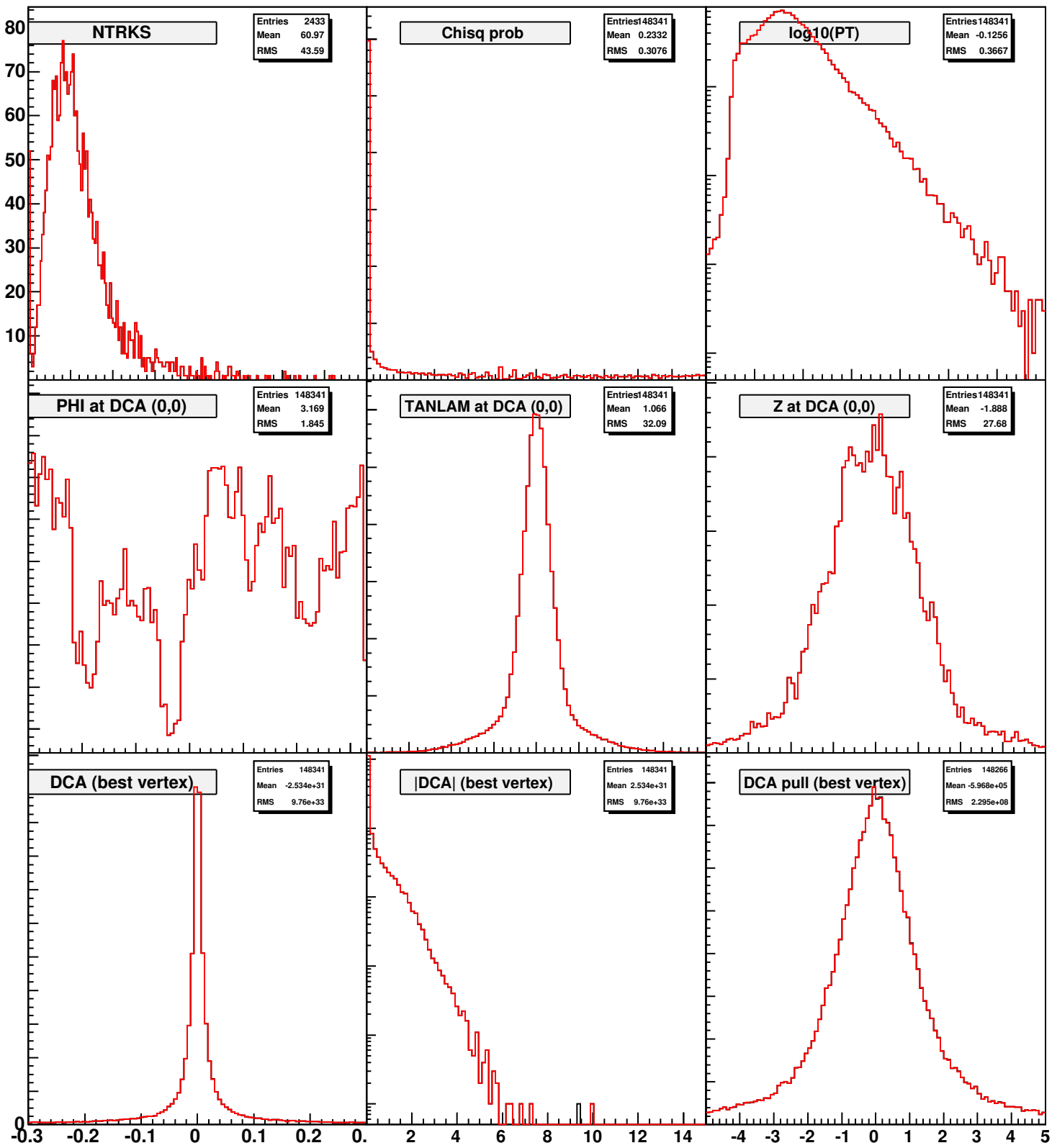
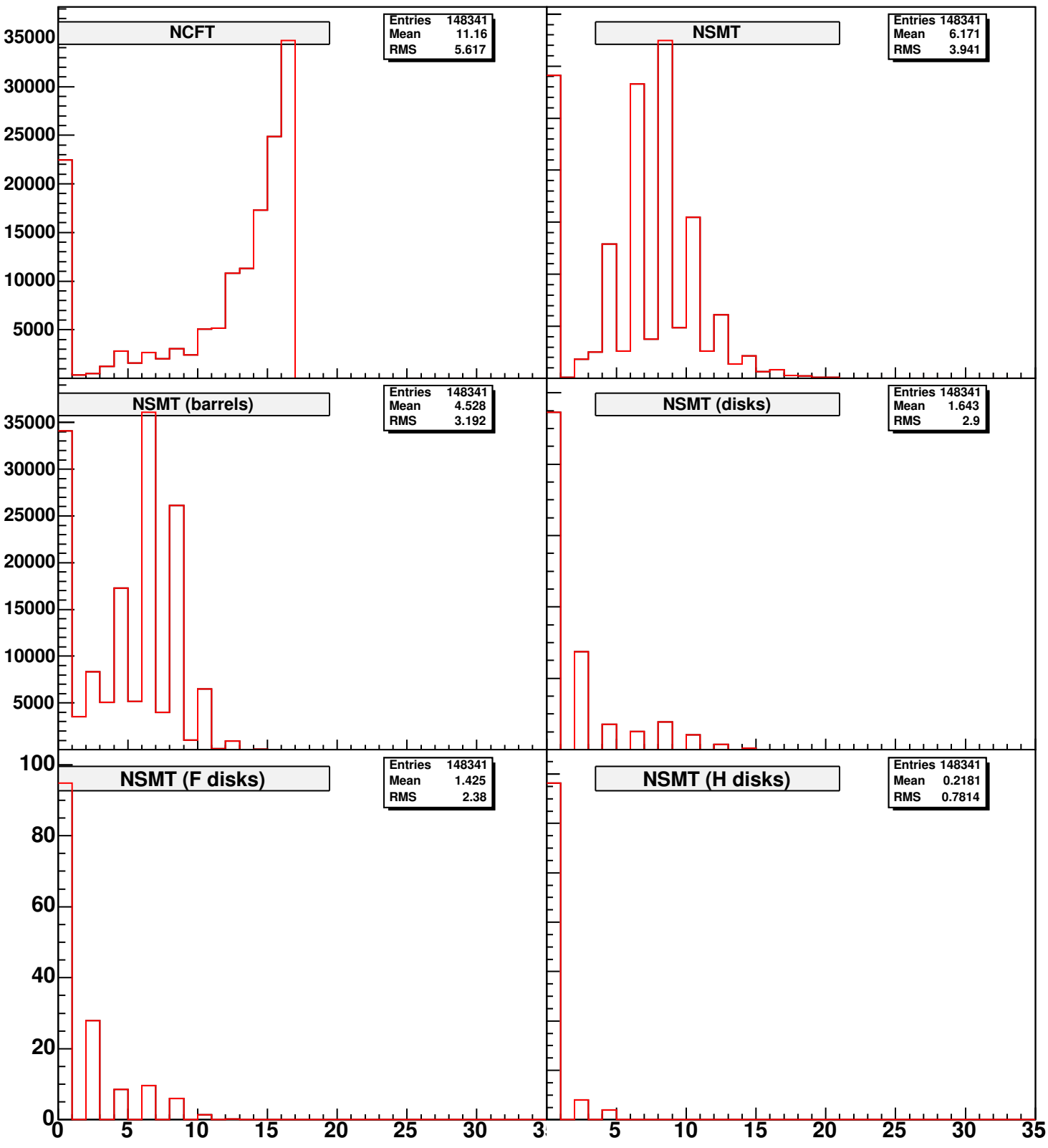
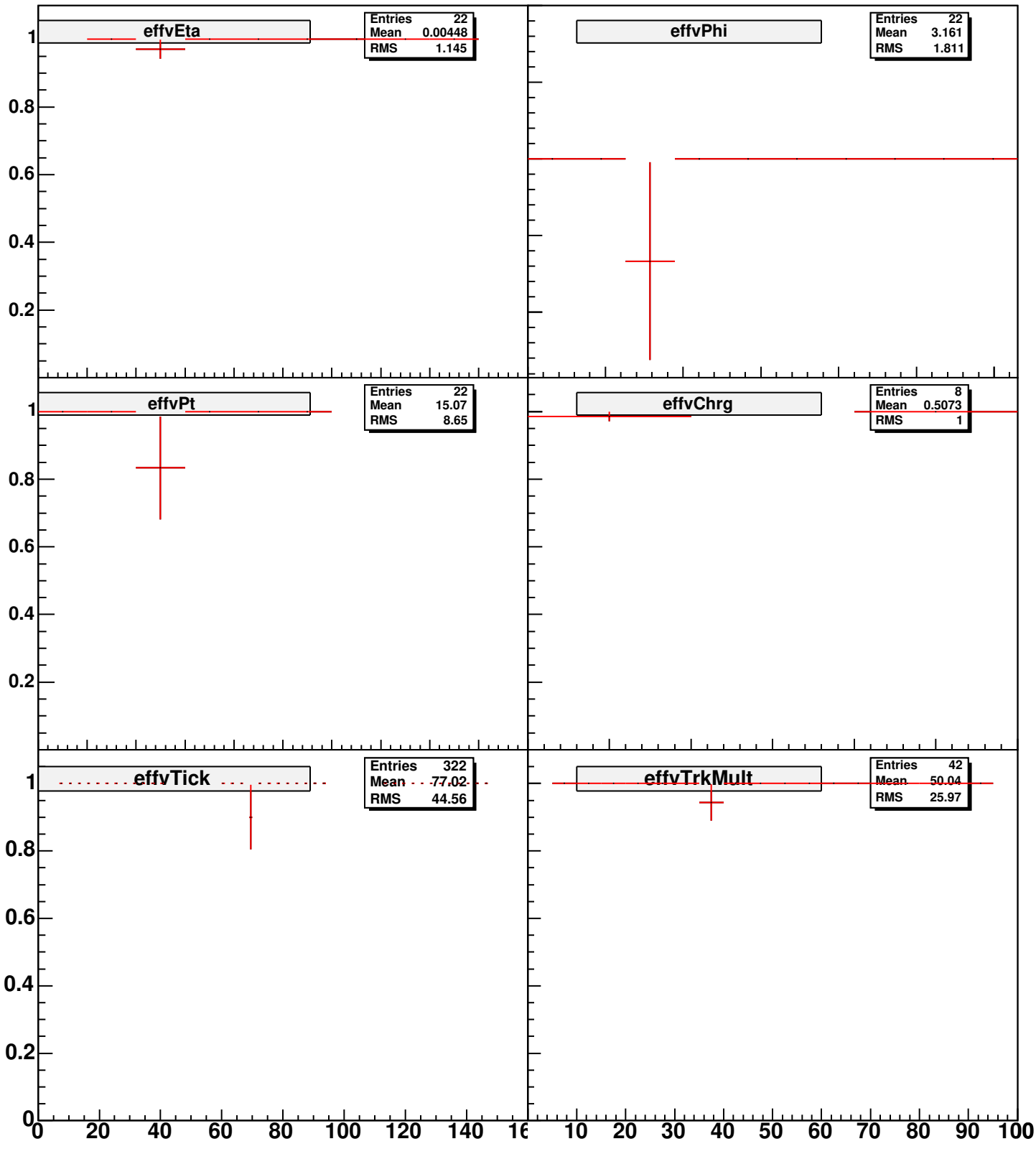
# dayset-2004-08-18-196489-0_001-012_certificatio

# dayset-2004-08-18-196489-0_001-012_certificatio

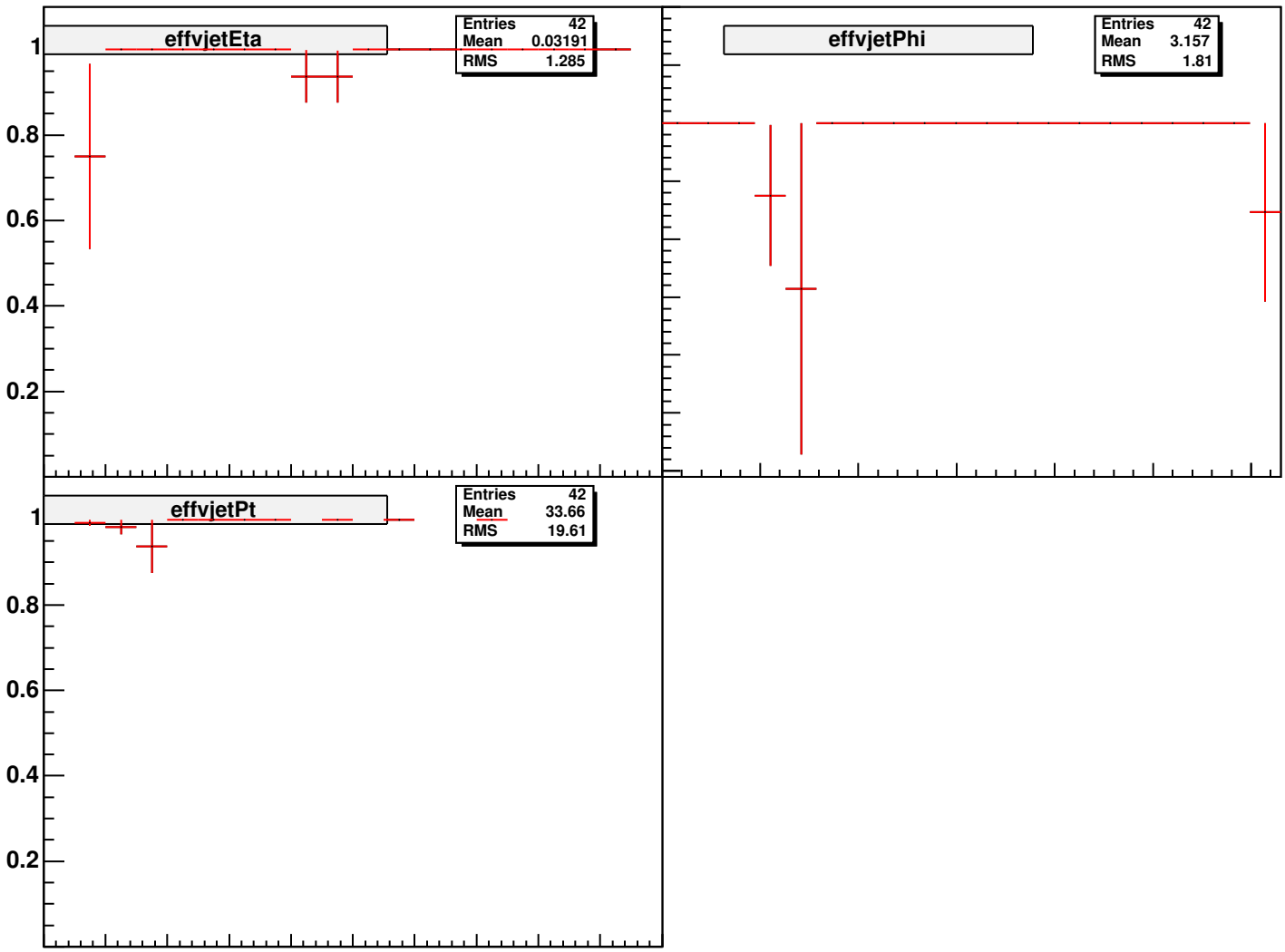

NTRKS
Entries 2433
Mean 60.97
RMS 43.59
Chisq prob
Entries 148341
Mean 0.2332
RMS 0.3076
log10(PT)
Entries 148341
Mean -0.1256
RMS 0.3667
PHI at DCA (0,0)
Entries 148341
Mean 3.169
RMS 1.845
TANLAM at DCA (0,0)
Entries 148341
Mean 1.066
RMS 32.09
Z at DCA (0,0)
Entries 148341
Mean -1.888
RMS 27.68
DCA (best vertex)
Entries 148341
Mean -2.534e+31
RMS 9.76e+33
|DCA| (best vertex)
Entries 148341
Mean 2.534e+31
RMS 9.76e+33
DCA pull (best vertex)
Entries 148266
Mean -5.968e+05
RMS 2.295e+08
80
70
60
50
40
30
20
10
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)**

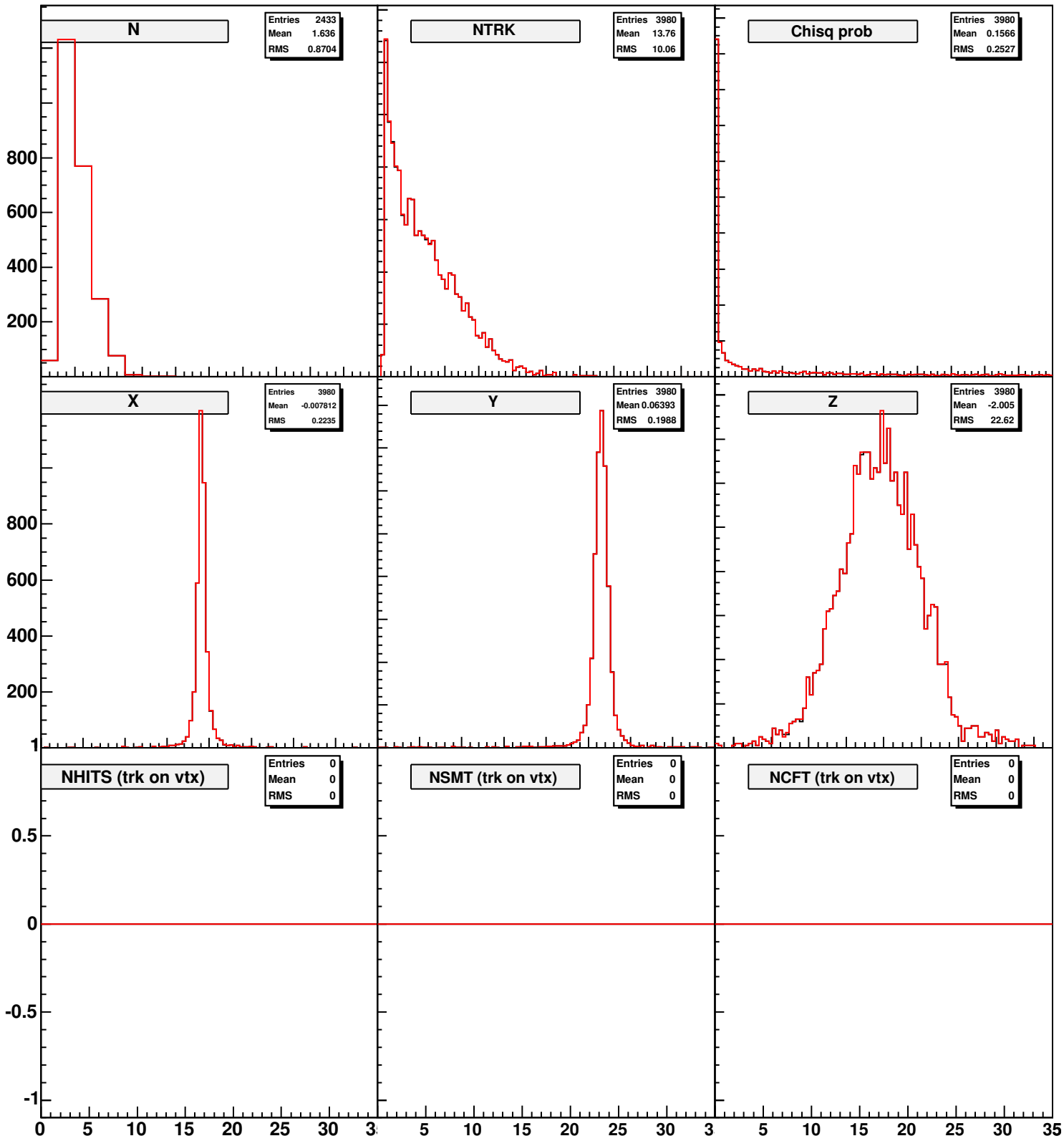

NCFT
Entries 148341
Mean 11.16
RMS 5.617
NSMT
Entries 148341
Mean 6.171
RMS 3.941
NSMT (barrels)
Entries 148341
Mean 4.528
RMS 3.192
NSMT (disks)
Entries 148341
Mean 1.643
RMS 2.9
NSMT (F disks)
Entries 148341
Mean 1.425
RMS 2.38
NSMT (H disks)
Entries 148341
Mean 0.2181
RMS 0.7814
Track Hits (All)



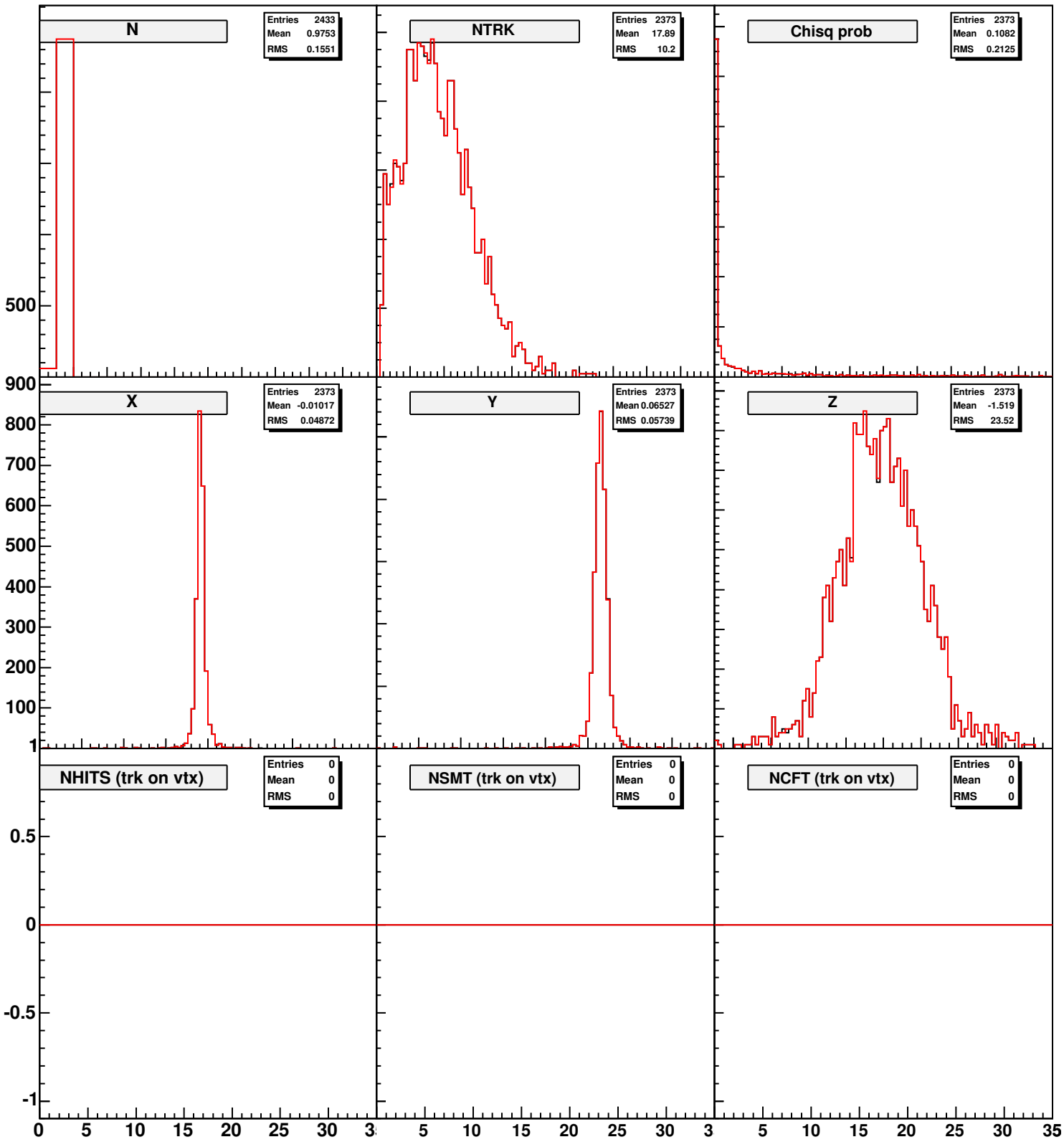

**Tracking (Efficiency-Isolated)**

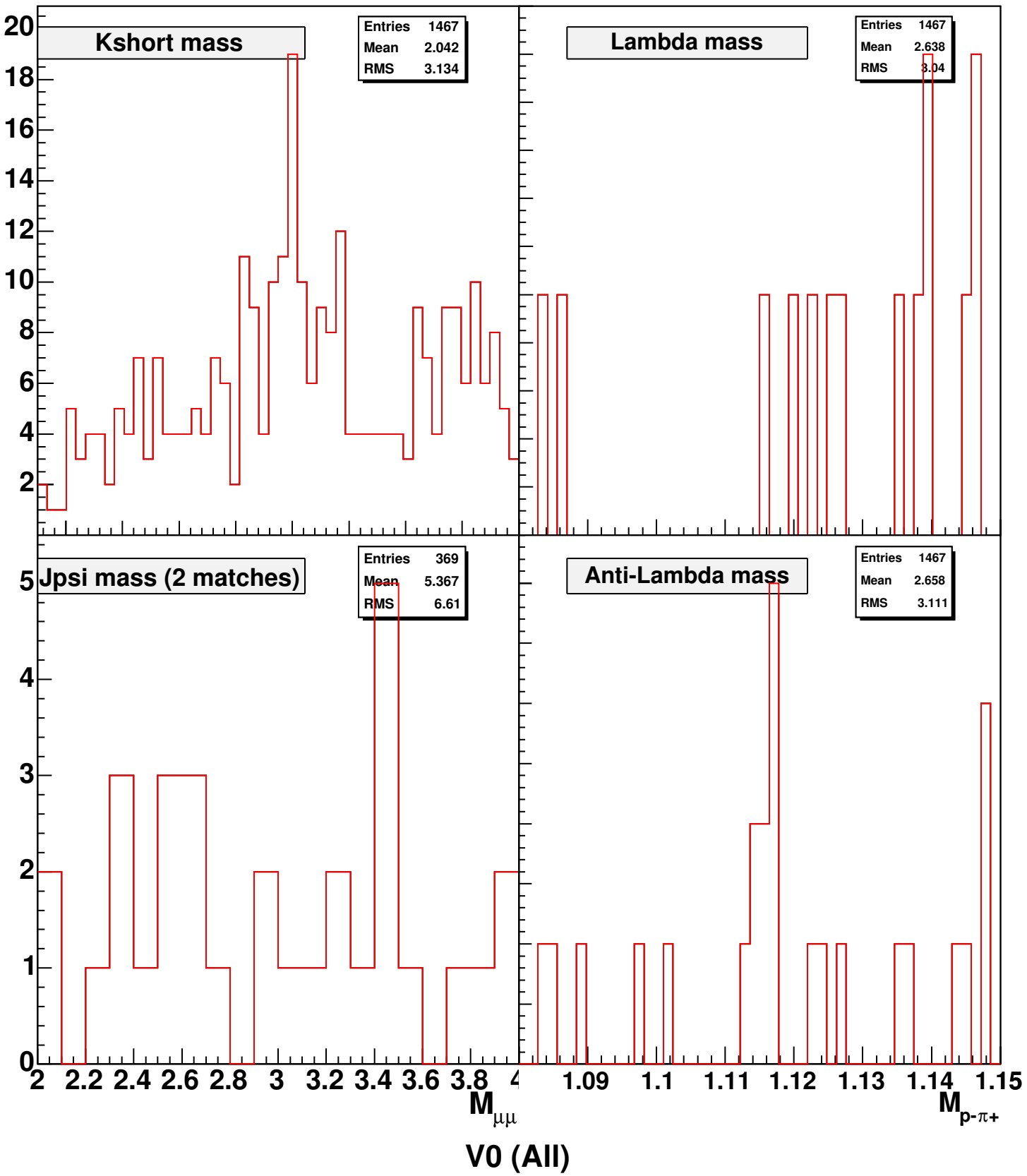


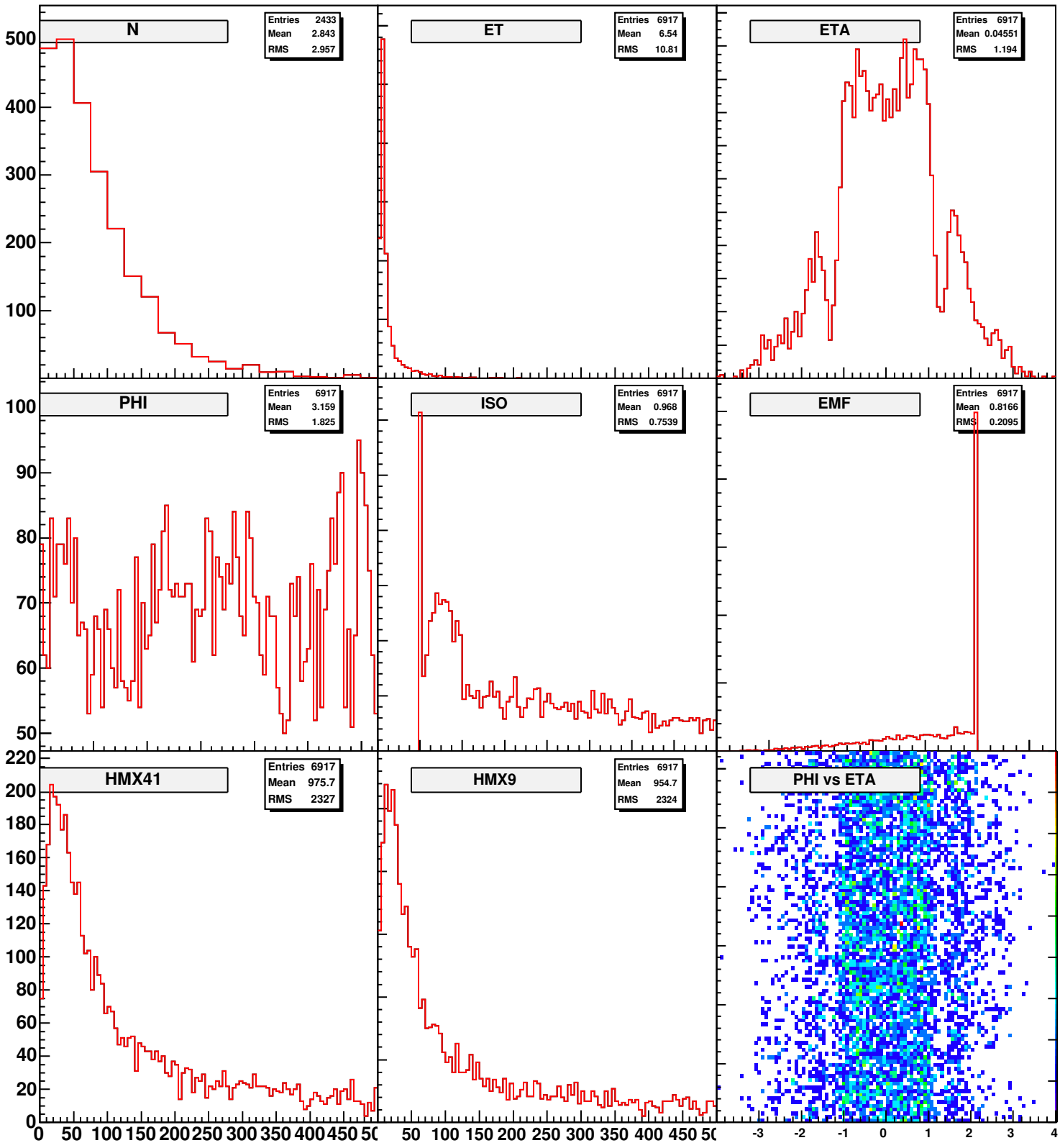

# Tracking (Efficiency-InJets)



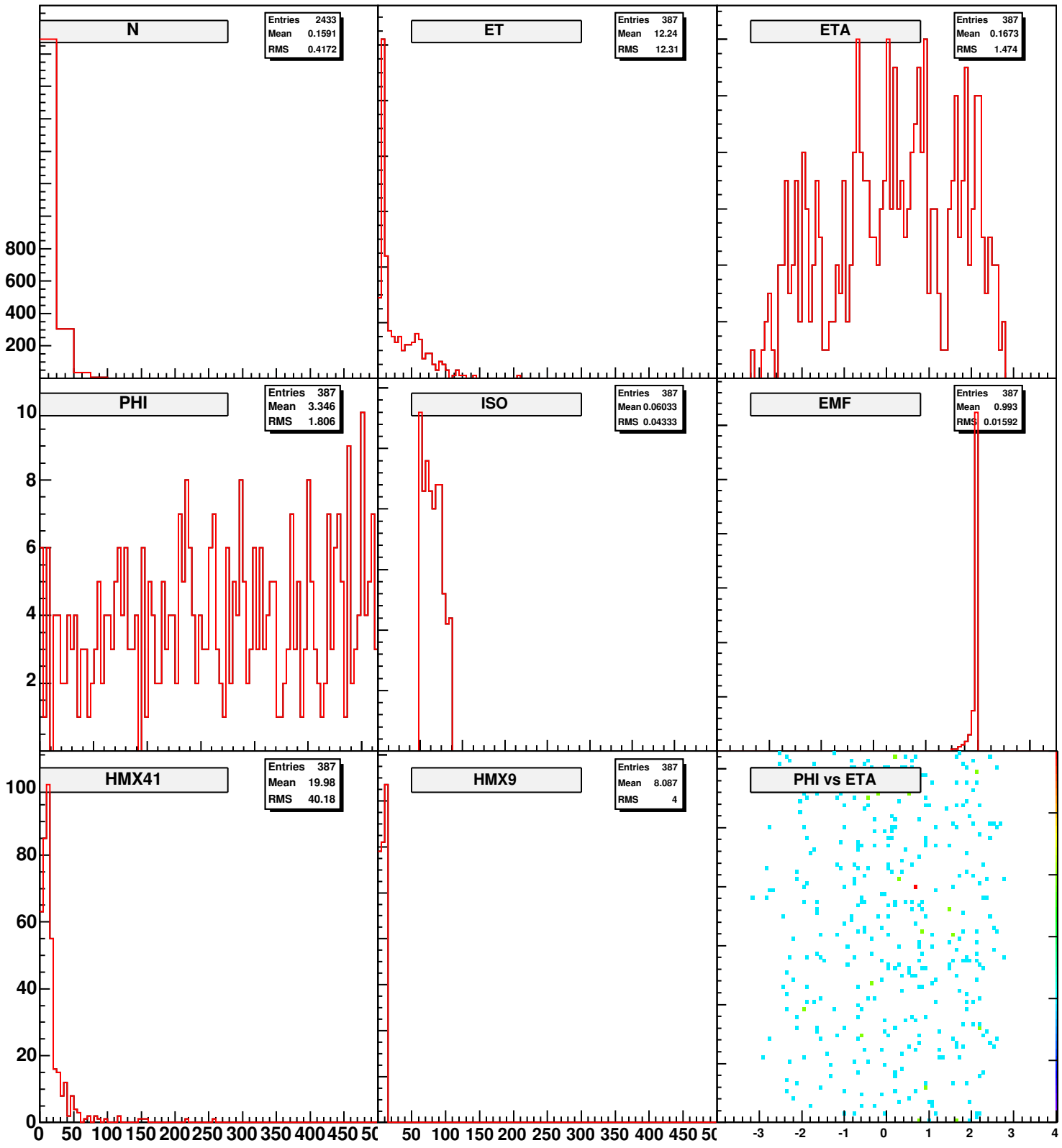

**Vertices (Primary - all candidates)**


N
Entries 2433
Mean 0.9753
RMS 0.1551
NTRK
Entries 2373
Mean 17.89
RMS 10.2
Chisq prob
Entries 2373
Mean 0.1082
RMS 0.2125
X
Entries 2373
Mean -0.01017
RMS 0.04872
Y
Entries 2373
Mean 0.06527
RMS 0.05739
Z
Entries 2373
Mean -1.519
RMS 23.52
NHITS (trk on vtx)
Entries 0
Mean 0
RMS 0
NSMT (trk on vtx)
Entries 0
Mean 0
RMS 0
NCFT (trk on vtx)
Entries 0
Mean 0
RMS 0
Vertices (Primary - best)

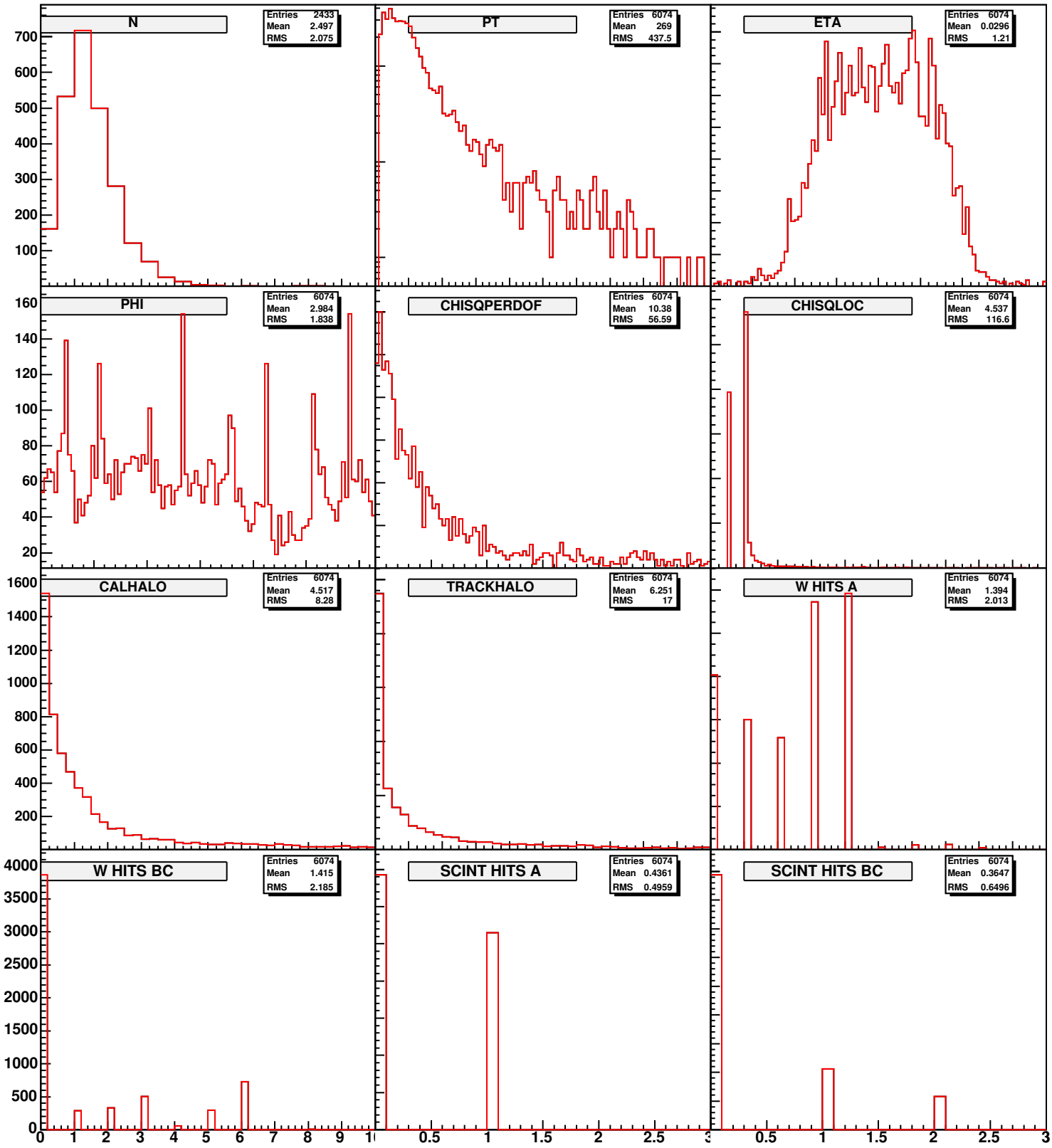

Kshort mass
Entries 1467
Mean 2.042
RMS 3.134
Lambda mass
Entries 1467
Mean 2.638
RMS 3.04
Jpsi mass (2 matches)
Entries 369
Mean 5.367
RMS 6.61
Anti-Lambda mass
Entries 1467
Mean 2.658
RMS 3.111
M_μμ
M_p-π+
V0 (All)



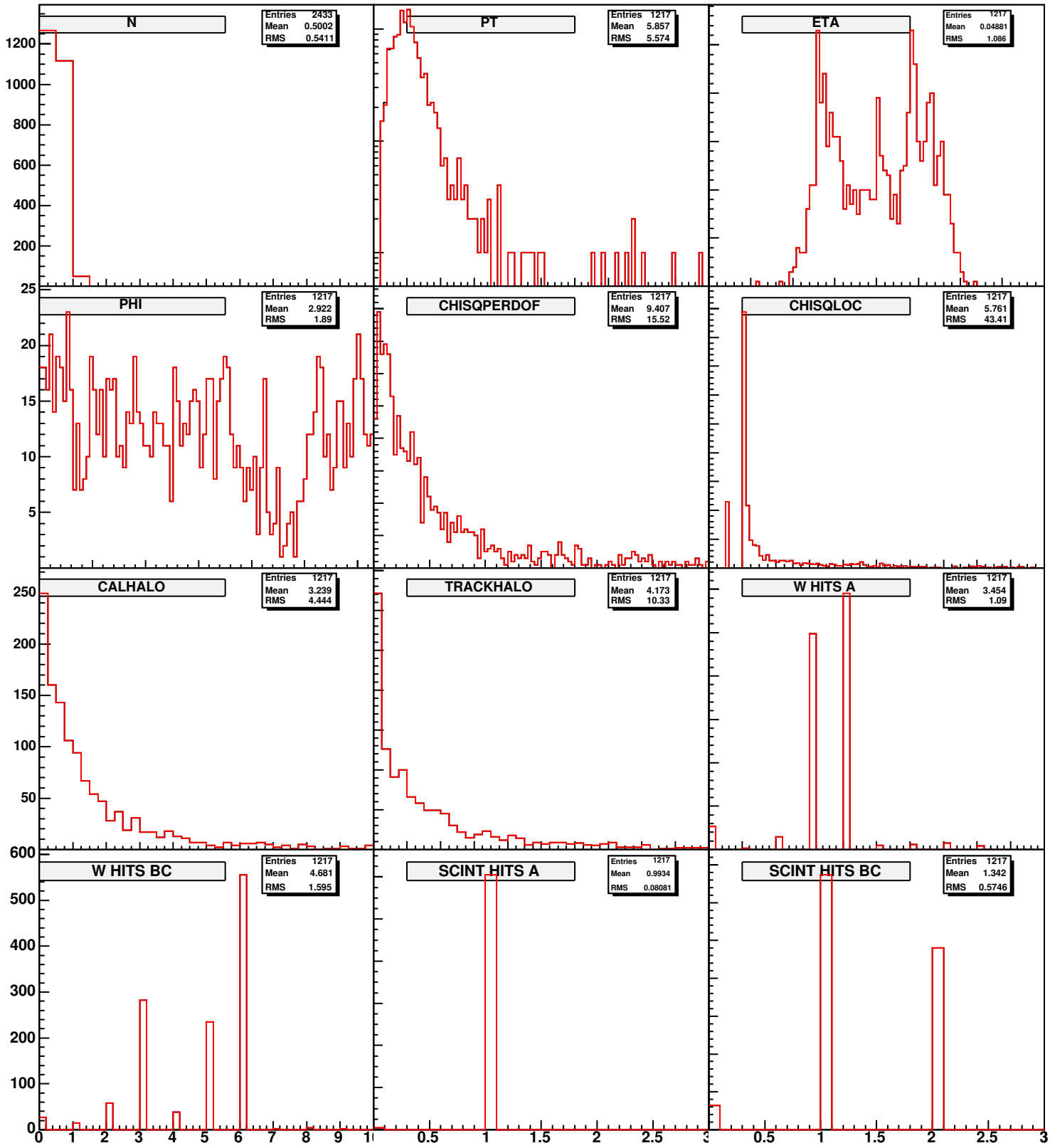

# Electrons (SCONE All)



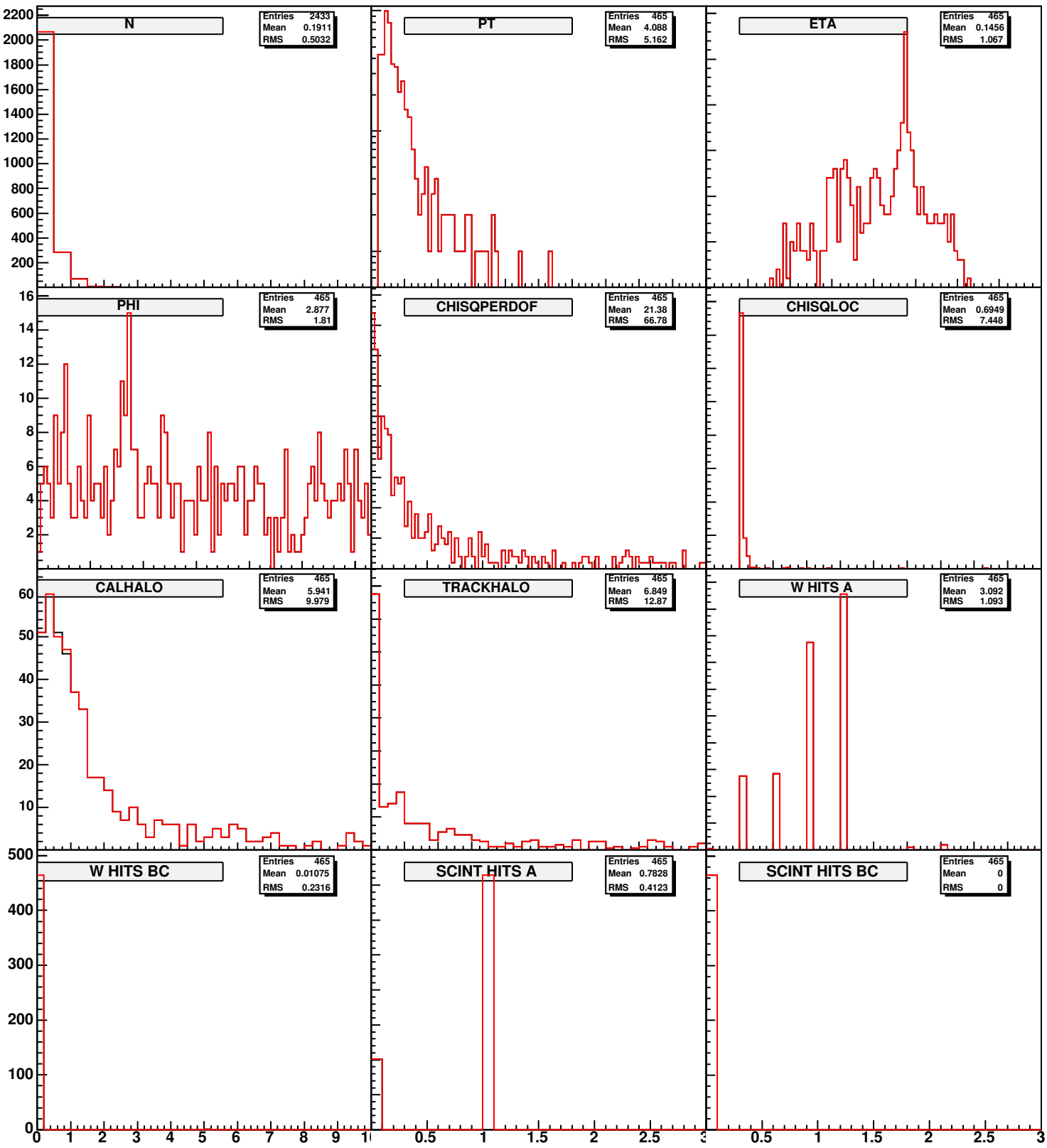

# Electrons (SCONE Tight)


N
Entries 2433
Mean 2.497
RMS 2.075
PT
Entries 6074
Mean 269
RMS 437.5
ETA
Entries 6074
Mean 0.0296
RMS 1.21
PHI
Entries 6074
Mean 2.984
RMS 1.838
CHISQPERDOF
Entries 6074
Mean 10.38
RMS 56.59
CHISQLOC
Entries 6074
Mean 4.537
RMS 116.6
CALHALO
Entries 6074
Mean 4.517
RMS 8.28
TRACKHALO
Entries 6074
Mean 6.251
RMS 17
W HITS A
Entries 6074
Mean 1.394
RMS 2.013
W HITS BC
Entries 6074
Mean 1.415
RMS 2.185
SCINT HITS A
Entries 6074
Mean 0.4361
RMS 0.4959
SCINT HITS BC
Entries 6074
Mean 0.3647
RMS 0.6496

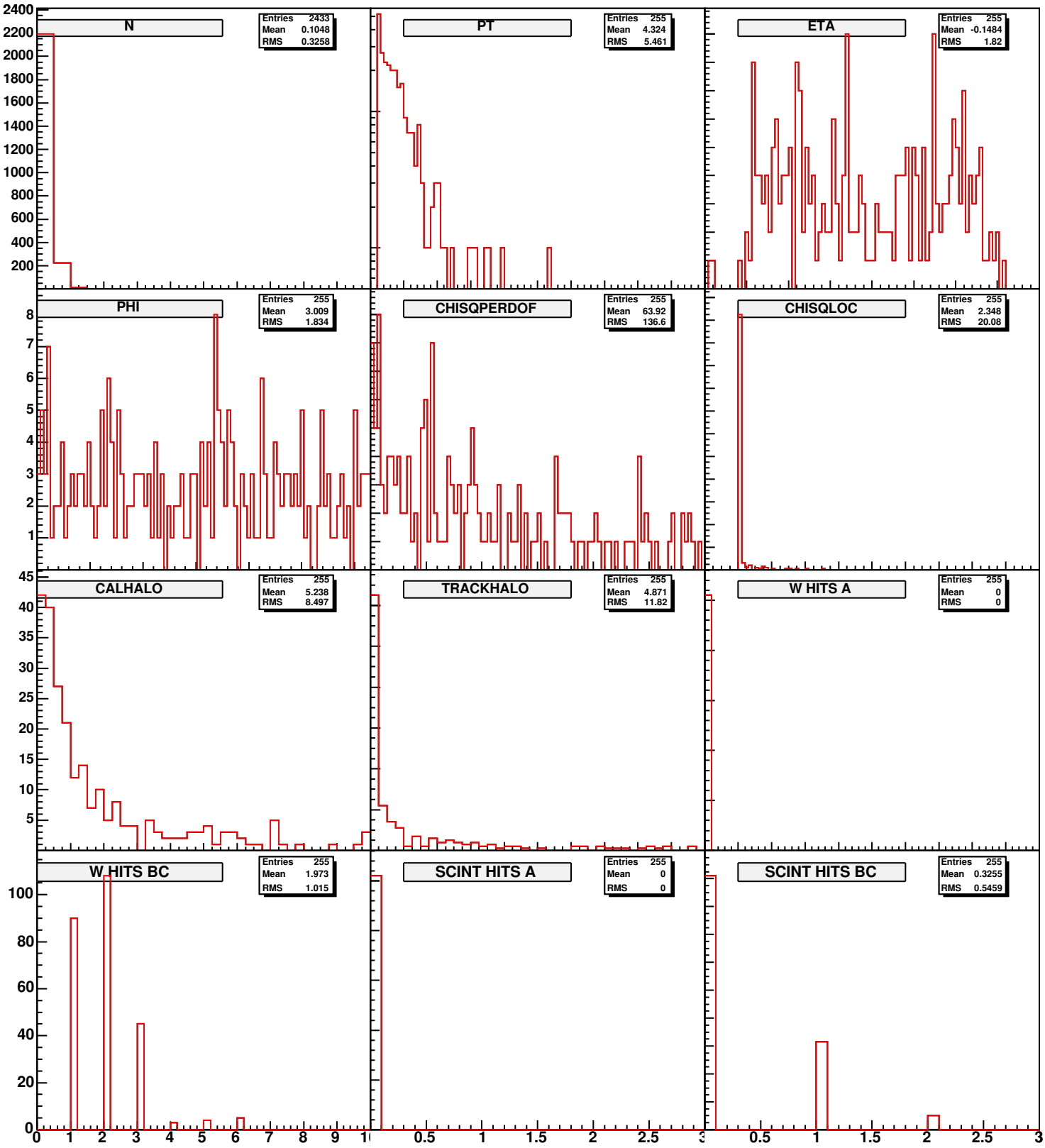
**Muons (All)**



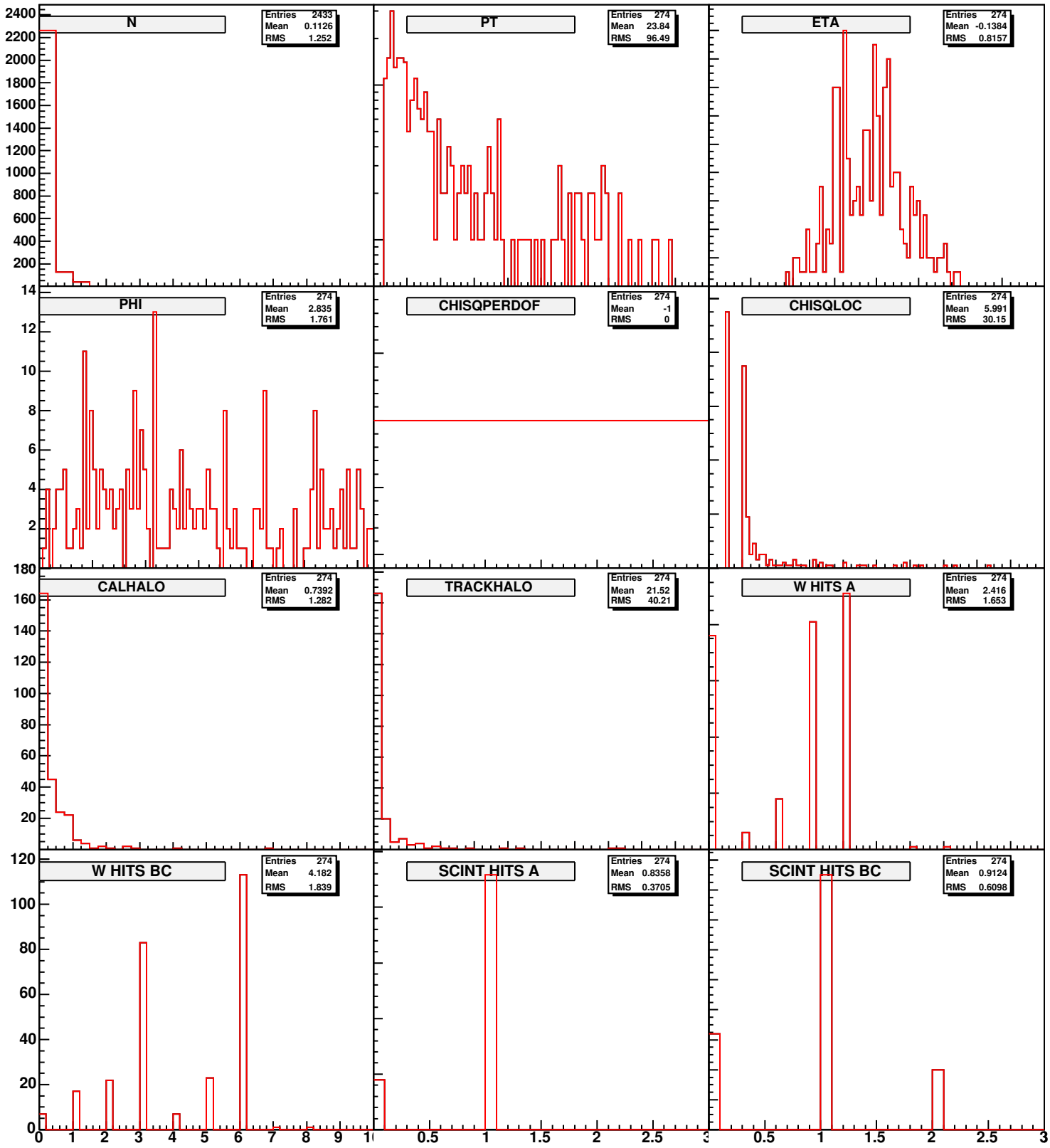

**Muons (Matched)**


N
Entries 2433
Mean 0.1911
RMS 0.5032
PT
Entries 465
Mean 4.088
RMS 5.162
ETA
Entries 465
Mean 0.1456
RMS 1.067
PHI
Entries 465
Mean 2.877
RMS 1.81
CHISQPERDOF
Entries 465
Mean 21.38
RMS 66.78
CHISQLOC
Entries 465
Mean 0.6949
RMS 7.448
CALHALO
Entries 465
Mean 5.941
RMS 9.979
TRACKHALO
Entries 465
Mean 6.849
RMS 12.87
W HITS A
Entries 465
Mean 3.092
RMS 1.093
W HITS BC
Entries 465
Mean 0.01075
RMS 0.2316
SCINT HITS A
Entries 465
Mean 0.7828
RMS 0.4123
SCINT HITS BC
Entries 465
Mean 0
RMS 0

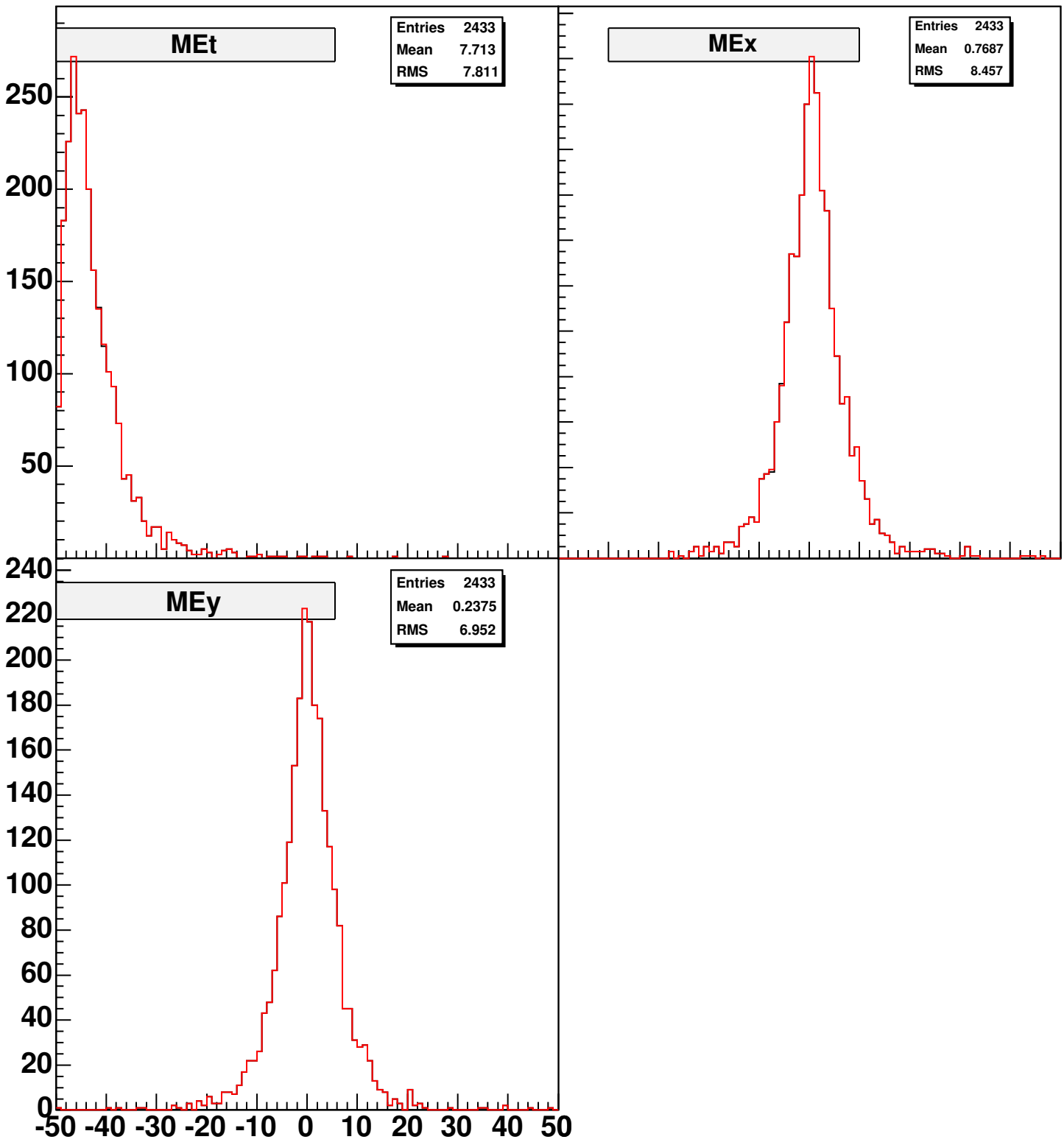
# Muons (Astub)

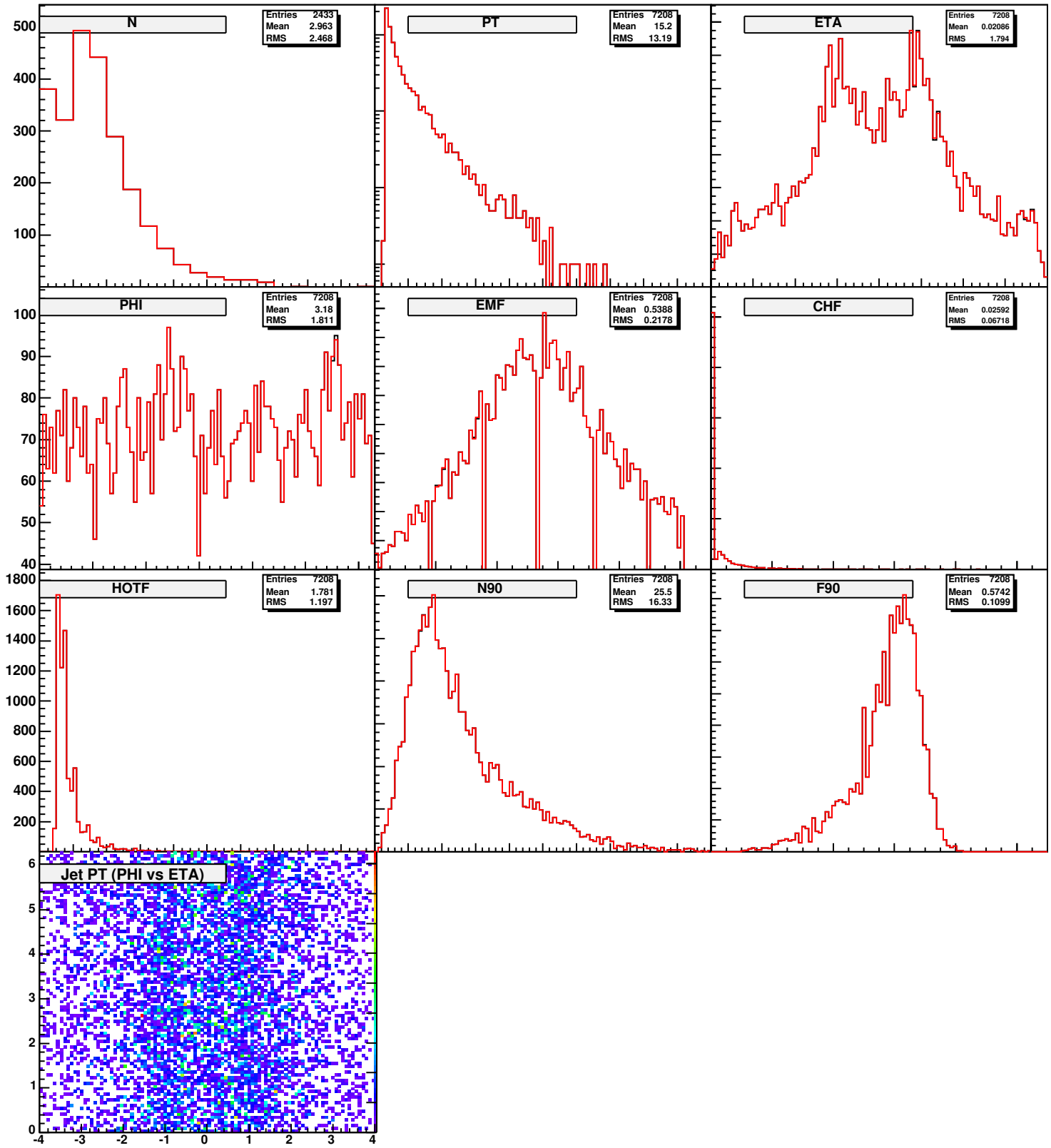



# Muons (BCstub)

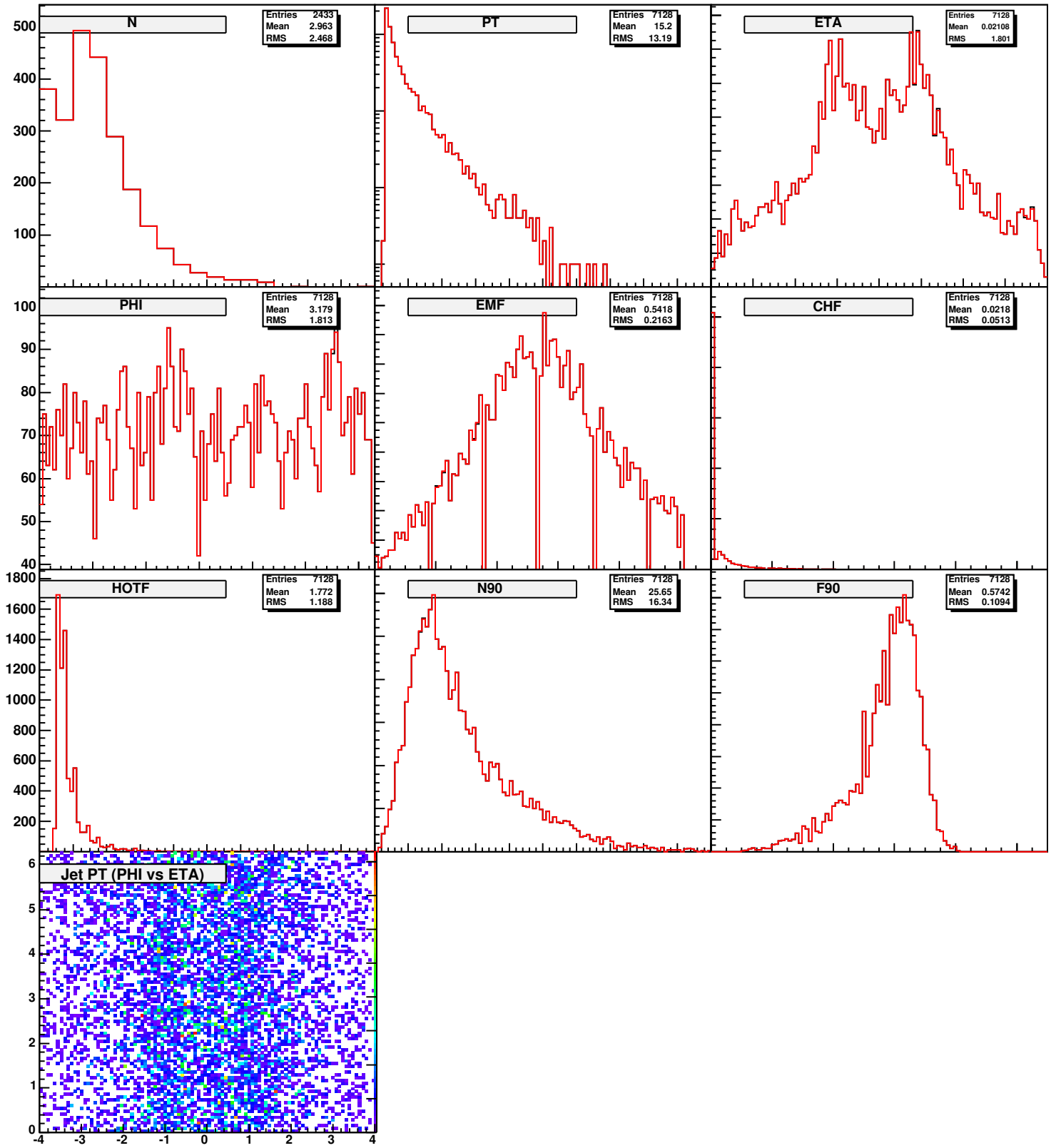



# Muons (Unmatched)

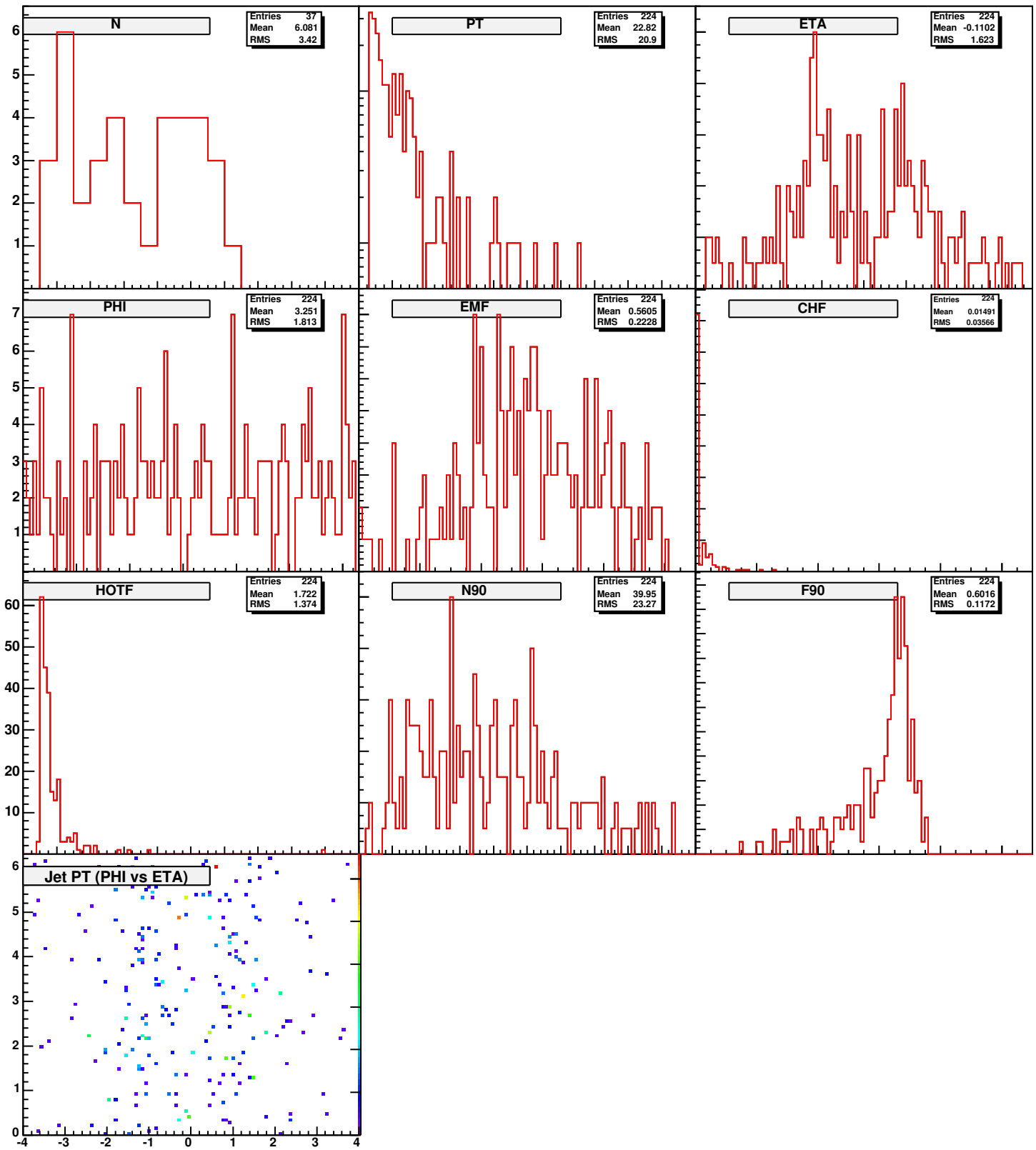

MEt
Entries 2433
Mean 7.713
RMS 7.811
MEx
Entries 2433
Mean 0.7687
RMS 8.457
MEy
Entries 2433
Mean 0.2375
RMS 6.952
250
200
150
100
50
240
220
200
180
160
140
120
100
80
60
40
20
0
-50 -40 -30 -20 -10 0 10 20 30 40 50
Met (No cuts)



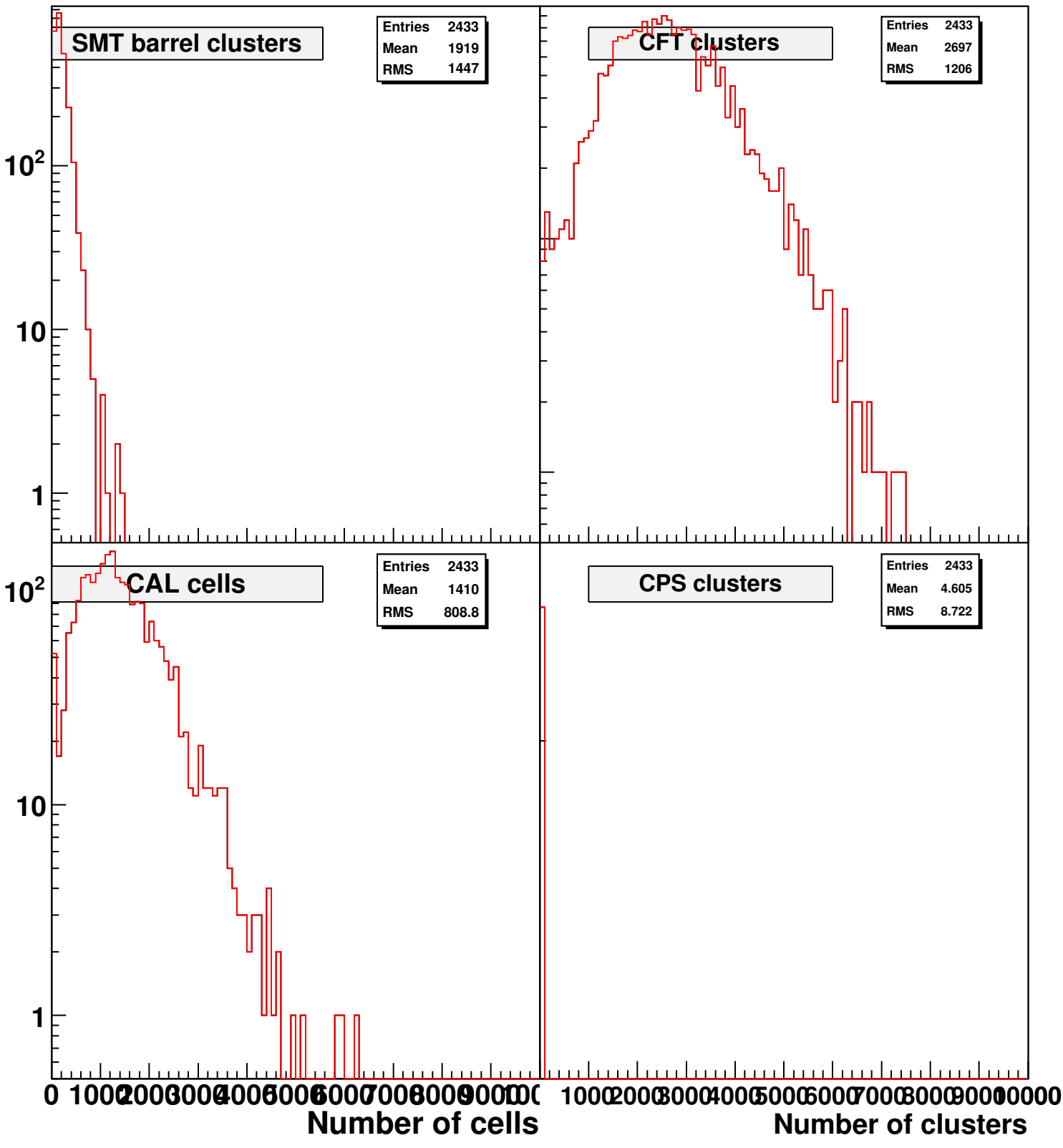

# Jets (Cone R 0.7 (no cuts))

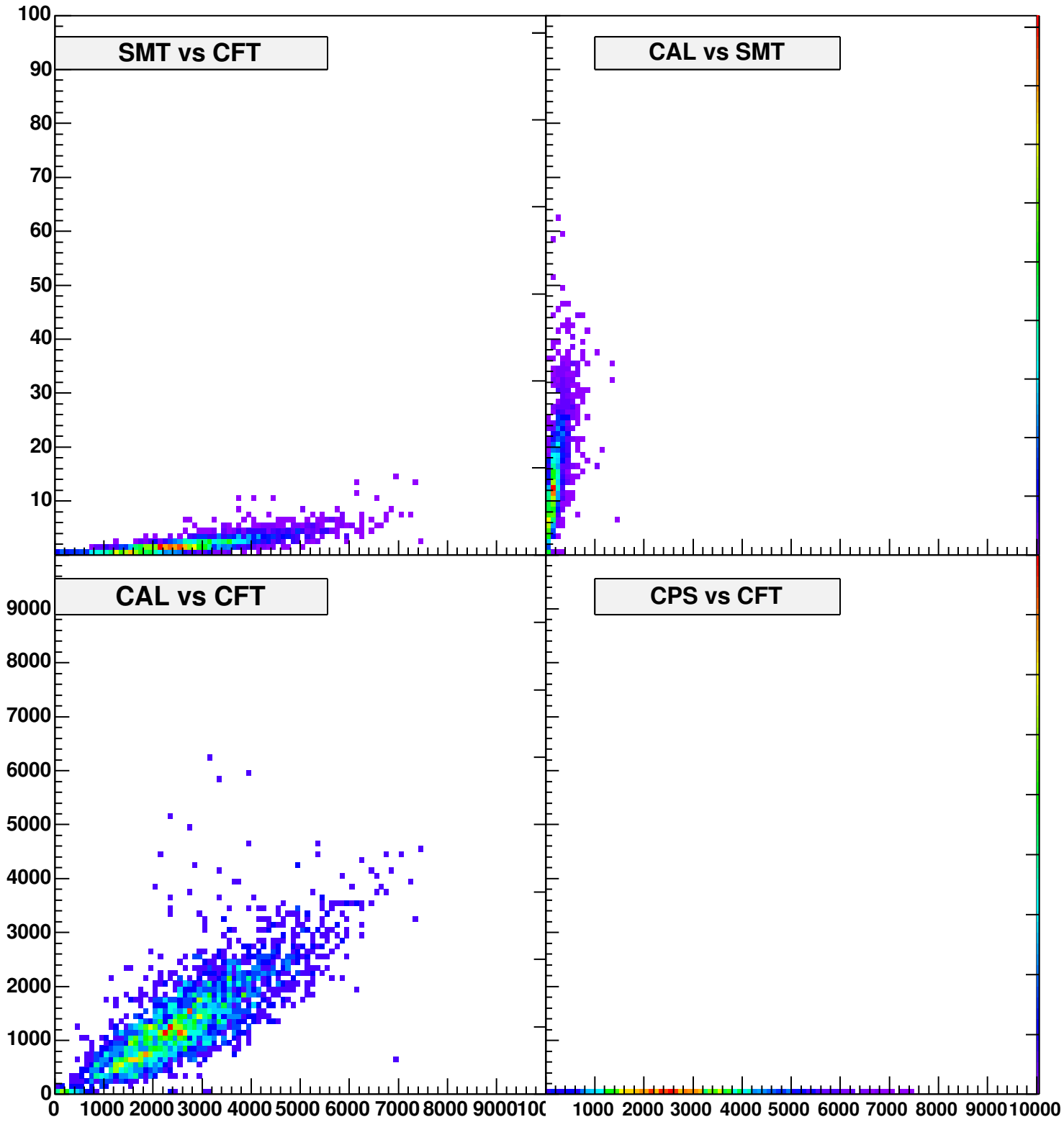


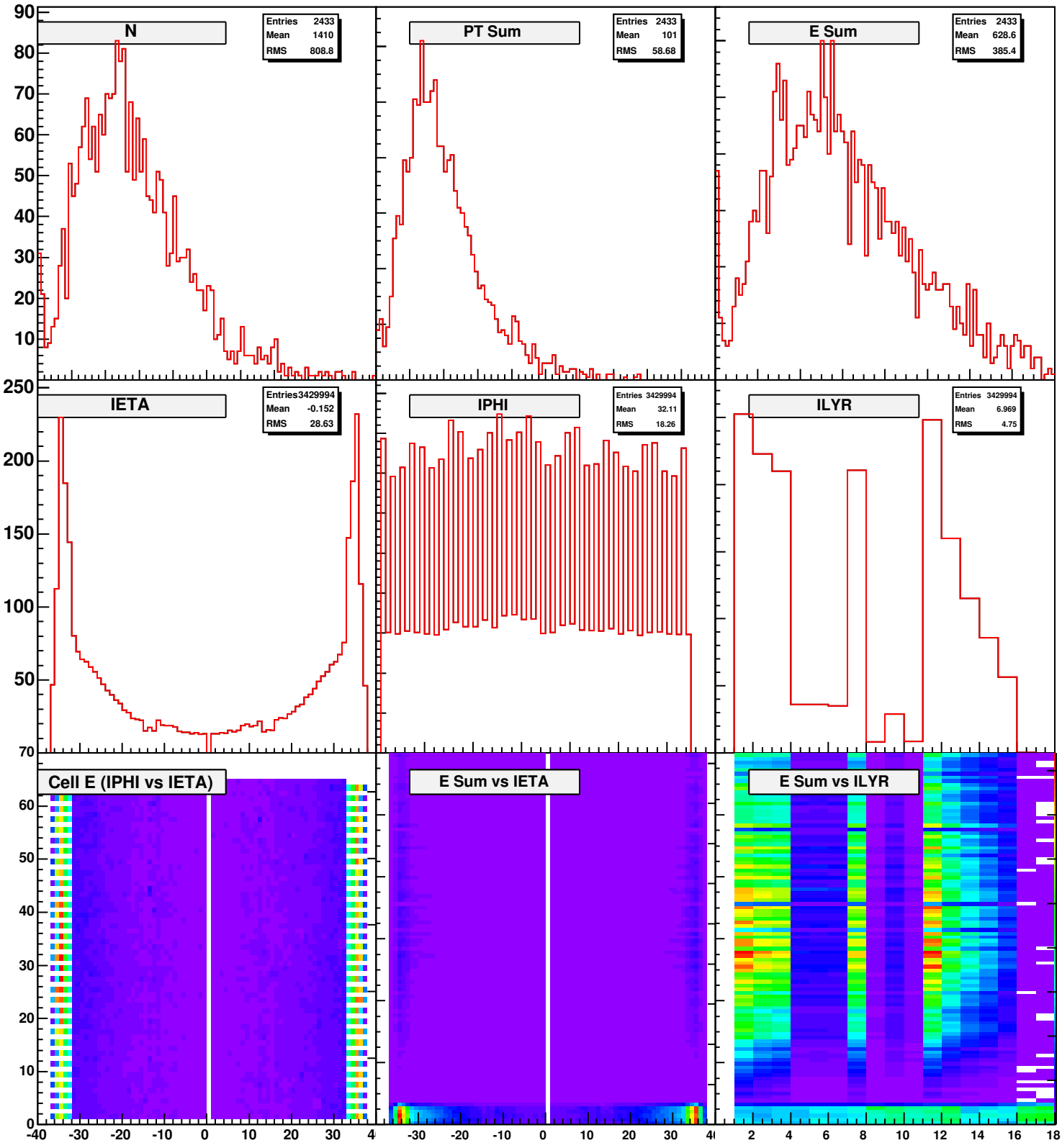

# Jets (Cone R 0.7 (standard cuts))



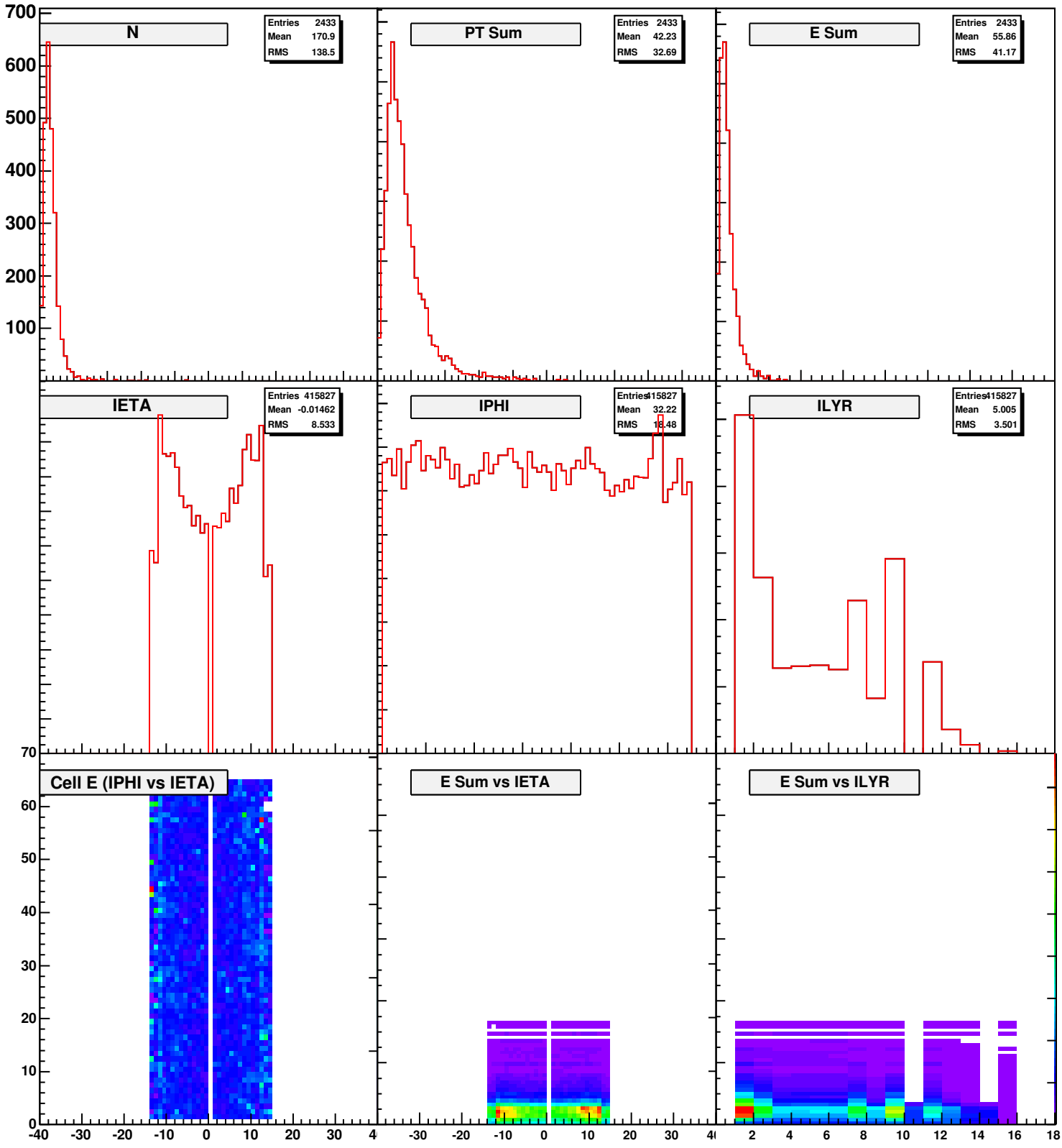

**Jets (Cone R 0.7 (standard cuts, MET>30))**


SMT barrel clusters
Entries 2433
Mean 1919
RMS 1447
CFT clusters
Entries 2433
Mean 2697
RMS 1206
CAL cells
Entries 2433
Mean 1410
RMS 808.8
CPS clusters
Entries 2433
Mean 4.605
RMS 8.722
10²
10
1
Number of cells
Number of clusters
Detector Occupancy (Detector)

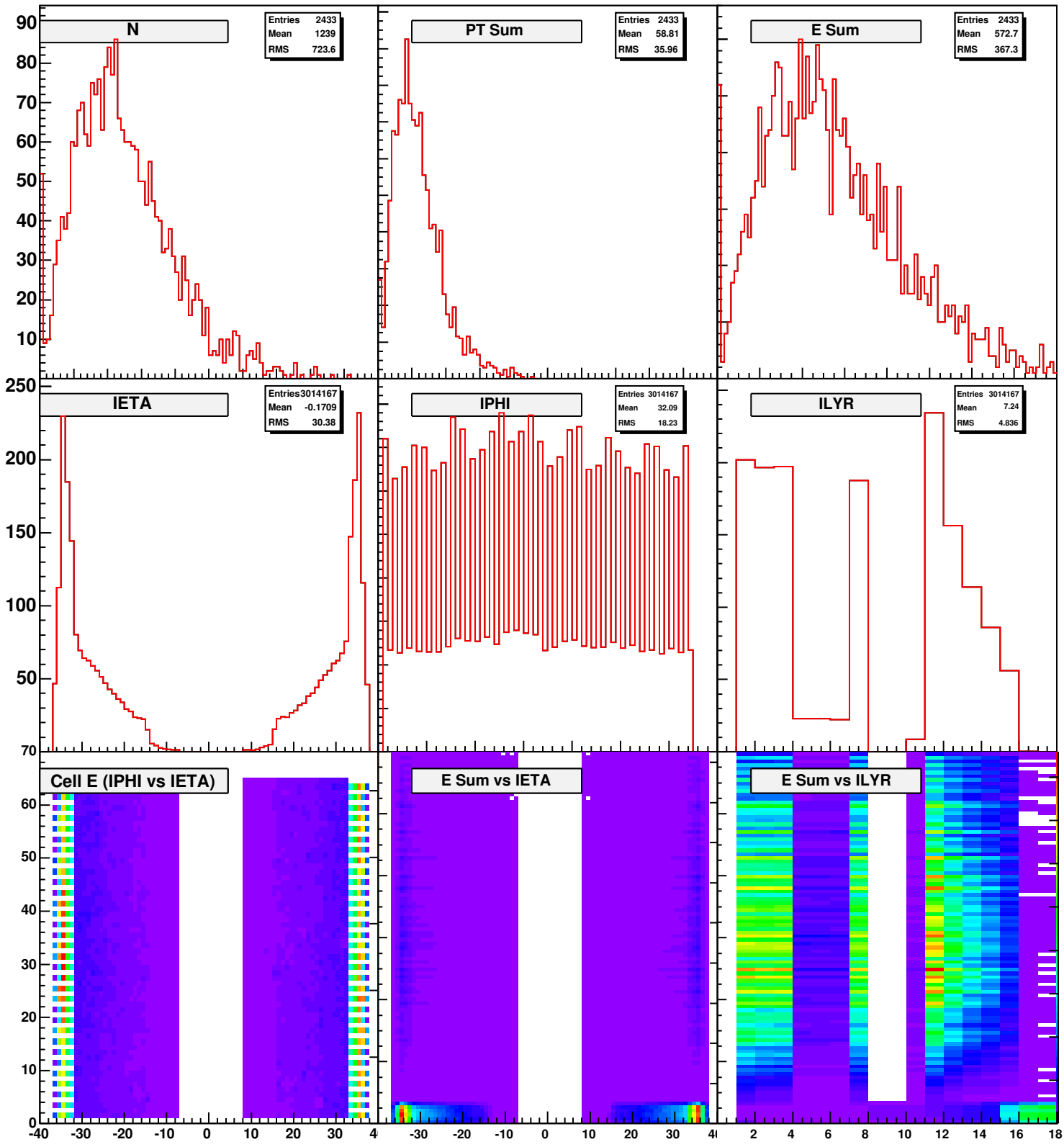

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
100
90
80
70
60
50
40
30
20
10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Detector Occupancy (Detector)



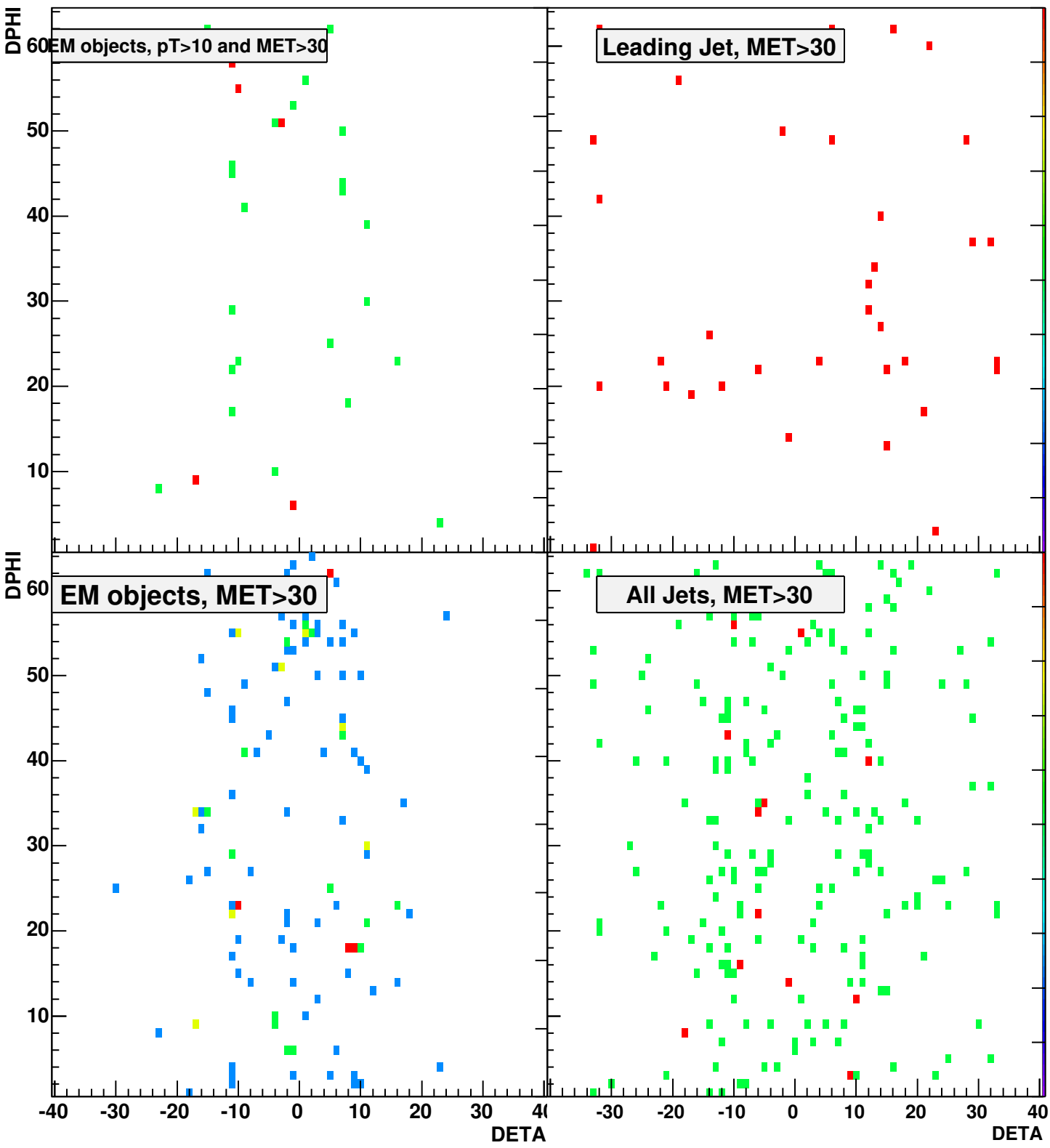

# Calorimeter (All cells)



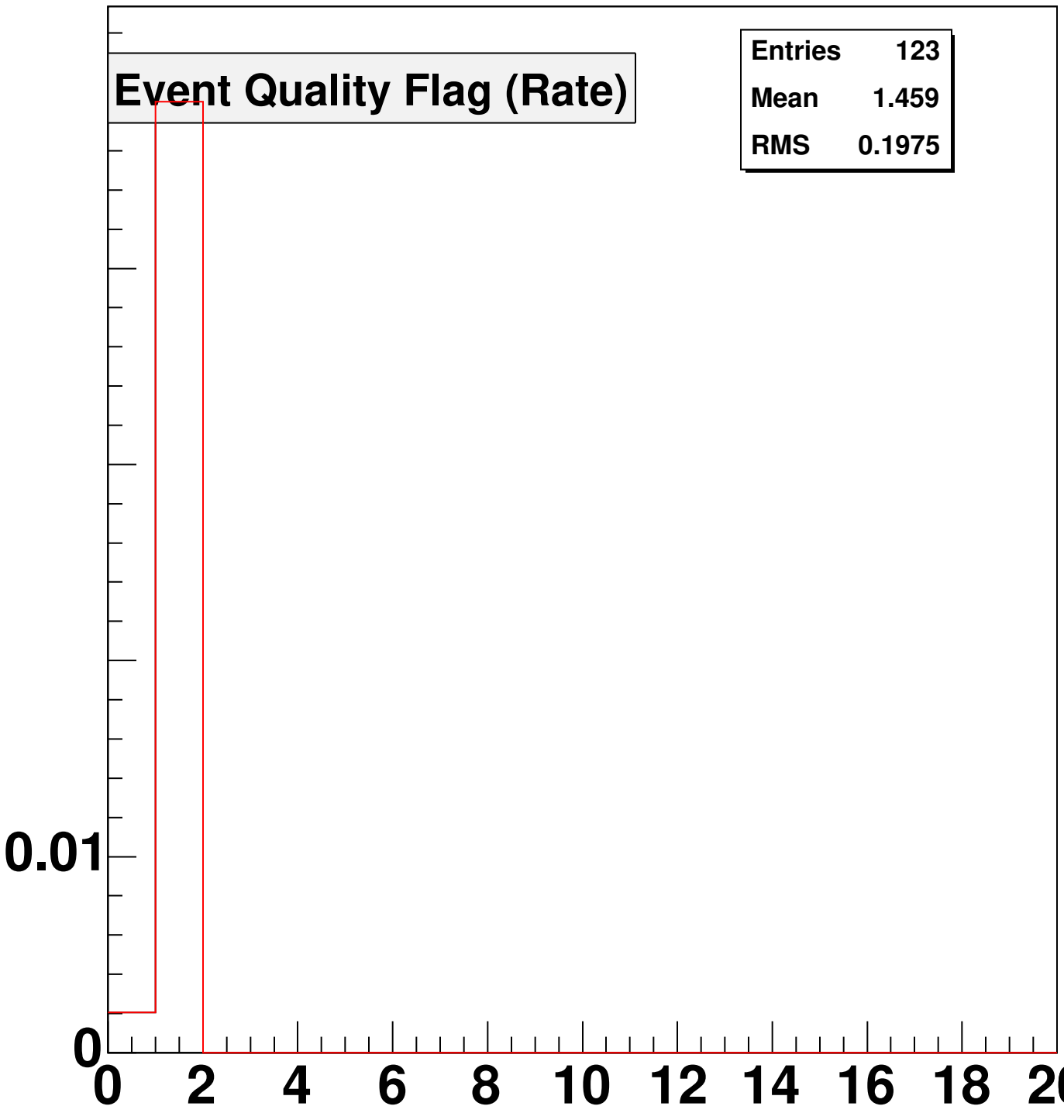

# Calorimeter (All CC cells)

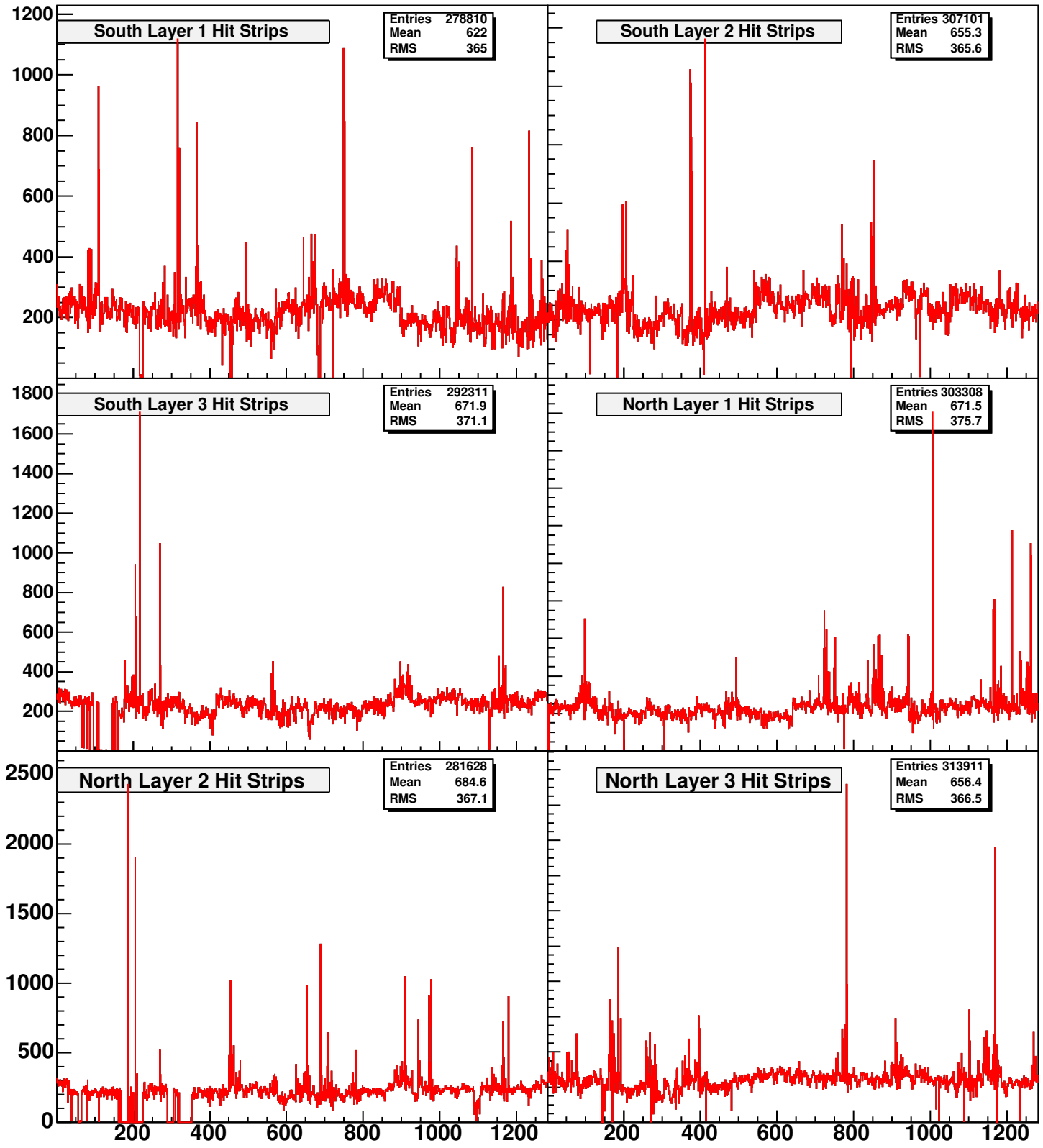



# Calorimeter (All EC cells)

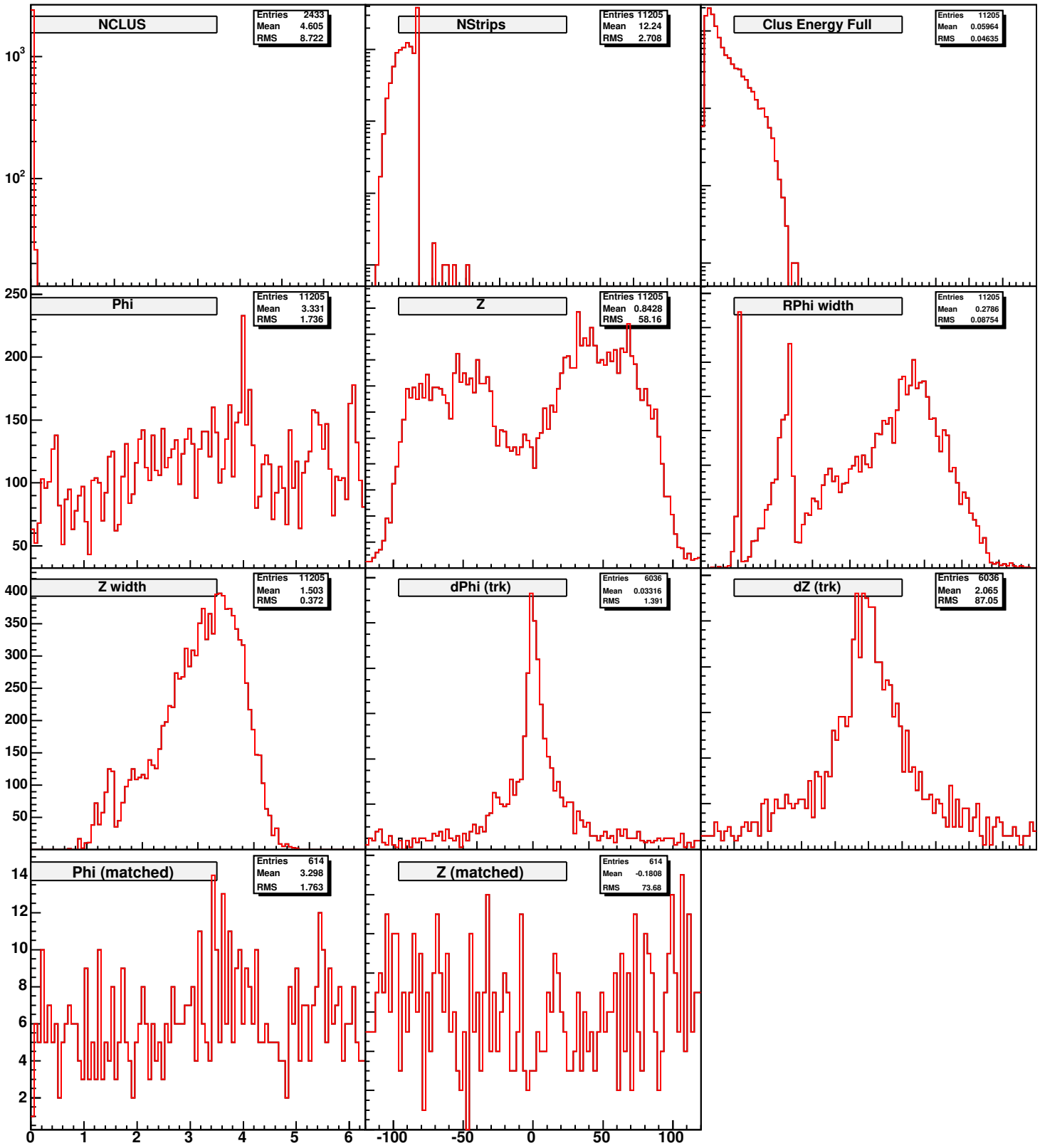



Cal Objects with MET>30 (All cells)

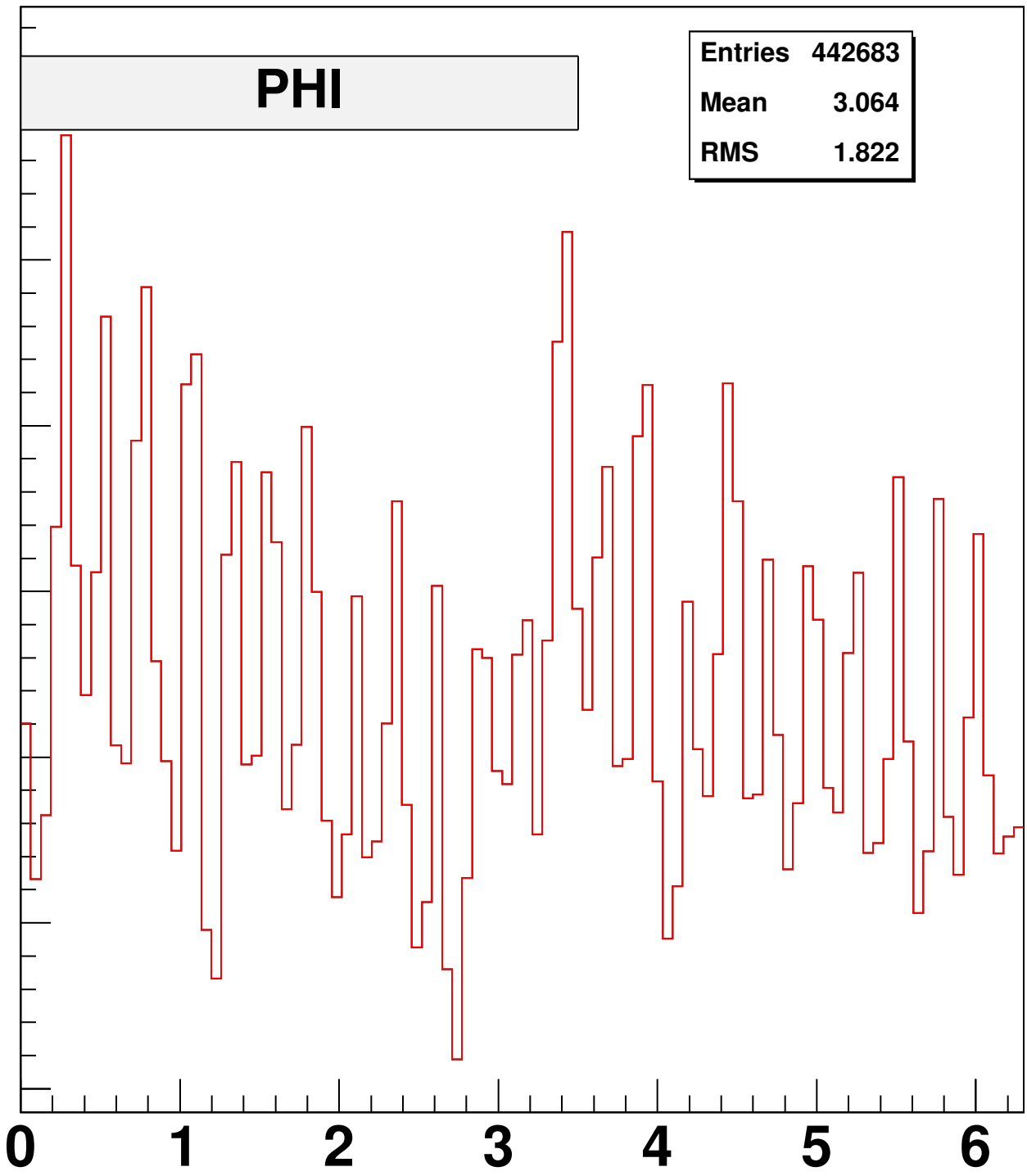

Event Quality Flag (Rate)
Entries 123
Mean 1.459
RMS 0.1975
0.01
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

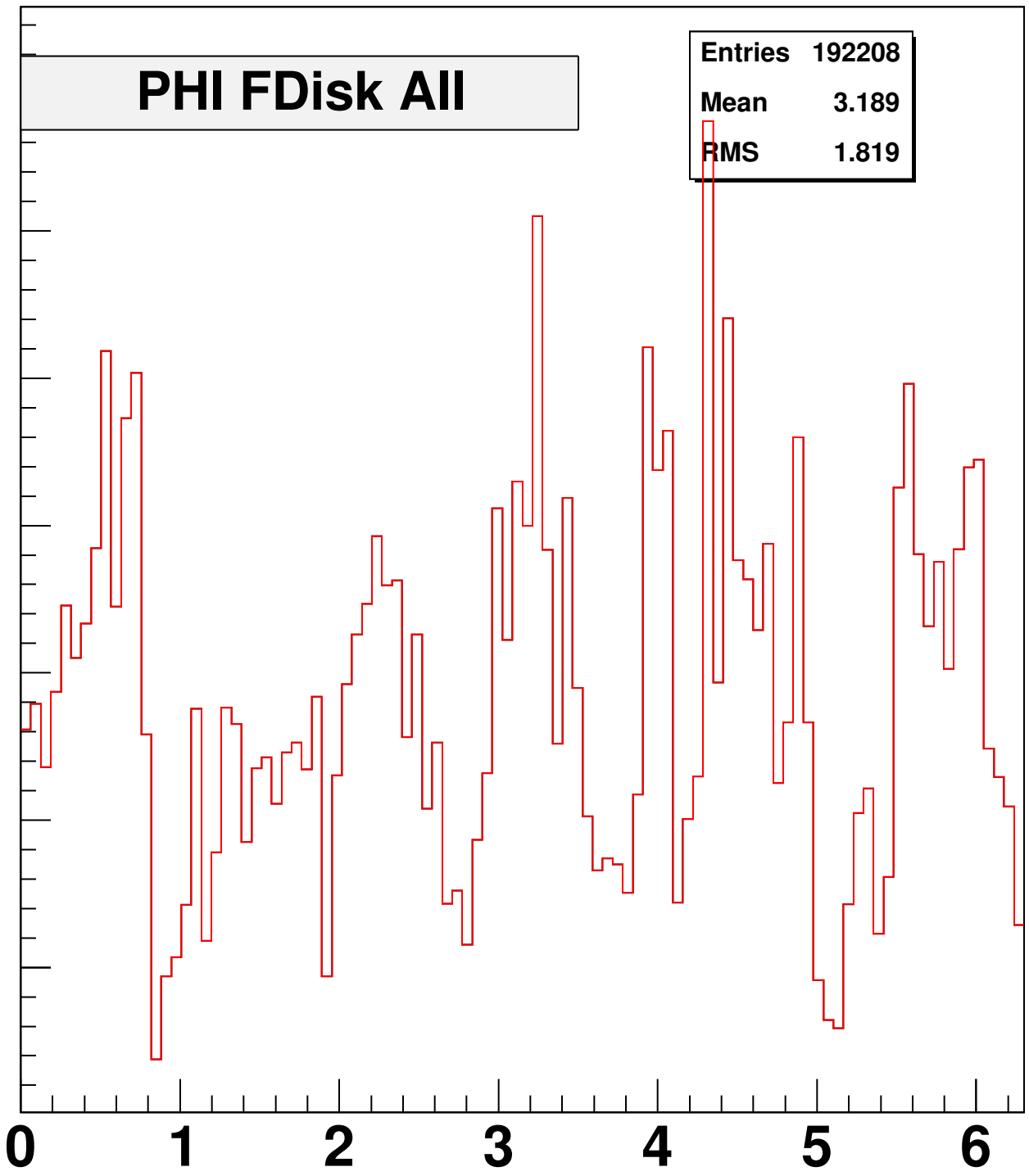


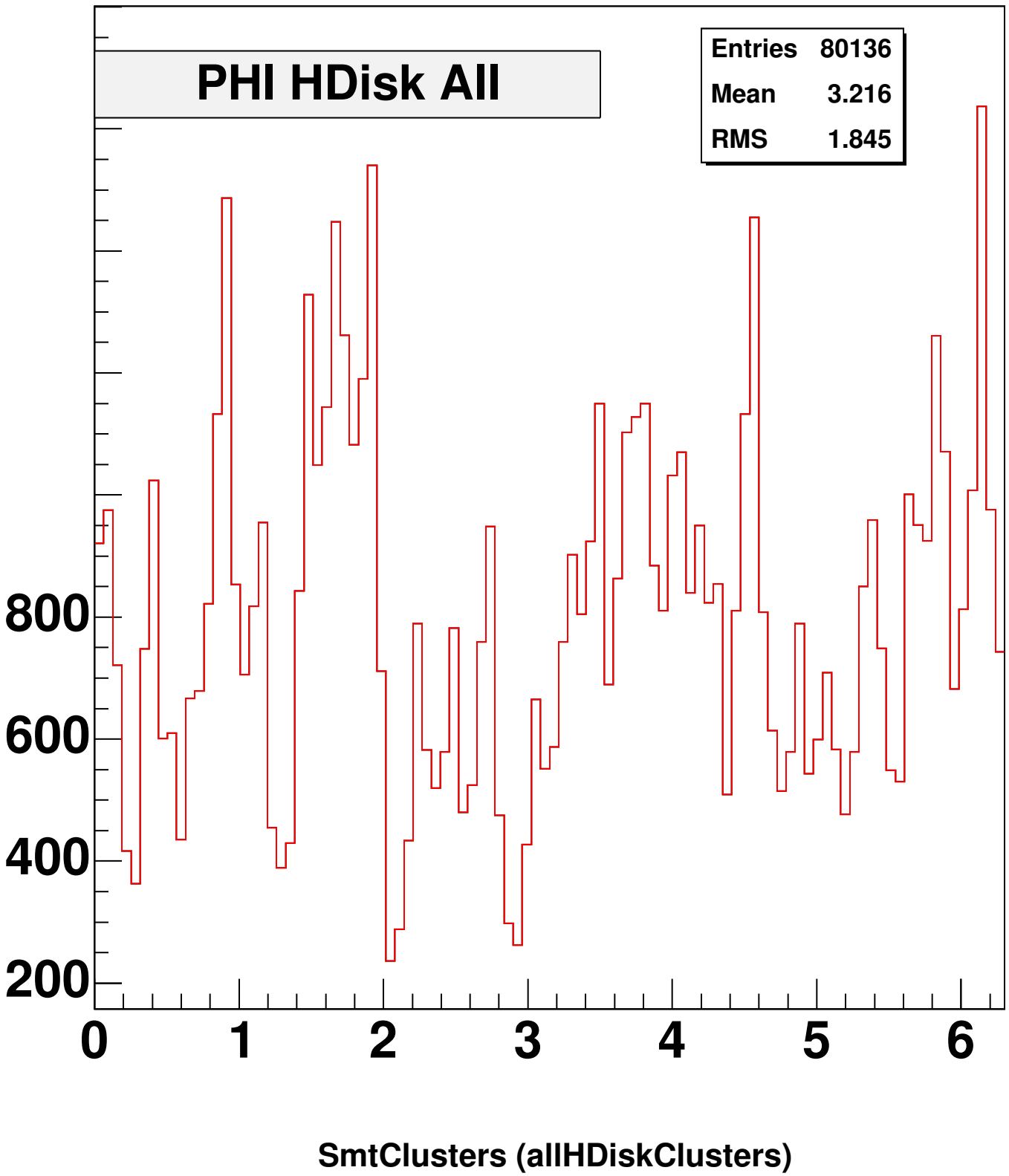

CPS Hit Strips (All Clusters)

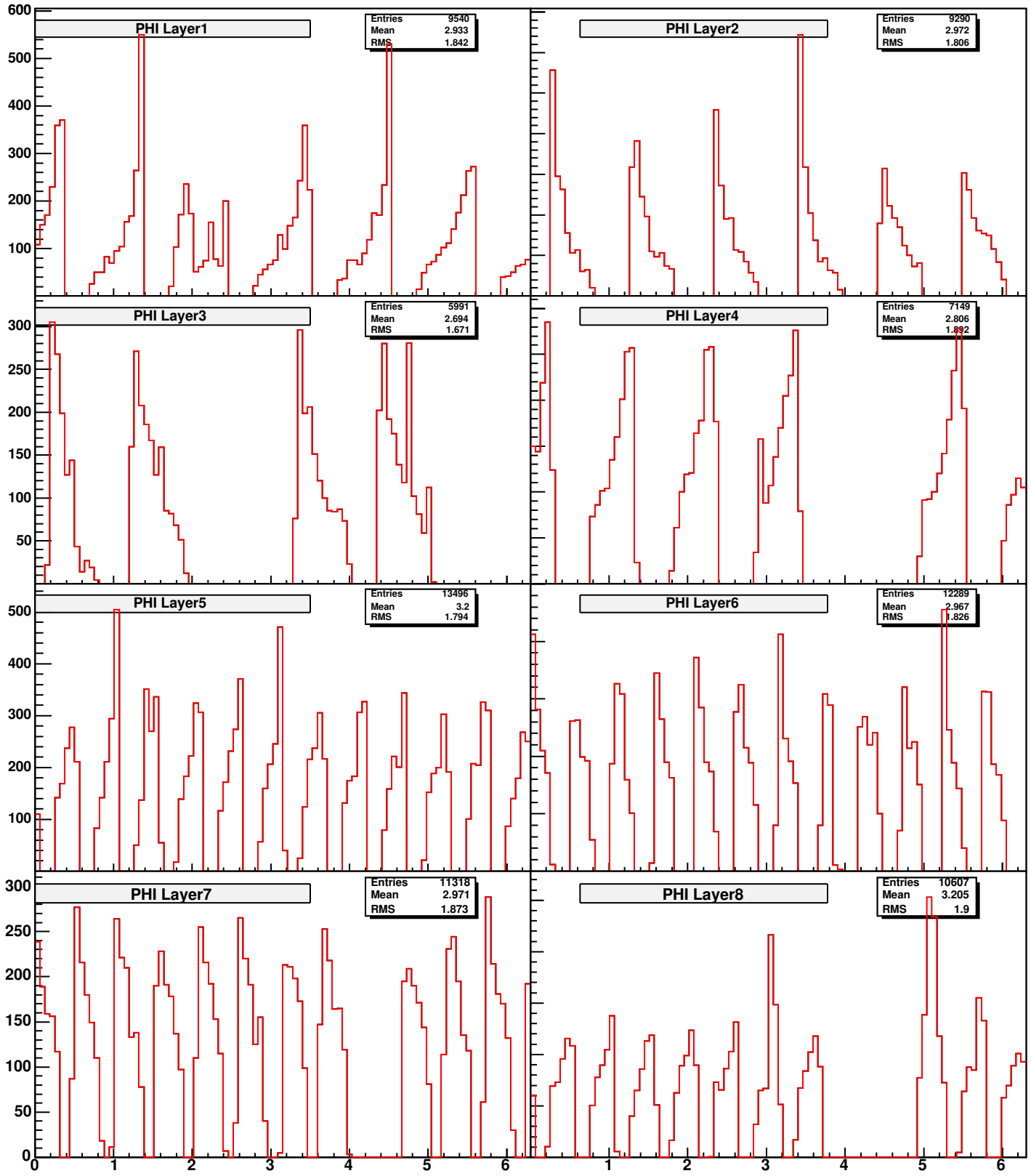



**CPS Clusters (All Clusters)**

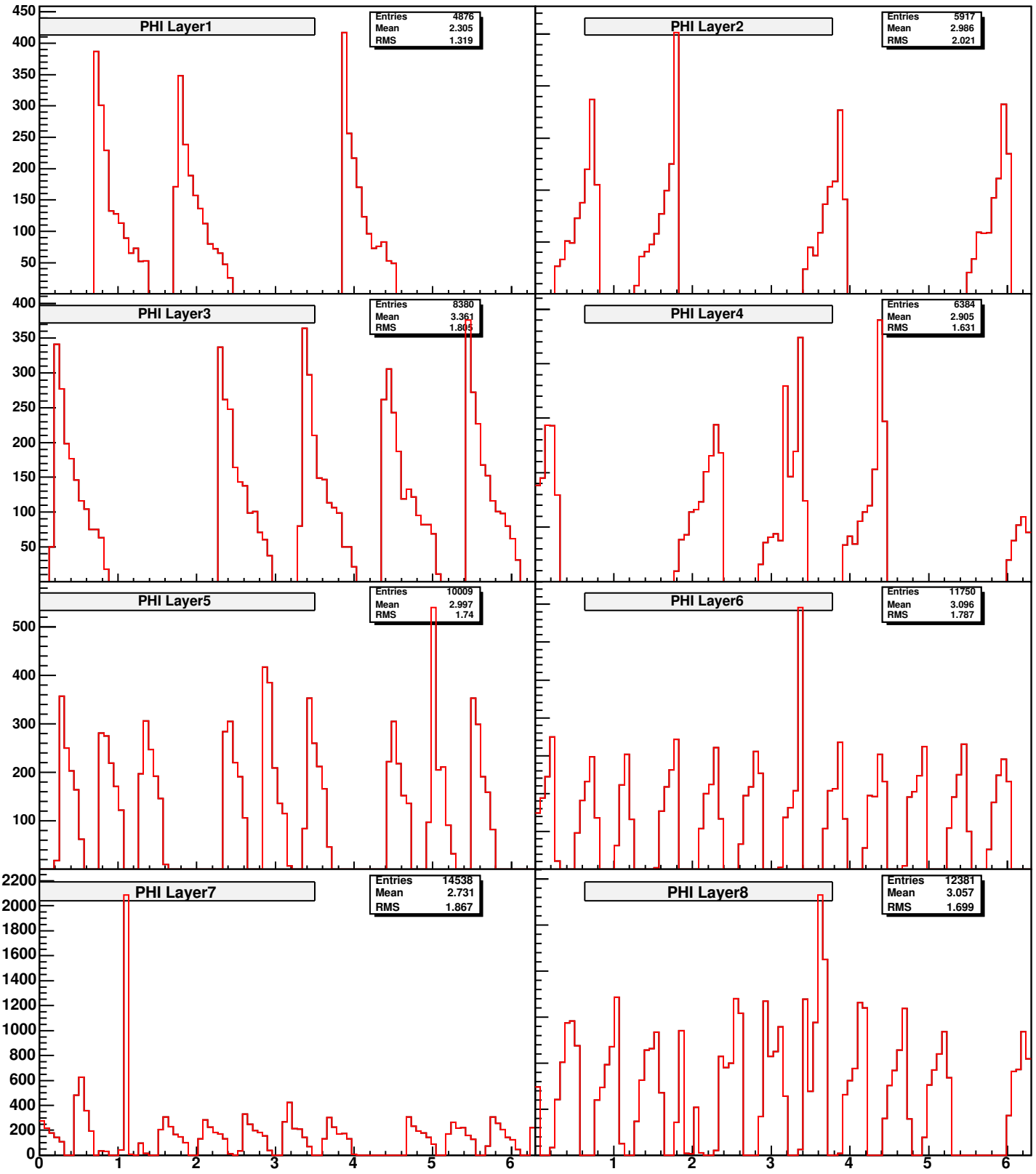

PHI
Entries 442683
Mean 3.064
RMS 1.822
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 192208
Mean 3.189
RMS 1.819
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

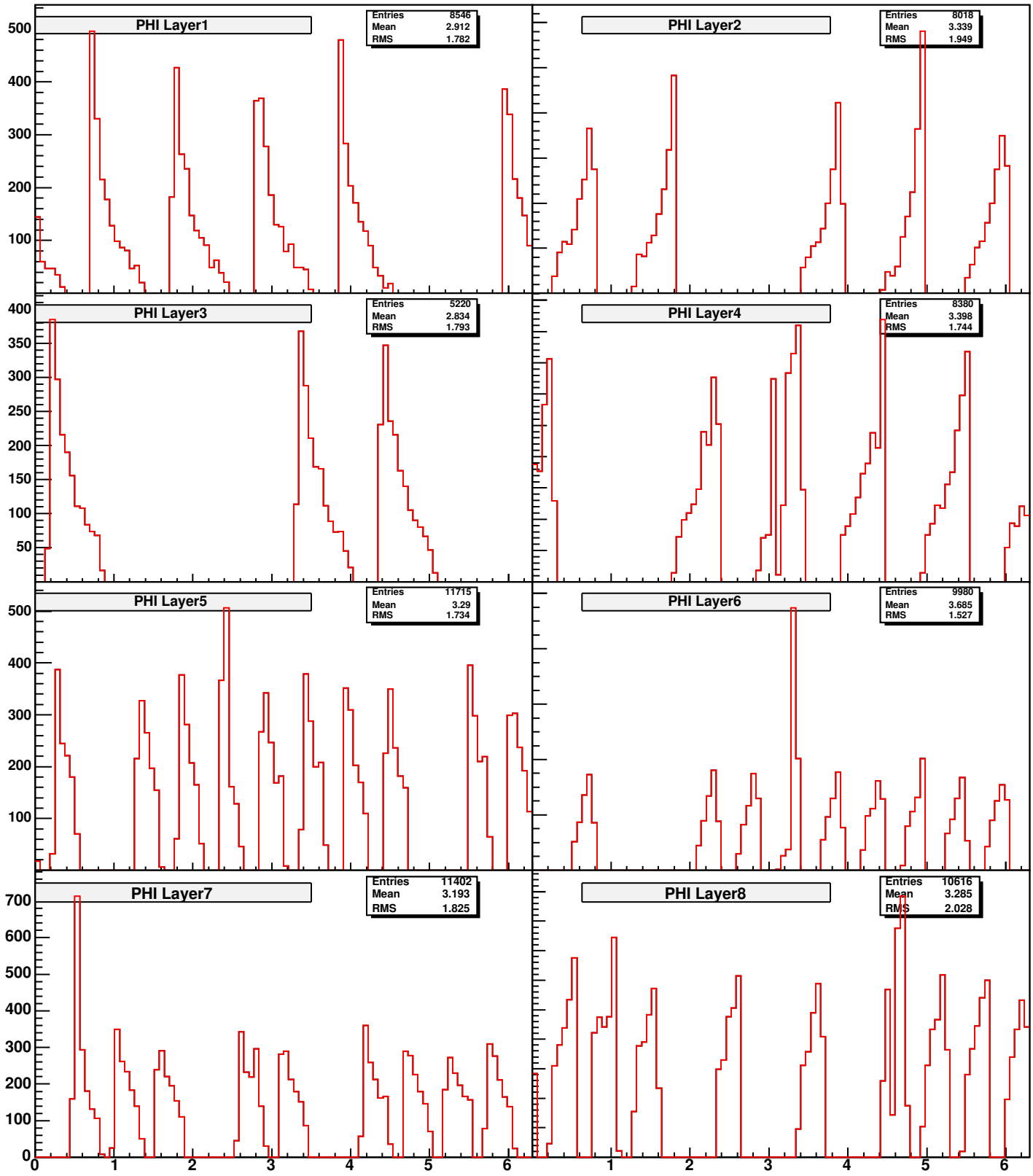

PHI HDisk All
Entries 80136
Mean 3.216
RMS 1.845
800
600
400
200
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



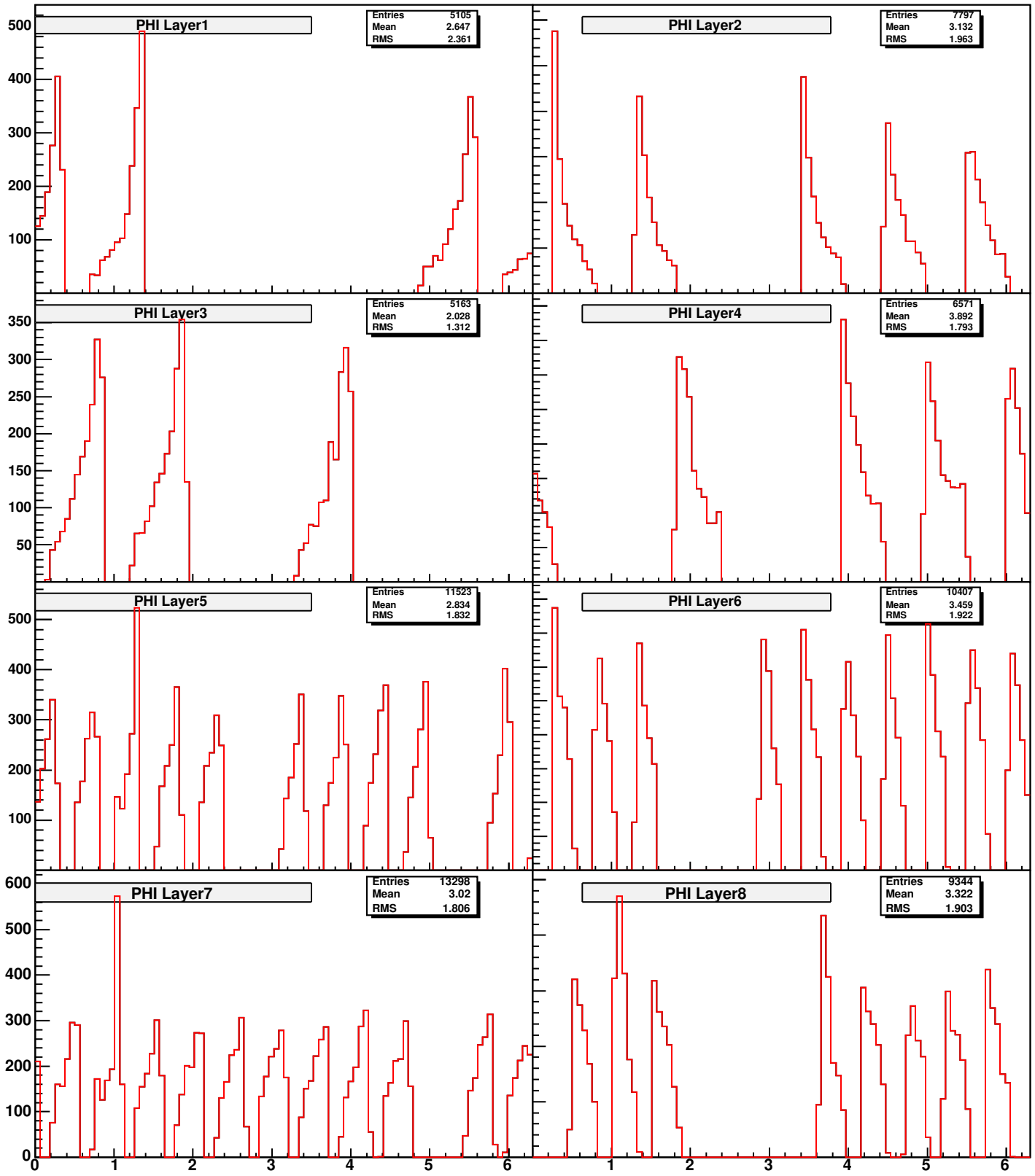

**SmtClusters (ClustrBar1)**



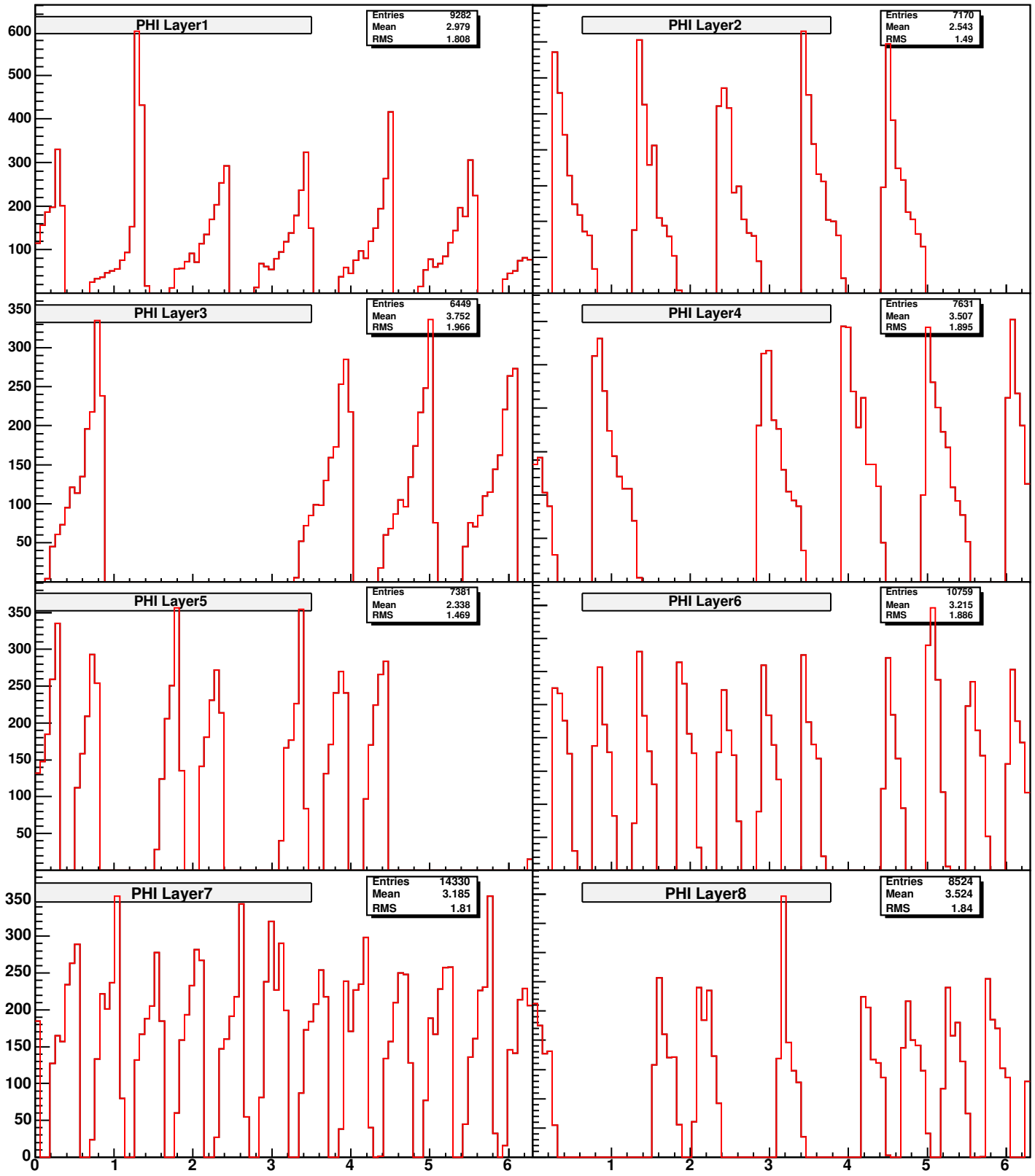

**SmtClusters (ClustrBar2)**



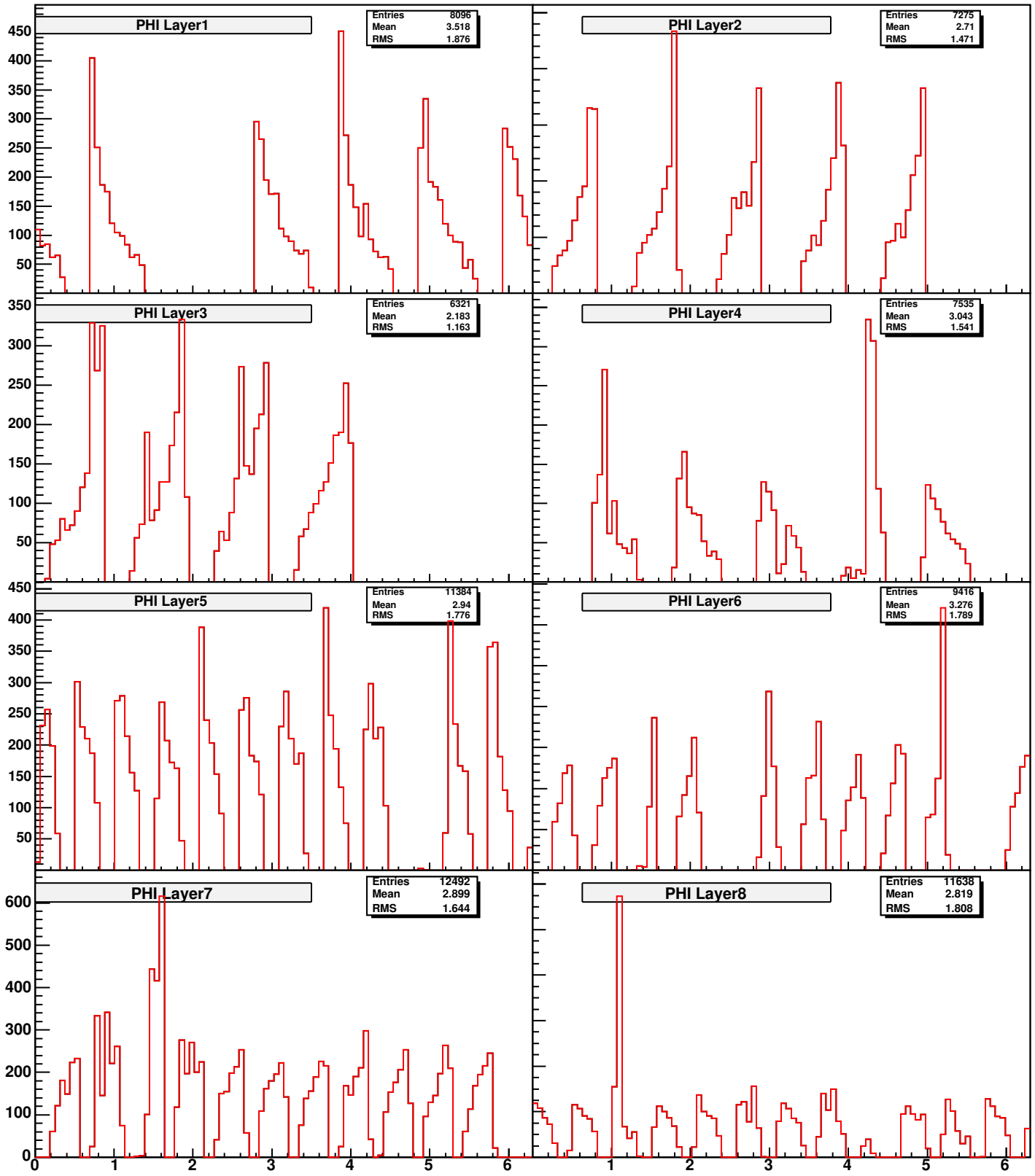

**SmtClusters (ClustrBar3)**



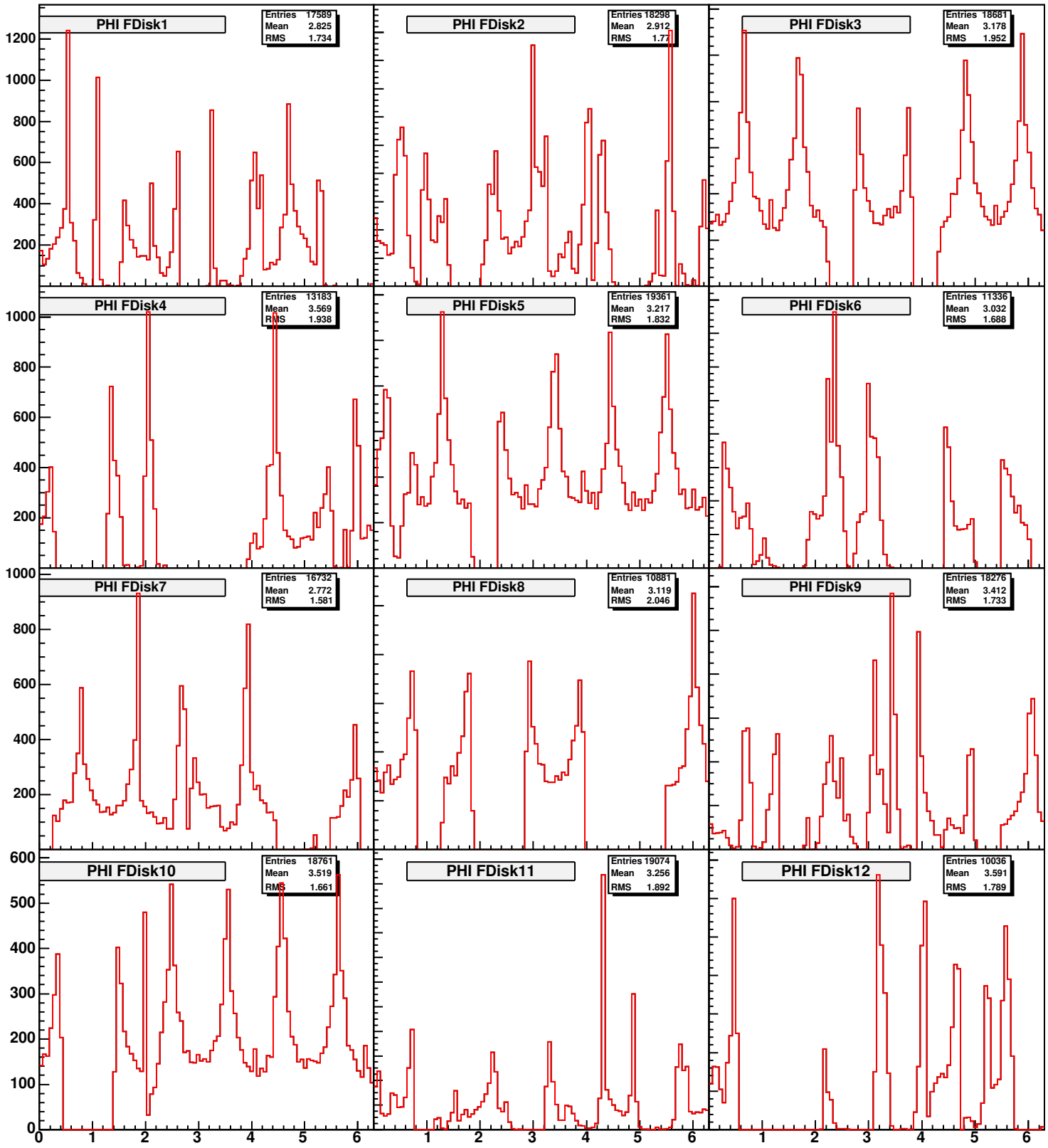

**SmtClusters (ClustrBar4)**



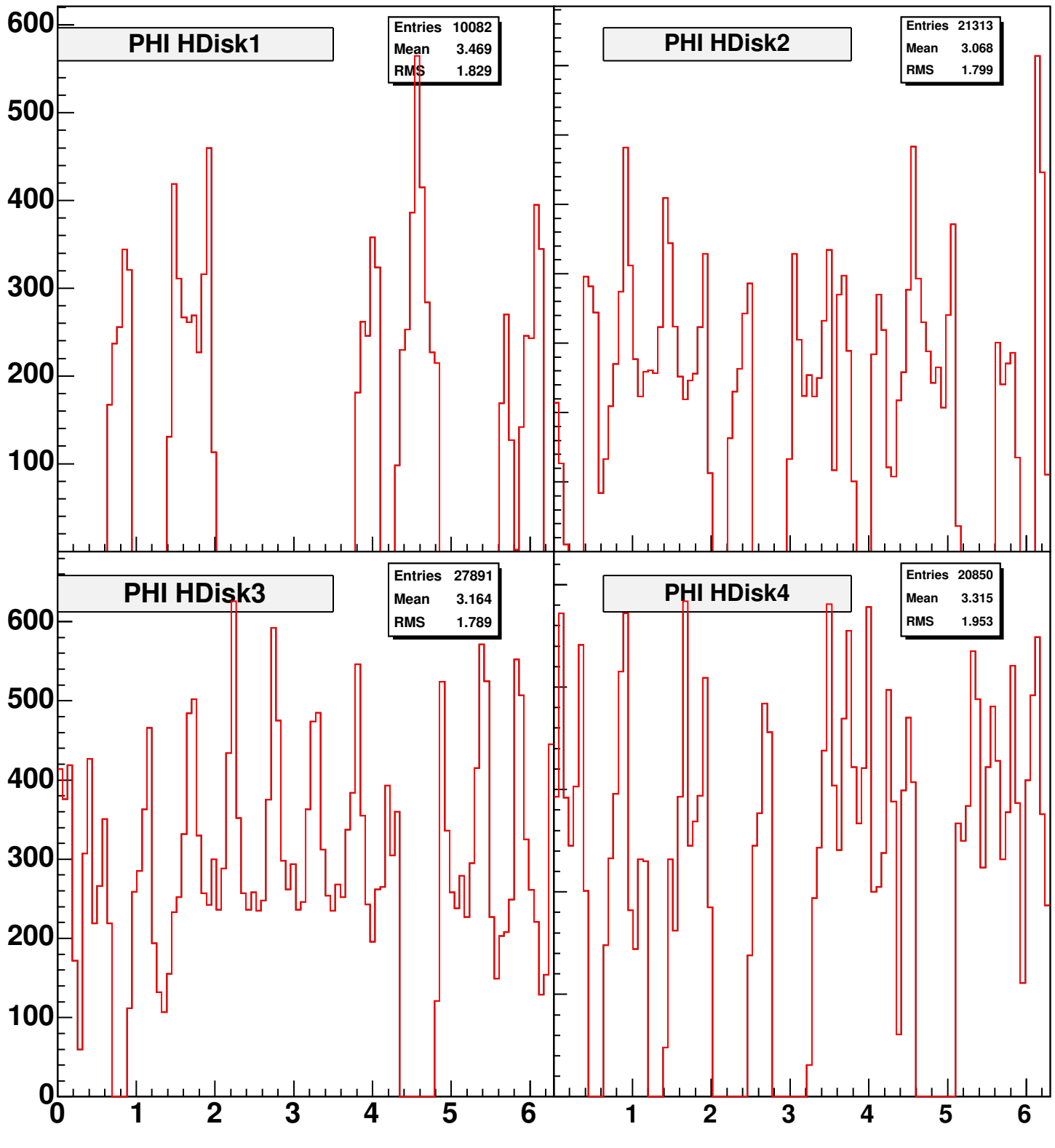

**SmtClusters (ClustrBar5)**

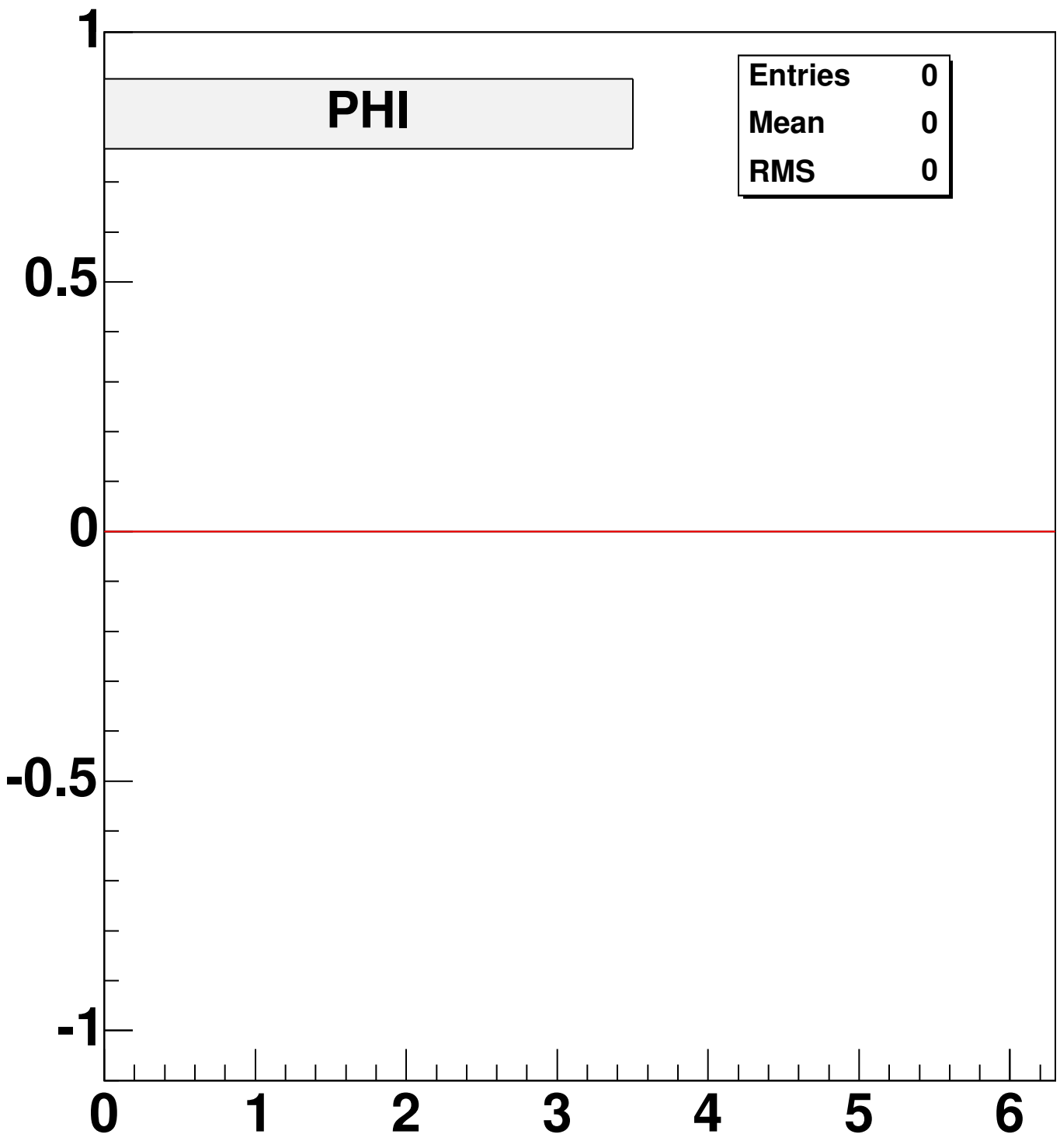


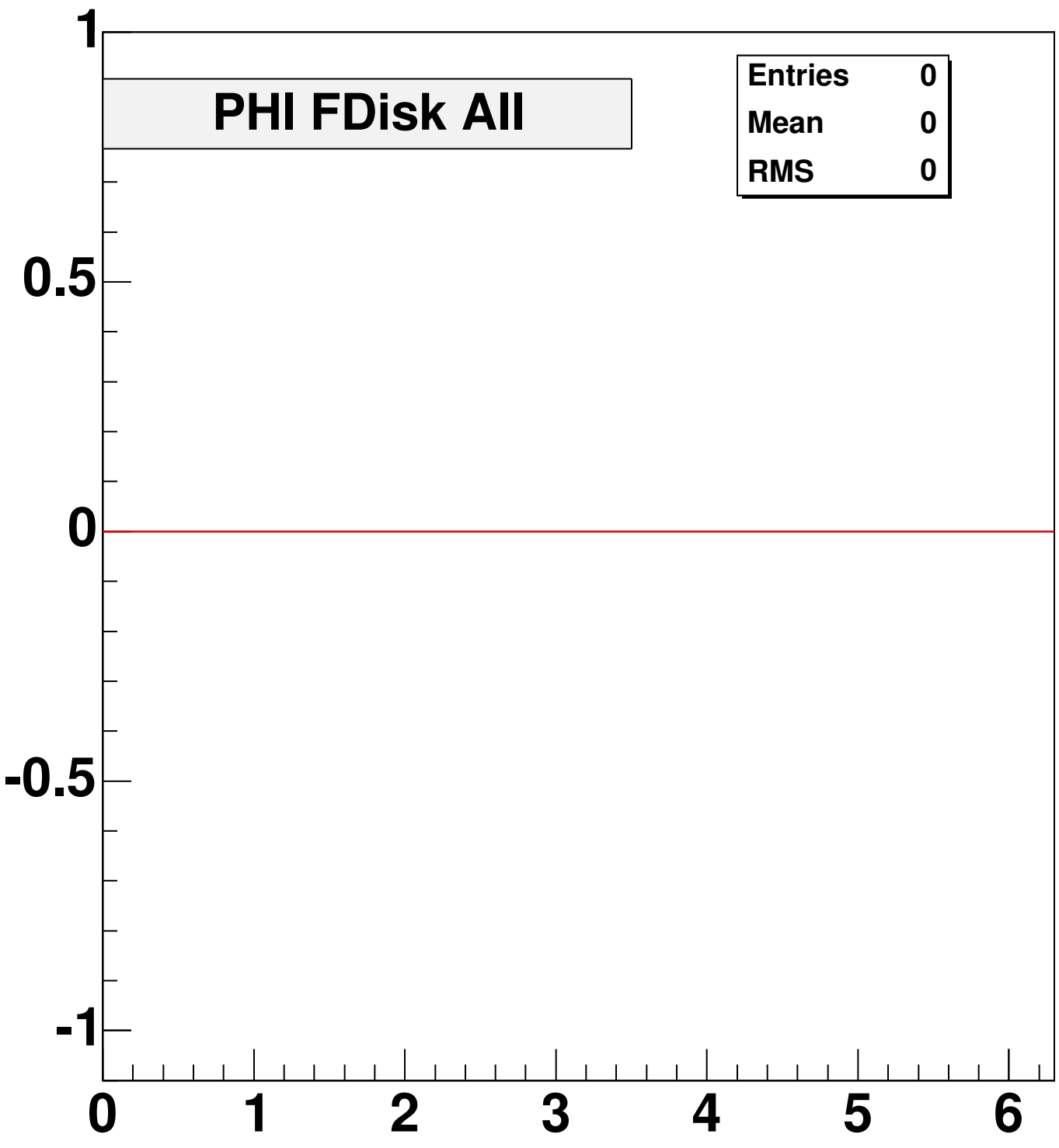

**SmtClusters (ClustrBar6)**

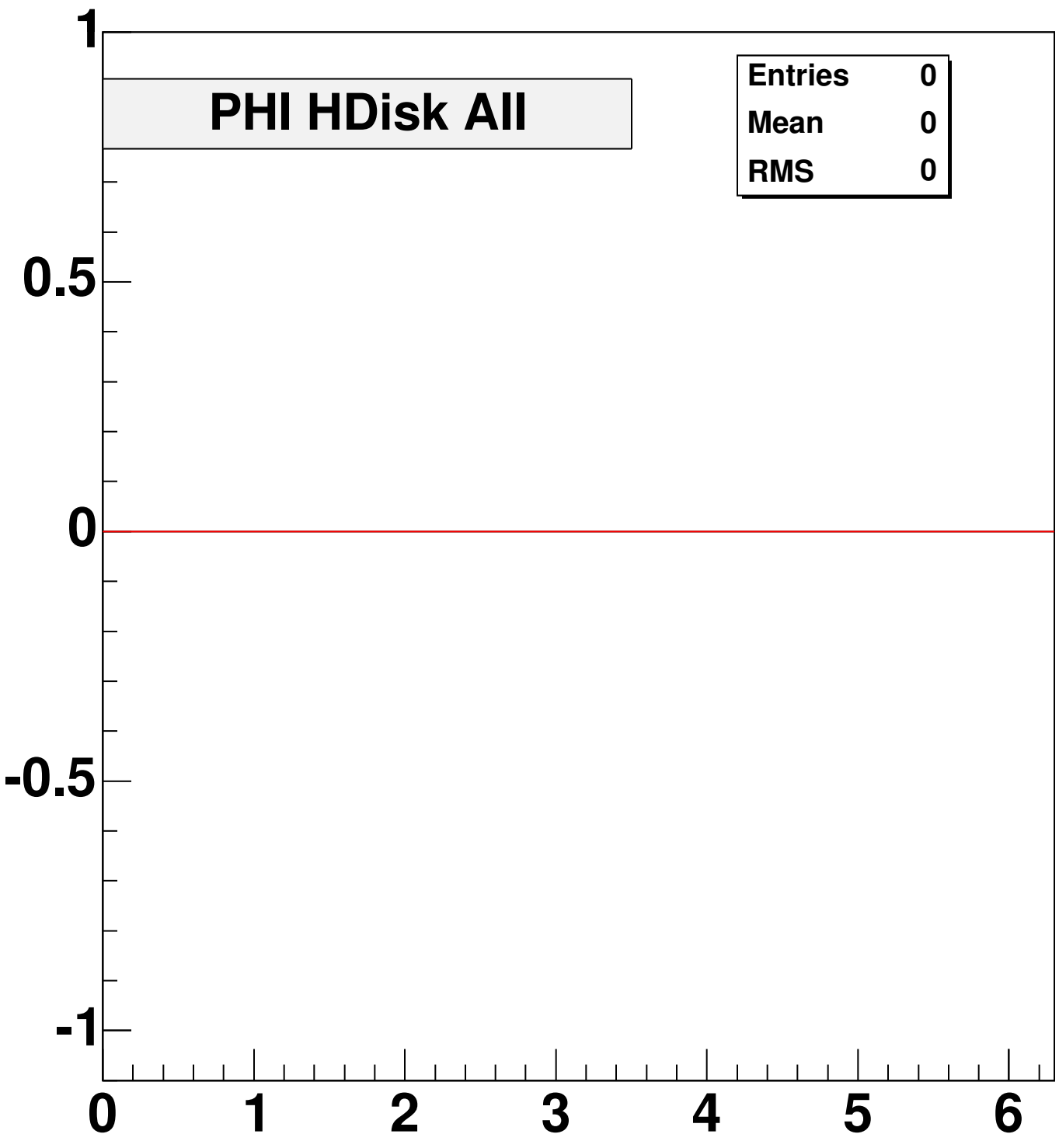


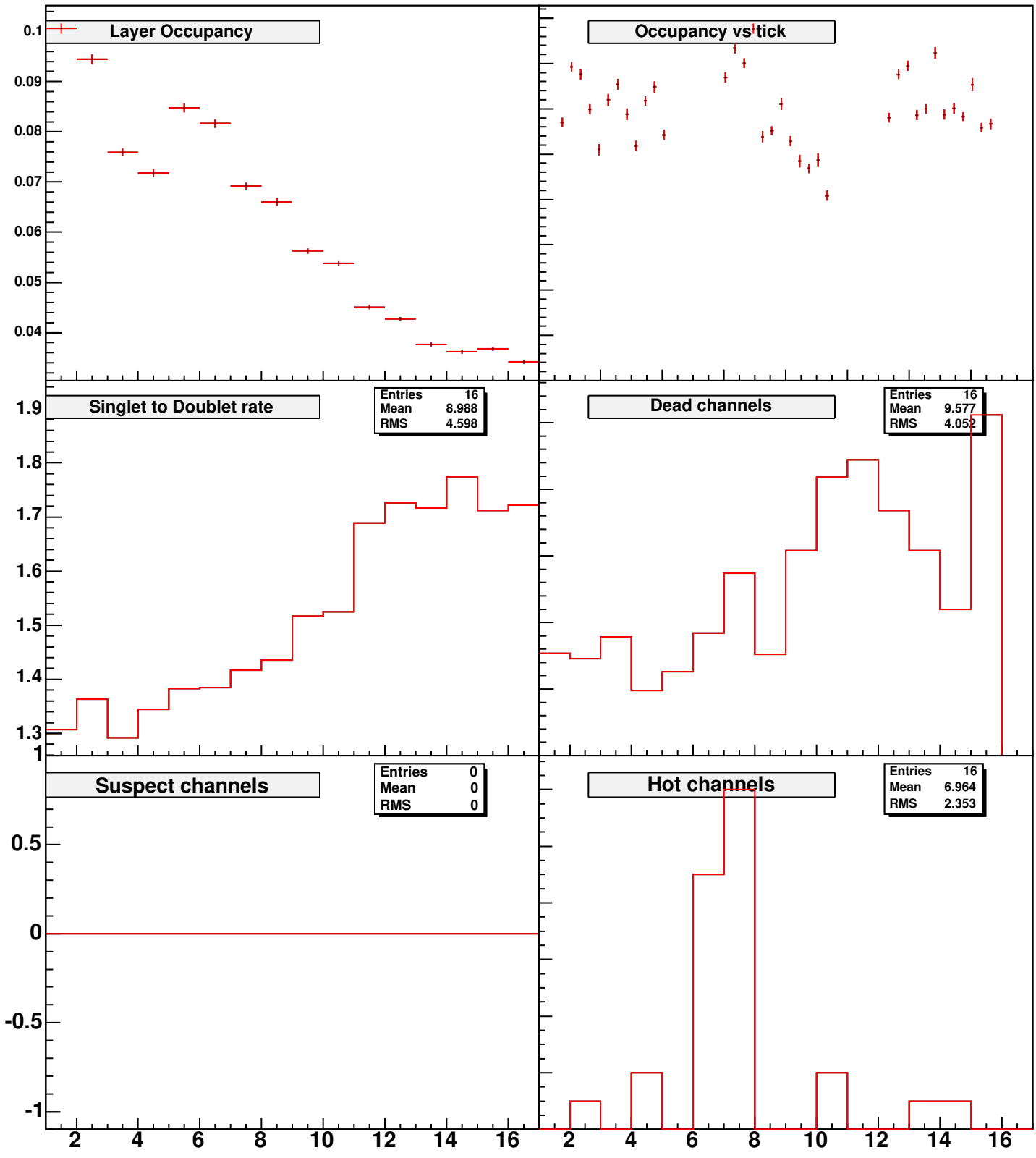

**SmtClusters (FDiskClusters)**


PHI HDisk1
Entries 10082
Mean 3.469
RMS 1.829
PHI HDisk2
Entries 21313
Mean 3.068
RMS 1.799
PHI HDisk3
Entries 27891
Mean 3.164
RMS 1.789
PHI HDisk4
Entries 20850
Mean 3.315
RMS 1.953
0
100
200
300
400
500
600
0
1
2
3
4
5
6
SmtClusters (HDiskClusters)

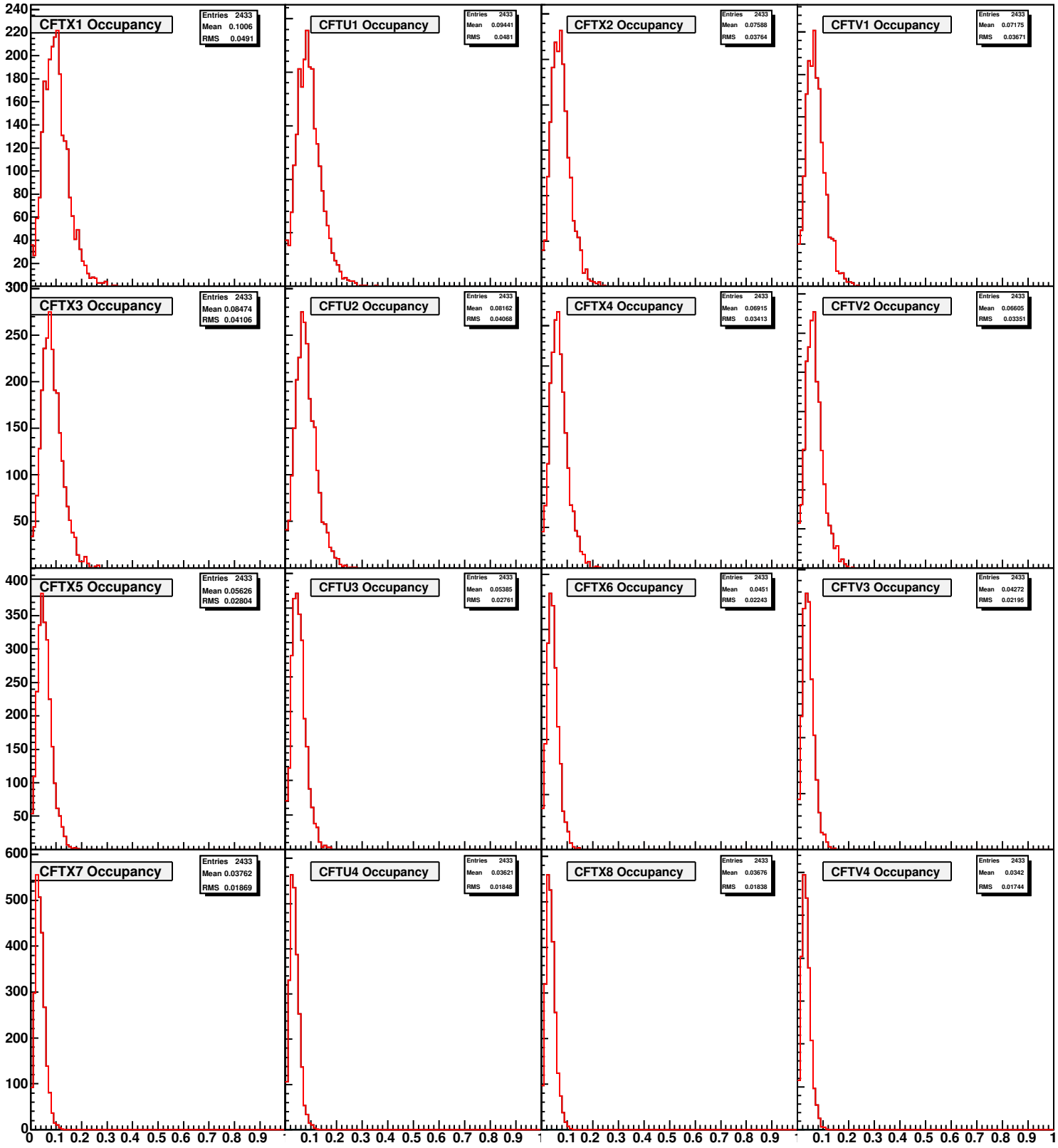

PHI
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)


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)

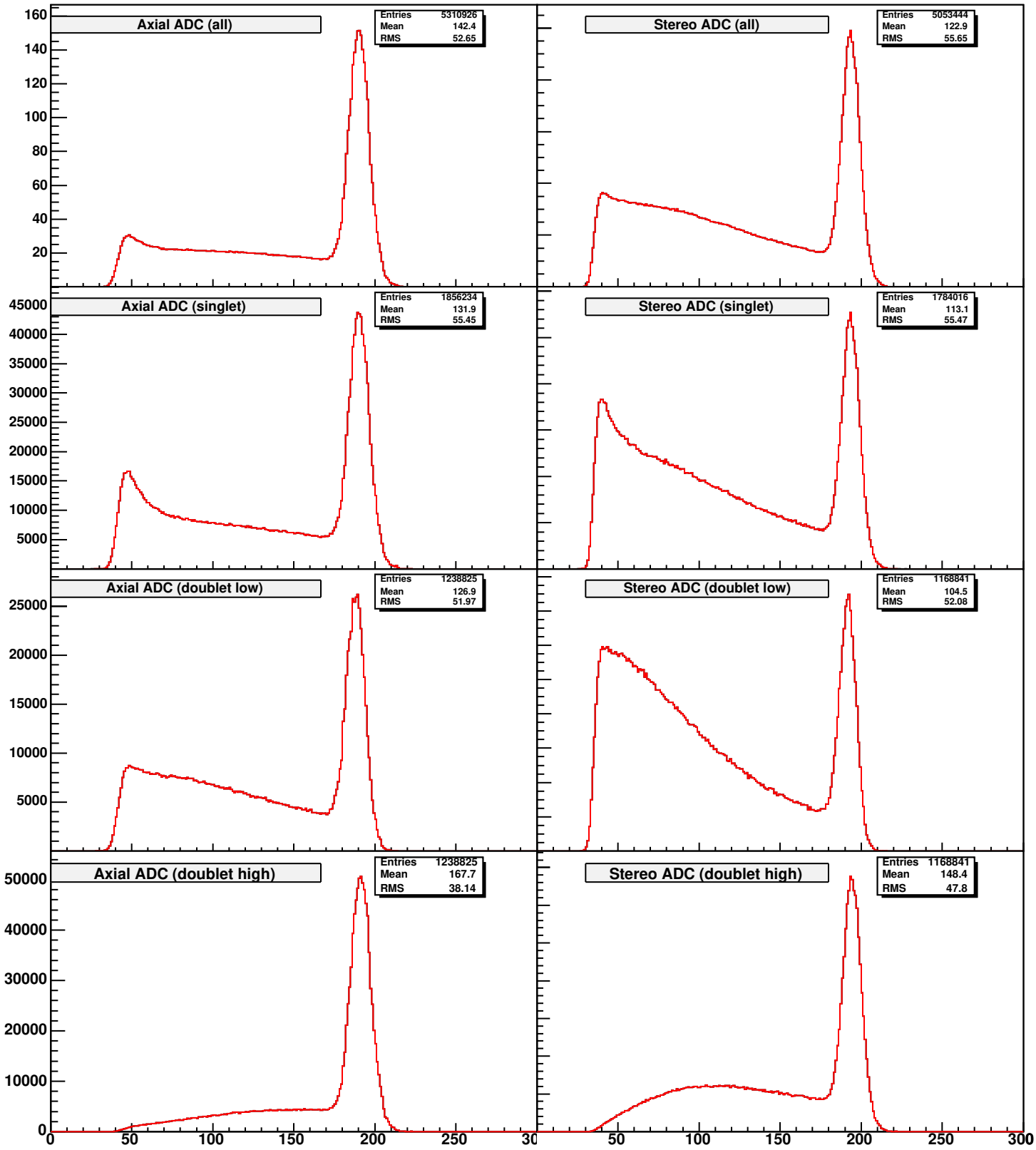

PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allHDiskTClusters)



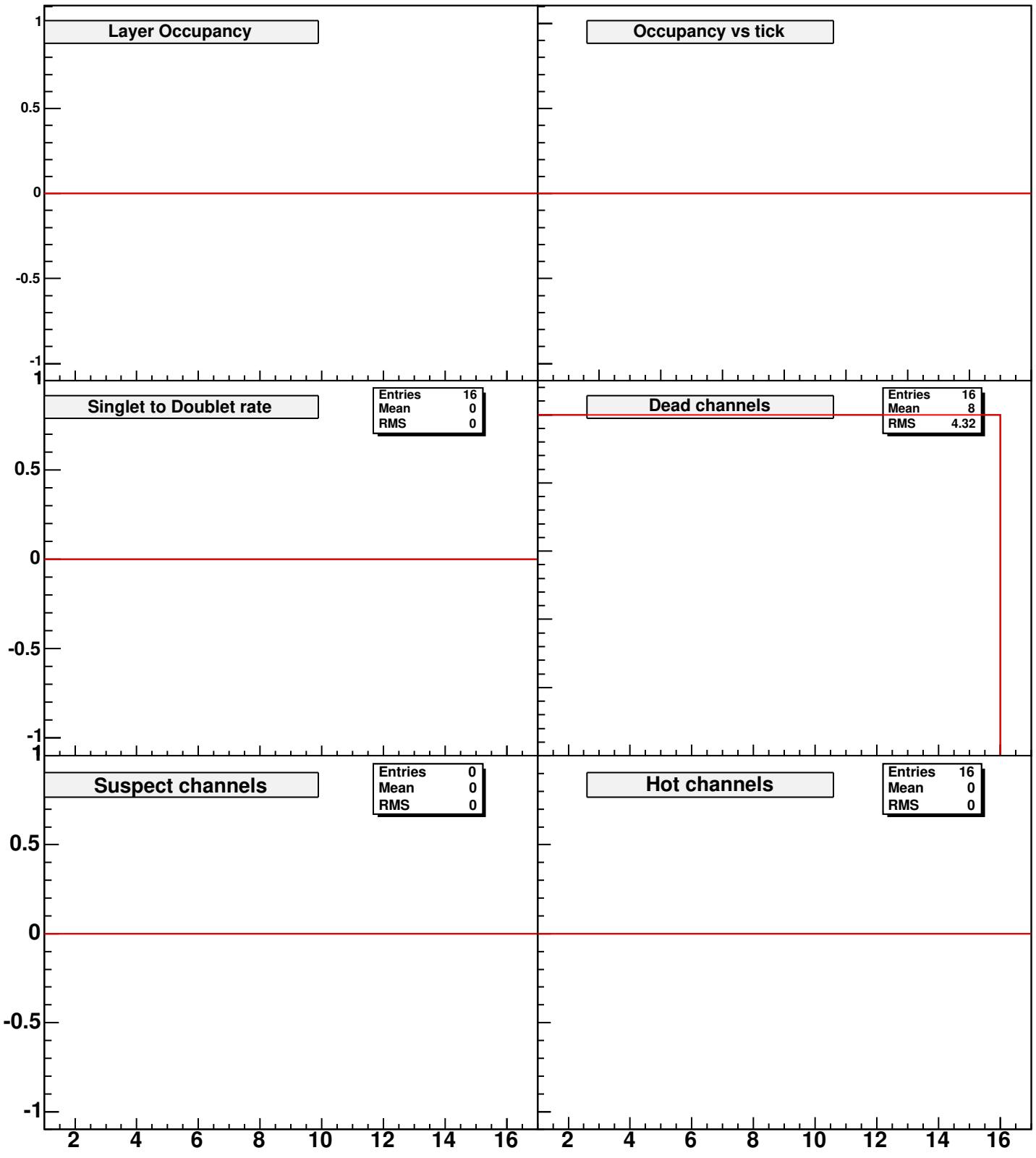

CFT Summary (All Clusters)



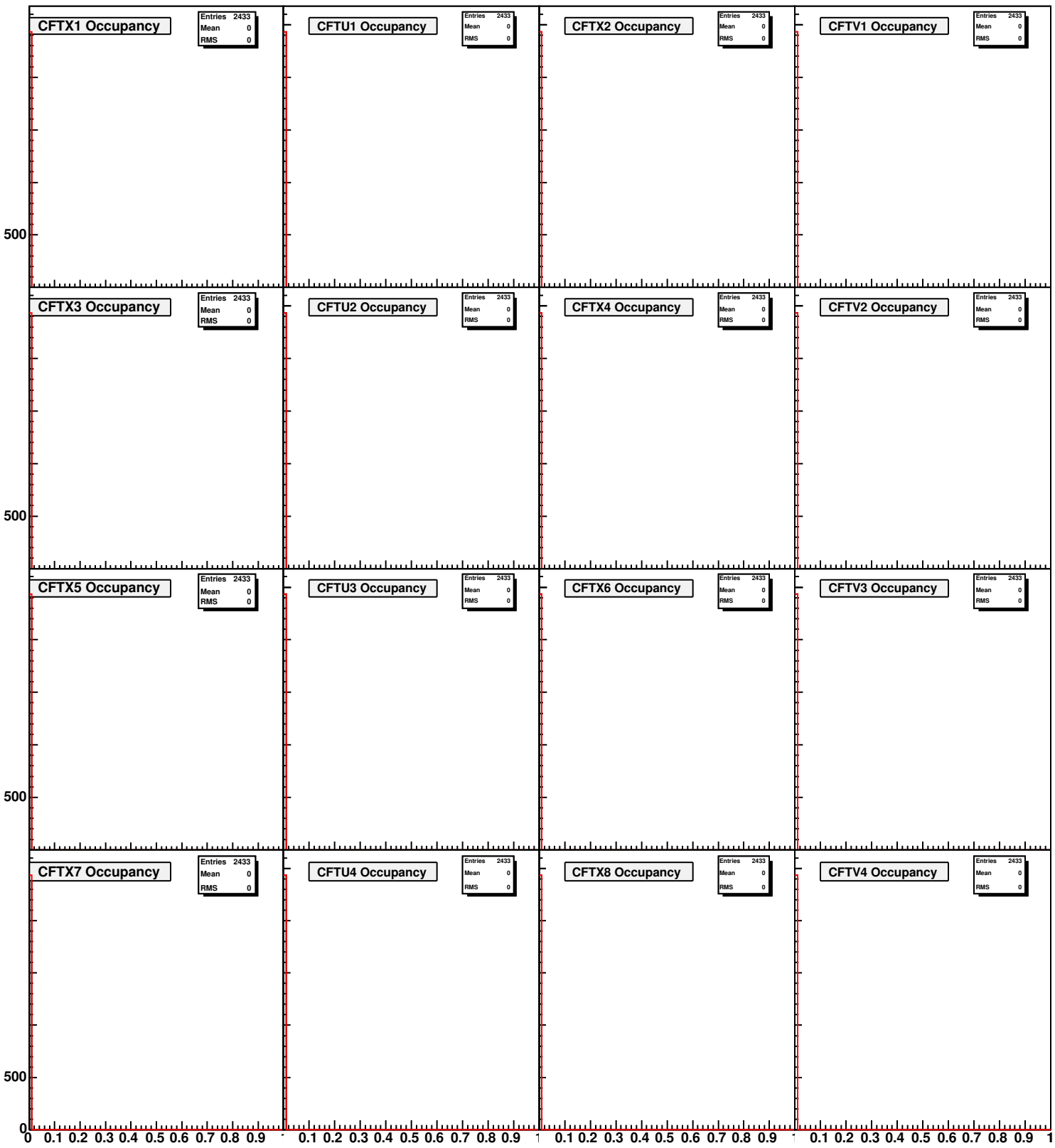

# CFT Occupancy (All Clusters)



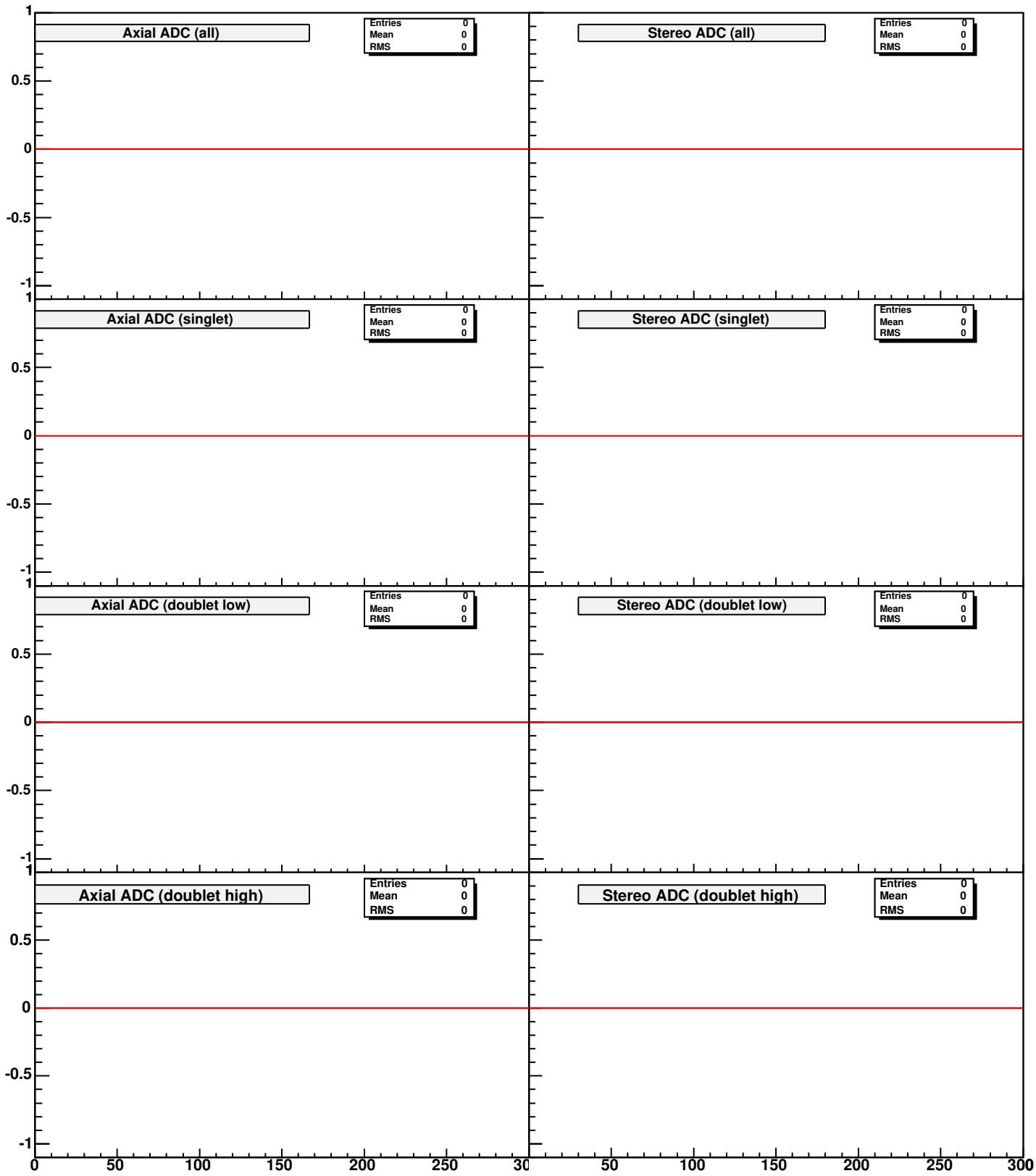

# CFT ADC Summary (All Clusters)



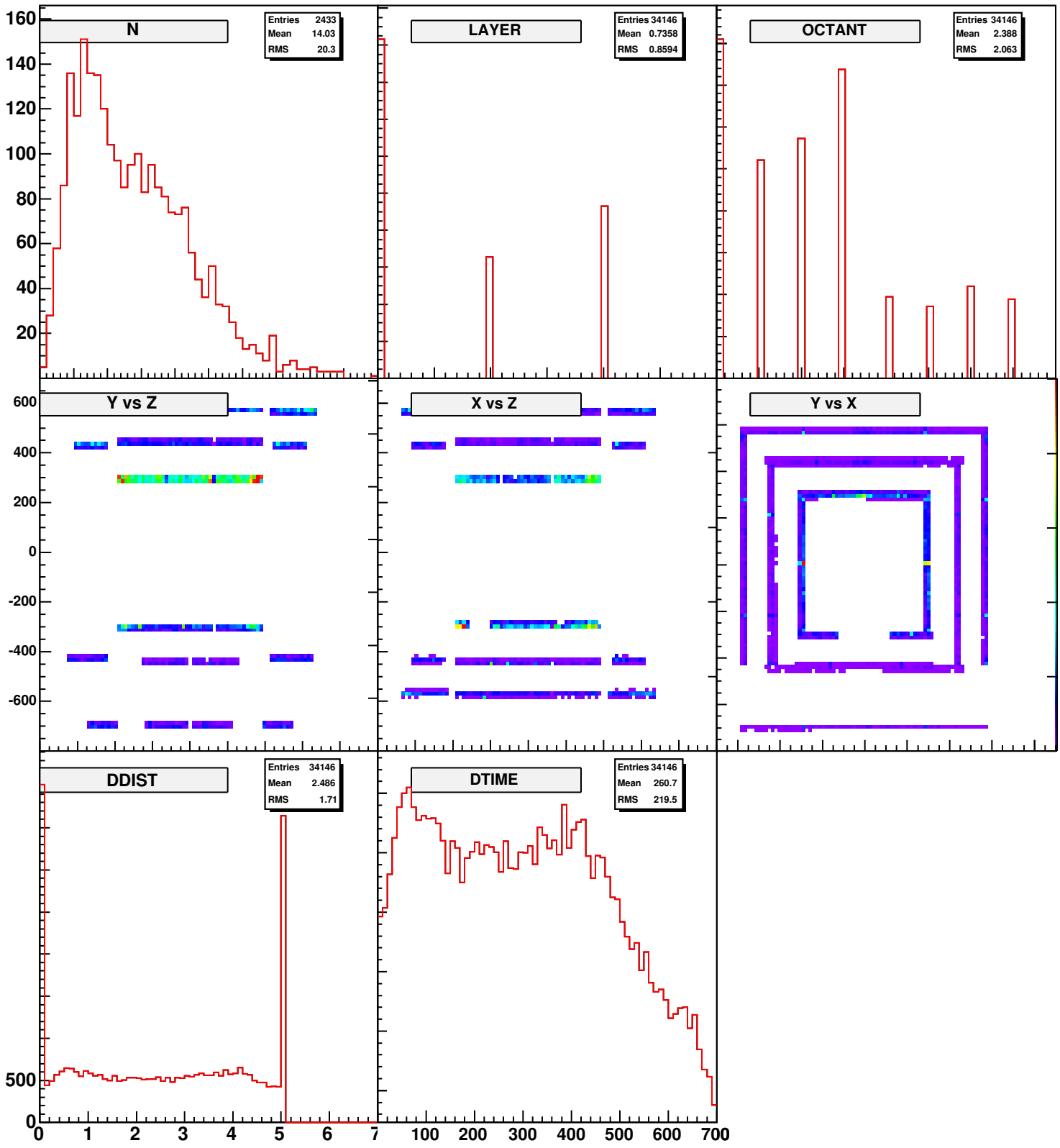

# CFT Summary (Clusters on tracks)



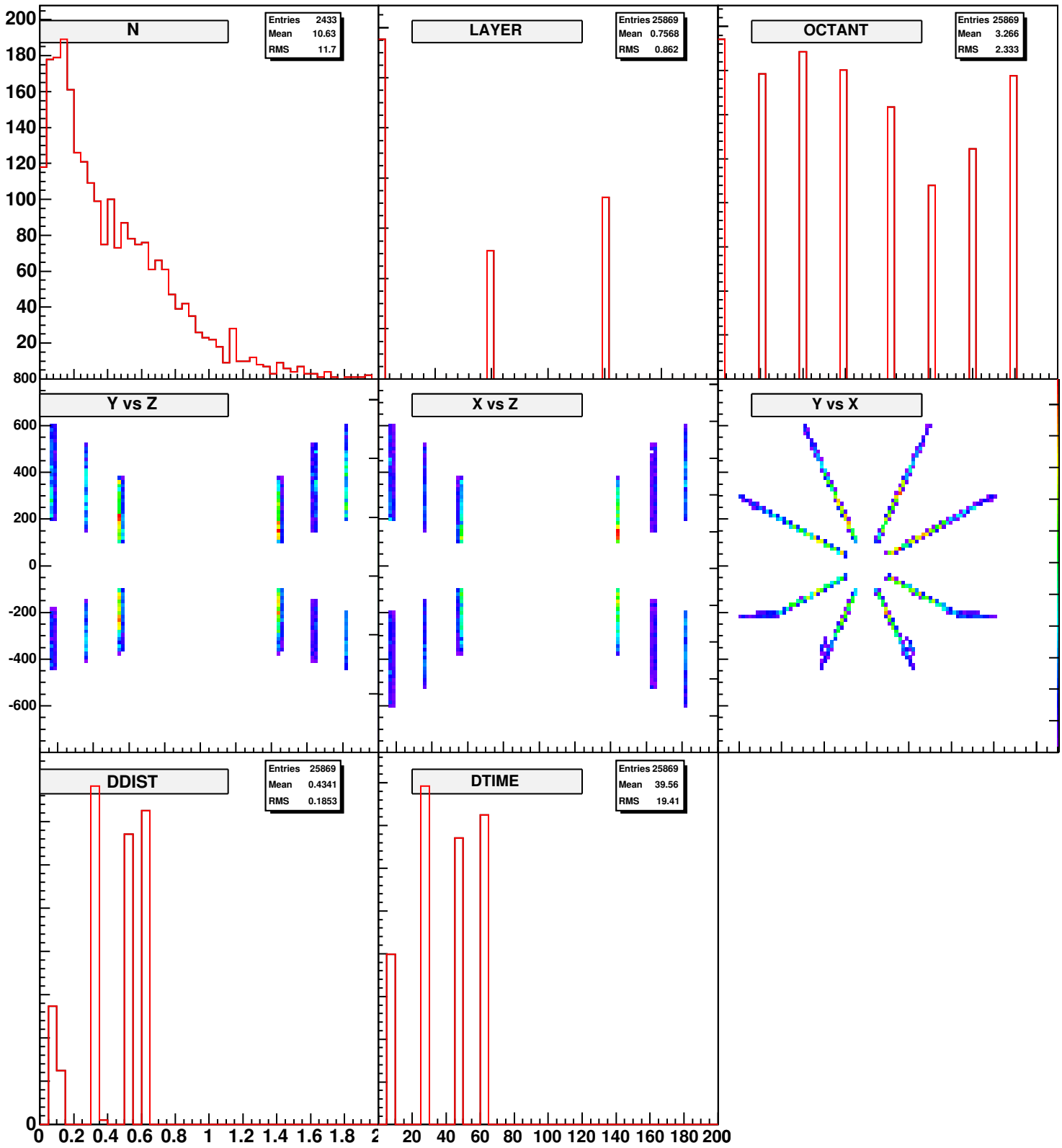

# CFT Occupancy (Clusters on tracks)



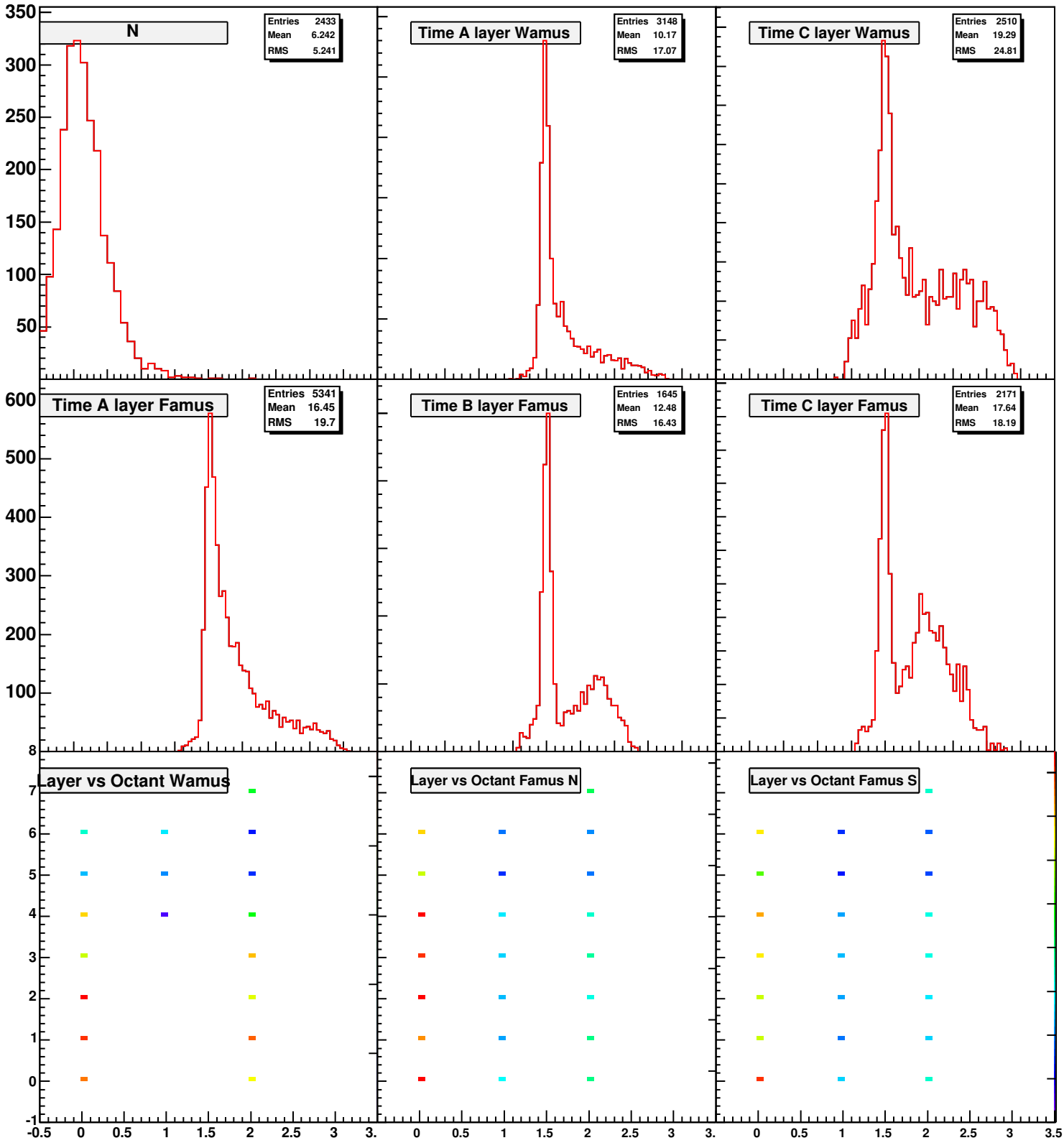

# CFT ADC Summary (Clusters on tracks)


N
Entries 2433
Mean 14.03
RMS 20.3
LAYER
Entries 34146
Mean 0.7358
RMS 0.8594
OCTANT
Entries 34146
Mean 2.388
RMS 2.063
Y vs Z
X vs Z
Y vs X
DDIST
Entries 34146
Mean 2.486
RMS 1.71
DTIME
Entries 34146
Mean 260.7
RMS 219.5

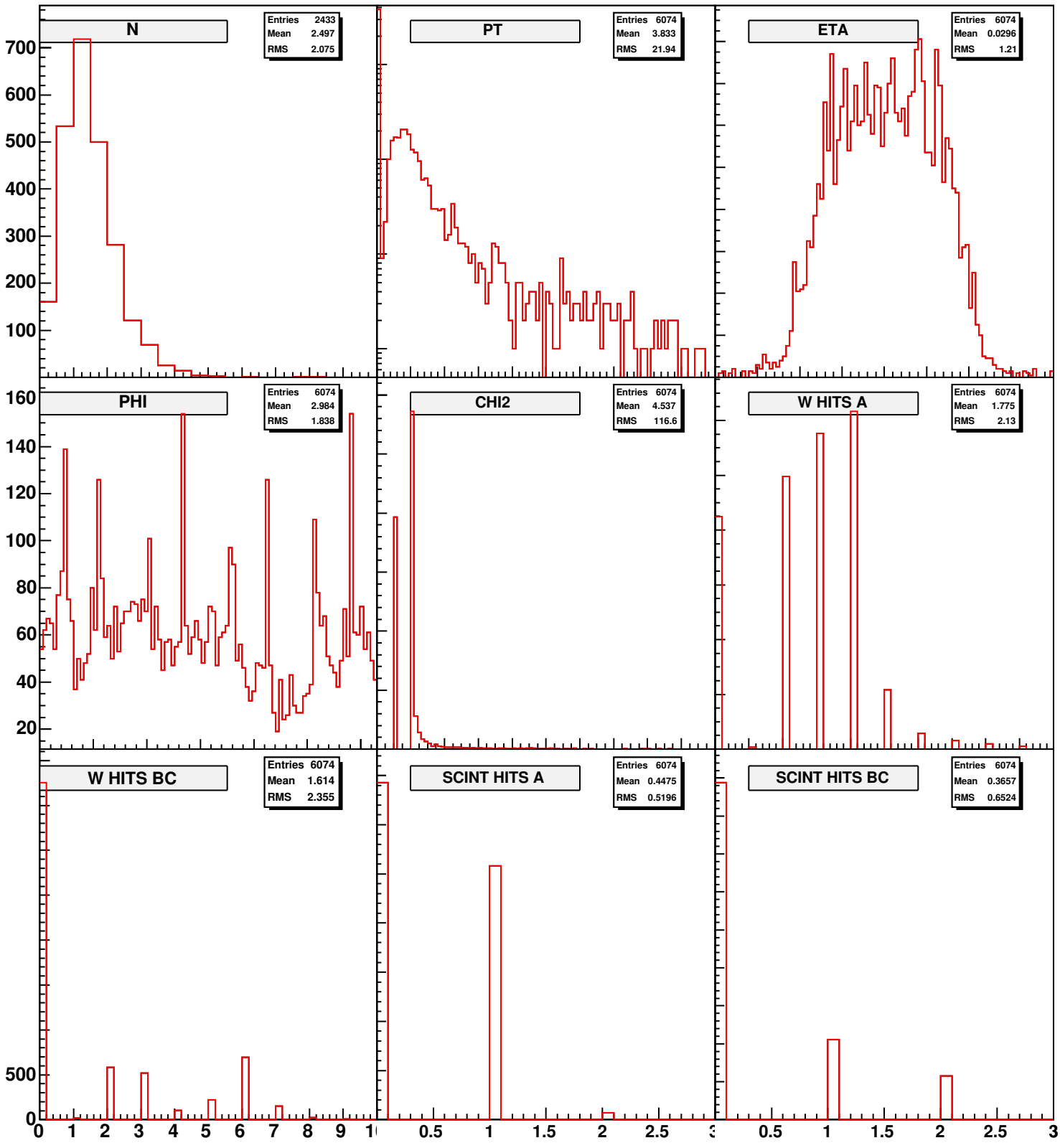
# MuonPDT (All)


N
Entries 2433
Mean 10.63
RMS 11.7
LAYER
Entries 25869
Mean 0.7568
RMS 0.862
OCTANT
Entries 25869
Mean 3.266
RMS 2.333
Y vs Z
X vs Z
Y vs X
DDIST
Entries 25869
Mean 0.4341
RMS 0.1853
DTIME
Entries 25869
Mean 39.56
RMS 19.41

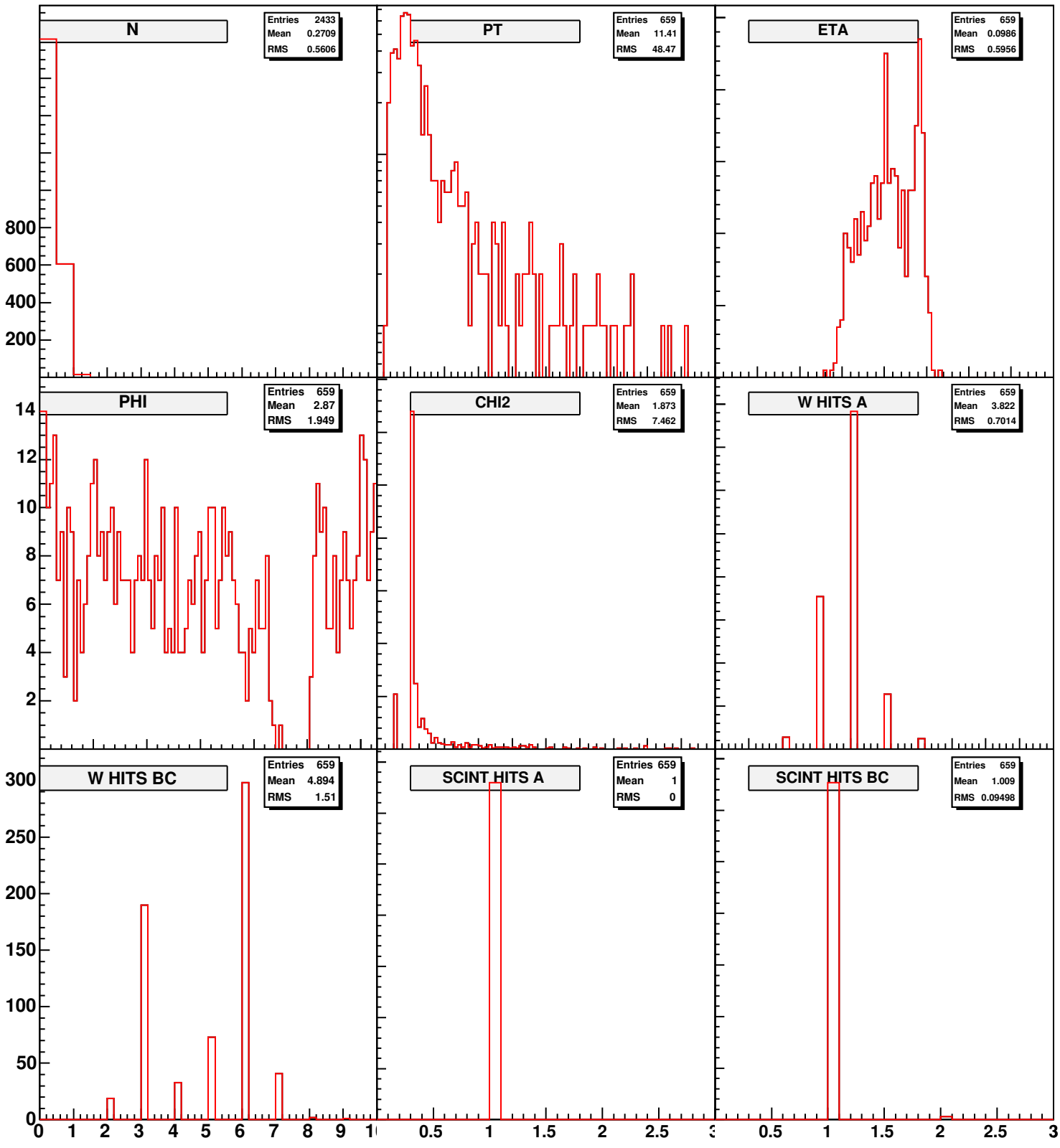
**MuonMDT (All)**


N
Entries 2433
Mean 6.242
RMS 5.241
Time A layer Wamus
Entries 3148
Mean 10.17
RMS 17.07
Time C layer Wamus
Entries 2510
Mean 19.29
RMS 24.81
Time A layer Famus
Entries 5341
Mean 16.45
RMS 19.7
Time B layer Famus
Entries 1645
Mean 12.48
RMS 16.43
Time C layer Famus
Entries 2171
Mean 17.64
RMS 18.19
Layer vs Octant Wamus
Layer vs Octant Famus N
Layer vs Octant Famus S

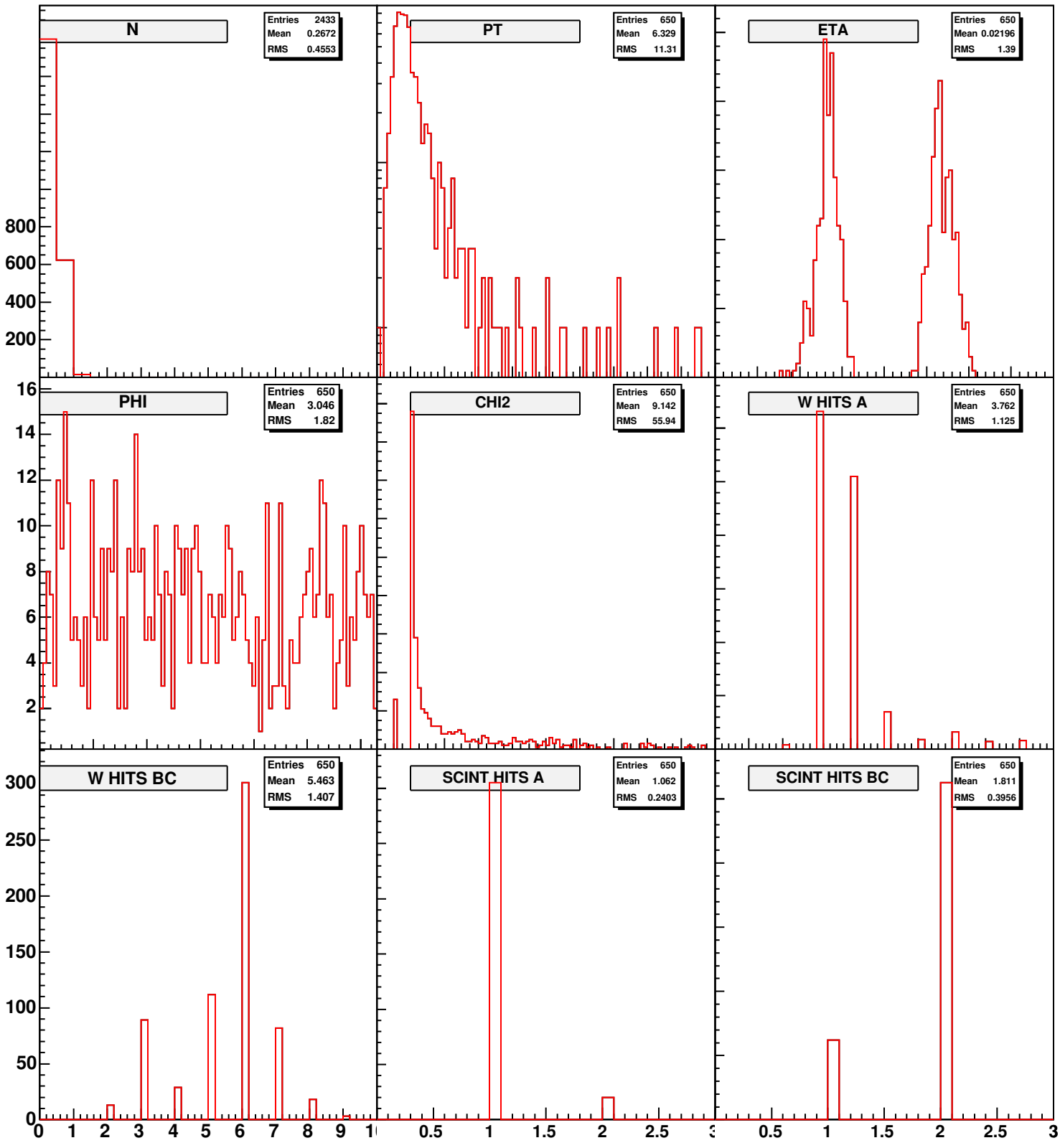
# MuonMSC (All)



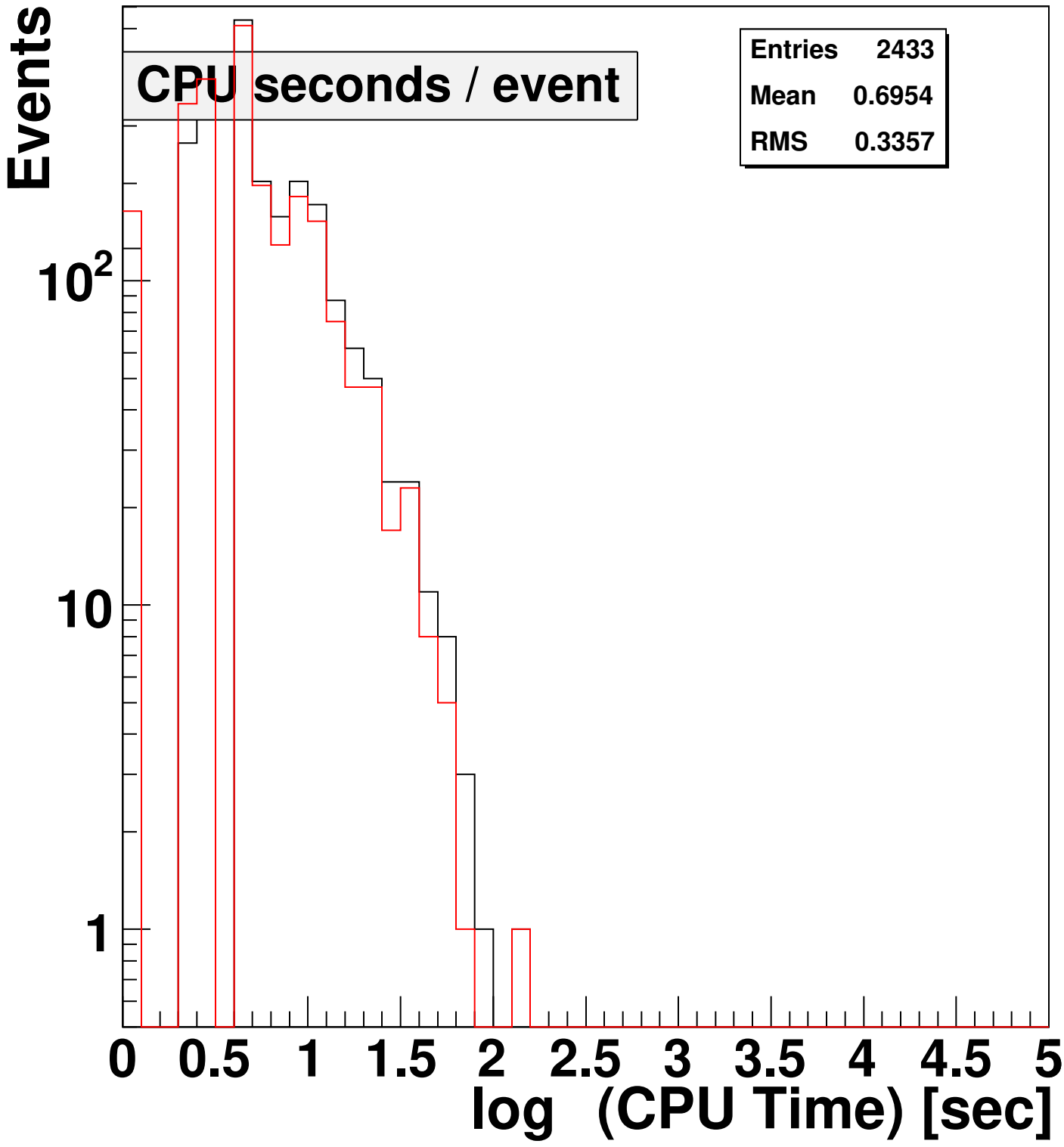

# Muon Local Tracks (All)




# Muon Local Tracks (MediumWamus)




# Muon Local Tracks (MediumFamus)




RECO Performance (Timing)