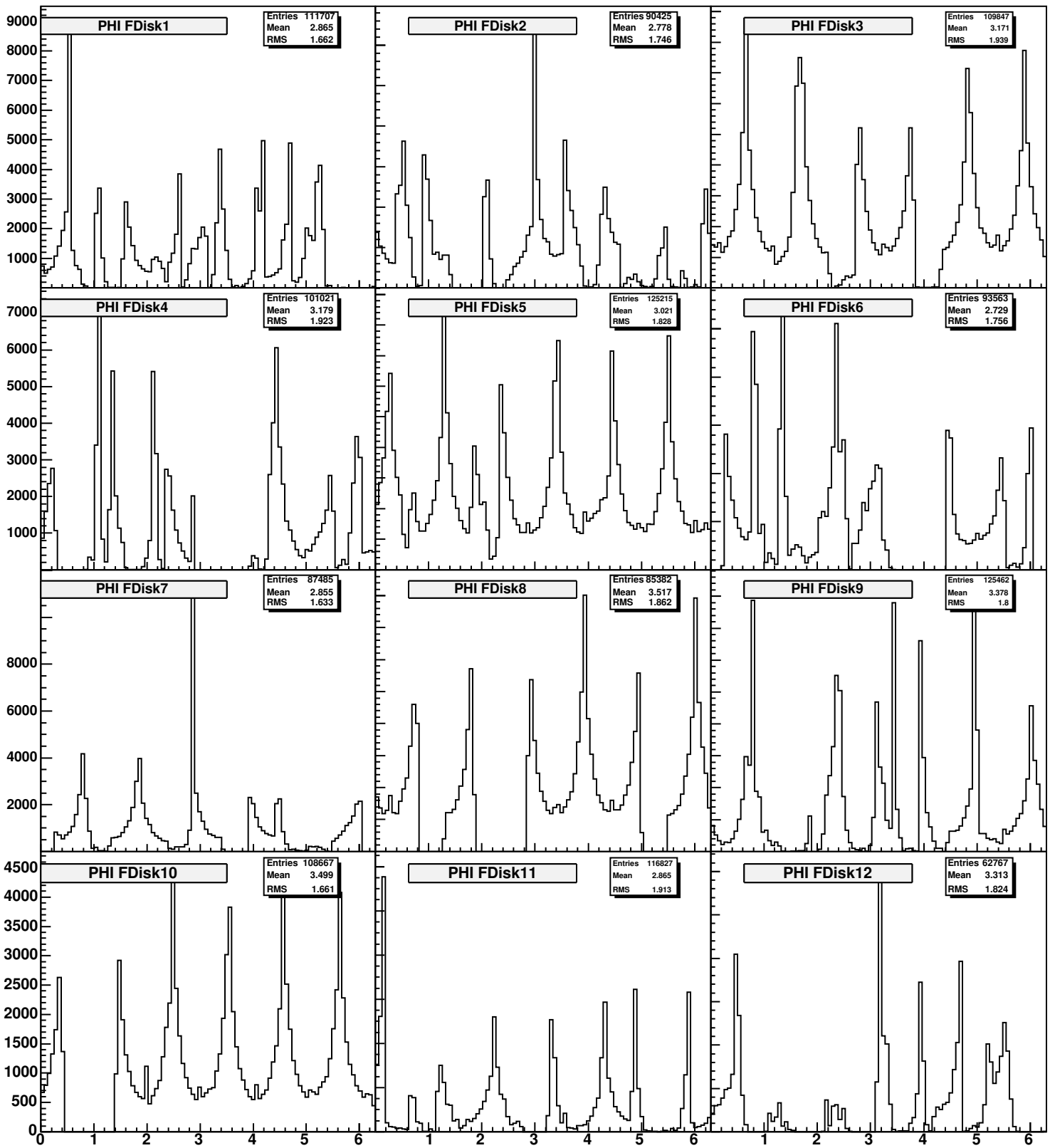
SmtClusters (ClustrBar4)



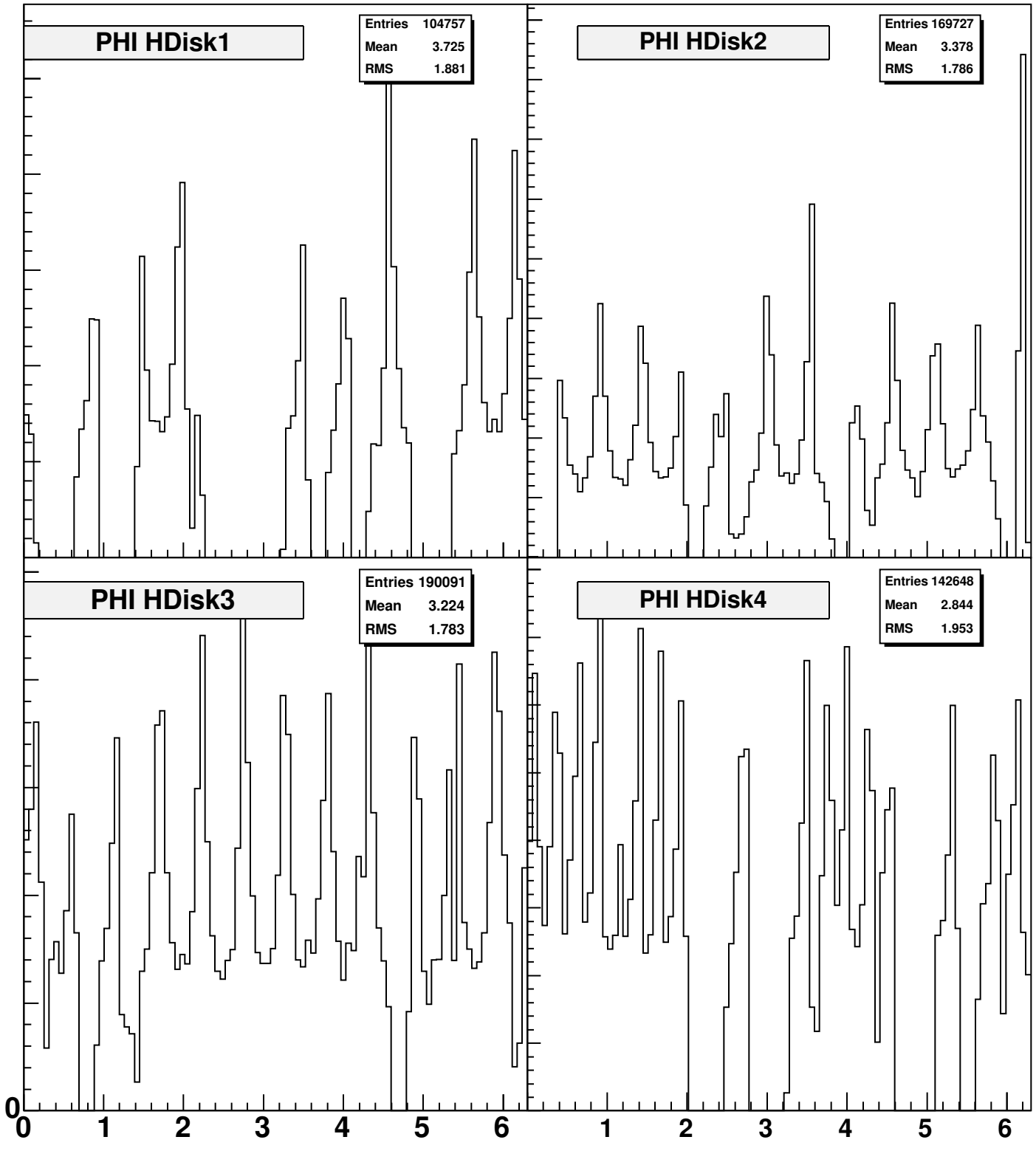
SmtClusters (ClustrBar5)

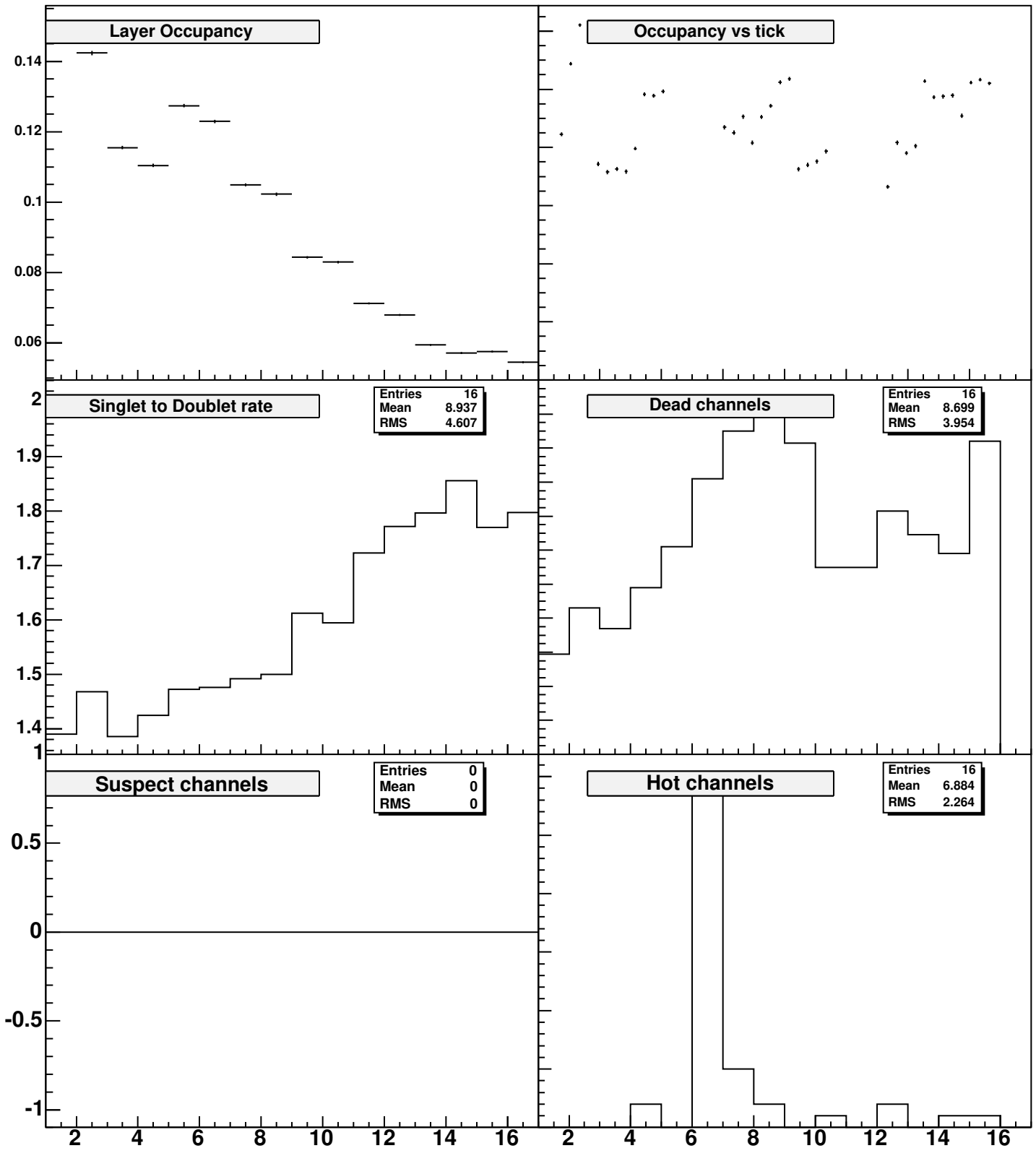


SmtClusters (ClustrBar6)

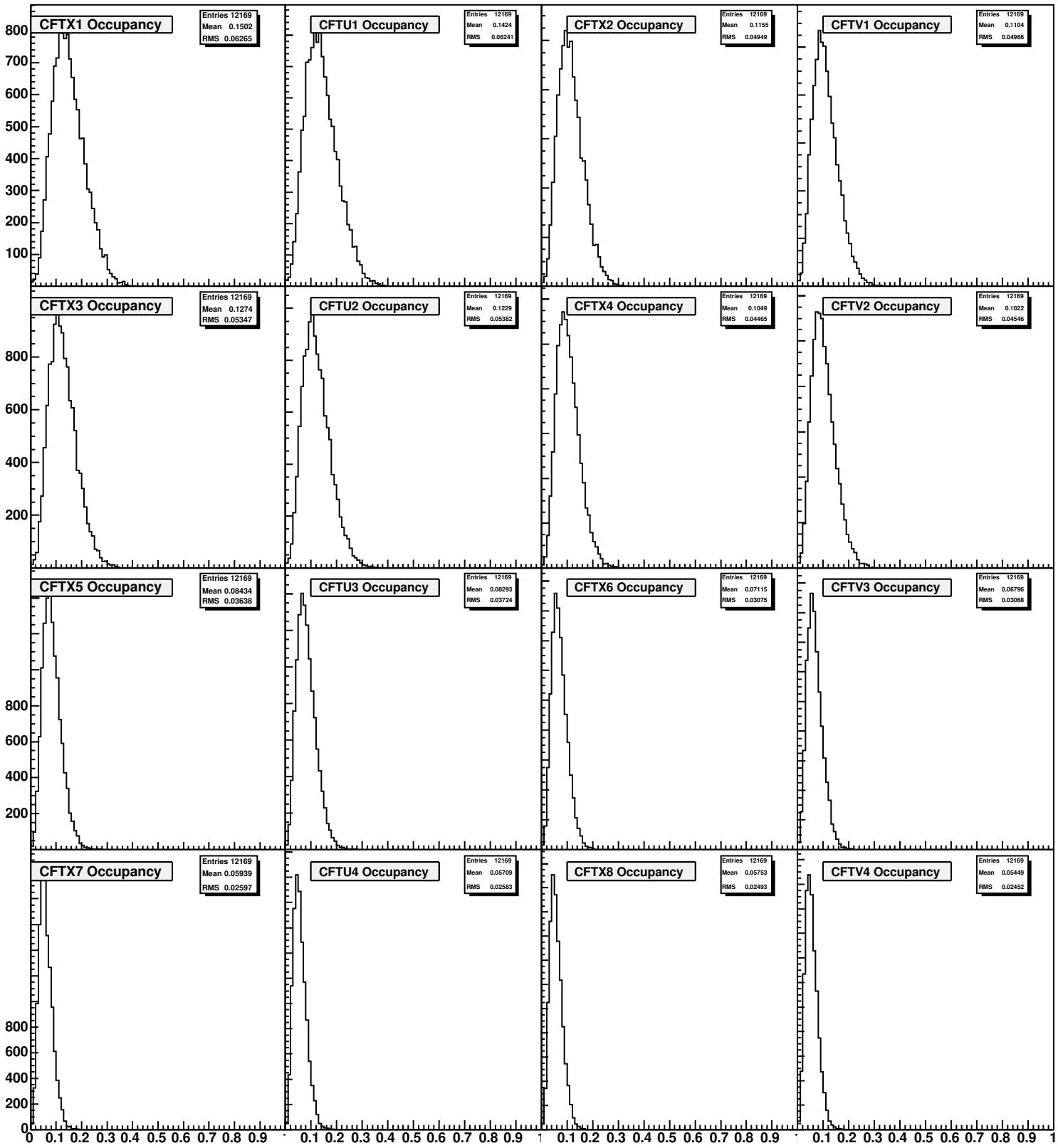


SmtClusters (FDiskClusters)

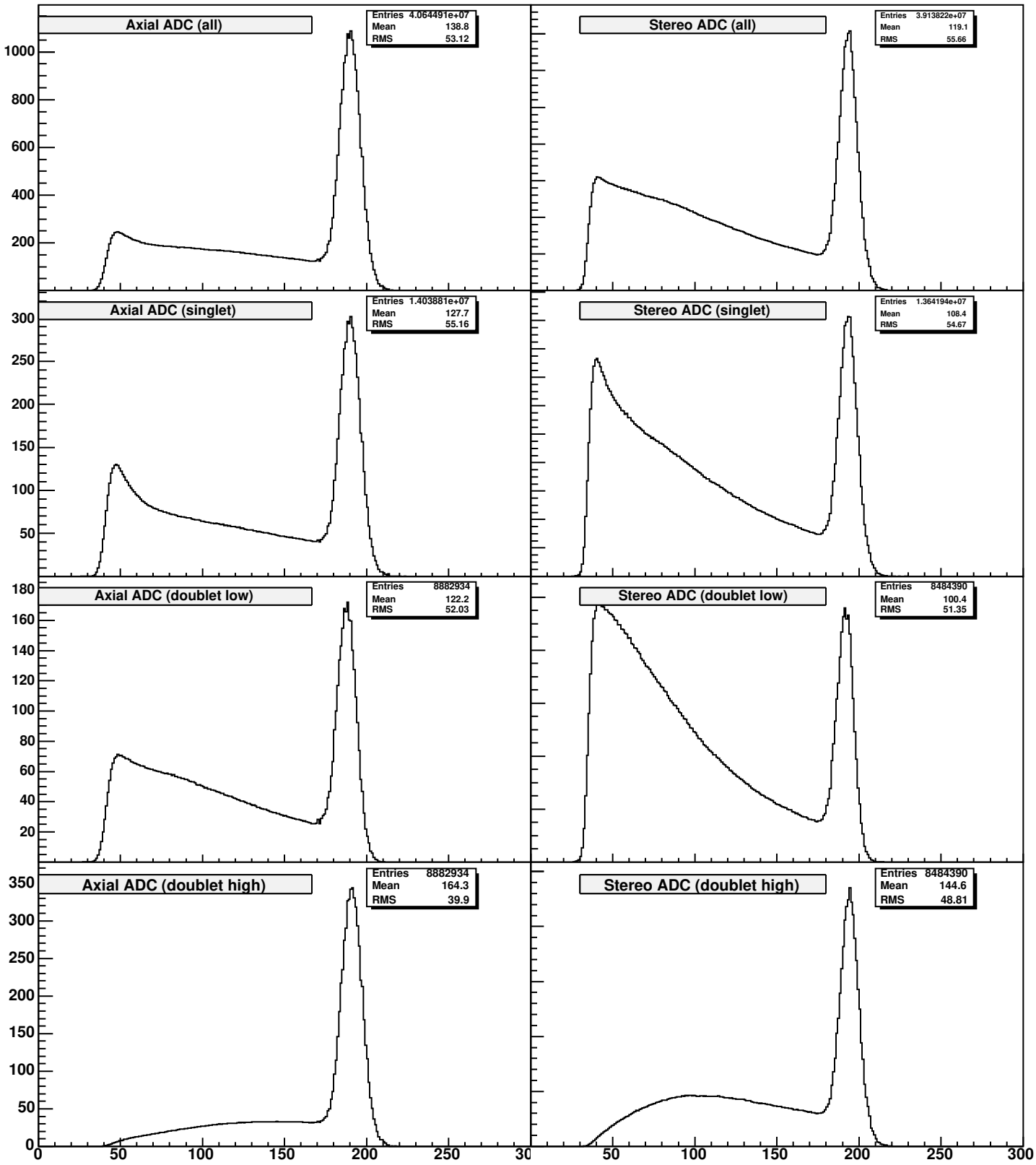

PHI HDisk1
Entries 104757
Mean 3.725
RMS 1.881
PHI HDisk2
Entries 169727
Mean 3.378
RMS 1.786
PHI HDisk3
Entries 190091
Mean 3.224
RMS 1.783
PHI HDisk4
Entries 142648
Mean 2.844
RMS 1.953
0
0 1 2 3 4 5 6
1 2 3 4 5 6
SmtClusters (HDiskClusters)



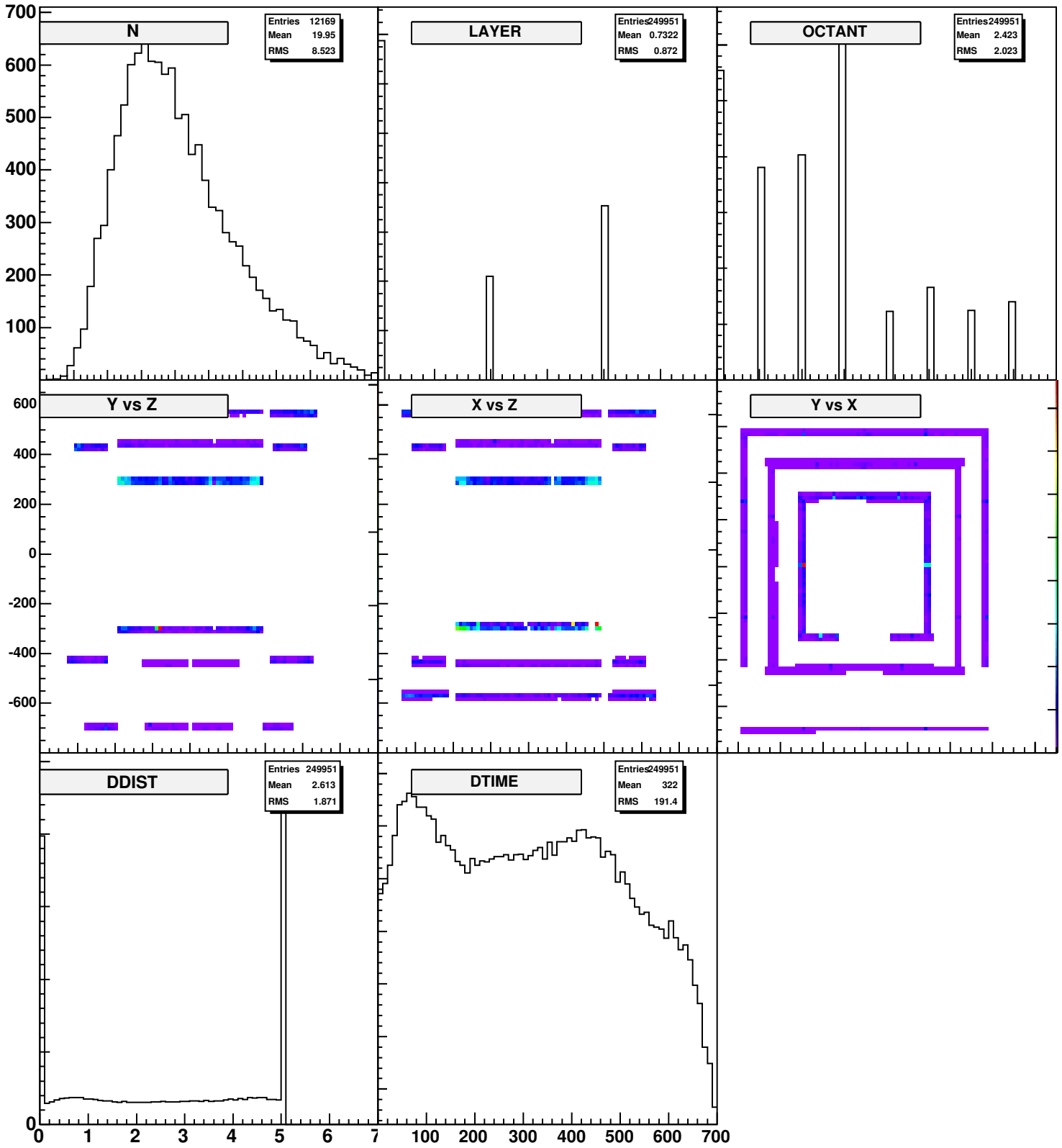
CFT Summary (All Clusters)



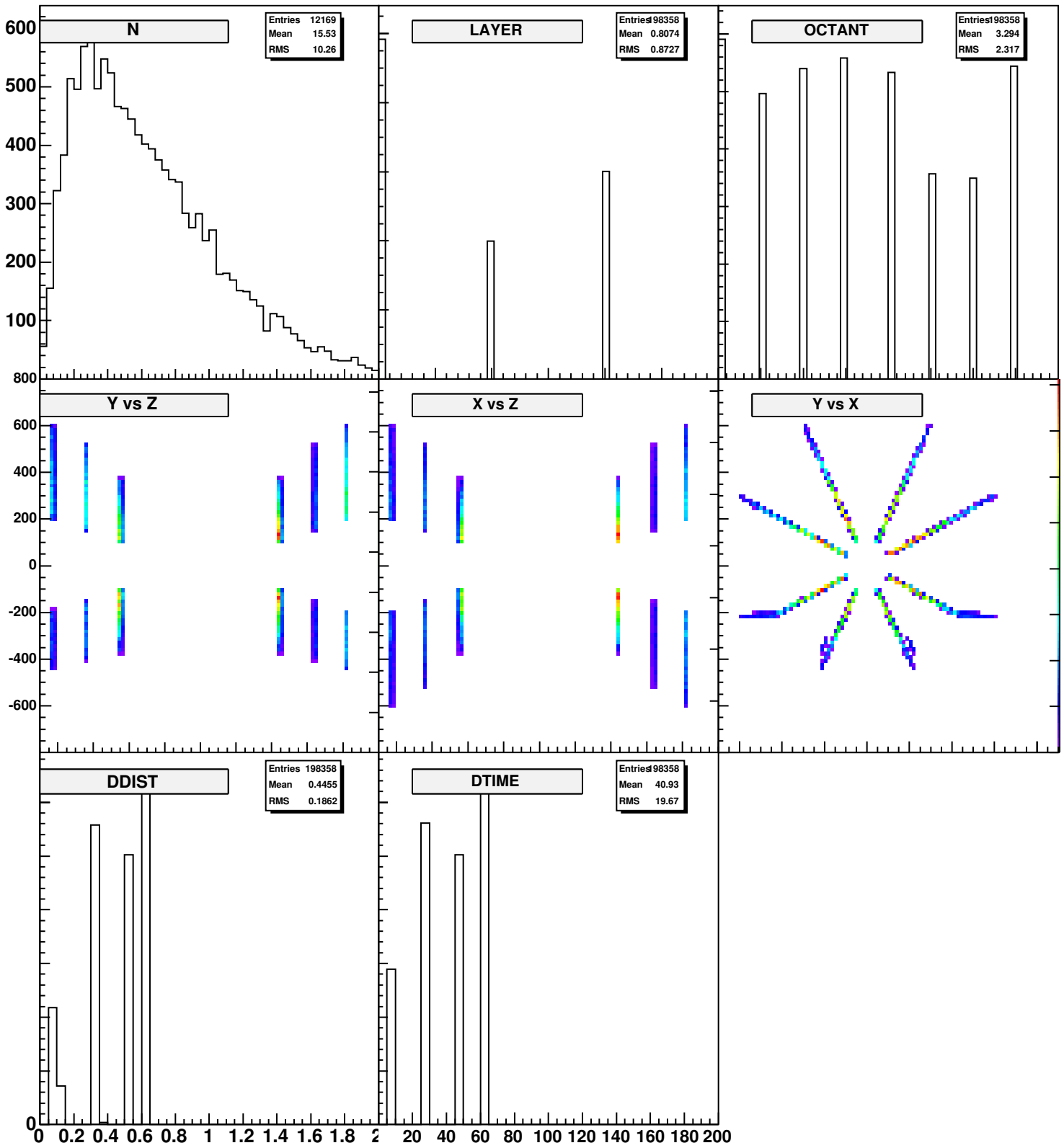
CFT Occupancy (All Clusters)



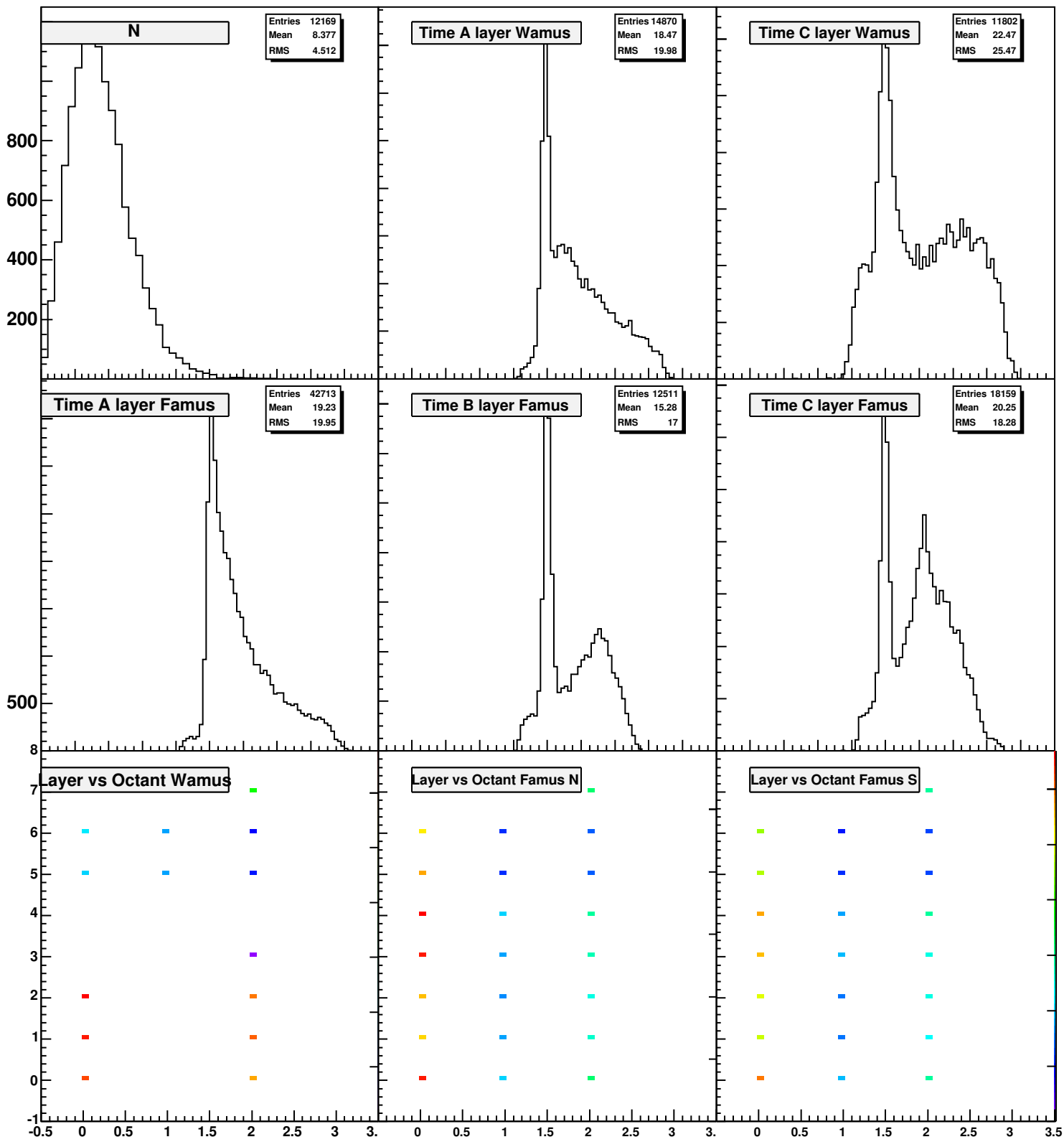
CFT ADC Summary (All Clusters)


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

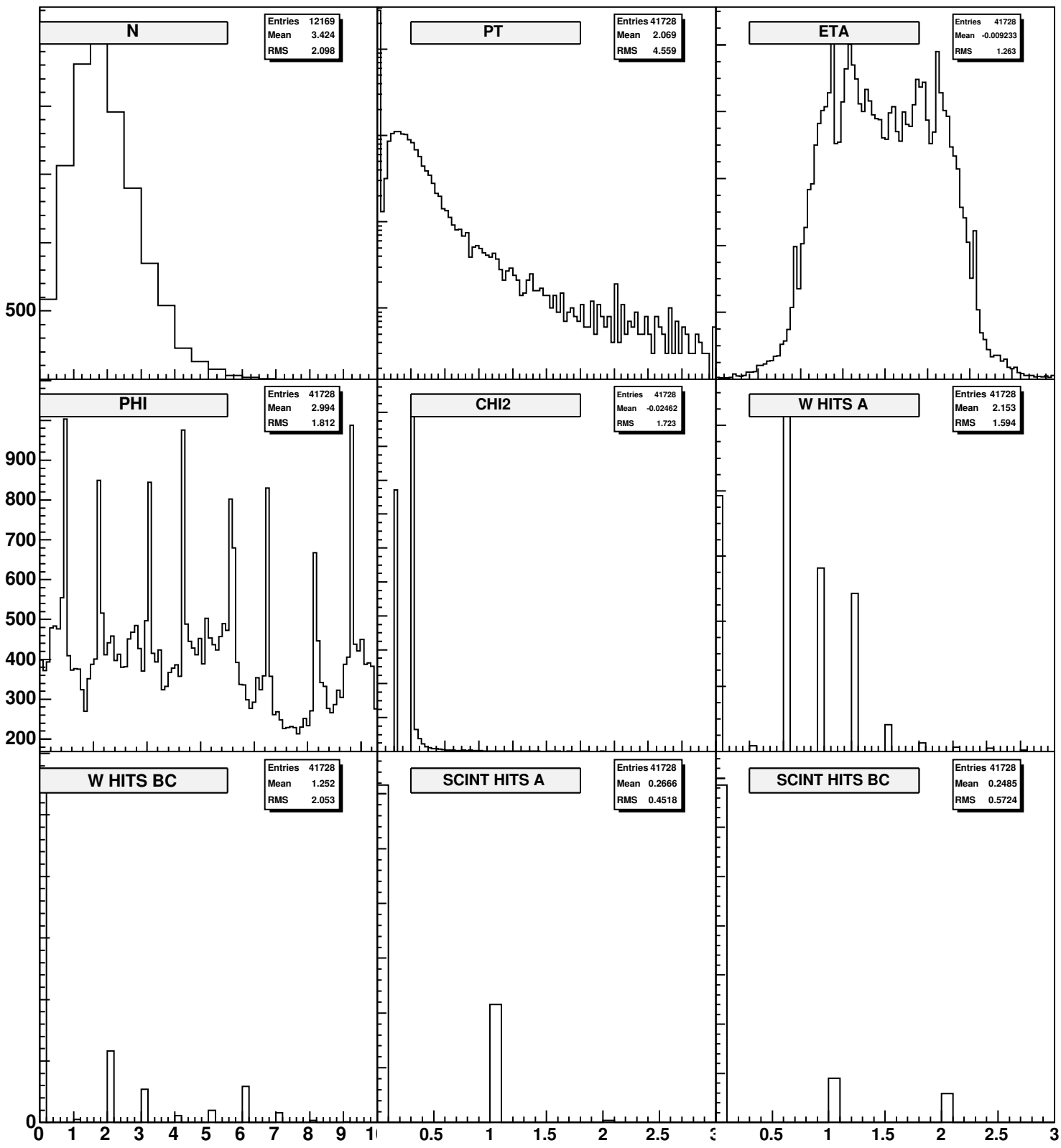
MuonPDT (All)


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

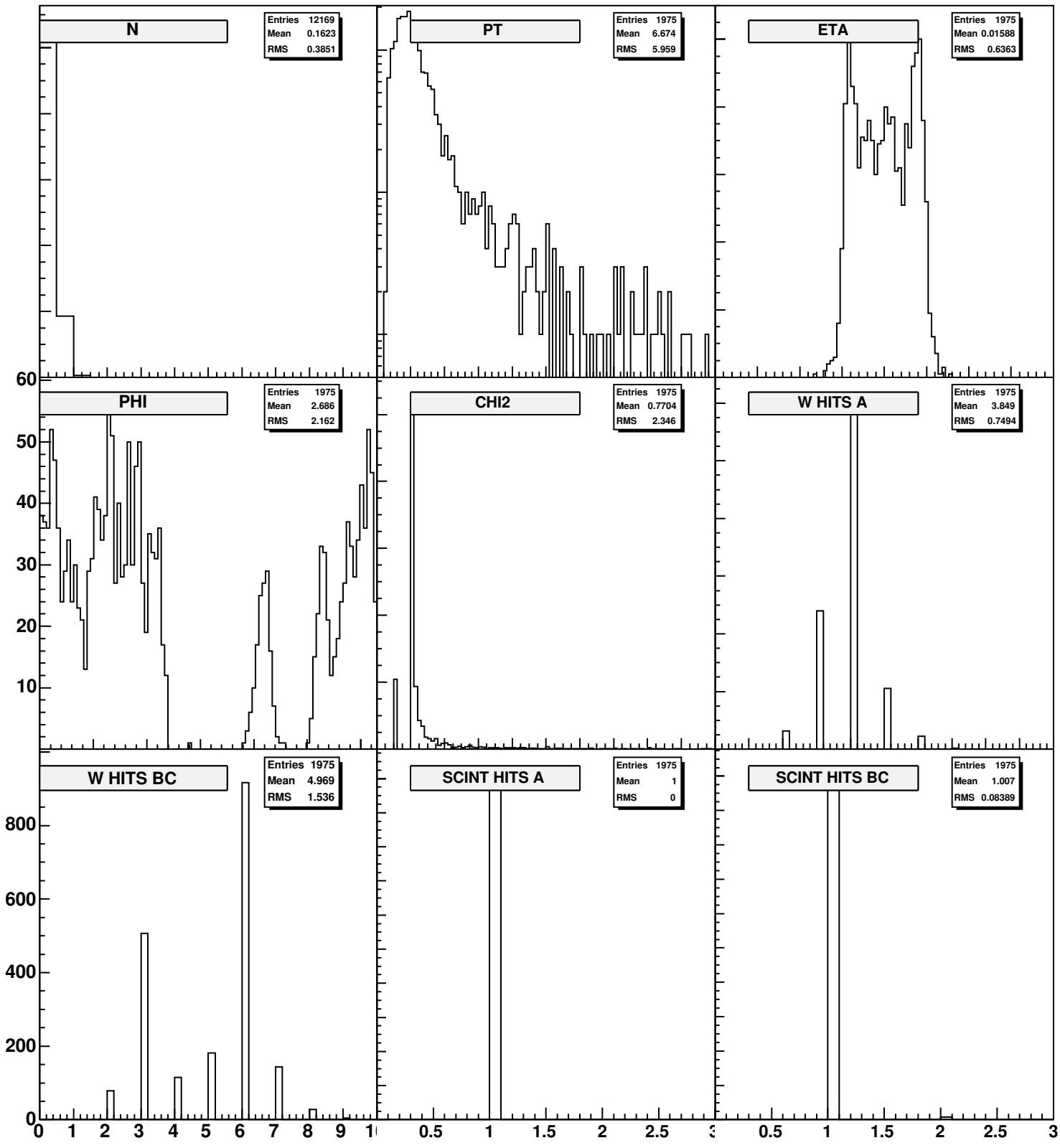
MuonMDT (All)


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

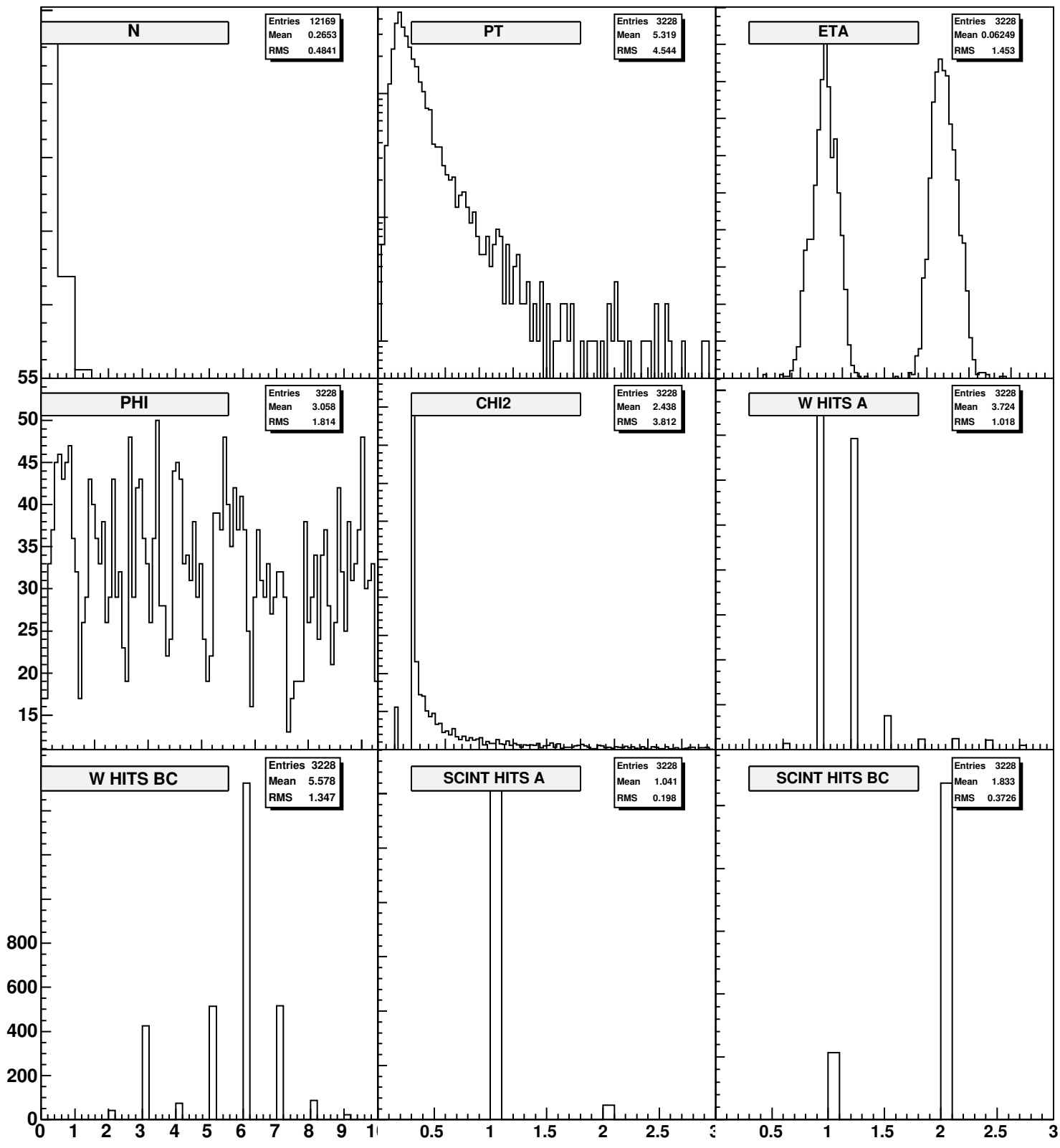
MuonMSC (All)



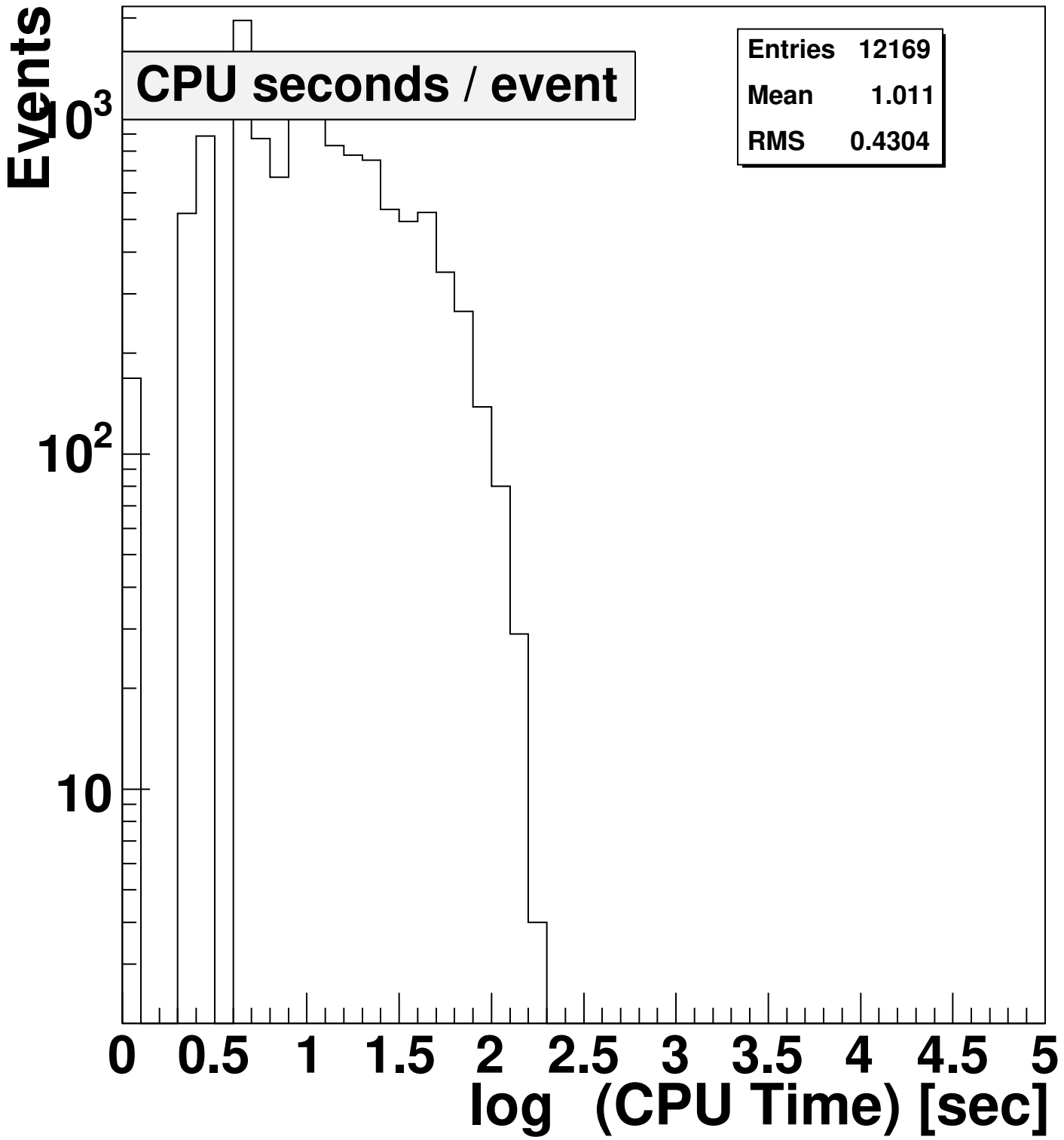
Muon Local Tracks (All)



Muon Local Tracks (MediumWamus)



Muon Local Tracks (MediumFamus)



RECO Performance (Timing)