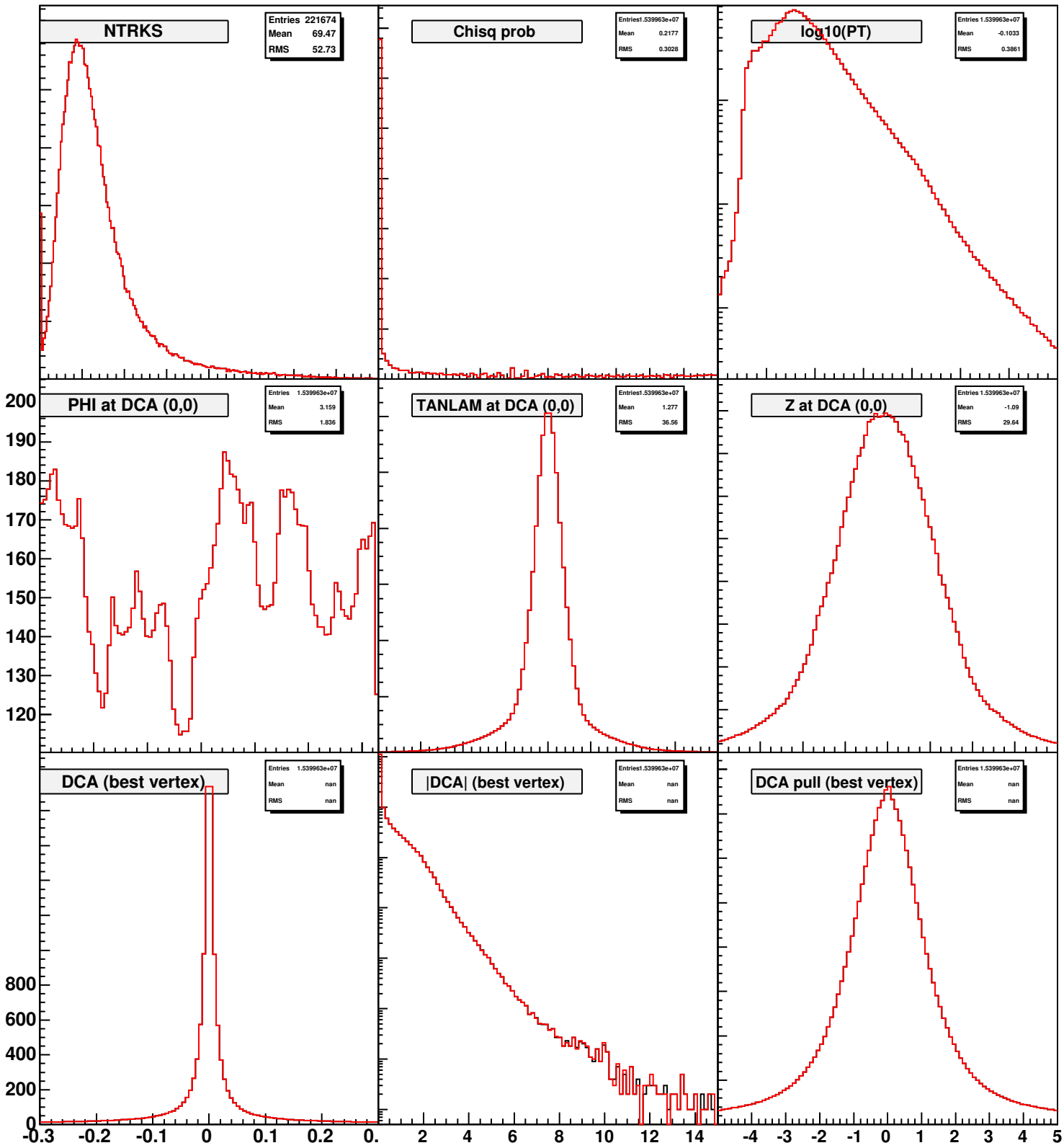
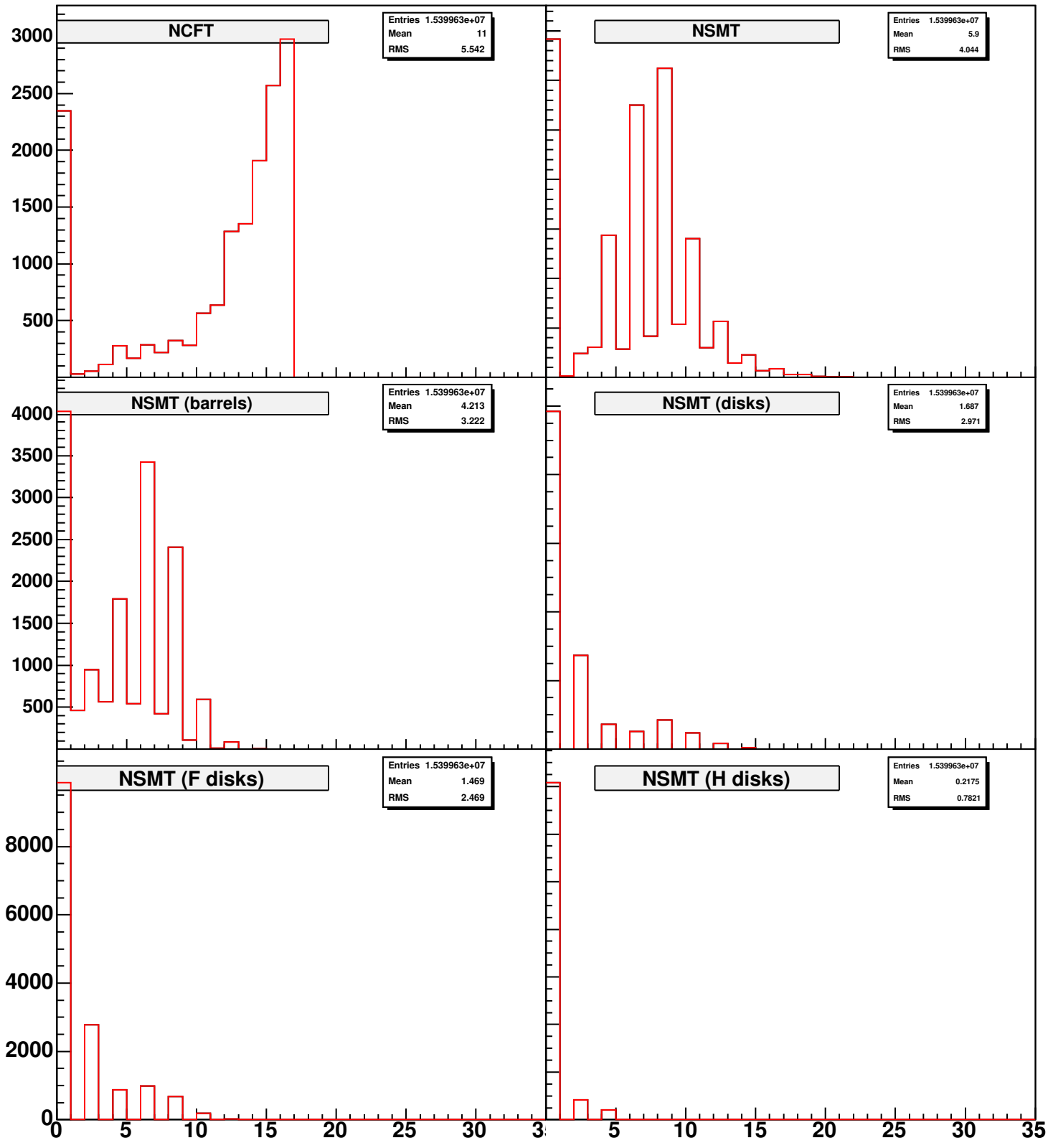
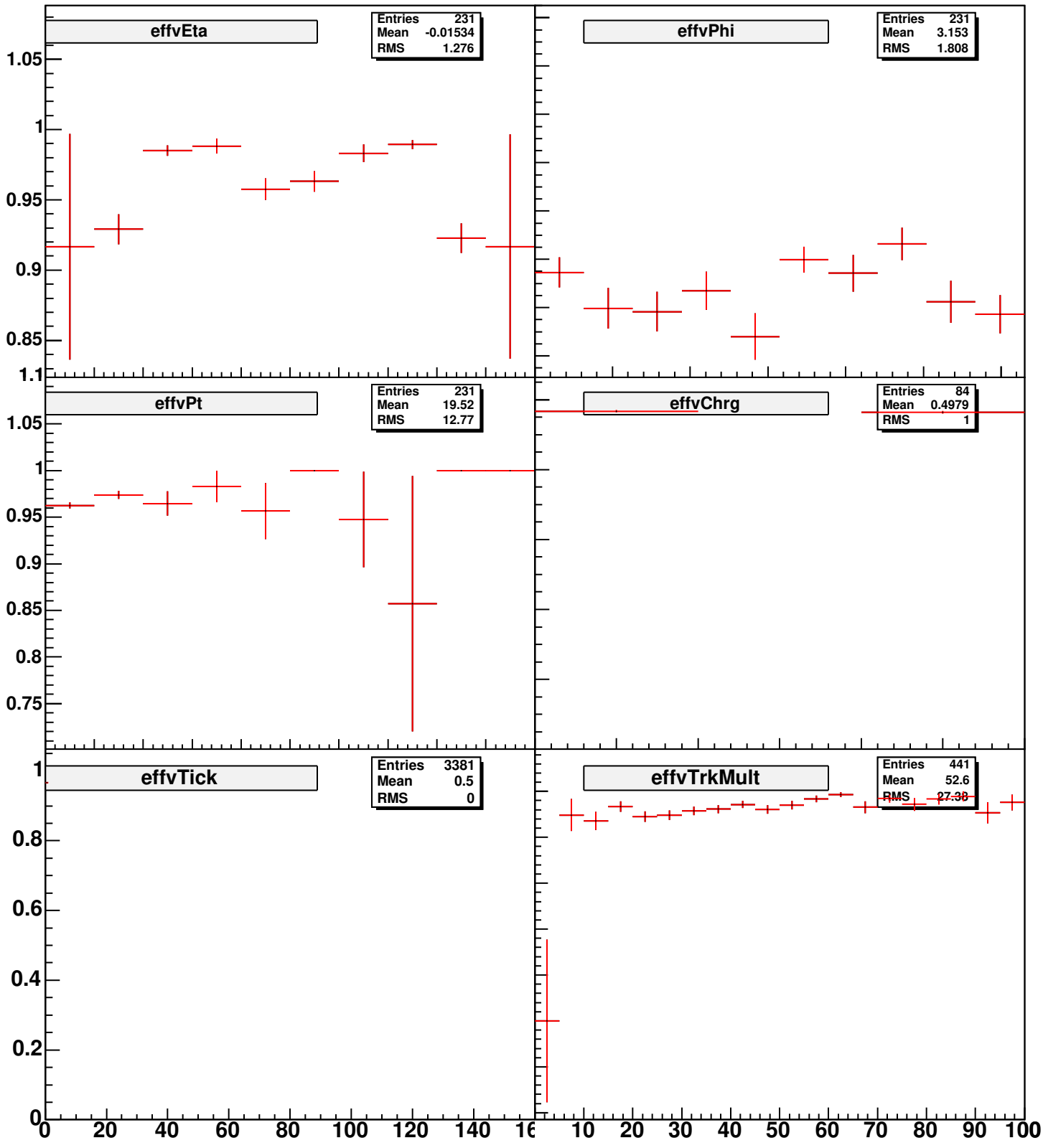
dayset-2004-06-21-194341-0_certification_200505

dayset-2004-06-21-194341-0_certification_200505

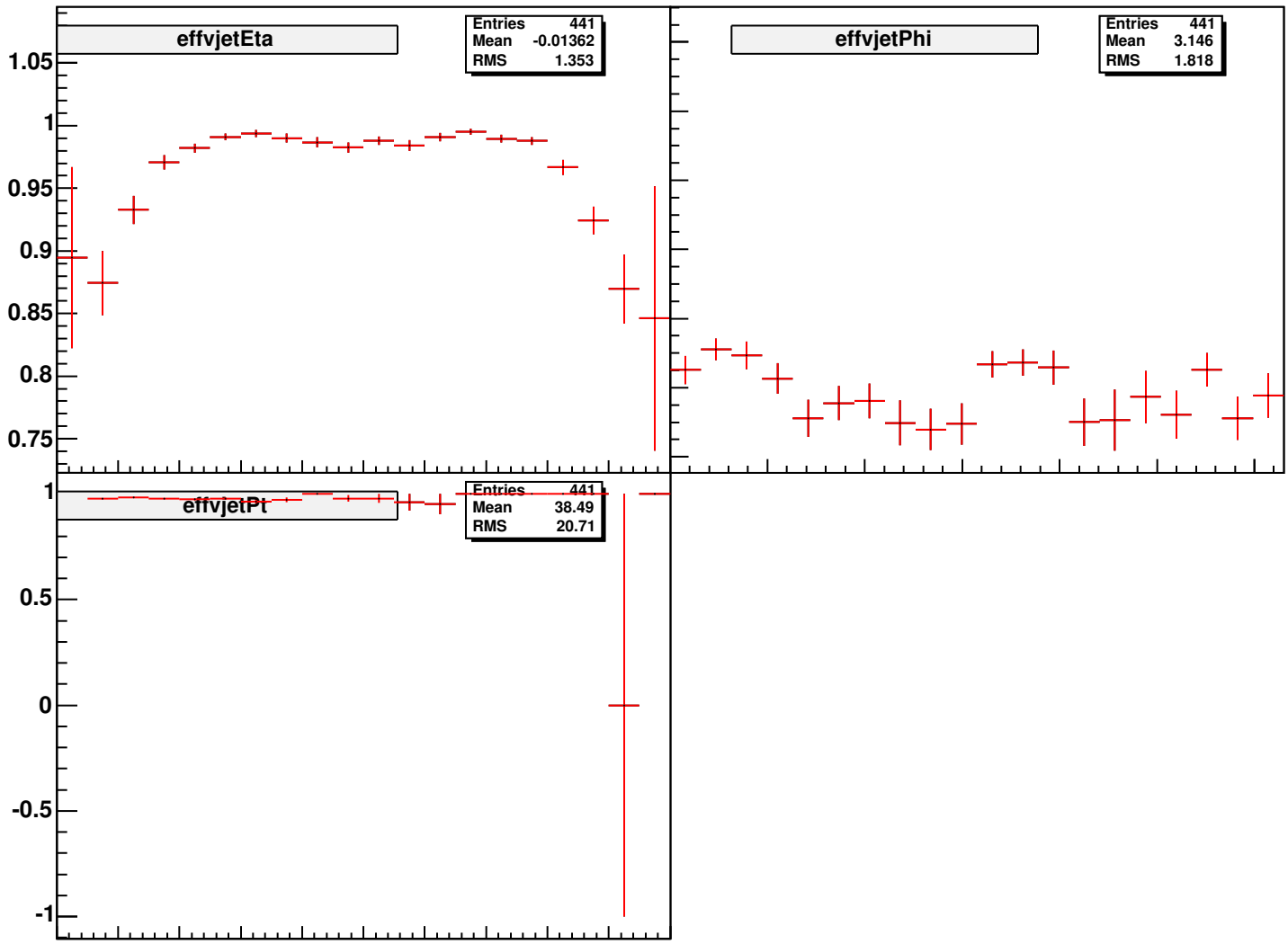

NTRKS
Entries 221674
Mean 69.47
RMS 52.73
Chisq prob
Entries1.539963e+07
Mean 0.2177
RMS 0.3028
log10(PT)
Entries 1.539963e+07
Mean -0.1033
RMS 0.3861
PHI at DCA (0,0)
Entries 1.539963e+07
Mean 3.159
RMS 1.836
TANLAM at DCA (0,0)
Entries1.539963e+07
Mean 1.277
RMS 36.56
Z at DCA (0,0)
Entries 1.539963e+07
Mean -1.09
RMS 29.64
DCA (best vertex)
Entries 1.539963e+07
Mean nan
RMS nan
|DCA| (best vertex)
Entries1.539963e+07
Mean nan
RMS nan
DCA pull (best vertex)
Entries 1.539963e+07
Mean nan
RMS nan
200
190
180
170
160
150
140
130
120
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)

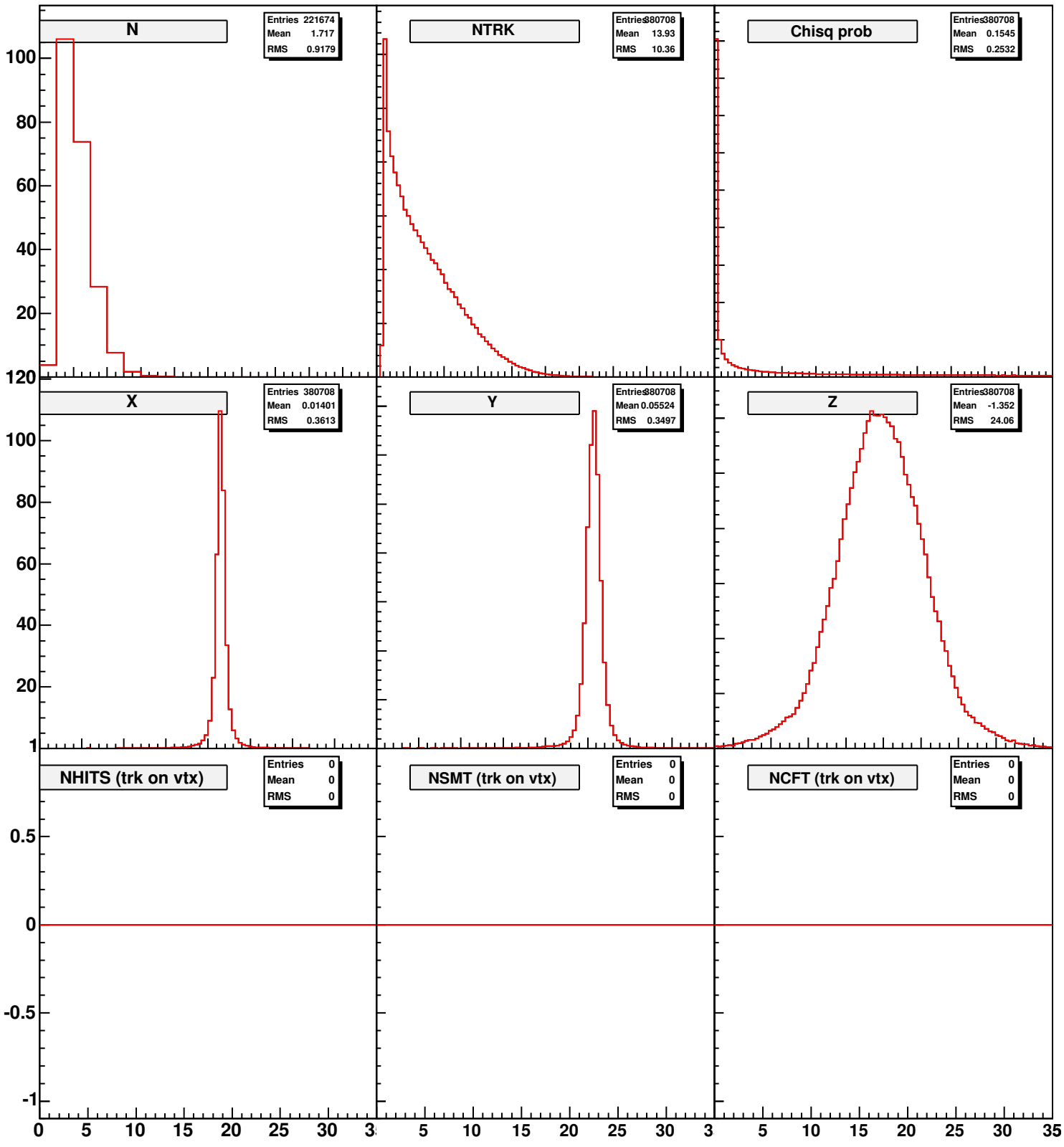

NCFT
Entries 1.539963e+07
Mean 11
RMS 5.542
NSMT
Entries 1.539963e+07
Mean 5.9
RMS 4.044
NSMT (barrels)
Entries 1.539963e+07
Mean 4.213
RMS 3.222
NSMT (disks)
Entries 1.539963e+07
Mean 1.687
RMS 2.971
NSMT (F disks)
Entries 1.539963e+07
Mean 1.469
RMS 2.469
NSMT (H disks)
Entries 1.539963e+07
Mean 0.2175
RMS 0.7821
Track Hits (All)

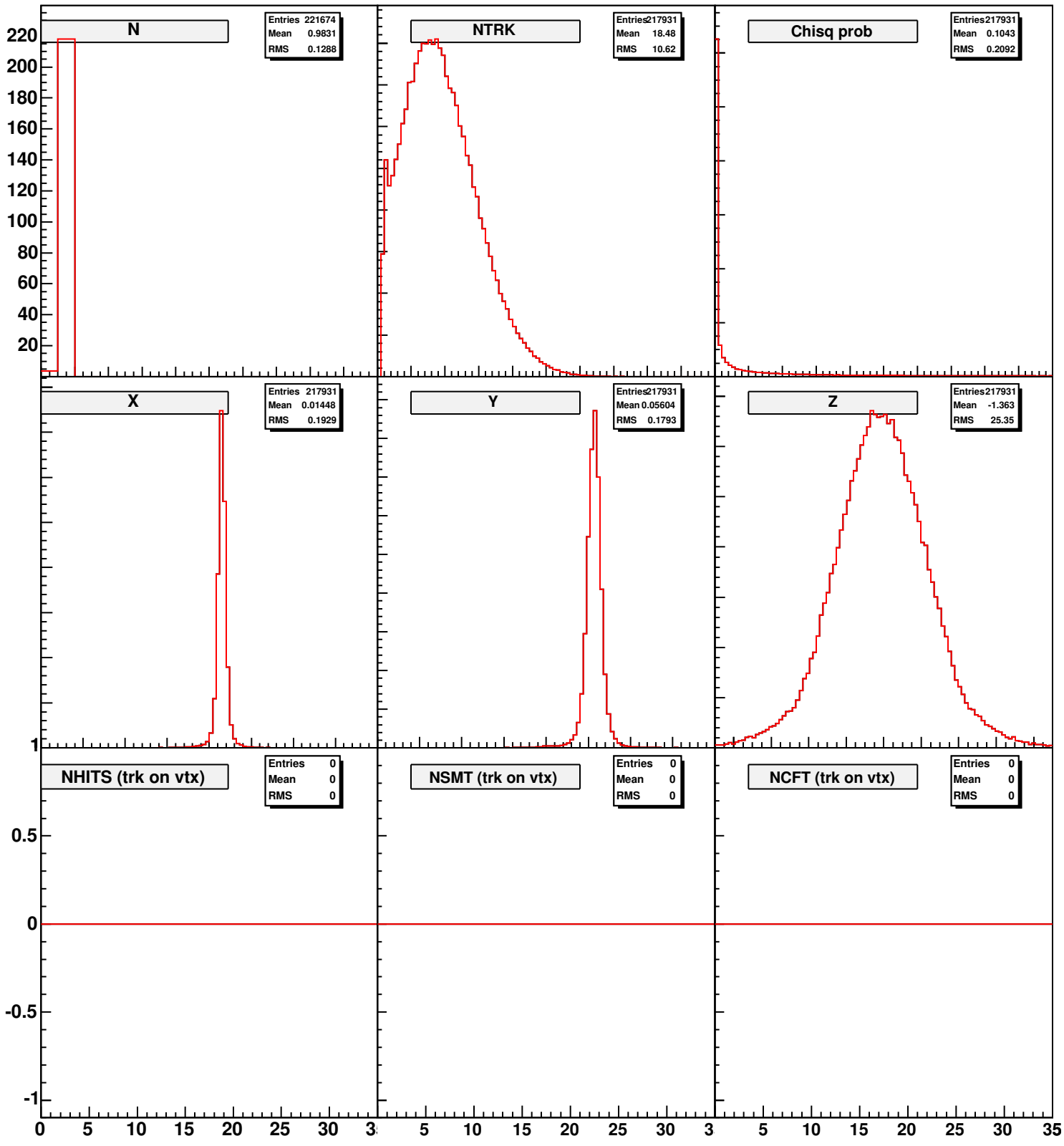


Tracking (Efficiency-Isolated)

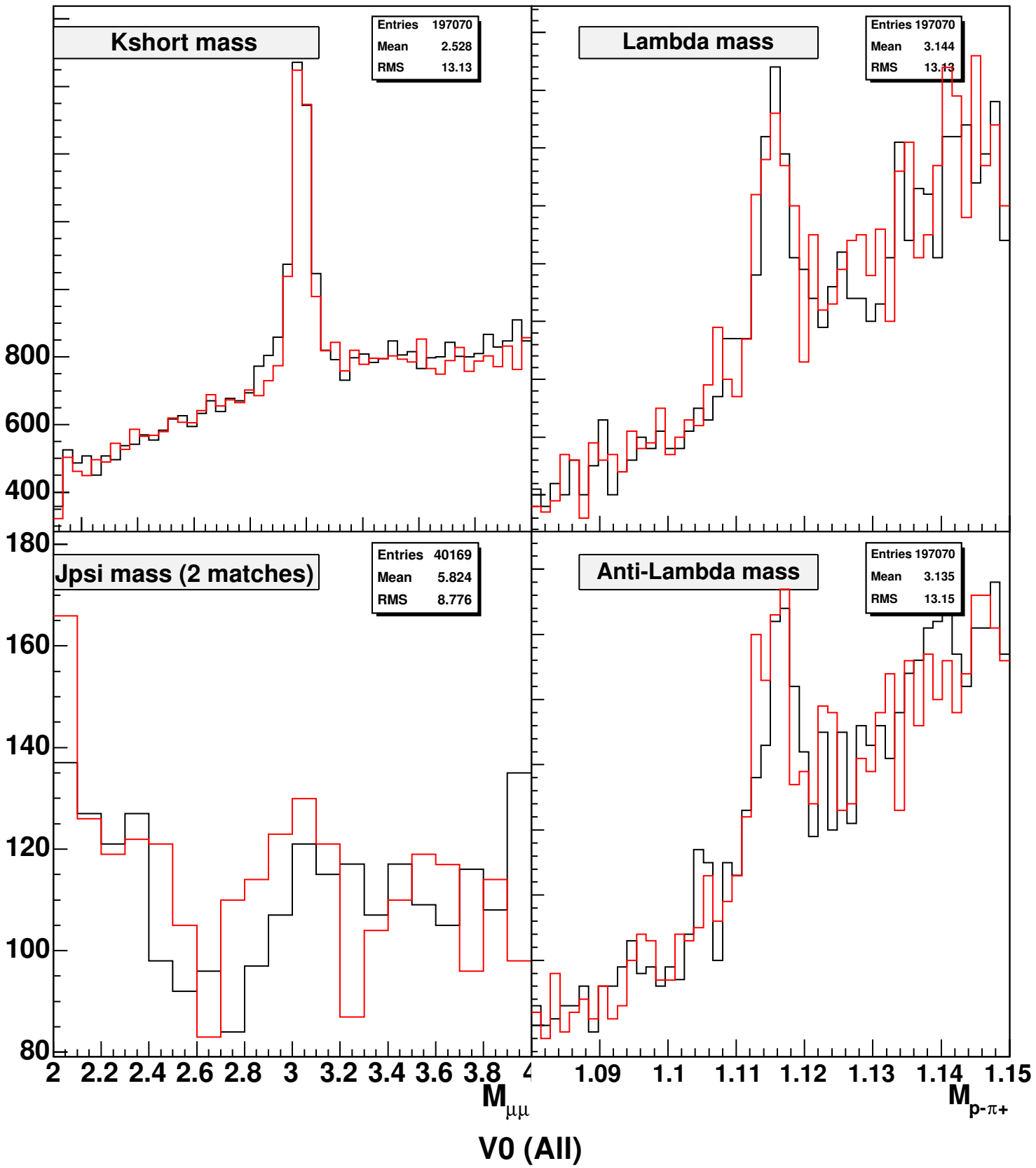


Tracking (Efficiency-InJets)

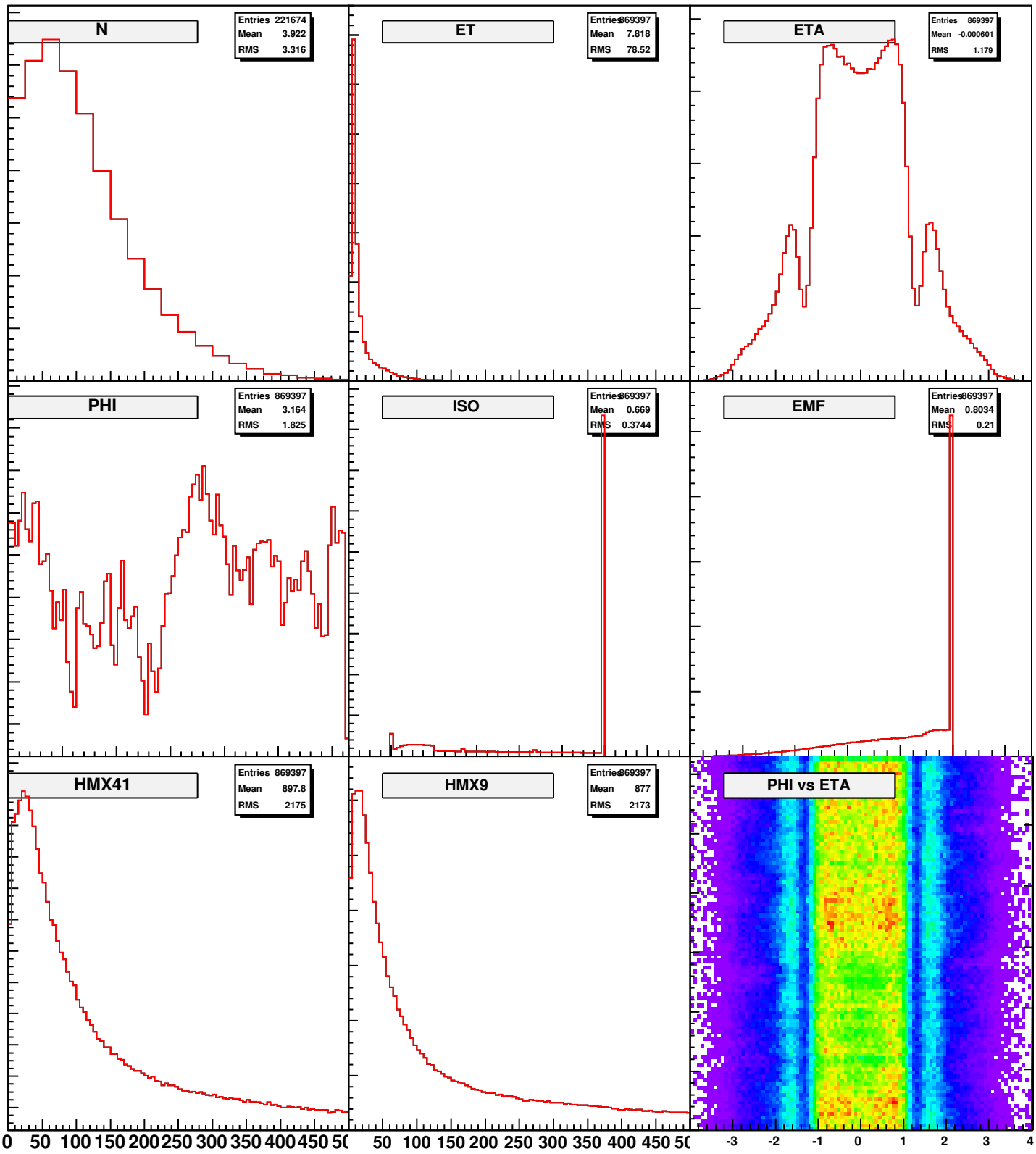

N
Entries 221674
Mean 1.717
RMS 0.9179
NTRK
Entries 380708
Mean 13.93
RMS 10.36
Chisq prob
Entries 380708
Mean 0.1545
RMS 0.2532
X
Entries 380708
Mean 0.01401
RMS 0.3613
Y
Entries 380708
Mean 0.05524
RMS 0.3497
Z
Entries 380708
Mean -1.352
RMS 24.06
NHITS (trk on vtx)
Entries 0
Mean 0
RMS 0
NSMT (trk on vtx)
Entries 0
Mean 0
RMS 0
NCFT (trk on vtx)
Entries 0
Mean 0
RMS 0
Vertices (Primary - all candidates)



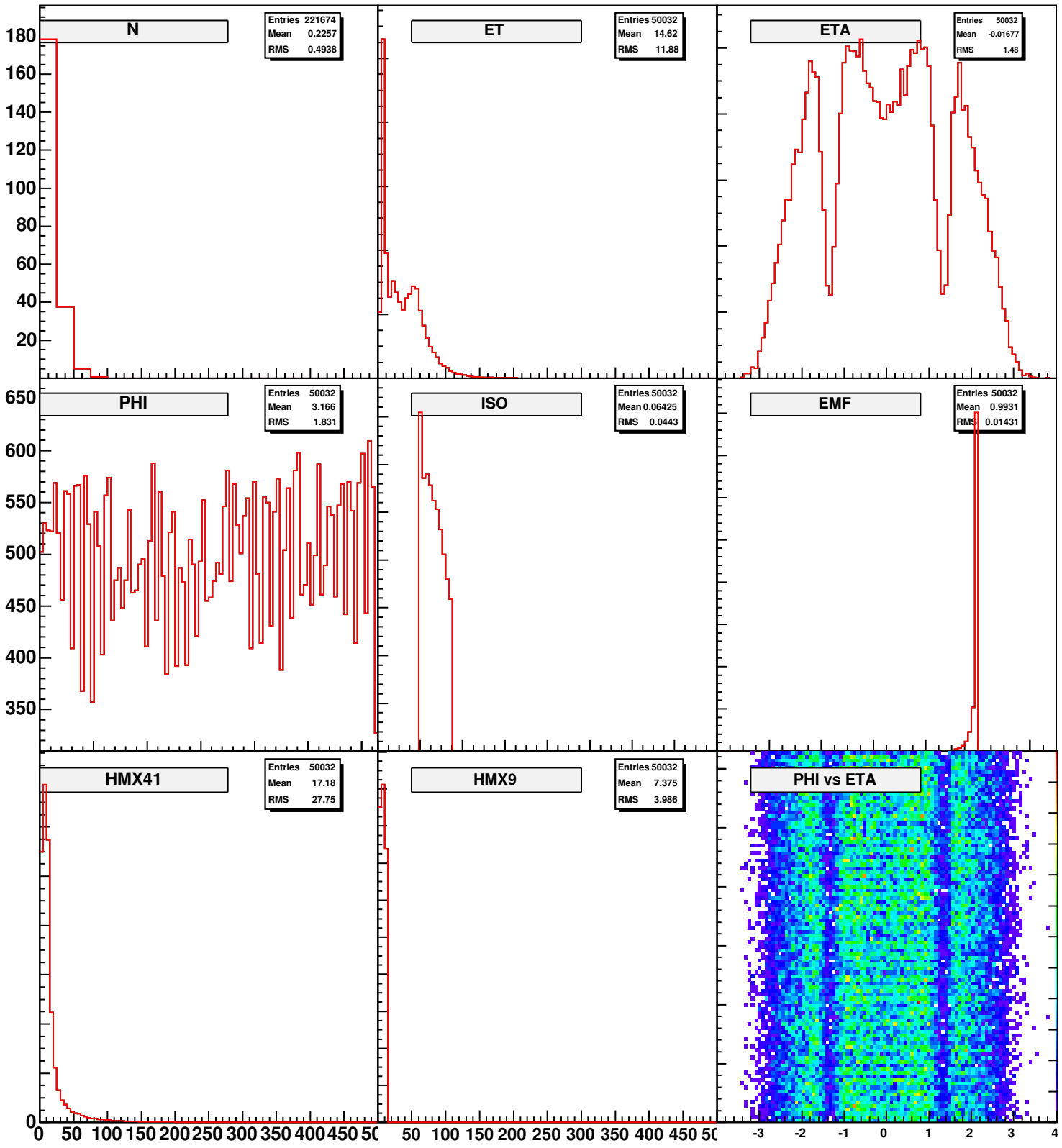
Vertices (Primary - best)


Kshort mass
Entries 197070
Mean 2.528
RMS 13.13
Lambda mass
Entries 197070
Mean 3.144
RMS 13.13
Jpsi mass (2 matches)
Entries 40169
Mean 5.824
RMS 8.776
Anti-Lambda mass
Entries 197070
Mean 3.135
RMS 13.15
800
600
400
180
160
140
120
100
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+

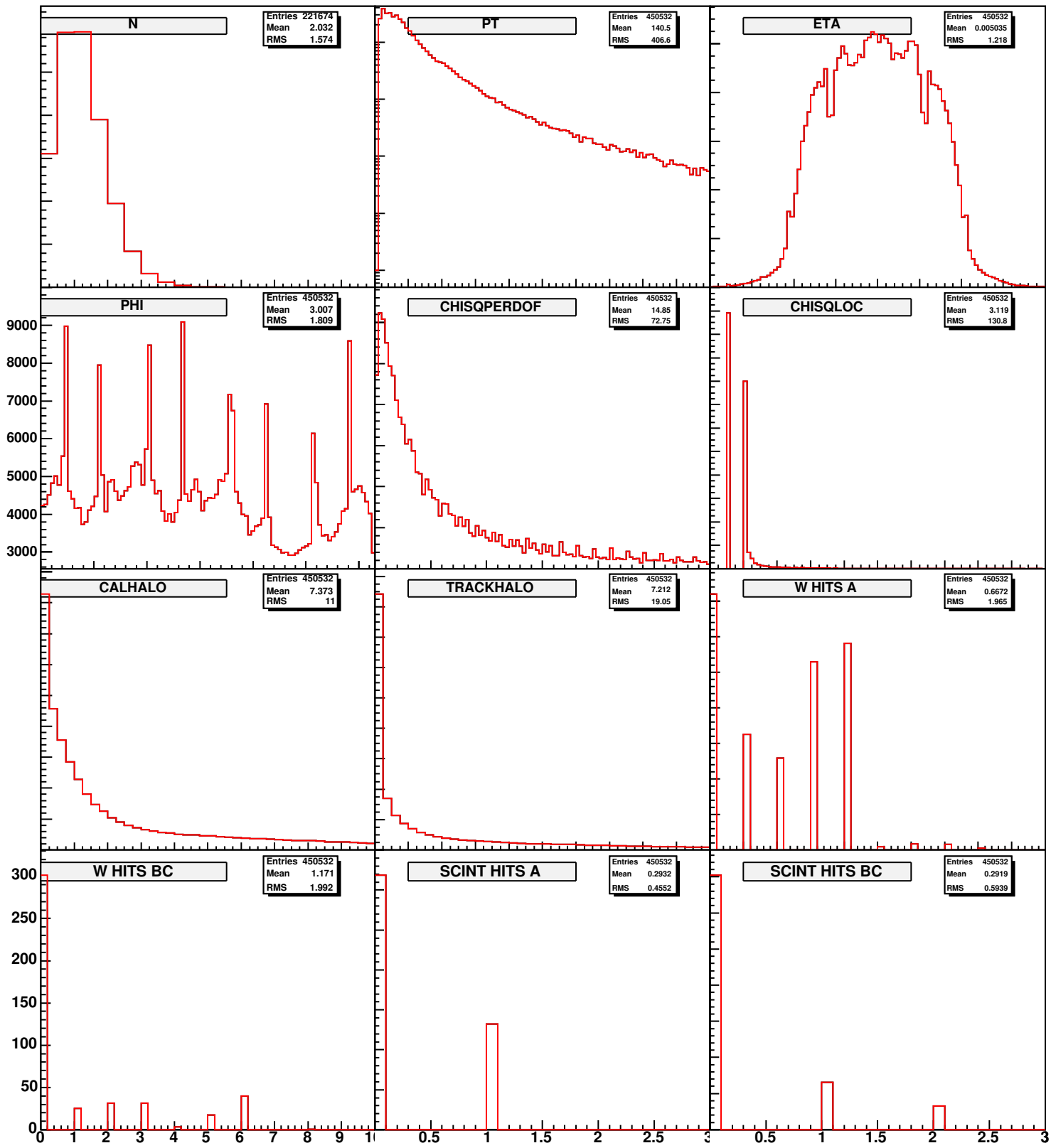
V0 (All)



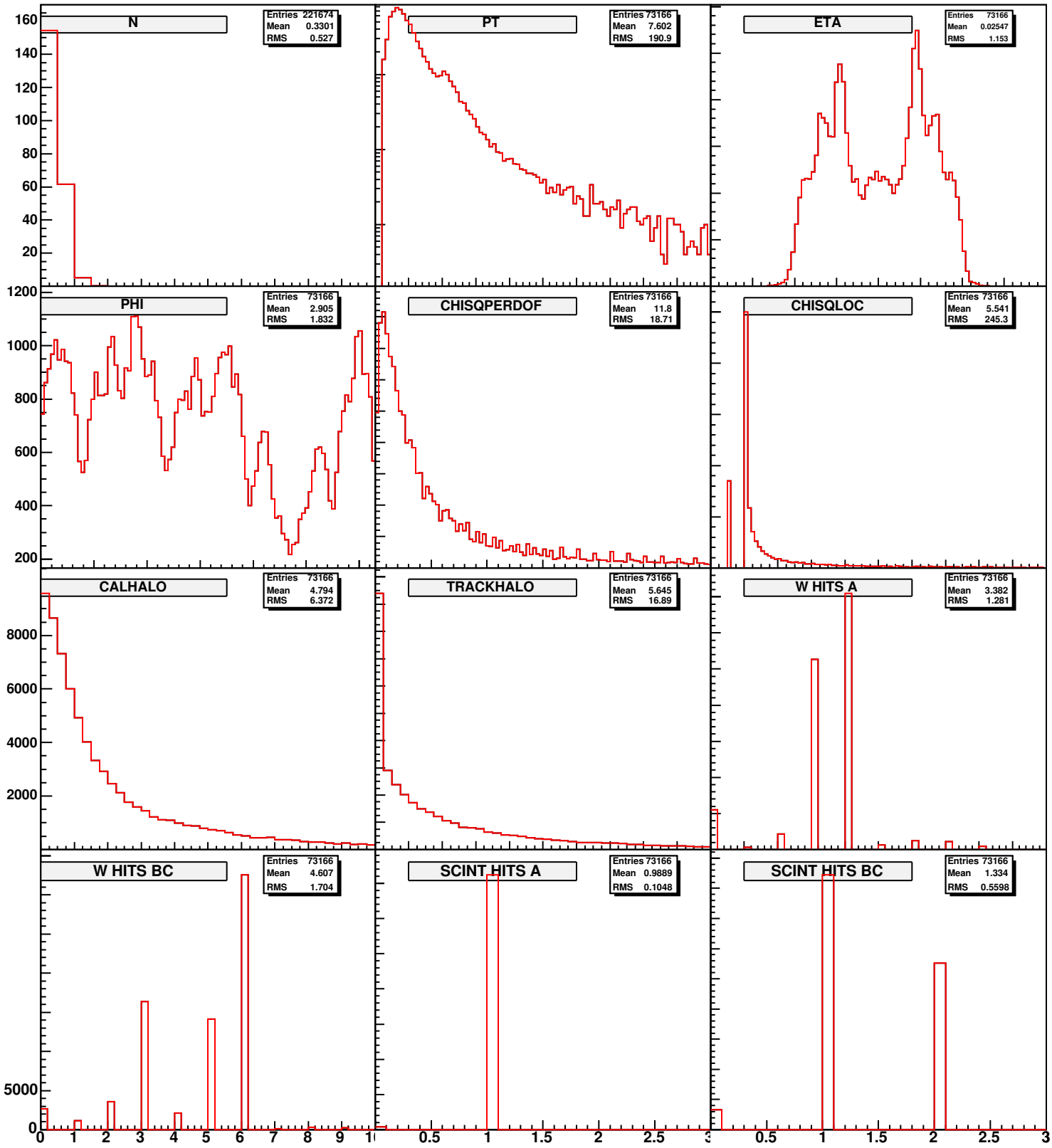
Electrons (SCONE All)



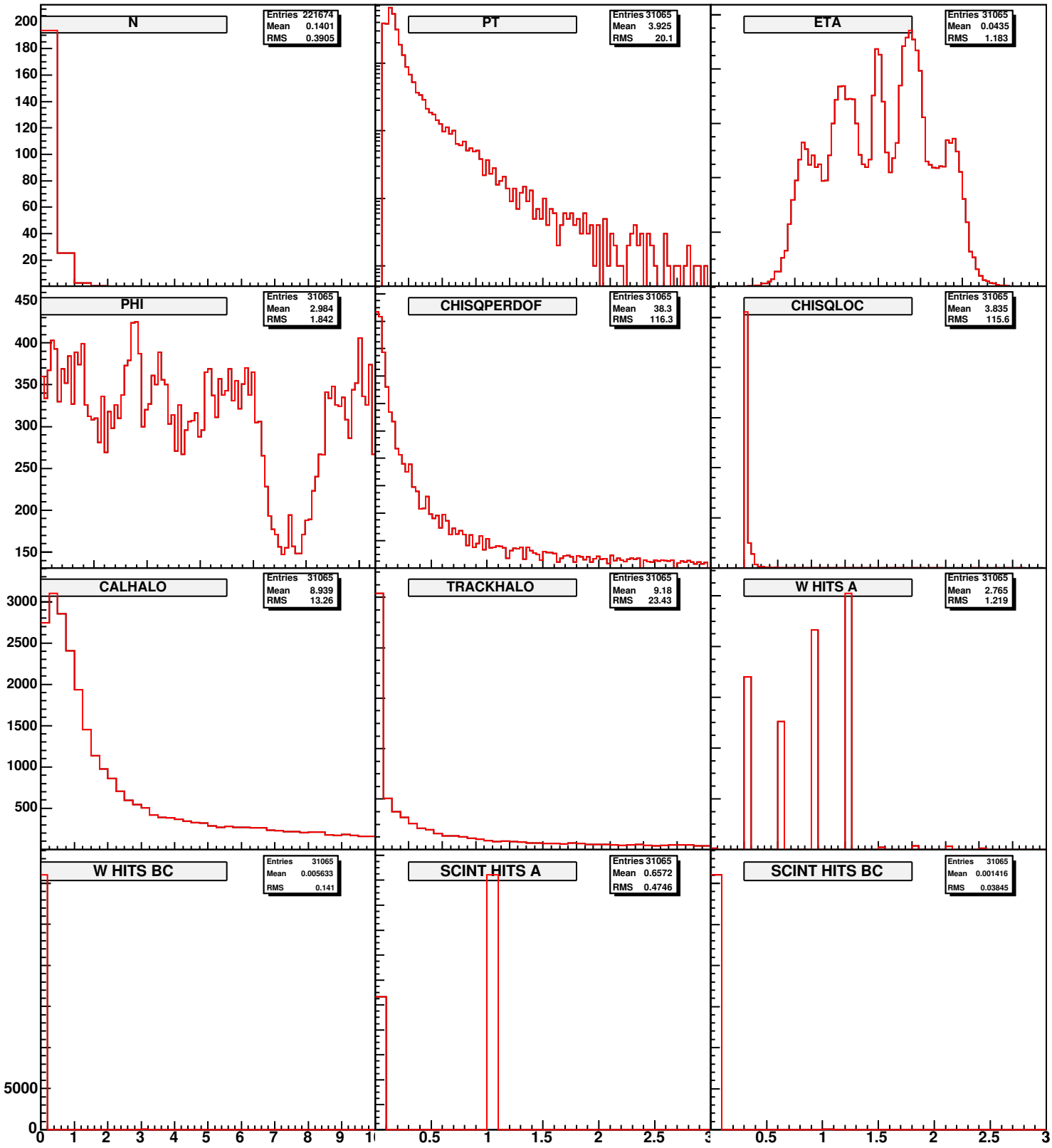
Electrons (SCONE Tight)


N
Entries 221674
Mean 2.032
RMS 1.574
PT
Entries 450532
Mean 140.5
RMS 406.6
ETA
Entries 450532
Mean 0.005035
RMS 1.218
PHI
Entries 450532
Mean 3.007
RMS 1.809
CHISQPERDOF
Entries 450532
Mean 14.85
RMS 72.75
CHISQLOC
Entries 450532
Mean 3.119
RMS 130.8
CALHALO
Entries 450532
Mean 7.373
RMS 11
TRACKHALO
Entries 450532
Mean 7.212
RMS 19.05
W HITS A
Entries 450532
Mean 0.6672
RMS 1.965
W HITS BC
Entries 450532
Mean 1.171
RMS 1.992
SCINT HITS A
Entries 450532
Mean 0.2932
RMS 0.4552
SCINT HITS BC
Entries 450532
Mean 0.2919
RMS 0.5939

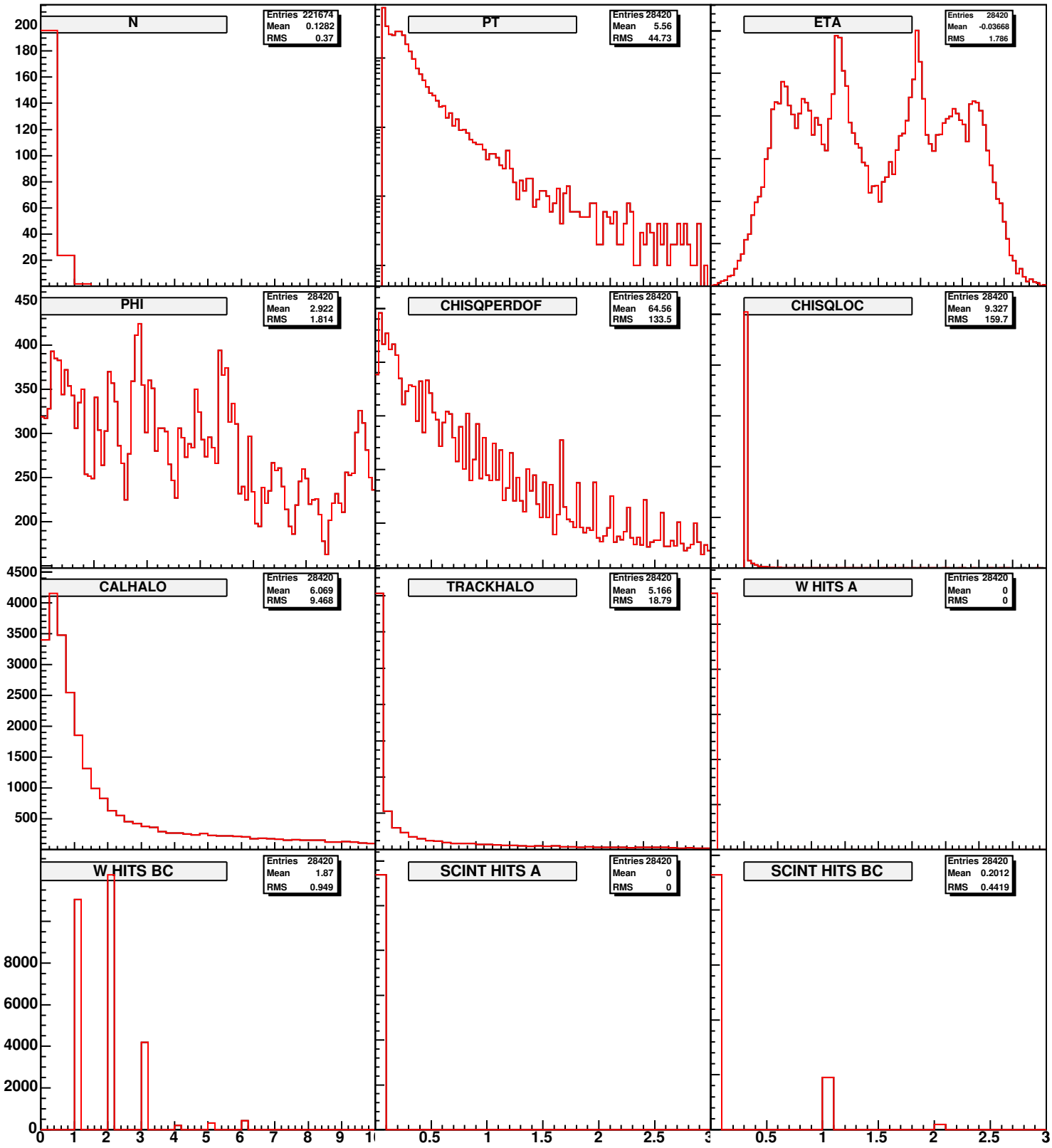
Muons (All)



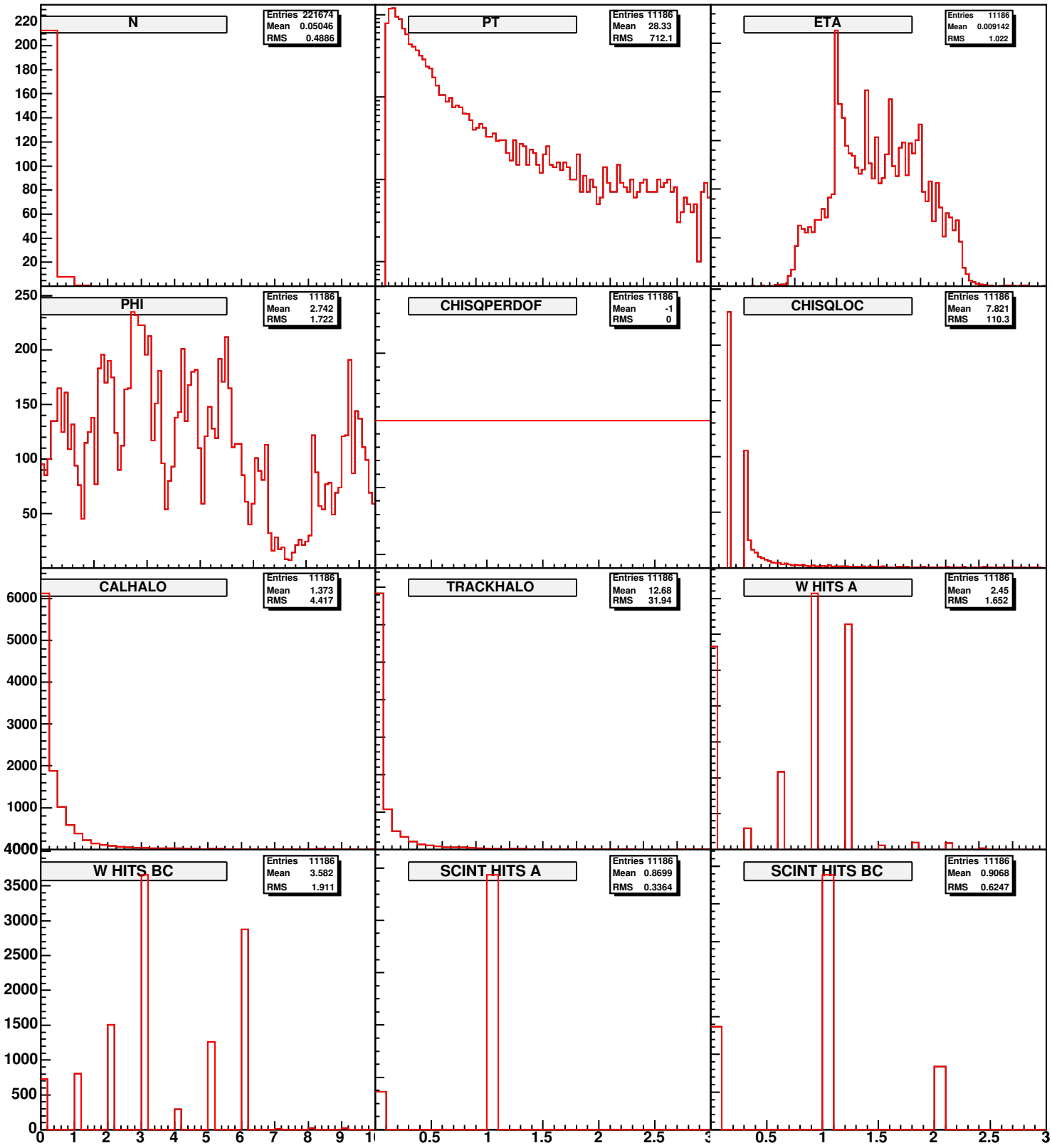
Muons (Matched)


N
Entries 221674
Mean 0.1401
RMS 0.3905
PT
Entries 31065
Mean 3.925
RMS 20.1
ETA
Entries 31065
Mean 0.0435
RMS 1.183
PHI
Entries 31065
Mean 2.984
RMS 1.842
CHISQPERDOF
Entries 31065
Mean 38.3
RMS 116.3
CHISQLOC
Entries 31065
Mean 3.835
RMS 115.6
CALHALO
Entries 31065
Mean 8.939
RMS 13.26
TRACKHALO
Entries 31065
Mean 9.18
RMS 23.43
W HITS A
Entries 31065
Mean 2.765
RMS 1.219
W HITS BC
Entries 31065
Mean 0.005633
RMS 0.141
SCINT HITS A
Entries 31065
Mean 0.6572
RMS 0.4746
SCINT HITS BC
Entries 31065
Mean 0.001416
RMS 0.03845

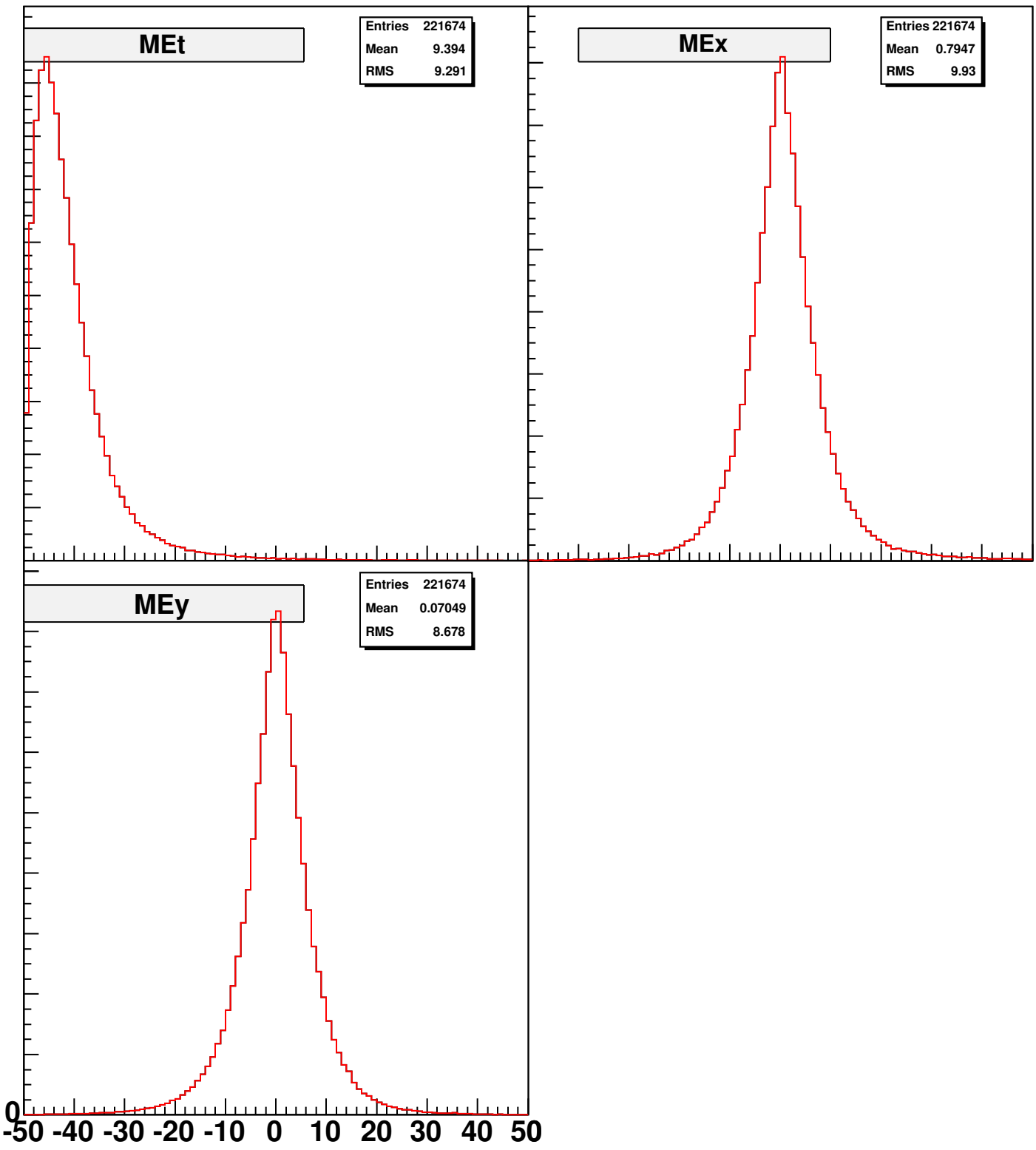
Muons (Astub)

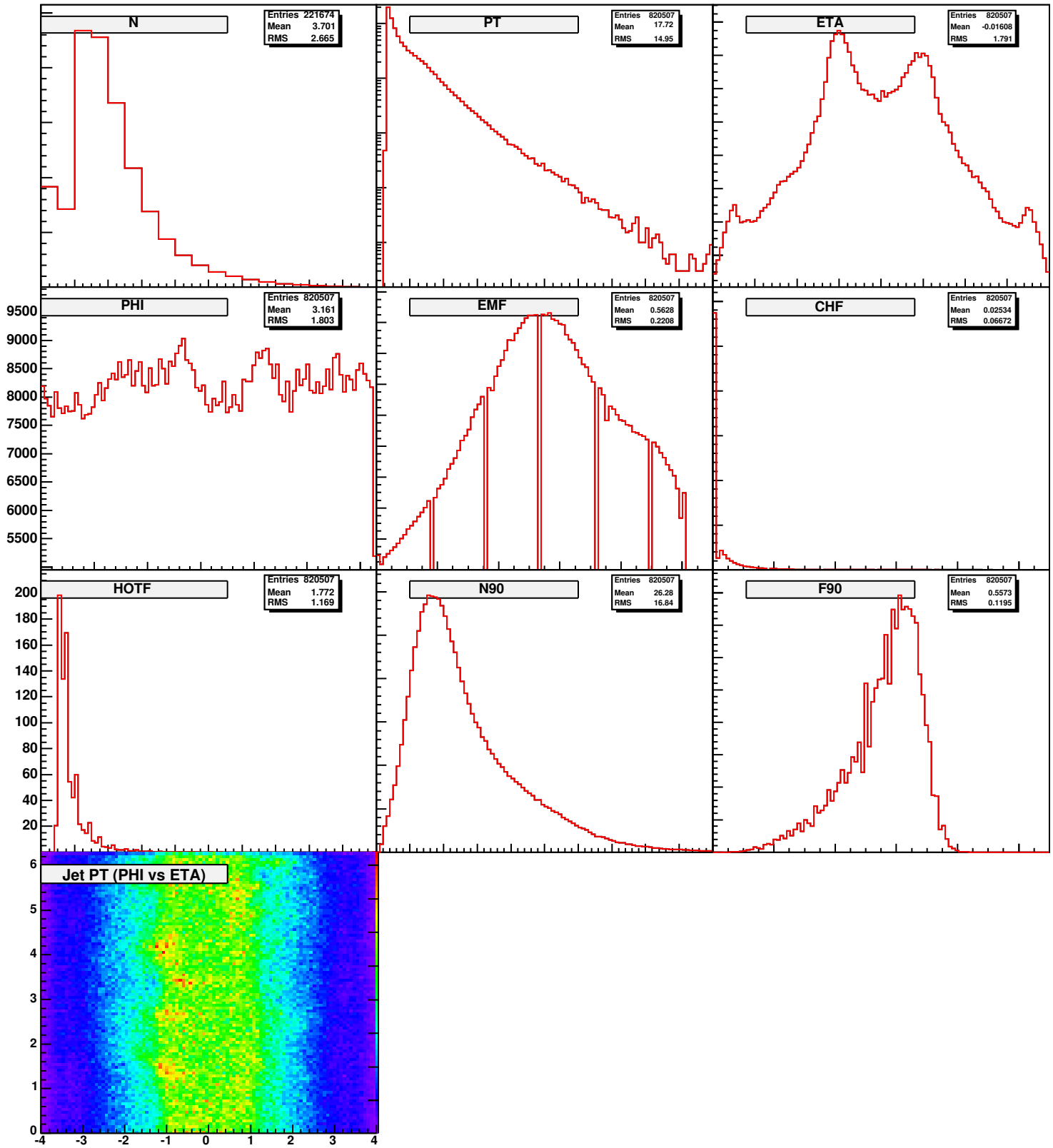


Muons (BCstub)

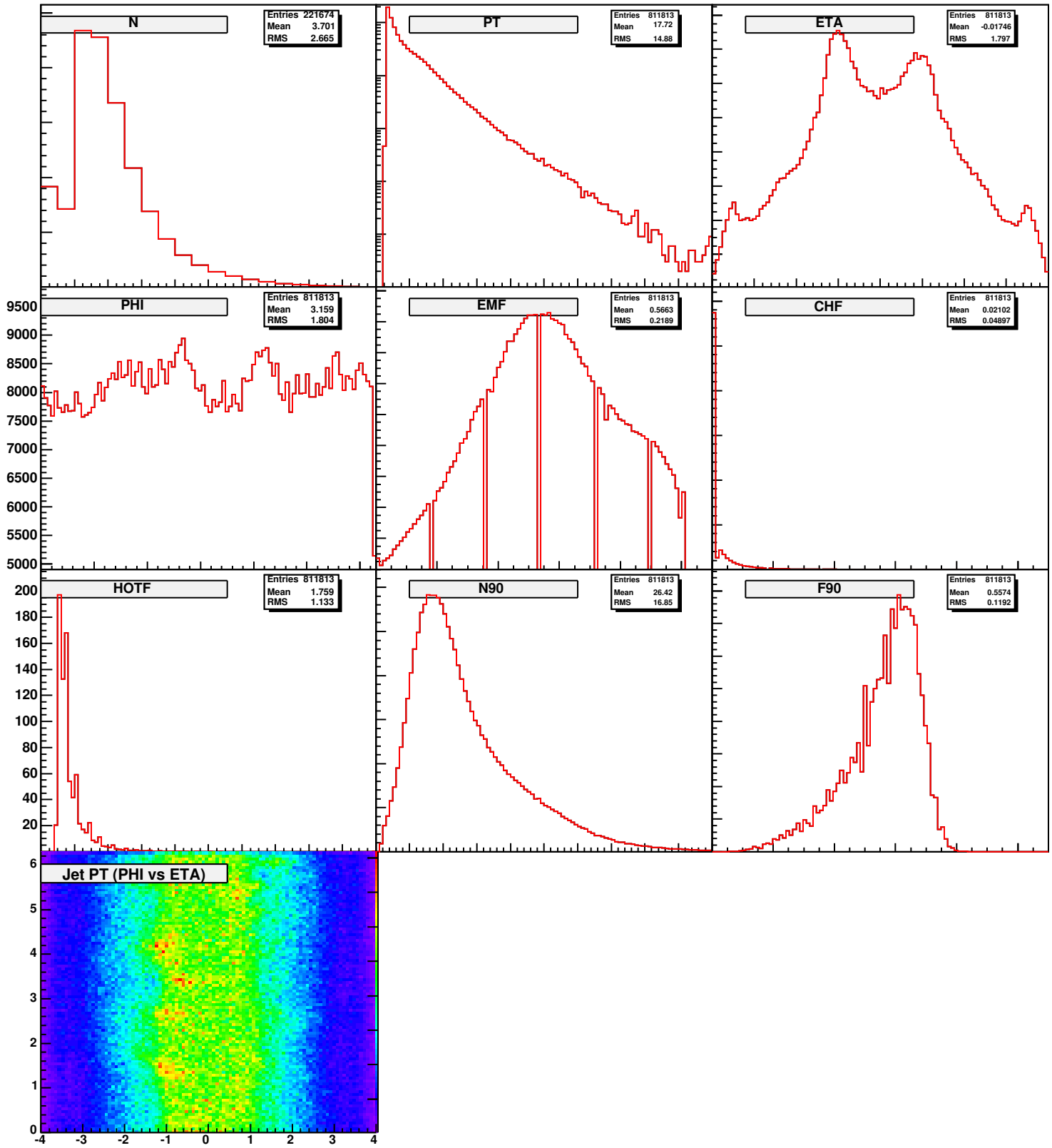


Muons (Unmatched)

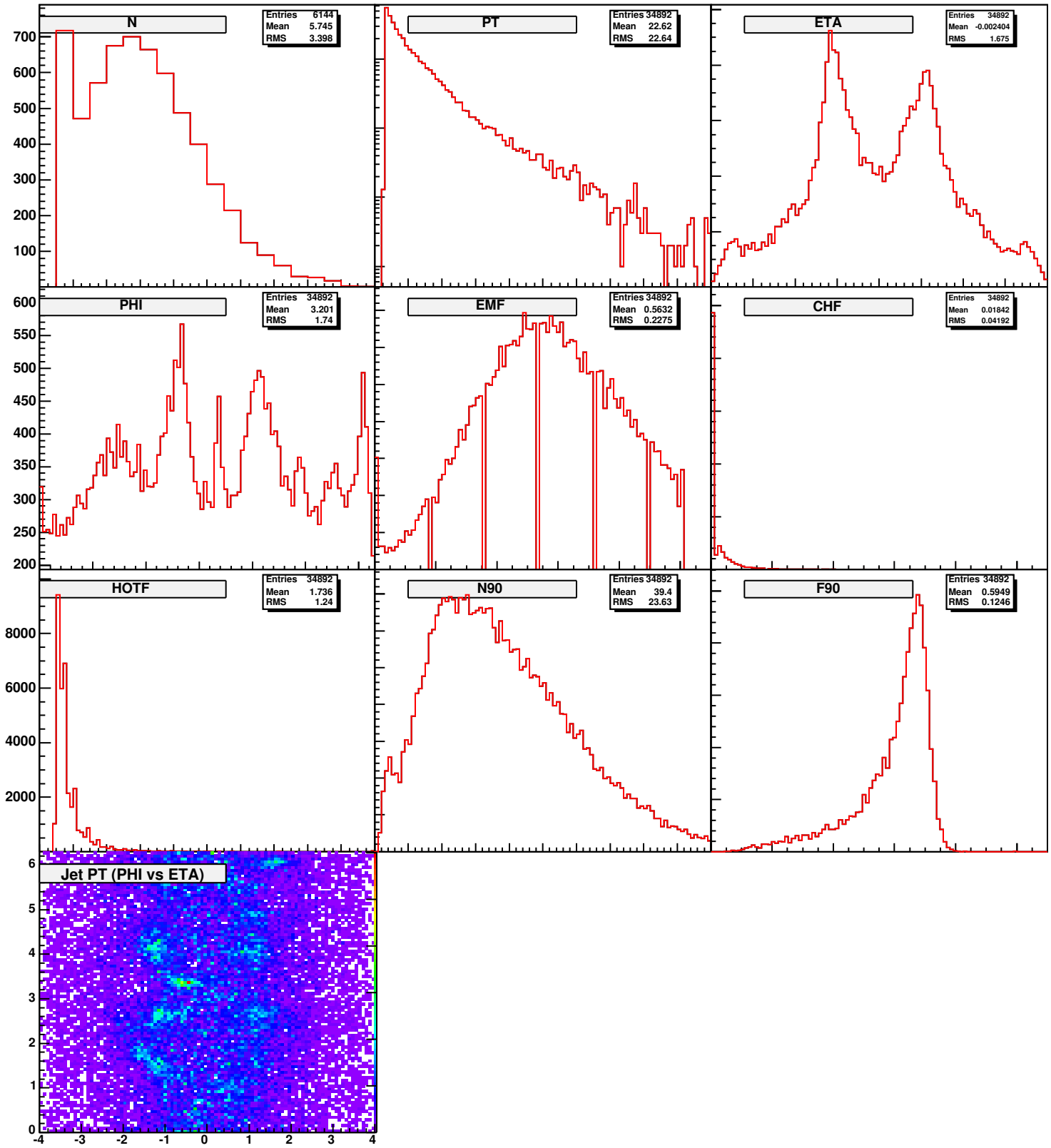

MEt
Entries 221674
Mean 9.394
RMS 9.291
MEx
Entries 221674
Mean 0.7947
RMS 9.93
MEy
Entries 221674
Mean 0.07049
RMS 8.678
0
-50 -40 -30 -20 -10 0 10 20 30 40 50
Met (No cuts)



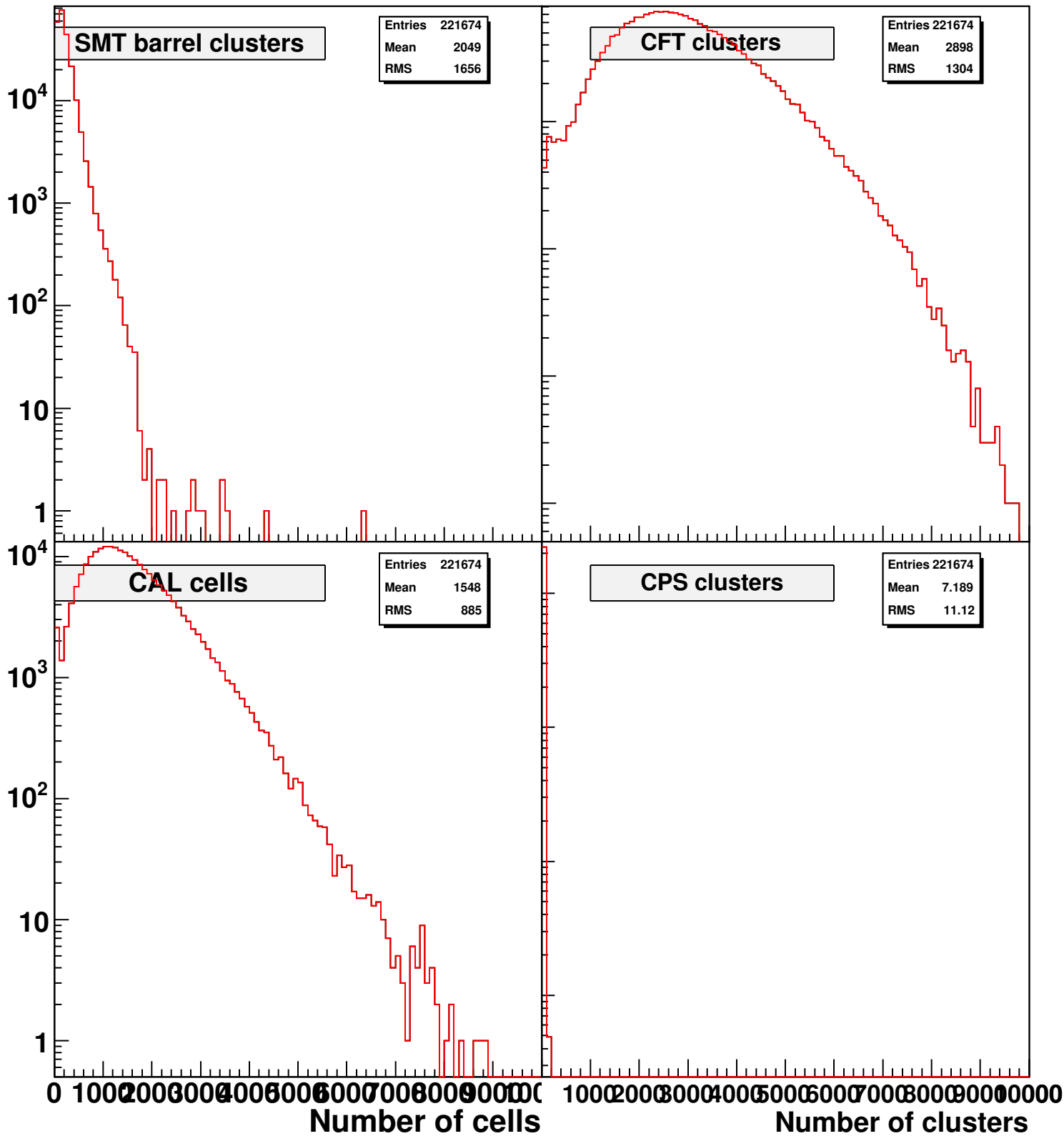
Jets (Cone R 0.7 (no cuts))

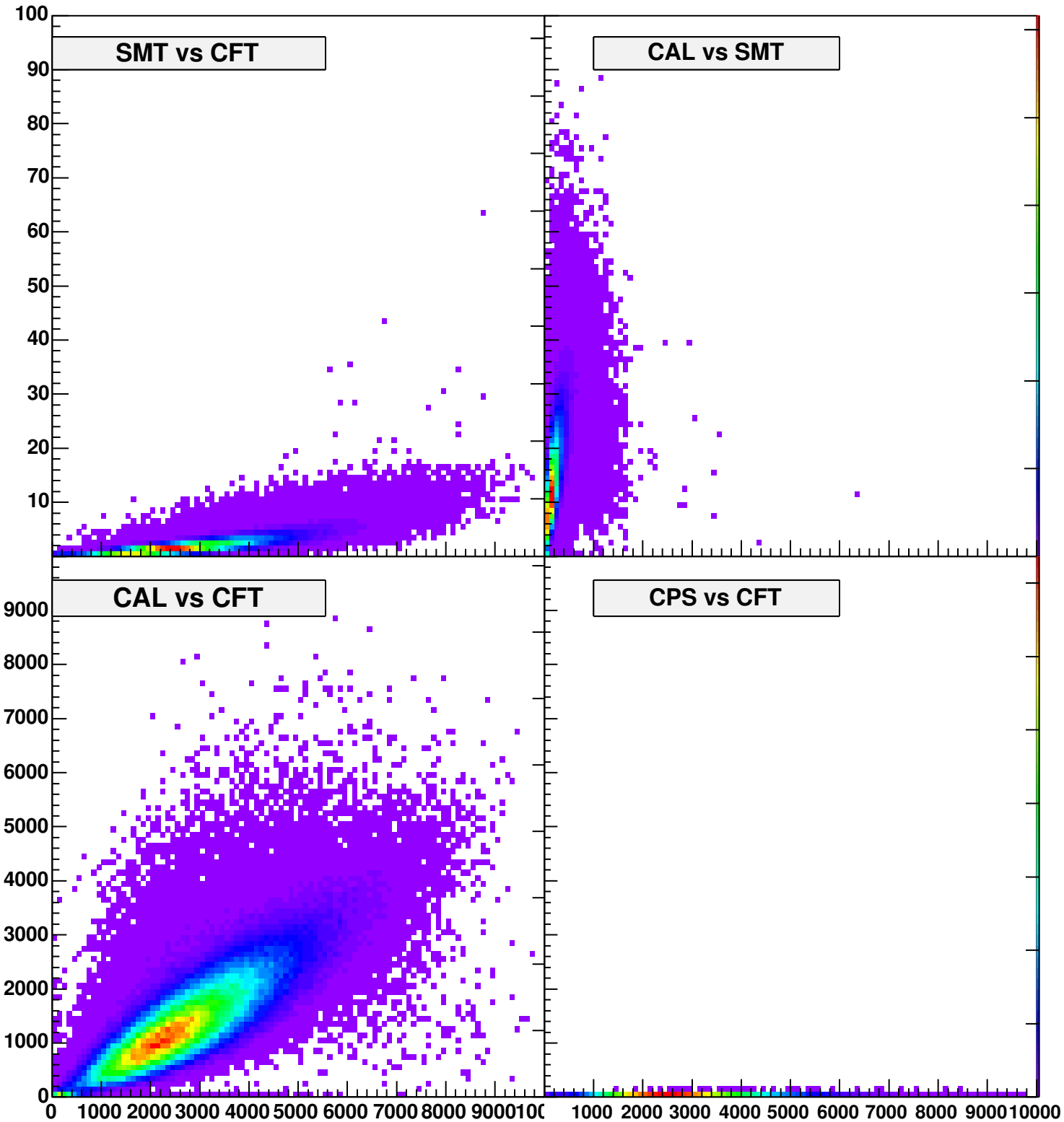


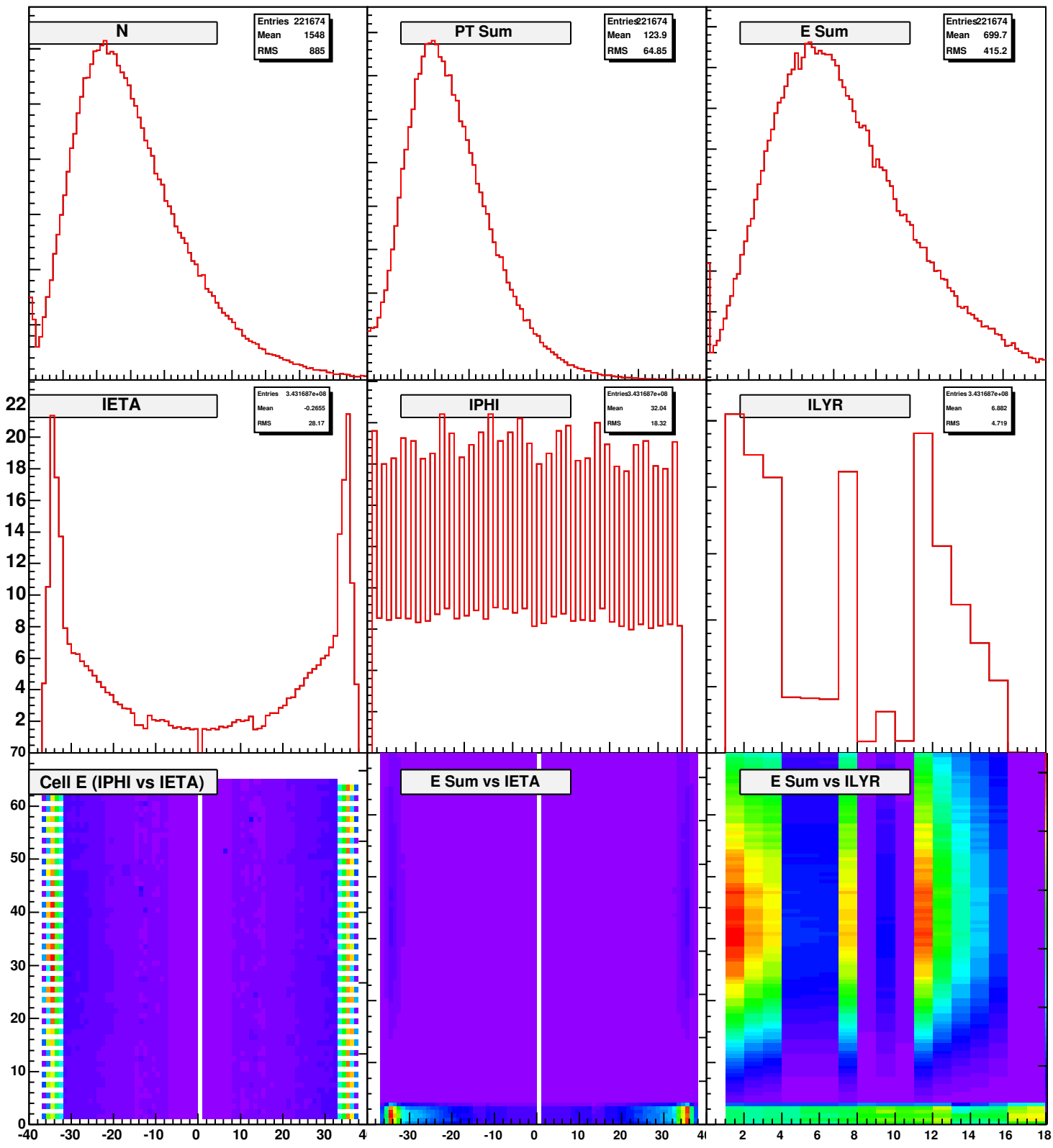
Jets (Cone R 0.7 (standard cuts))



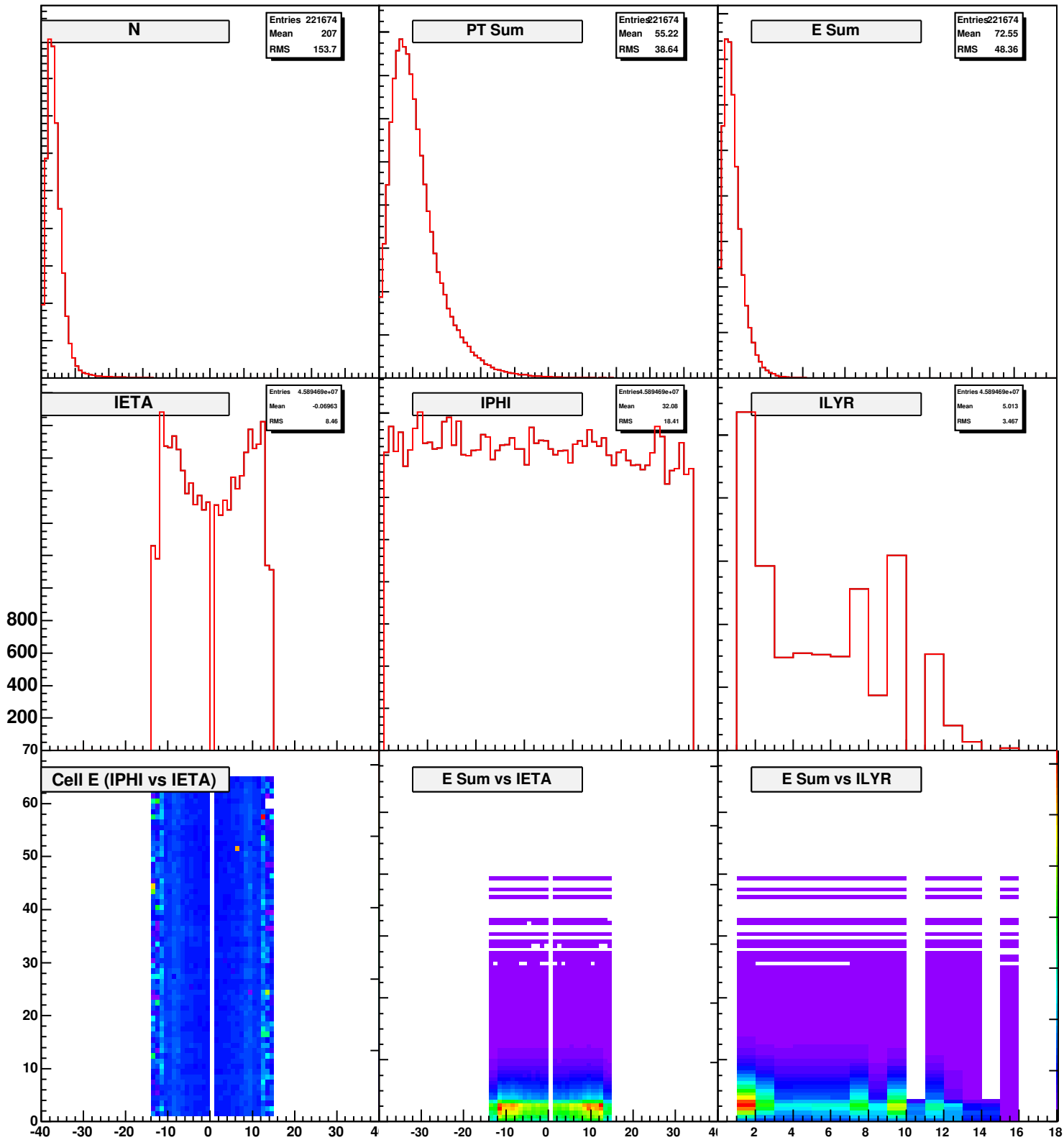
Jets (Cone R 0.7 (standard cuts, MET>30))


SMT barrel clusters
Entries 221674
Mean 2049
RMS 1656
CFT clusters
Entries 221674
Mean 2898
RMS 1304
CAL cells
Entries 221674
Mean 1548
RMS 885
CPS clusters
Entries 221674
Mean 7.189
RMS 11.12
Number of cells
Number of clusters
Detector Occupancy (Detector)

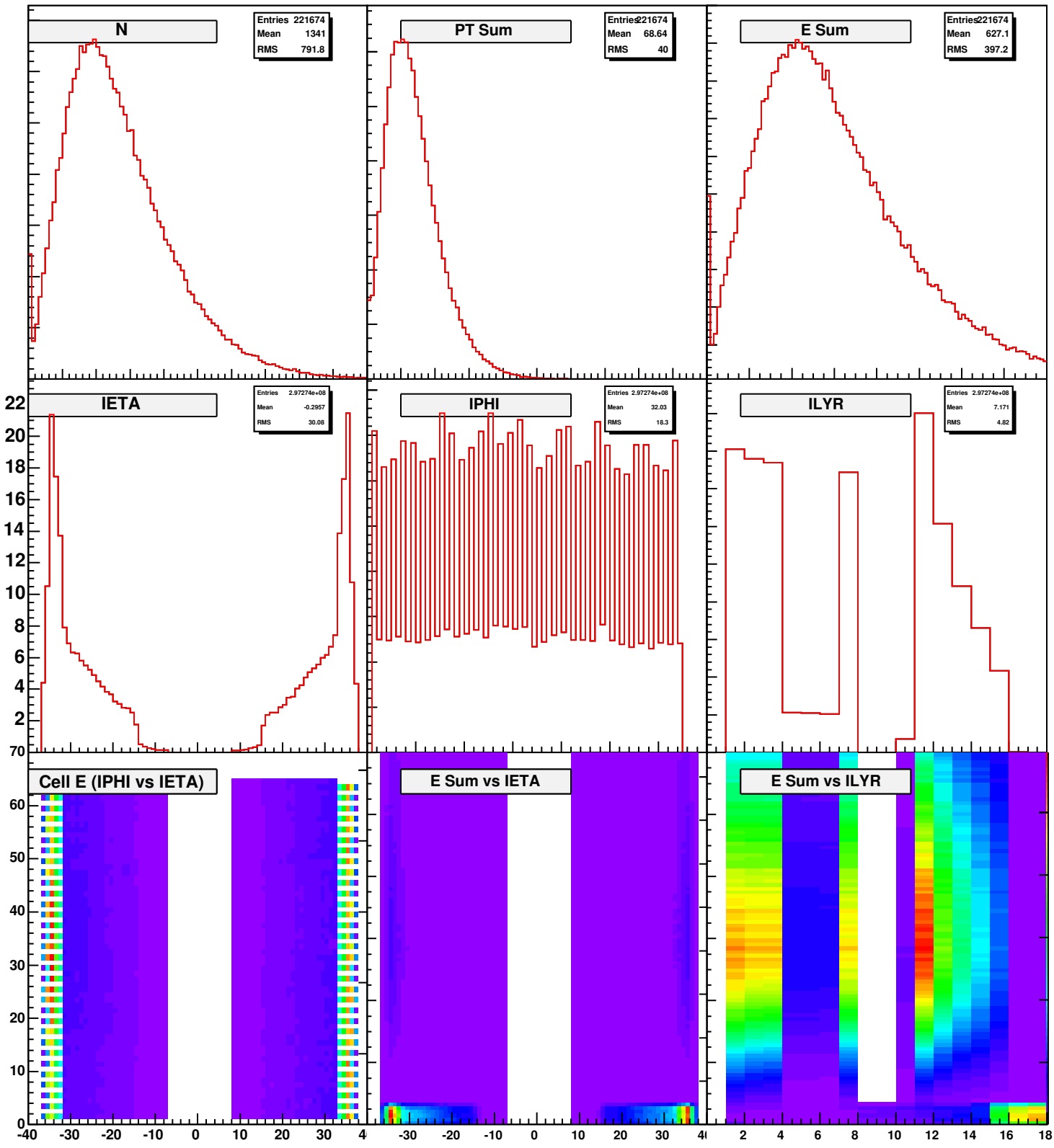

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
100
90
80
70
60
50
40
30
20
10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Detector Occupancy (Detector)



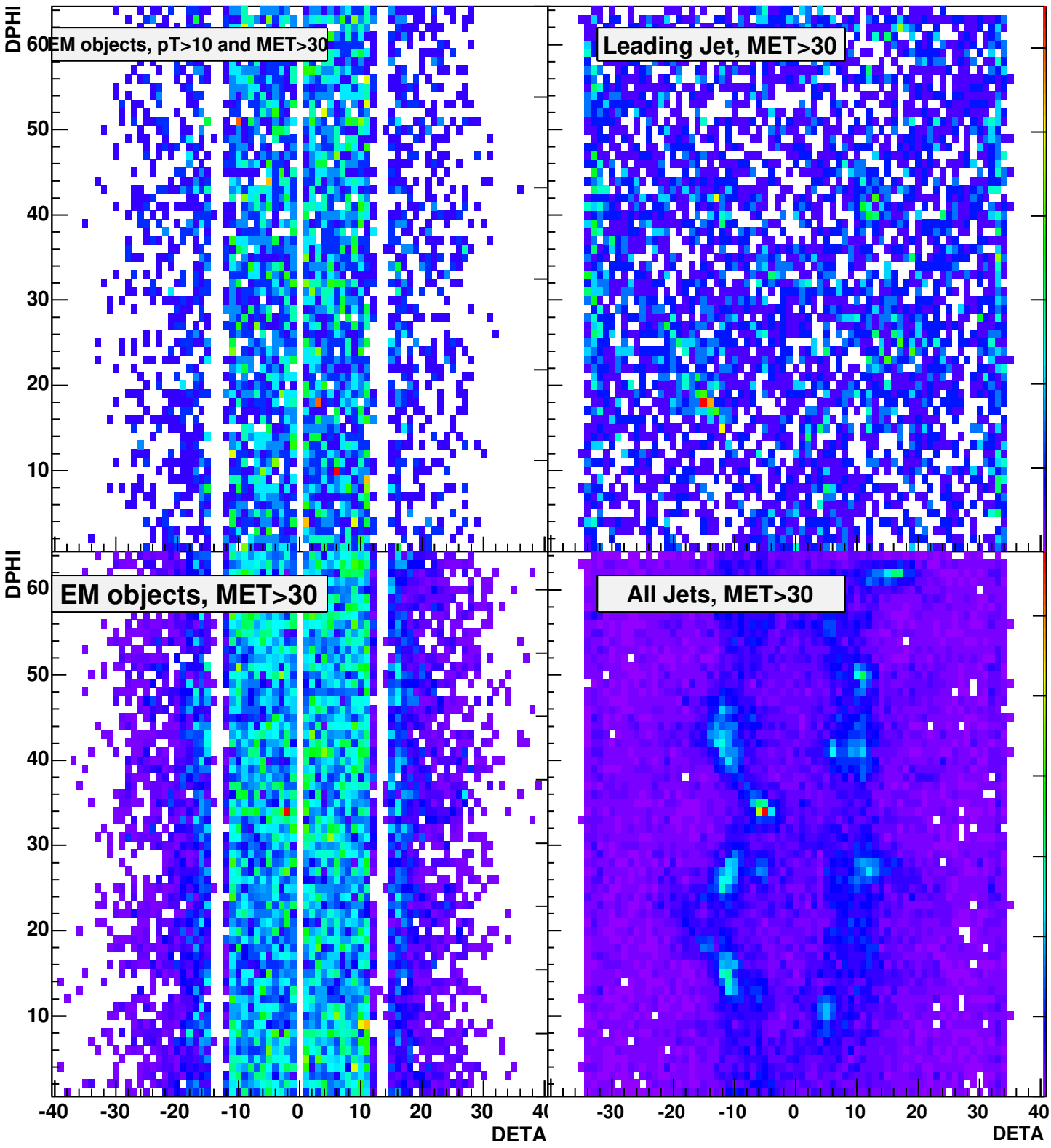
Calorimeter (All cells)



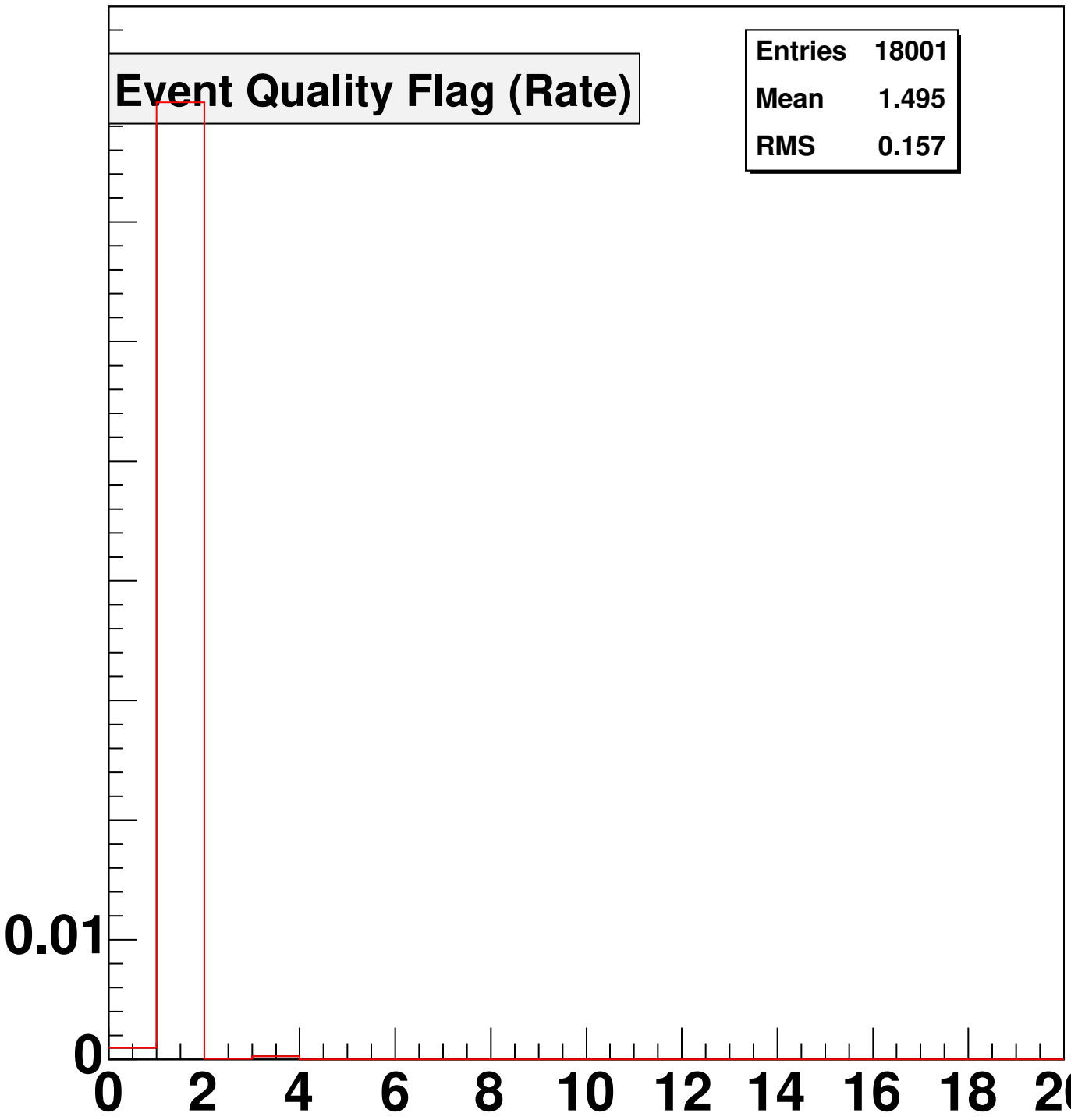
Calorimeter (All CC cells)

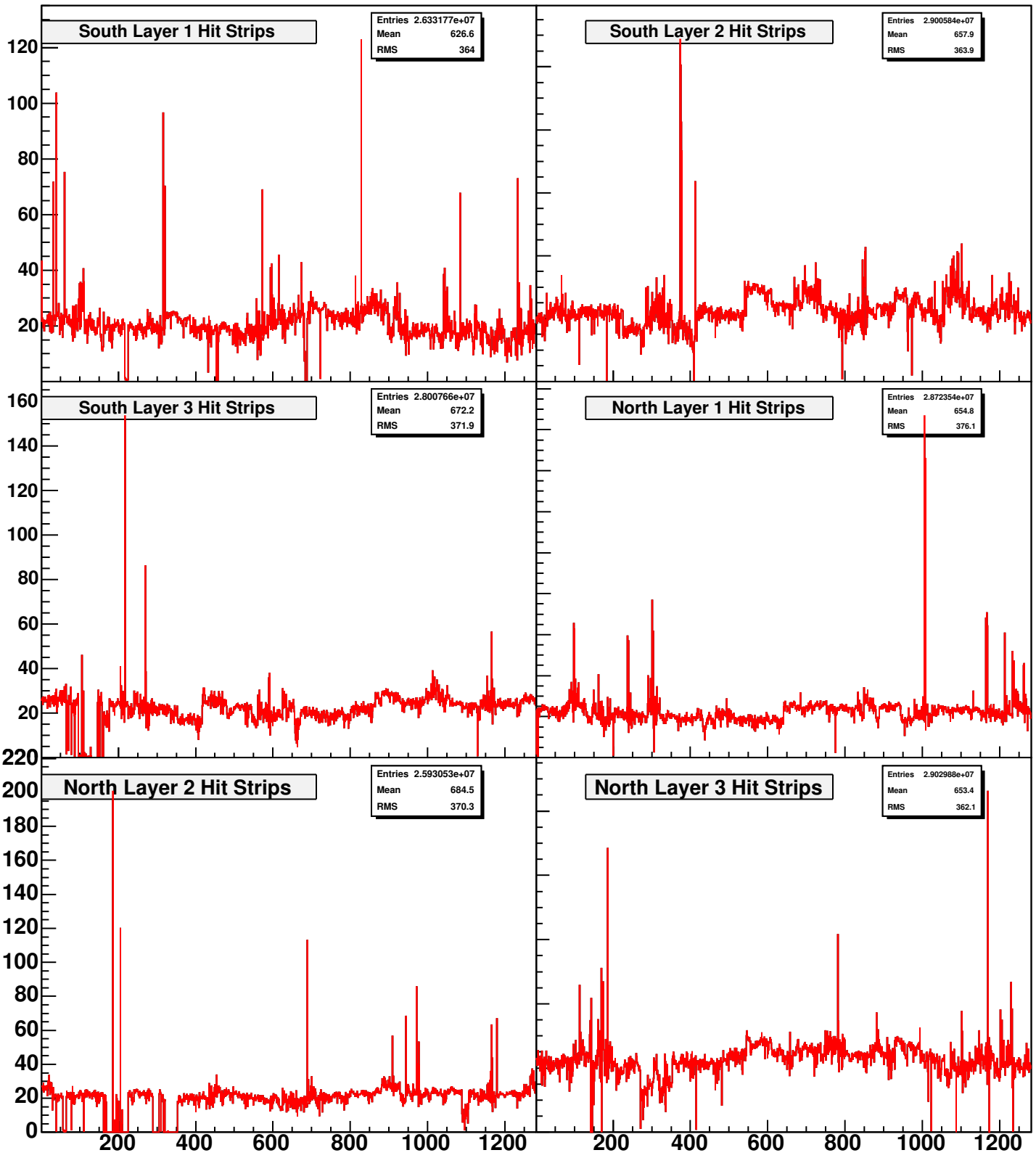


Calorimeter (All EC cells)

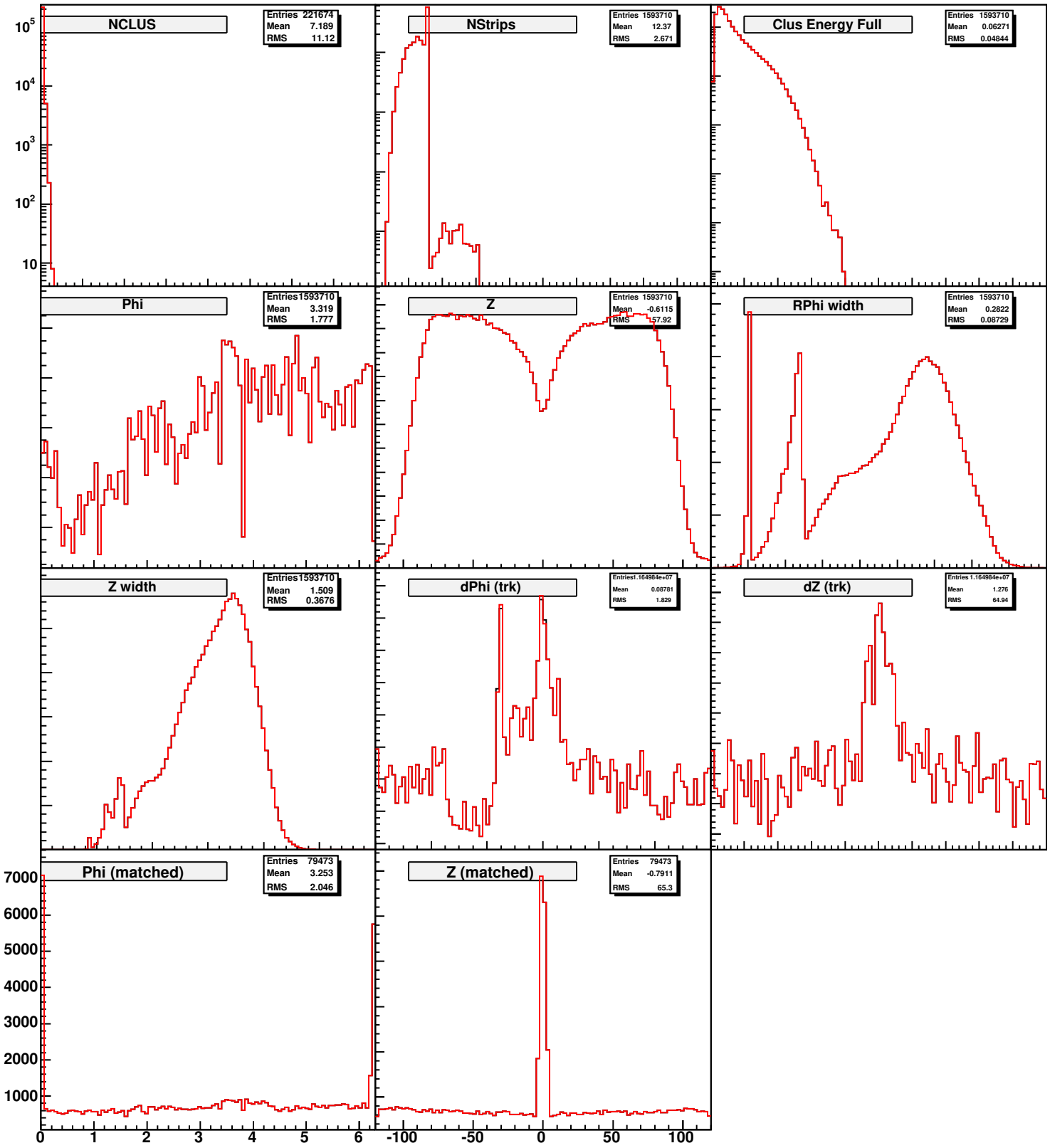


Cal Objects with MET>30 (All cells)

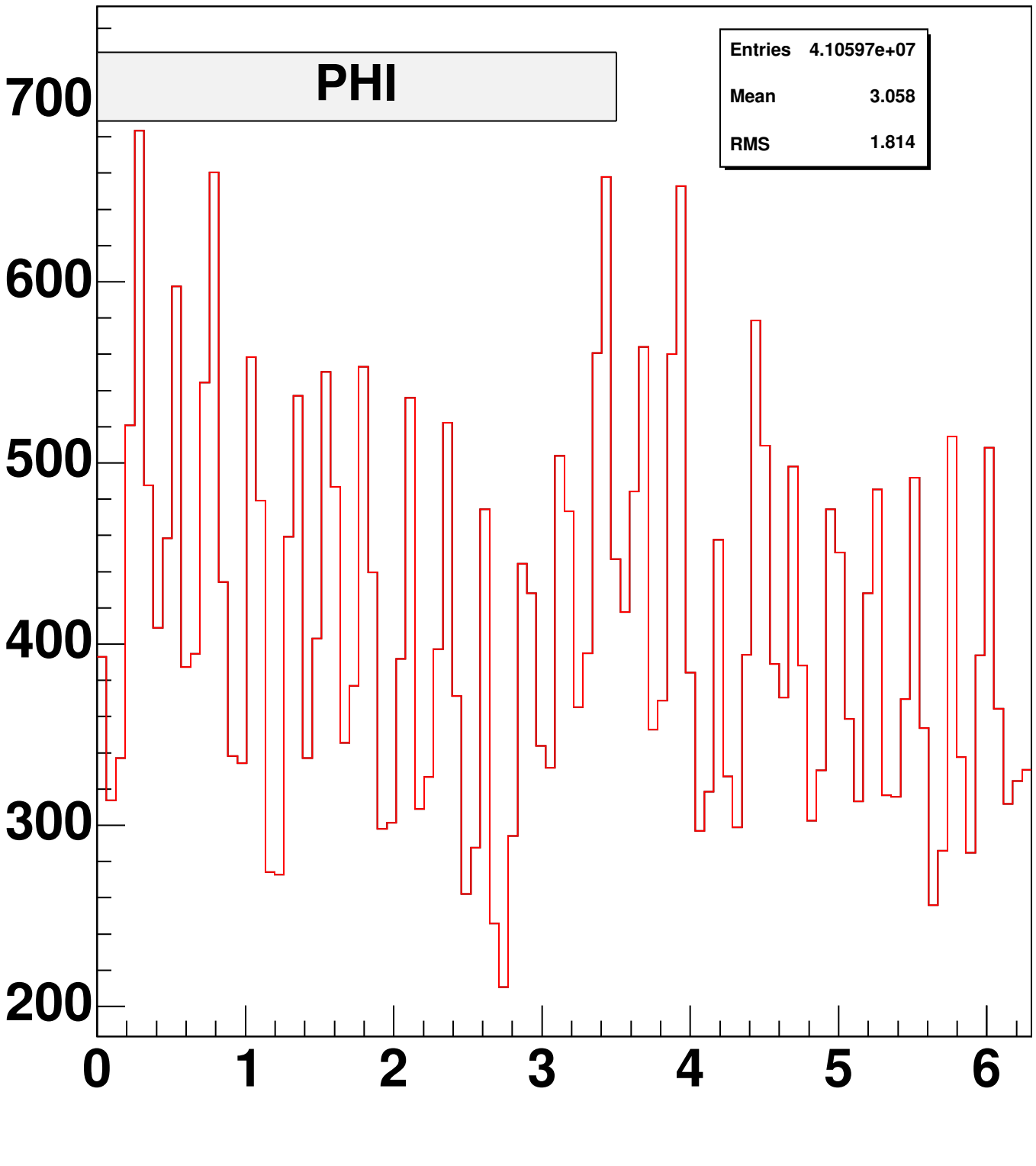

Event Quality Flag (Rate)
Entries 18001
Mean 1.495
RMS 0.157
0.01
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

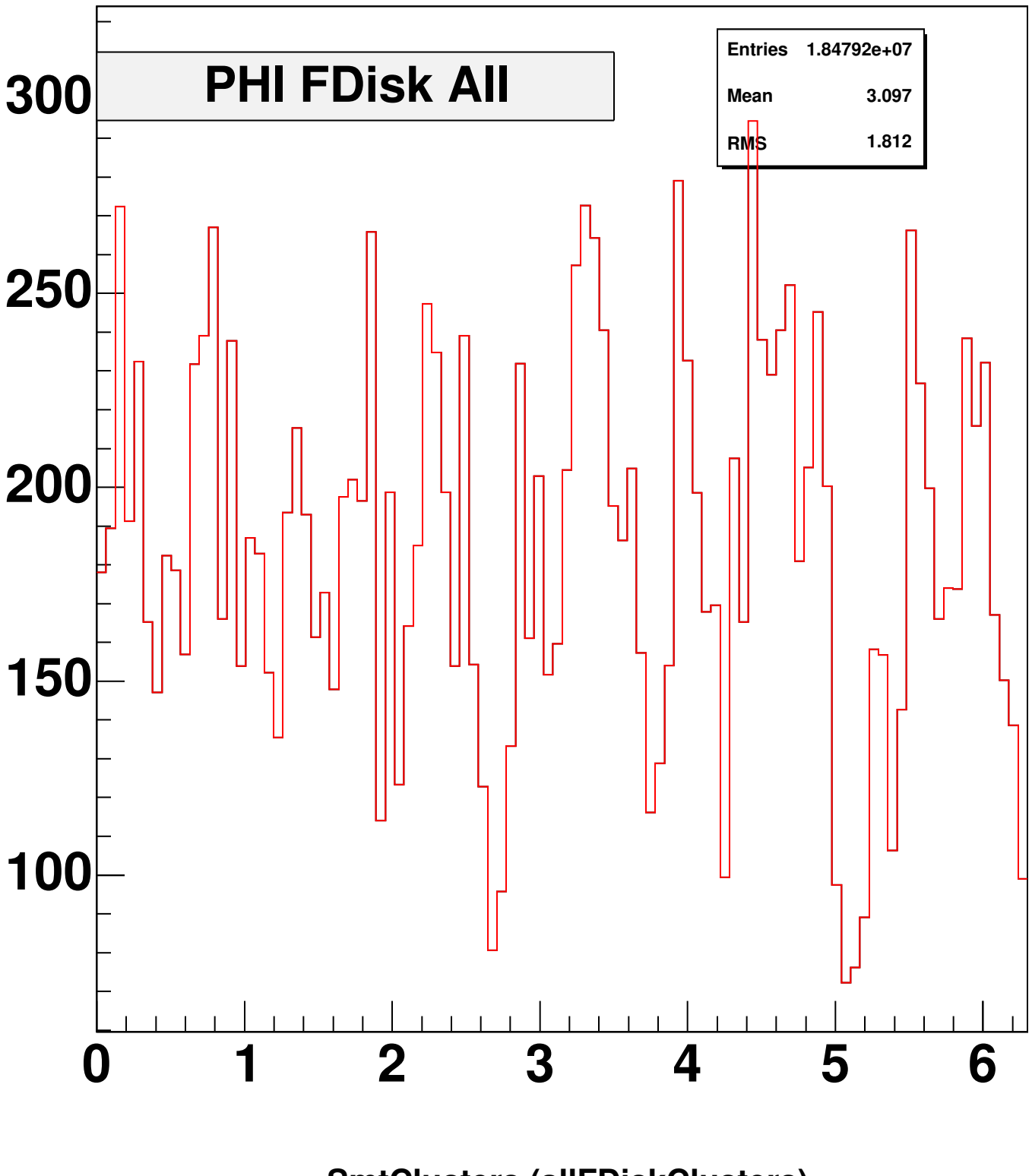


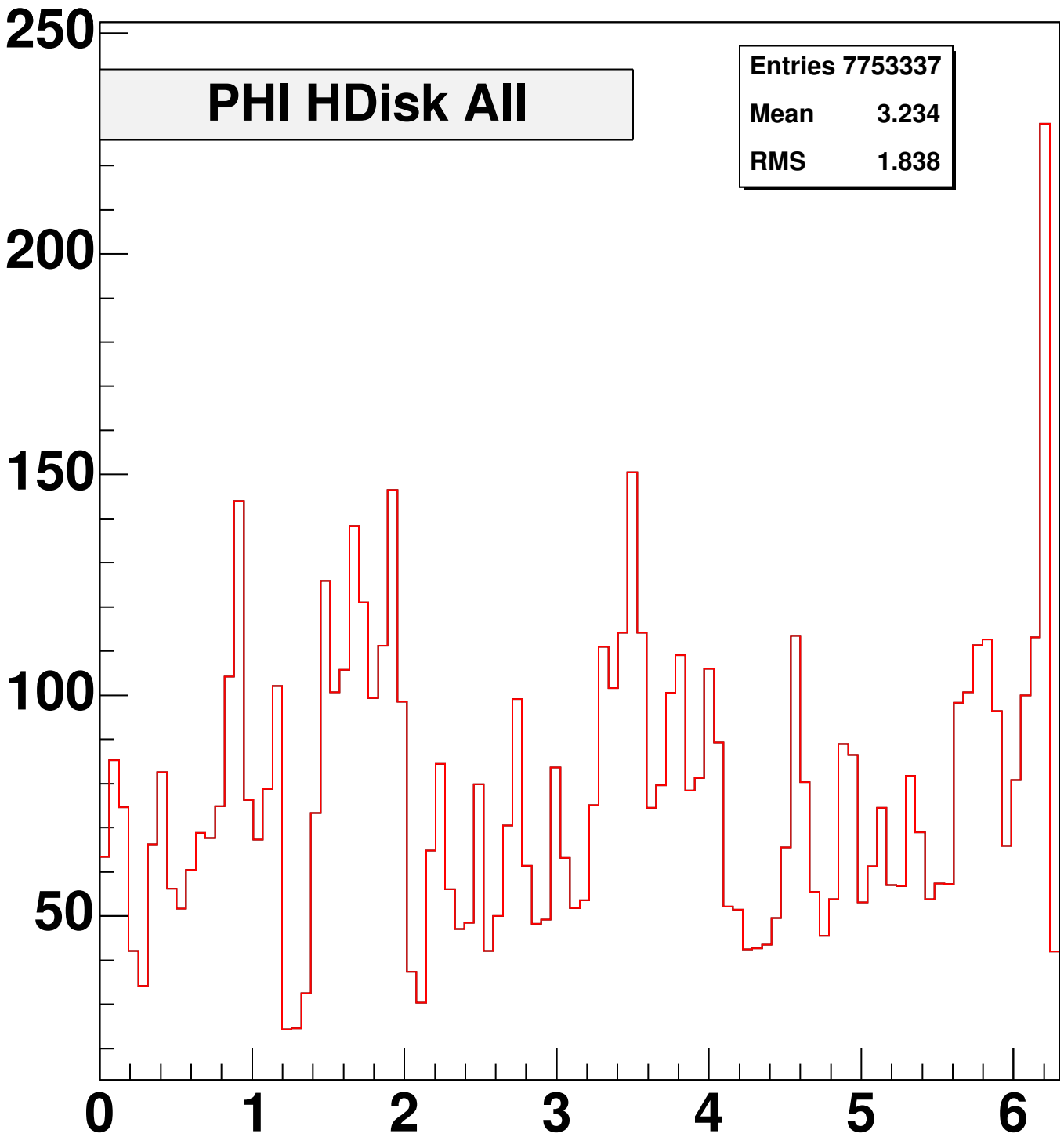
CPS Hit Strips (All Clusters)

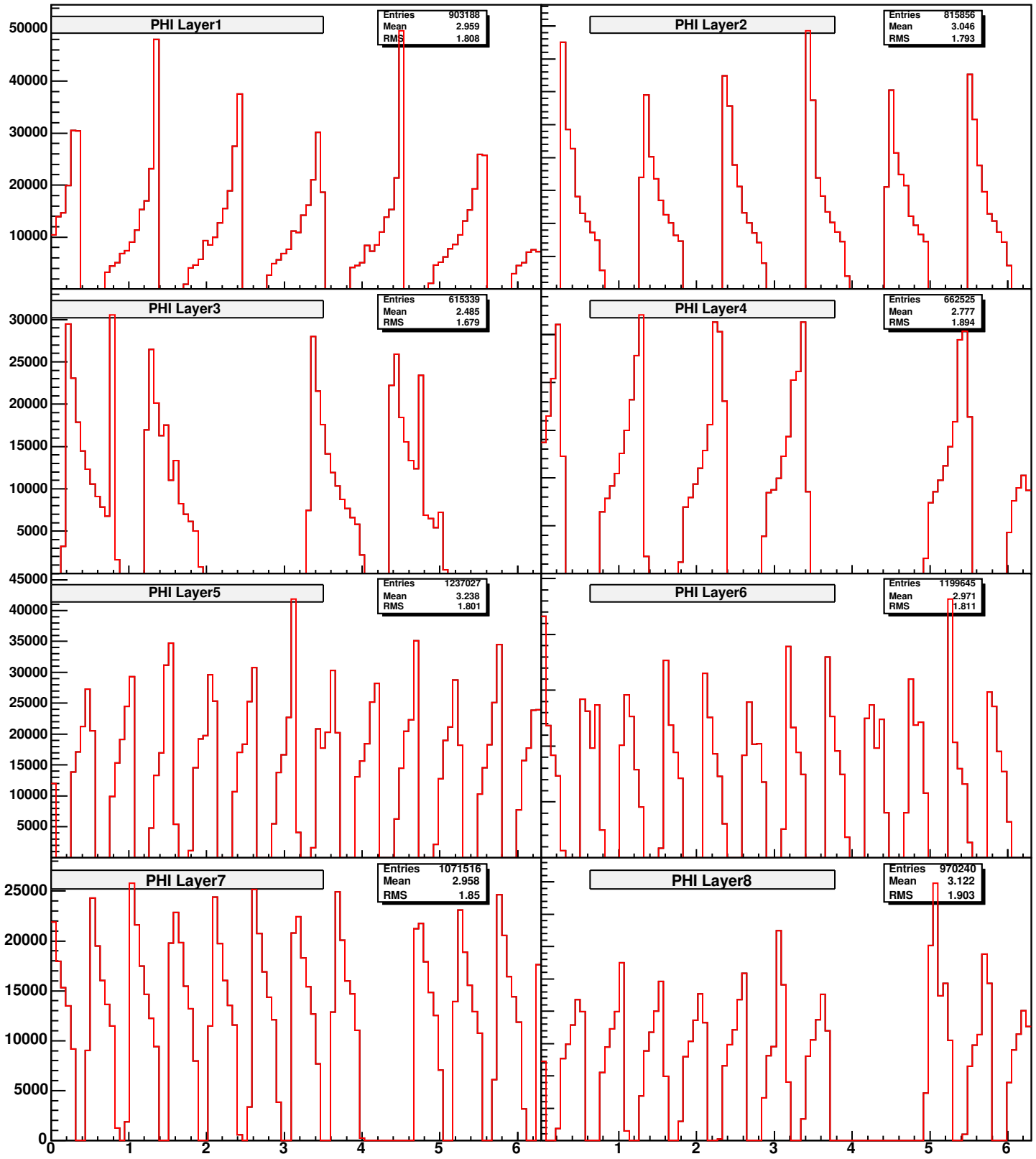


CPS Clusters (All Clusters)

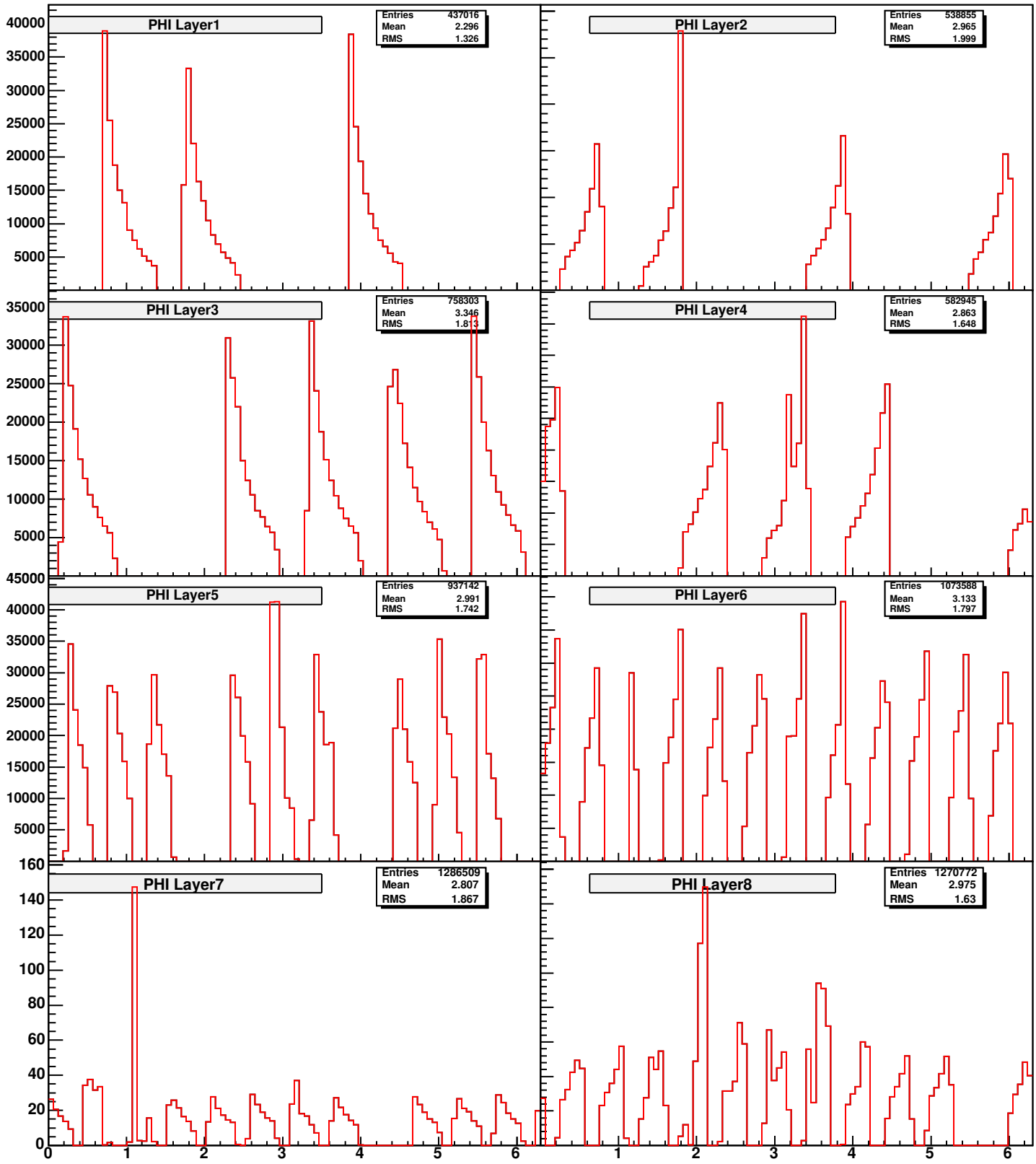

PHI
Entries 4.10597e+07
Mean 3.058
RMS 1.814
700
600
500
400
300
200
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 1.84792e+07
Mean 3.097
RMS 1.812
300
250
200
150
100
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

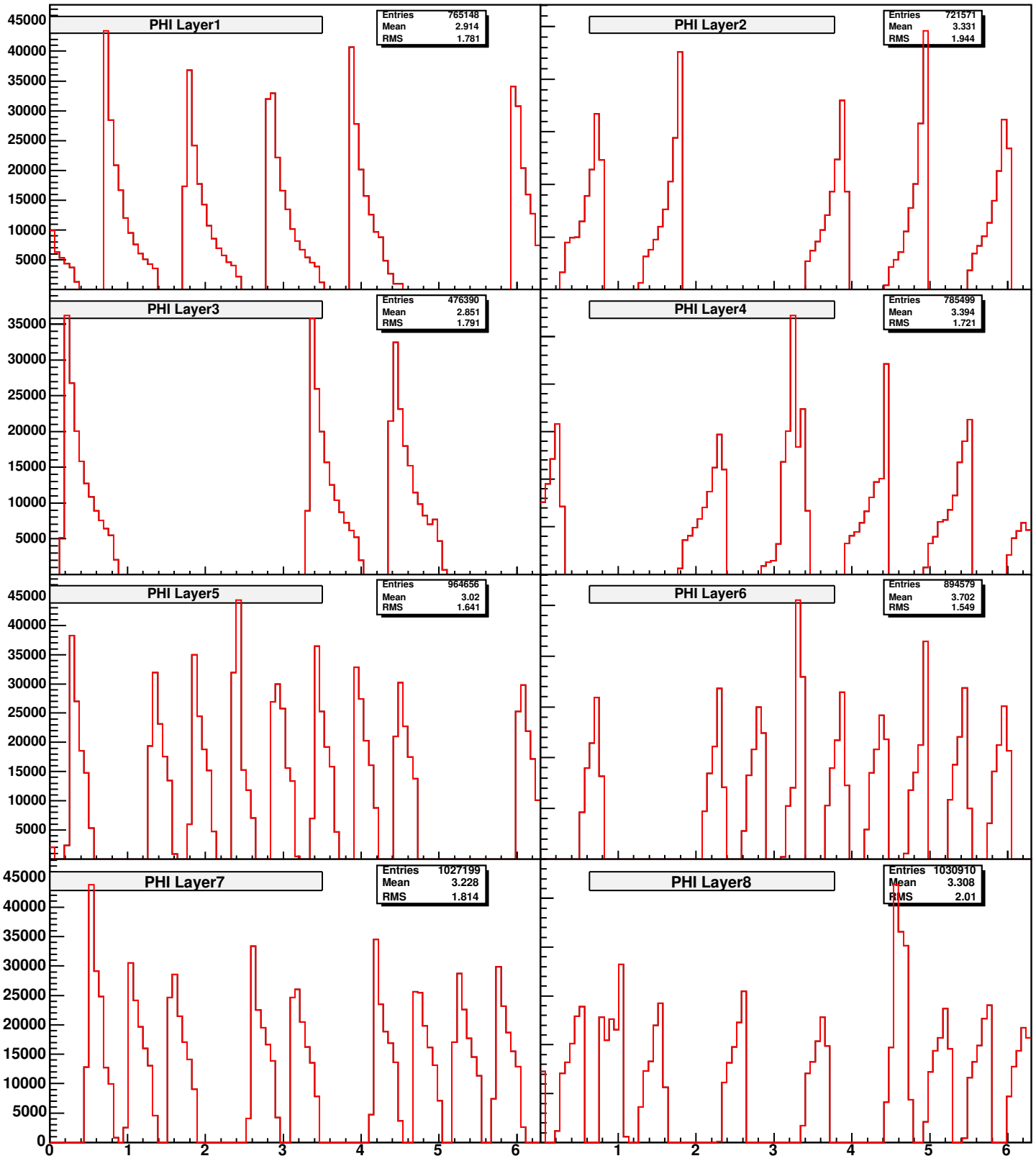

PHI HDisk All
Entries 7753337
Mean 3.234
RMS 1.838
250
200
150
100
50
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



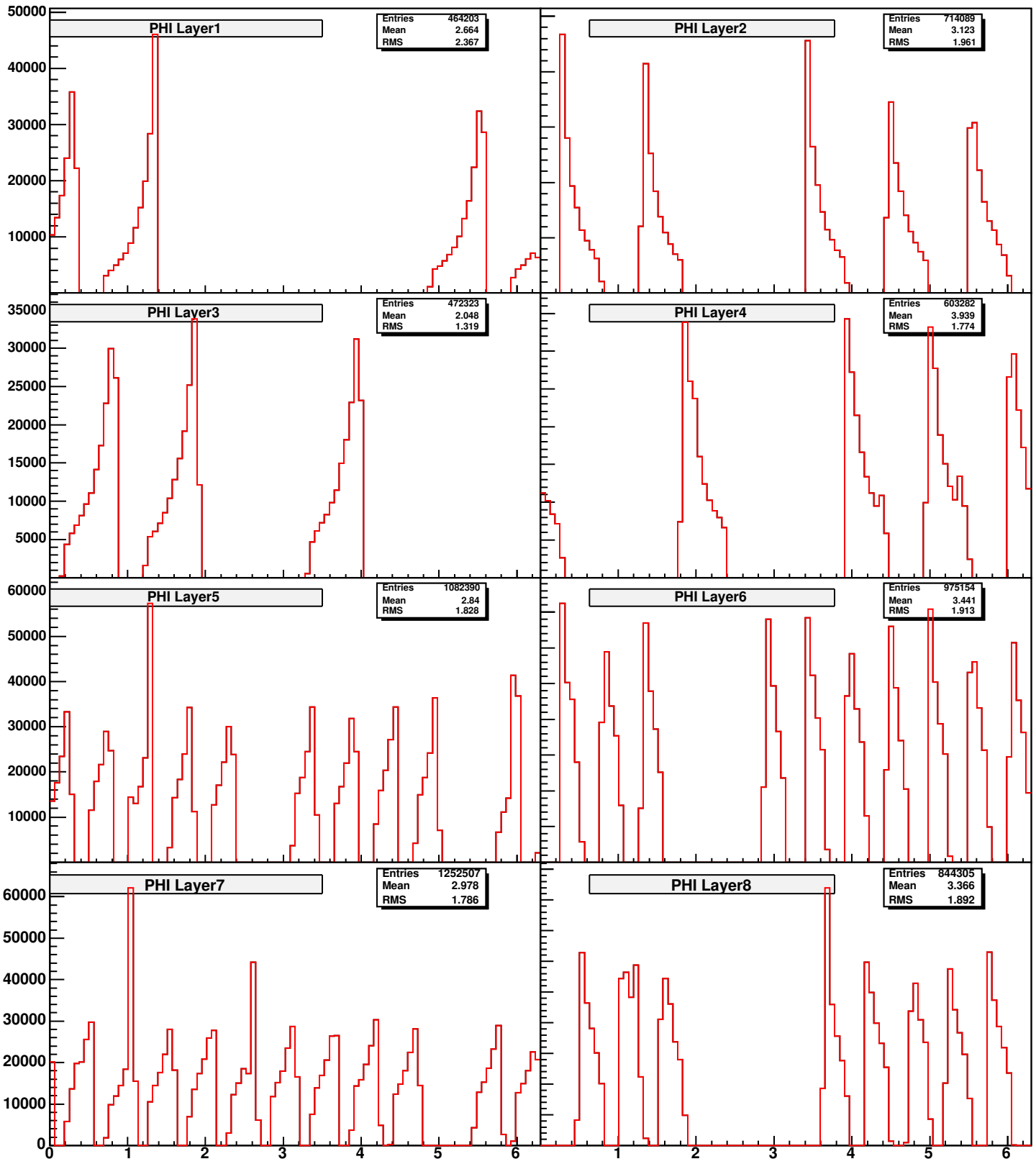
SmtClusters (ClustrBar1)



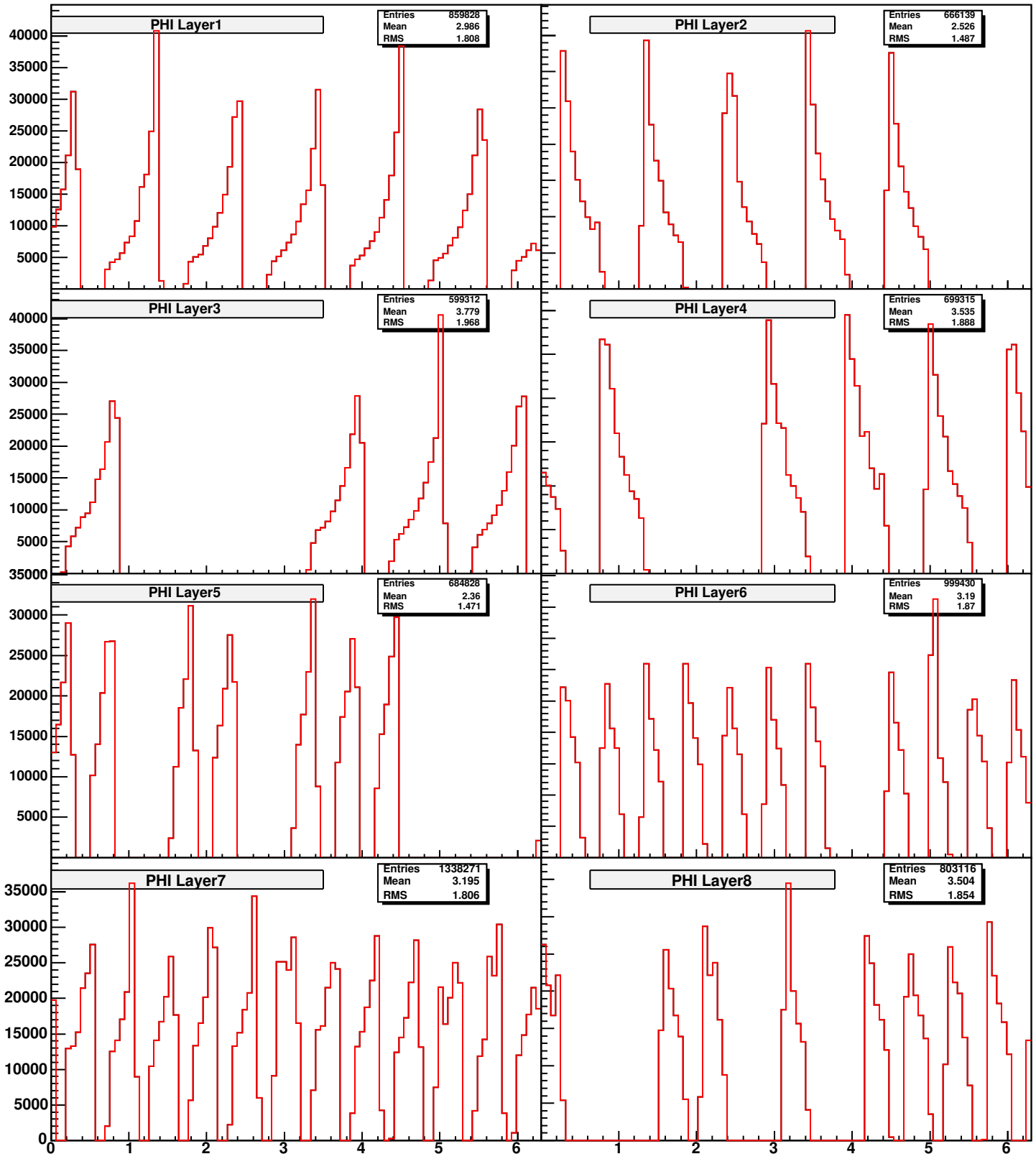
SmtClusters (ClustrBar2)



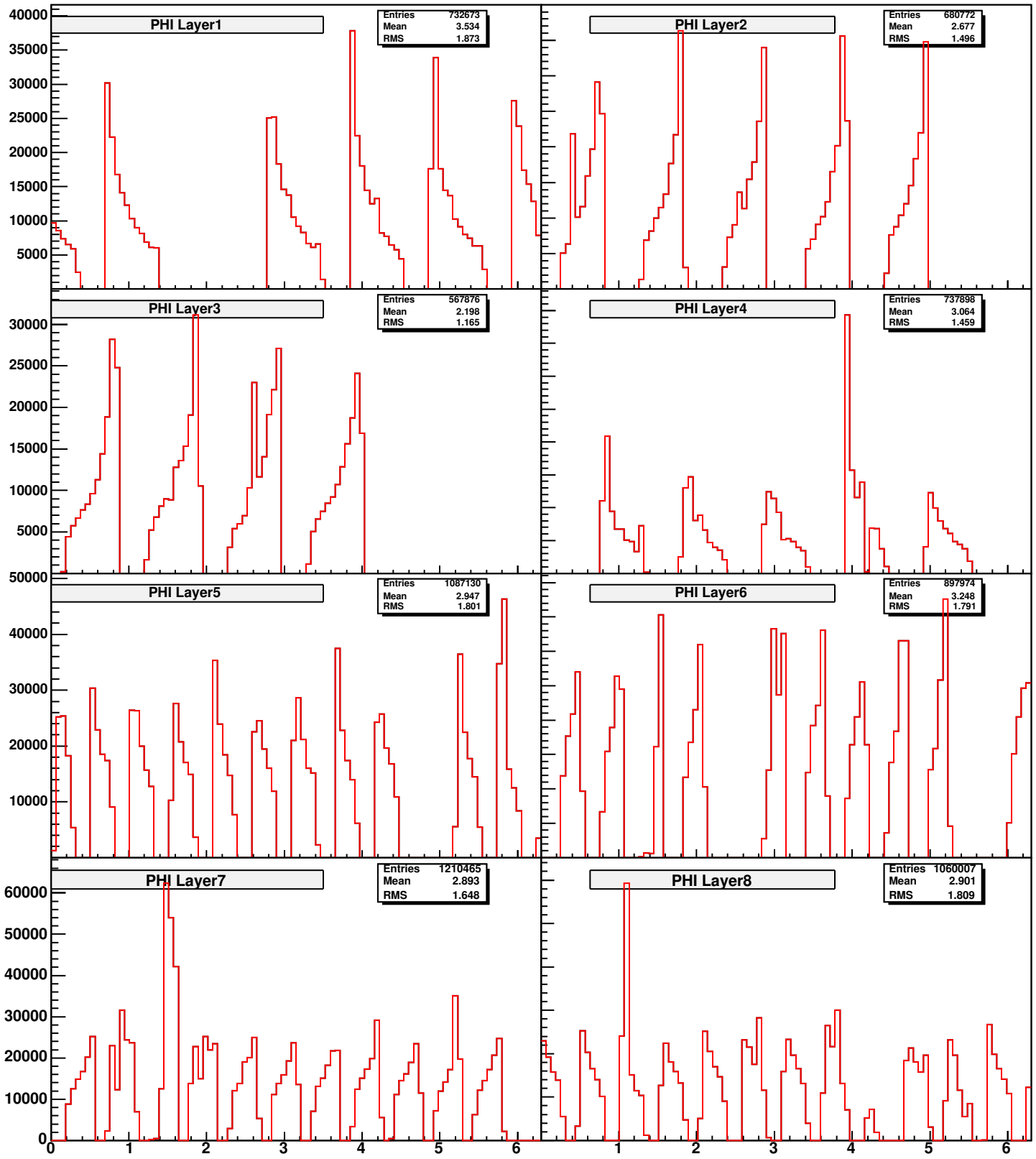
SmtClusters (ClustrBar3)

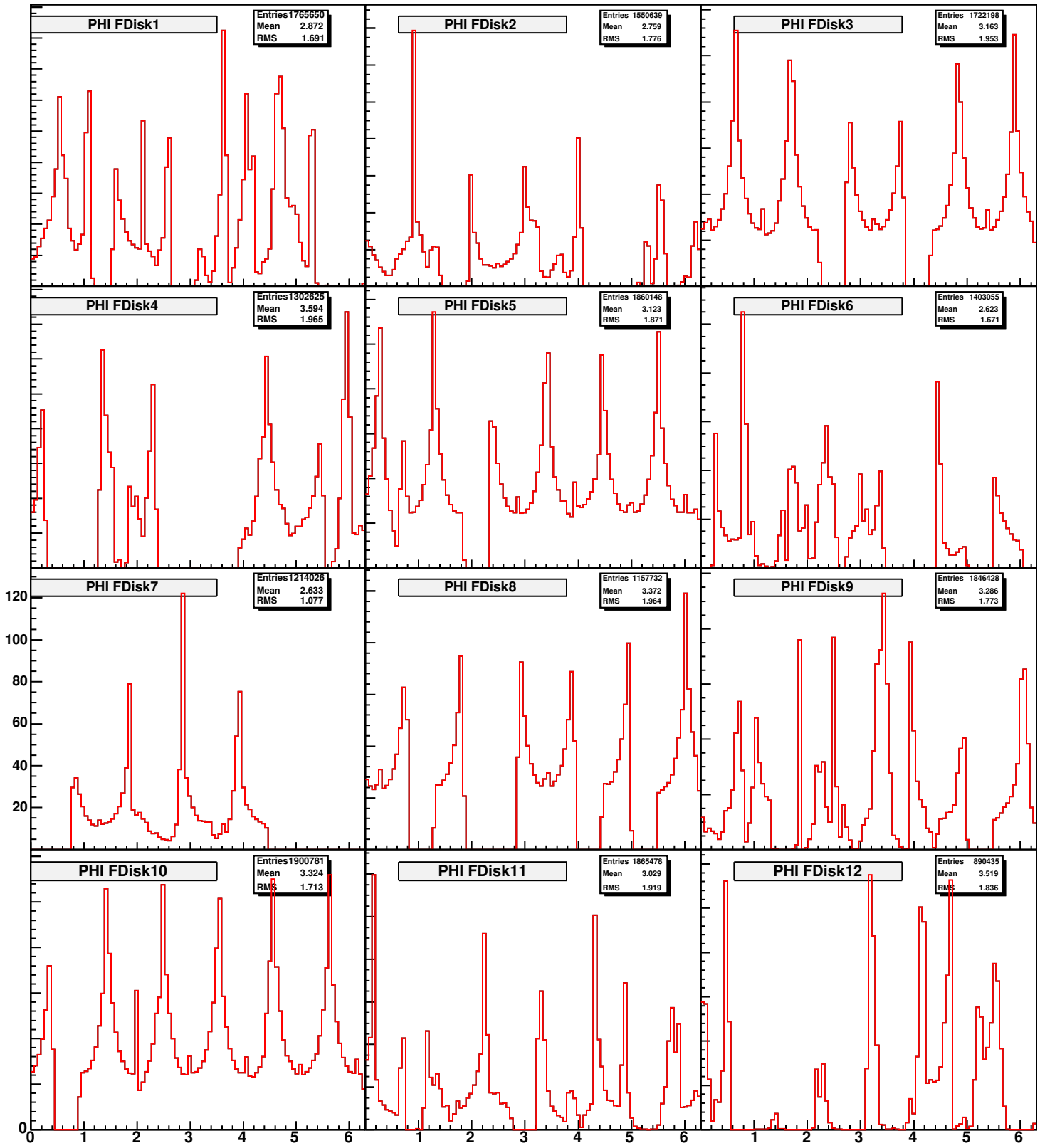


SmtClusters (ClustrBar4)

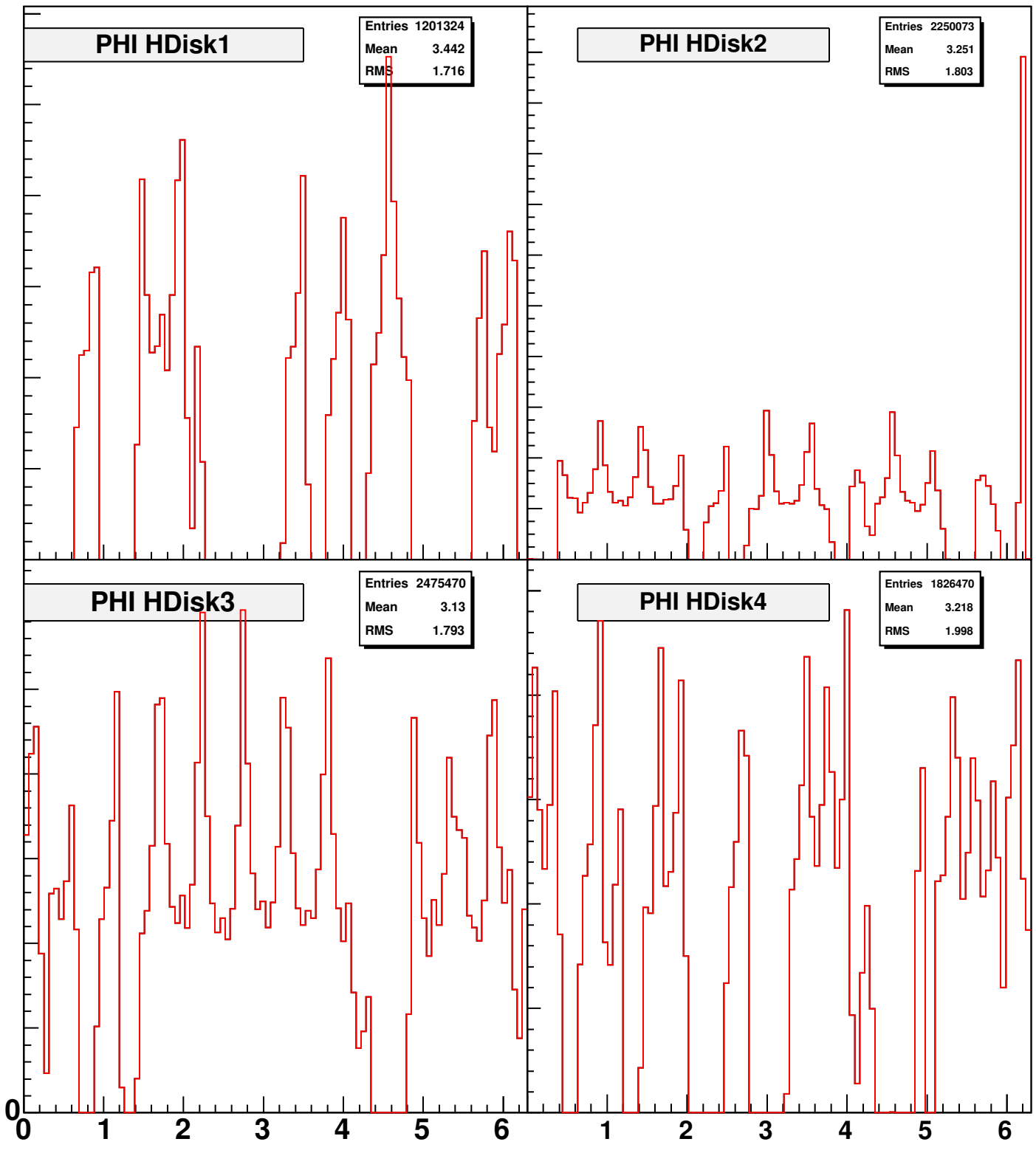


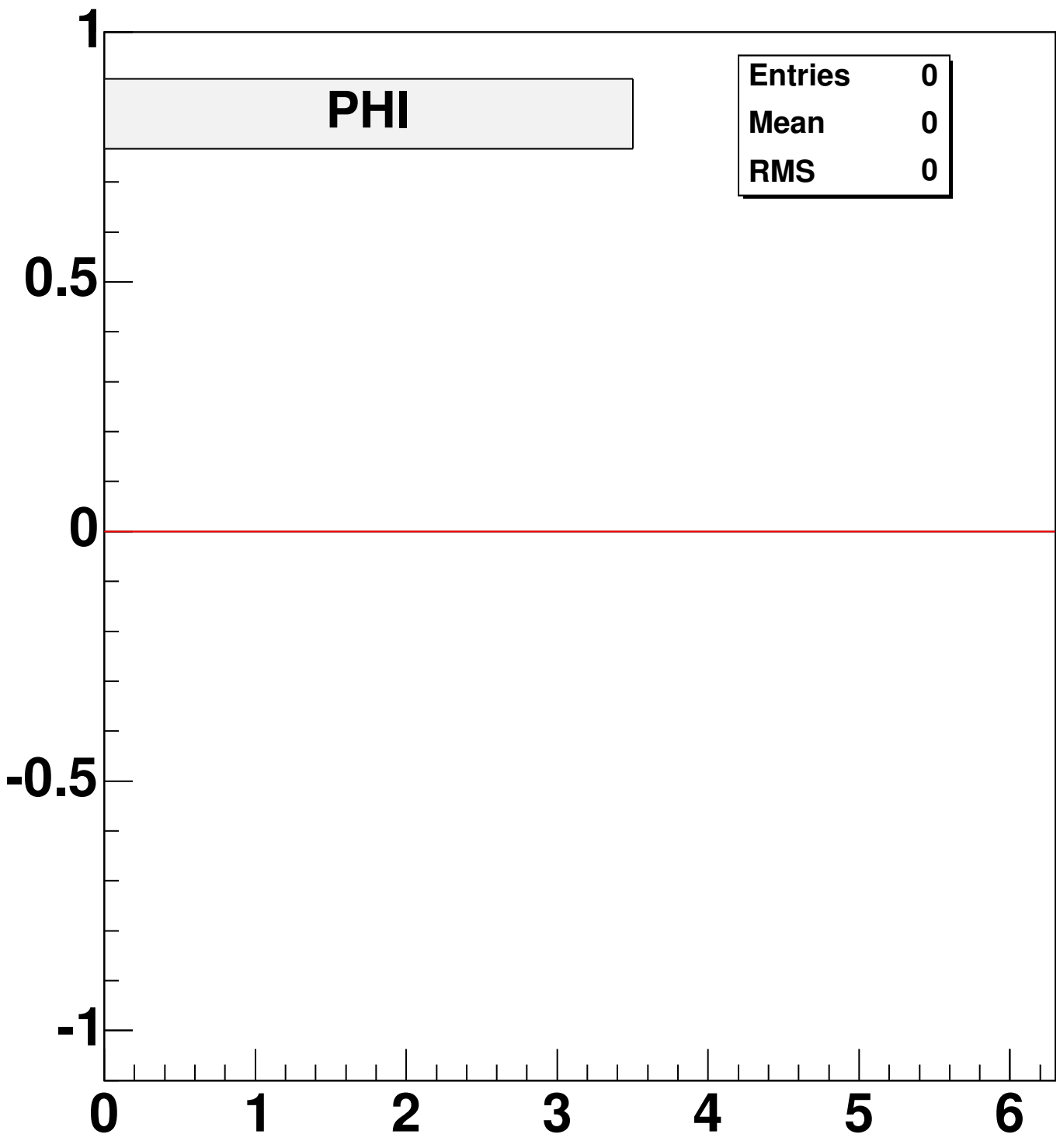
SmtClusters (ClustrBar5)

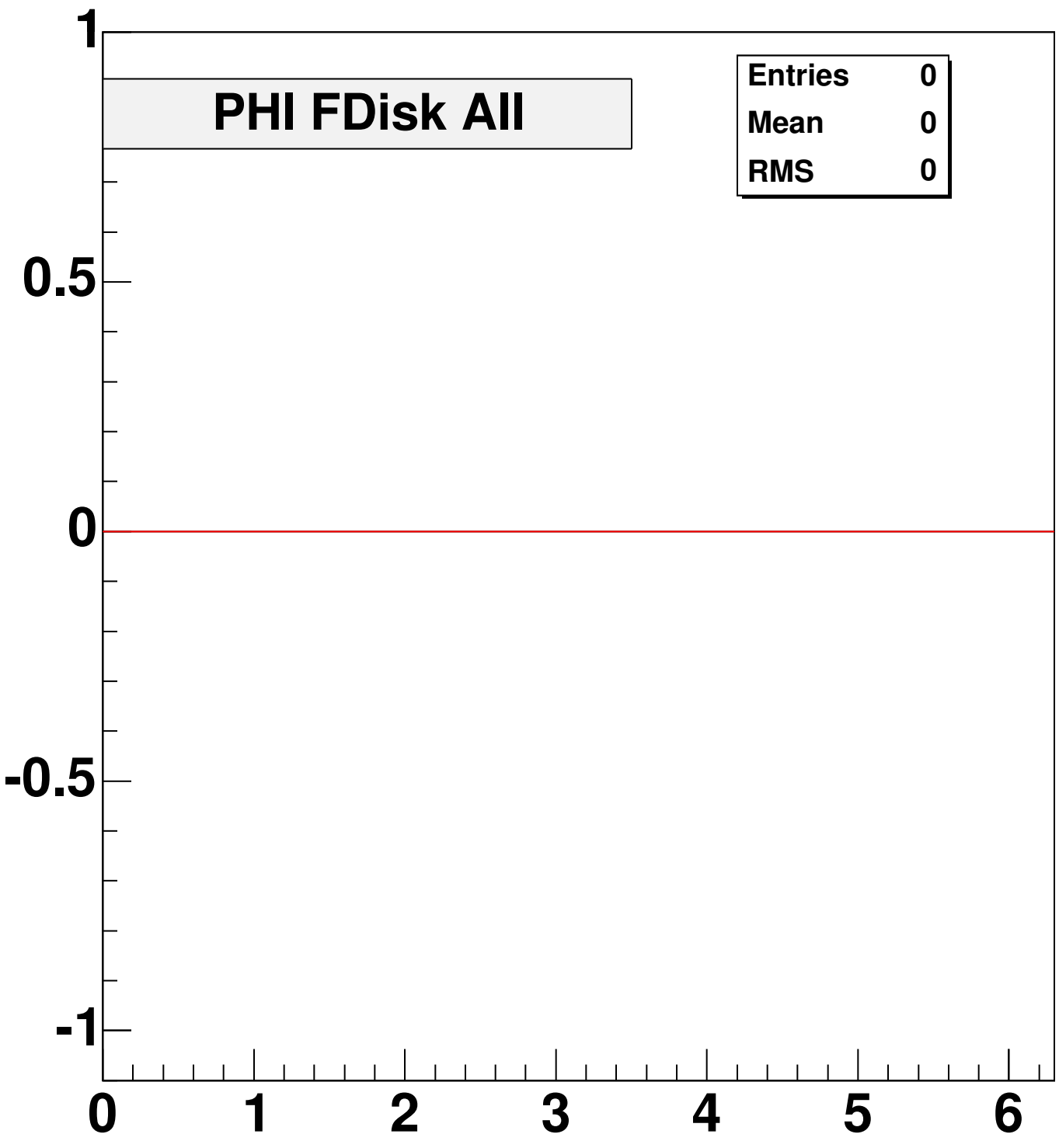

PHI Layer1
Entries 732673
Mean 3.534
RMS 1.873
PHI Layer2
Entries 680772
Mean 2.677
RMS 1.496
PHI Layer3
Entries 567876
Mean 2.198
RMS 1.165
PHI Layer4
Entries 737898
Mean 3.064
RMS 1.459
PHI Layer5
Entries 1087130
Mean 2.947
RMS 1.801
PHI Layer6
Entries 897974
Mean 3.248
RMS 1.791
PHI Layer7
Entries 1210465
Mean 2.893
RMS 1.648
PHI Layer8
Entries 1060007
Mean 2.901
RMS 1.809
SmtClusters (ClustrBar6)

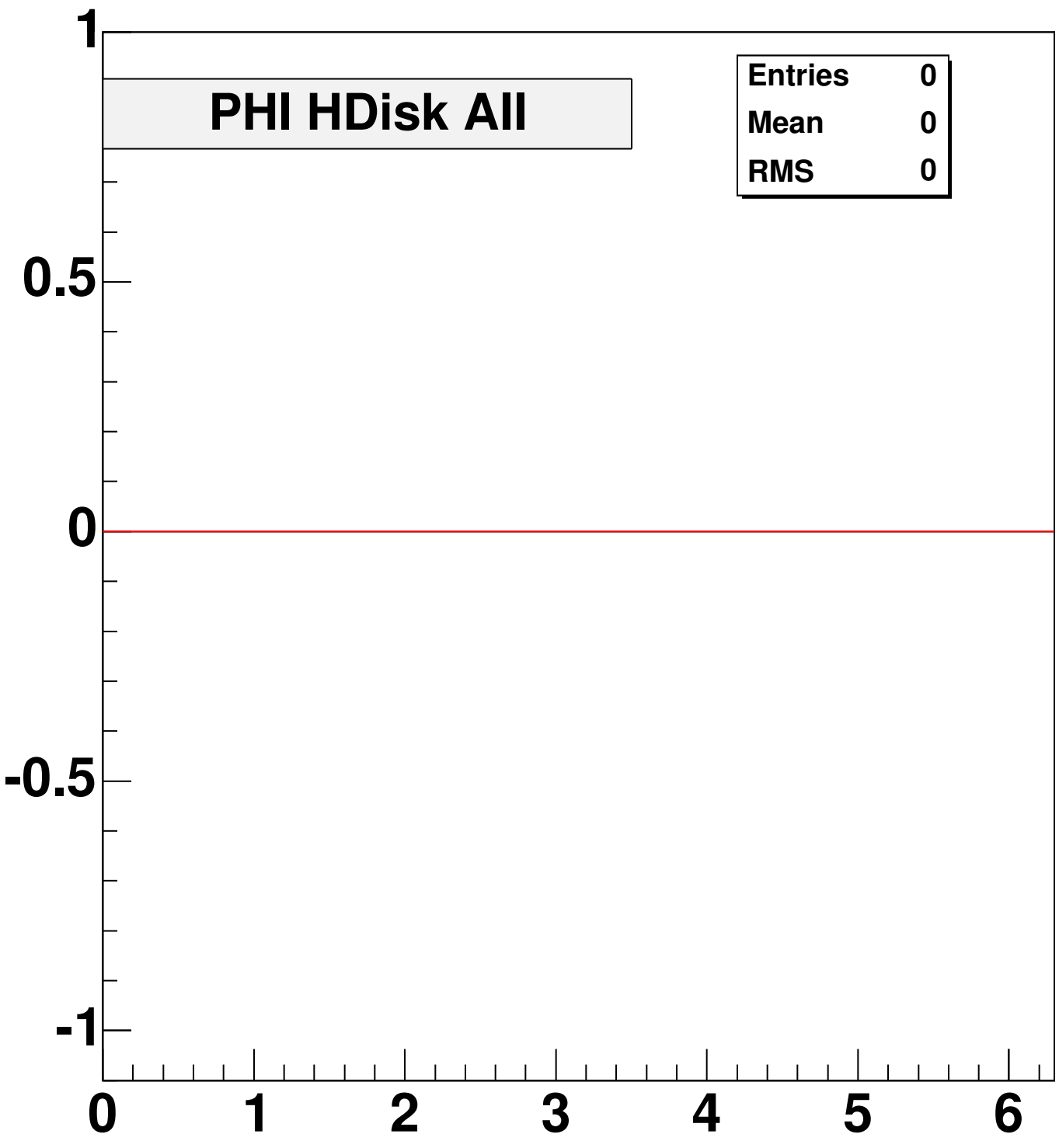


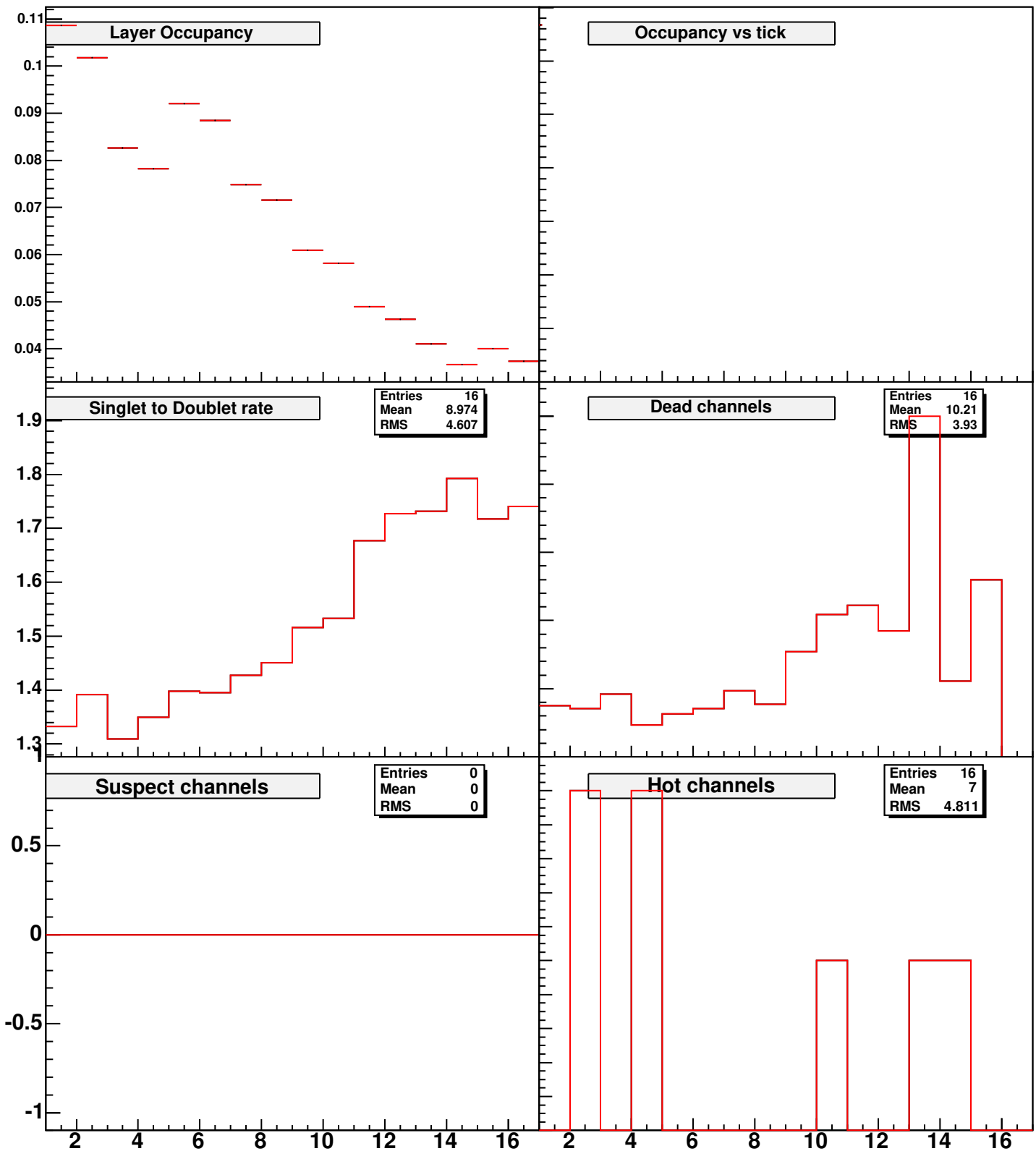
SmtClusters (FDiskClusters)


PHI HDisk1
Entries 1201324
Mean 3.442
RMS 1.716
PHI HDisk2
Entries 2250073
Mean 3.251
RMS 1.803
PHI HDisk3
Entries 2475470
Mean 3.13
RMS 1.793
PHI HDisk4
Entries 1826470
Mean 3.218
RMS 1.998
0
0
1
2
3
4
5
6
1
2
3
4
5
6
SmtClusters (HDiskClusters)

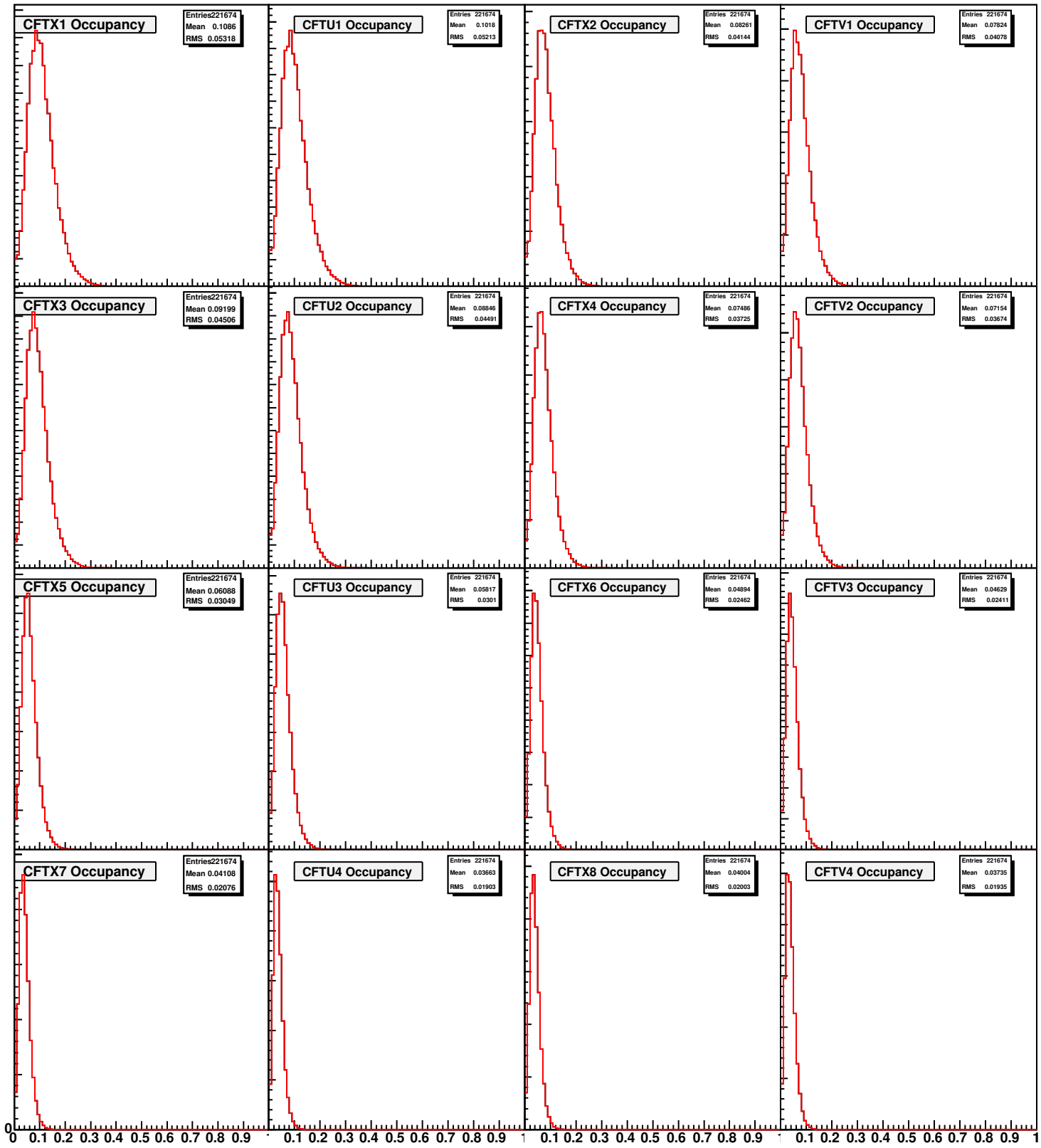

PHI
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)


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)

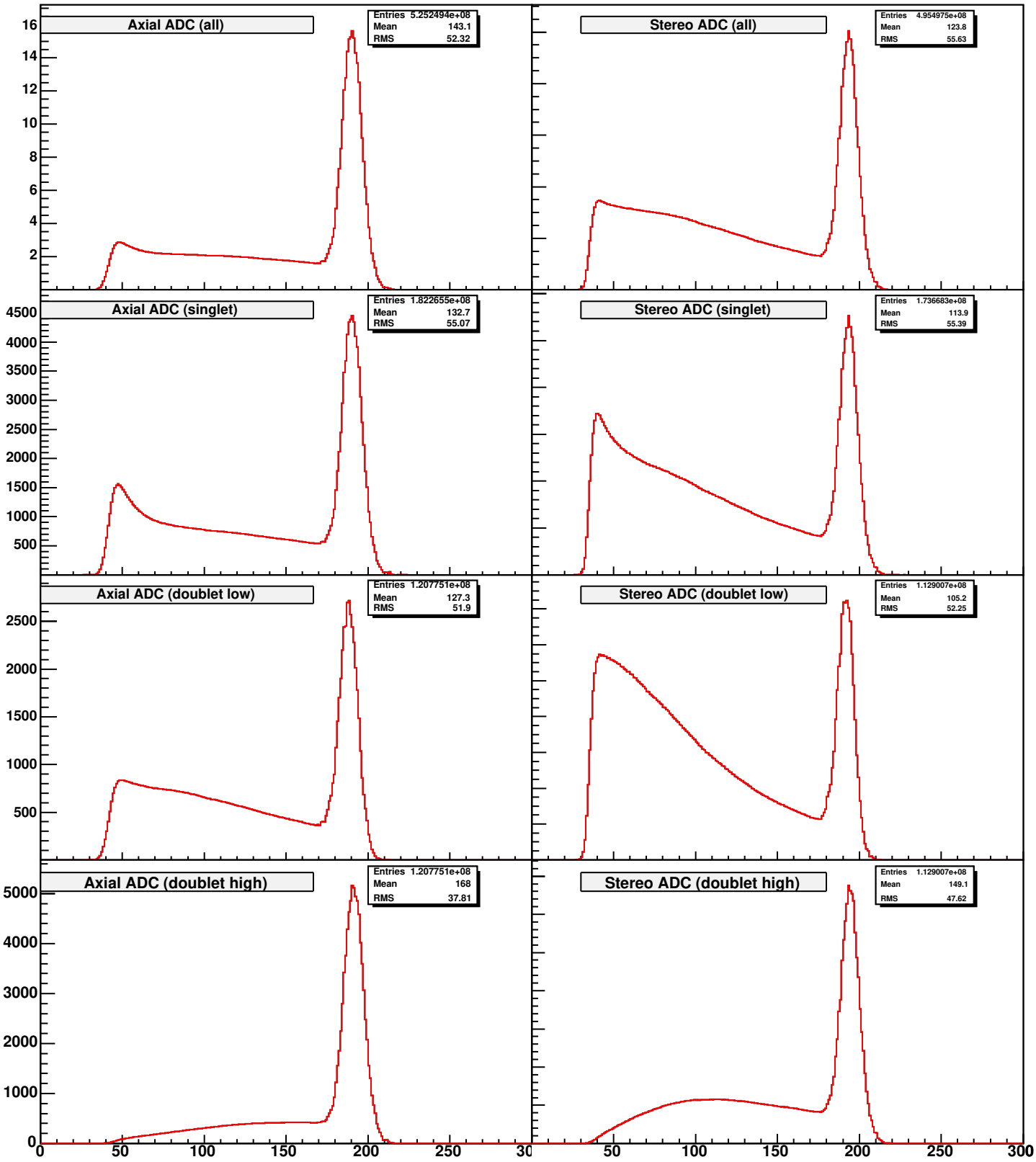

PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allHDiskTClusters)



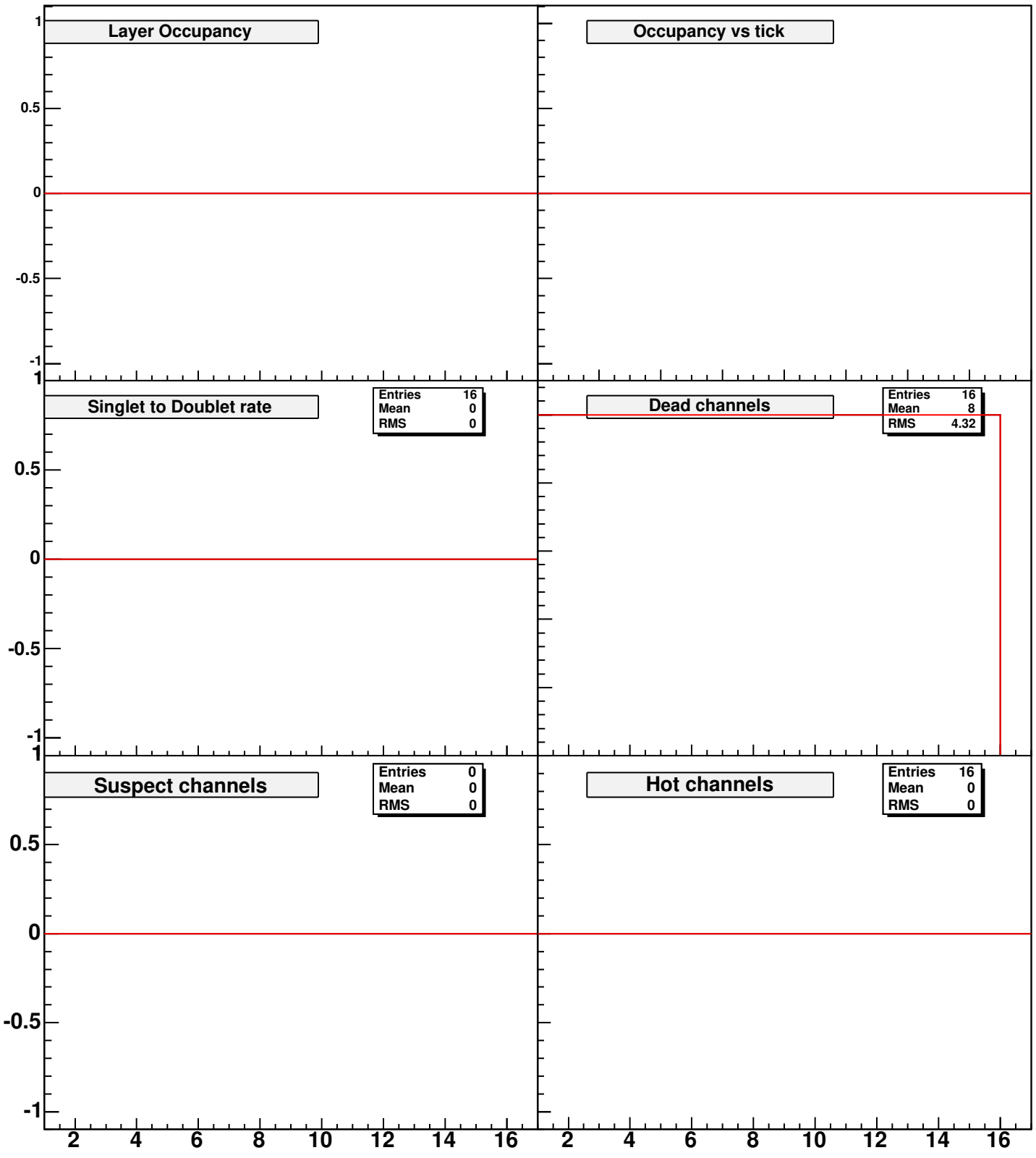
CFT Summary (All Clusters)



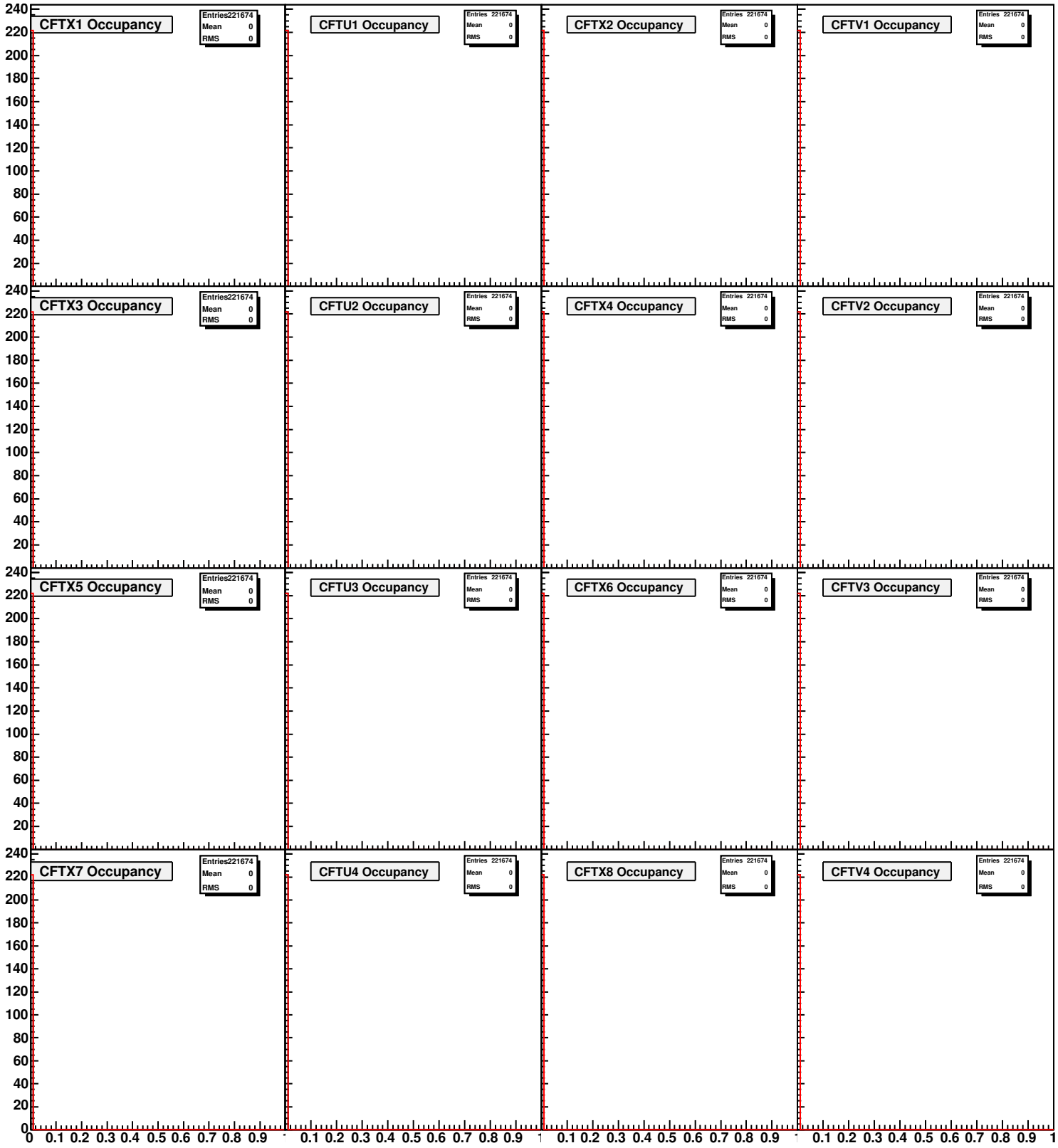
CFT Occupancy (All Clusters)



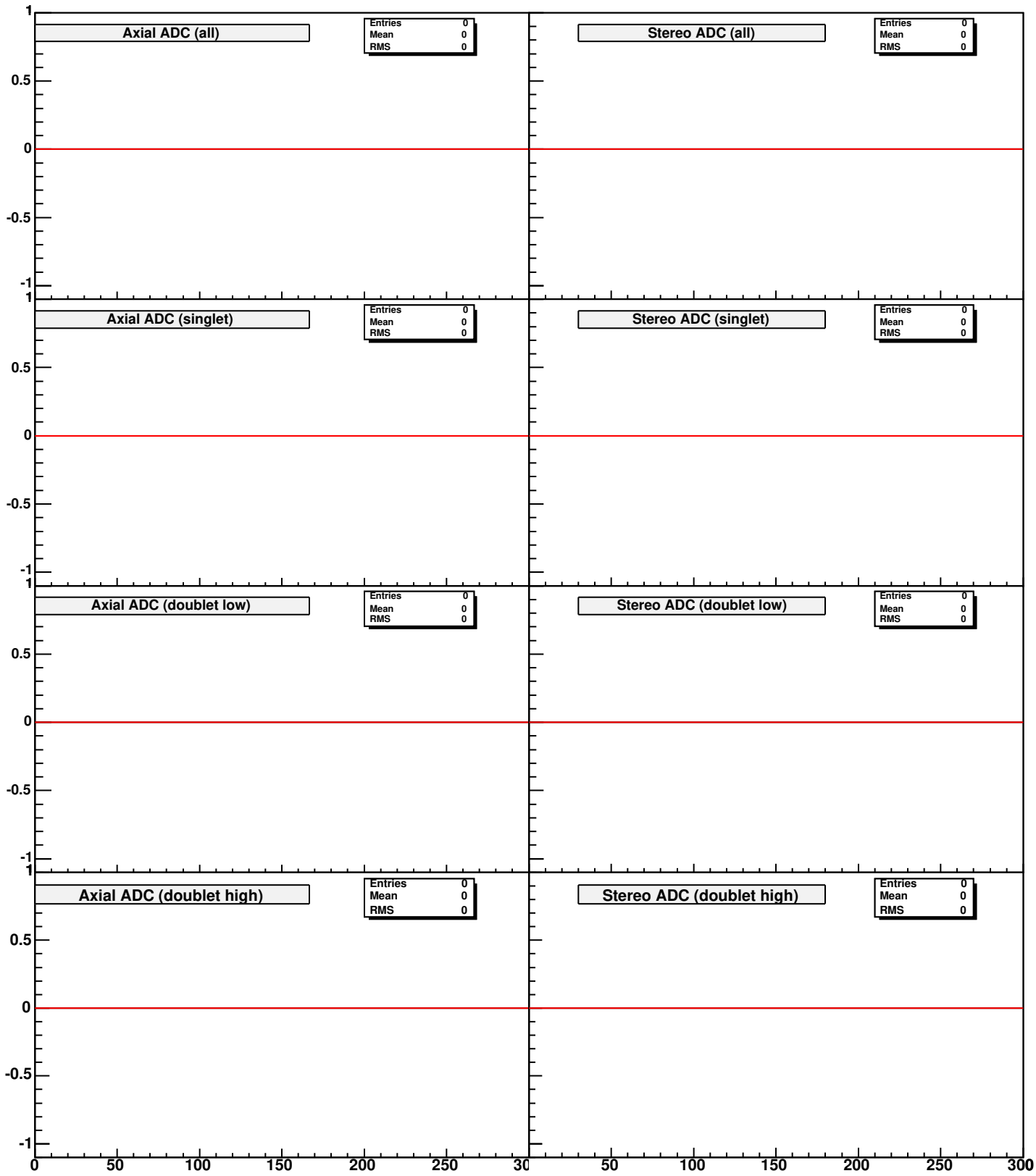
CFT ADC Summary (All Clusters)



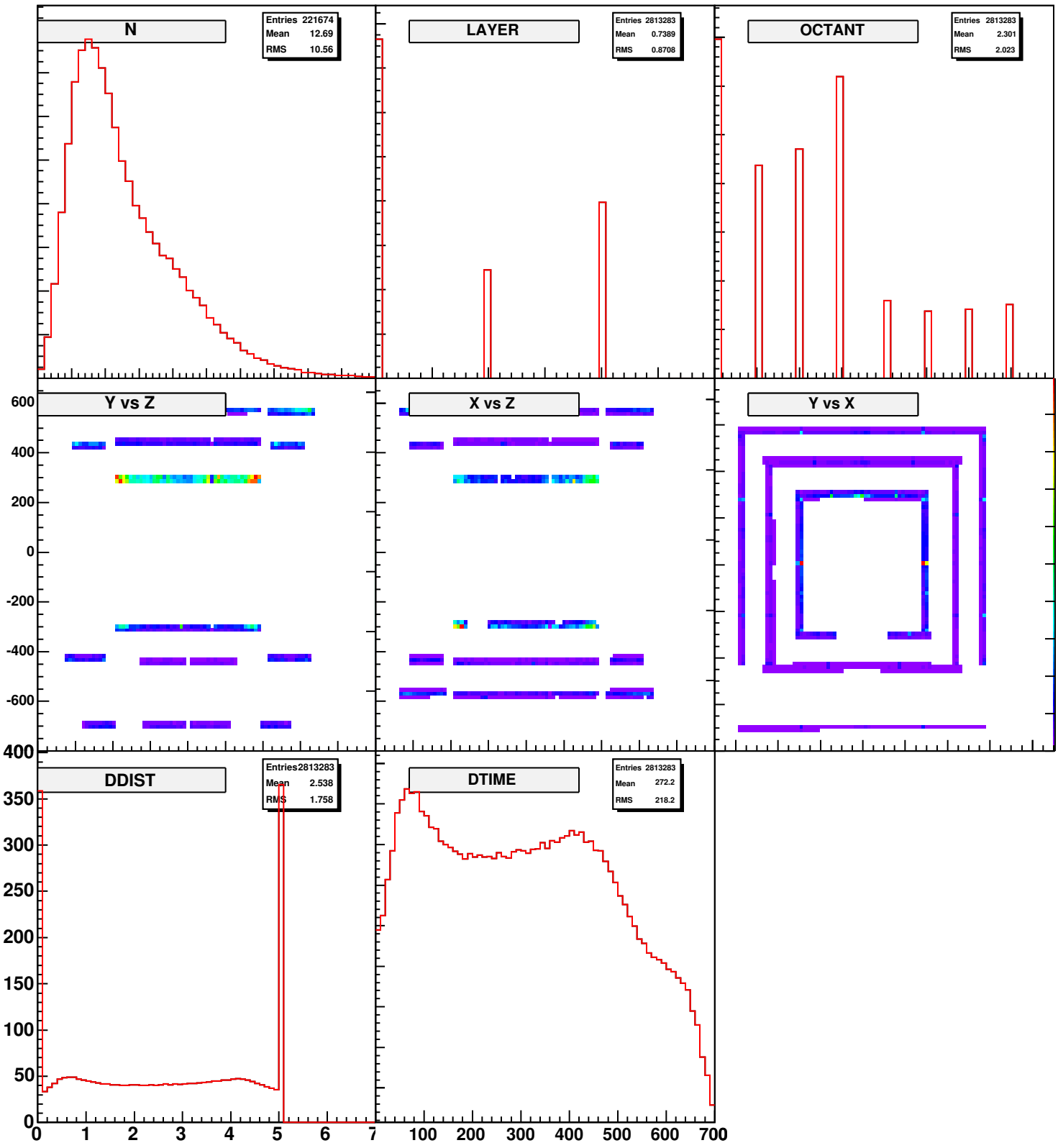
CFT Summary (Clusters on tracks)



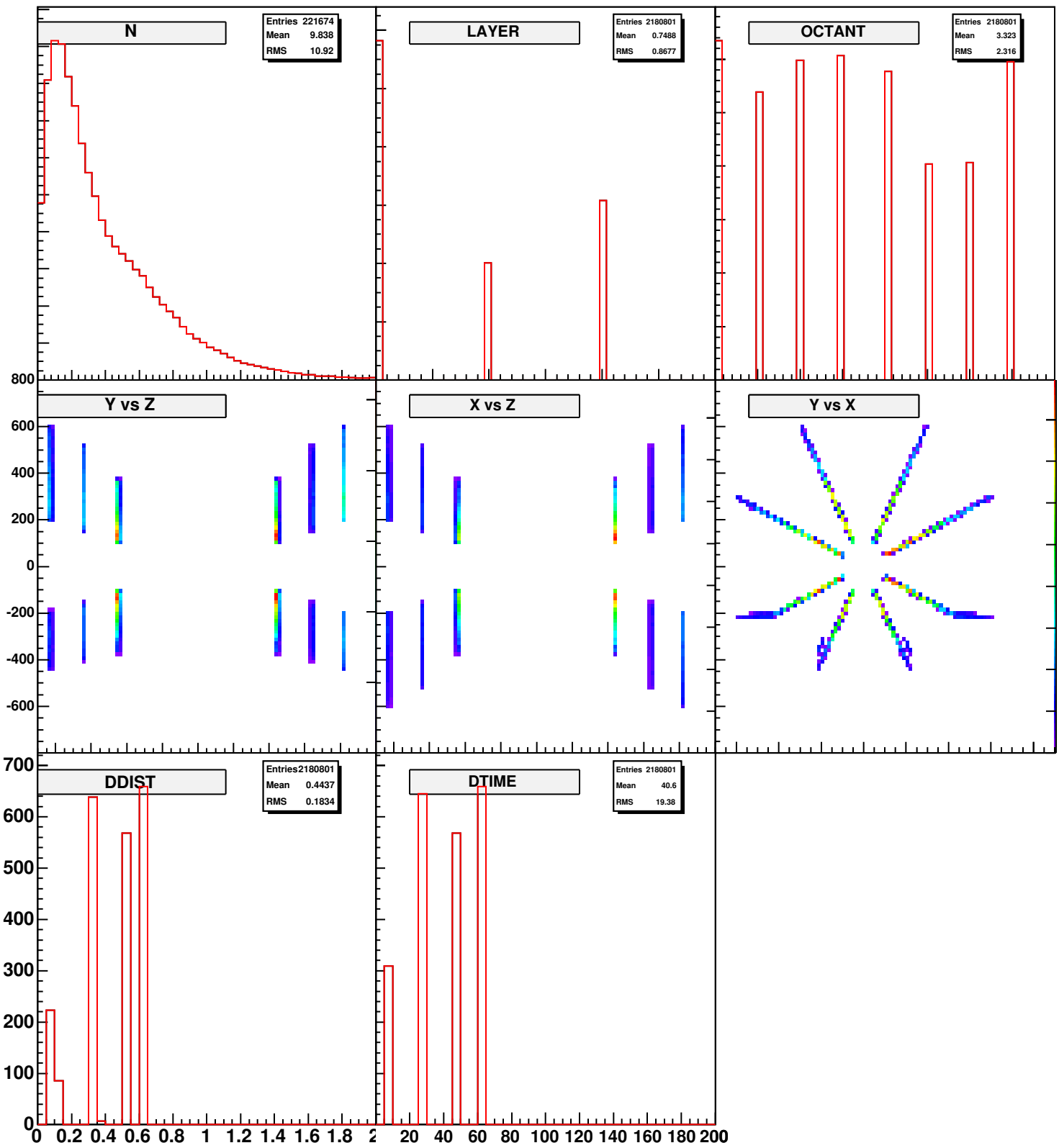
CFT Occupancy (Clusters on tracks)



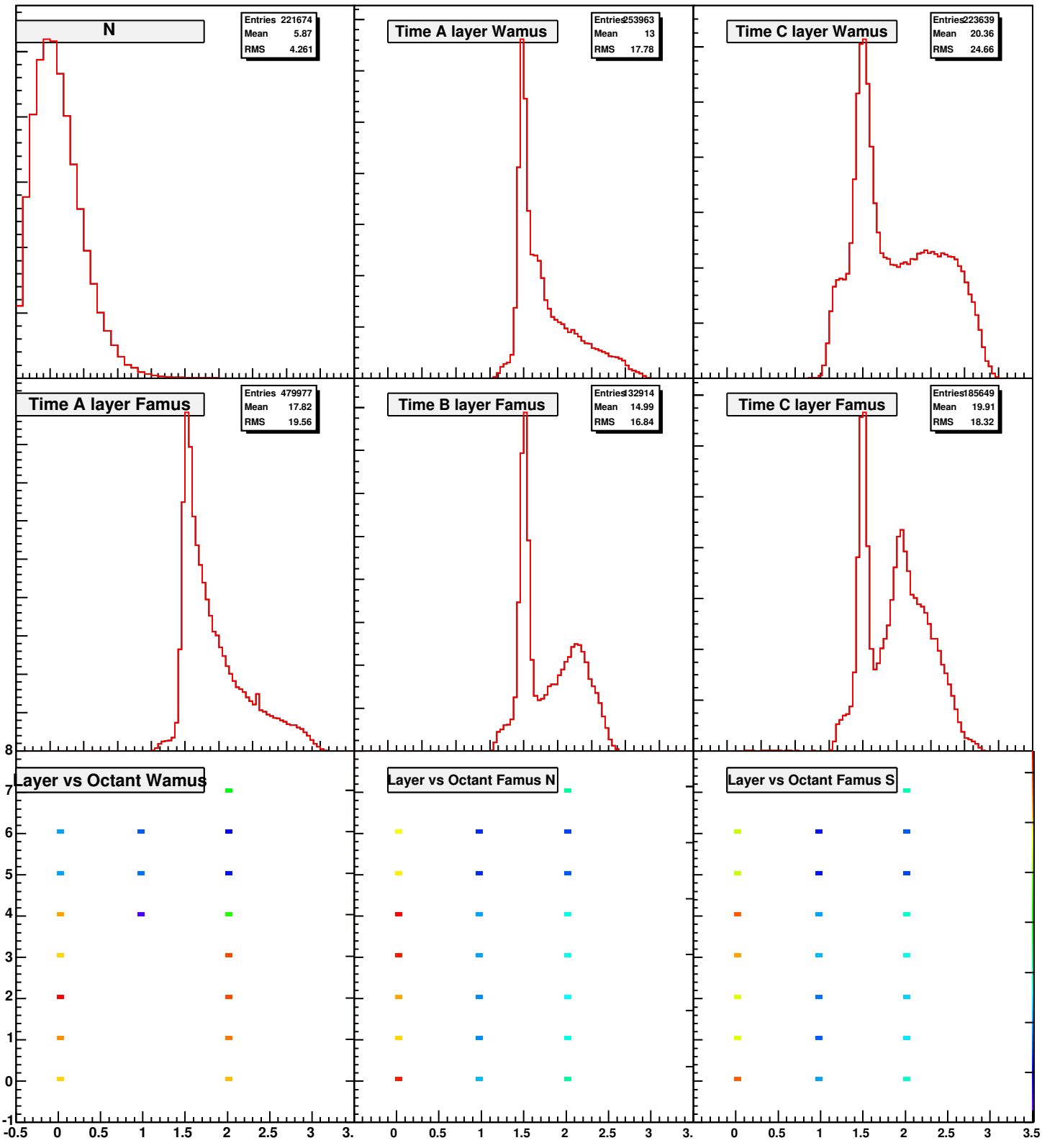
CFT ADC Summary (Clusters on tracks)


N
Entries 221674
Mean 12.69
RMS 10.56
LAYER
Entries 2813283
Mean 0.7389
RMS 0.8708
OCTANT
Entries 2813283
Mean 2.301
RMS 2.023
Y vs Z
X vs Z
Y vs X
DDIST
Entries 2813283
Mean 2.538
RMS 1.758
DTIME
Entries 2813283
Mean 272.2
RMS 218.2

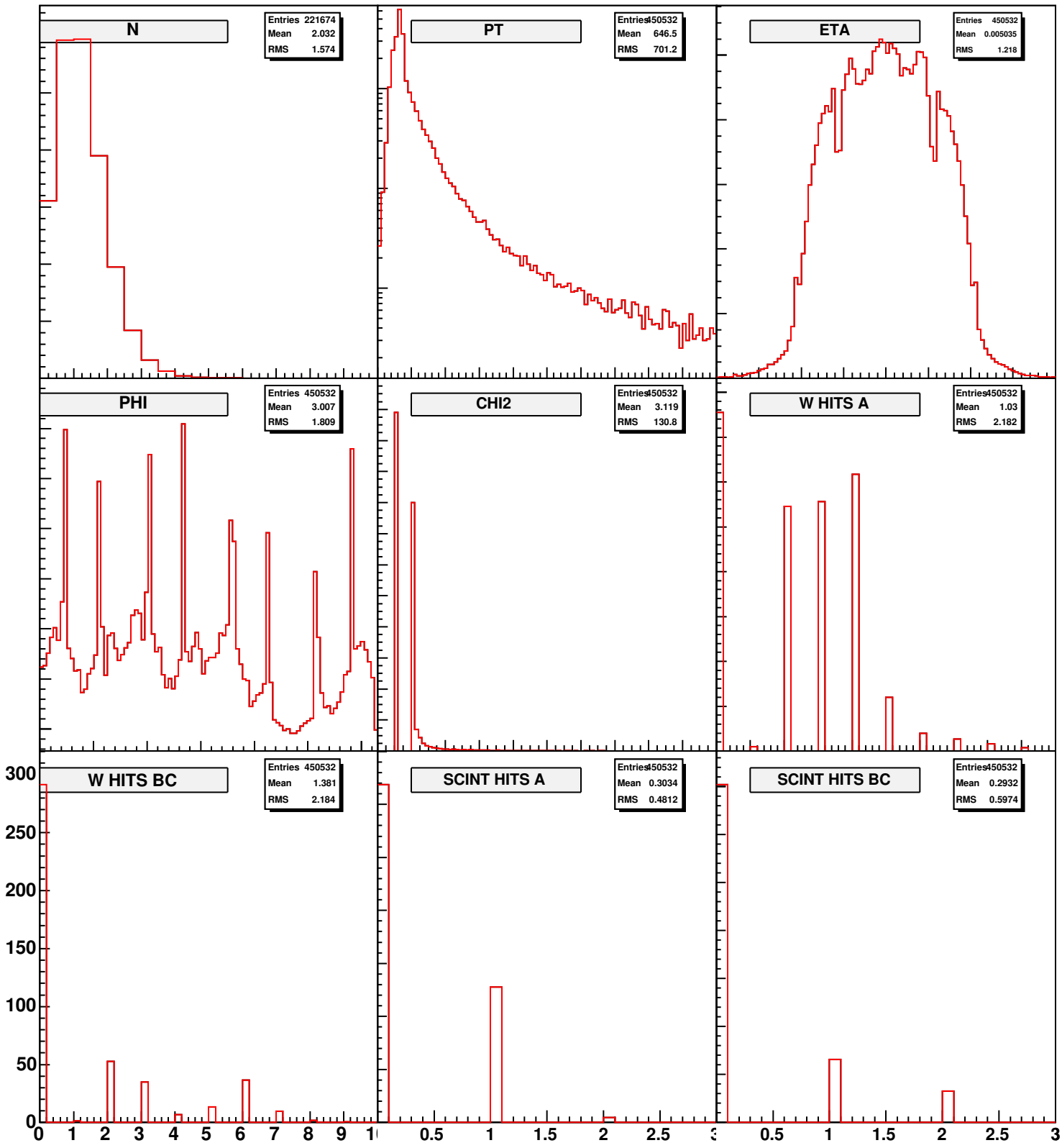
MuonPDT (All)


N
Entries 221674
Mean 9.838
RMS 10.92
LAYER
Entries 2180801
Mean 0.7488
RMS 0.8677
OCTANT
Entries 2180801
Mean 3.323
RMS 2.316
Y vs Z
X vs Z
Y vs X
DDIST
Entries 2180801
Mean 0.4437
RMS 0.1834
DTIME
Entries 2180801
Mean 40.6
RMS 19.38
800
600
400
200
0
-200
-400
-600
700
600
500
400
300
200
100
0
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
20 40 60 80 100 120 140 160 180 200

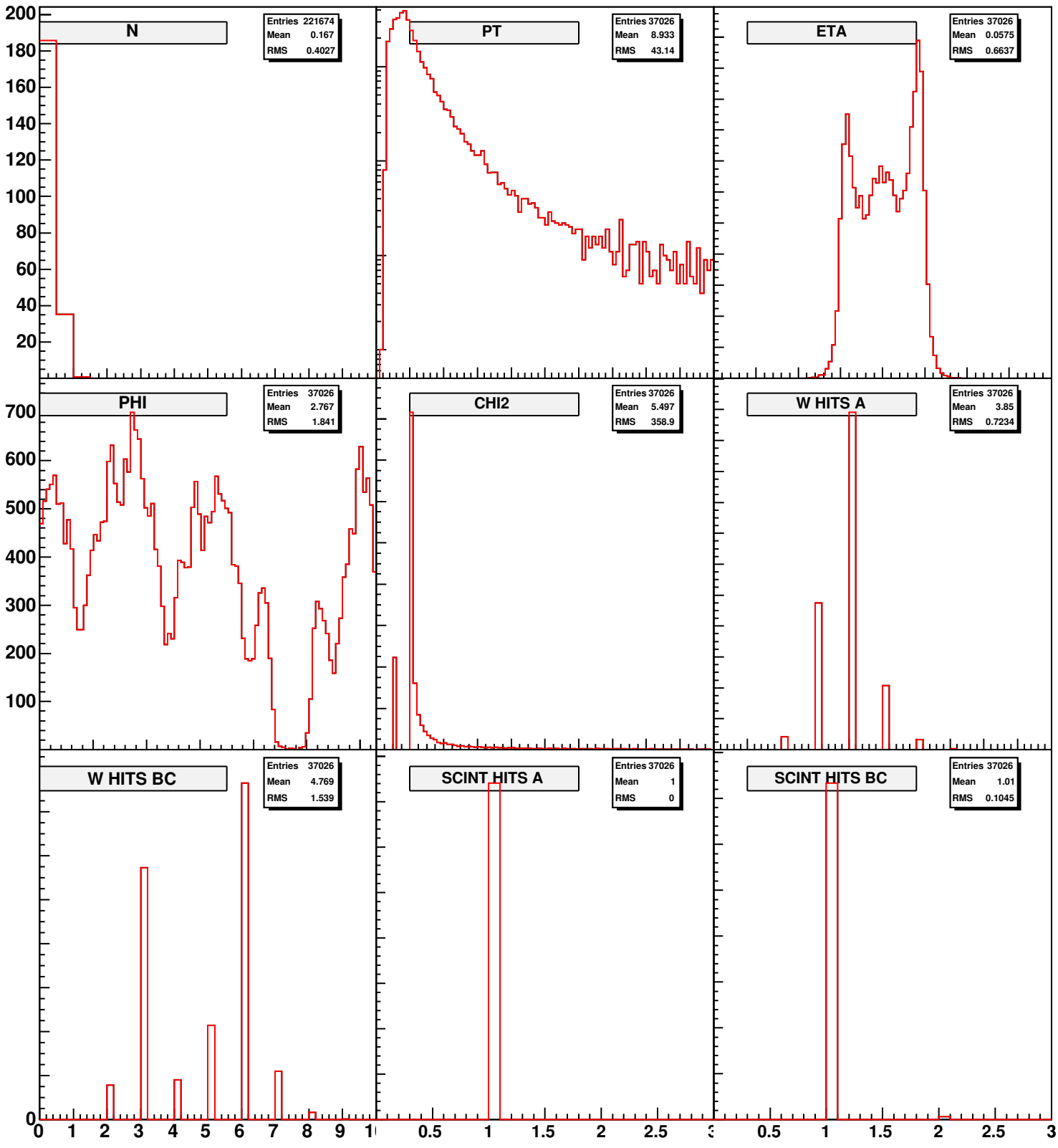
MuonMDT (All)


N
Entries 221674
Mean 5.87
RMS 4.261
Time A layer Wamus
Entries 253963
Mean 13
RMS 17.78
Time C layer Wamus
Entries 223639
Mean 20.36
RMS 24.66
Time A layer Famus
Entries 479977
Mean 17.82
RMS 19.56
Time B layer Famus
Entries 132914
Mean 14.99
RMS 16.84
Time C layer Famus
Entries 185649
Mean 19.91
RMS 18.32
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

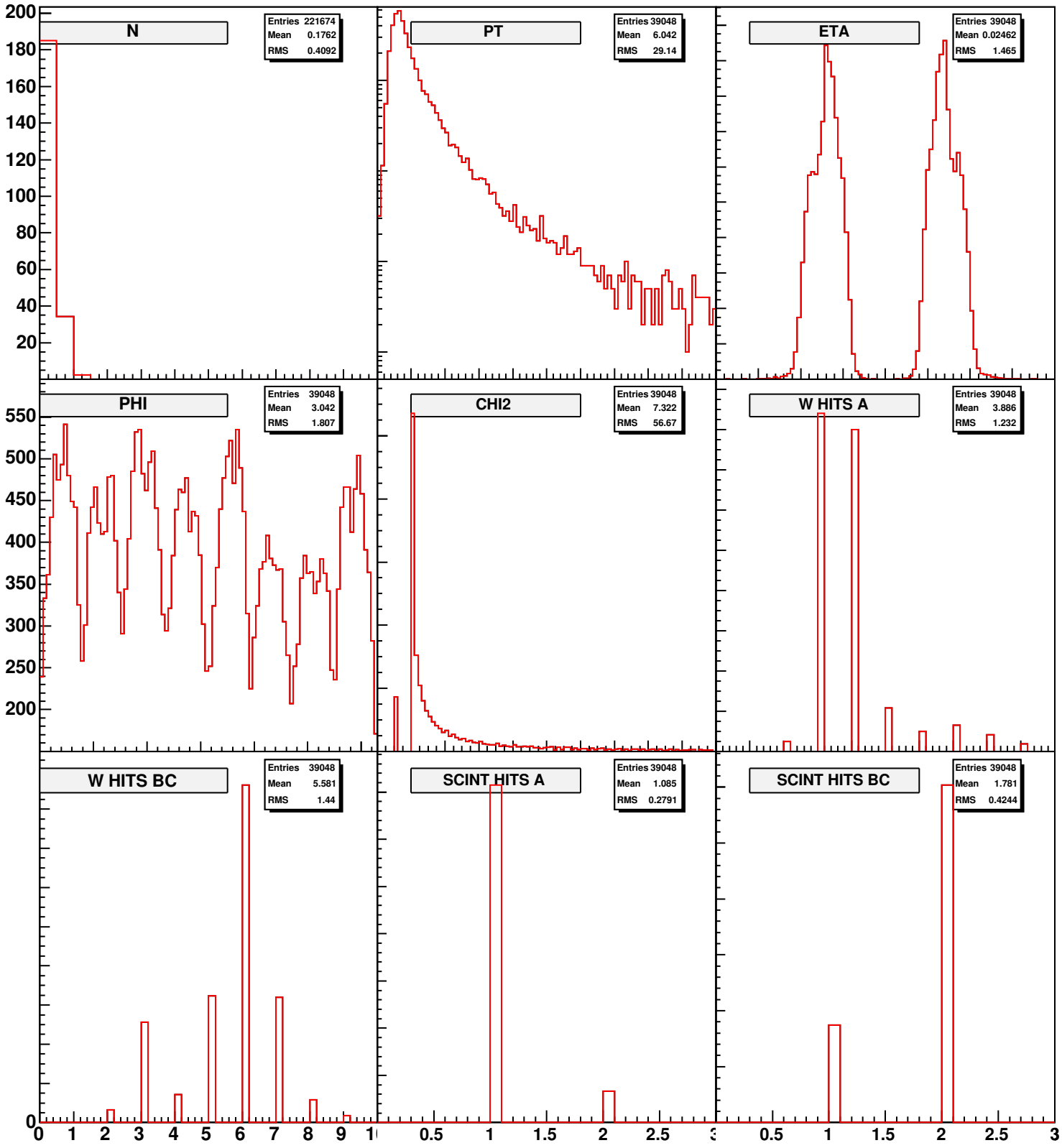
MuonMSC (All)



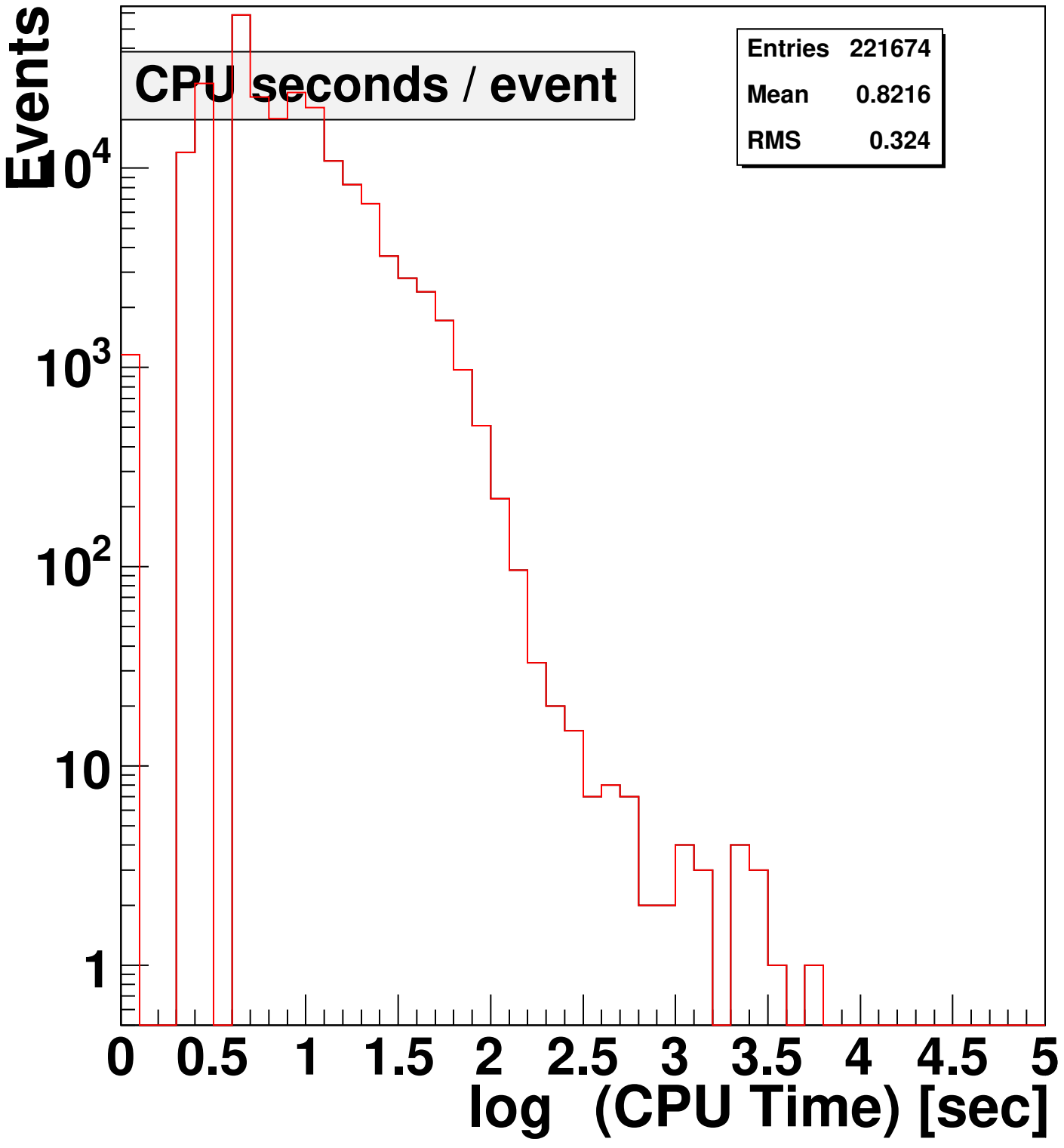
Muon Local Tracks (All)



Muon Local Tracks (MediumWamus)



Muon Local Tracks (MediumFamus)



RECO Performance (Timing)