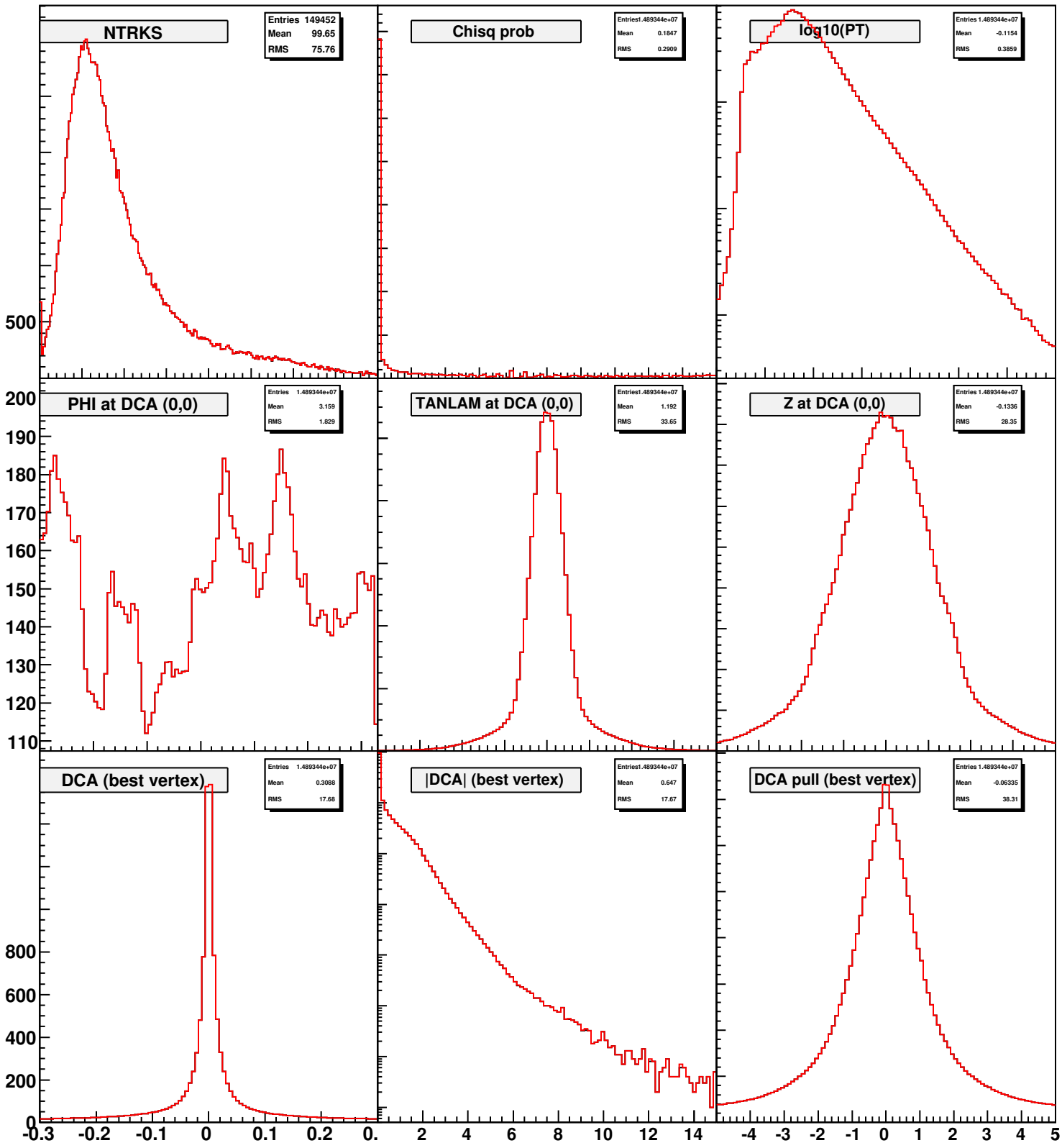
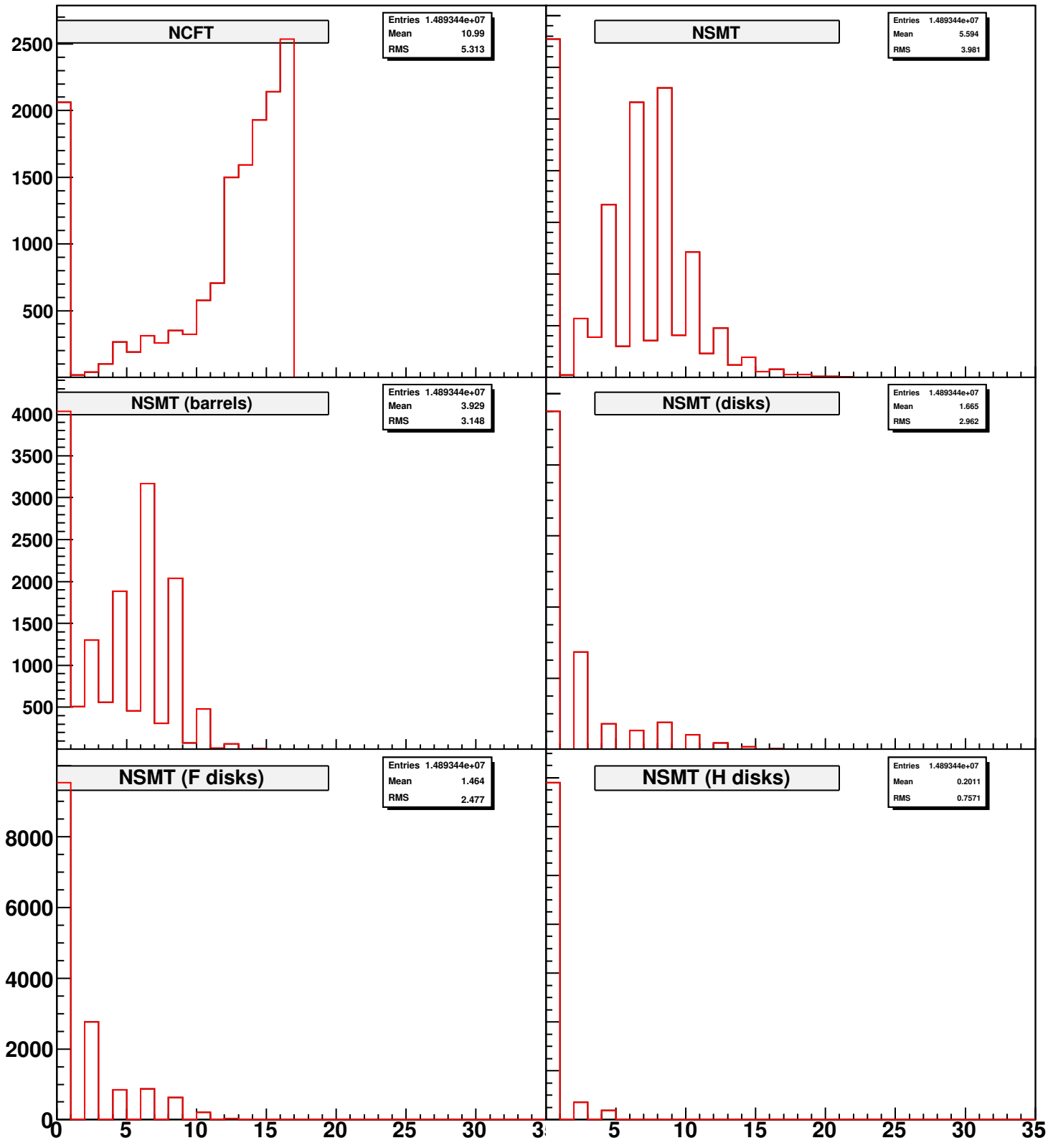
dayset-2006-01-13-all_1-213828-0_certification_2006060506
dayset-2006-01-13-all_1-213828-0_certification_p170906_re

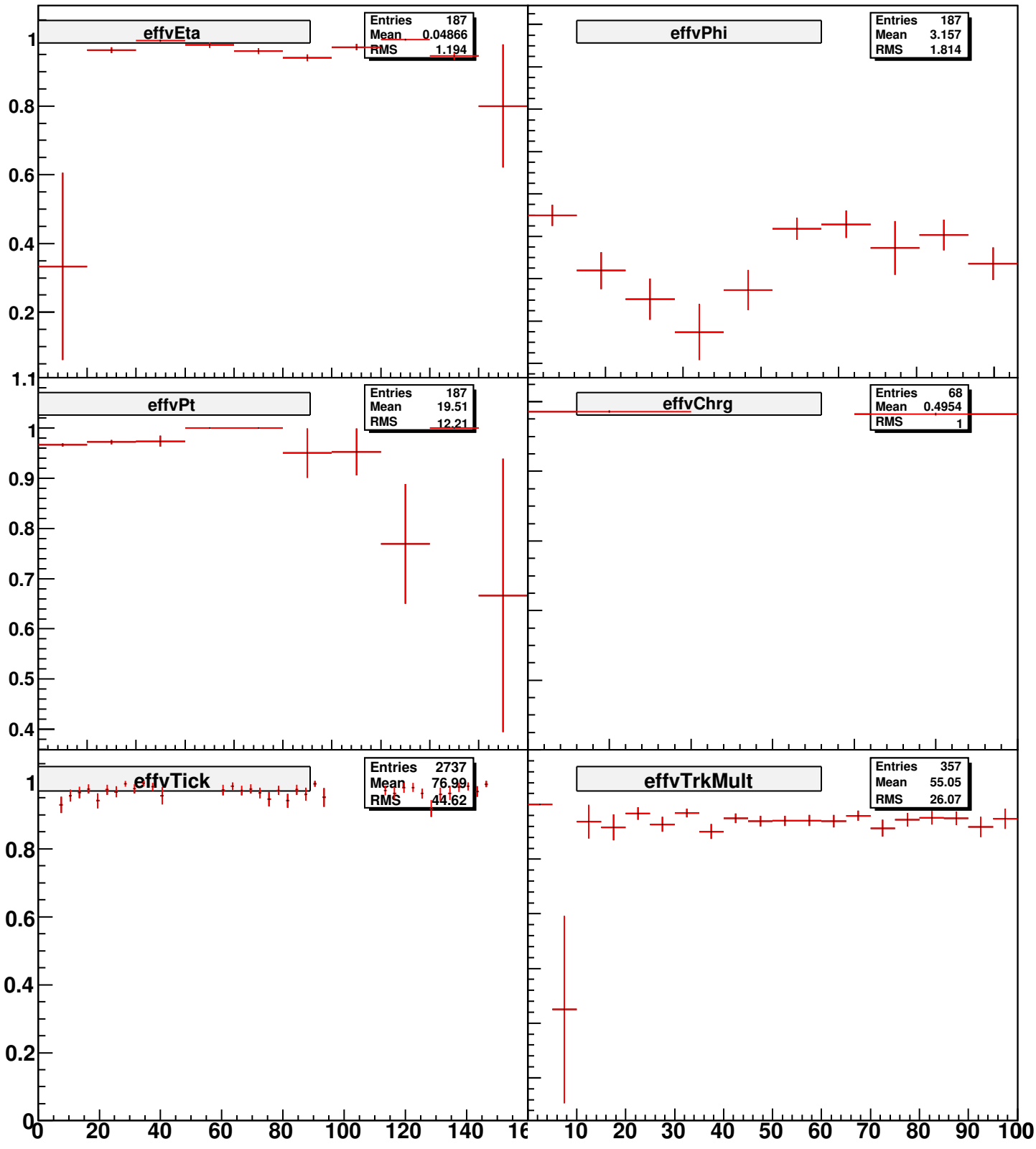
Page 2: Tracks (All)
Page 3: Tracks Hits (All)
Page 4: Tracking (Efficiency - Isolated)
Page 5: Tracking (Efficiency - InJets)
Page 6: Vertices (Primary - all candidates)
Page 7: Tracking (Primary - best)
Page 8: V0 (All)
Page 9: Electrons (SCONE All)
Page 10: Electrons (SCONE Tight)
Page 11: Muons (All)
Page 12: Muons (Matched)
Page 13: Muons (Astub)
Page 14: Muons (BCstub)
Page 15: Muons (Unmateched)
Page 16: Met (No cuts)
Page 17: Jets (Cone R 0.7 (no cuts))
Page 18: Jets (Cone R 0.7 (standard cuts))
Page 19: Jets (Cone R 0.7 (standard cuts, MET>30))
Page 20: Detector Occupancy (Detector)
Page 21: Detector Occupancy (Detector vs Detector)
Page 22: Calorimeter (All cells)
Page 23: Calorimeter (All CC cells)
Page 24: Calorimeter (All EC cells)
Page 25: Cal Objects with MET>30 (All cells)
Page 26: Calorimeter Event Quality (All cells)
Page 27: CPS Hit Strips (All Clusters)
Page 28: CPS Clusters (All Clusters)
Page 29: SmtClusters (allBarClusters)
Page 30: SmtClusters (allFDiskClusters)
Page 31: SmtClusters (allHDiskClusters)
Page 32: SmtClusters (ClustrBar1)
Page 33: SmtClusters (ClustrBar2)
Page 34: SmtClusters (ClustrBar3)
Page 35: SmtClusters (ClustrBar4)
Page 36: SmtClusters (ClustrBar5)
Page 37: SmtClusters (ClustrBar6)
Page 38: SmtClusters (FDiskClusters)
Page 39: SmtClusters (HDiskClusters)
Page 40: CFT Summary (All Clusters)
Page 41: CFT Occupancy (All Clusters)
Page 42: CFT ADC Summary (All Clusters)
Page 43: MuonPDT (All)
Page 44: MuonMDT (All)
Page 45: MuonMSC (All)
Page 46: Muon Local Tracks (All)
Page 47: Muon Local Tracks (MediumWamus)
Page 48: Muon Local Tracks (MediumFamus)
Page 49: FPS Trigger Sector Occupancy

RecoCert_Plots (Index)

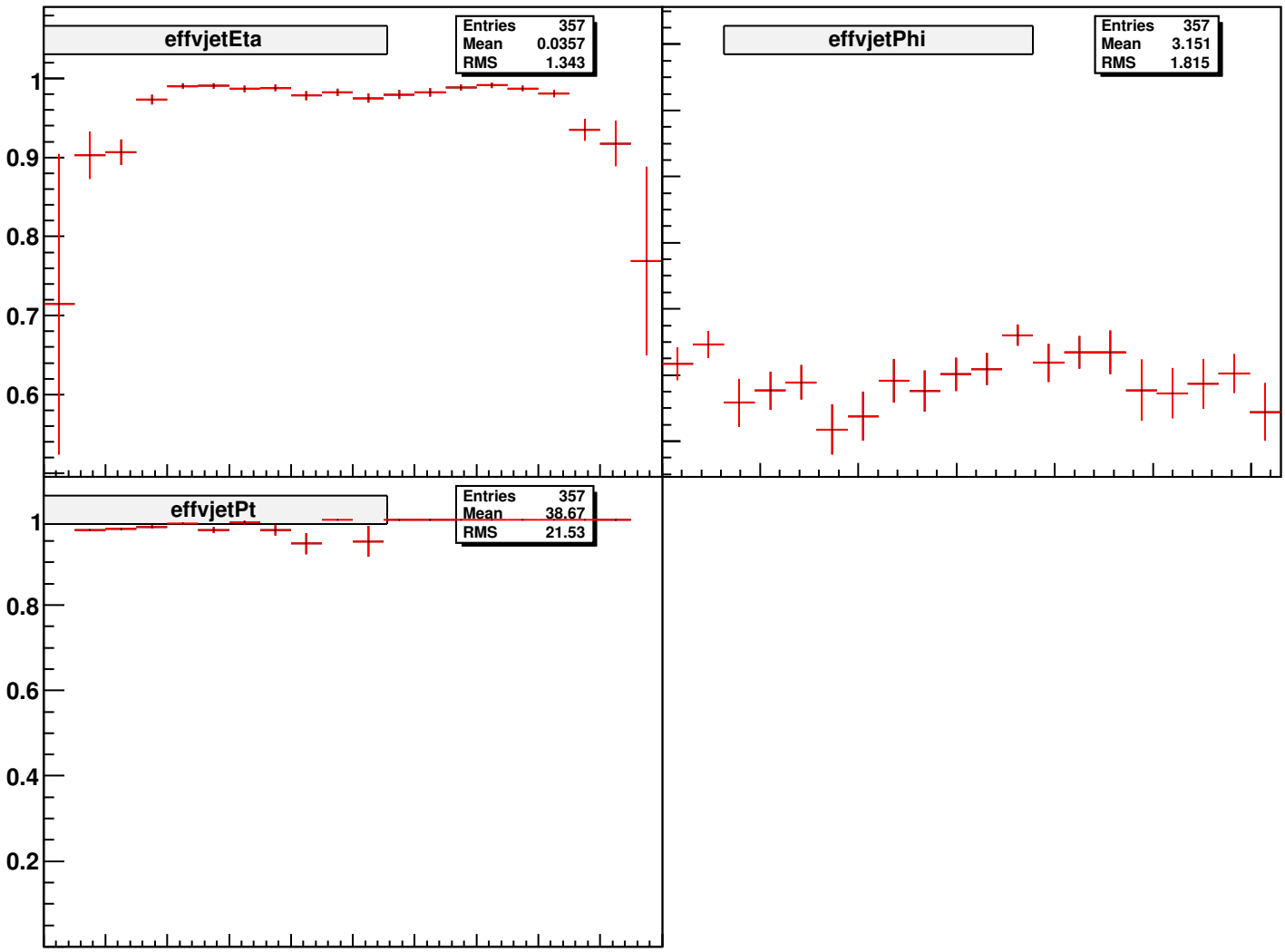

NTRKS
Entries 149452
Mean 99.65
RMS 75.76
Chisq prob
Entries1.489344e+07
Mean 0.1847
RMS 0.2909
log10(PT)
Entries 1.489344e+07
Mean -0.1154
RMS 0.3859
PHI at DCA (0,0)
Entries 1.489344e+07
Mean 3.159
RMS 1.829
TANLAM at DCA (0,0)
Entries1.489344e+07
Mean 1.192
RMS 33.65
Z at DCA (0,0)
Entries 1.489344e+07
Mean -0.1336
RMS 28.35
DCA (best vertex)
Entries 1.489344e+07
Mean 0.3088
RMS 17.68
|DCA| (best vertex)
Entries1.489344e+07
Mean 0.647
RMS 17.67
DCA pull (best vertex)
Entries 1.489344e+07
Mean -0.06335
RMS 38.31
500
200
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)

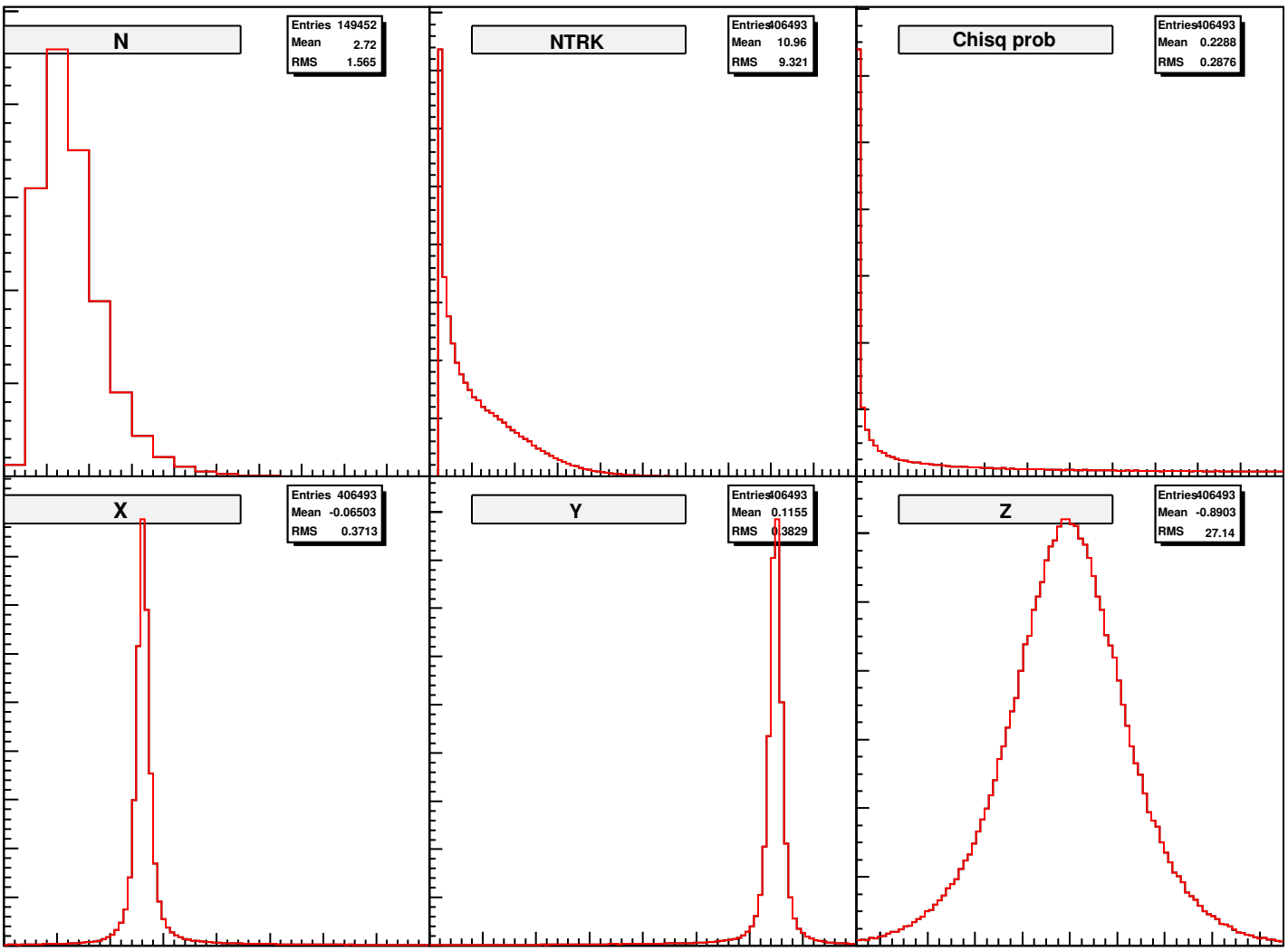

NCFT
Entries 1.489344e+07
Mean 10.99
RMS 5.313
NSMT
Entries 1.489344e+07
Mean 5.594
RMS 3.981
NSMT (barrels)
Entries 1.489344e+07
Mean 3.929
RMS 3.148
NSMT (disks)
Entries 1.489344e+07
Mean 1.665
RMS 2.962
NSMT (F disks)
Entries 1.489344e+07
Mean 1.464
RMS 2.477
NSMT (H disks)
Entries 1.489344e+07
Mean 0.2011
RMS 0.7571
Track Hits (All)



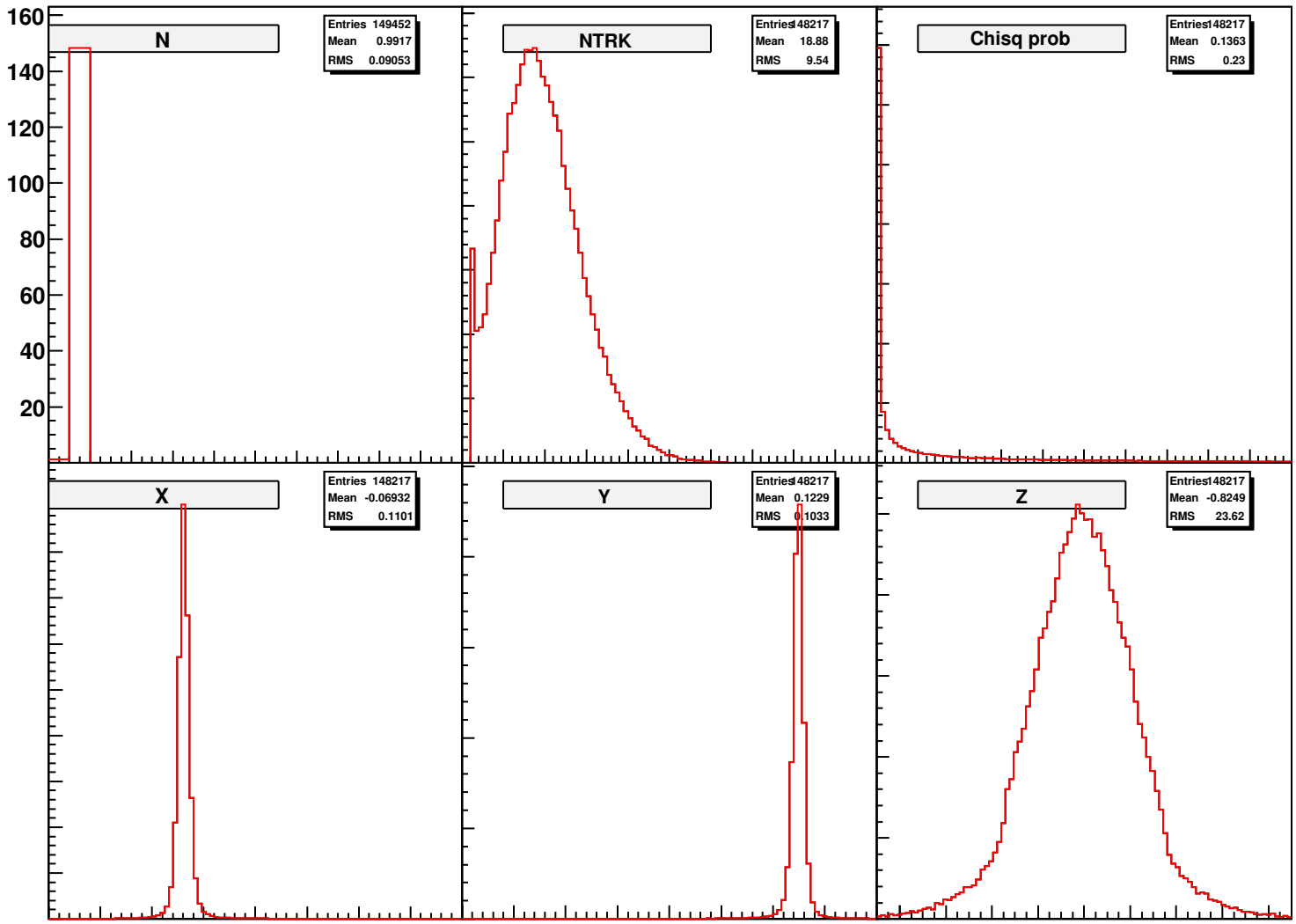
Tracking (Efficiency-Isolated)



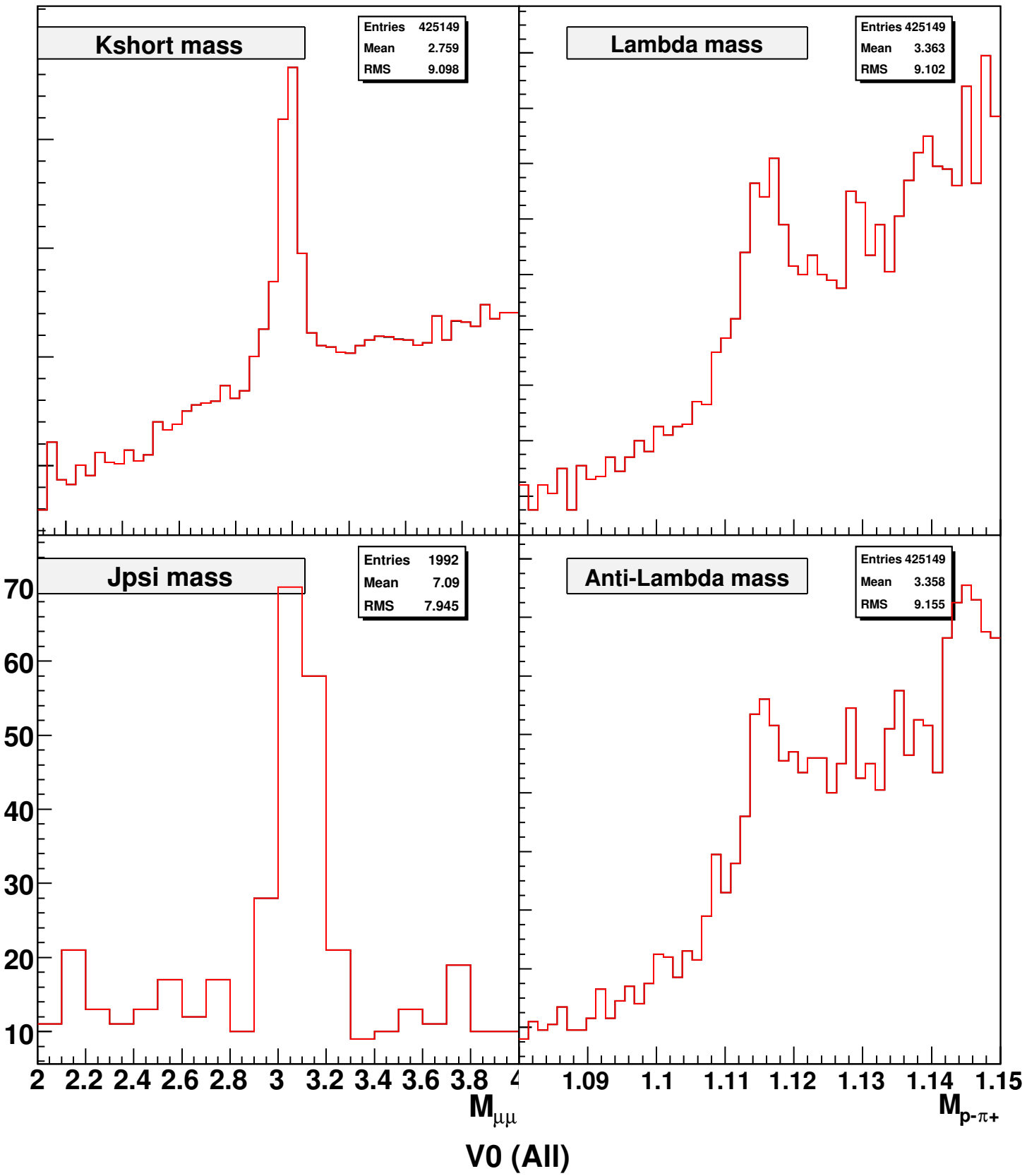
Tracking (Efficiency-InJets)

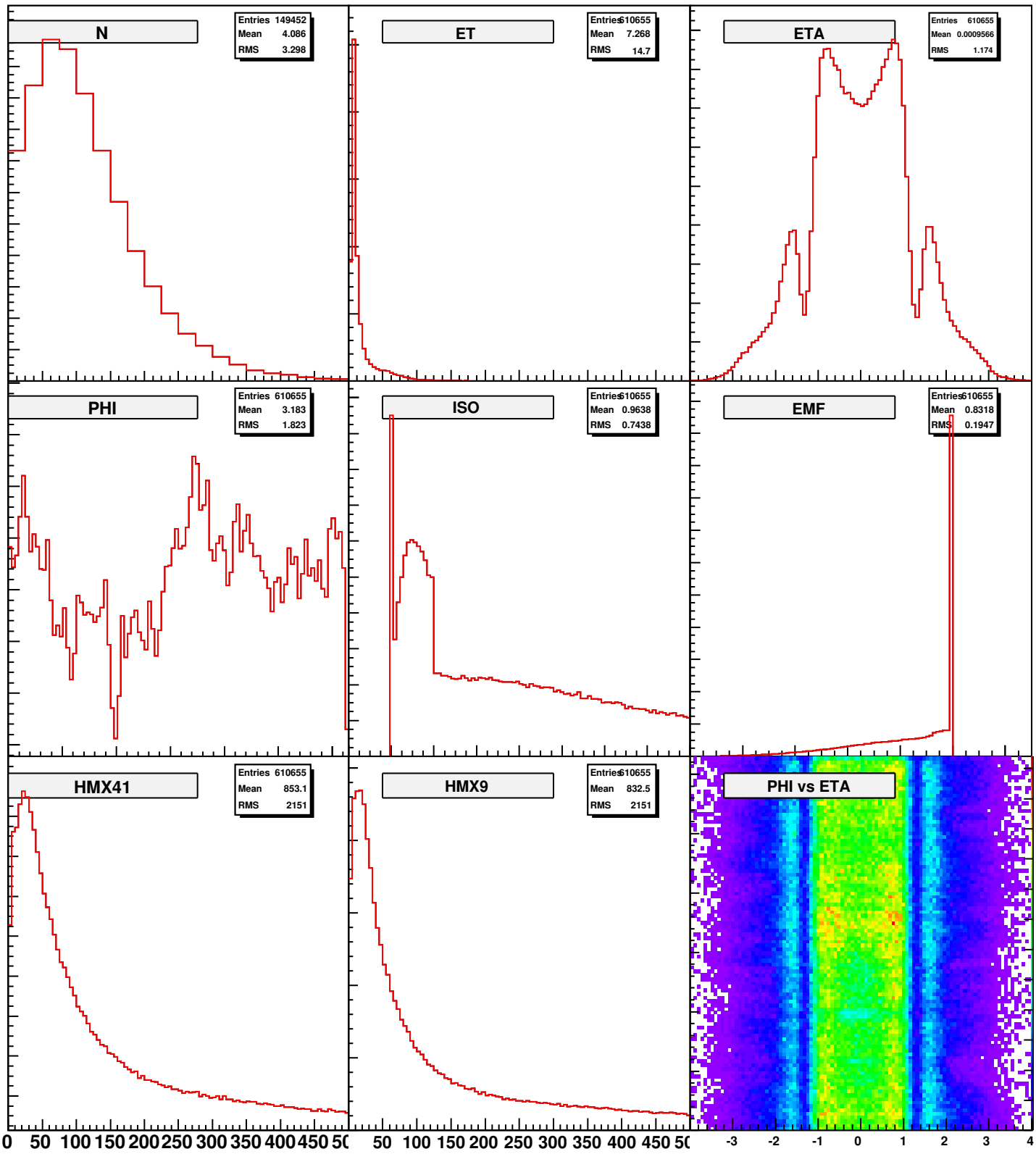


Vertices (Primary - all candidates)

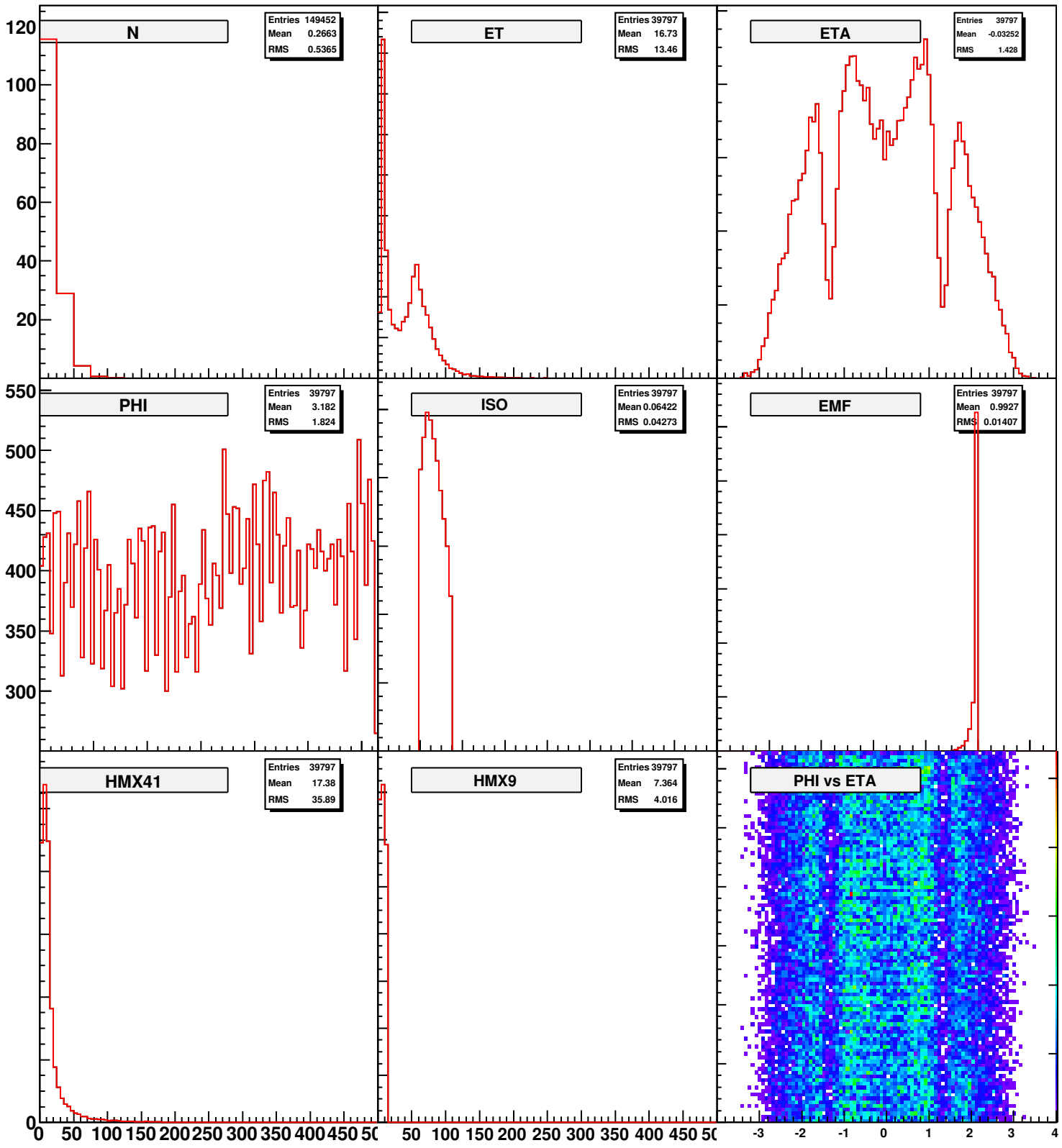


Vertices (Primary - best)

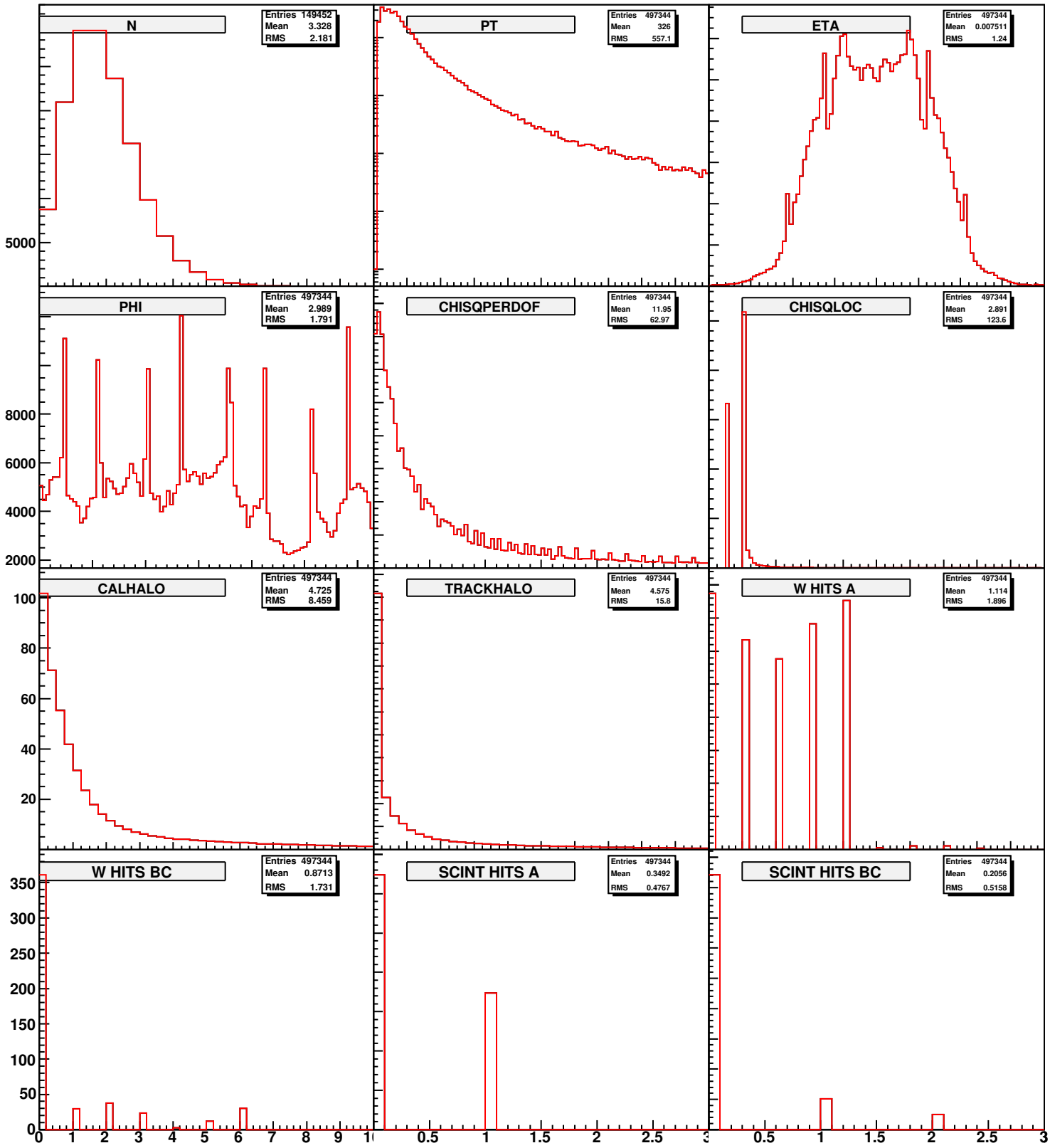

Kshort mass
Entries 425149
Mean 2.759
RMS 9.098
Lambda mass
Entries 425149
Mean 3.363
RMS 9.102
Jpsi mass
Entries 1992
Mean 7.09
RMS 7.945
Anti-Lambda mass
Entries 425149
Mean 3.358
RMS 9.155
70
60
50
40
30
20
10
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
M$_{\mu\mu}$
1.09 1.1 1.11 1.12 1.13 1.14 1.15
M$_{p\text{-}\pi+}$
V0 (All)



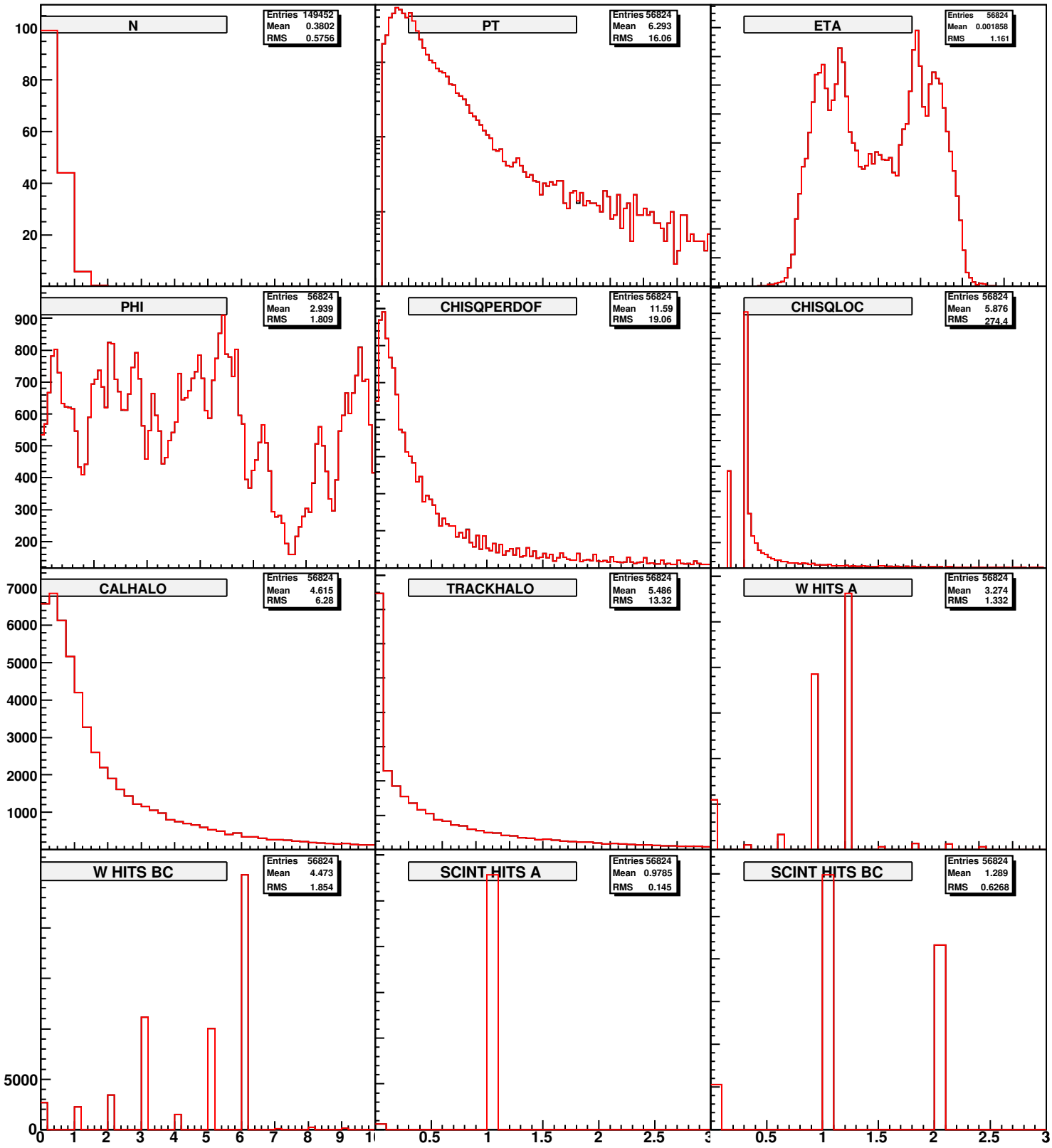
Electrons (SCONE All)



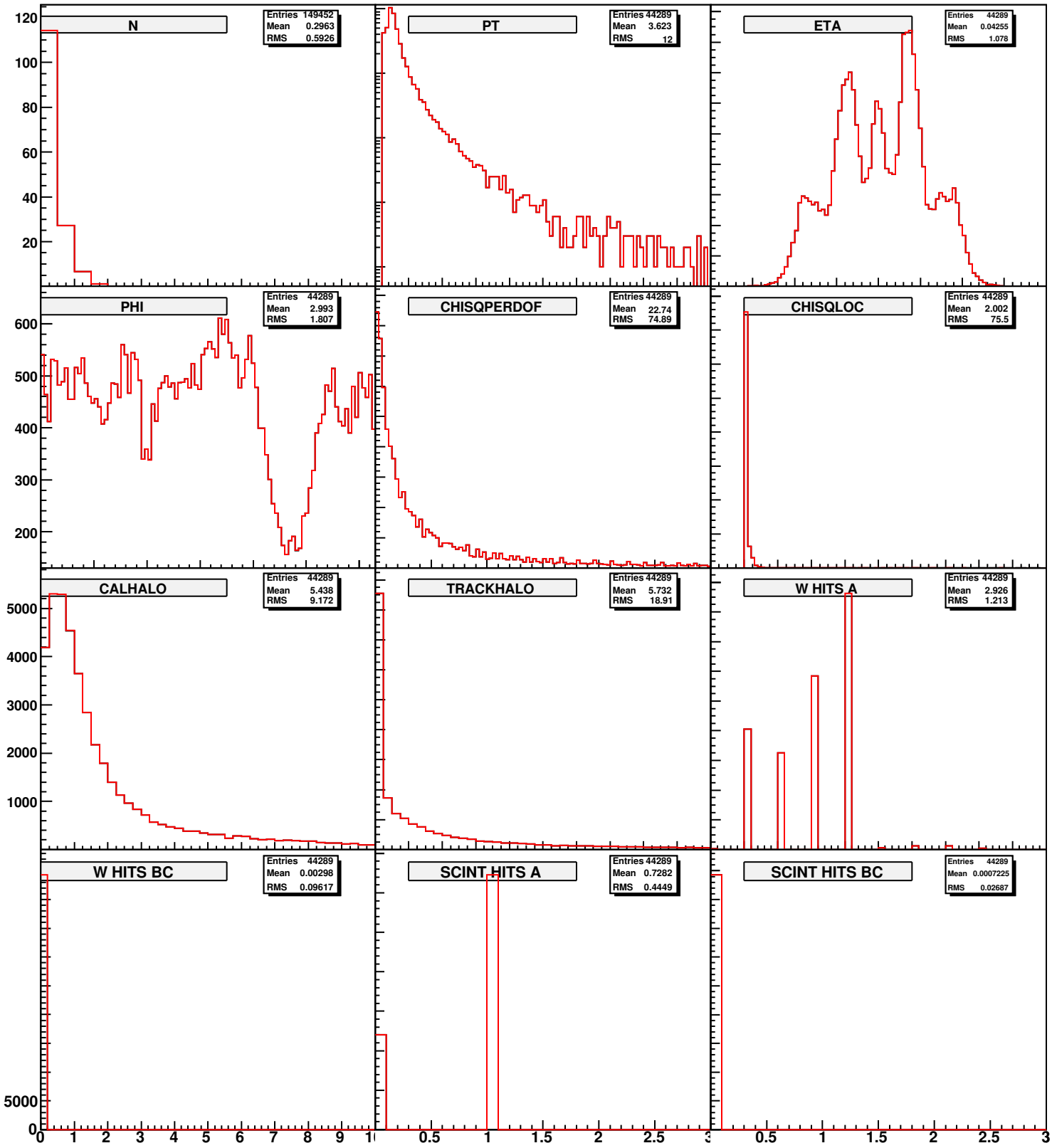
Electrons (SCONE Tight)


N
Entries 149452
Mean 3.328
RMS 2.181
PT
Entries 497344
Mean 326
RMS 557.1
ETA
Entries 497344
Mean 0.007511
RMS 1.24
PHI
Entries 497344
Mean 2.989
RMS 1.791
CHISQPERDOF
Entries 497344
Mean 11.95
RMS 62.97
CHISQLOC
Entries 497344
Mean 2.891
RMS 123.6
CALHALO
Entries 497344
Mean 4.725
RMS 8.459
TRACKHALO
Entries 497344
Mean 4.575
RMS 15.8
W HITS A
Entries 497344
Mean 1.114
RMS 1.896
W HITS BC
Entries 497344
Mean 0.8713
RMS 1.731
SCINT HITS A
Entries 497344
Mean 0.3492
RMS 0.4767
SCINT HITS BC
Entries 497344
Mean 0.2056
RMS 0.5158

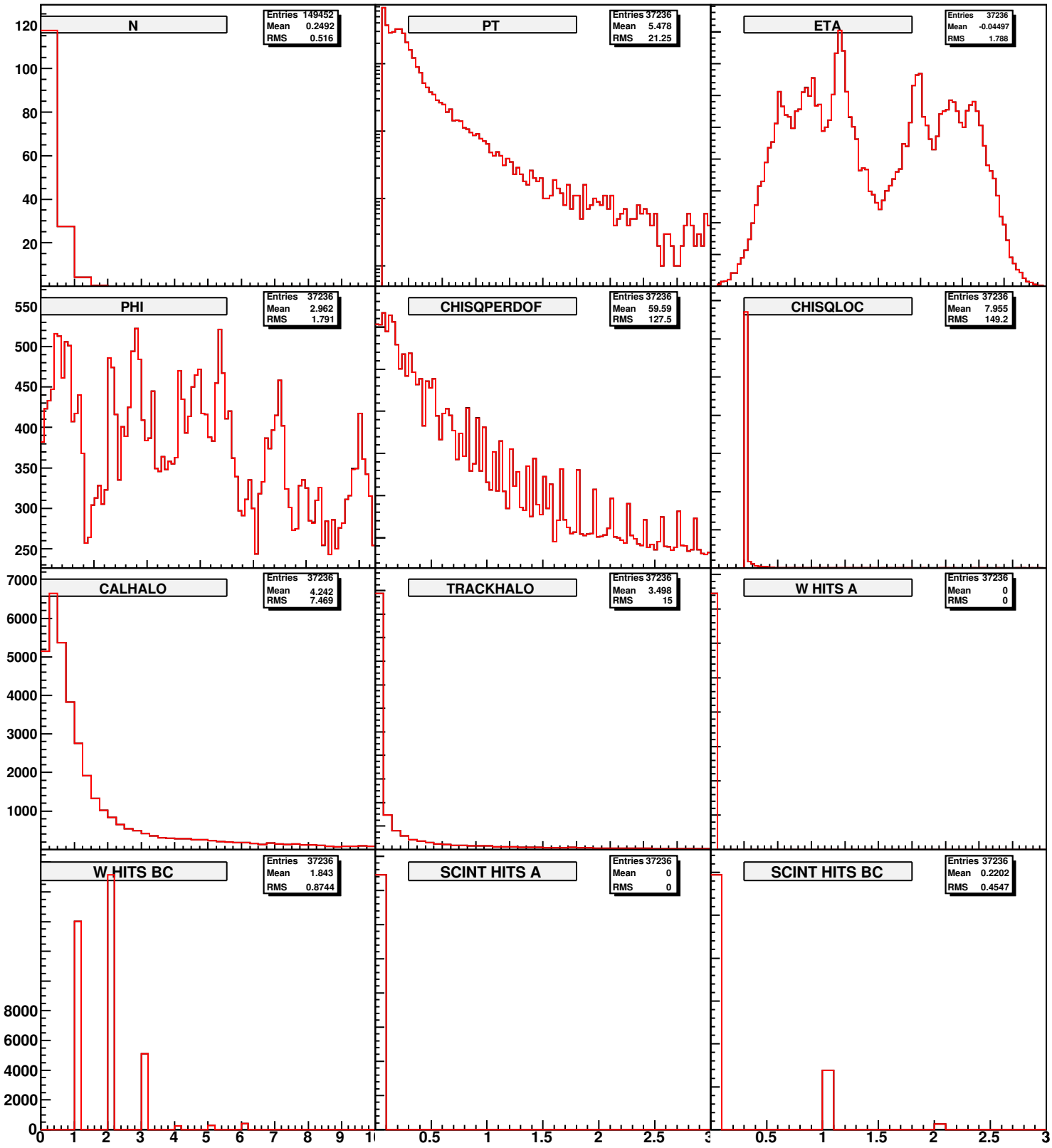
Muons (All)



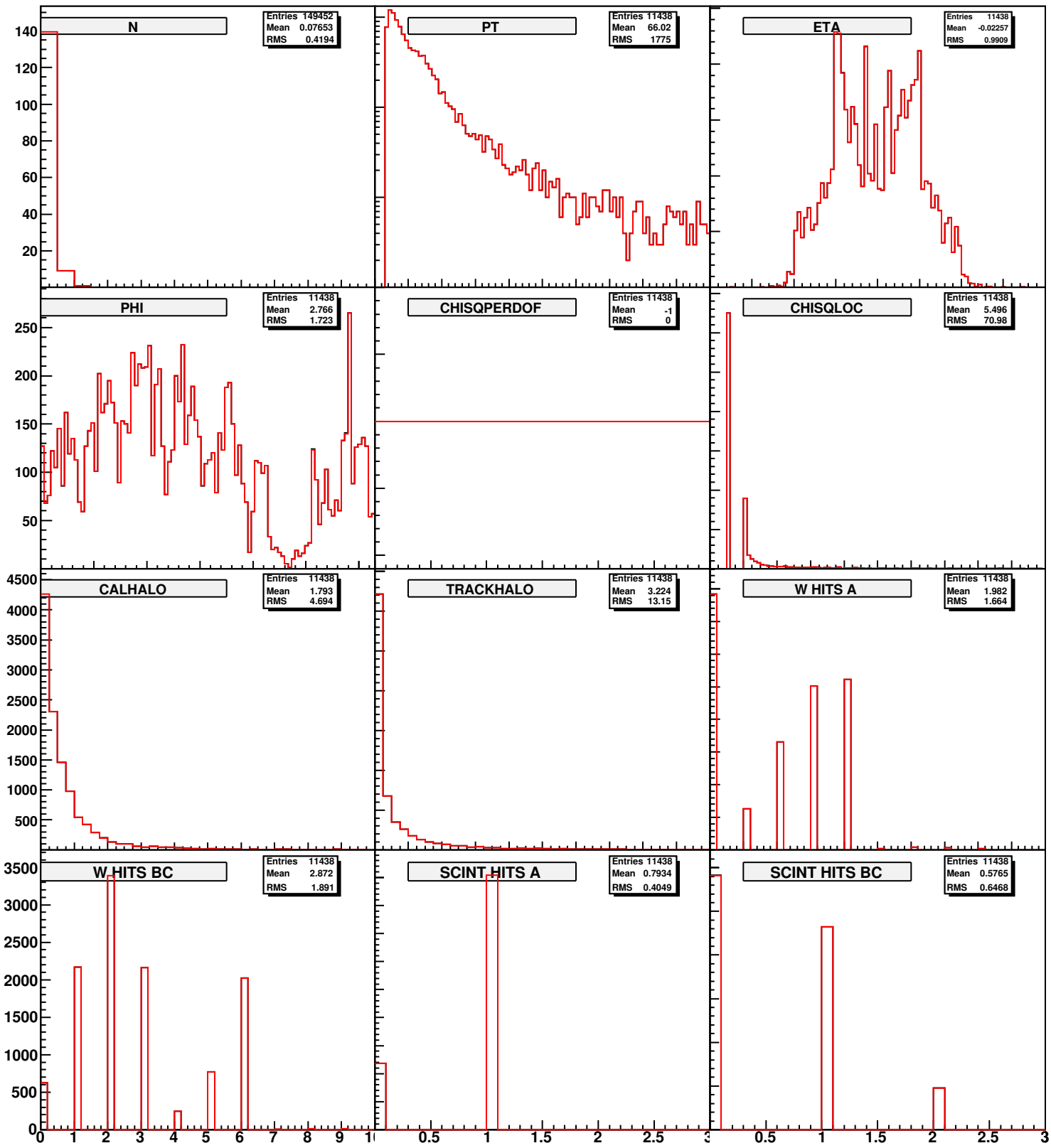
Muons (Matched)


N
Entries 149452
Mean 0.2963
RMS 0.5926
PT
Entries 44289
Mean 3.623
RMS 12
ETA
Entries 44289
Mean 0.04255
RMS 1.078
PHI
Entries 44289
Mean 2.993
RMS 1.807
CHISQPERDOF
Entries 44289
Mean 22.74
RMS 74.89
CHISQLOC
Entries 44289
Mean 2.002
RMS 75.5
CALHALO
Entries 44289
Mean 5.438
RMS 9.172
TRACKHALO
Entries 44289
Mean 5.732
RMS 18.91
W HITS A
Entries 44289
Mean 2.926
RMS 1.213
W HITS BC
Entries 44289
Mean 0.00298
RMS 0.09617
SCINT HITS A
Entries 44289
Mean 0.7282
RMS 0.4449
SCINT HITS BC
Entries 44289
Mean 0.0007225
RMS 0.02687

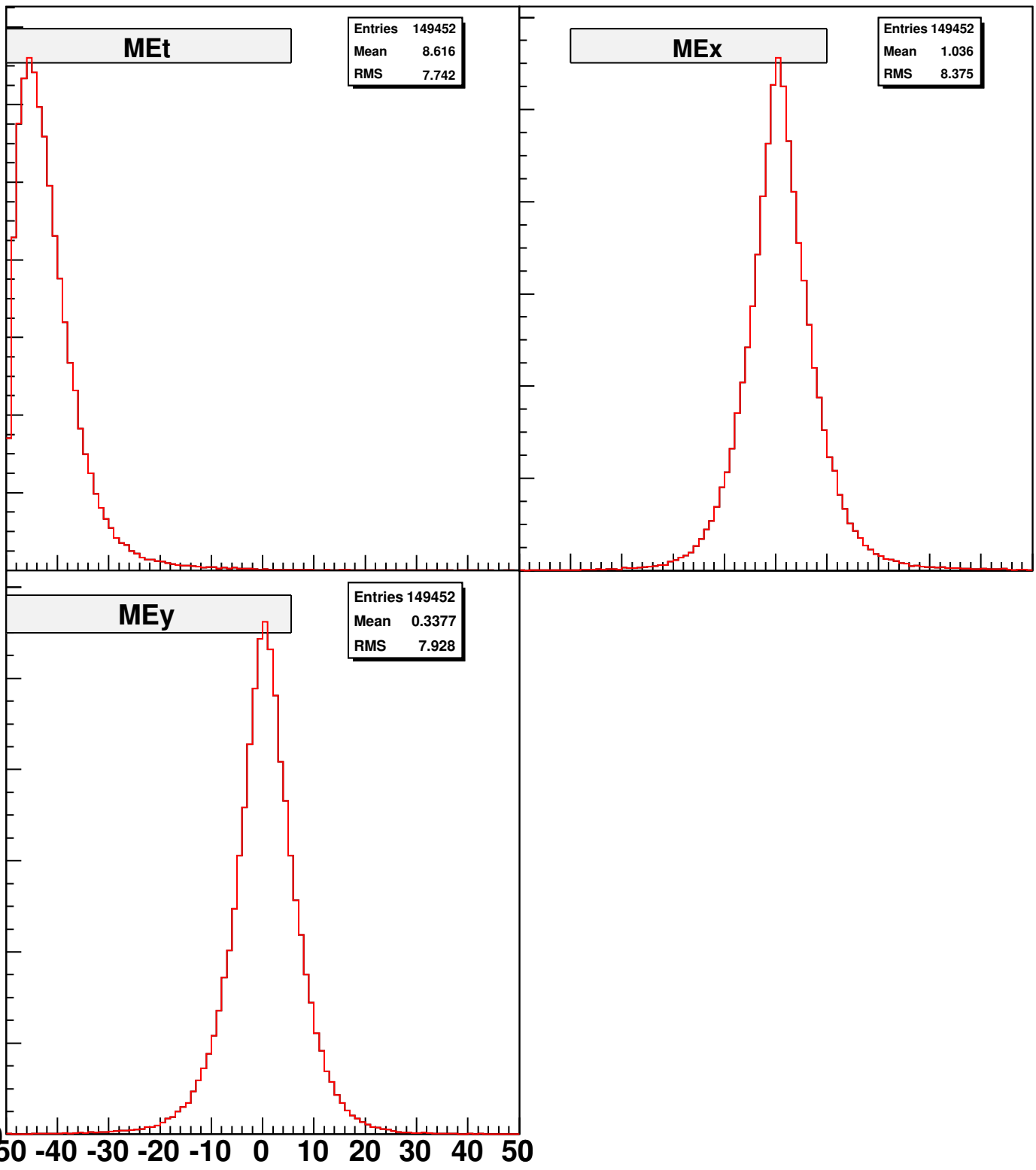
Muons (Astub)

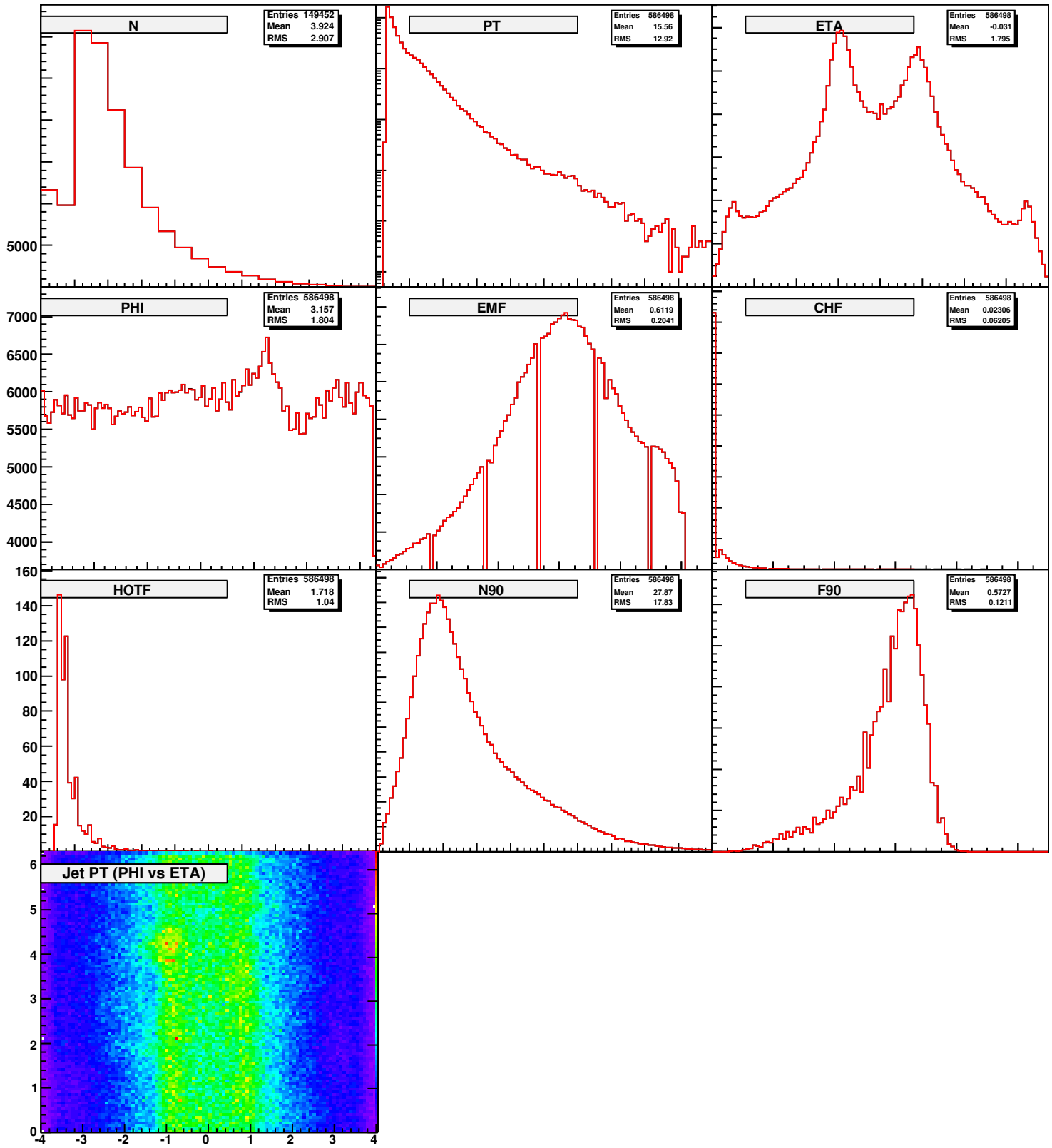


Muons (BCstub)

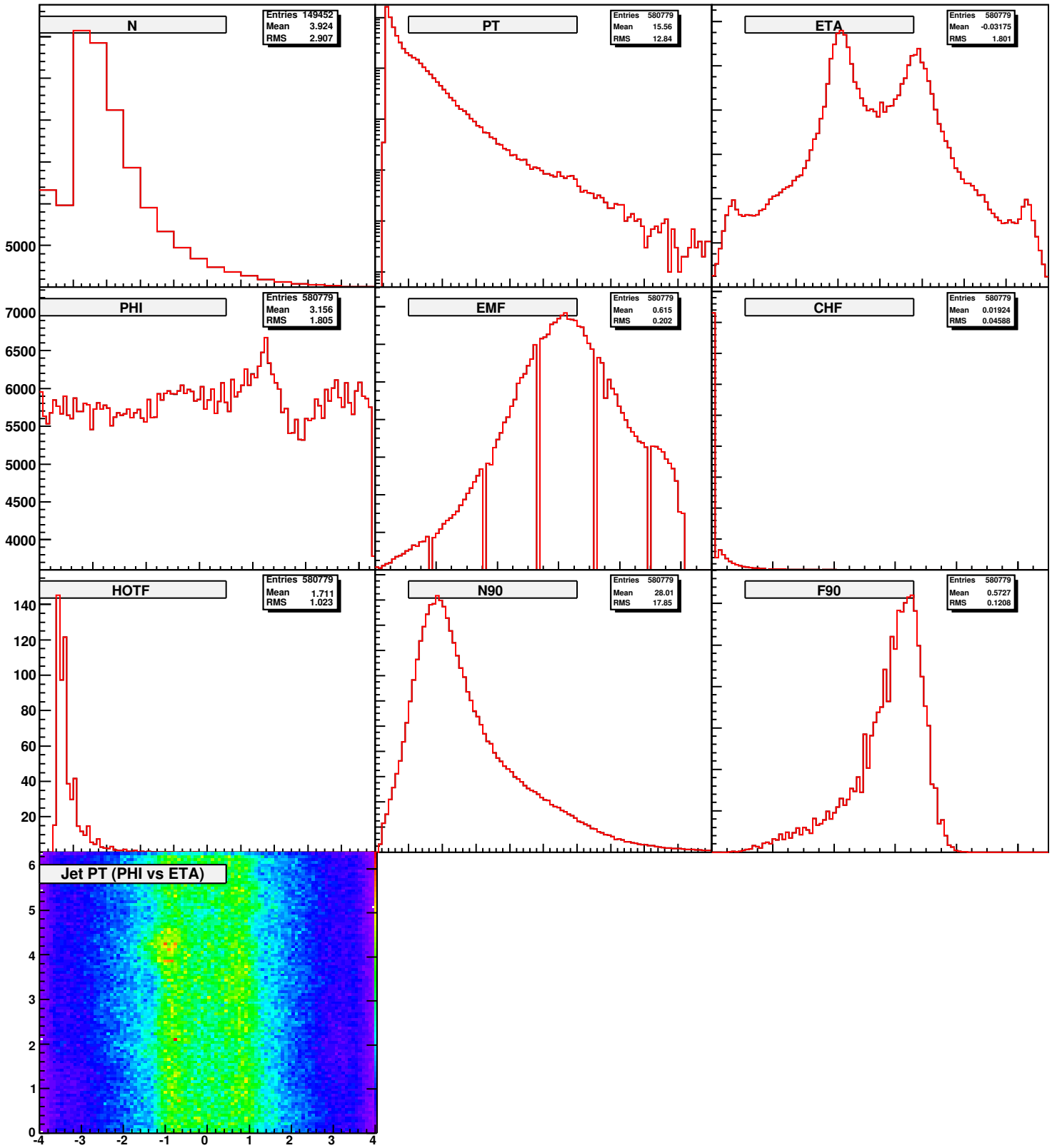


Muons (Unmatched)

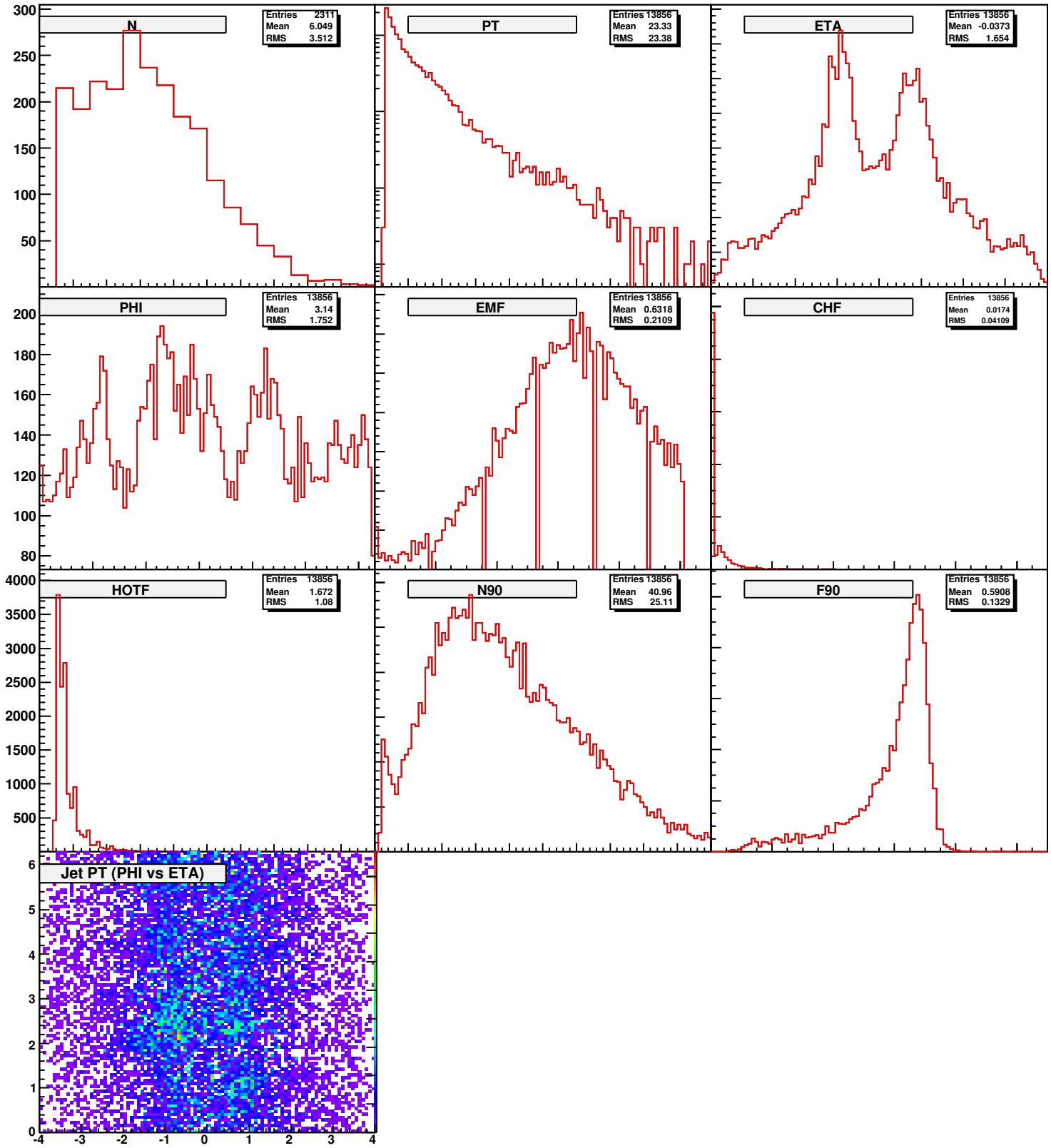

MEt
Entries 149452
Mean 8.616
RMS 7.742
MEx
Entries 149452
Mean 1.036
RMS 8.375
MEy
Entries 149452
Mean 0.3377
RMS 7.928
0
-50 -40 -30 -20 -10 0 10 20 30 40 50
Met (No cuts)



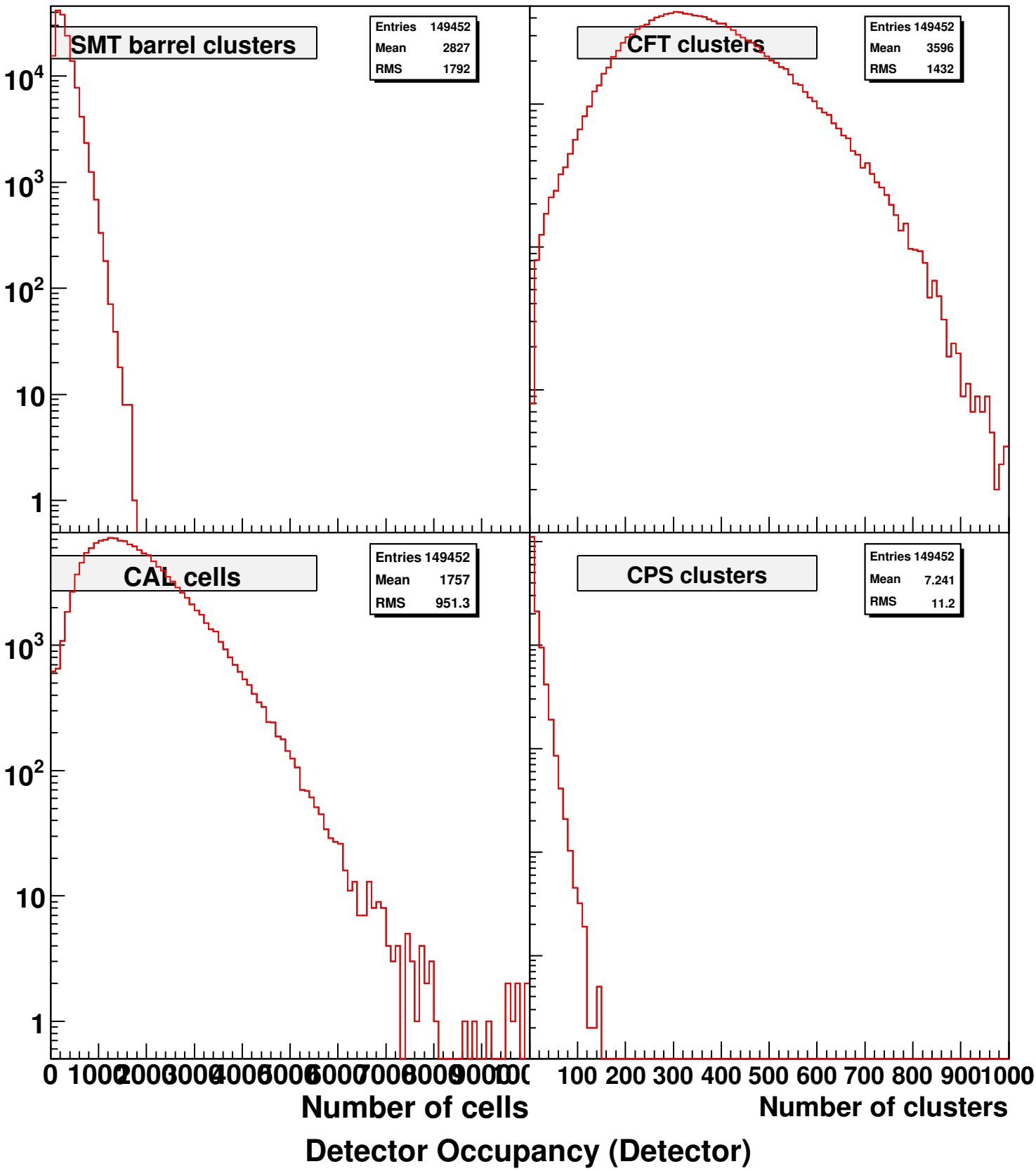
Jets (Cone R 0.7 (no cuts))

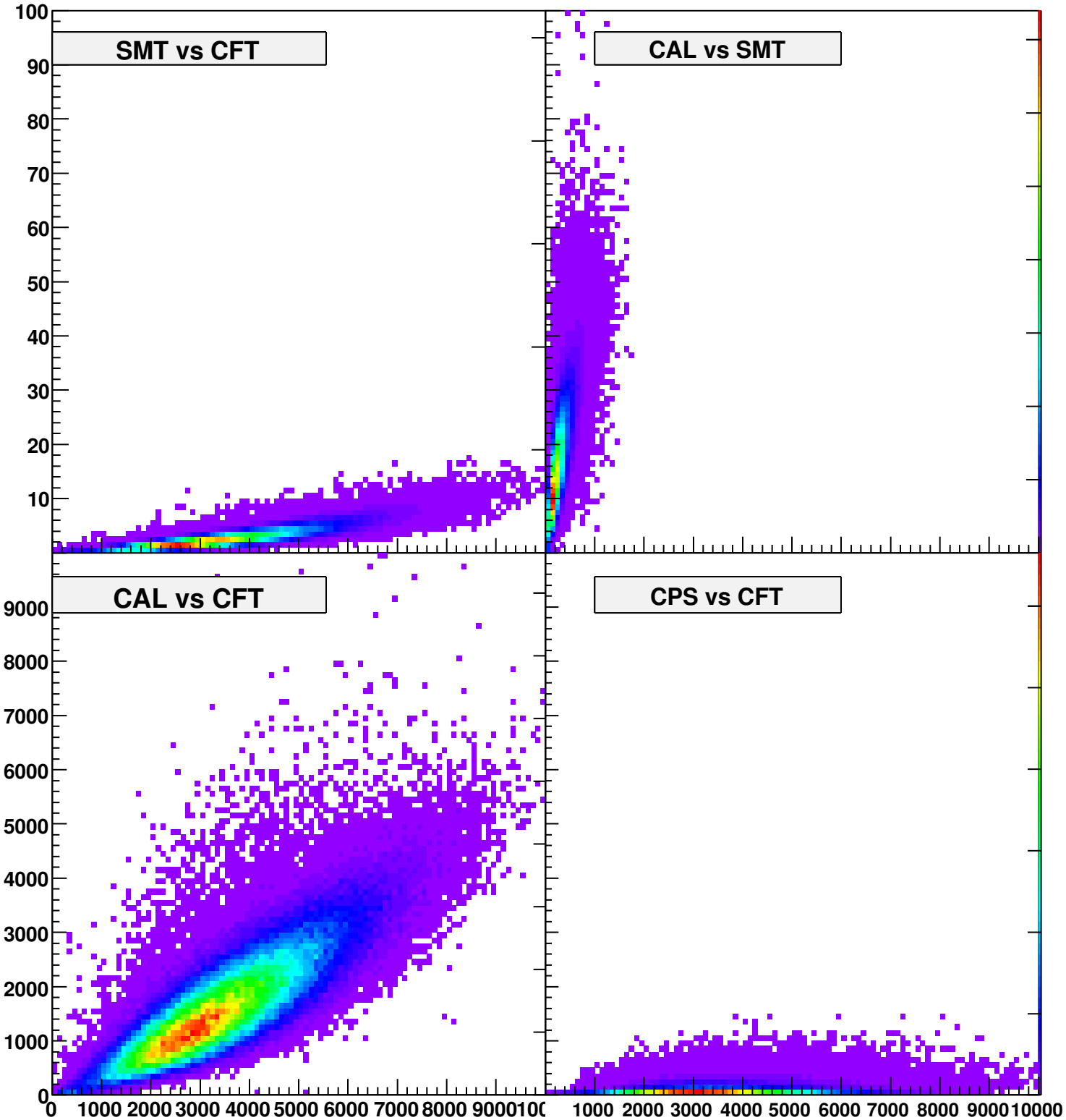


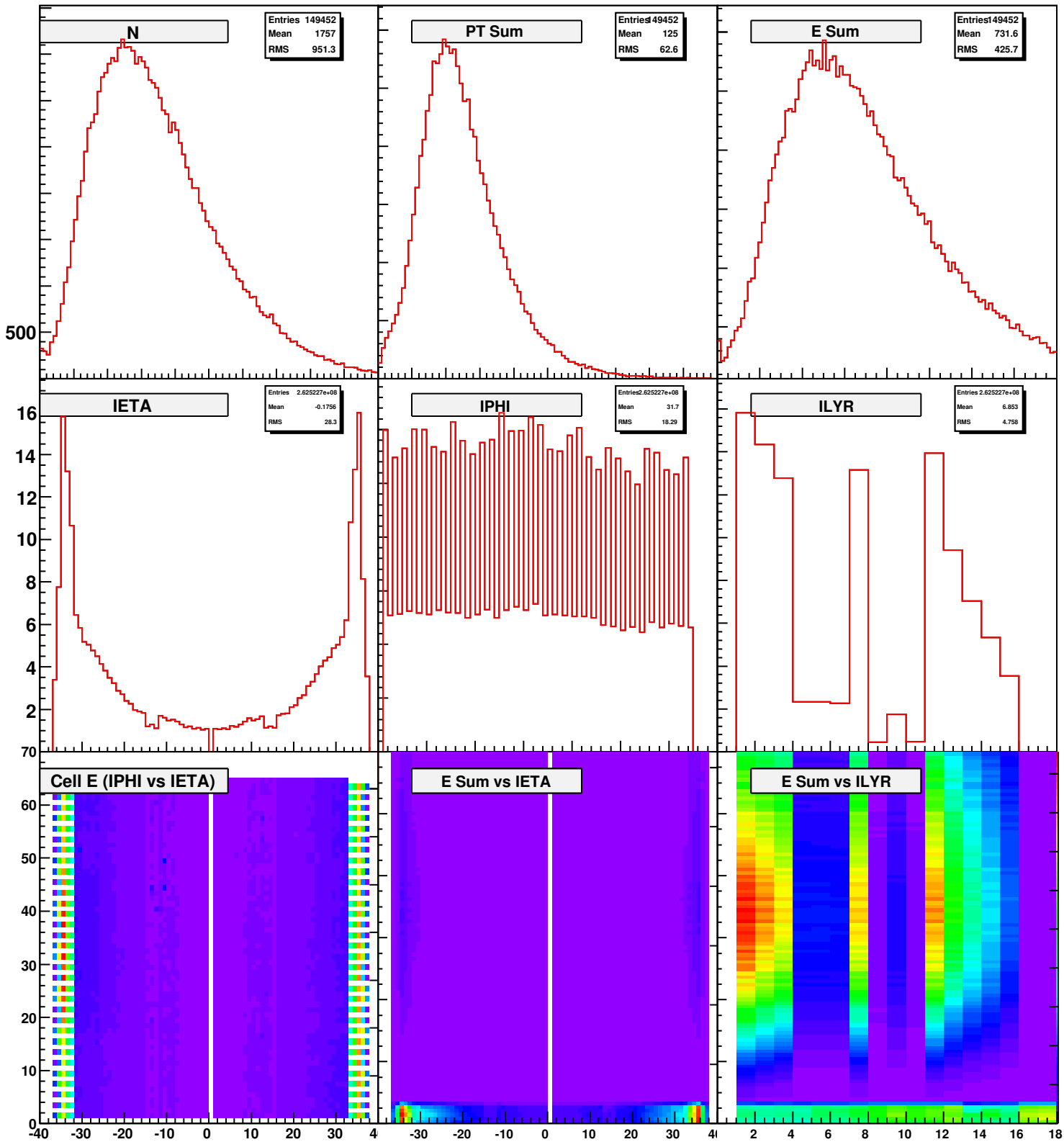
Jets (Cone R 0.7 (standard cuts))



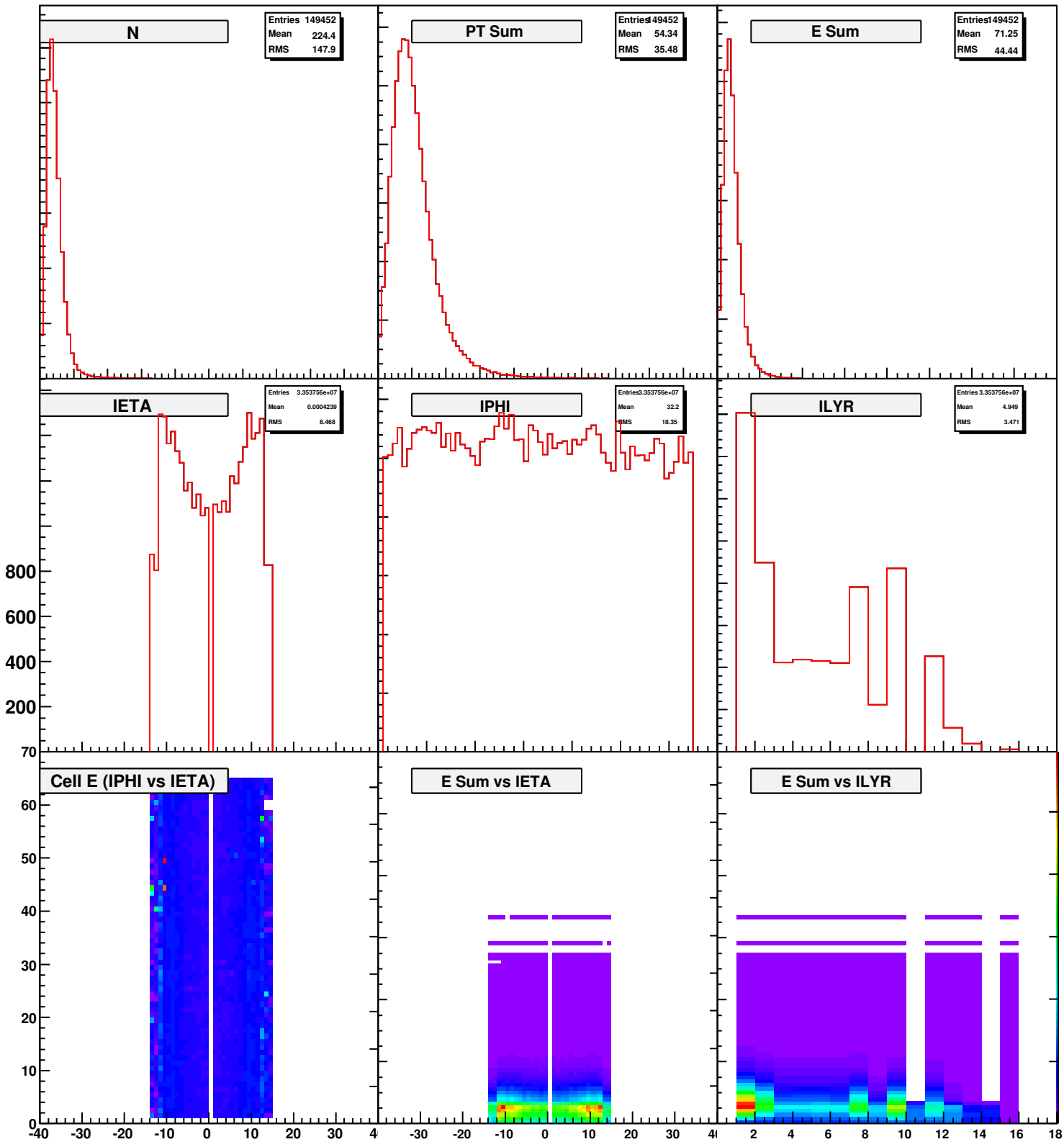
Jets (Cone R 0.7 (standard cuts, MET>30))


SMT barrel clusters
Entries 149452
Mean 2827
RMS 1792
CFT clusters
Entries 149452
Mean 3596
RMS 1432
CAL cells
Entries 149452
Mean 1757
RMS 951.3
CPS clusters
Entries 149452
Mean 7.241
RMS 11.2
Number of cells
Number of clusters
Detector Occupancy (Detector)

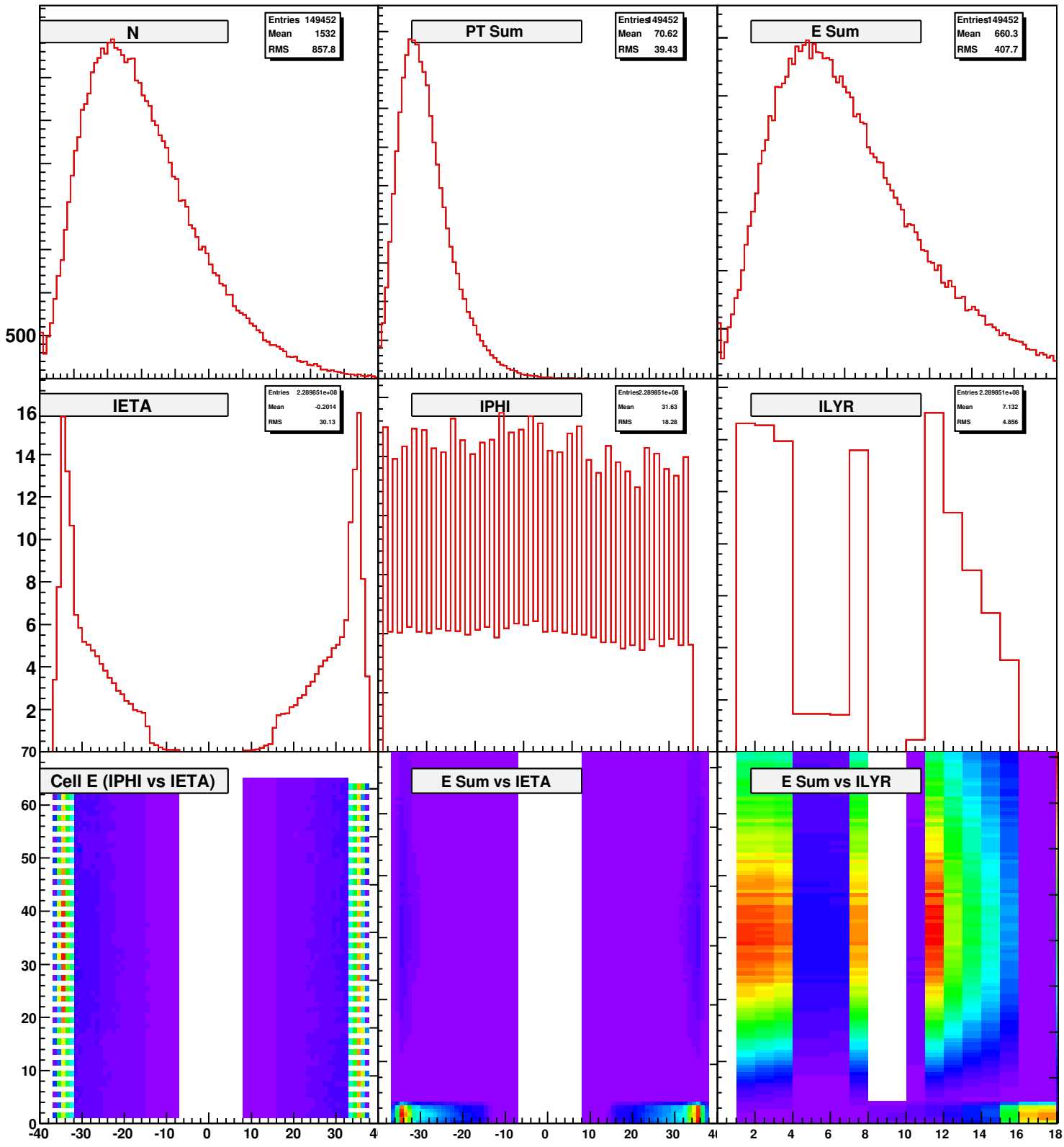

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
100
90
80
70
60
50
40
30
20
10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Detector Occupancy (Detector)



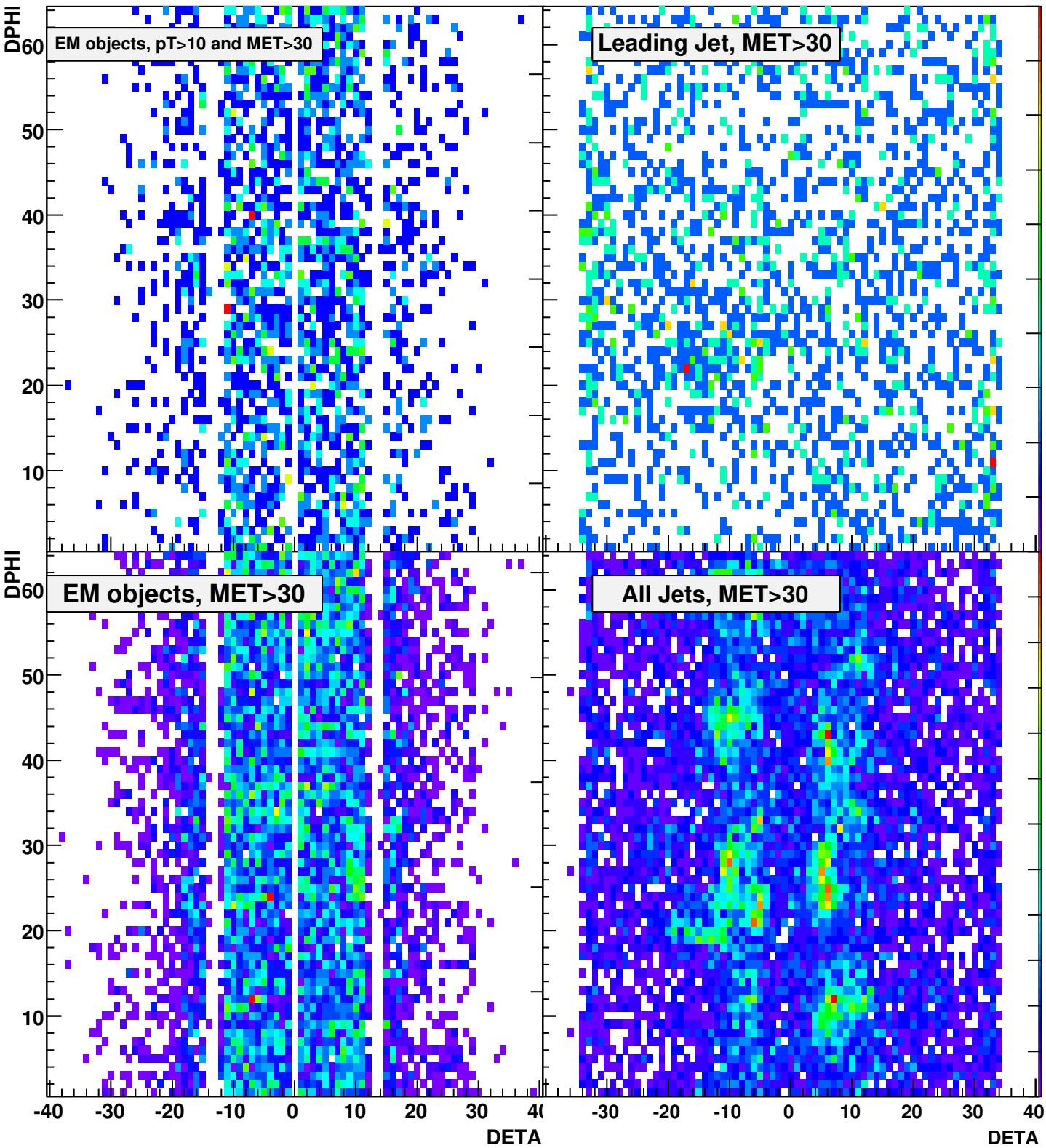
Calorimeter (All cells)



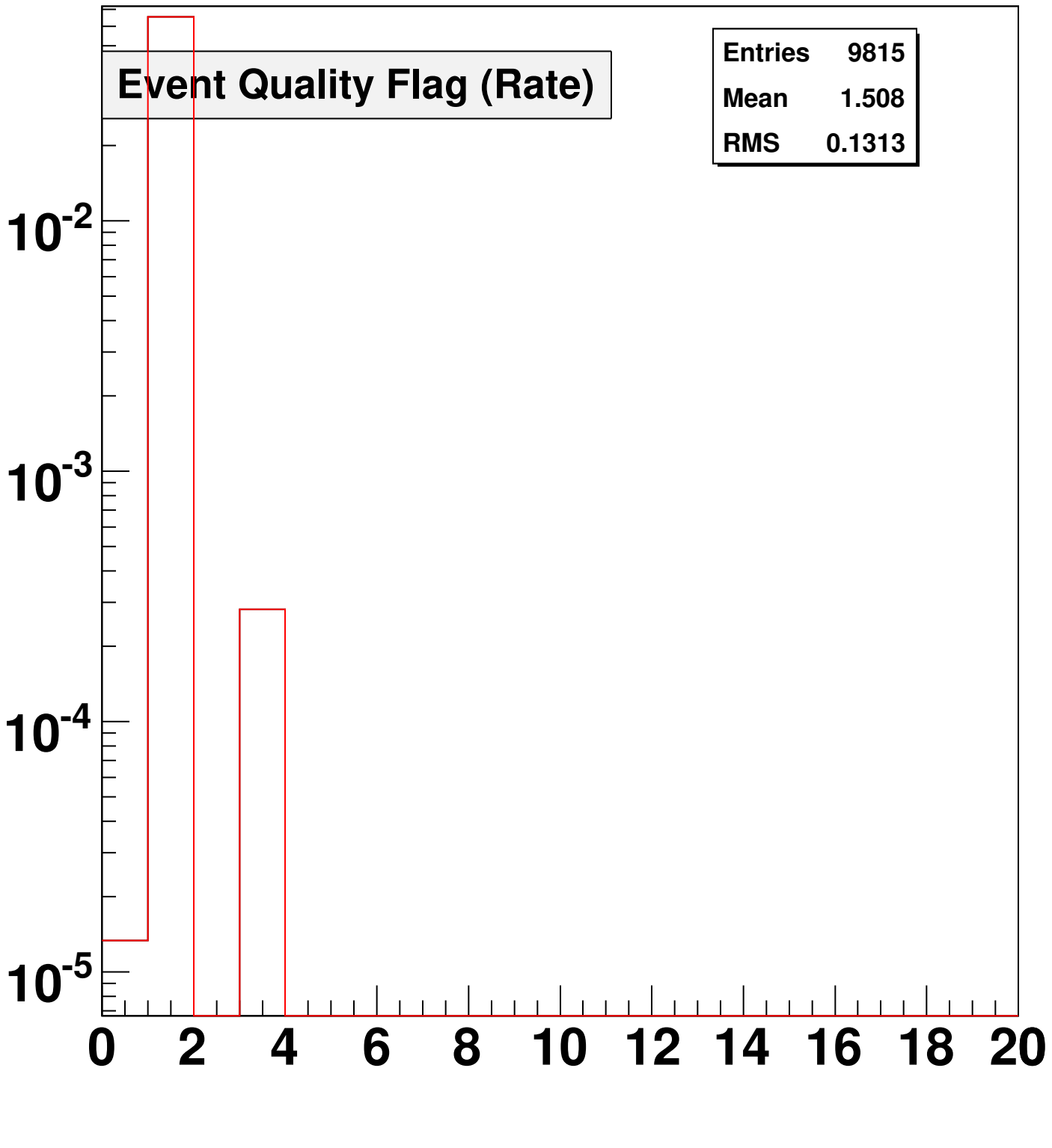
Calorimeter (All CC cells)

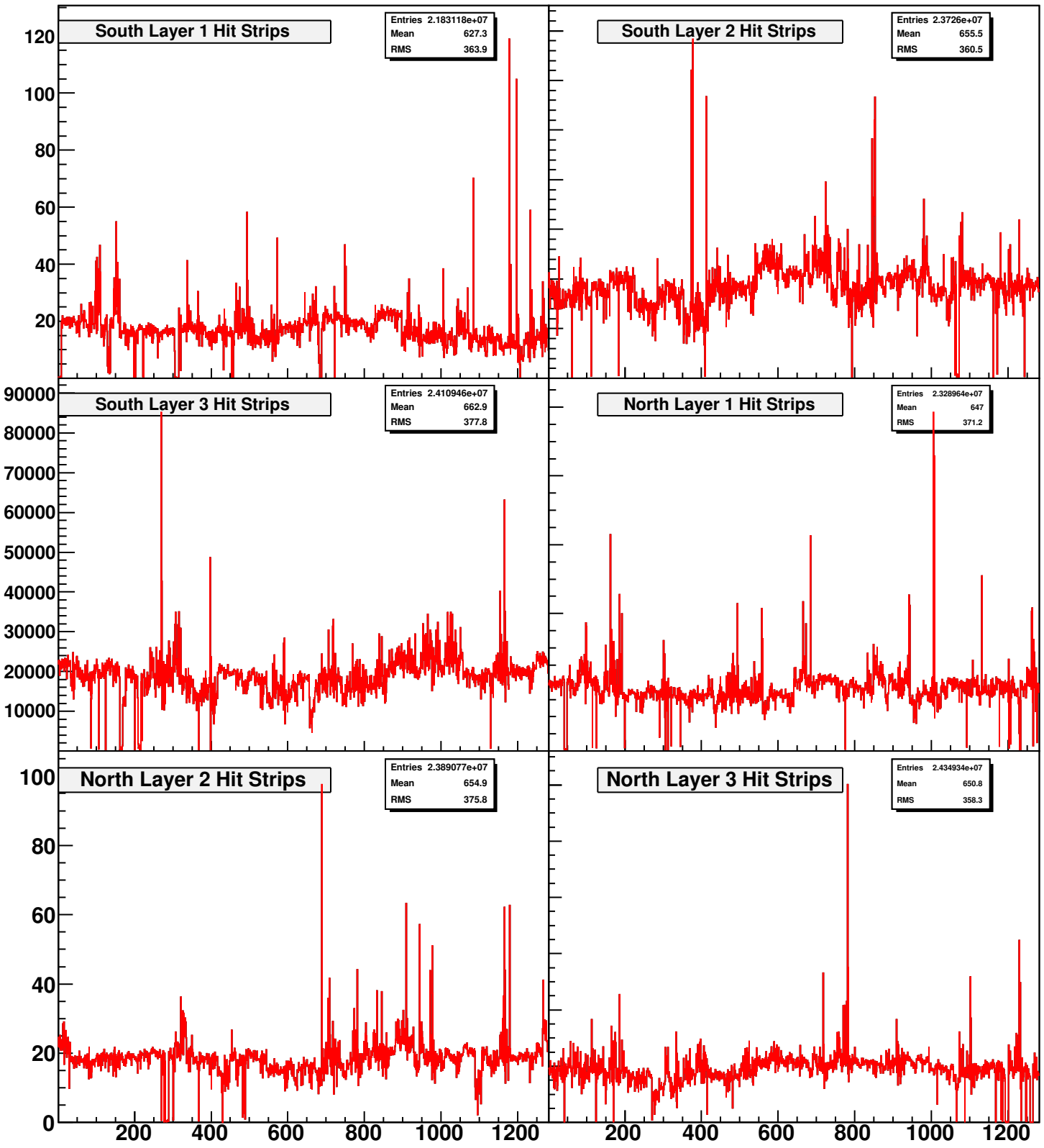


Calorimeter (All EC cells)

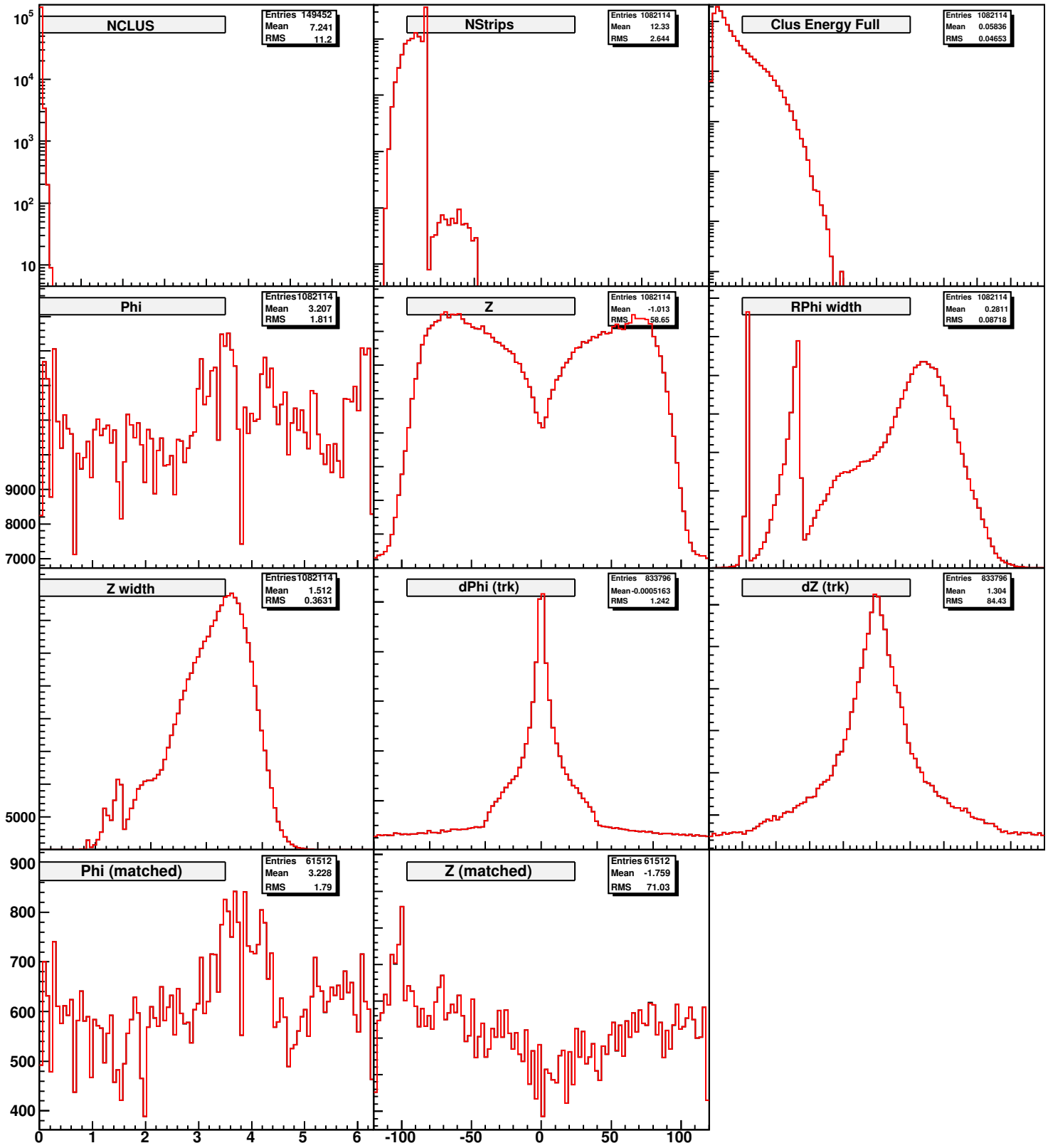


Cal Objects with MET>30 (All cells)

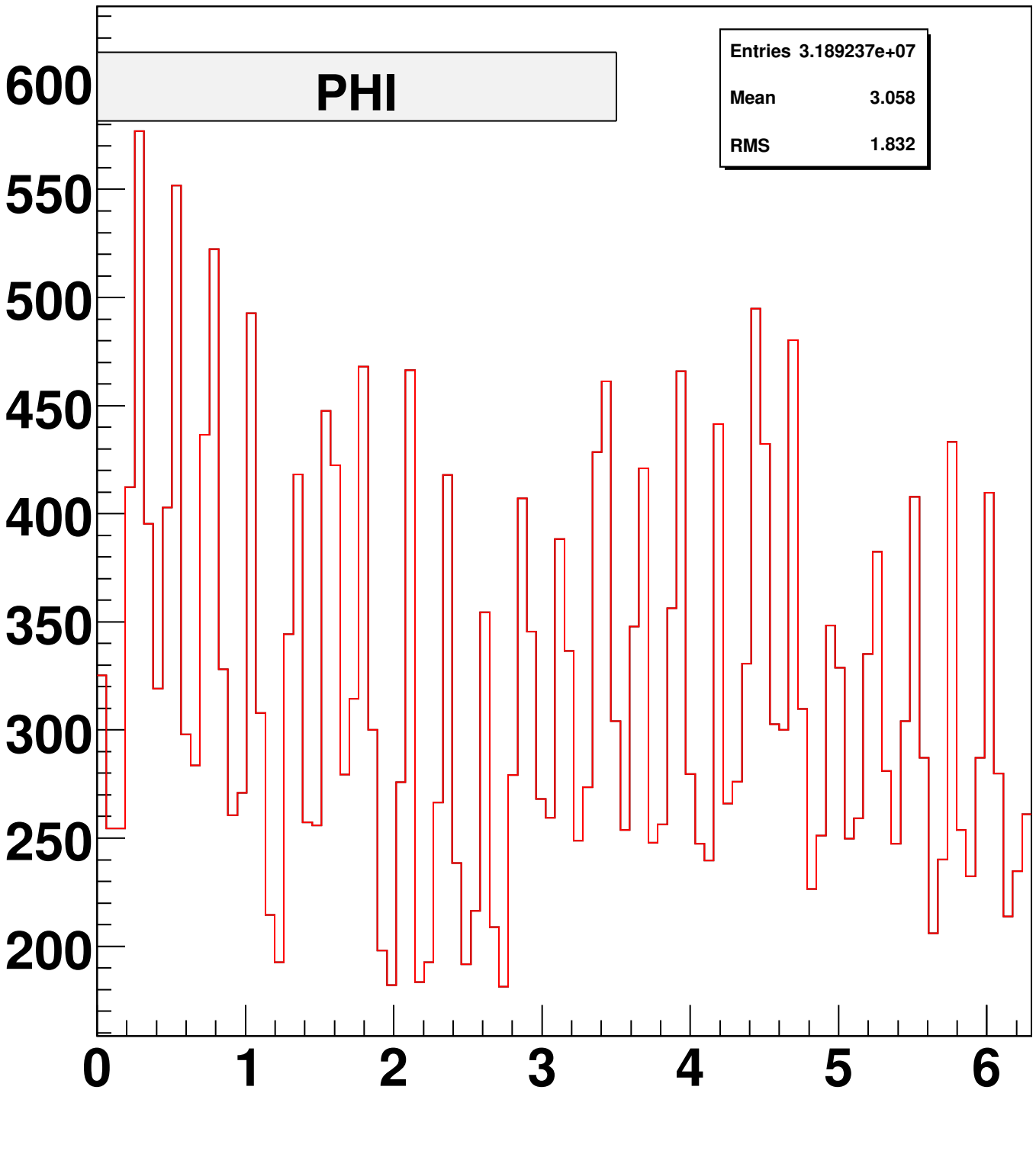

Event Quality Flag (Rate)
Entries 9815
Mean 1.508
RMS 0.1313
10-2
10-3
10-4
10-5
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

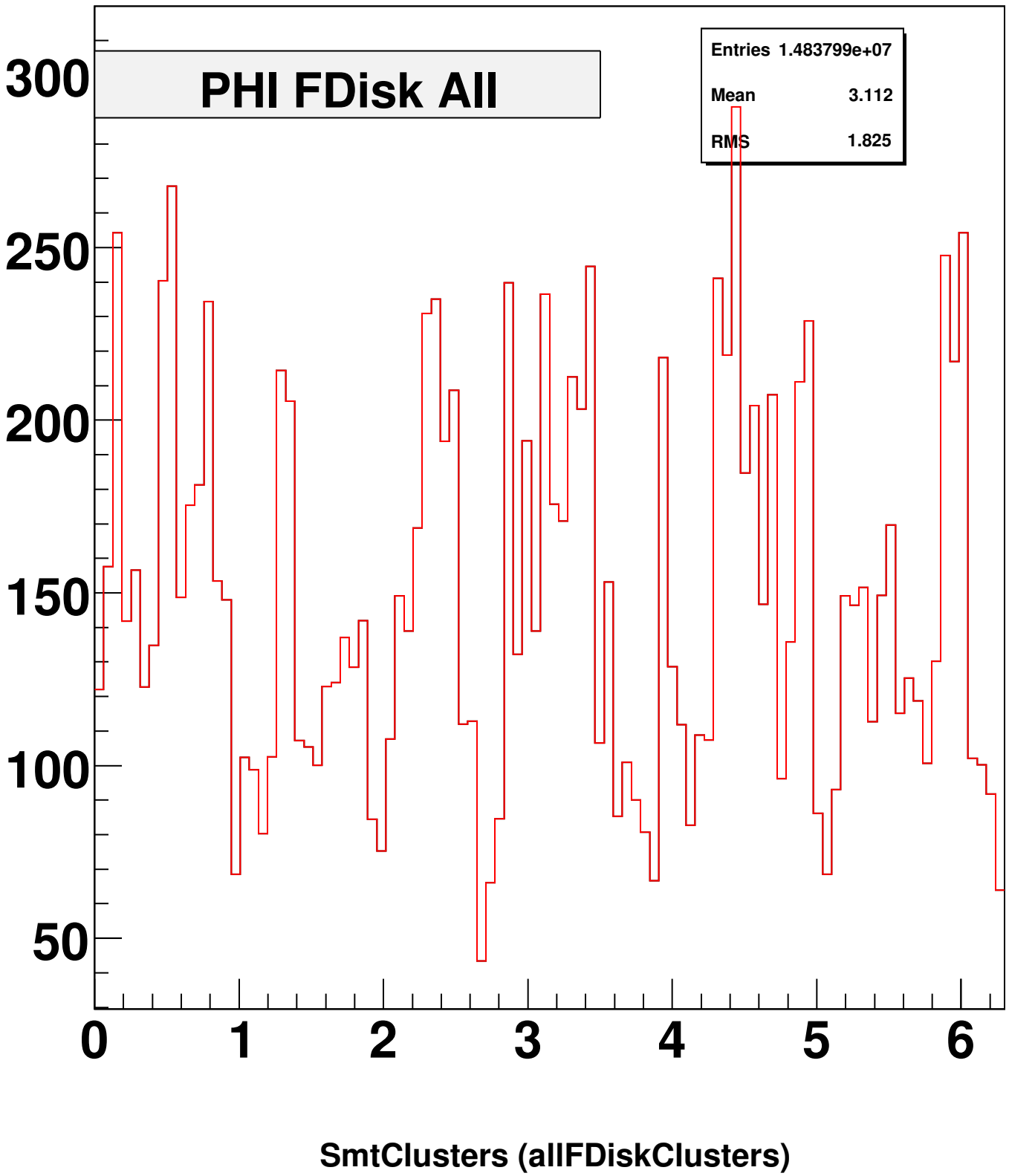


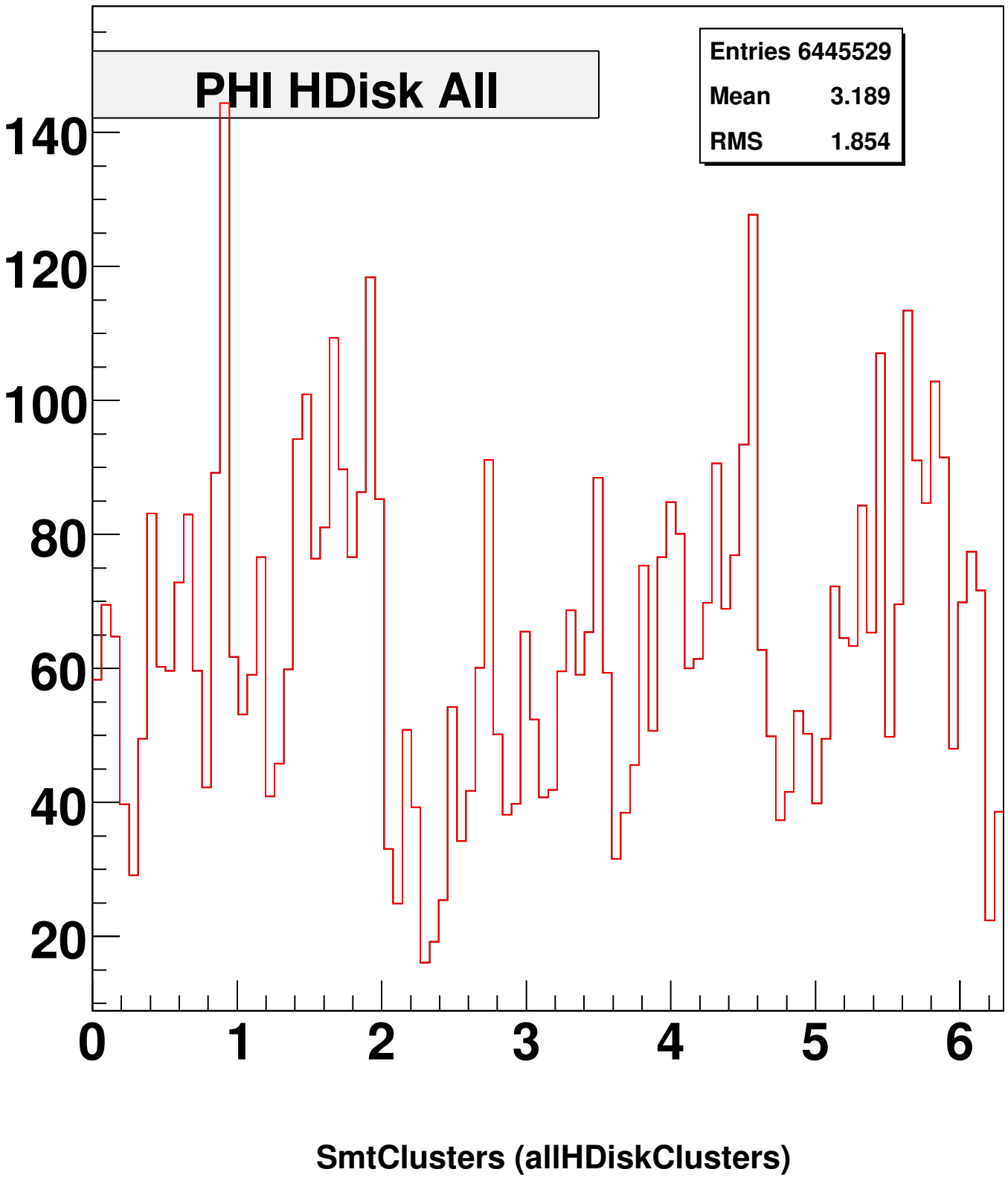
CPS Hit Strips (All Clusters)

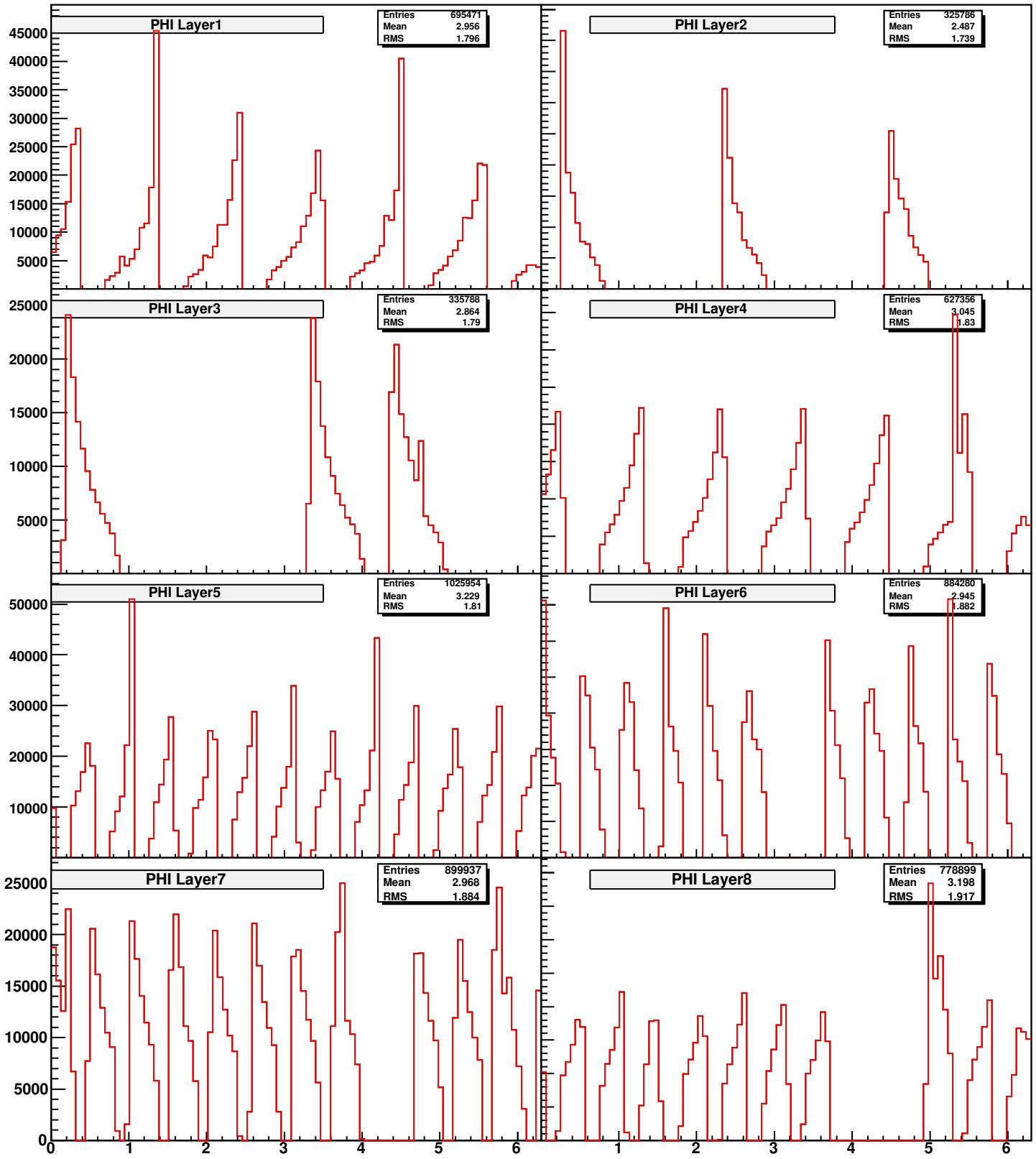


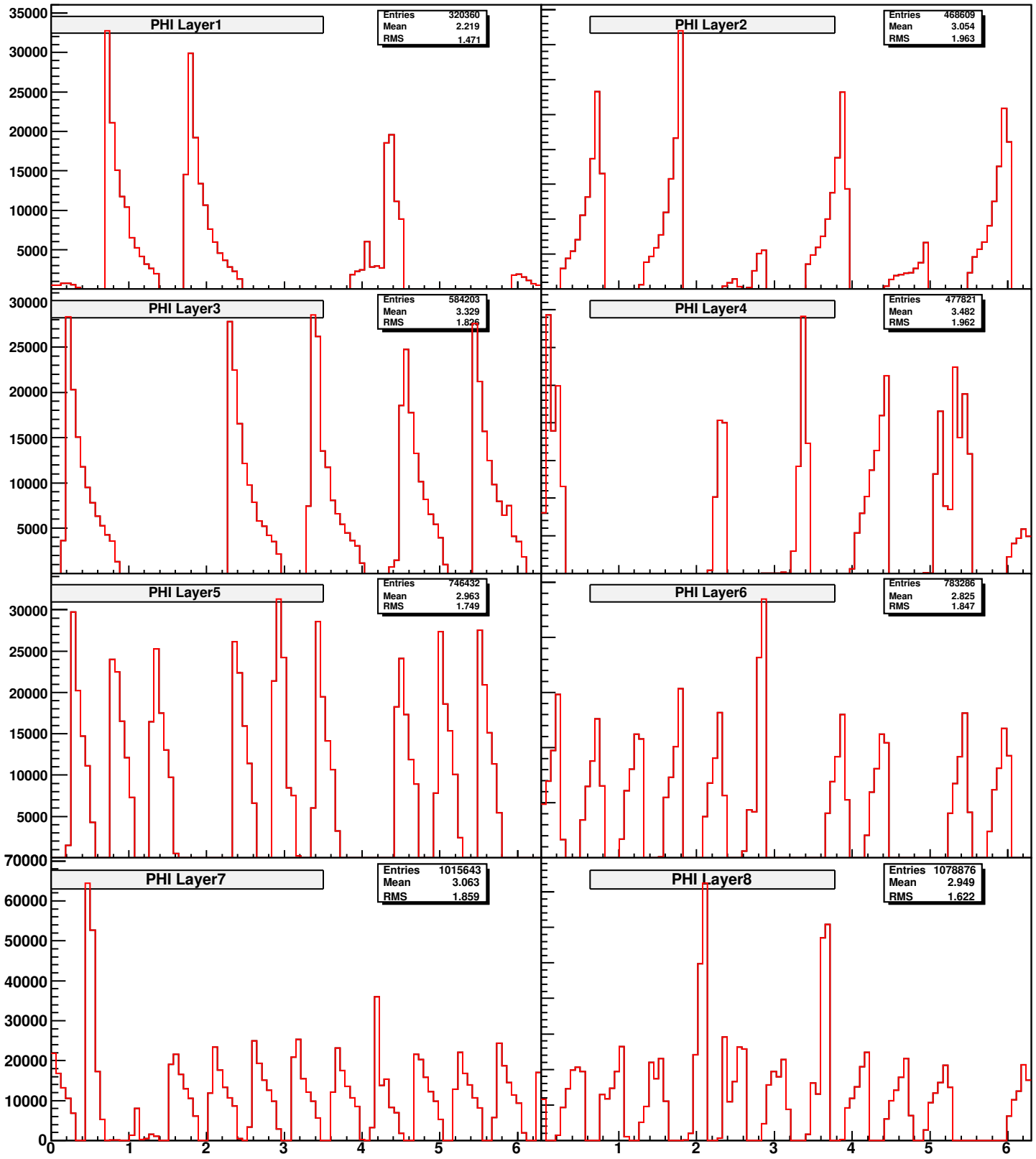
CPS Clusters (All Clusters)


PHI
Entries 3.189237e+07
Mean 3.058
RMS 1.832
600
550
500
450
400
350
300
250
200
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

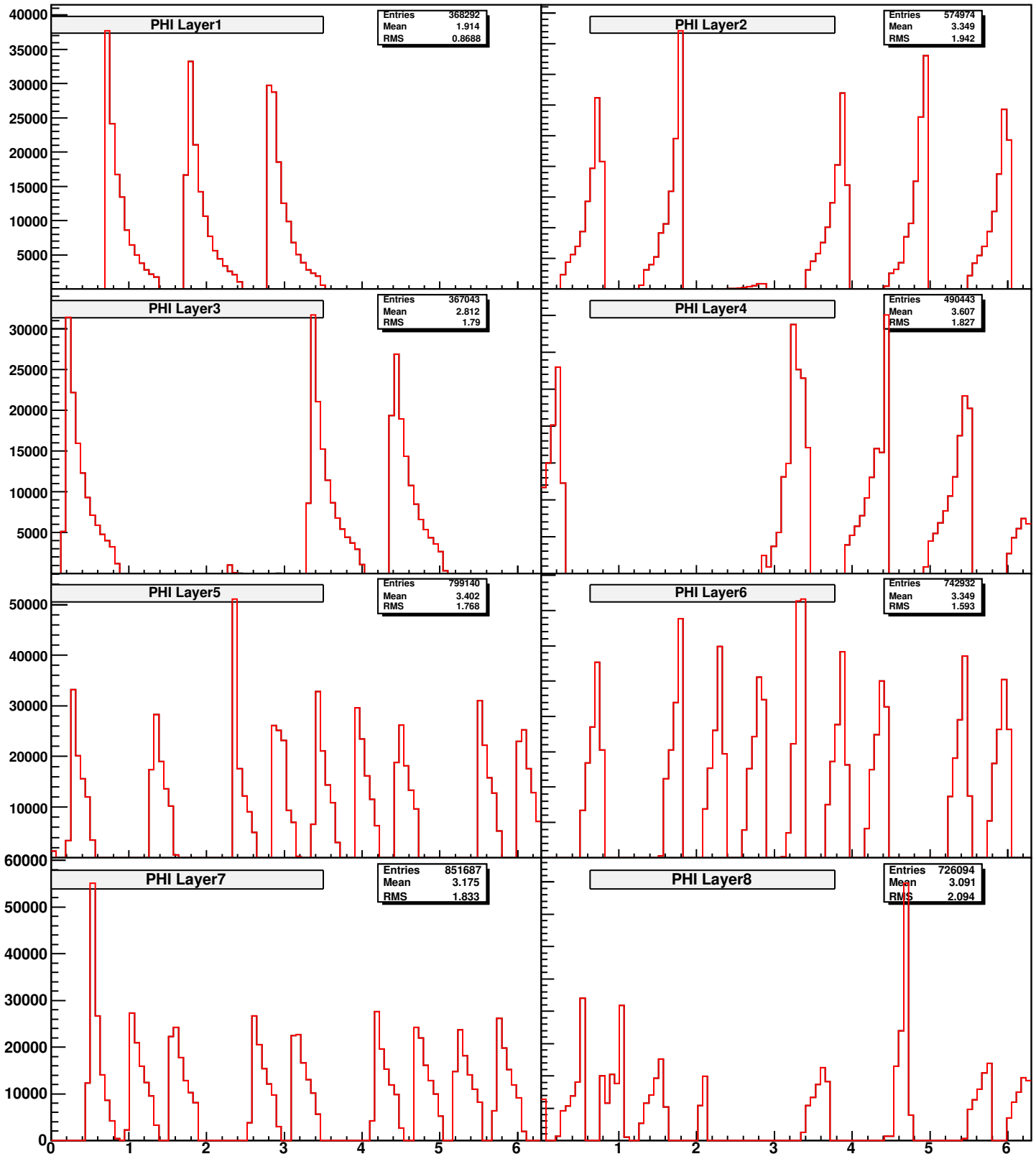

PHI FDisk All
Entries 1.483799e+07
Mean 3.112
RMS 1.825
300
250
200
150
100
50
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)


PHI HDisk All
Entries 6445529
Mean 3.189
RMS 1.854
140
120
100
80
60
40
20
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

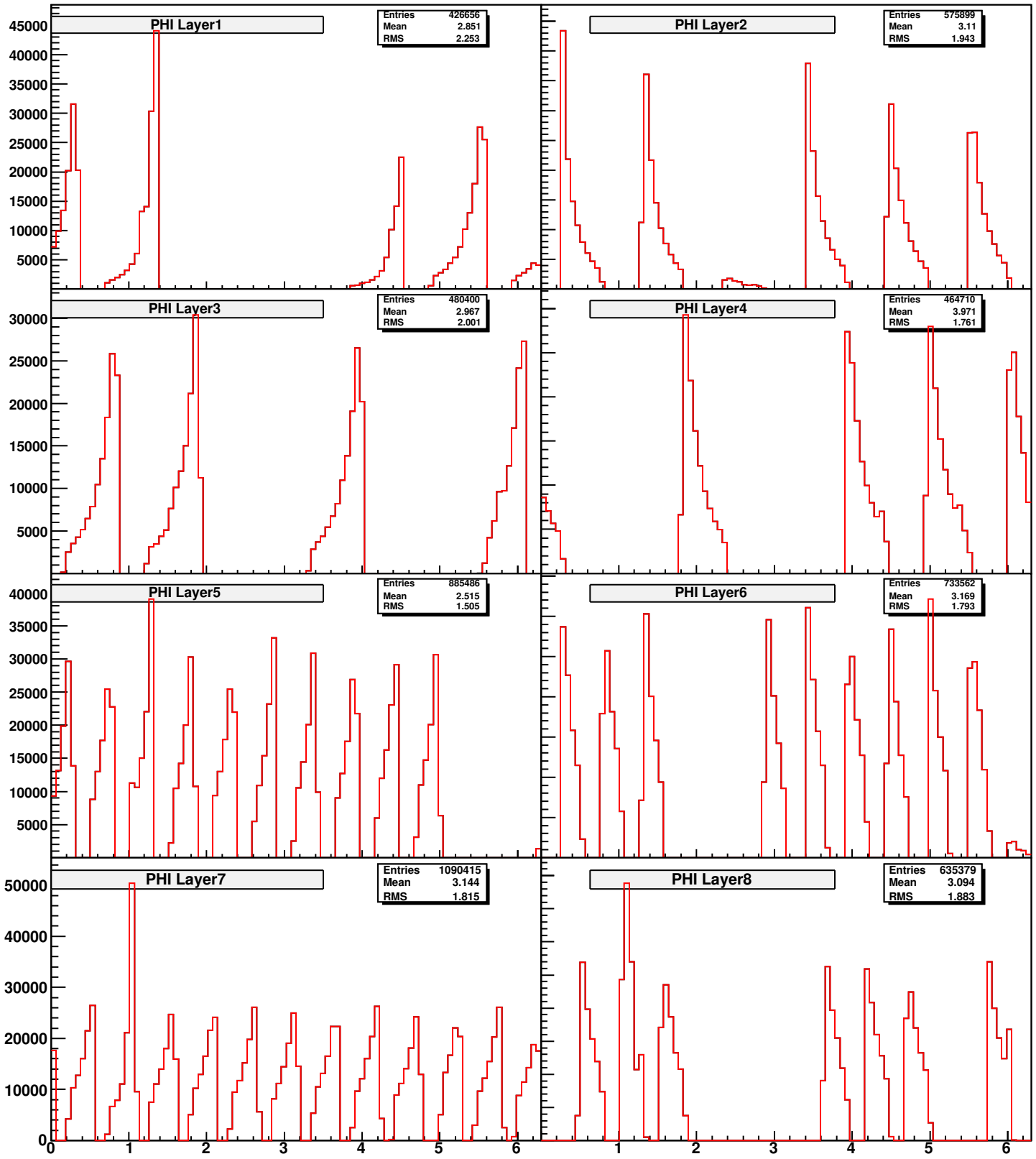

PHI Layer1
Entries 695471
Mean 2.956
RMS 1.796
PHI Layer2
Entries 325786
Mean 2.487
RMS 1.739
PHI Layer3
Entries 335788
Mean 2.864
RMS 1.79
PHI Layer4
Entries 627356
Mean 3.045
RMS 1.83
PHI Layer5
Entries 1025954
Mean 3.229
RMS 1.81
PHI Layer6
Entries 884280
Mean 2.945
RMS 1.882
PHI Layer7
Entries 899937
Mean 2.968
RMS 1.884
PHI Layer8
Entries 778899
Mean 3.198
RMS 1.917
SmtClusters (ClustrBar1)



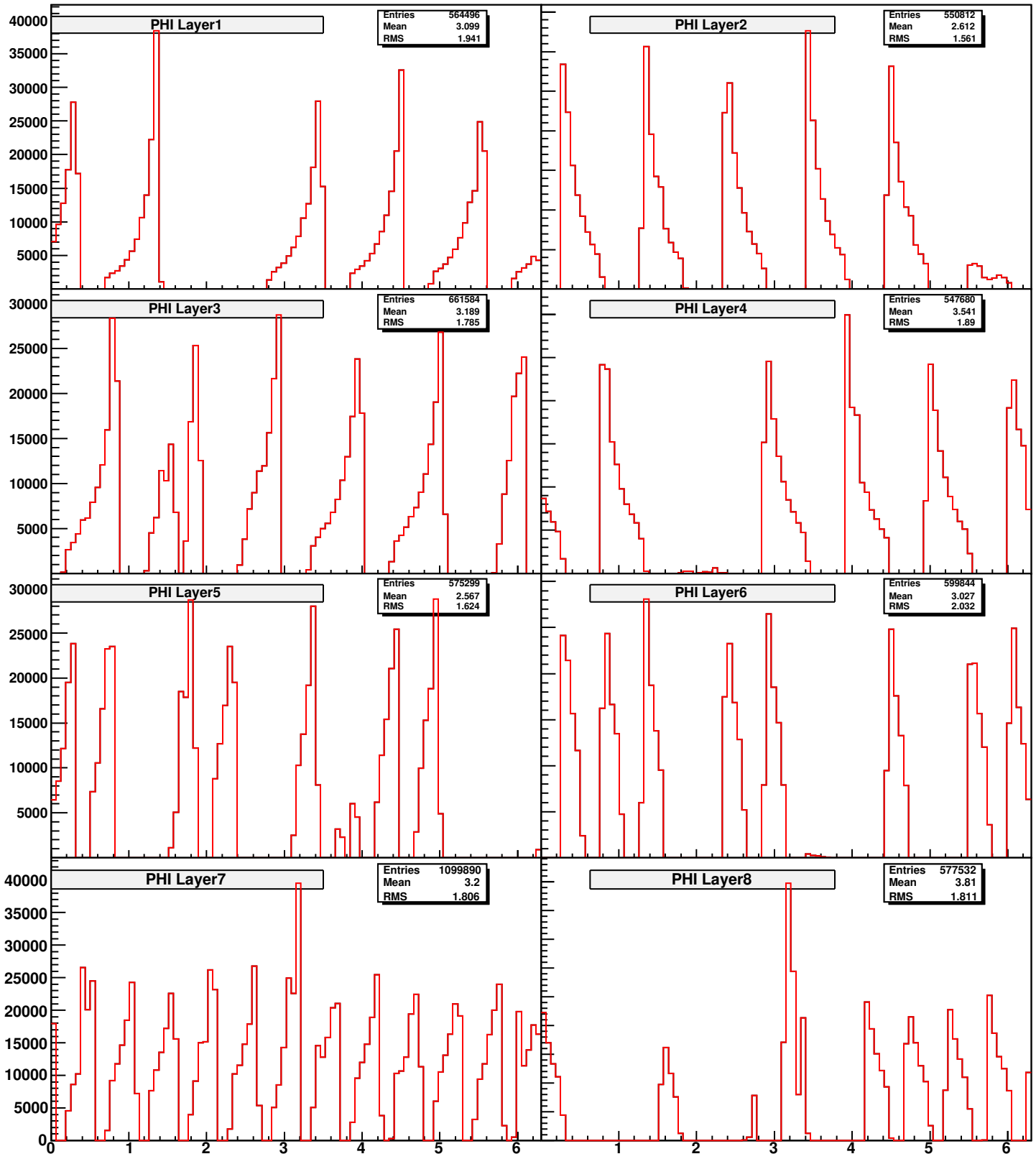
SmtClusters (ClustrBar2)



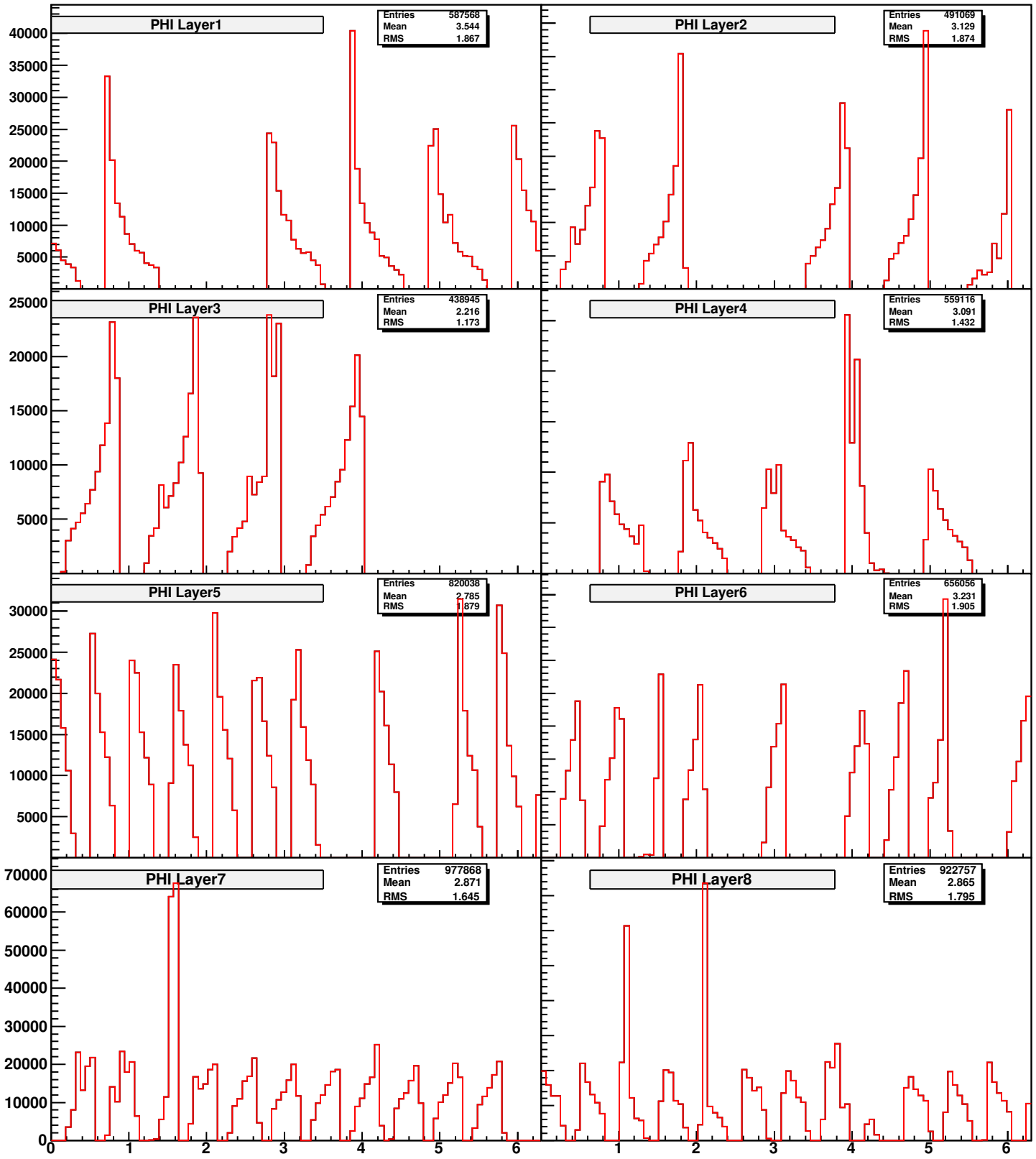
SmtClusters (ClustrBar3)



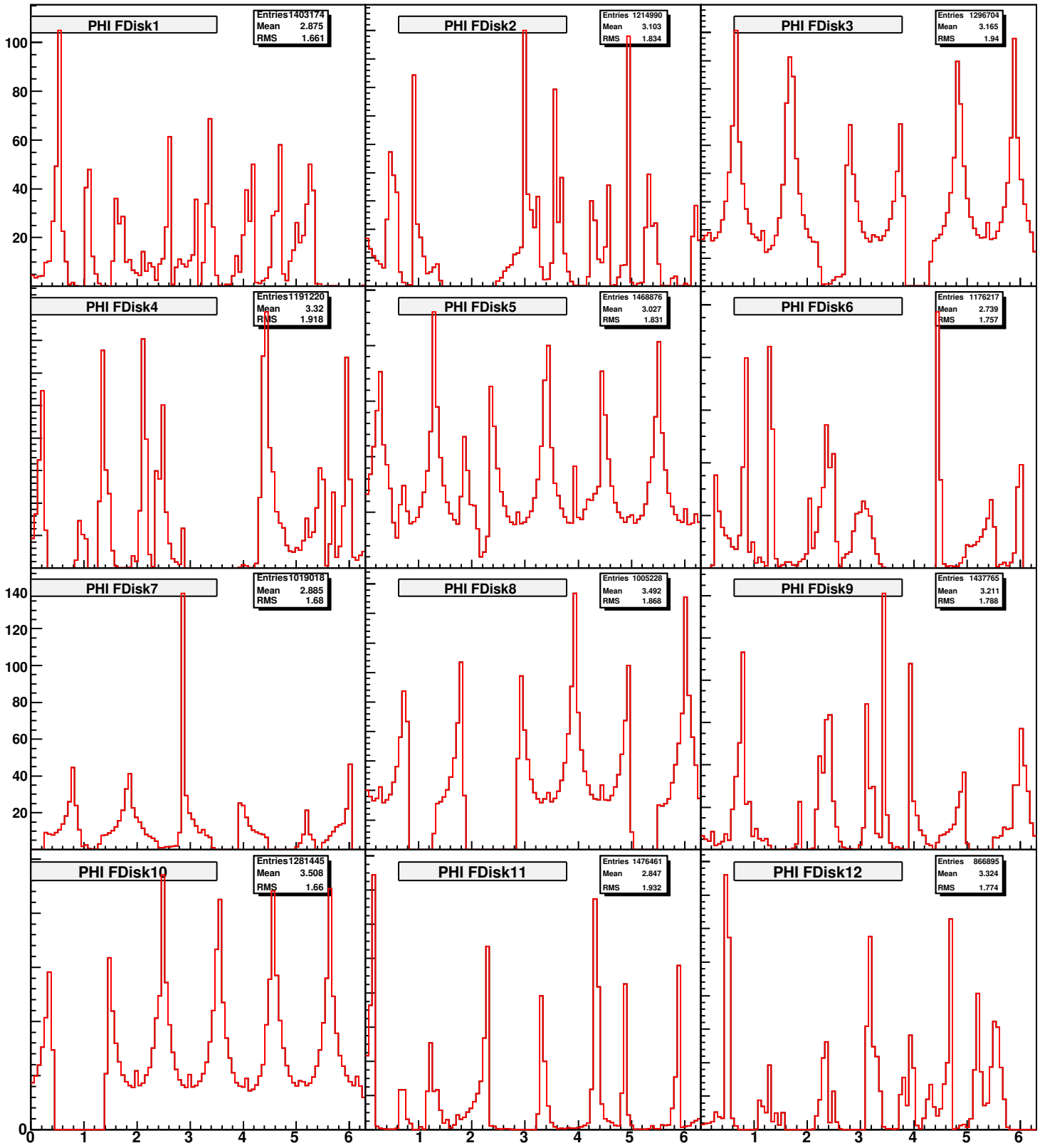
SmtClusters (ClustrBar4)



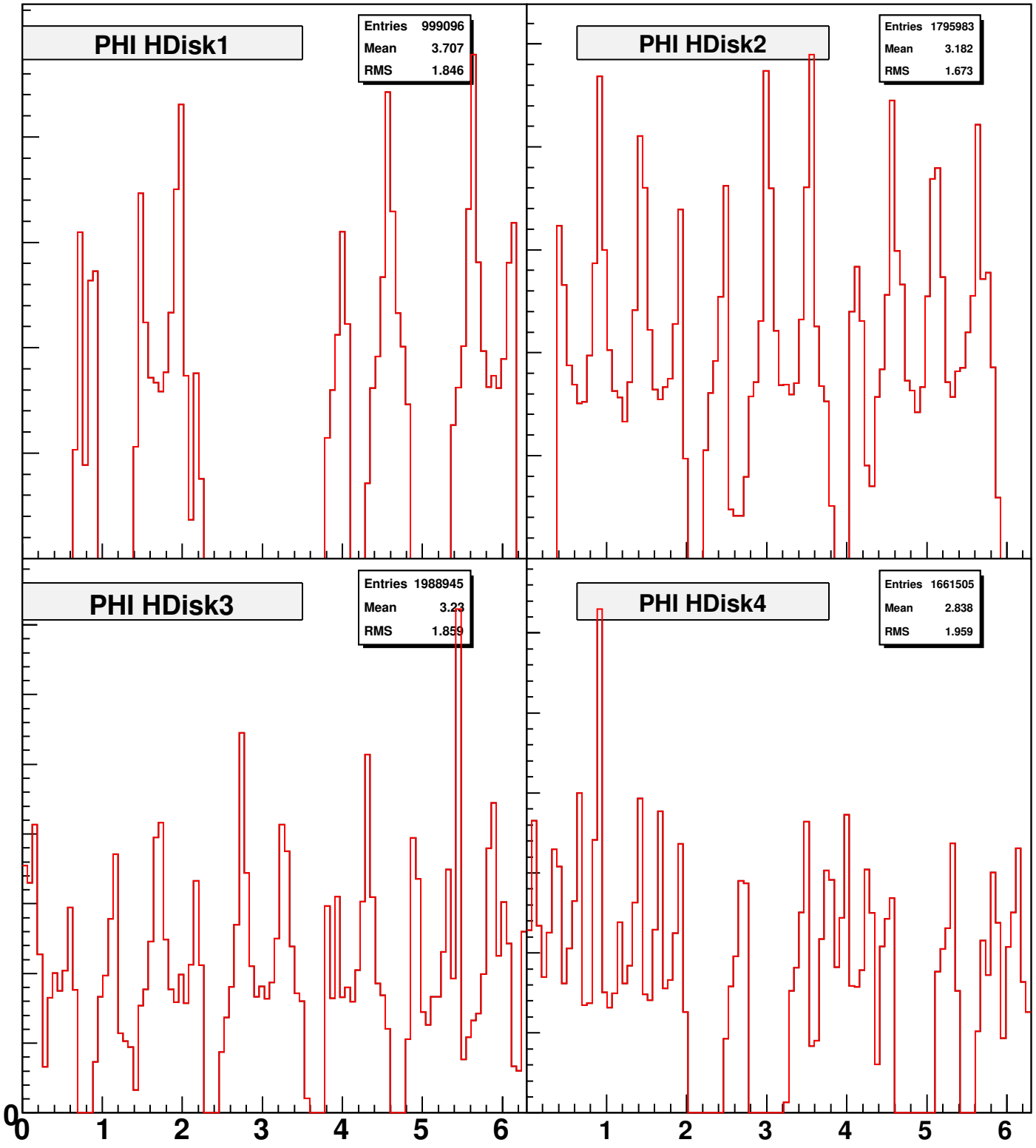
SmtClusters (ClustrBar5)

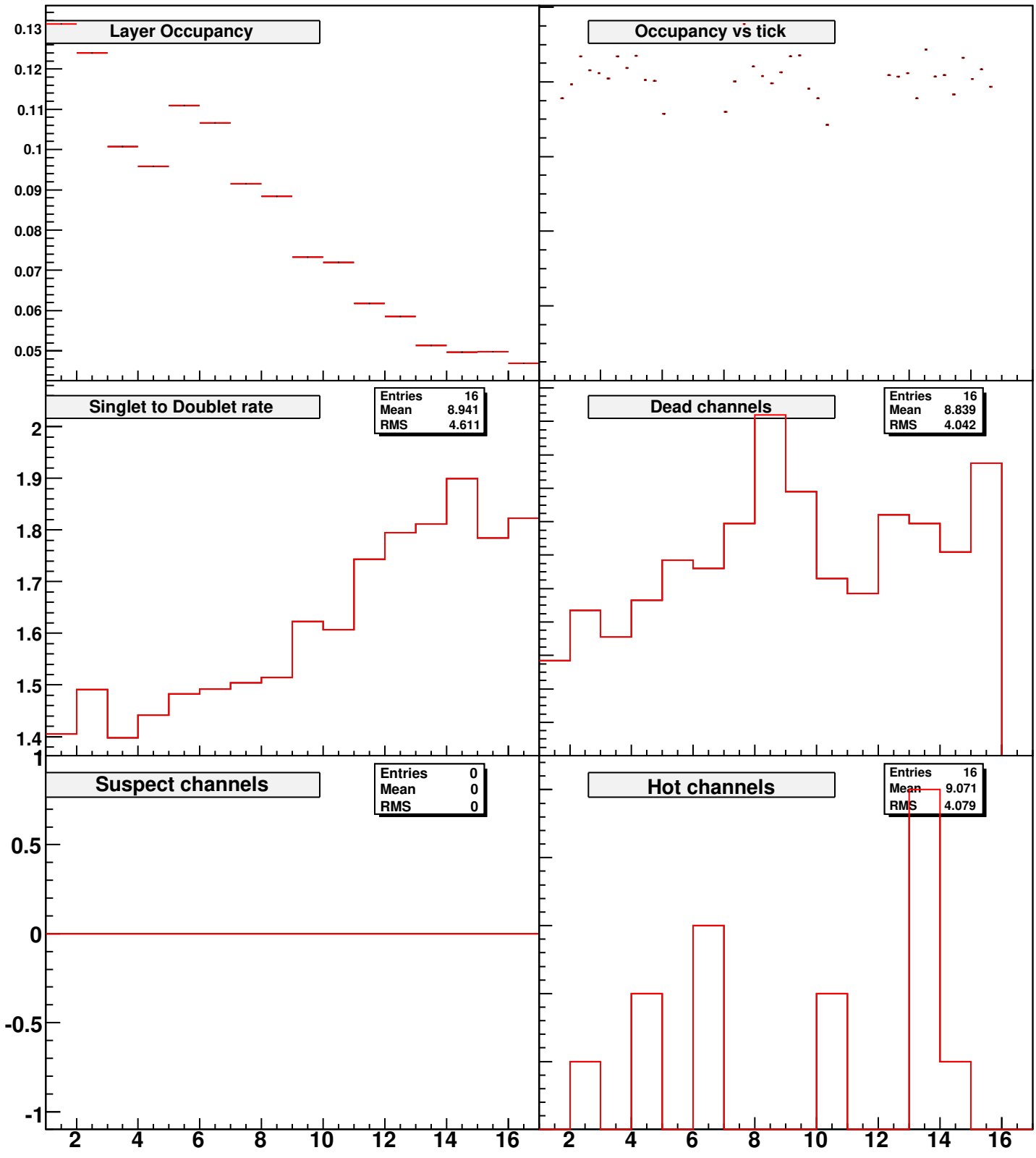


SmtClusters (ClustrBar6)

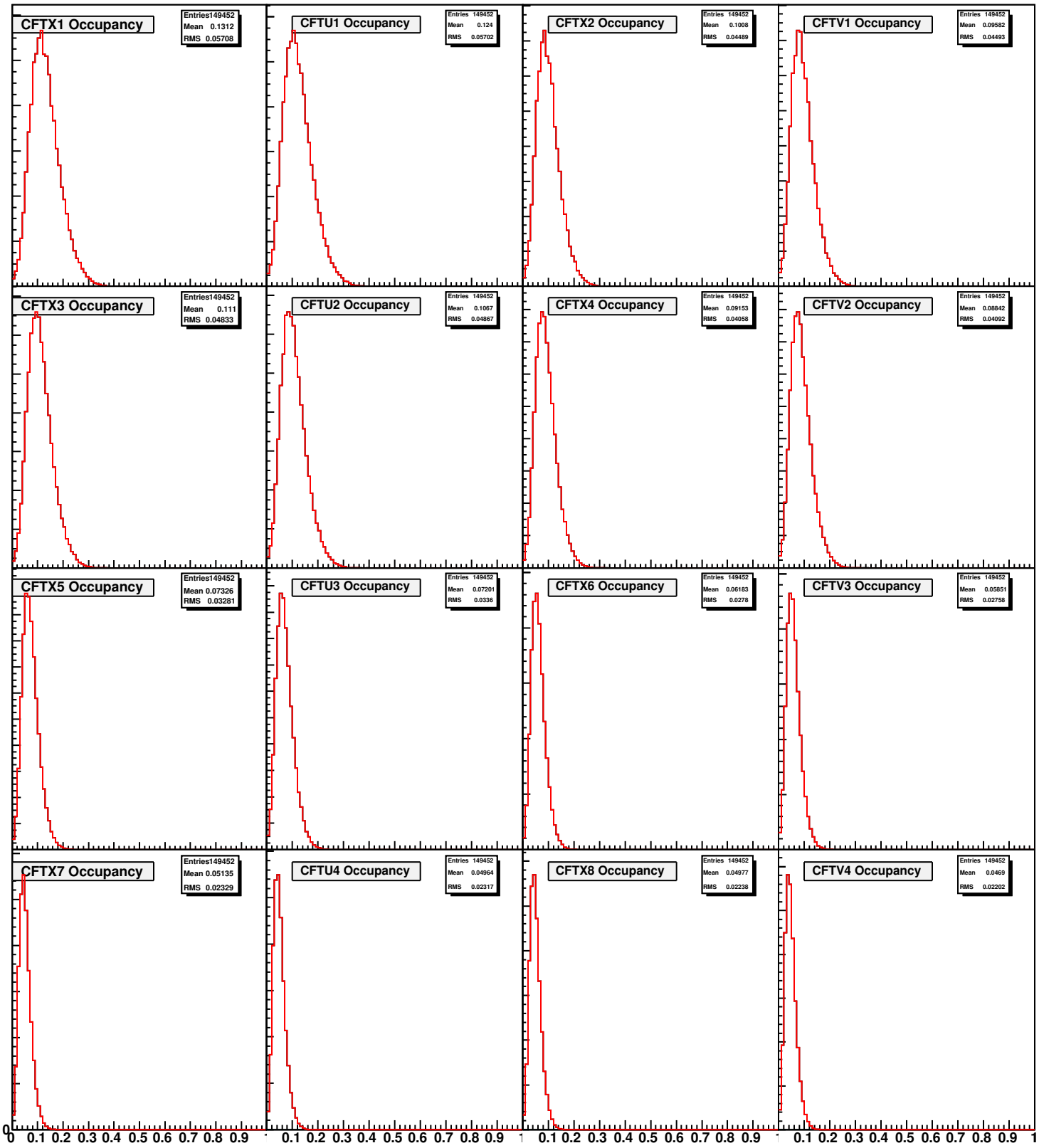


SmtClusters (FDiskClusters)

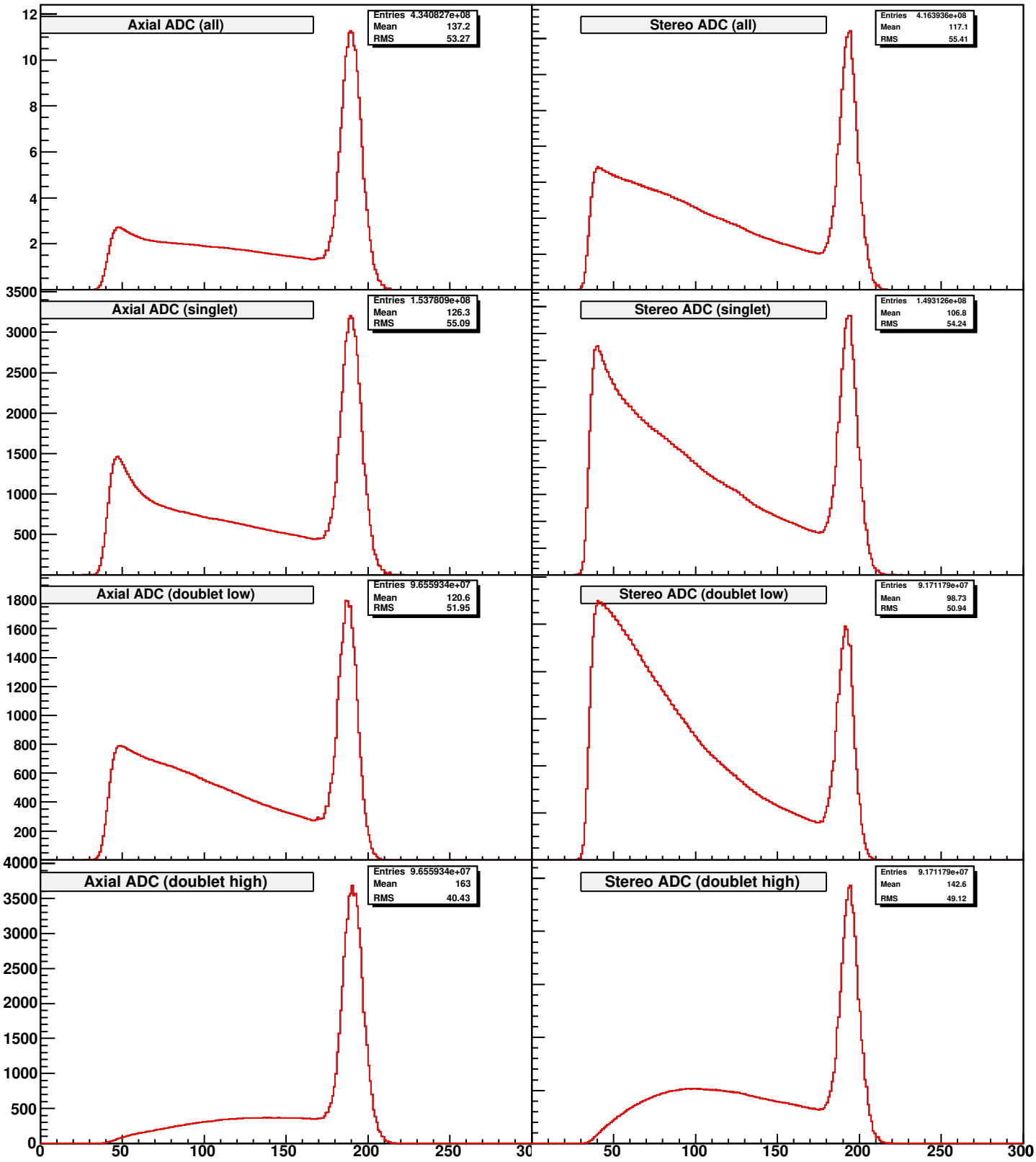

PHI HDisk1
Entries 999096
Mean 3.707
RMS 1.846
PHI HDisk2
Entries 1795983
Mean 3.182
RMS 1.673
PHI HDisk3
Entries 1988945
Mean 3.23
RMS 1.859
PHI HDisk4
Entries 1661505
Mean 2.838
RMS 1.959
0
0
1
2
3
4
5
6
1
2
3
4
5
6
SmtClusters (HDiskClusters)



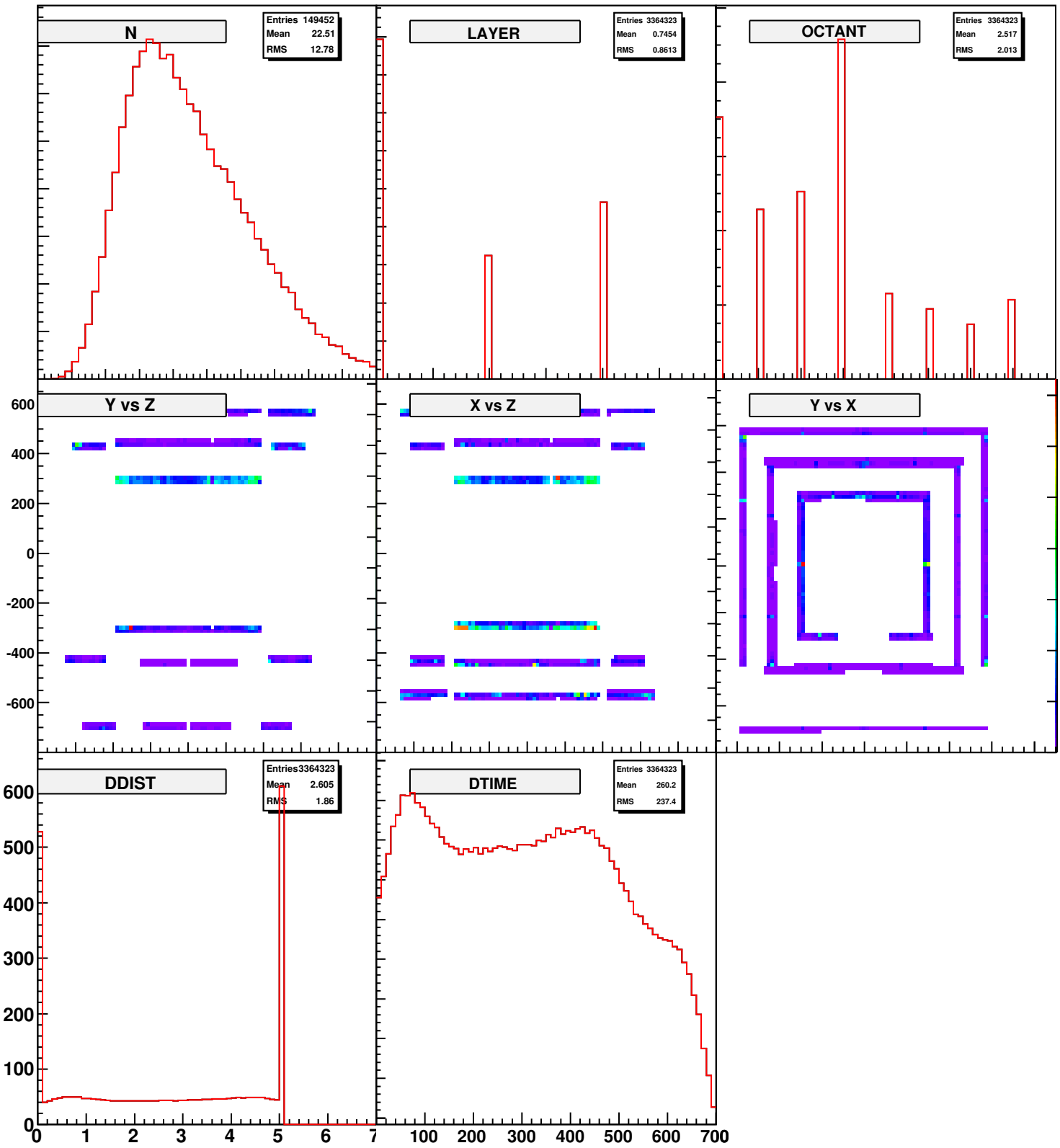
CFT Summary (All Clusters)



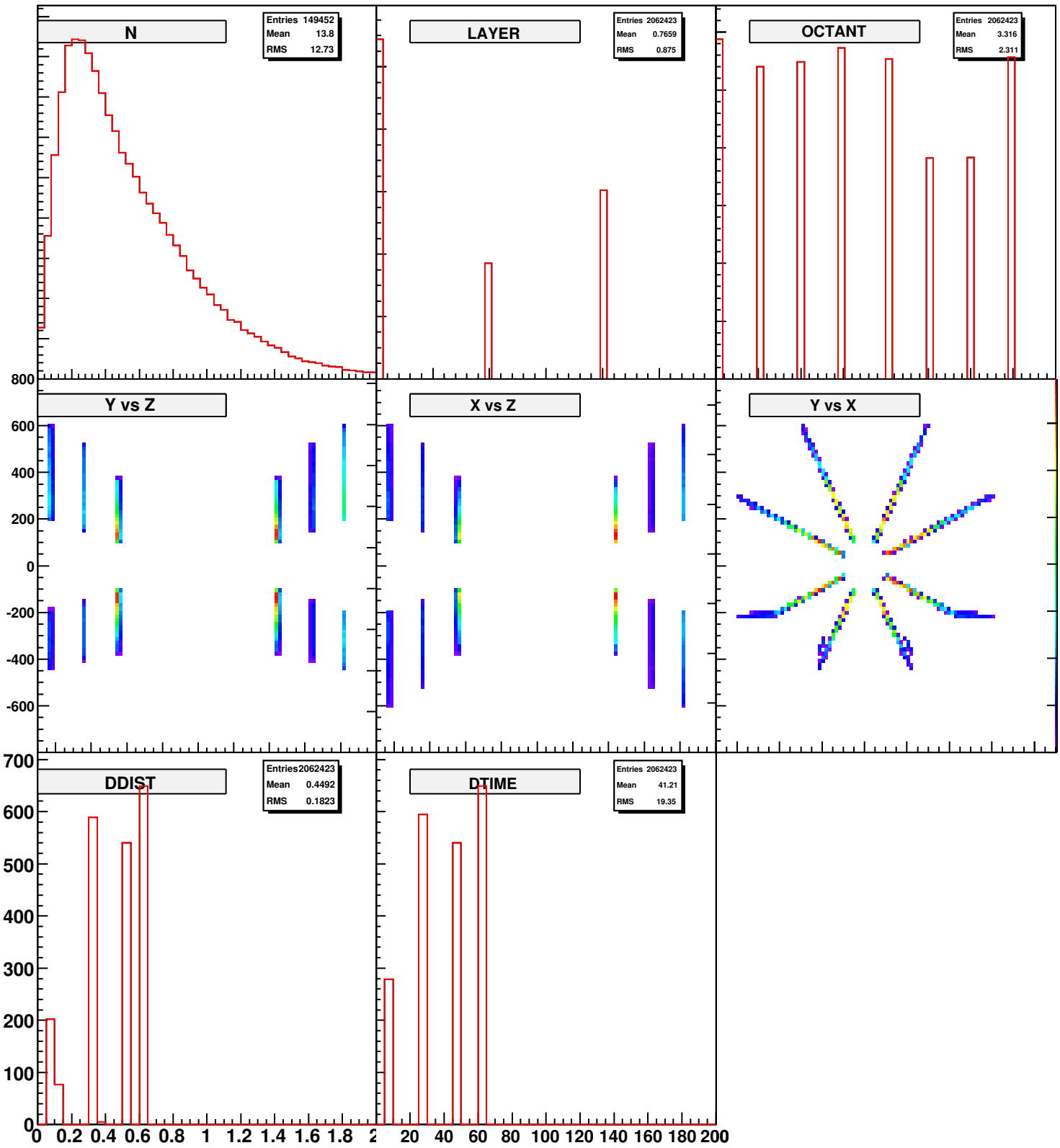
CFT Occupancy (All Clusters)



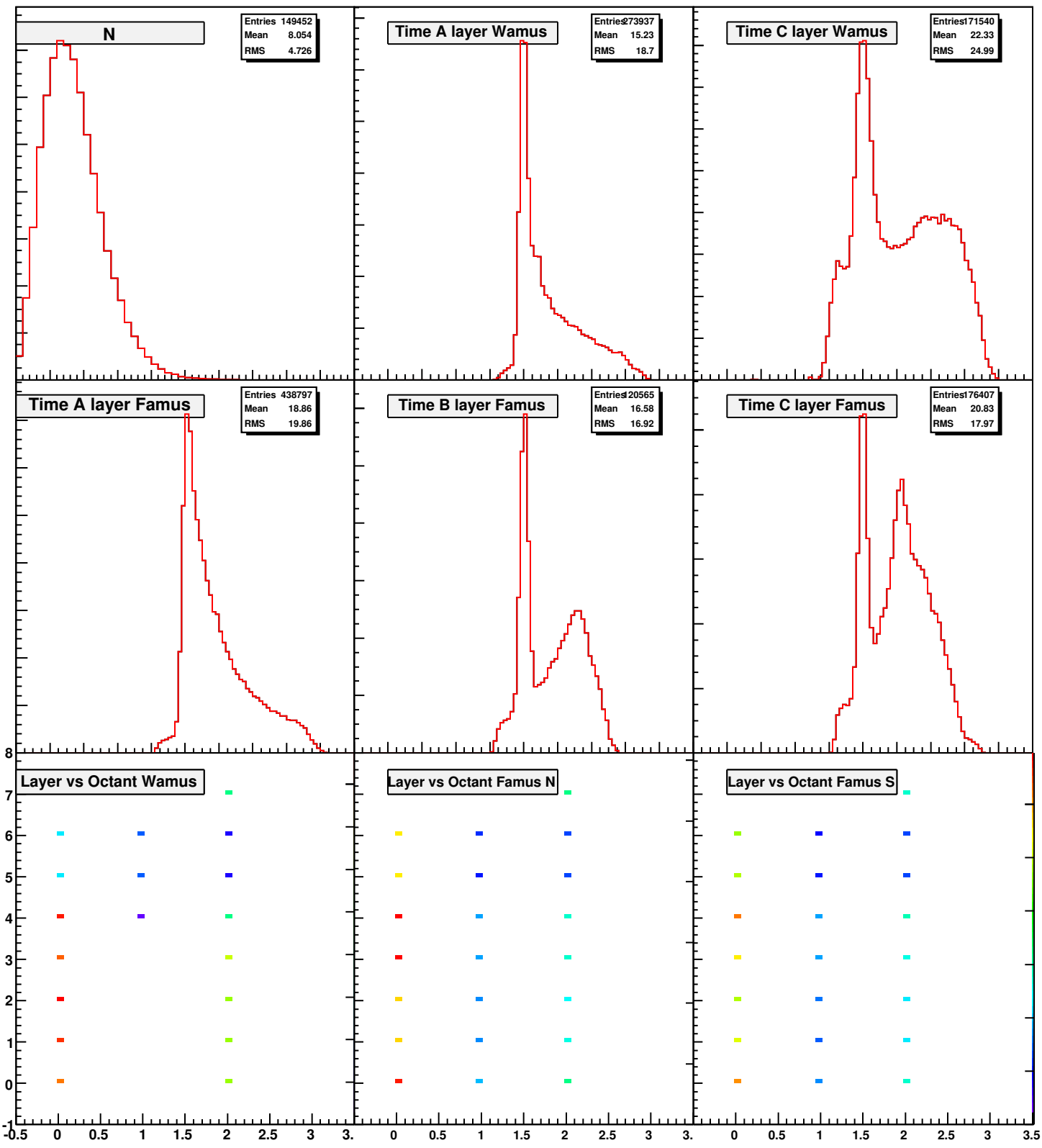
CFT ADC Summary (All Clusters)


N
Entries 149452
Mean 22.51
RMS 12.78
LAYER
Entries 3364323
Mean 0.7454
RMS 0.8613
OCTANT
Entries 3364323
Mean 2.517
RMS 2.013
Y vs Z
X vs Z
Y vs X
DDIST
Entries 3364323
Mean 2.605
RMS 1.86
DTIME
Entries 3364323
Mean 260.2
RMS 237.4

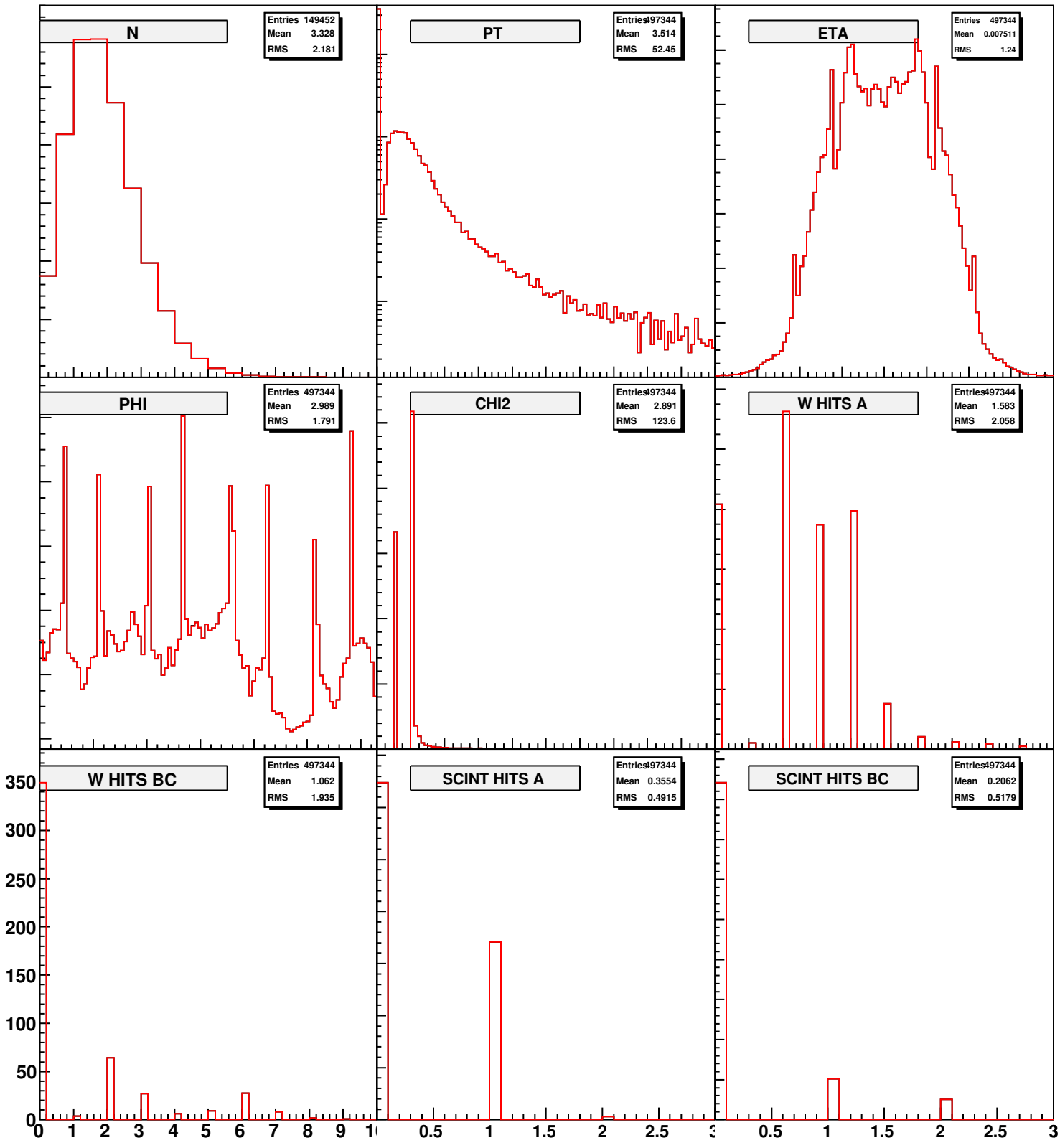
MuonPDT (All)


N
Entries 149452
Mean 13.8
RMS 12.73
LAYER
Entries 2062423
Mean 0.7659
RMS 0.875
OCTANT
Entries 2062423
Mean 3.316
RMS 2.311
Y vs Z
X vs Z
Y vs X
DDIST
Entries 2062423
Mean 0.4492
RMS 0.1823
DTIME
Entries 2062423
Mean 41.21
RMS 19.35

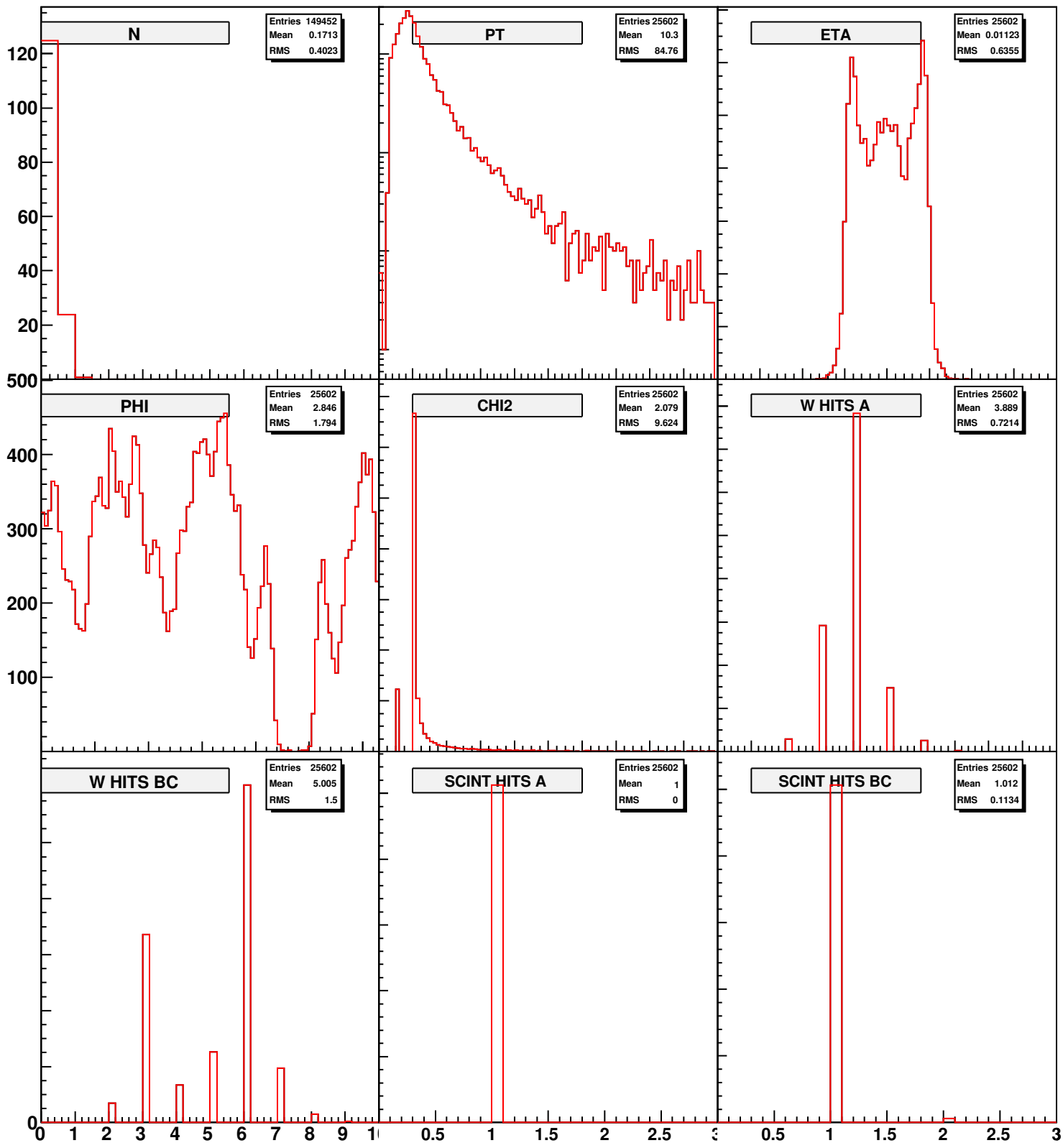
MuonMDT (All)


N
Entries 149452
Mean 8.054
RMS 4.726
Time A layer Wamus
Entries 273937
Mean 15.23
RMS 18.7
Time C layer Wamus
Entries 171540
Mean 22.33
RMS 24.99
Time A layer Famus
Entries 438797
Mean 18.86
RMS 19.86
Time B layer Famus
Entries 120565
Mean 16.58
RMS 16.92
Time C layer Famus
Entries 176407
Mean 20.83
RMS 17.97
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

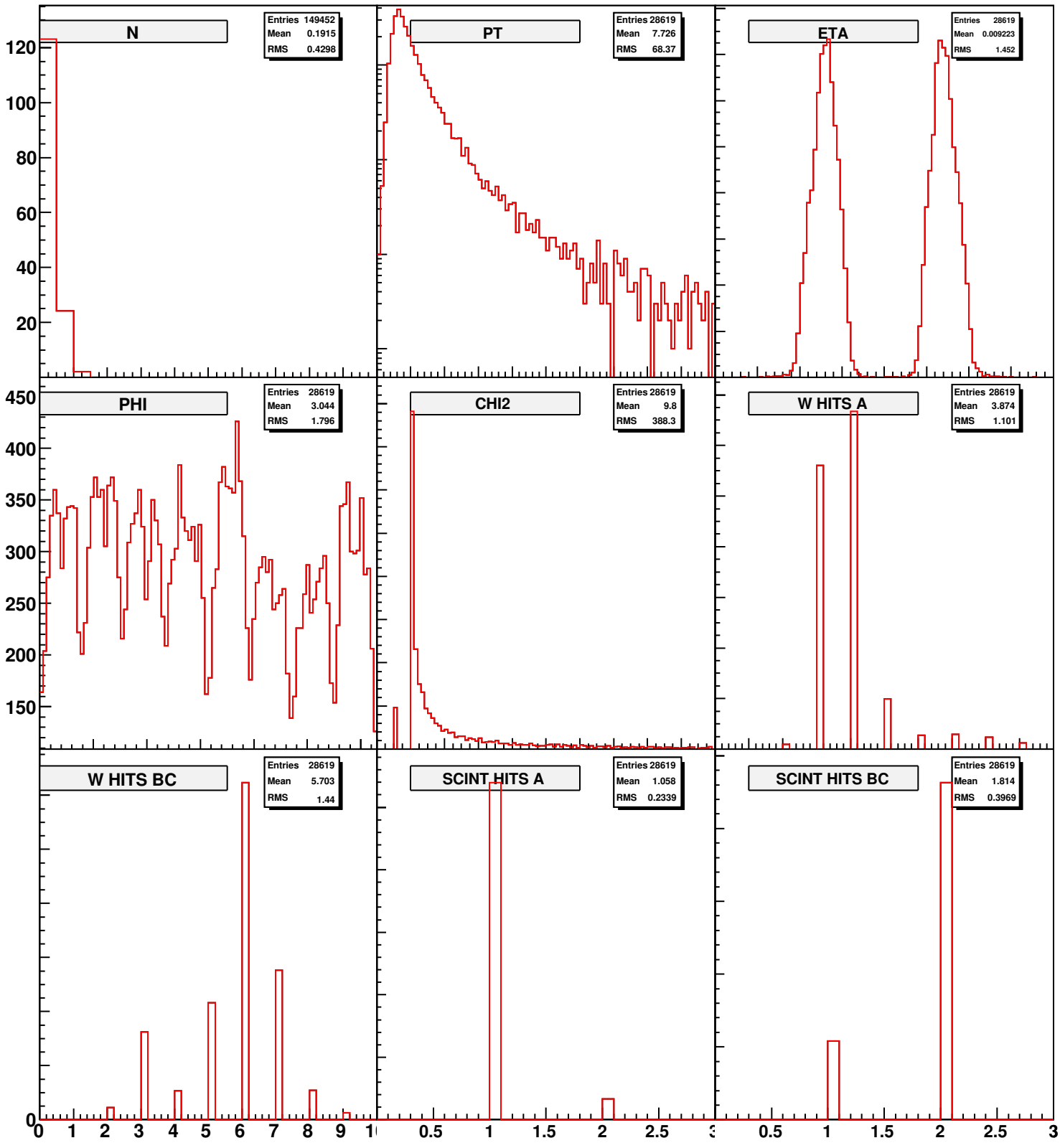
MuonMSC (All)



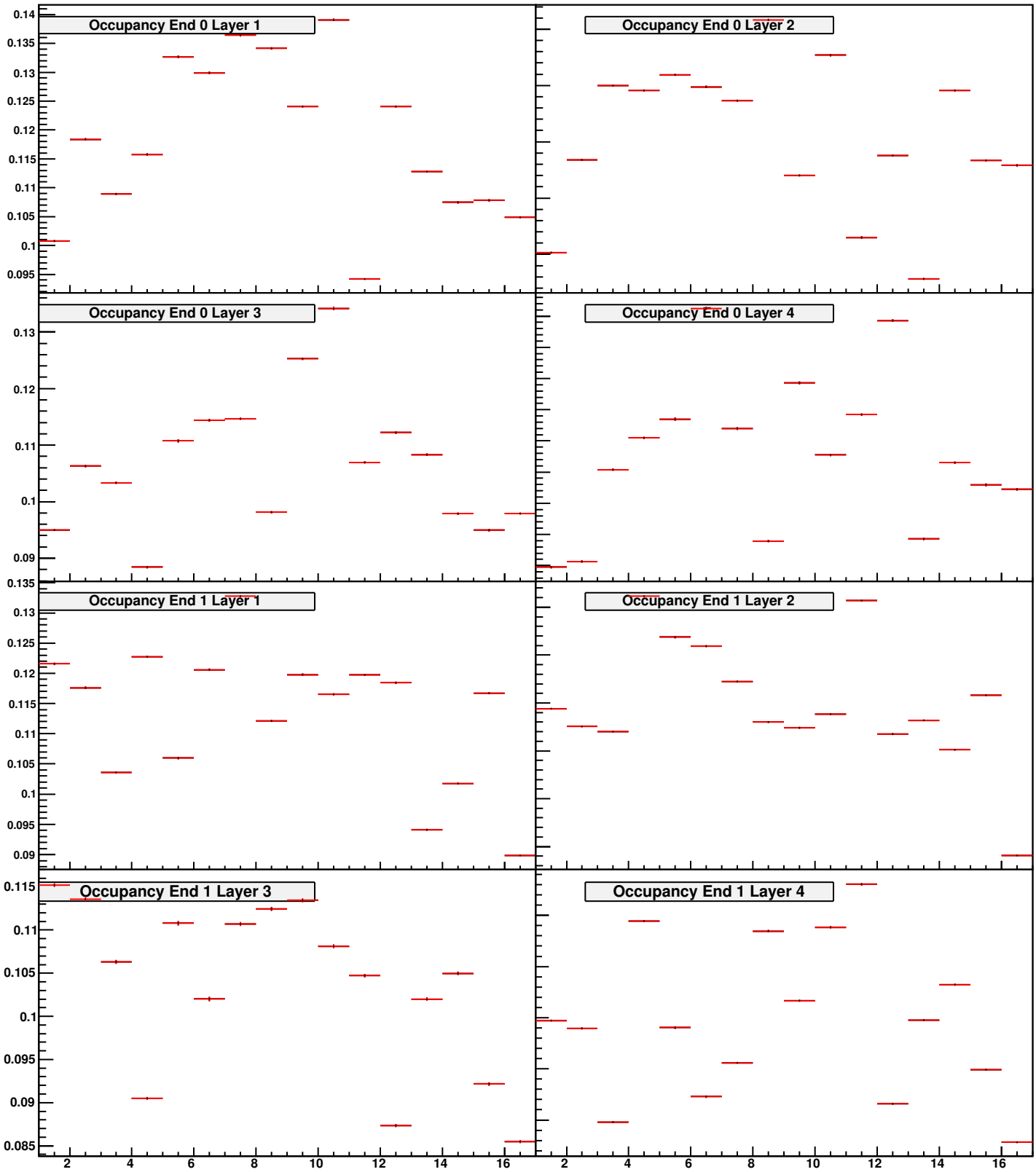
Muon Local Tracks (All)



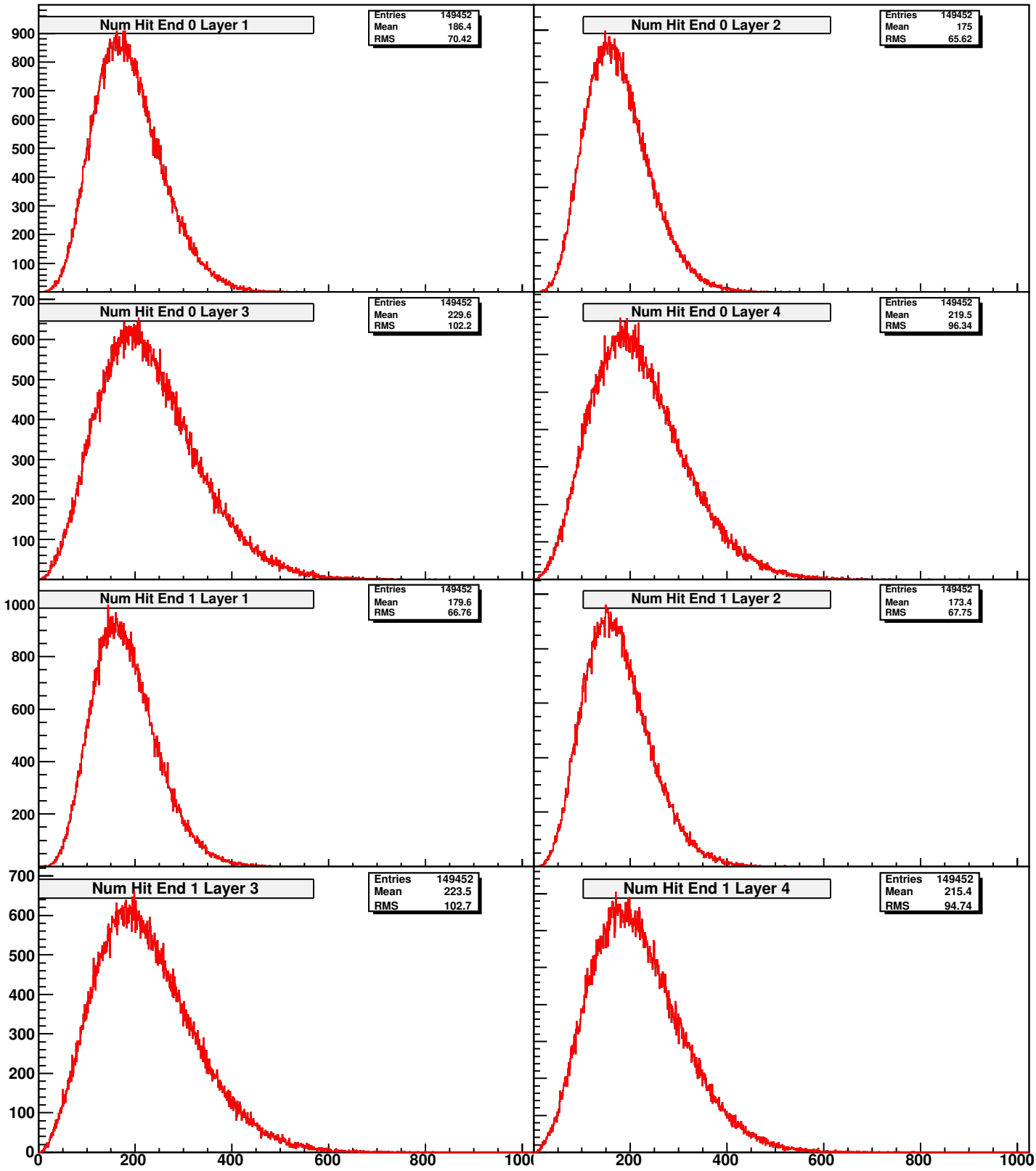
Muon Local Tracks (MediumWamus)



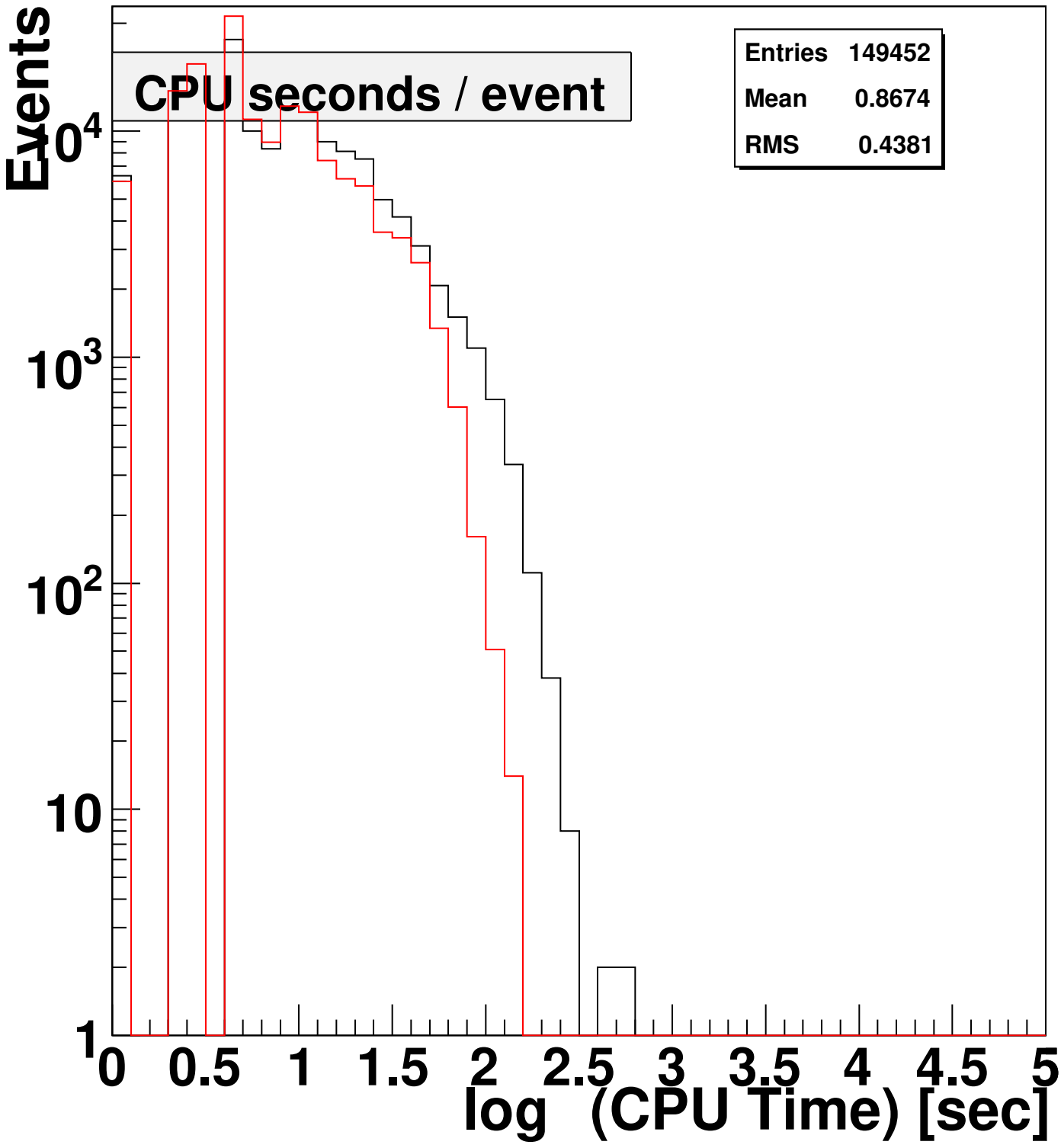
Muon Local Tracks (MediumFamus)



FPS Hit Occupancy (All)



FPS Number of Hits (All)



RECO Performance (Timing)