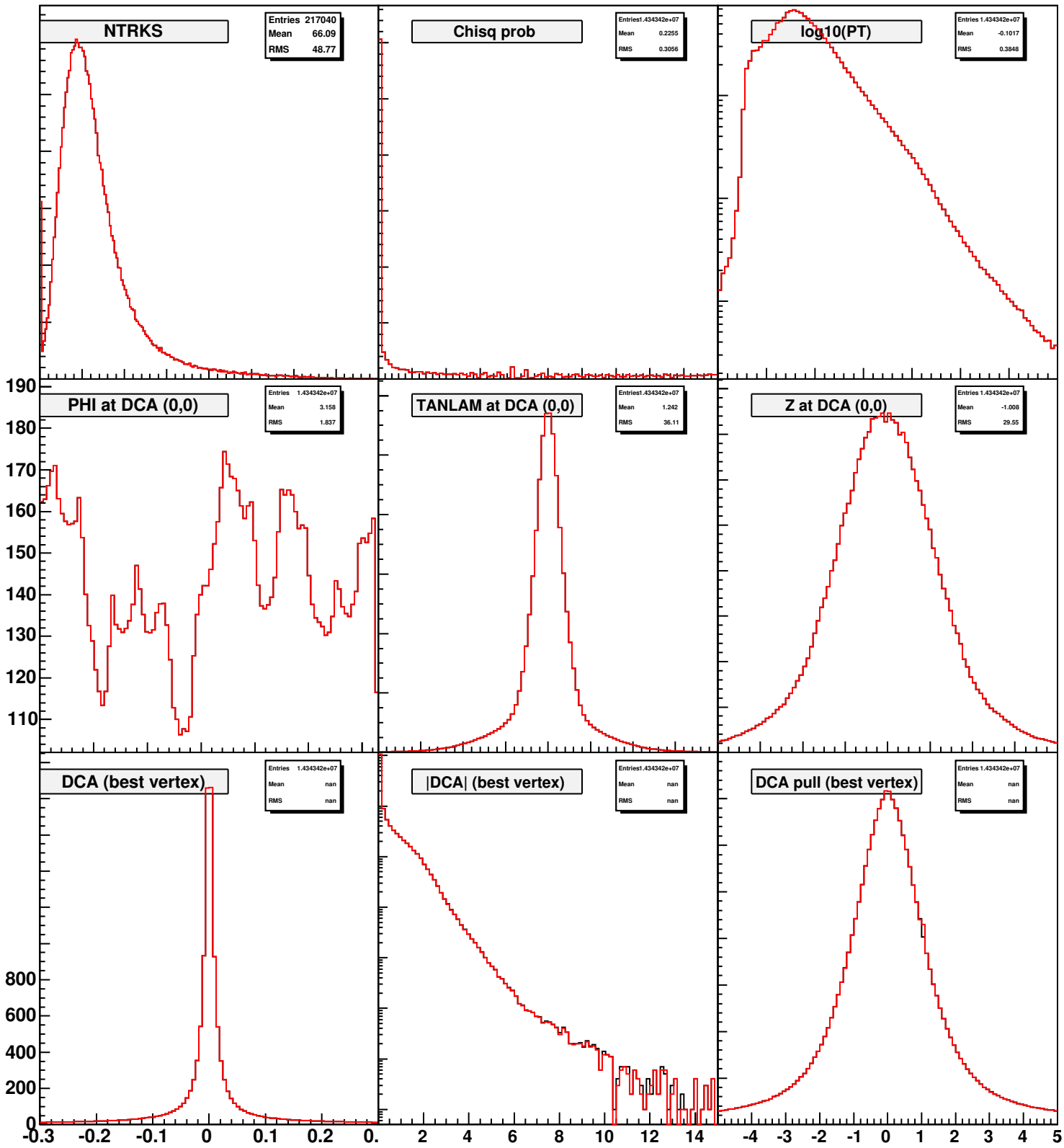
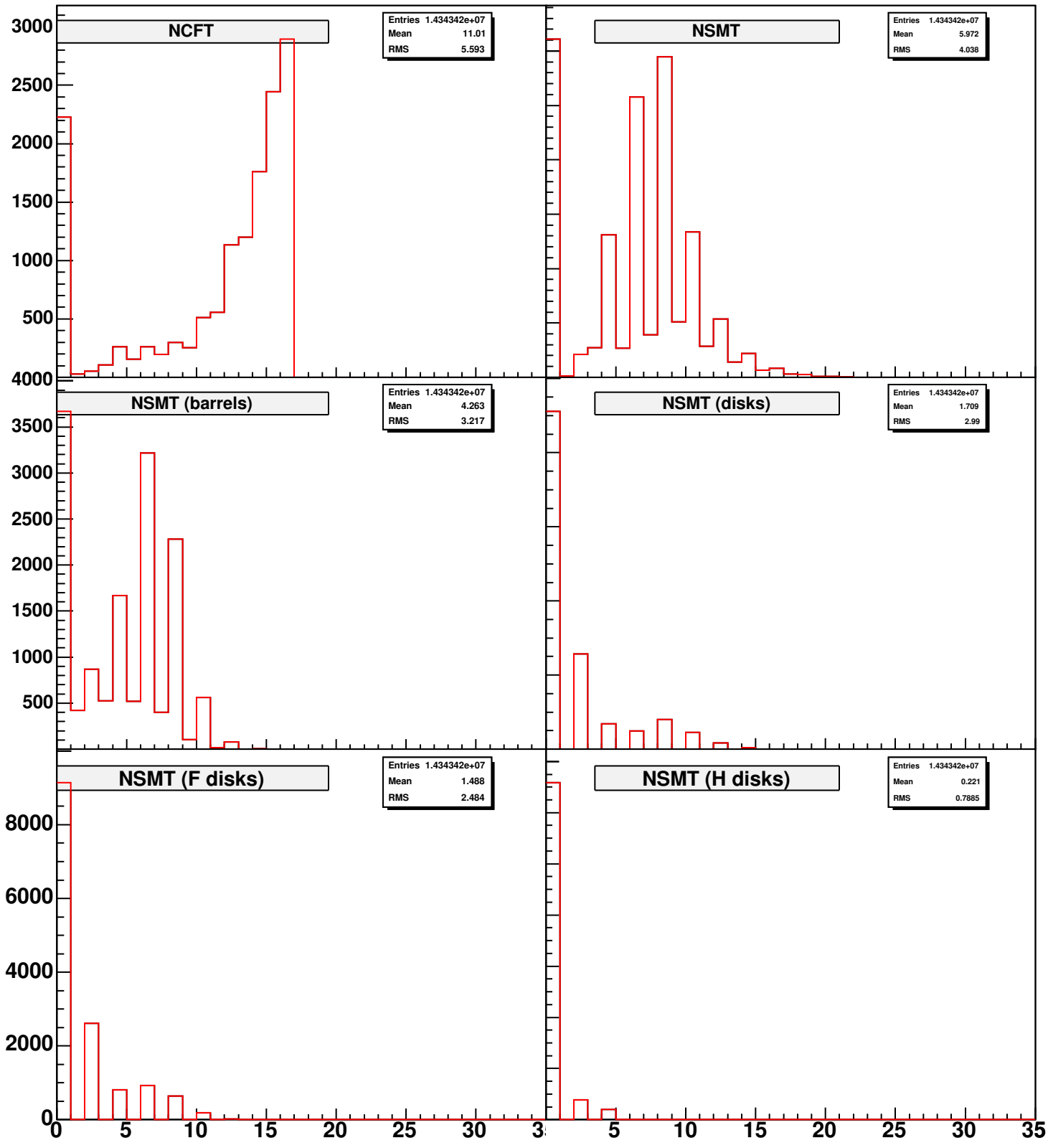
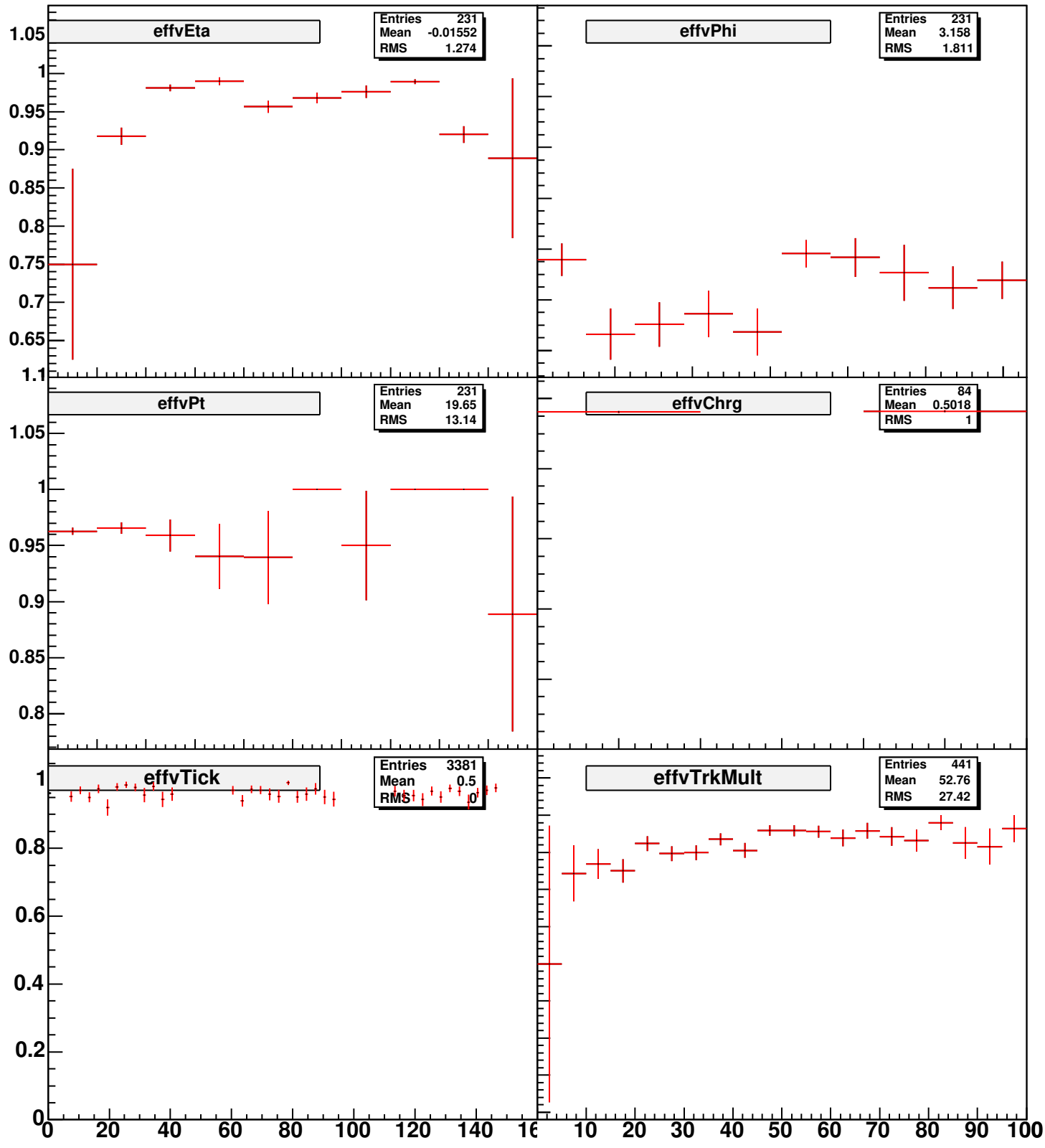
dayset-2004-06-21-194341-1_certification_200505

dayset-2004-06-21-194341-1_certification_200505

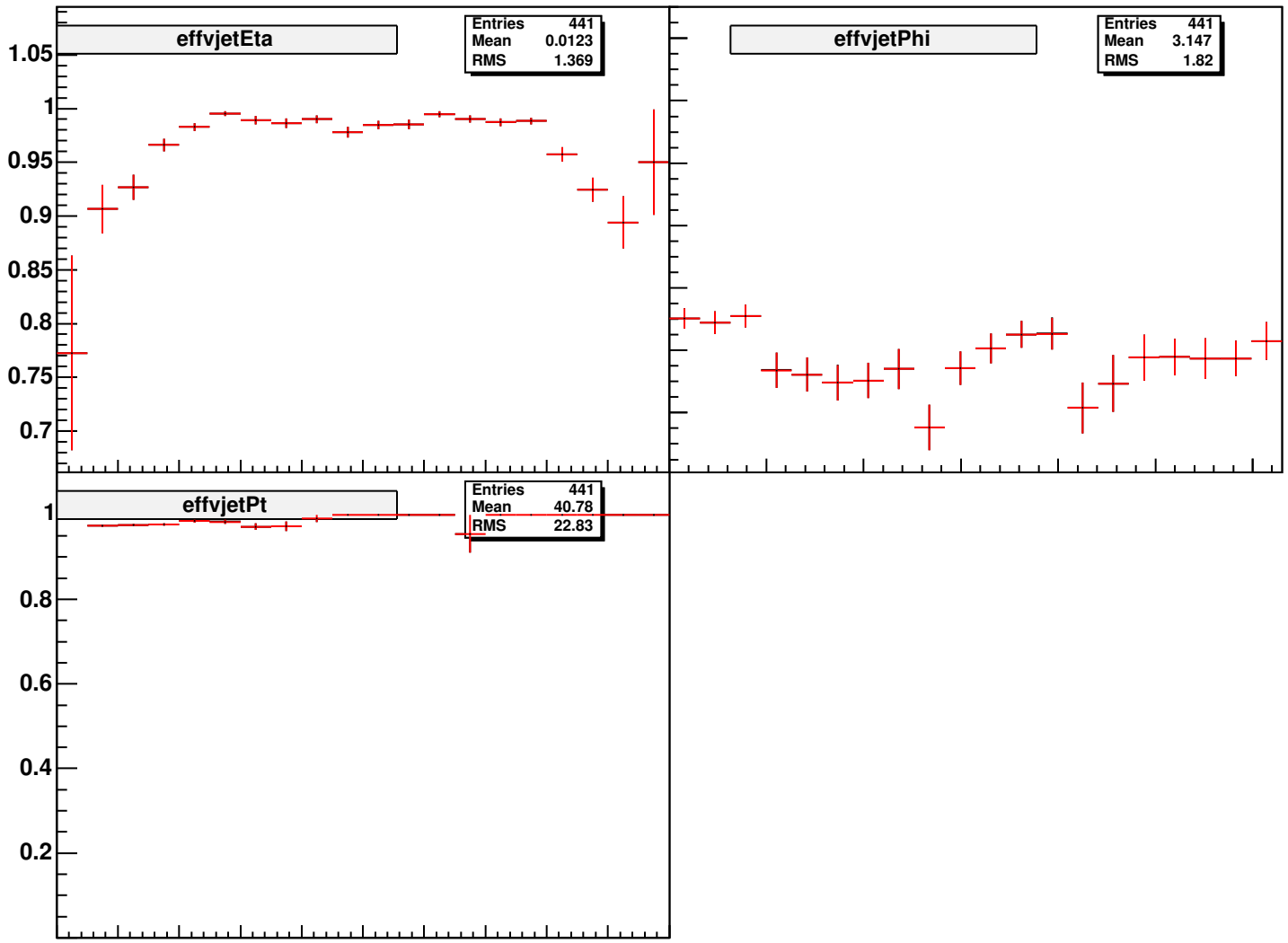

NTRKS
Entries 217040
Mean 66.09
RMS 48.77
Chisq prob
Entries1.434342e+07
Mean 0.2255
RMS 0.3056
log10(PT)
Entries 1.434342e+07
Mean -0.1017
RMS 0.3848
PHI at DCA (0,0)
Entries 1.434342e+07
Mean 3.158
RMS 1.837
TANLAM at DCA (0,0)
Entries1.434342e+07
Mean 1.242
RMS 36.11
Z at DCA (0,0)
Entries 1.434342e+07
Mean -1.008
RMS 29.55
DCA (best vertex)
Entries 1.434342e+07
Mean nan
RMS nan
|DCA| (best vertex)
Entries1.434342e+07
Mean nan
RMS nan
DCA pull (best vertex)
Entries 1.434342e+07
Mean nan
RMS nan
190
180
170
160
150
140
130
120
110
800
600
400
200
0
-0.3
-0.2
-0.1
0
0.1
0.2
0.
2
4
6
8
10
12
14
-4
-3
-2
-1
0
1
2
3
4
5

Tracks (All)

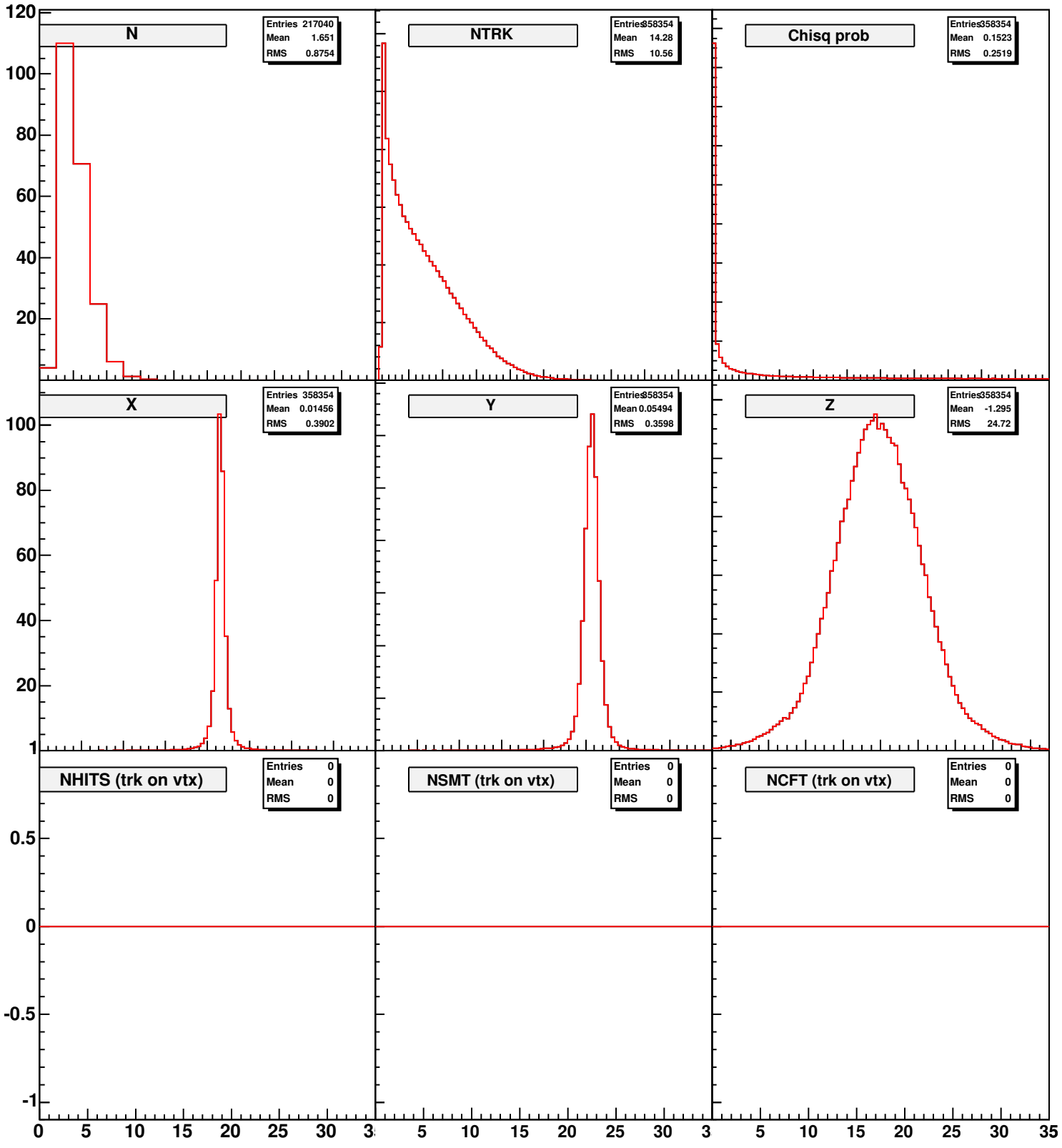

NCFT
Entries 1.434342e+07
Mean 11.01
RMS 5.593
NSMT
Entries 1.434342e+07
Mean 5.972
RMS 4.038
NSMT (barrels)
Entries 1.434342e+07
Mean 4.263
RMS 3.217
NSMT (disks)
Entries 1.434342e+07
Mean 1.709
RMS 2.99
NSMT (F disks)
Entries 1.434342e+07
Mean 1.488
RMS 2.484
NSMT (H disks)
Entries 1.434342e+07
Mean 0.221
RMS 0.7885
Track Hits (All)



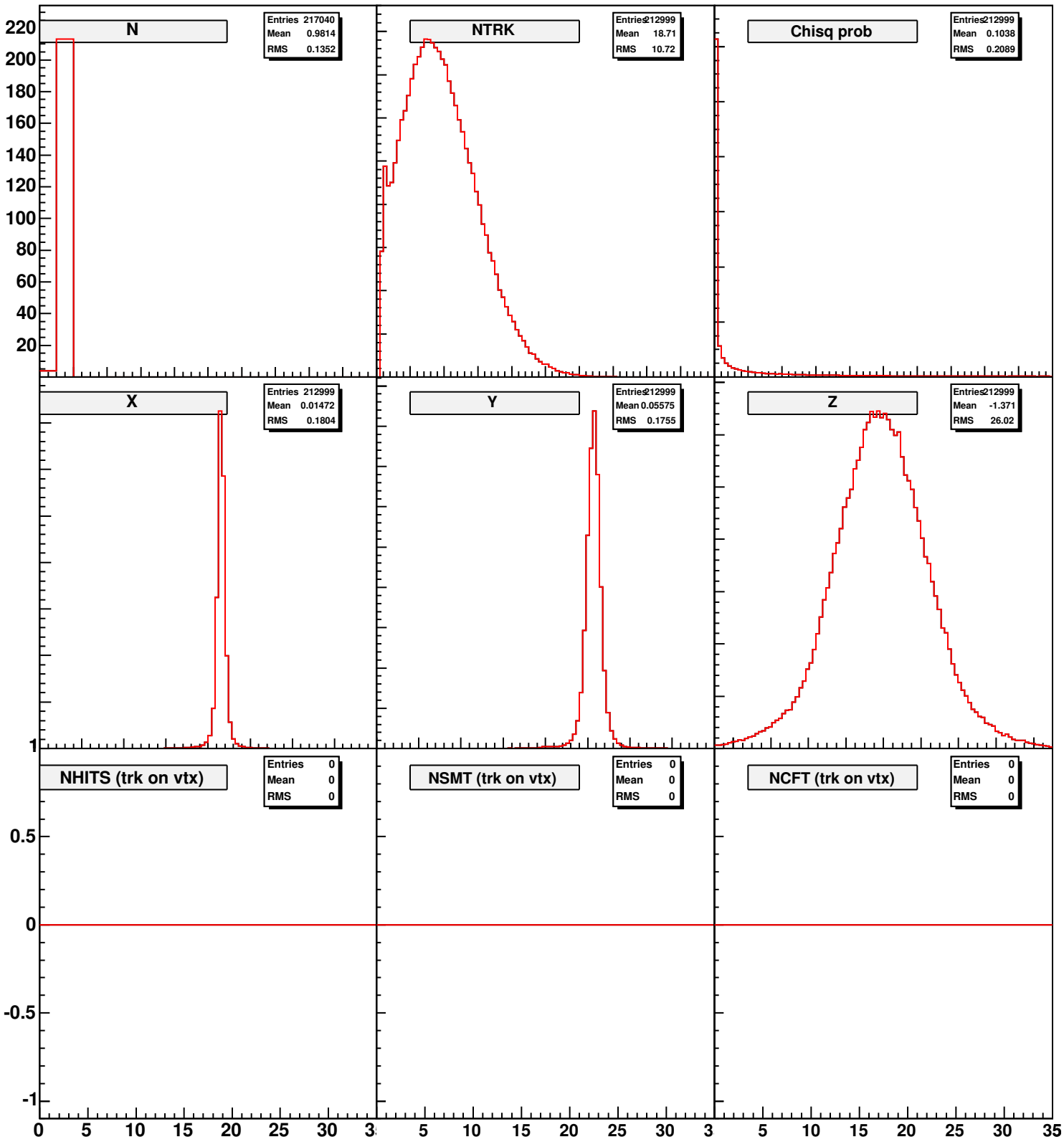
Tracking (Efficiency-Isolated)



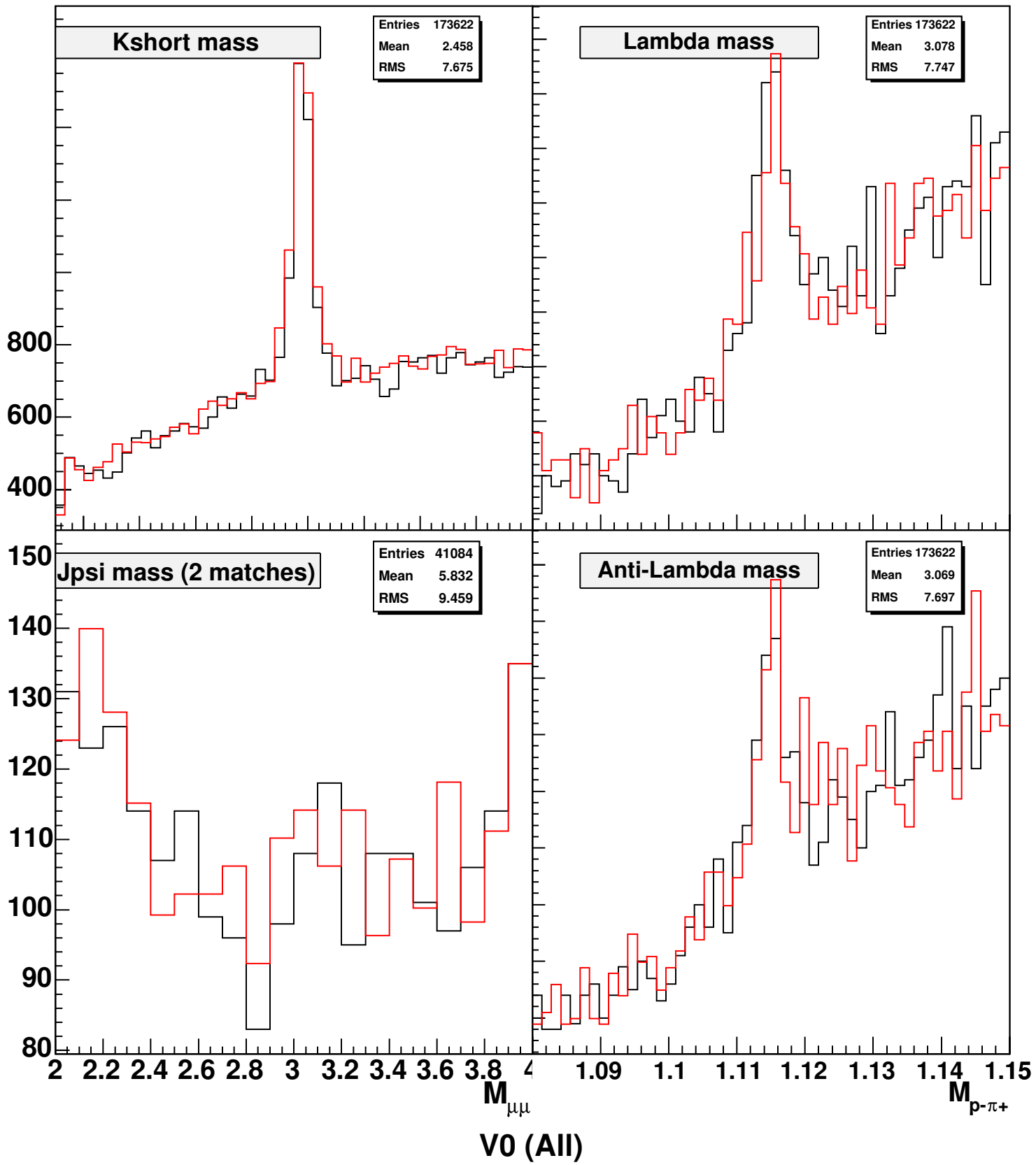
Tracking (Efficiency-InJets)

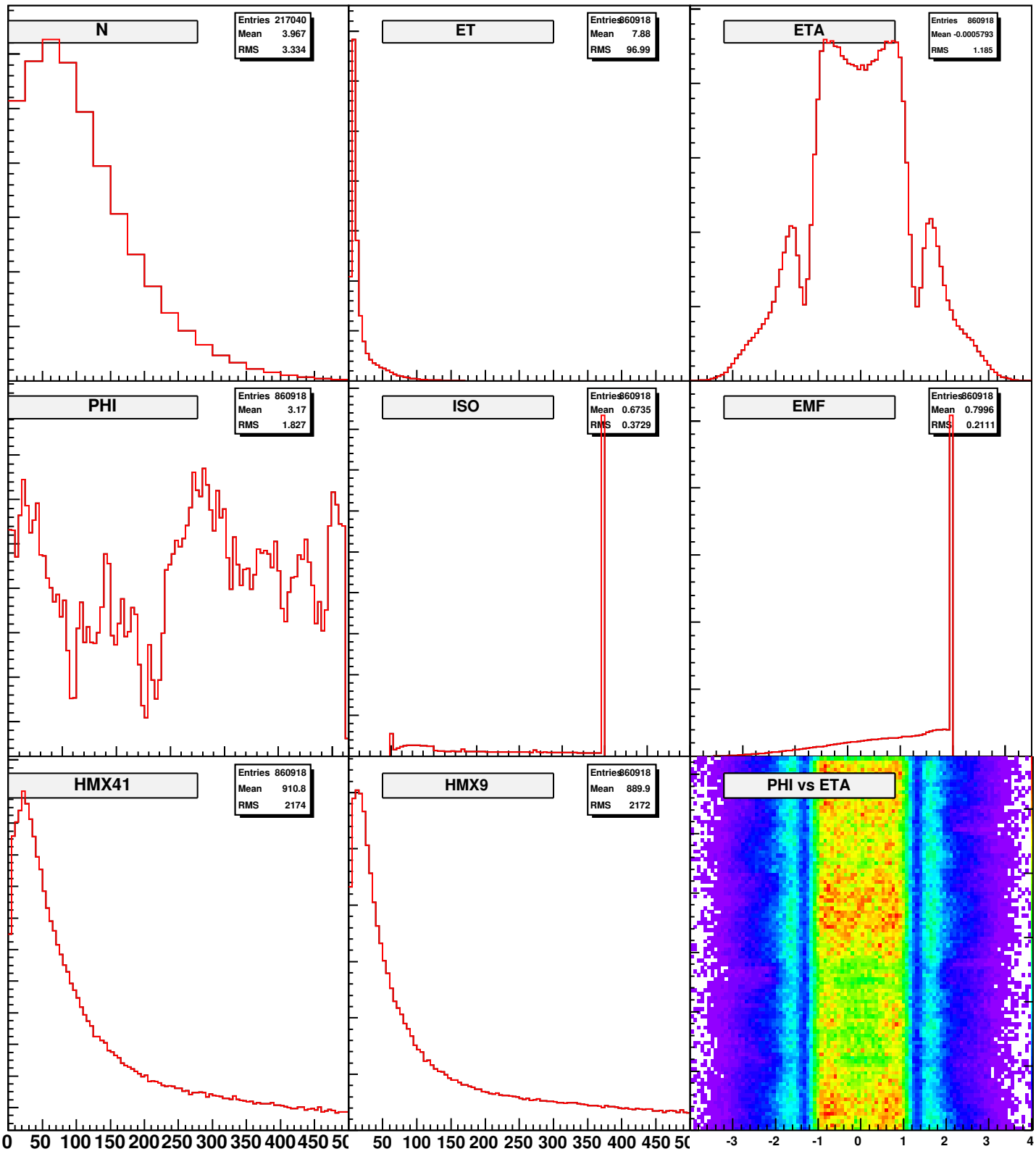


Vertices (Primary - all candidates)

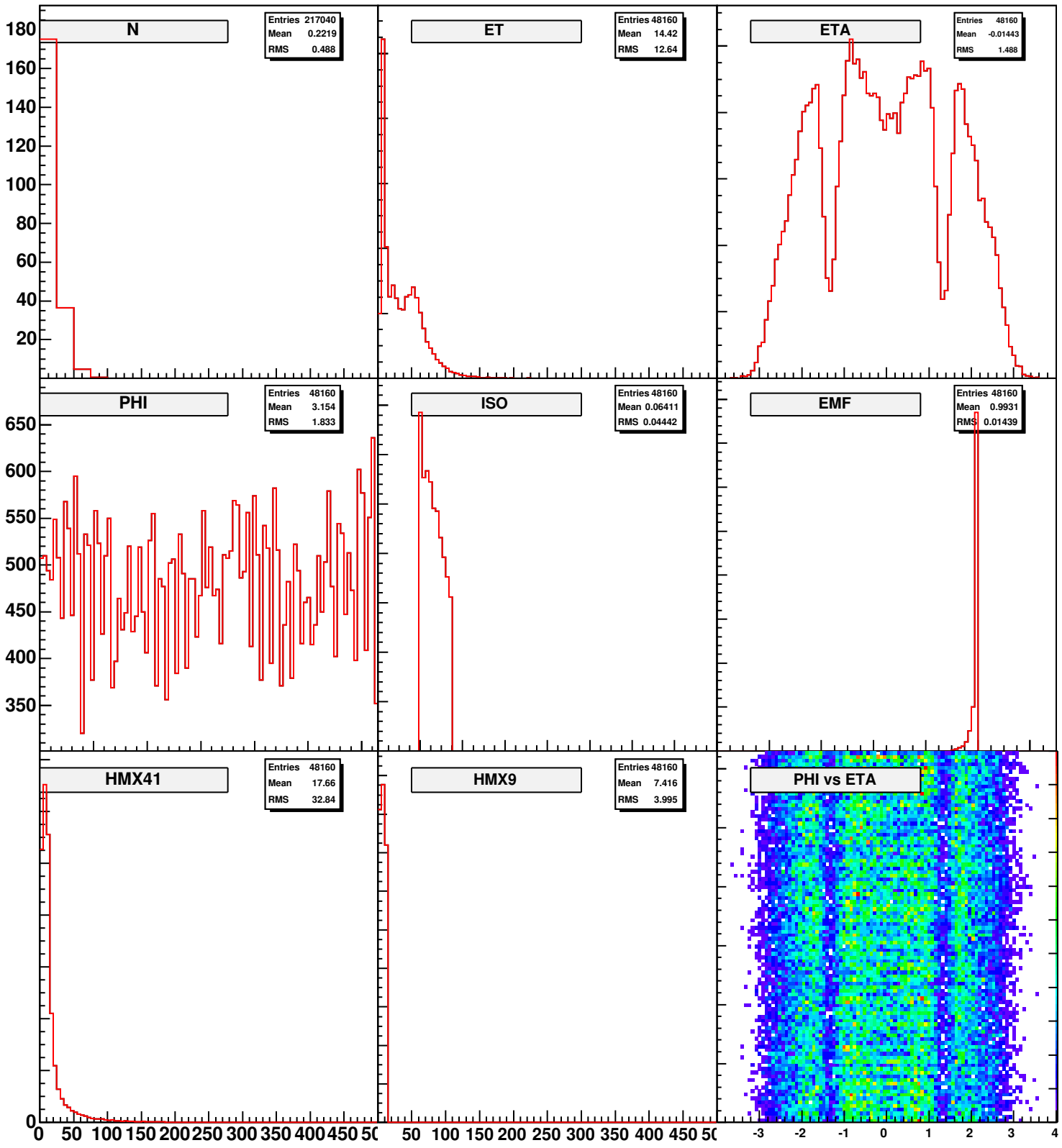


Vertices (Primary - best)

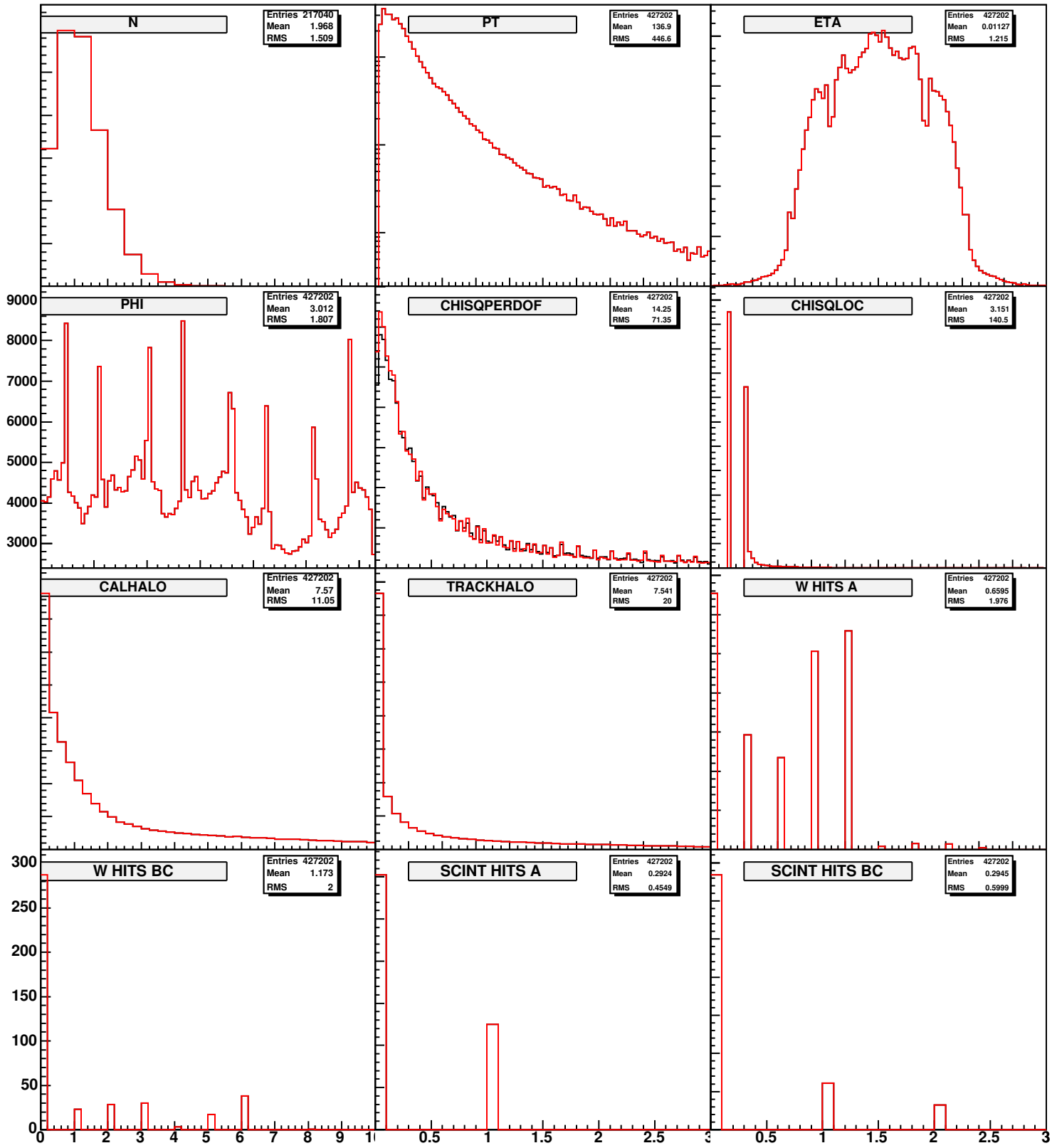

Kshort mass
Entries 173622
Mean 2.458
RMS 7.675
Lambda mass
Entries 173622
Mean 3.078
RMS 7.747
Jpsi mass (2 matches)
Entries 41084
Mean 5.832
RMS 9.459
Anti-Lambda mass
Entries 173622
Mean 3.069
RMS 7.697
800
600
400
150
140
130
120
110
100
90
80
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
M μμ
1.09 1.1 1.11 1.12 1.13 1.14 1.15
M p-π+
V0 (All)



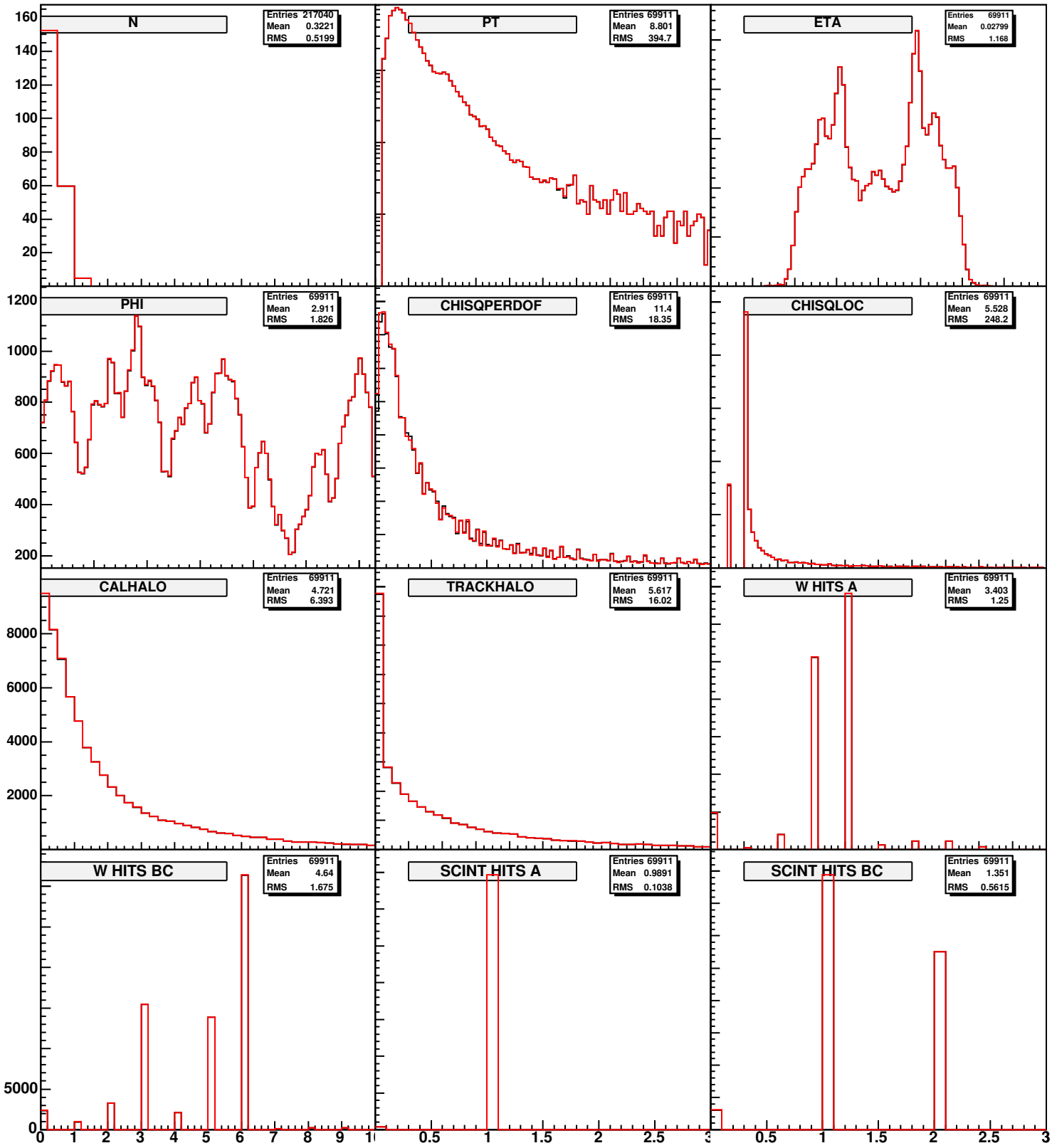
Electrons (SCONE All)



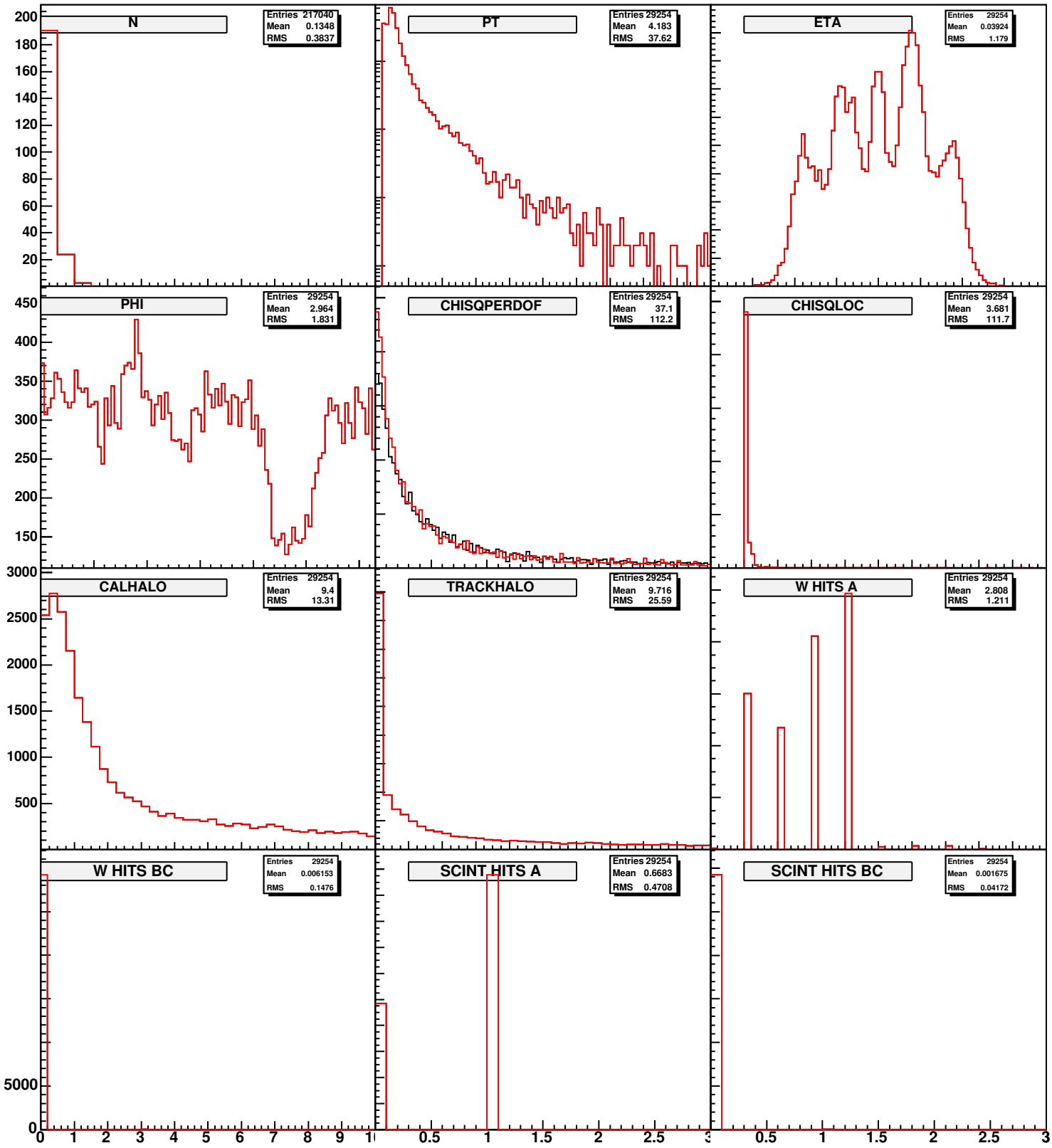
Electrons (SCONE Tight)


N
Entries 217040
Mean 1.968
RMS 1.509
PT
Entries 427202
Mean 136.9
RMS 446.6
ETA
Entries 427202
Mean 0.01127
RMS 1.215
PHI
Entries 427202
Mean 3.012
RMS 1.807
CHISQPERDOF
Entries 427202
Mean 14.25
RMS 71.35
CHISQLOC
Entries 427202
Mean 3.151
RMS 140.5
CALHALO
Entries 427202
Mean 7.57
RMS 11.05
TRACKHALO
Entries 427202
Mean 7.541
RMS 20
W HITS A
Entries 427202
Mean 0.6595
RMS 1.976
W HITS BC
Entries 427202
Mean 1.173
RMS 2
SCINT HITS A
Entries 427202
Mean 0.2924
RMS 0.4549
SCINT HITS BC
Entries 427202
Mean 0.2945
RMS 0.5999

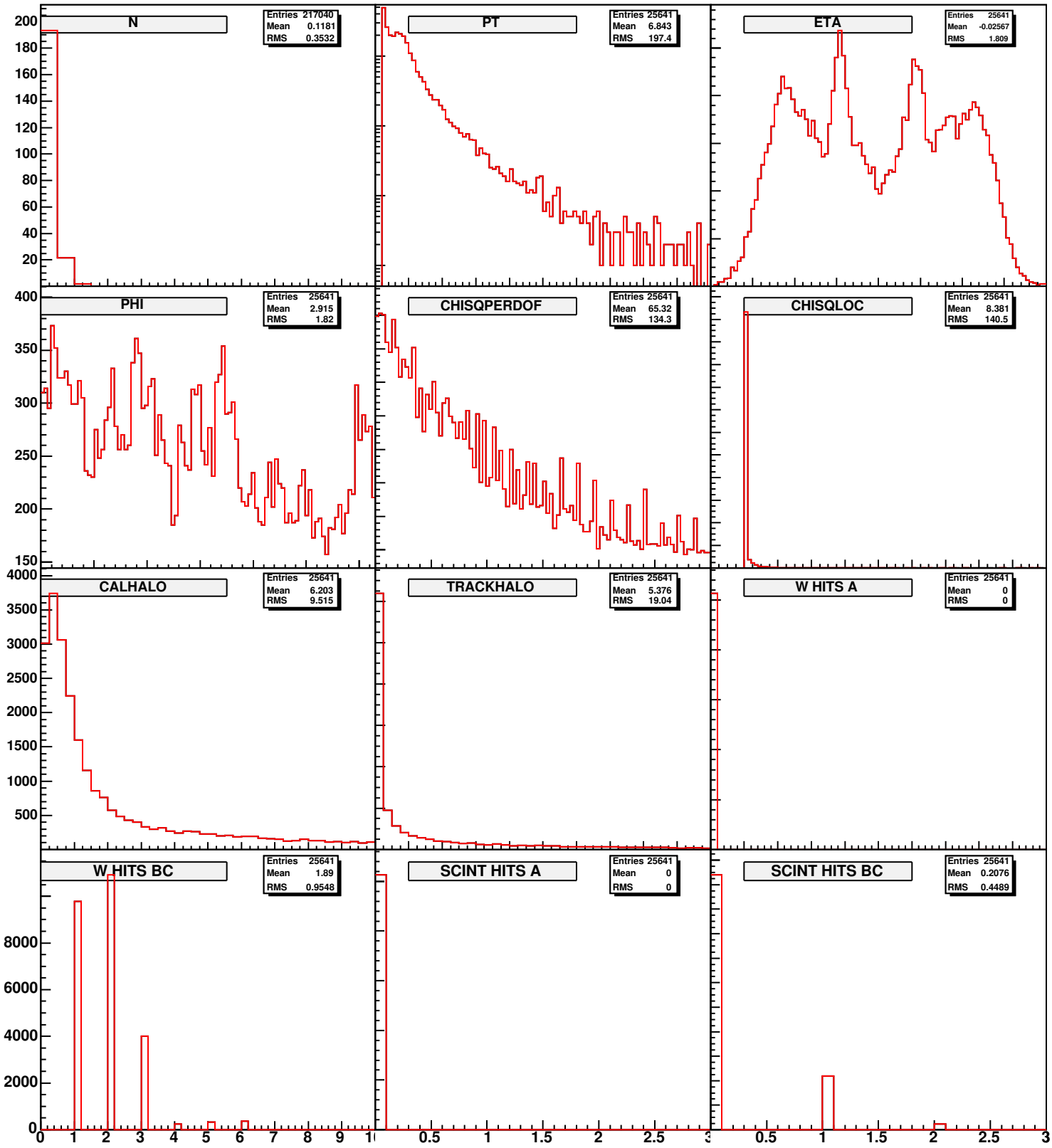
Muons (All)



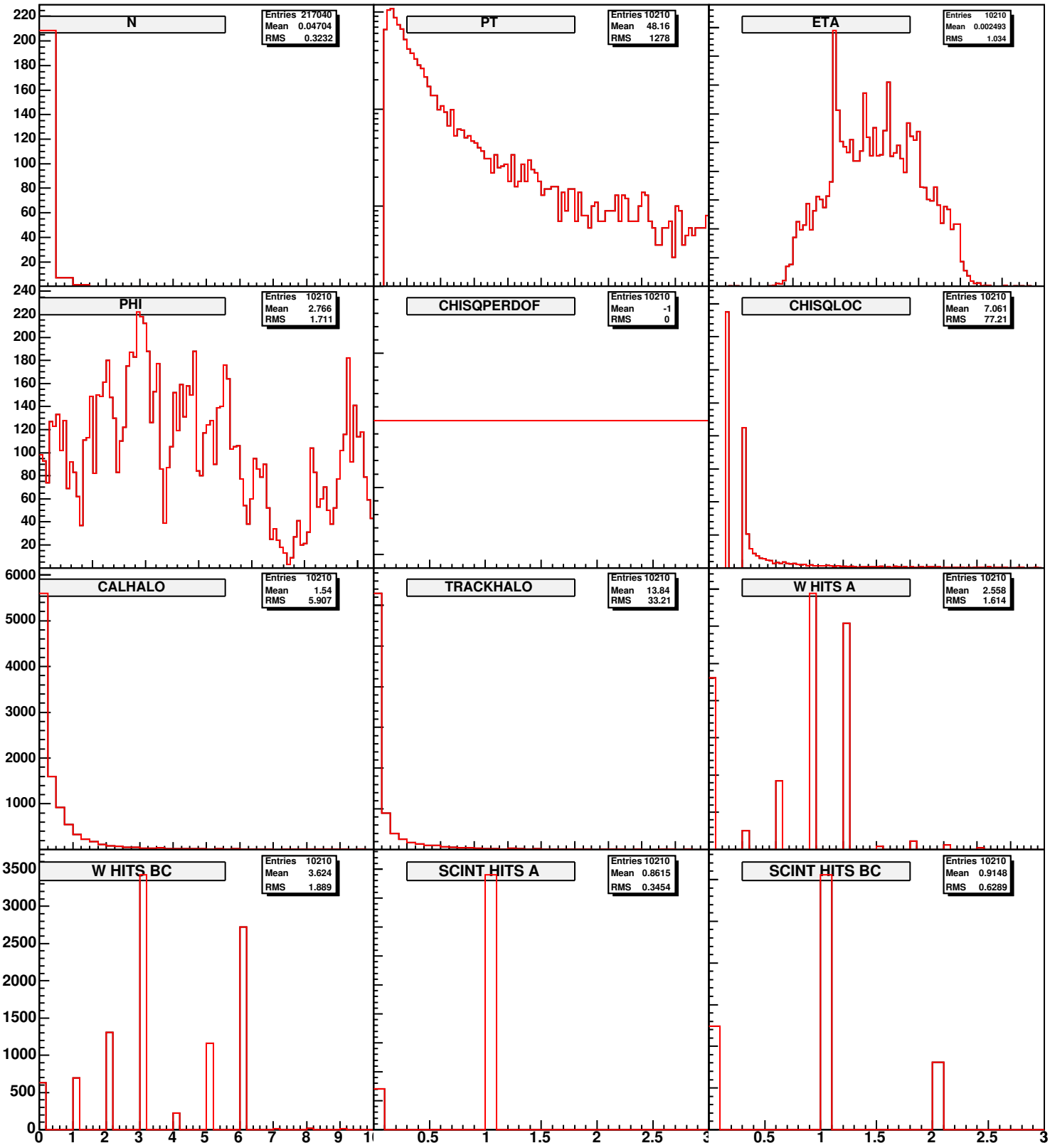
Muons (Matched)


N
Entries 217040
Mean 0.1348
RMS 0.3837
PT
Entries 29254
Mean 4.183
RMS 37.62
ETA
Entries 29254
Mean 0.03924
RMS 1.179
PHI
Entries 29254
Mean 2.964
RMS 1.831
CHISQPERDOF
Entries 29254
Mean 37.1
RMS 112.2
CHISQLOC
Entries 29254
Mean 3.681
RMS 111.7
CALHALO
Entries 29254
Mean 9.4
RMS 13.31
TRACKHALO
Entries 29254
Mean 9.716
RMS 25.59
W HITS A
Entries 29254
Mean 2.808
RMS 1.211
W HITS BC
Entries 29254
Mean 0.006153
RMS 0.1476
SCINT HITS A
Entries 29254
Mean 0.6683
RMS 0.4708
SCINT HITS BC
Entries 29254
Mean 0.001675
RMS 0.04172

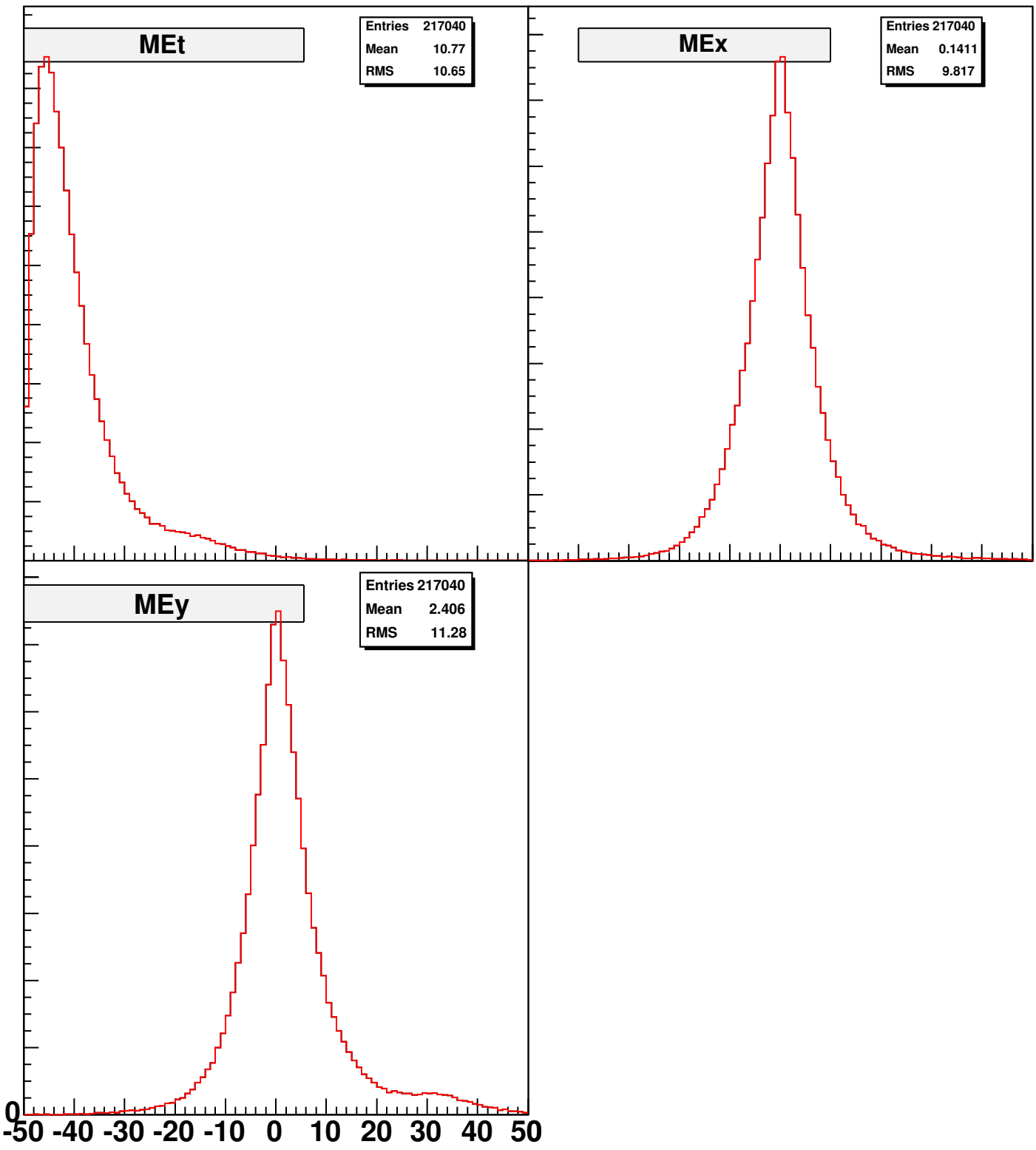
Muons (Astub)

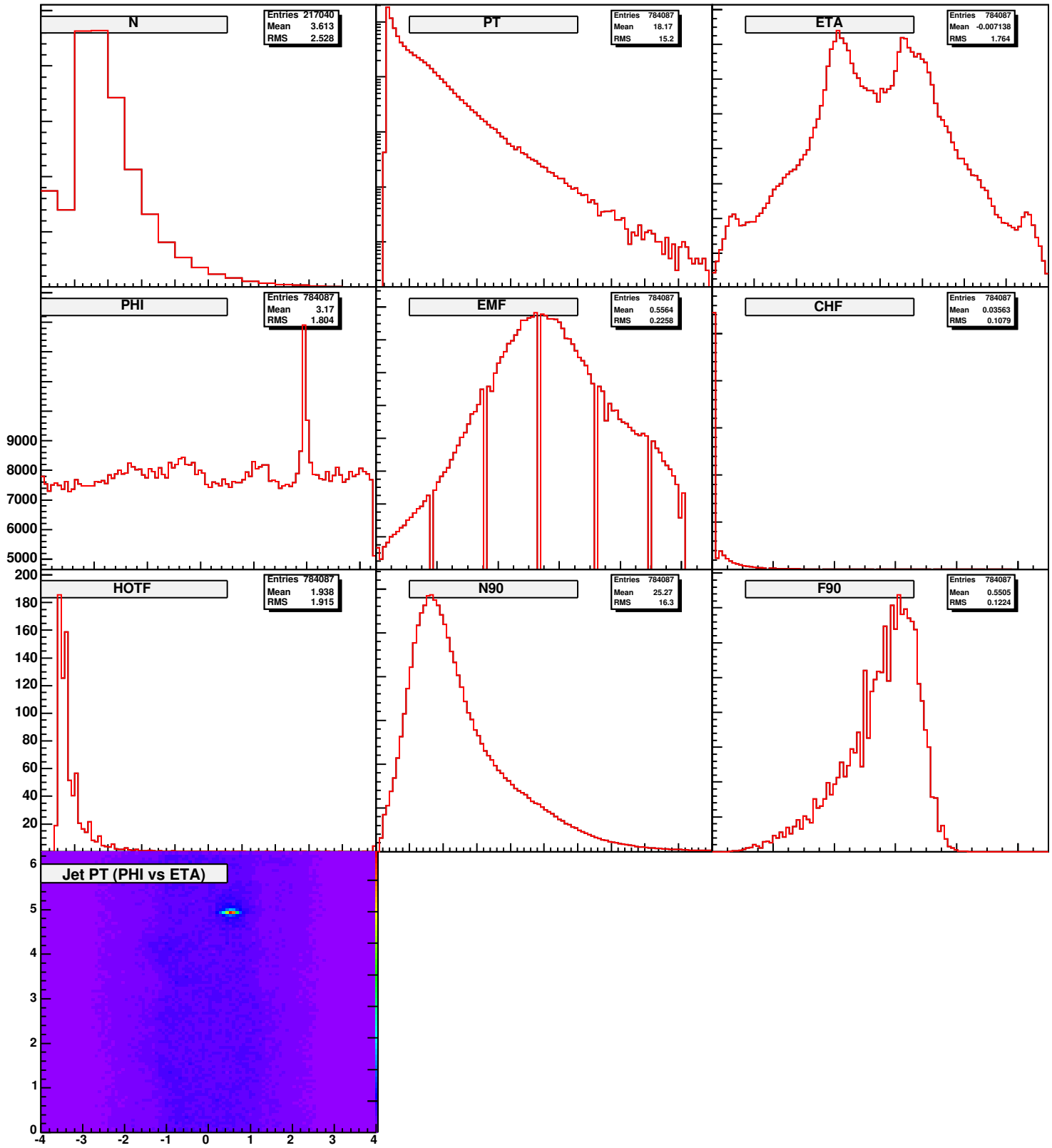


Muons (BCstub)

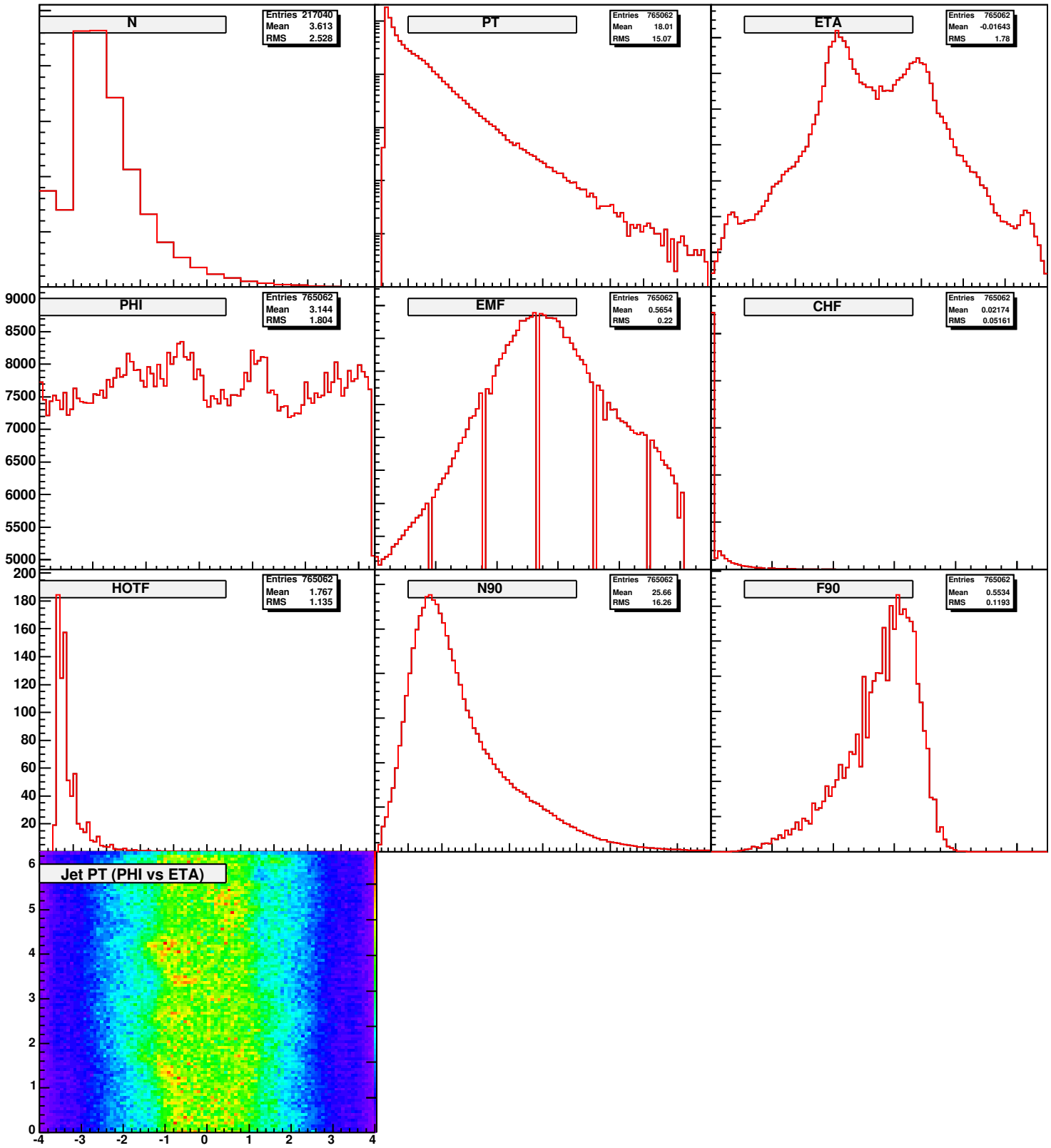


Muons (Unmatched)

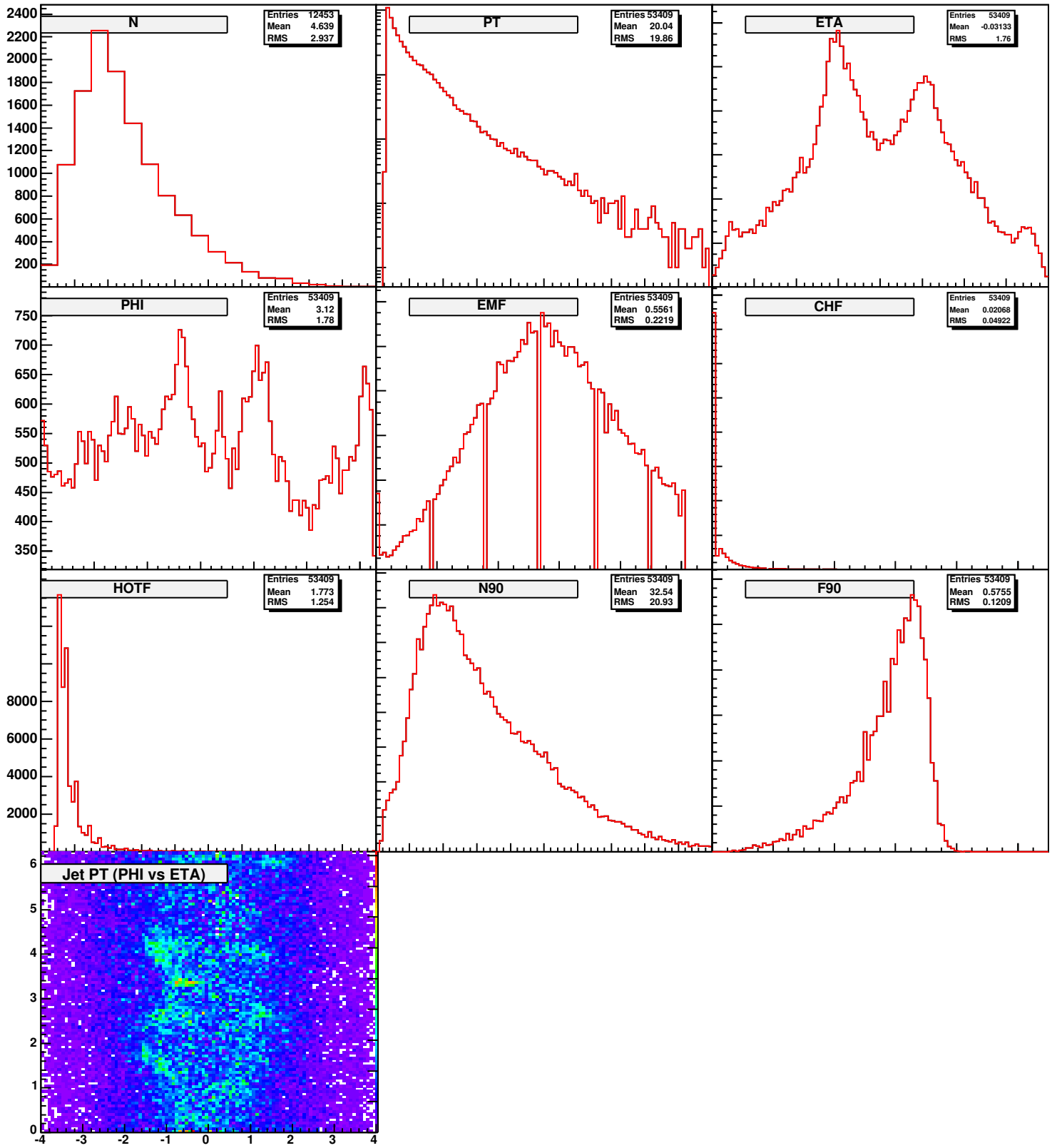

MEt
Entries 217040
Mean 10.77
RMS 10.65
MEx
Entries 217040
Mean 0.1411
RMS 9.817
MEy
Entries 217040
Mean 2.406
RMS 11.28
0
-50 -40 -30 -20 -10 0 10 20 30 40 50
Met (No cuts)



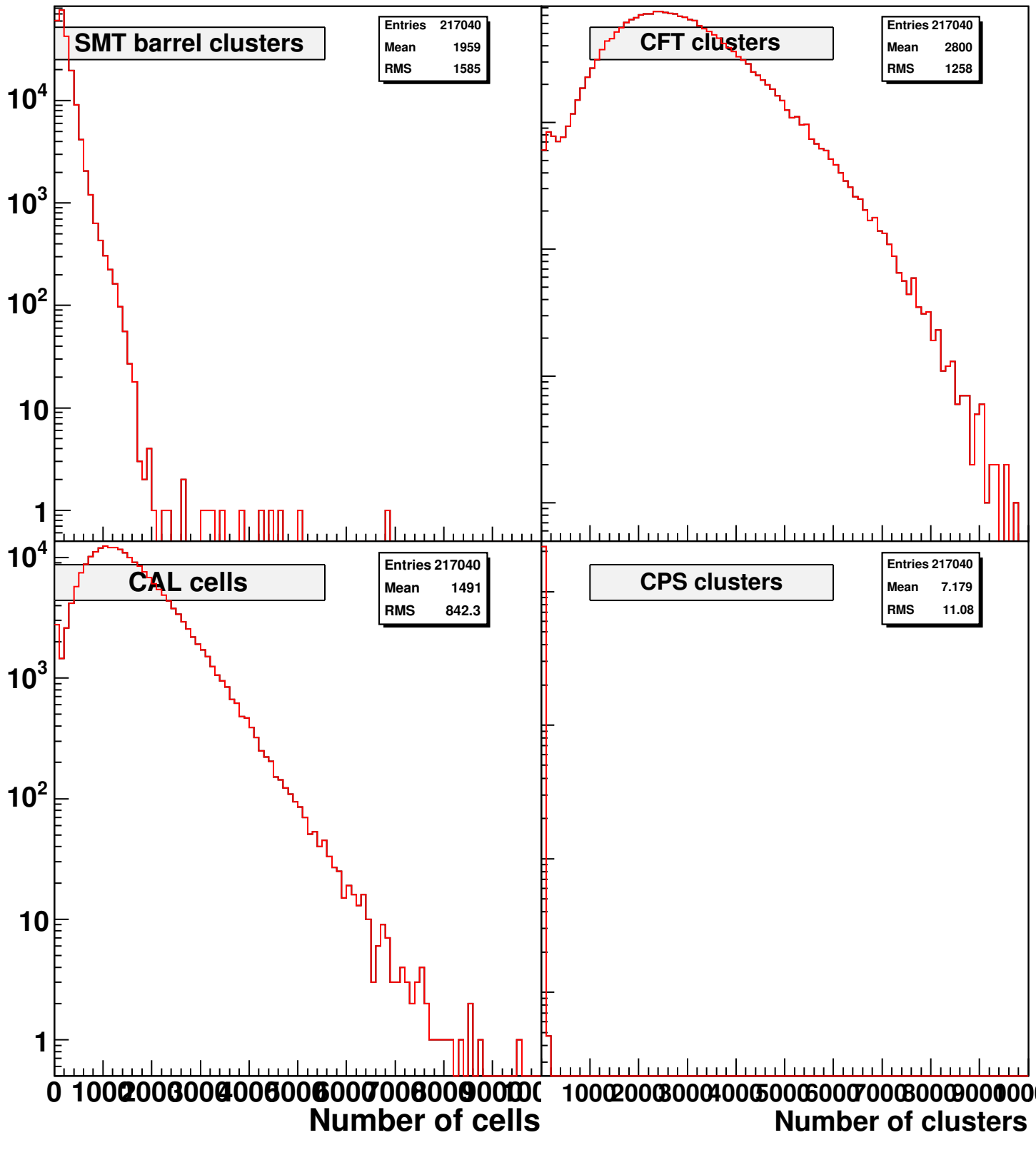
Jets (Cone R 0.7 (no cuts))

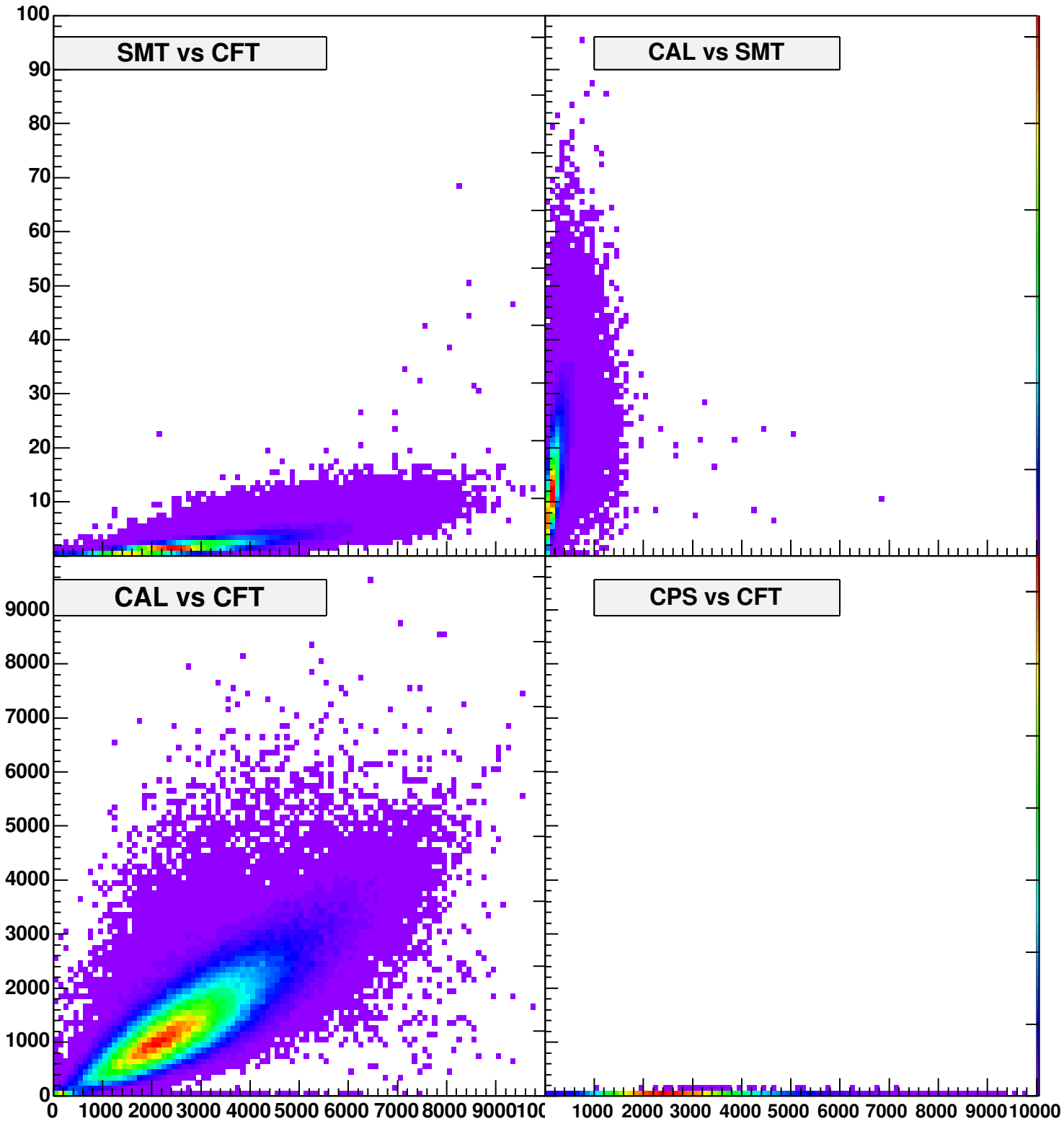


Jets (Cone R 0.7 (standard cuts))

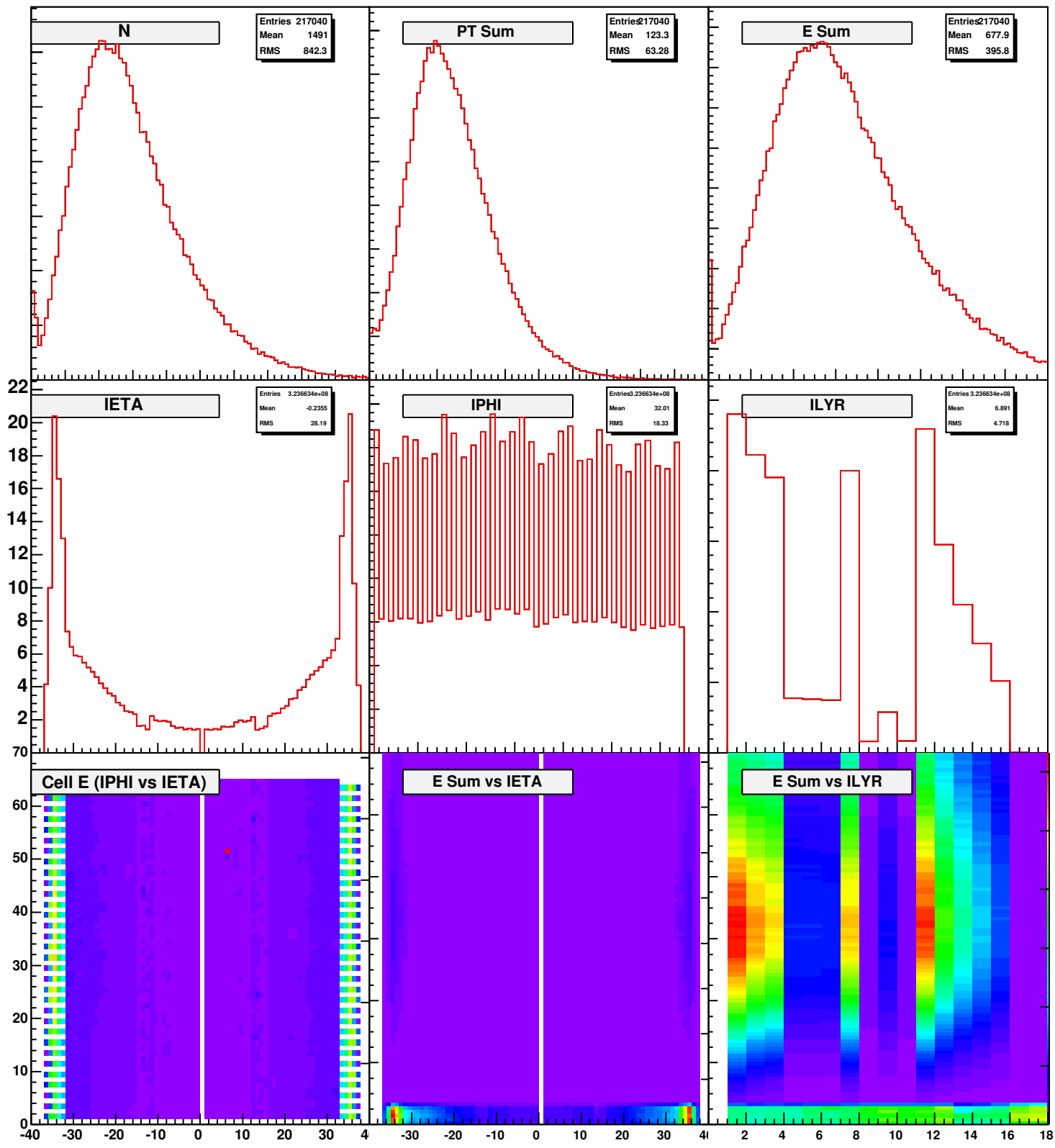


Jets (Cone R 0.7 (standard cuts, MET>30))

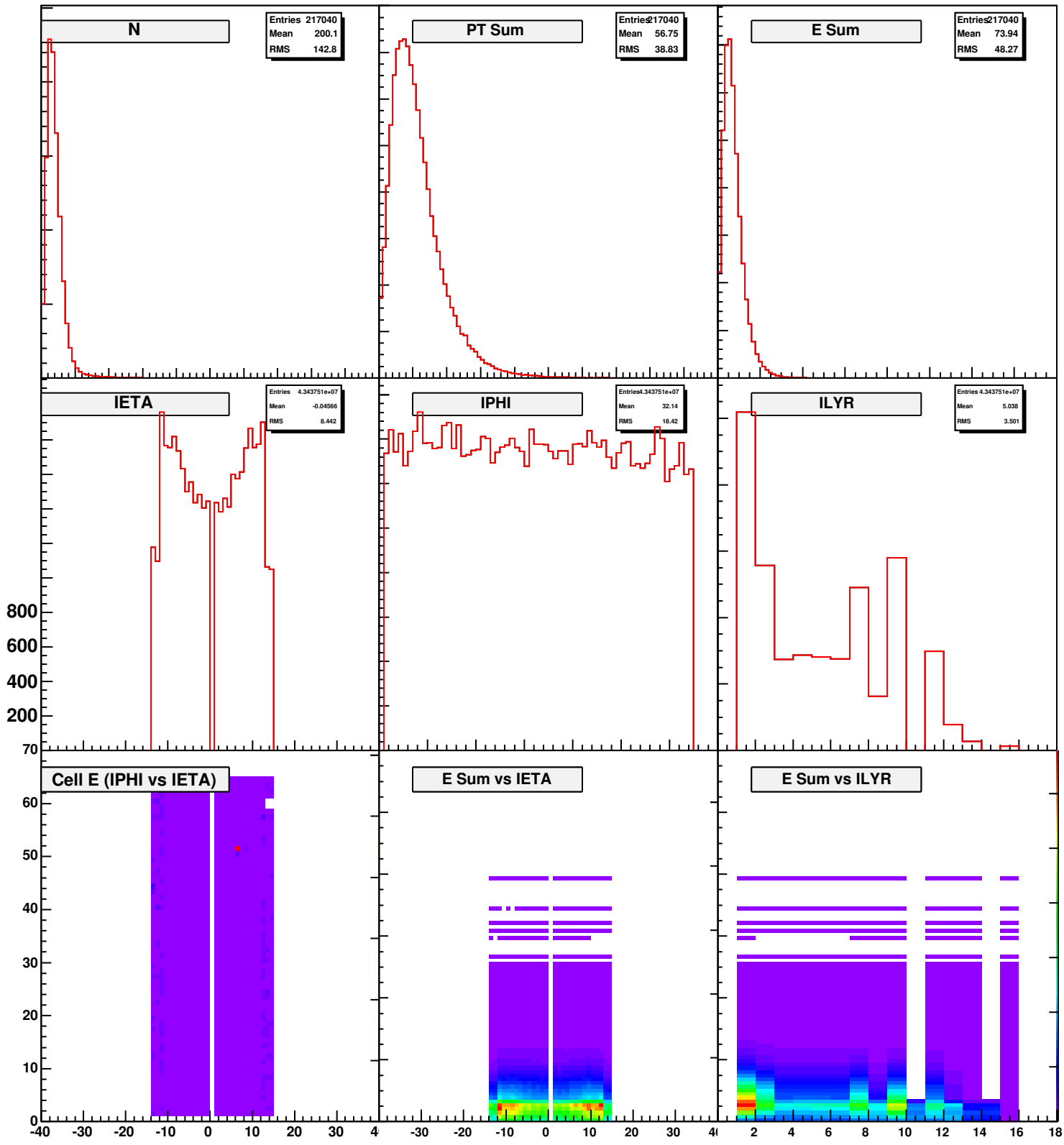

SMT barrel clusters
Entries 217040
Mean 1959
RMS 1585
CFT clusters
Entries 217040
Mean 2800
RMS 1258
CAL cells
Entries 217040
Mean 1491
RMS 842.3
CPS clusters
Entries 217040
Mean 7.179
RMS 11.08
Number of cells
Number of clusters
Detector Occupancy (Detector)



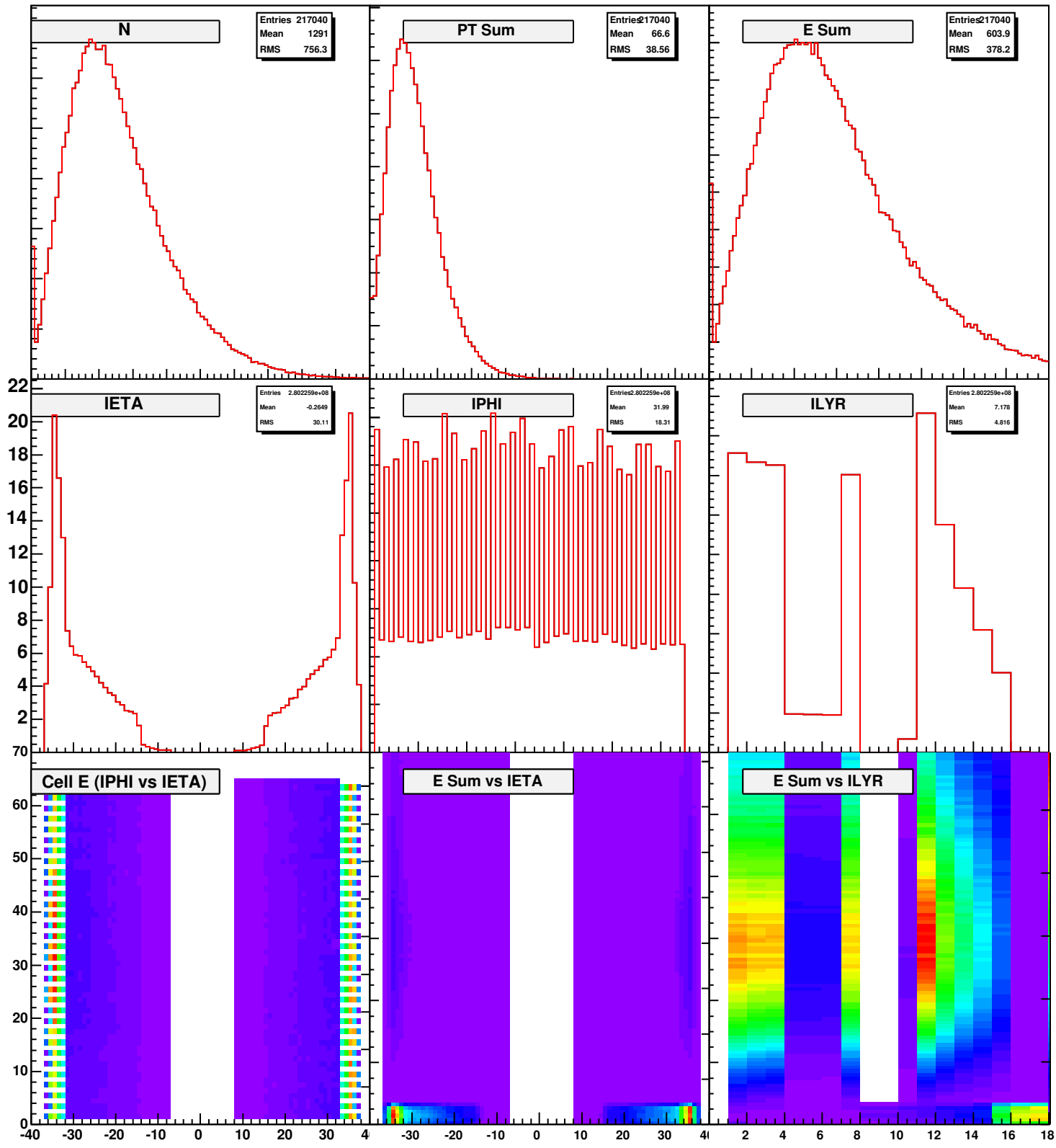
Detector Occupancy (Detector)



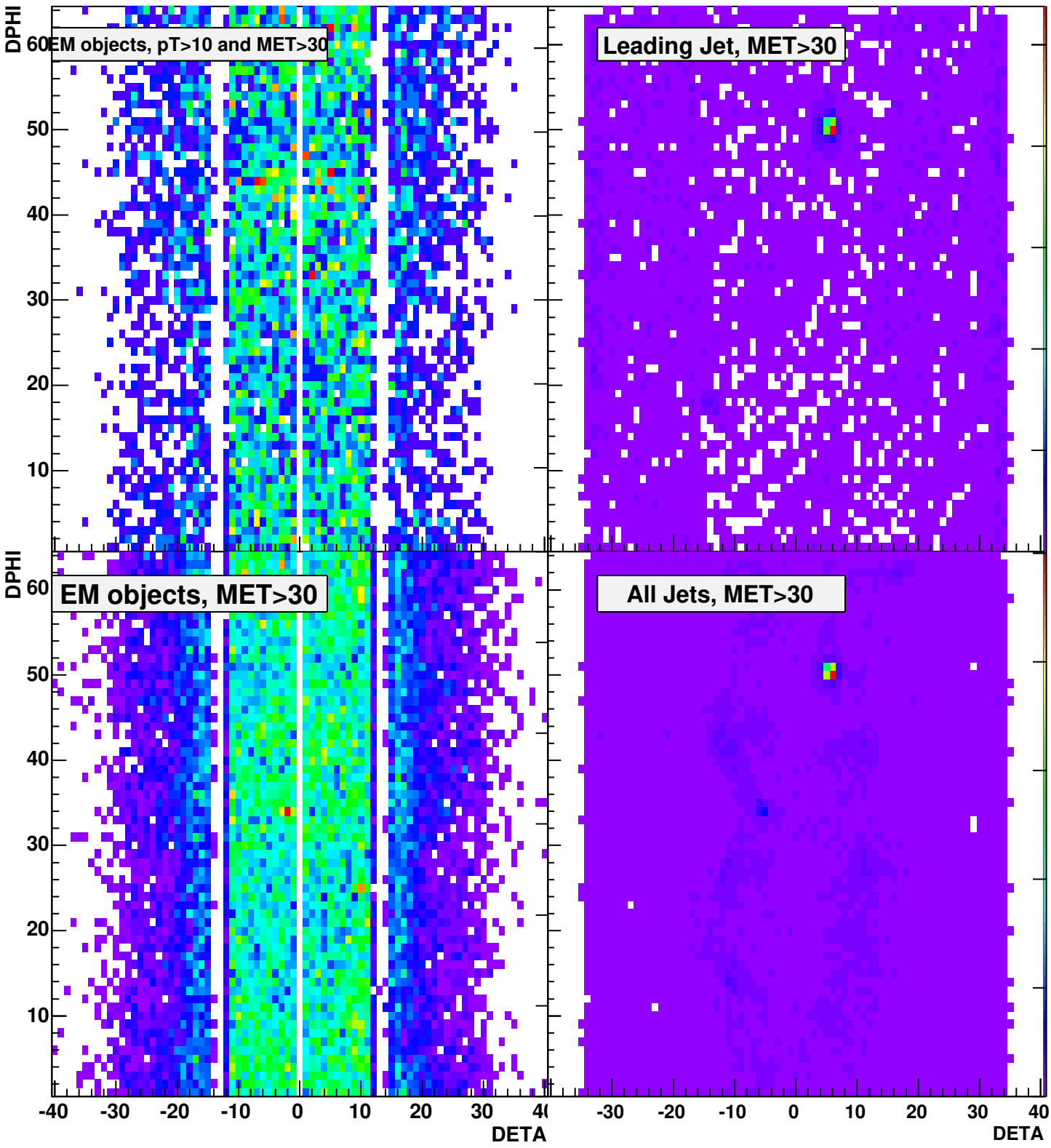
Calorimeter (All cells)



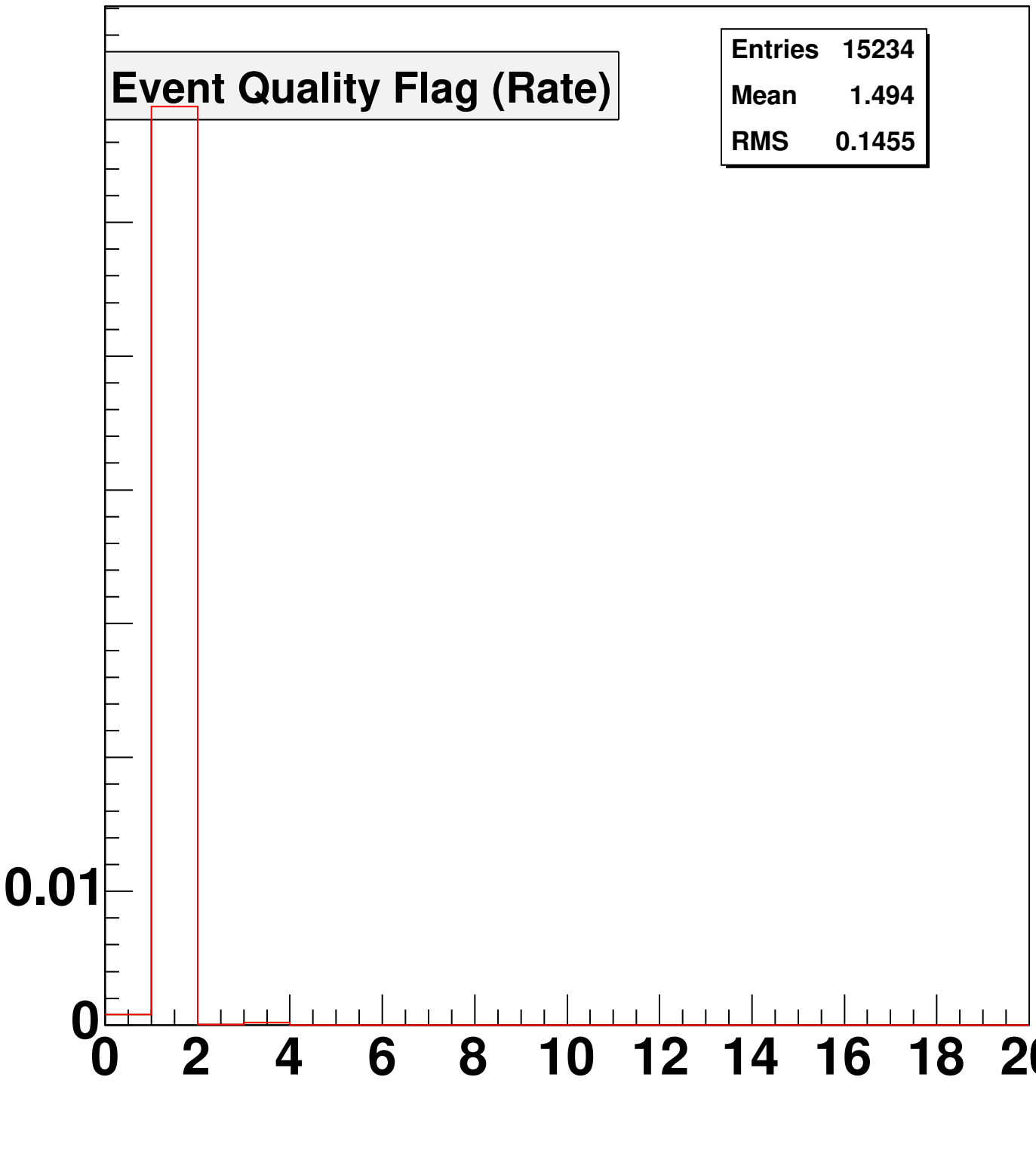
Calorimeter (All CC cells)

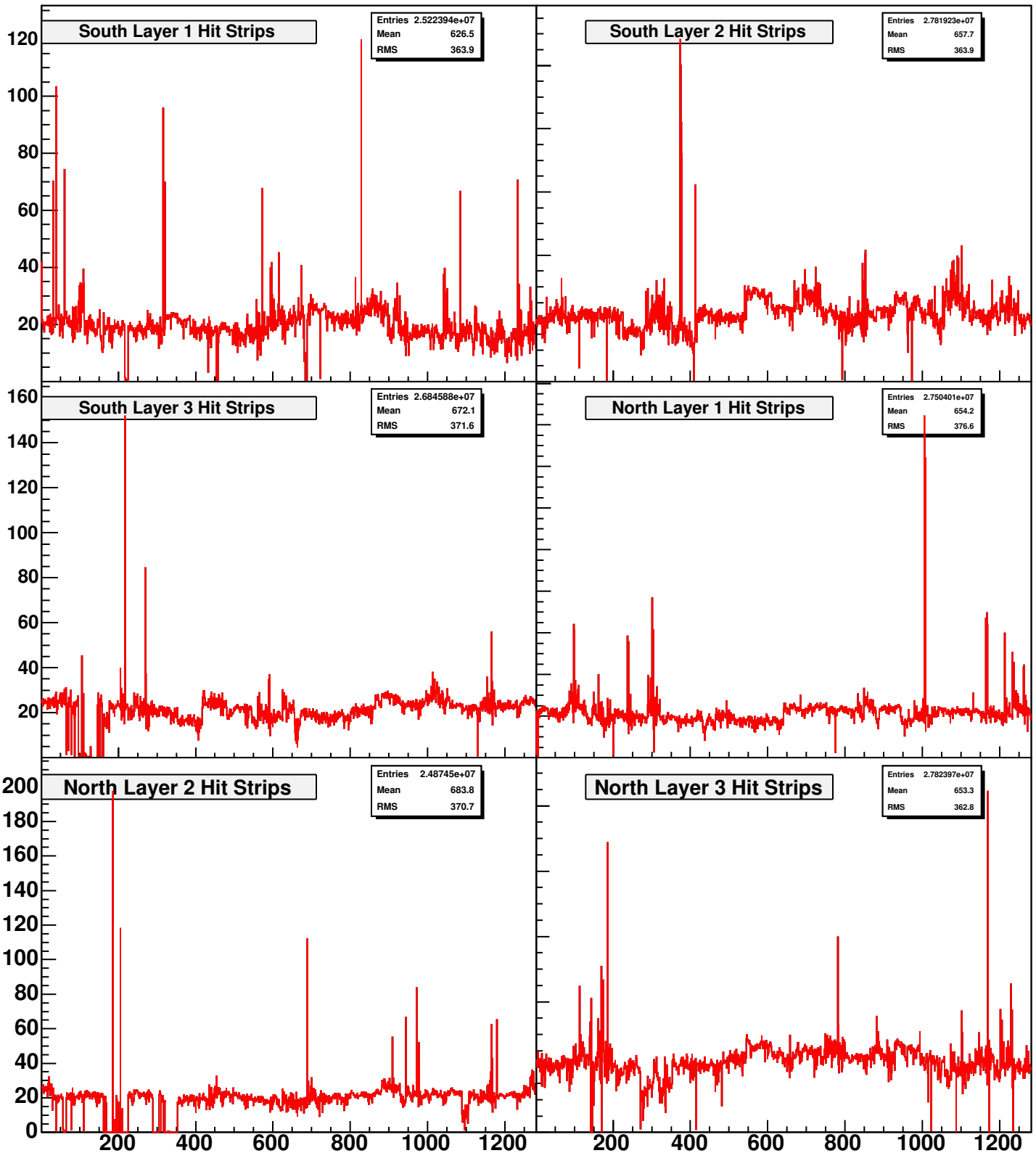


Calorimeter (All EC cells)

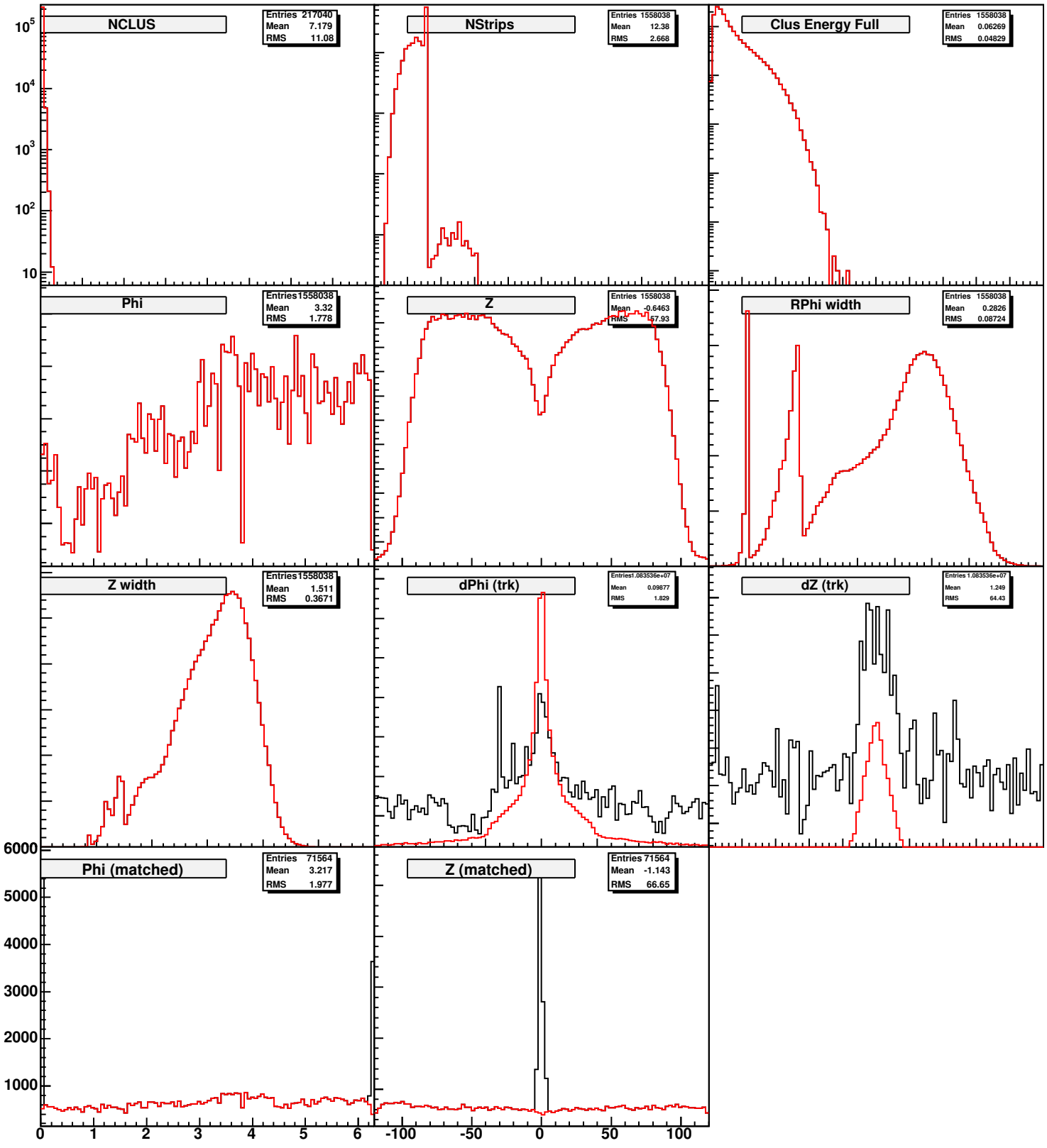


Cal Objects with MET>30 (All cells)

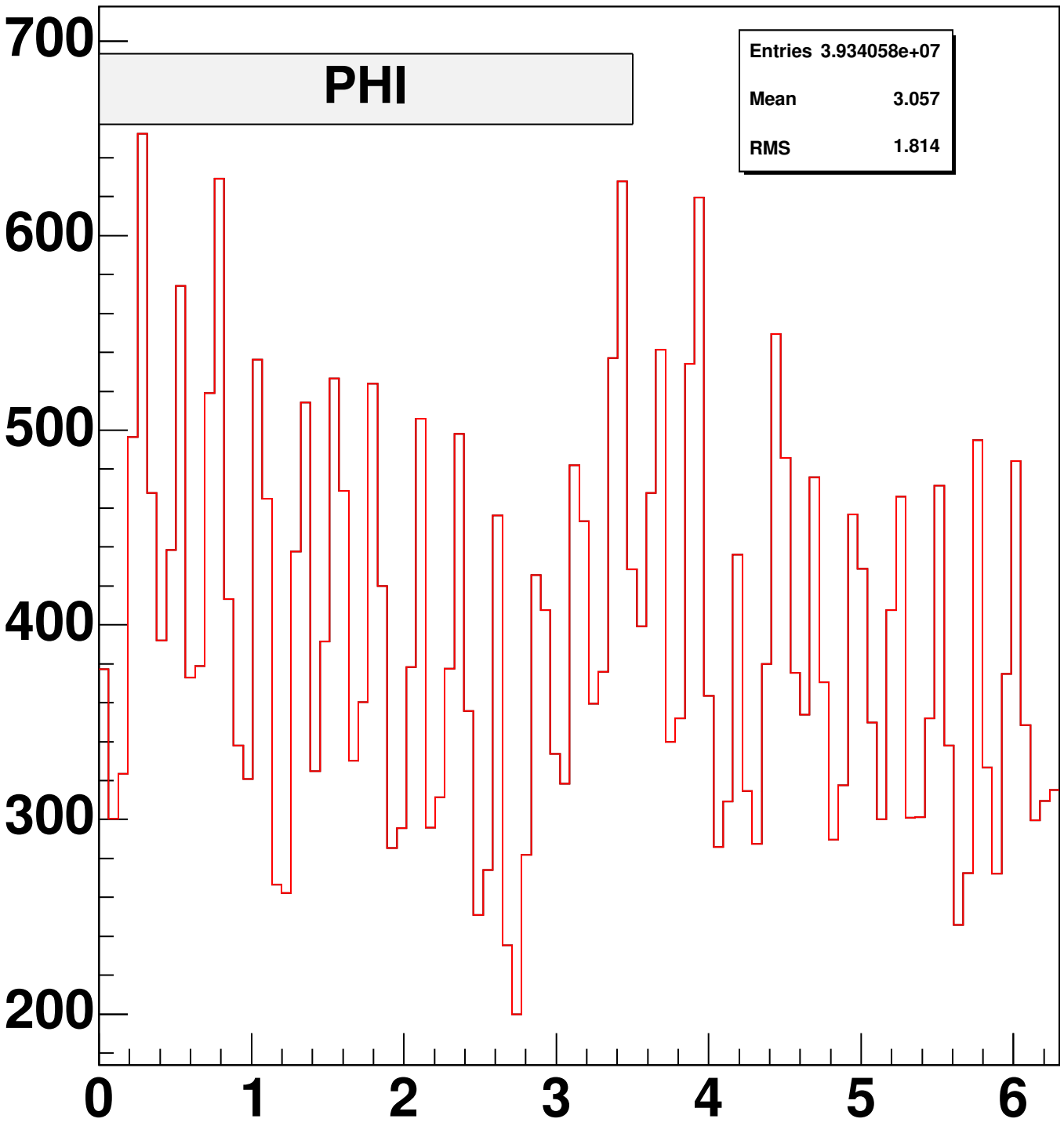

Event Quality Flag (Rate)
Entries 15234
Mean 1.494
RMS 0.1455
0.01
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

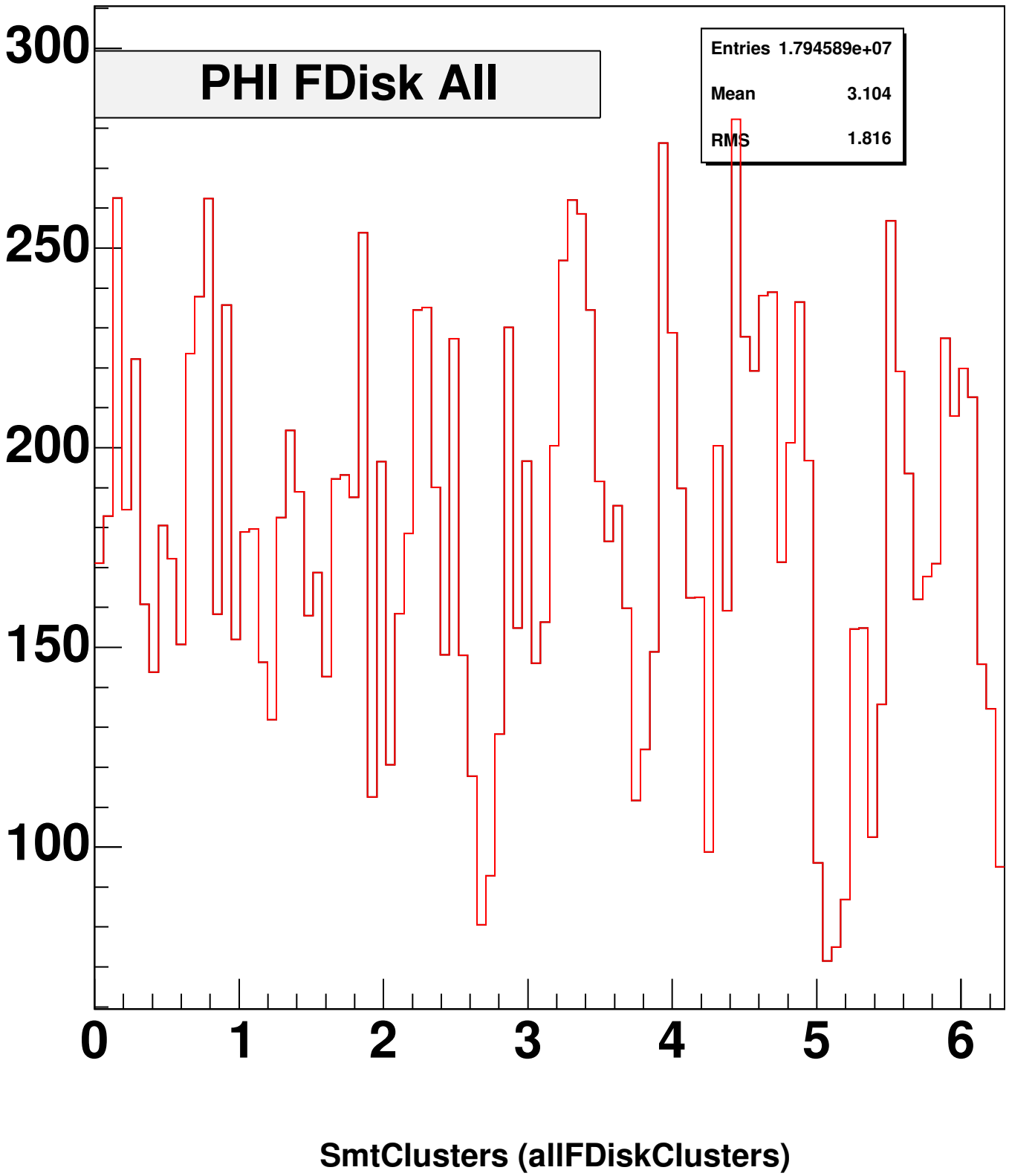


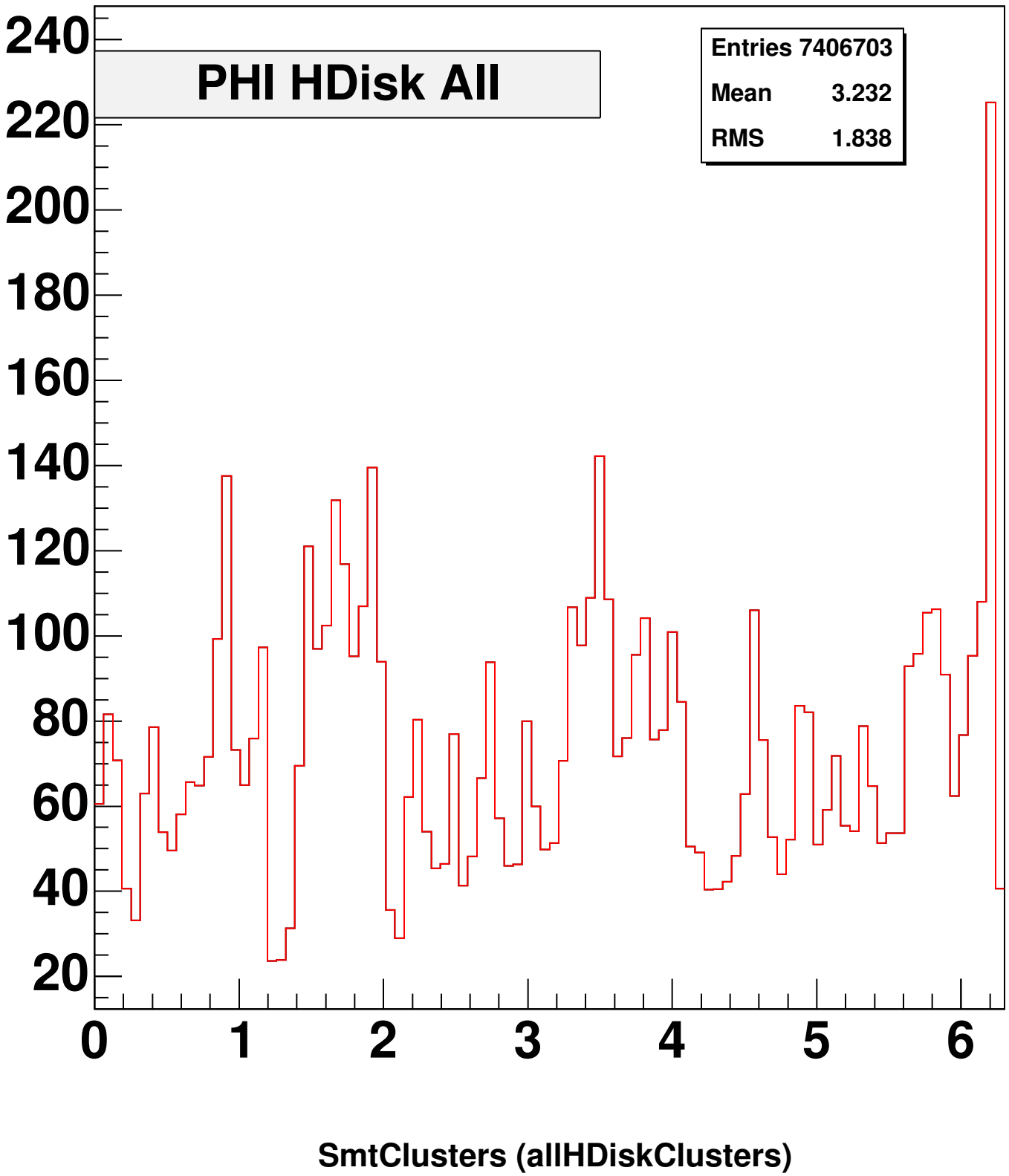
CPS Hit Strips (All Clusters)

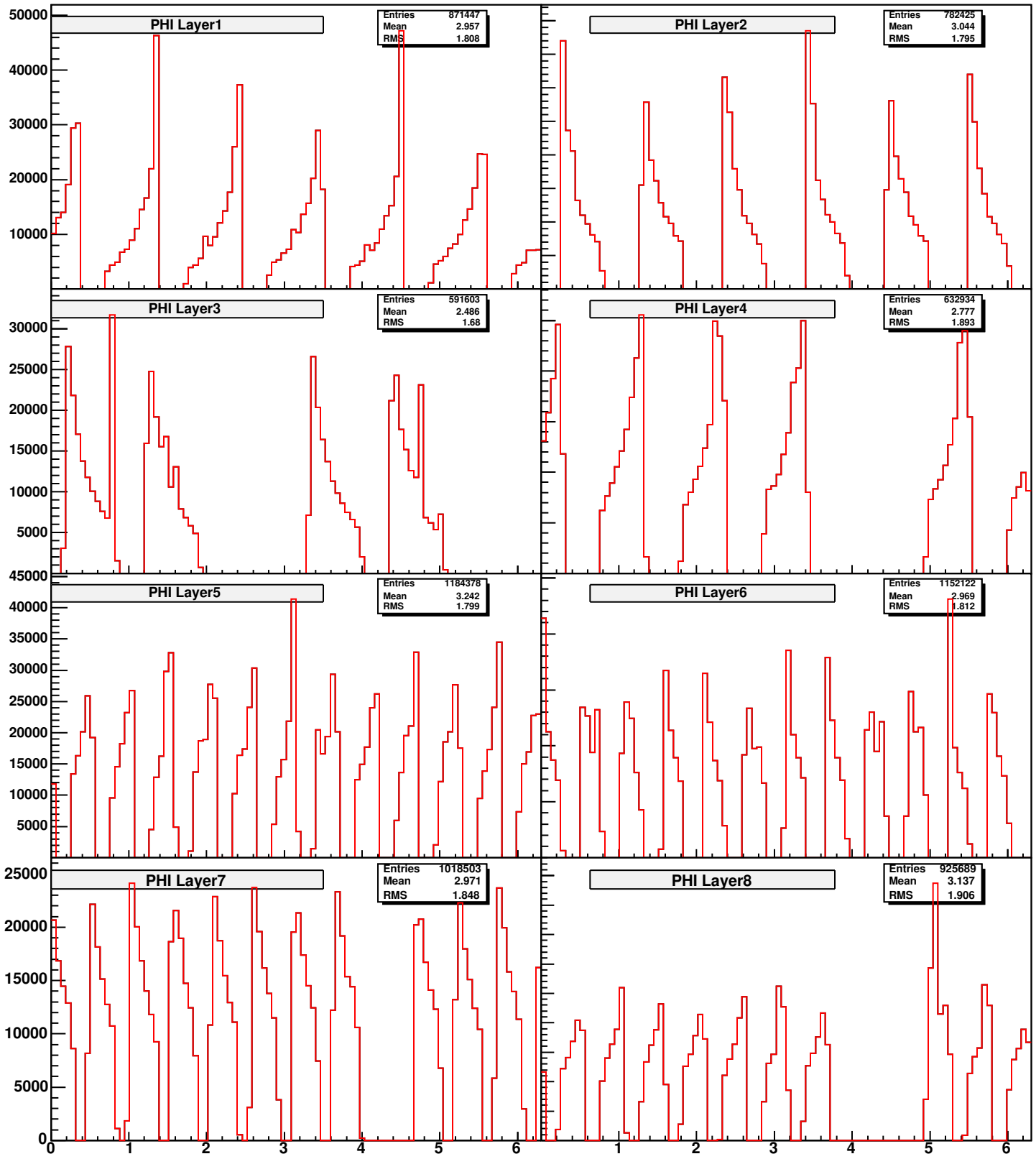


CPS Clusters (All Clusters)

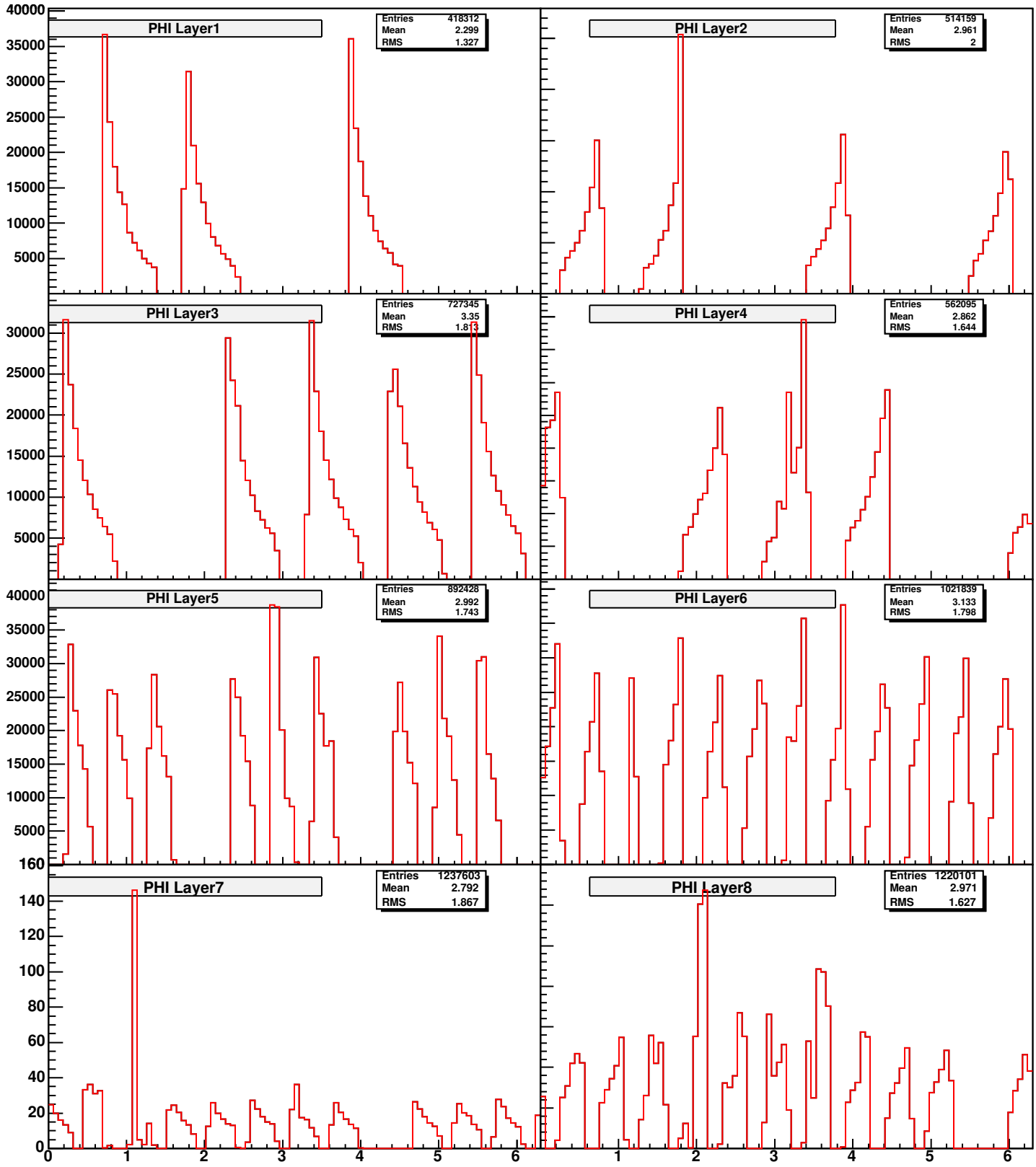

PHI
Entries 3.934058e+07
Mean 3.057
RMS 1.814
700
600
500
400
300
200
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 1.794589e+07
Mean 3.104
RMS 1.816
300
250
200
150
100
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

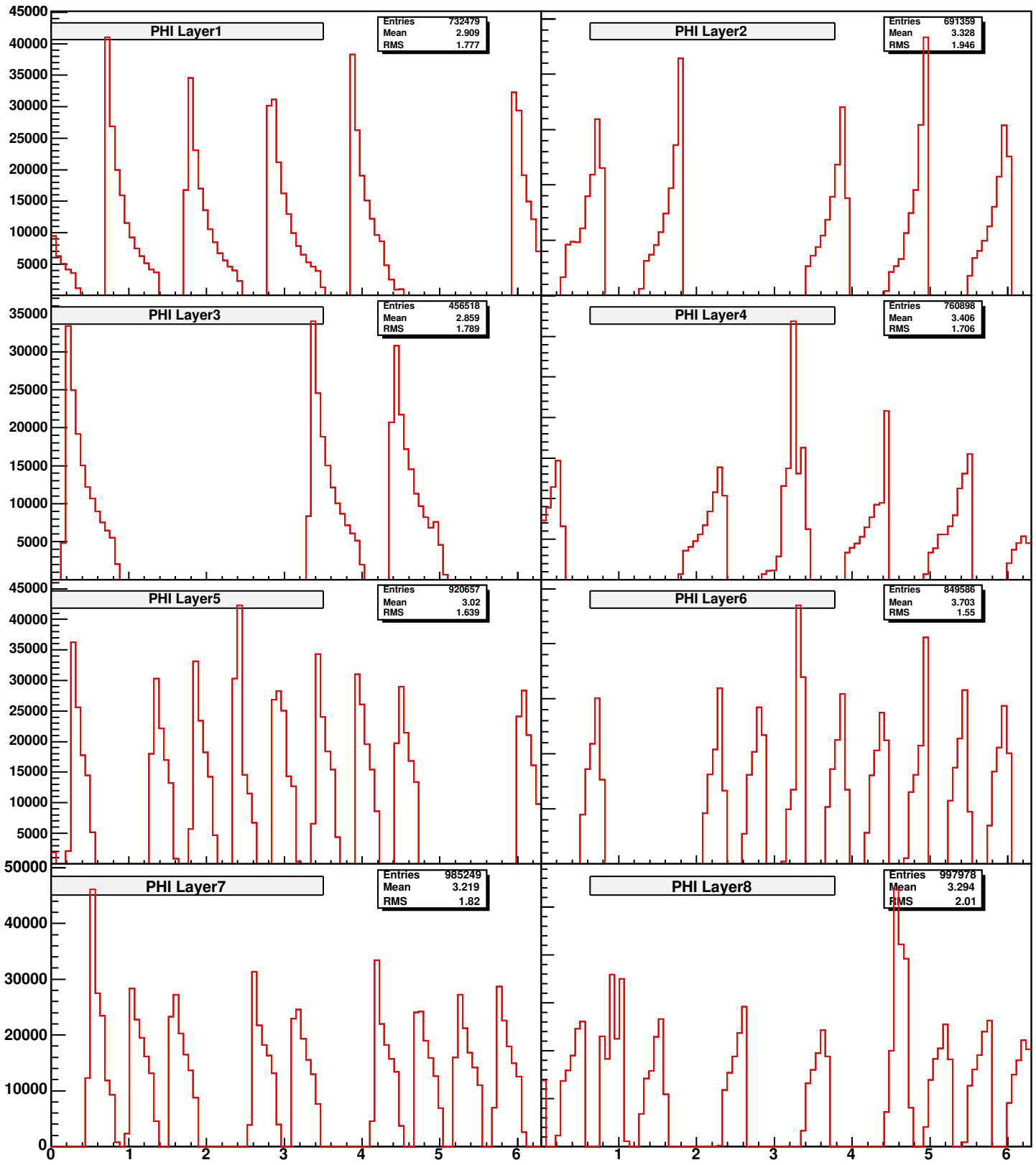

PHI HDisk All
Entries 7406703
Mean 3.232
RMS 1.838
240
220
200
180
160
140
120
100
80
60
40
20
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



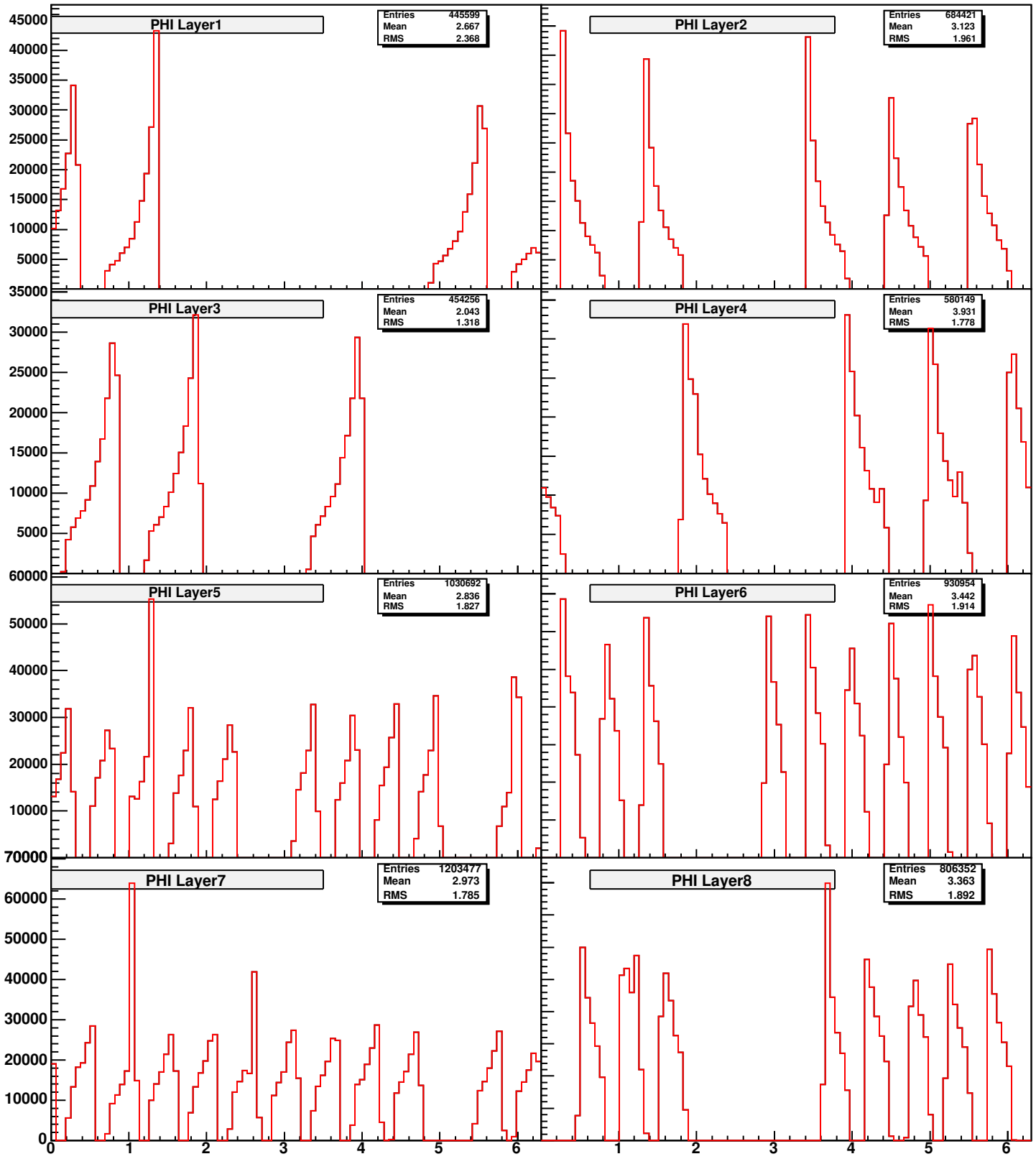
SmtClusters (ClustrBar1)



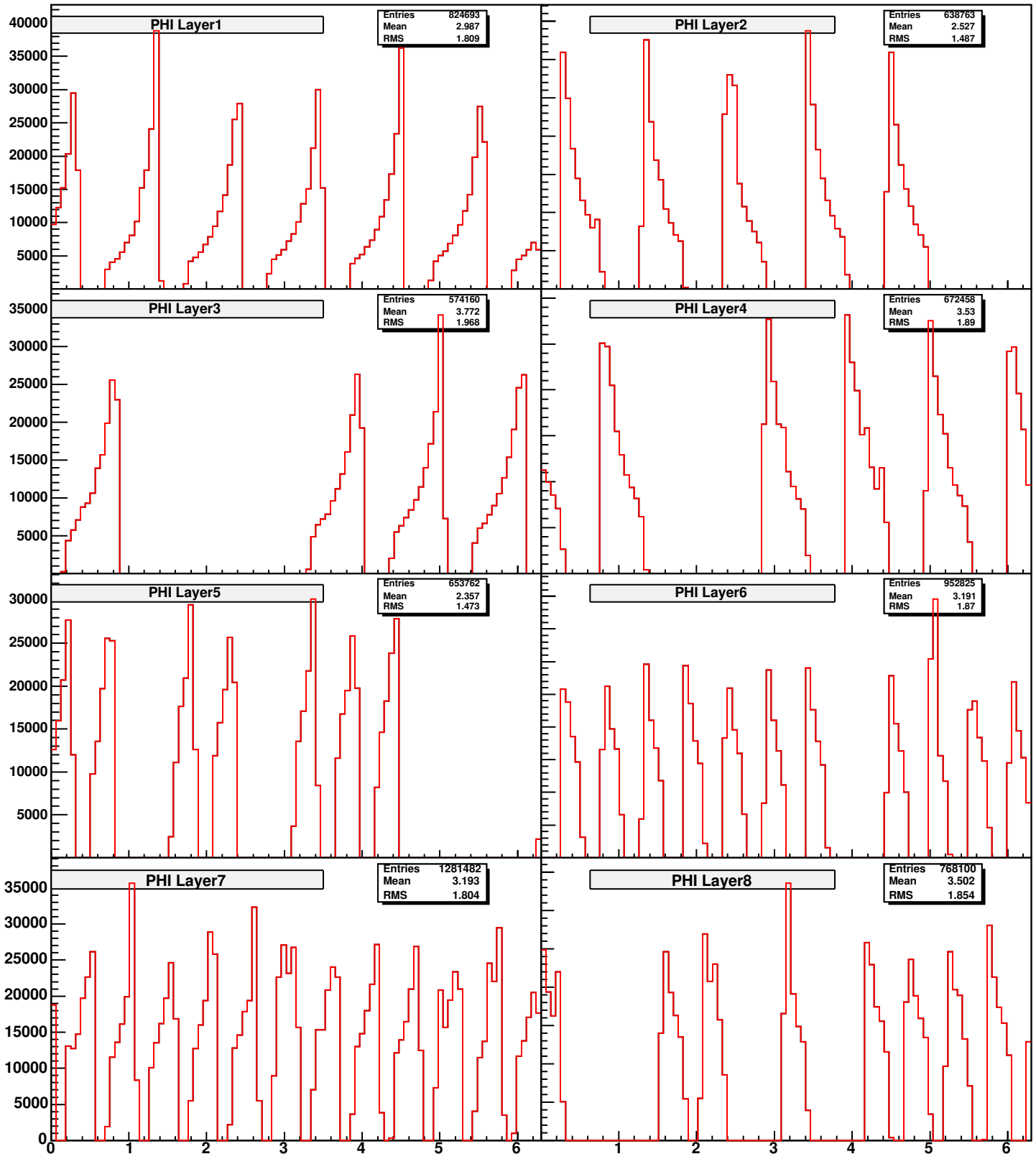
SmtClusters (ClustrBar2)



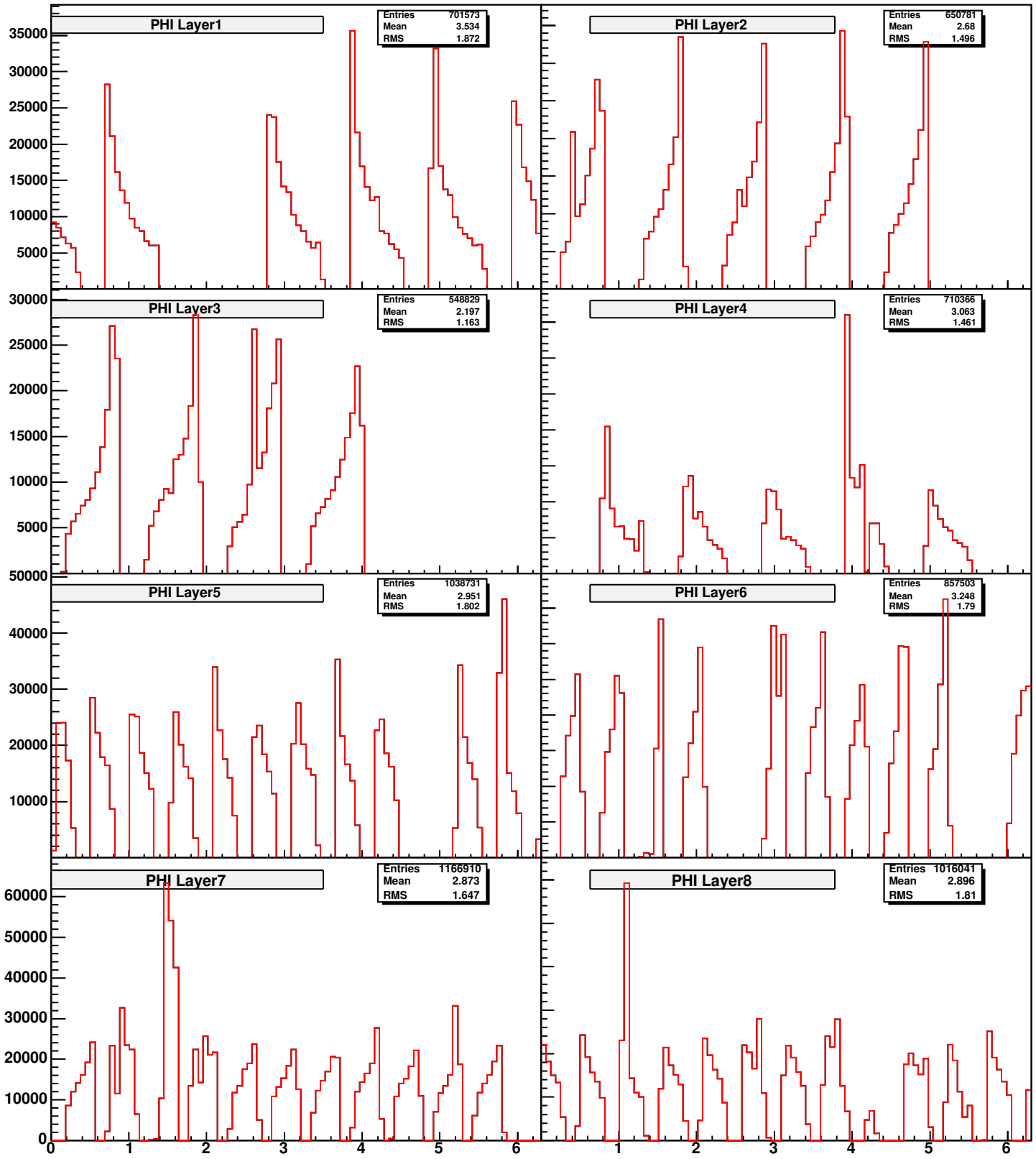
SmtClusters (ClustrBar3)



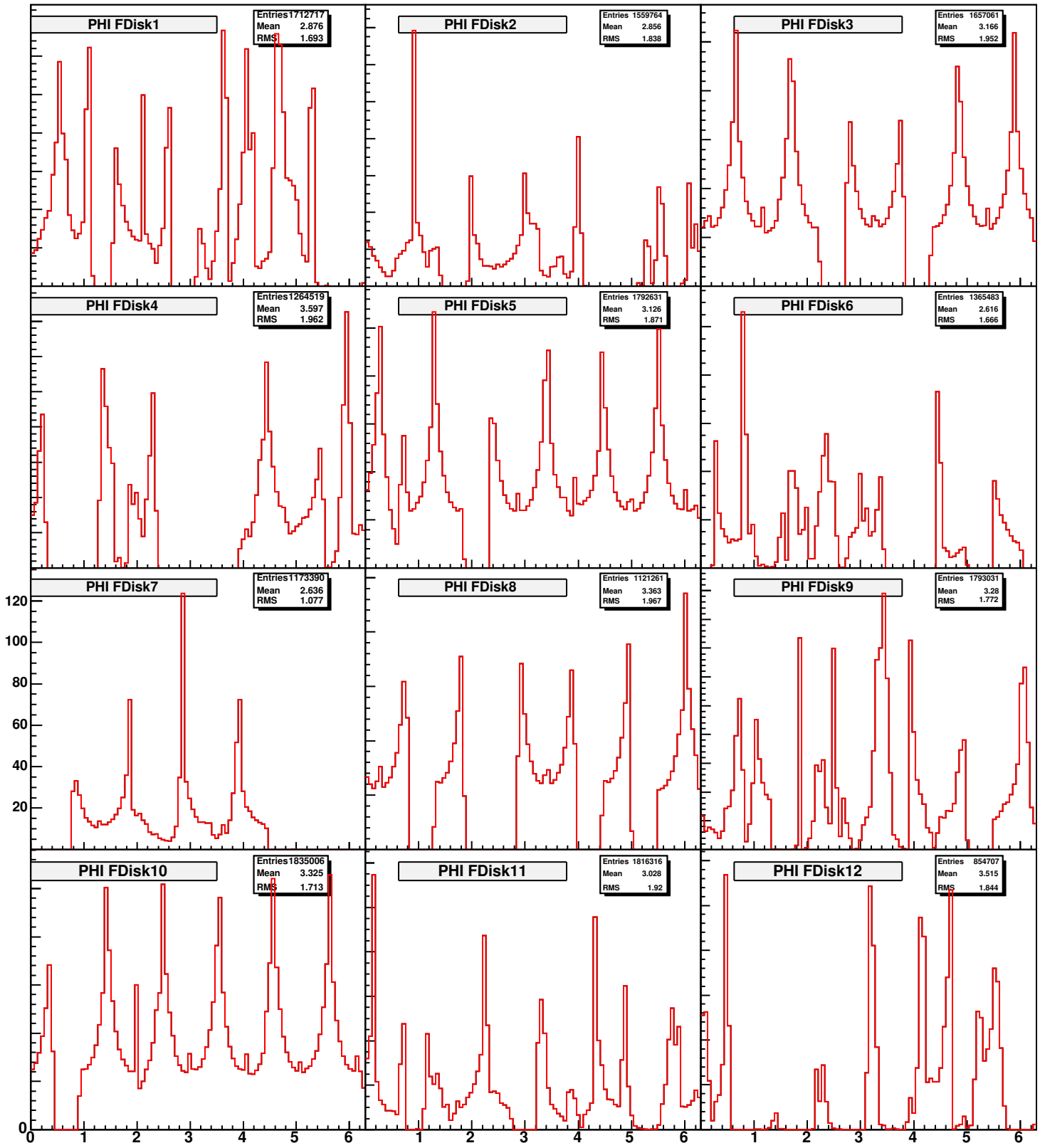
SmtClusters (ClustrBar4)



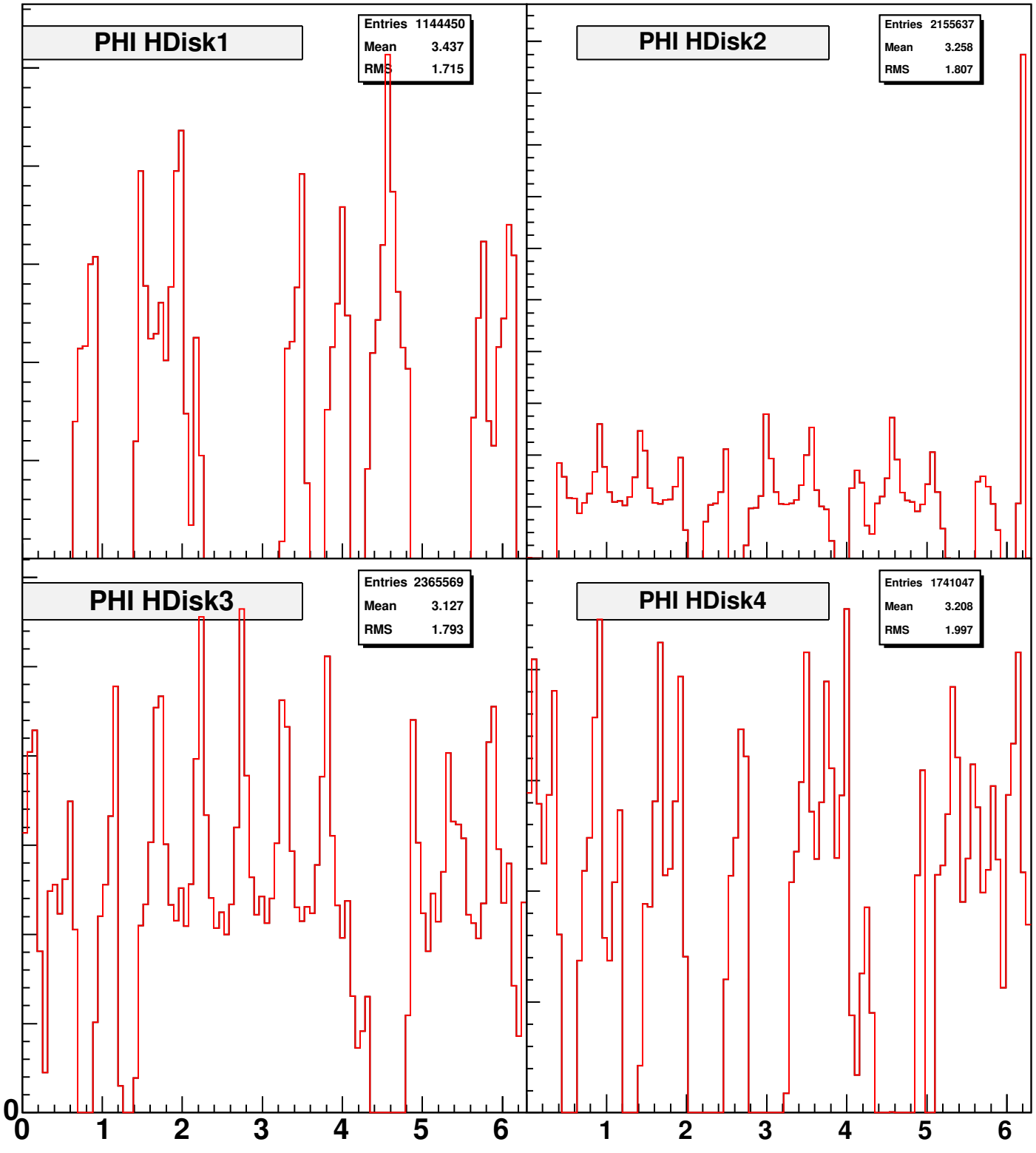
SmtClusters (ClustrBar5)

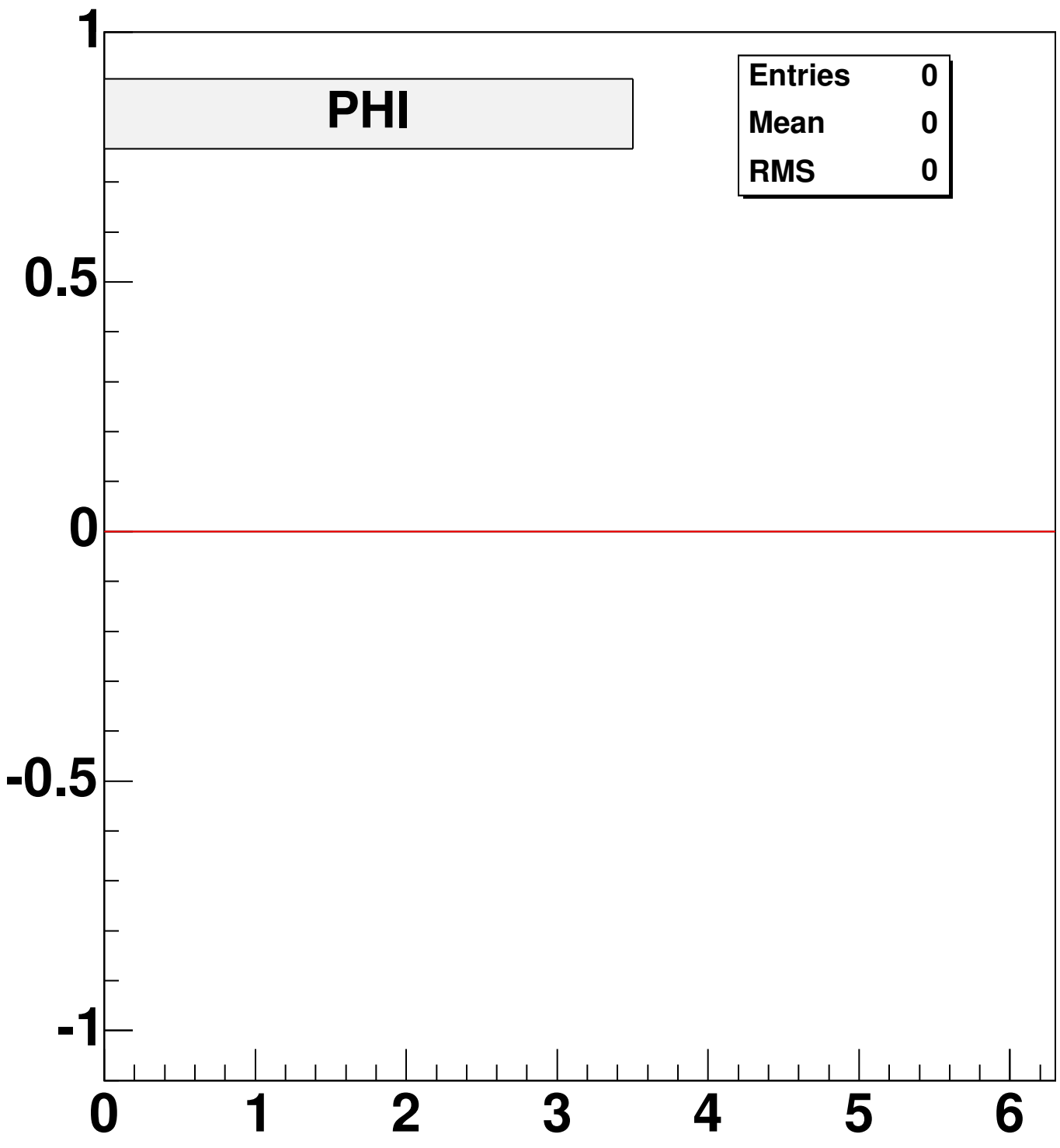


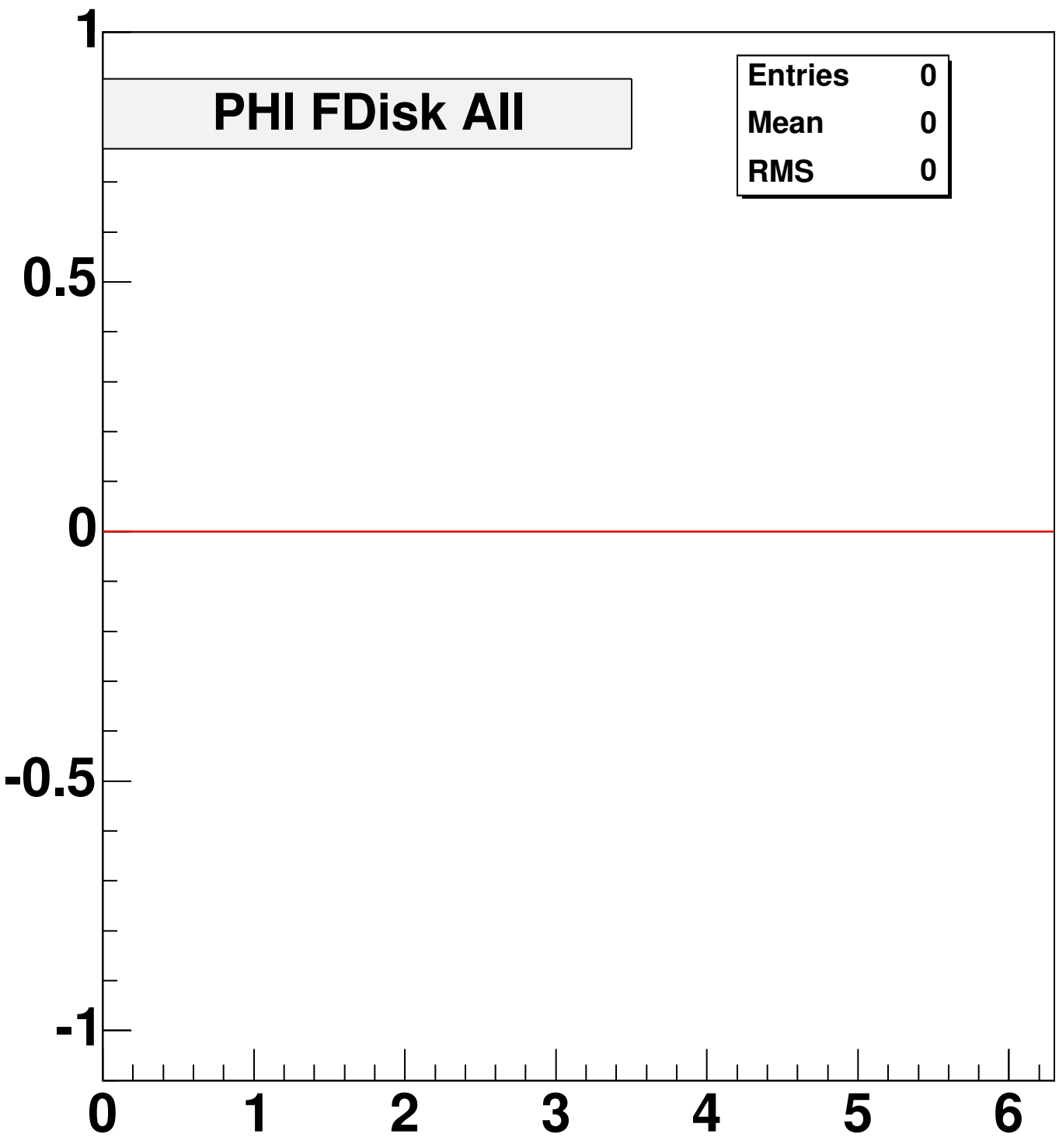
SmtClusters (ClustrBar6)

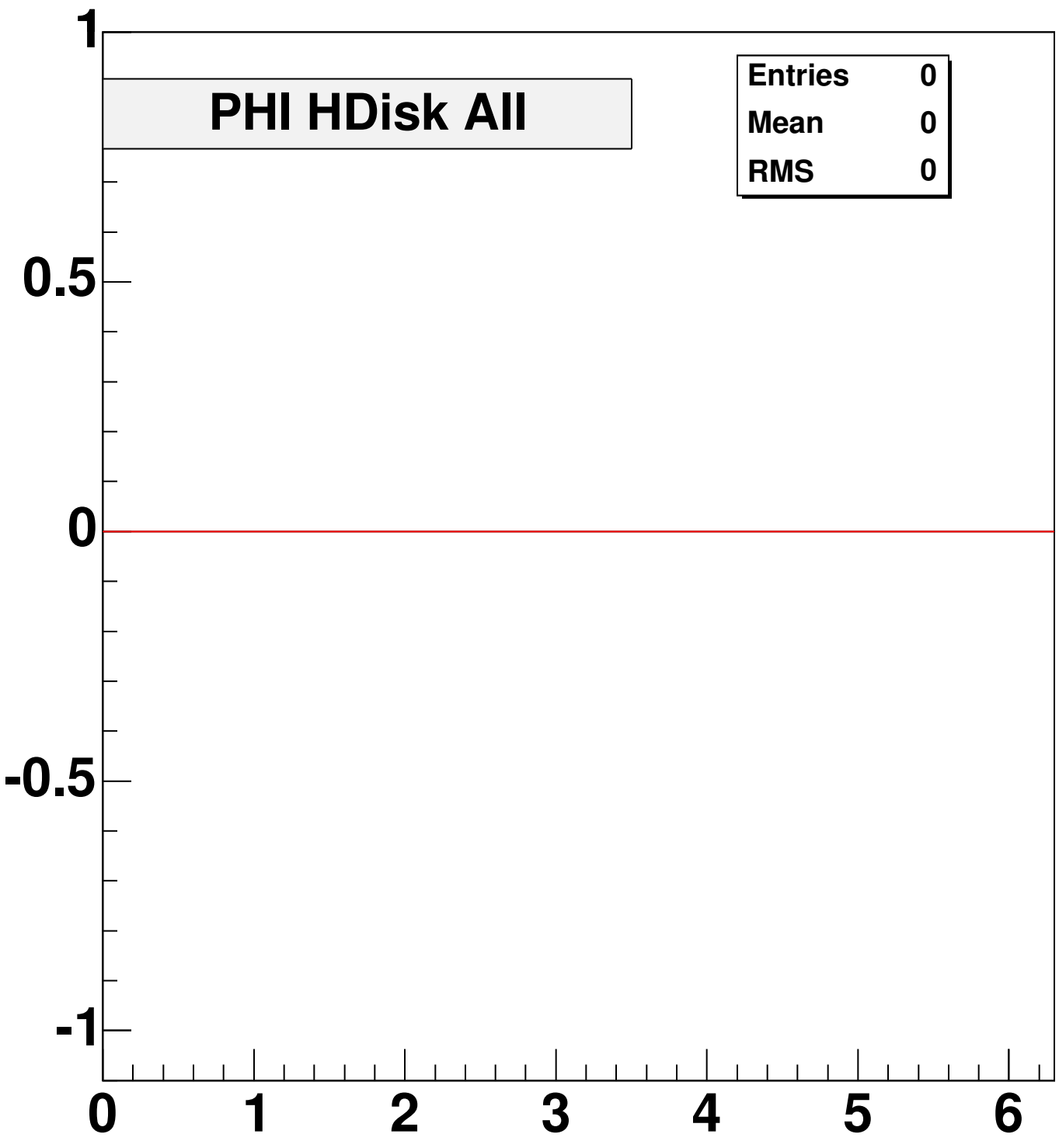


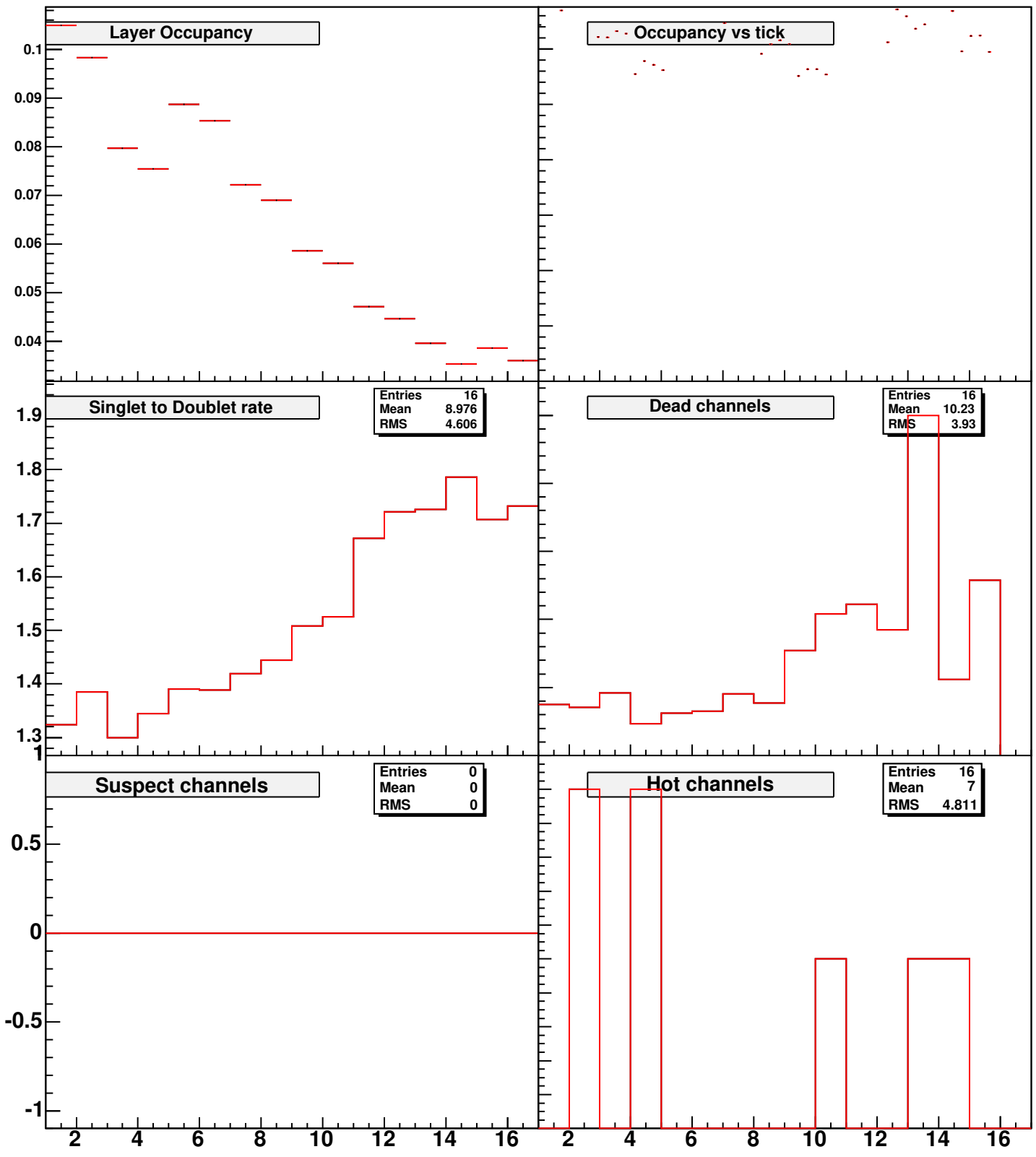
SmtClusters (FDiskClusters)


PHI HDisk1
Entries 1144450
Mean 3.437
RMS 1.715
PHI HDisk2
Entries 2155637
Mean 3.258
RMS 1.807
PHI HDisk3
Entries 2365569
Mean 3.127
RMS 1.793
PHI HDisk4
Entries 1741047
Mean 3.208
RMS 1.997
0
0 1 2 3 4 5 6
1 2 3 4 5 6
SmtClusters (HDiskClusters)

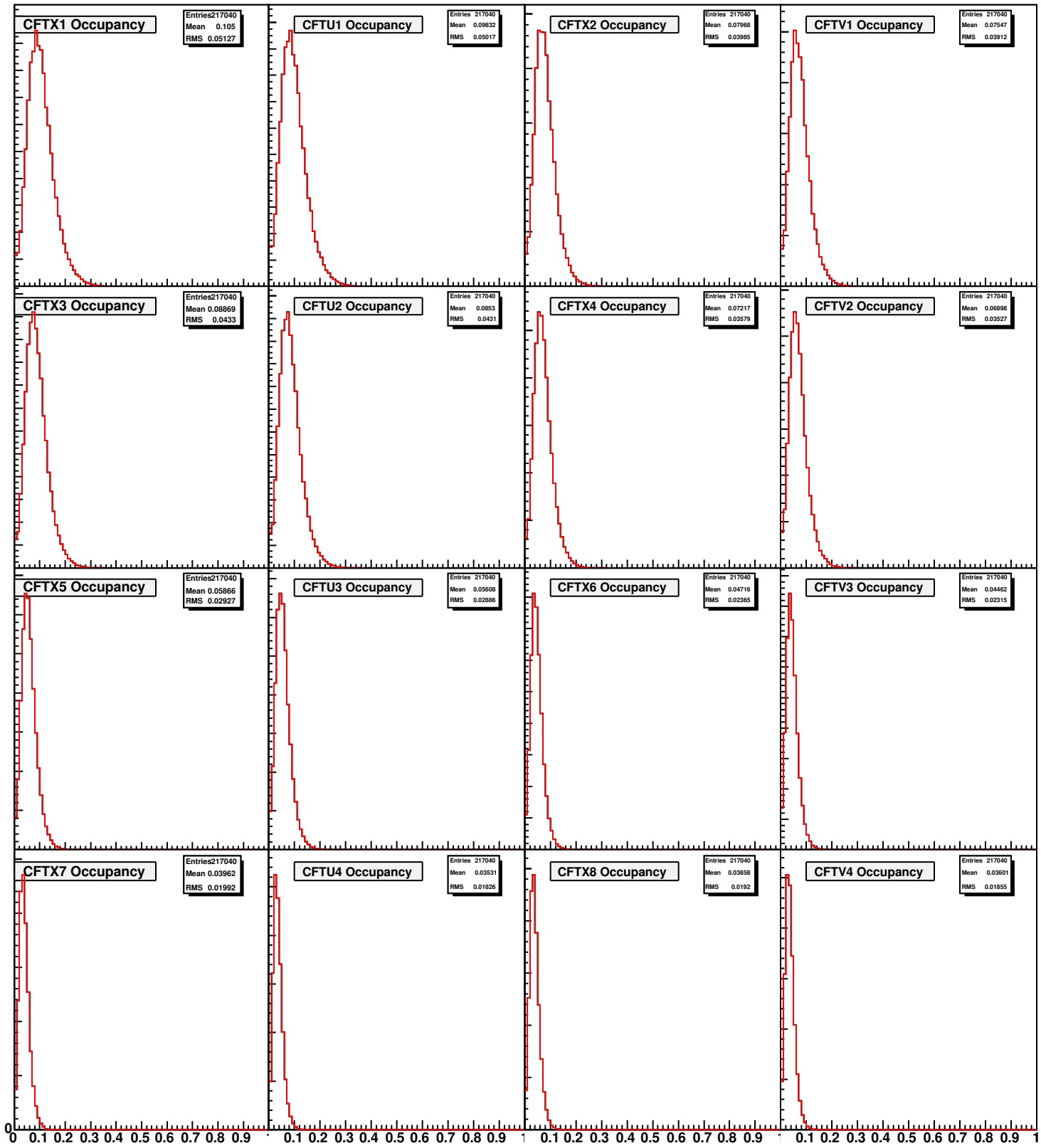

PHI
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)


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

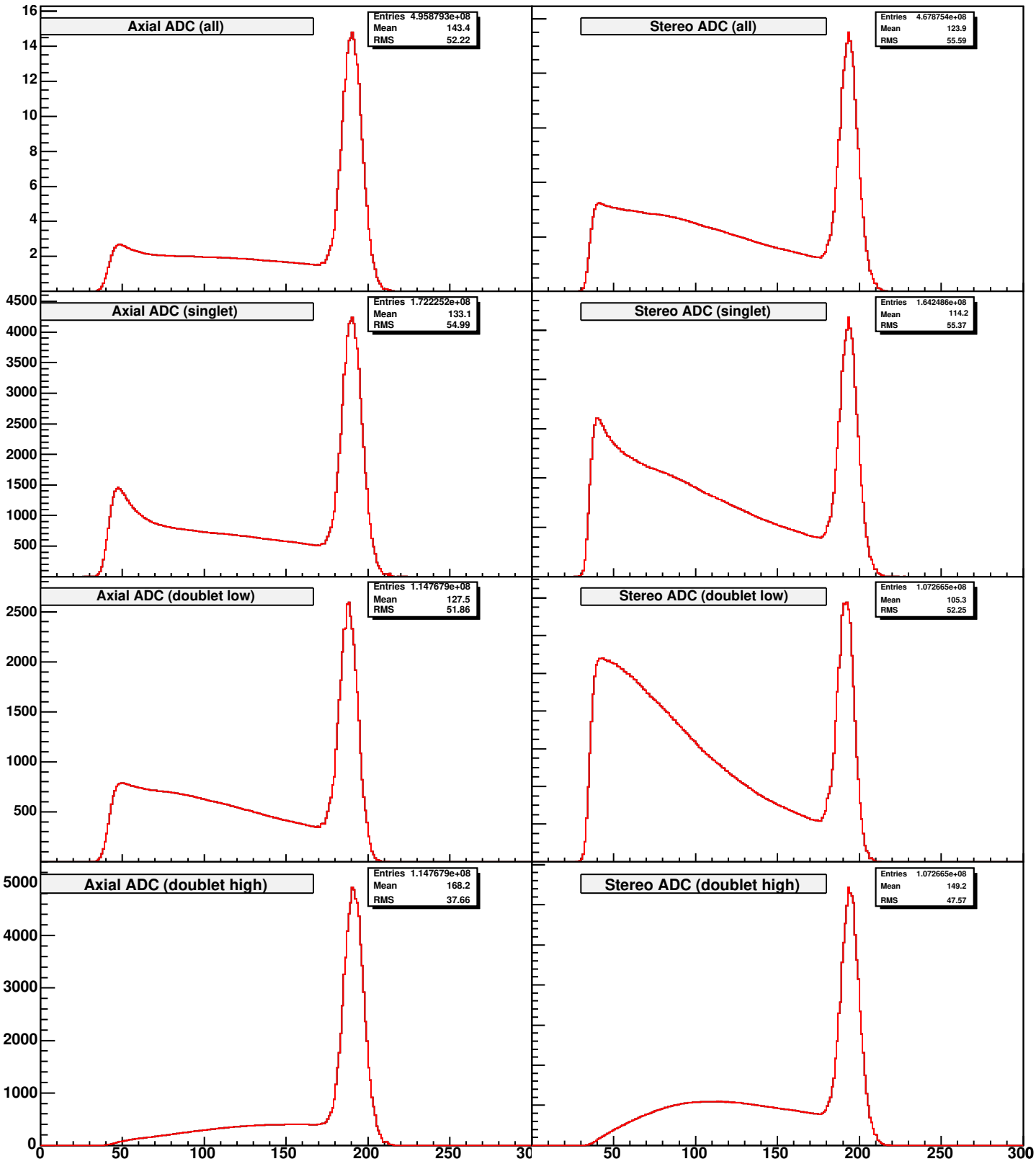

PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allHDiskTClusters)



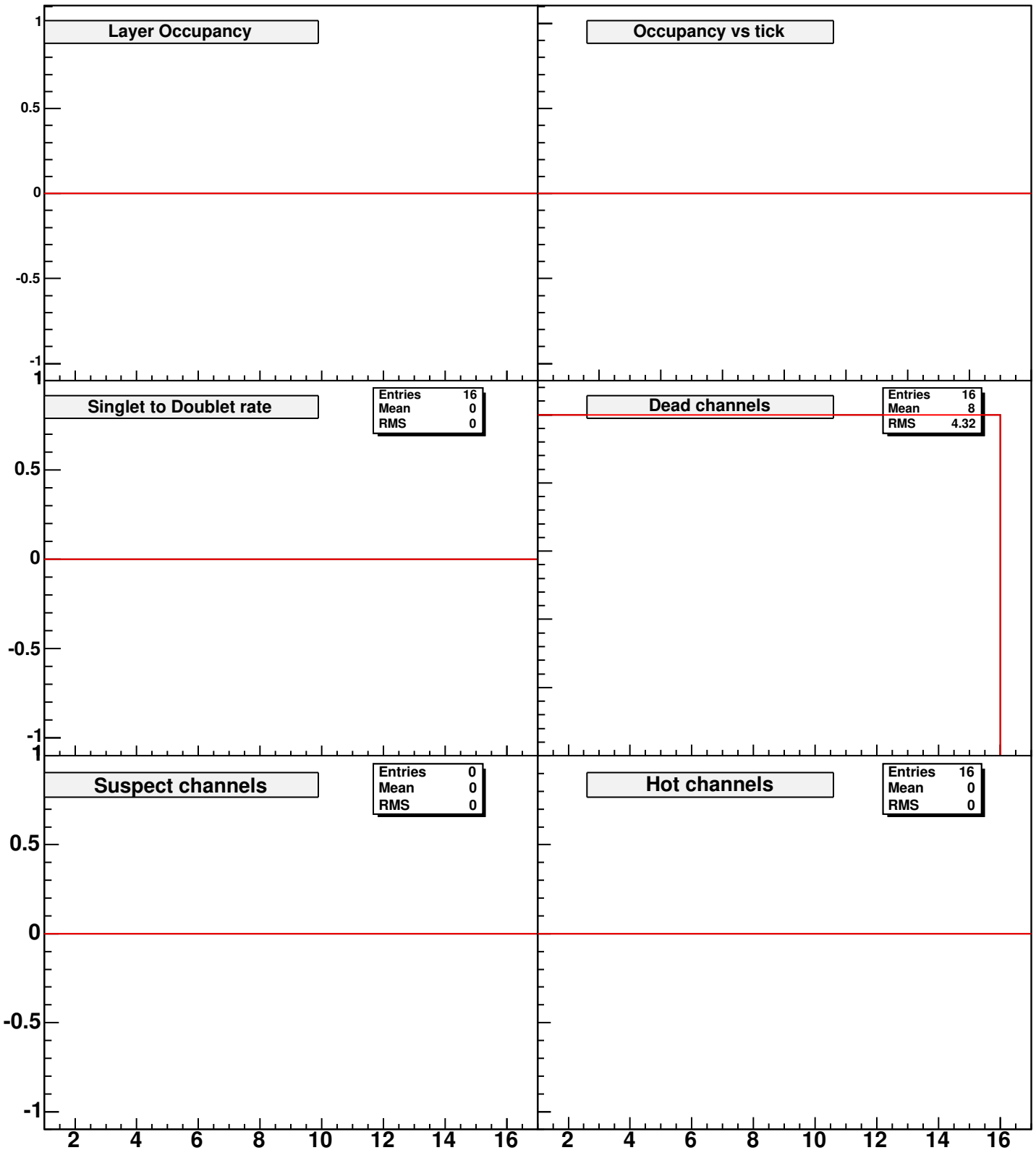
CFT Summary (All Clusters)



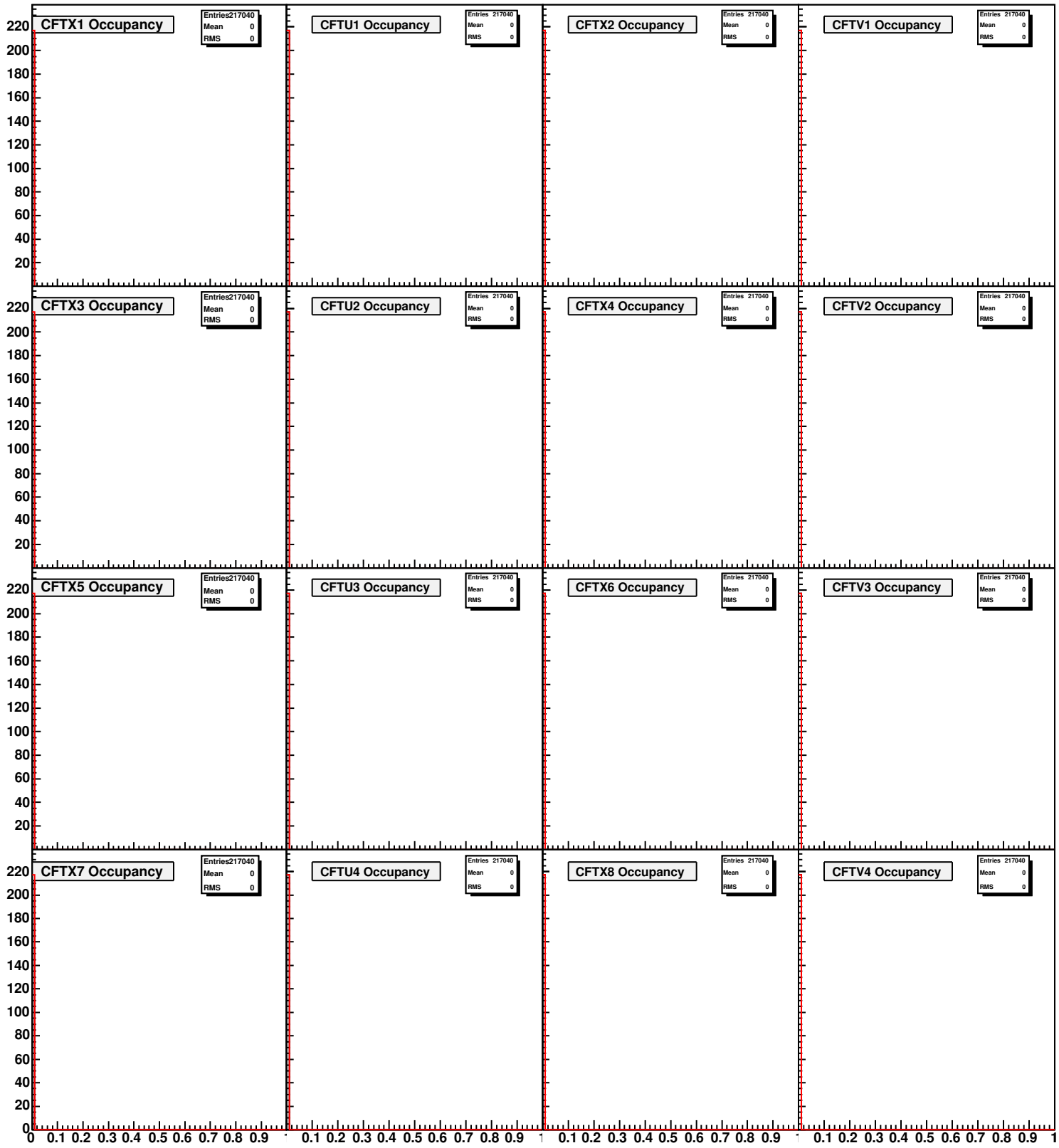
CFT Occupancy (All Clusters)



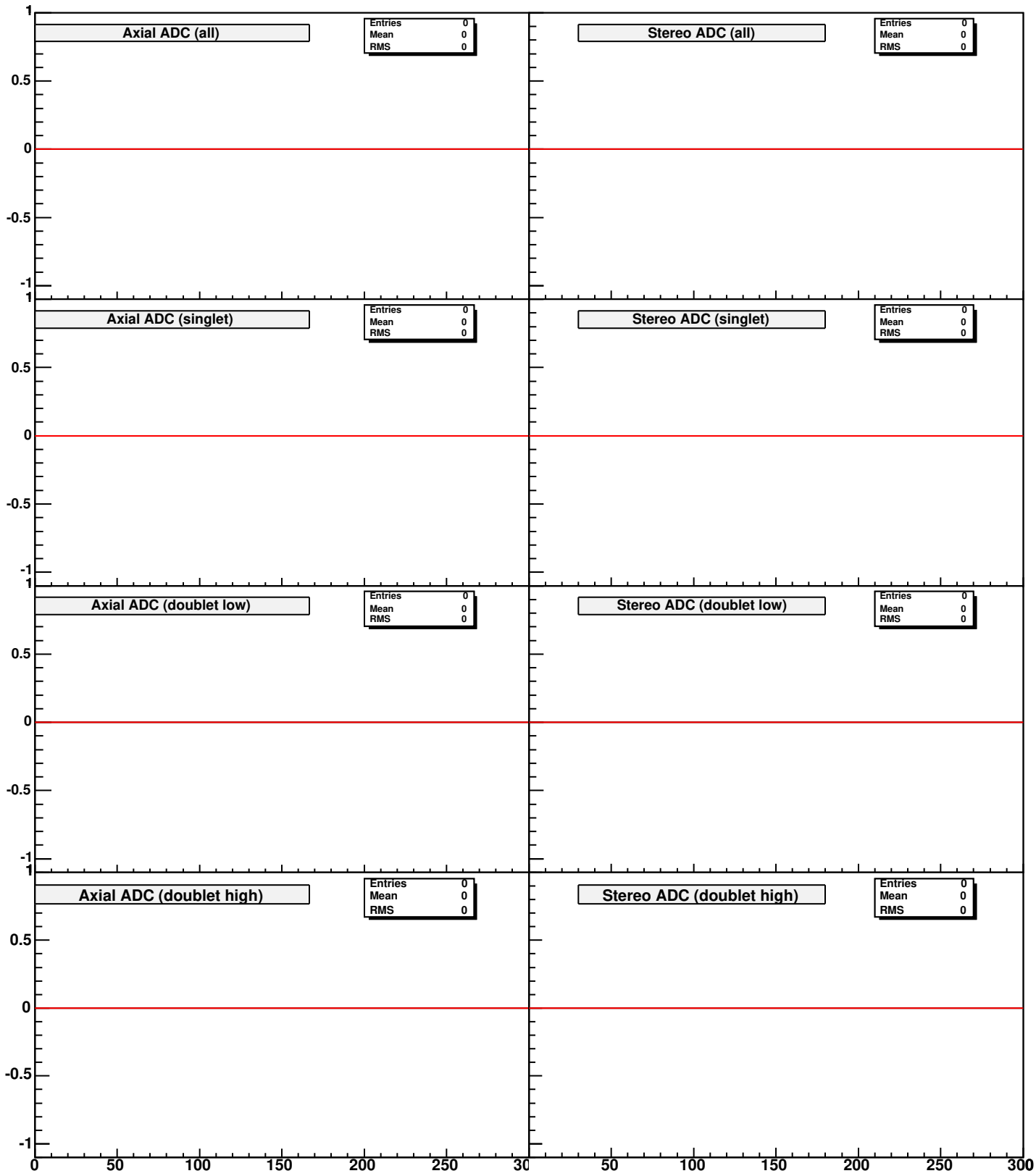
CFT ADC Summary (All Clusters)



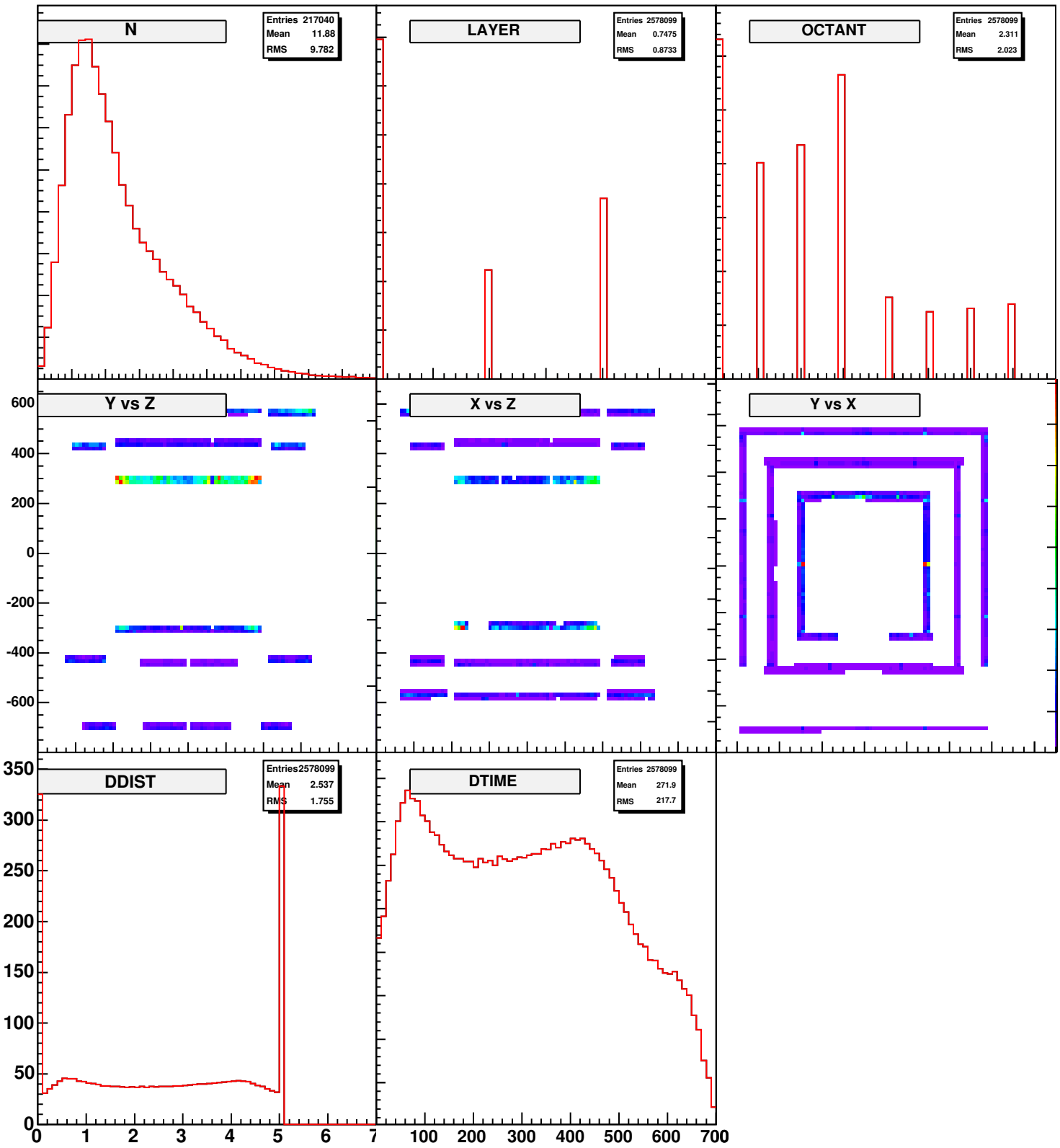
CFT Summary (Clusters on tracks)



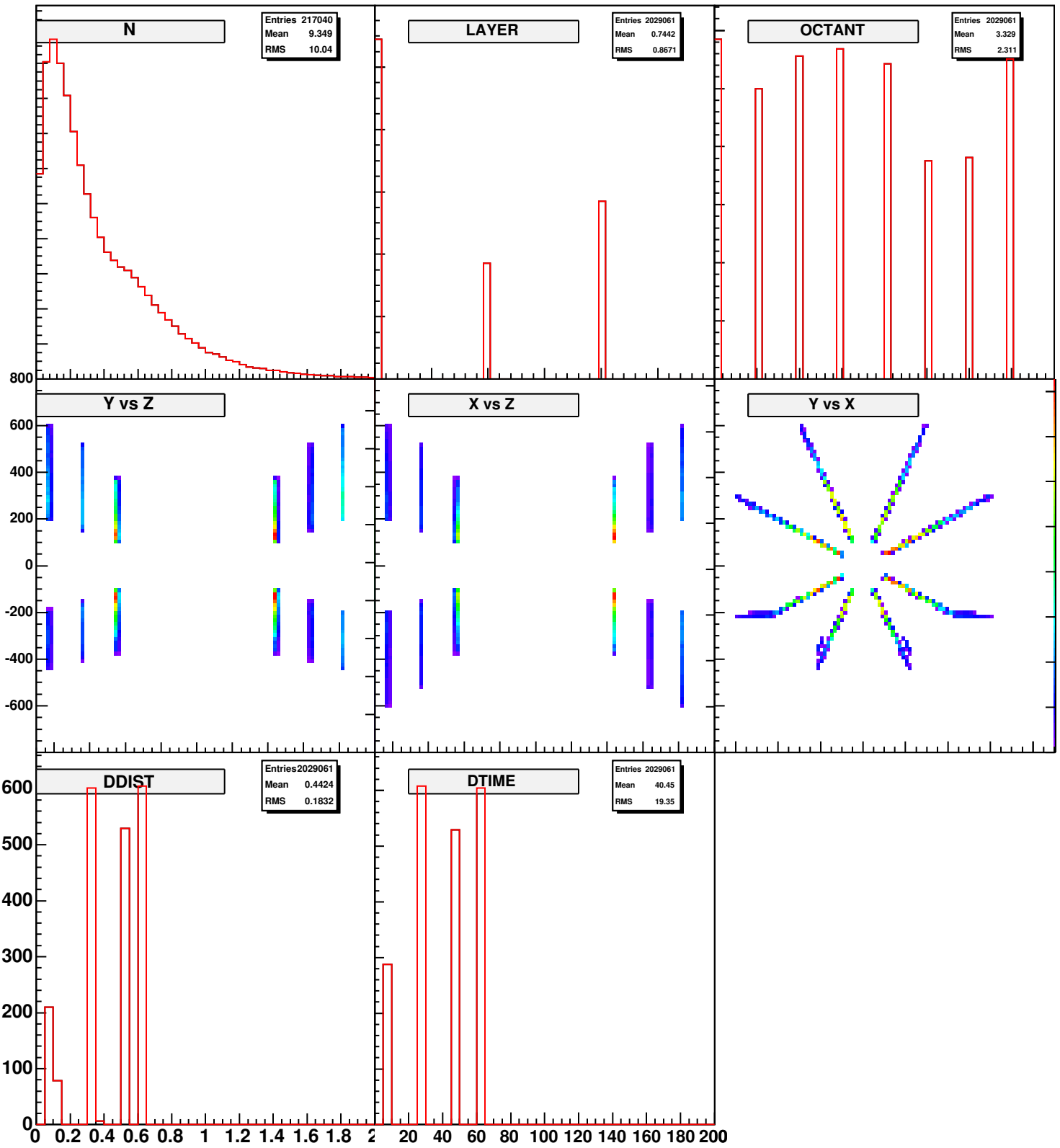
CFT Occupancy (Clusters on tracks)



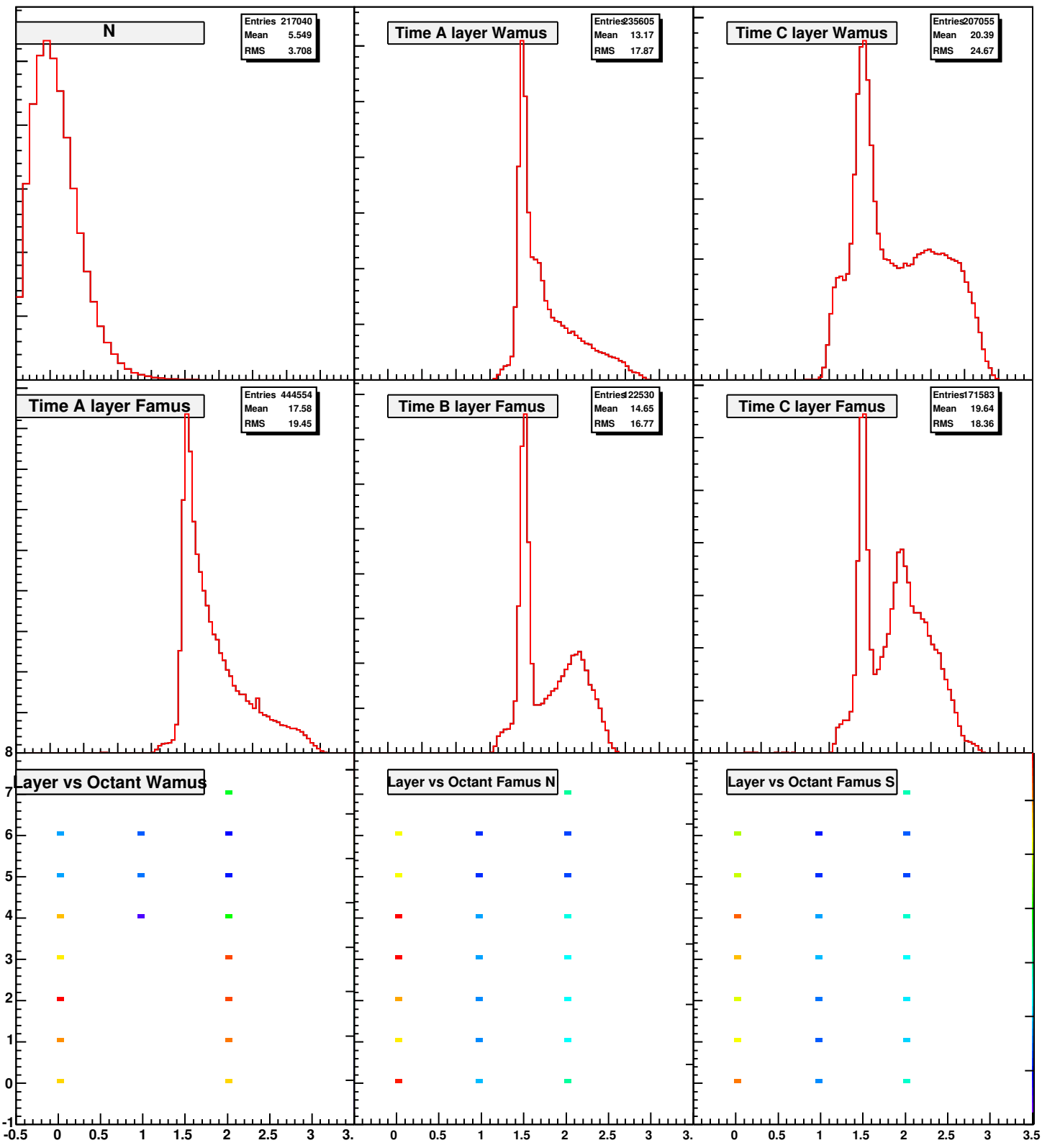
CFT ADC Summary (Clusters on tracks)


N
Entries 217040
Mean 11.88
RMS 9.782
LAYER
Entries 2578099
Mean 0.7475
RMS 0.8733
OCTANT
Entries 2578099
Mean 2.311
RMS 2.023
Y vs Z
X vs Z
Y vs X
DDIST
Entries 2578099
Mean 2.537
RMS 1.755
DTIME
Entries 2578099
Mean 271.9
RMS 217.7

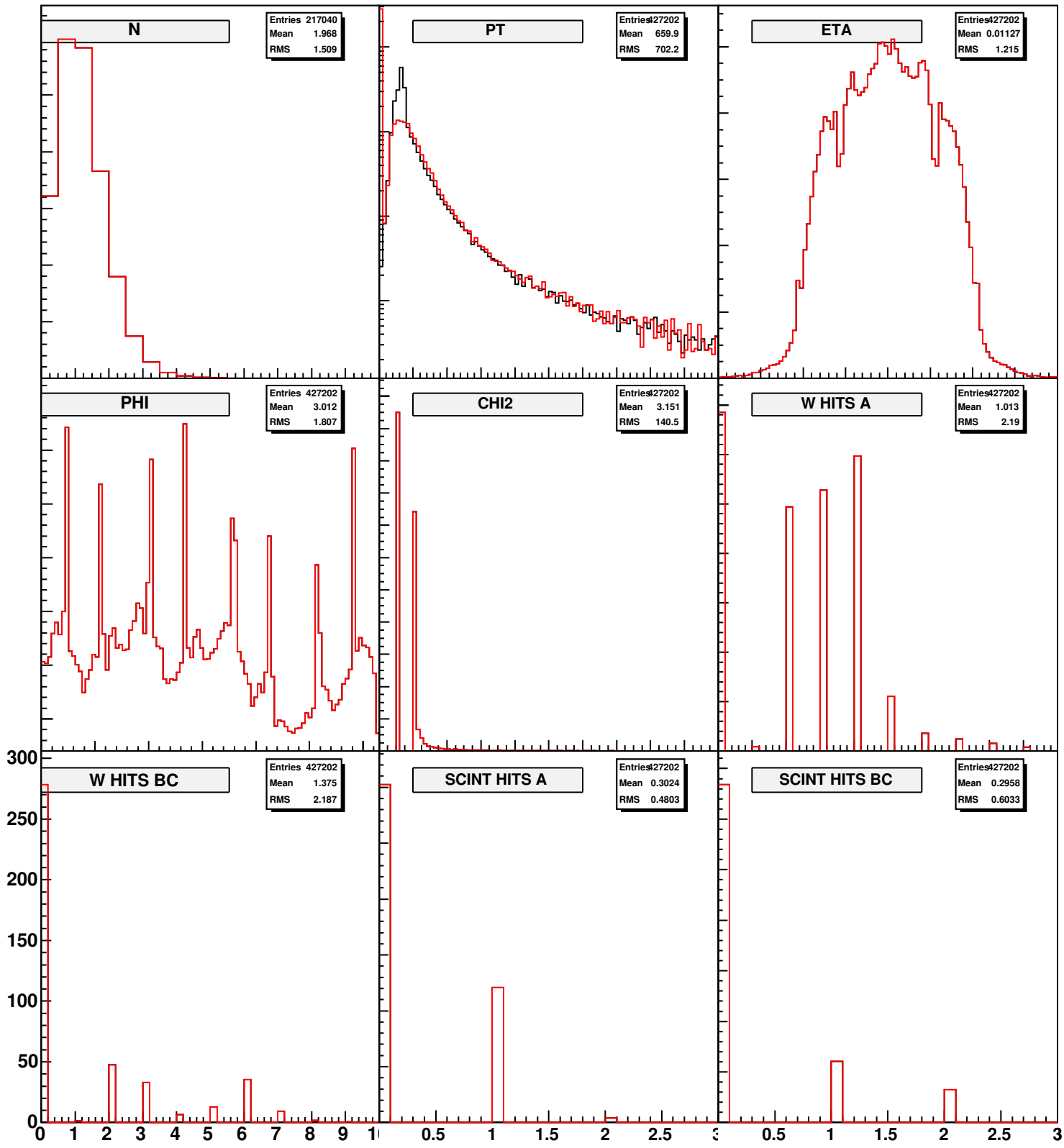
MuonPDT (All)


N
Entries 217040
Mean 9.349
RMS 10.04
LAYER
Entries 2029061
Mean 0.7442
RMS 0.8671
OCTANT
Entries 2029061
Mean 3.329
RMS 2.311
Y vs Z
X vs Z
Y vs X
DDIST
Entries 2029061
Mean 0.4424
RMS 0.1832
DTIME
Entries 2029061
Mean 40.45
RMS 19.35

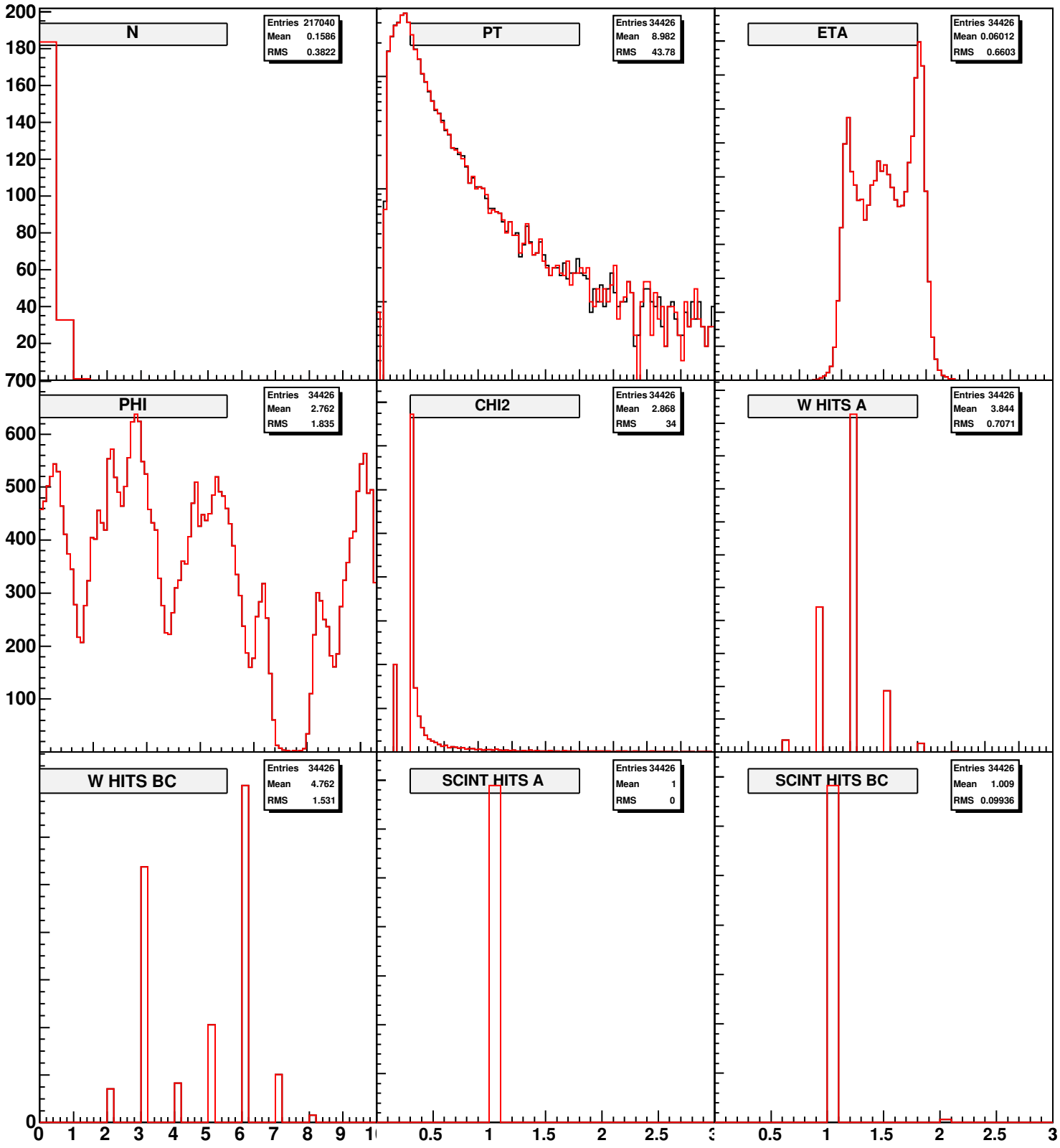
MuonMDT (All)


N
Entries 217040
Mean 5.549
RMS 3.708
Time A layer Wamus
Entries 235605
Mean 13.17
RMS 17.87
Time C layer Wamus
Entries 207055
Mean 20.39
RMS 24.67
Time A layer Famus
Entries 444554
Mean 17.58
RMS 19.45
Time B layer Famus
Entries 122530
Mean 14.65
RMS 16.77
Time C layer Famus
Entries 171583
Mean 19.64
RMS 18.36
Layer vs Octant Wamus
Layer vs Octant Famus N
Layer vs Octant Famus S
8
7
6
5
4
3
2
1
0
-1
-0.5 0 0.5 1 1.5 2 2.5 3 3.
0 0.5 1 1.5 2 2.5 3 3.
0 0.5 1 1.5 2 2.5 3 3.5

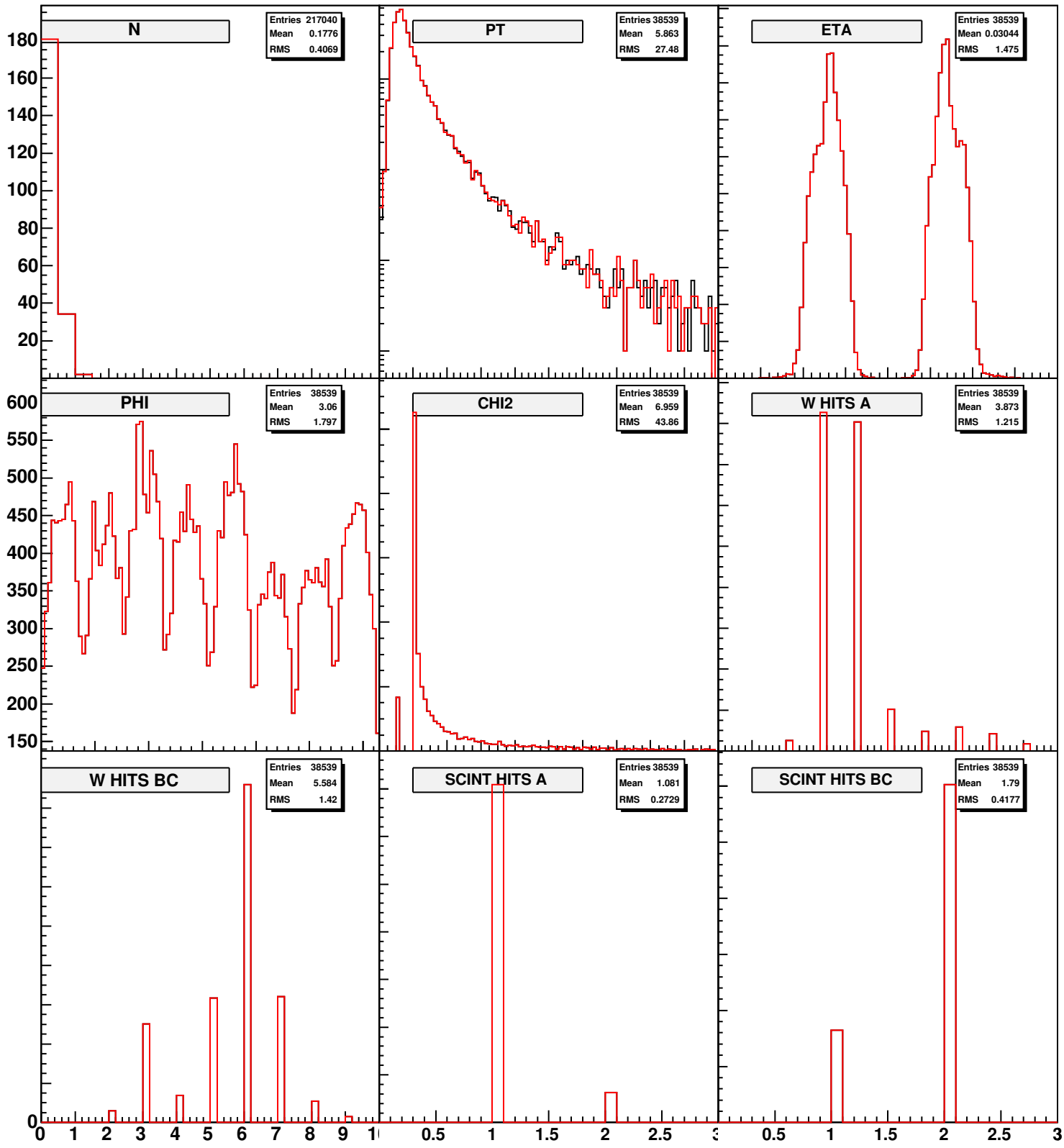
MuonMSC (All)



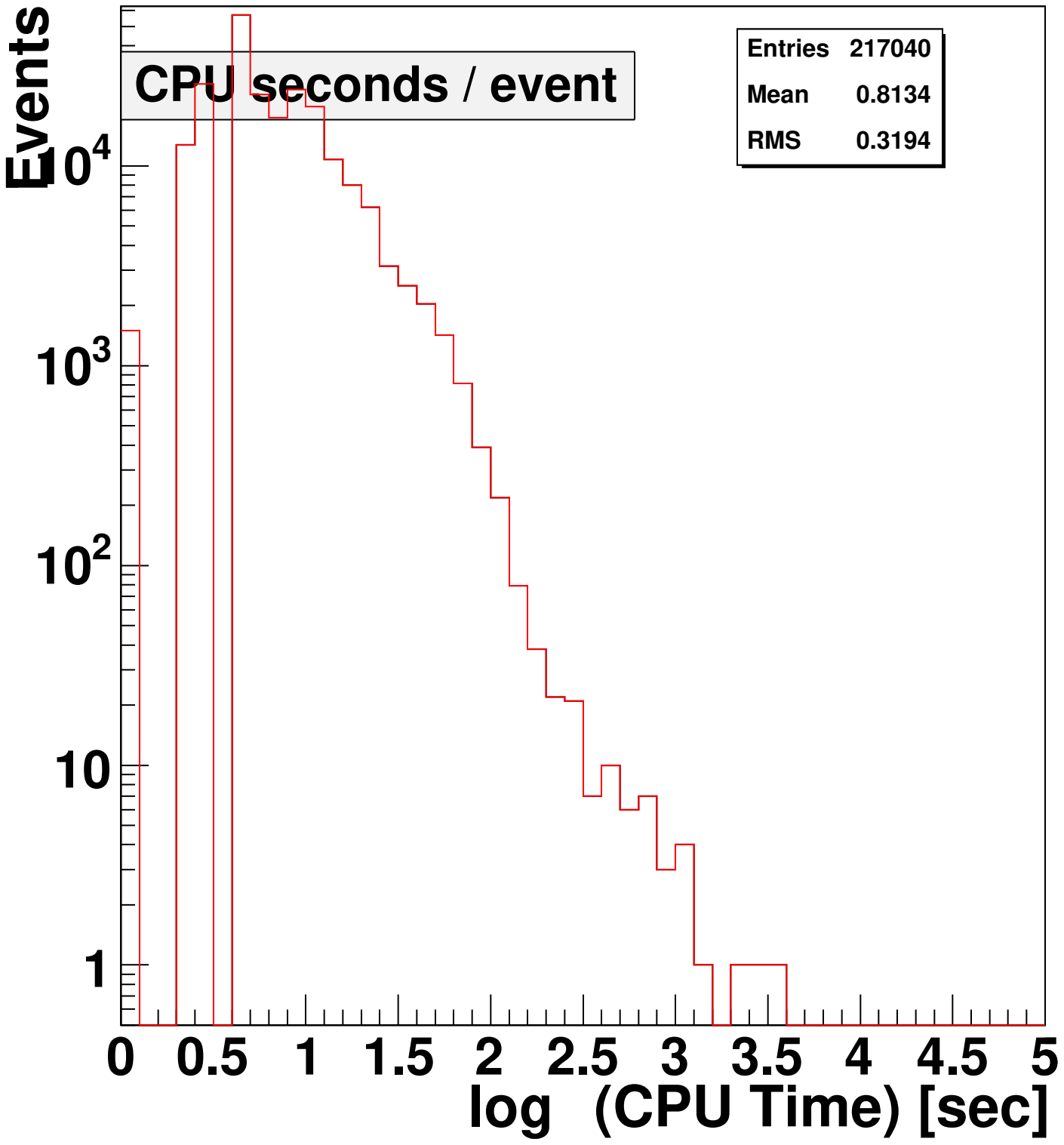
Muon Local Tracks (All)



Muon Local Tracks (MediumWamus)



Muon Local Tracks (MediumFamus)



RECO Performance (Timing)