certify_p17_05_01_reference_208278/merged.root
certify_p17_05_01_run_208278_certification_20051201182

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Page 3: Tracks Hits (All)
Page 4: Tracking (Efficiency - Isolated)
Page 5: Tracking (Efficiency - InJets)
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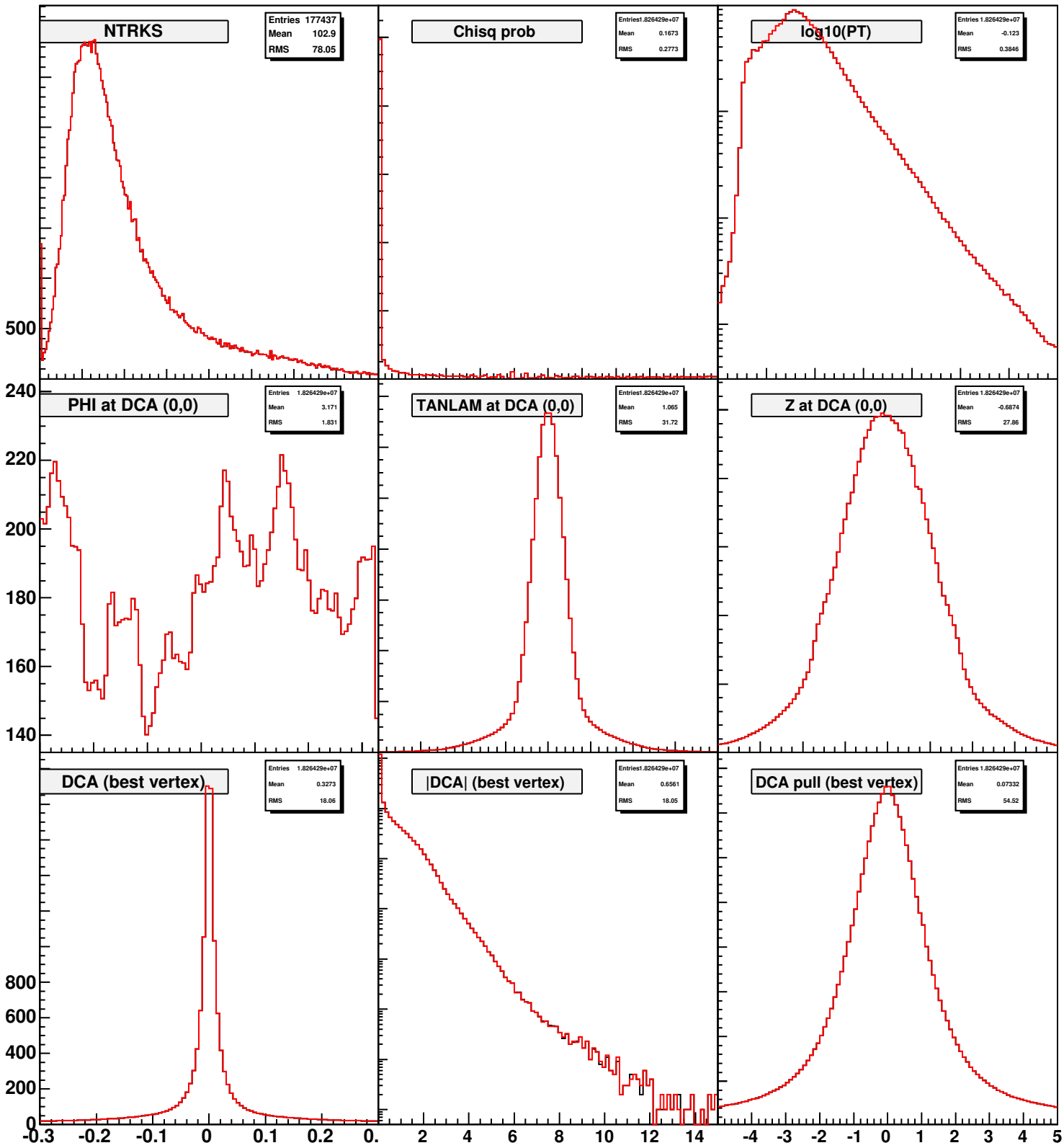
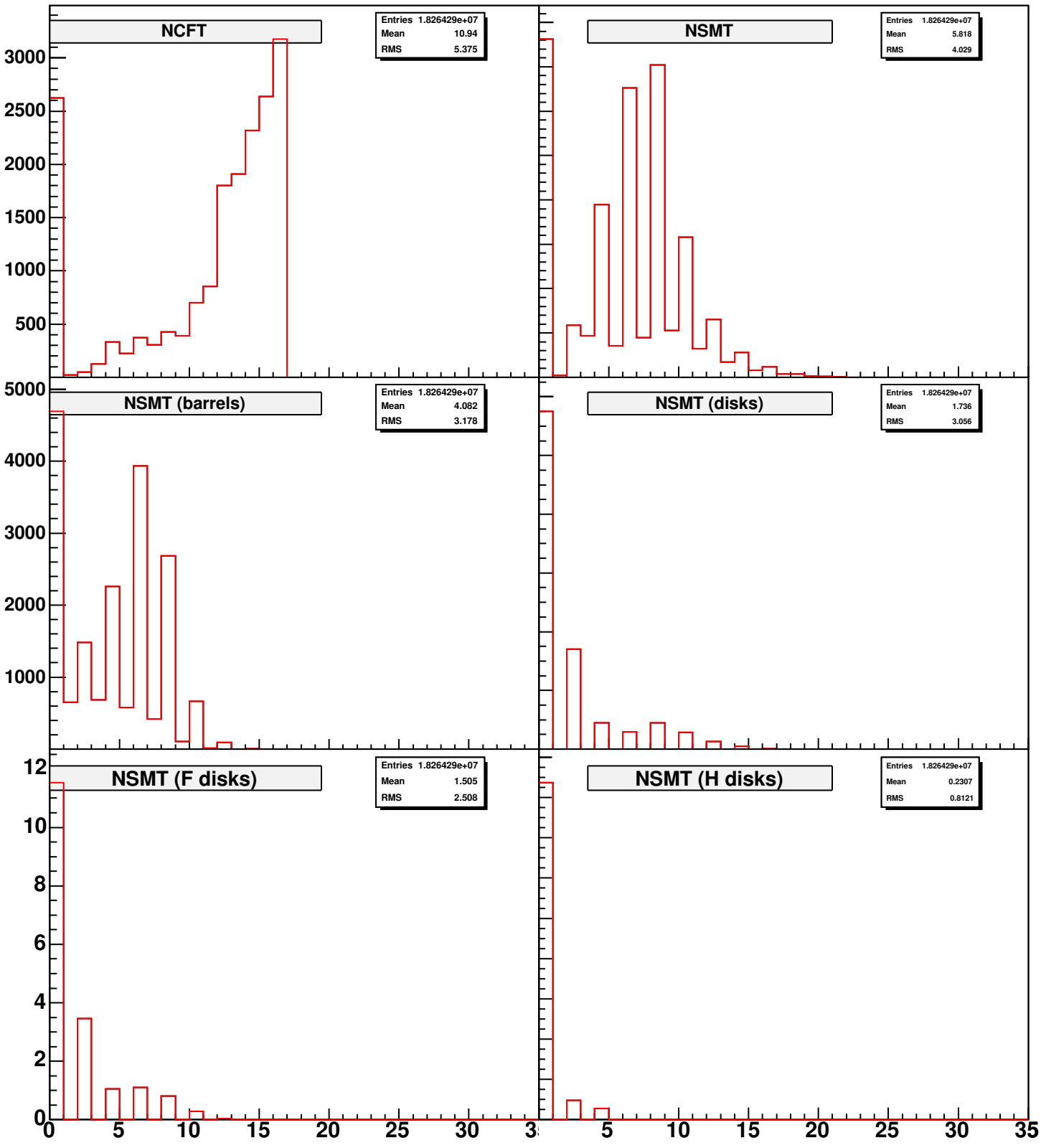
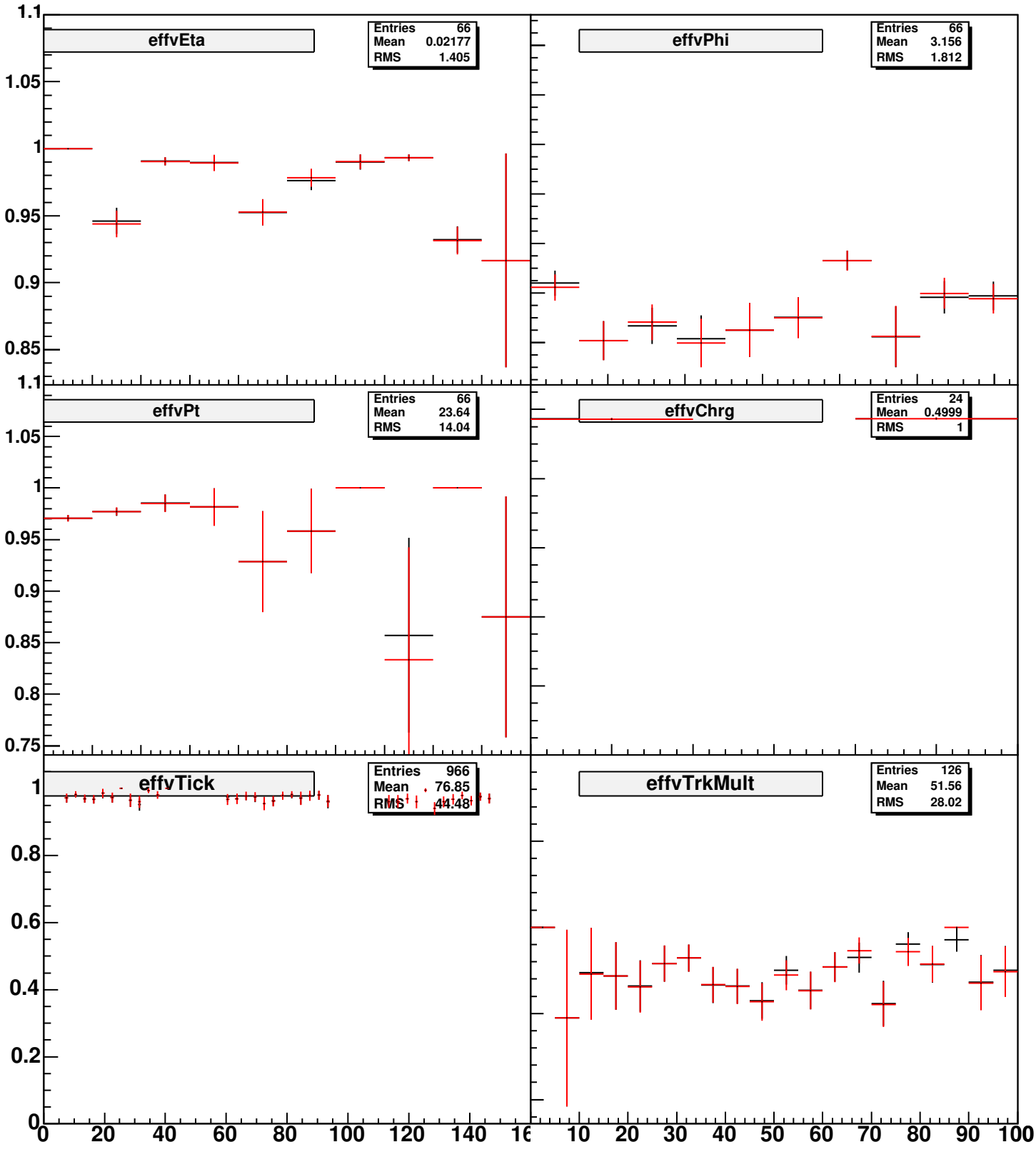
RecoCert_Plots (Index)

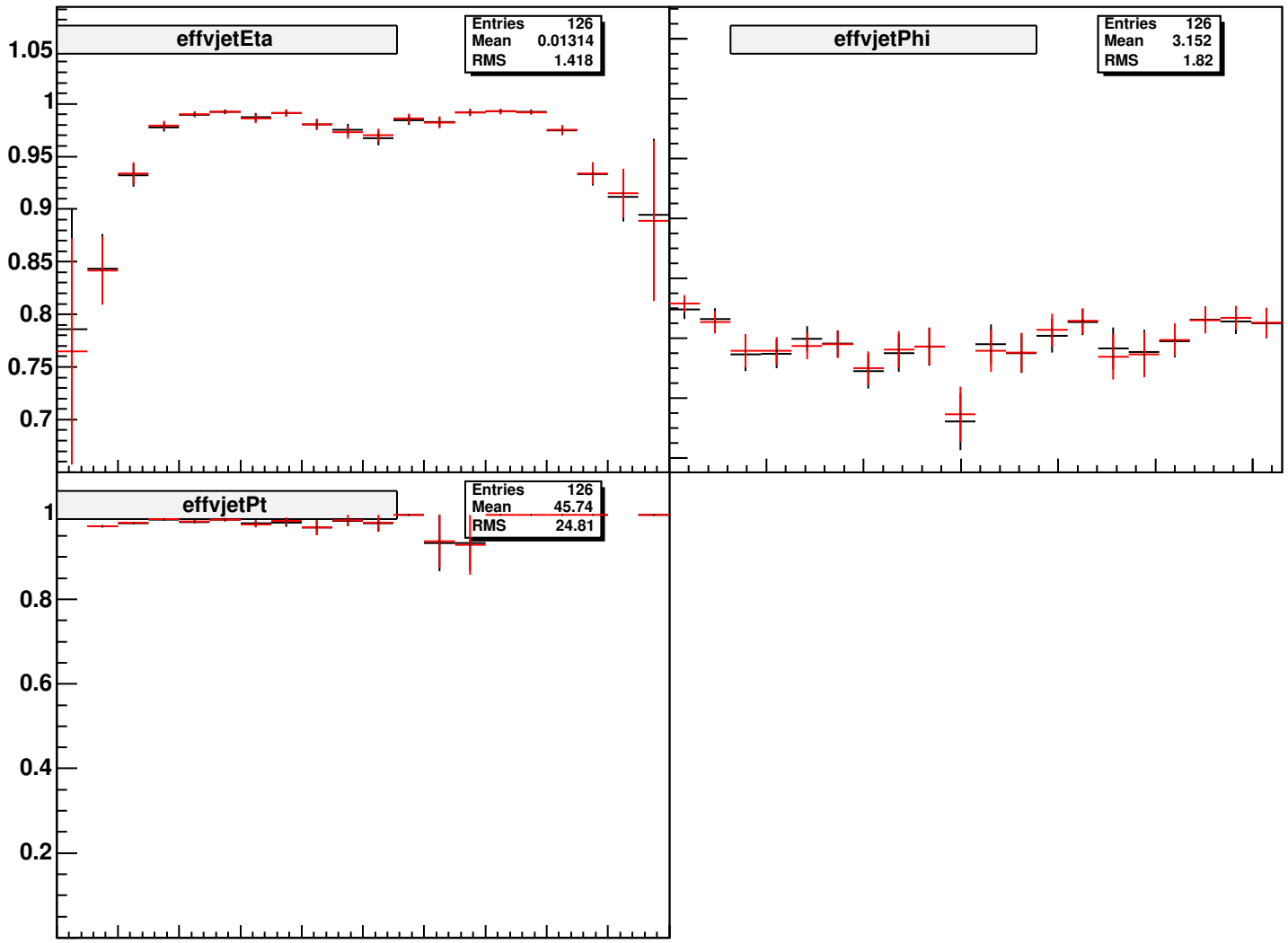

NTRKS
Entries 177437
Mean 102.9
RMS 78.05
Chisq prob
Entries1.826429e+07
Mean 0.1673
RMS 0.2773
log10(PT)
Entries 1.826429e+07
Mean -0.123
RMS 0.3846
PHI at DCA (0,0)
Entries 1.826429e+07
Mean 3.171
RMS 1.831
TANLAM at DCA (0,0)
Entries1.826429e+07
Mean 1.065
RMS 31.72
Z at DCA (0,0)
Entries 1.826429e+07
Mean -0.6874
RMS 27.86
DCA (best vertex)
Entries 1.826429e+07
Mean 0.3273
RMS 18.06
|DCA| (best vertex)
Entries1.826429e+07
Mean 0.6561
RMS 18.05
DCA pull (best vertex)
Entries 1.826429e+07
Mean 0.07332
RMS 54.52
500
240
220
200
180
160
140
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)

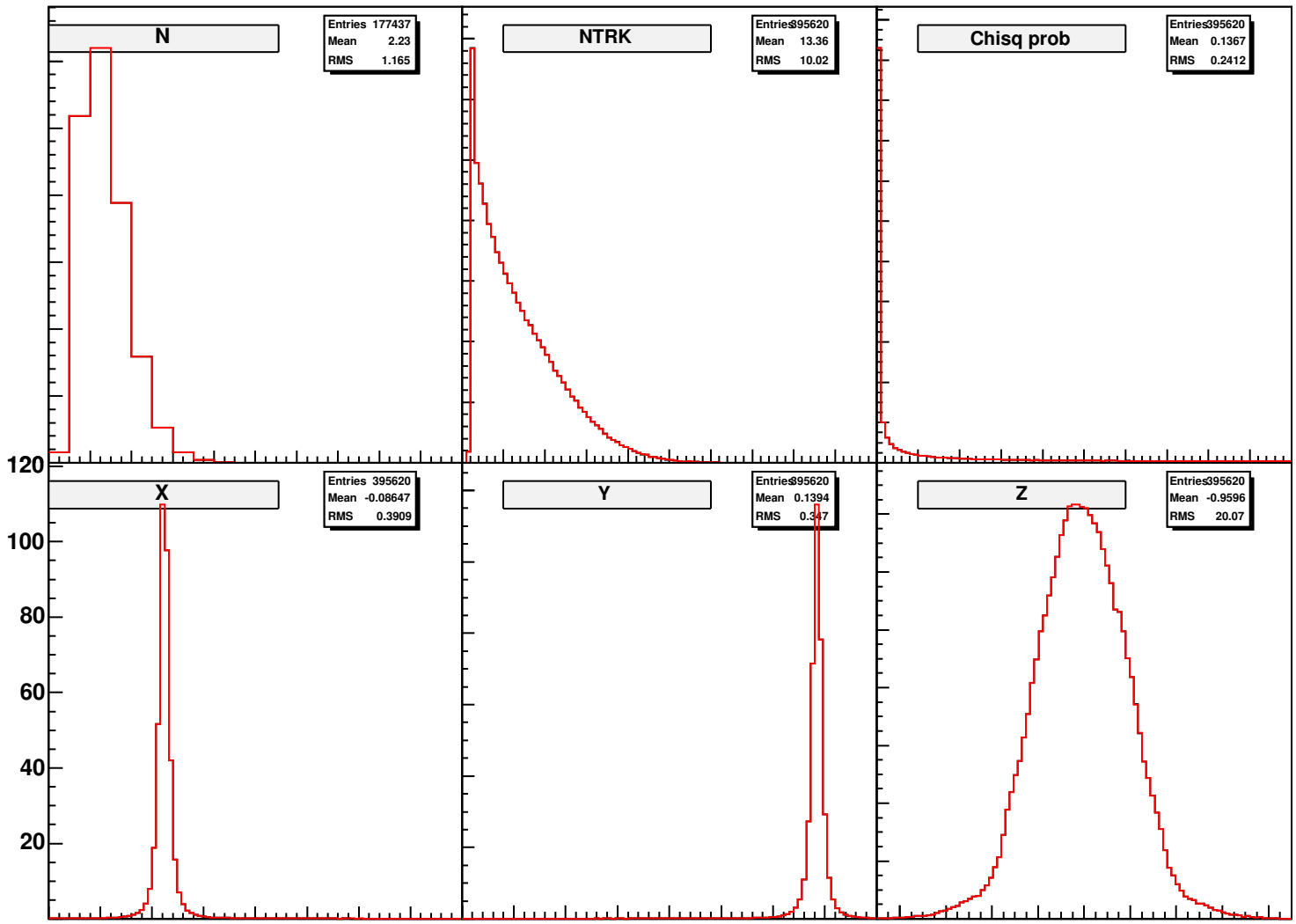

NCFT
Entries 1.826429e+07
Mean 10.94
RMS 5.375
NSMT
Entries 1.826429e+07
Mean 5.818
RMS 4.029
NSMT (barrels)
Entries 1.826429e+07
Mean 4.082
RMS 3.178
NSMT (disks)
Entries 1.826429e+07
Mean 1.736
RMS 3.056
NSMT (F disks)
Entries 1.826429e+07
Mean 1.505
RMS 2.508
NSMT (H disks)
Entries 1.826429e+07
Mean 0.2307
RMS 0.8121
Track Hits (All)



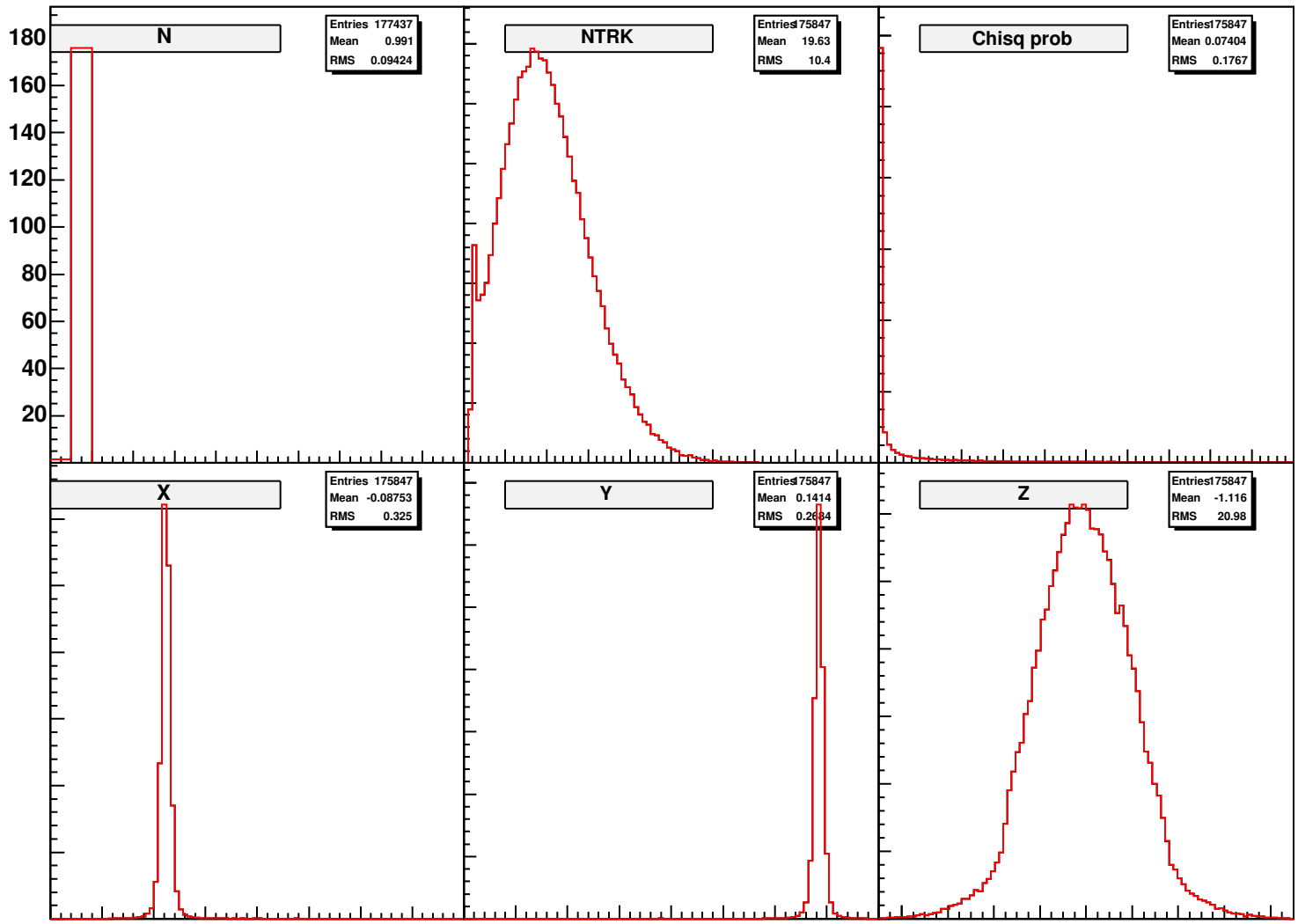
Tracking (Efficiency-Isolated)



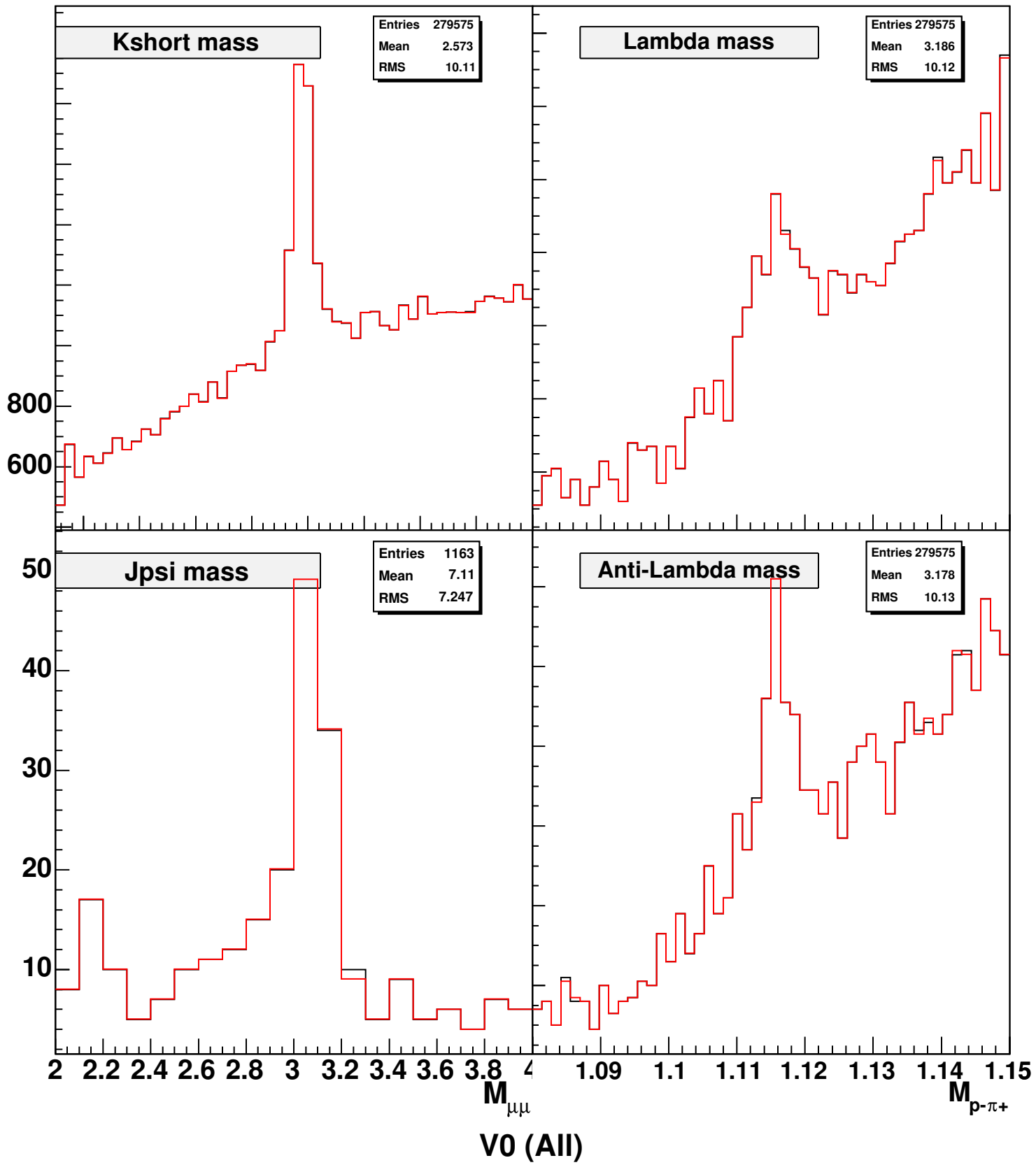
Tracking (Efficiency-InJets)

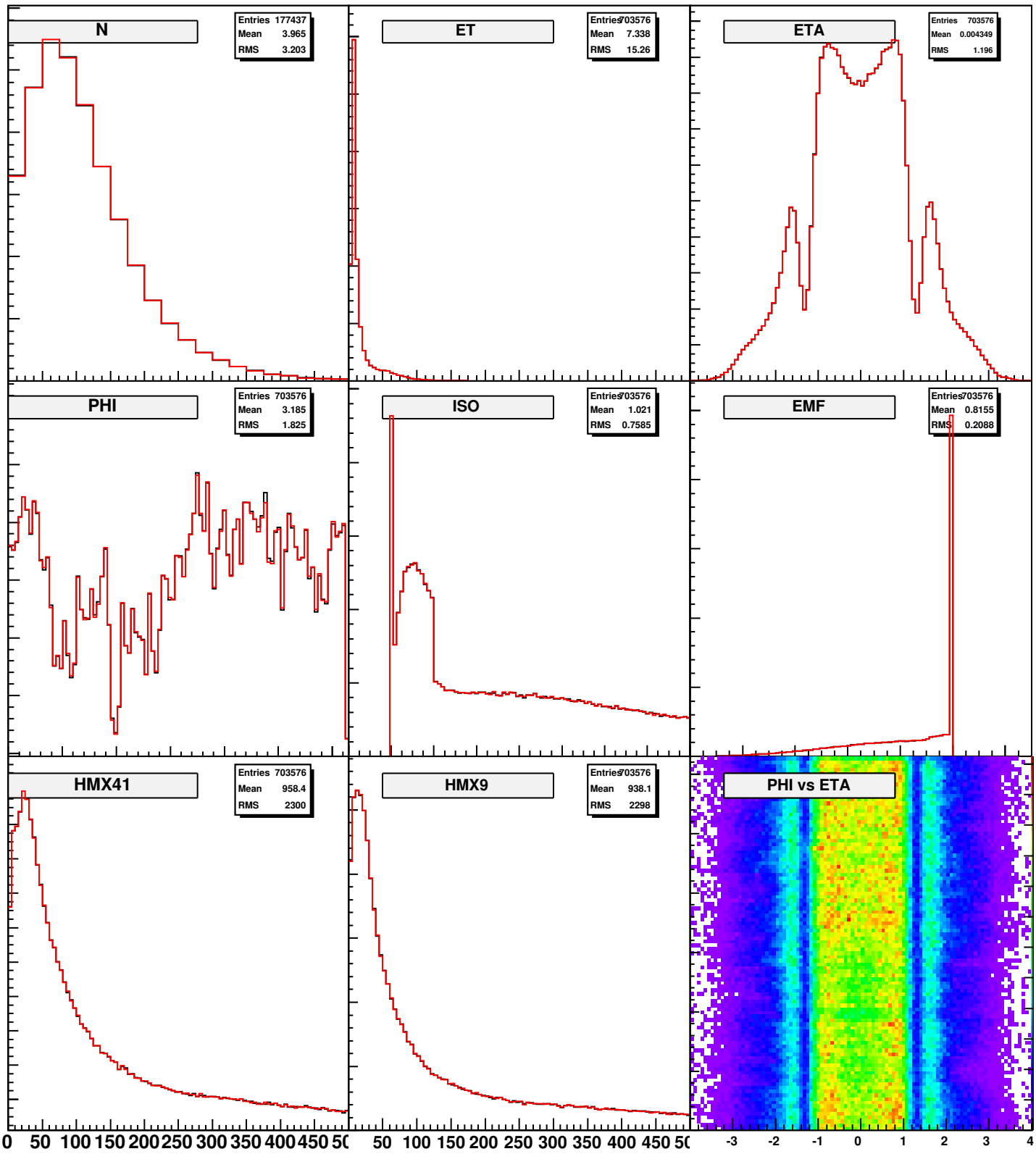


Vertices (Primary - all candidates)

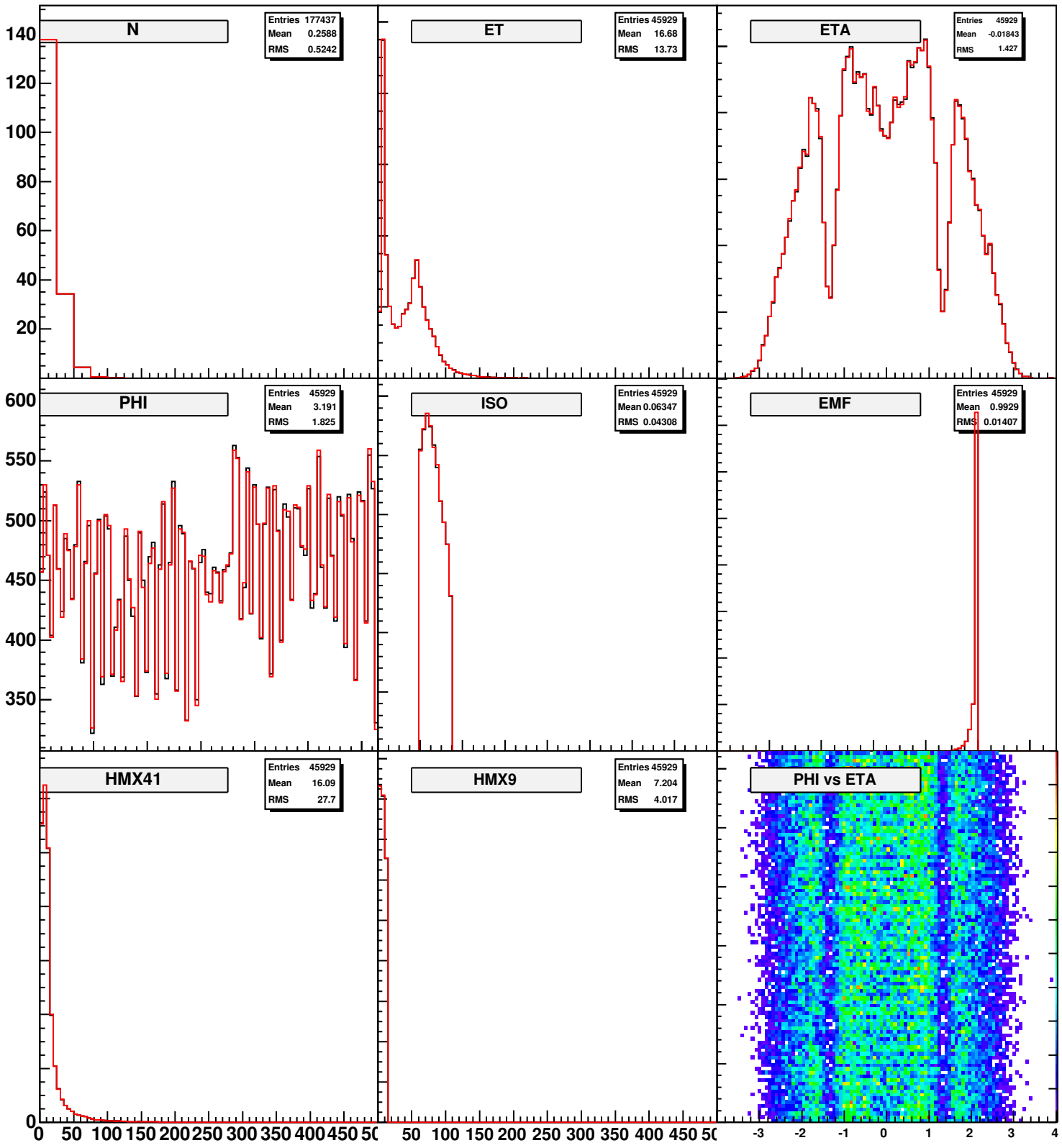


Vertices (Primary - best)

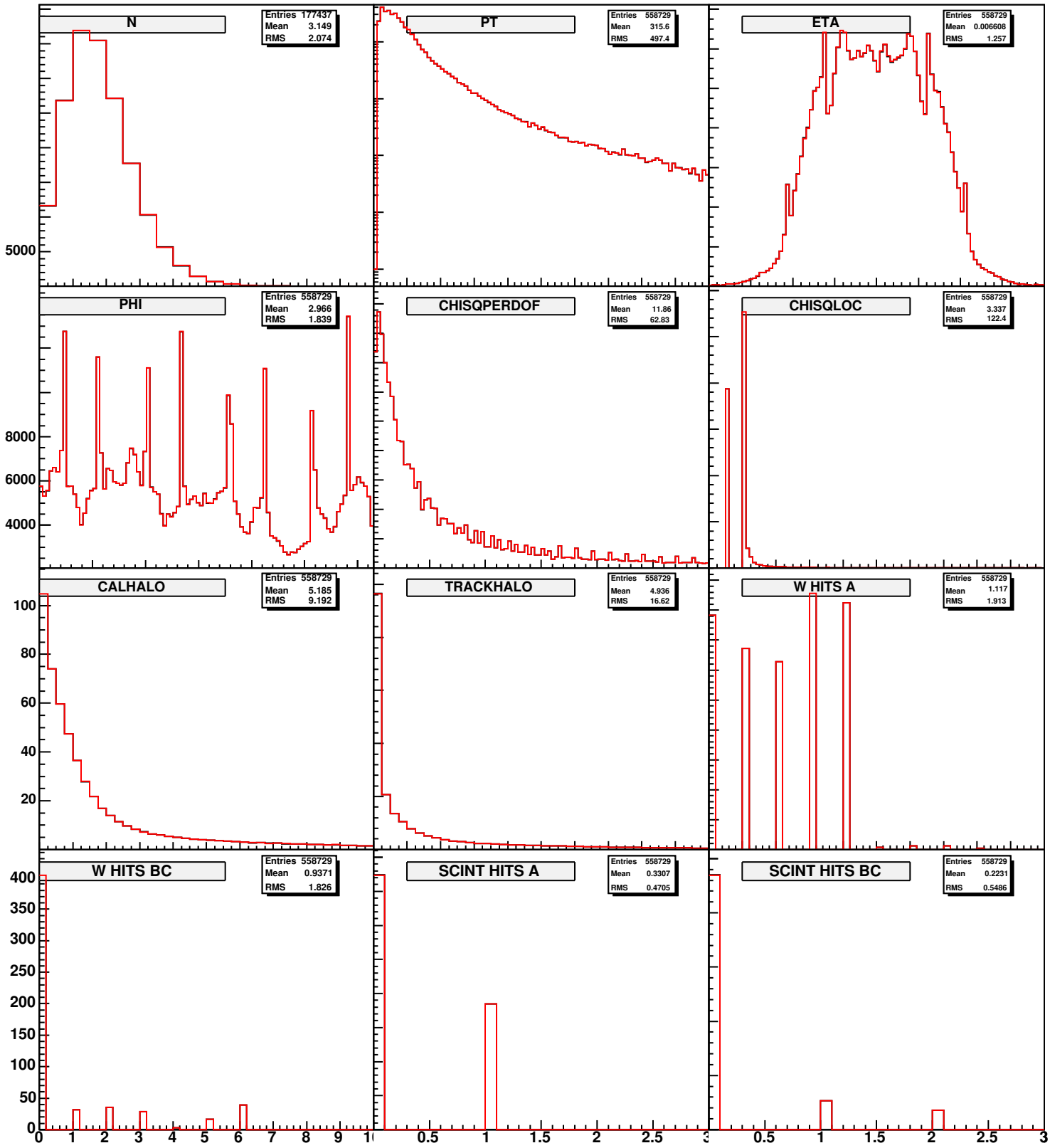

Kshort mass
Entries 279575
Mean 2.573
RMS 10.11
Lambda mass
Entries 279575
Mean 3.186
RMS 10.12
Jpsi mass
Entries 1163
Mean 7.11
RMS 7.247
Anti-Lambda mass
Entries 279575
Mean 3.178
RMS 10.13
800
600
50
40
30
20
10
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
M$_{\mu\mu}$
1.09 1.1 1.11 1.12 1.13 1.14 1.15
M$_{p\text{-}\pi+}$
V0 (All)



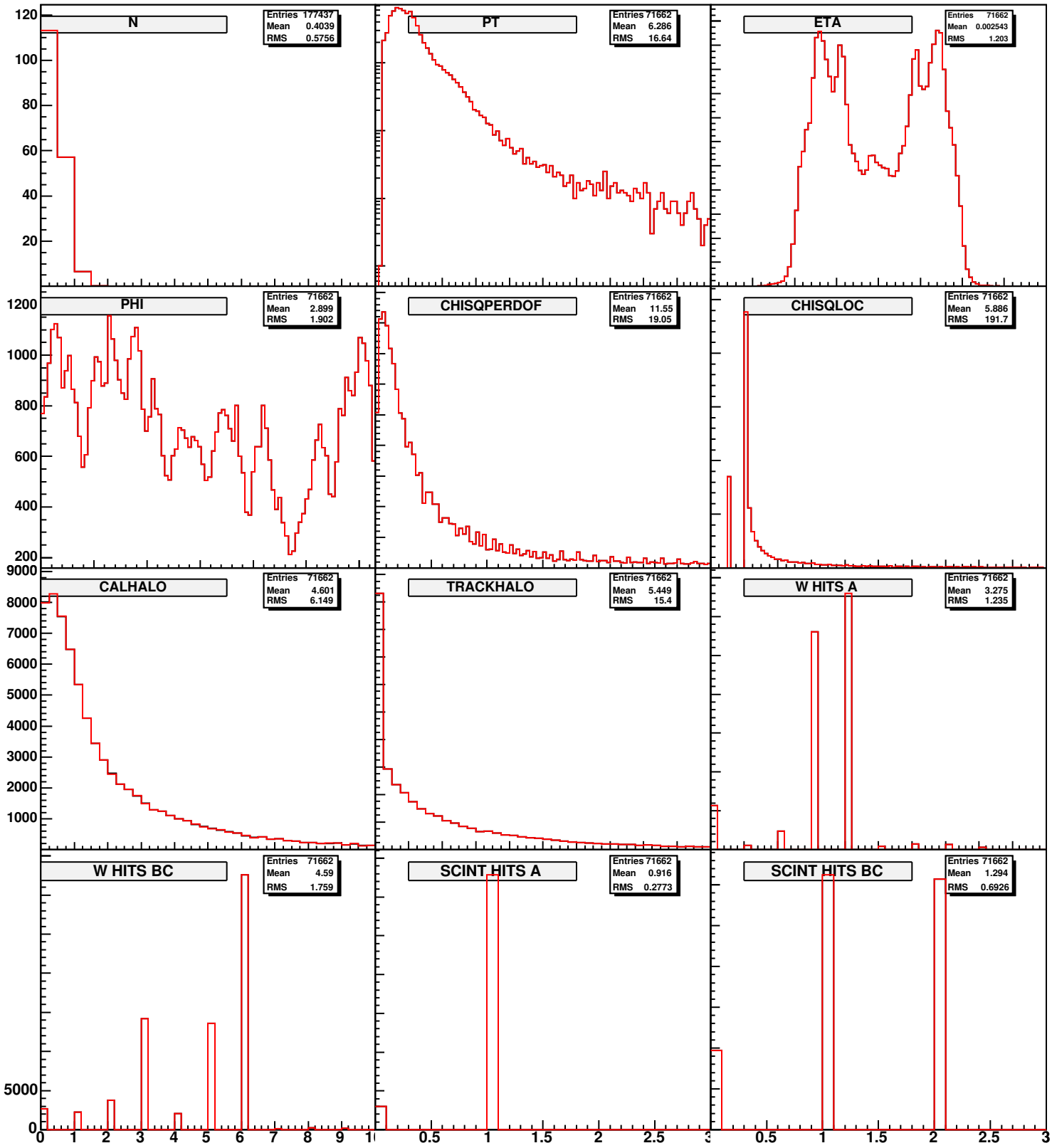
Electrons (SCONE All)



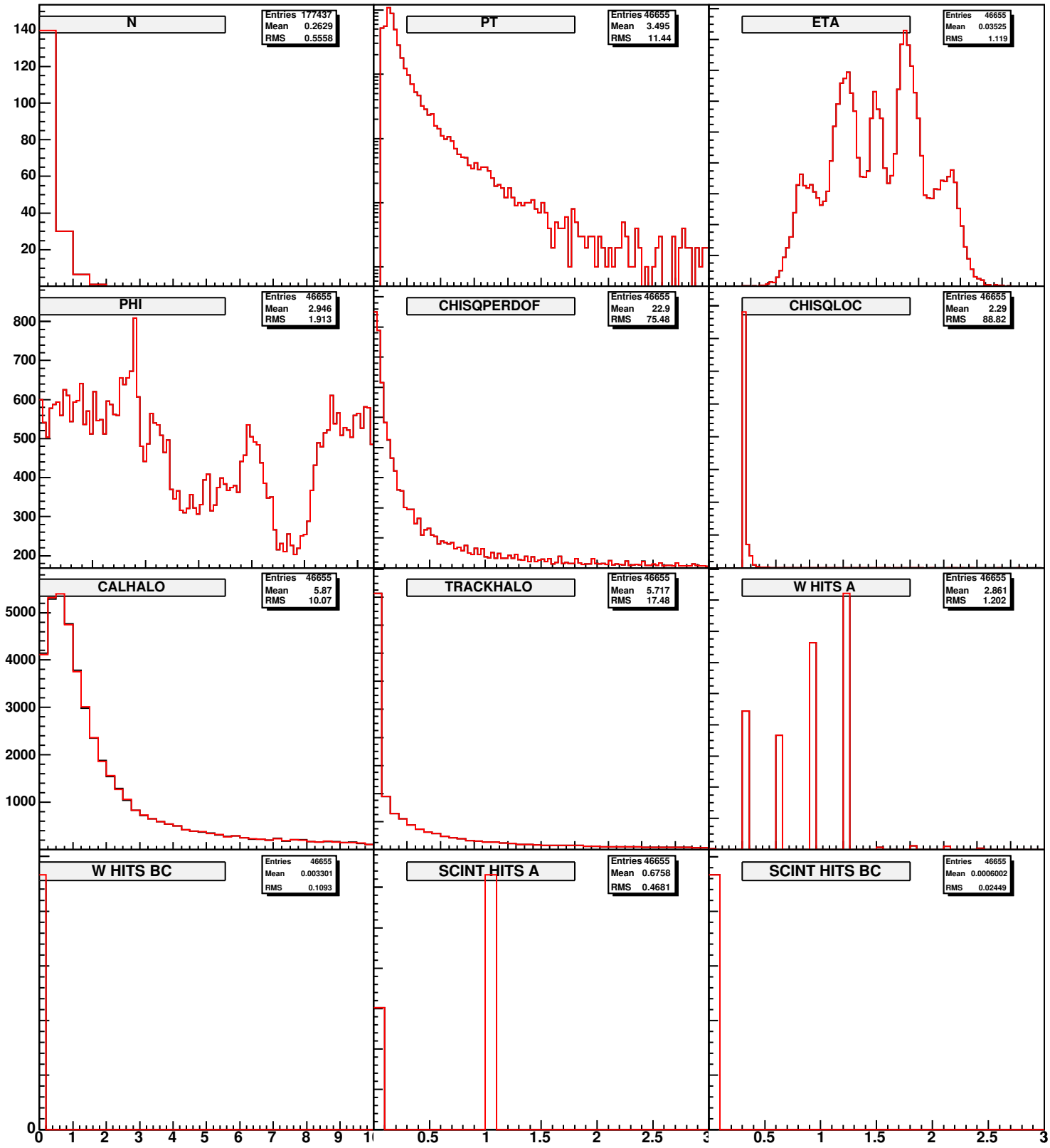
Electrons (SCONE Tight)


N
Entries 177437
Mean 3.149
RMS 2.074
PT
Entries 558729
Mean 315.6
RMS 497.4
ETA
Entries 558729
Mean 0.006608
RMS 1.257
PHI
Entries 558729
Mean 2.966
RMS 1.839
CHISQPERDOF
Entries 558729
Mean 11.86
RMS 62.83
CHISQLOC
Entries 558729
Mean 3.337
RMS 122.4
CALHALO
Entries 558729
Mean 5.185
RMS 9.192
TRACKHALO
Entries 558729
Mean 4.936
RMS 16.62
W HITS A
Entries 558729
Mean 1.117
RMS 1.913
W HITS BC
Entries 558729
Mean 0.9371
RMS 1.826
SCINT HITS A
Entries 558729
Mean 0.3307
RMS 0.4705
SCINT HITS BC
Entries 558729
Mean 0.2231
RMS 0.5486

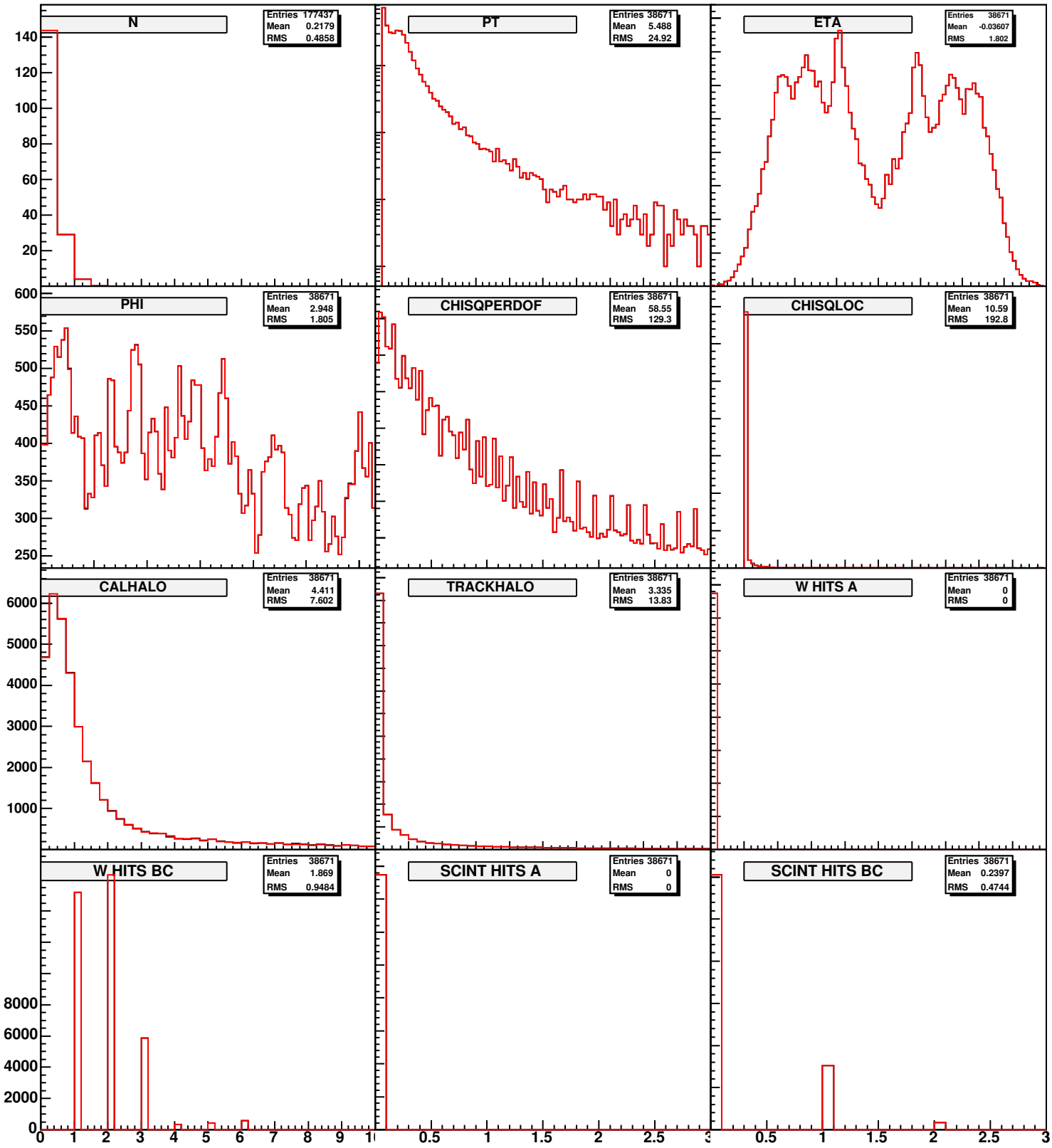
Muons (All)



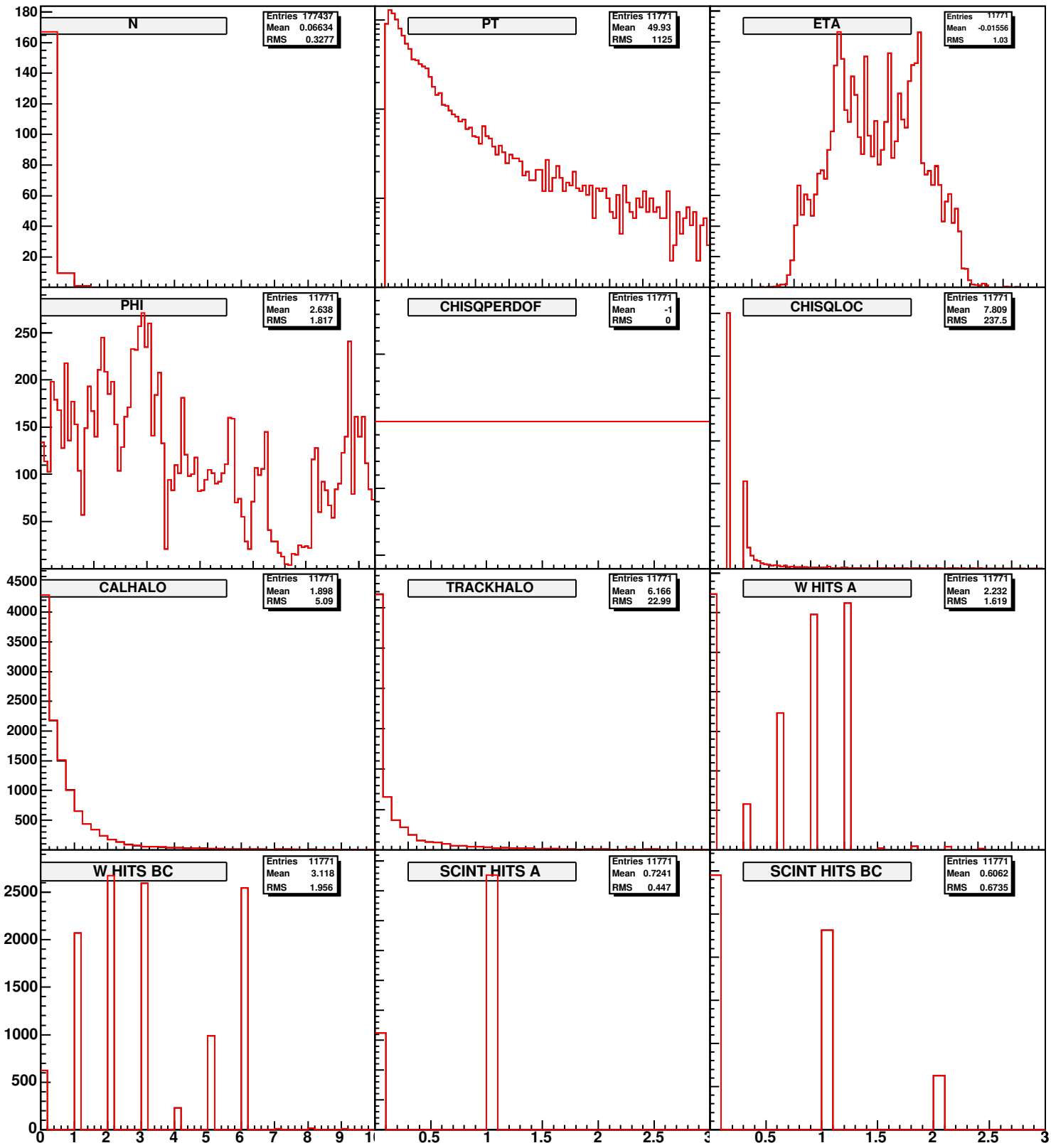
Muons (Matched)


N
Entries 177437
Mean 0.2629
RMS 0.5558
PT
Entries 46655
Mean 3.495
RMS 11.44
ETA
Entries 46655
Mean 0.03525
RMS 1.119
PHI
Entries 46655
Mean 2.946
RMS 1.913
CHISQPERDOF
Entries 46655
Mean 22.9
RMS 75.48
CHISQLOC
Entries 46655
Mean 2.29
RMS 88.82
CALHALO
Entries 46655
Mean 5.87
RMS 10.07
TRACKHALO
Entries 46655
Mean 5.717
RMS 17.48
W HITS A
Entries 46655
Mean 2.861
RMS 1.202
W HITS BC
Entries 46655
Mean 0.003301
RMS 0.1093
SCINT HITS A
Entries 46655
Mean 0.6758
RMS 0.4681
SCINT HITS BC
Entries 46655
Mean 0.0006002
RMS 0.02449

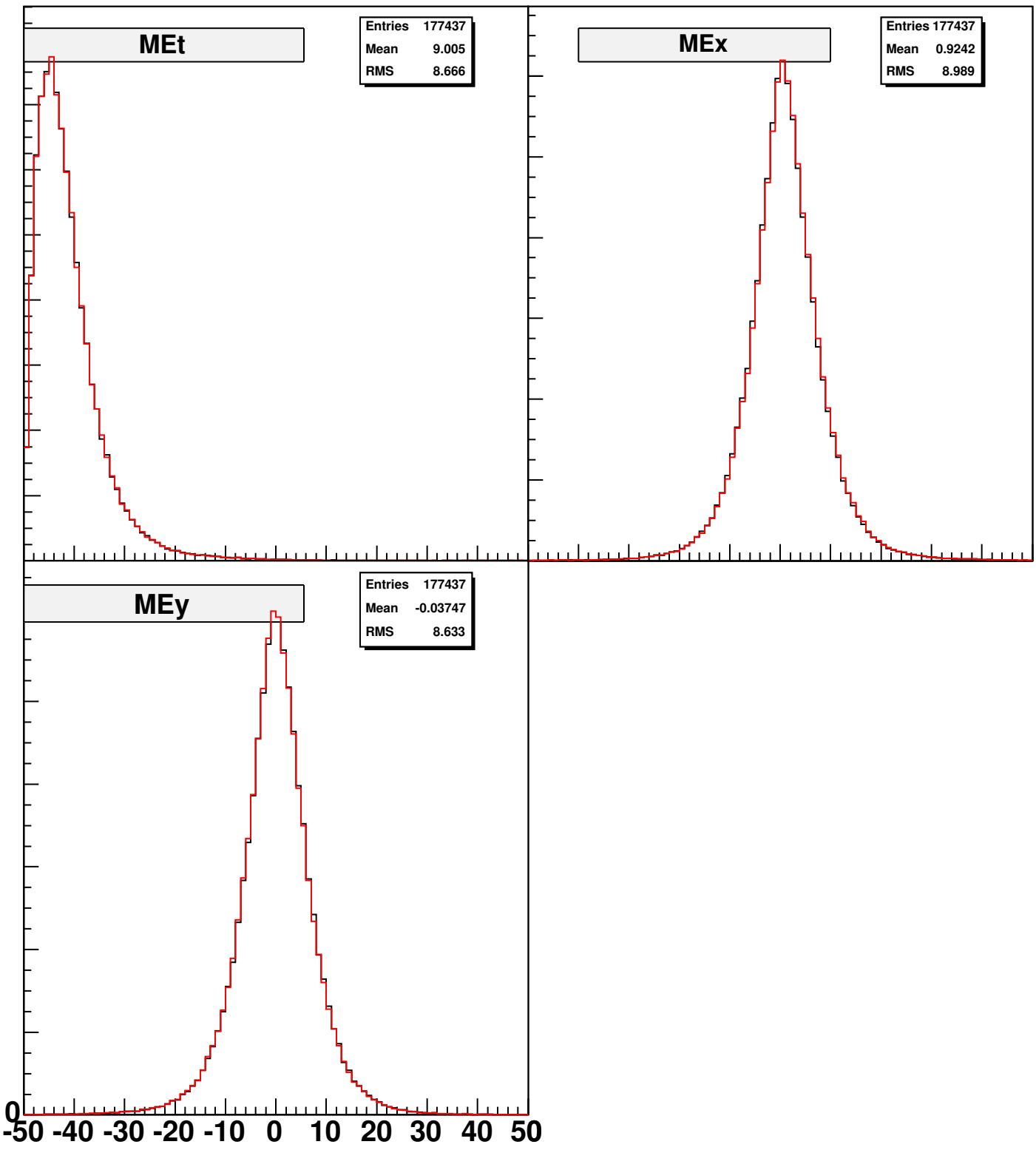
Muons (Astub)



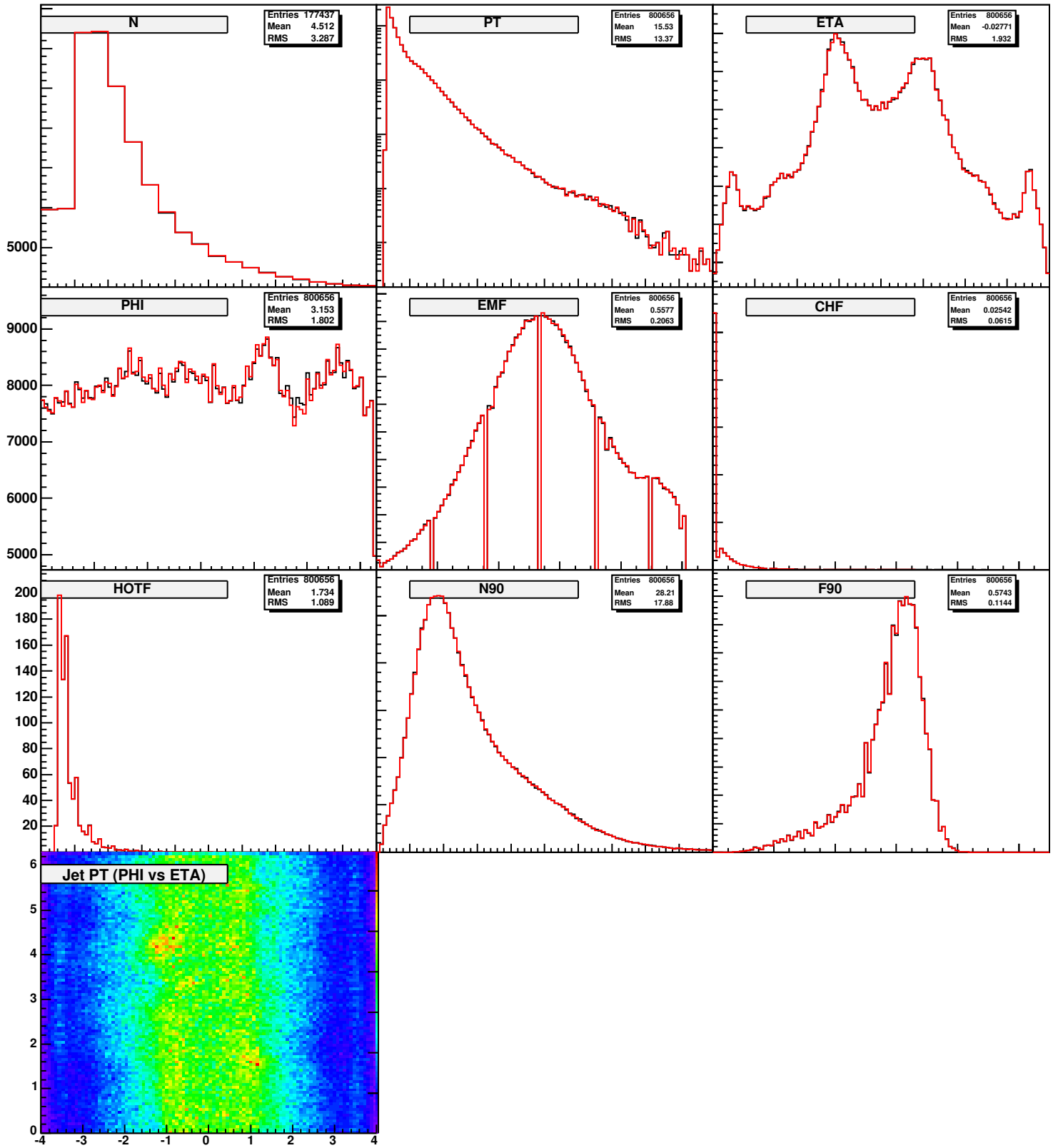
Muons (BCstub)



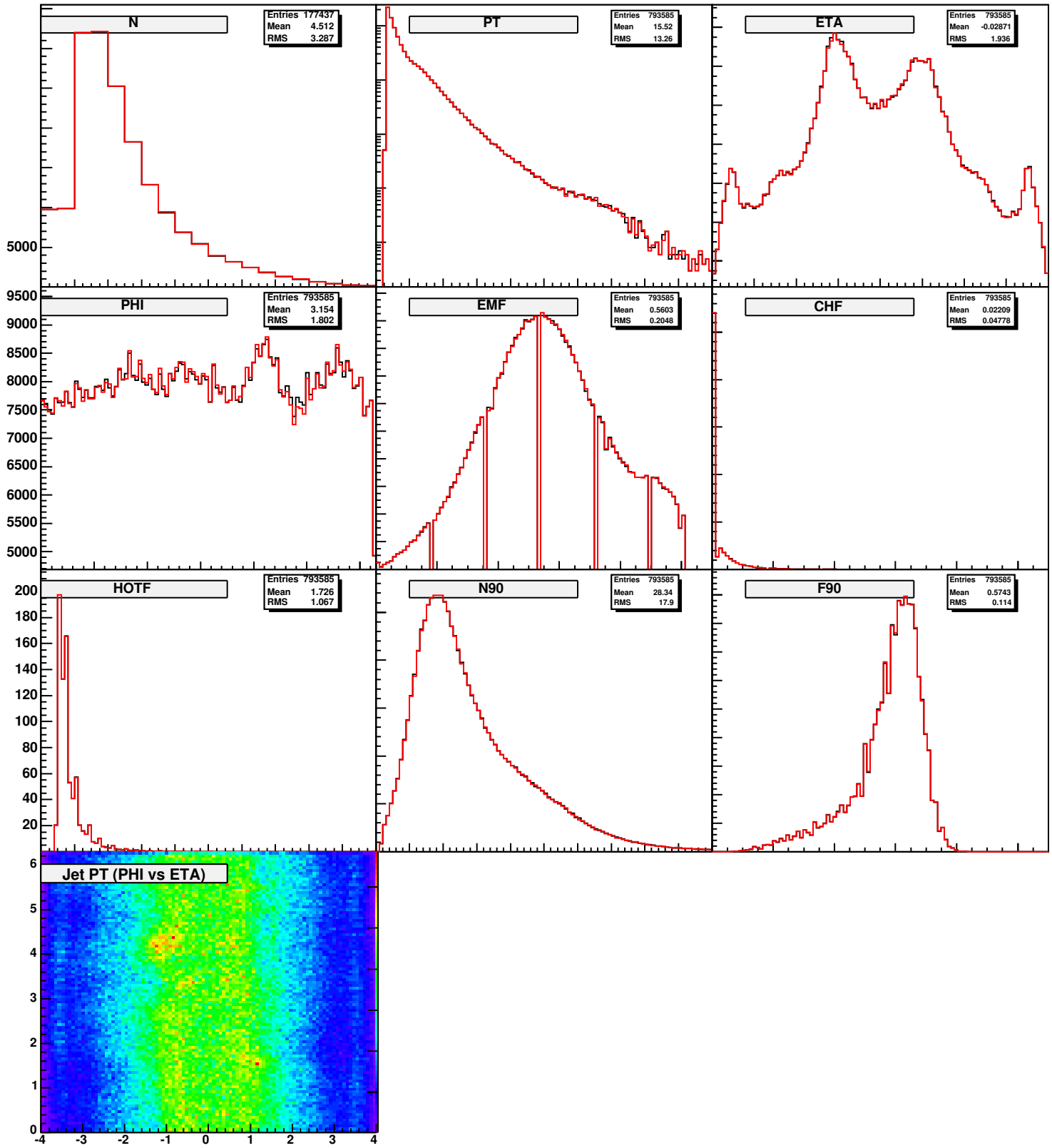
Muons (Unmatched)


MEt
Entries 177437
Mean 9.005
RMS 8.666
MEx
Entries 177437
Mean 0.9242
RMS 8.989
MEy
Entries 177437
Mean -0.03747
RMS 8.633
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

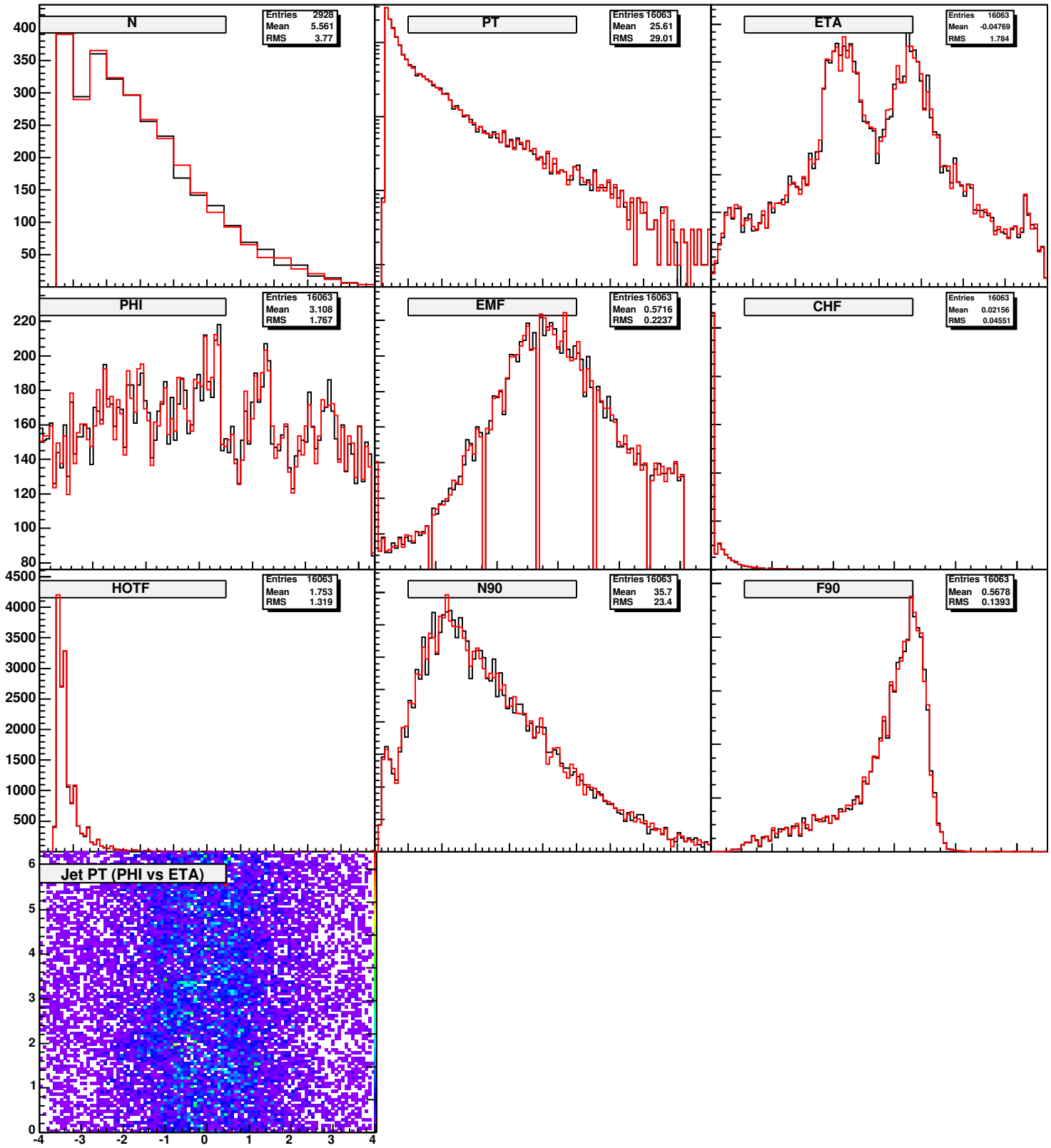
Met (No cuts)



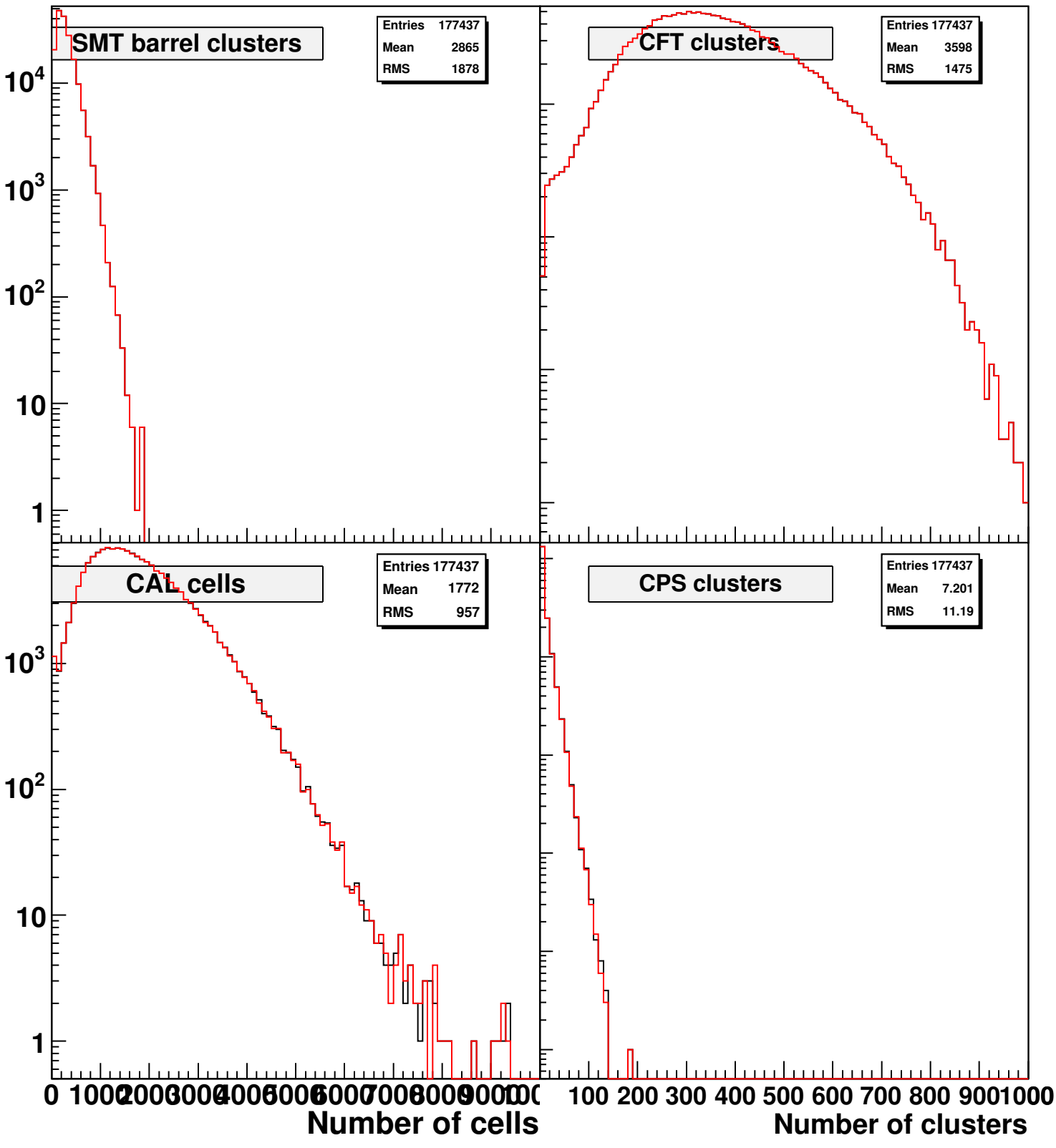
Jets (Cone R 0.7 (no cuts))

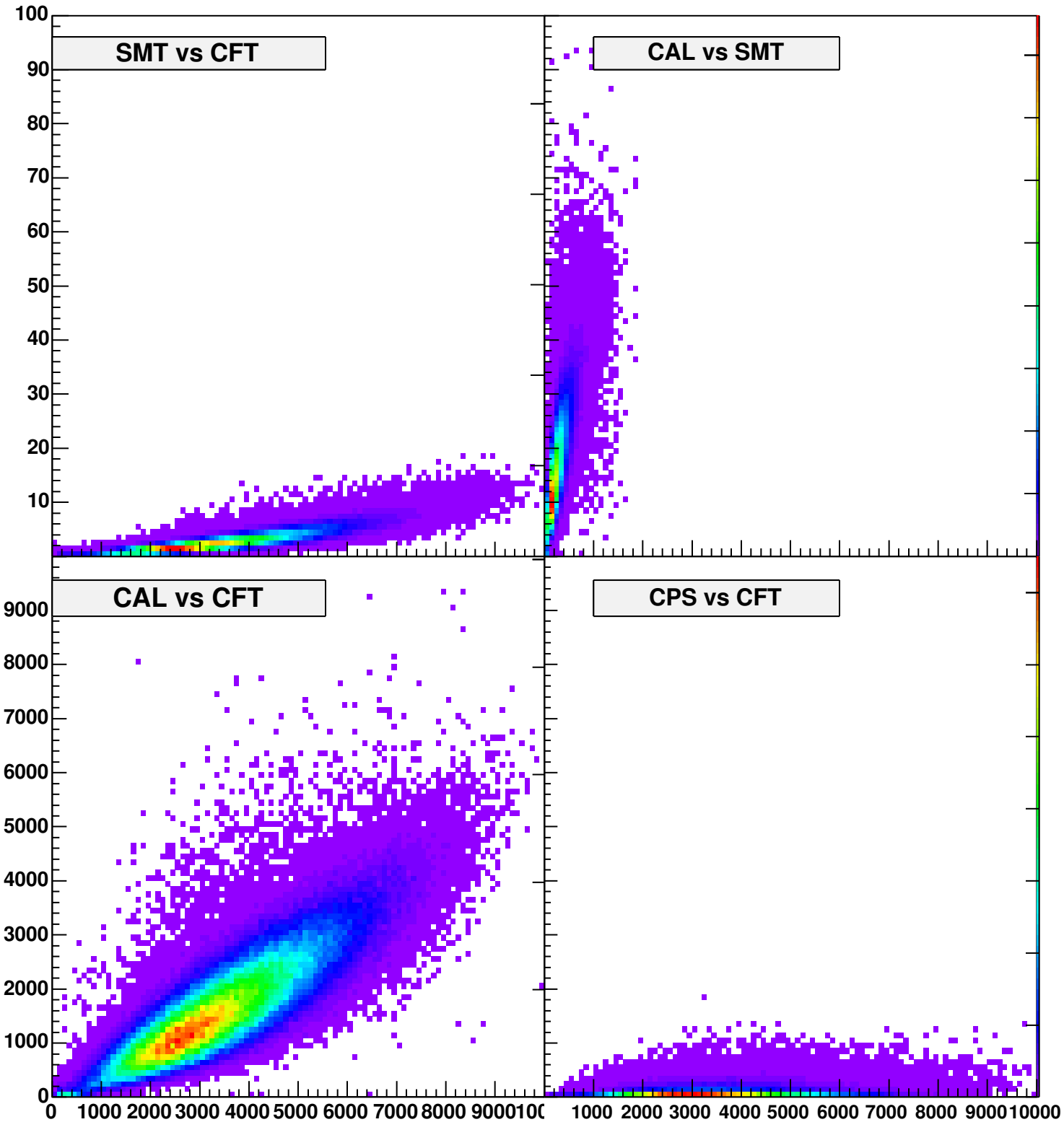


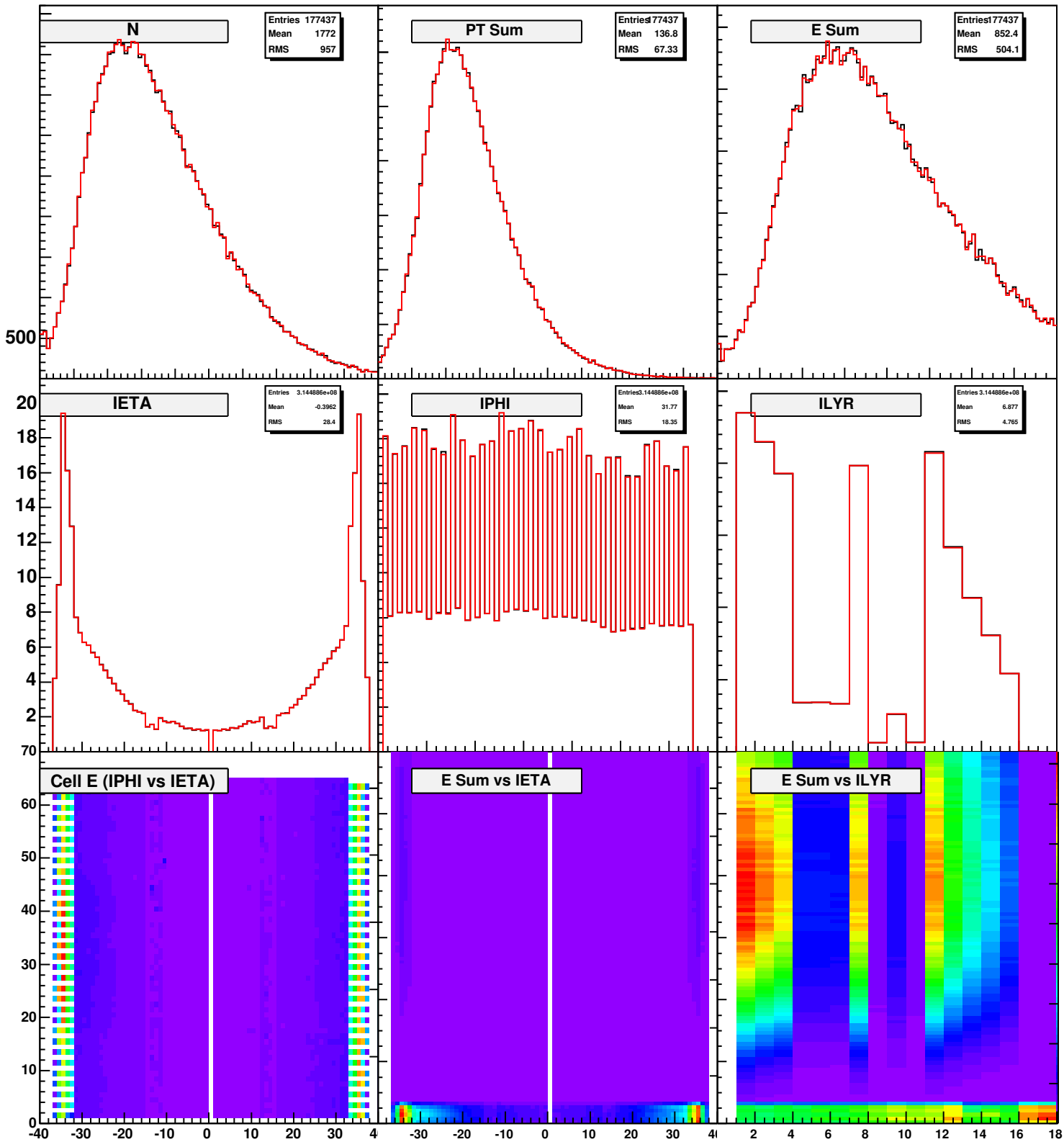
Jets (Cone R 0.7 (standard cuts))



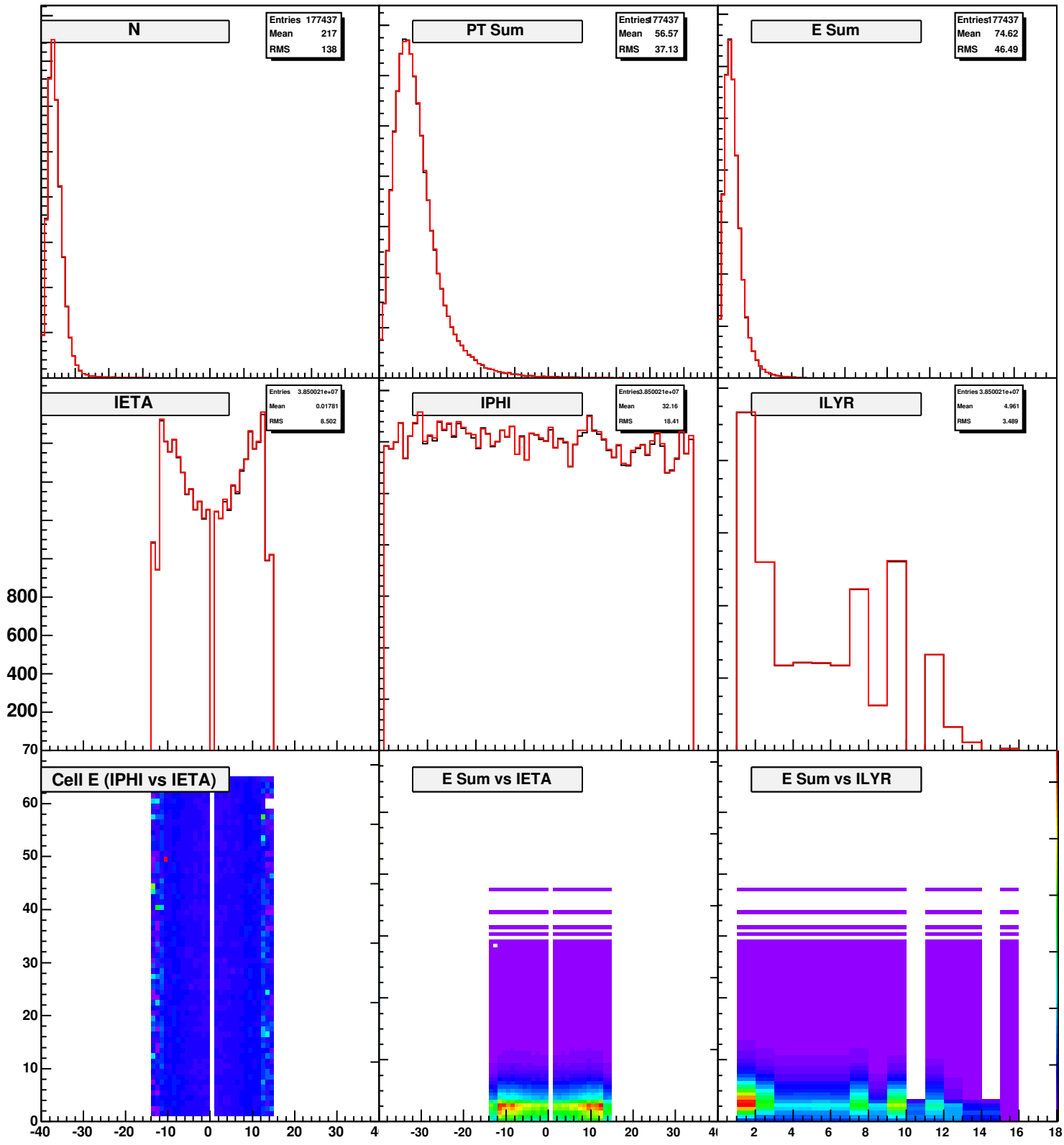
Jets (Cone R 0.7 (standard cuts, MET>30))


SMT barrel clusters
Entries 177437
Mean 2865
RMS 1878
CFT clusters
Entries 177437
Mean 3598
RMS 1475
CAL cells
Entries 177437
Mean 1772
RMS 957
CPS clusters
Entries 177437
Mean 7.201
RMS 11.19
Number of cells
Number of clusters
Detector Occupancy (Detector)

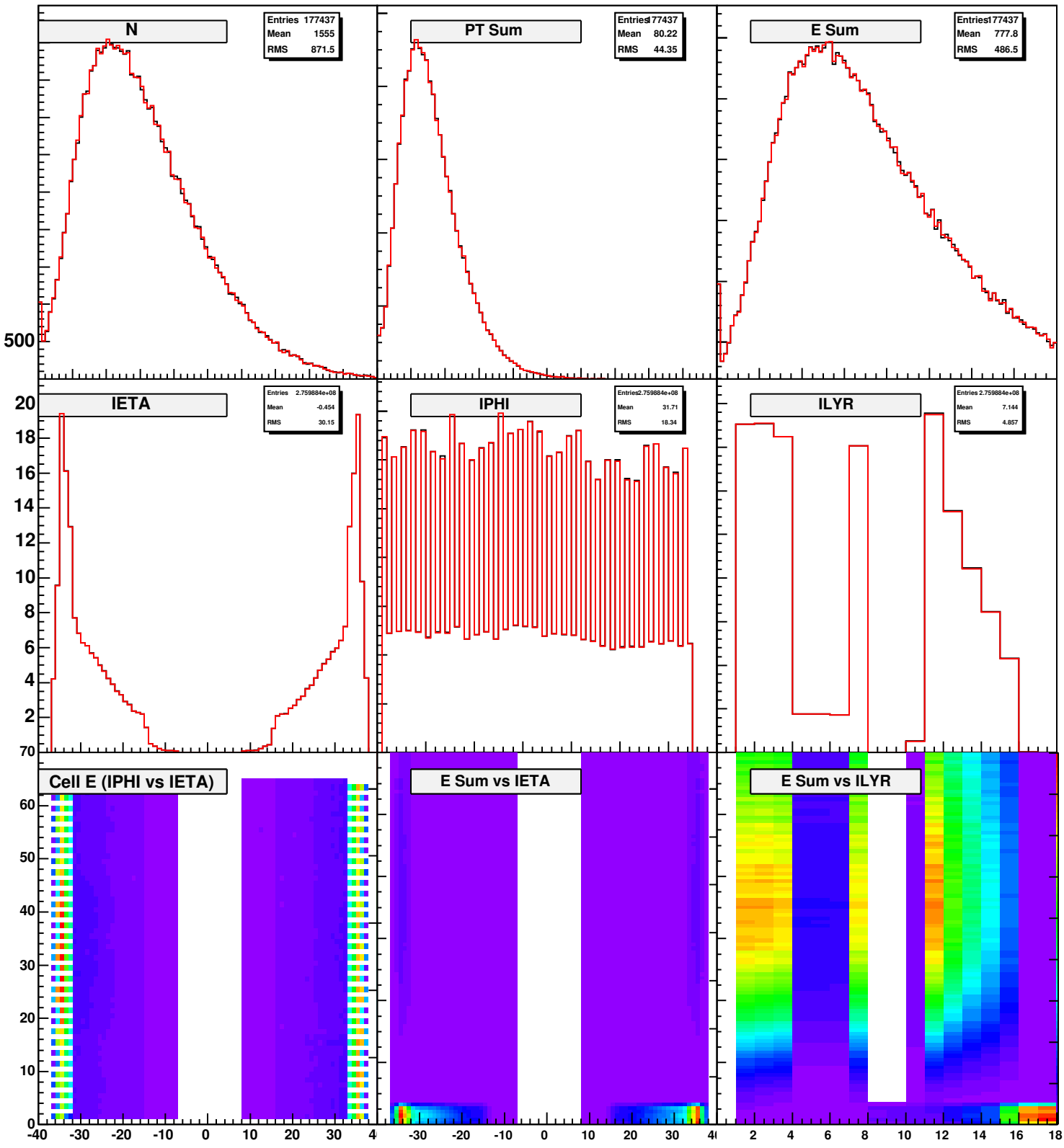

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
100
90
80
70
60
50
40
30
20
10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Detector Occupancy (Detector)



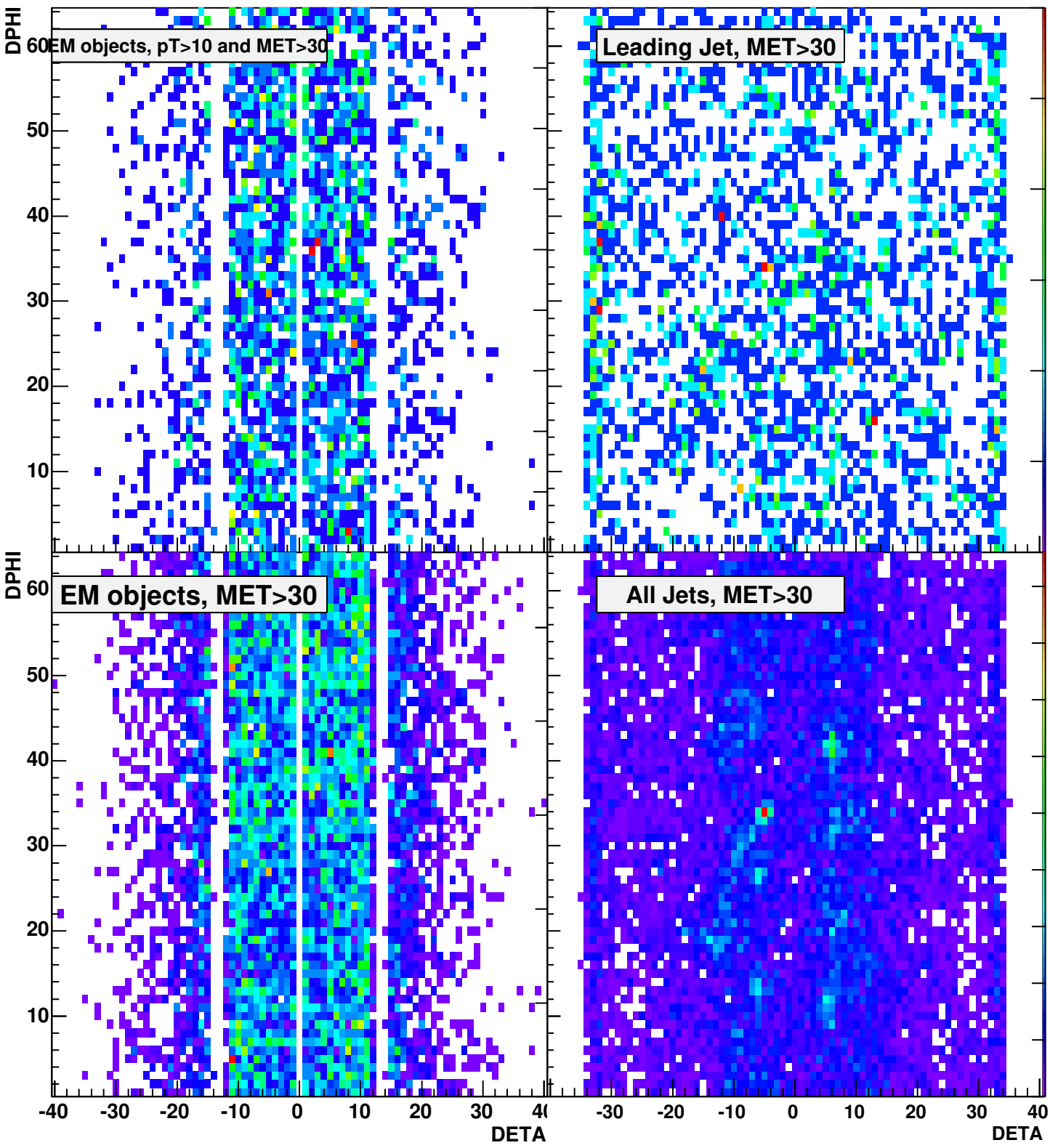
Calorimeter (All cells)



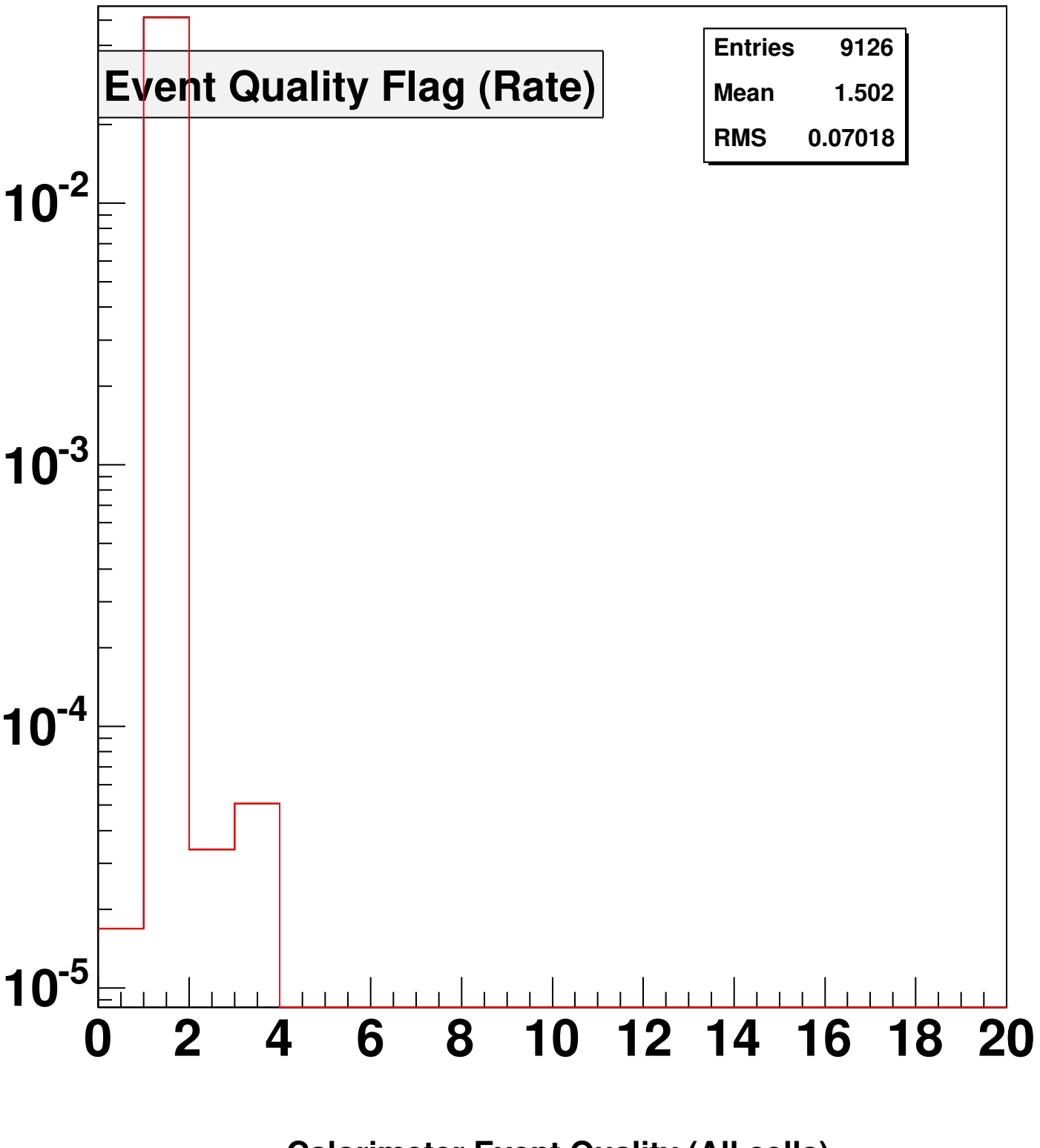
Calorimeter (All CC cells)

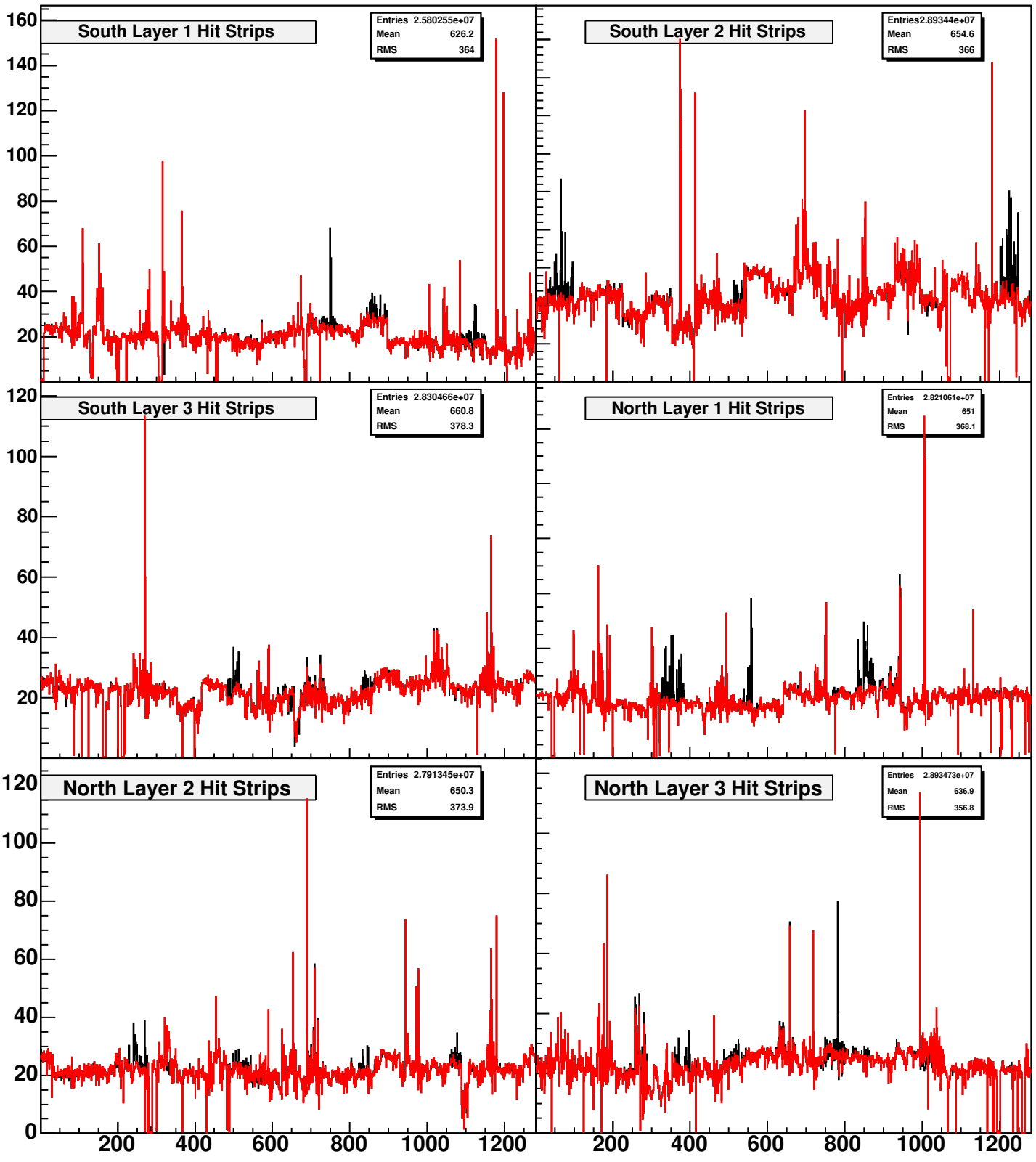


Calorimeter (All EC cells)

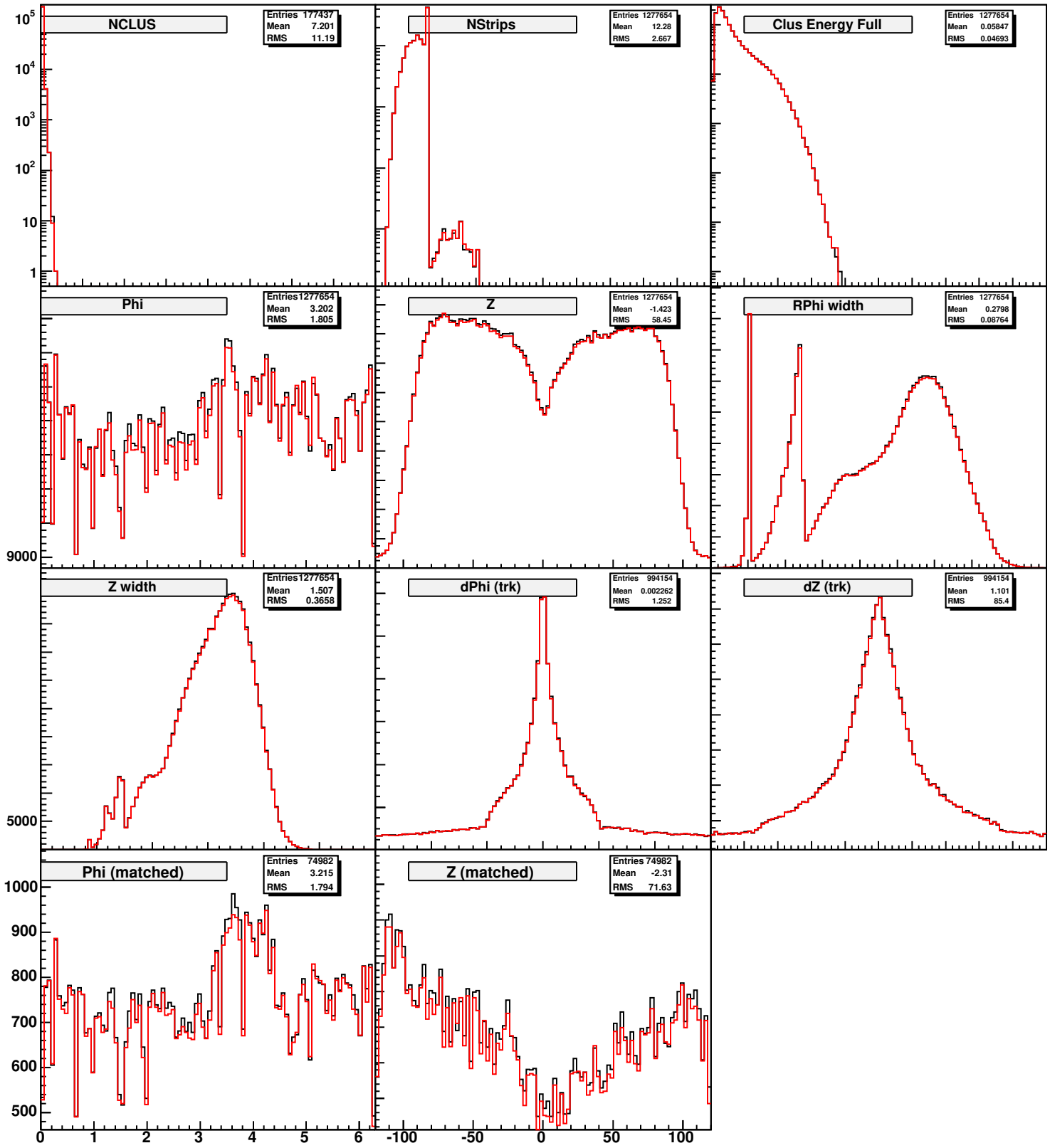


Cal Objects with MET>30 (All cells)

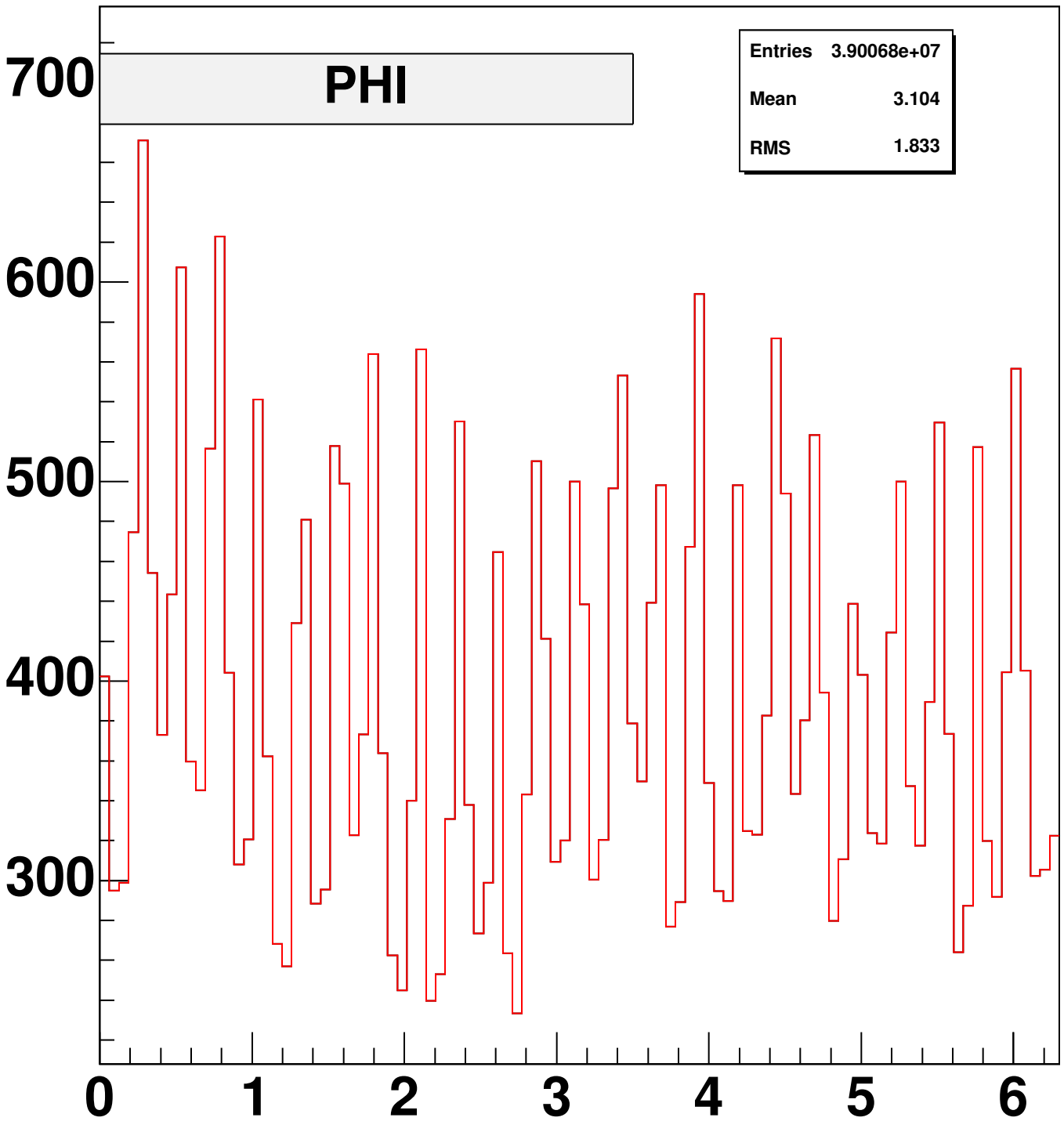

Event Quality Flag (Rate)
Entries 9126
Mean 1.502
RMS 0.07018
10-2
10-3
10-4
10-5
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

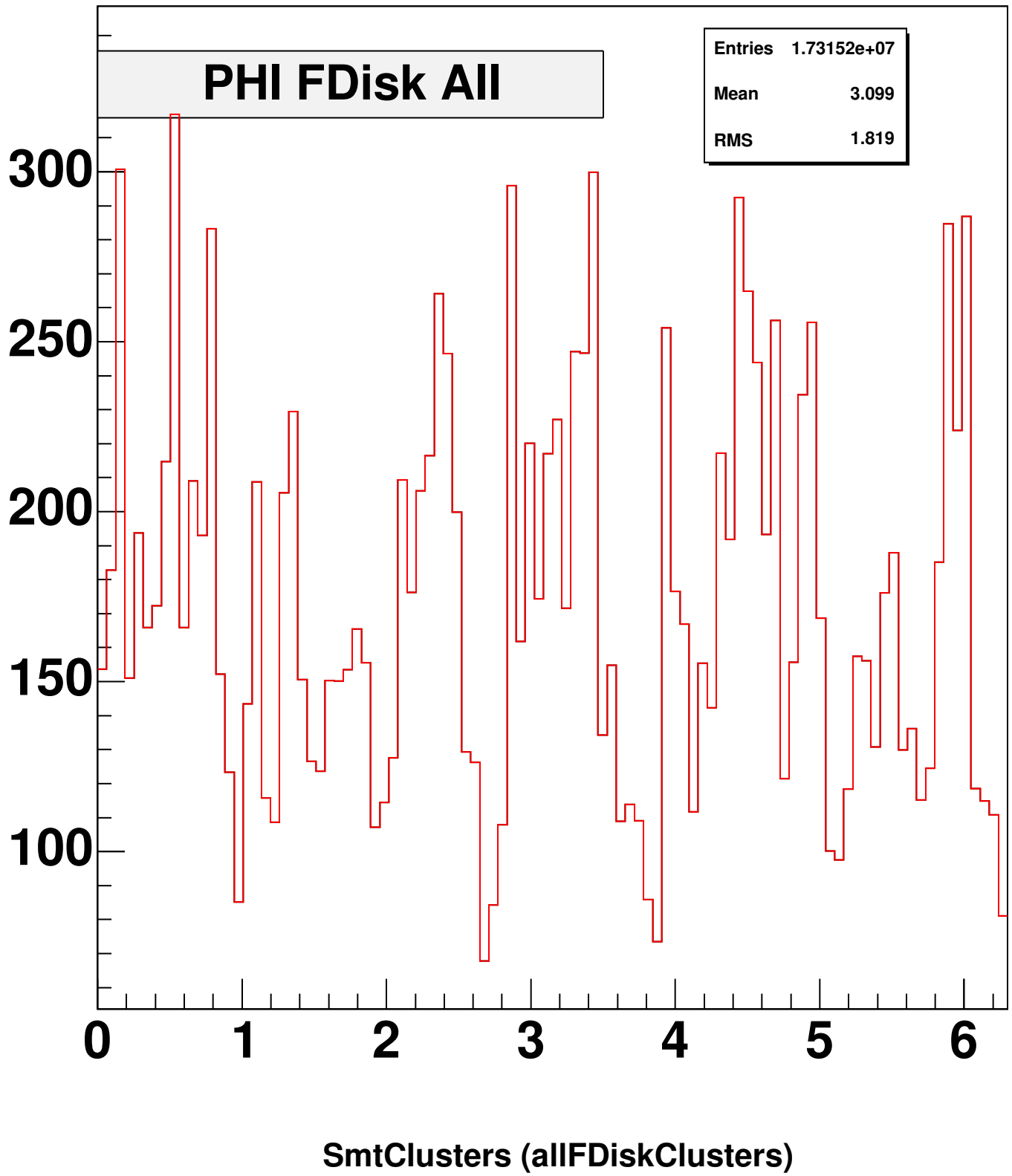


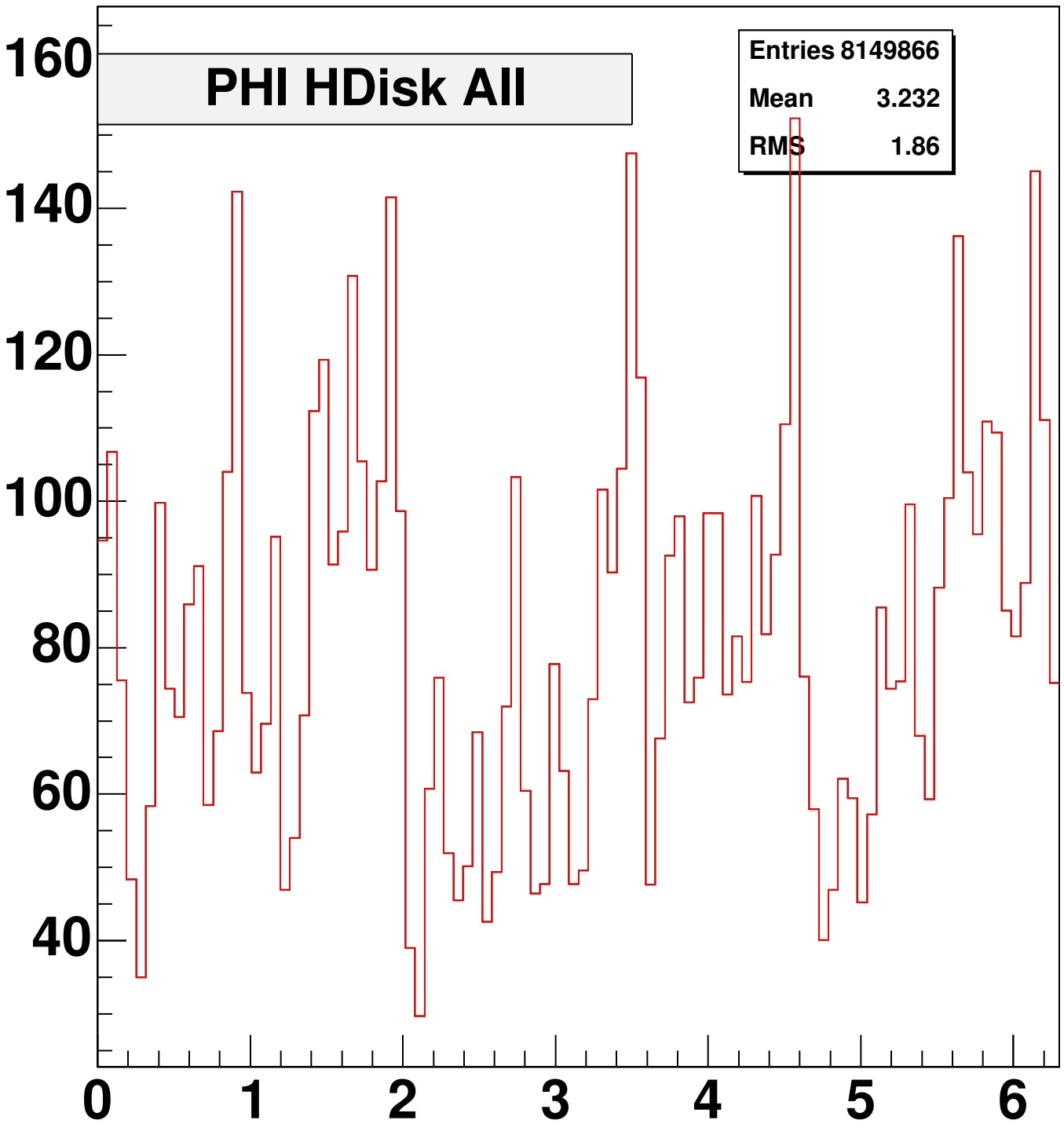
CPS Hit Strips (All Clusters)

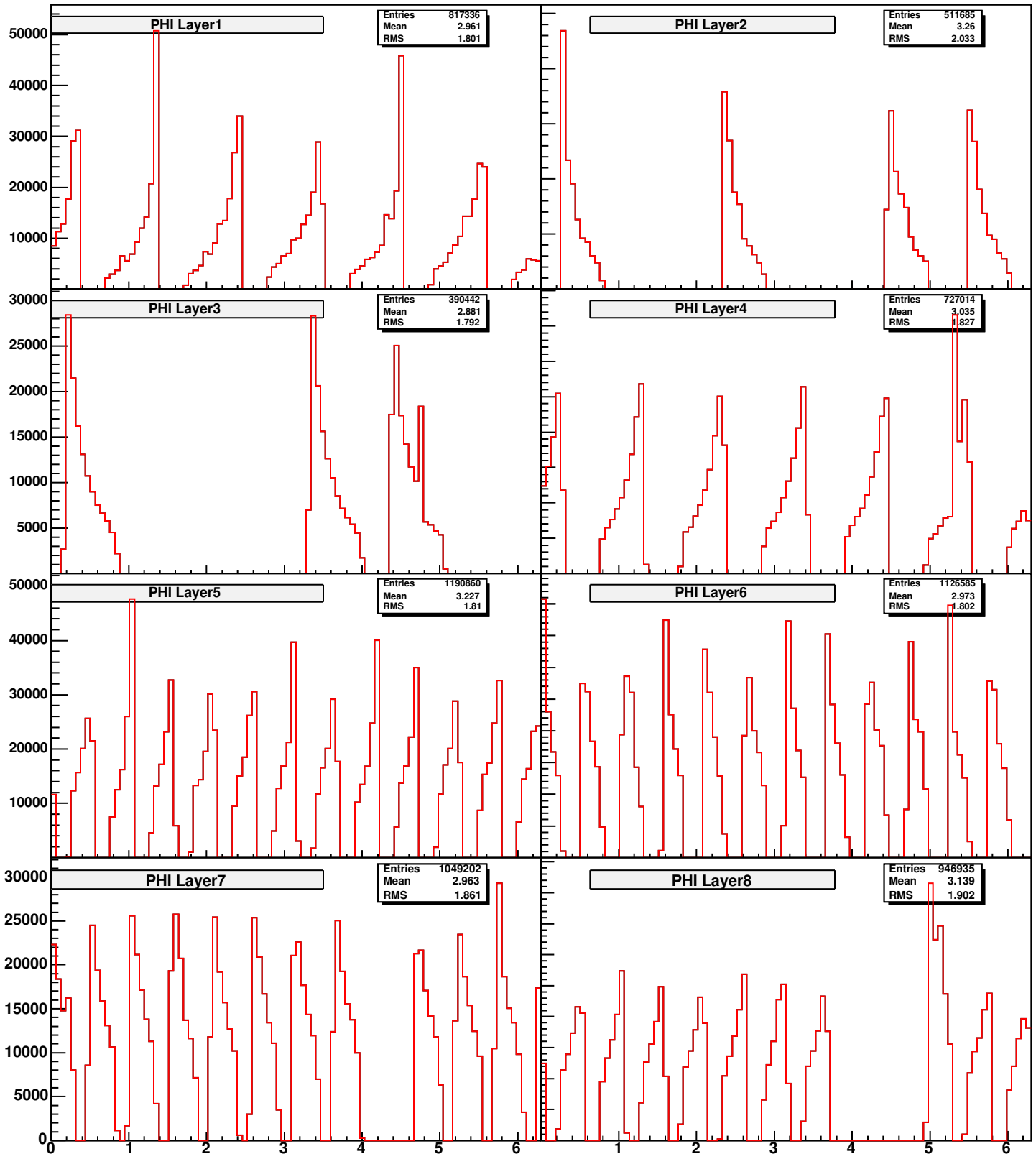


CPS Clusters (All Clusters)

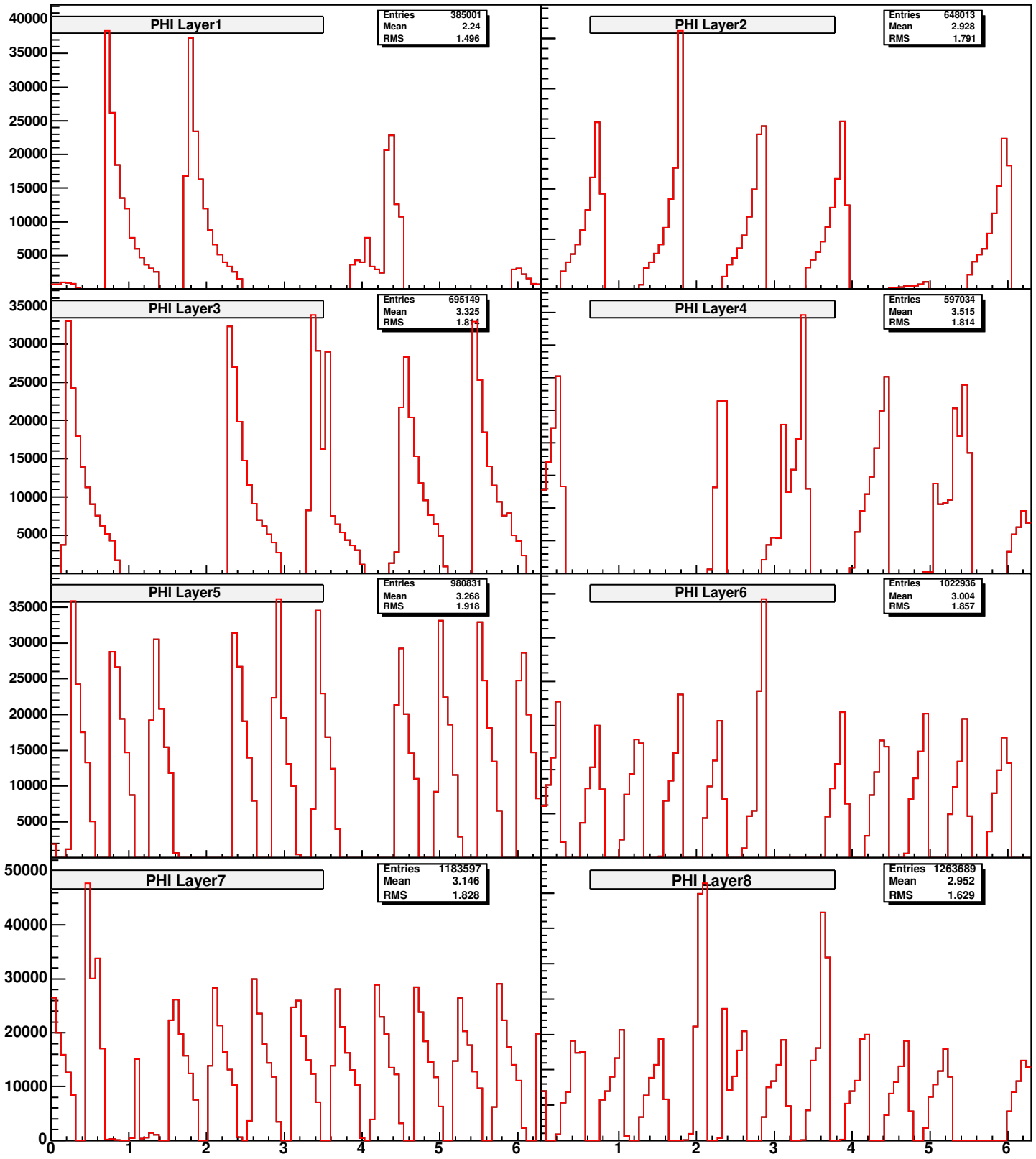

PHI
Entries 3.90068e+07
Mean 3.104
RMS 1.833
700
600
500
400
300
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 1.73152e+07
Mean 3.099
RMS 1.819
300
250
200
150
100
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

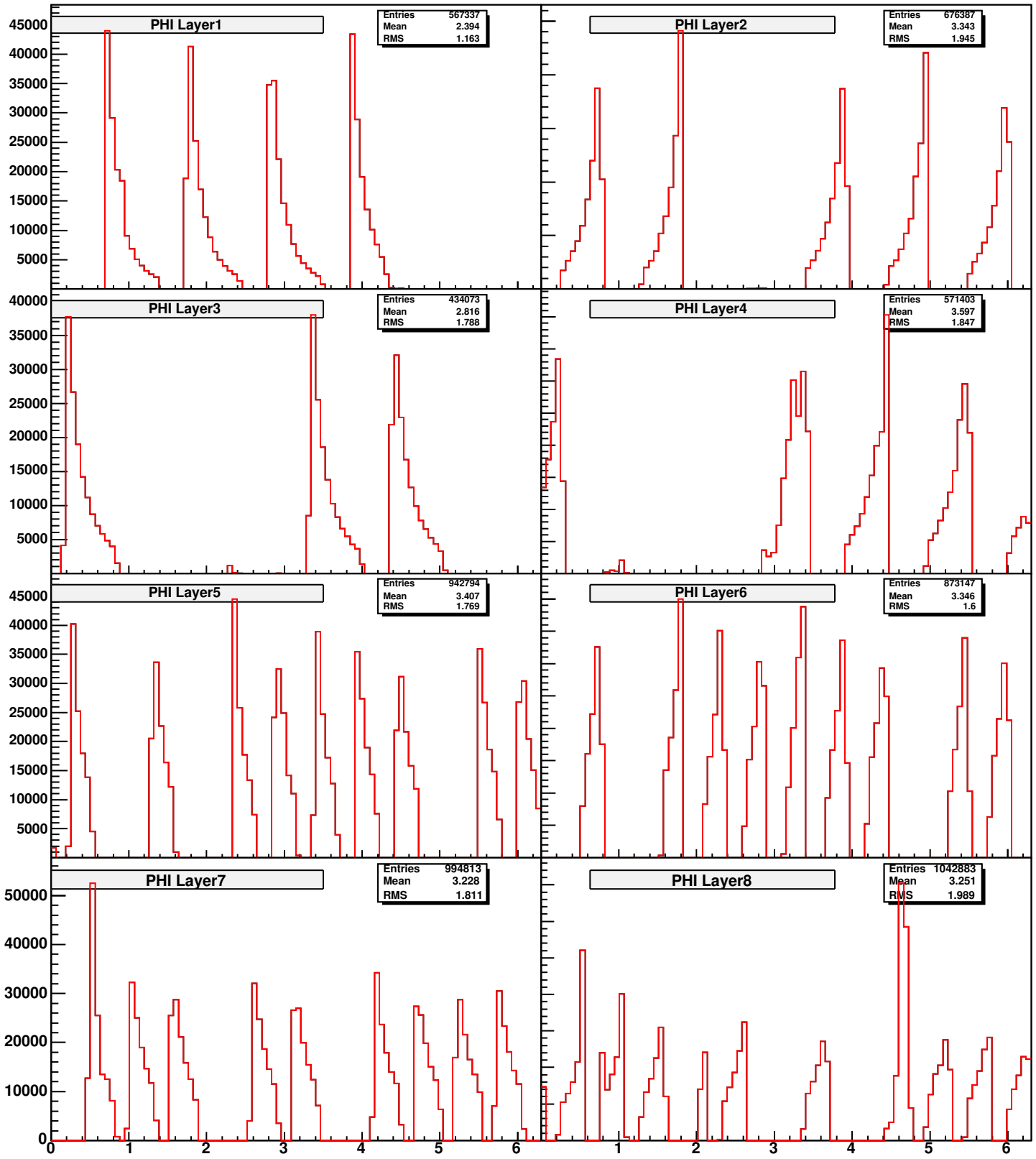

PHI HDisk All
Entries 8149866
Mean 3.232
RMS 1.86
160
140
120
100
80
60
40
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



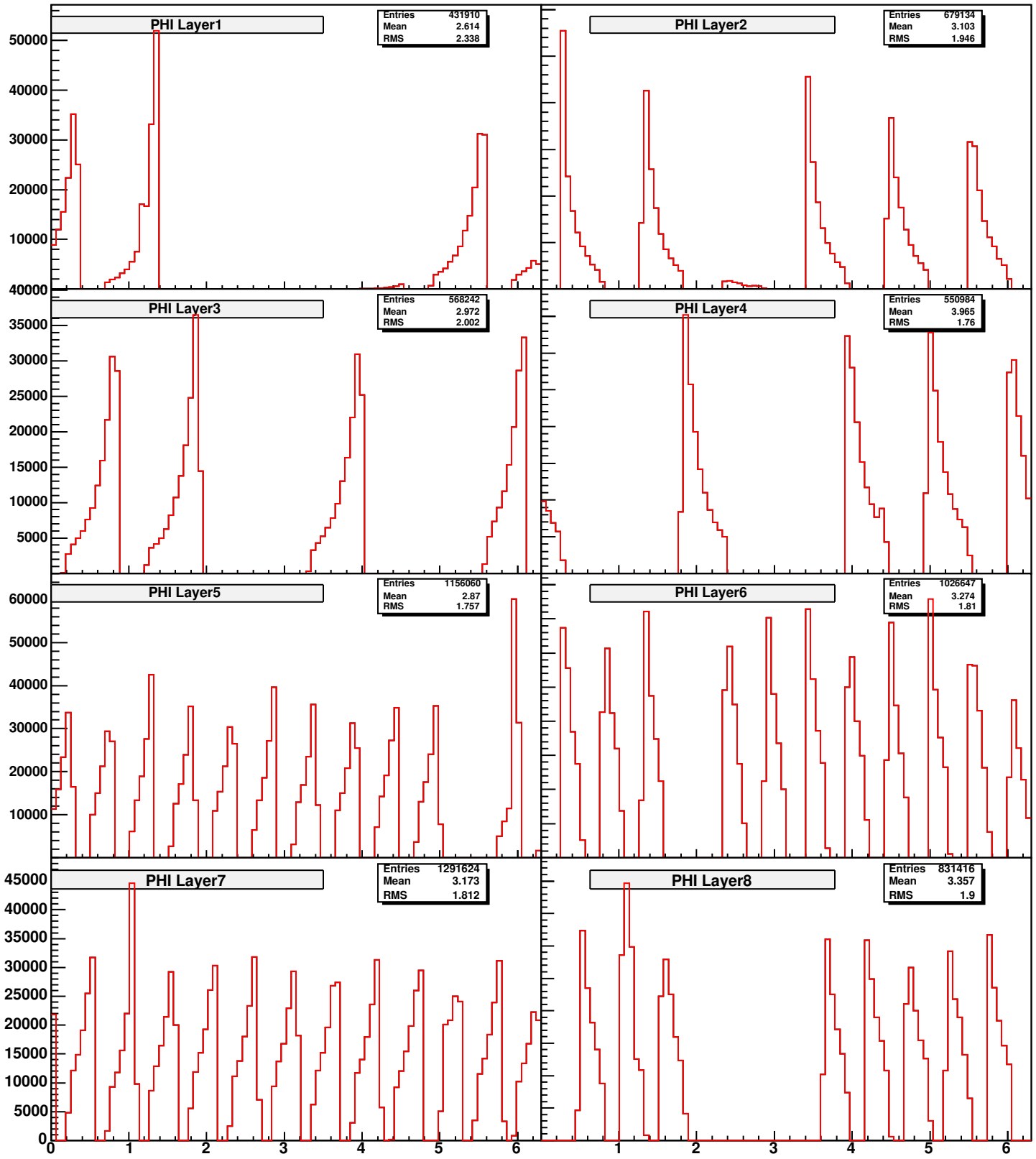
SmtClusters (ClustrBar1)



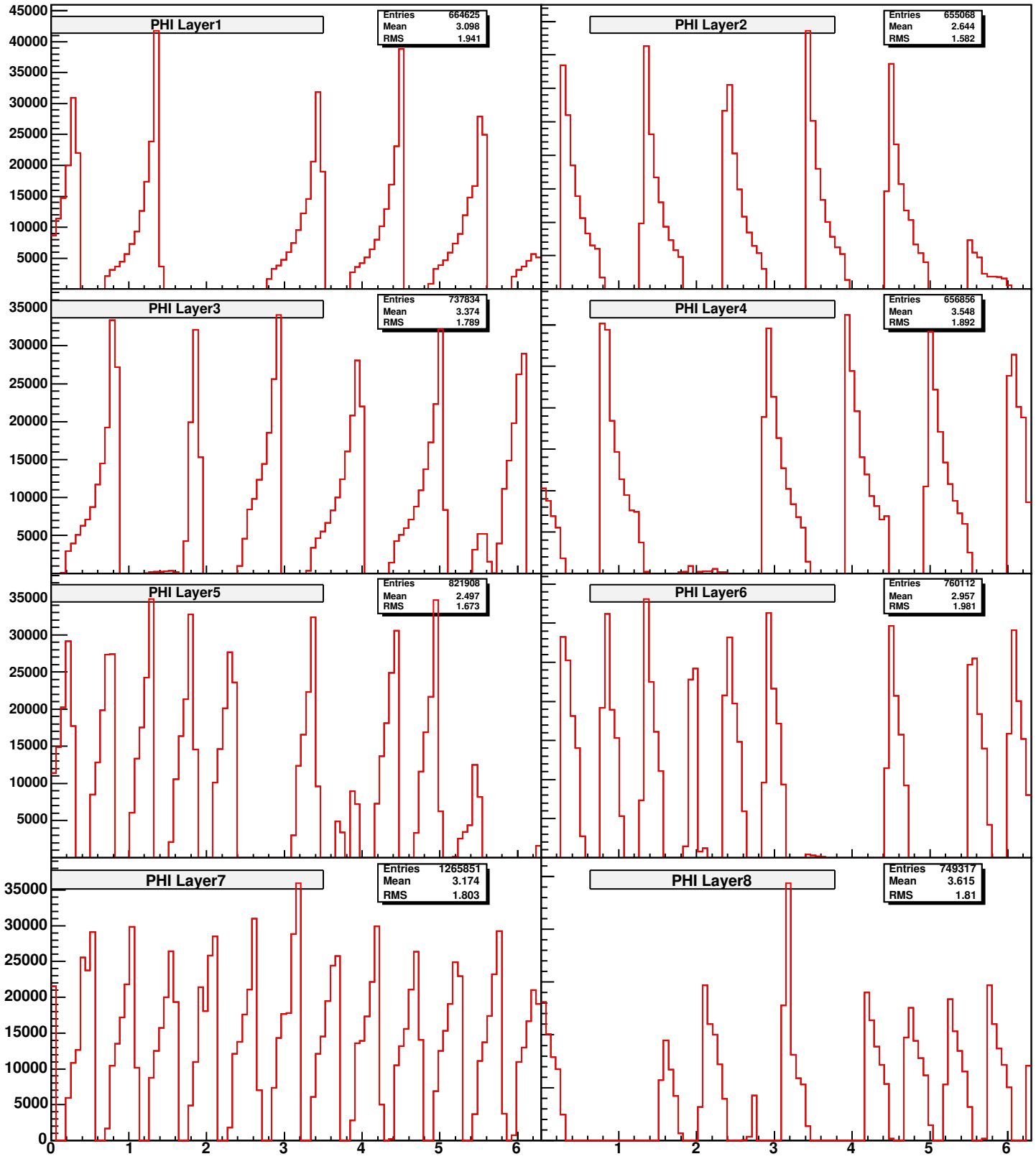
SmtClusters (ClustrBar2)



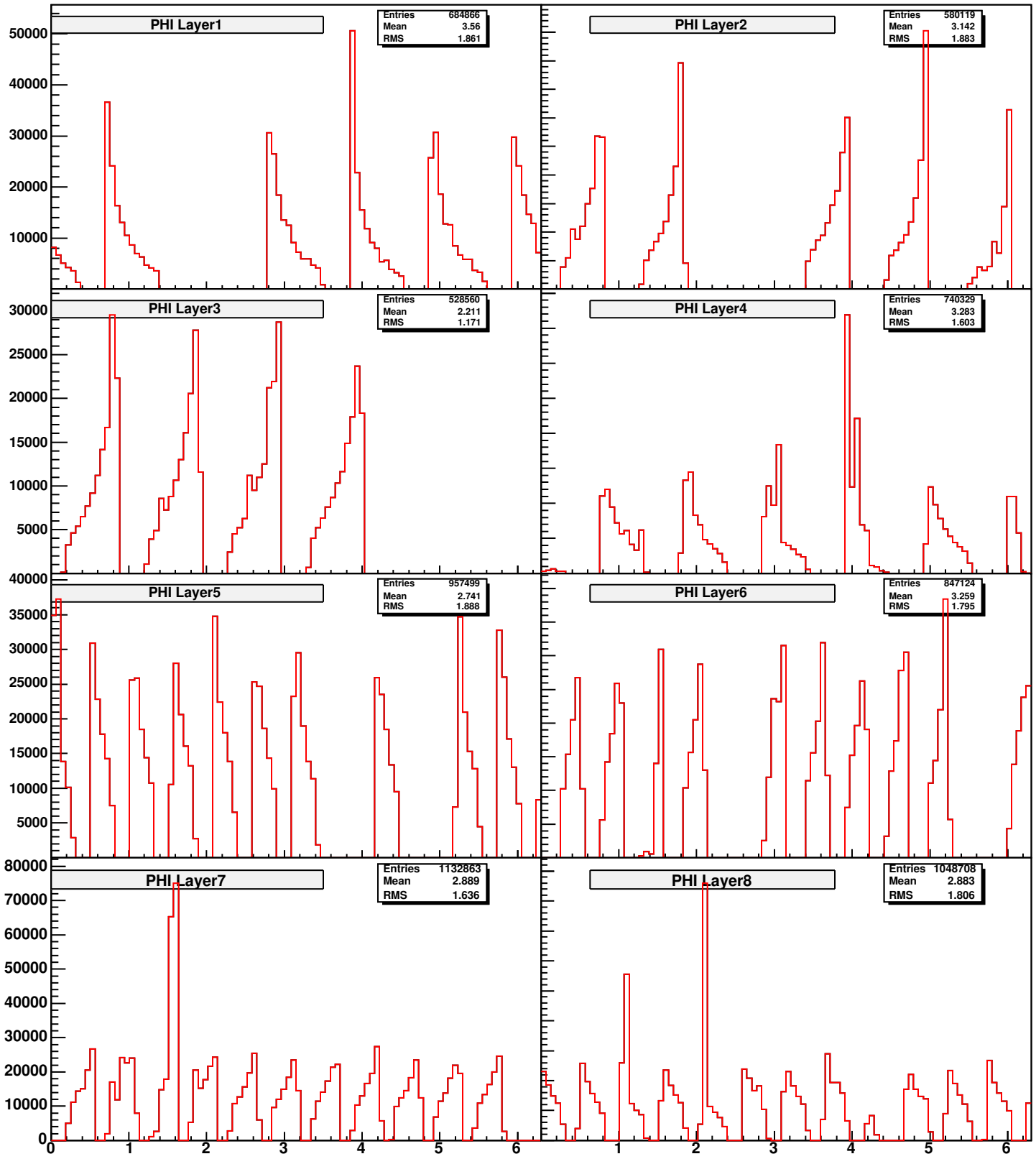
SmtClusters (ClustrBar3)



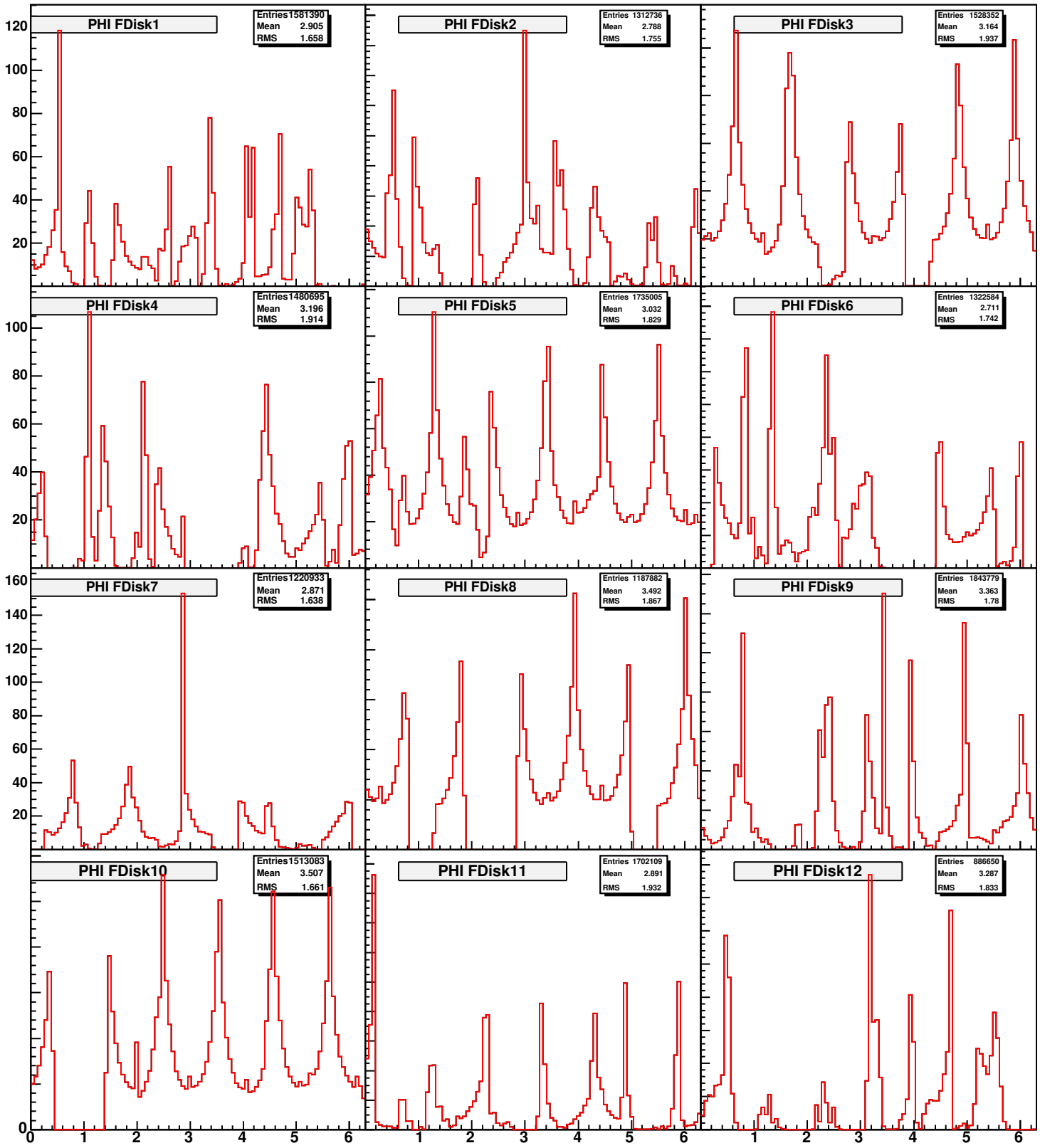
SmtClusters (ClustrBar4)



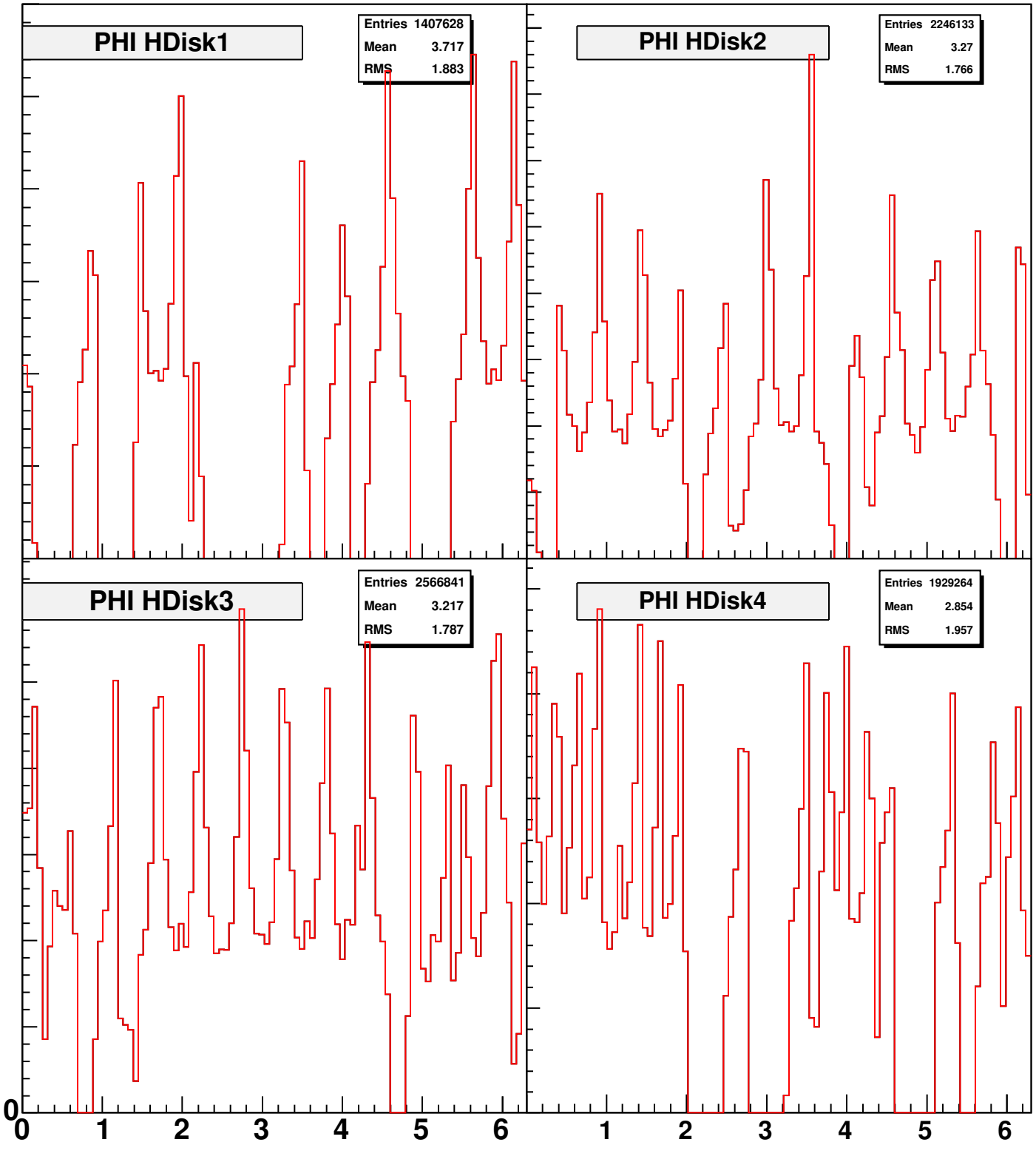
SmtClusters (ClustrBar5)

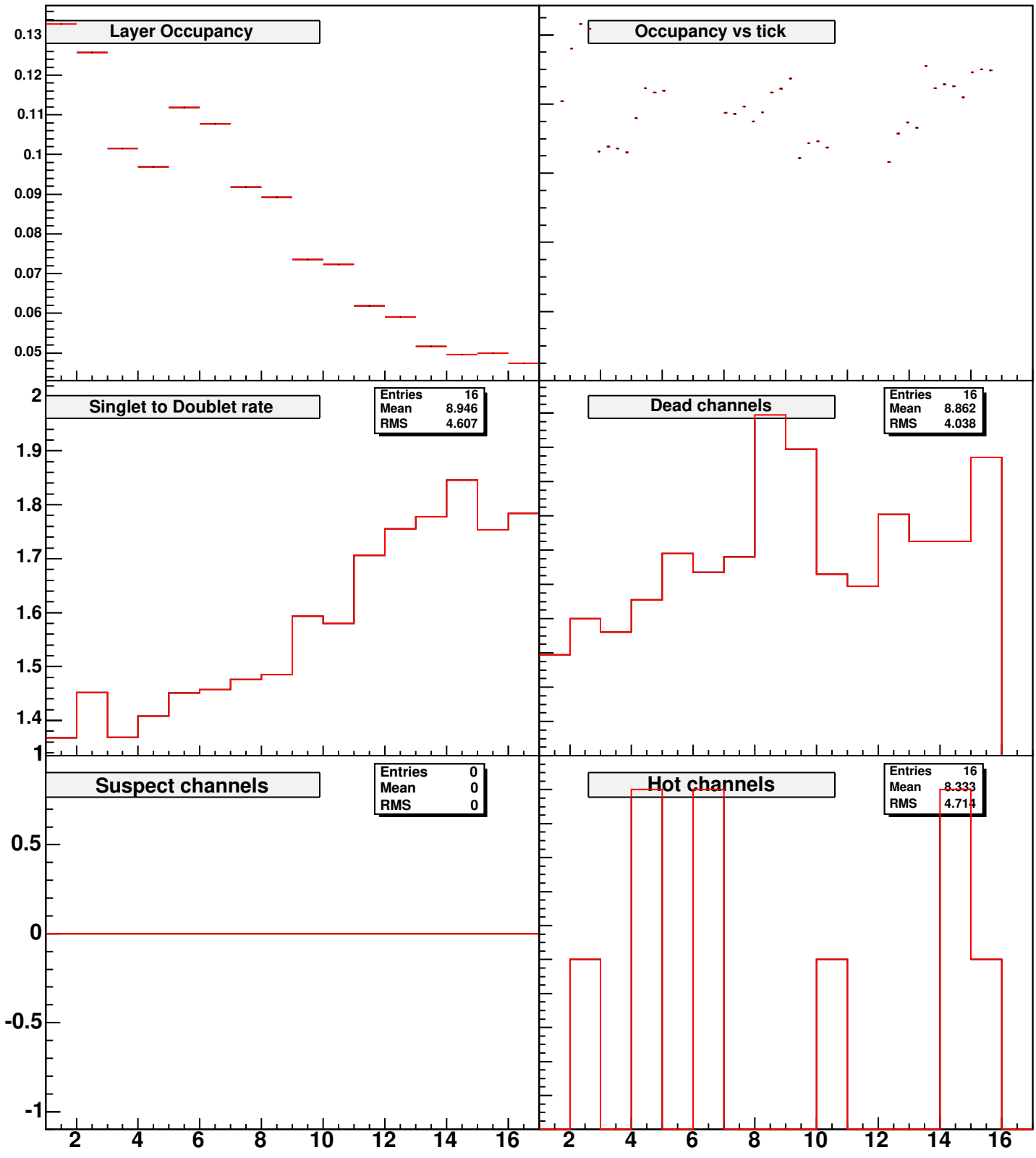


SmtClusters (ClustrBar6)

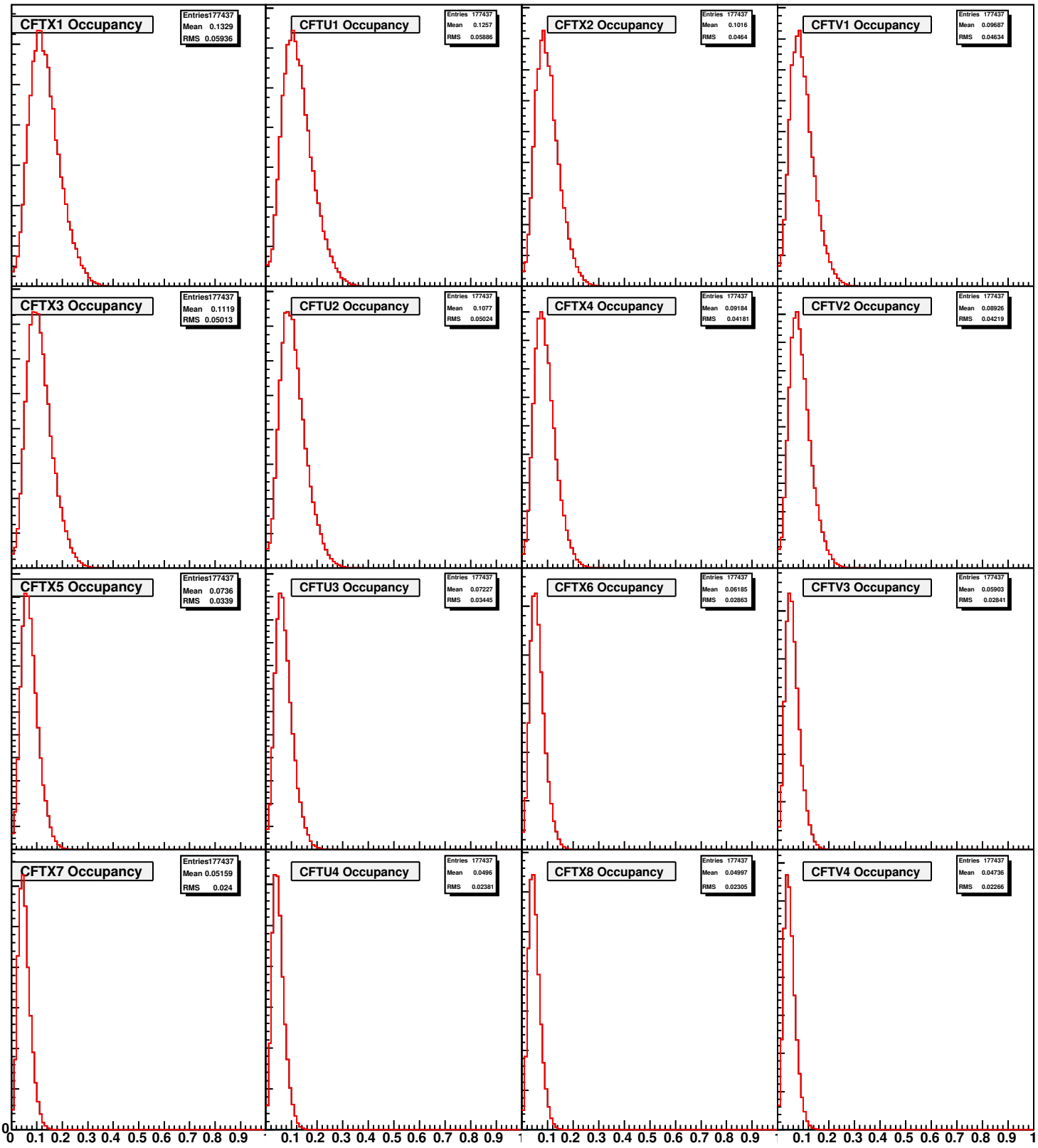


SmtClusters (FDiskClusters)

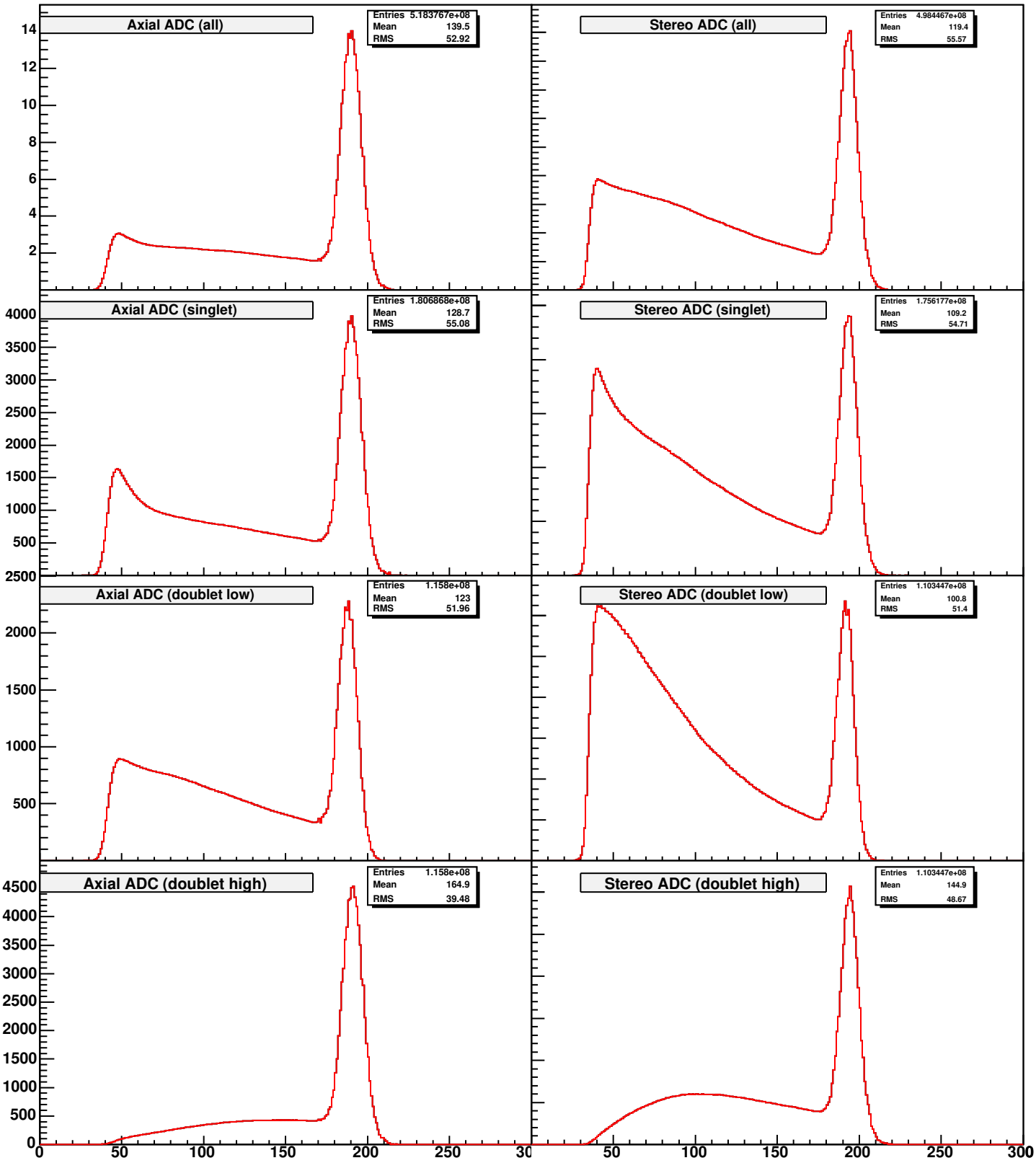

PHI HDisk1
Entries 1407628
Mean 3.717
RMS 1.883
PHI HDisk2
Entries 2246133
Mean 3.27
RMS 1.766
PHI HDisk3
Entries 2566841
Mean 3.217
RMS 1.787
PHI HDisk4
Entries 1929264
Mean 2.854
RMS 1.957
0
0 1 2 3 4 5 6
1 2 3 4 5 6
SmtClusters (HDiskClusters)



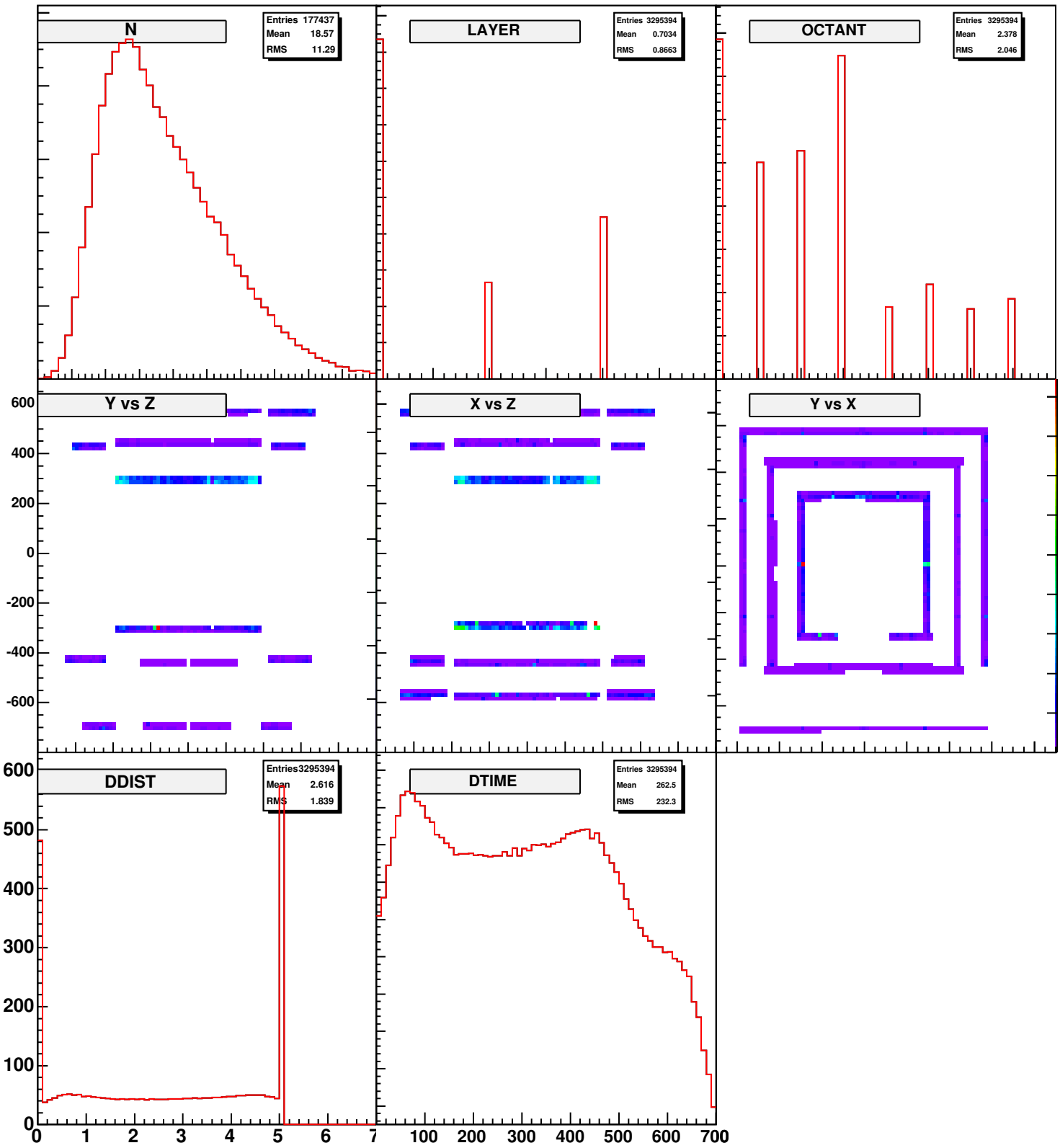
CFT Summary (All Clusters)



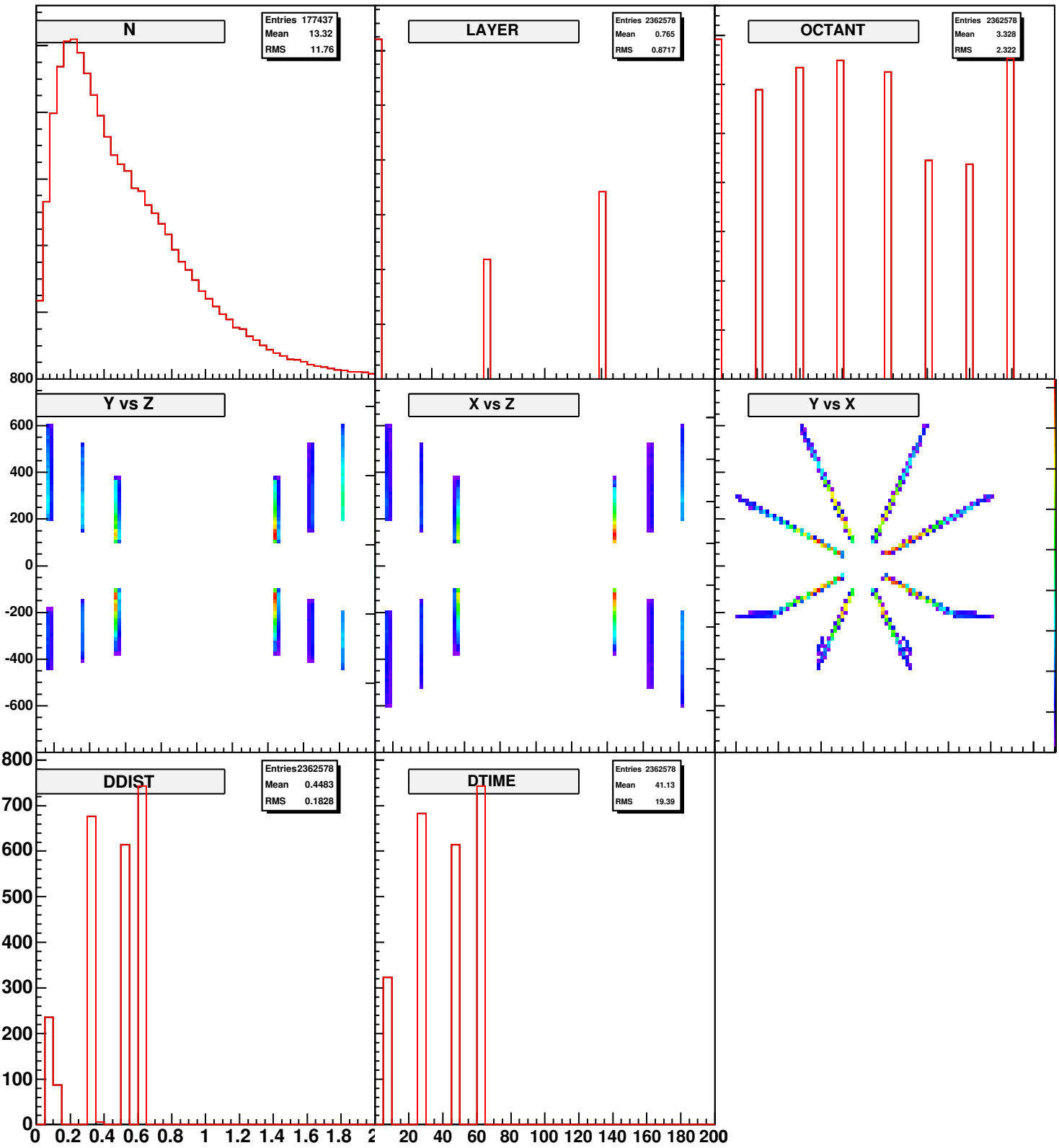
CFT Occupancy (All Clusters)



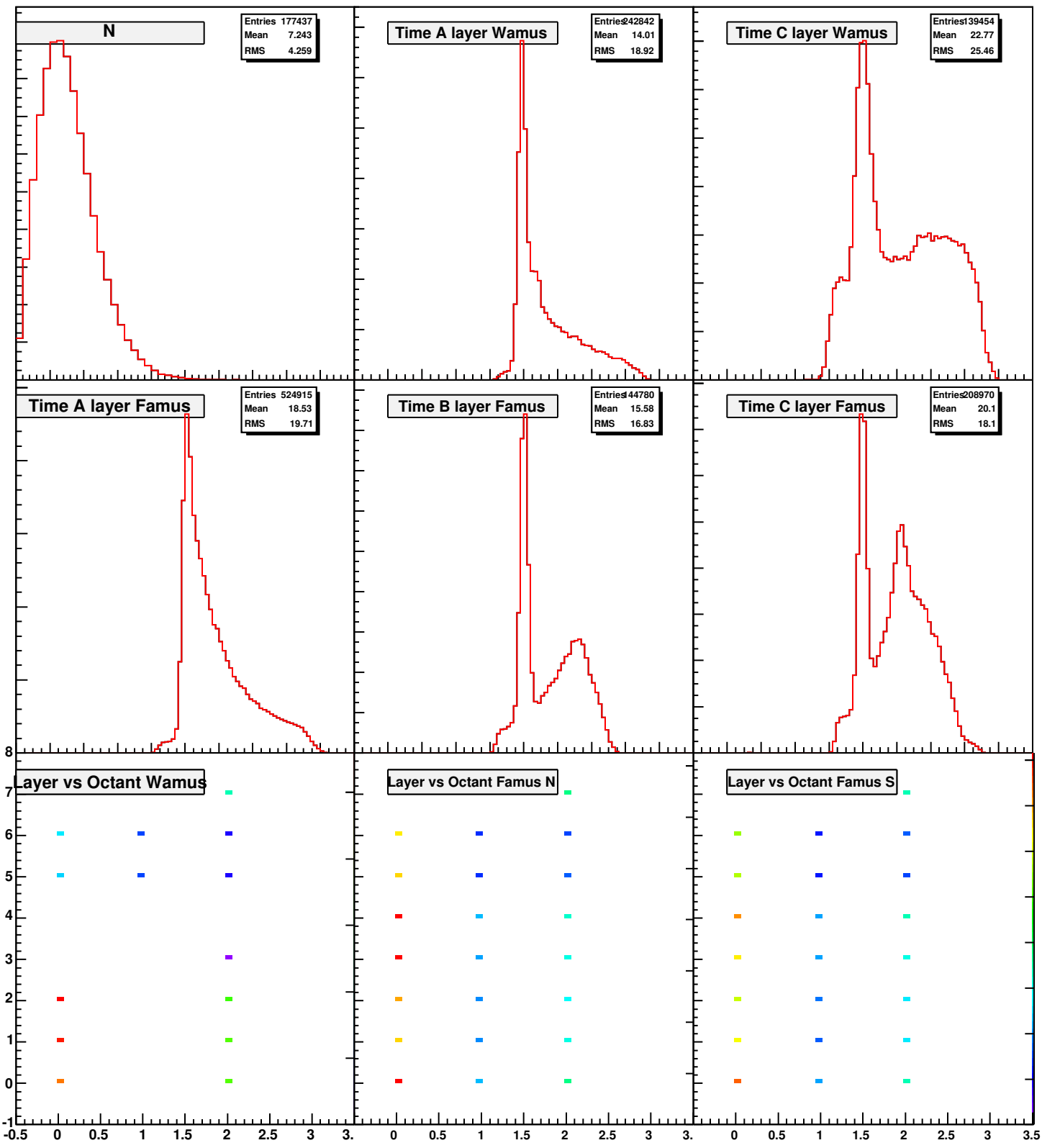
CFT ADC Summary (All Clusters)


N
Entries 177437
Mean 18.57
RMS 11.29
LAYER
Entries 3295394
Mean 0.7034
RMS 0.8663
OCTANT
Entries 3295394
Mean 2.378
RMS 2.046
Y vs Z
X vs Z
Y vs X
600
400
200
0
-200
-400
-600
DDIST
Entries 3295394
Mean 2.616
RMS 1.839
DTIME
Entries 3295394
Mean 262.5
RMS 232.3
600
500
400
300
200
100
0
0 1 2 3 4 5 6 7
100 200 300 400 500 600 700

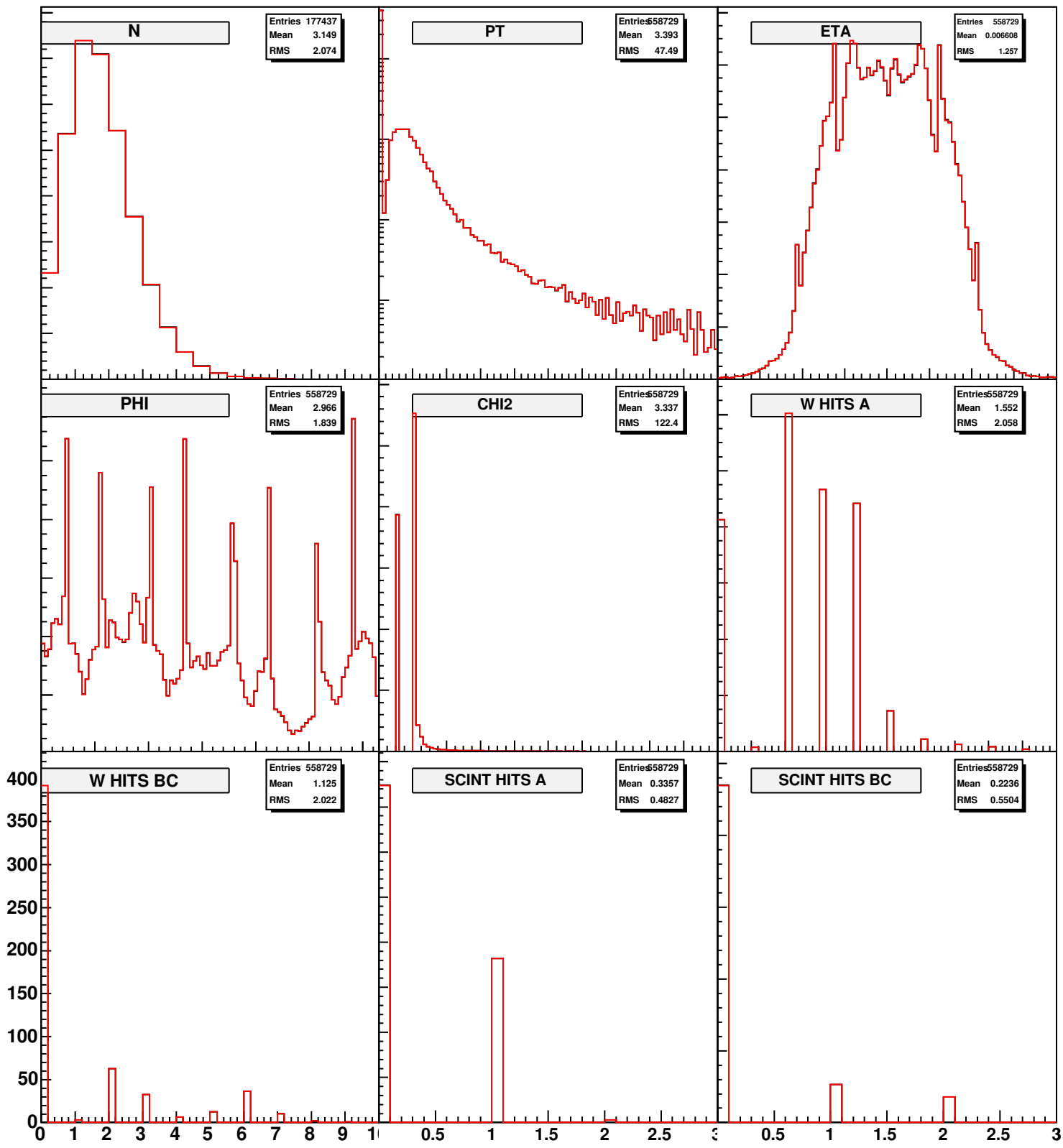
MuonPDT (All)


N
Entries 177437
Mean 13.32
RMS 11.76
LAYER
Entries 2362578
Mean 0.765
RMS 0.8717
OCTANT
Entries 2362578
Mean 3.328
RMS 2.322
Y vs Z
X vs Z
Y vs X
DDIST
Entries 2362578
Mean 0.4483
RMS 0.1828
DTIME
Entries 2362578
Mean 41.13
RMS 19.39

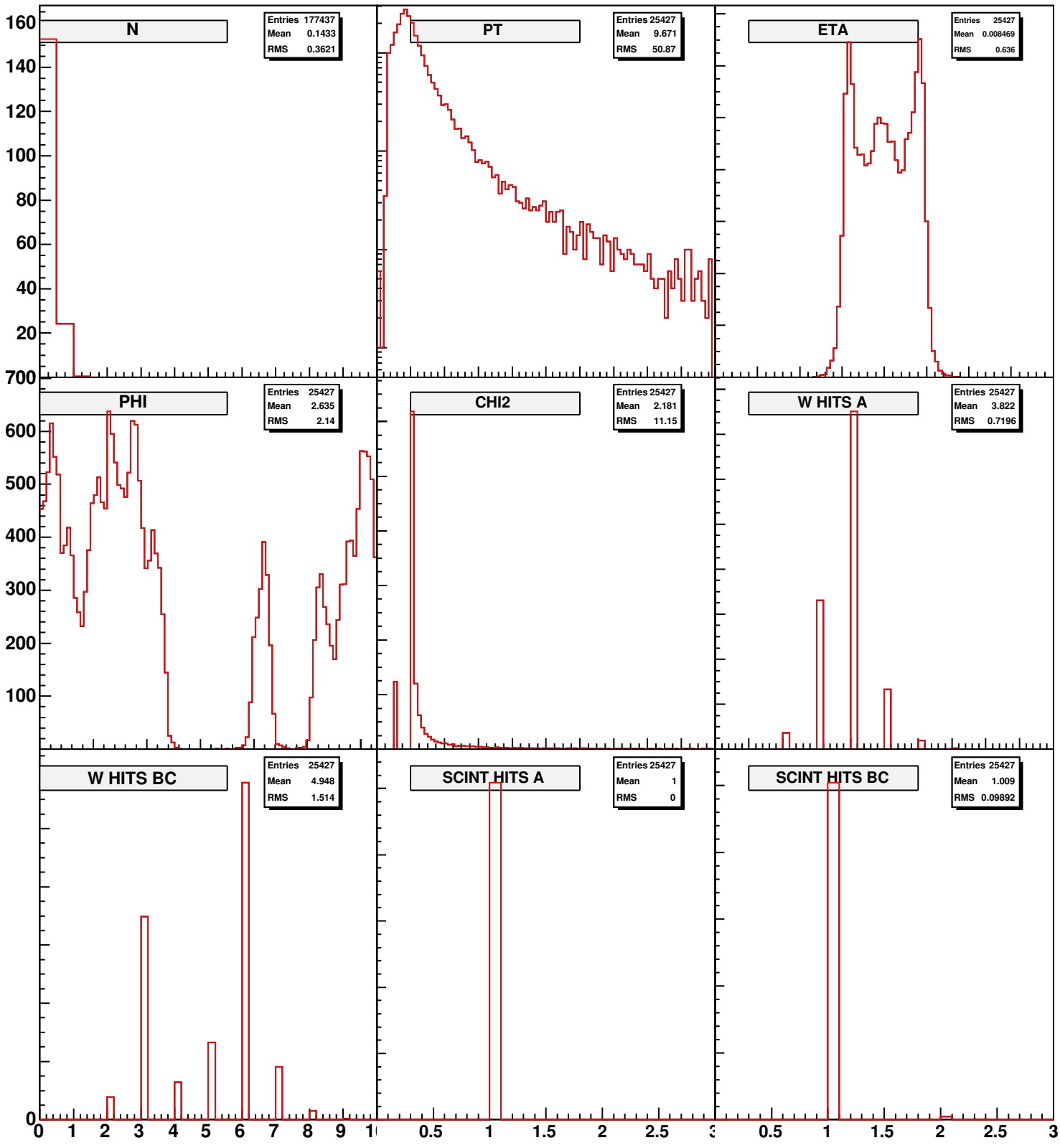
MuonMDT (All)


N
Entries 177437
Mean 7.243
RMS 4.259
Time A layer Wamus
Entries 242842
Mean 14.01
RMS 18.92
Time C layer Wamus
Entries 139454
Mean 22.77
RMS 25.46
Time A layer Famus
Entries 524915
Mean 18.53
RMS 19.71
Time B layer Famus
Entries 144780
Mean 15.58
RMS 16.83
Time C layer Famus
Entries 208970
Mean 20.1
RMS 18.1
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

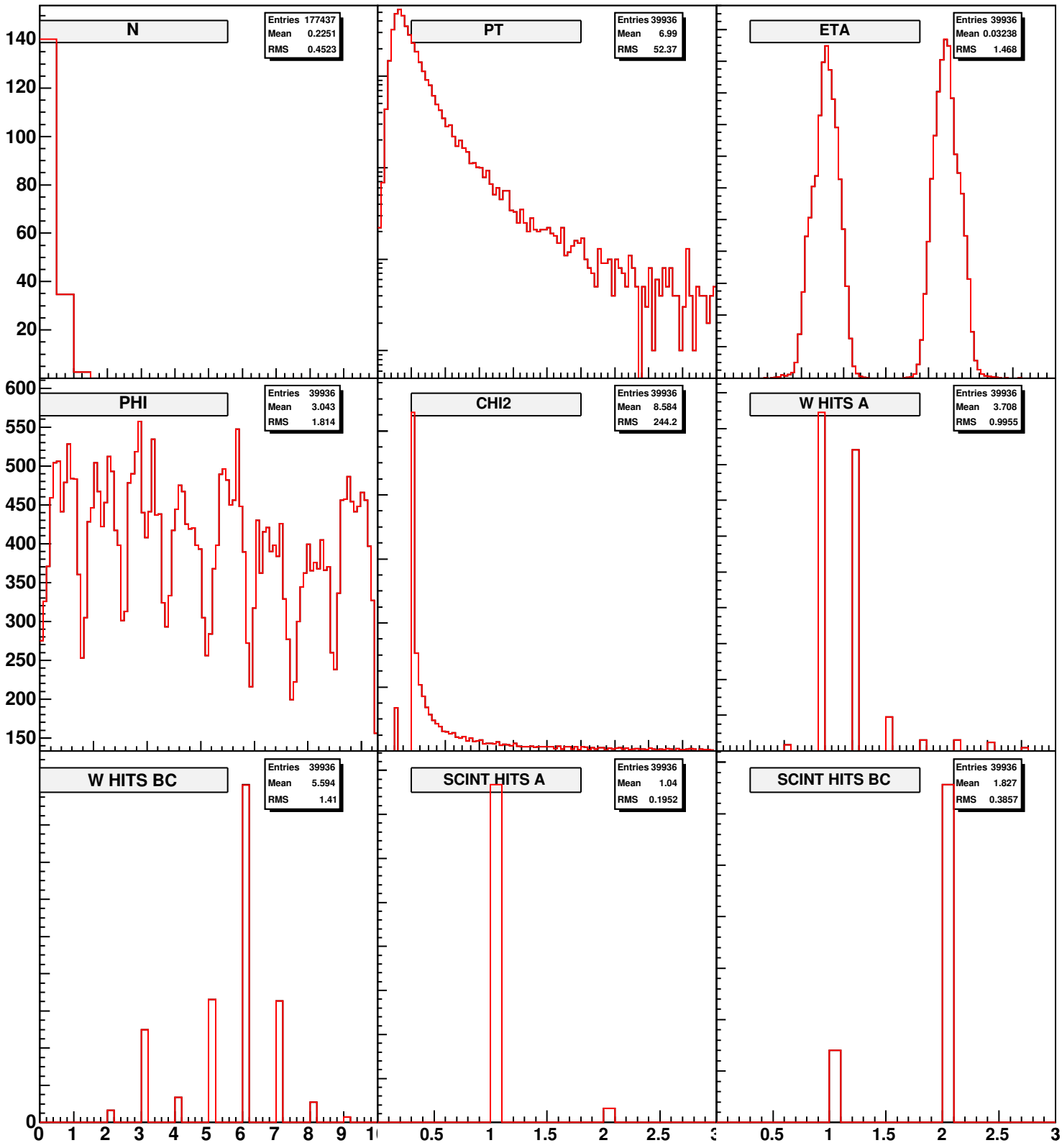
MuonMSC (All)



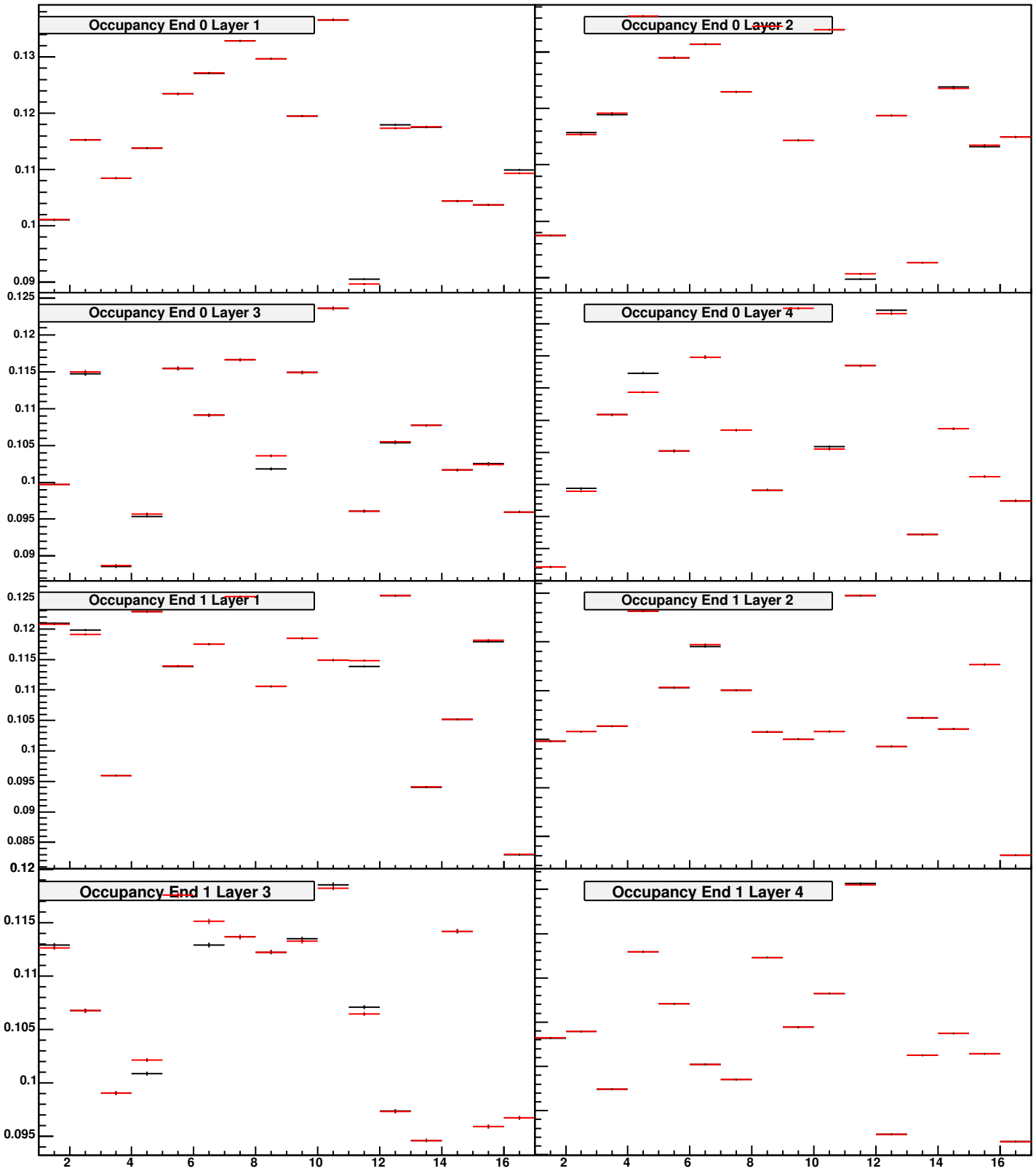
Muon Local Tracks (All)



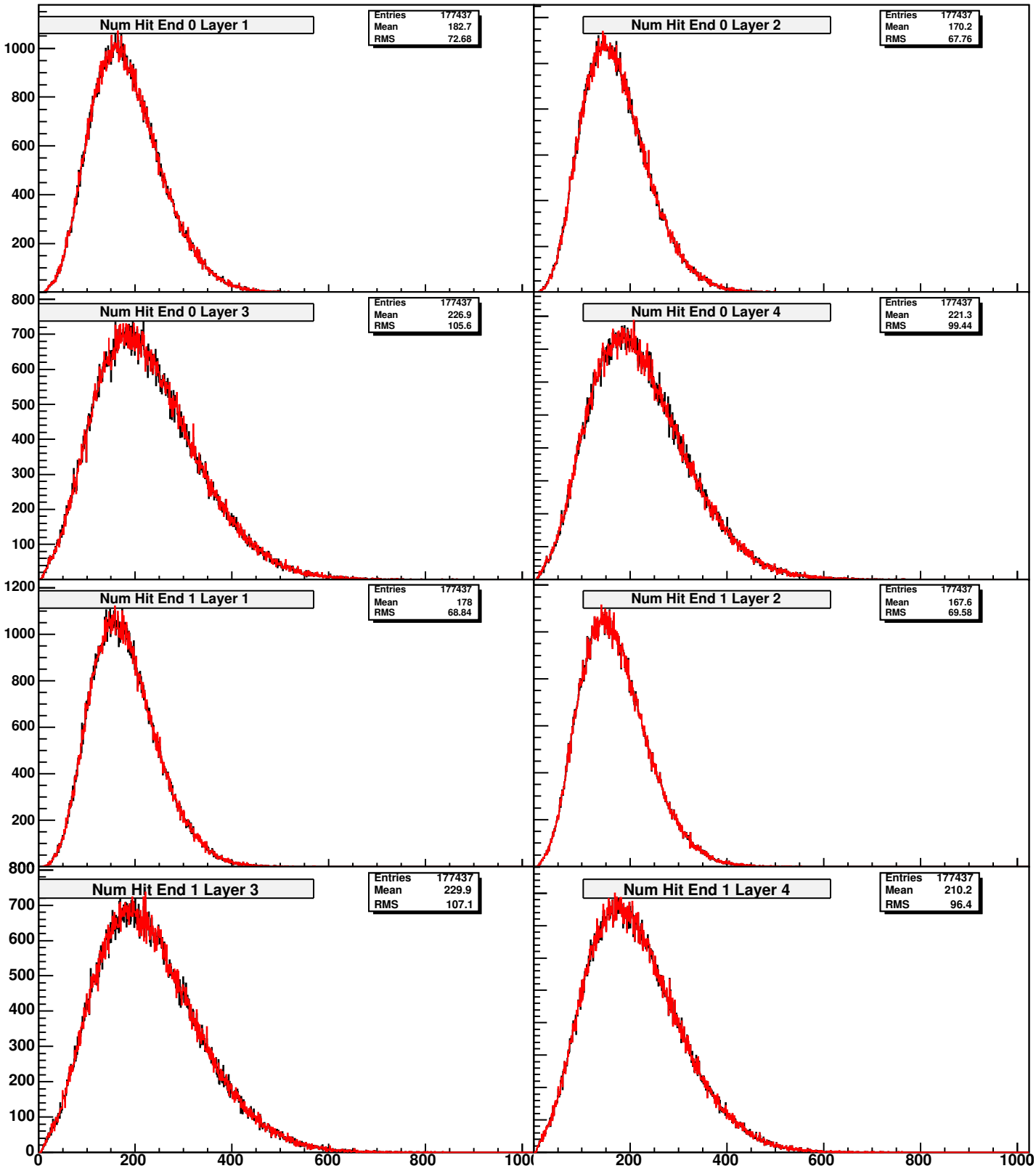
Muon Local Tracks (MediumWamus)



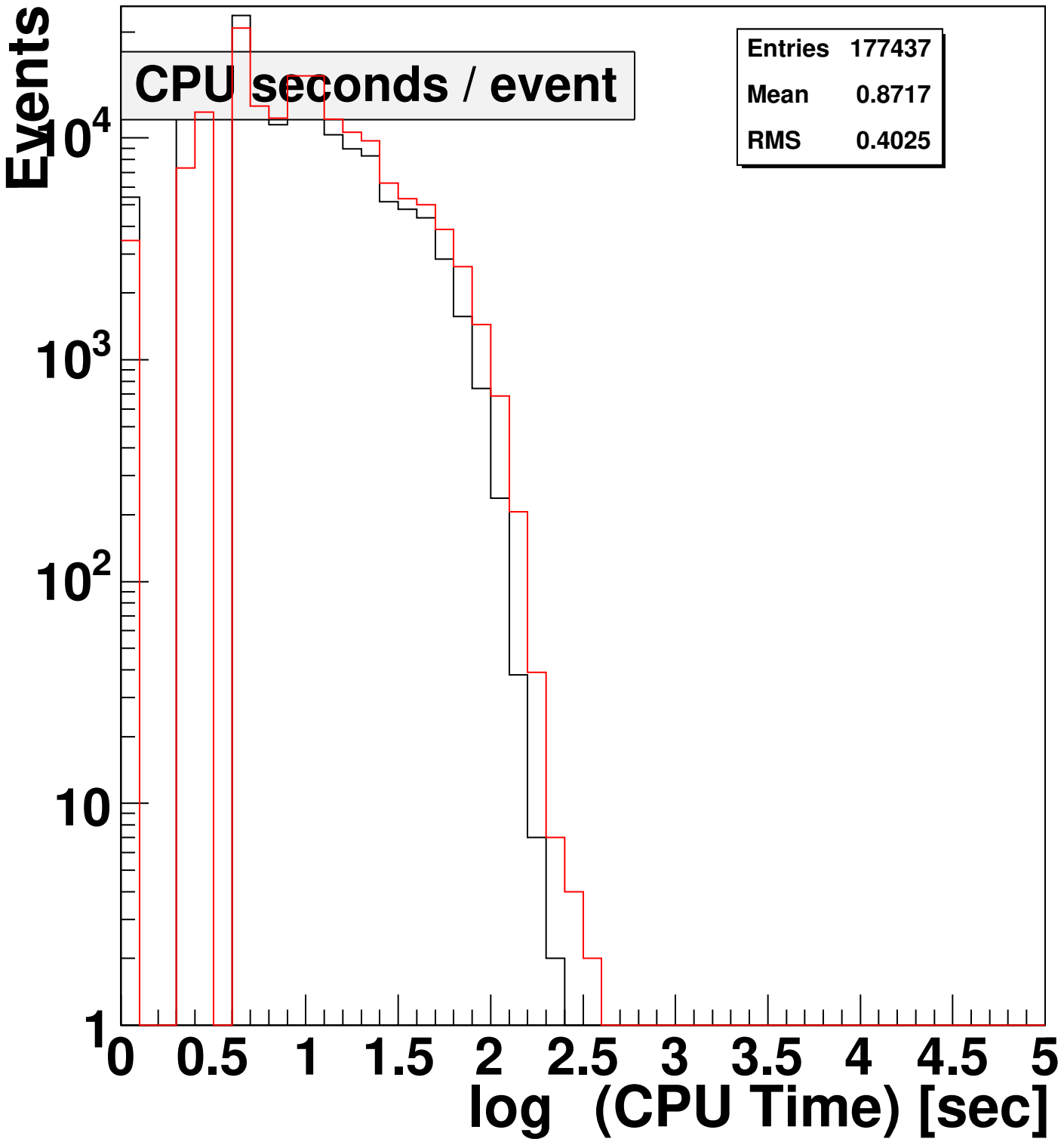
Muon Local Tracks (MediumFamus)



FPS Hit Occupancy (All)



FPS Number of Hits (All)



RECO Performance (Timing)