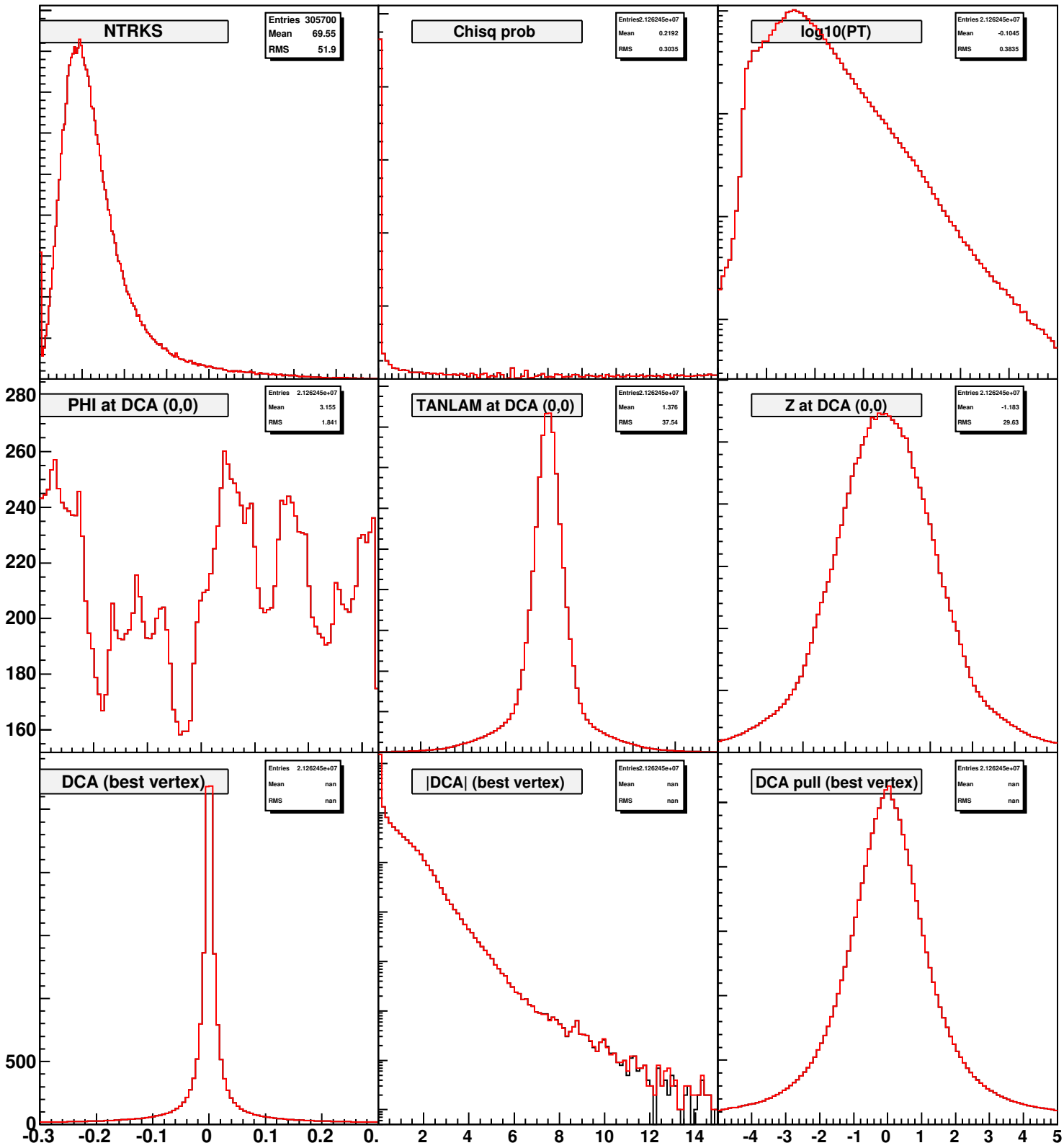
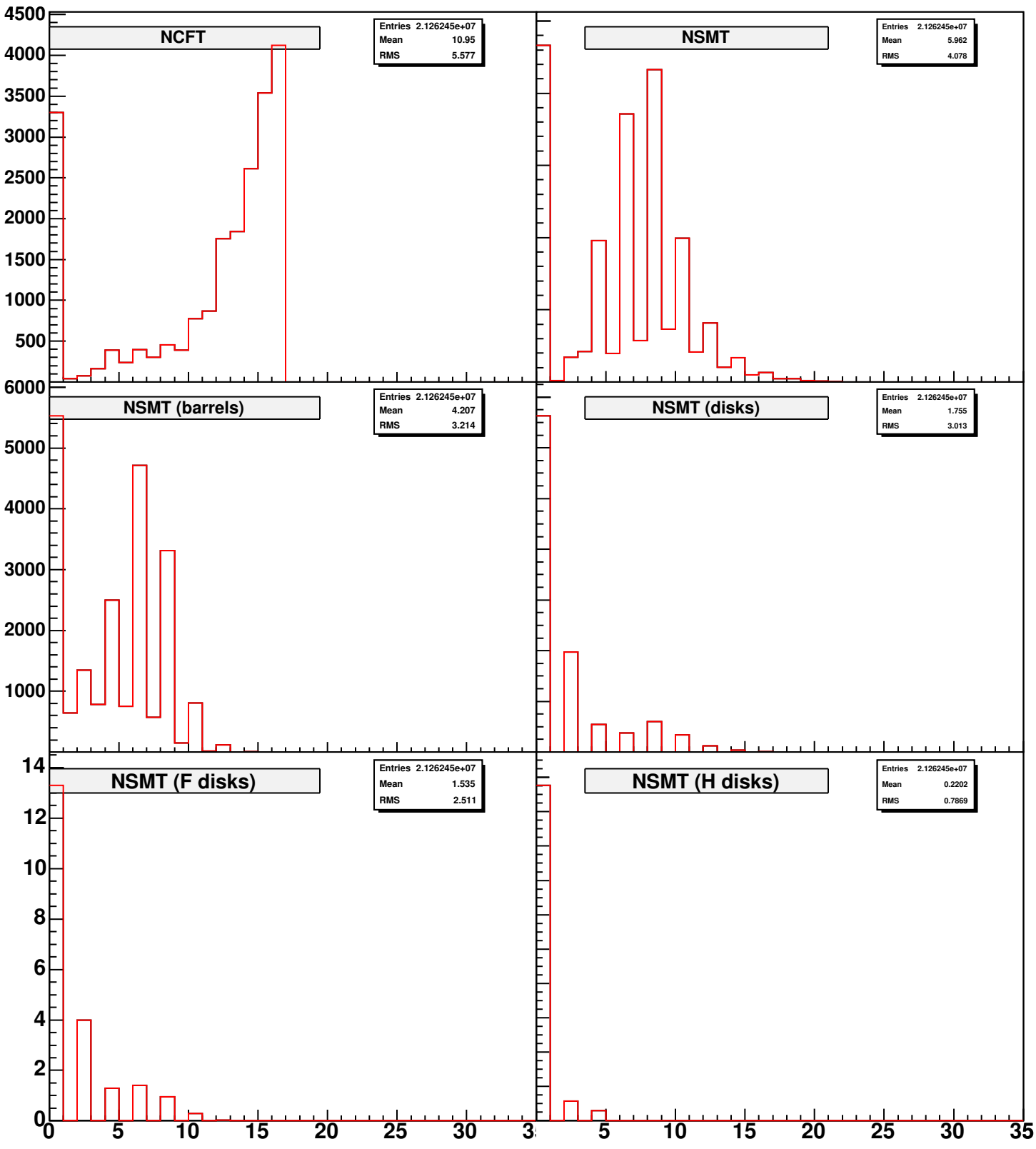
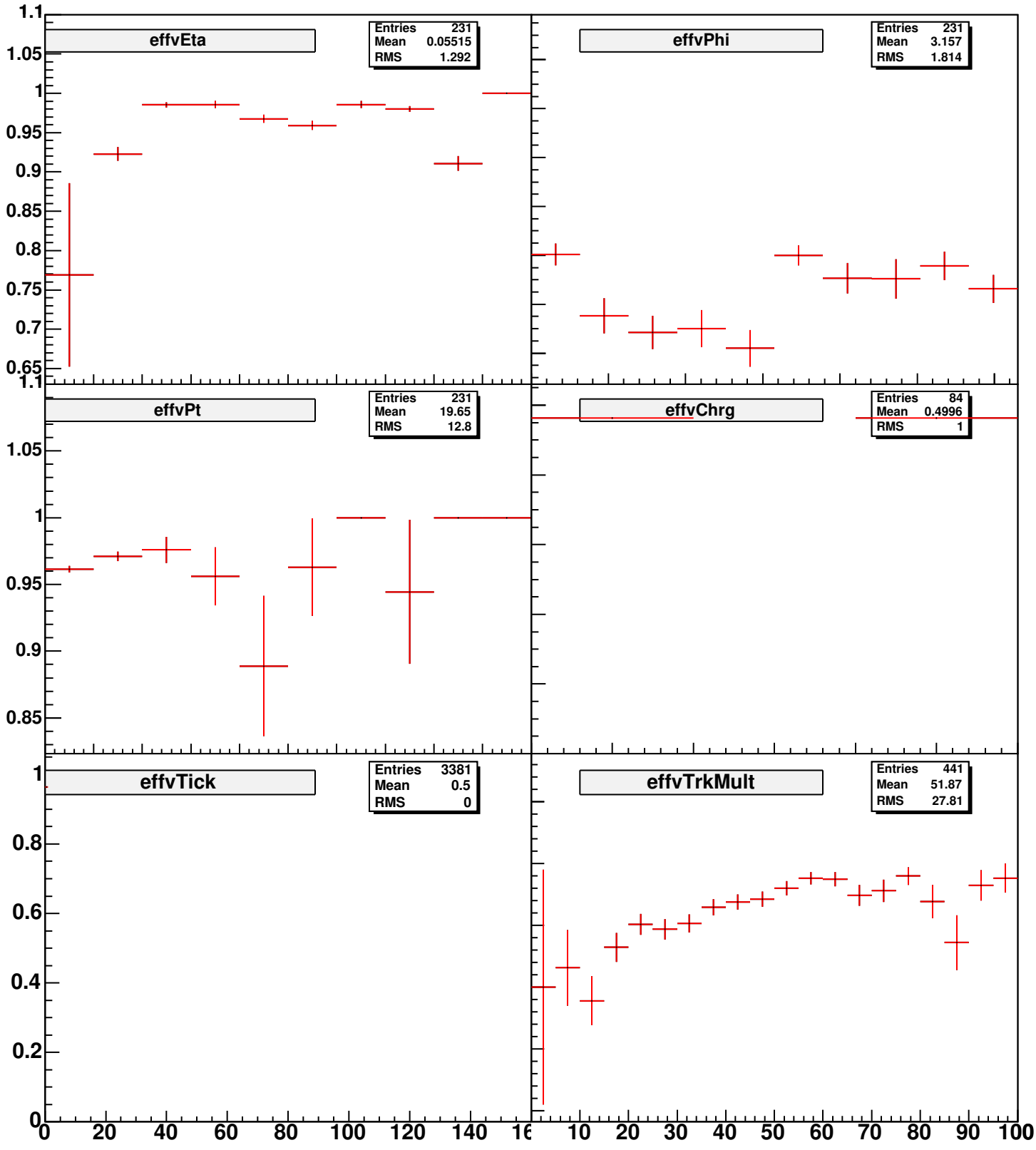
dayset-2004-06-23-194379-0_certification_200504

dayset-2004-06-23-194379-0_certification_200504

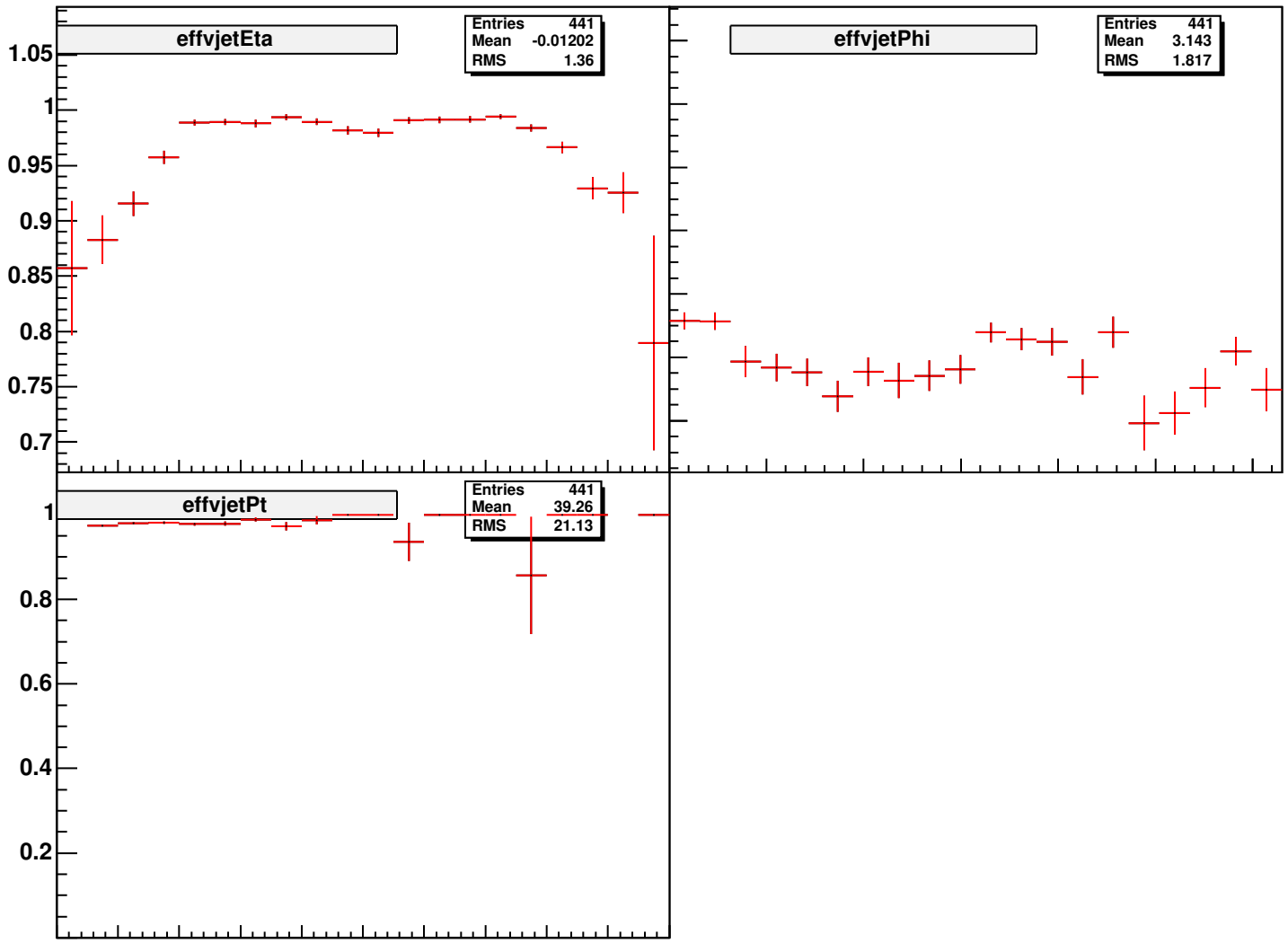

NTRKS
Entries 305700
Mean 69.55
RMS 51.9
Chisq prob
Entries2.126245e+07
Mean 0.2192
RMS 0.3035
log10(PT)
Entries 2.126245e+07
Mean -0.1045
RMS 0.3835
PHI at DCA (0,0)
Entries 2.126245e+07
Mean 3.155
RMS 1.841
TANLAM at DCA (0,0)
Entries2.126245e+07
Mean 1.376
RMS 37.54
Z at DCA (0,0)
Entries 2.126245e+07
Mean -1.183
RMS 29.63
DCA (best vertex)
Entries 2.126245e+07
Mean nan
RMS nan
|DCA| (best vertex)
Entries2.126245e+07
Mean nan
RMS nan
DCA pull (best vertex)
Entries 2.126245e+07
Mean nan
RMS nan
280
260
240
220
200
180
160
500
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)

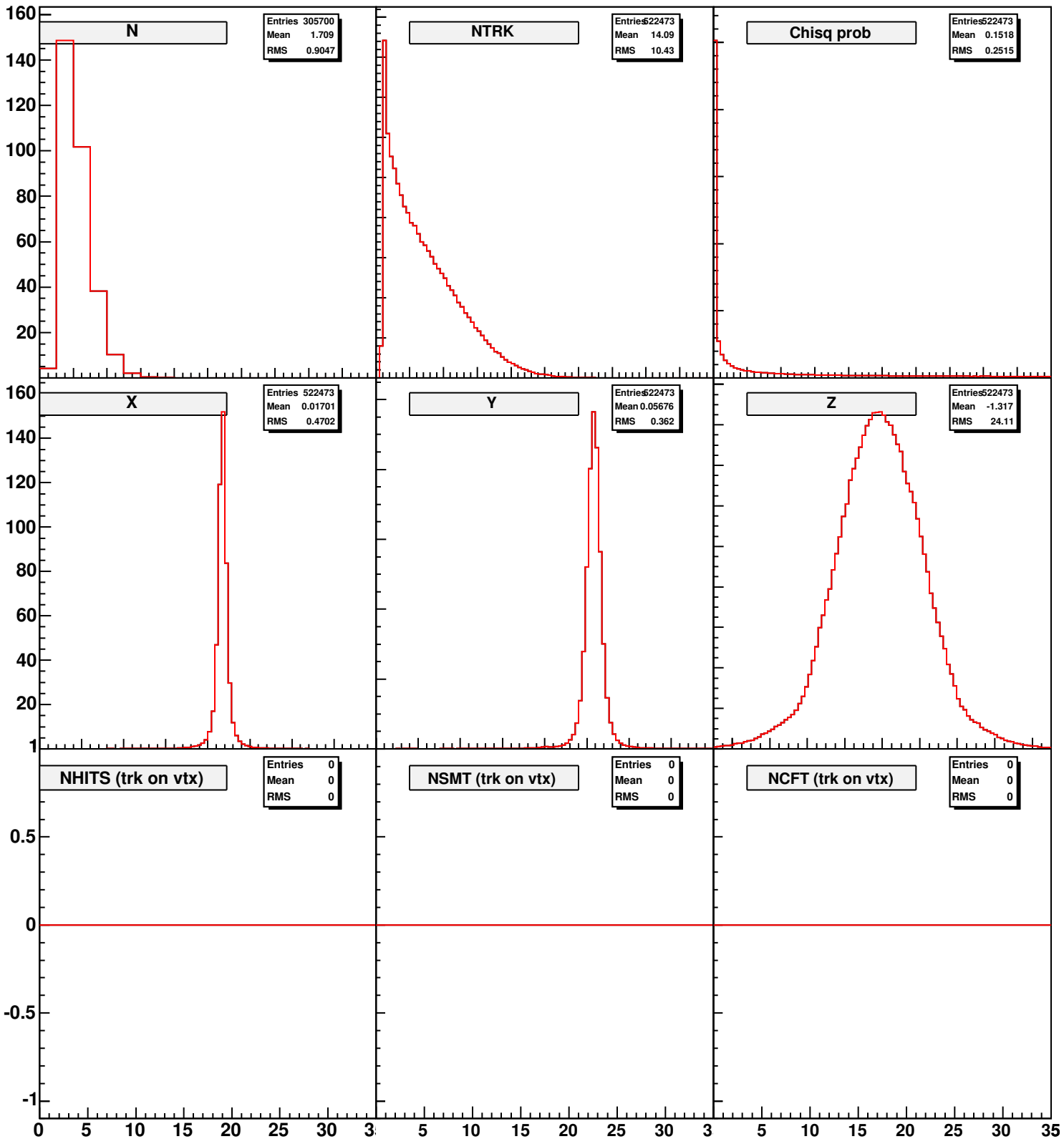

NCFT
Entries 2.126245e+07
Mean 10.95
RMS 5.577
NSMT
Entries 2.126245e+07
Mean 5.962
RMS 4.078
NSMT (barrels)
Entries 2.126245e+07
Mean 4.207
RMS 3.214
NSMT (disks)
Entries 2.126245e+07
Mean 1.755
RMS 3.013
NSMT (F disks)
Entries 2.126245e+07
Mean 1.535
RMS 2.511
NSMT (H disks)
Entries 2.126245e+07
Mean 0.2202
RMS 0.7869
Track Hits (All)



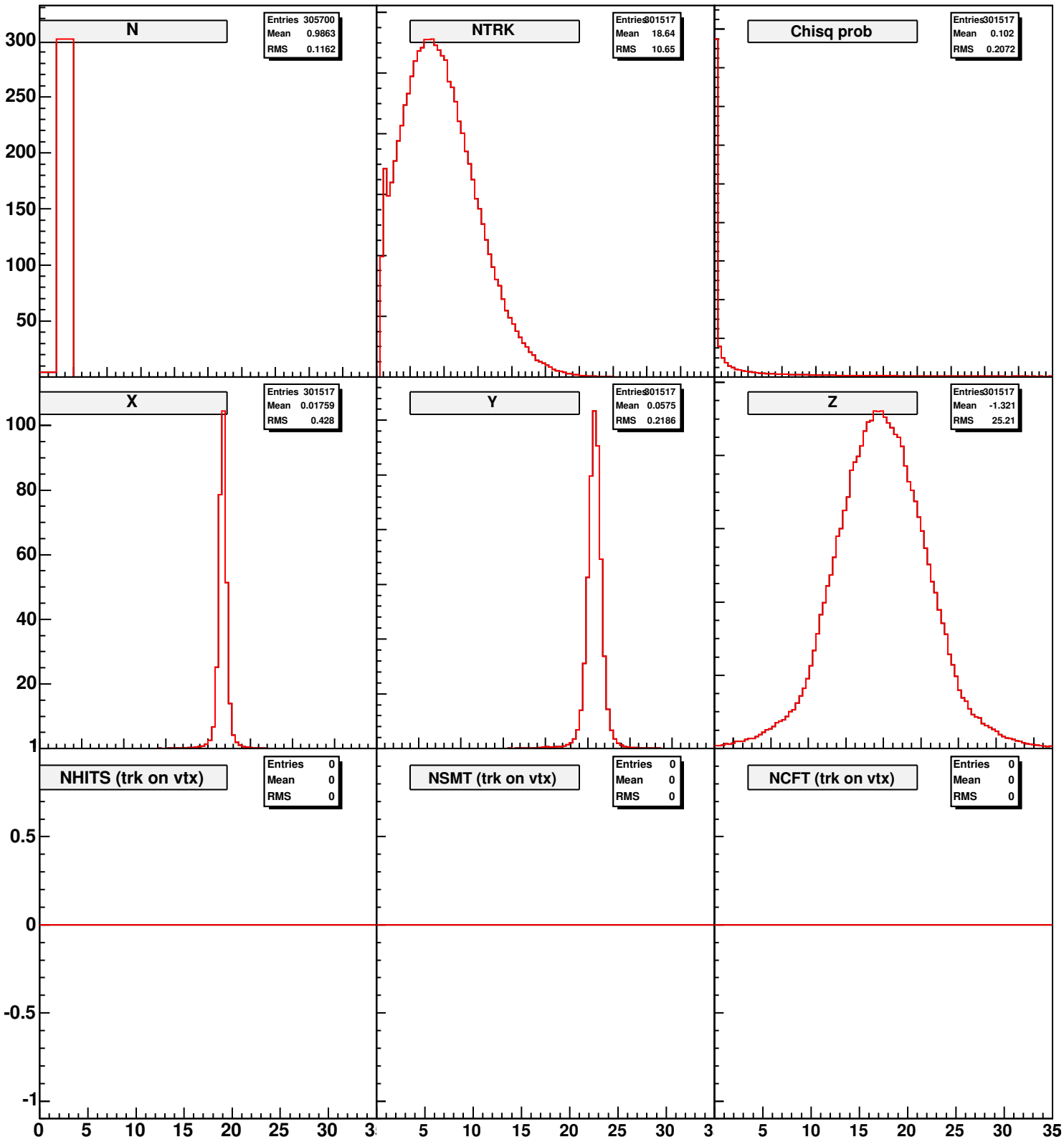
Tracking (Efficiency-Isolated)

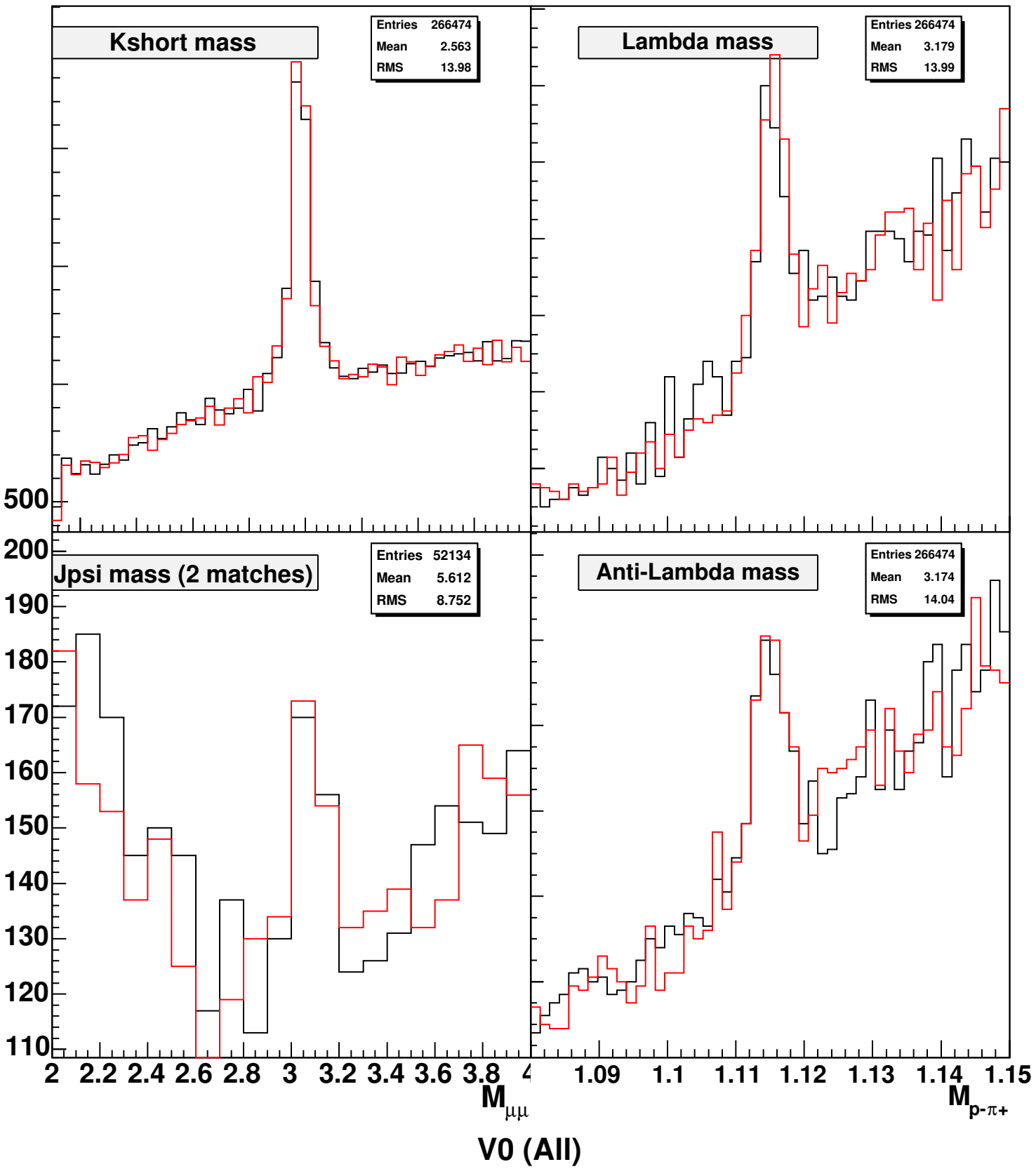


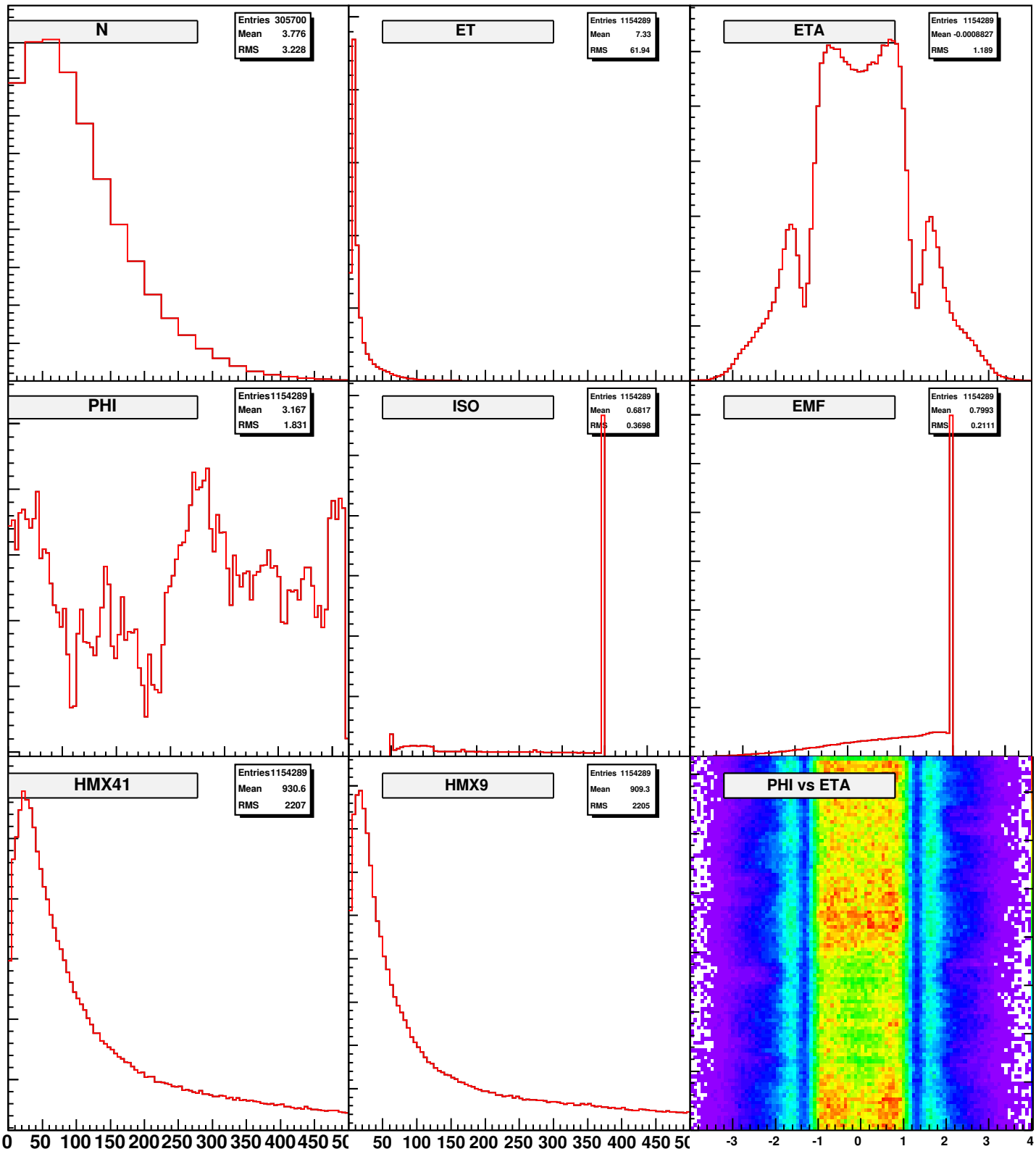
Tracking (Efficiency-InJets)



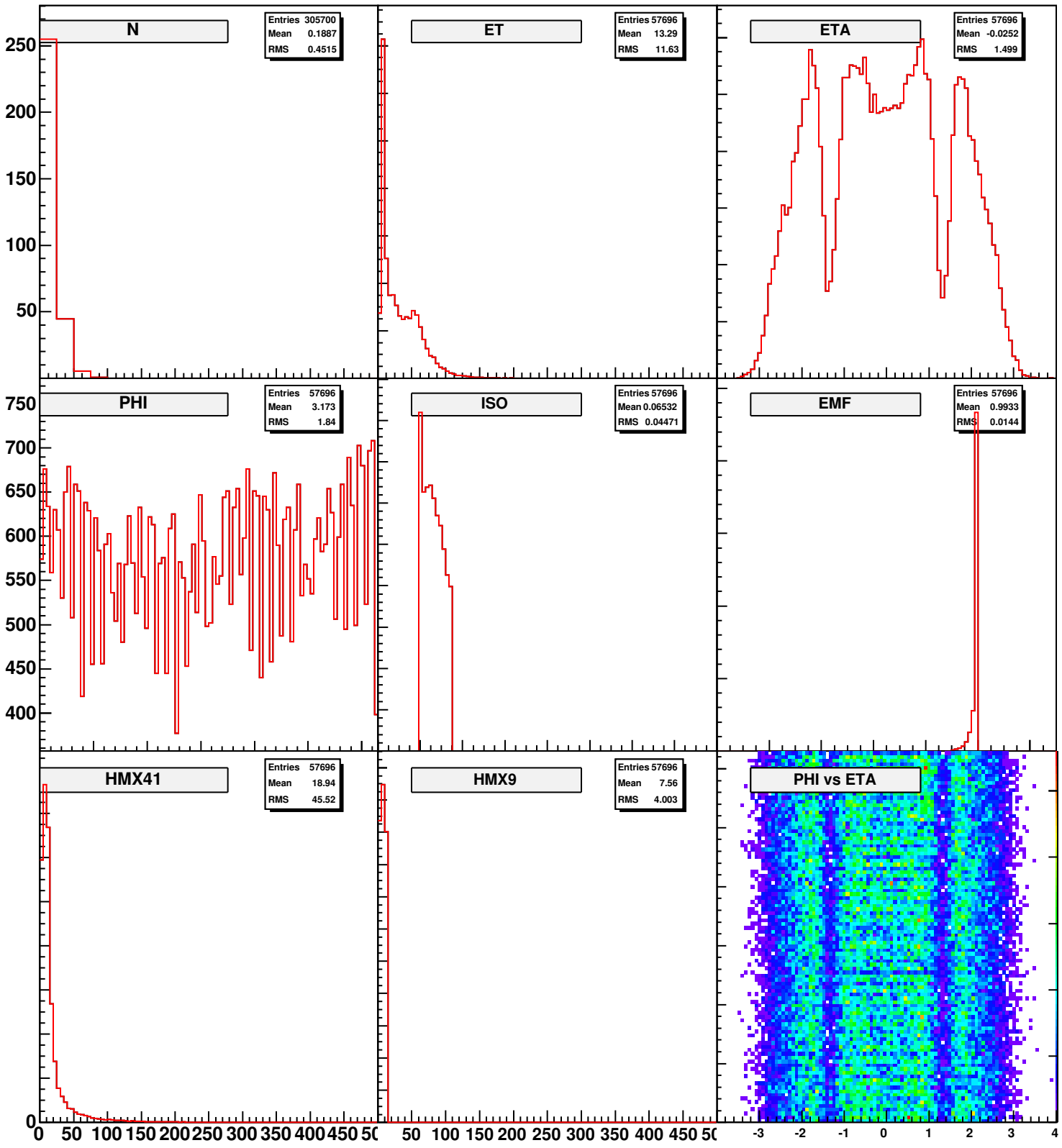
Vertices (Primary - all candidates)


N
Entries 305700
Mean 0.9863
RMS 0.1162
NTRK
Entries 301517
Mean 18.64
RMS 10.65
Chisq prob
Entries 301517
Mean 0.102
RMS 0.2072
X
Entries 301517
Mean 0.01759
RMS 0.428
Y
Entries 301517
Mean 0.0575
RMS 0.2186
Z
Entries 301517
Mean -1.321
RMS 25.21
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)

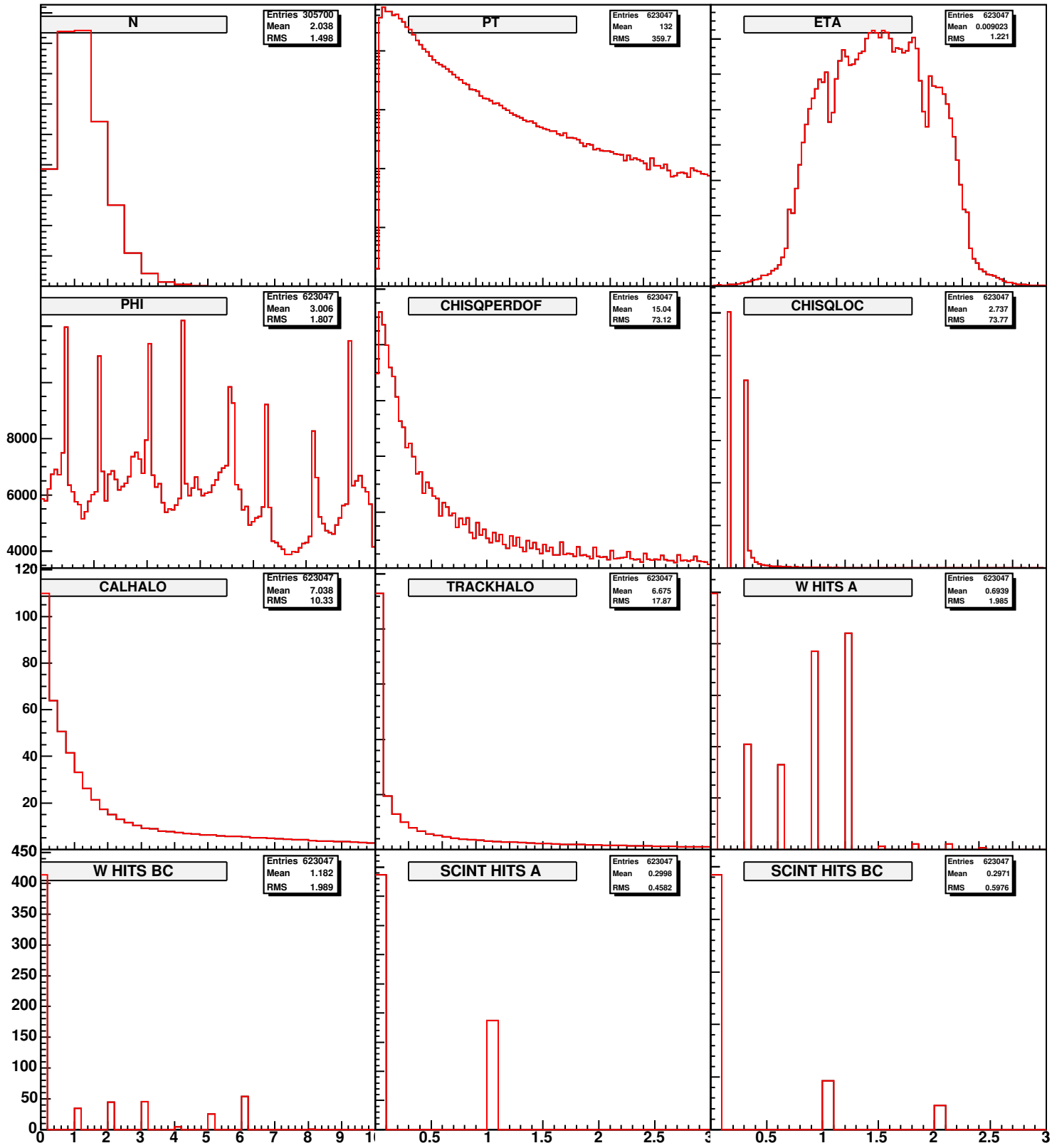

Kshort mass
Entries 266474
Mean 2.563
RMS 13.98
Lambda mass
Entries 266474
Mean 3.179
RMS 13.99
Jpsi mass (2 matches)
Entries 52134
Mean 5.612
RMS 8.752
Anti-Lambda mass
Entries 266474
Mean 3.174
RMS 14.04
500
200
190
180
170
160
150
140
130
120
110
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
M$_{\mu\mu}$
1.09 1.1 1.11 1.12 1.13 1.14 1.15
M$_{p\text{-}\pi+}$
V0 (All)



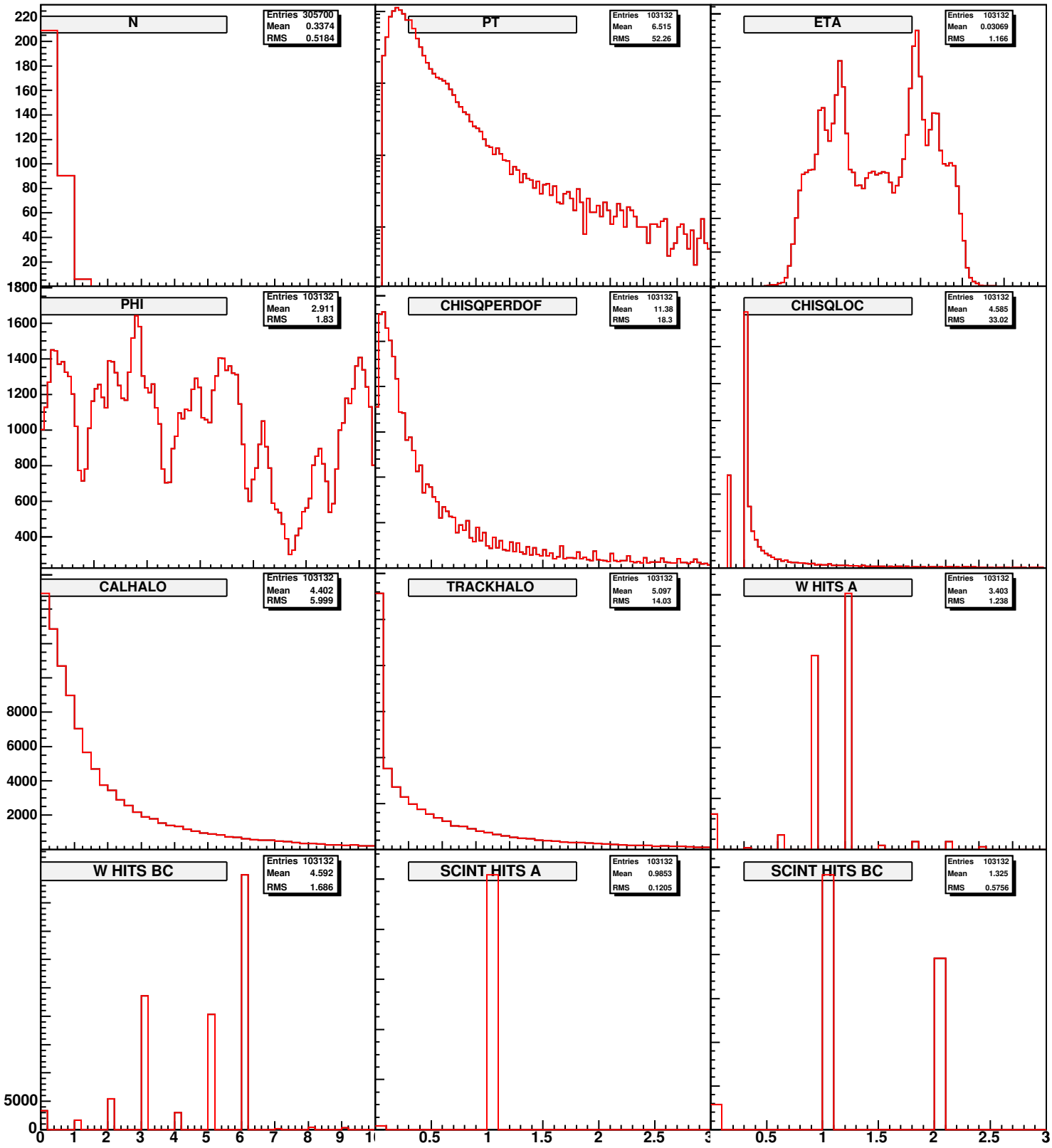
Electrons (SCONE All)



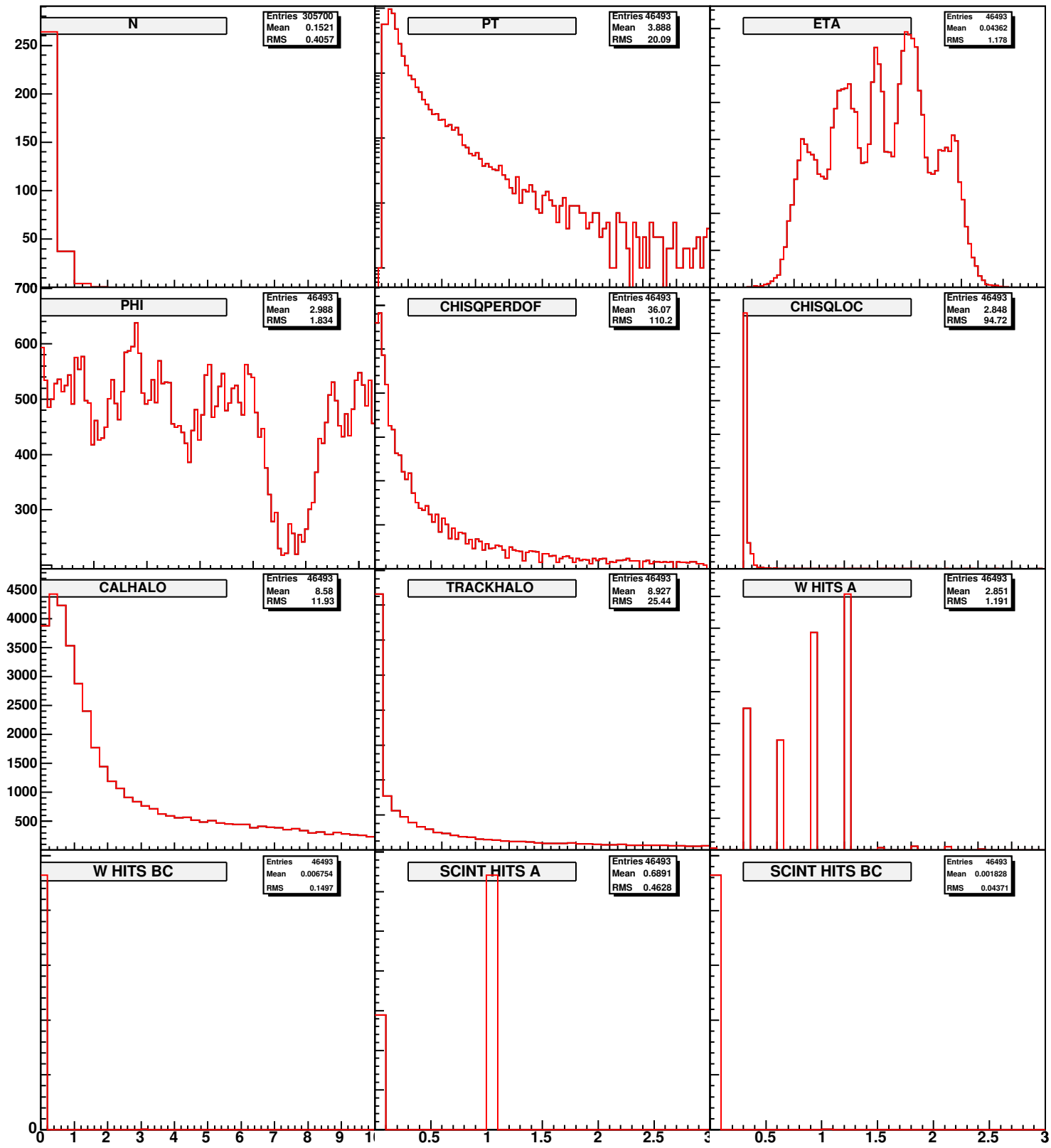
Electrons (SCONE Tight)


N
Entries 305700
Mean 2.038
RMS 1.498
PT
Entries 623047
Mean 132
RMS 359.7
ETA
Entries 623047
Mean 0.009023
RMS 1.221
PHI
Entries 623047
Mean 3.006
RMS 1.807
CHISQPERDOF
Entries 623047
Mean 15.04
RMS 73.12
CHISQLOC
Entries 623047
Mean 2.737
RMS 73.77
CALHALO
Entries 623047
Mean 7.038
RMS 10.33
TRACKHALO
Entries 623047
Mean 6.675
RMS 17.87
W HITS A
Entries 623047
Mean 0.6939
RMS 1.985
W HITS BC
Entries 623047
Mean 1.182
RMS 1.989
SCINT HITS A
Entries 623047
Mean 0.2998
RMS 0.4582
SCINT HITS BC
Entries 623047
Mean 0.2971
RMS 0.5976

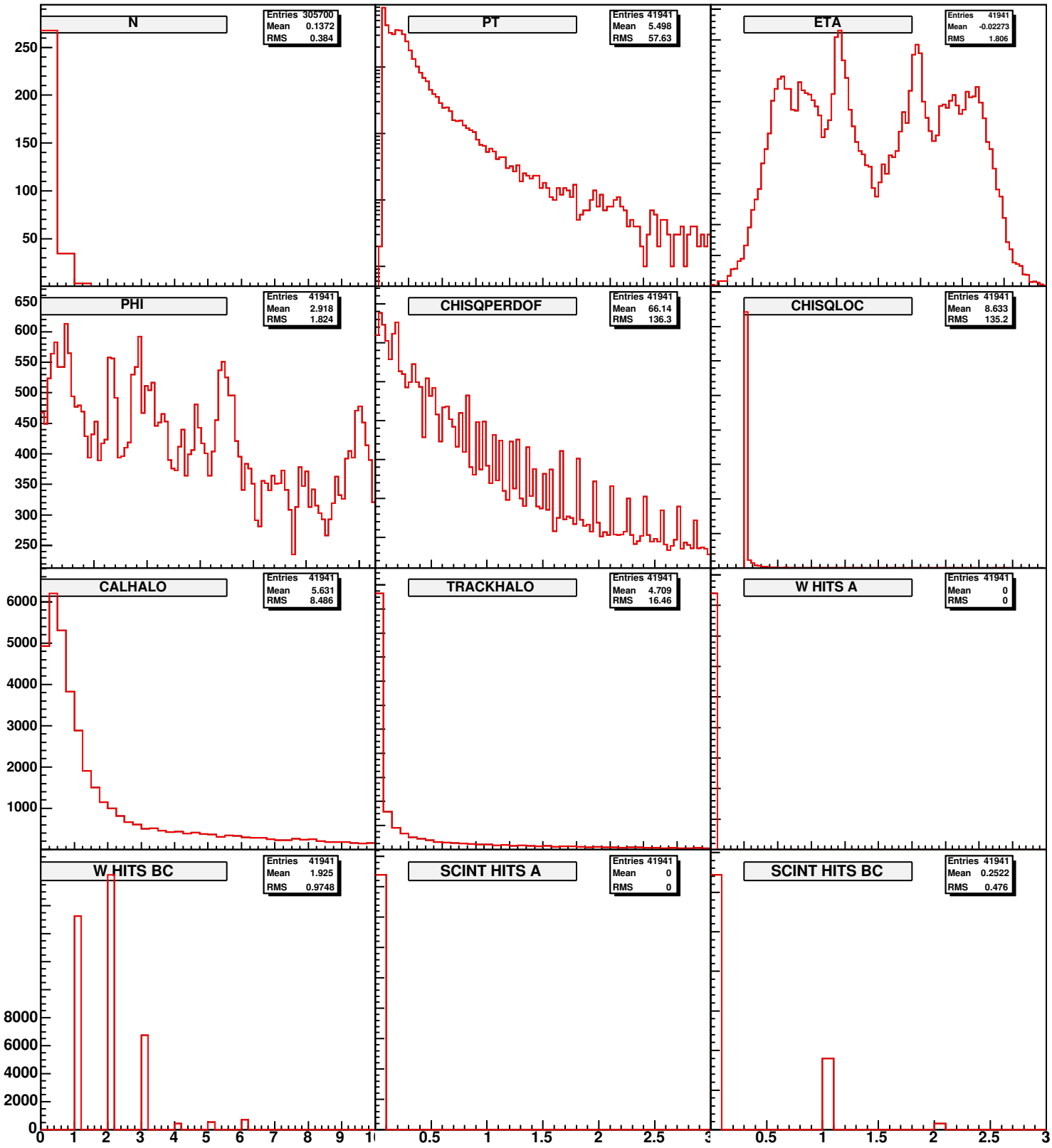
Muons (All)



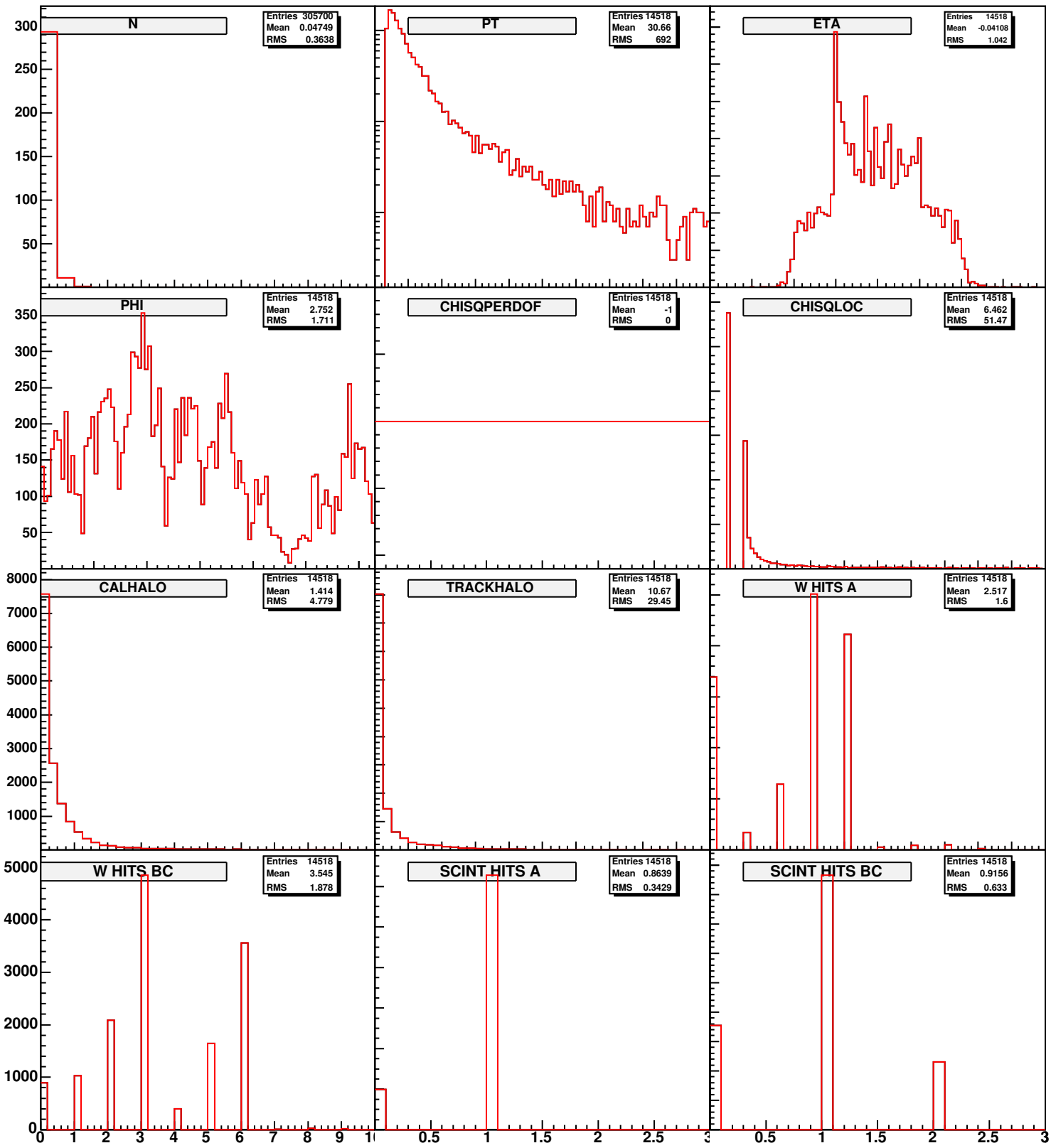
Muons (Matched)


N
Entries 305700
Mean 0.1521
RMS 0.4057
PT
Entries 46493
Mean 3.888
RMS 20.09
ETA
Entries 46493
Mean 0.04362
RMS 1.178
PHI
Entries 46493
Mean 2.988
RMS 1.834
CHISQPERDOF
Entries 46493
Mean 36.07
RMS 110.2
CHISQLOC
Entries 46493
Mean 2.848
RMS 94.72
CALHALO
Entries 46493
Mean 8.58
RMS 11.93
TRACKHALO
Entries 46493
Mean 8.927
RMS 25.44
W HITS A
Entries 46493
Mean 2.851
RMS 1.191
W HITS BC
Entries 46493
Mean 0.006754
RMS 0.1497
SCINT HITS A
Entries 46493
Mean 0.6891
RMS 0.4628
SCINT HITS BC
Entries 46493
Mean 0.001828
RMS 0.04371

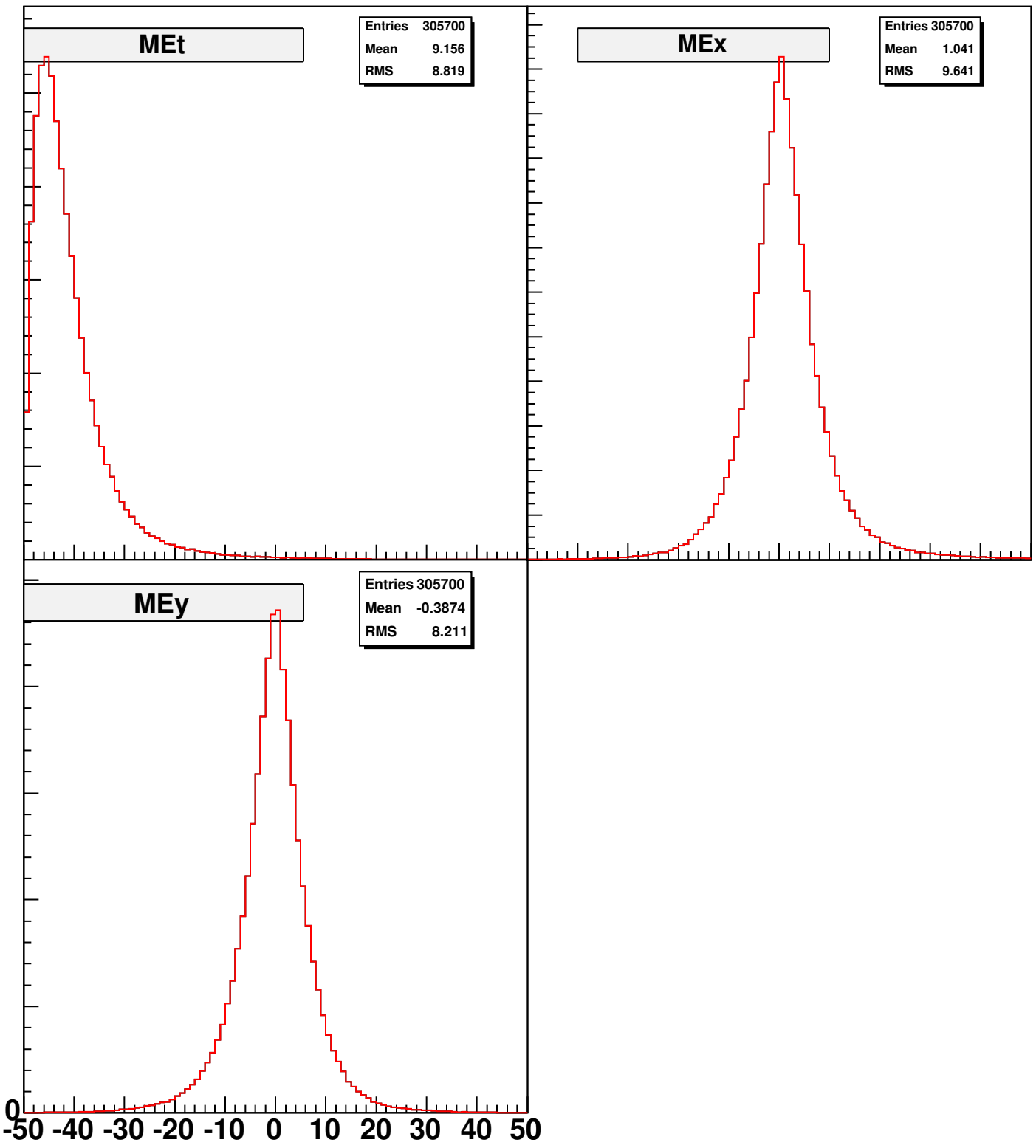
Muons (Astub)

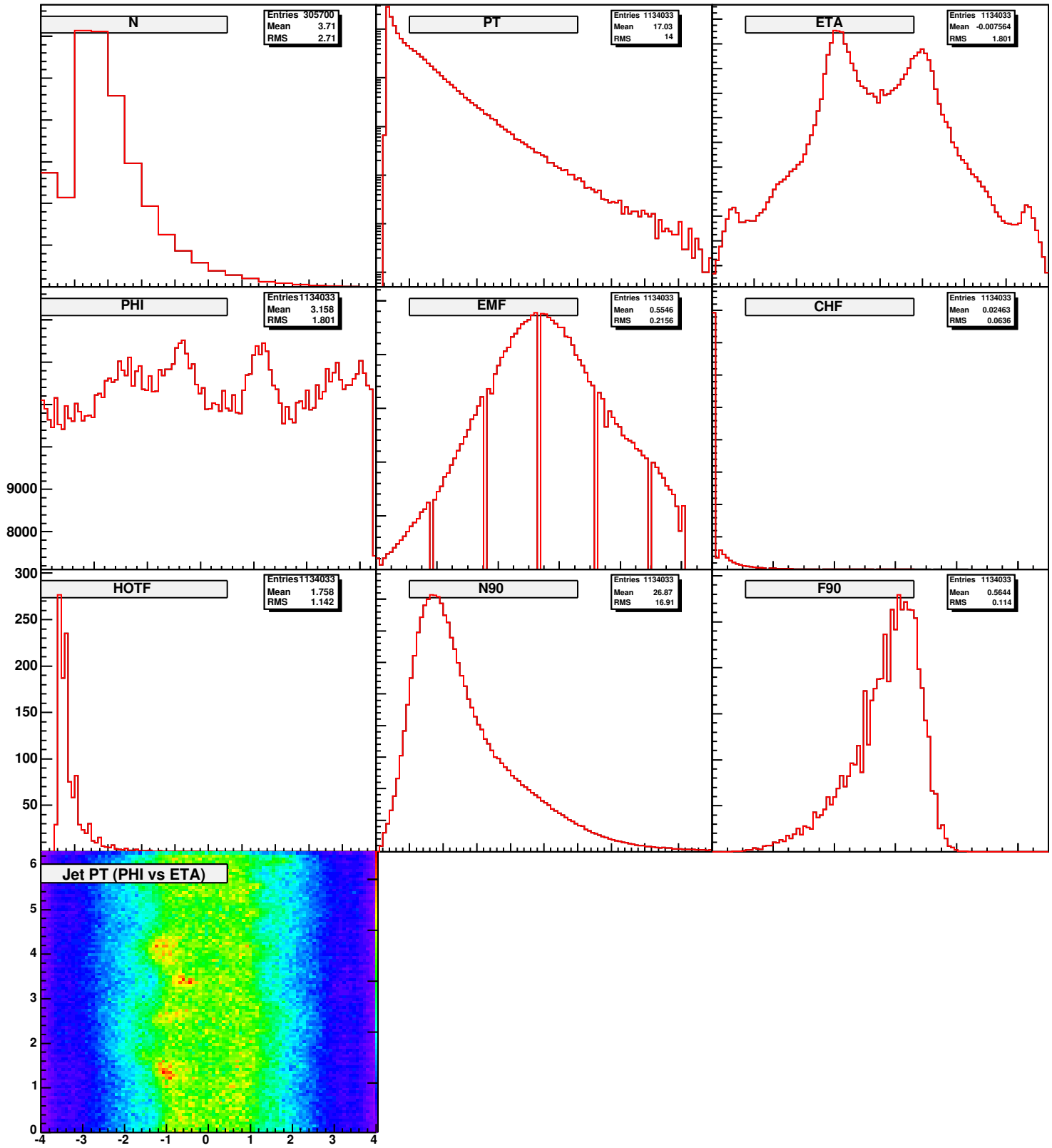


Muons (BCstub)

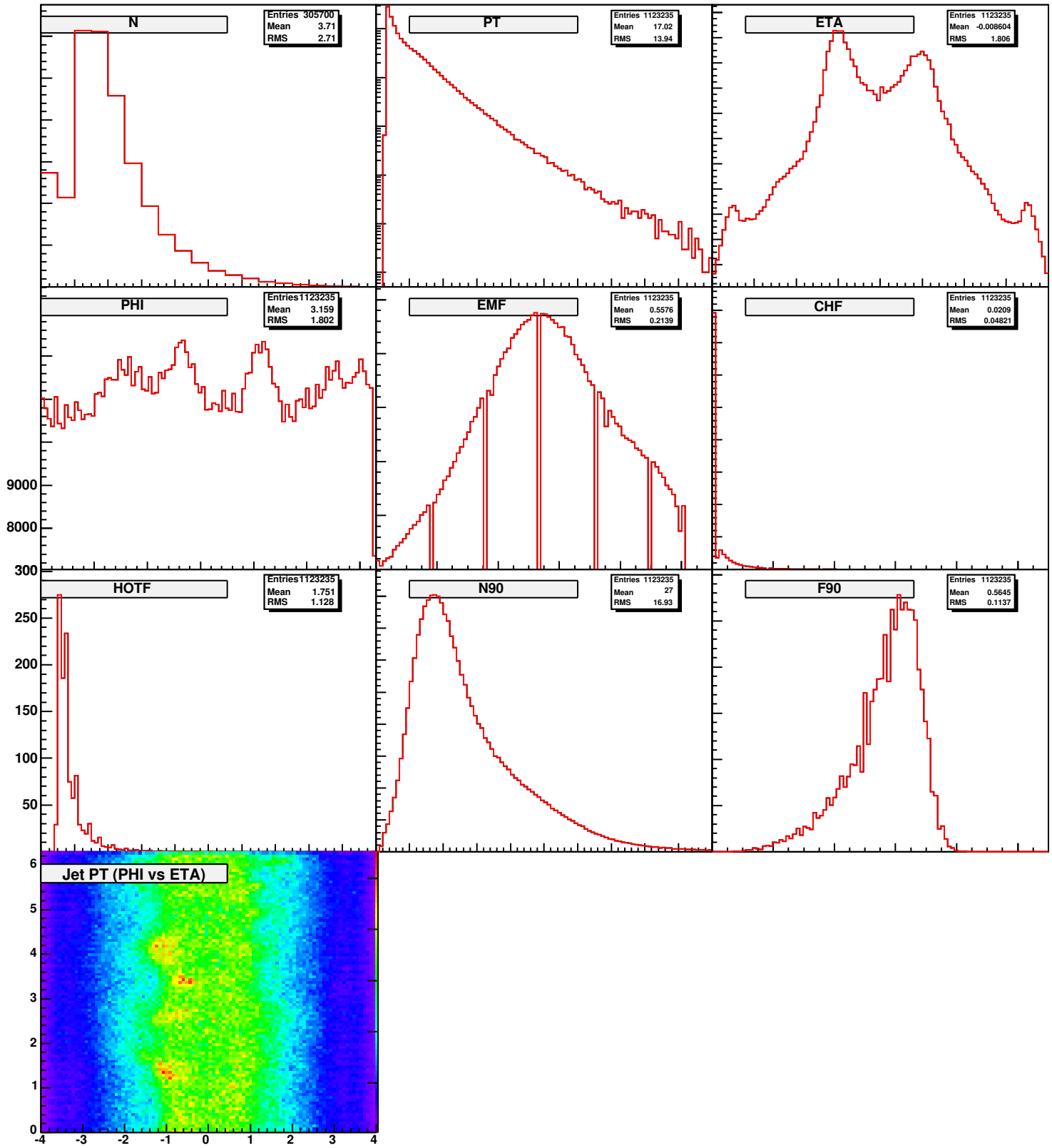


Muons (Unmatched)

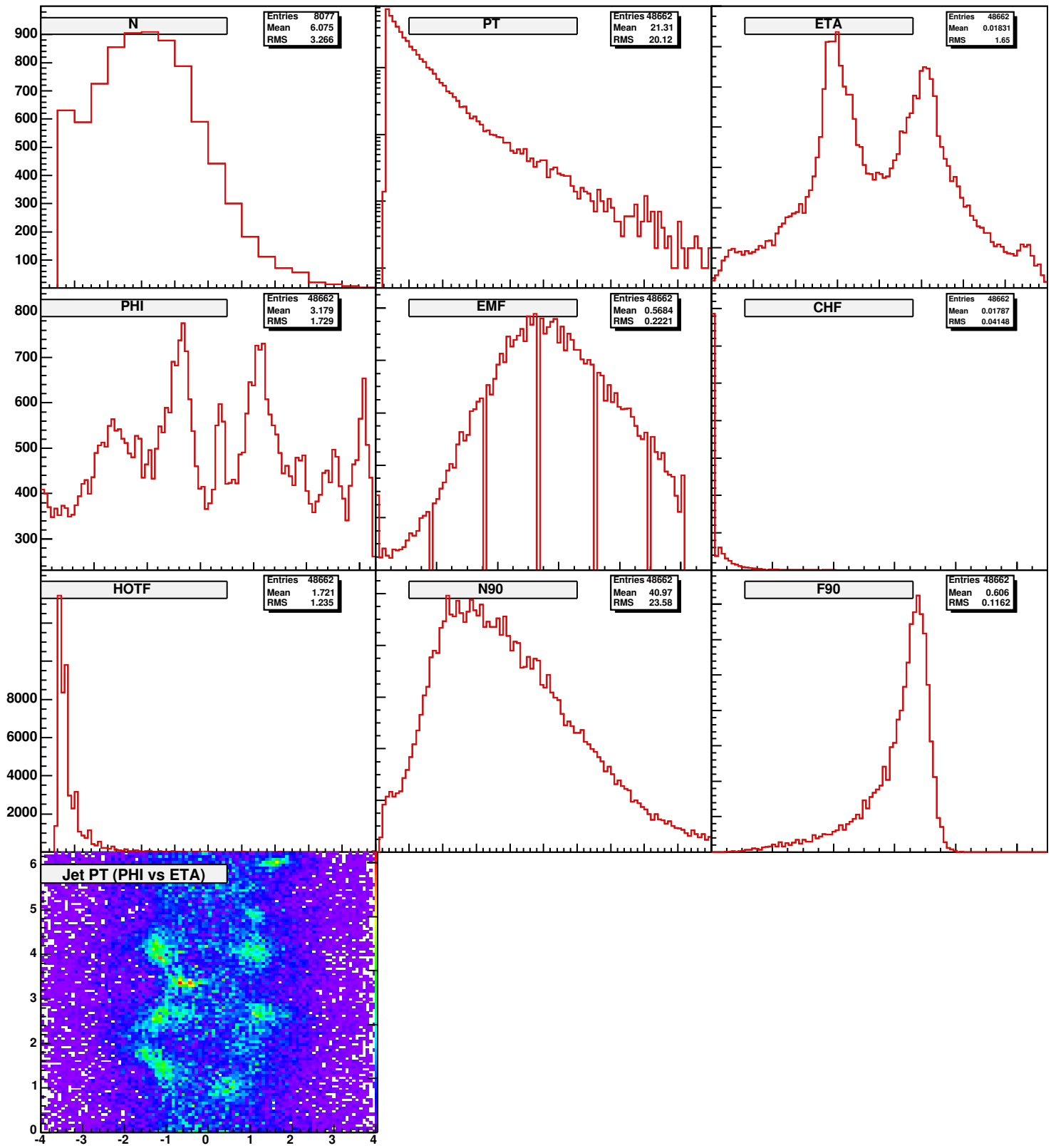

MEt
Entries 305700
Mean 9.156
RMS 8.819
MEx
Entries 305700
Mean 1.041
RMS 9.641
MEy
Entries 305700
Mean -0.3874
RMS 8.211
0
-50 -40 -30 -20 -10 0 10 20 30 40 50
Met (No cuts)



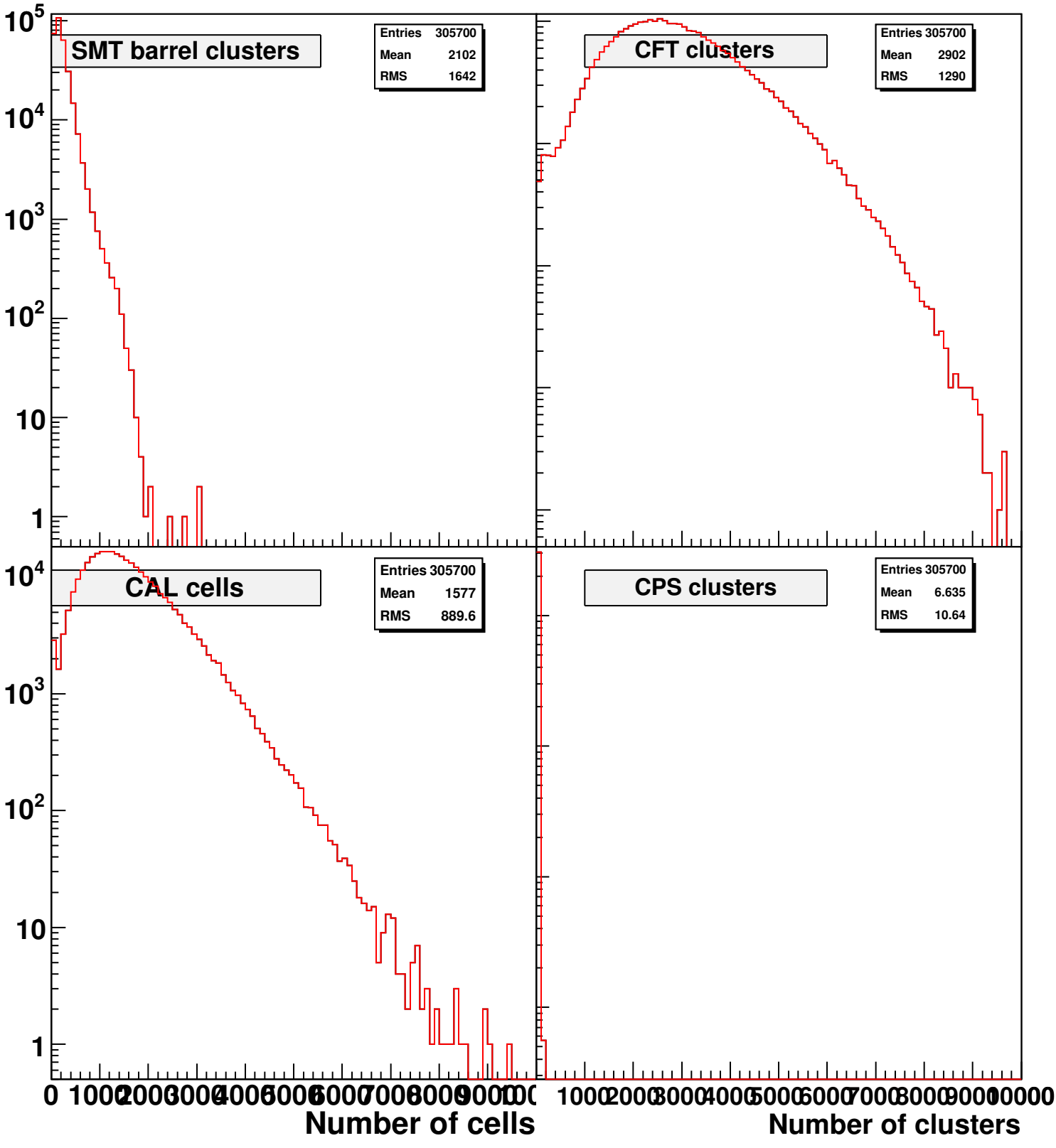
Jets (Cone R 0.7 (no cuts))

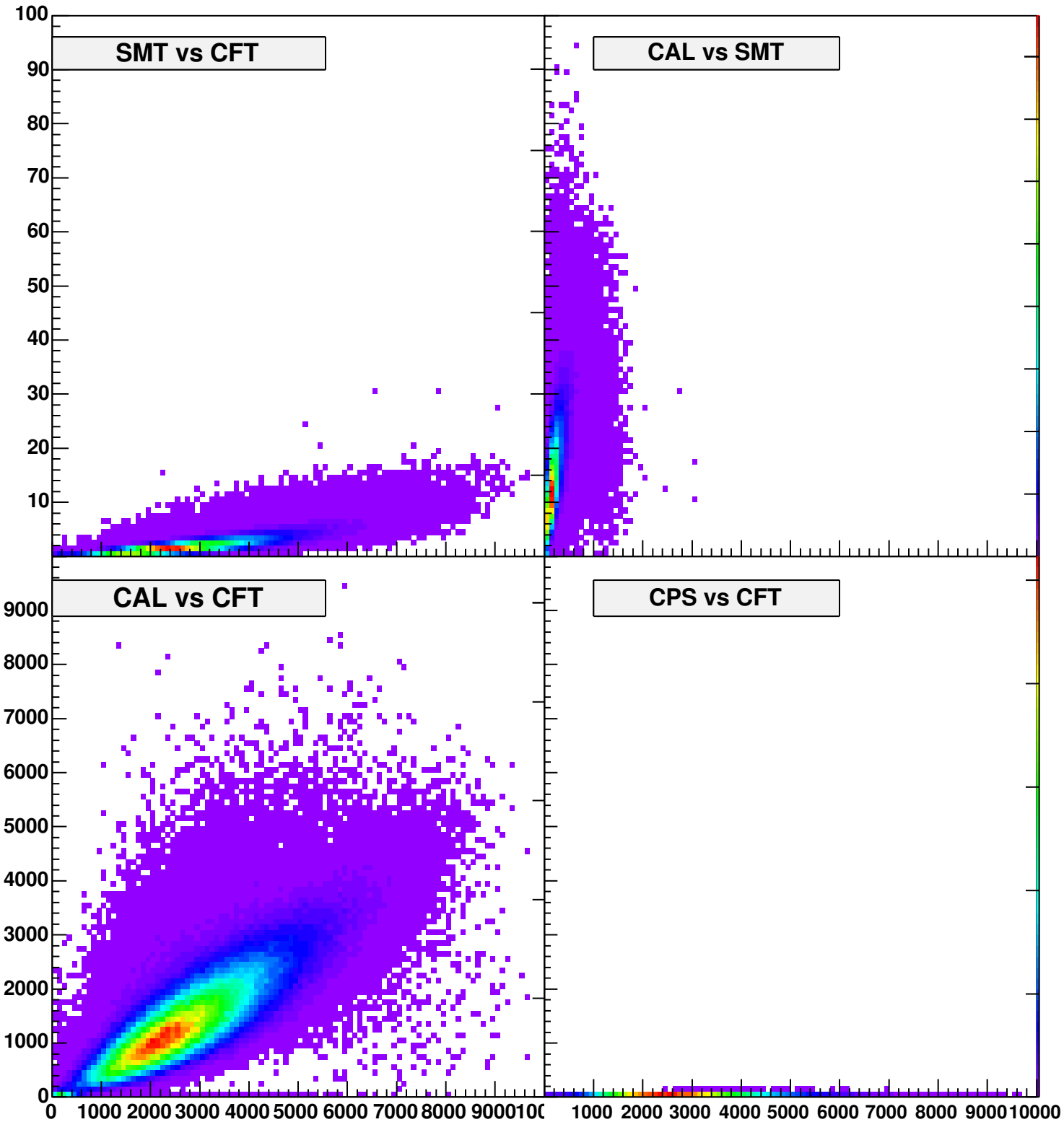


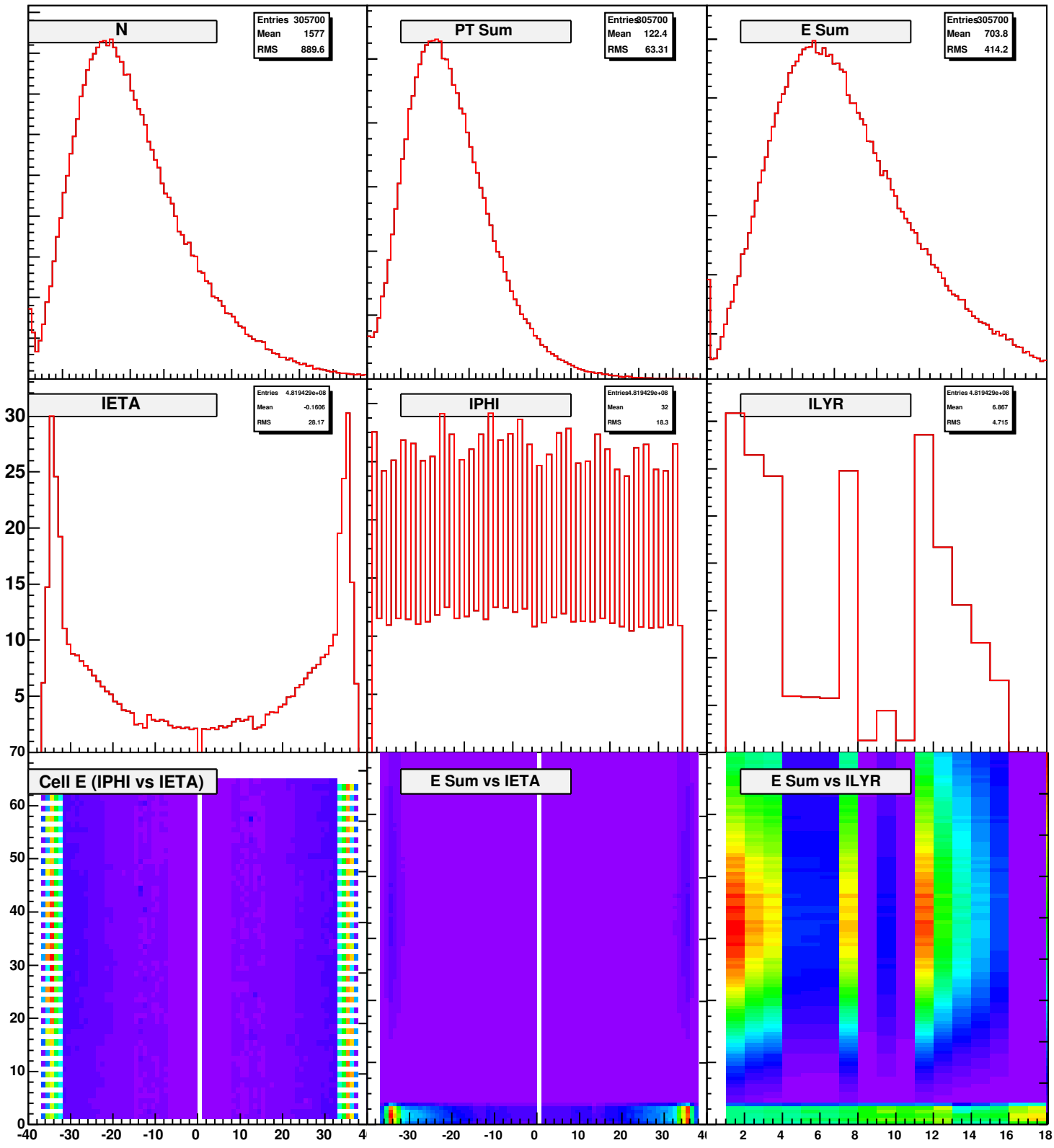
Jets (Cone R 0.7 (standard cuts))



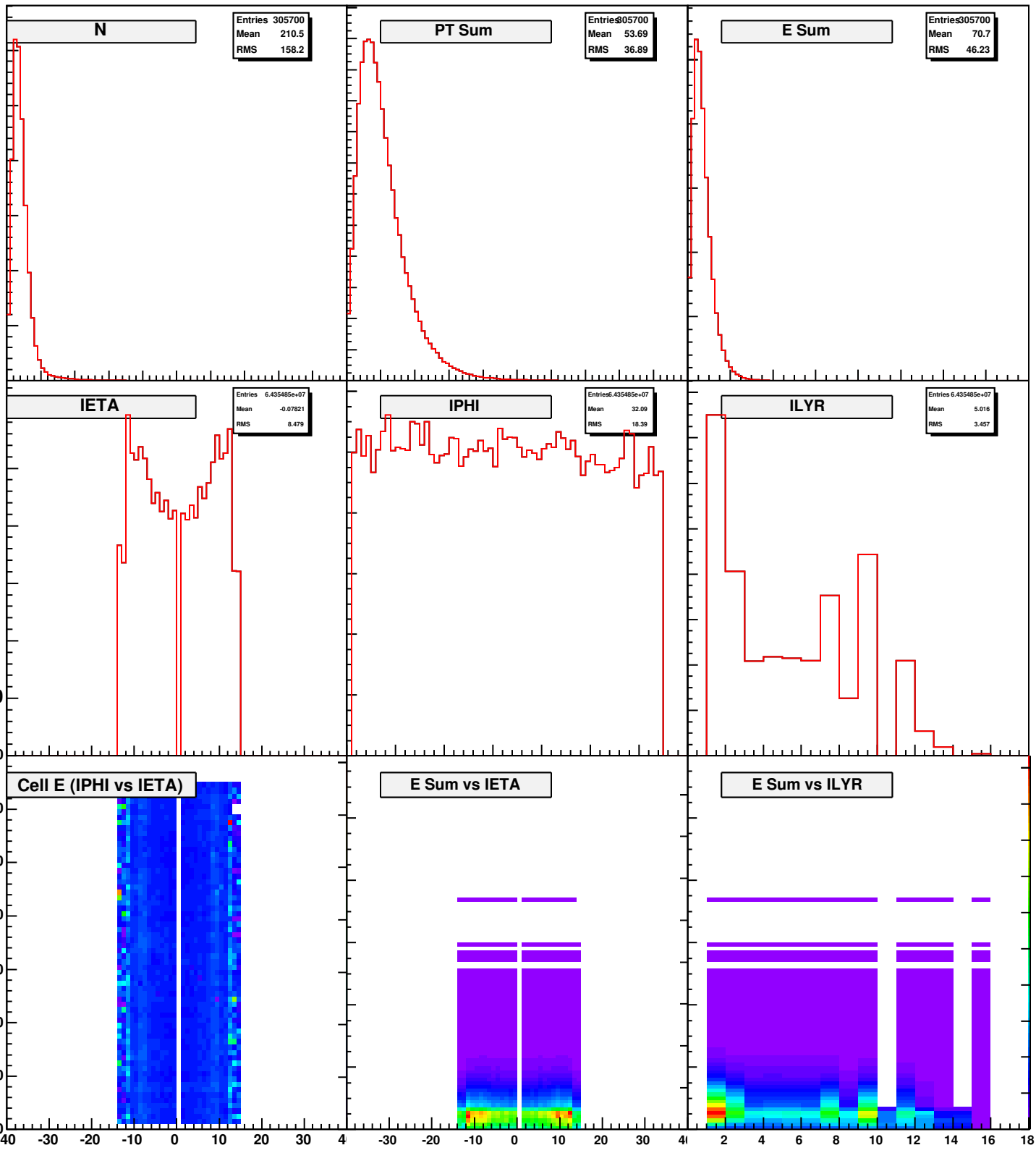
Jets (Cone R 0.7 (standard cuts, MET>30))


SMT barrel clusters
Entries 305700
Mean 2102
RMS 1642
CFT clusters
Entries 305700
Mean 2902
RMS 1290
CAL cells
Entries 305700
Mean 1577
RMS 889.6
CPS clusters
Entries 305700
Mean 6.635
RMS 10.64
Number of cells
Number of clusters
Detector Occupancy (Detector)

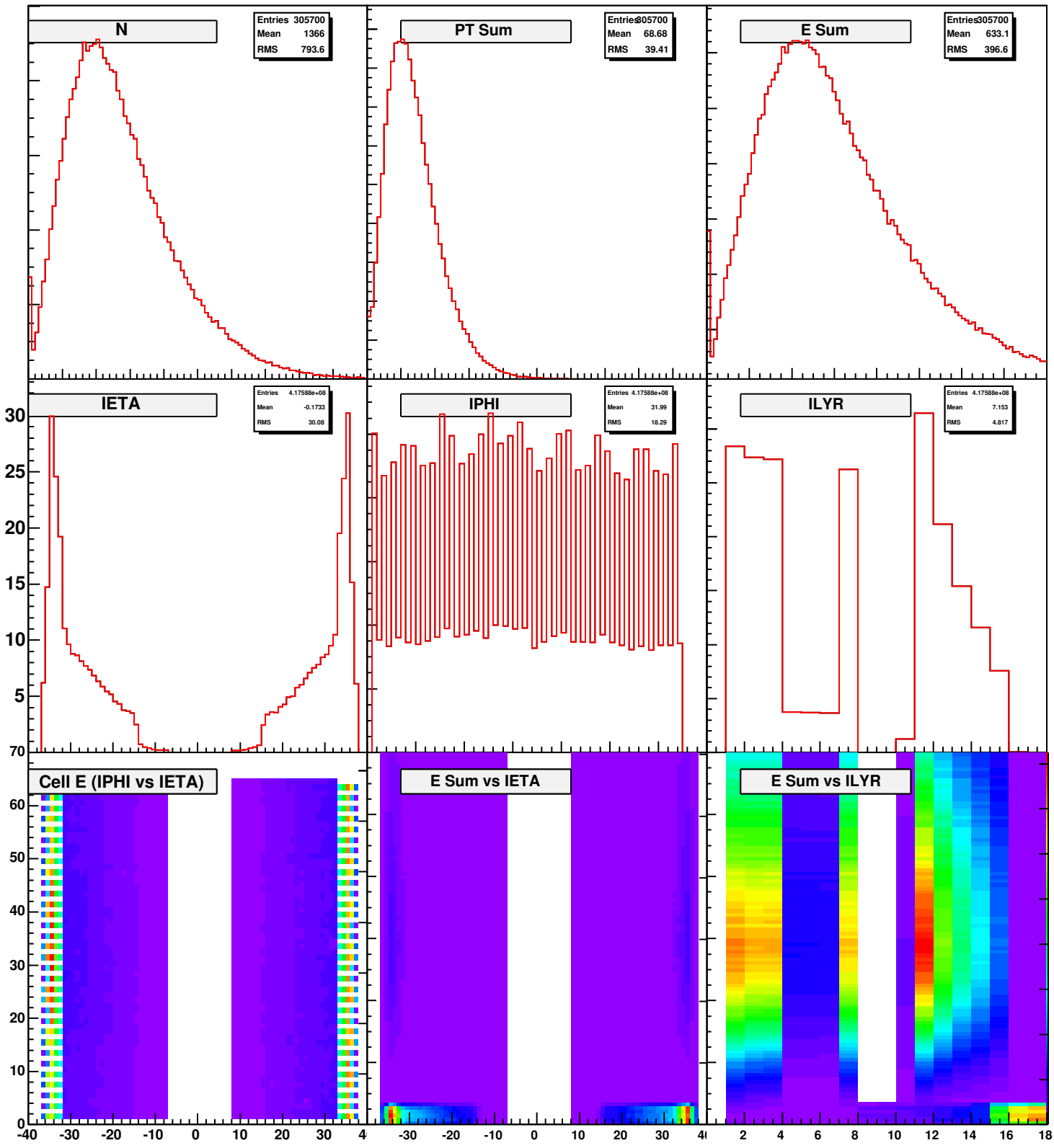

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
100
90
80
70
60
50
40
30
20
10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Detector Occupancy (Detector)



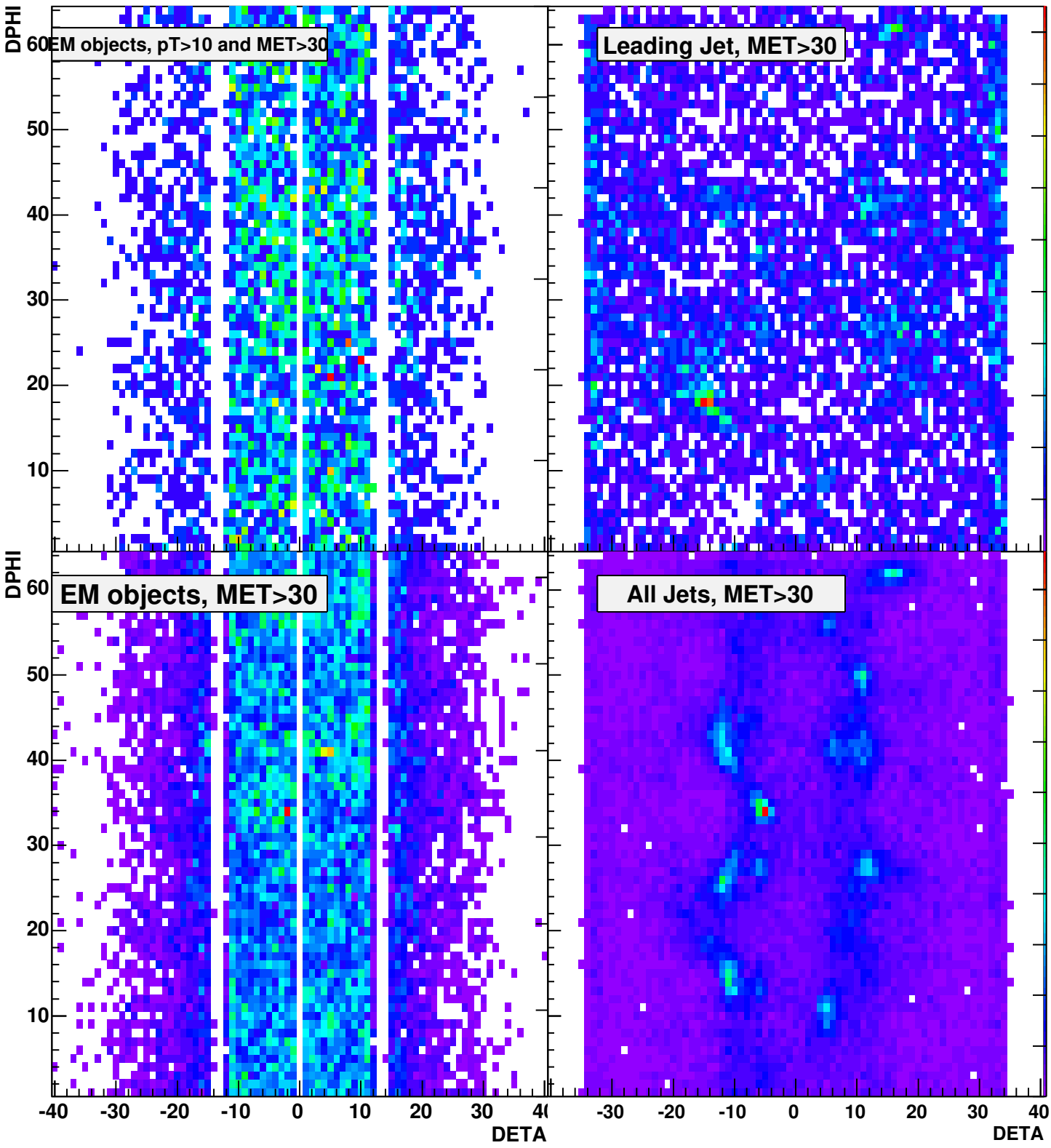
Calorimeter (All cells)



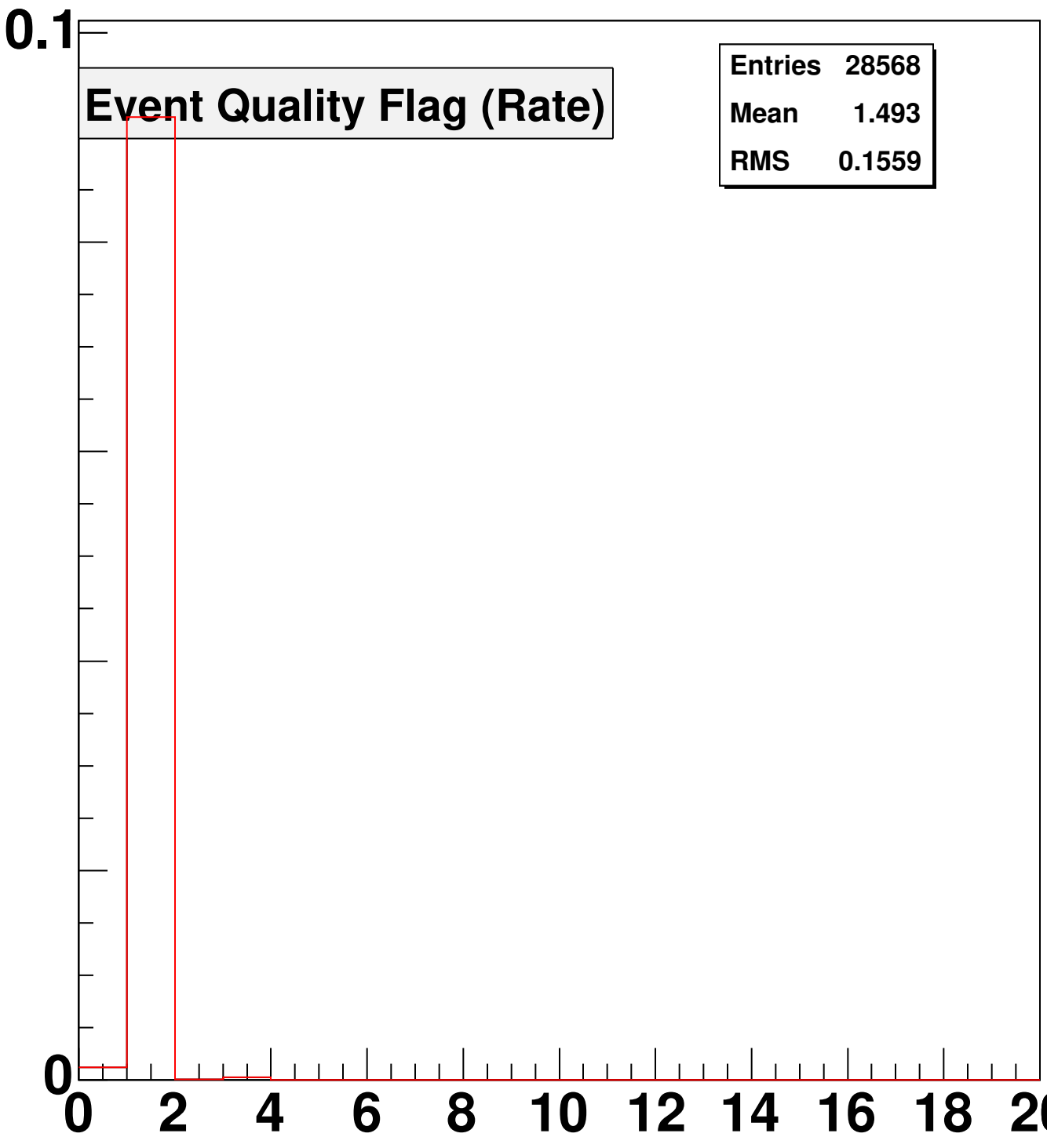
Calorimeter (All CC cells)

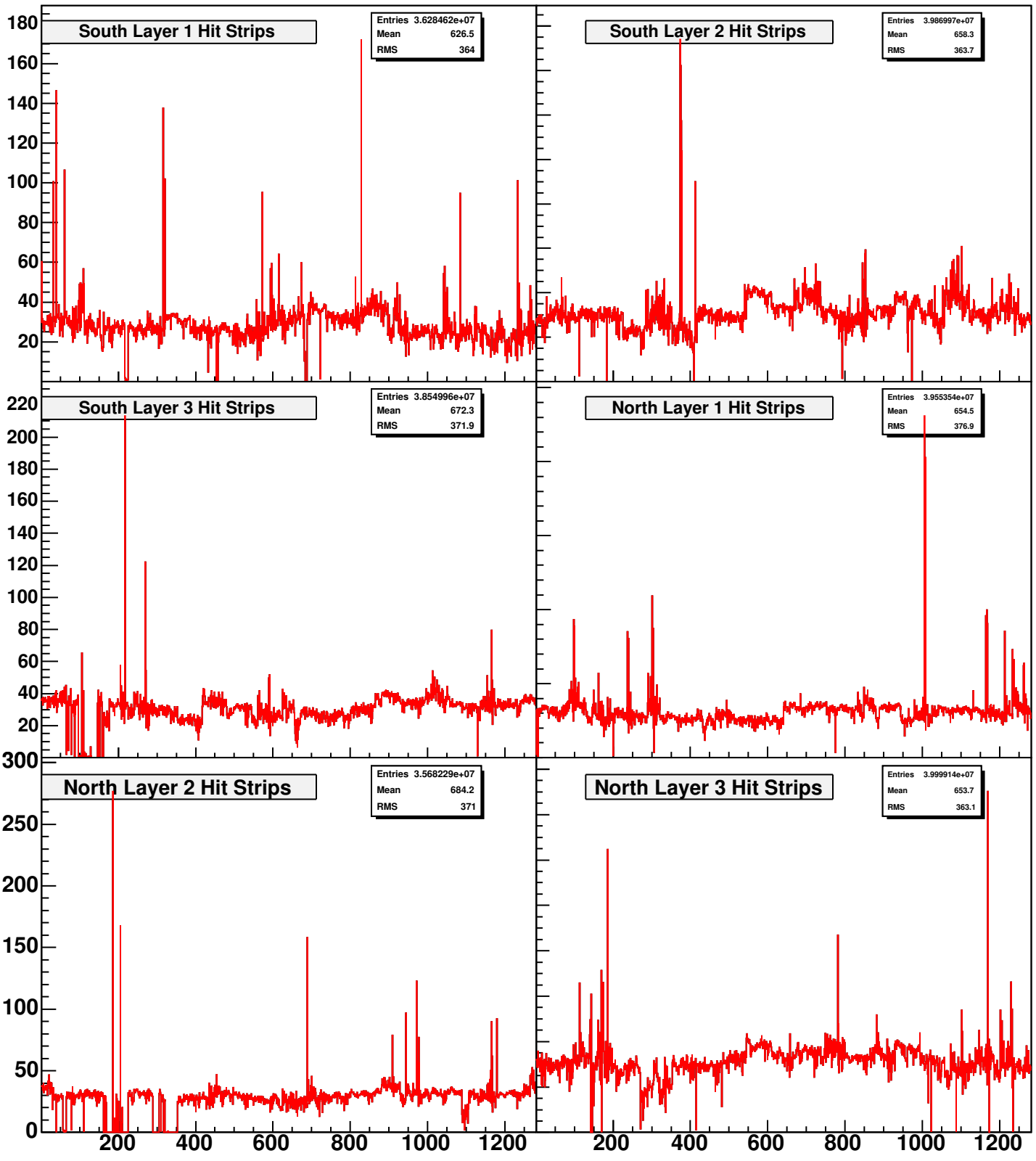


Calorimeter (All EC cells)

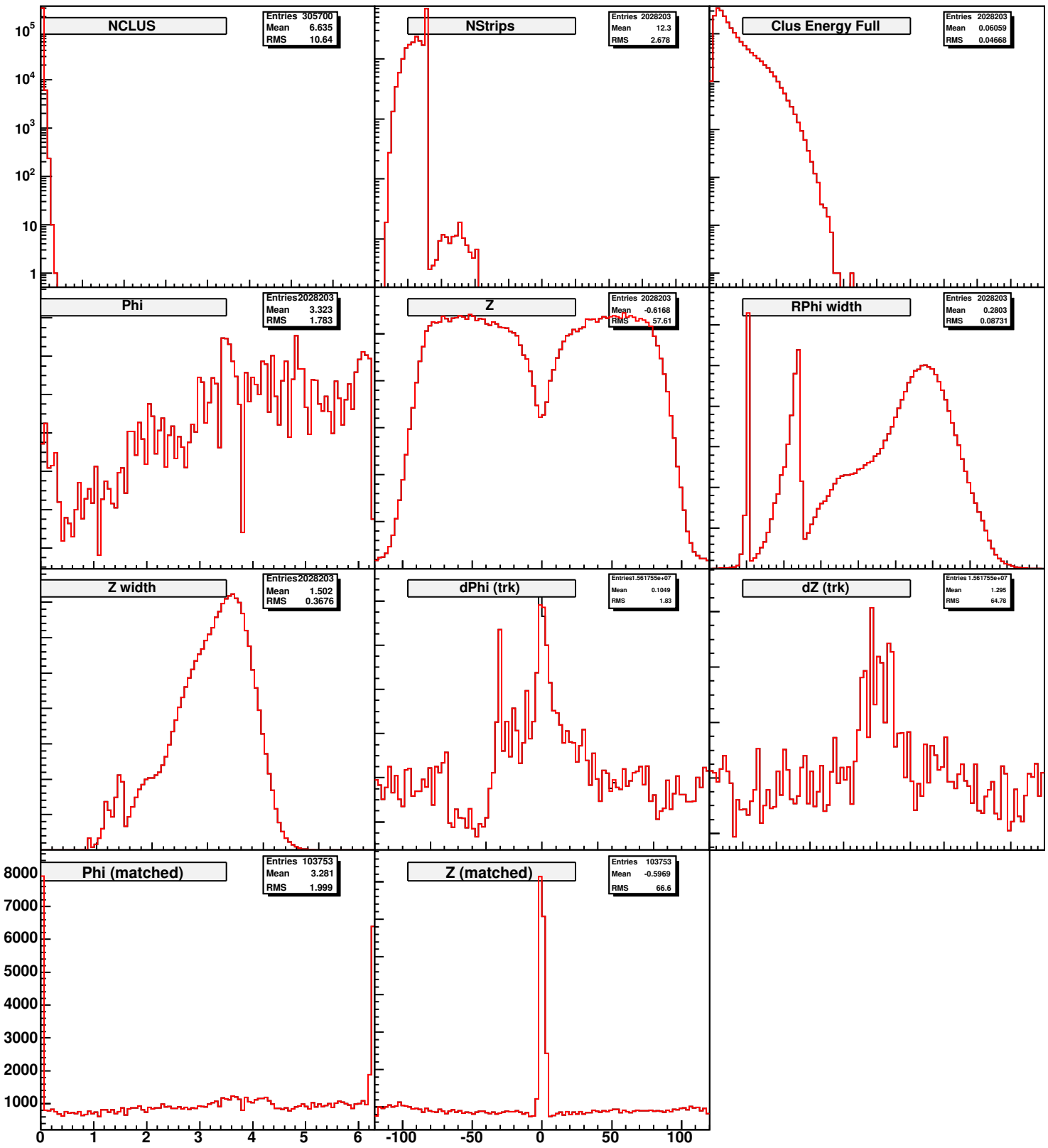


Cal Objects with MET>30 (All cells)

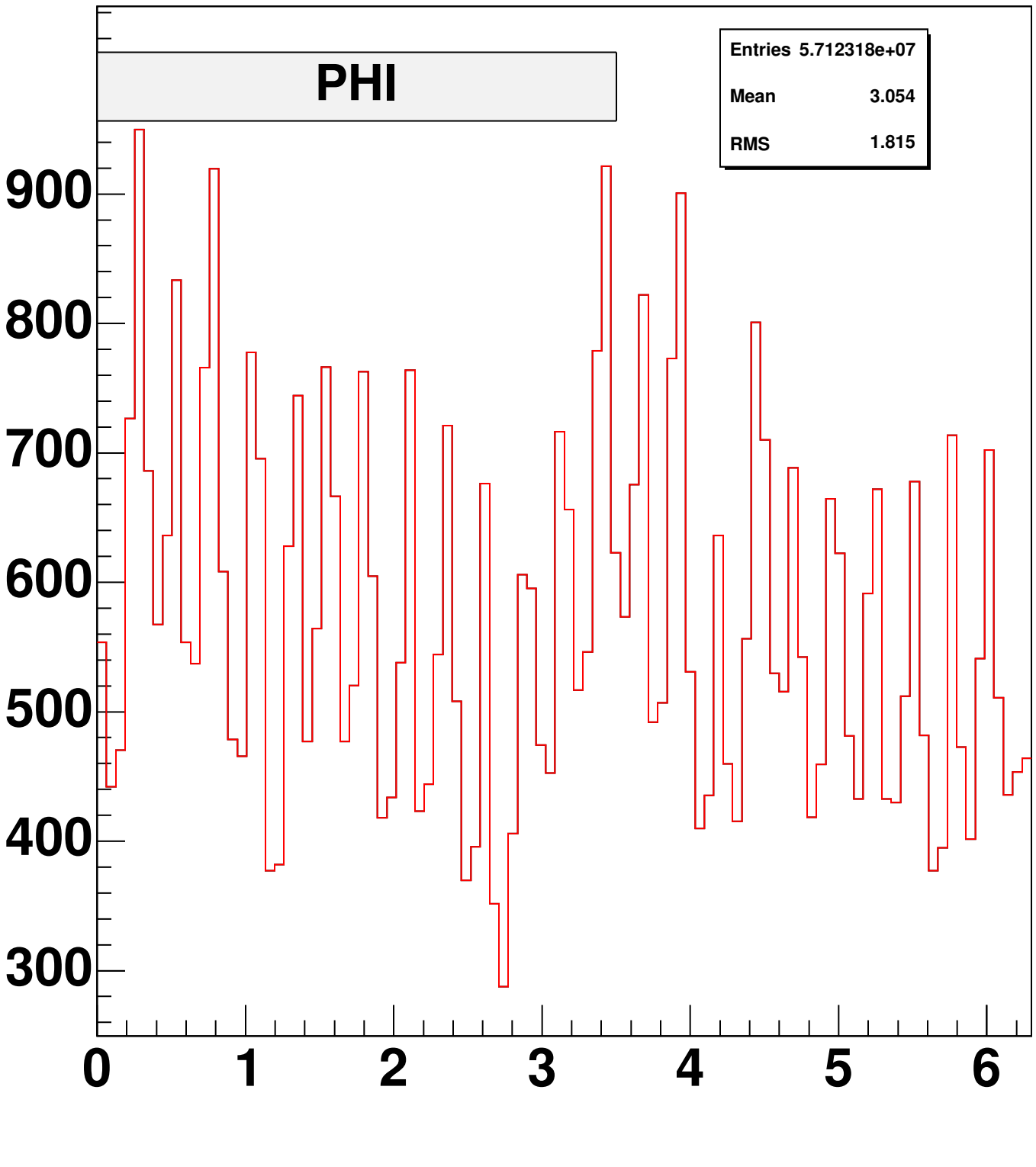

Event Quality Flag (Rate)
Entries 28568
Mean 1.493
RMS 0.1559
0.1
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

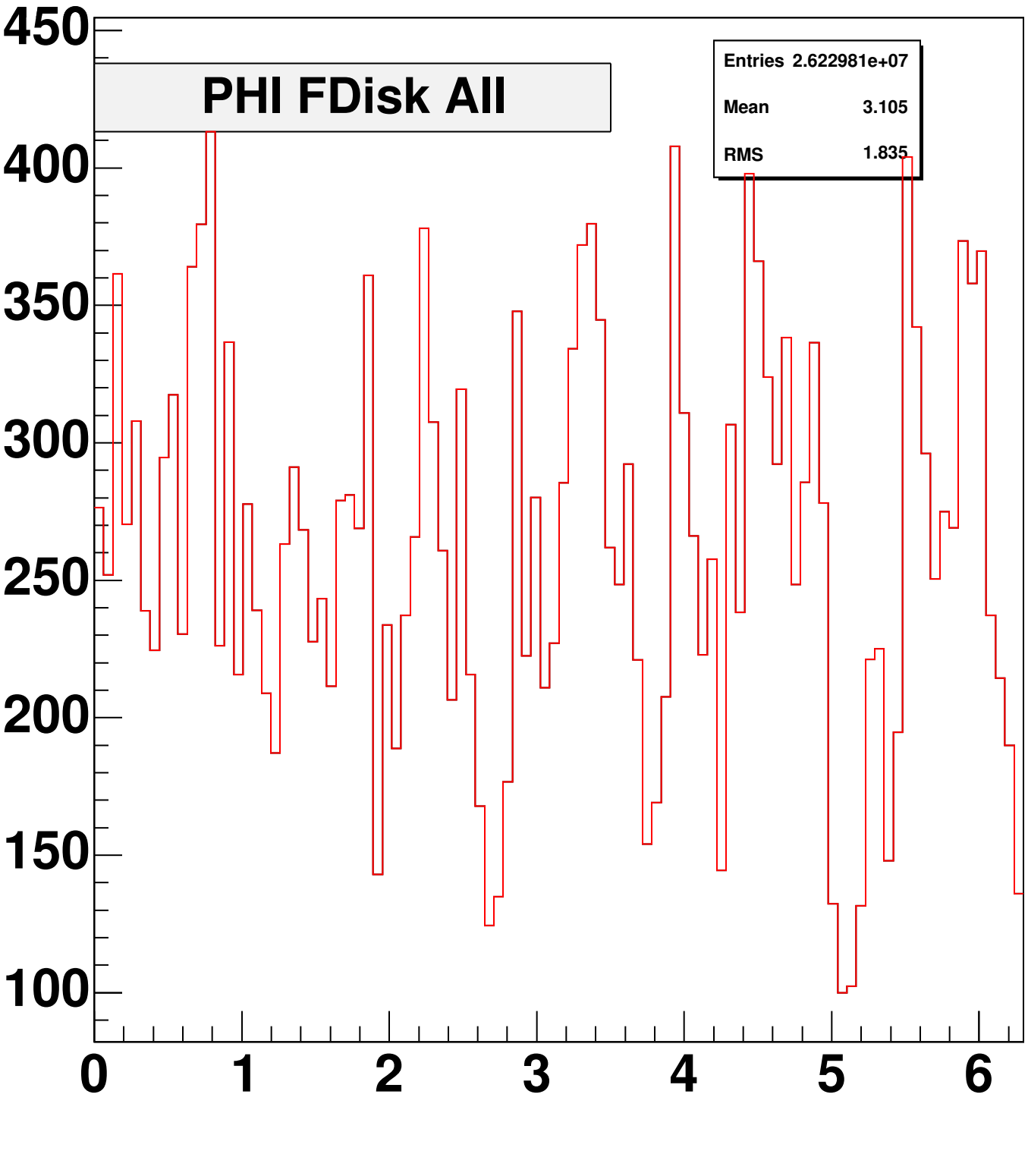


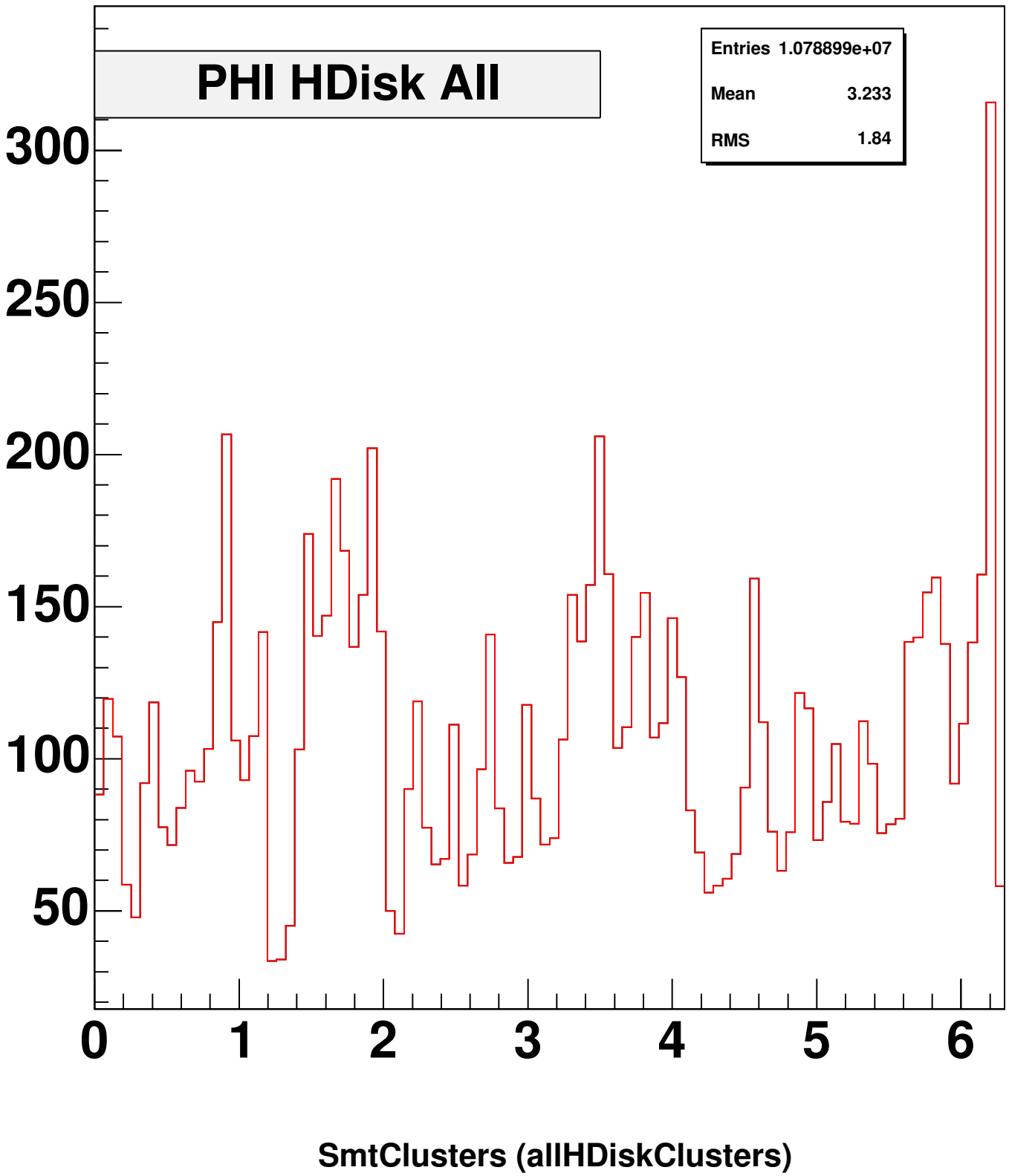
CPS Hit Strips (All Clusters)

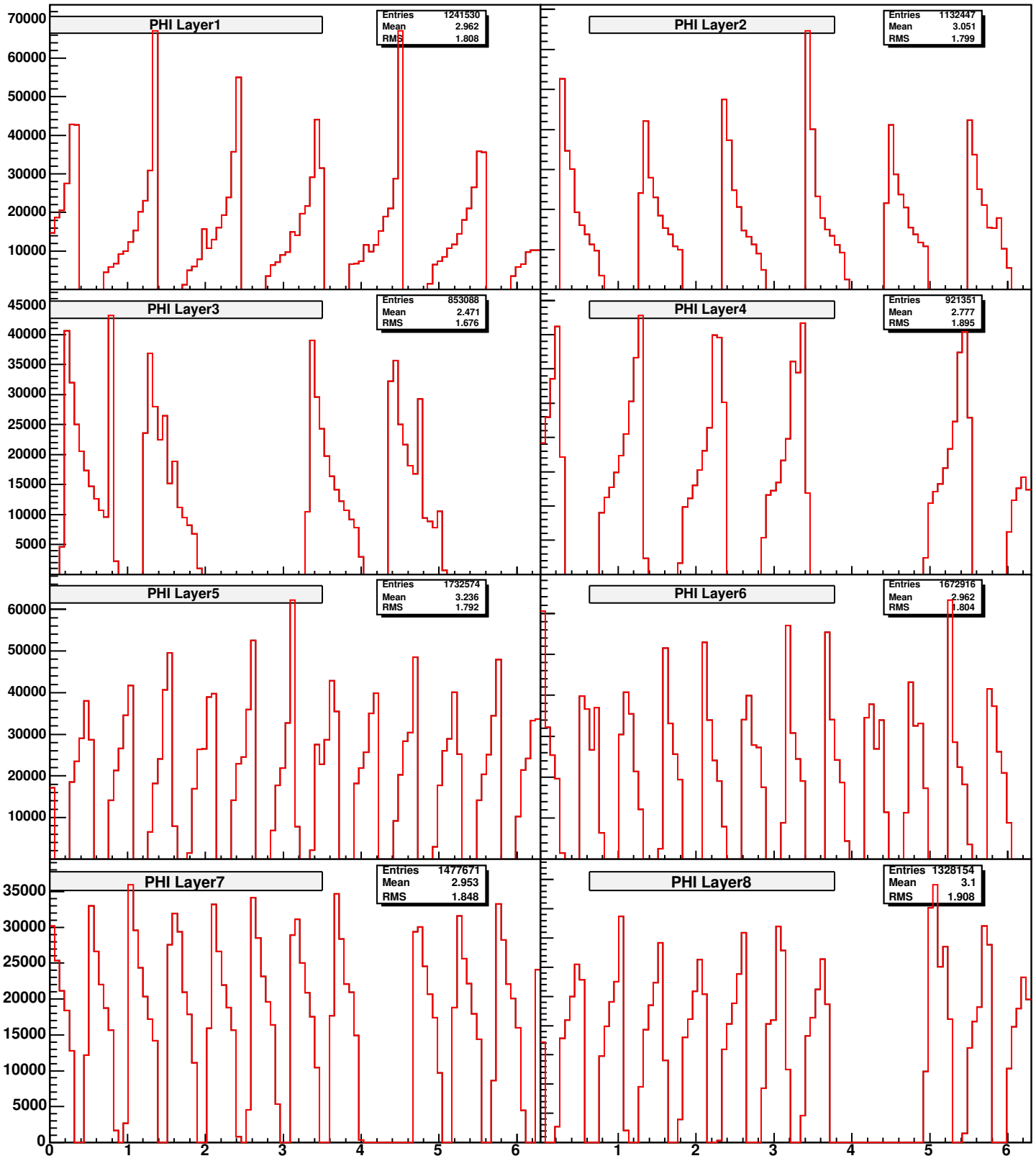


CPS Clusters (All Clusters)

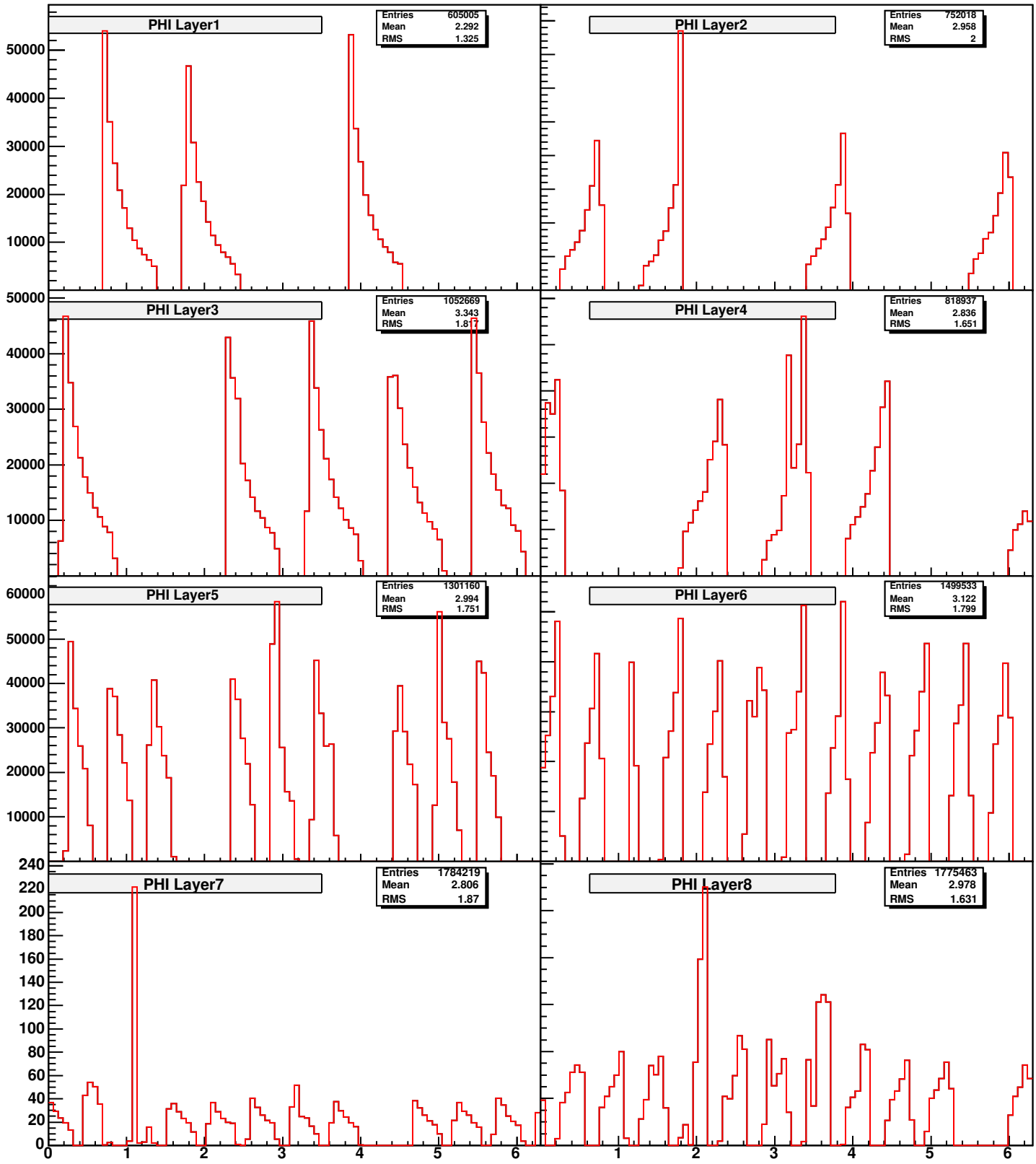

PHI
Entries 5.712318e+07
Mean 3.054
RMS 1.815
900
800
700
600
500
400
300
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 2.622981e+07
Mean 3.105
RMS 1.835
450
400
350
300
250
200
150
100
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

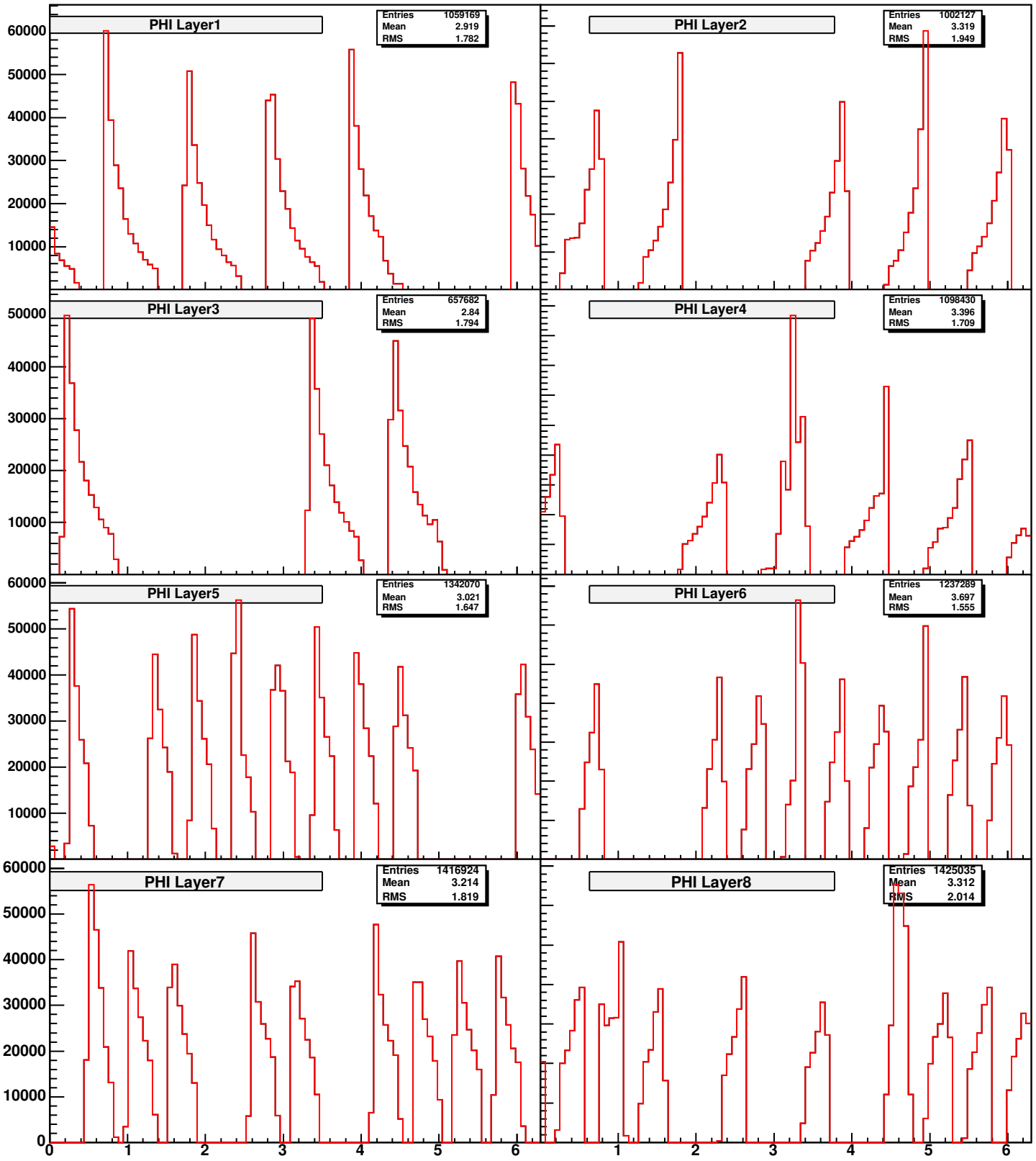

PHI HDisk All
Entries 1.078899e+07
Mean 3.233
RMS 1.84
300
250
200
150
100
50
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

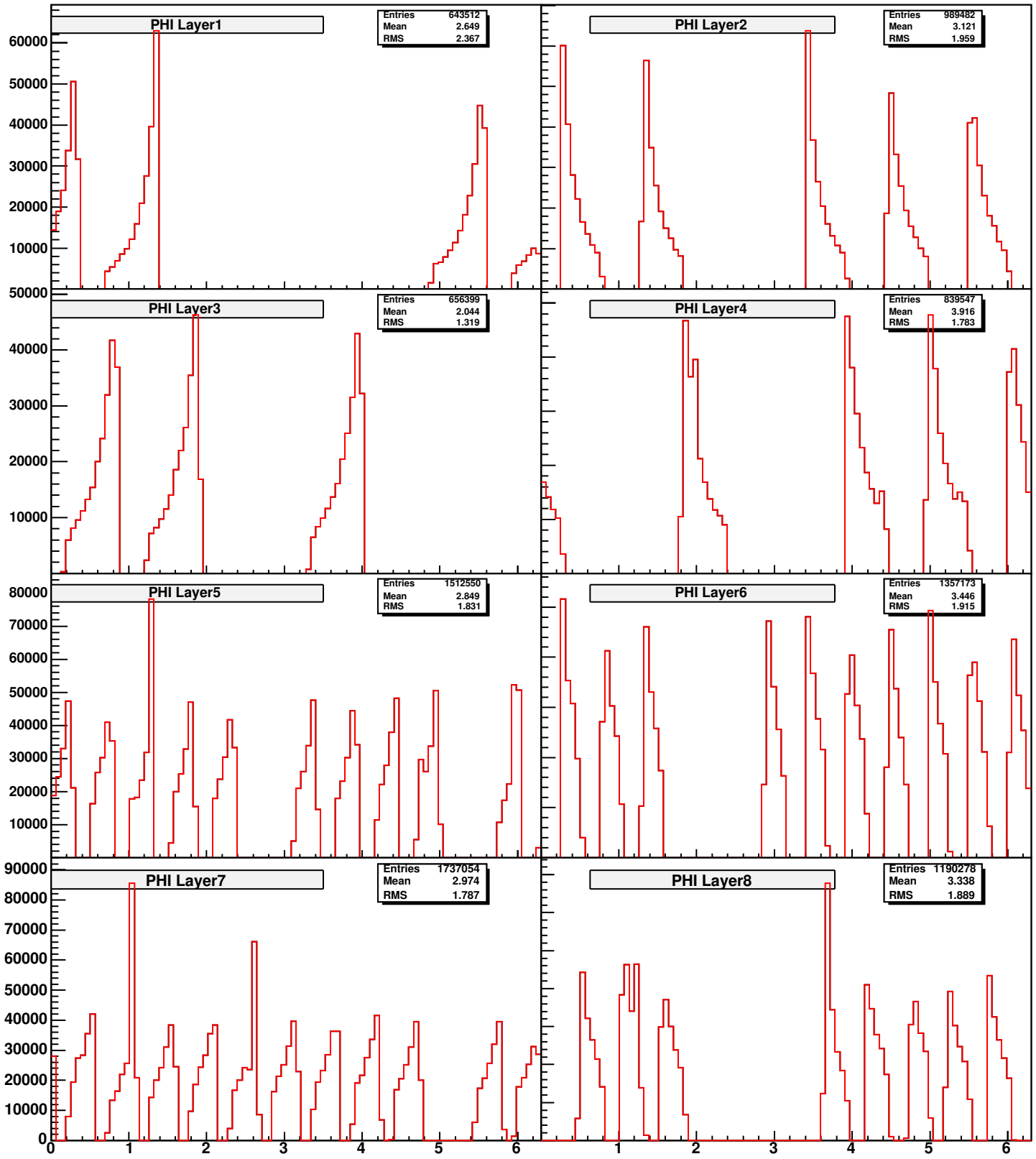


SmtClusters (ClustrBar1)

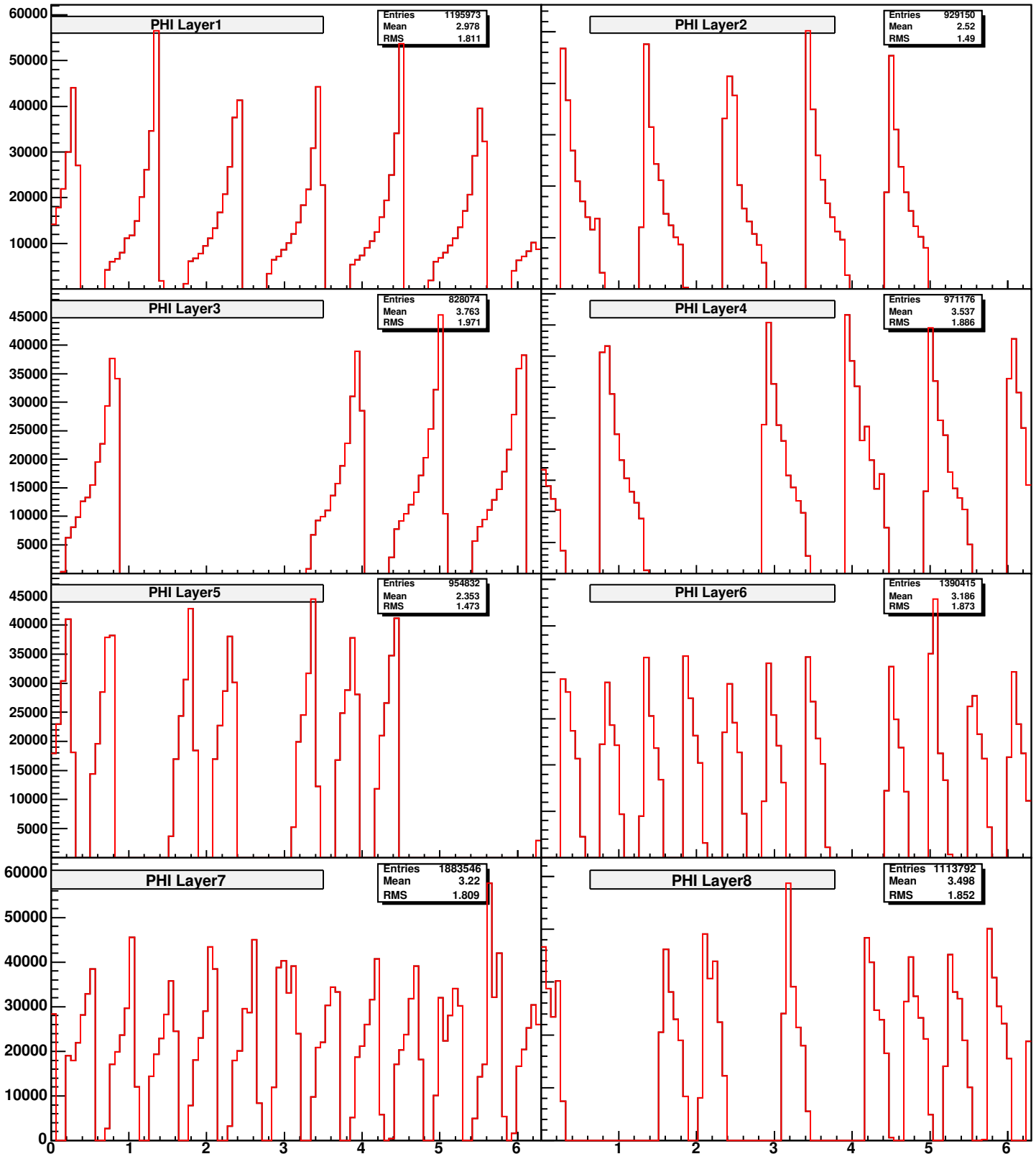


SmtClusters (ClustrBar2)

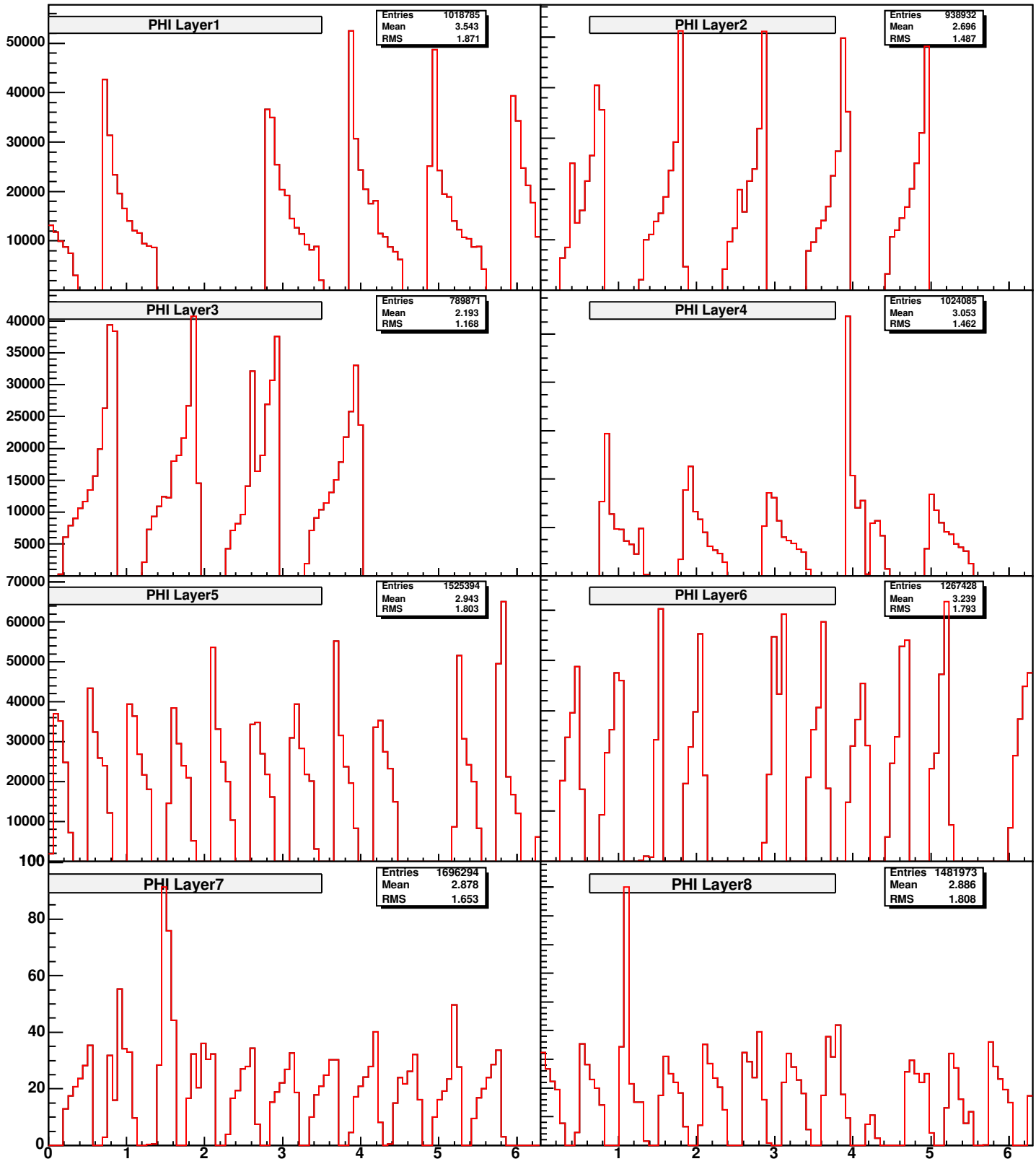

PHI Layer1
Entries 1059169
Mean 2.919
RMS 1.782
PHI Layer2
Entries 1002127
Mean 3.319
RMS 1.949
PHI Layer3
Entries 657682
Mean 2.84
RMS 1.794
PHI Layer4
Entries 1098430
Mean 3.396
RMS 1.709
PHI Layer5
Entries 1342070
Mean 3.021
RMS 1.647
PHI Layer6
Entries 1237289
Mean 3.697
RMS 1.555
PHI Layer7
Entries 1416924
Mean 3.214
RMS 1.819
PHI Layer8
Entries 1425035
Mean 3.312
RMS 2.014
SmtClusters (ClustrBar3)



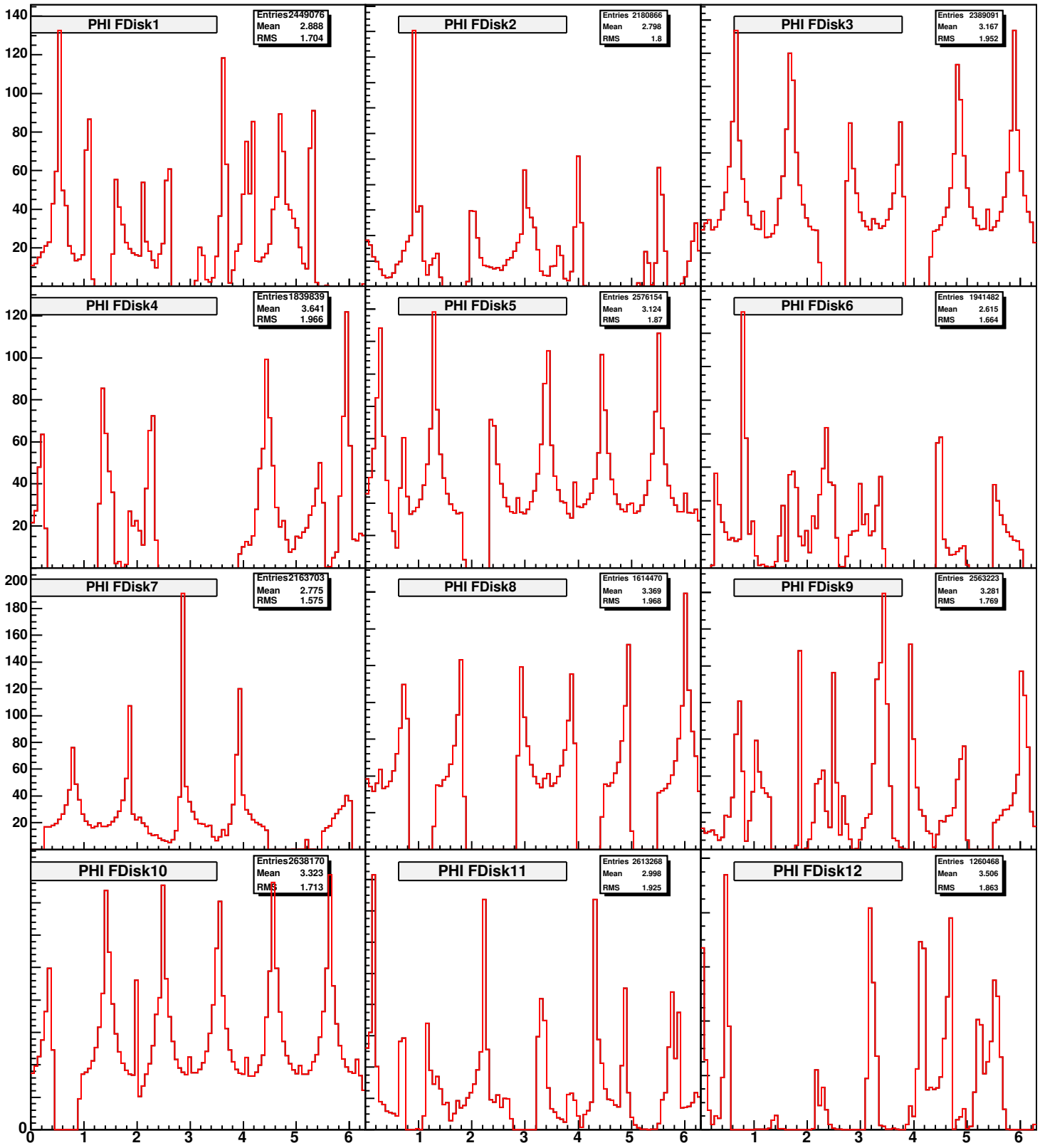
SmtClusters (ClustrBar4)



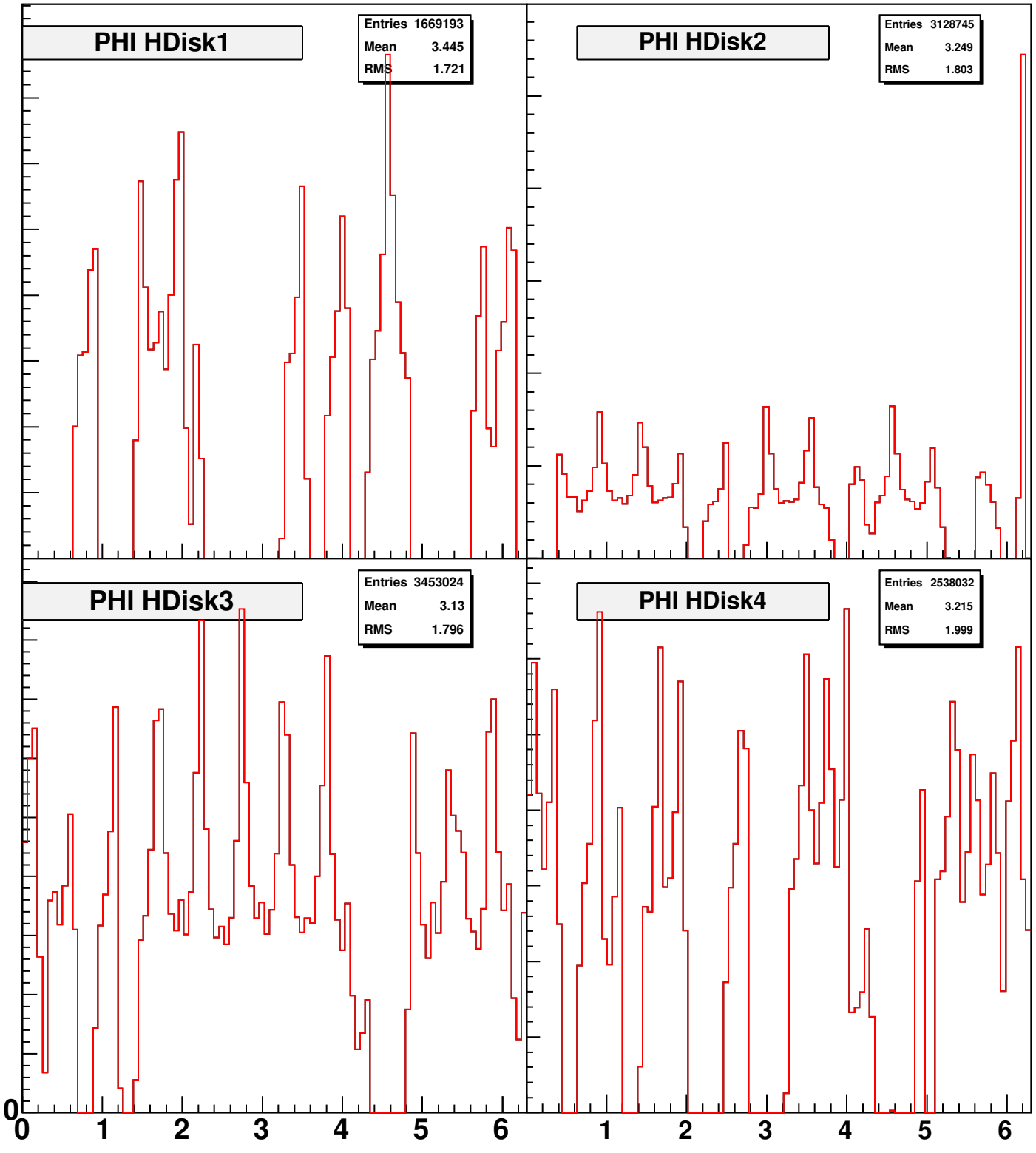
SmtClusters (ClustrBar5)

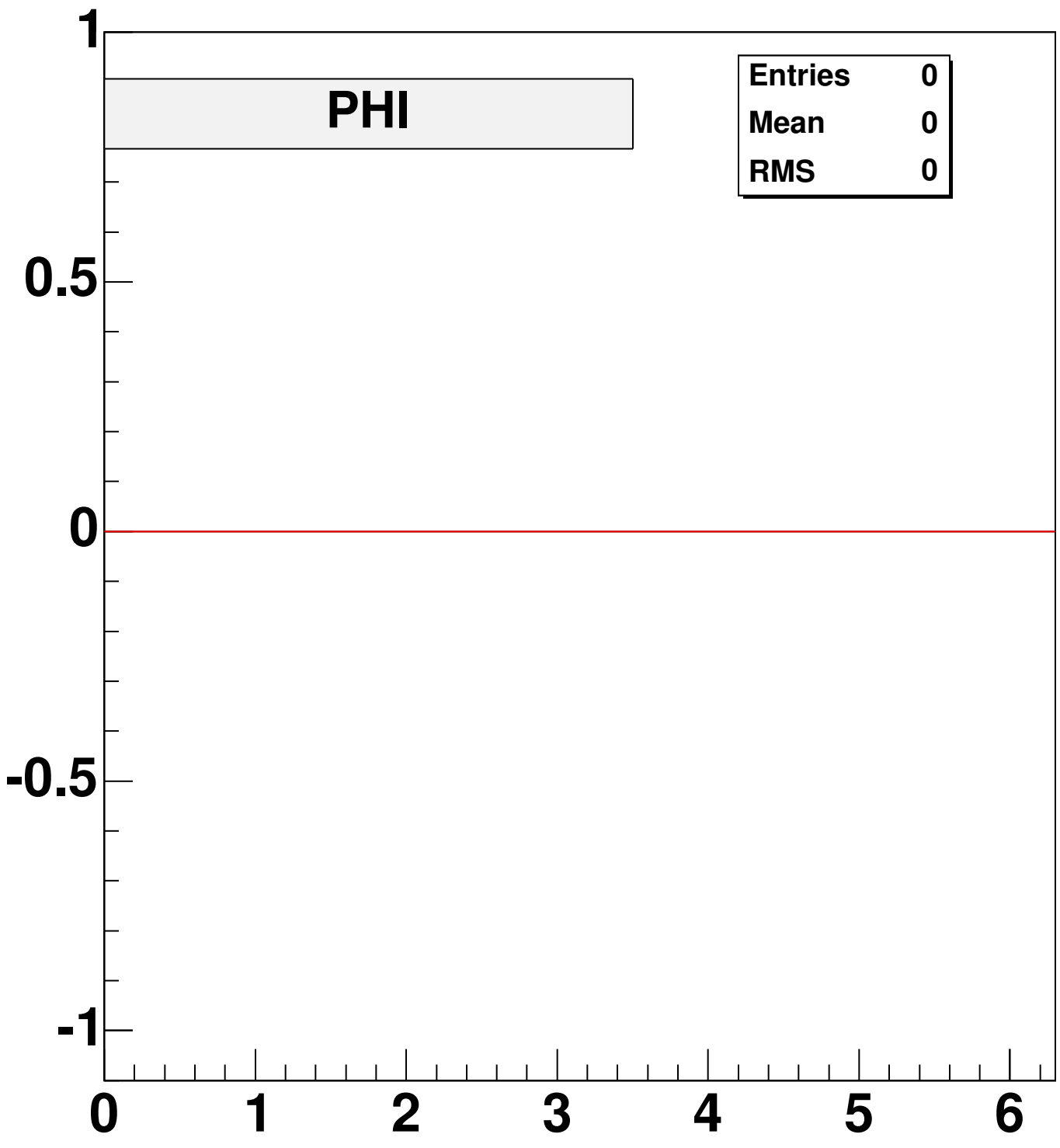


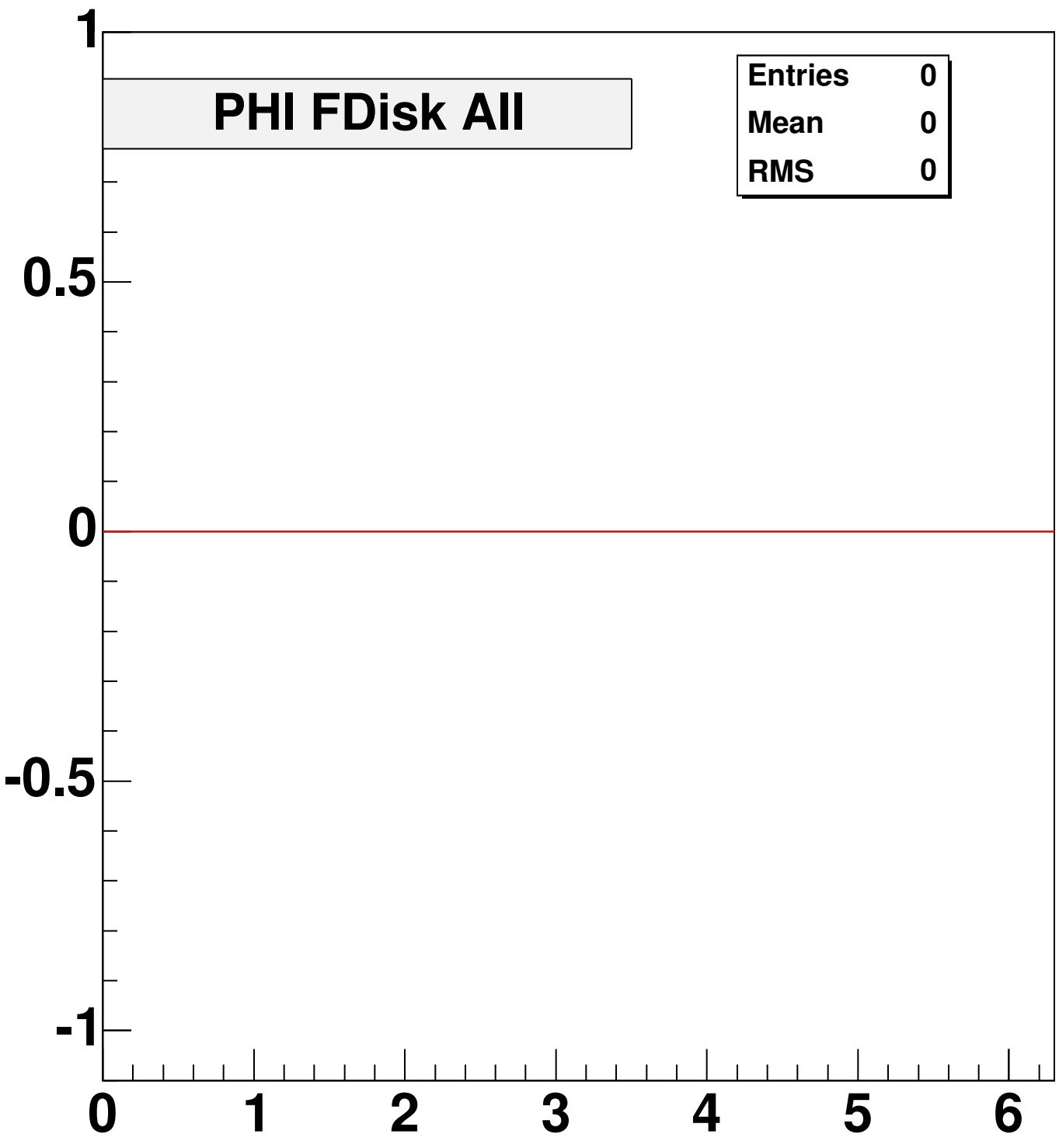
SmtClusters (ClustrBar6)

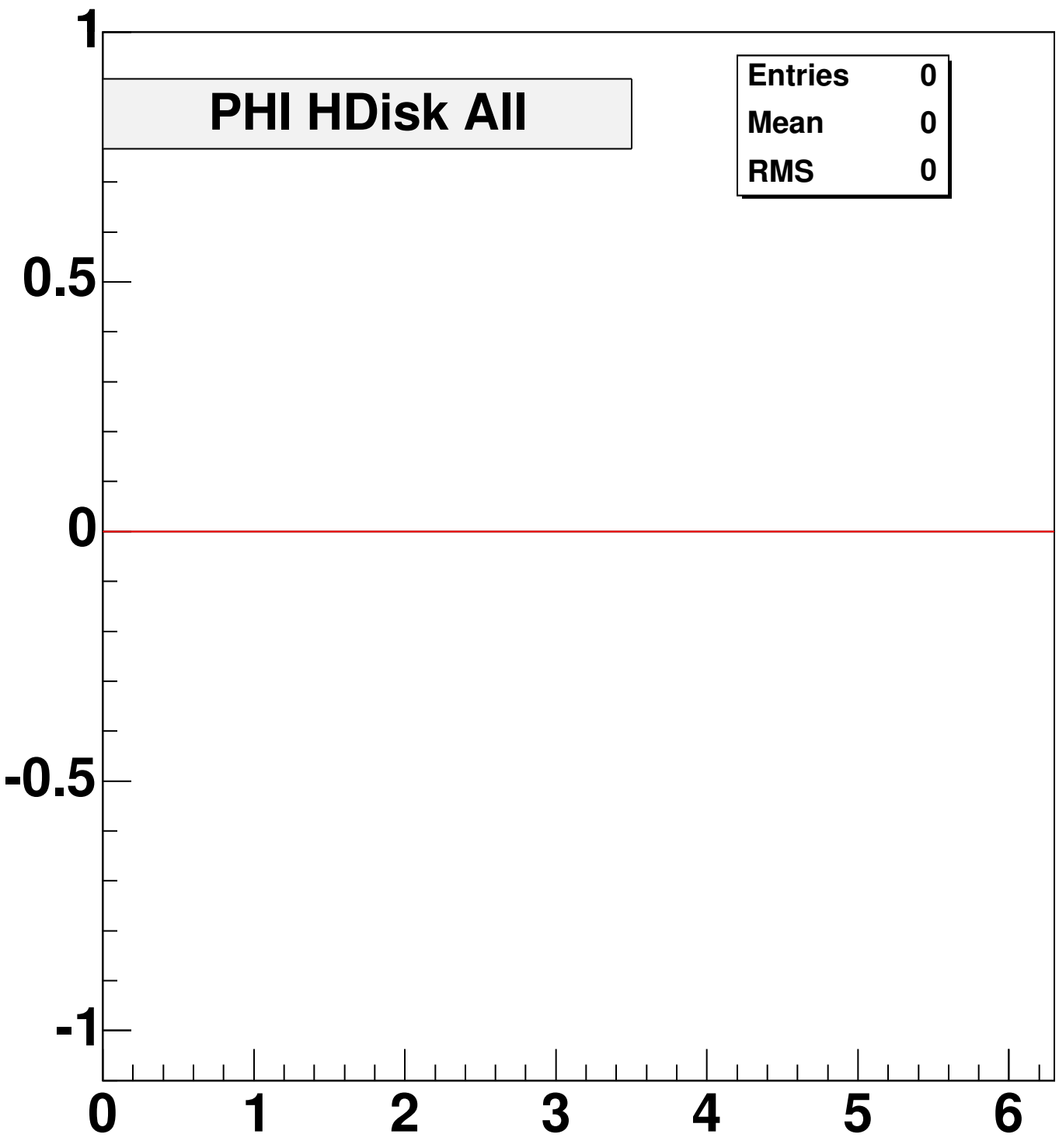


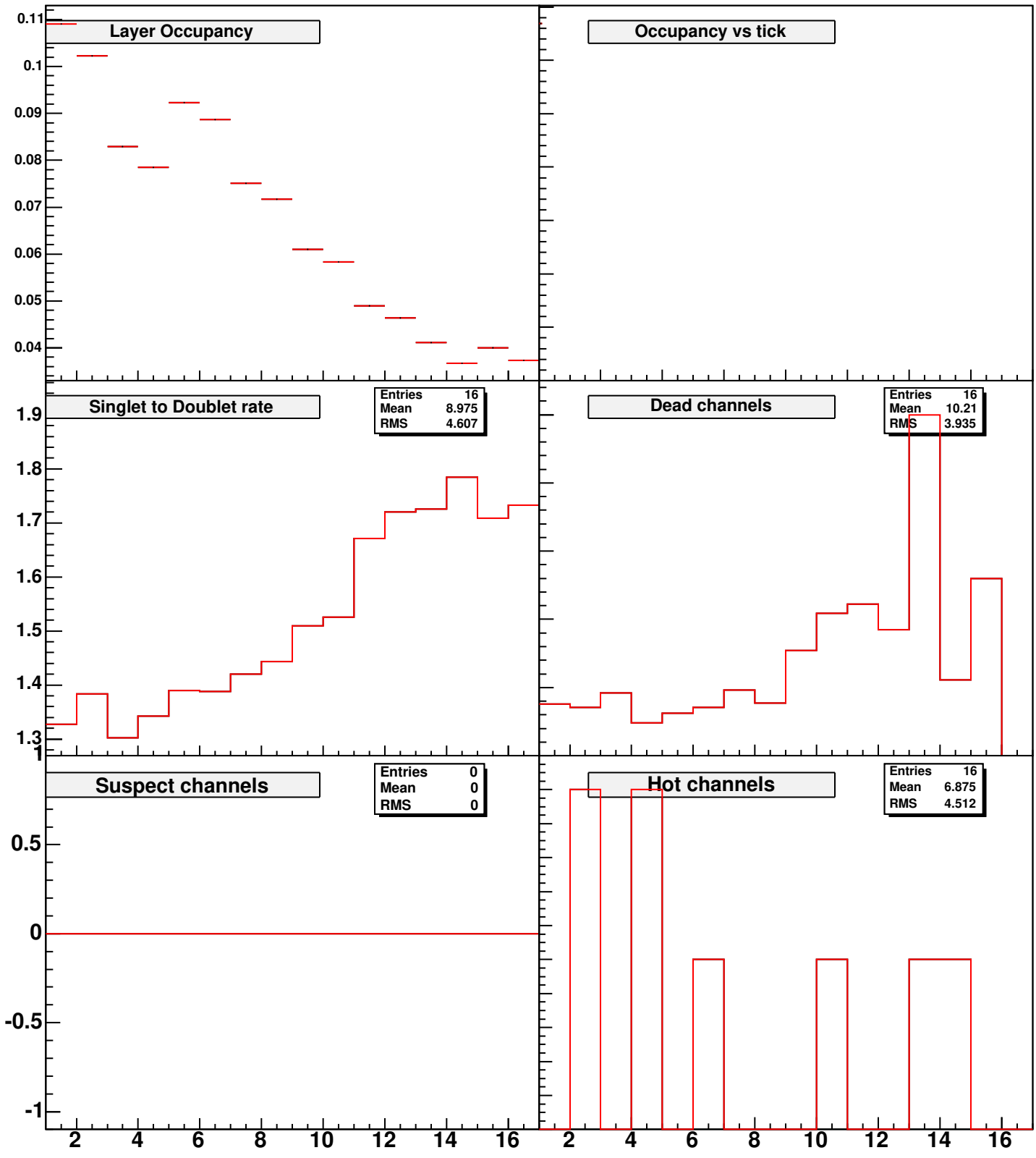
SmtClusters (FDiskClusters)


PHI HDisk1
Entries 1669193
Mean 3.445
RMS 1.721
PHI HDisk2
Entries 3128745
Mean 3.249
RMS 1.803
PHI HDisk3
Entries 3453024
Mean 3.13
RMS 1.796
PHI HDisk4
Entries 2538032
Mean 3.215
RMS 1.999
0
0
1
2
3
4
5
6
1
2
3
4
5
6
SmtClusters (HDiskClusters)

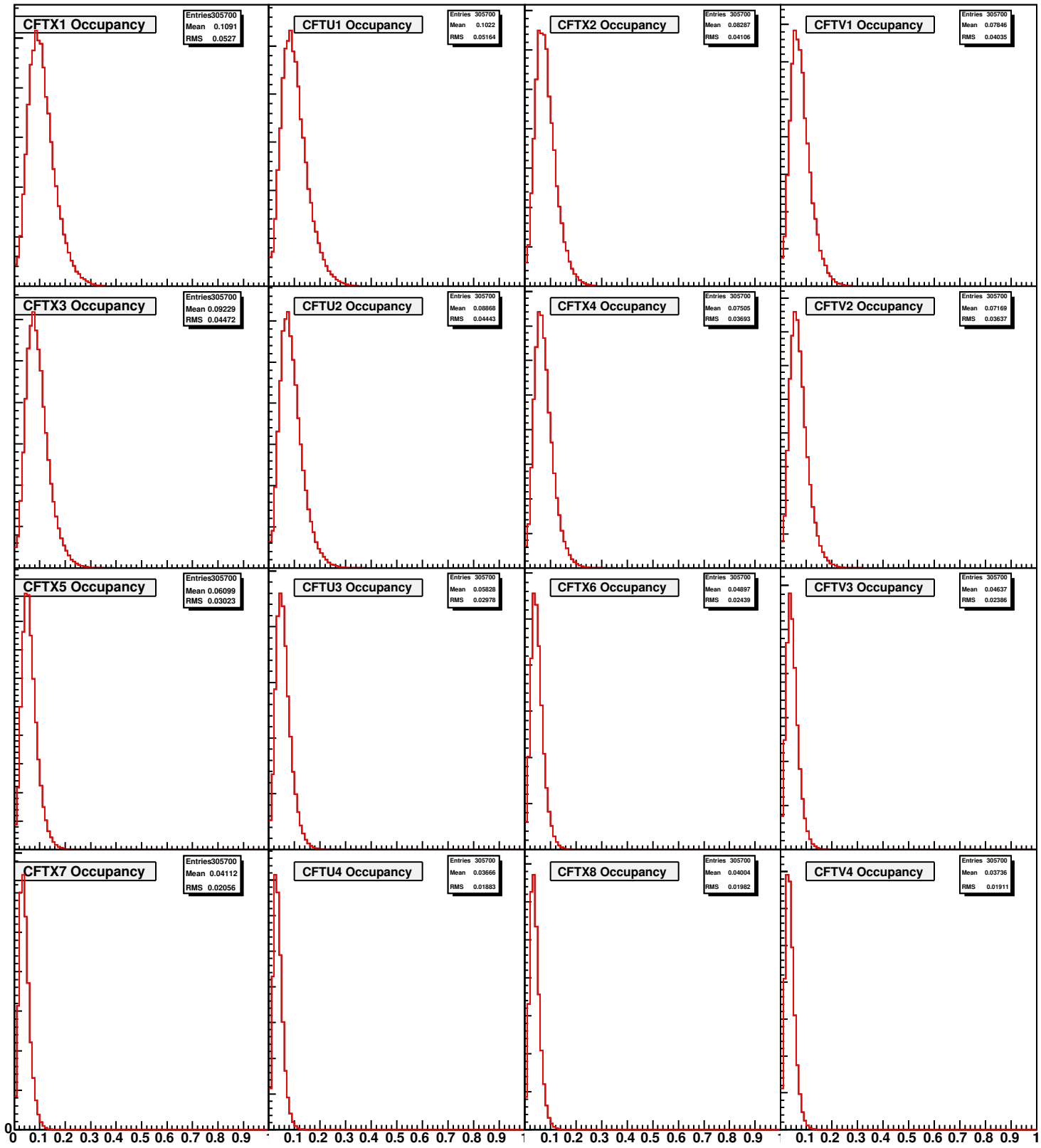

PHI
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)


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)

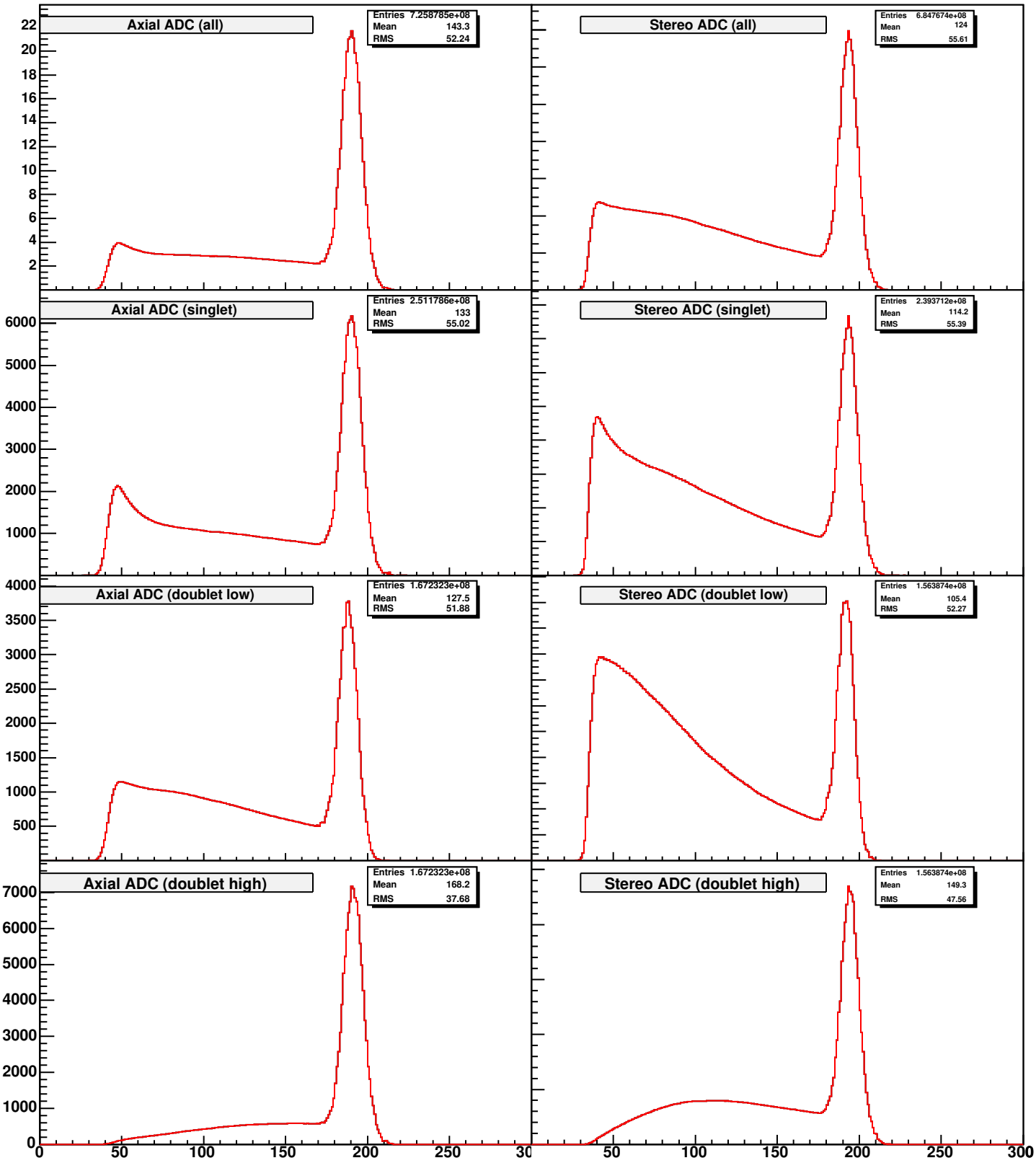

PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allHDiskTClusters)



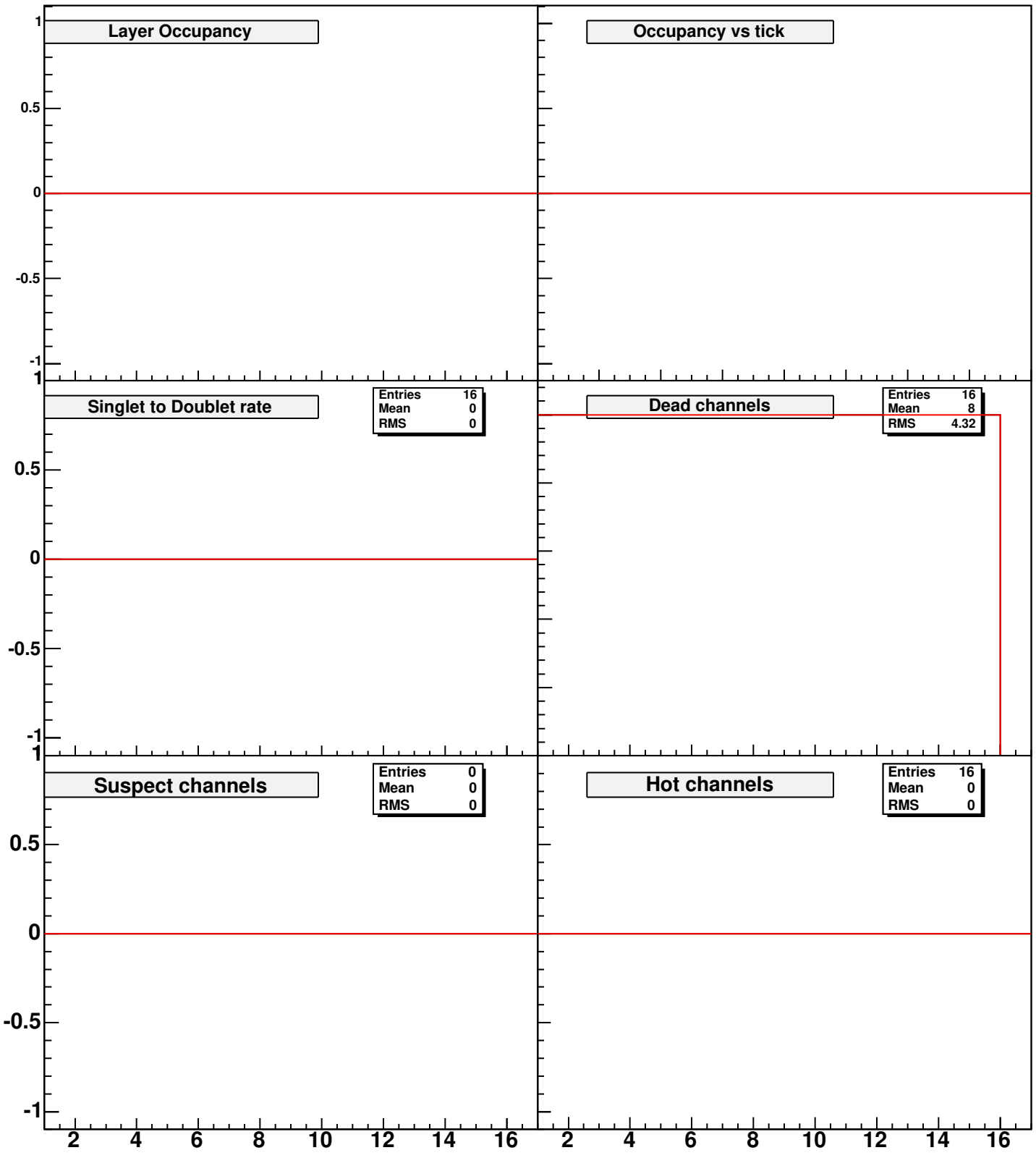
CFT Summary (All Clusters)



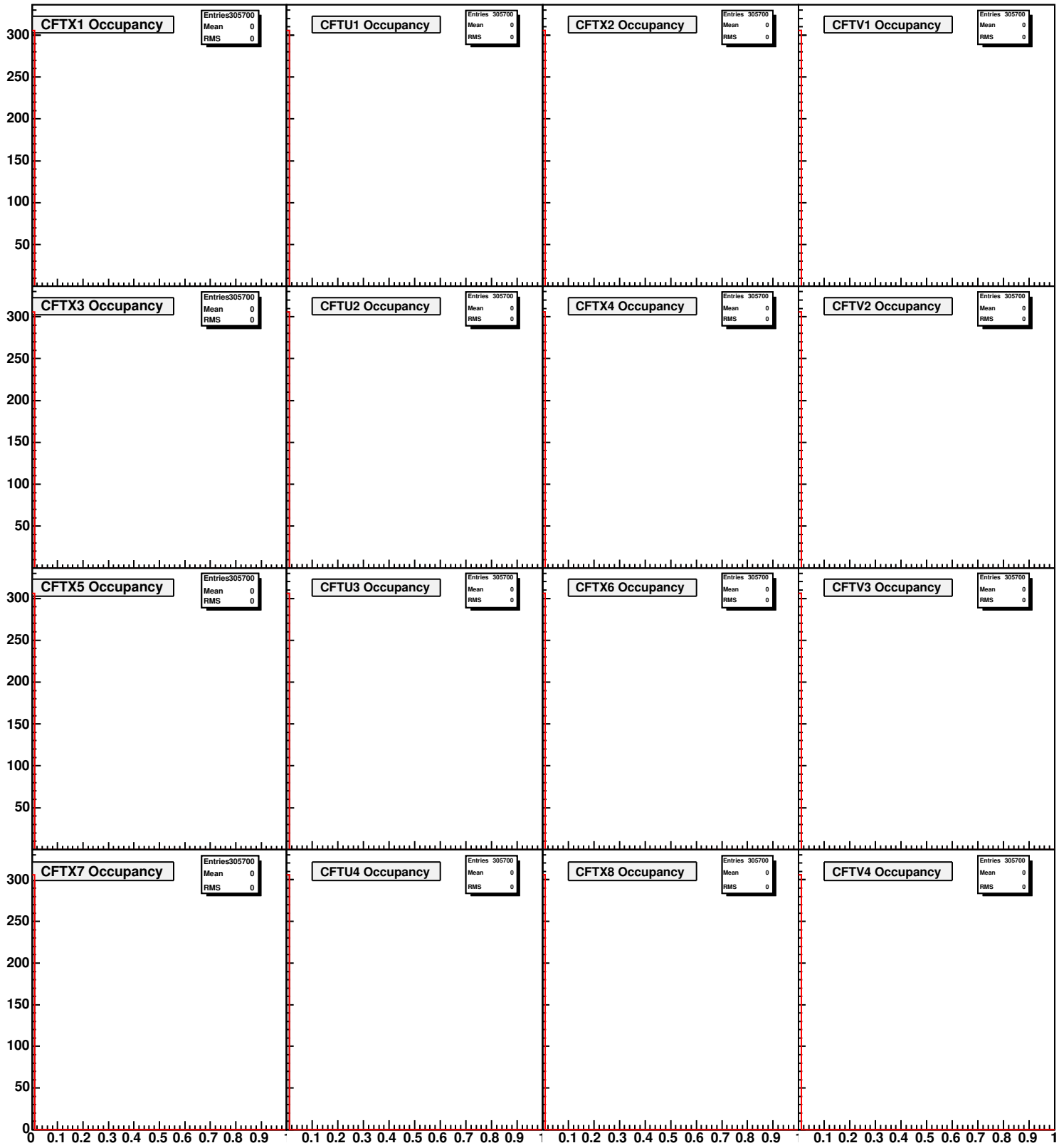
CFT Occupancy (All Clusters)



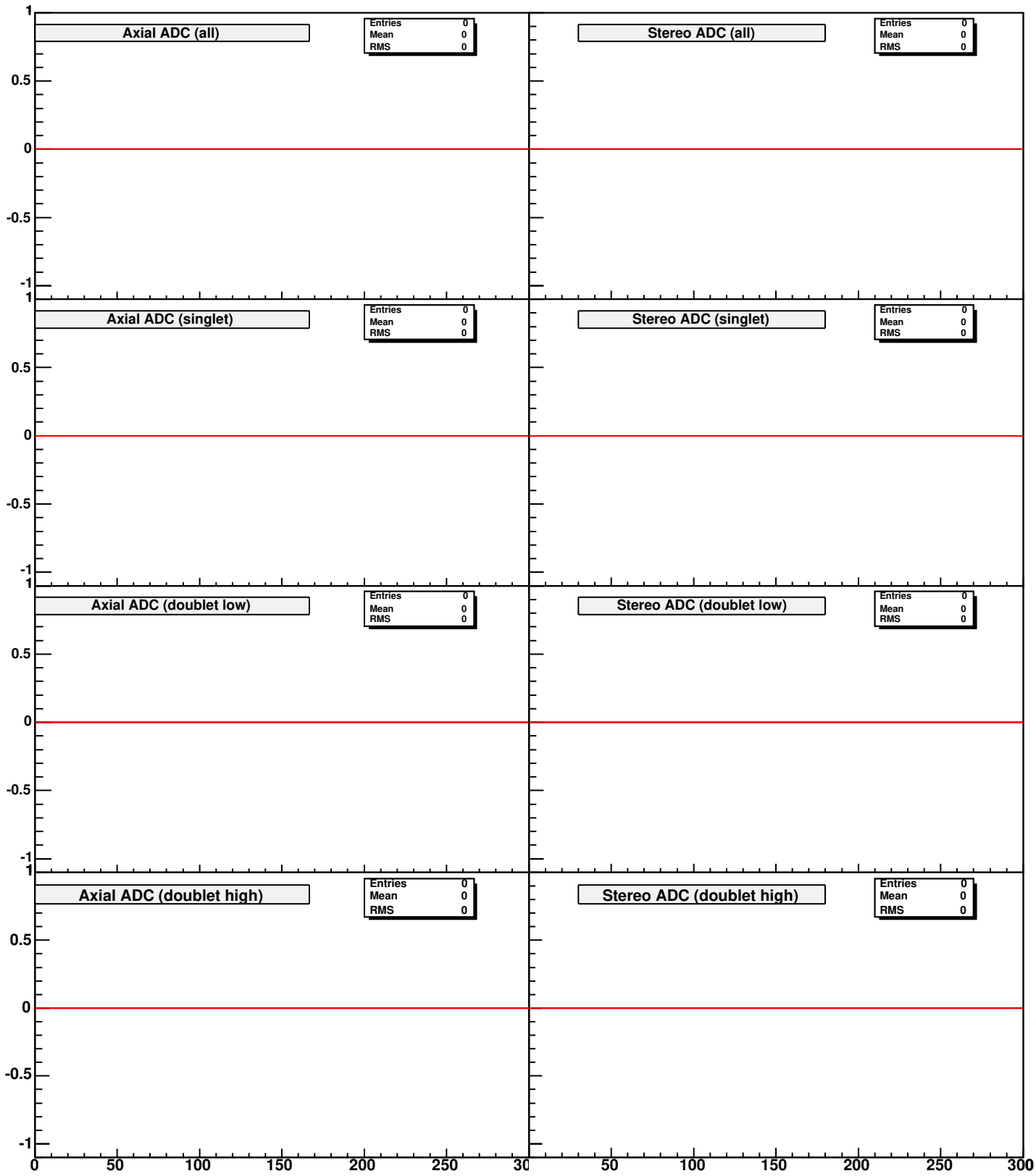
CFT ADC Summary (All Clusters)



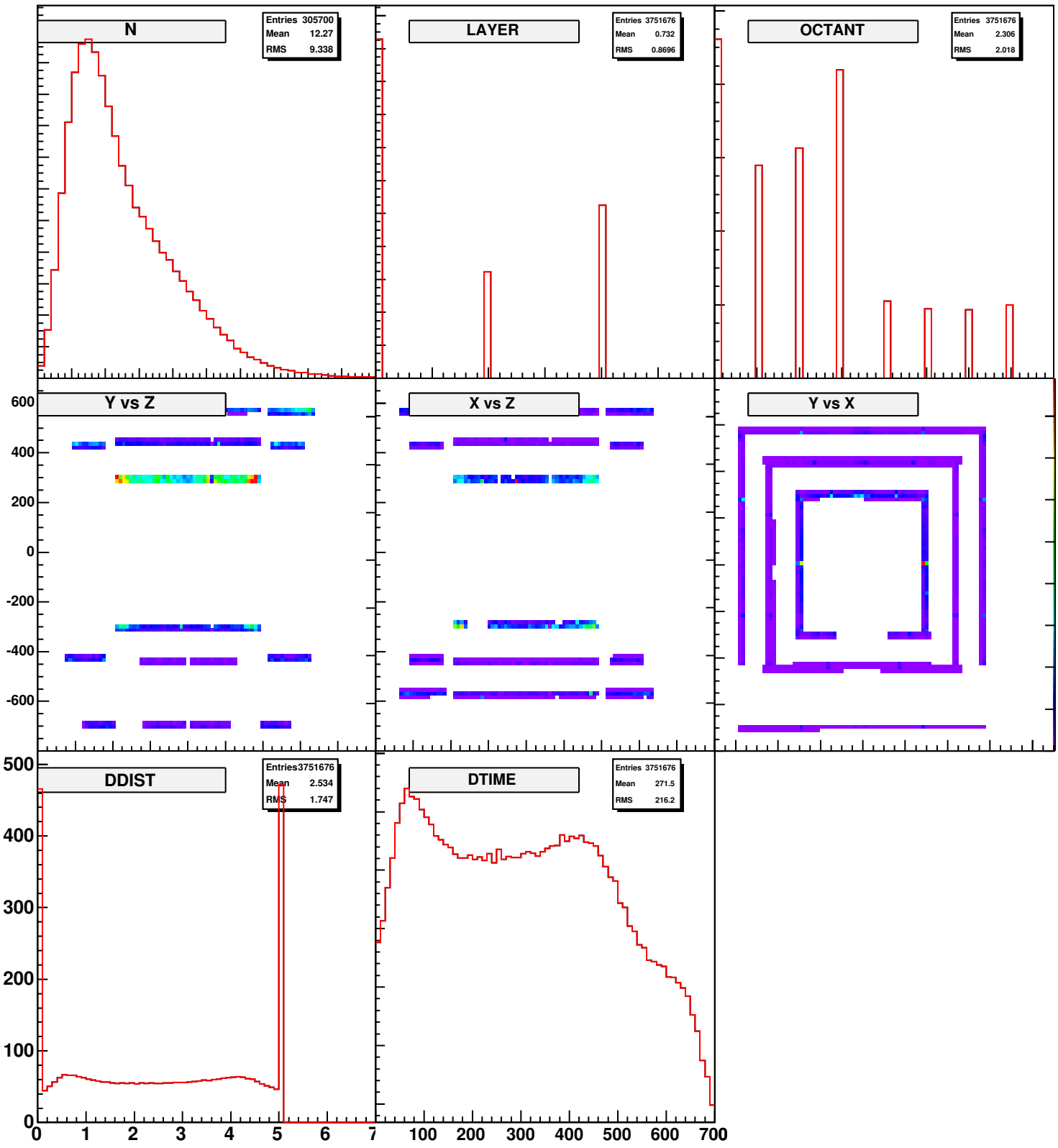
CFT Summary (Clusters on tracks)



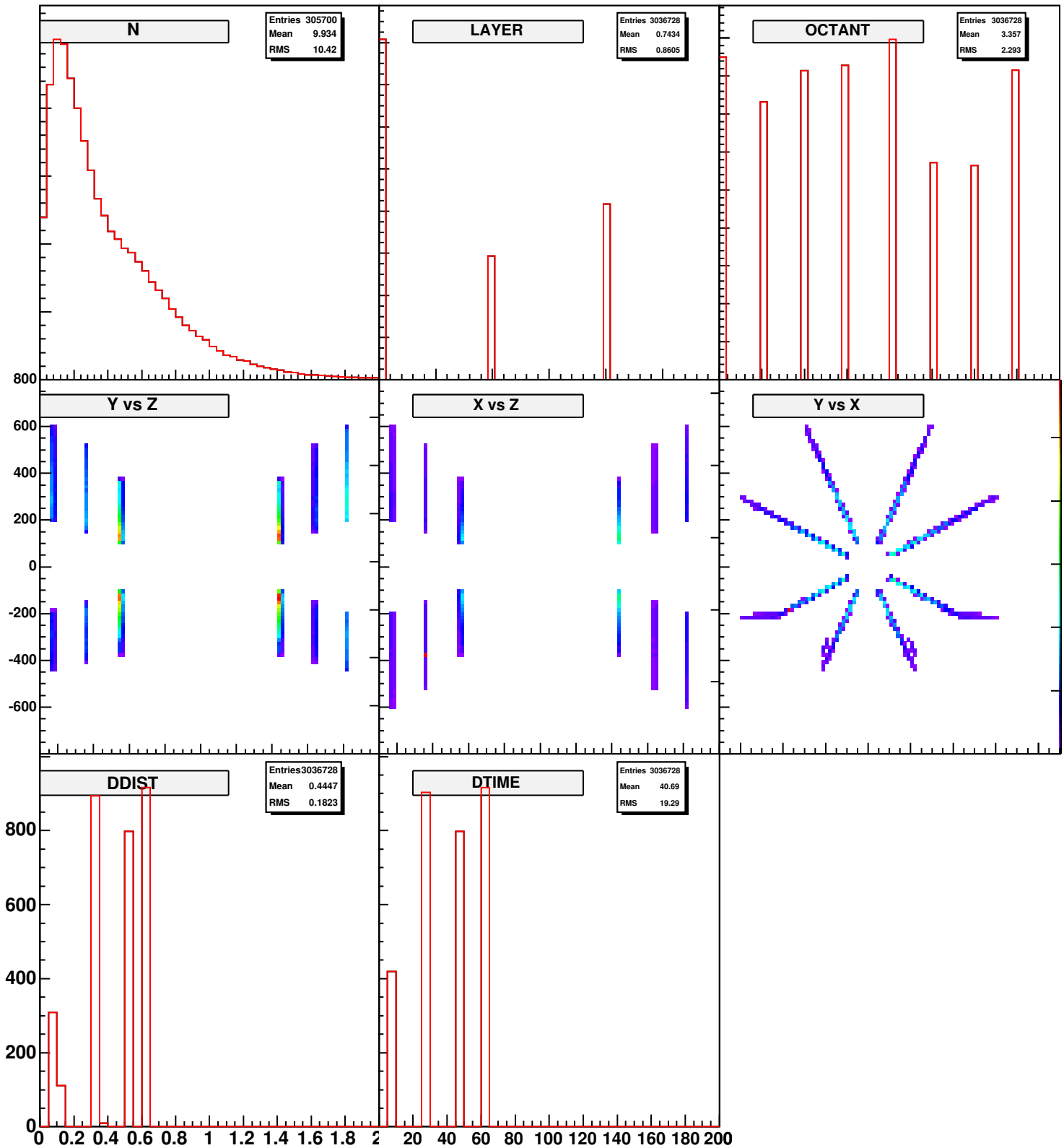
CFT Occupancy (Clusters on tracks)



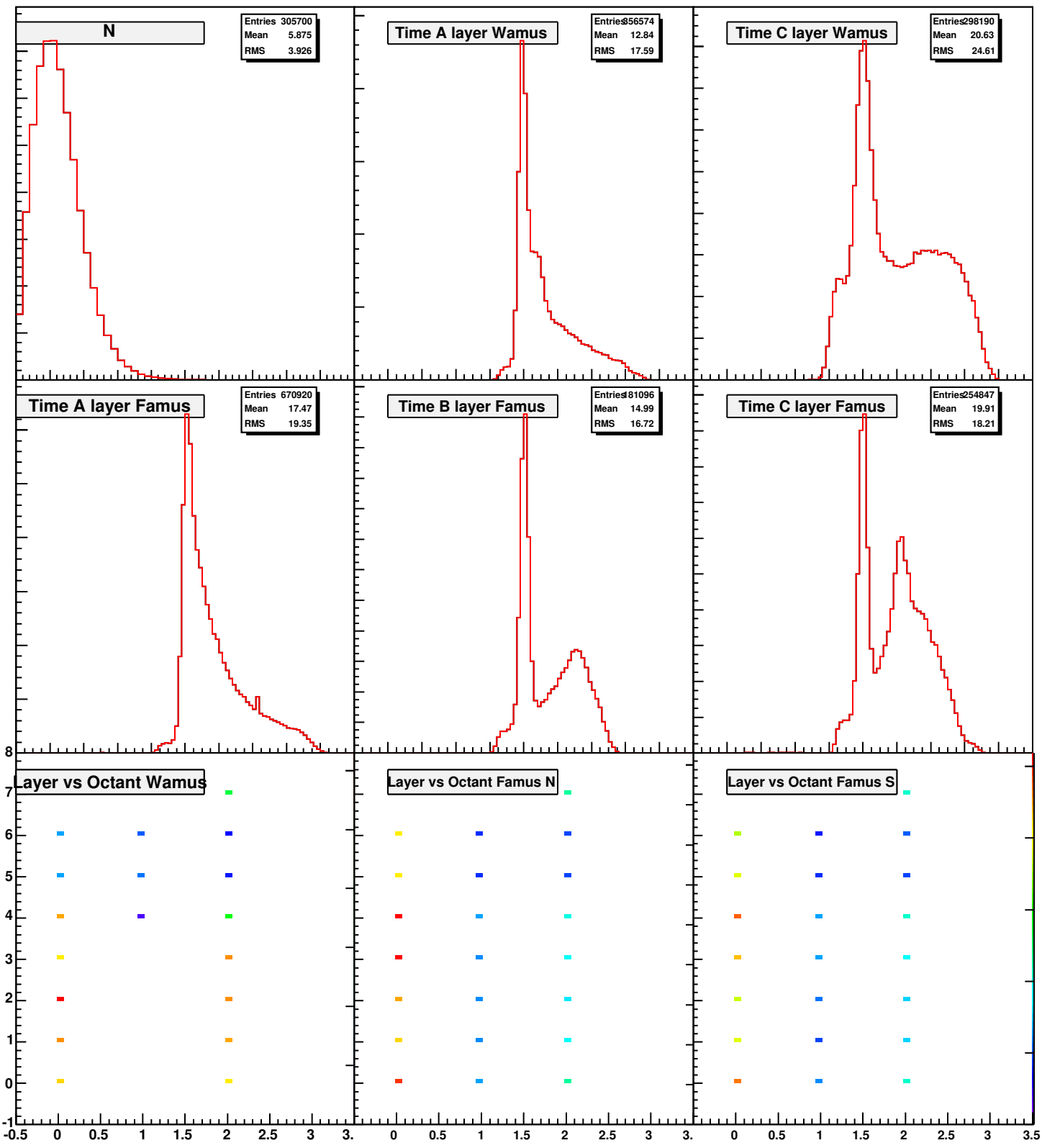
CFT ADC Summary (Clusters on tracks)


N
Entries 305700
Mean 12.27
RMS 9.338
LAYER
Entries 3751676
Mean 0.732
RMS 0.8696
OCTANT
Entries 3751676
Mean 2.306
RMS 2.018
Y vs Z
X vs Z
Y vs X
DDIST
Entries 3751676
Mean 2.534
RMS 1.747
DTIME
Entries 3751676
Mean 271.5
RMS 216.2

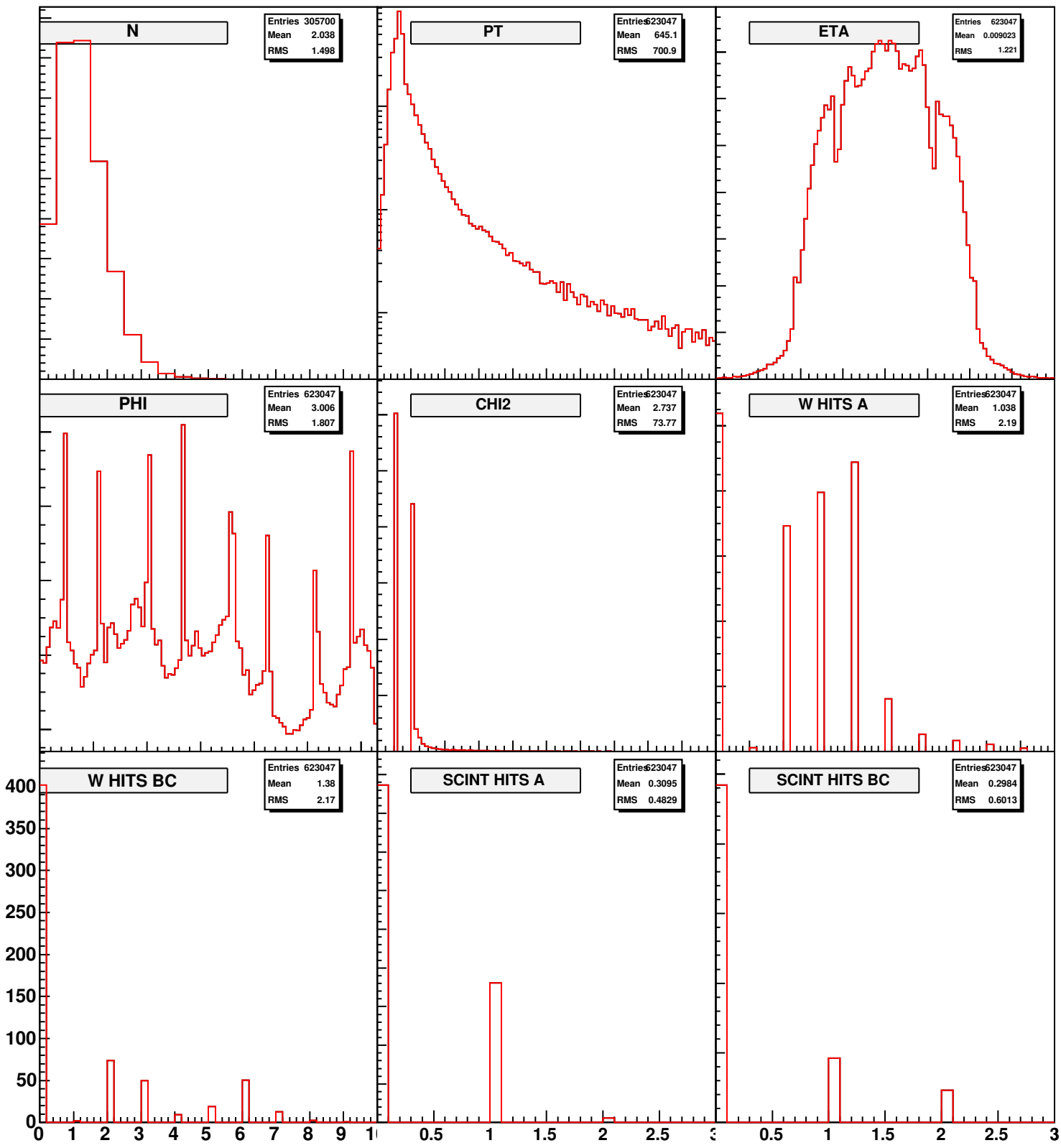
MuonPDT (All)


N
Entries 305700
Mean 9.934
RMS 10.42
LAYER
Entries 3036728
Mean 0.7434
RMS 0.8605
OCTANT
Entries 3036728
Mean 3.357
RMS 2.293
Y vs Z
X vs Z
Y vs X
DDIST
Entries 3036728
Mean 0.4447
RMS 0.1823
DTIME
Entries 3036728
Mean 40.69
RMS 19.29
800
600
400
200
0
-200
-400
-600
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

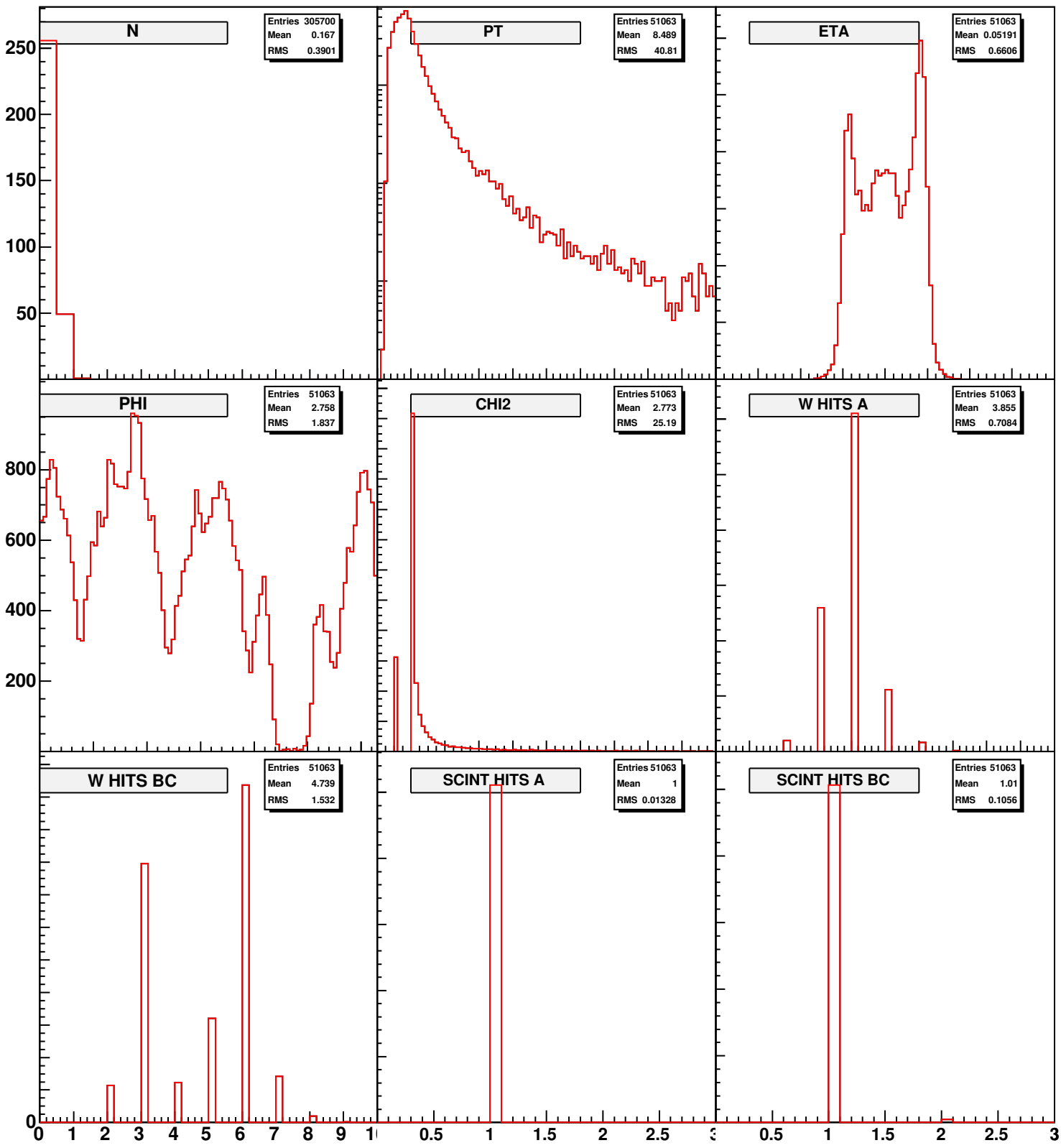
MuonMDT (All)


N
Entries 305700
Mean 5.875
RMS 3.926
Time A layer Wamus
Entries 356574
Mean 12.84
RMS 17.59
Time C layer Wamus
Entries 298190
Mean 20.63
RMS 24.61
Time A layer Famus
Entries 670920
Mean 17.47
RMS 19.35
Time B layer Famus
Entries 181096
Mean 14.99
RMS 16.72
Time C layer Famus
Entries 254847
Mean 19.91
RMS 18.21
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

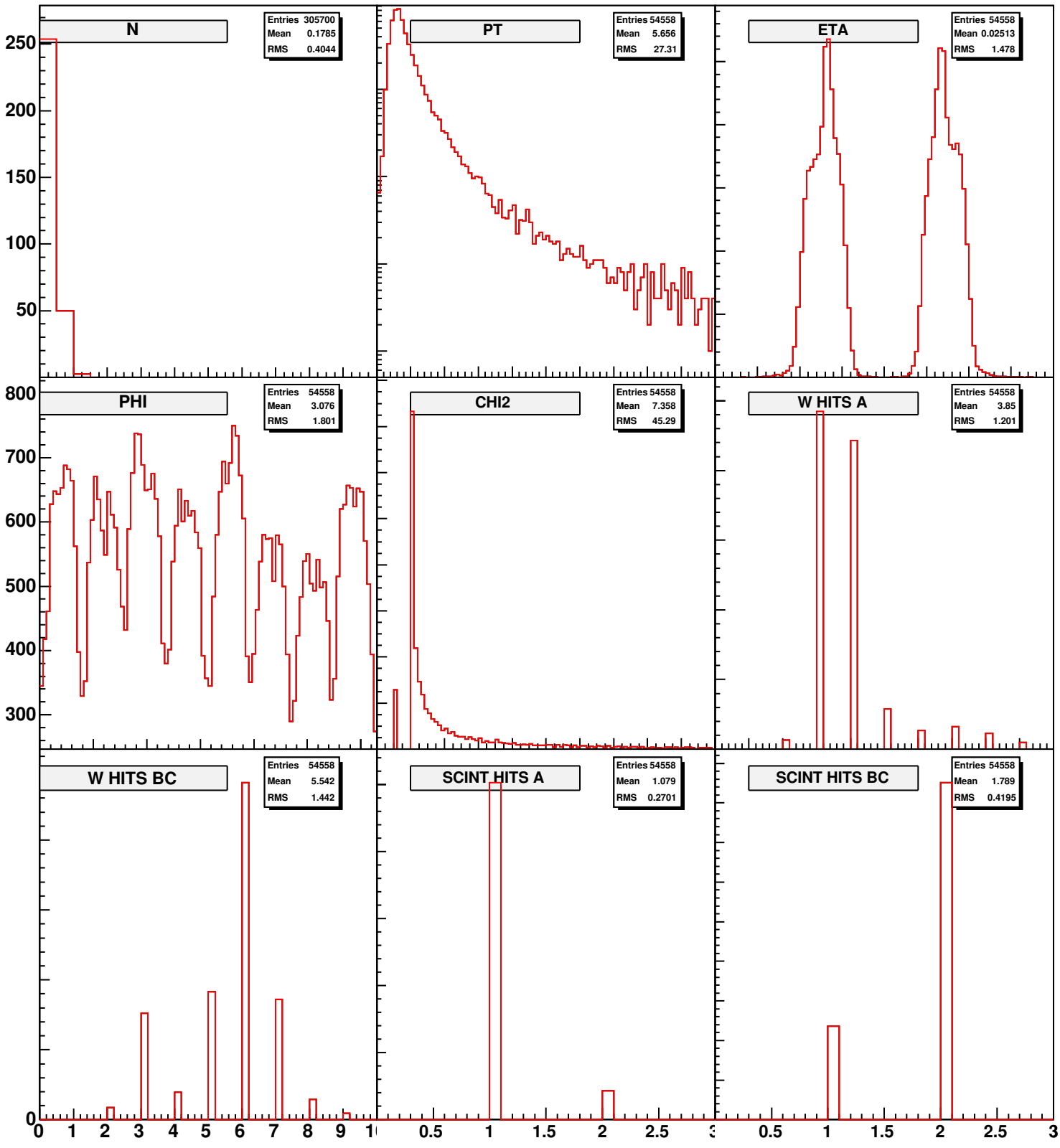
MuonMSC (All)



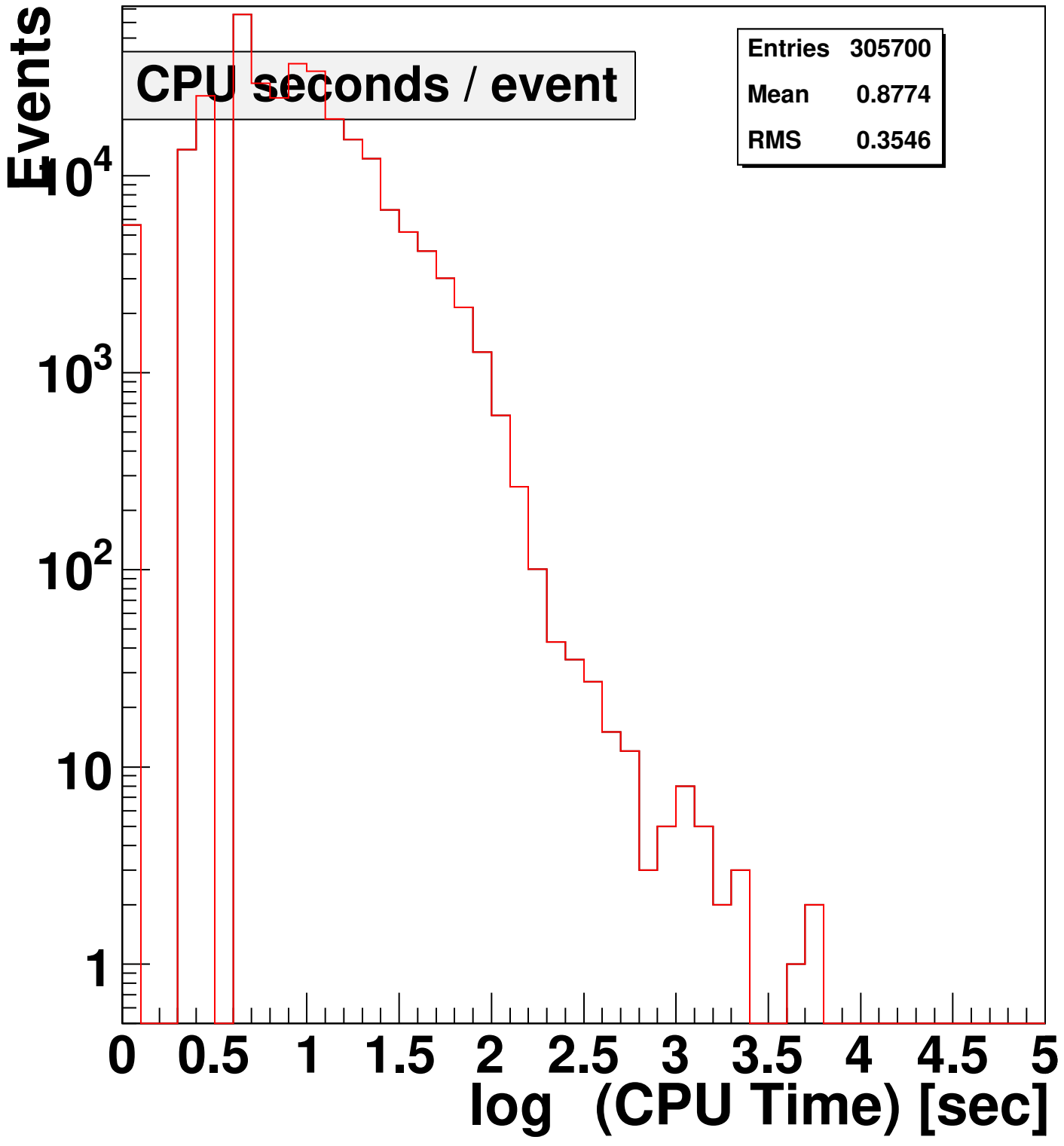
Muon Local Tracks (All)



Muon Local Tracks (MediumWamus)



Muon Local Tracks (MediumFamus)



RECO Performance (Timing)