jpsi_unfixed/RecoCert.root
jpsi_fixed/RecoCert.root

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)
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Page 18: Jets (Cone R 0.7 (standard cuts))
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Page 42: Smt Track Clusters (allHDiskTClusters)
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Page 53: Muon Local Tracks (MediumWamus)
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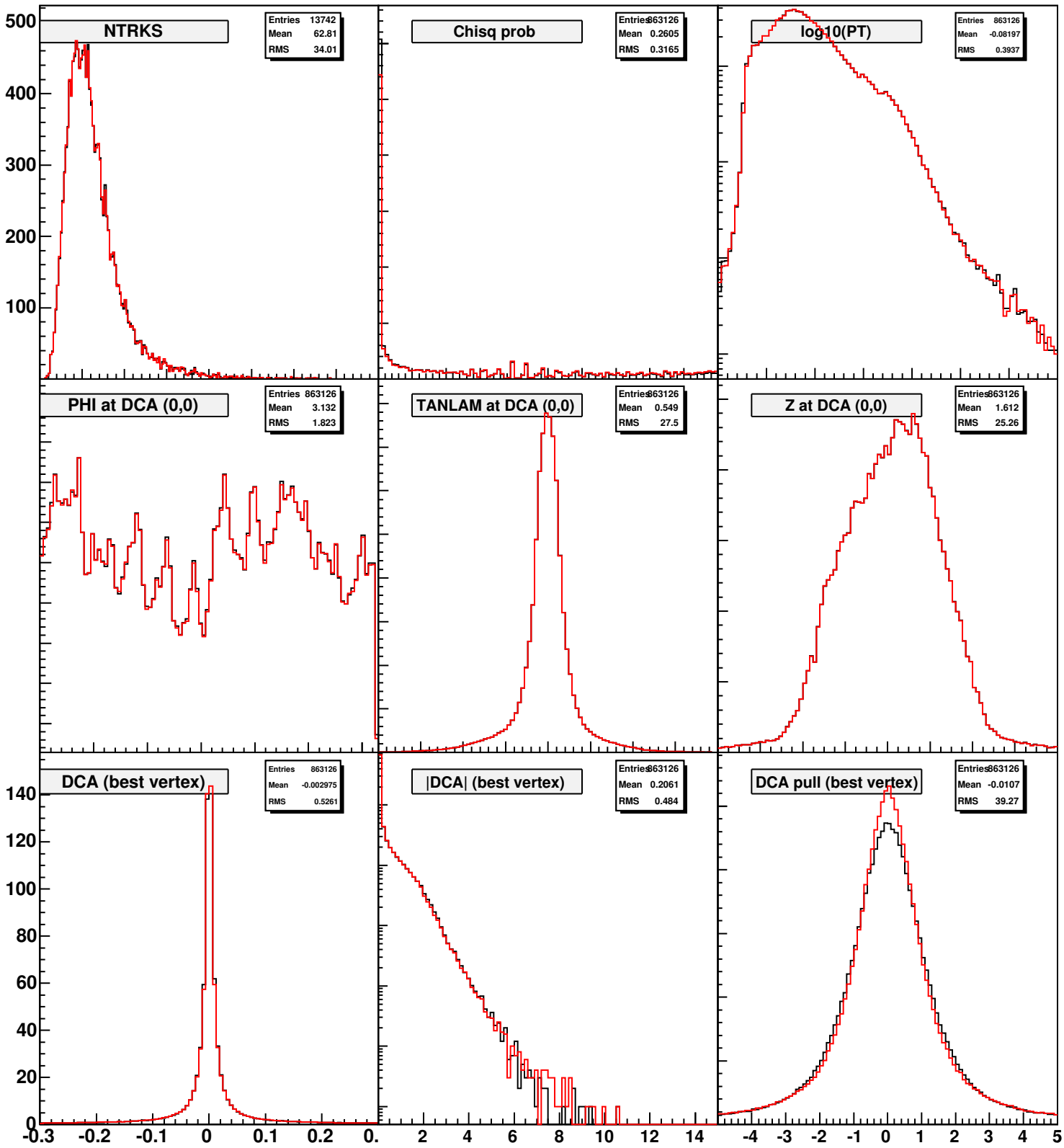
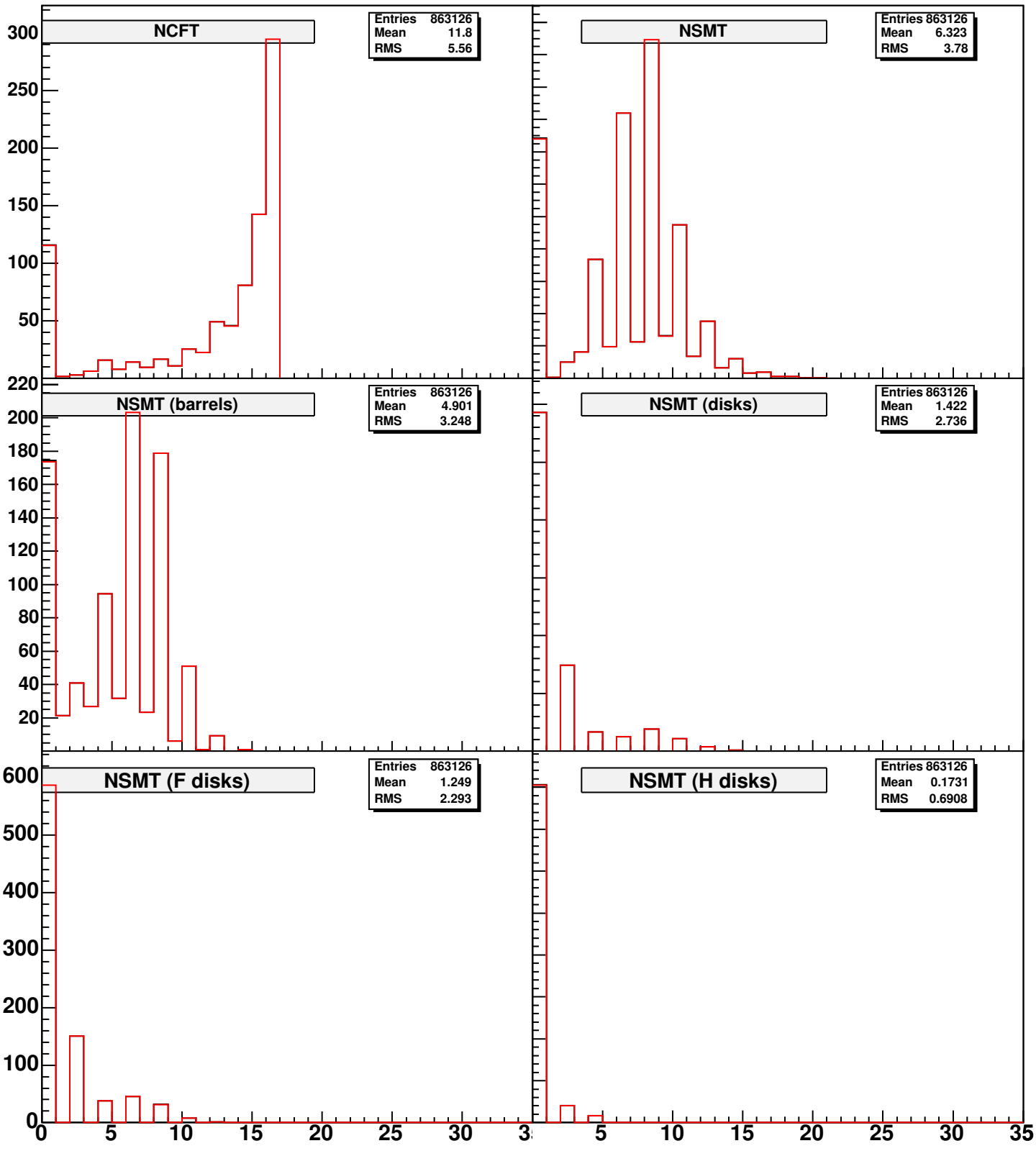
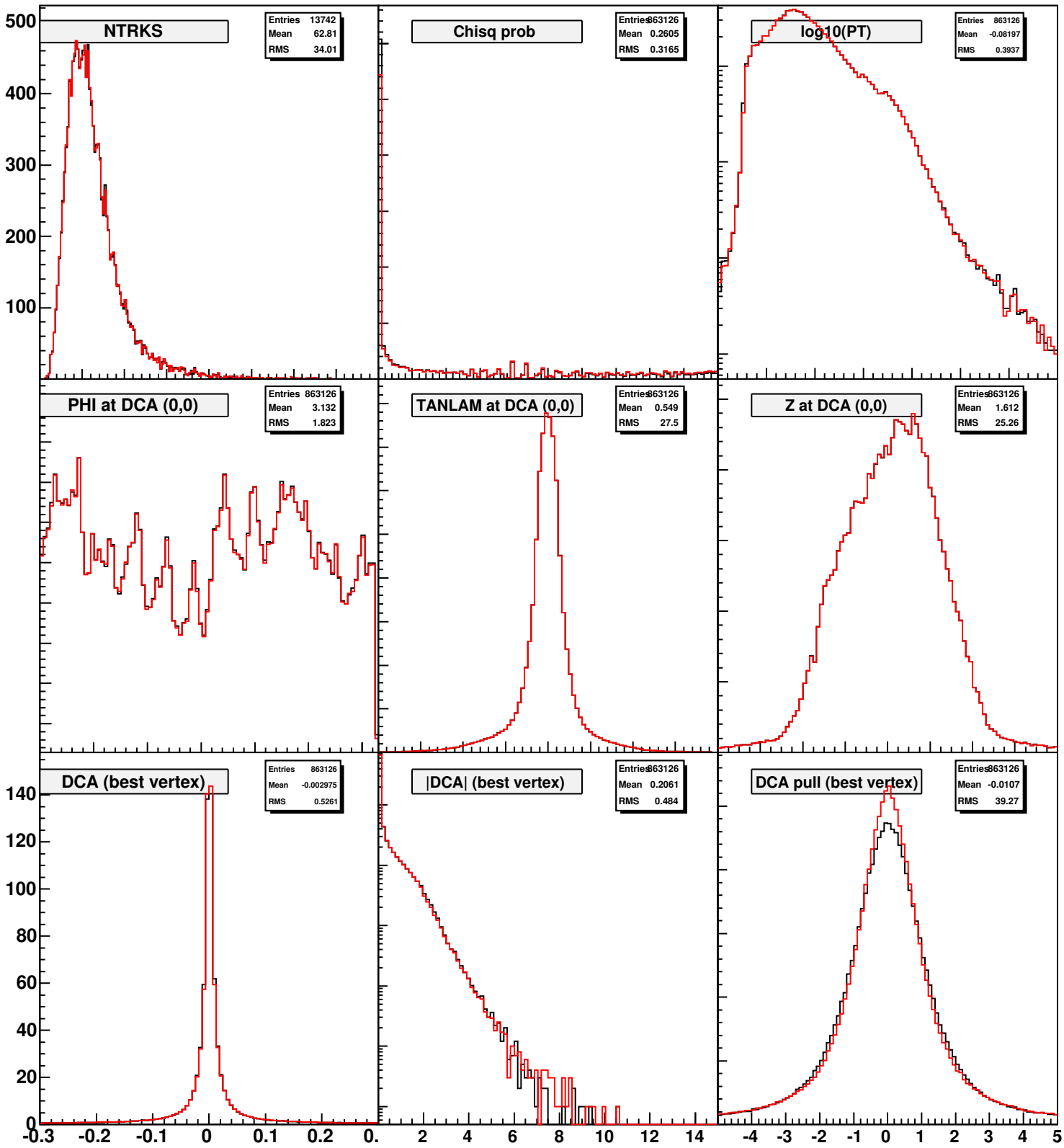
RecoCert_Plots (Index)

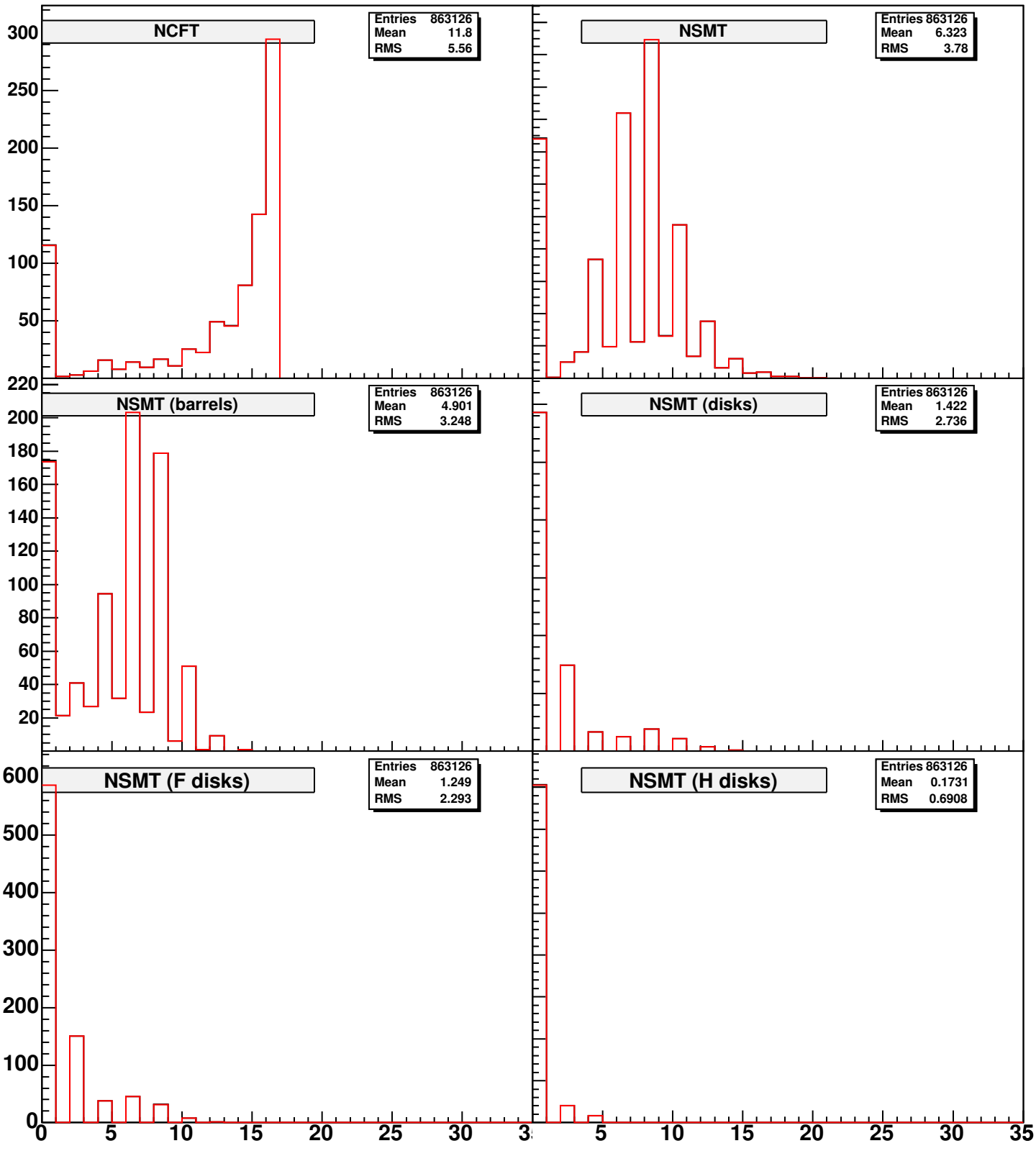

NTRKS
Entries 13742
Mean 62.81
RMS 34.01
Chisq prob
Entries 863126
Mean 0.2605
RMS 0.3165
log10(PT)
Entries 863126
Mean -0.08197
RMS 0.3937
PHI at DCA (0,0)
Entries 863126
Mean 3.132
RMS 1.823
TANLAM at DCA (0,0)
Entries 863126
Mean 0.549
RMS 27.5
Z at DCA (0,0)
Entries 863126
Mean 1.612
RMS 25.26
DCA (best vertex)
Entries 863126
Mean -0.002975
RMS 0.5261
|DCA| (best vertex)
Entries 863126
Mean 0.2061
RMS 0.484
DCA pull (best vertex)
Entries 863126
Mean -0.0107
RMS 39.27

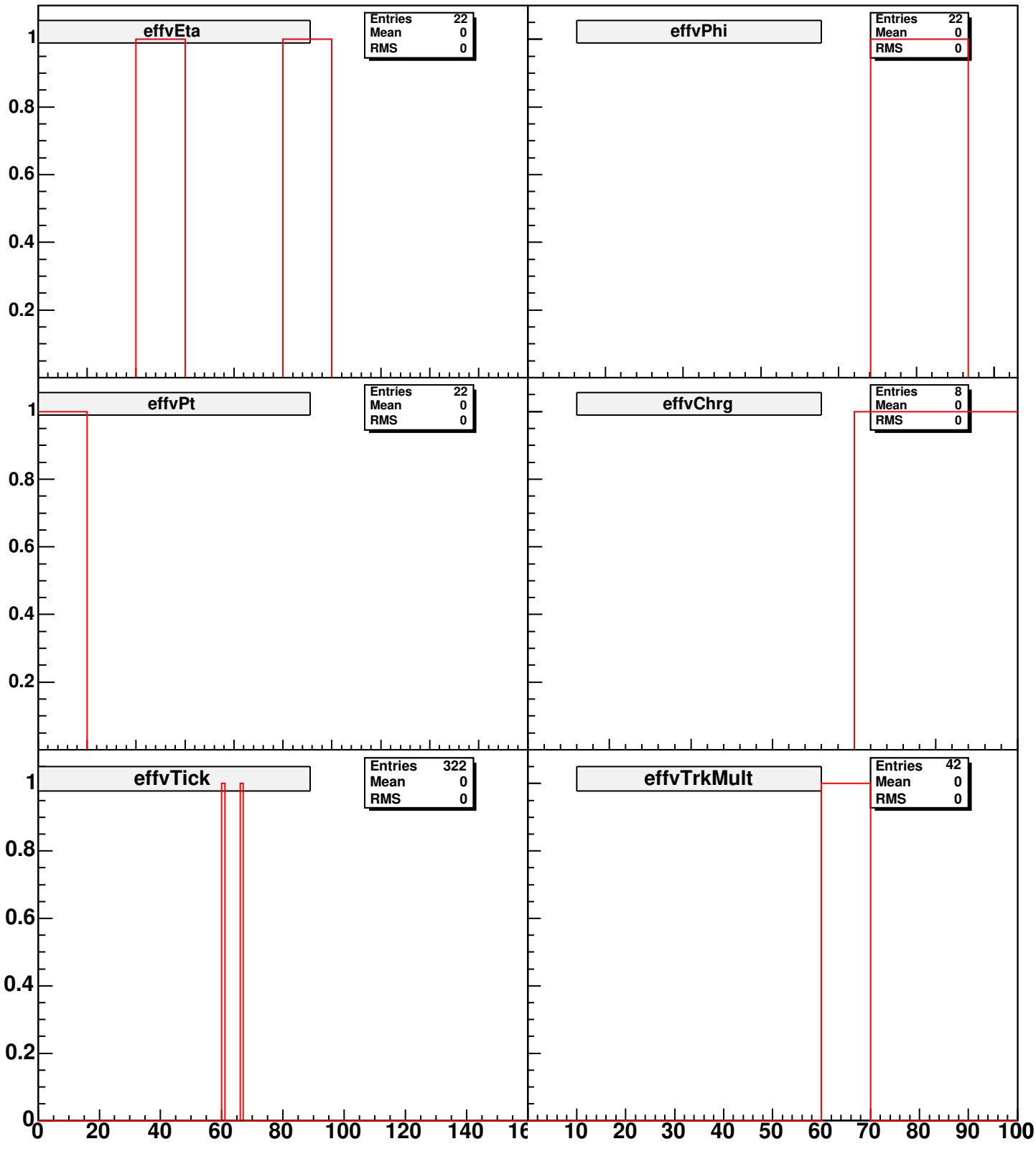
Tracks (All)


NCFT
Entries 863126
Mean 11.8
RMS 5.56
NSMT
Entries 863126
Mean 6.323
RMS 3.78
NSMT (barrels)
Entries 863126
Mean 4.901
RMS 3.248
NSMT (disks)
Entries 863126
Mean 1.422
RMS 2.736
NSMT (F disks)
Entries 863126
Mean 1.249
RMS 2.293
NSMT (H disks)
Entries 863126
Mean 0.1731
RMS 0.6908
Track Hits (All)

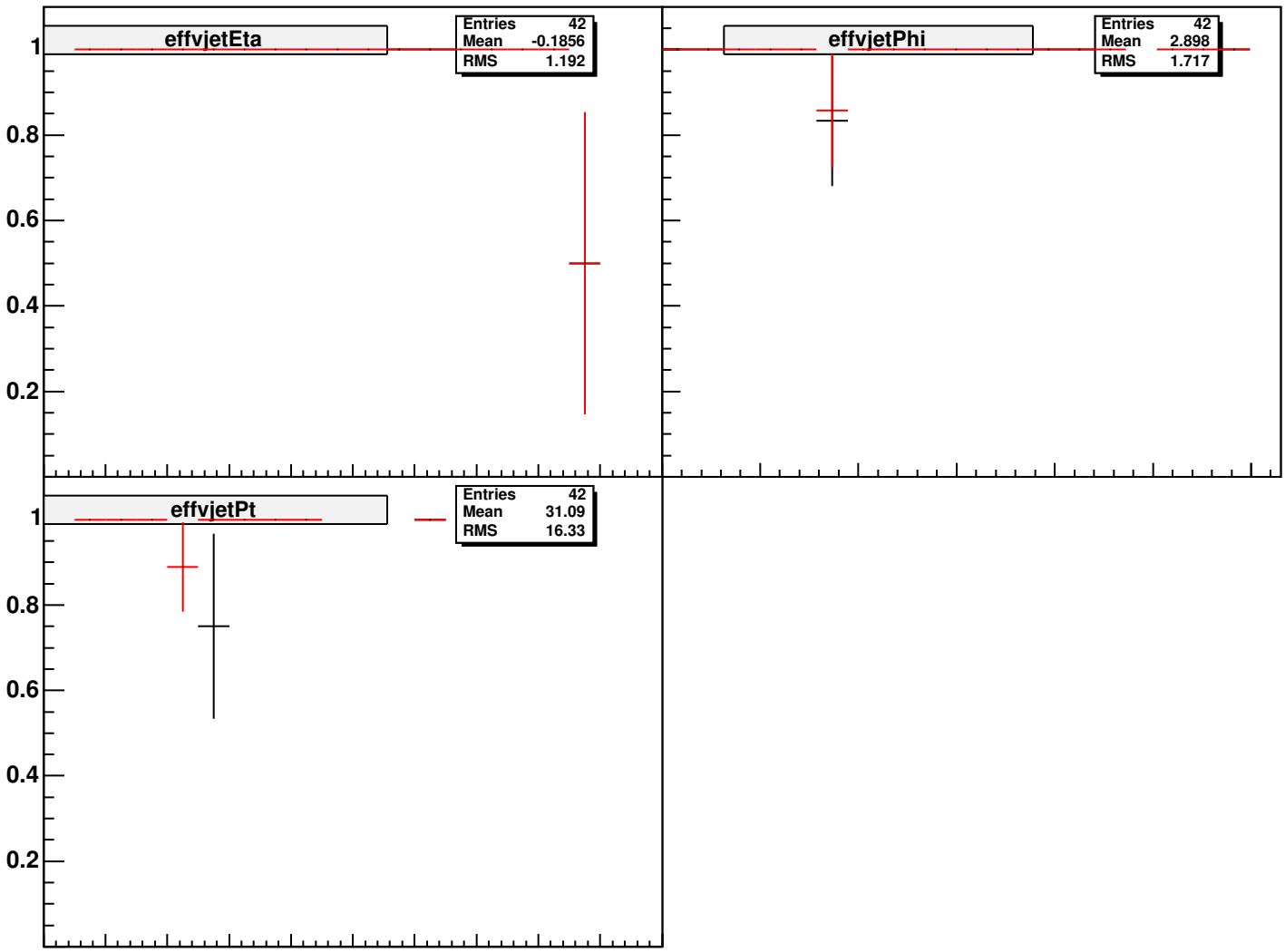


Tracks (Tight)

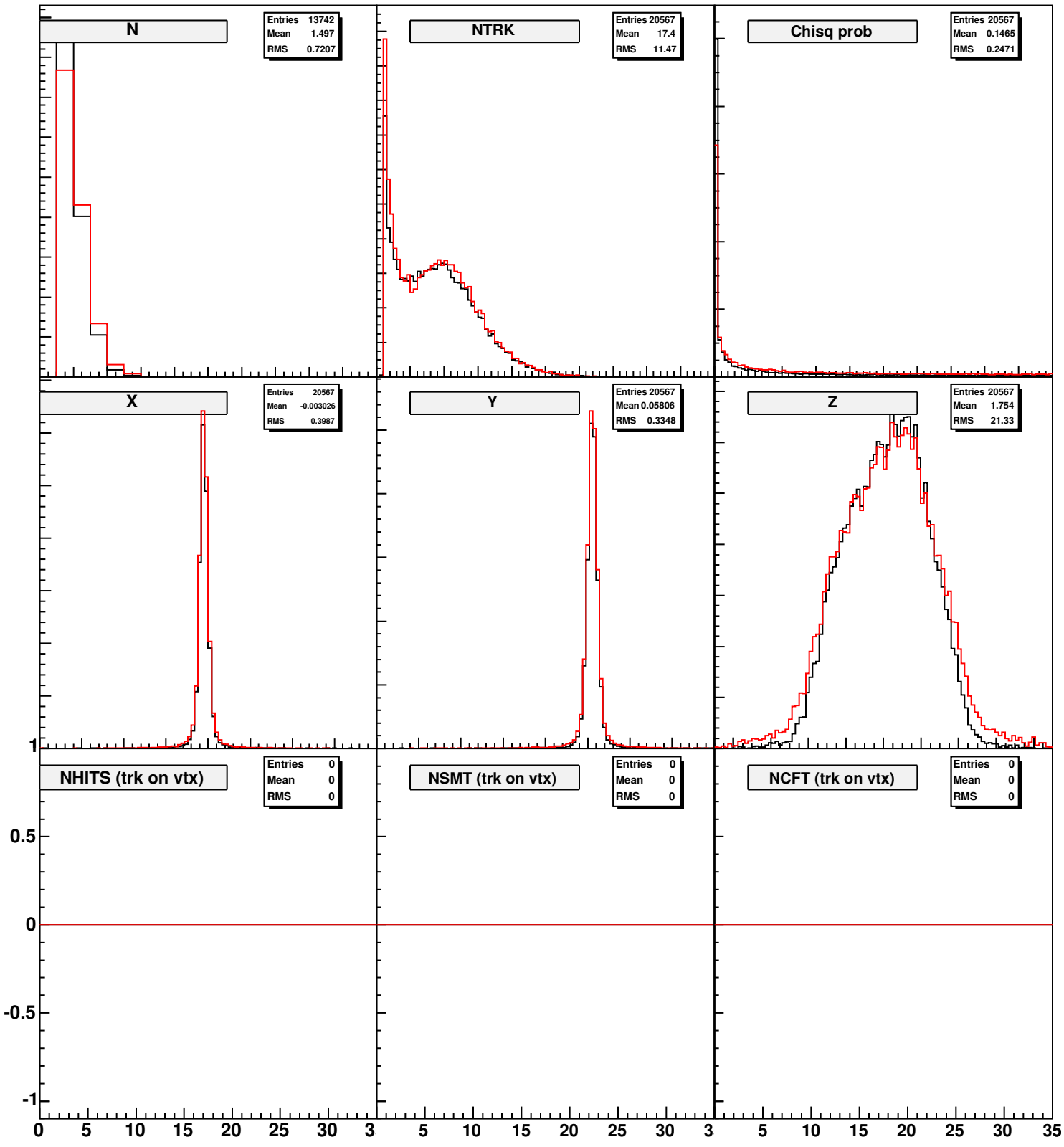

NCFT
Entries 863126
Mean 11.8
RMS 5.56
NSMT
Entries 863126
Mean 6.323
RMS 3.78
NSMT (barrels)
Entries 863126
Mean 4.901
RMS 3.248
NSMT (disks)
Entries 863126
Mean 1.422
RMS 2.736
NSMT (F disks)
Entries 863126
Mean 1.249
RMS 2.293
NSMT (H disks)
Entries 863126
Mean 0.1731
RMS 0.6908
Track Hits (Tight)



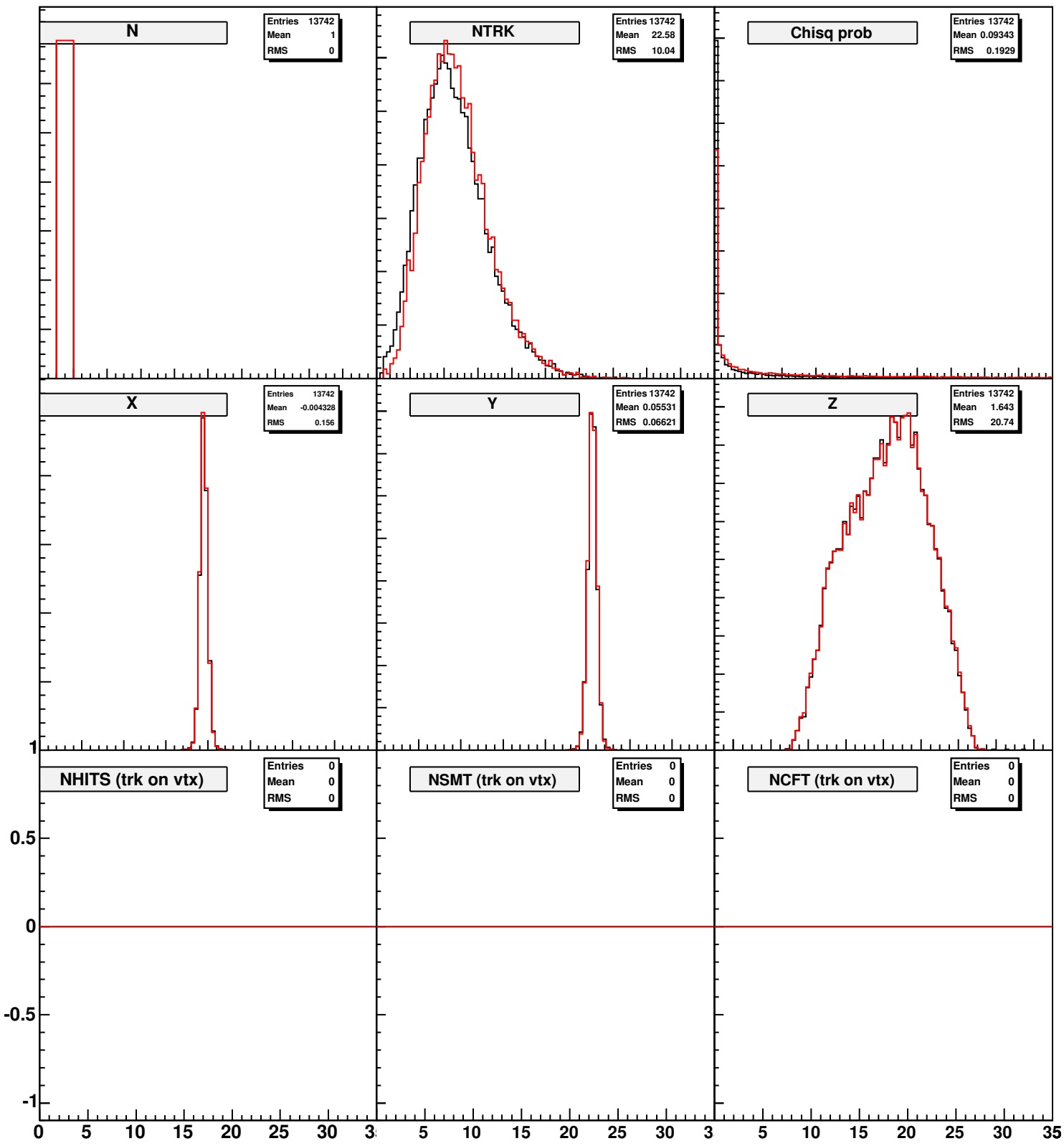
Tracking (Efficiency-Isolated)

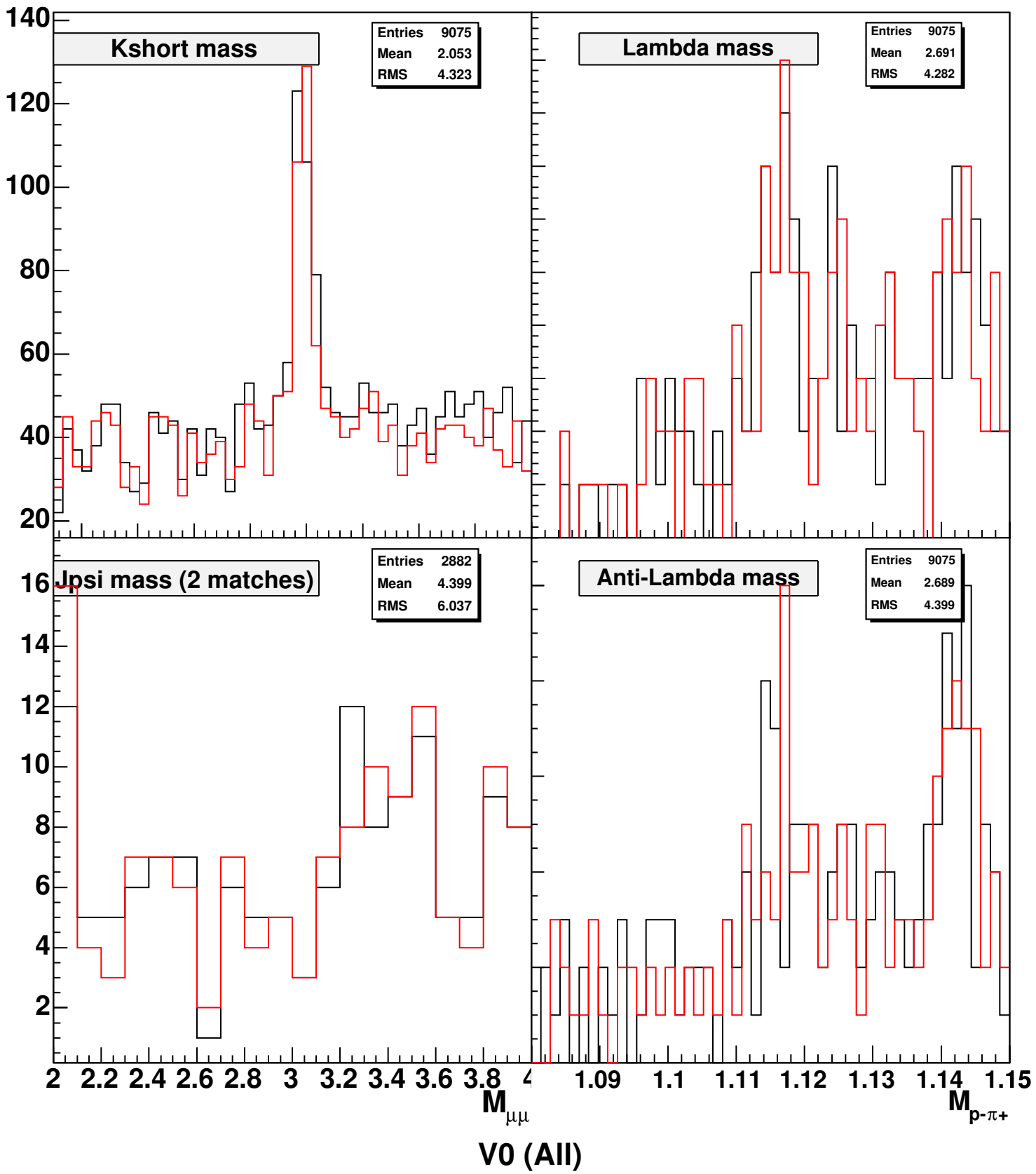


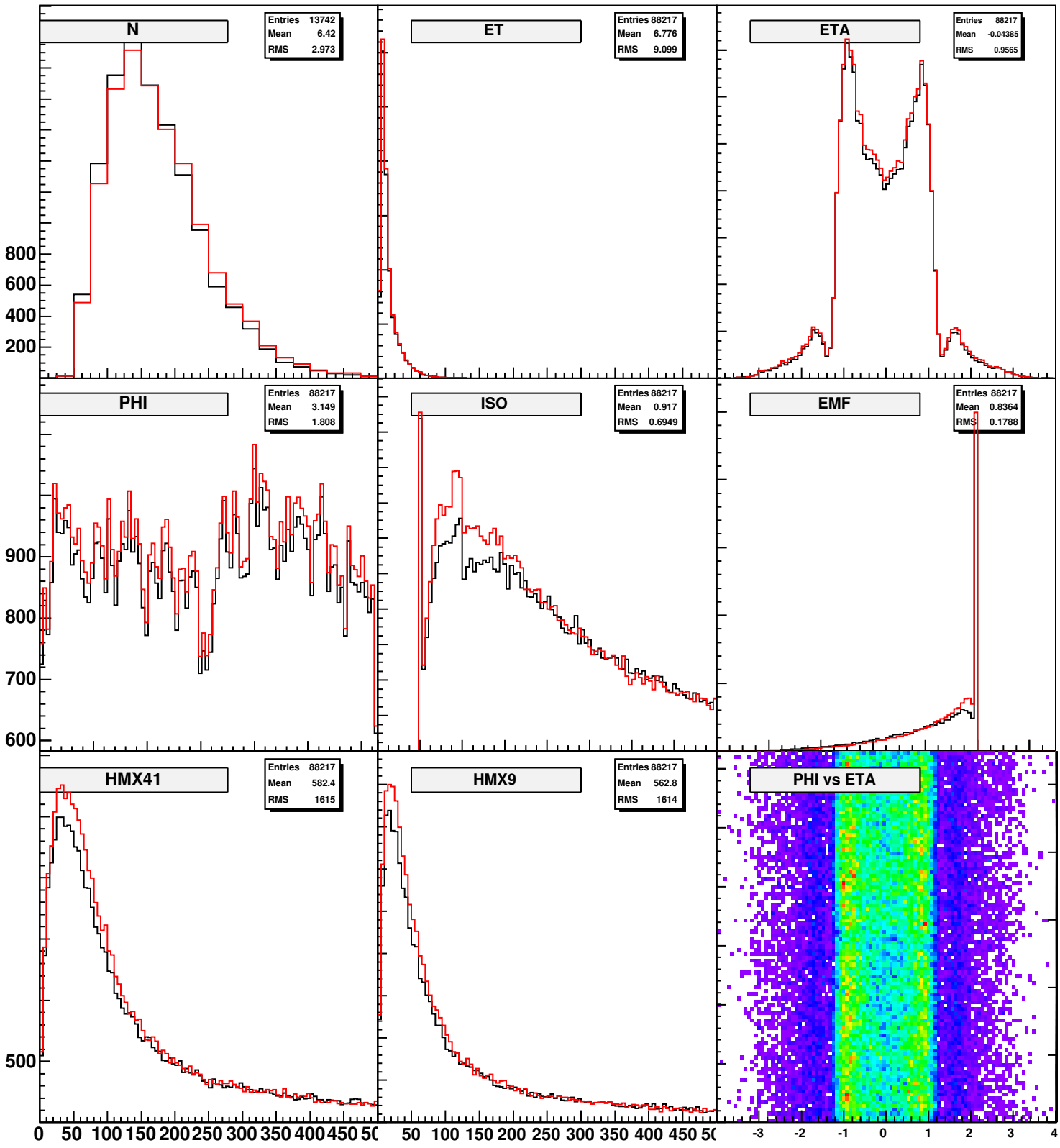
Tracking (Efficiency-InJets)



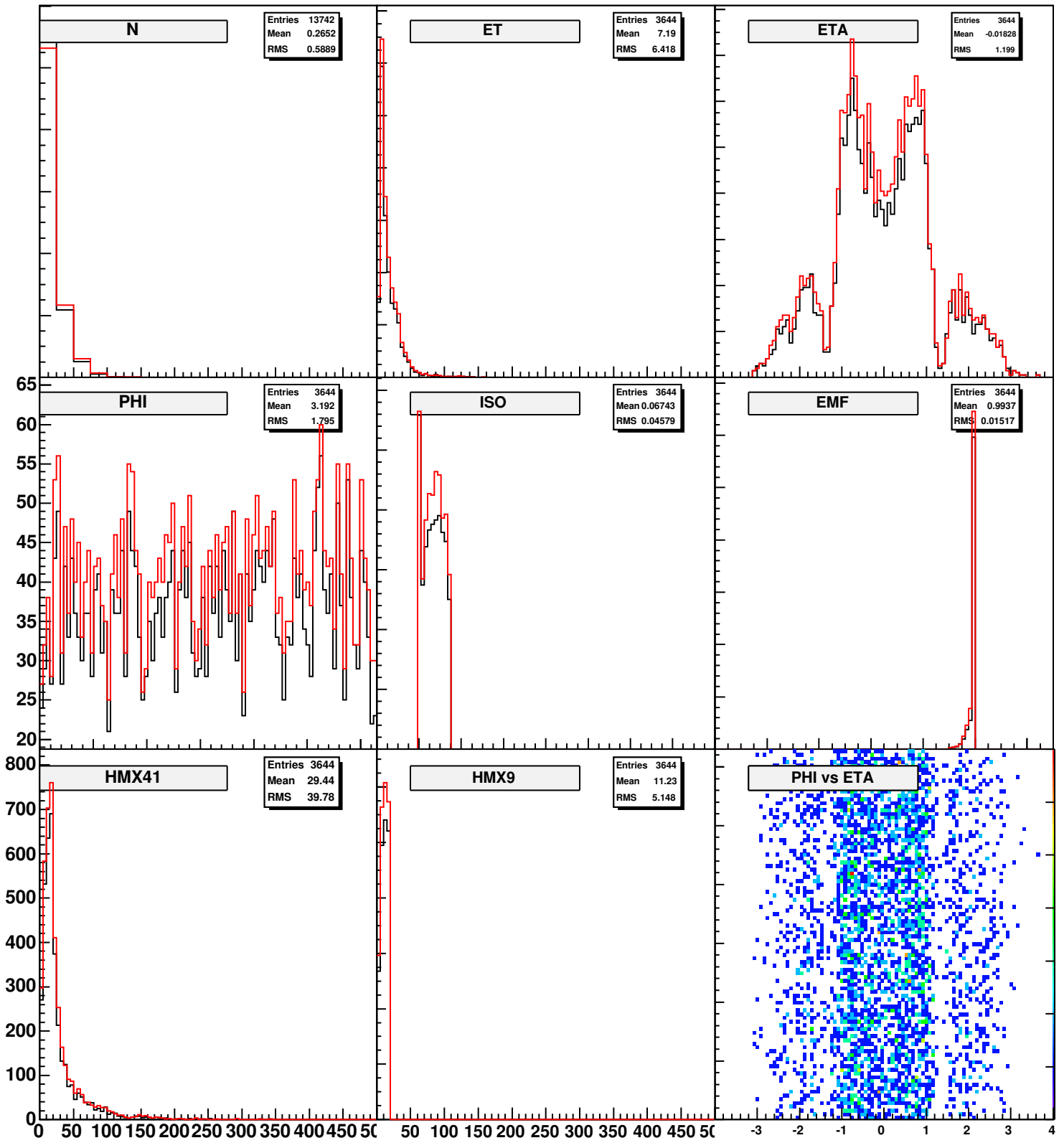
Vertices (Primary - all candidates)


N
Entries 13742
Mean 1
RMS 0
NTRK
Entries 13742
Mean 22.58
RMS 10.04
Chisq prob
Entries 13742
Mean 0.09343
RMS 0.1929
X
Entries 13742
Mean -0.004328
RMS 0.156
Y
Entries 13742
Mean 0.05531
RMS 0.06621
Z
Entries 13742
Mean 1.643
RMS 20.74
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
1
0.5
0
-0.5
-1
0 5 10 15 20 25 30 35
Vertices (Primary - best)

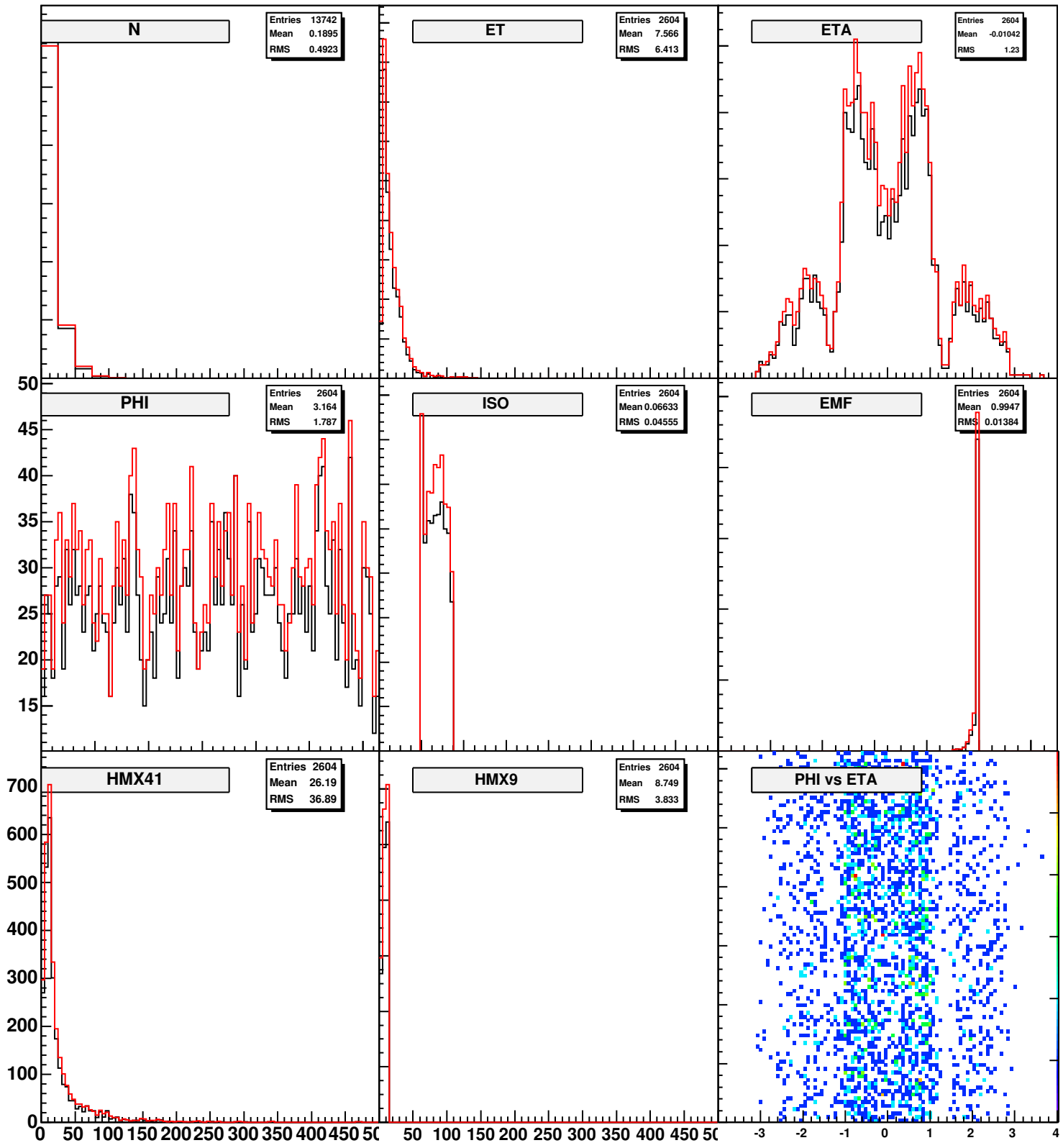

Kshort mass
Entries 9075
Mean 2.053
RMS 4.323
Lambda mass
Entries 9075
Mean 2.691
RMS 4.282
Jpsi mass (2 matches)
Entries 2882
Mean 4.399
RMS 6.037
Anti-Lambda mass
Entries 9075
Mean 2.689
RMS 4.399
M_μμ
M_p-π+
V0 (All)



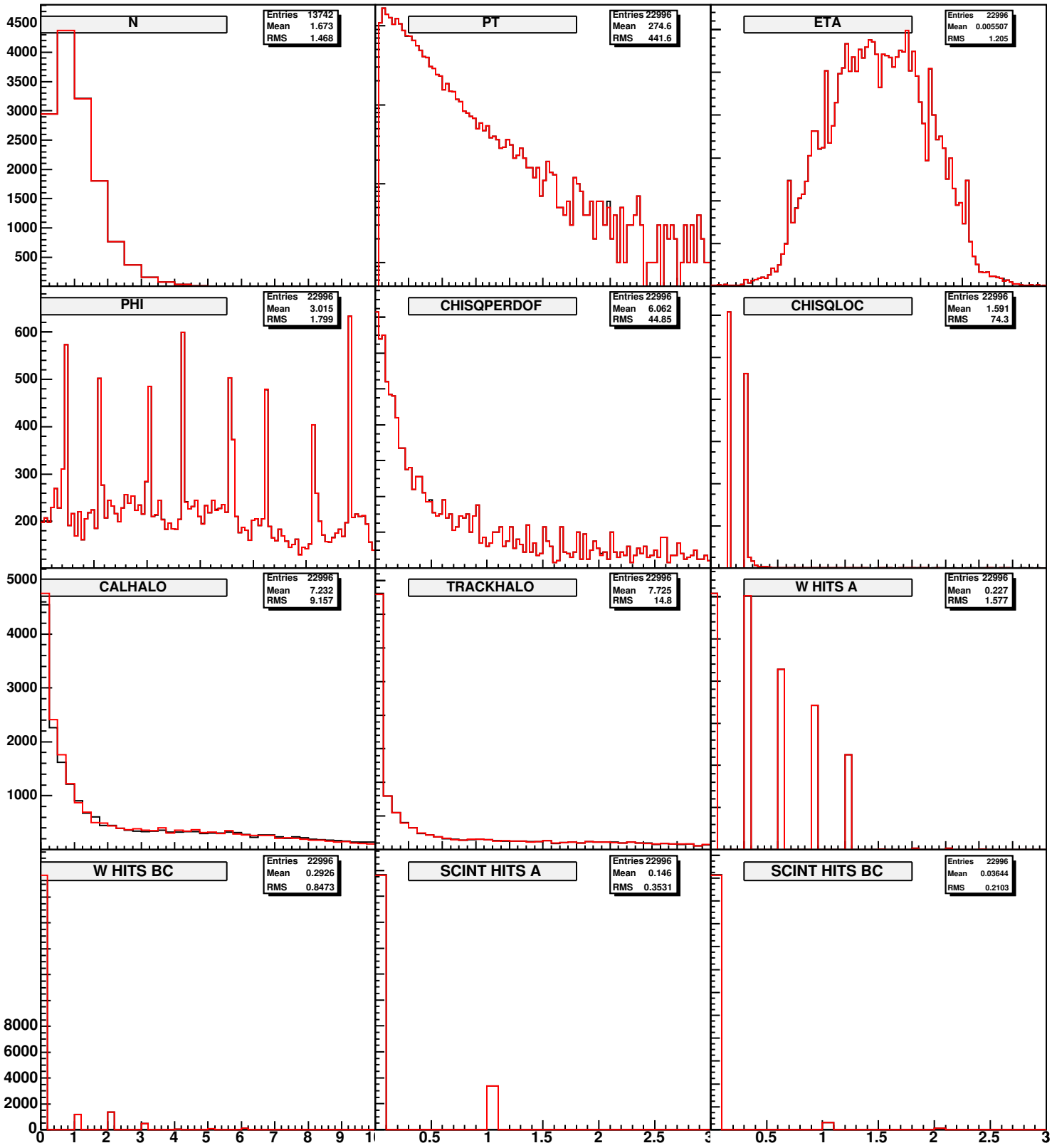
Electrons (SCONE All)



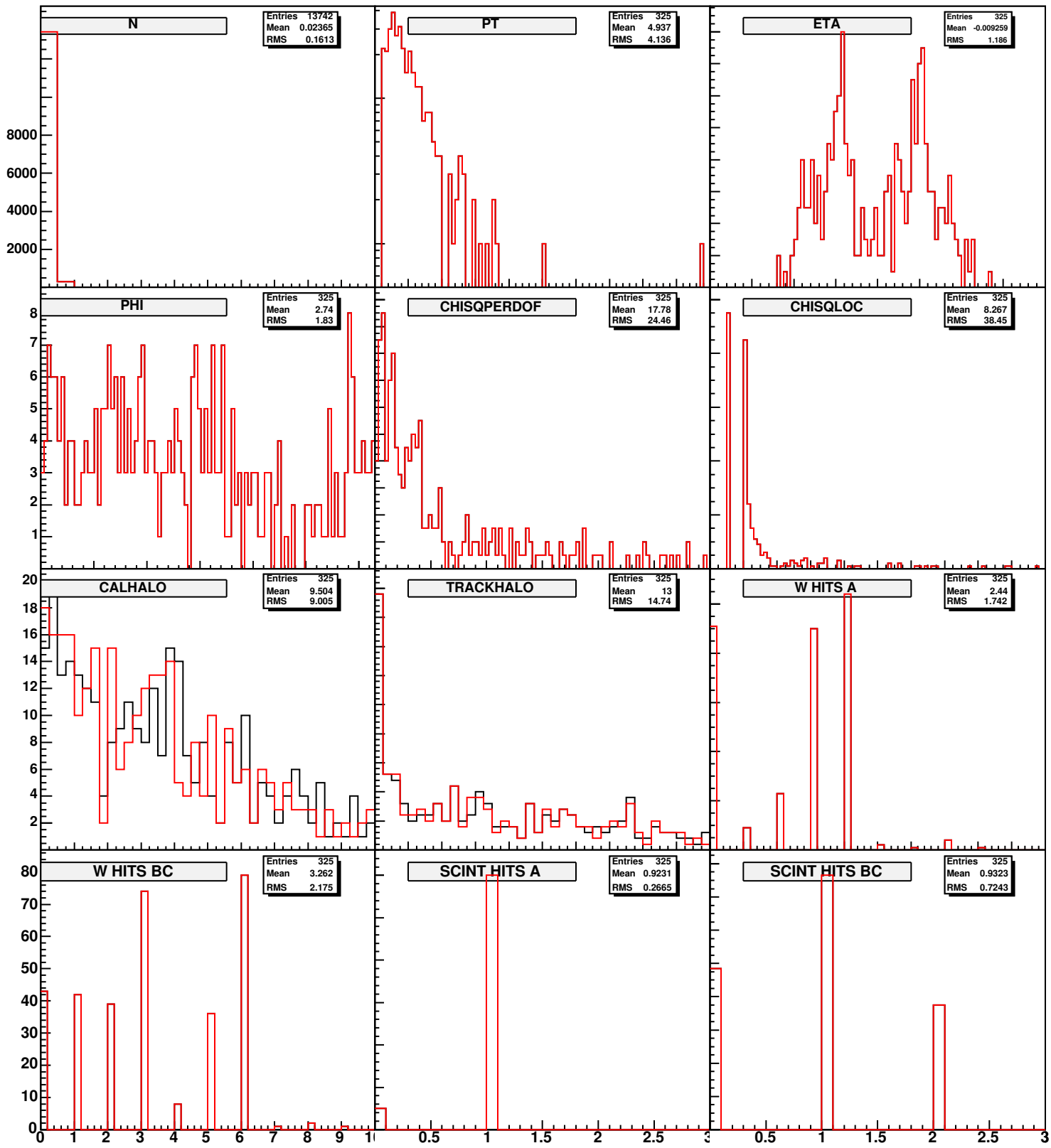
Electrons (SCONE Loose)



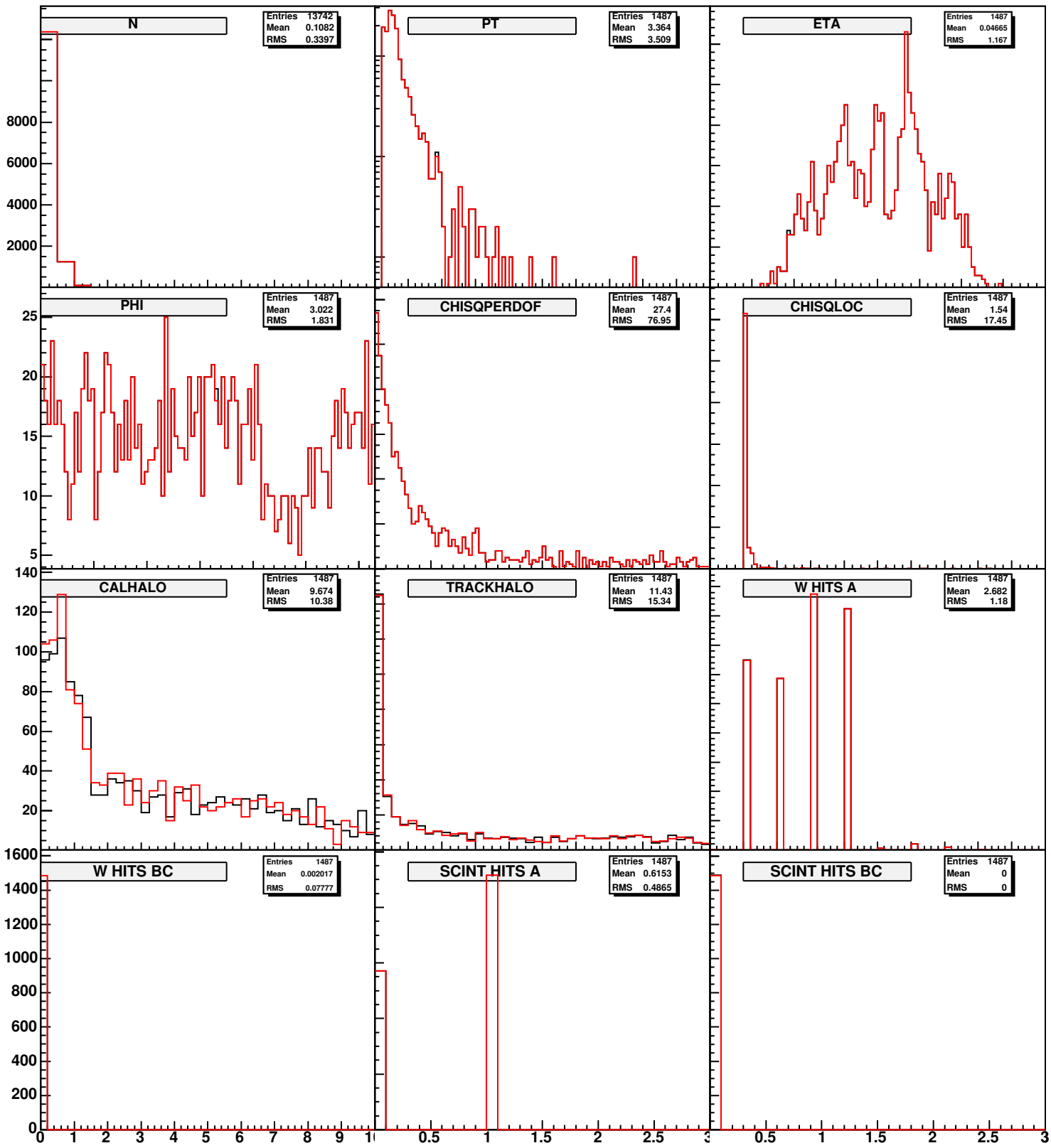
Electrons (SCONE Tight)


N
Entries 13742
Mean 1.673
RMS 1.468
PT
Entries 22996
Mean 274.6
RMS 441.6
ETA
Entries 22996
Mean 0.005507
RMS 1.205
PHI
Entries 22996
Mean 3.015
RMS 1.799
CHISQPERDOF
Entries 22996
Mean 6.062
RMS 44.85
CHISQLOC
Entries 22996
Mean 1.591
RMS 74.3
CALHALO
Entries 22996
Mean 7.232
RMS 9.157
TRACKHALO
Entries 22996
Mean 7.725
RMS 14.8
W HITS A
Entries 22996
Mean 0.227
RMS 1.577
W HITS BC
Entries 22996
Mean 0.2926
RMS 0.8473
SCINT HITS A
Entries 22996
Mean 0.146
RMS 0.3531
SCINT HITS BC
Entries 22996
Mean 0.03644
RMS 0.2103

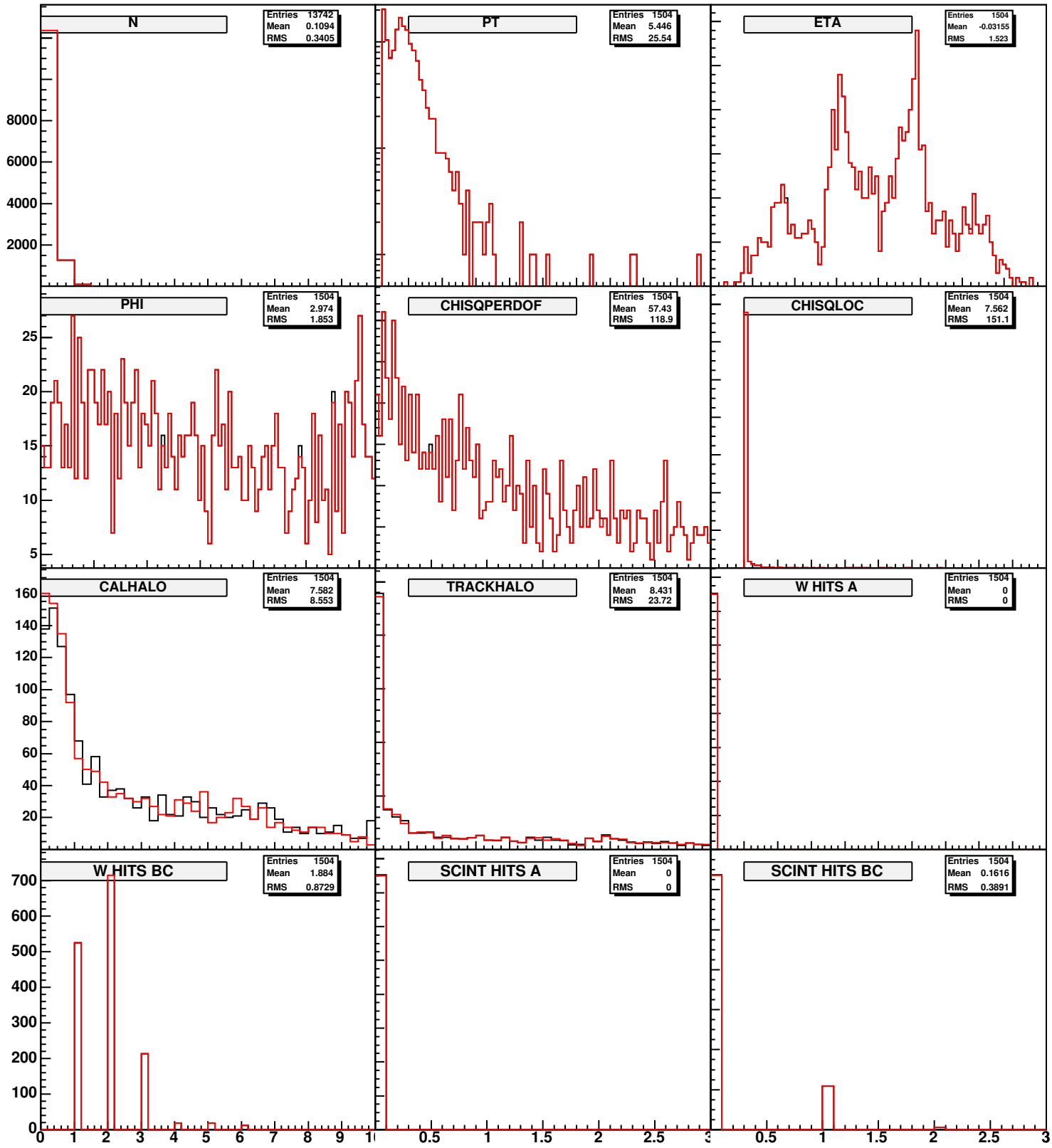
Muons (All)



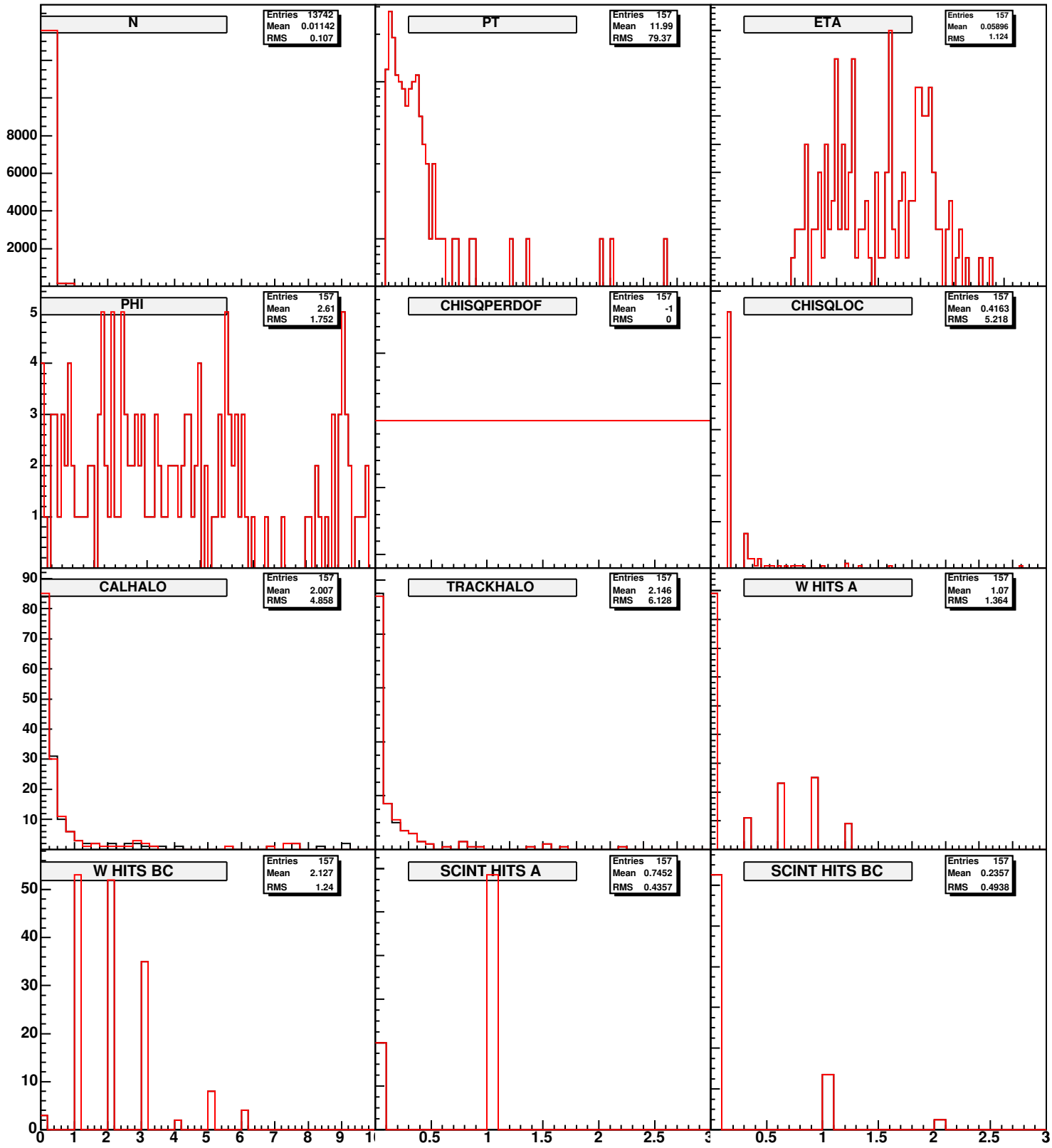
Muons (Matched)


N
Entries 13742
Mean 0.1082
RMS 0.3397
PT
Entries 1487
Mean 3.364
RMS 3.509
ETA
Entries 1487
Mean 0.04665
RMS 1.167
PHI
Entries 1487
Mean 3.022
RMS 1.831
CHISQPERDOF
Entries 1487
Mean 27.4
RMS 76.95
CHISQLOC
Entries 1487
Mean 1.54
RMS 17.45
CALHALO
Entries 1487
Mean 9.674
RMS 10.38
TRACKHALO
Entries 1487
Mean 11.43
RMS 15.34
W HITS A
Entries 1487
Mean 2.682
RMS 1.18
W HITS BC
Entries 1487
Mean 0.002017
RMS 0.07777
SCINT HITS A
Entries 1487
Mean 0.6153
RMS 0.4865
SCINT HITS BC
Entries 1487
Mean 0
RMS 0

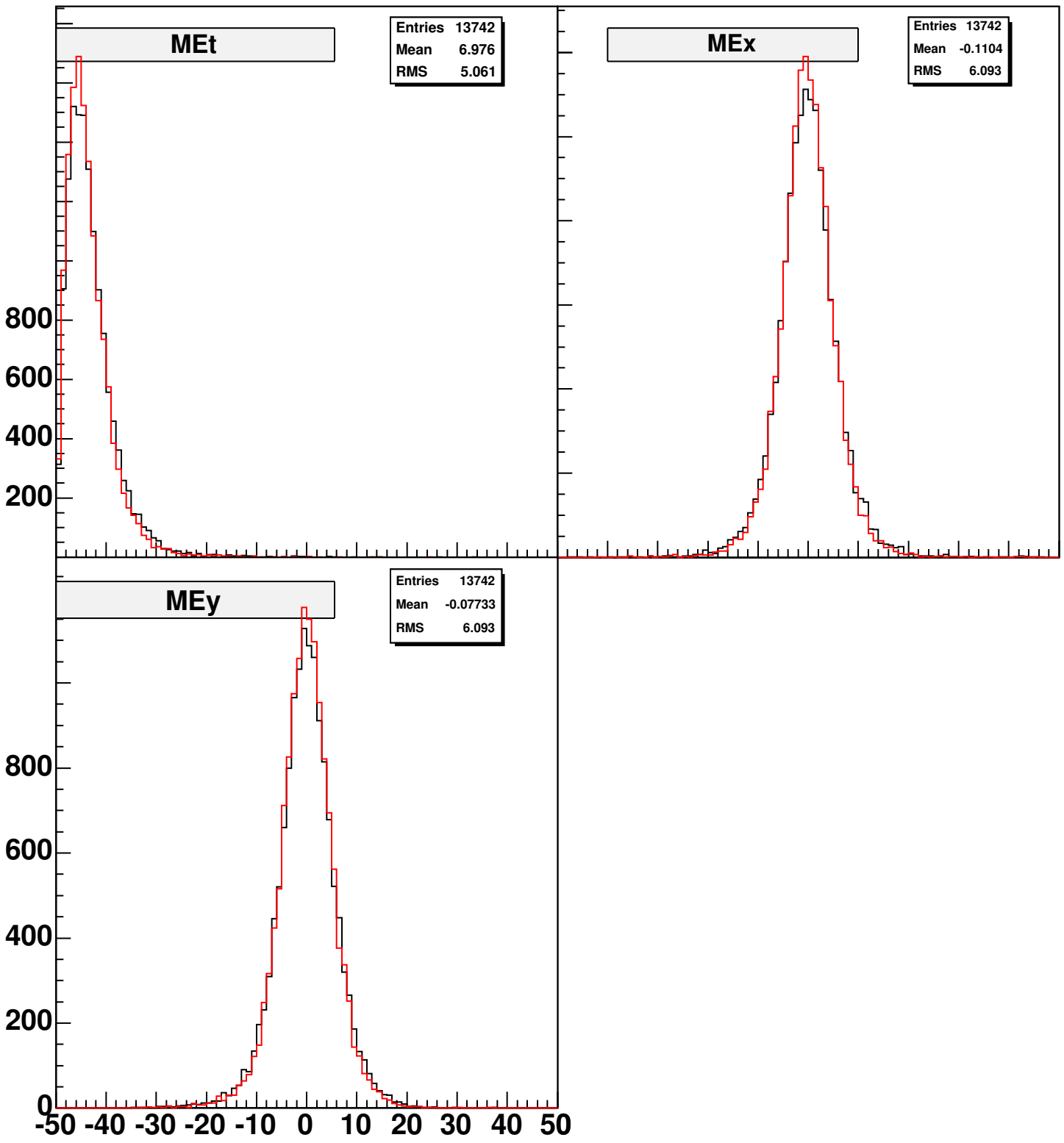
Muons (Astub)

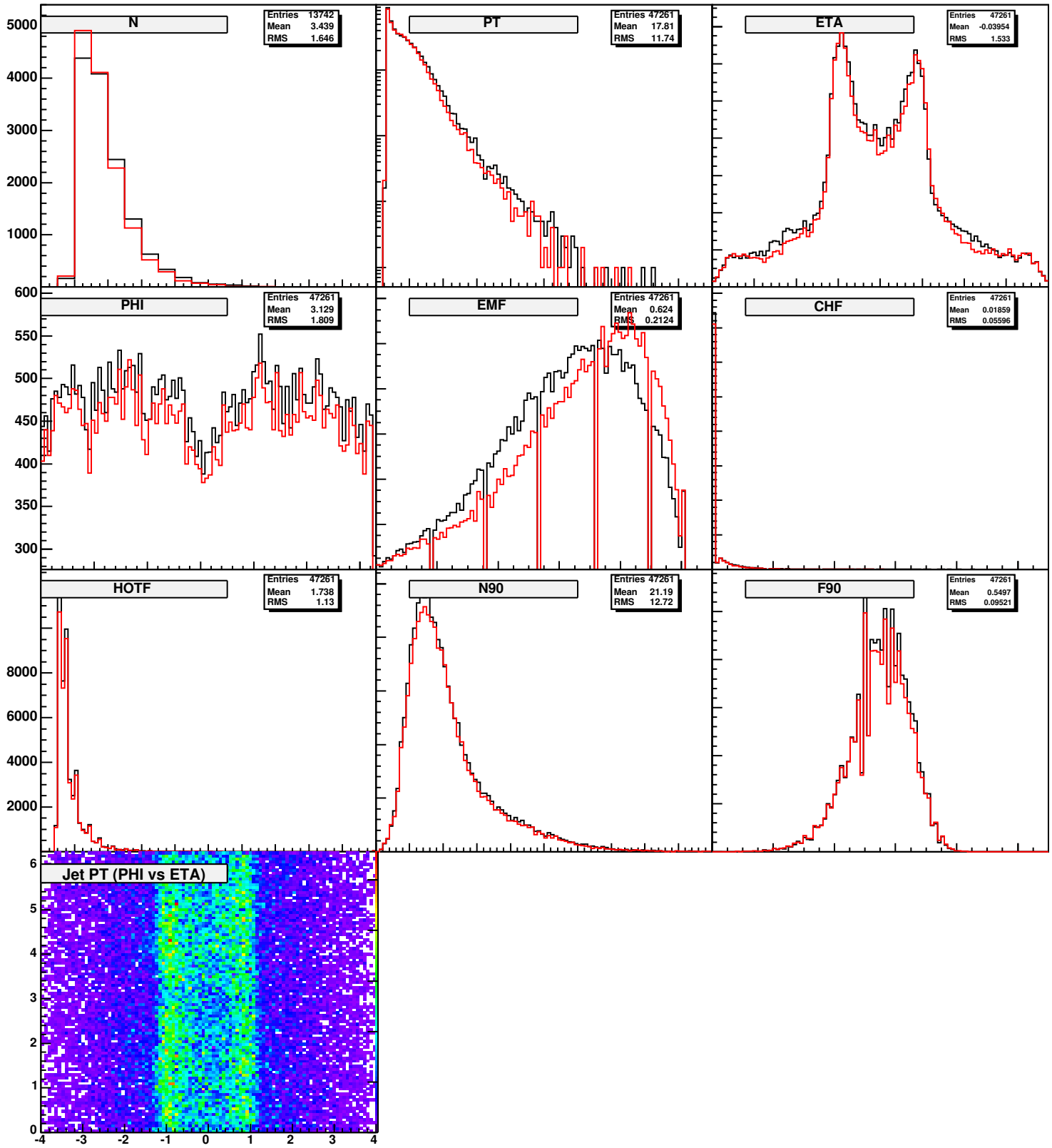


Muons (BCstub)

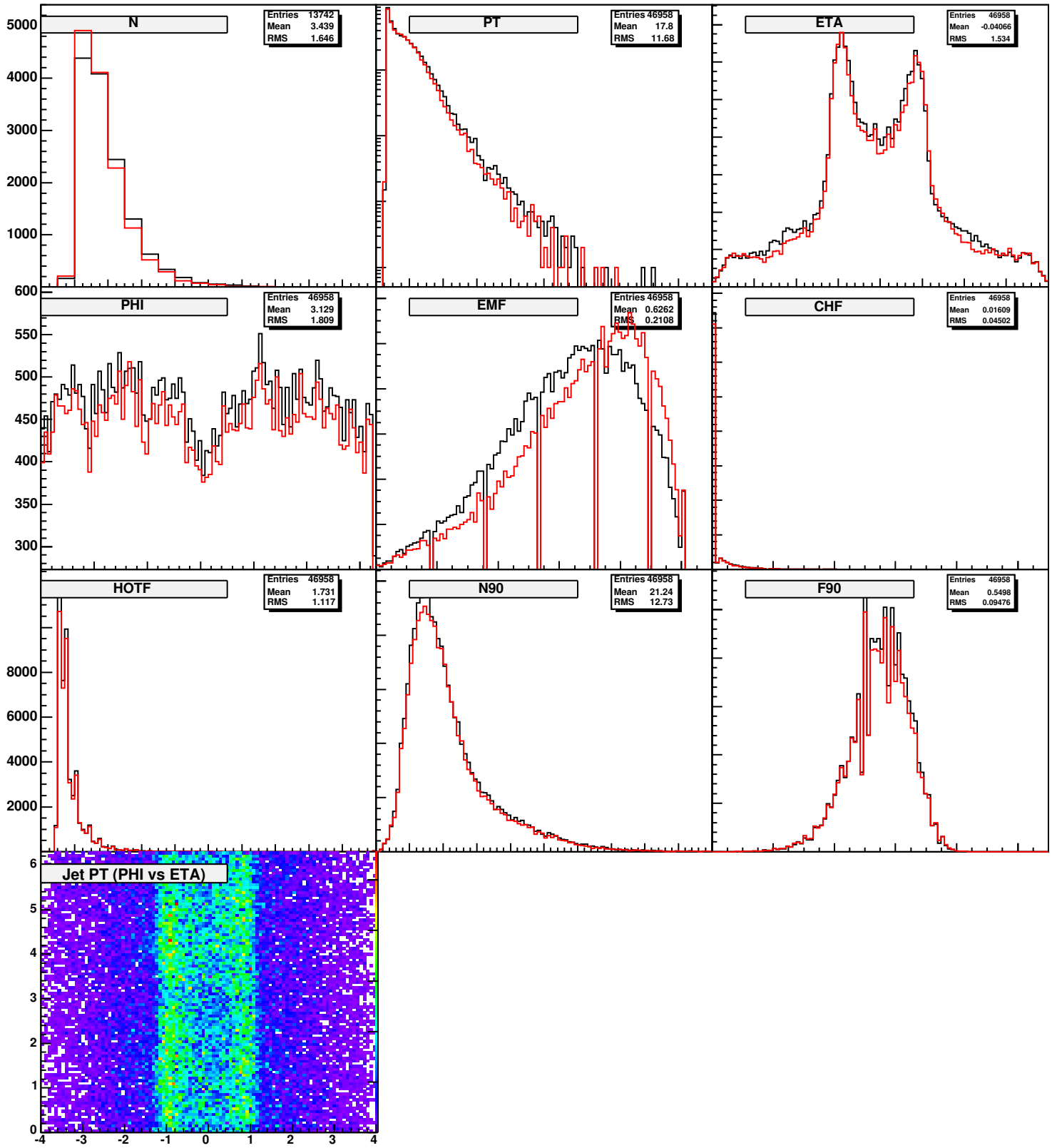


Muons (Unmatched)

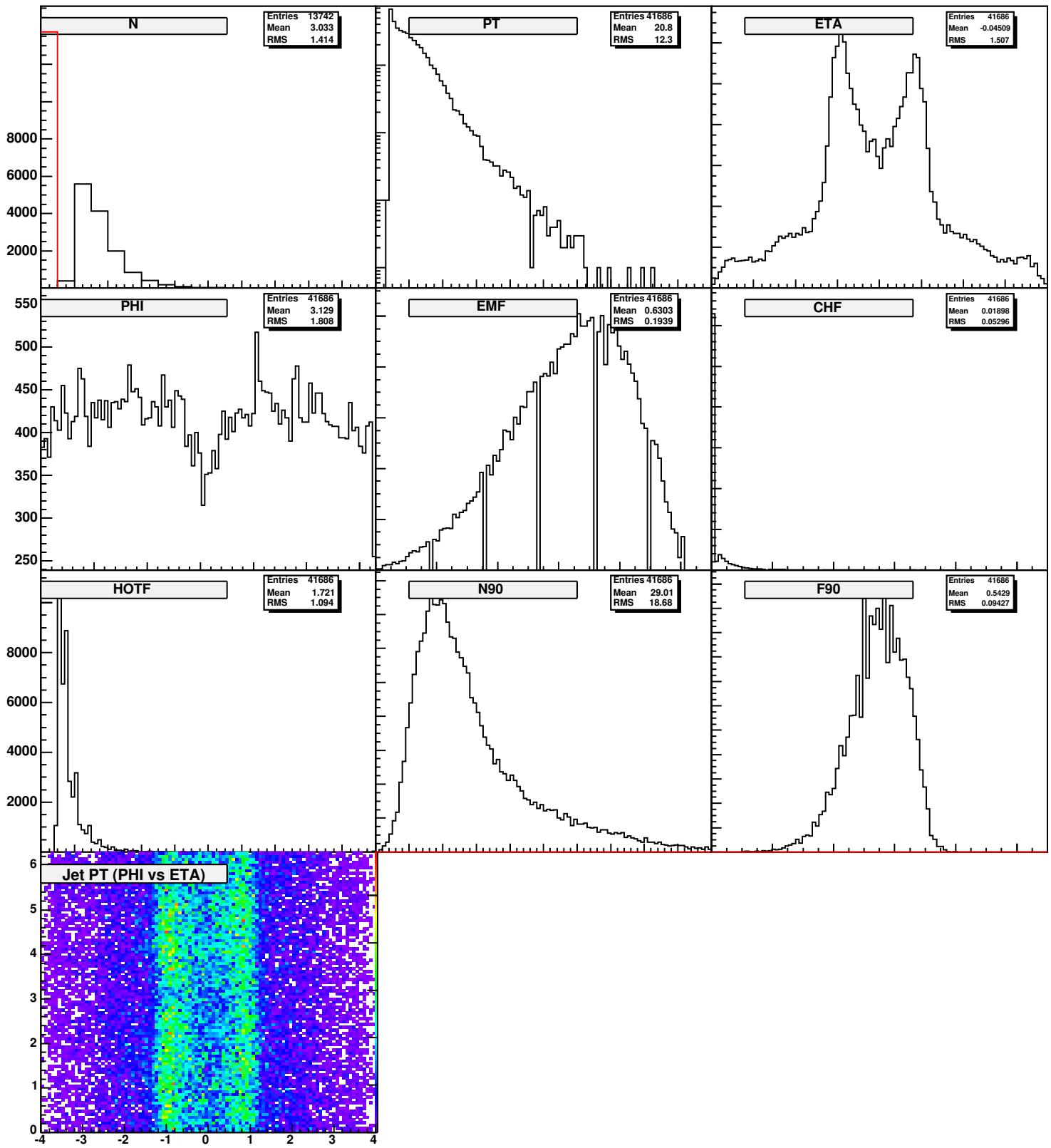

MEt
Entries 13742
Mean 6.976
RMS 5.061
MEx
Entries 13742
Mean -0.1104
RMS 6.093
MEy
Entries 13742
Mean -0.07733
RMS 6.093
800
600
400
200
0
-50 -40 -30 -20 -10 0 10 20 30 40 50
Met (No cuts)



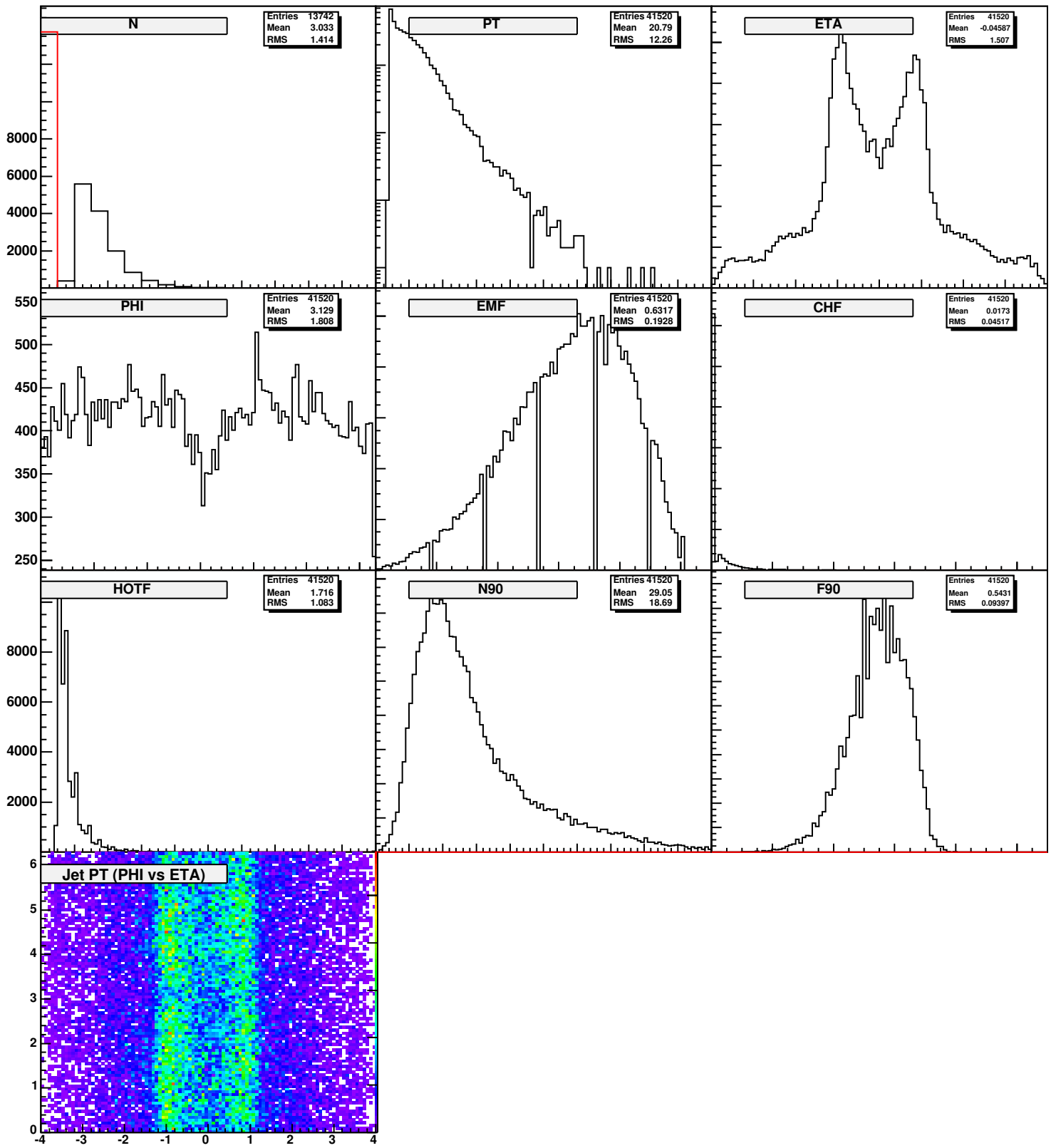
Jets (Cone R 0.7 (no cuts))



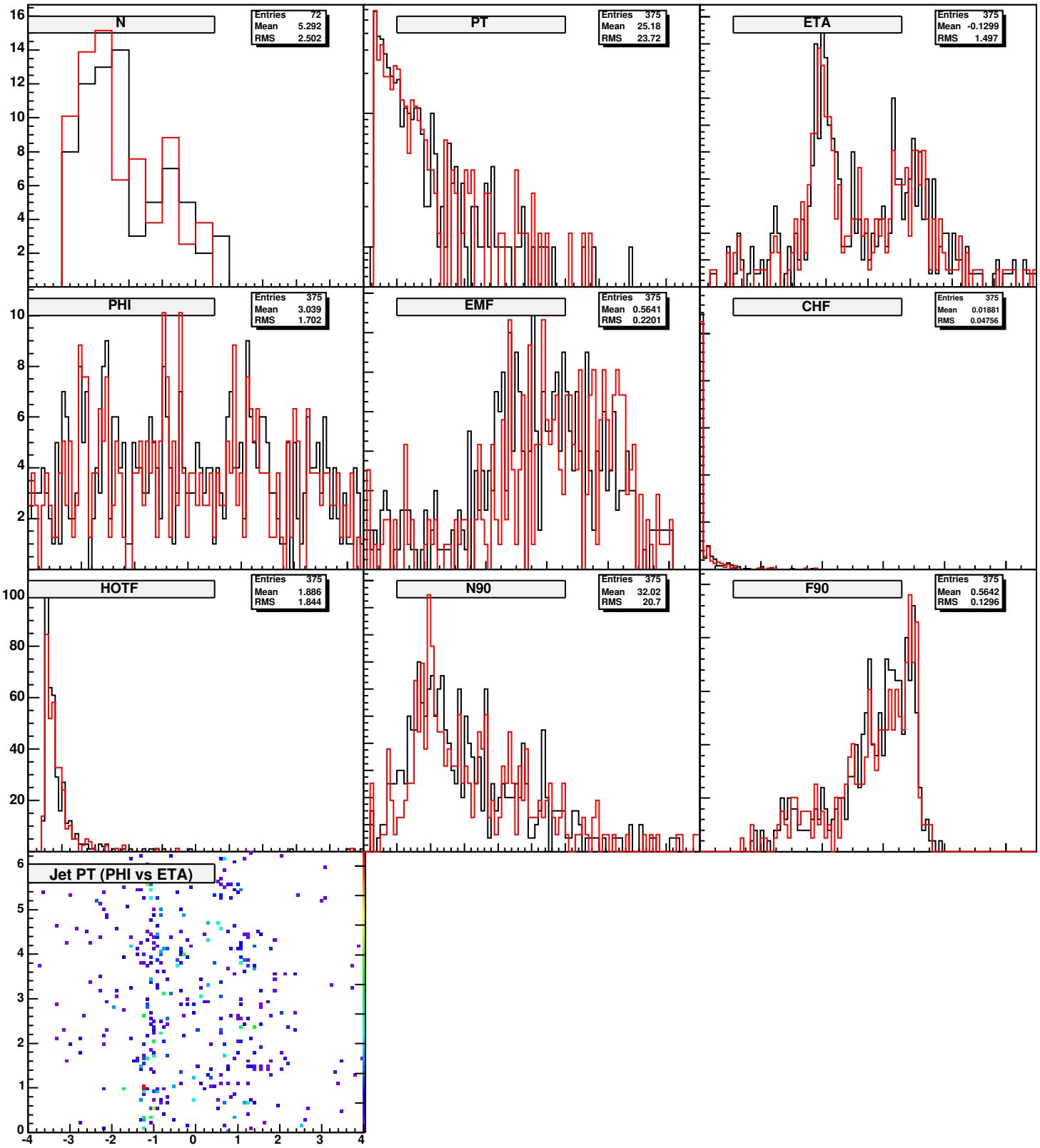
Jets (Cone R 0.7 (standard cuts))



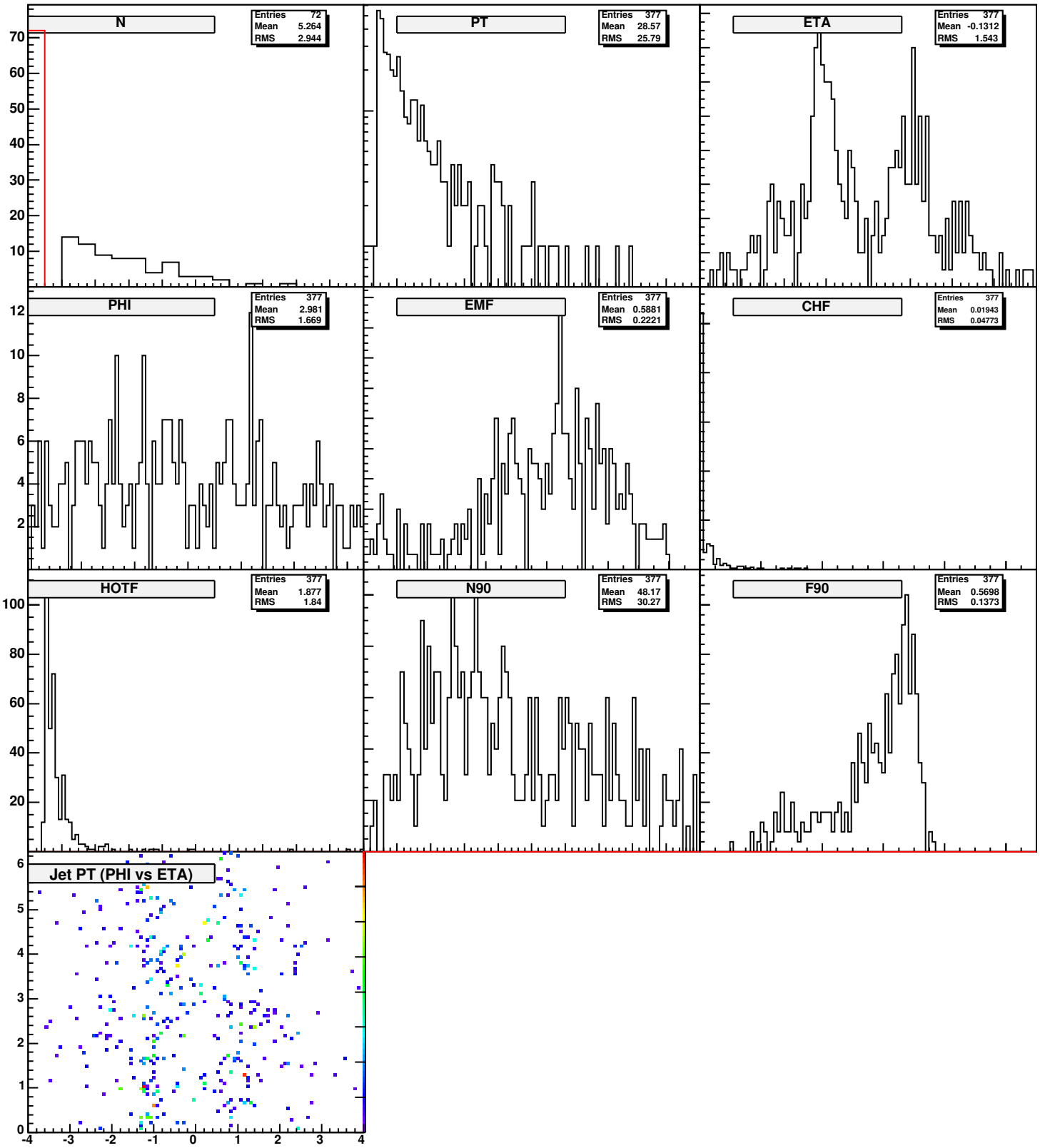
Jets (KT D 1 (no cuts))



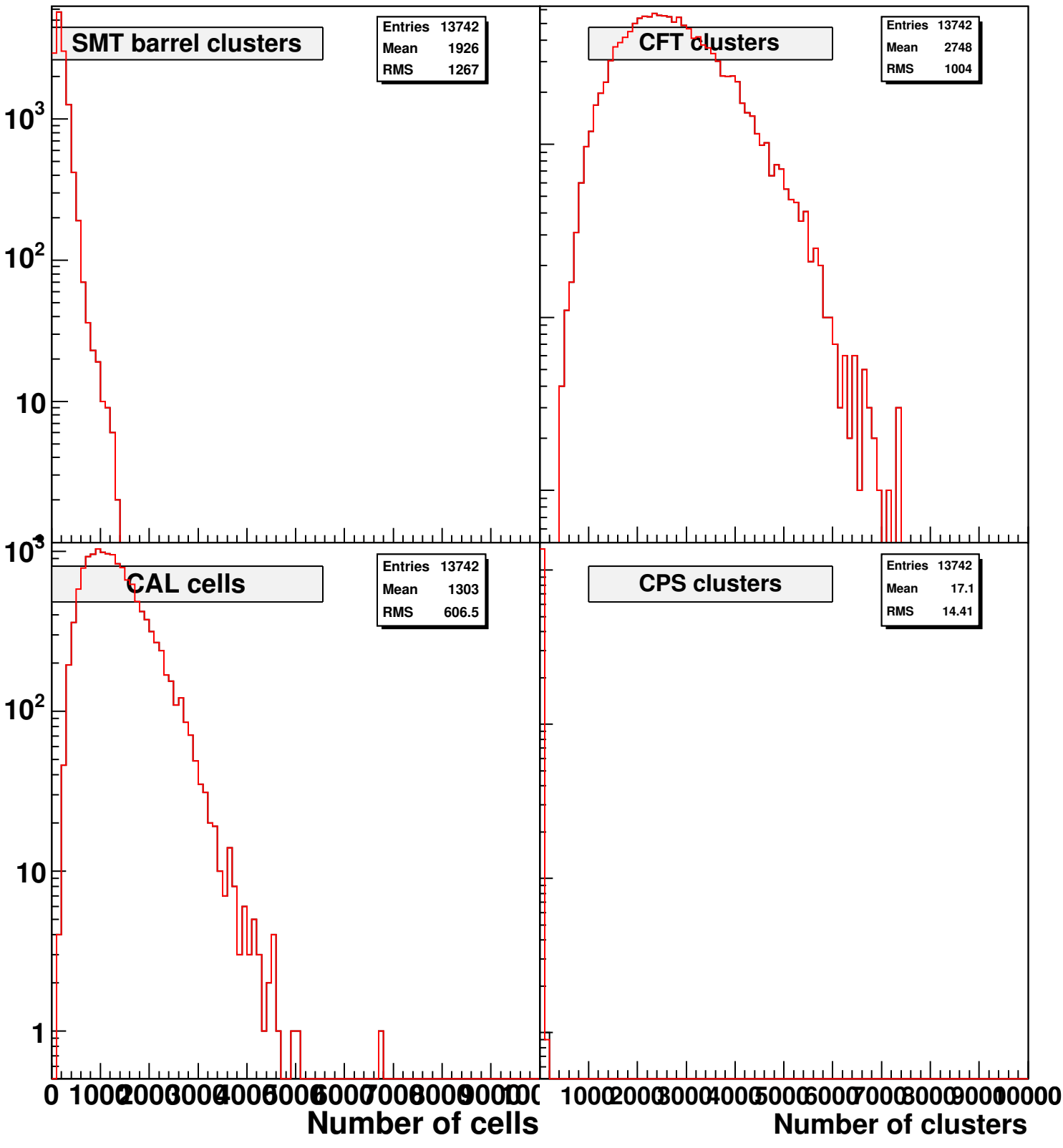
Jets (KT D 1 (standard cuts))

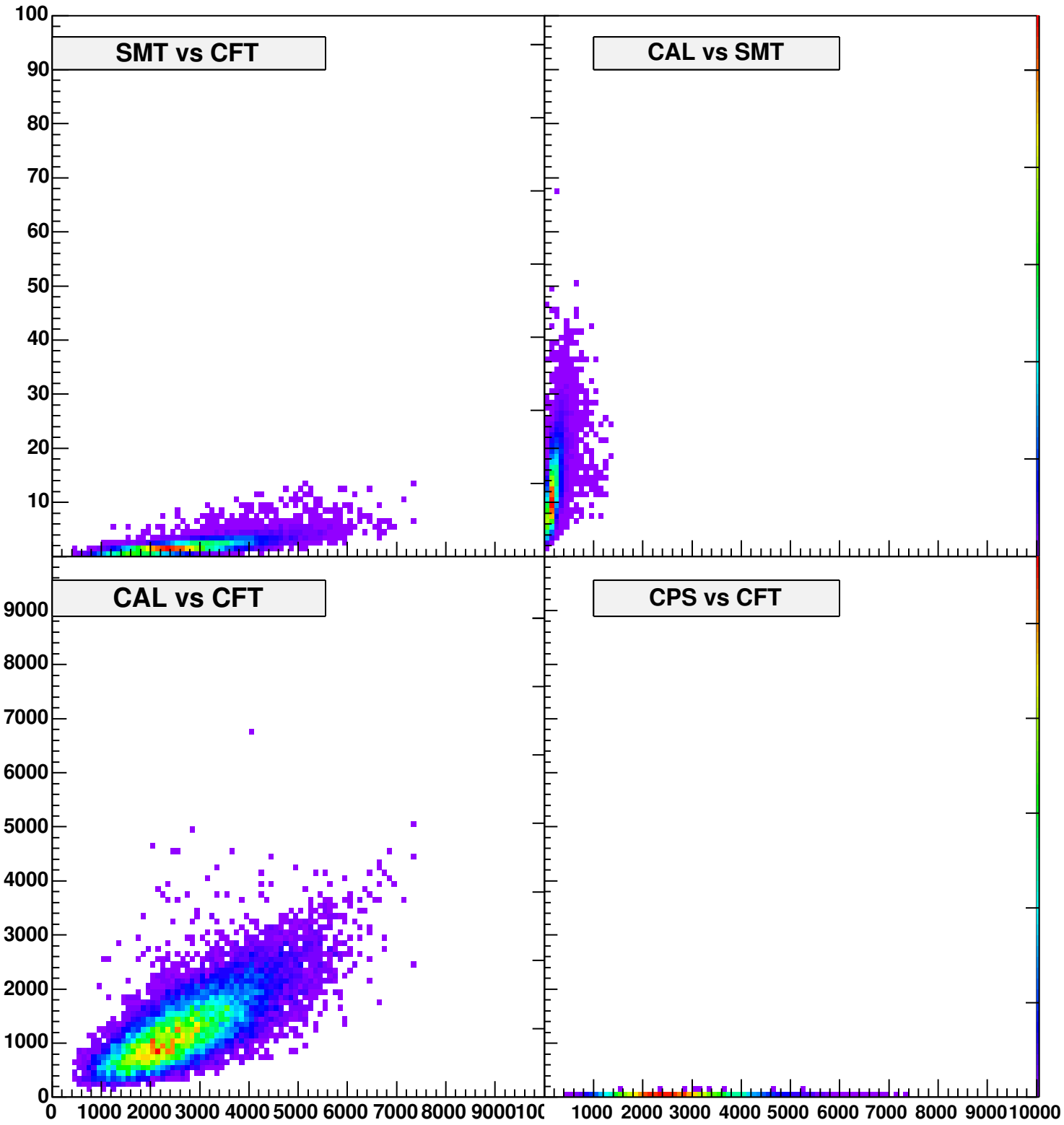


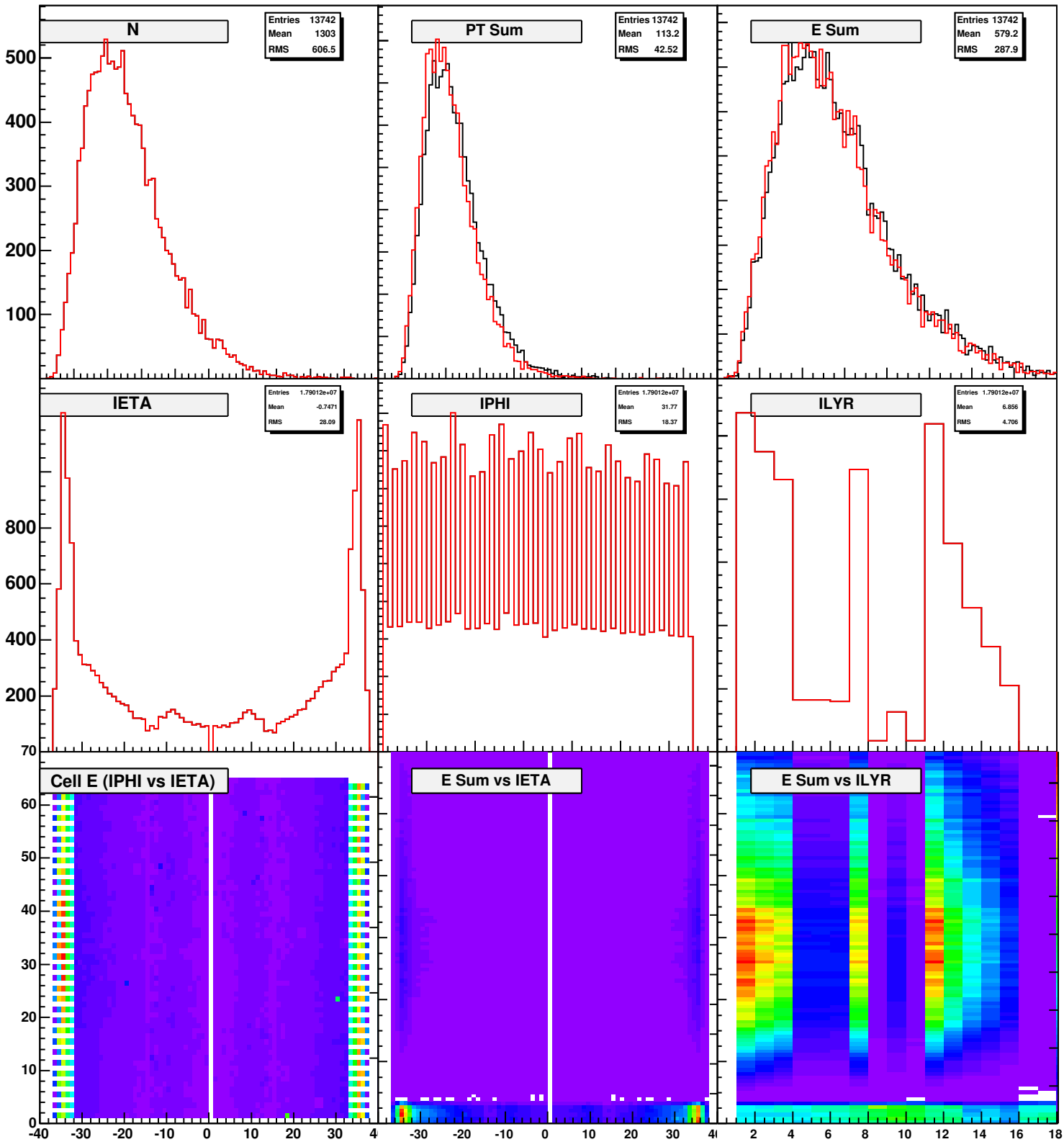
Jets (Cone R 0.7 (standard cuts, MET>30))



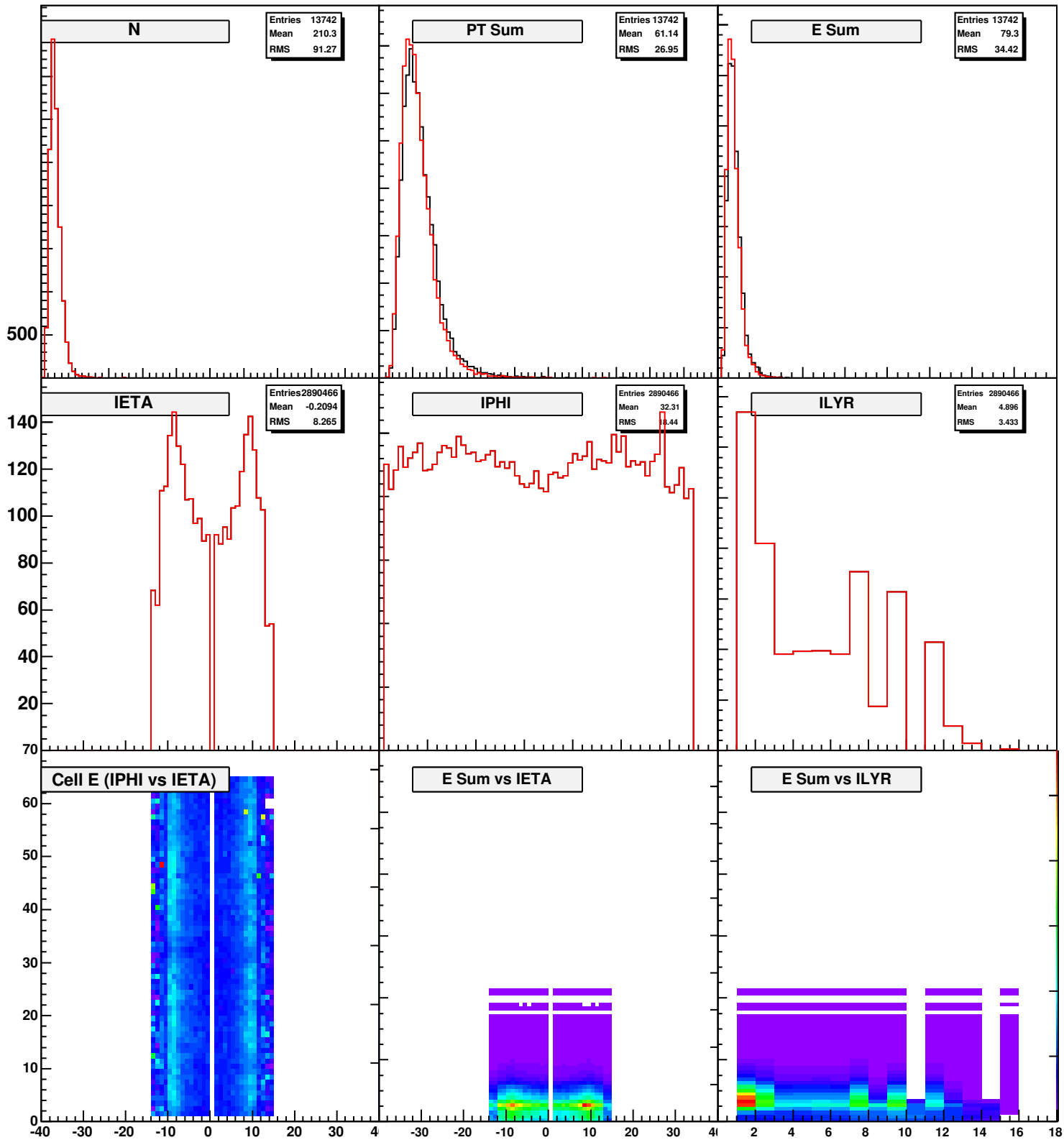
Jets (KT D 1 (standard cuts, MET>30))


SMT barrel clusters
Entries 13742
Mean 1926
RMS 1267
CFT clusters
Entries 13742
Mean 2748
RMS 1004
CAL cells
Entries 13742
Mean 1303
RMS 606.5
CPS clusters
Entries 13742
Mean 17.1
RMS 14.41
Number of cells
Number of clusters
Detector Occupancy (Detector)

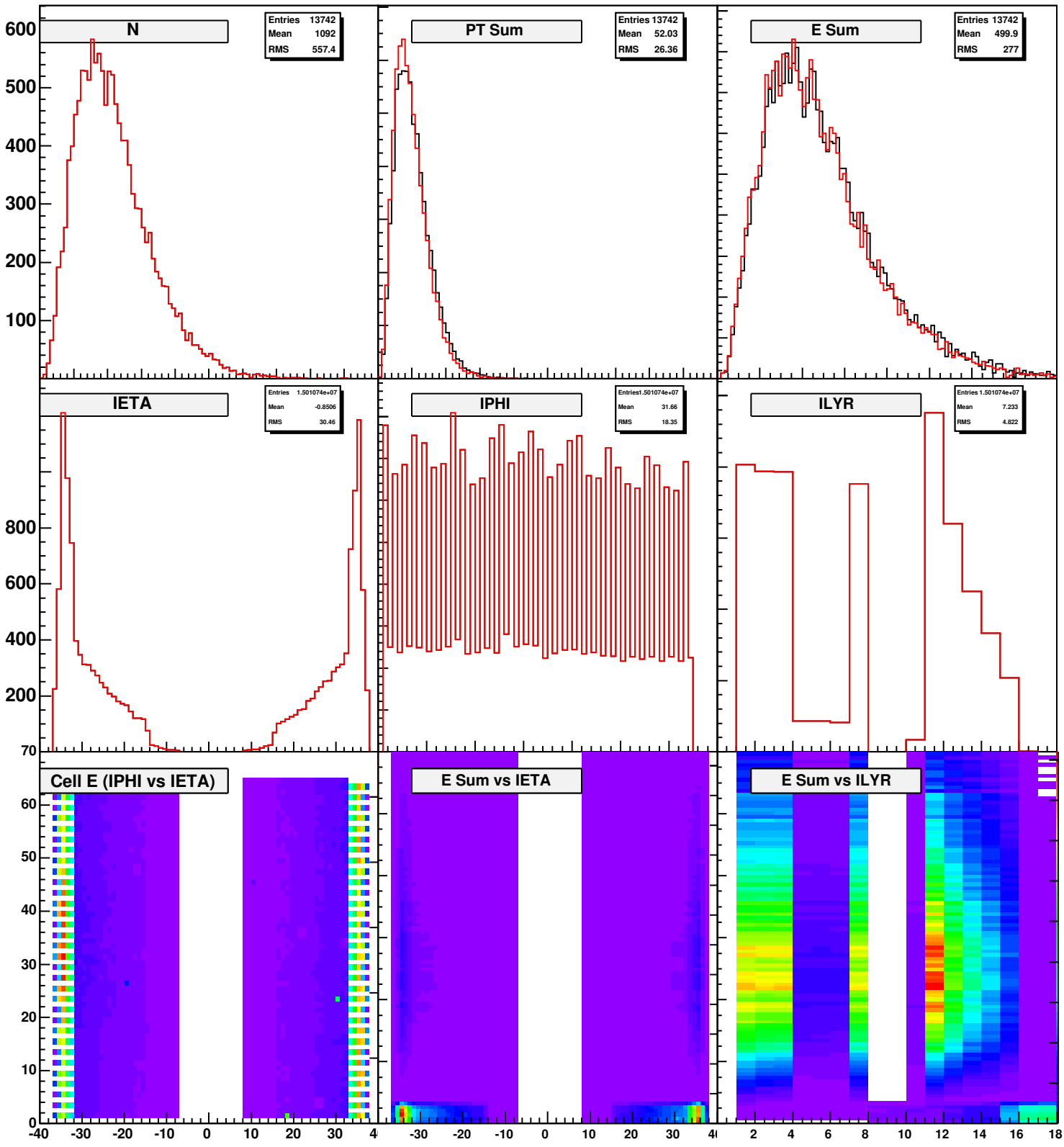

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
100
90
80
70
60
50
40
30
20
10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Detector Occupancy (Detector)



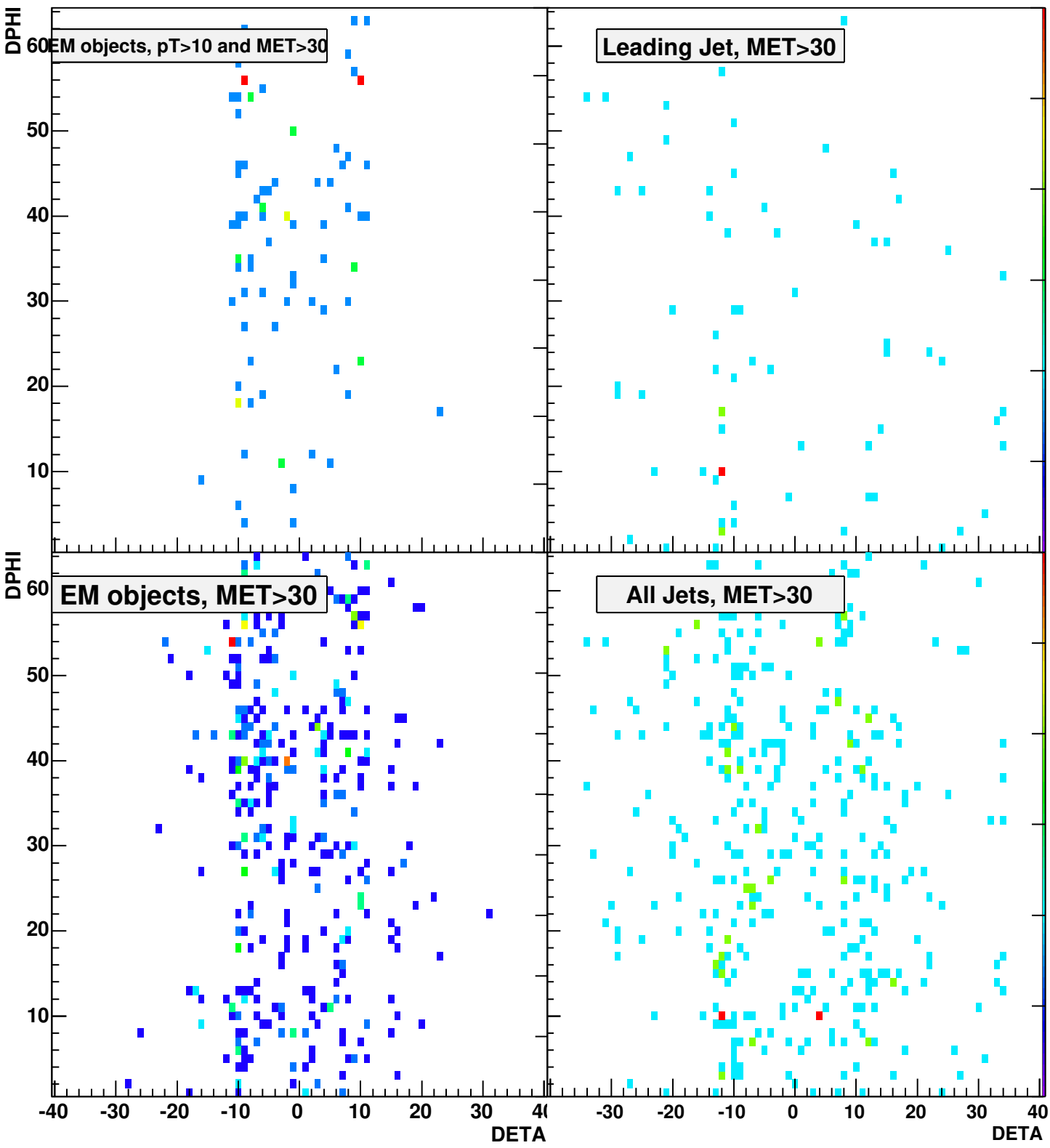
Calorimeter (All cells)



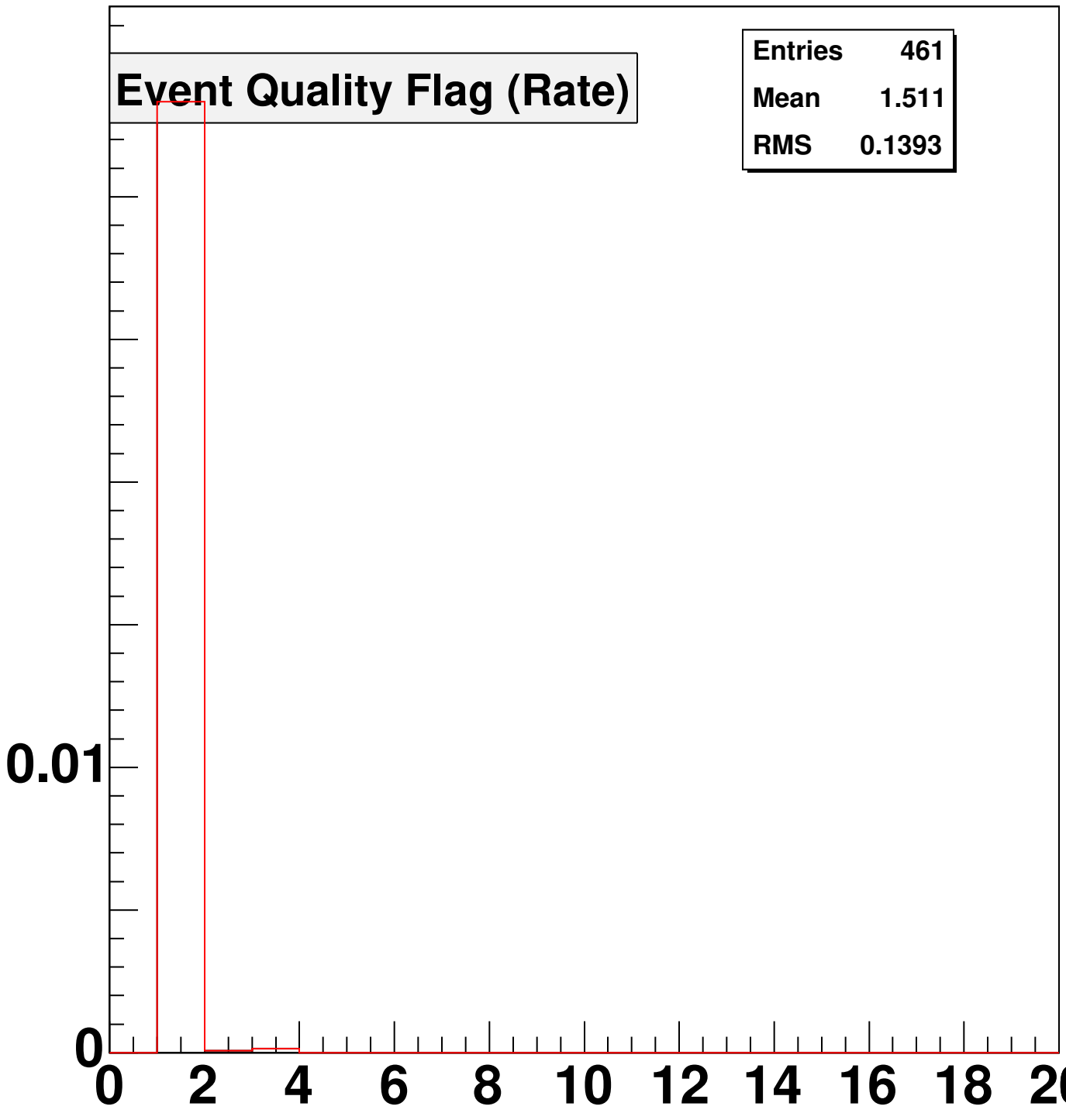
Calorimeter (All CC cells)

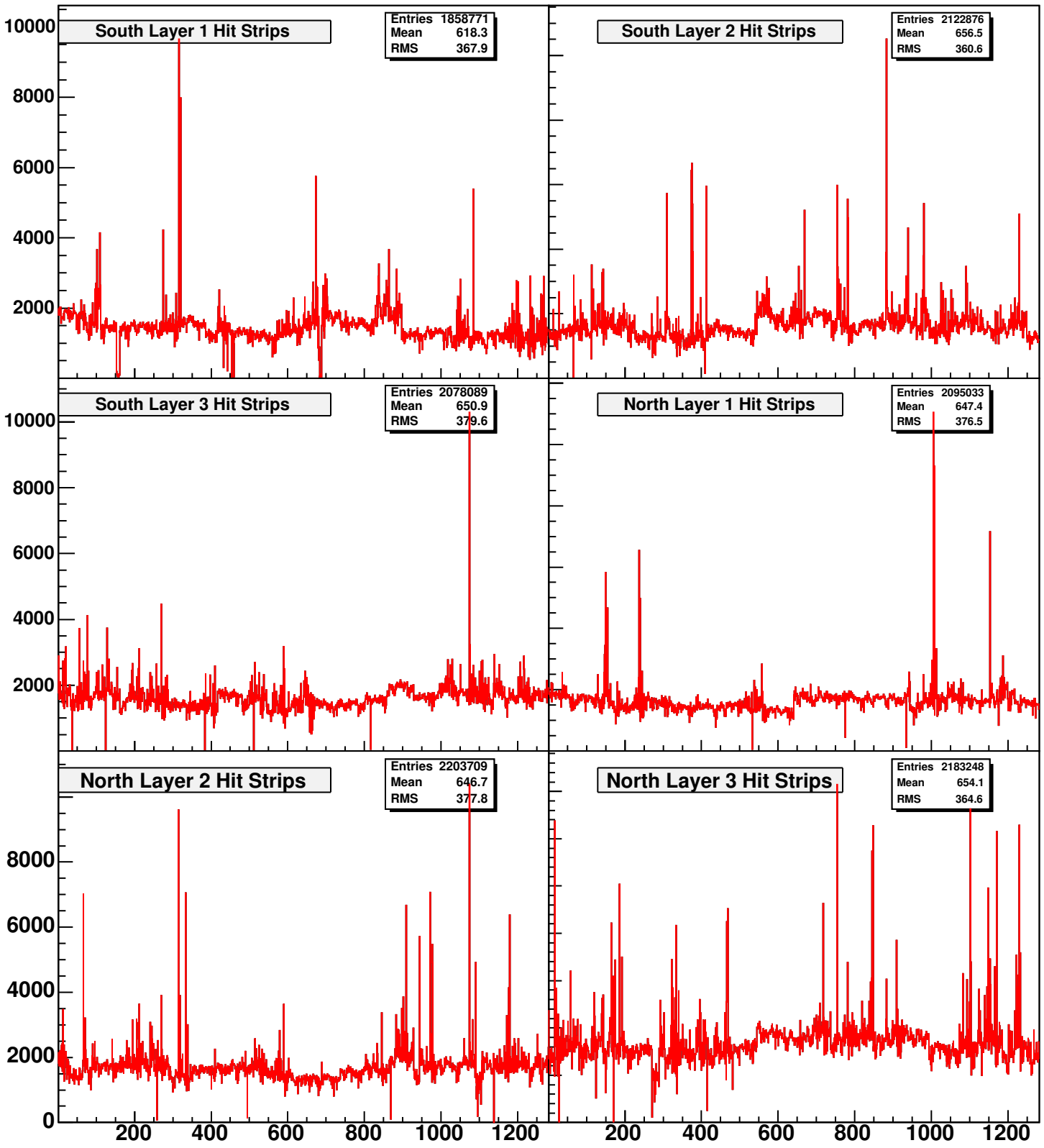


Calorimeter (All EC cells)

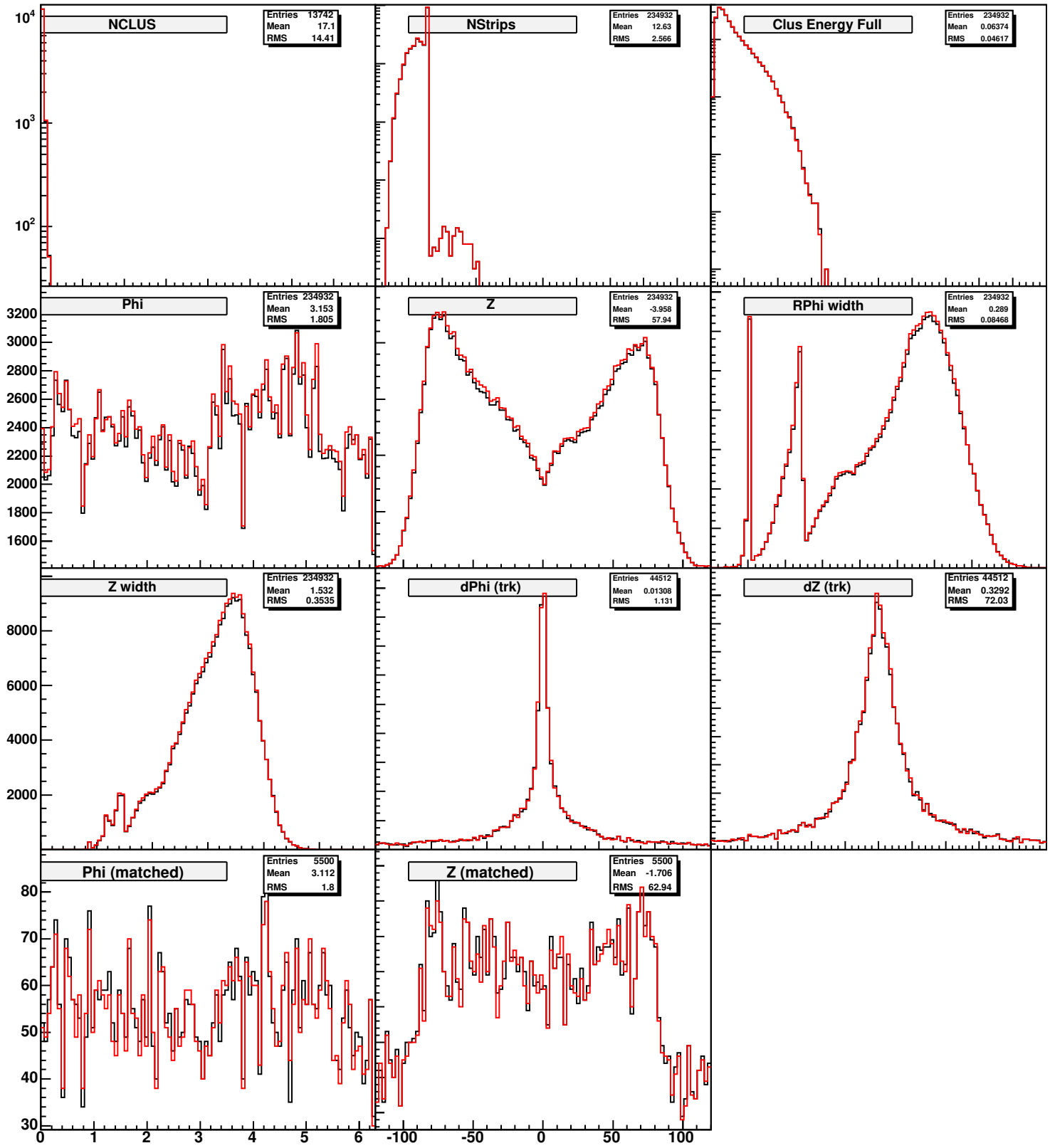


Cal Objects with MET>30 (All cells)

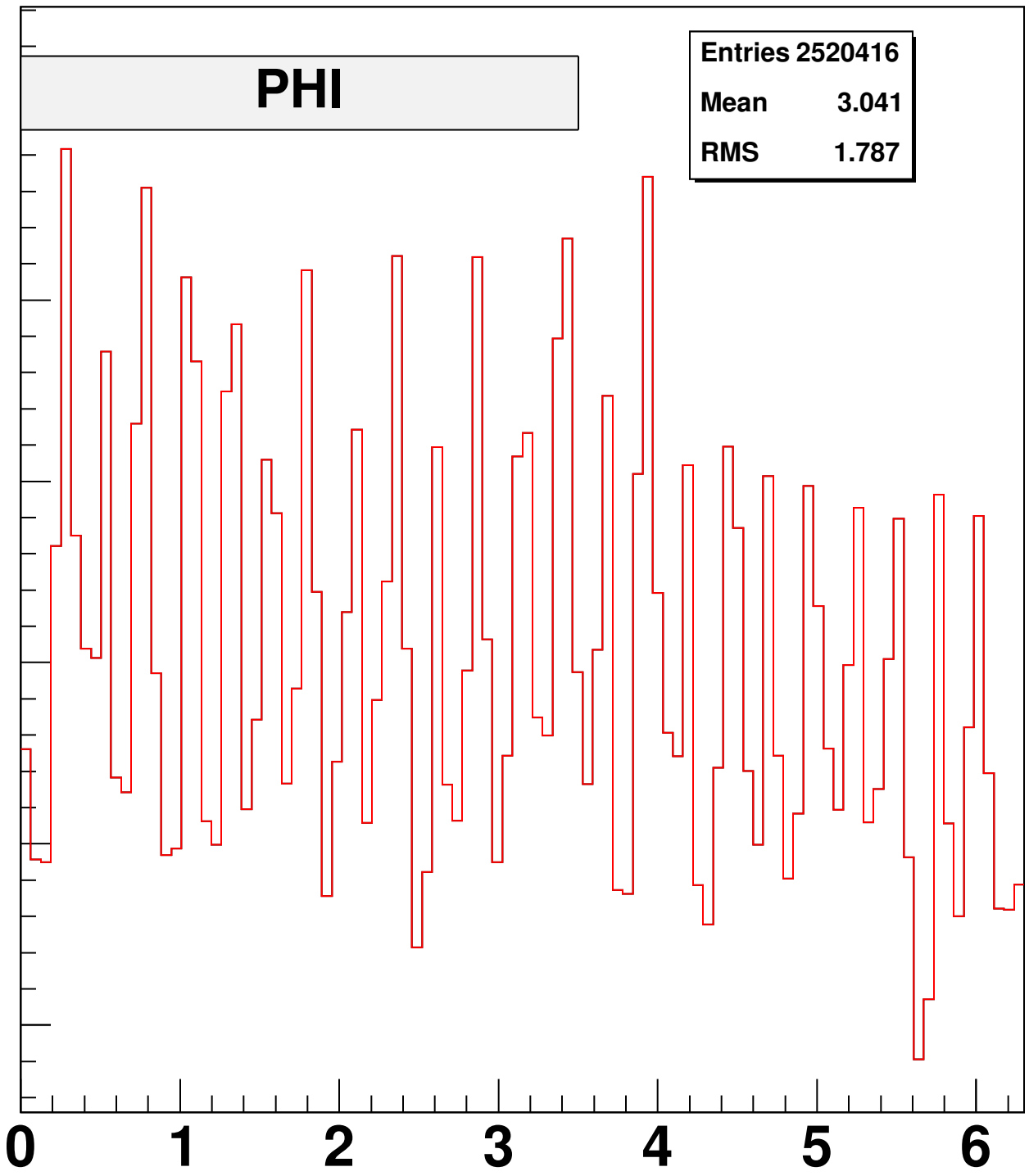

Event Quality Flag (Rate)
Entries 461
Mean 1.511
RMS 0.1393
0.01
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

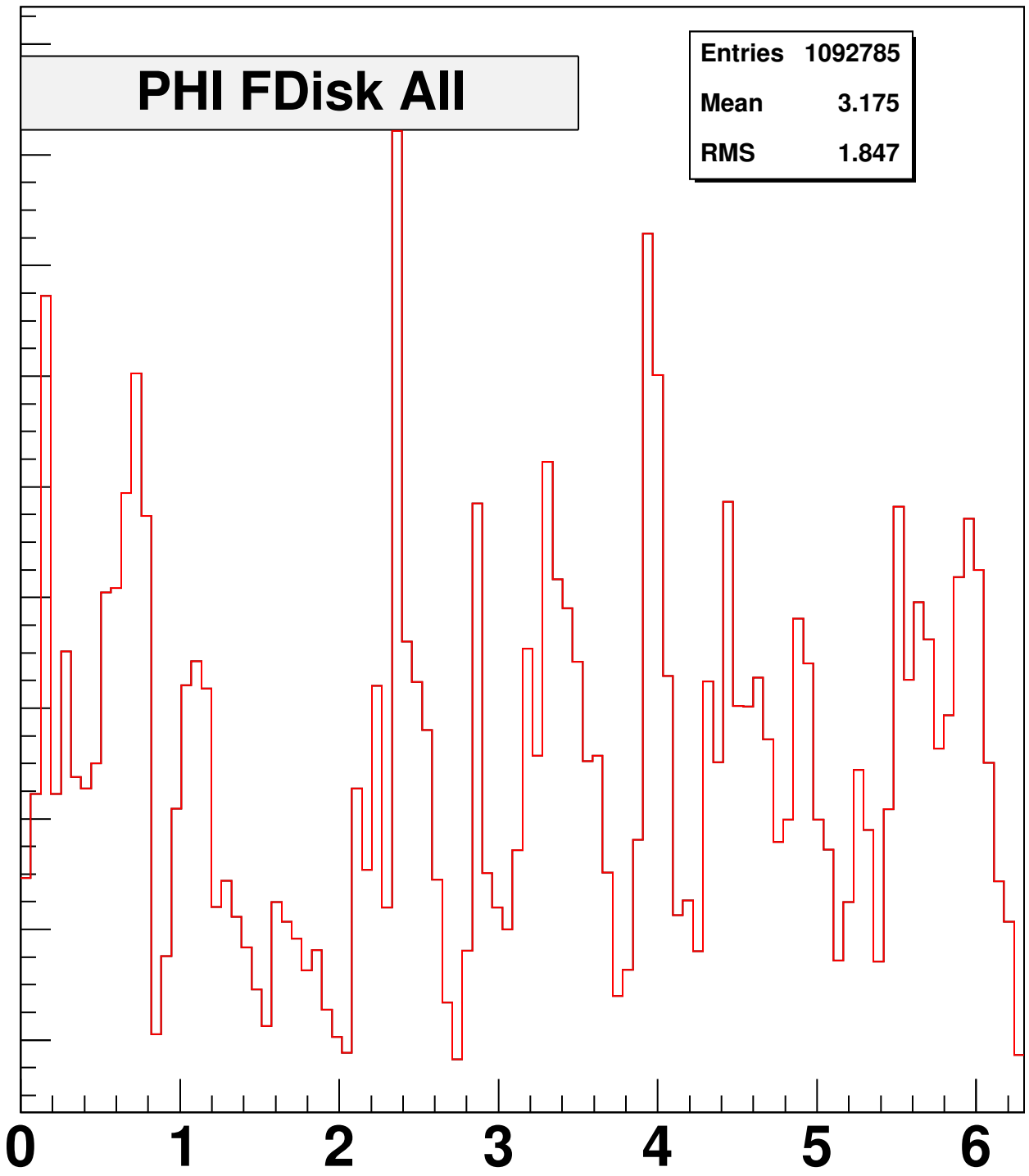


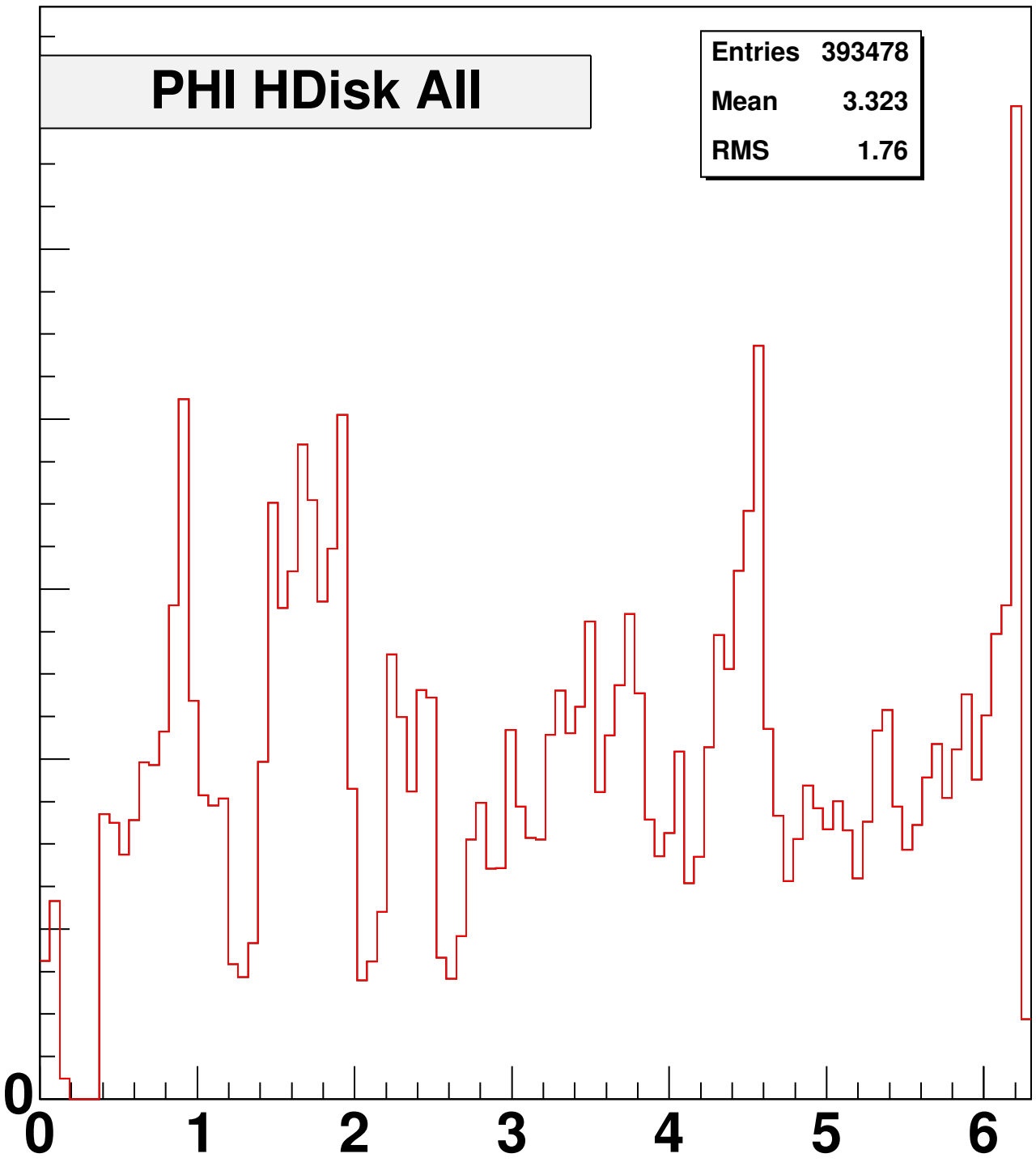
CPS Hit Strips (All Clusters)

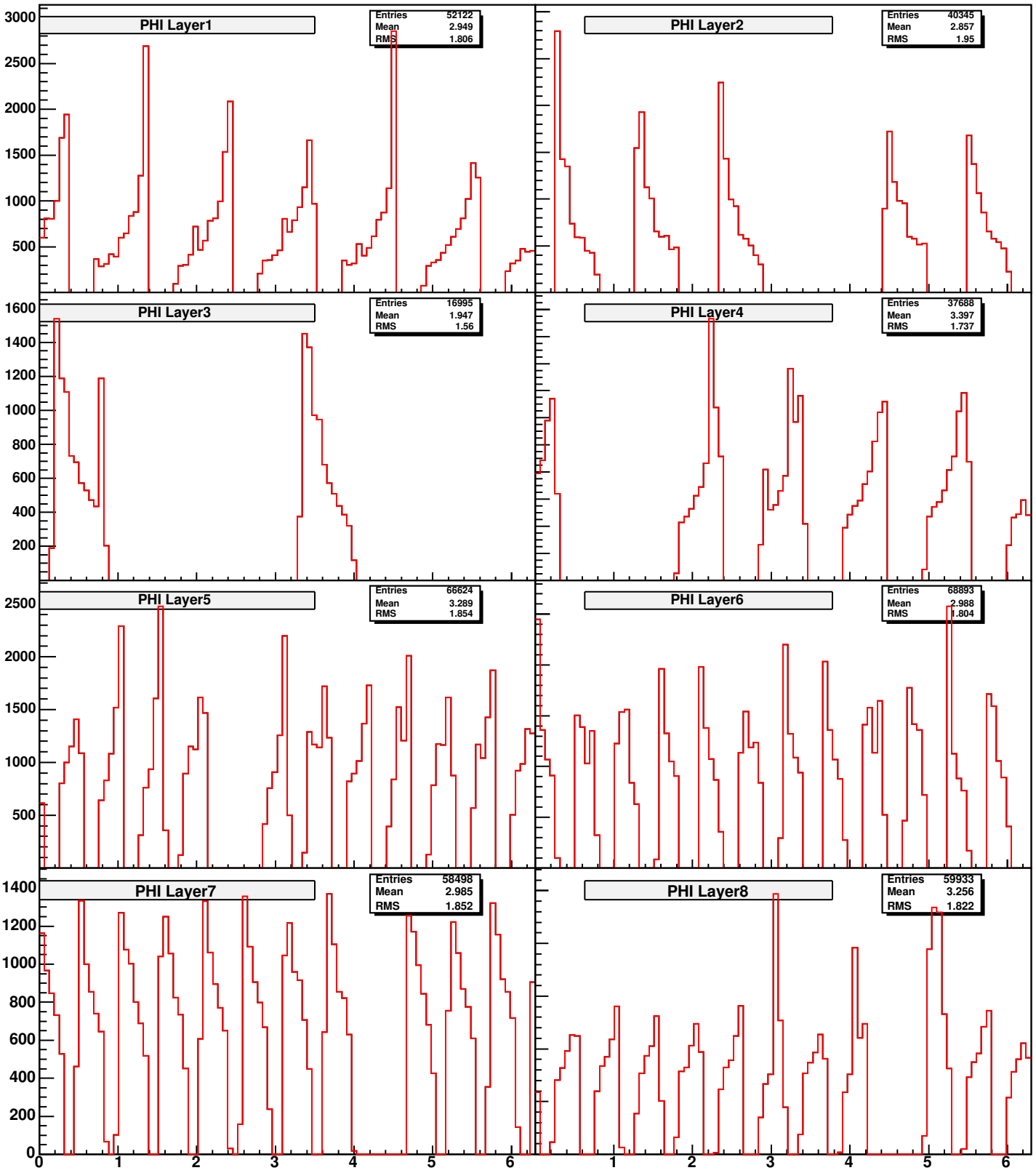


CPS Clusters (All Clusters)

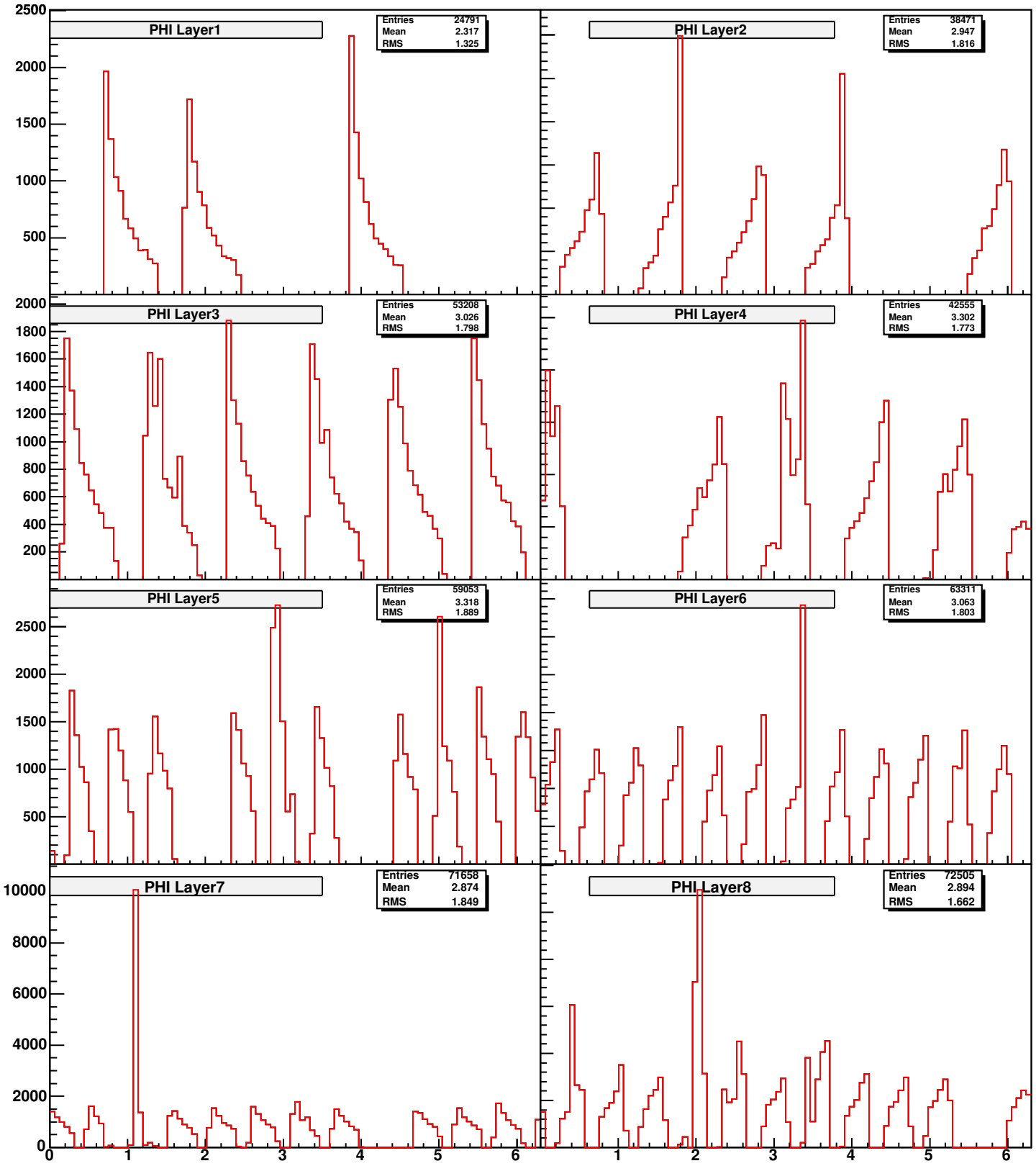

PHI
Entries 2520416
Mean 3.041
RMS 1.787
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 1092785
Mean 3.175
RMS 1.847
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

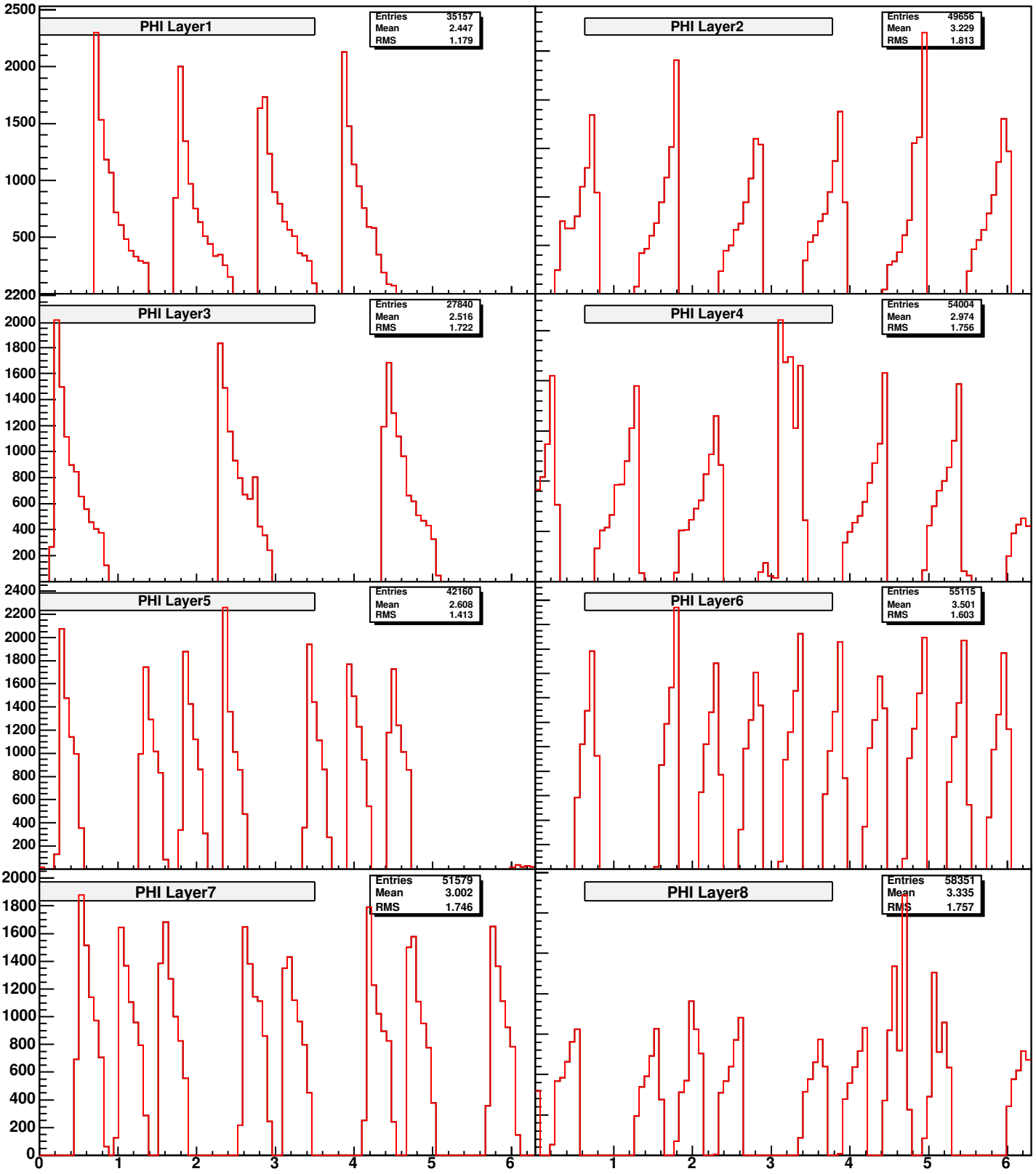

PHI HDisk All
Entries 393478
Mean 3.323
RMS 1.76
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



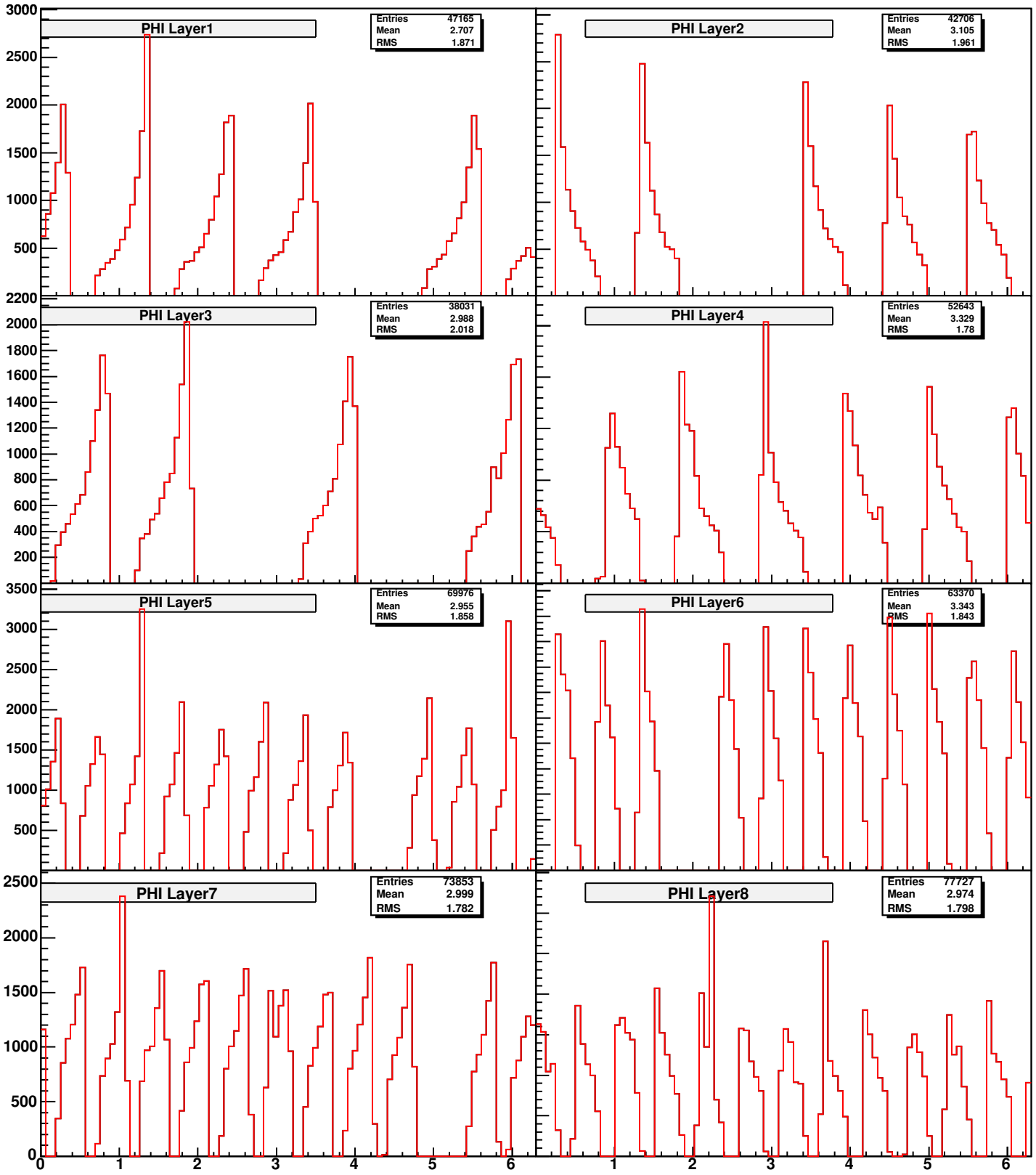
SmtClusters (ClustrBar1)



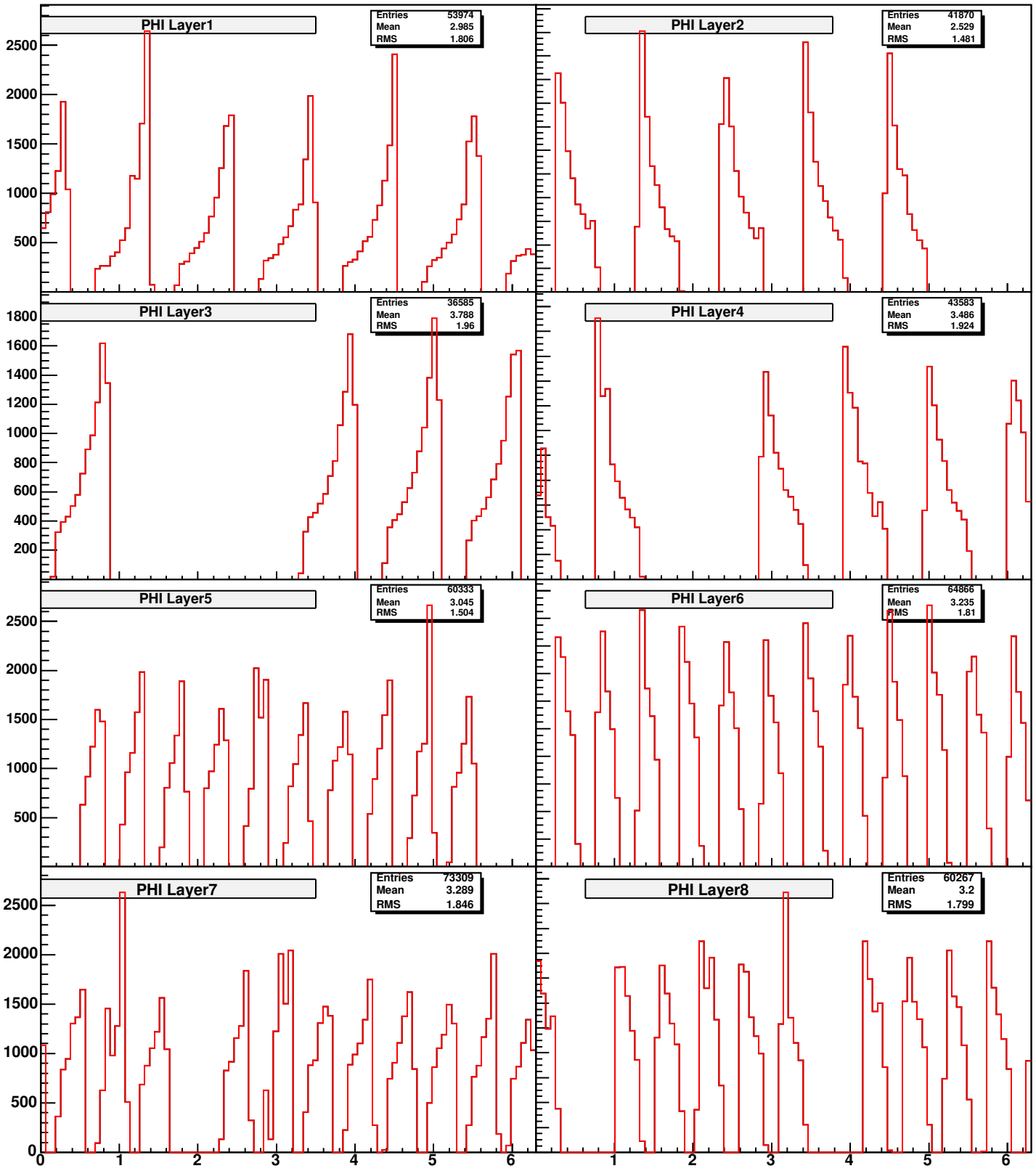
SmtClusters (ClustrBar2)



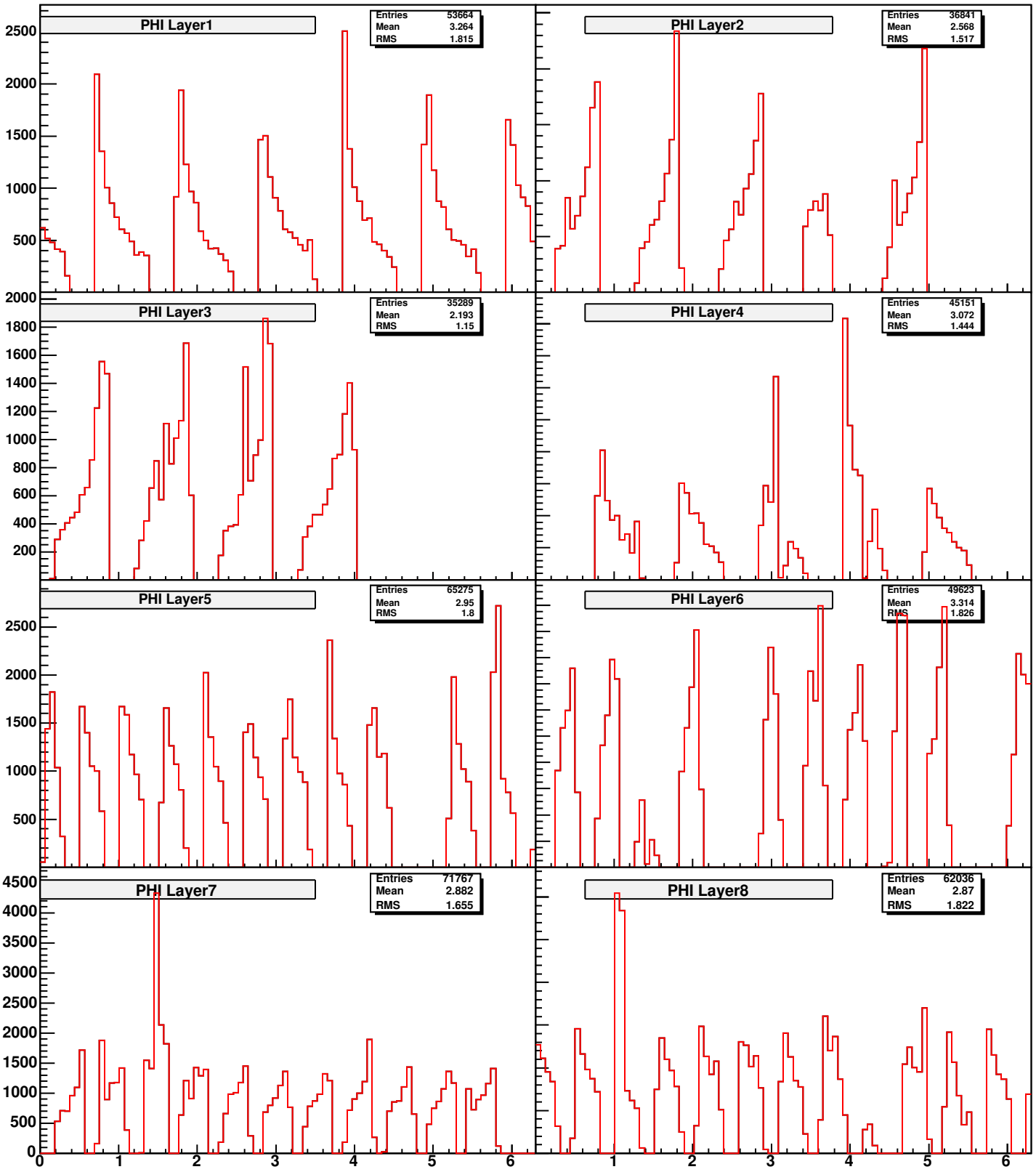
SmtClusters (ClustrBar3)



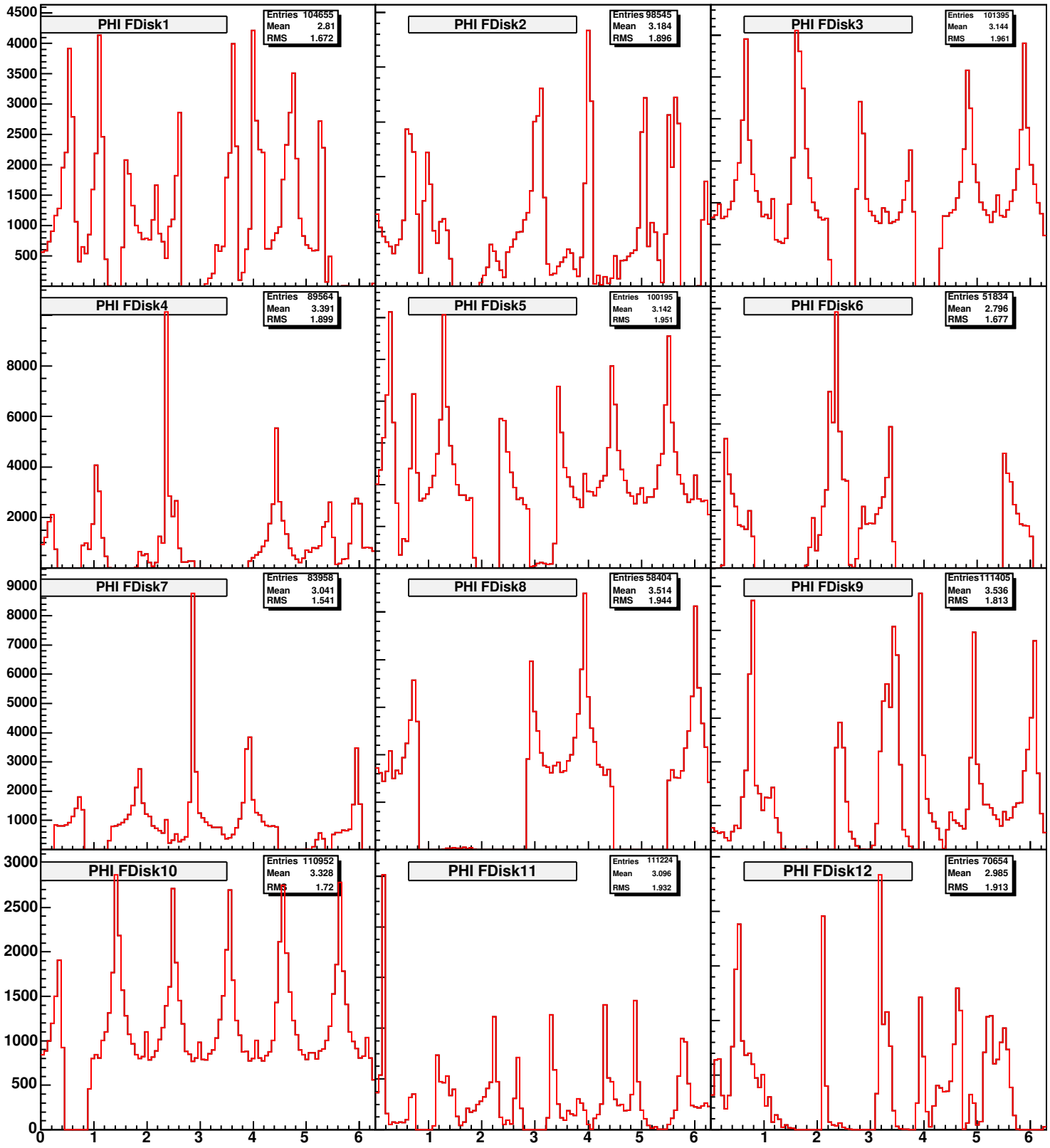
SmtClusters (ClustrBar4)



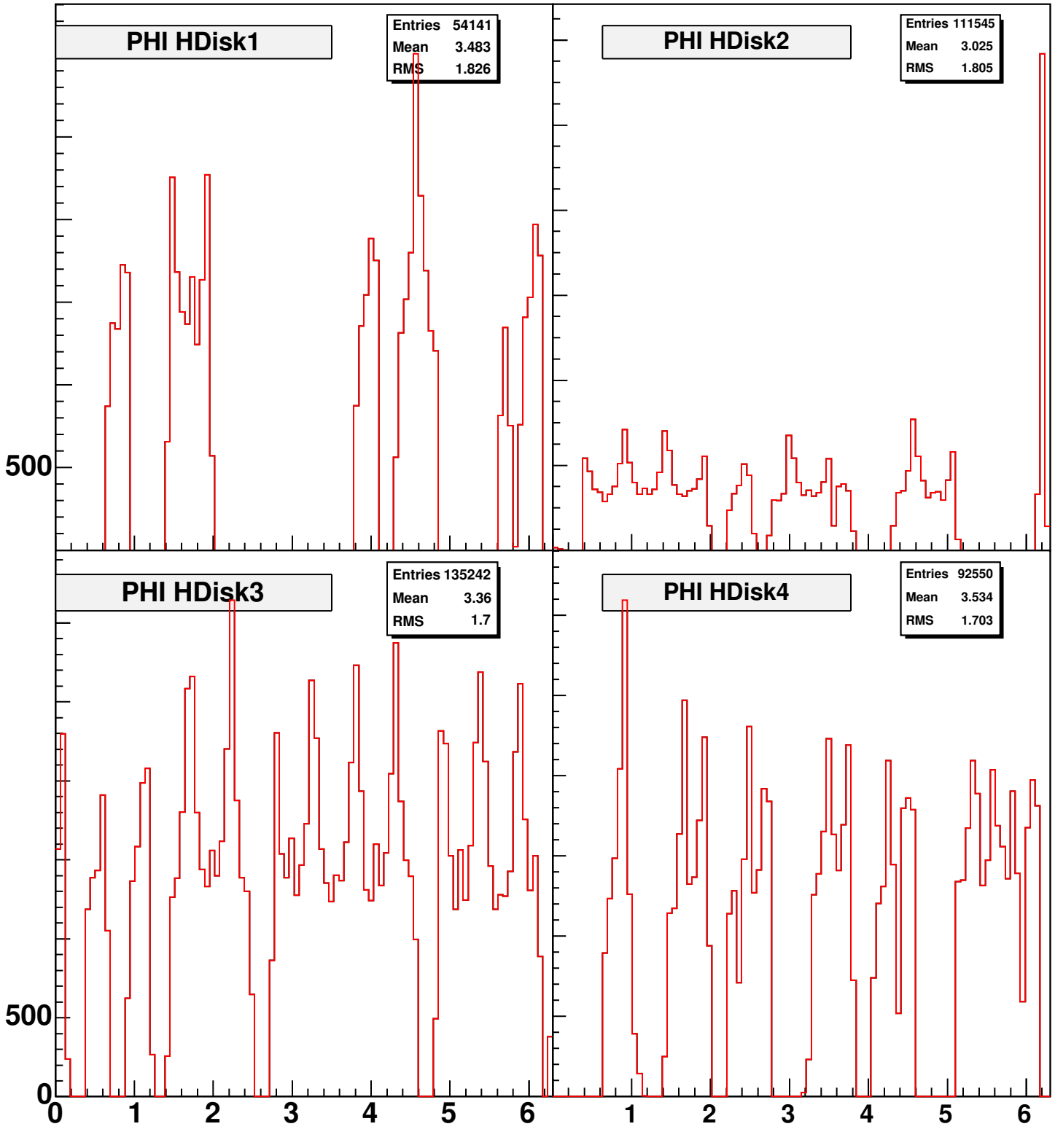
SmtClusters (ClustrBar5)



SmtClusters (ClustrBar6)



SmtClusters (FDiskClusters)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Entries 54141
Mean 3.483
RMS 1.826
PHI HDisk2
Entries 111545
Mean 3.025
RMS 1.805
PHI HDisk3
Entries 135242
Mean 3.36
RMS 1.7
PHI HDisk4
Entries 92550
Mean 3.534
RMS 1.703
500
500
0
0
1
2
3
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6
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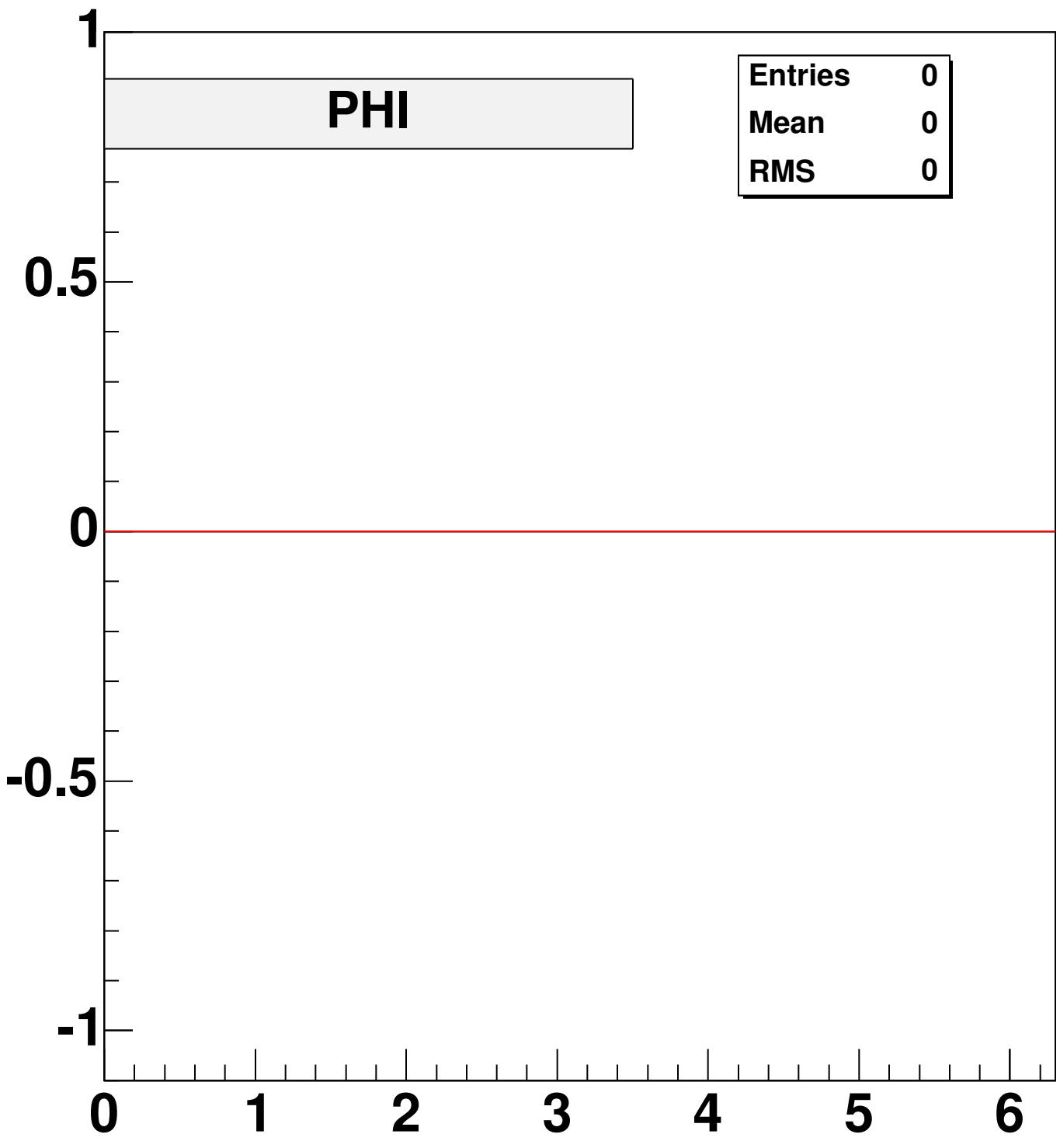
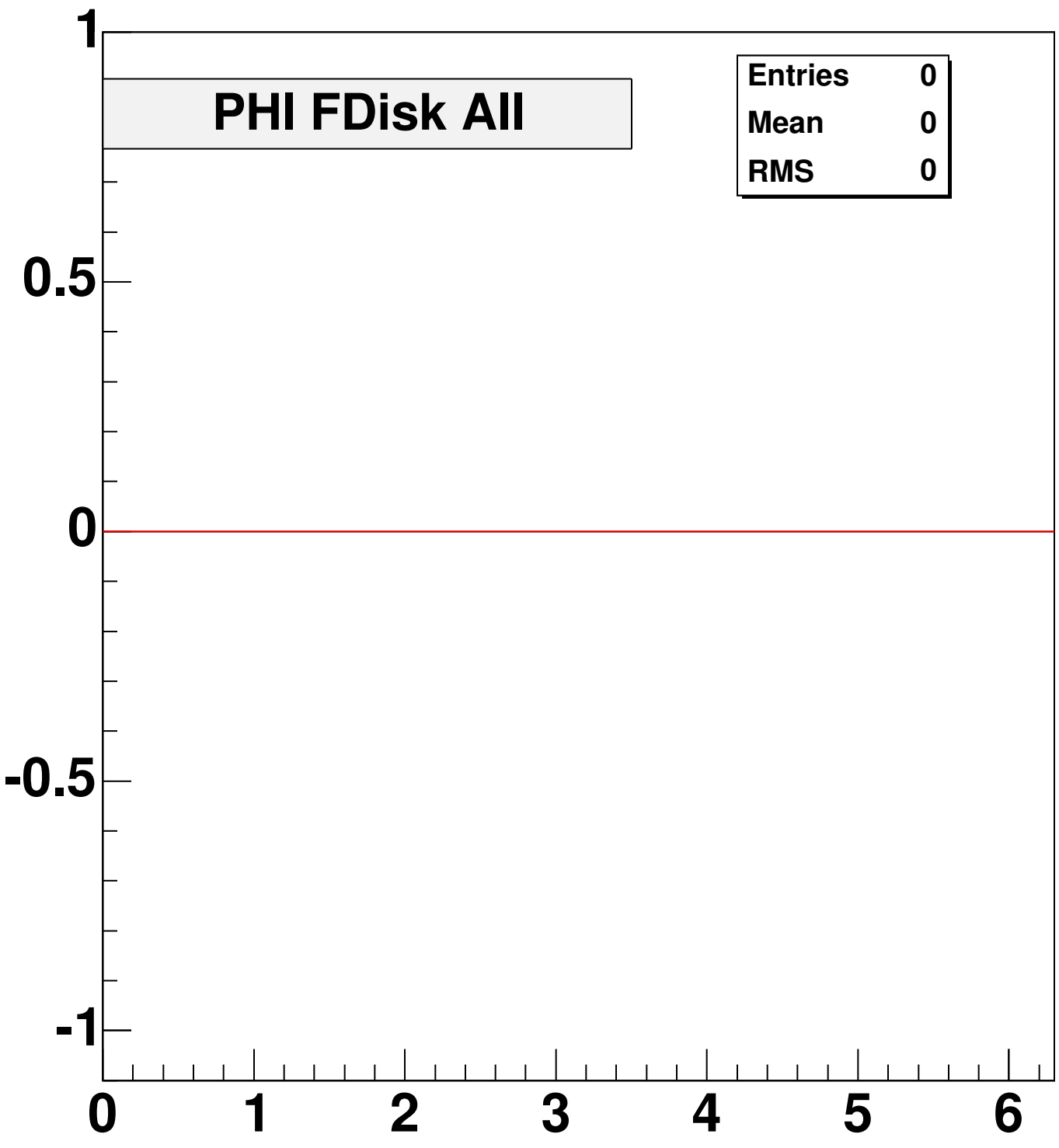
5
6
SmtClusters (HDiskClusters)


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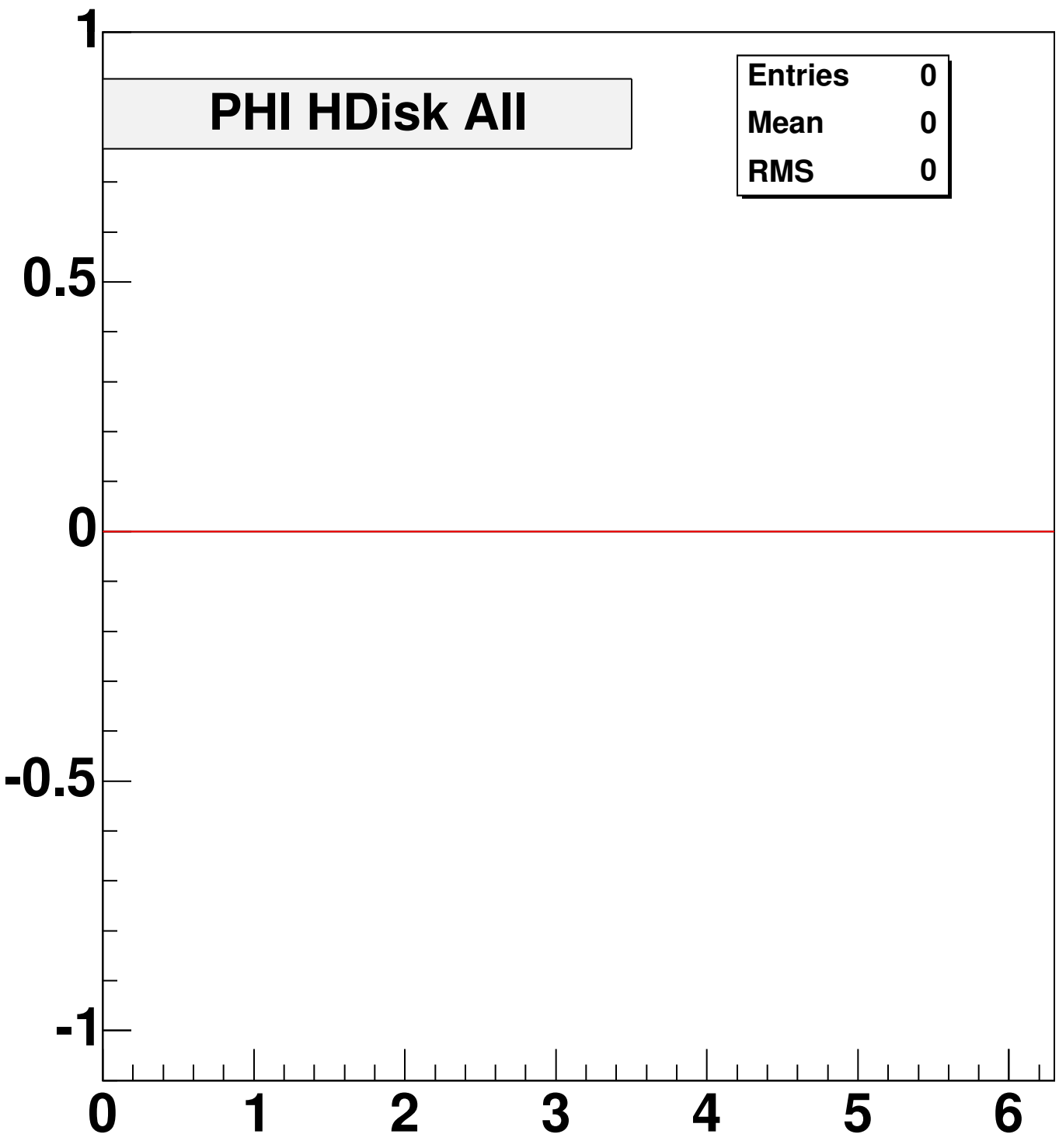
6
SmtClusters (allFDiskTClusters)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Mean 0
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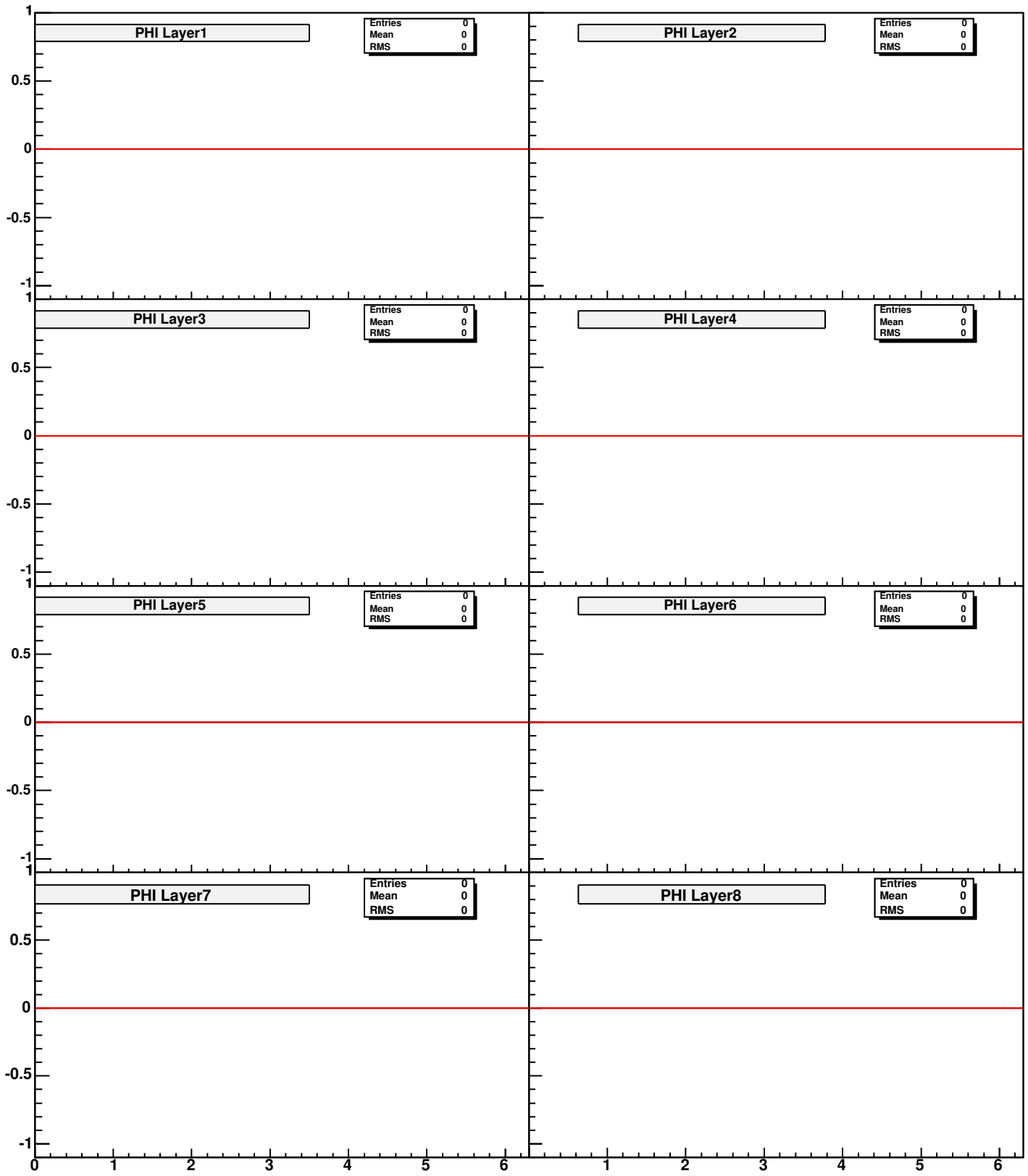
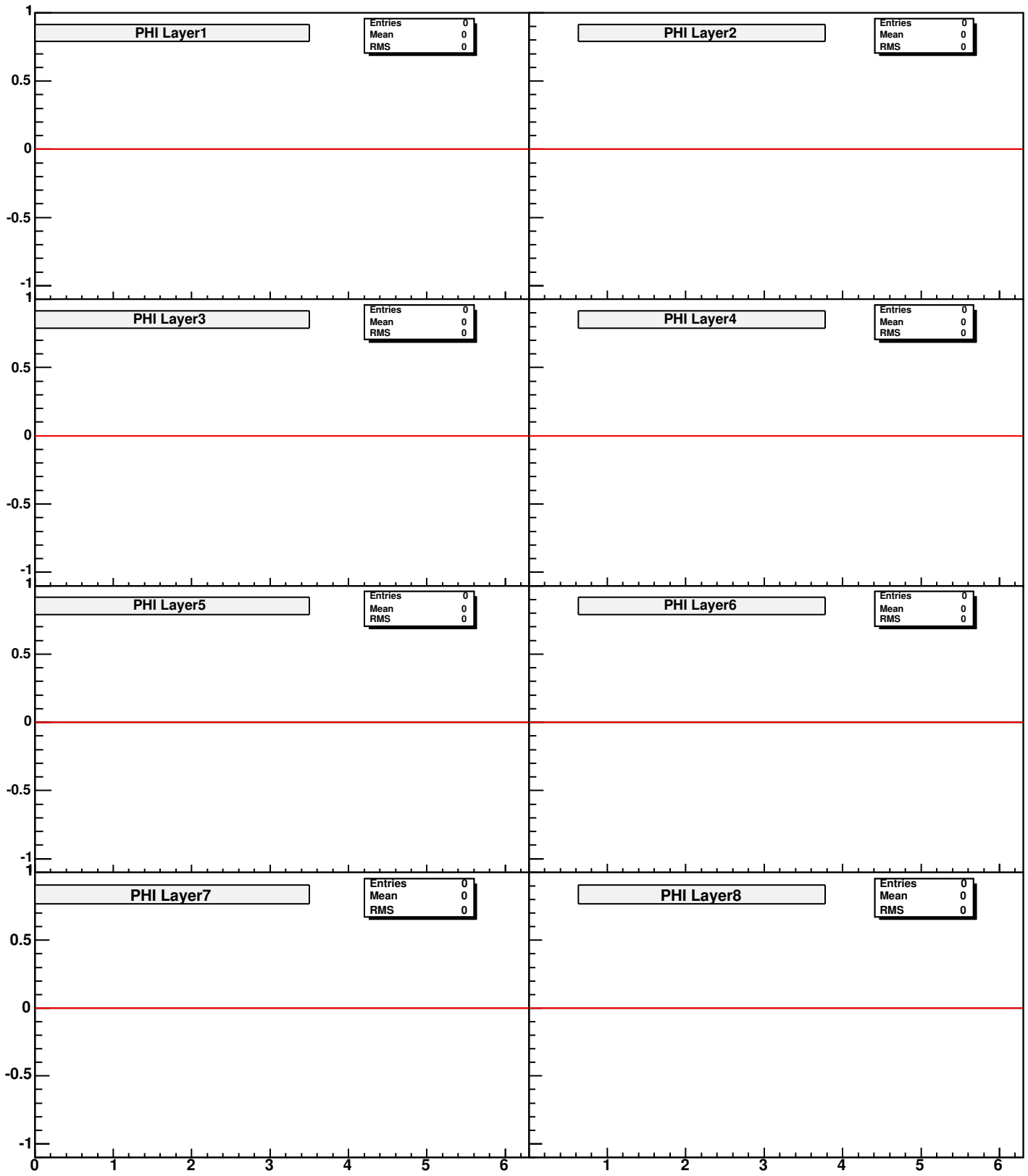
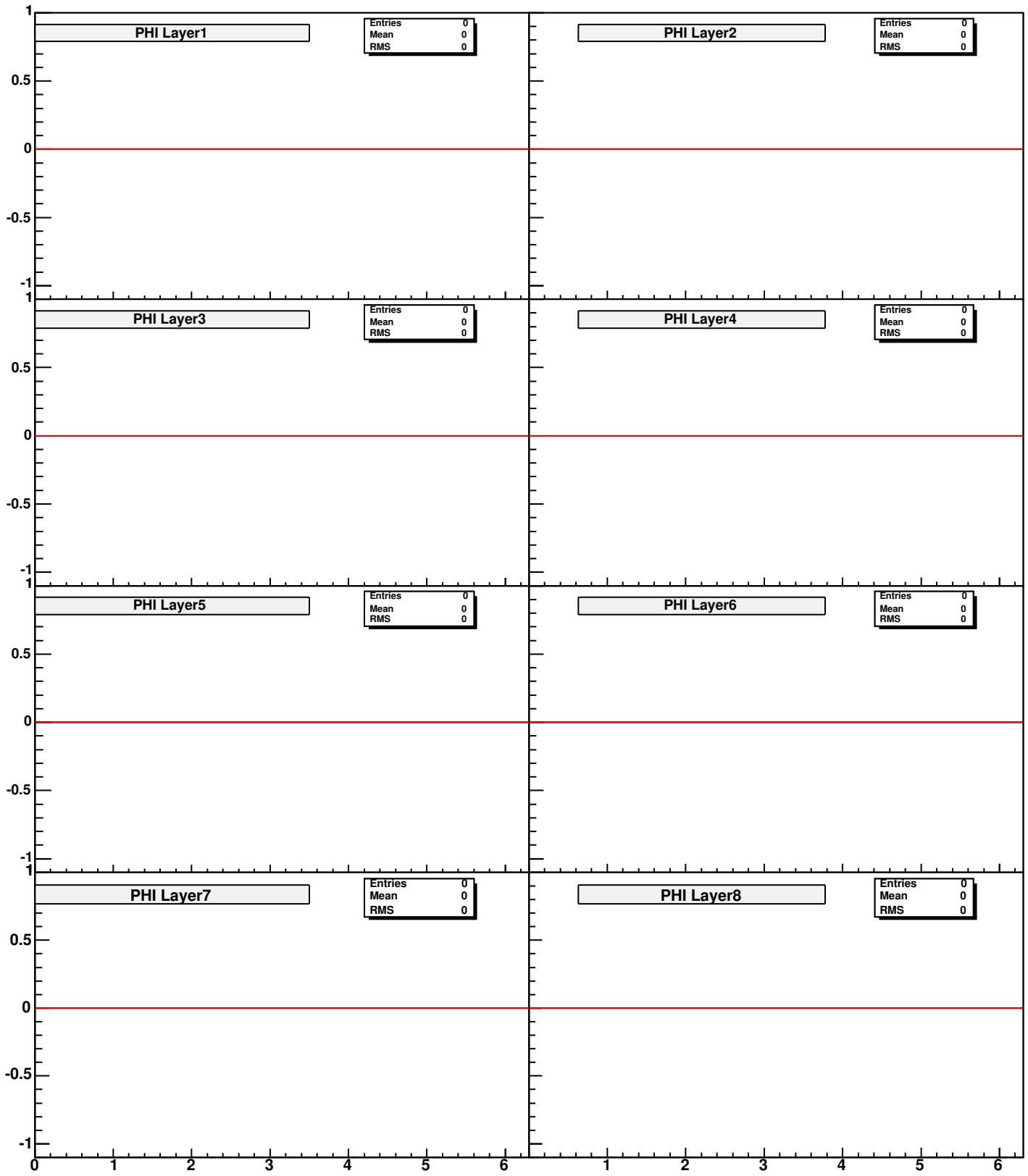
SmtClusters (allHDiskTClusters)



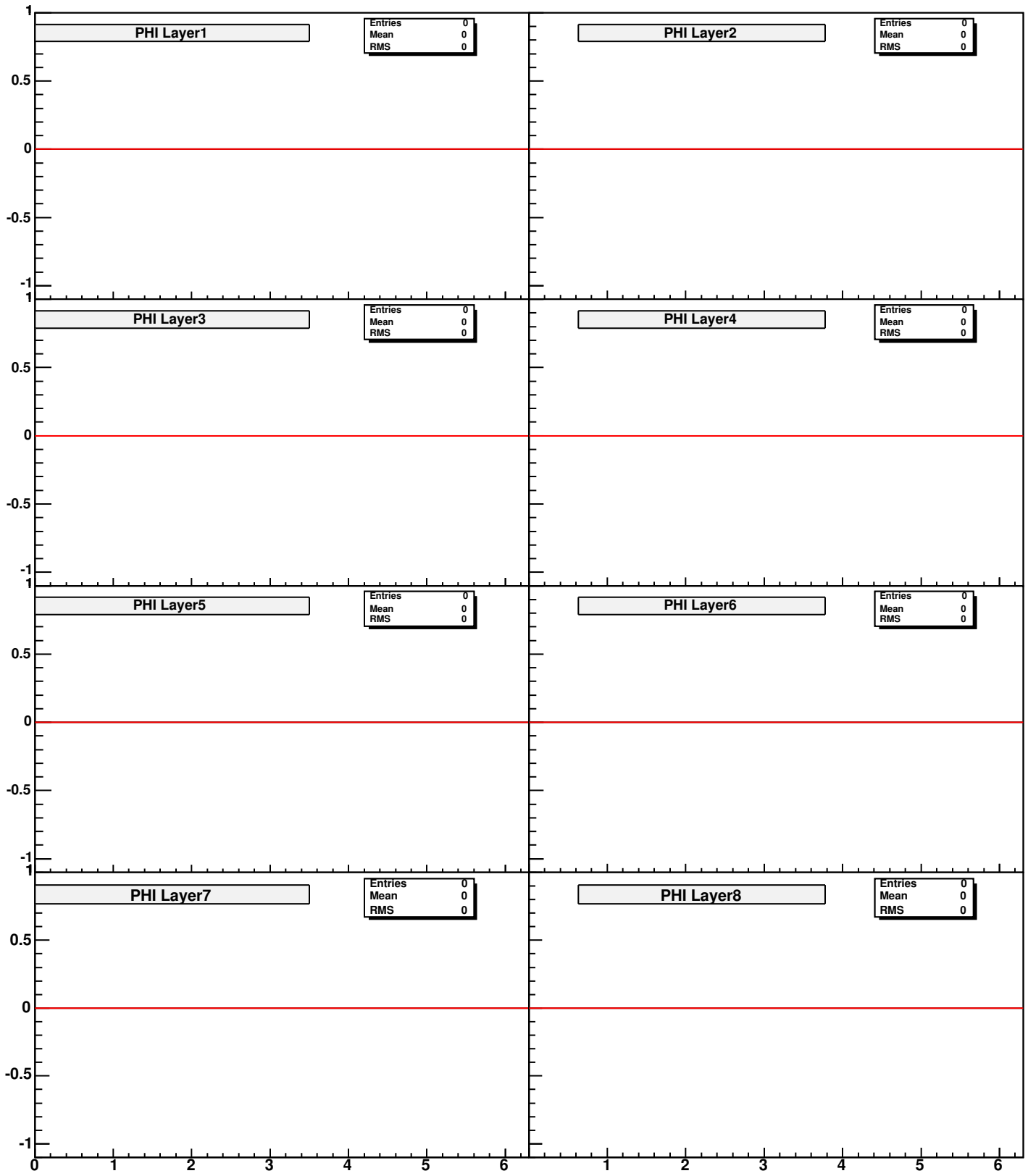
SmtClusters (TClustrBar1)



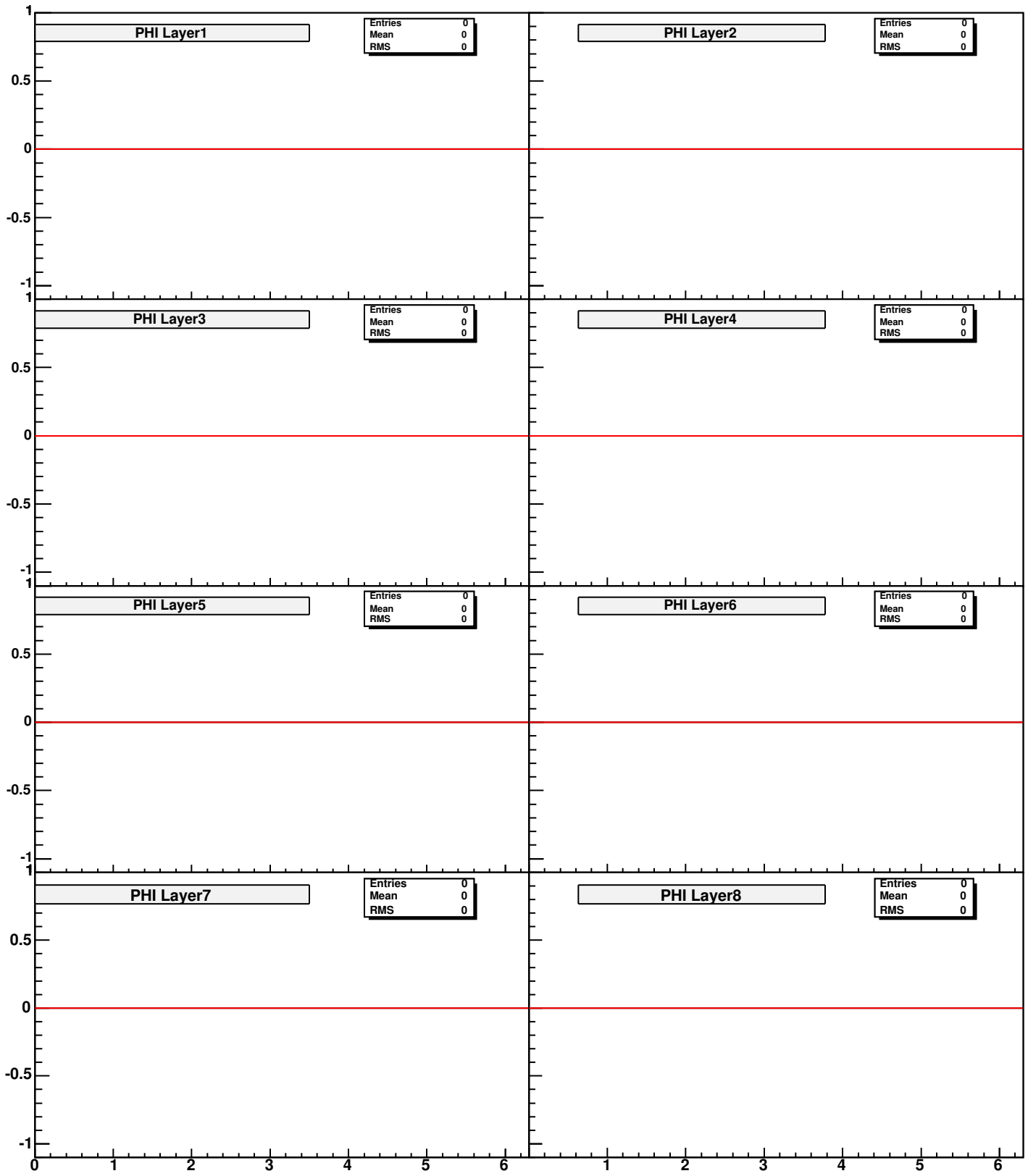
SmtClusters (TClustrBar2)



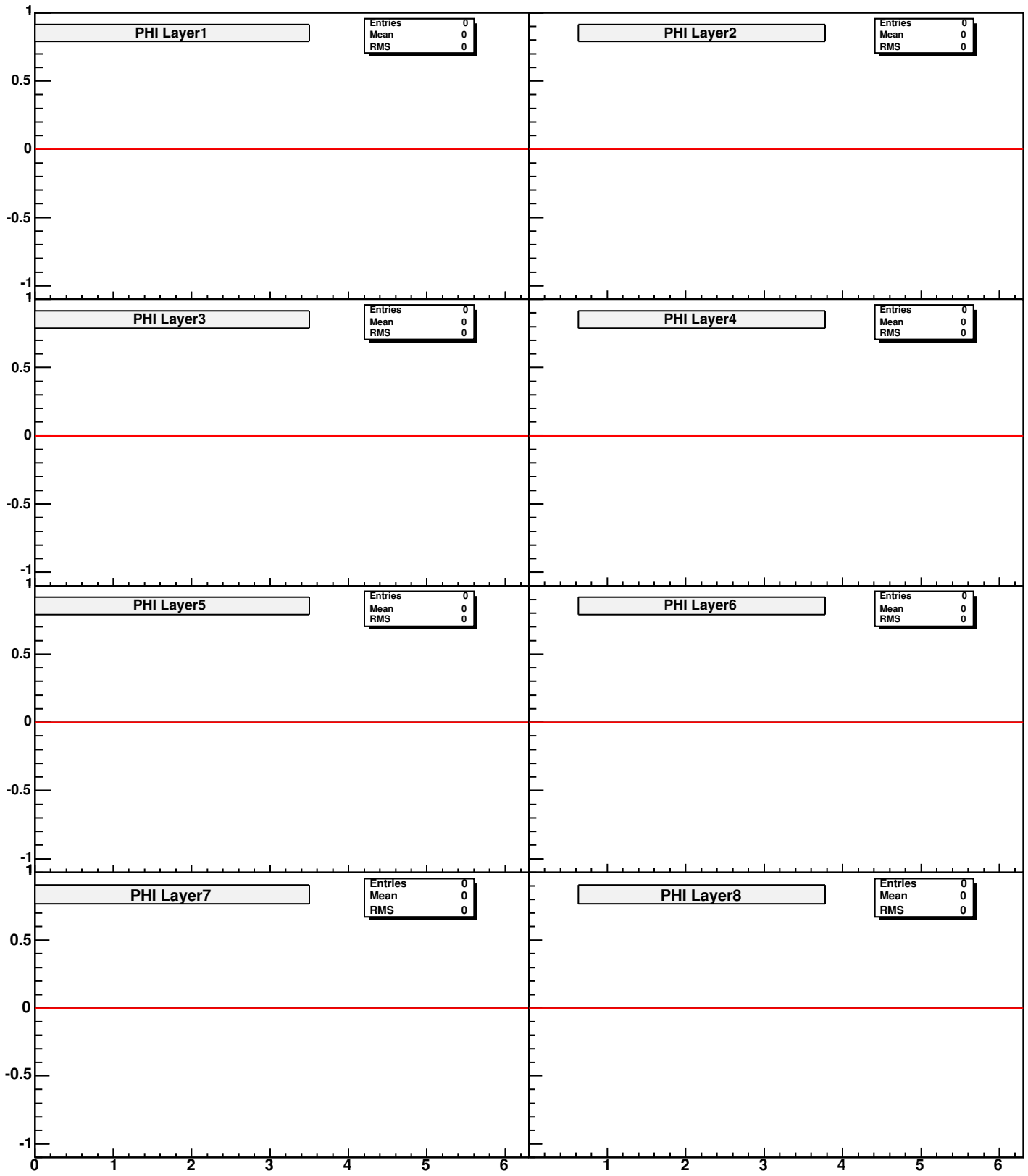
SmtClusters (TClustrBar3)



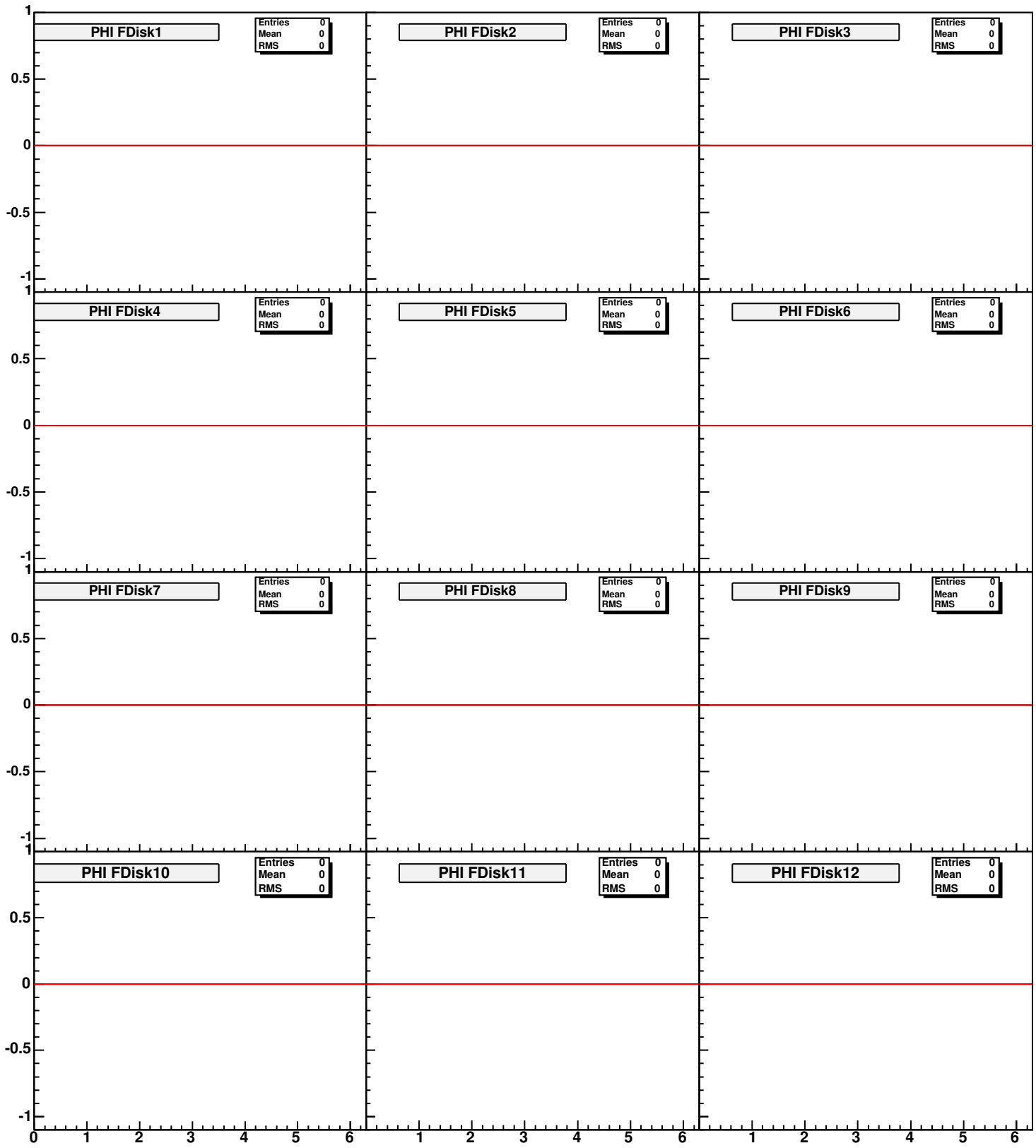
SmtClusters (TClustrBar4)



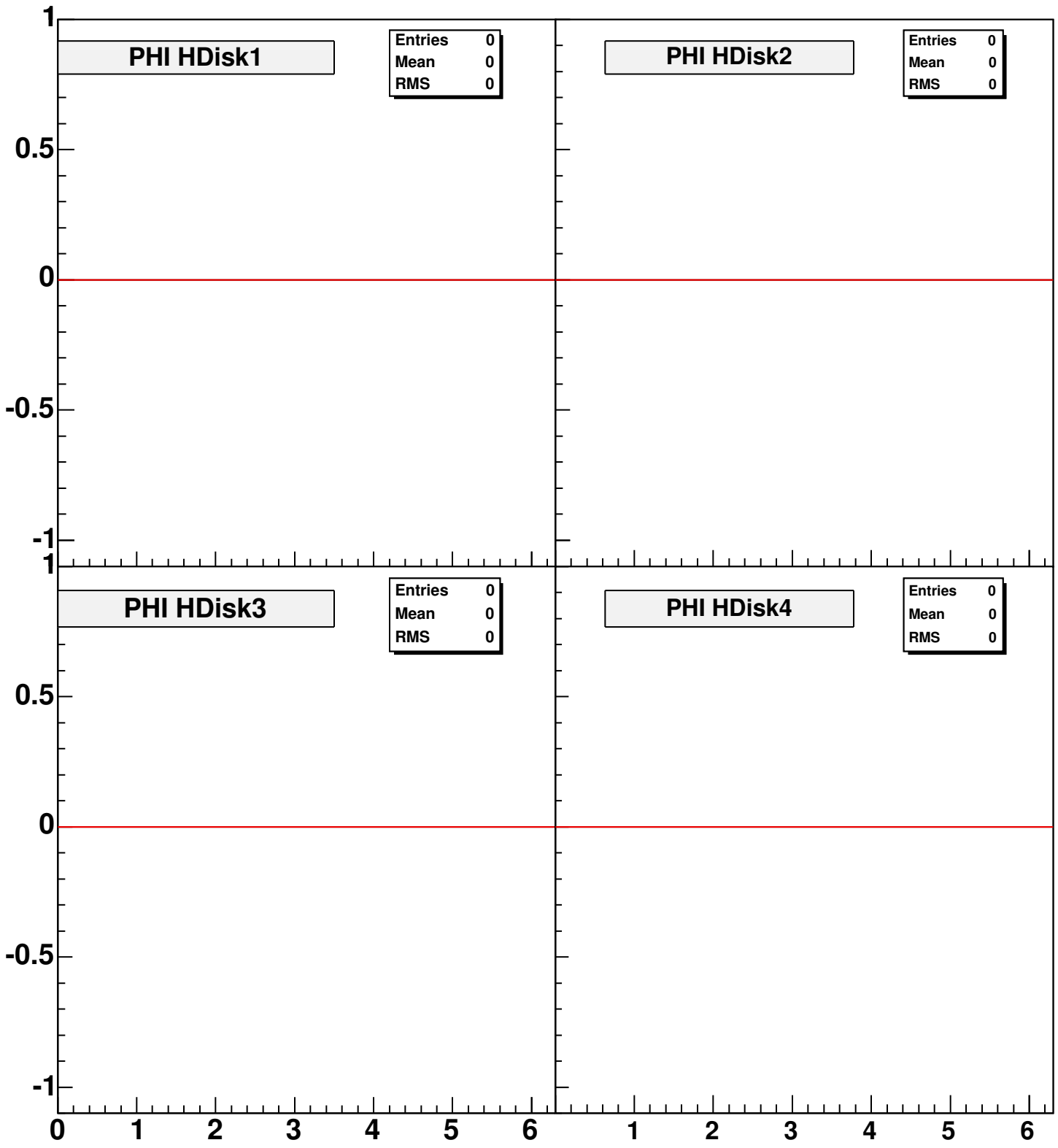
SmtClusters (TClustrBar5)



SmtClusters (TClustrBar6)



SmtClusters (FDiskTClusters)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Entries 0
Mean 0
RMS 0
PHI HDisk2
Entries 0
Mean 0
RMS 0
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Entries 0
Mean 0
RMS 0
PHI HDisk4
Entries 0
Mean 0
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-1
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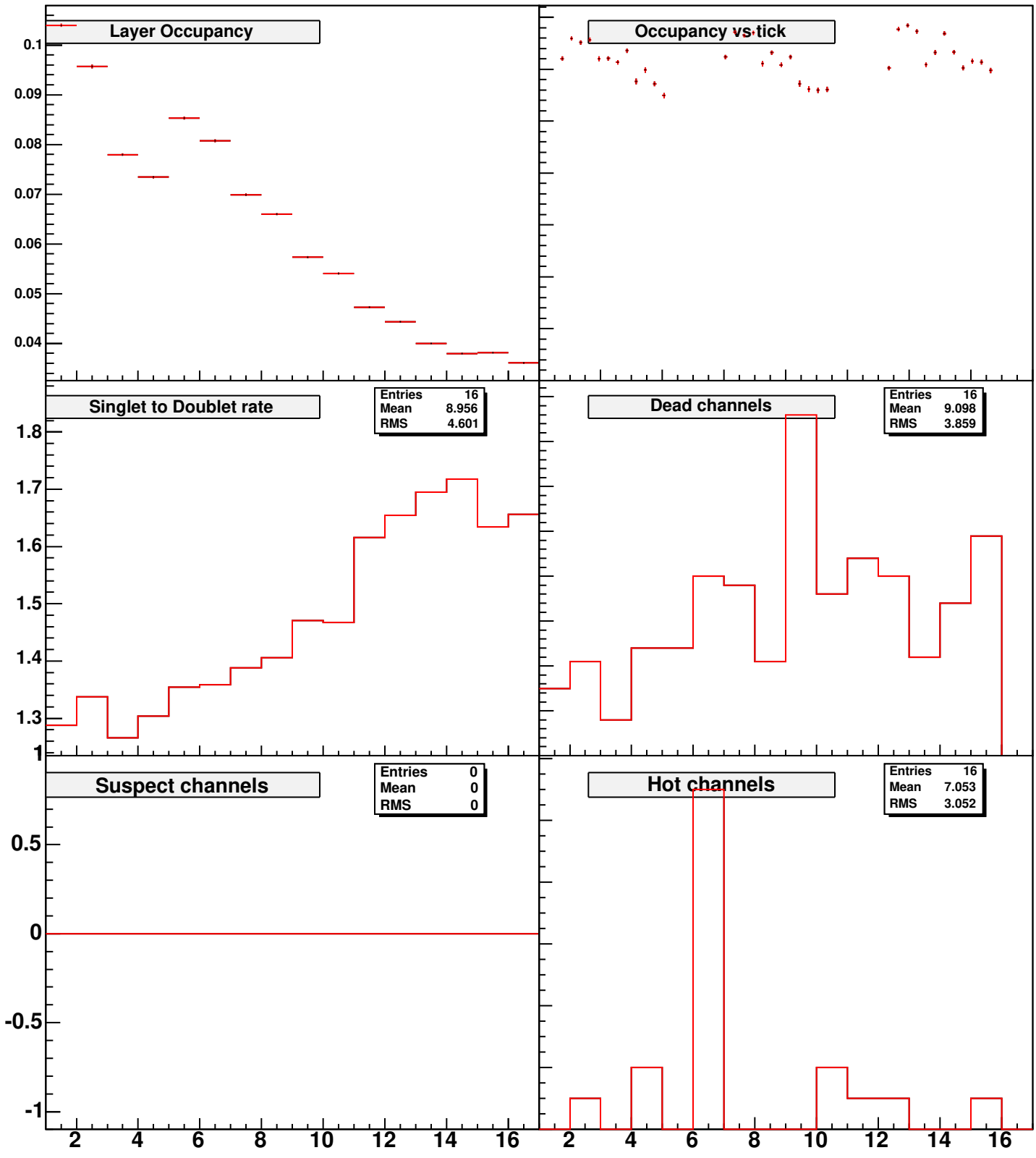
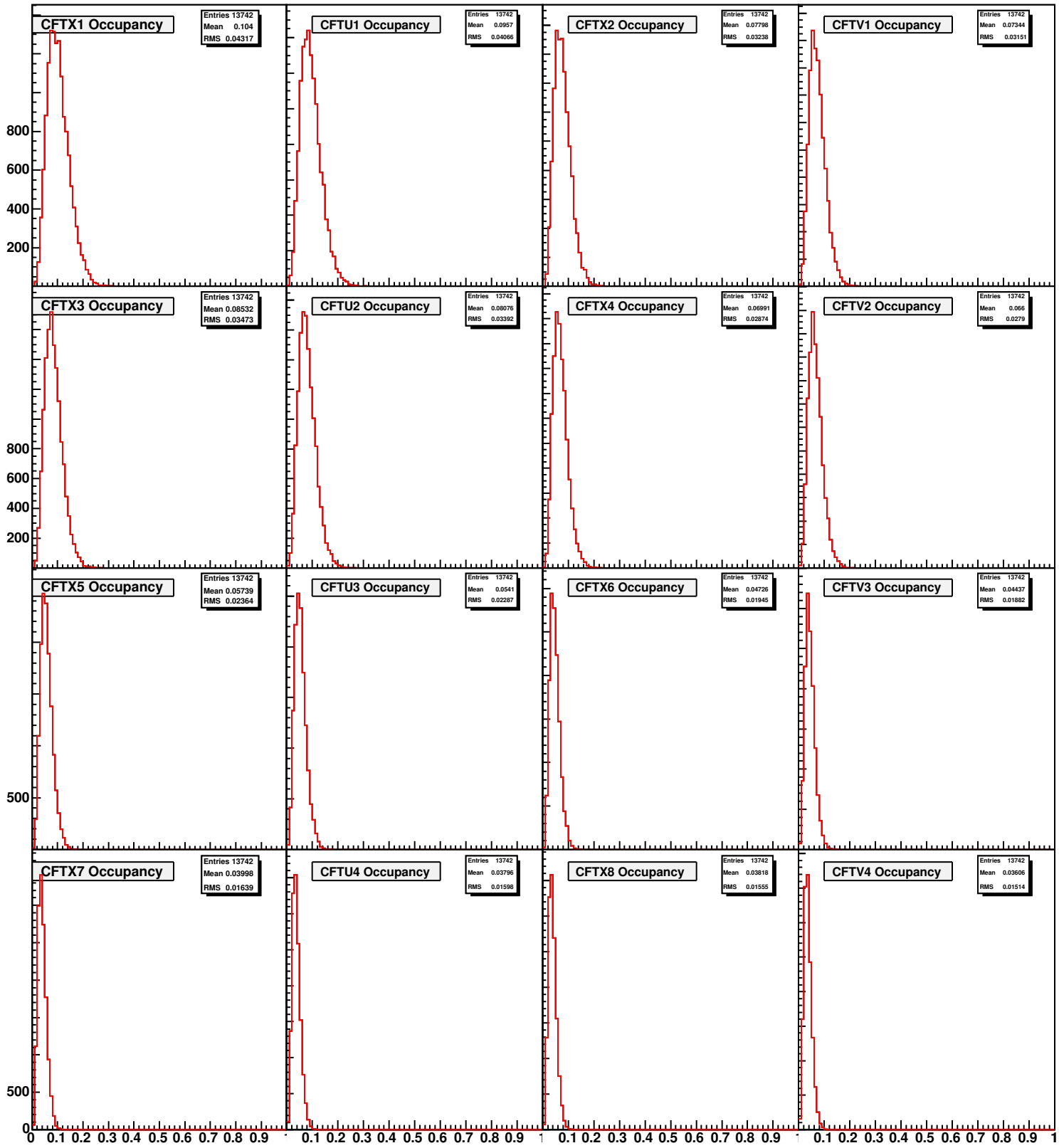
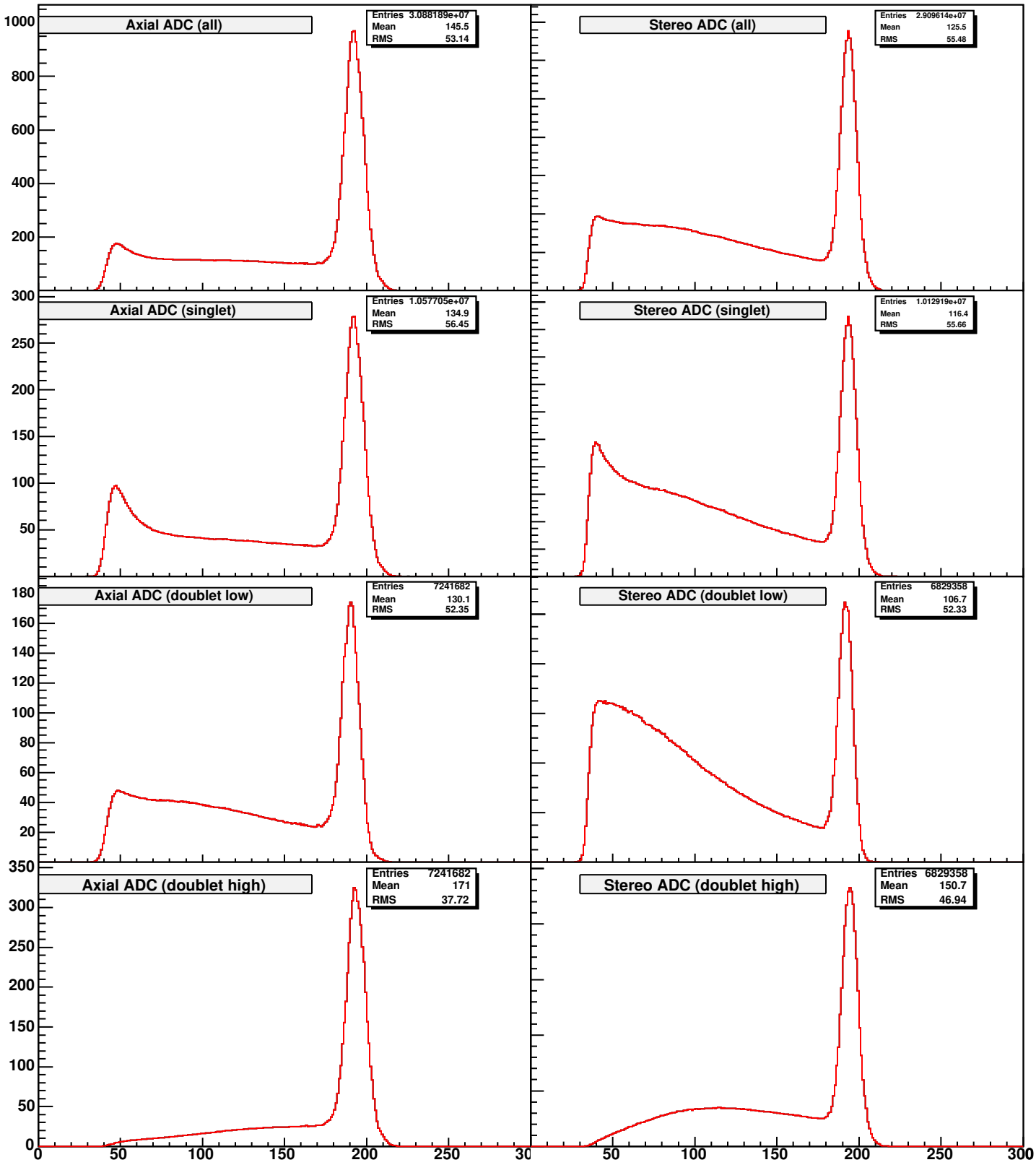
6
SmtClusters (HDiskTClusters)



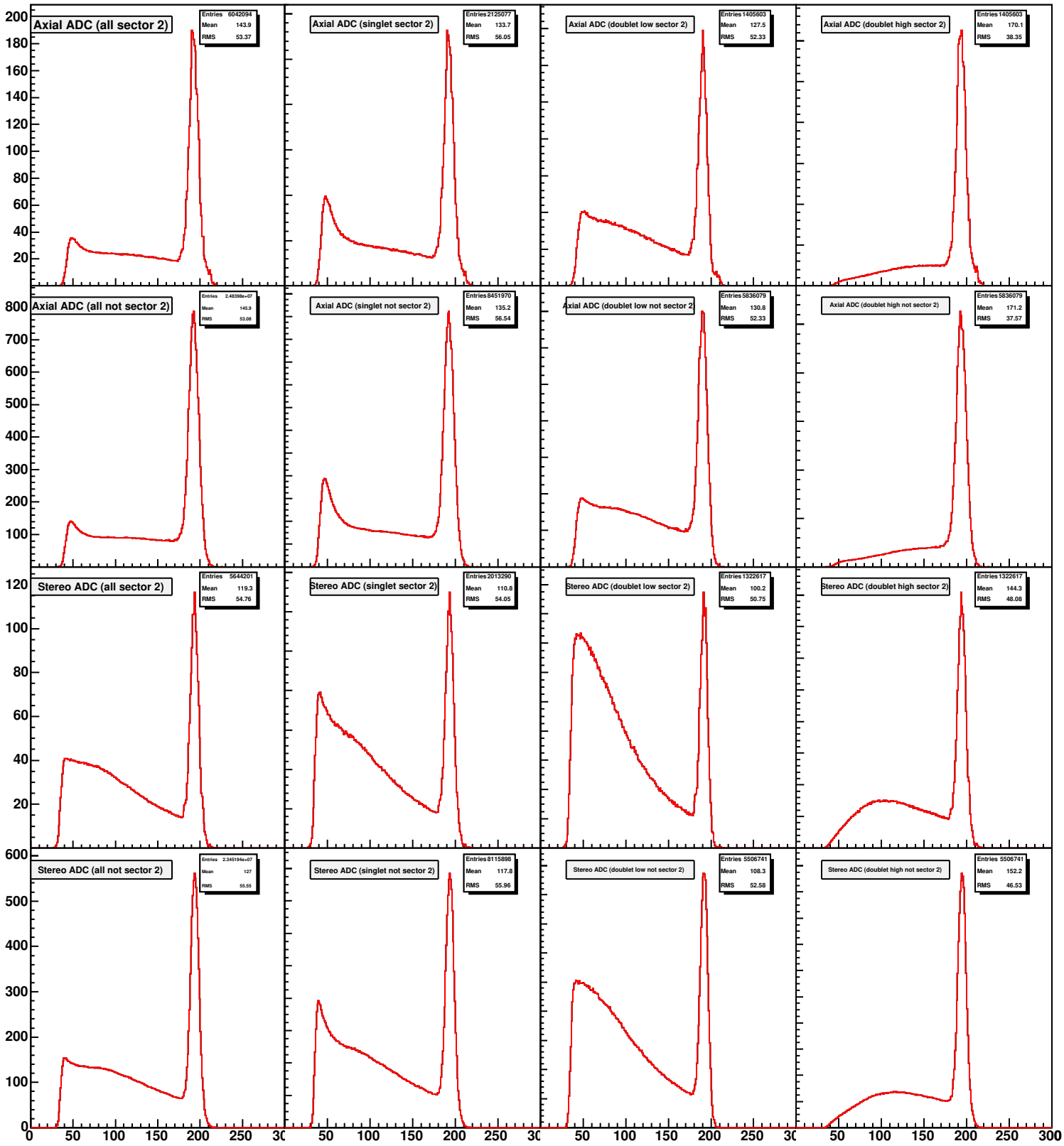
CFT Summary (All Clusters)



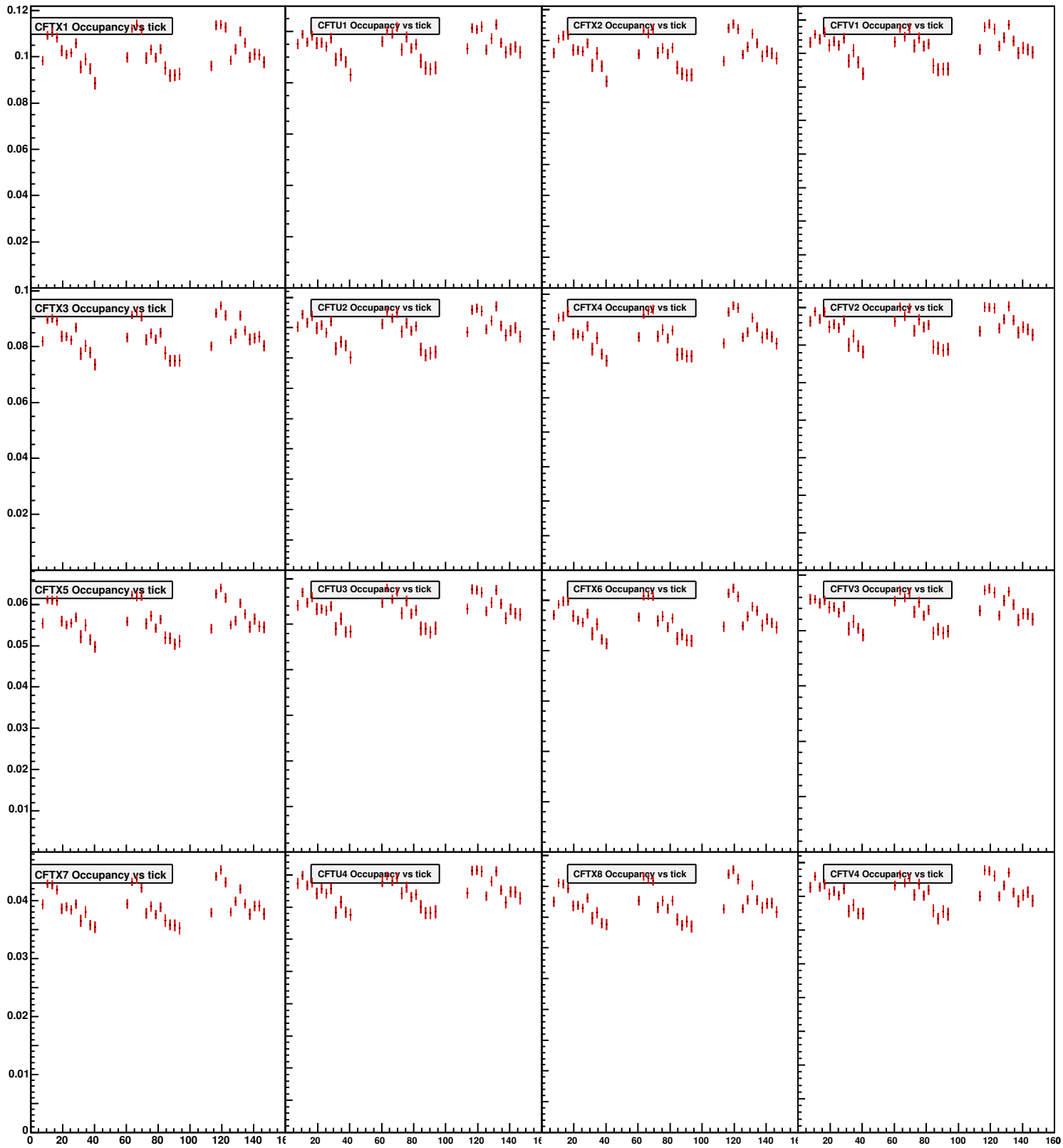
CFT Occupancy (All Clusters)



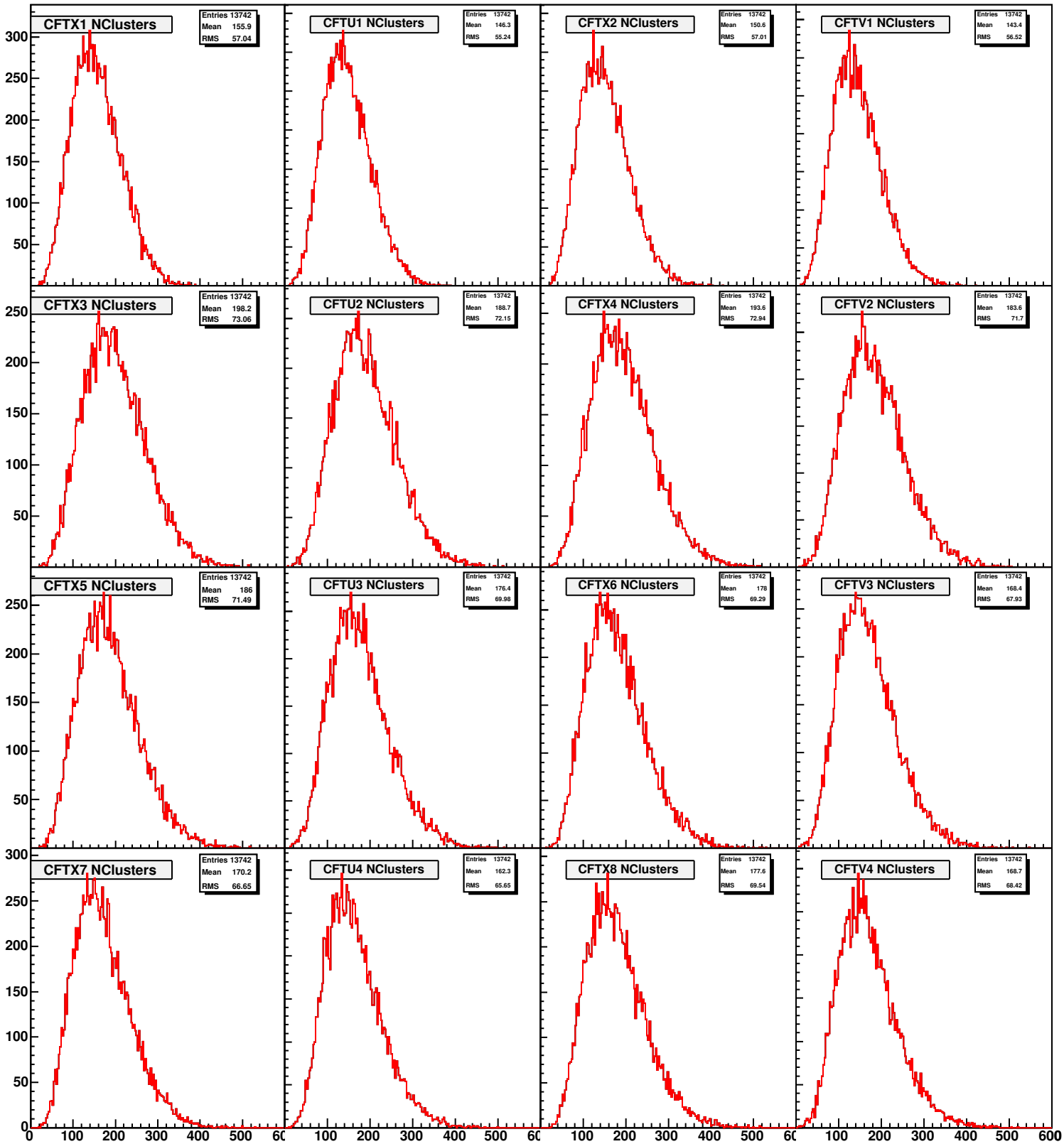
CFT ADC Summary (All Clusters)



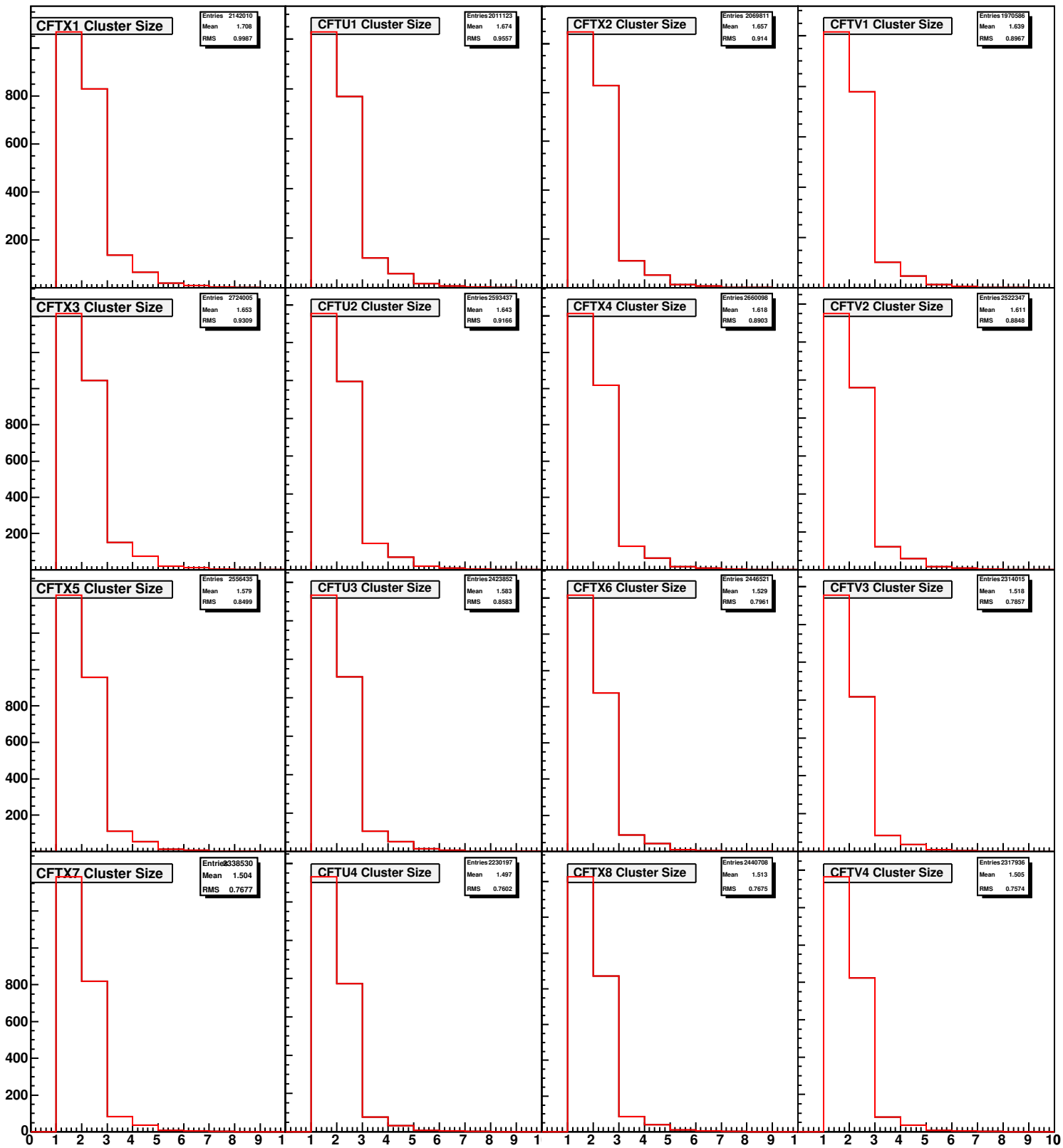
CFT ADC Summary By Sector (All Clusters)



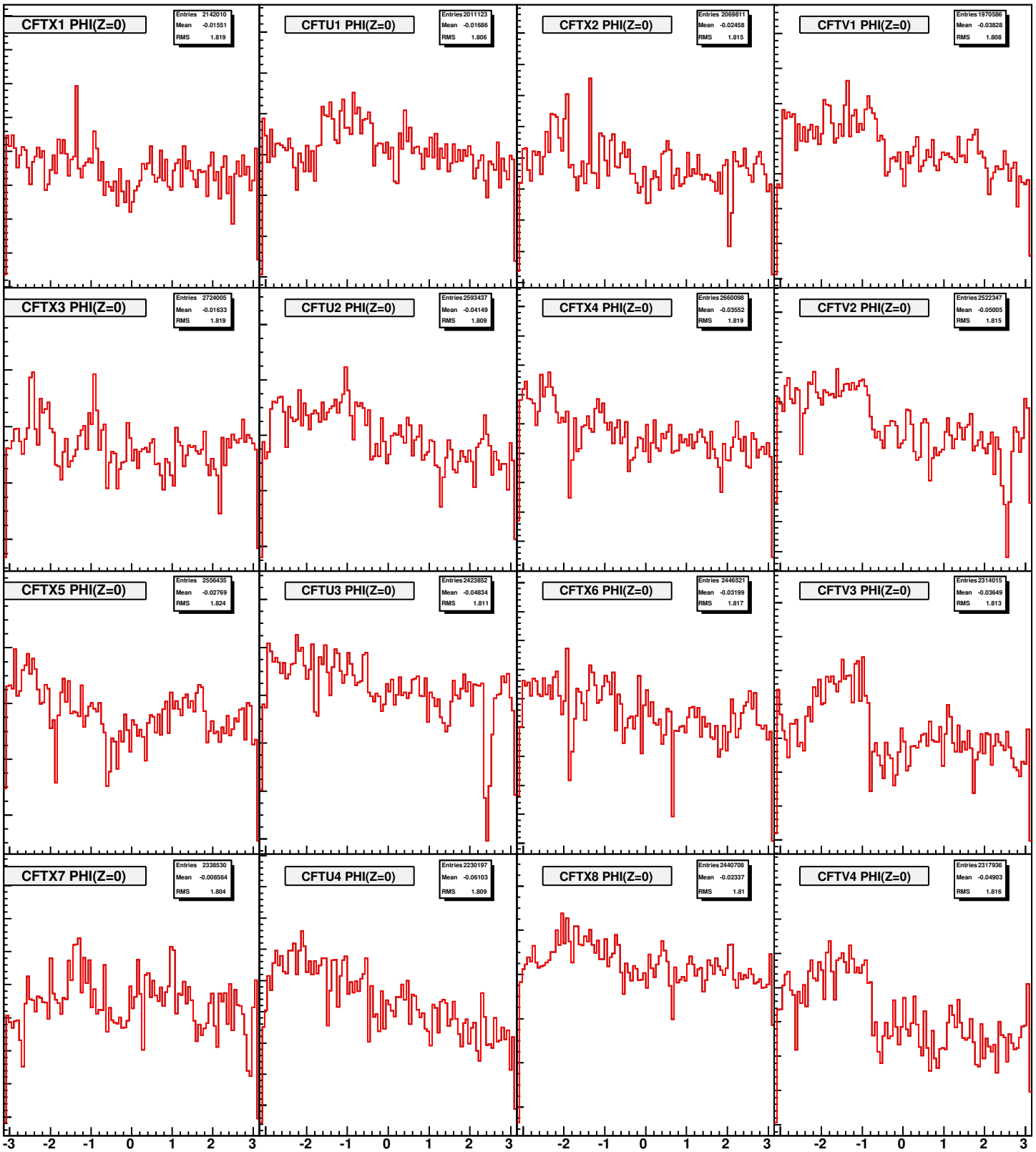
CFT Occupancy vs Tick (All Clusters)



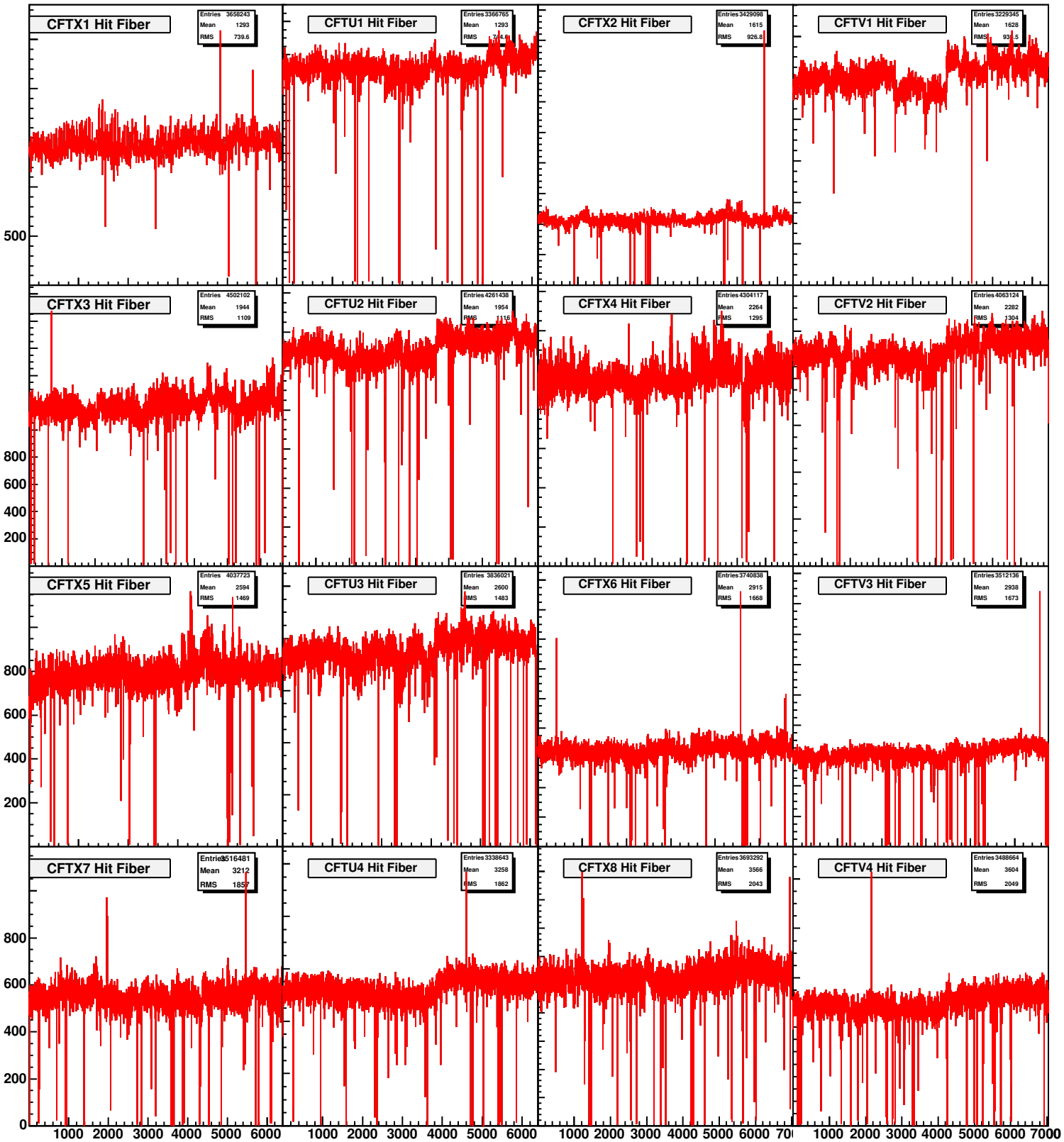
CFT NClusters (All Clusters)



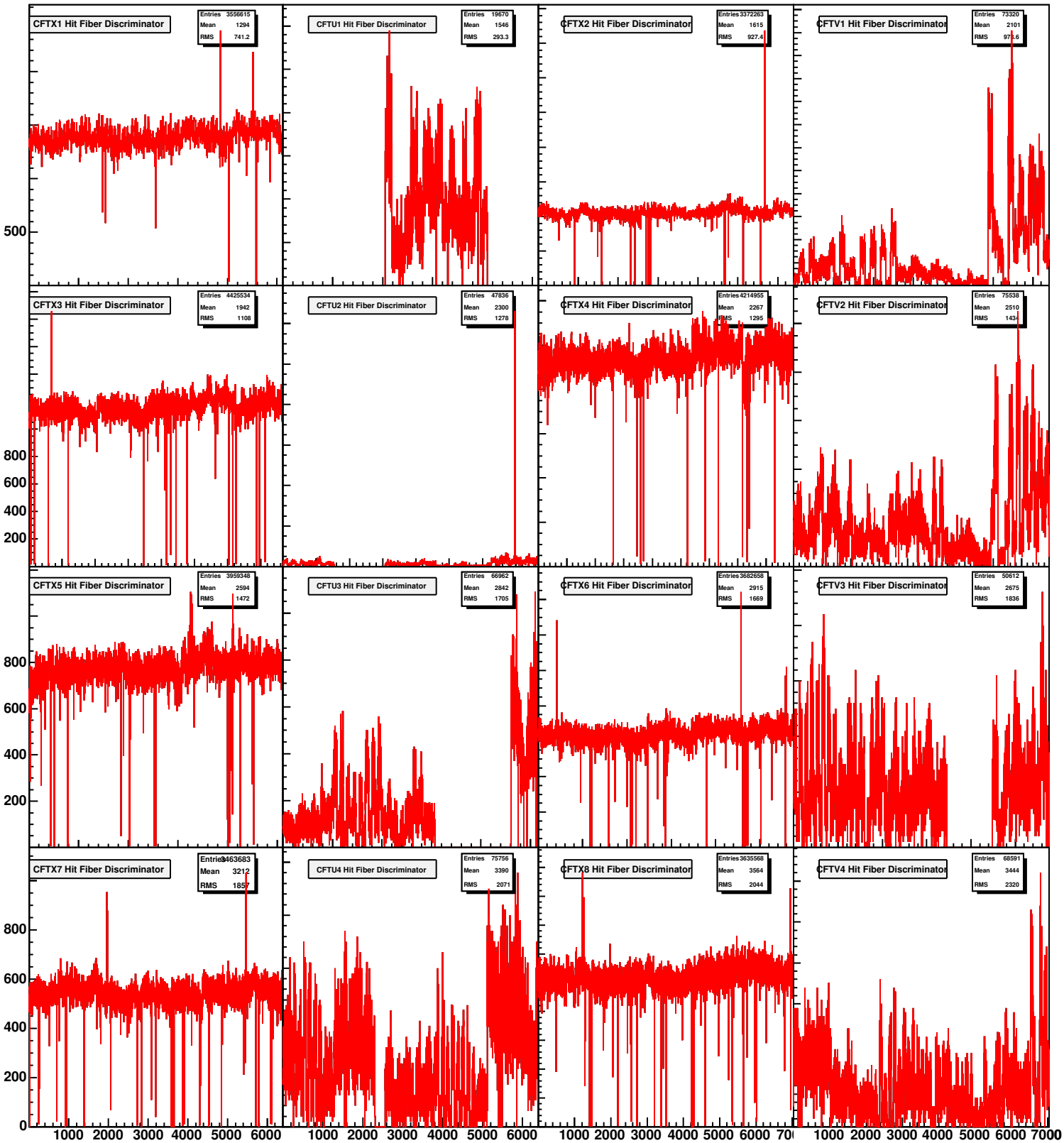
CFT Cluster Size (All Clusters)



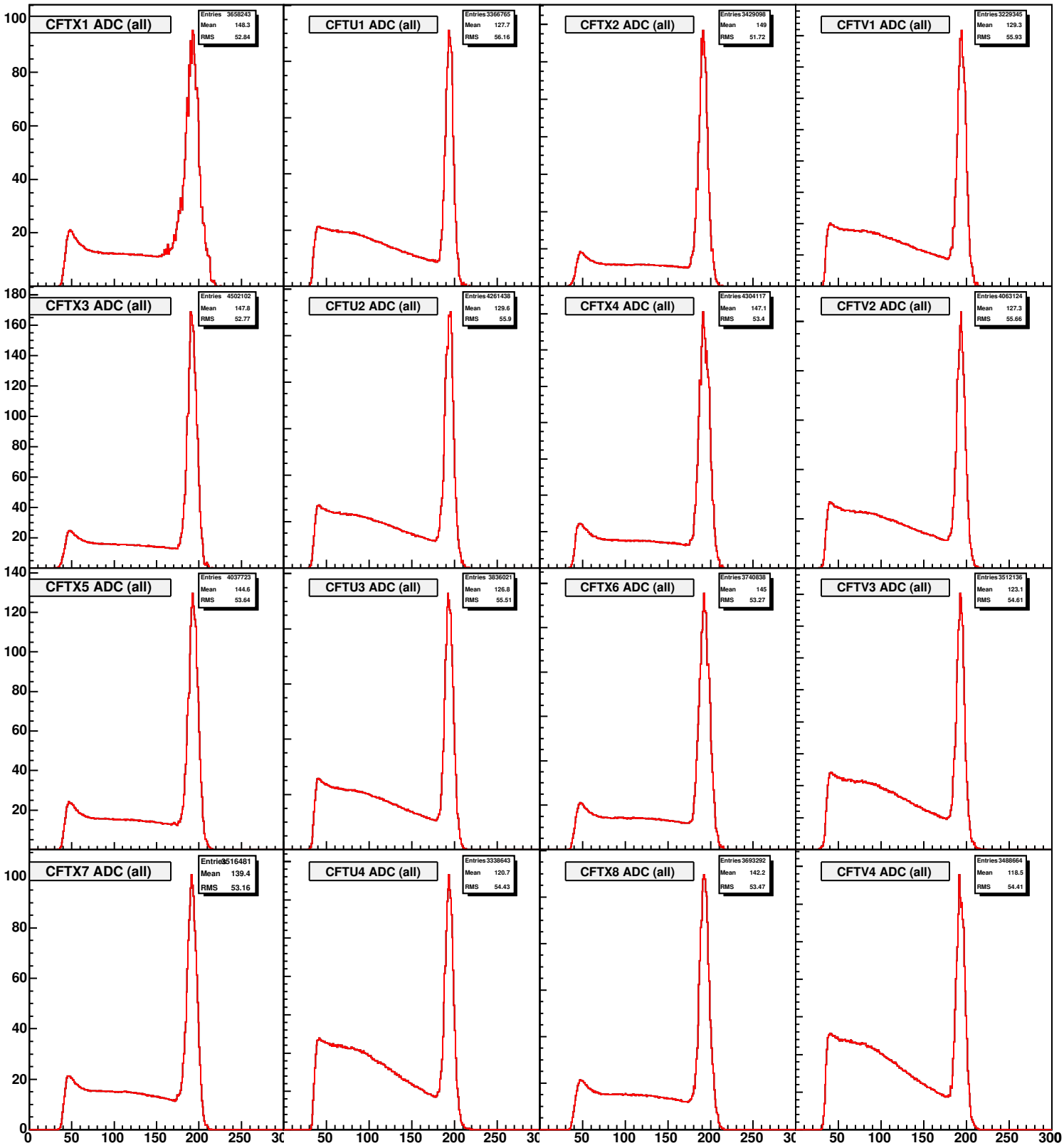
CFT PHI(Z=0) (All Clusters)



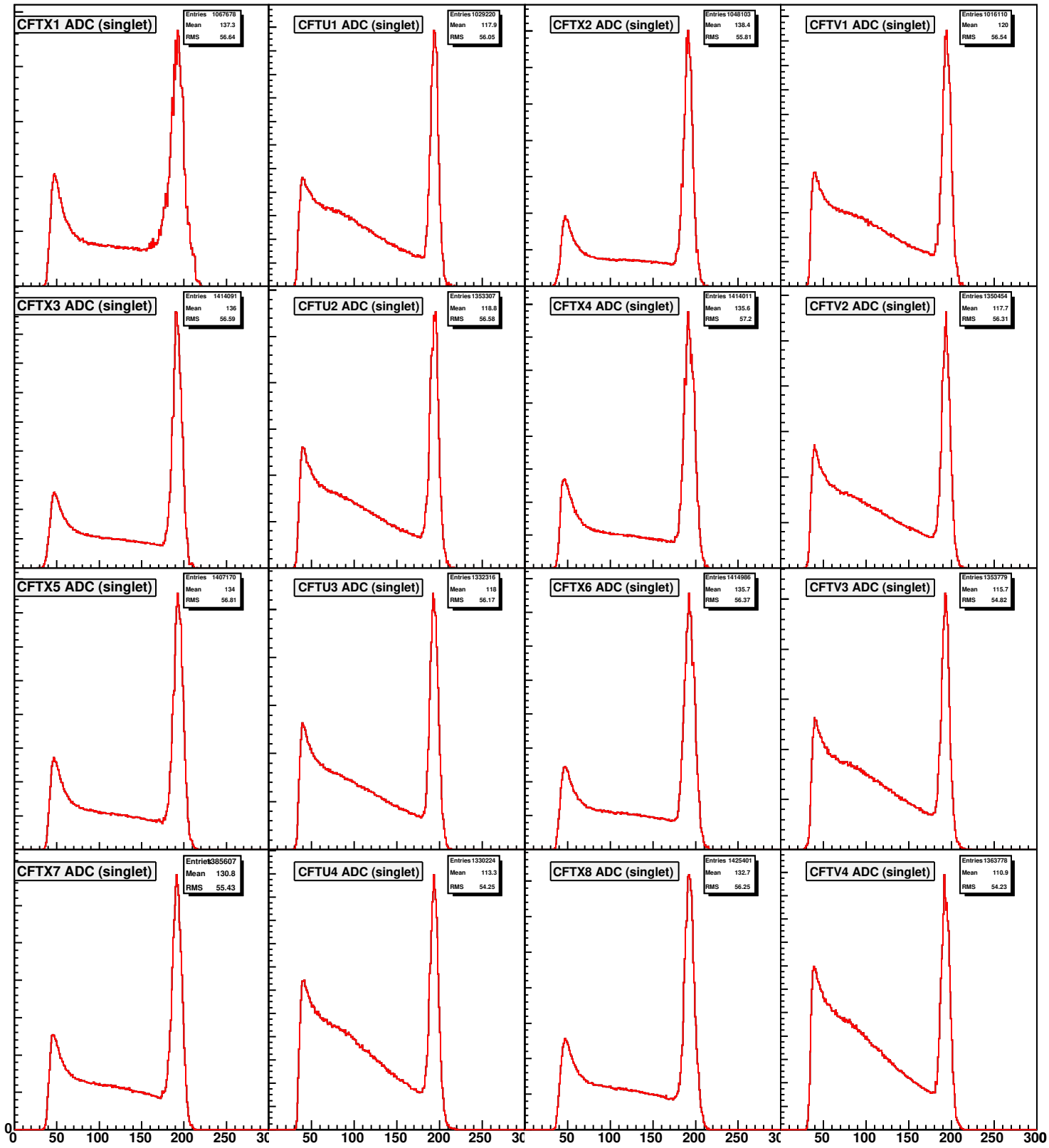
CFT Hit Fiber (All Clusters)



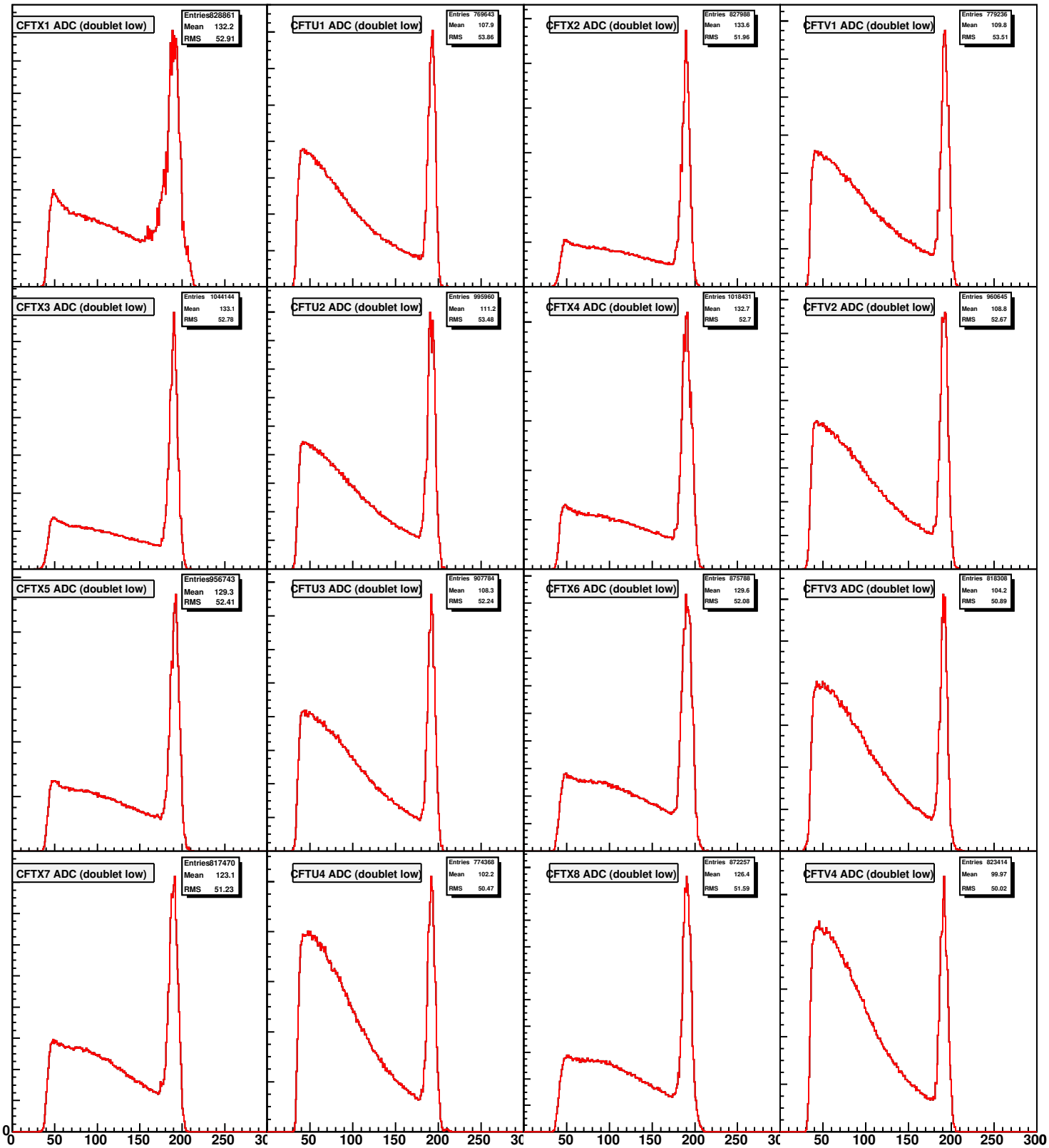
CFT Hit Fiber Discriminator (All Clusters)



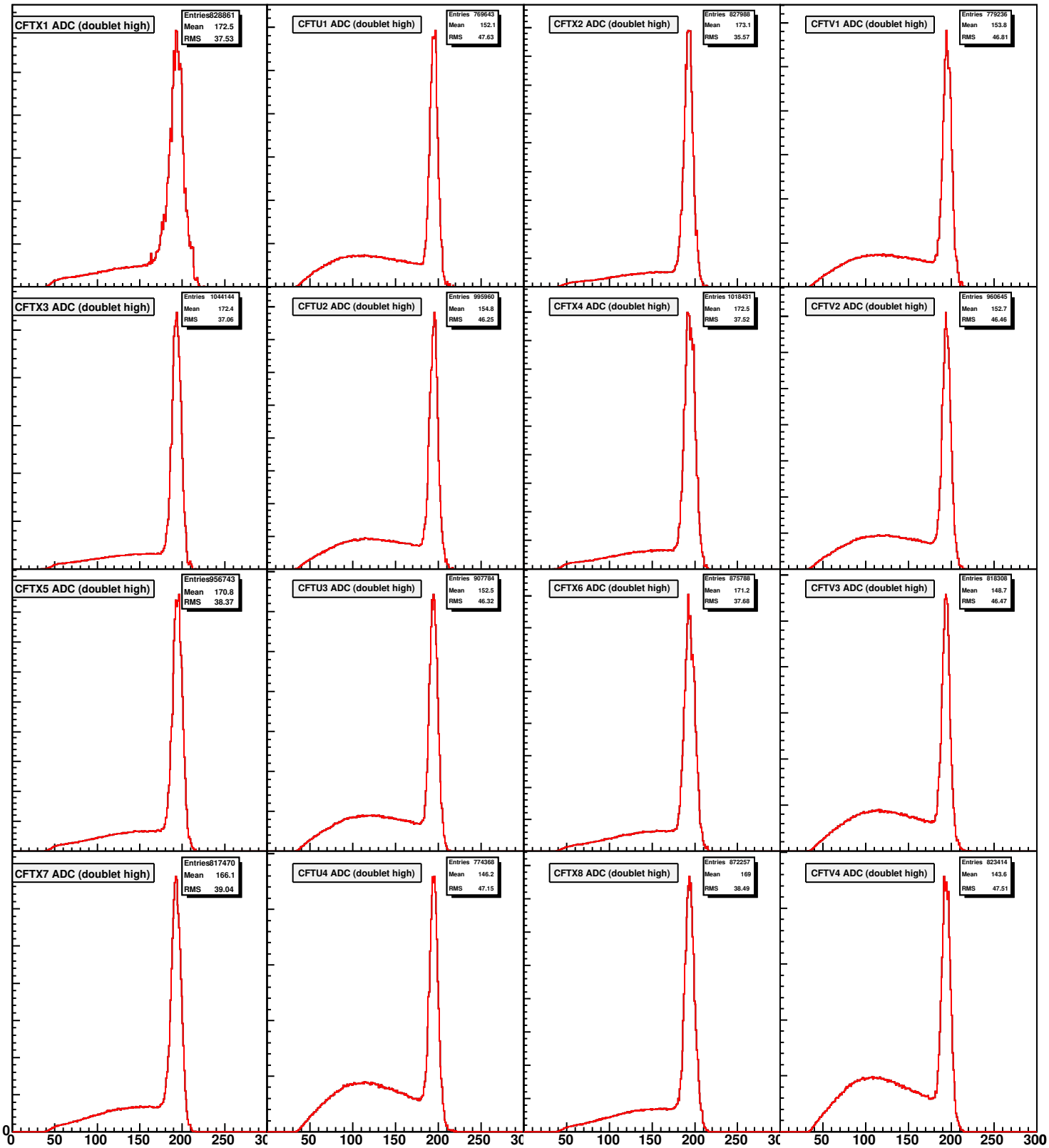
CFT ADC (all) (All Clusters)



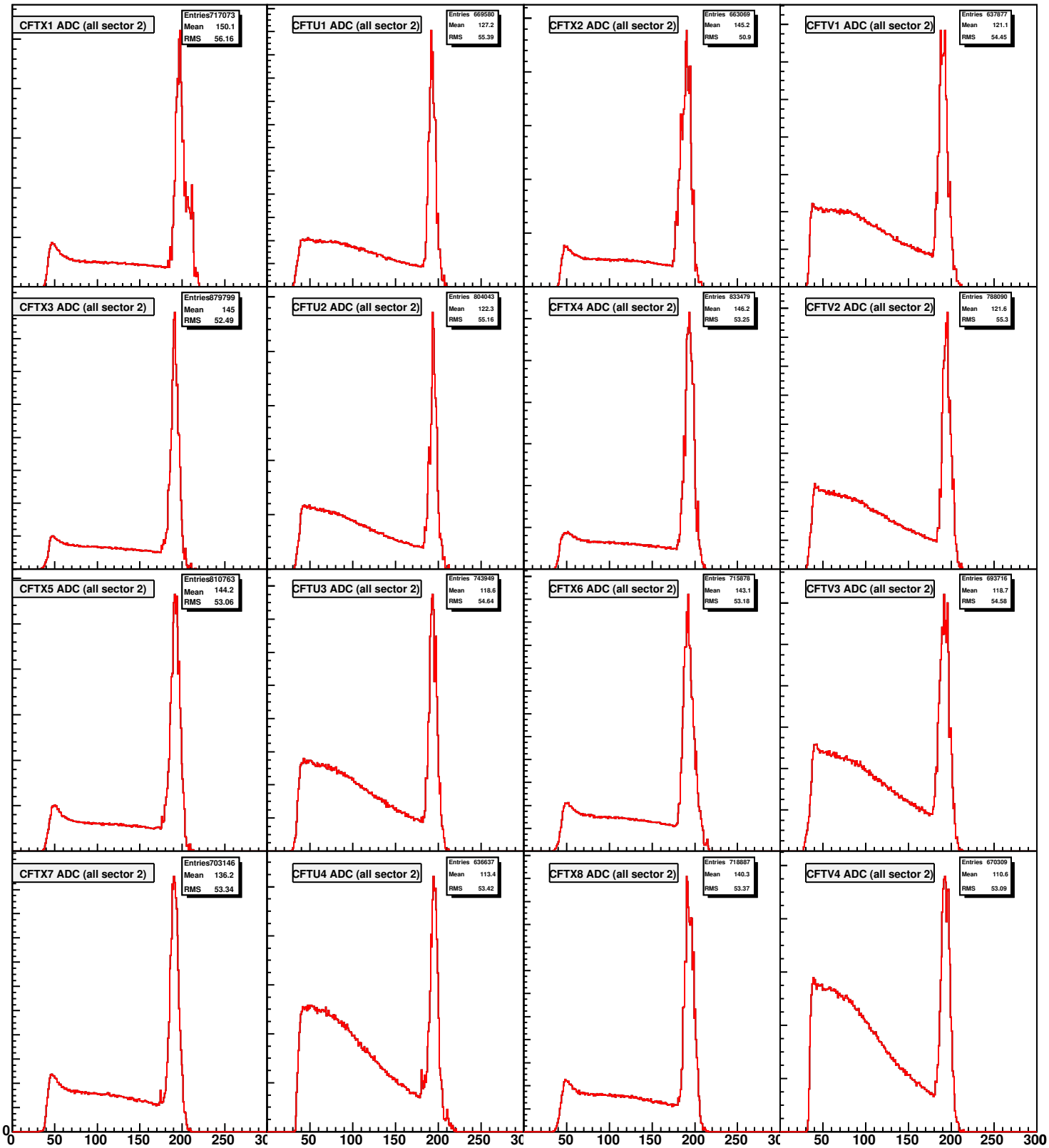
CFT ADC (singlet) (All Clusters)



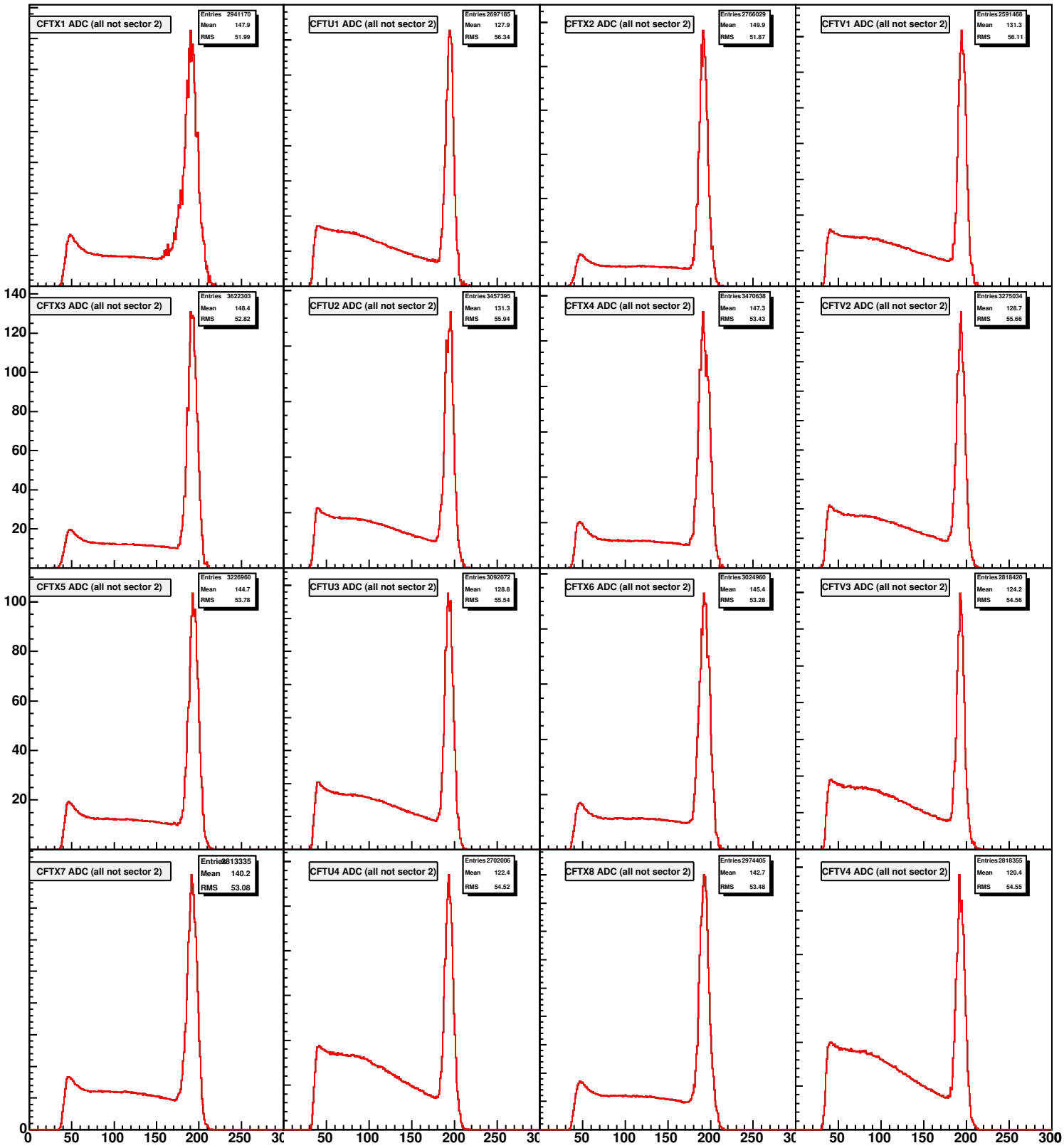
CFT ADC (doublet low) (All Clusters)



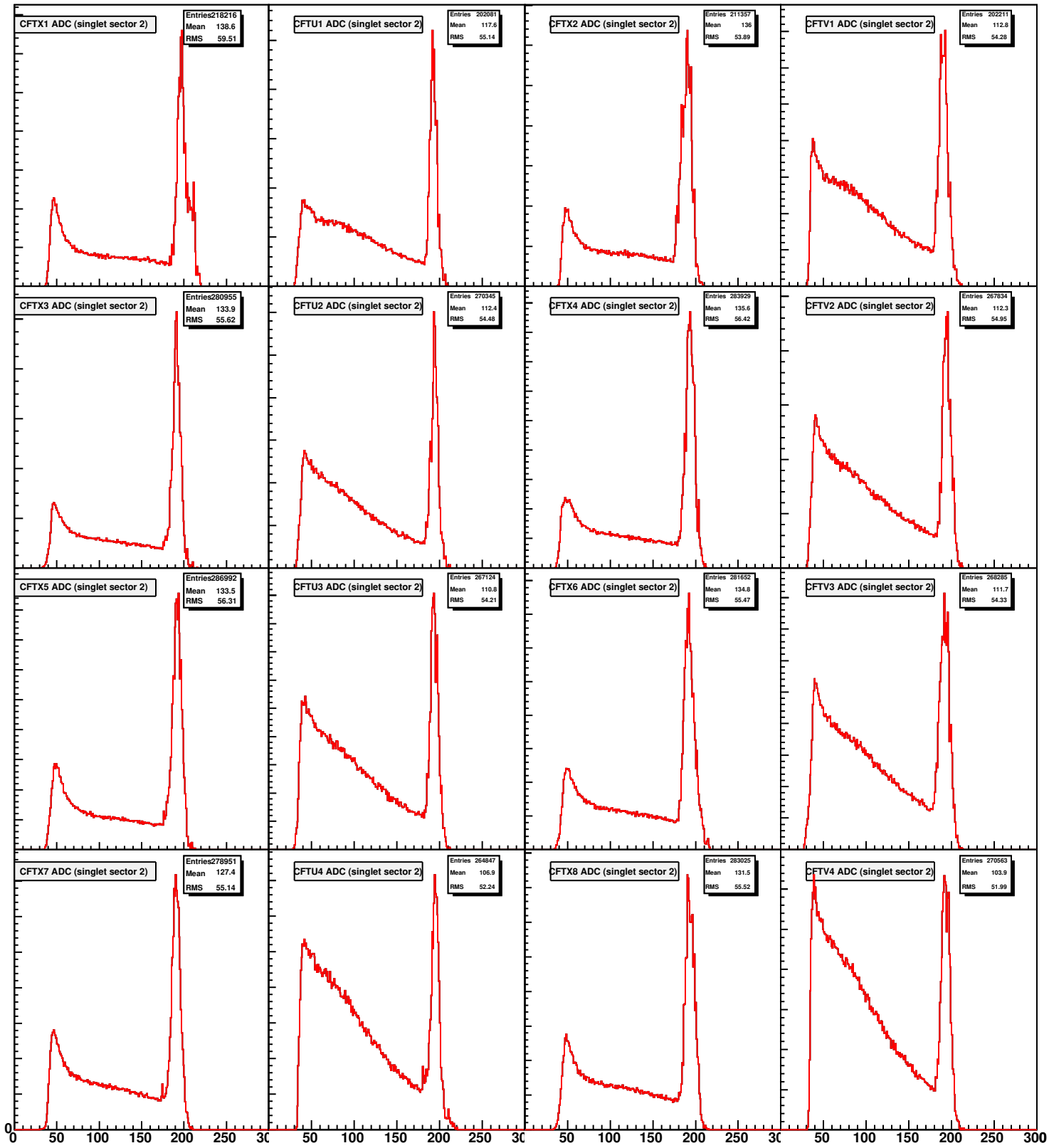
CFT ADC (doublet high) (All Clusters)



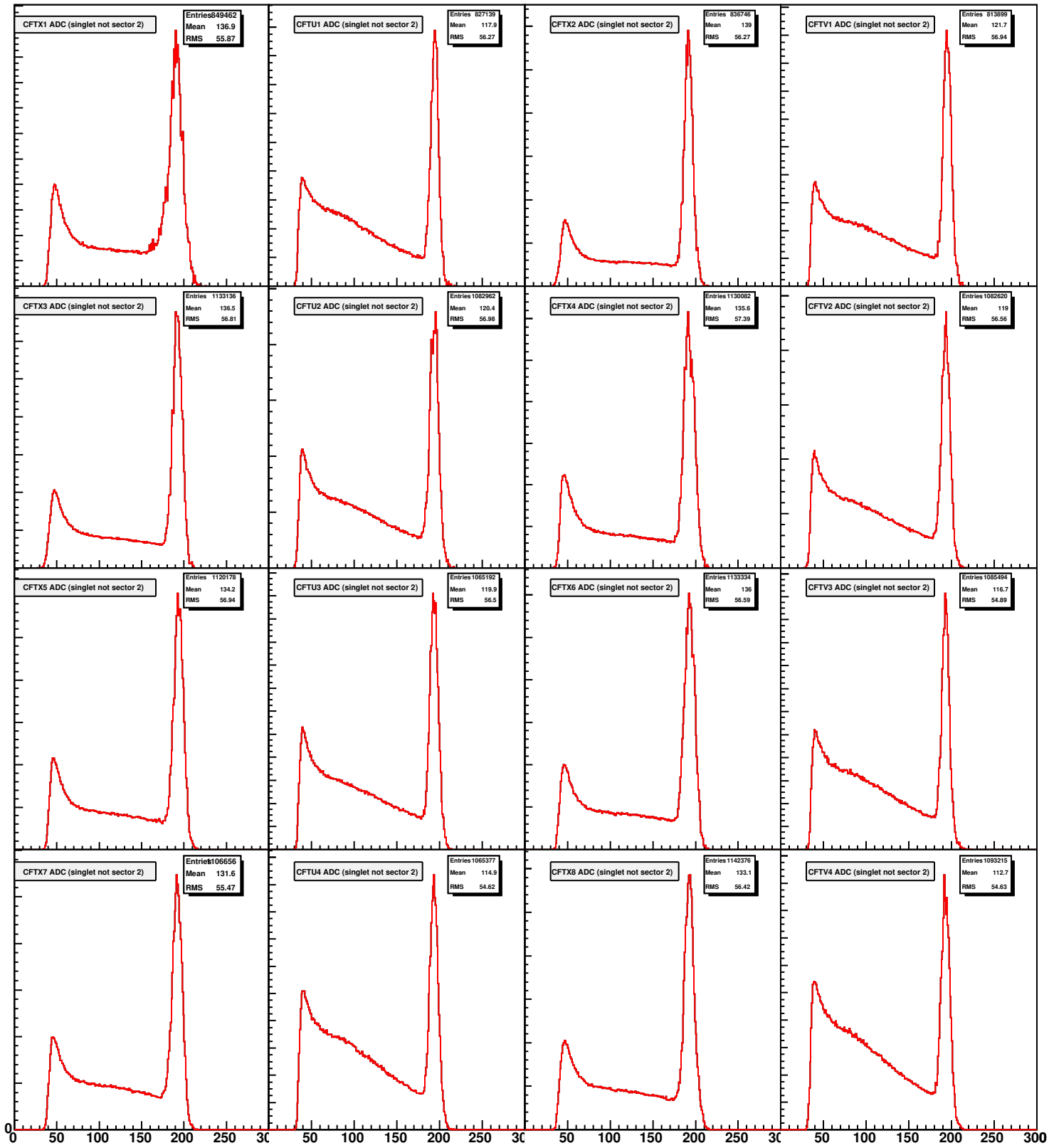
CFT ADC (all sector 2) (All Clusters)



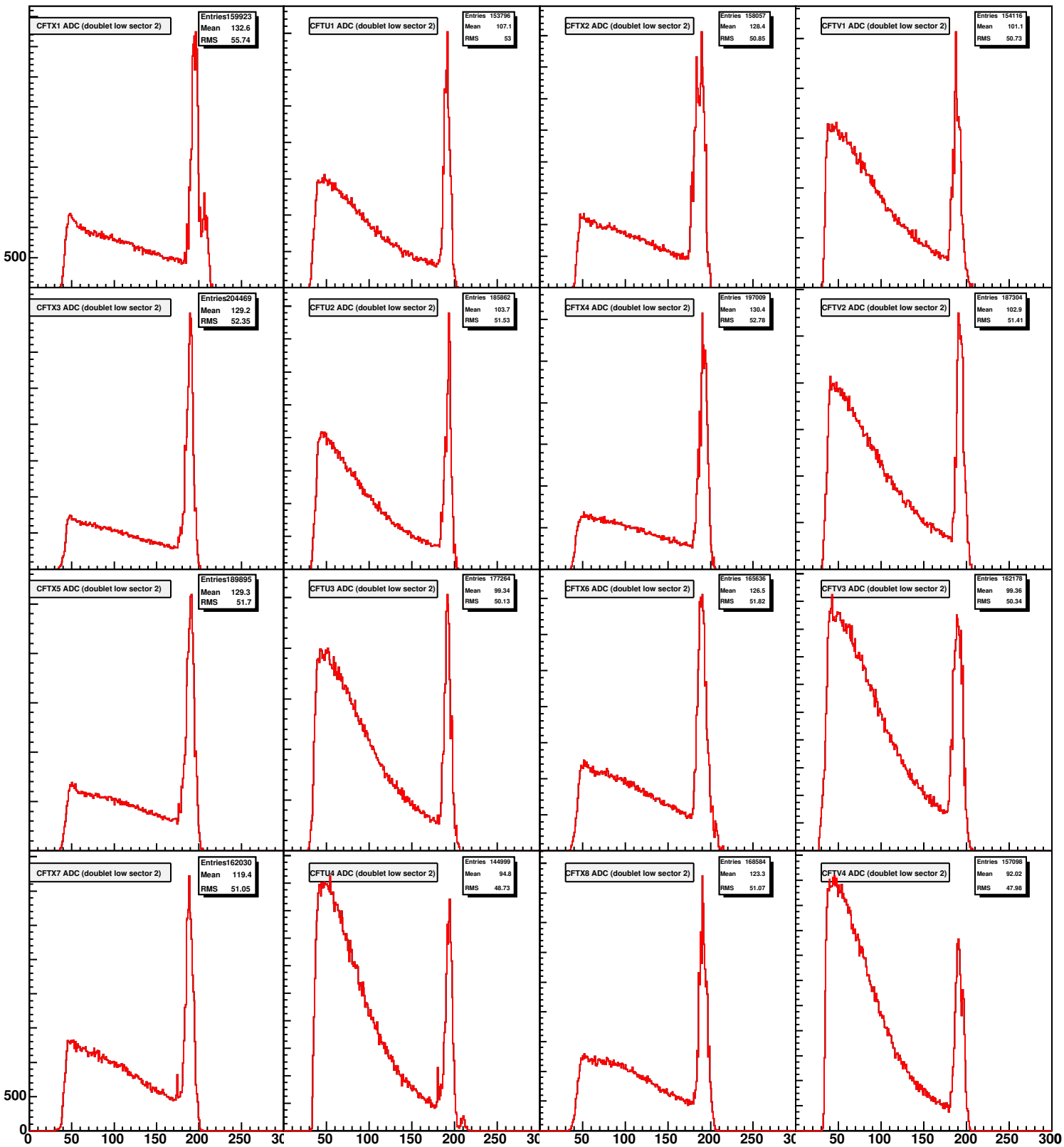
CFT ADC (all not sector 2) (All Clusters)



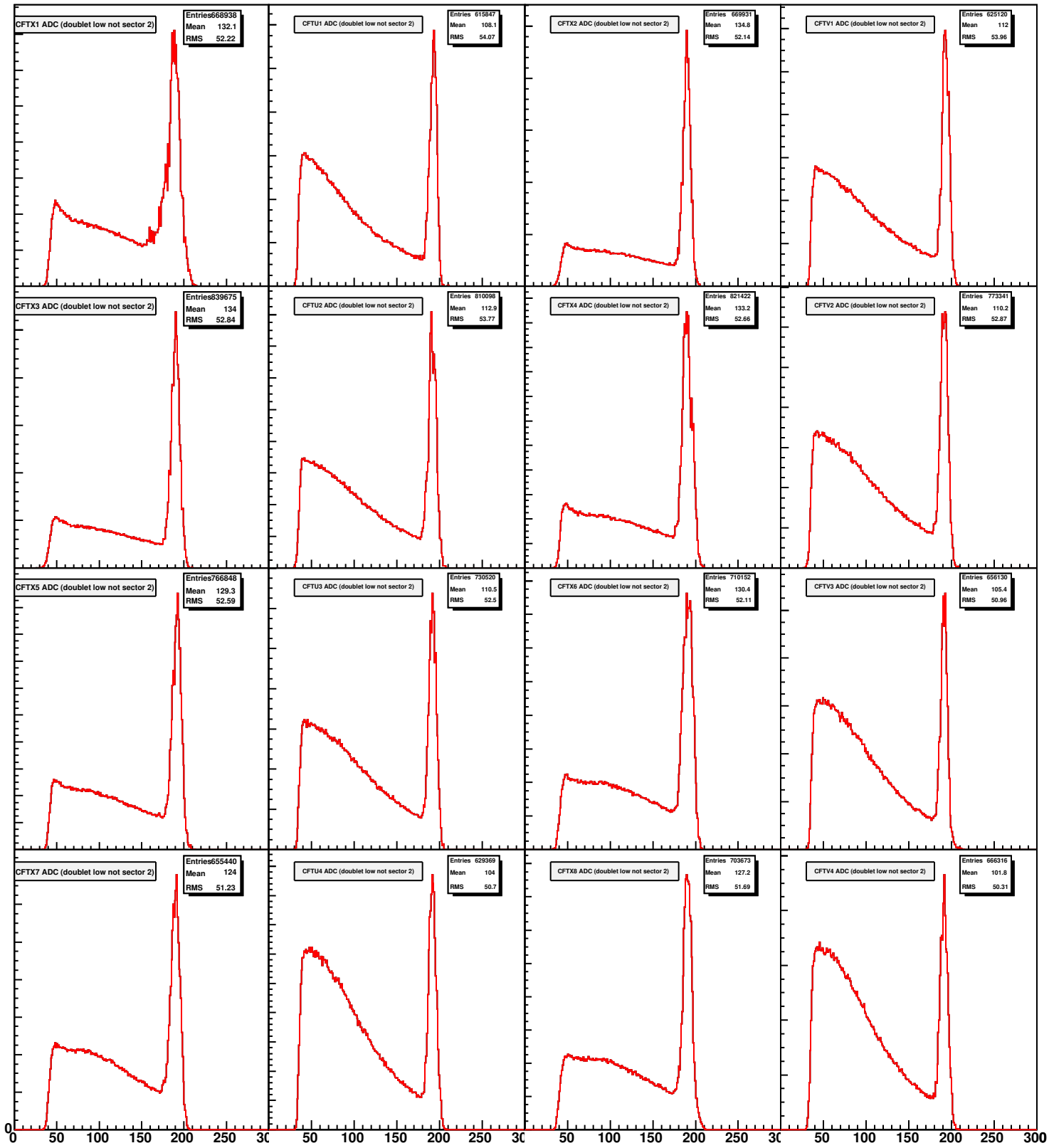
CFT ADC (singlet sector 2) (All Clusters)



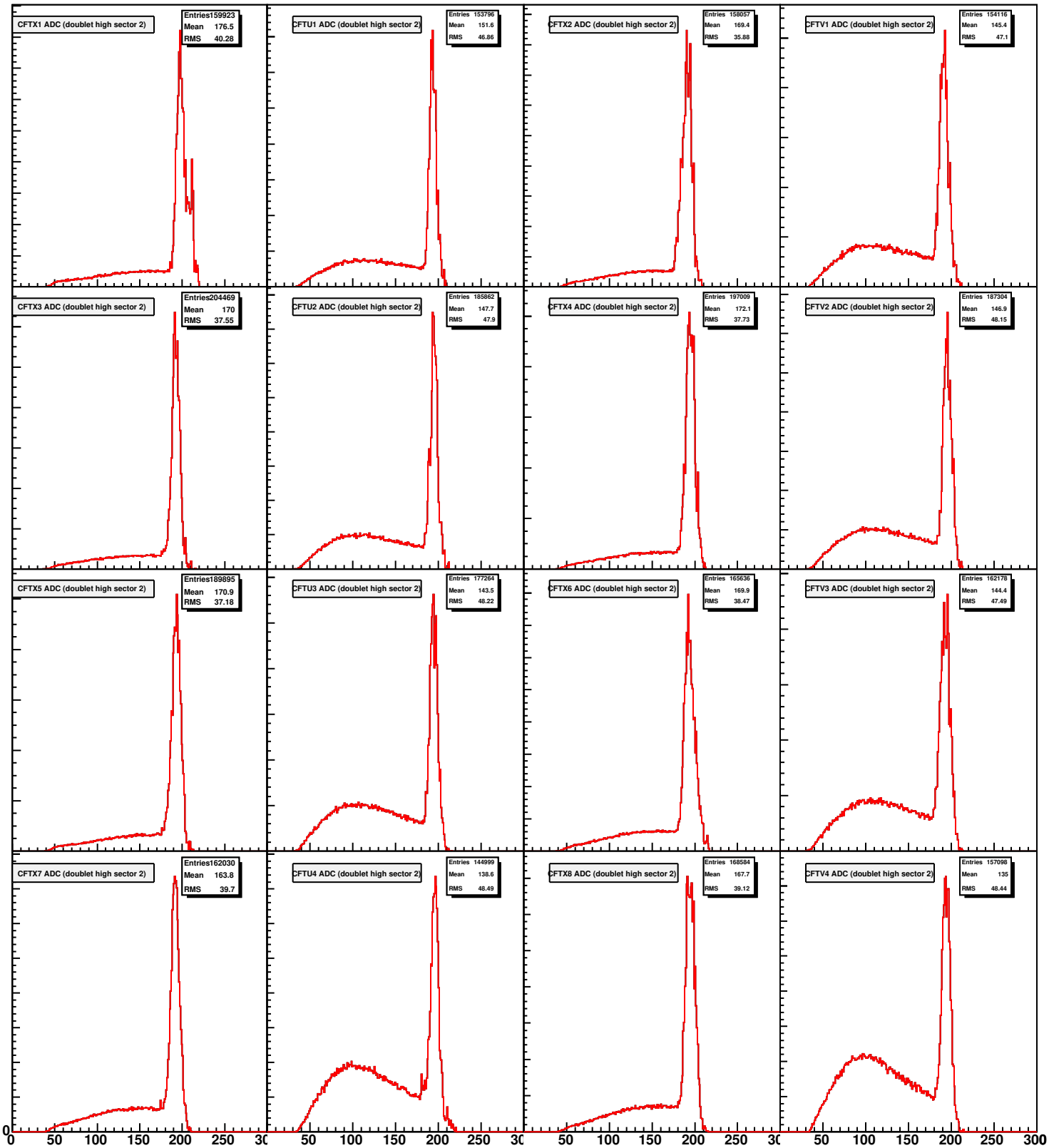
CFT ADC (singlet not sector 2) (All Clusters)



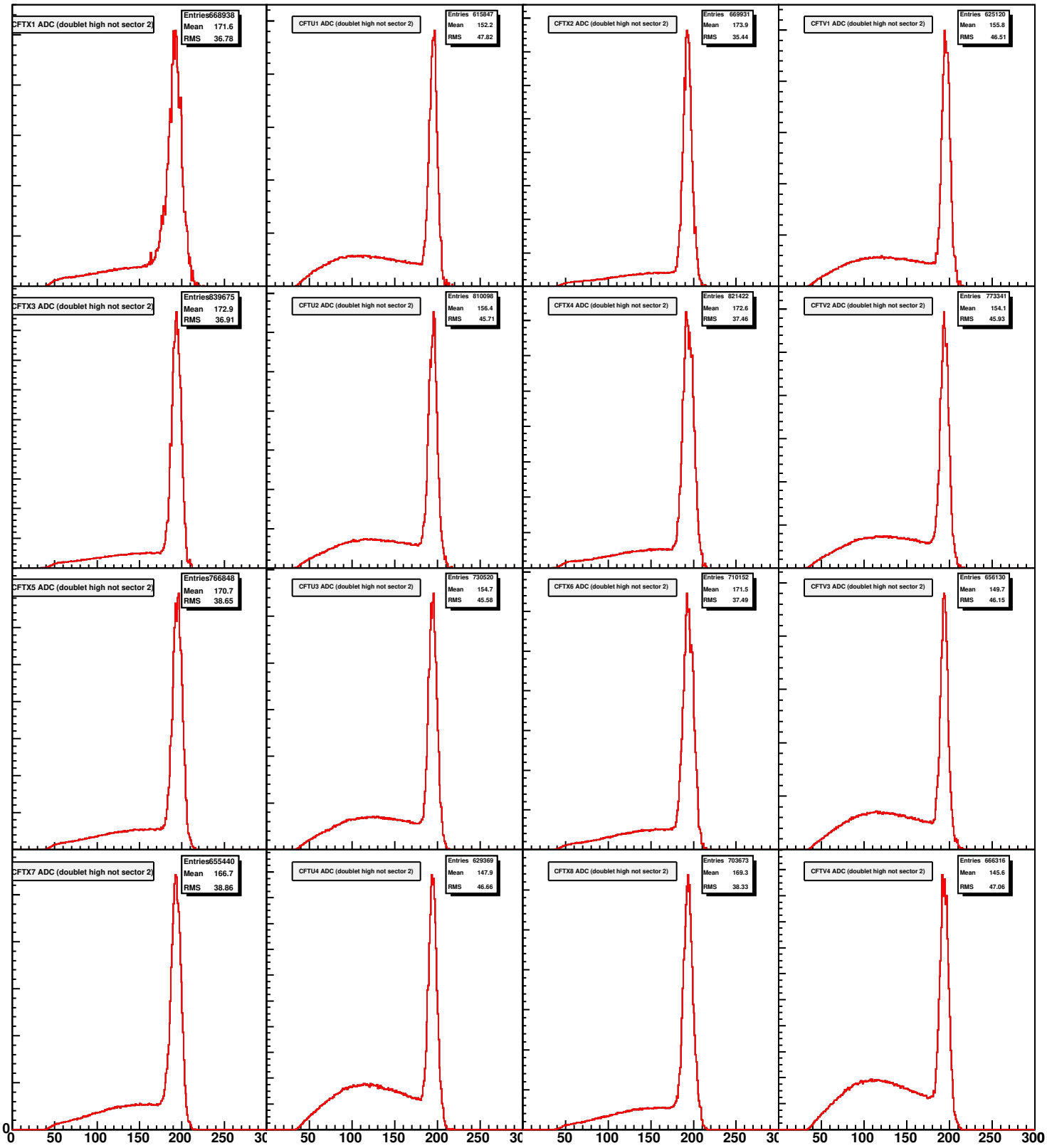
CFT ADC (doublet low sector 2) (All Clusters)



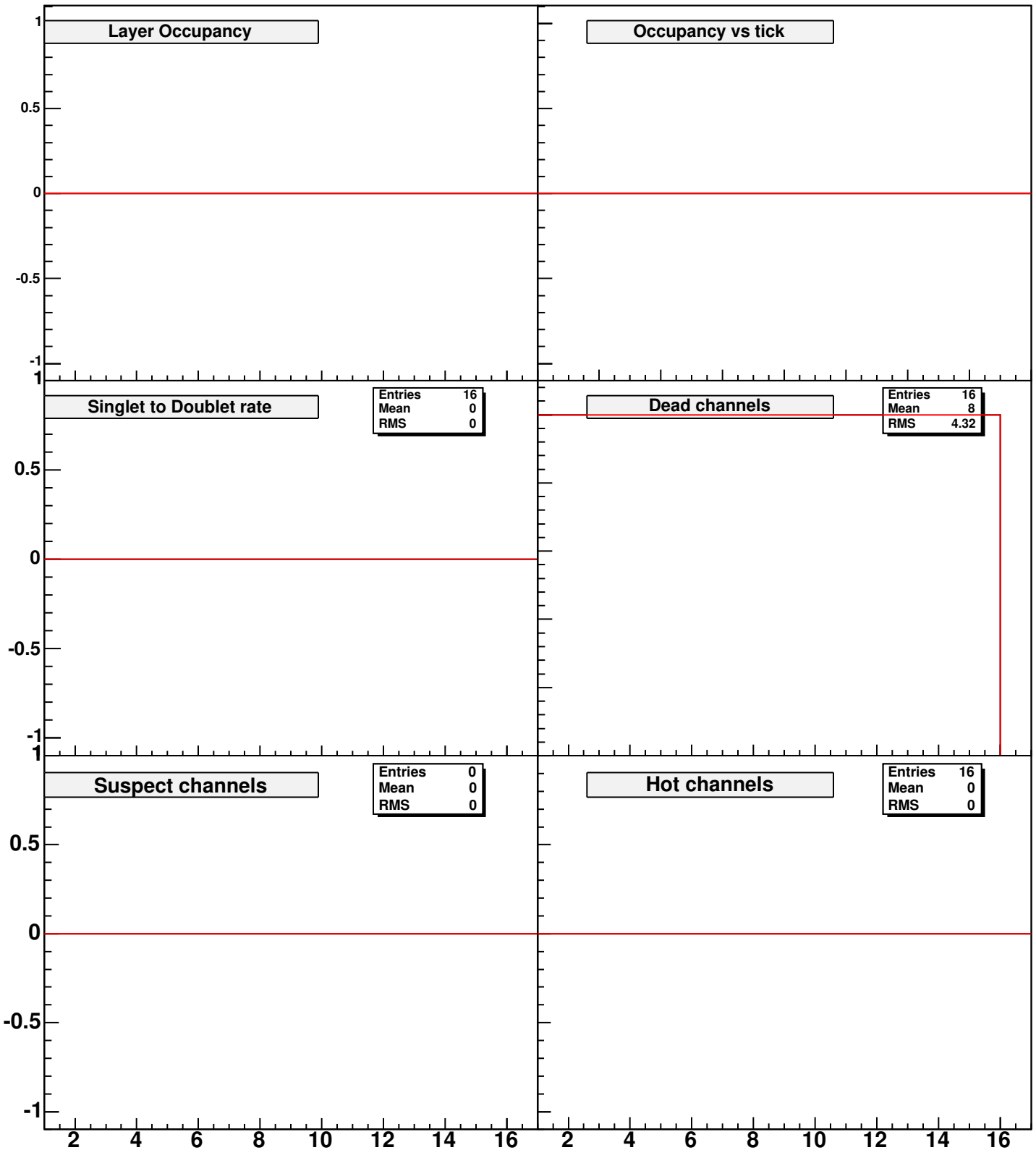
CFT ADC (doublet low not sector 2) (All Clusters)



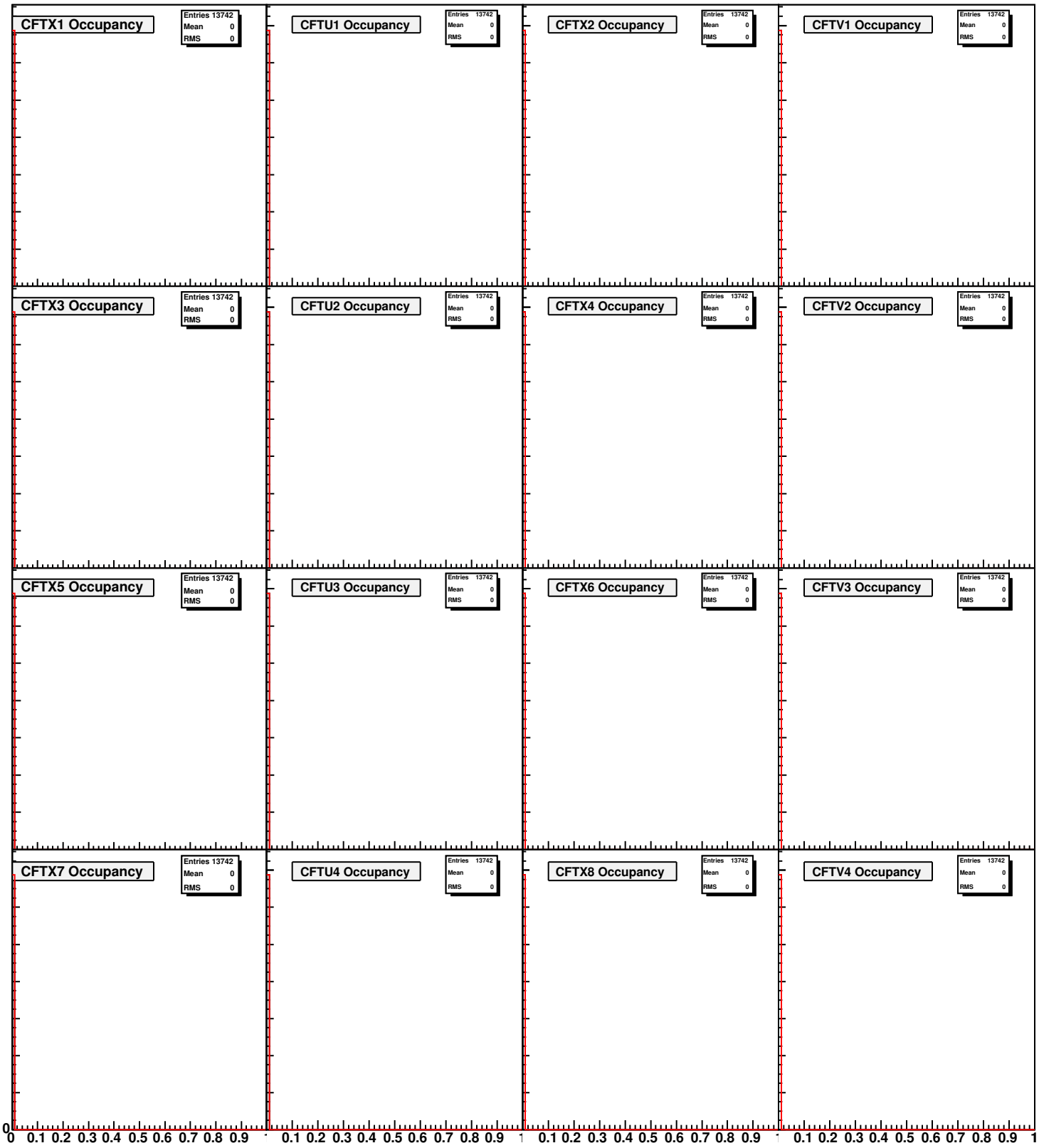
CFT ADC (doublet high sector 2) (All Clusters)



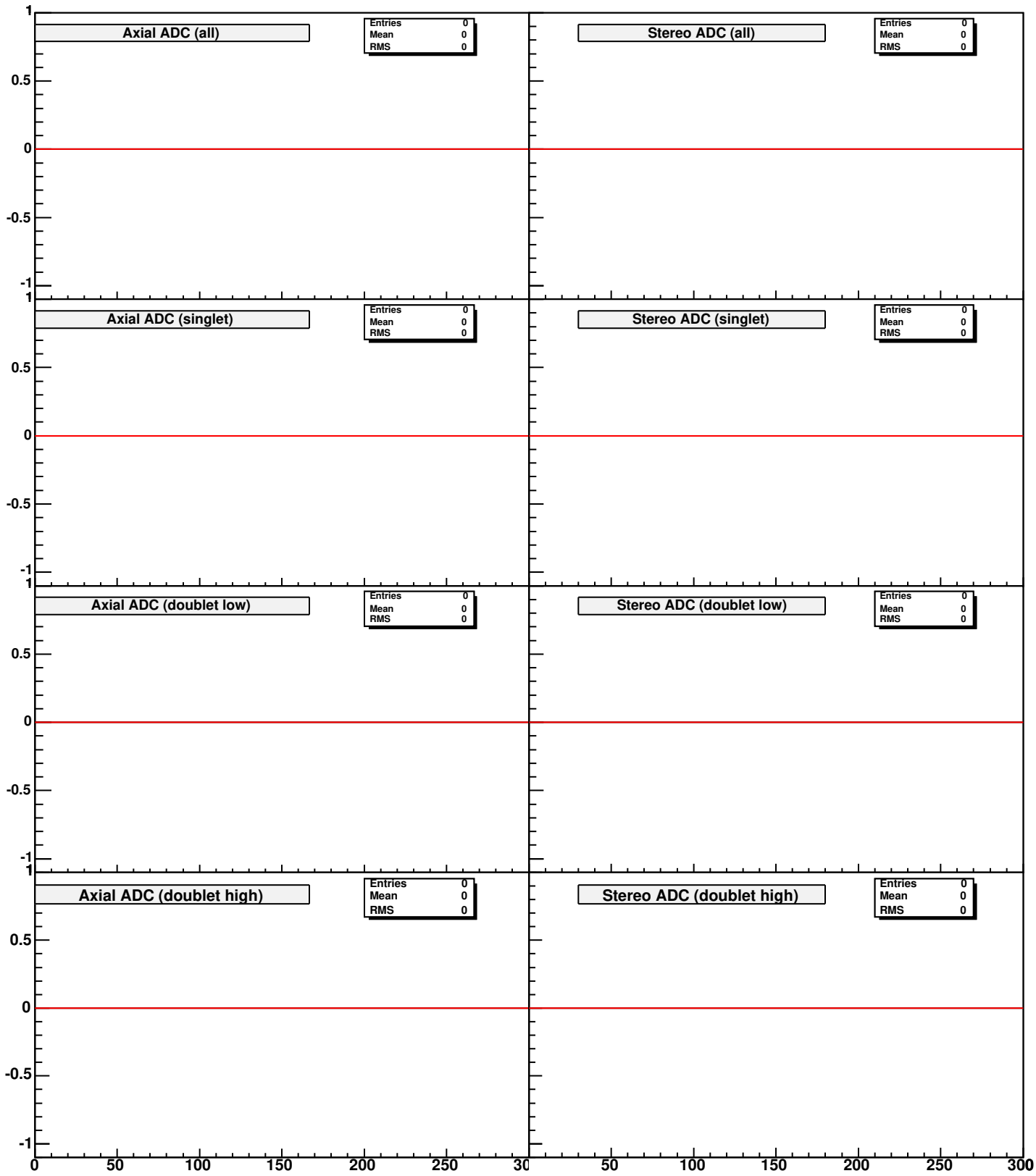
CFT ADC (doublet high not sector 2) (All Clusters)



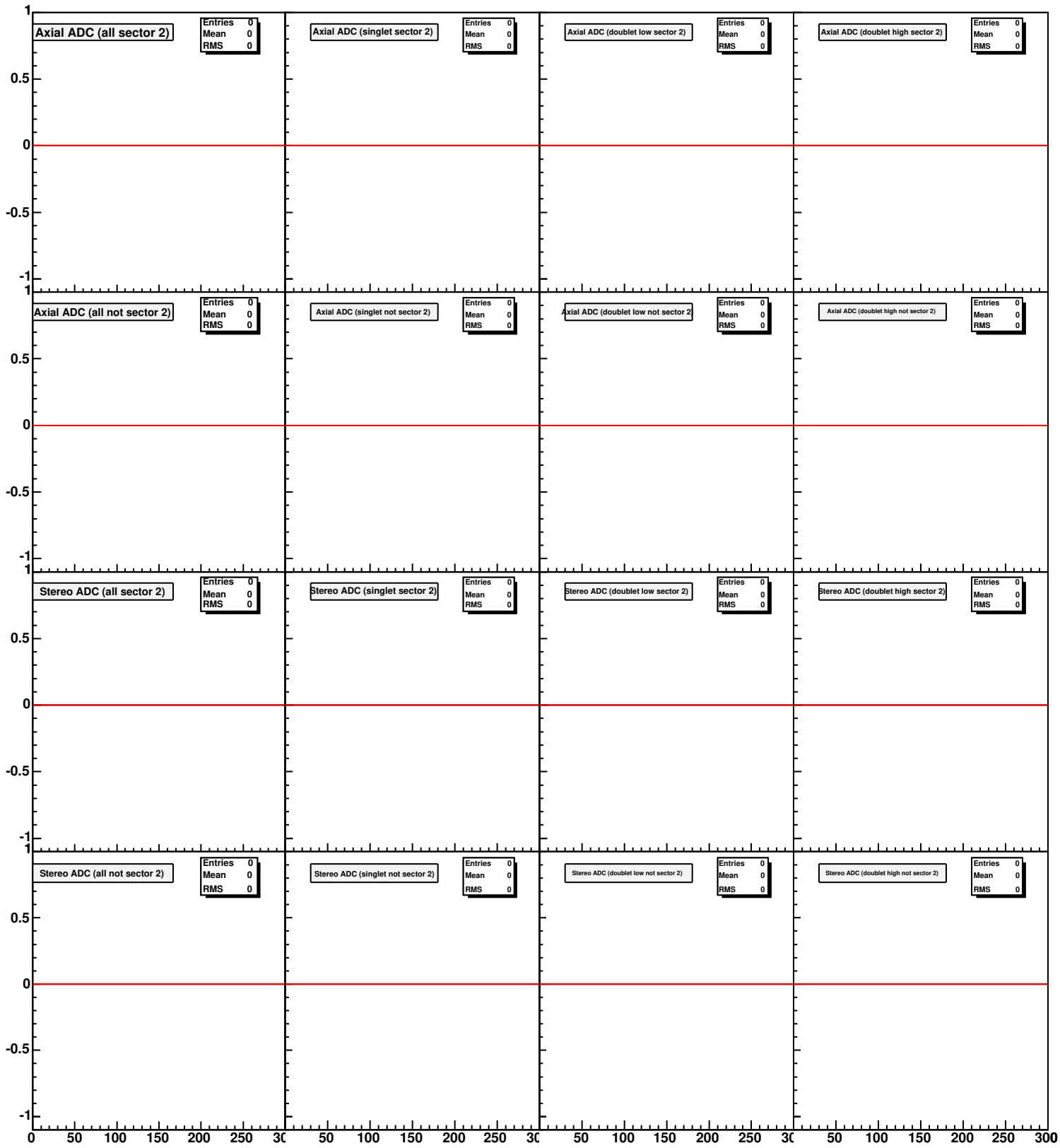
CFT Summary (Clusters on tracks)



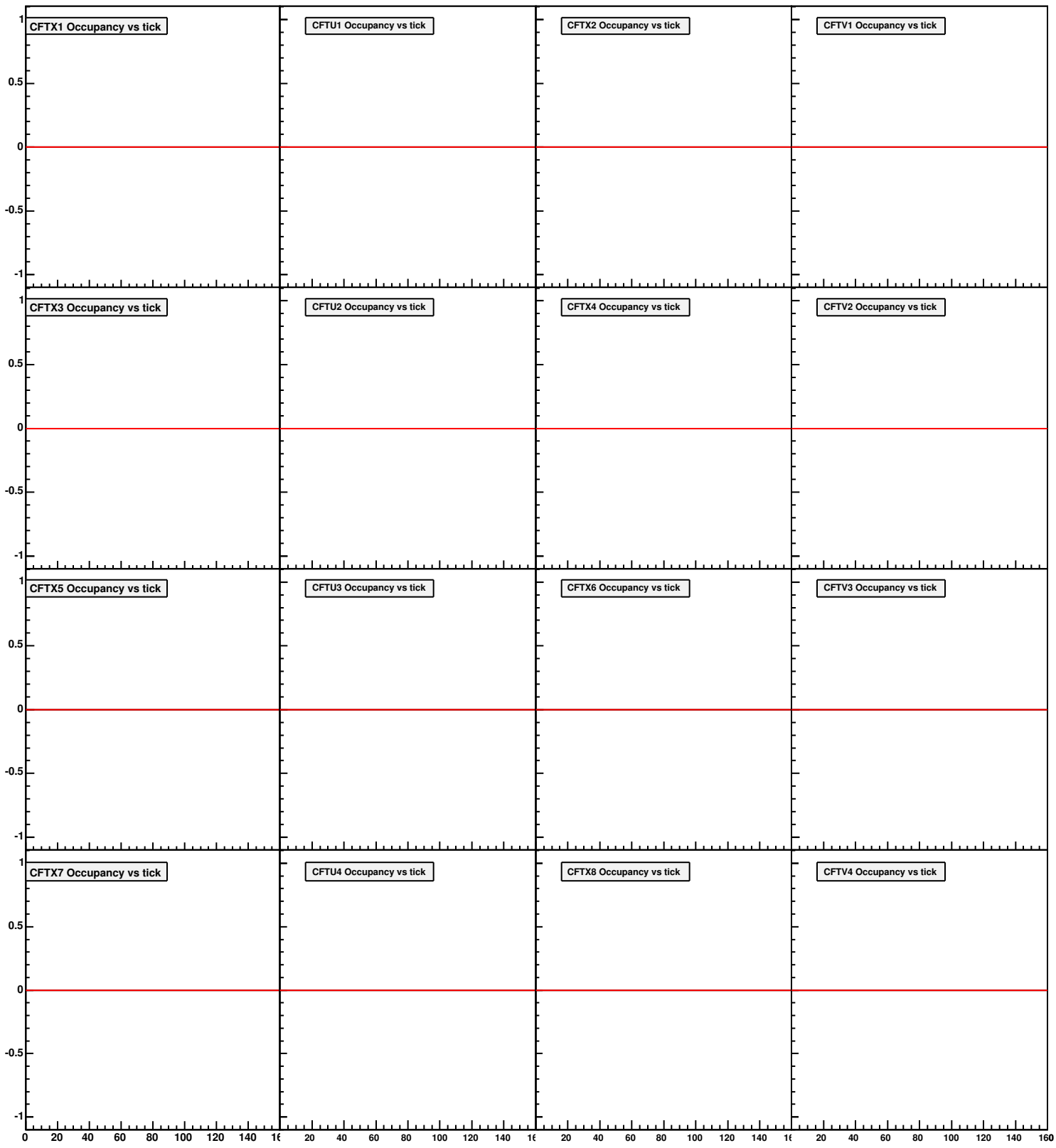
CFT Occupancy (Clusters on tracks)



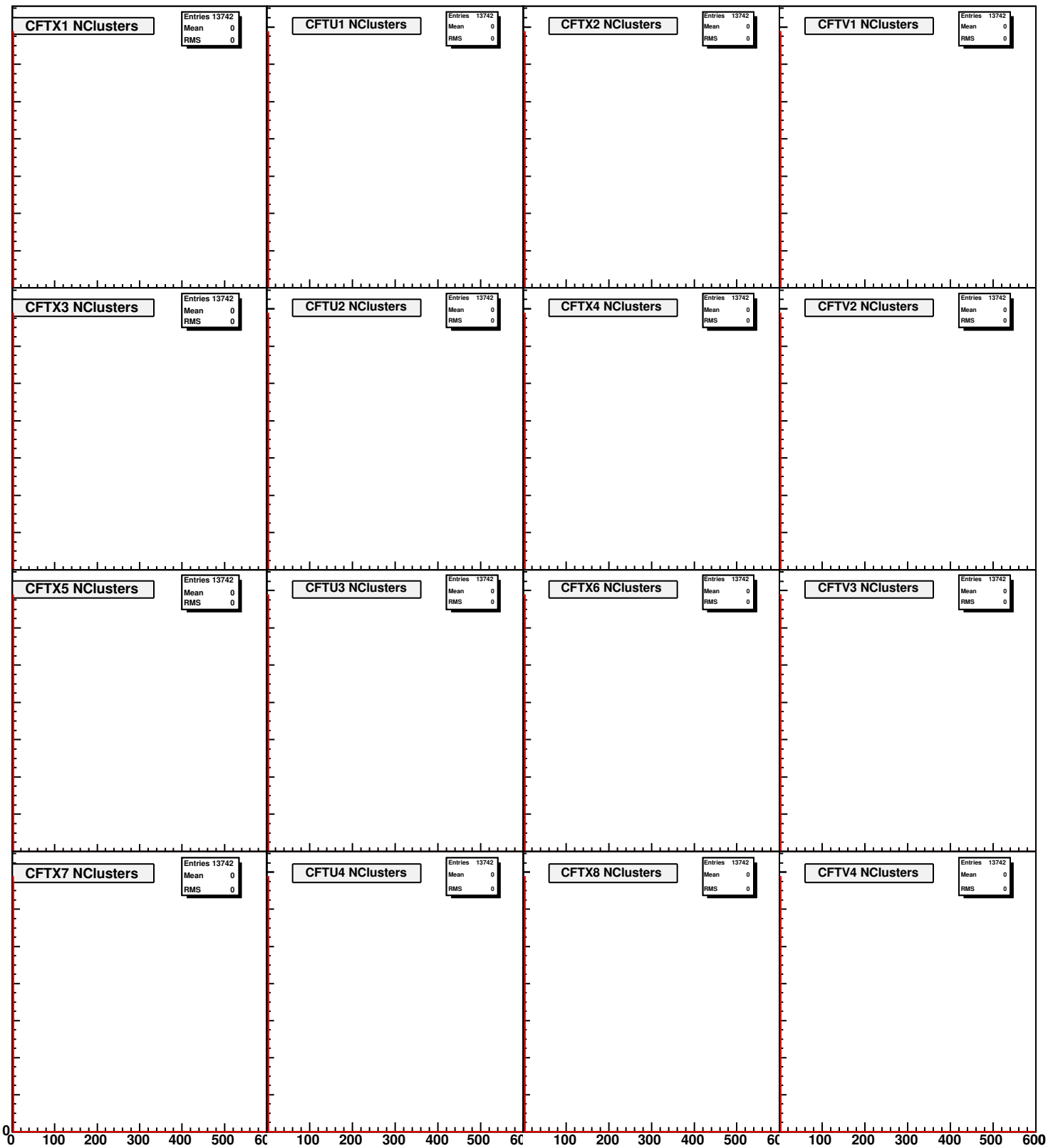
CFT ADC Summary (Clusters on tracks)



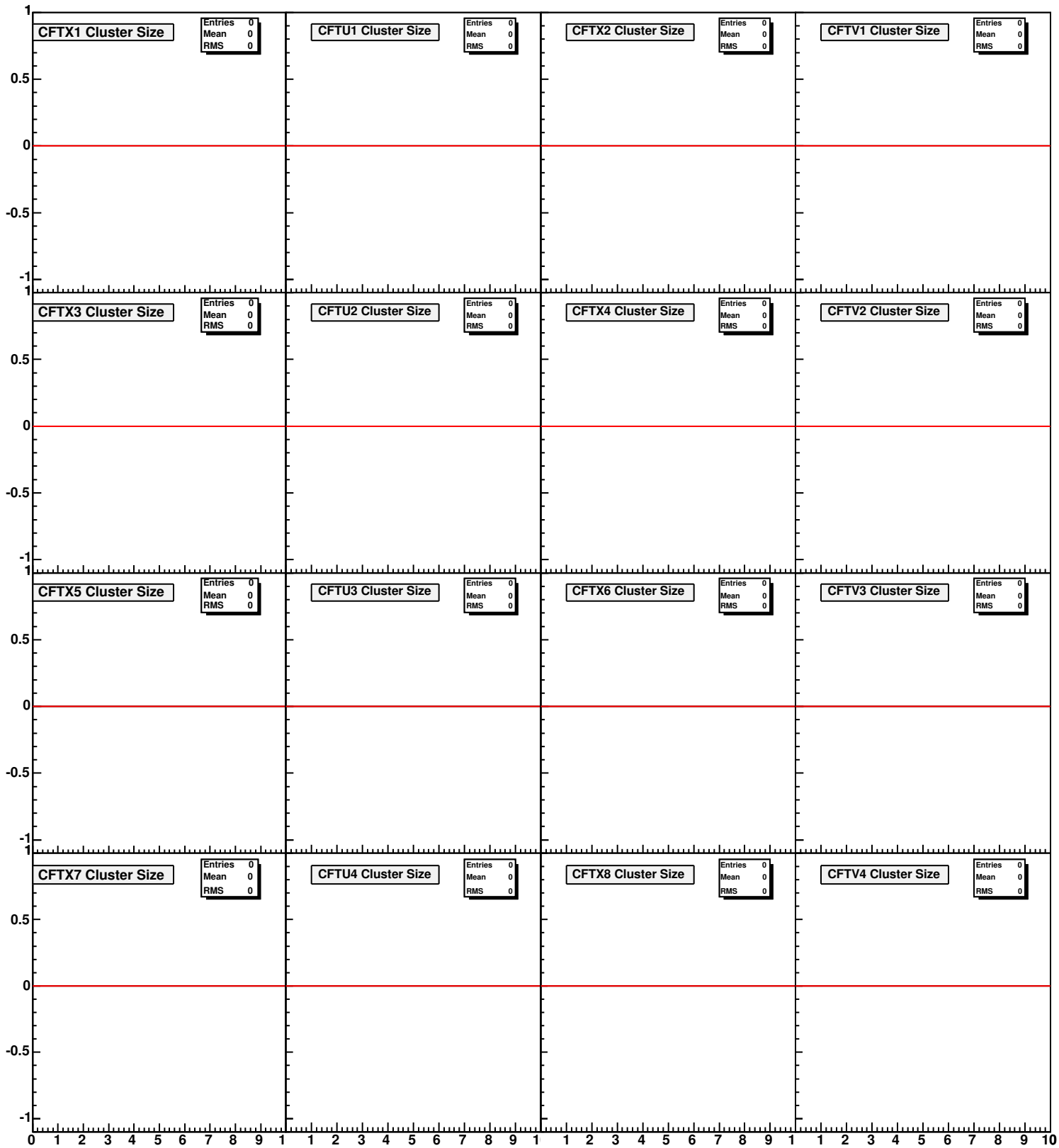
CFT ADC Summary By Sector (Clusters on tracks)



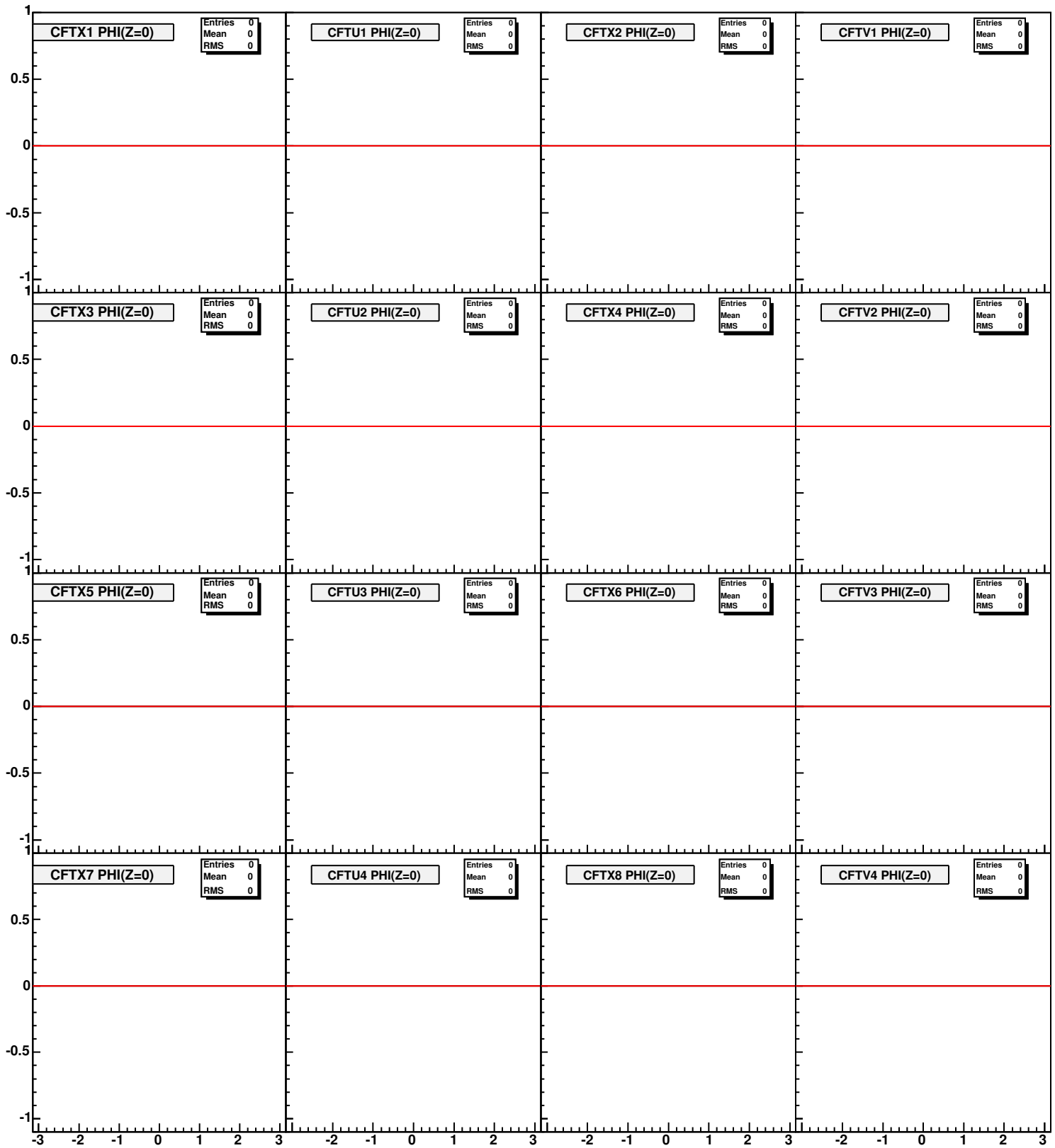
CFT Occupancy vs Tick (Clusters on tracks)



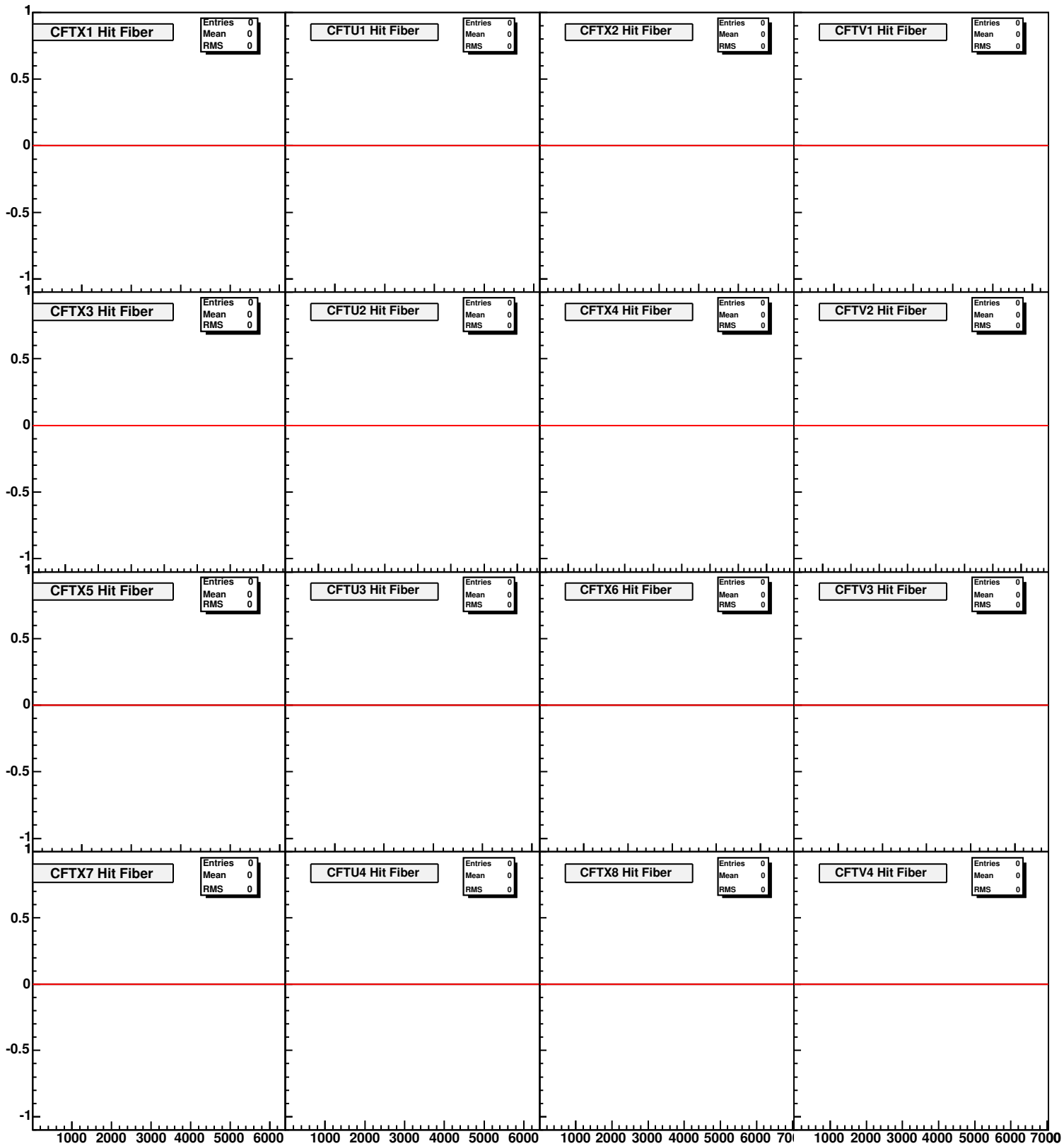
CFT NClusters (Clusters on tracks)



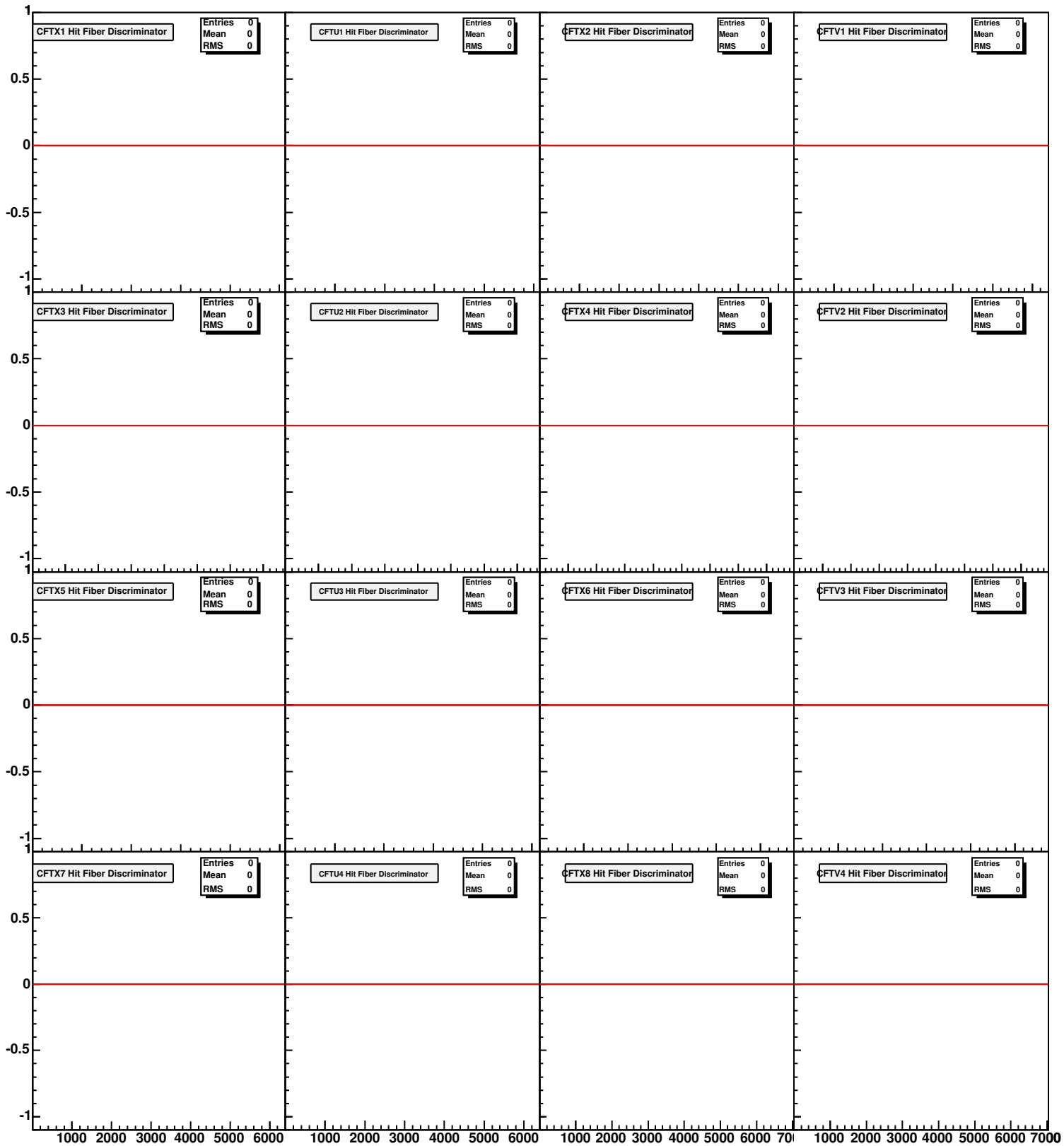
CFT Cluster Size (Clusters on tracks)



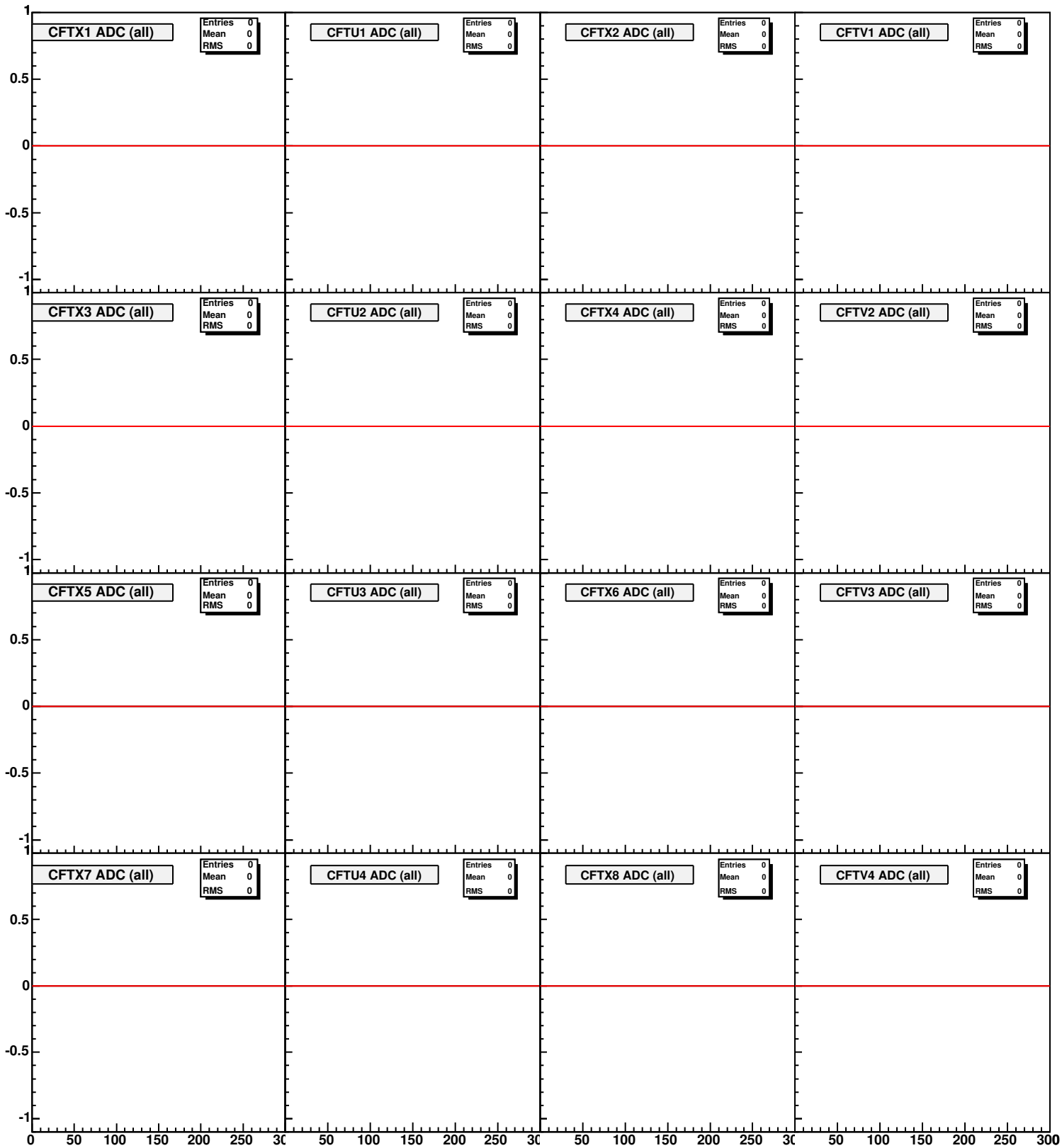
CFT PHI(Z=0) (Clusters on tracks)



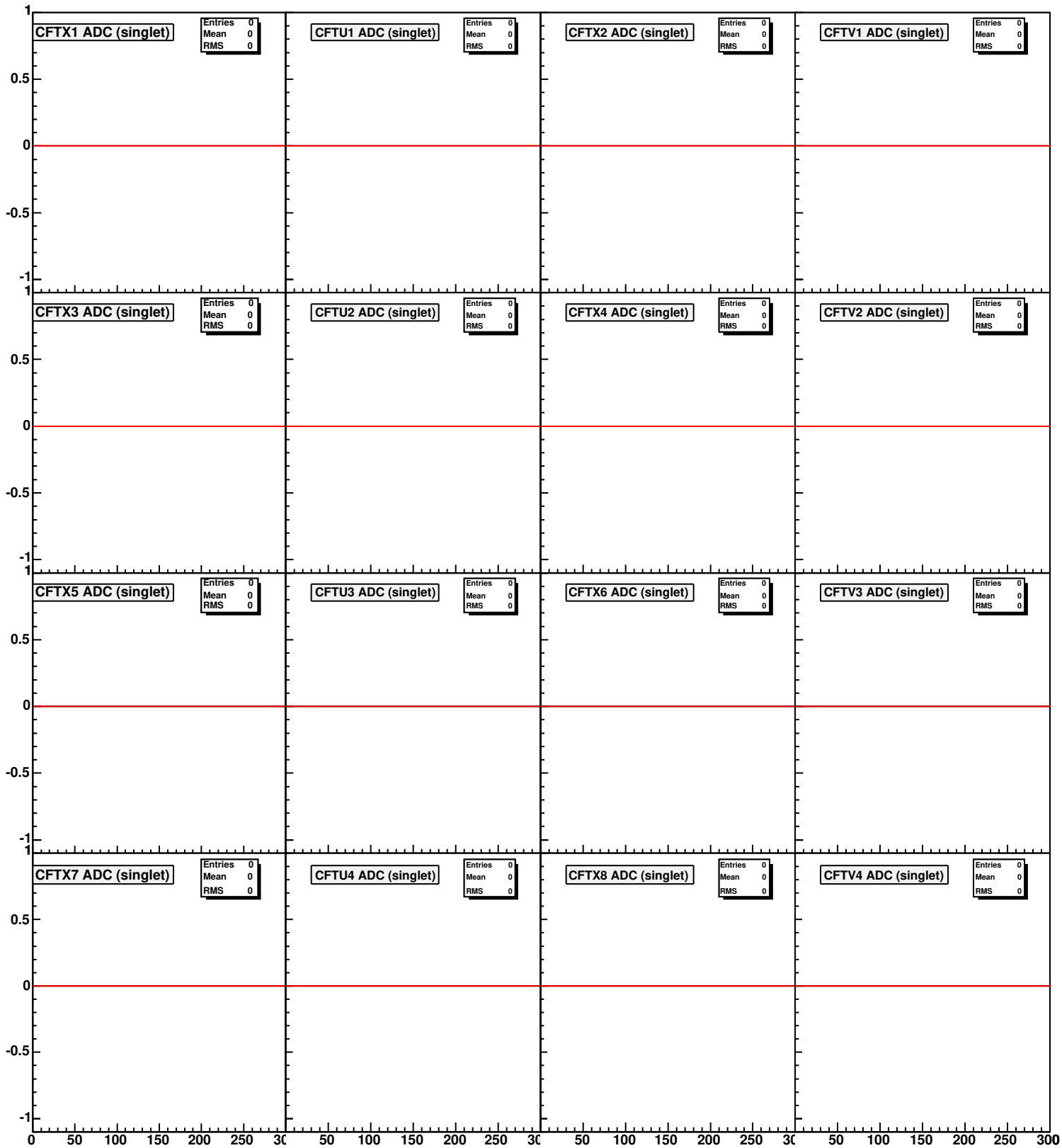
CFT Hit Fiber (Clusters on tracks)



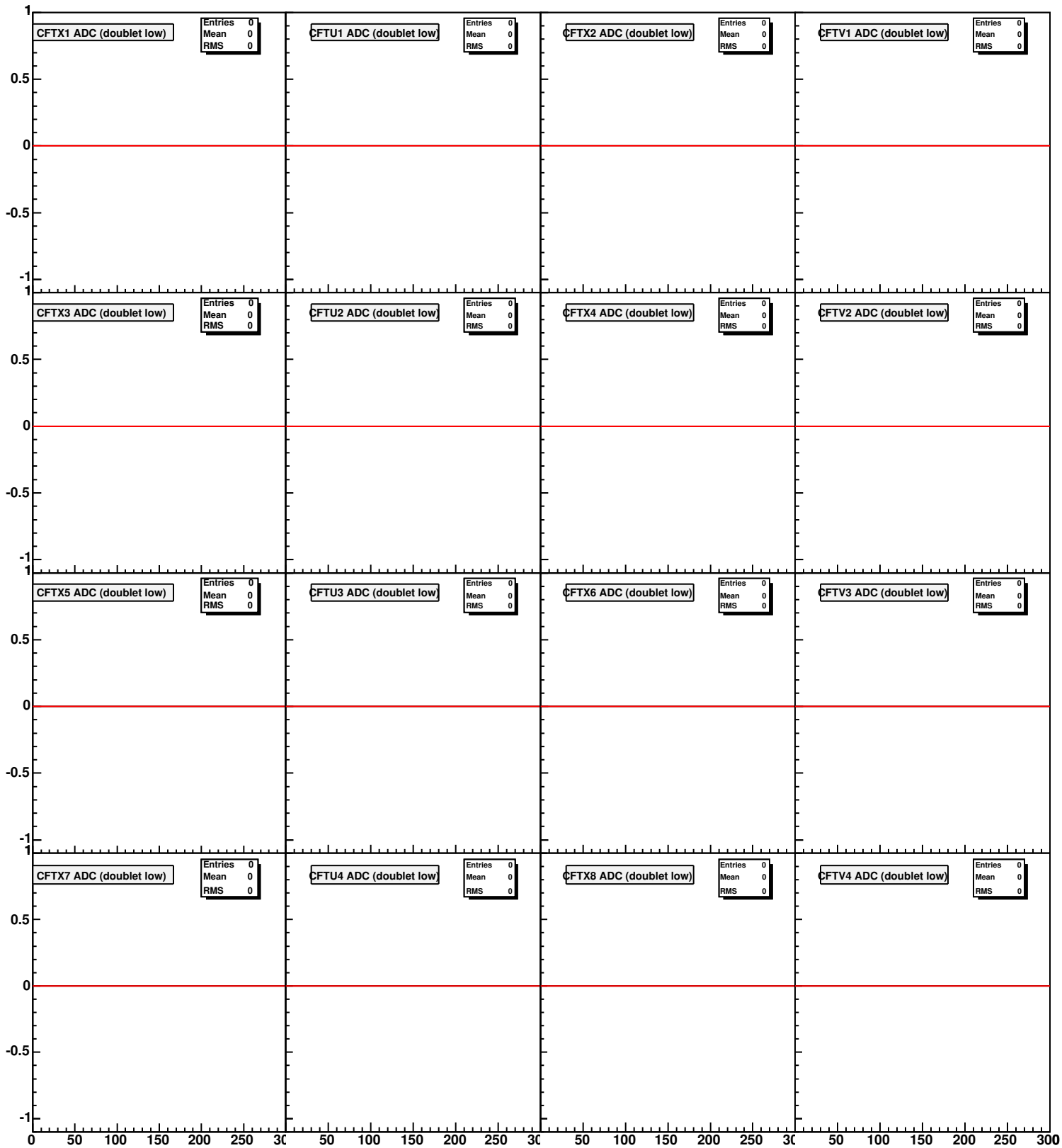
CFT Hit Fiber Discriminator (Clusters on tracks)



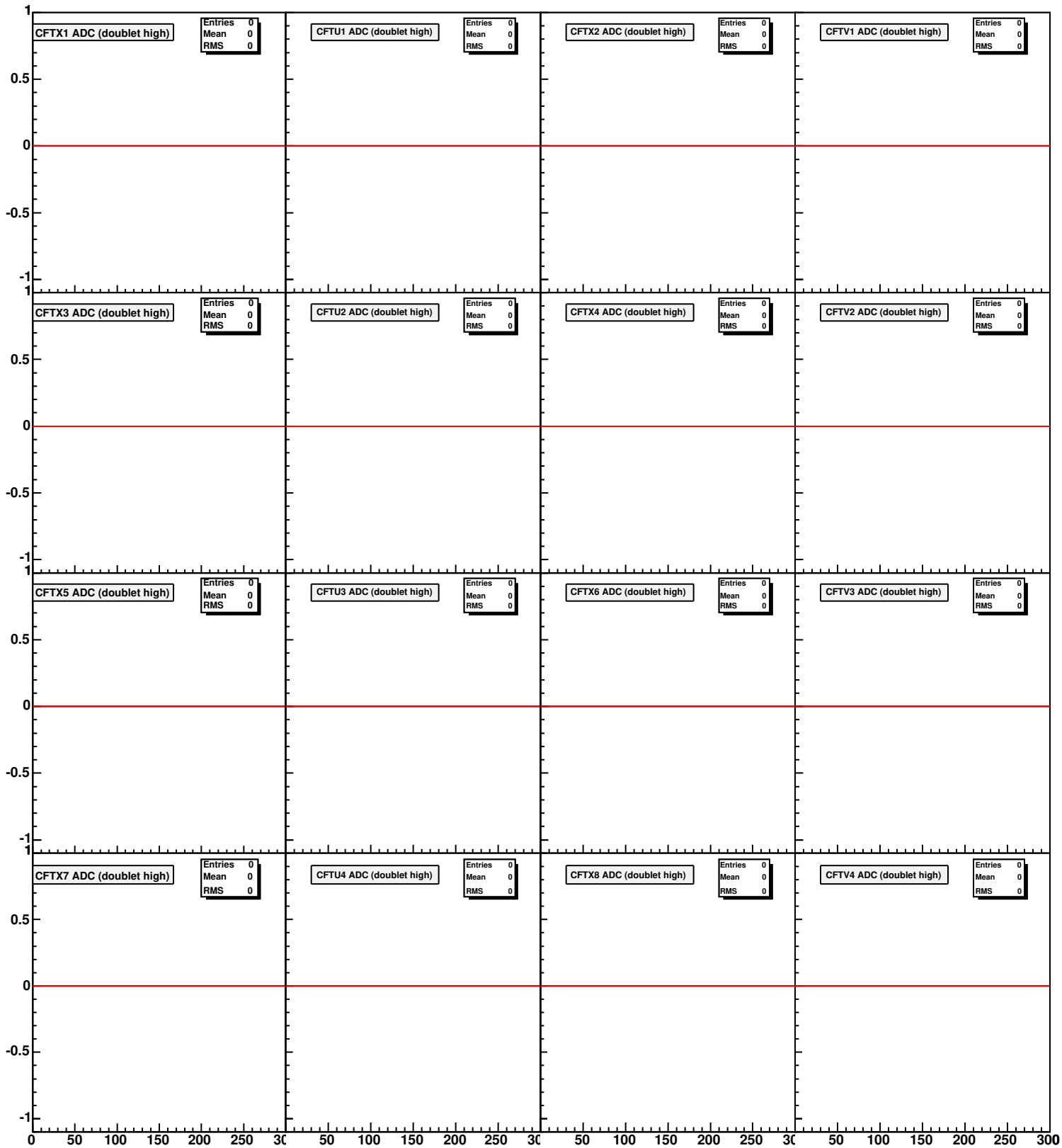
CFT ADC (all) (Clusters on tracks)



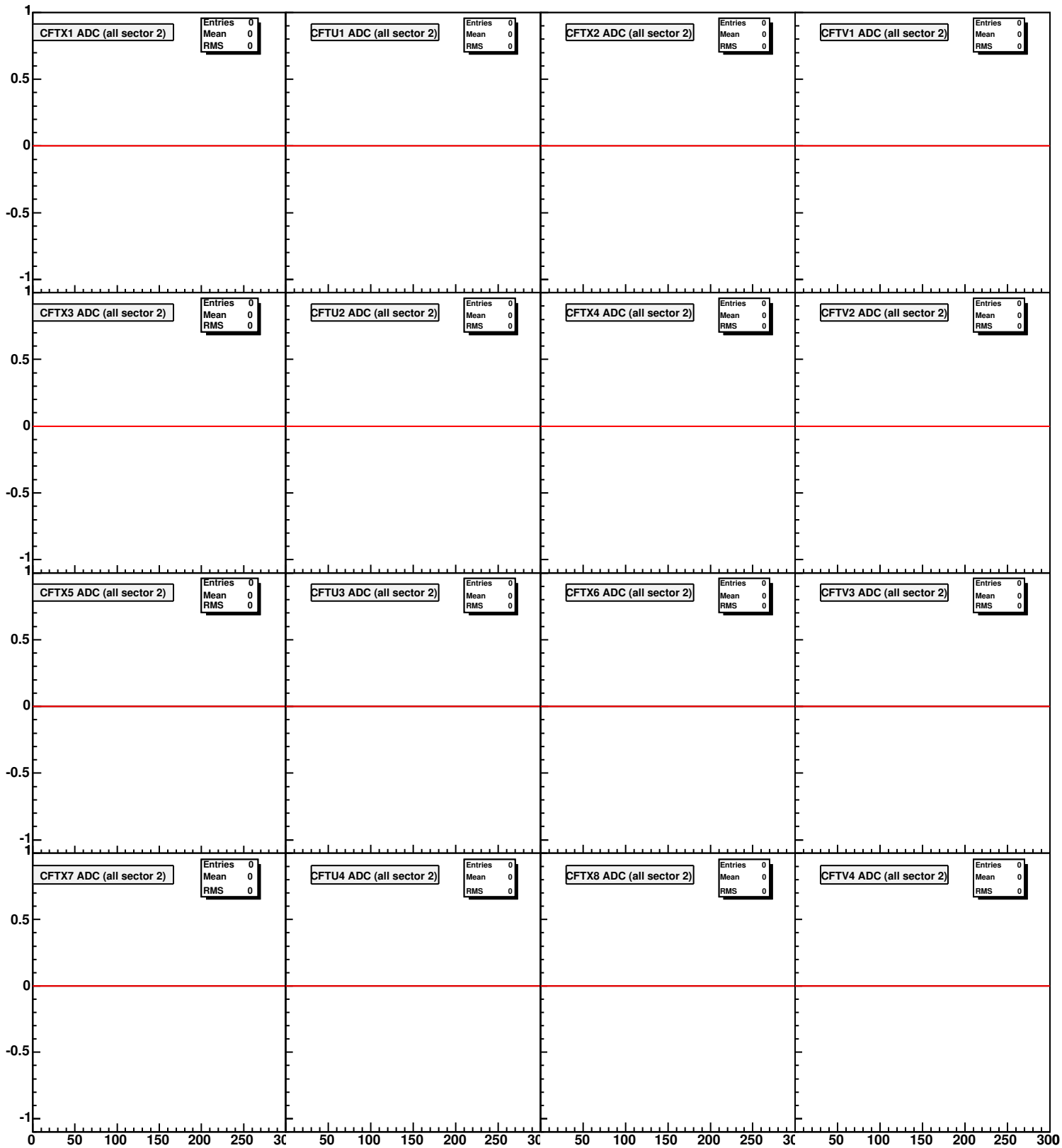
CFT ADC (singlet) (Clusters on tracks)



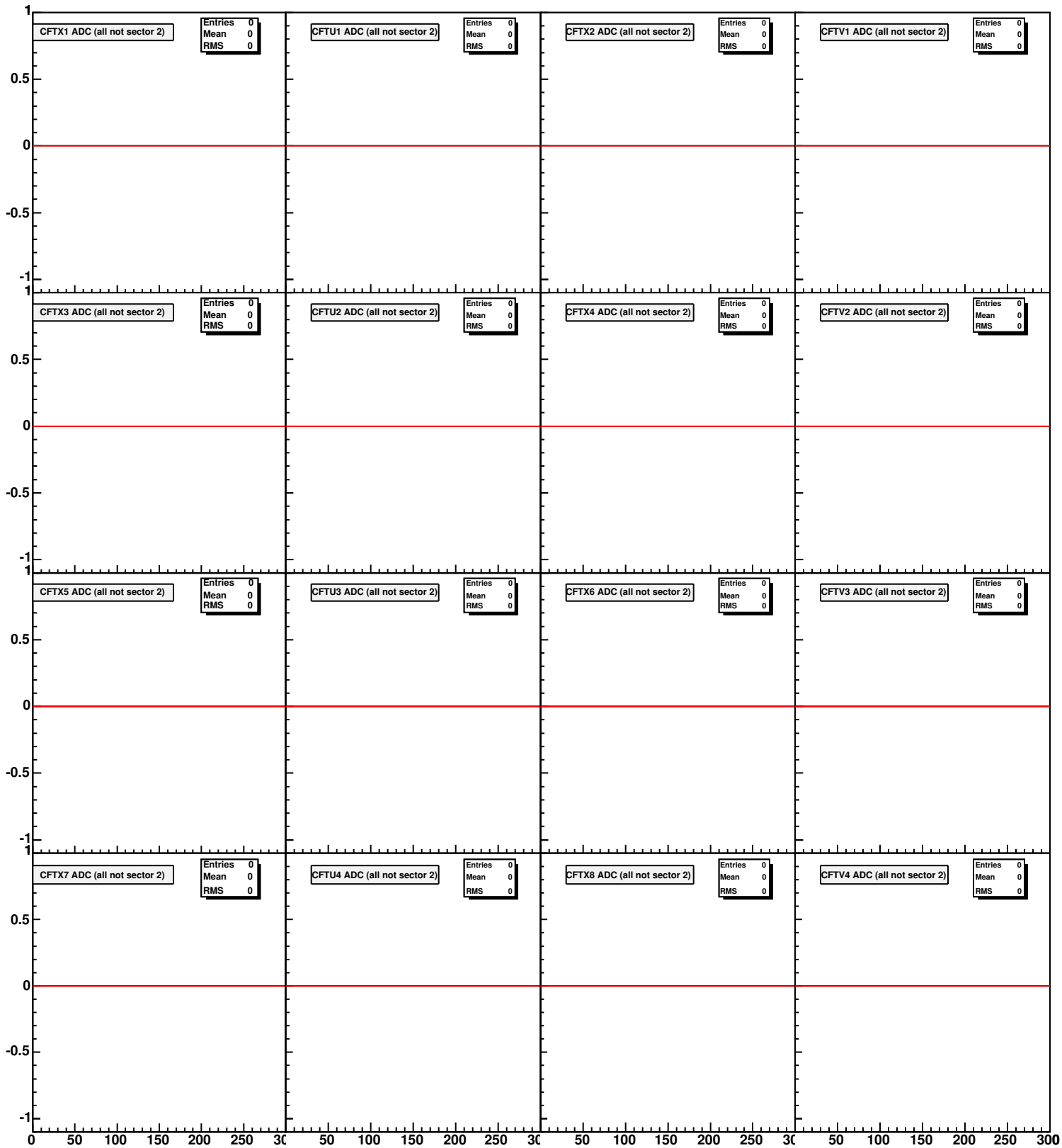
CFT ADC (doublet low) (Clusters on tracks)



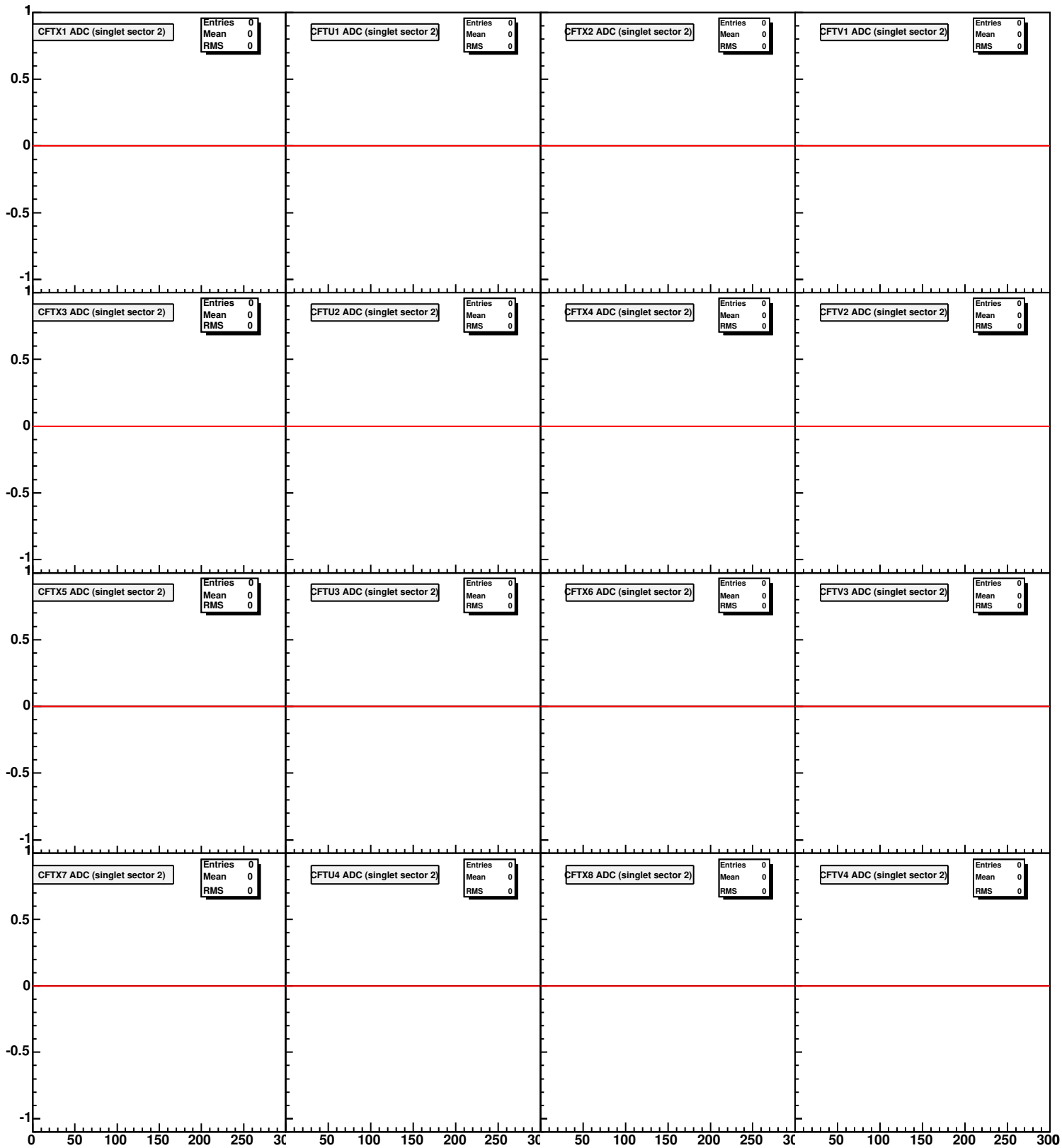
CFT ADC (doublet high) (Clusters on tracks)



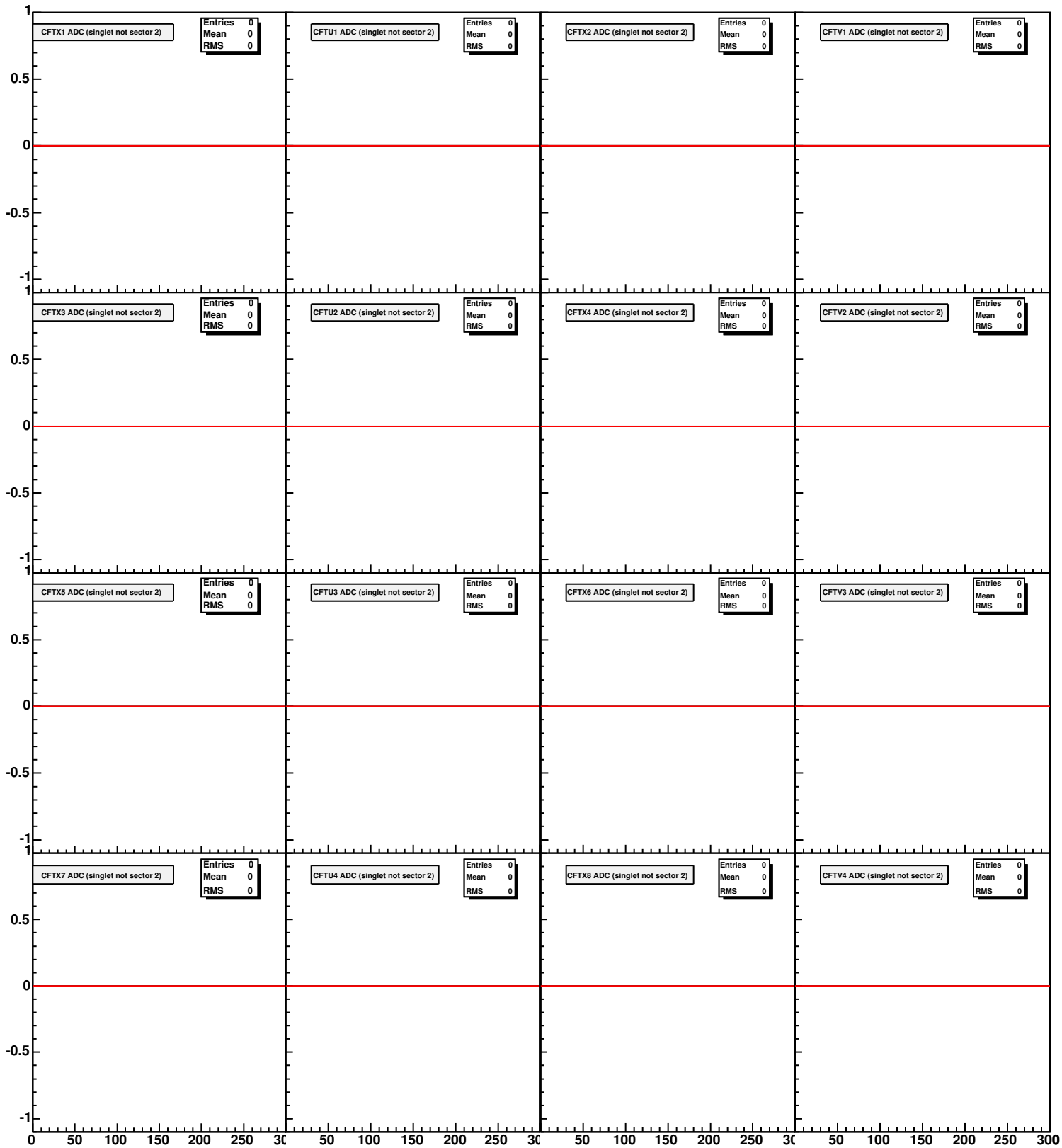
CFT ADC (all sector 2) (Clusters on tracks)



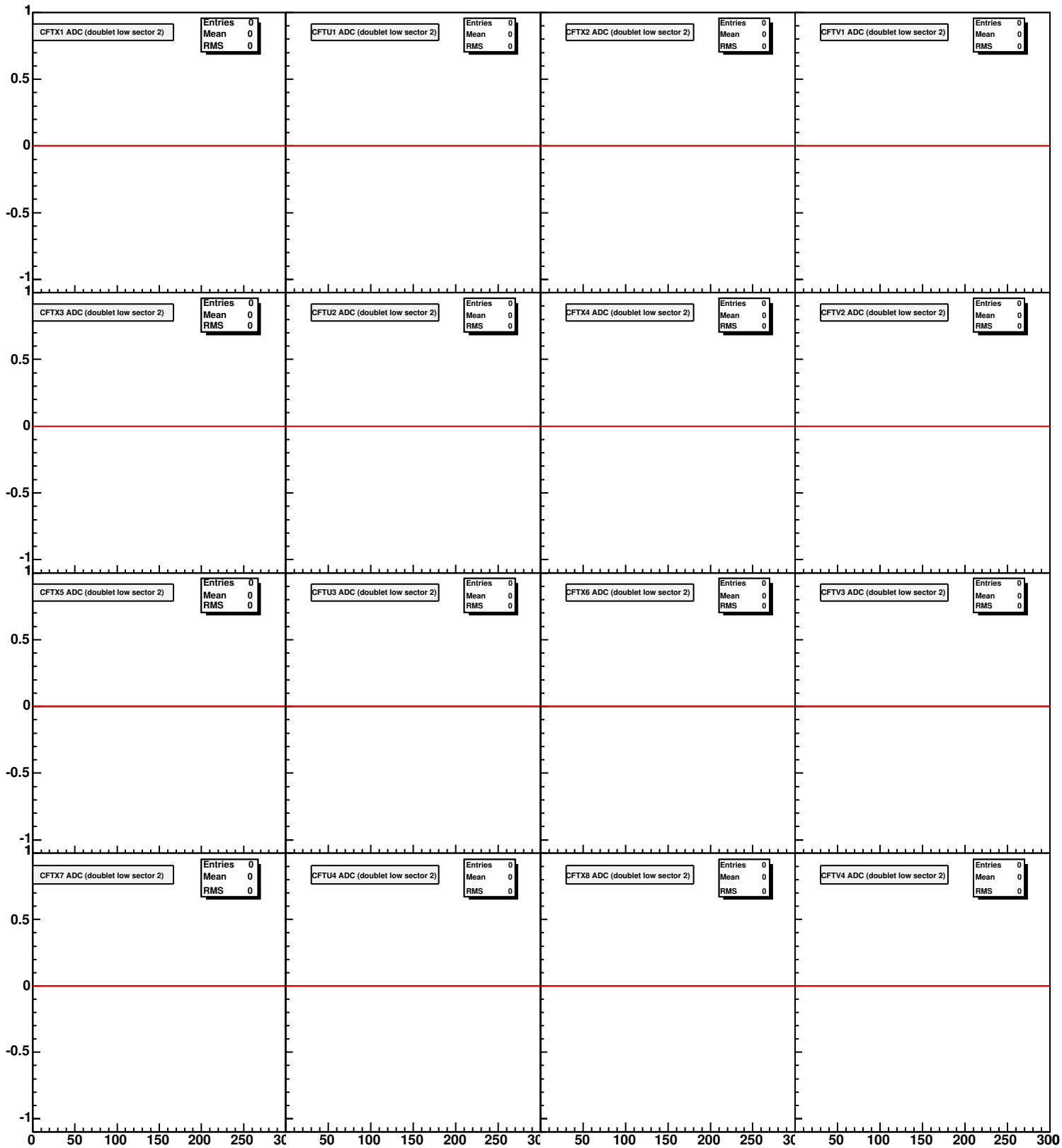
CFT ADC (all not sector 2) (Clusters on tracks)



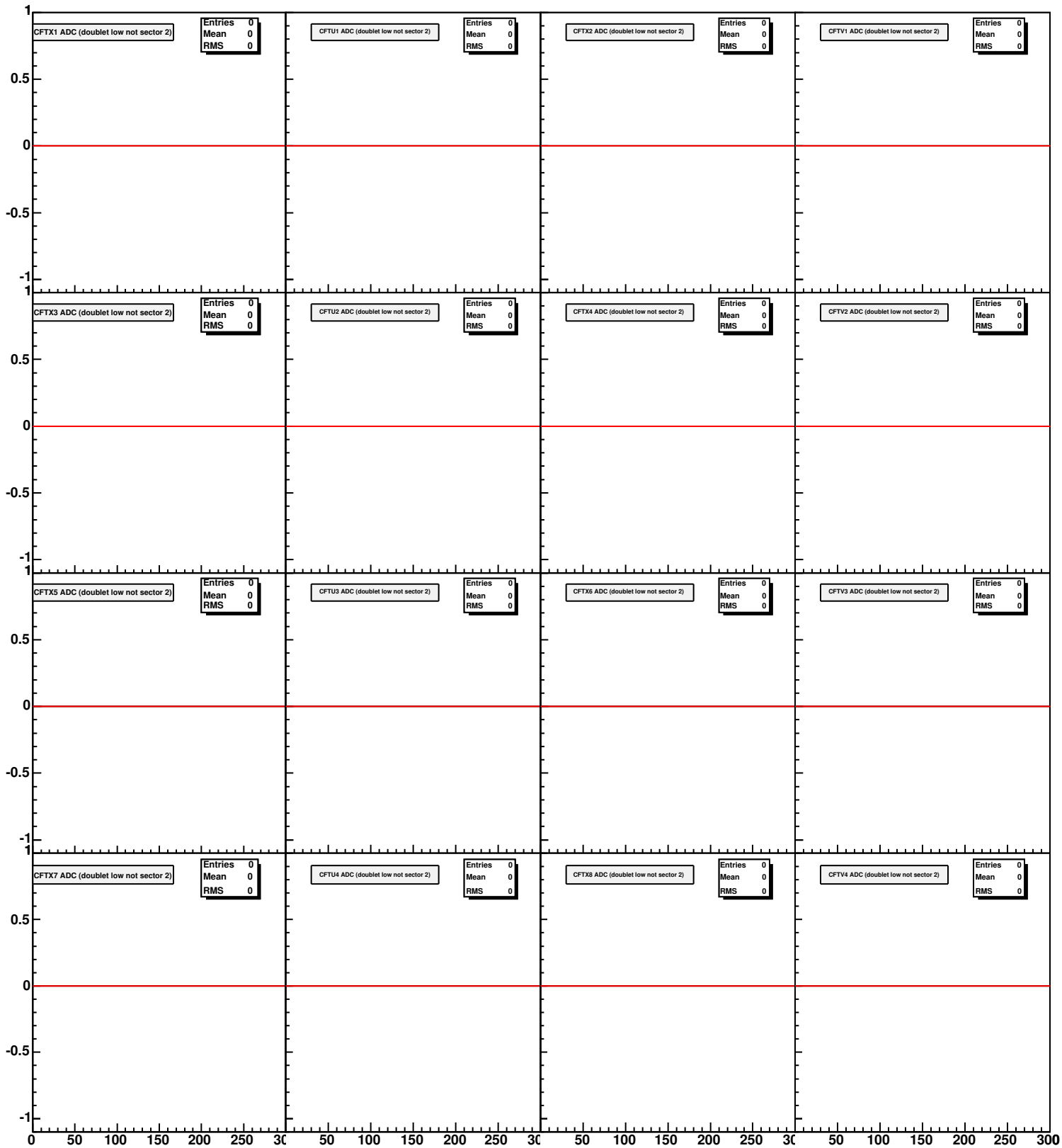
CFT ADC (singlet sector 2) (Clusters on tracks)



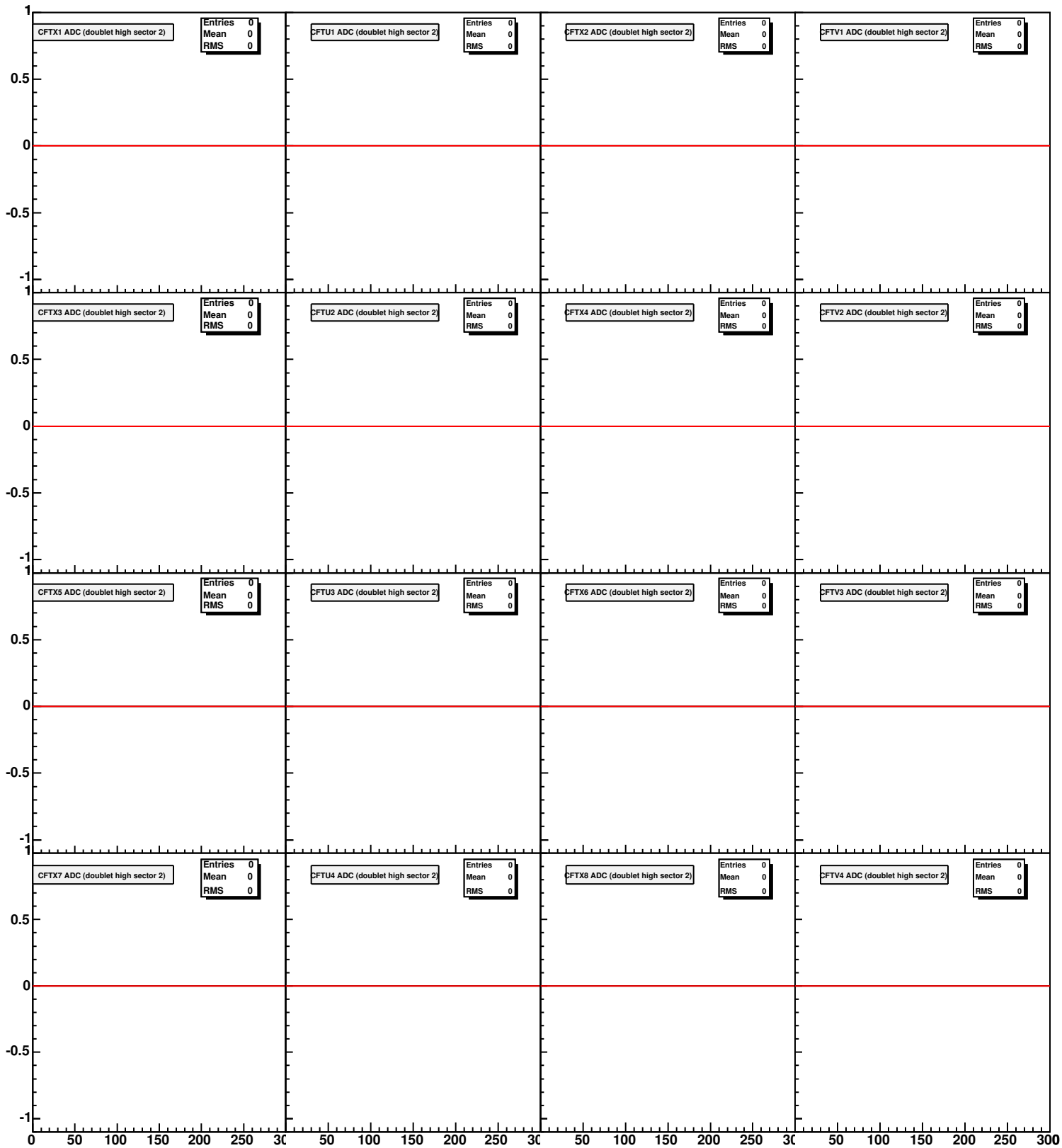
CFT ADC (singlet not sector 2) (Clusters on tracks)



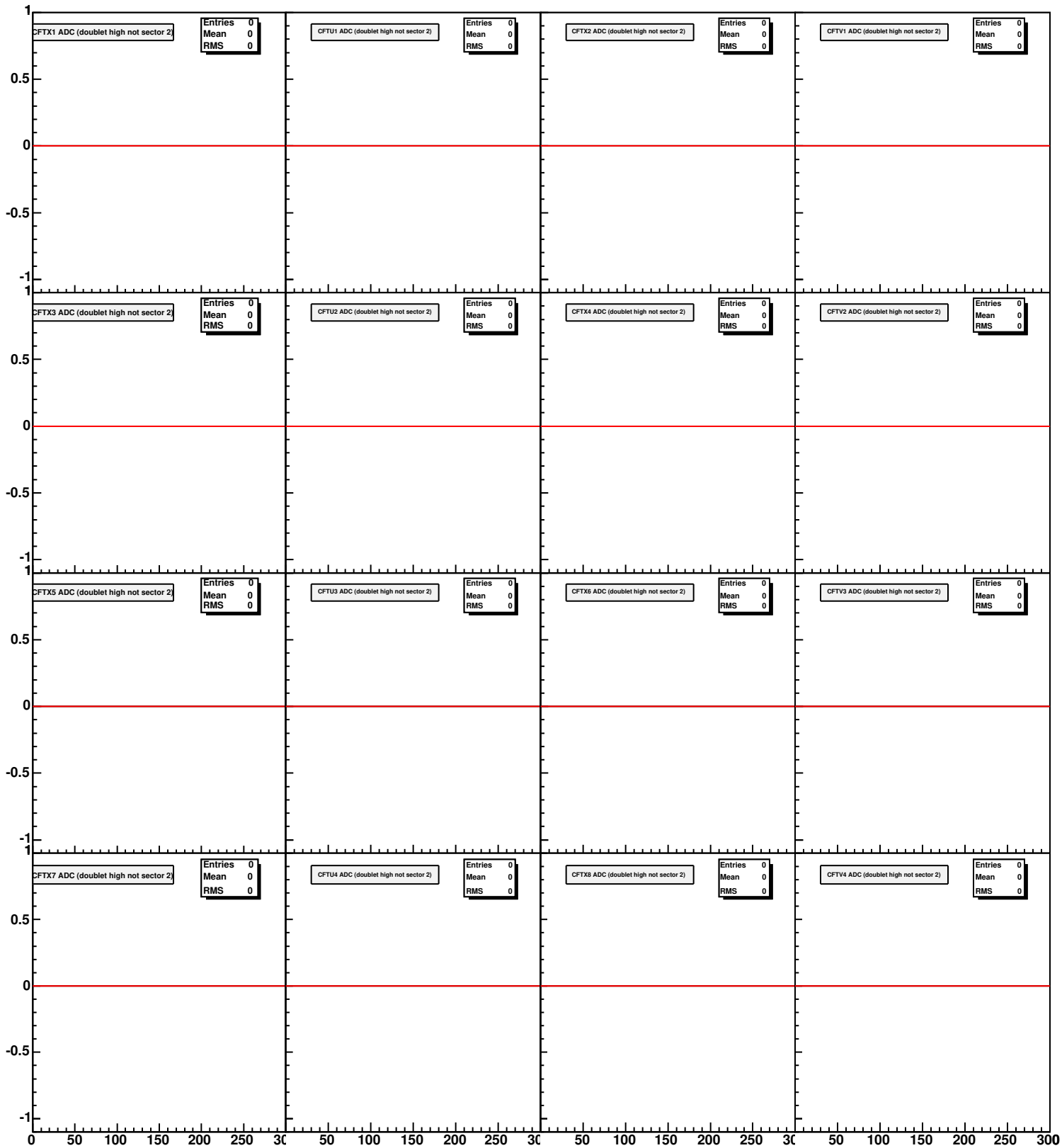
CFT ADC (doublet low sector 2) (Clusters on tracks)



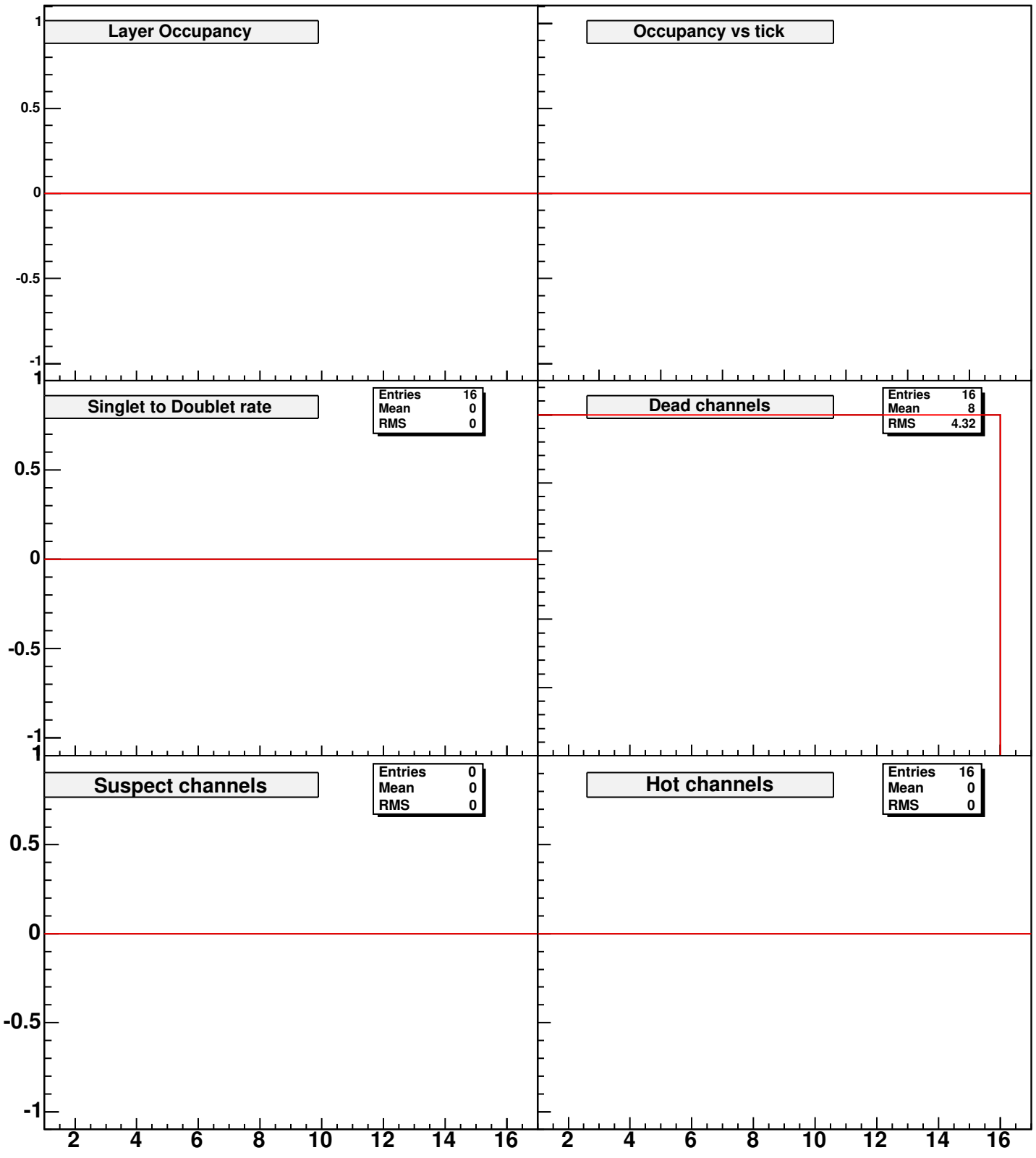
CFT ADC (doublet low not sector 2) (Clusters on tracks)



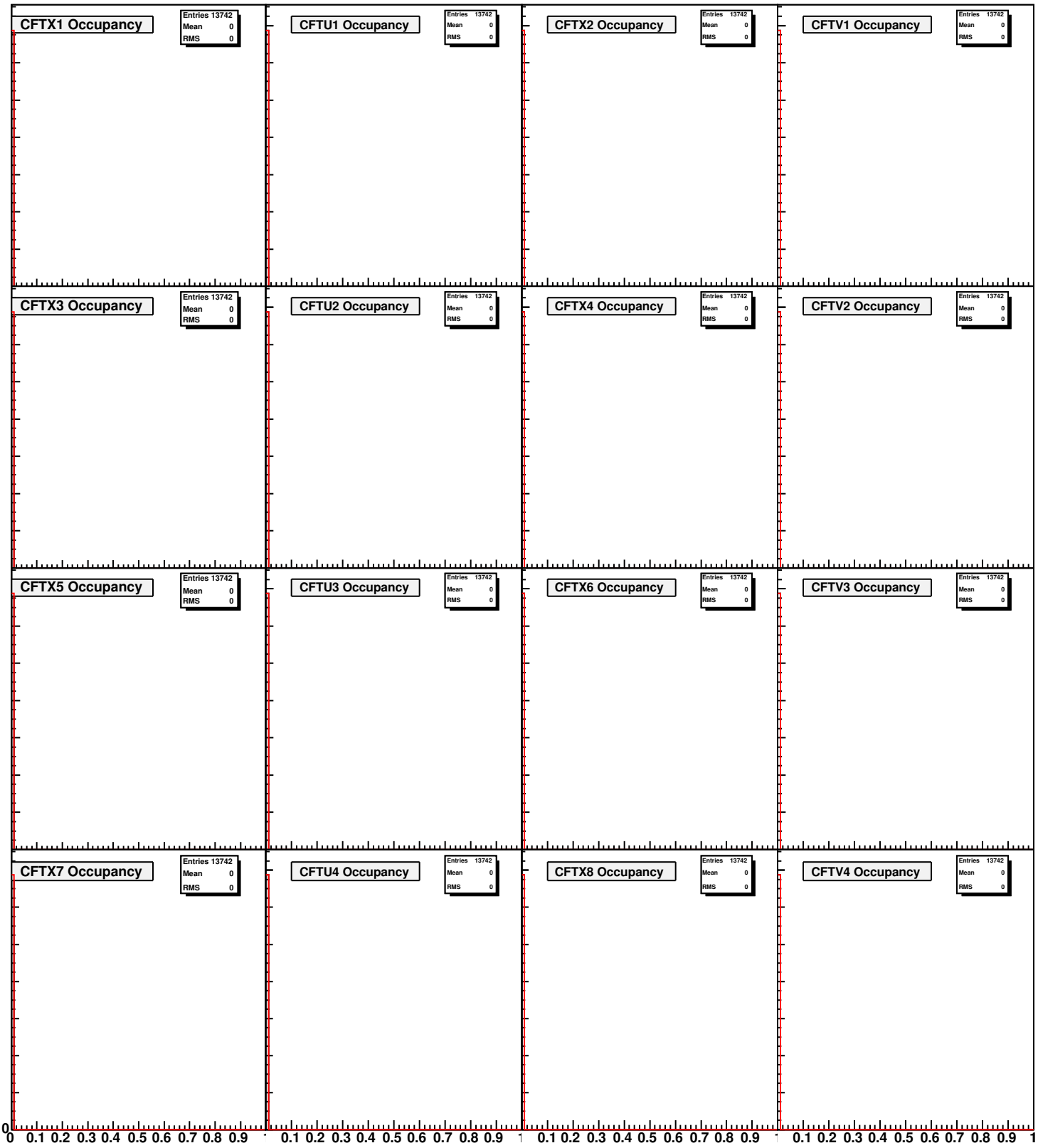
CFT ADC (doublet high sector 2) (Clusters on tracks)



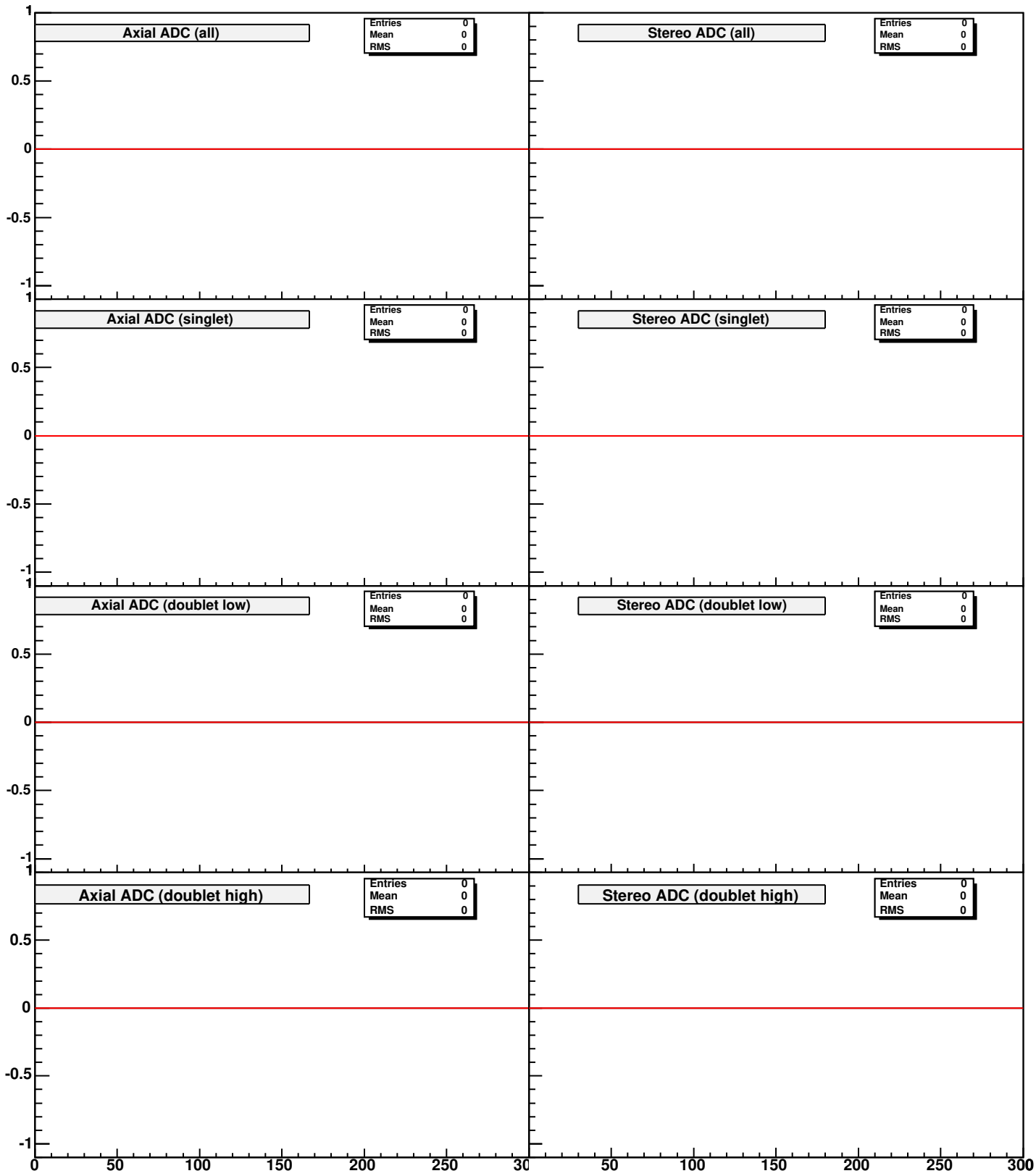
CFT ADC (doublet high not sector 2) (Clusters on tracks)



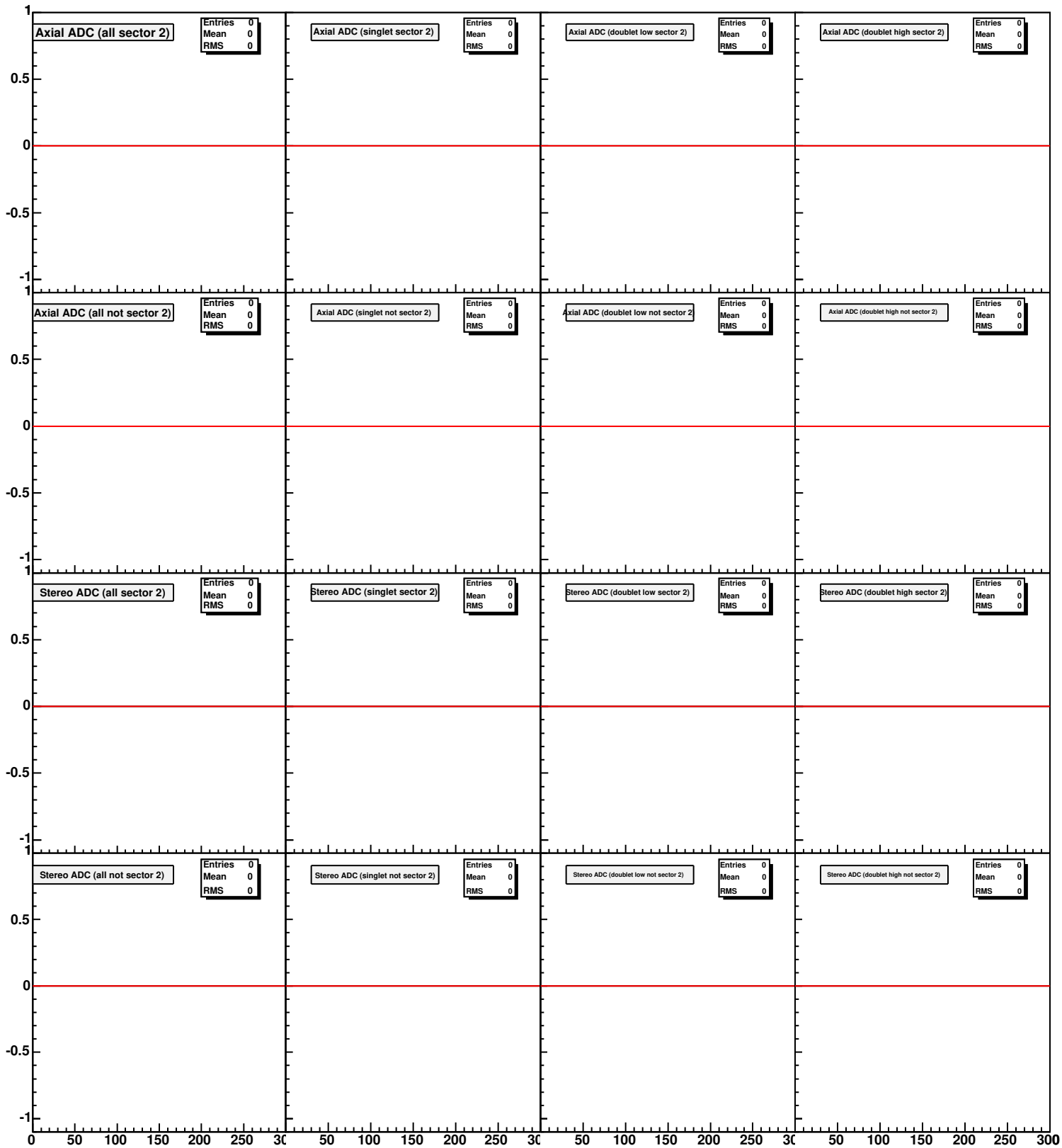
CFT Summary (Clusters on muons)



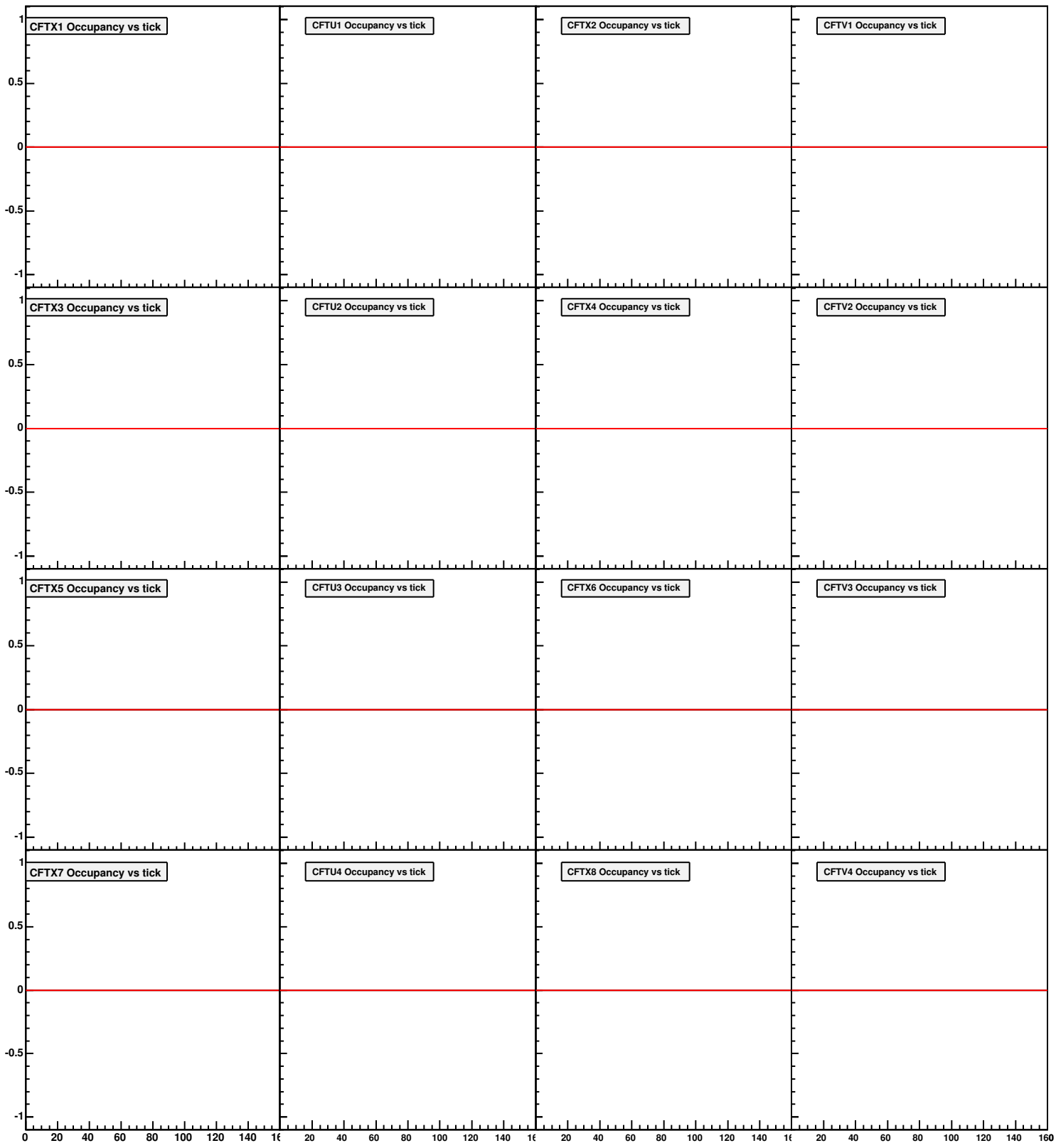
CFT Occupancy (Clusters on muons)



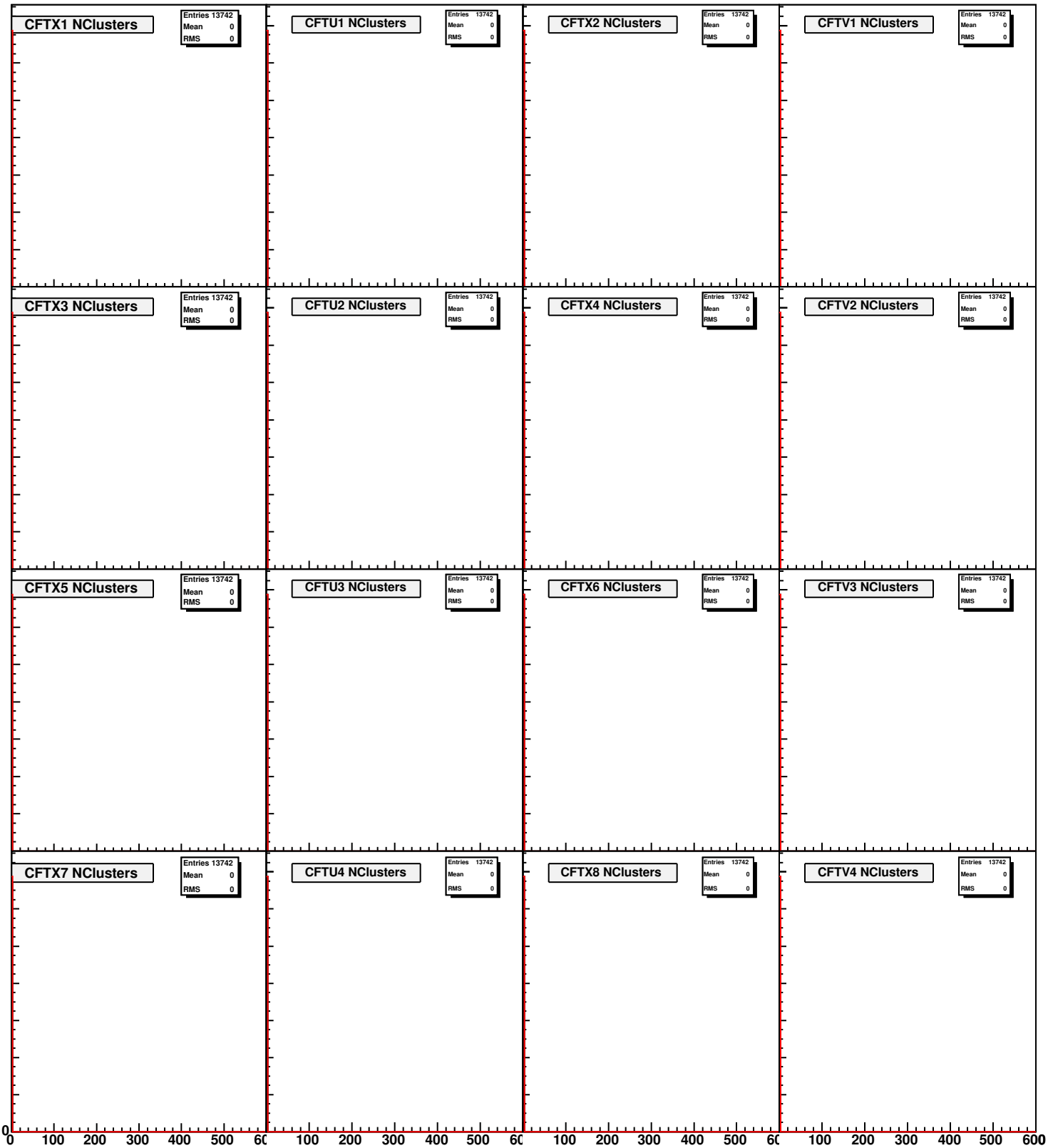
CFT ADC Summary (Clusters on muons)



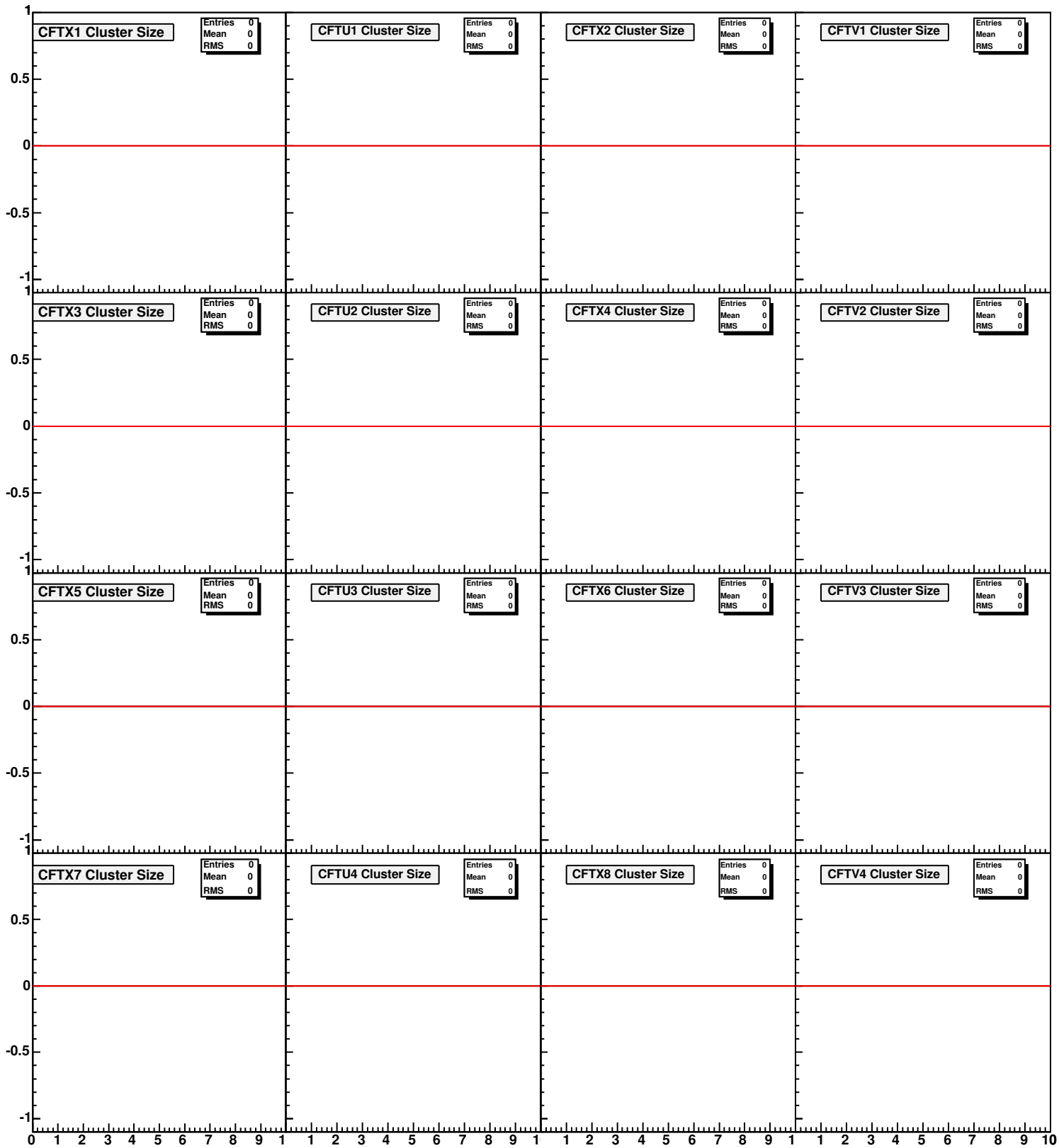
CFT ADC Summary By Sector (Clusters on muons)



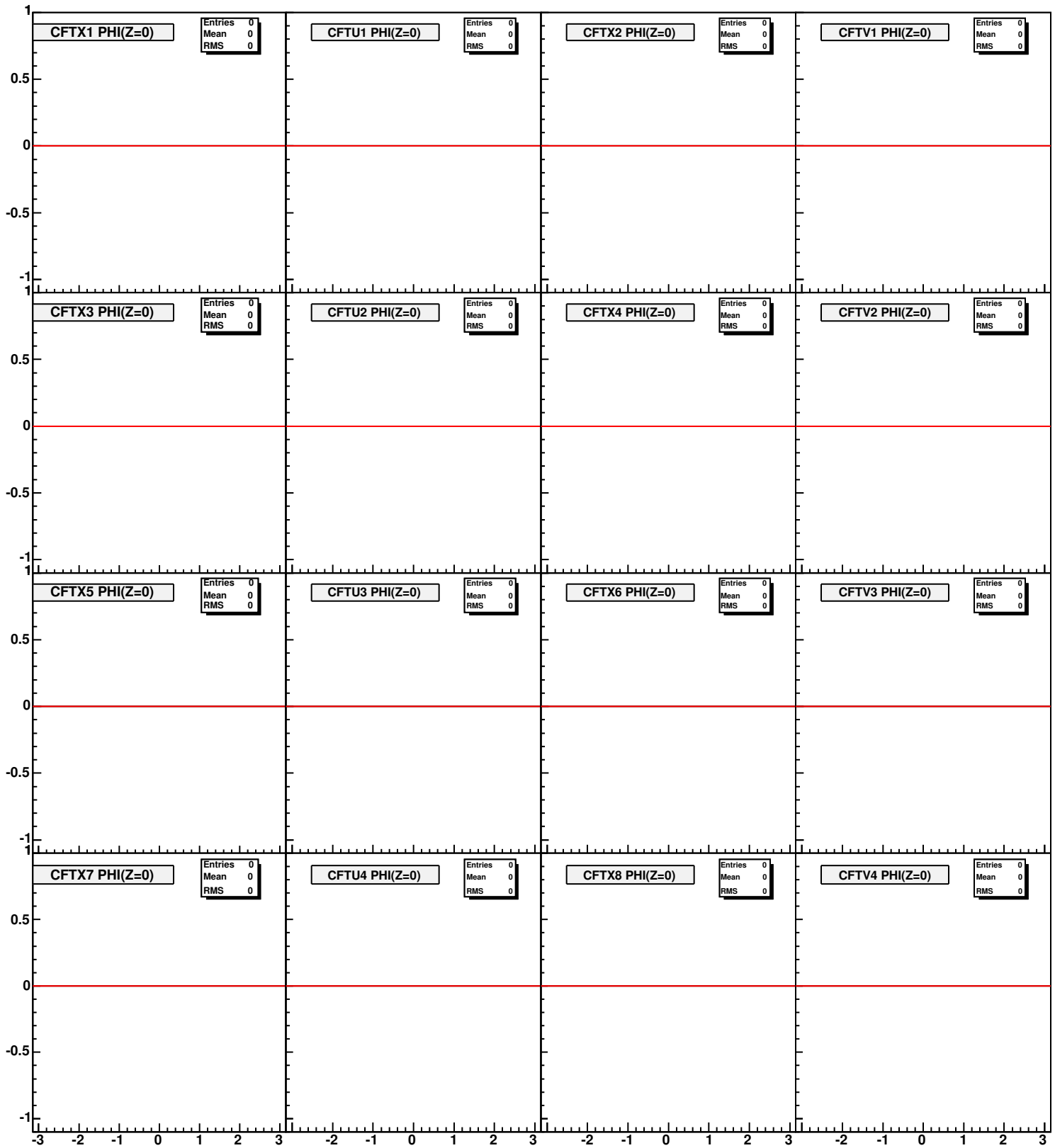
CFT Occupancy vs Tick (Clusters on muons)



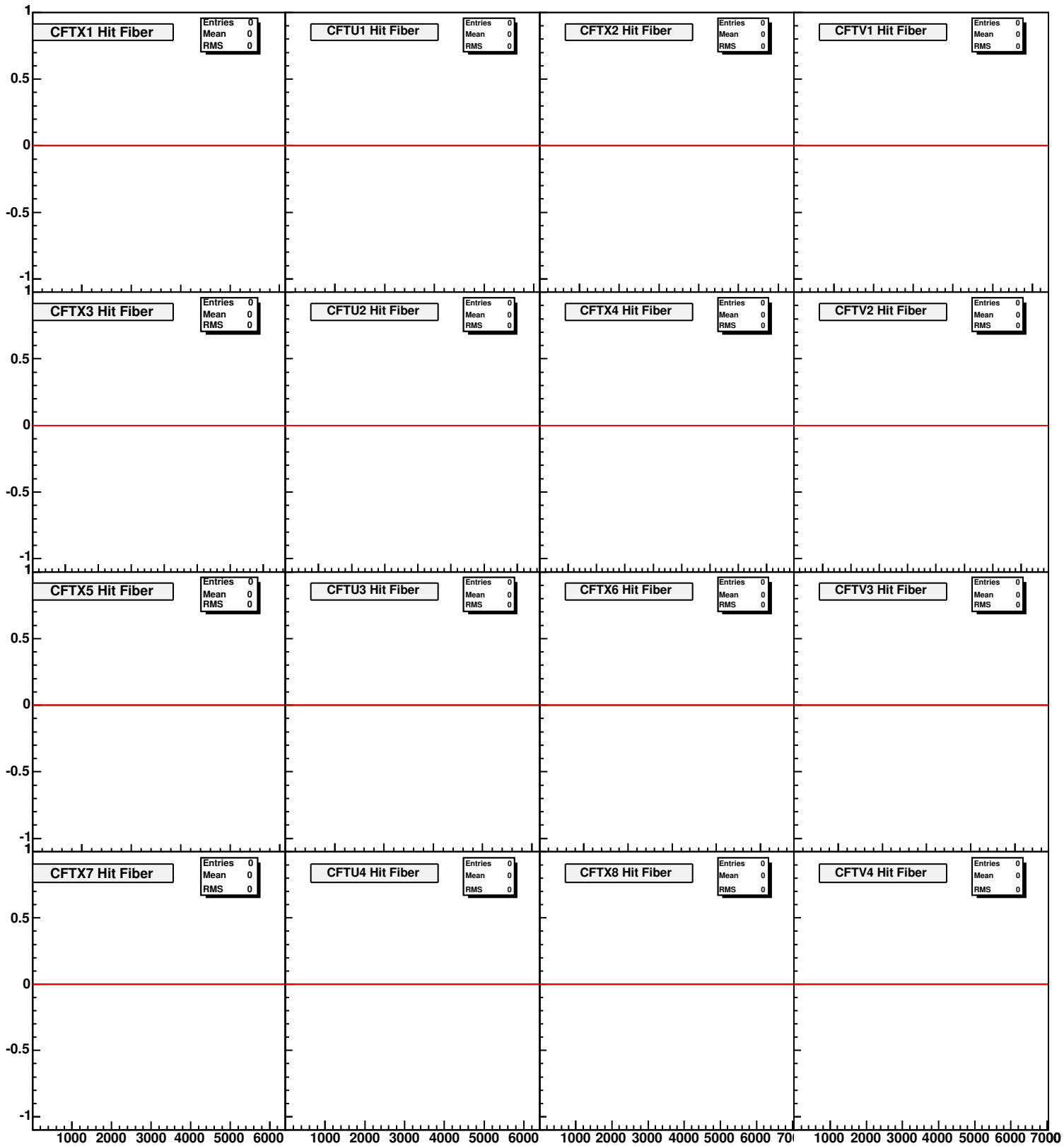
CFT NClusters (Clusters on muons)



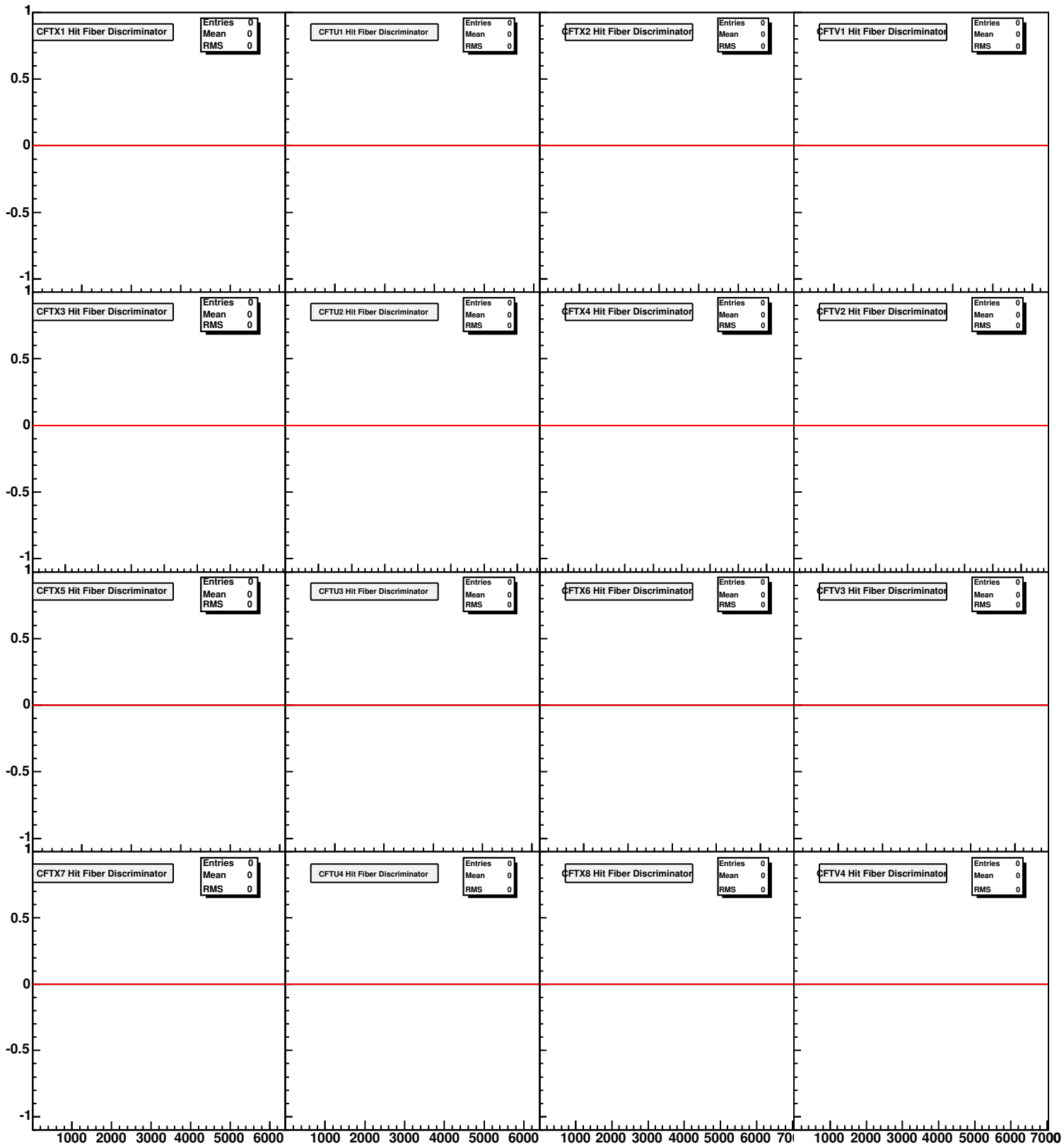
CFT Cluster Size (Clusters on muons)



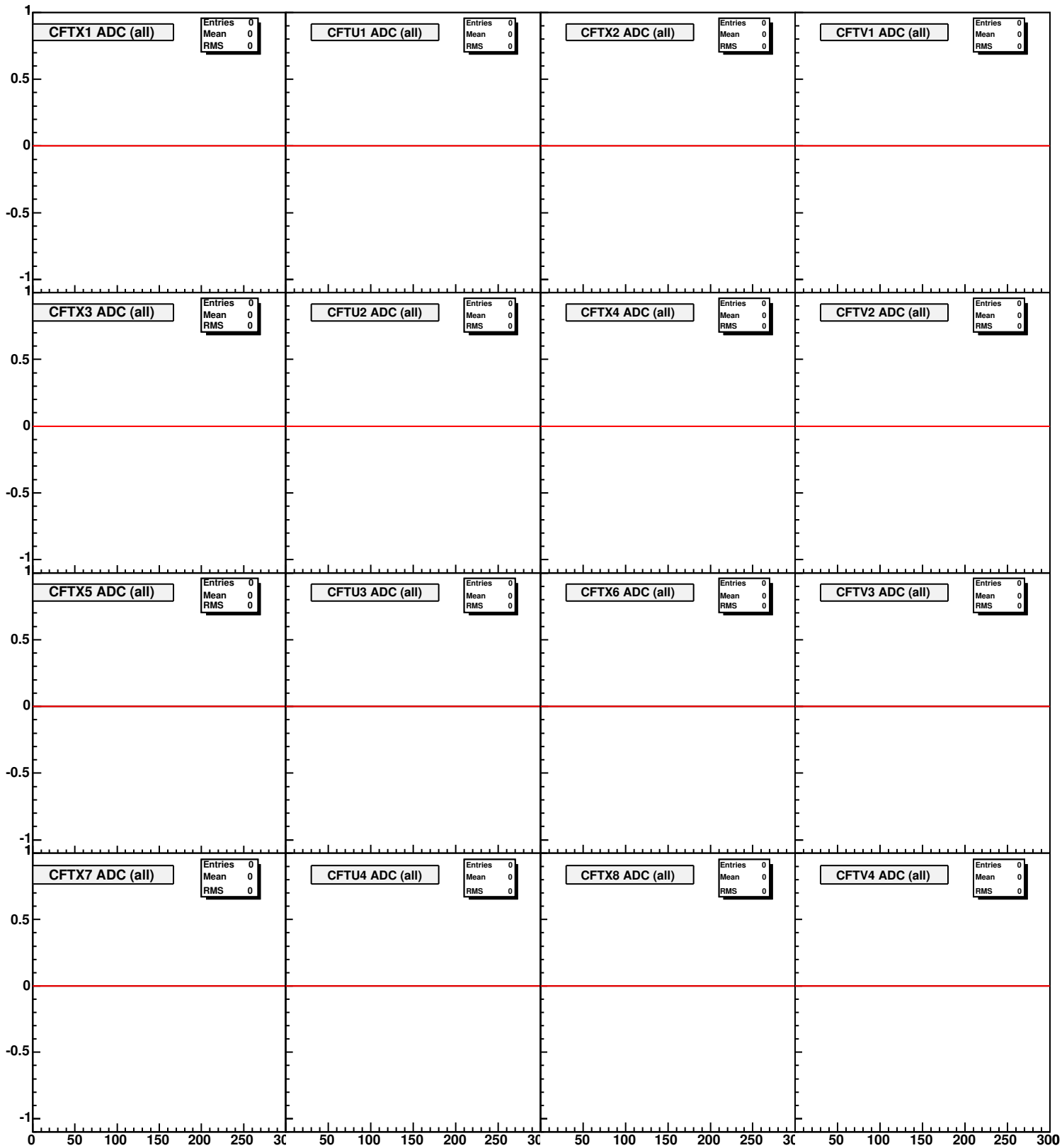
CFT PHI(Z=0) (Clusters on muons)



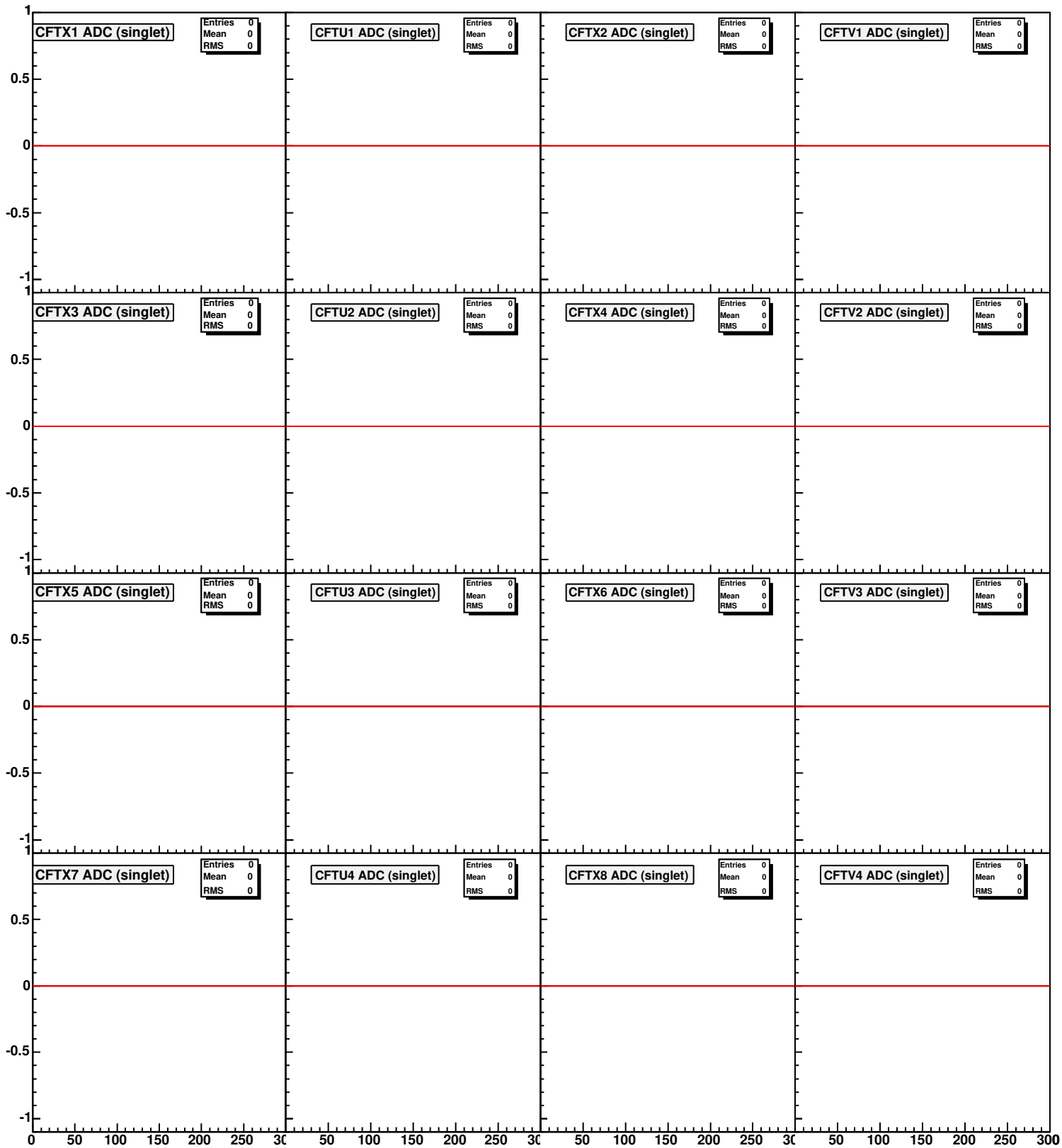
CFT Hit Fiber (Clusters on muons)



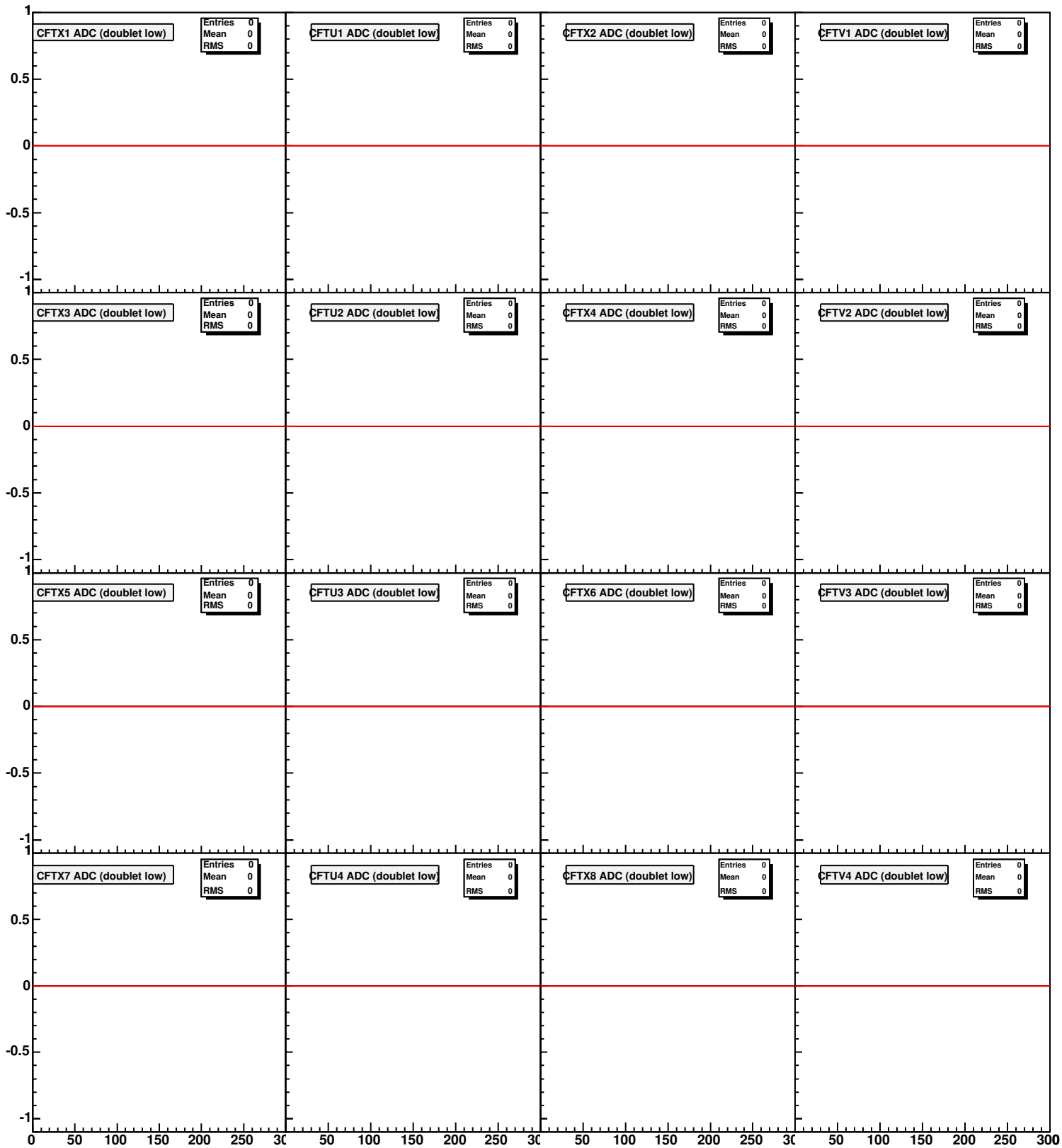
CFT Hit Fiber Discriminator (Clusters on muons)



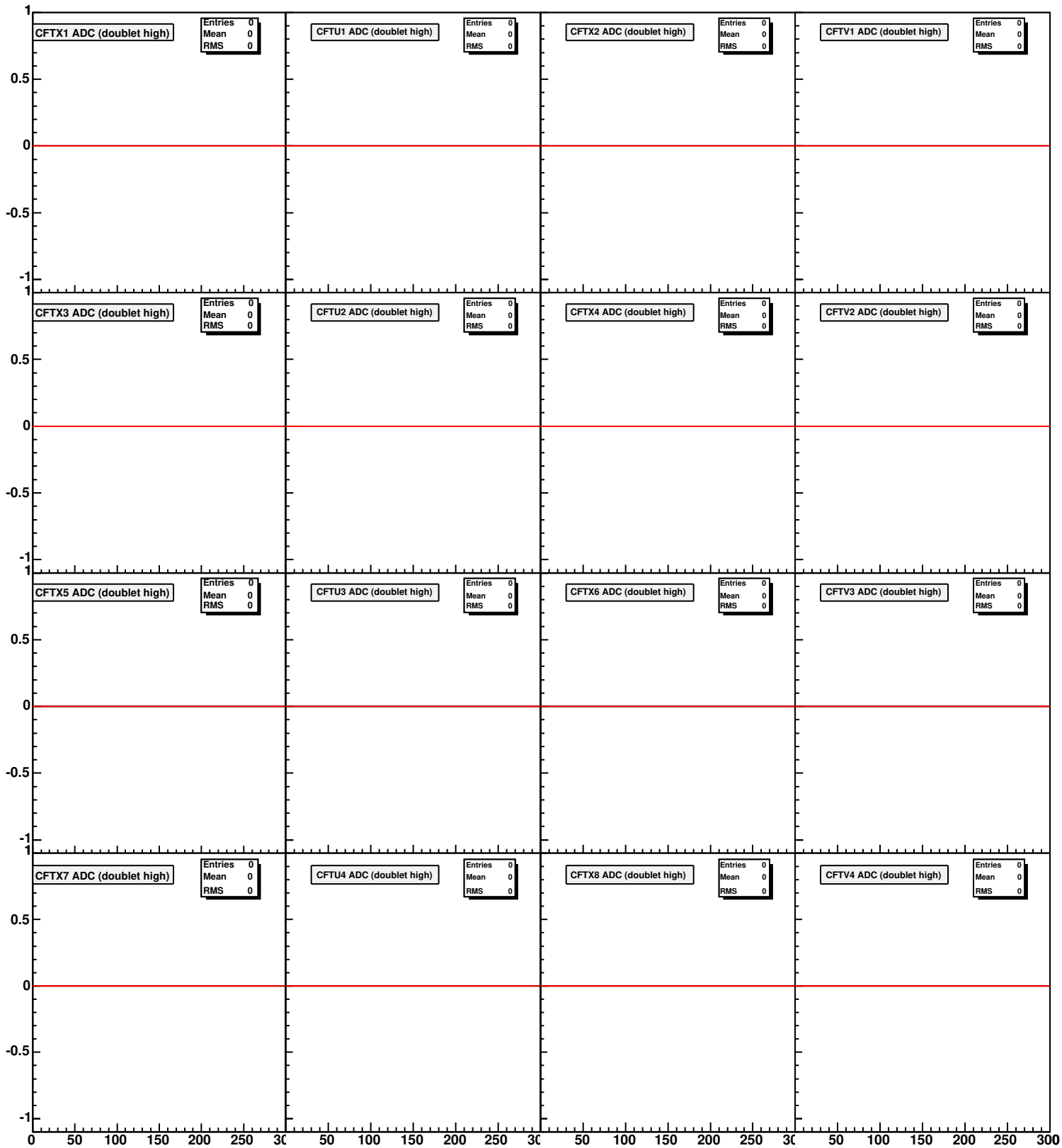
CFT ADC (all) (Clusters on muons)



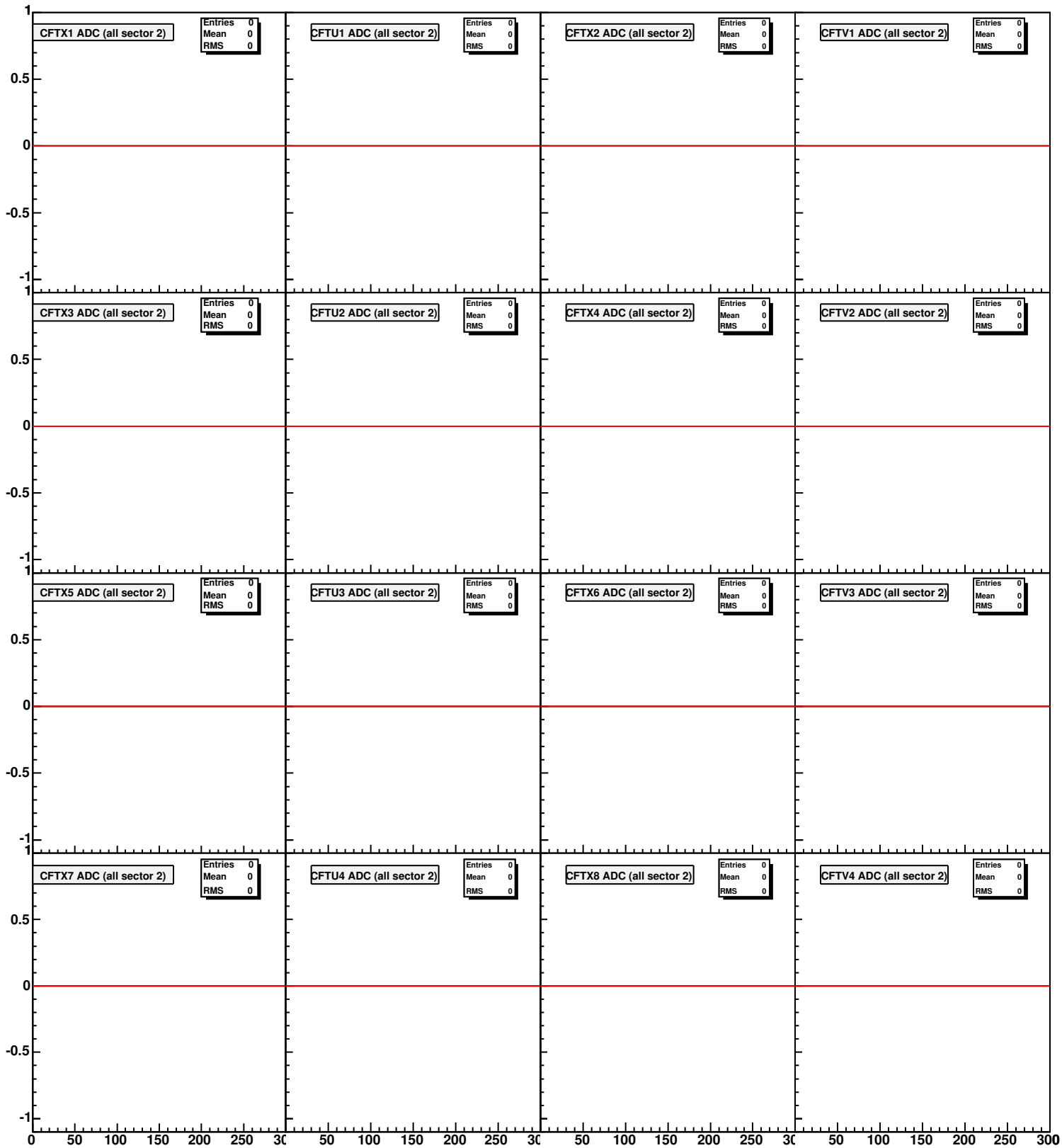
CFT ADC (singlet) (Clusters on muons)



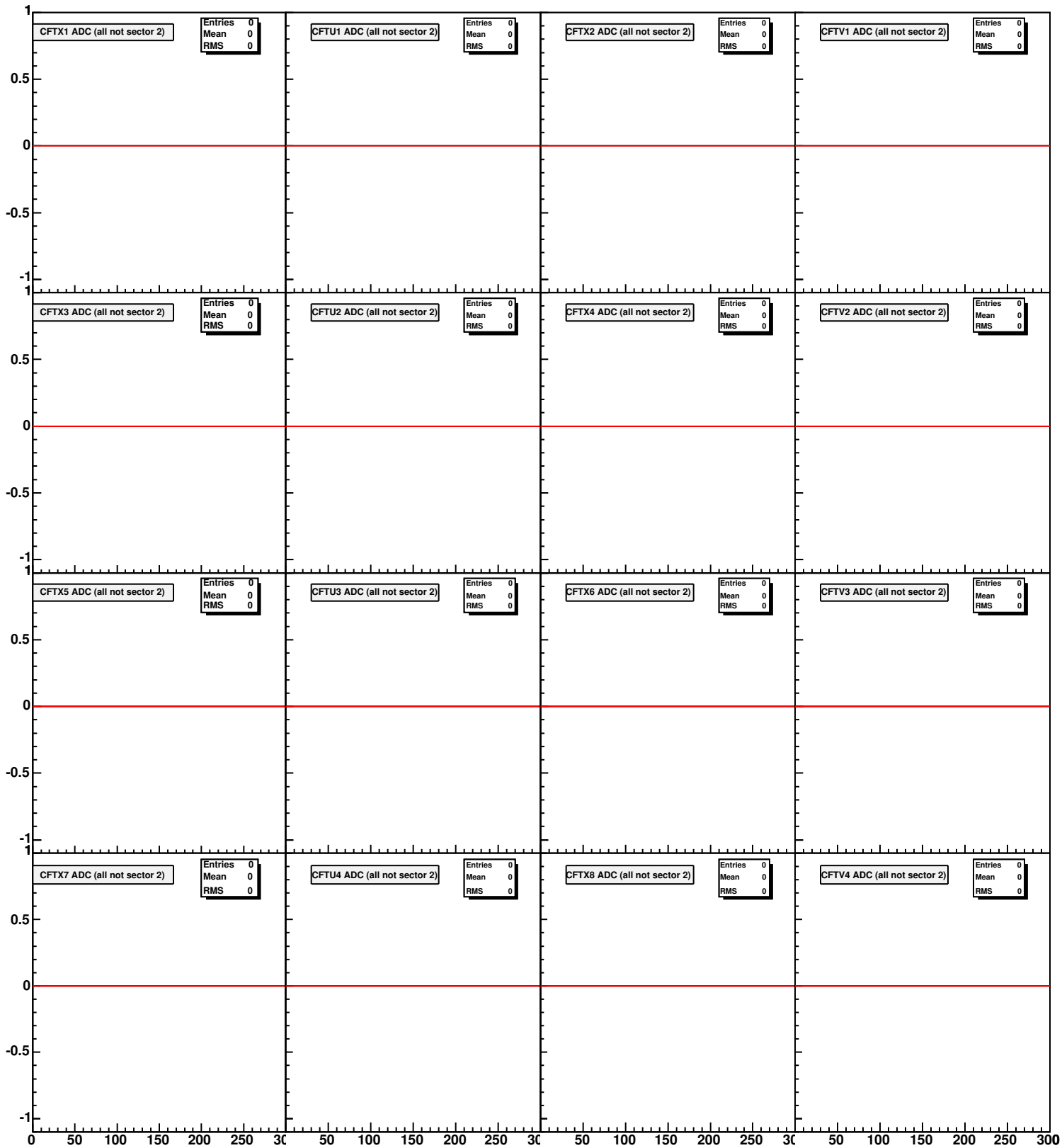
CFT ADC (doublet low) (Clusters on muons)



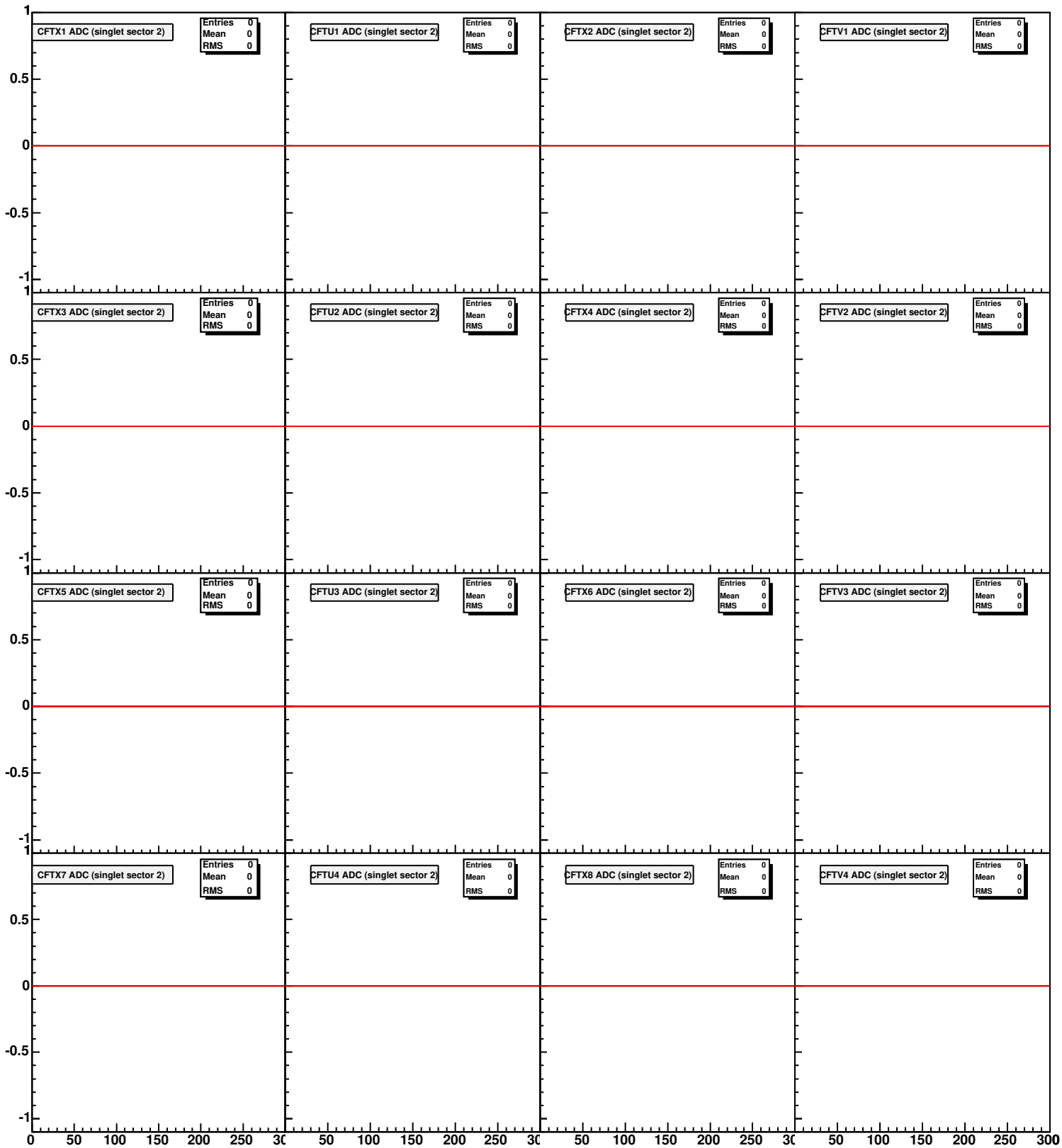
CFT ADC (doublet high) (Clusters on muons)



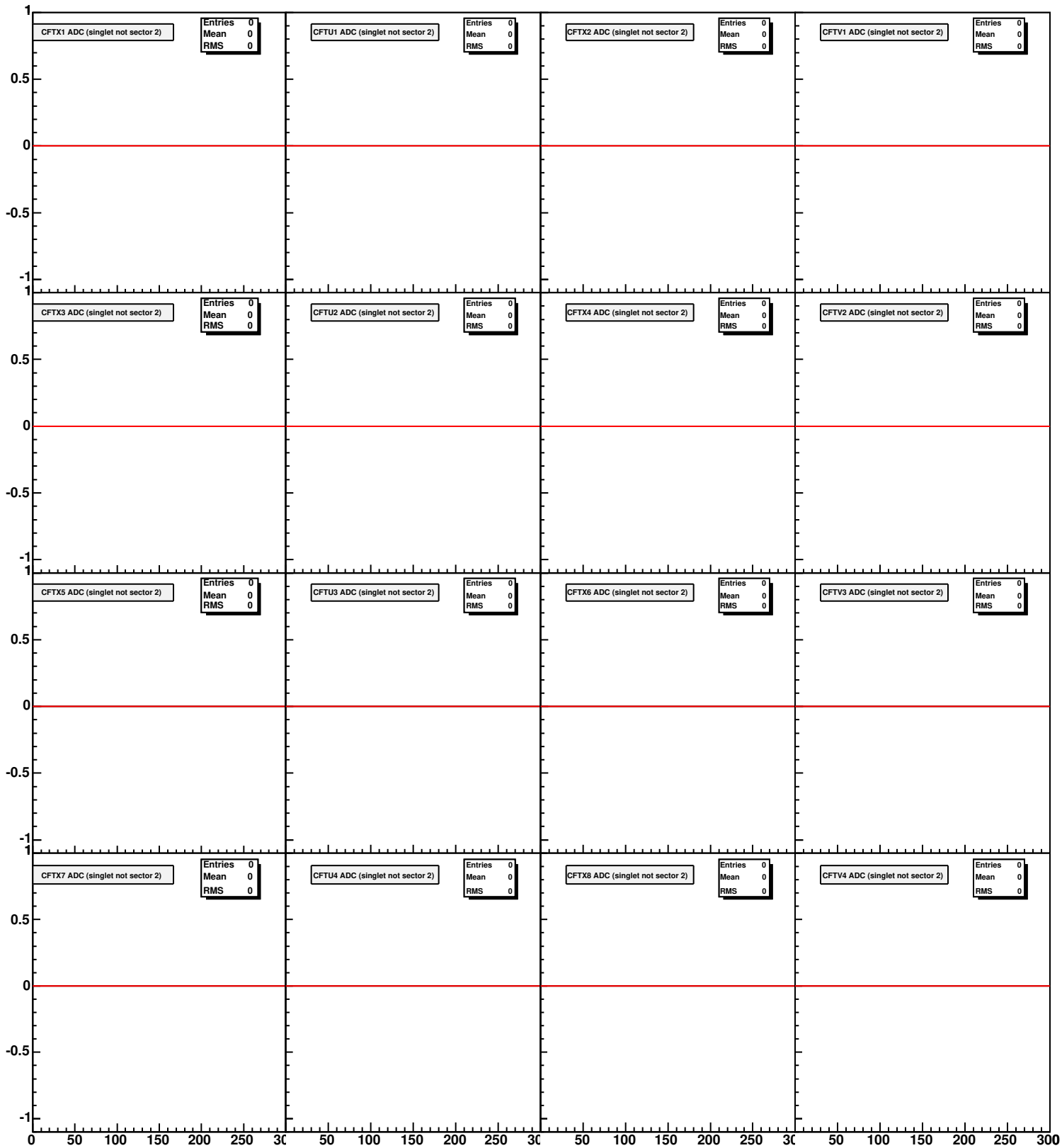
CFT ADC (all sector 2) (Clusters on muons)



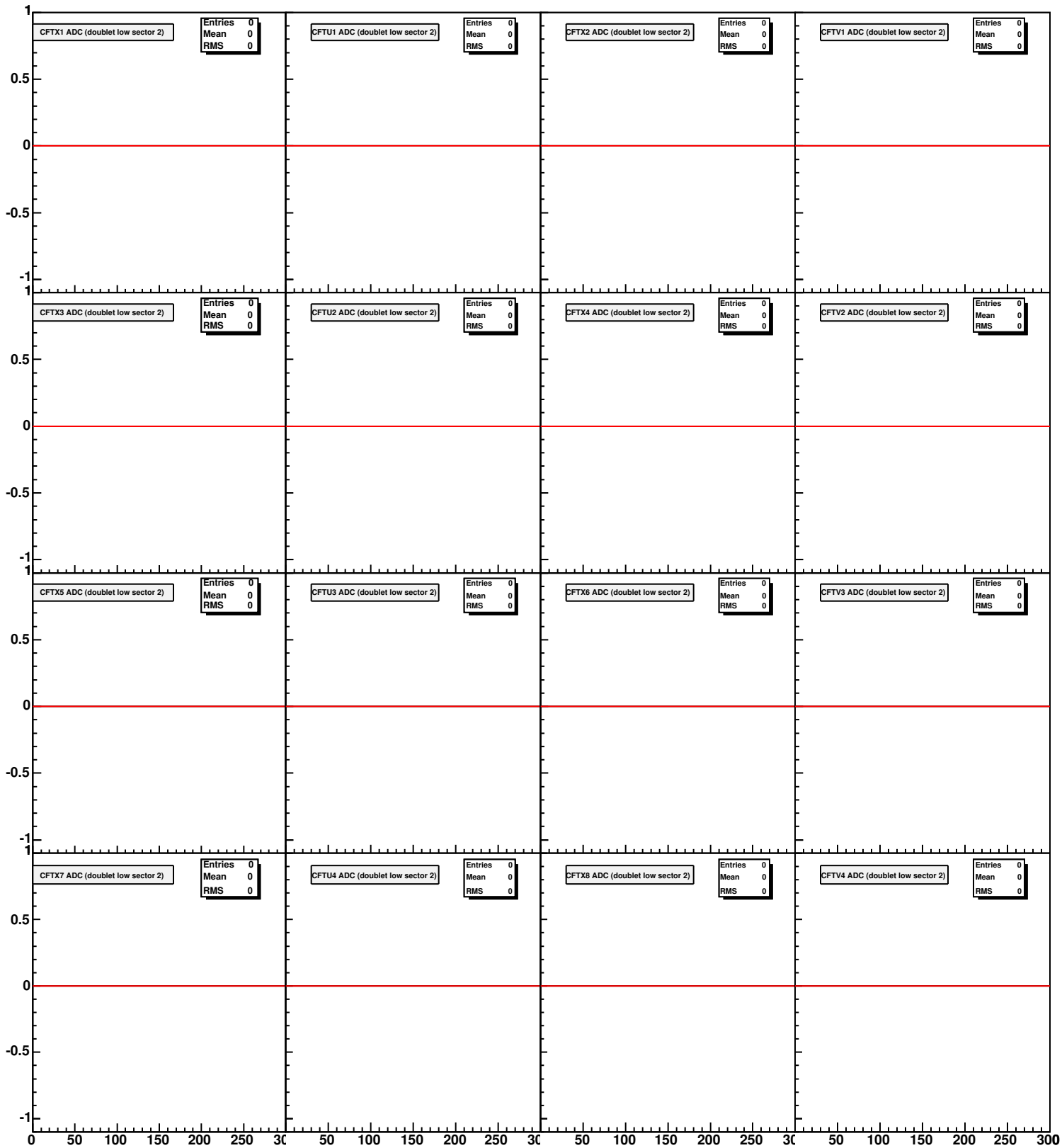
CFT ADC (all not sector 2) (Clusters on muons)



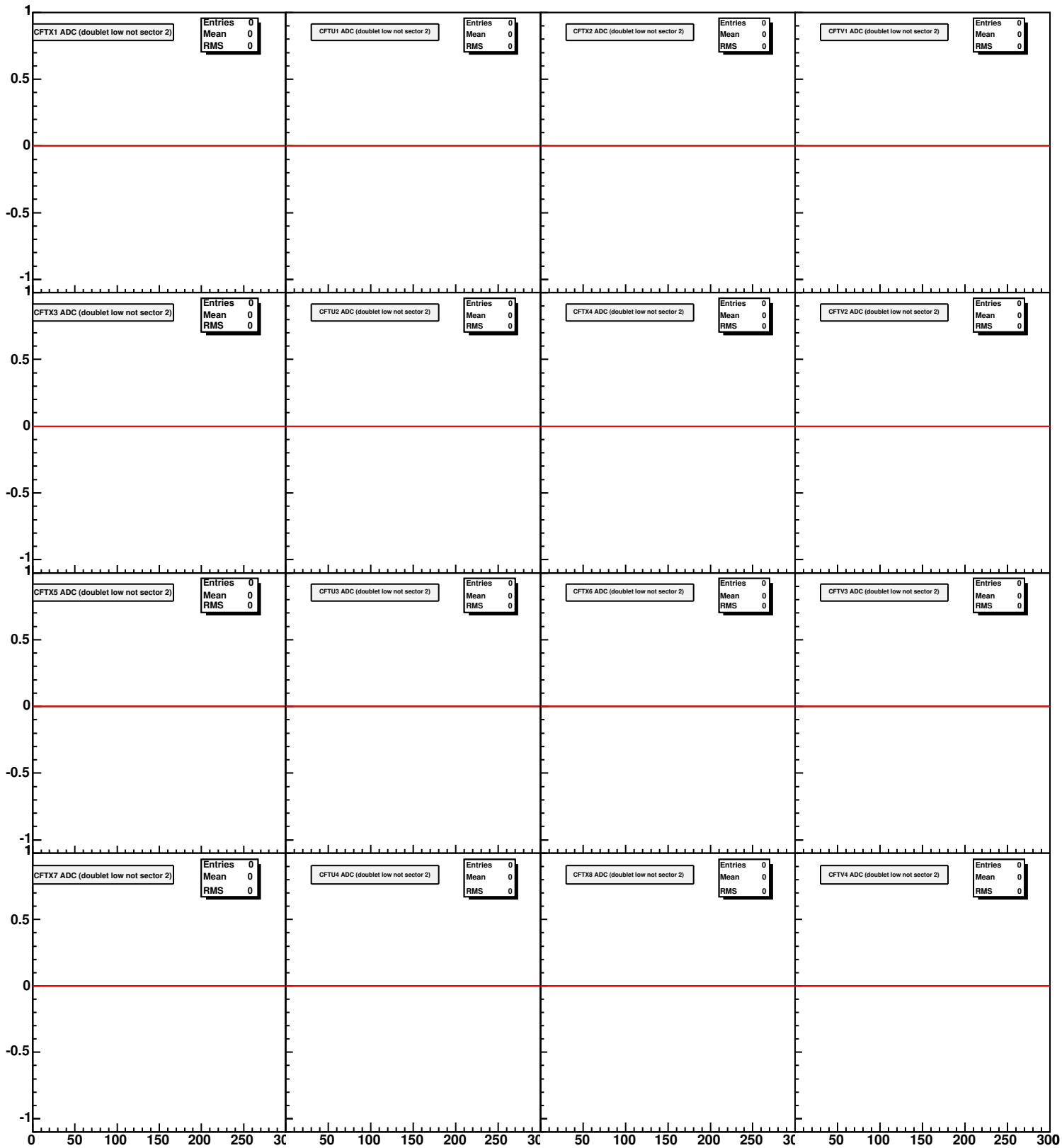
CFT ADC (singlet sector 2) (Clusters on muons)



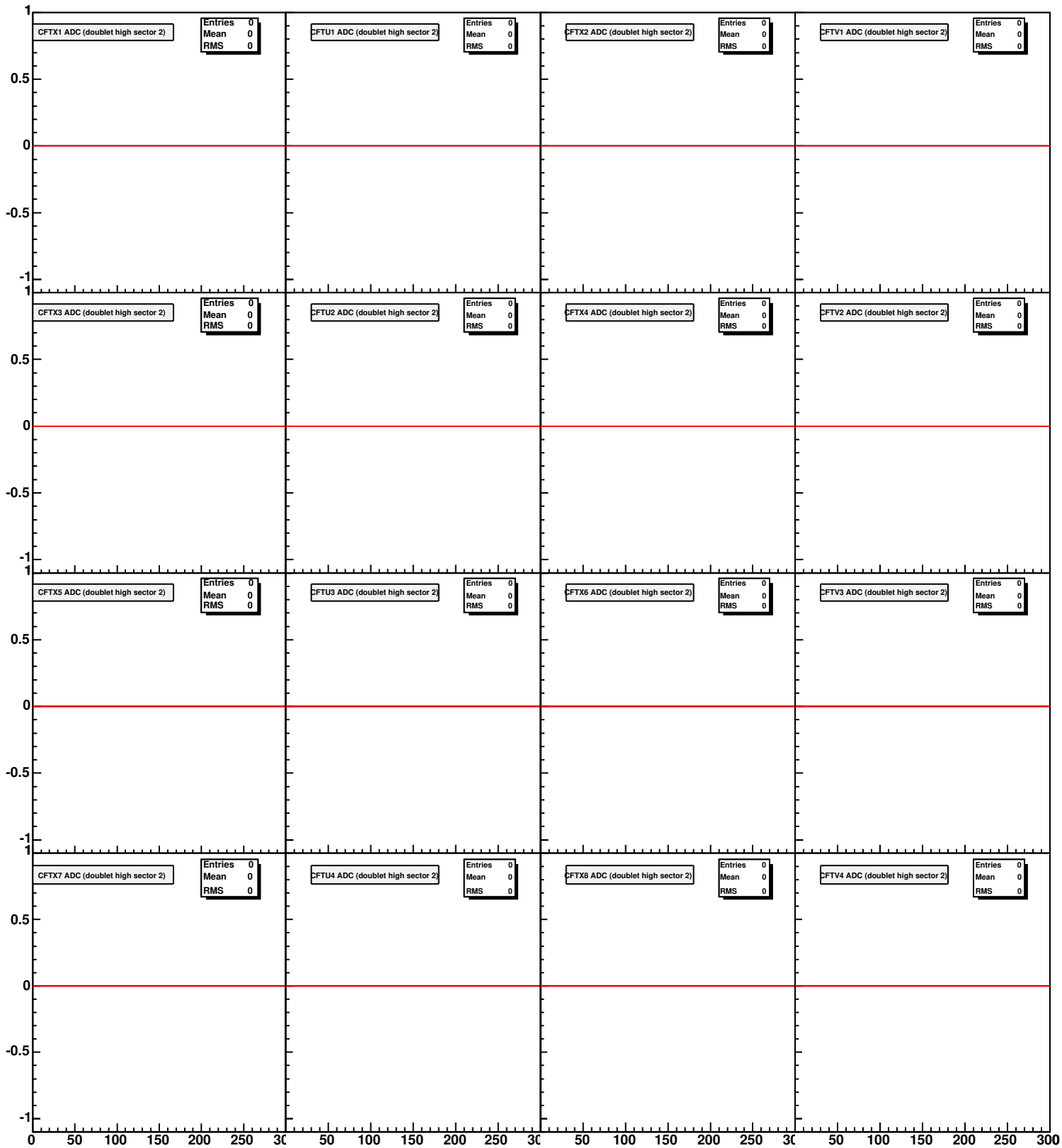
CFT ADC (singlet not sector 2) (Clusters on muons)



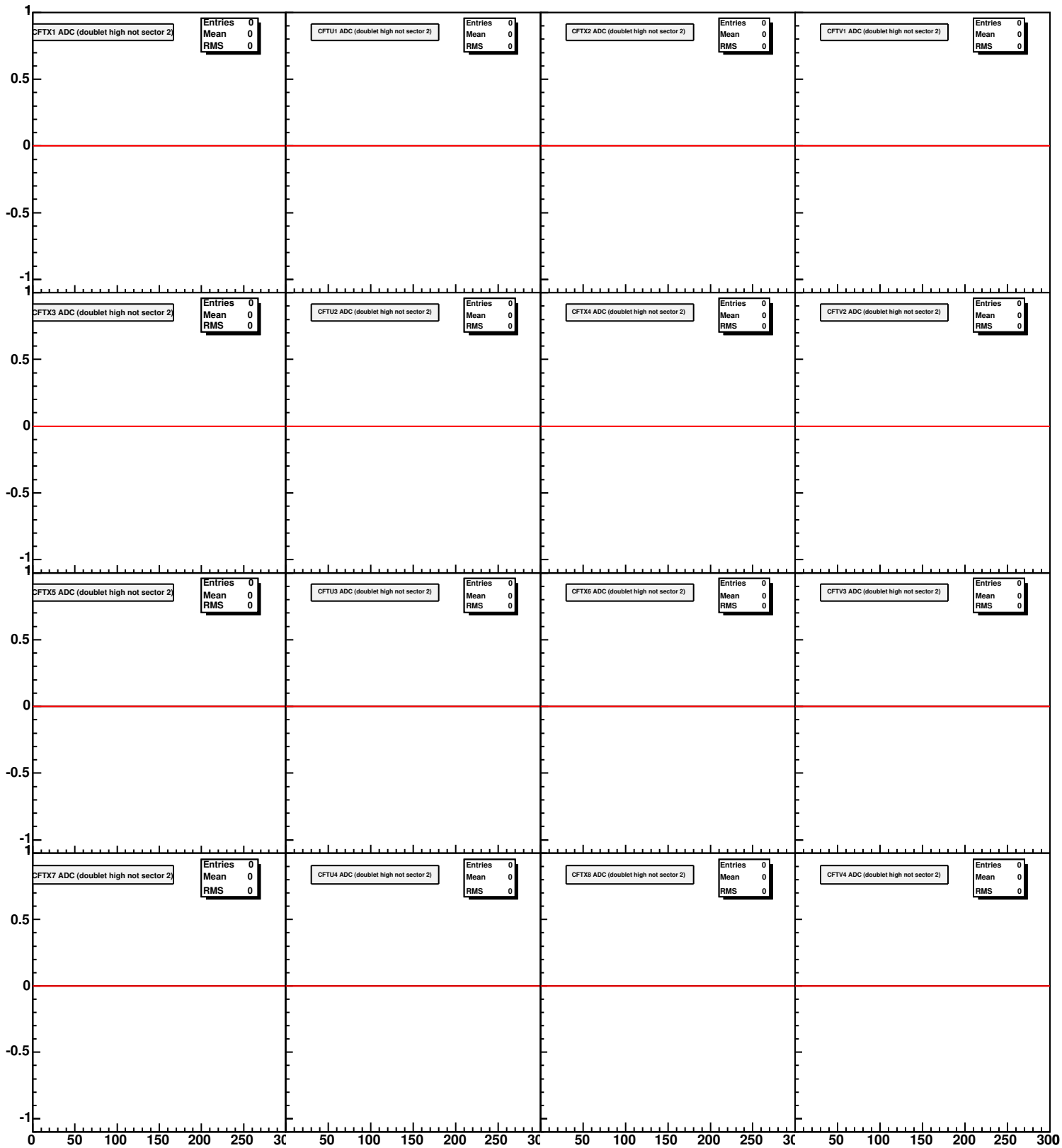
CFT ADC (doublet low sector 2) (Clusters on muons)



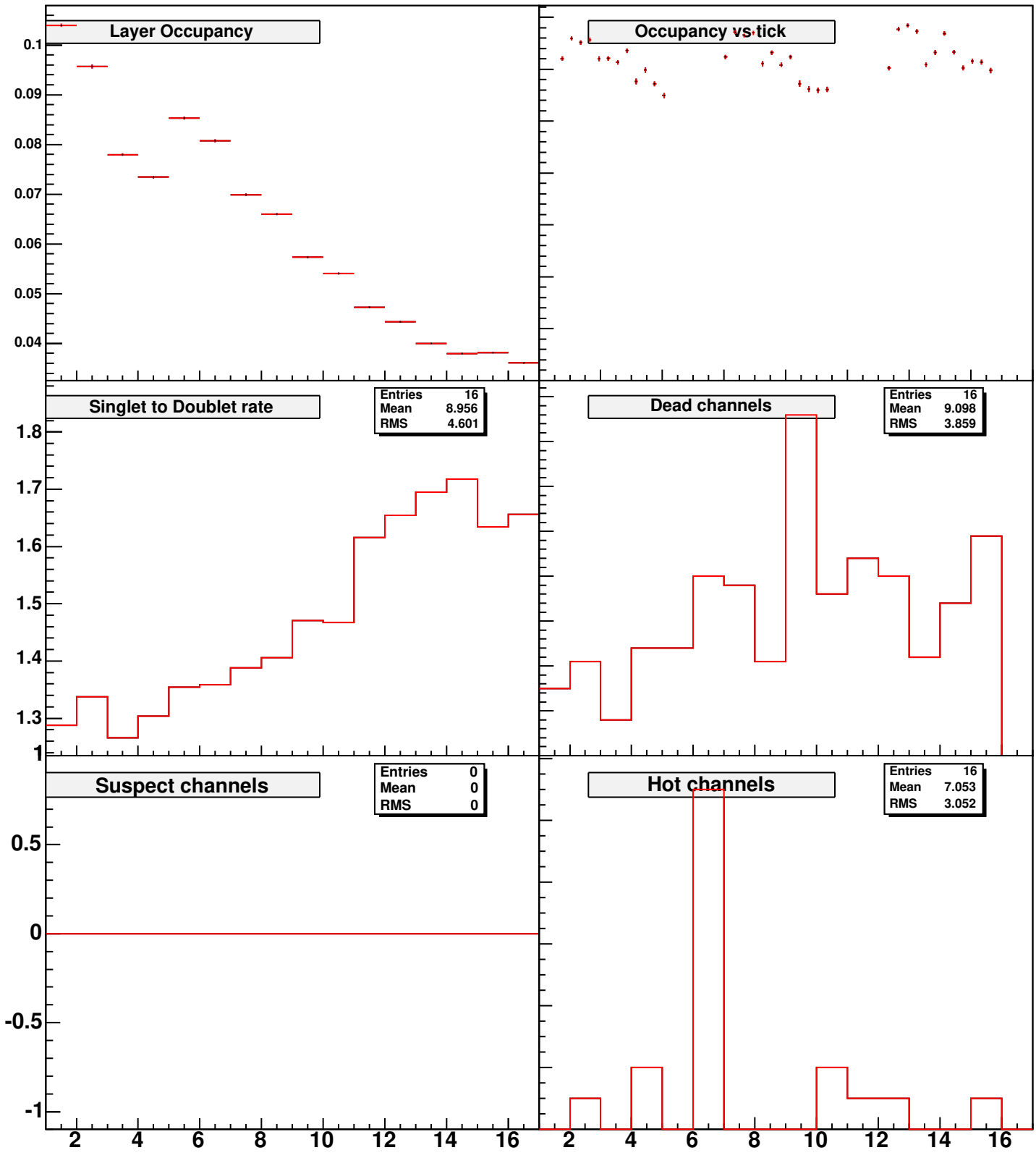
CFT ADC (doublet low not sector 2) (Clusters on muons)



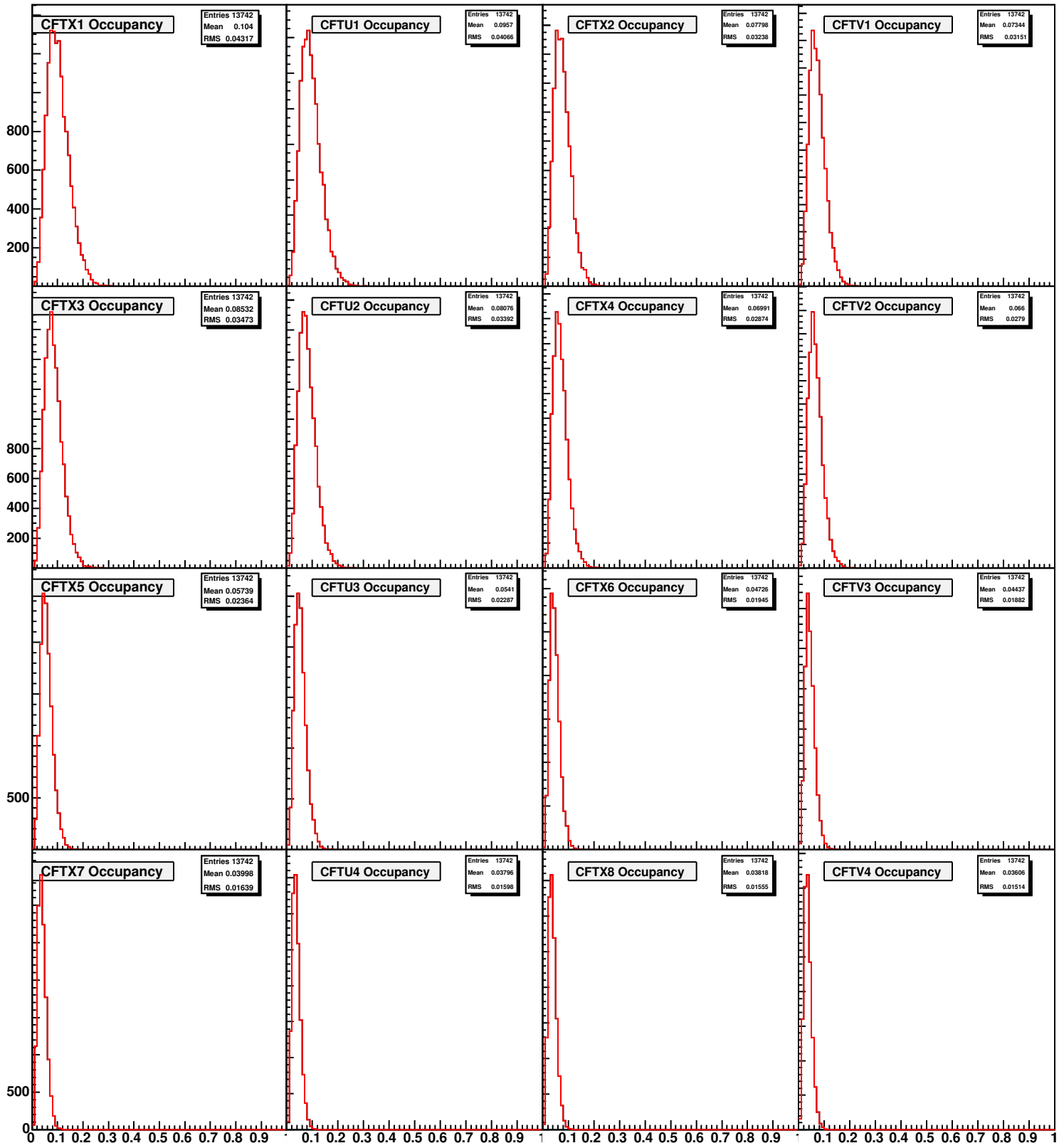
CFT ADC (doublet high sector 2) (Clusters on muons)



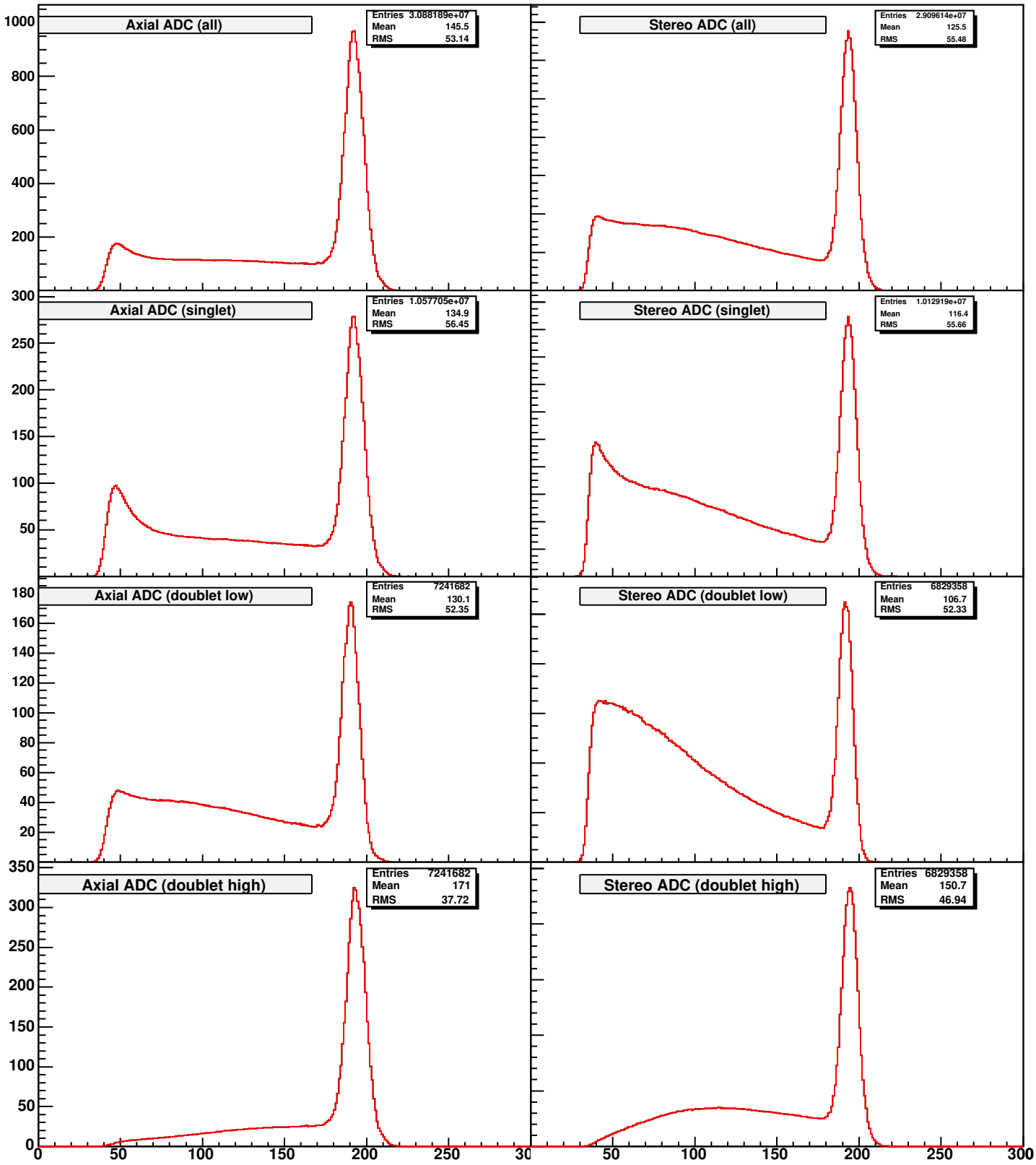
CFT ADC (doublet high not sector 2) (Clusters on muons)



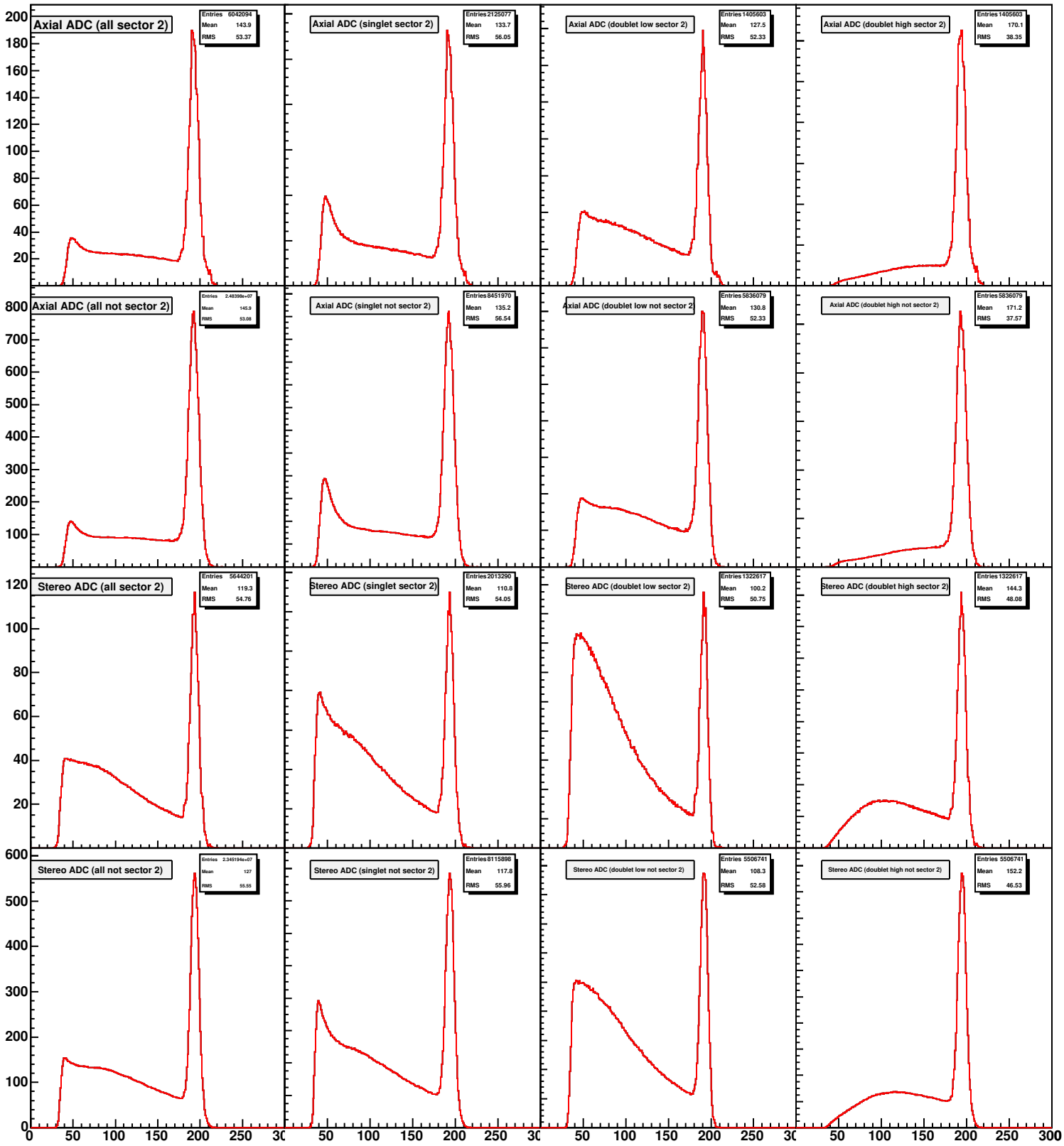
CFT Summary (Clusters not on tracks)



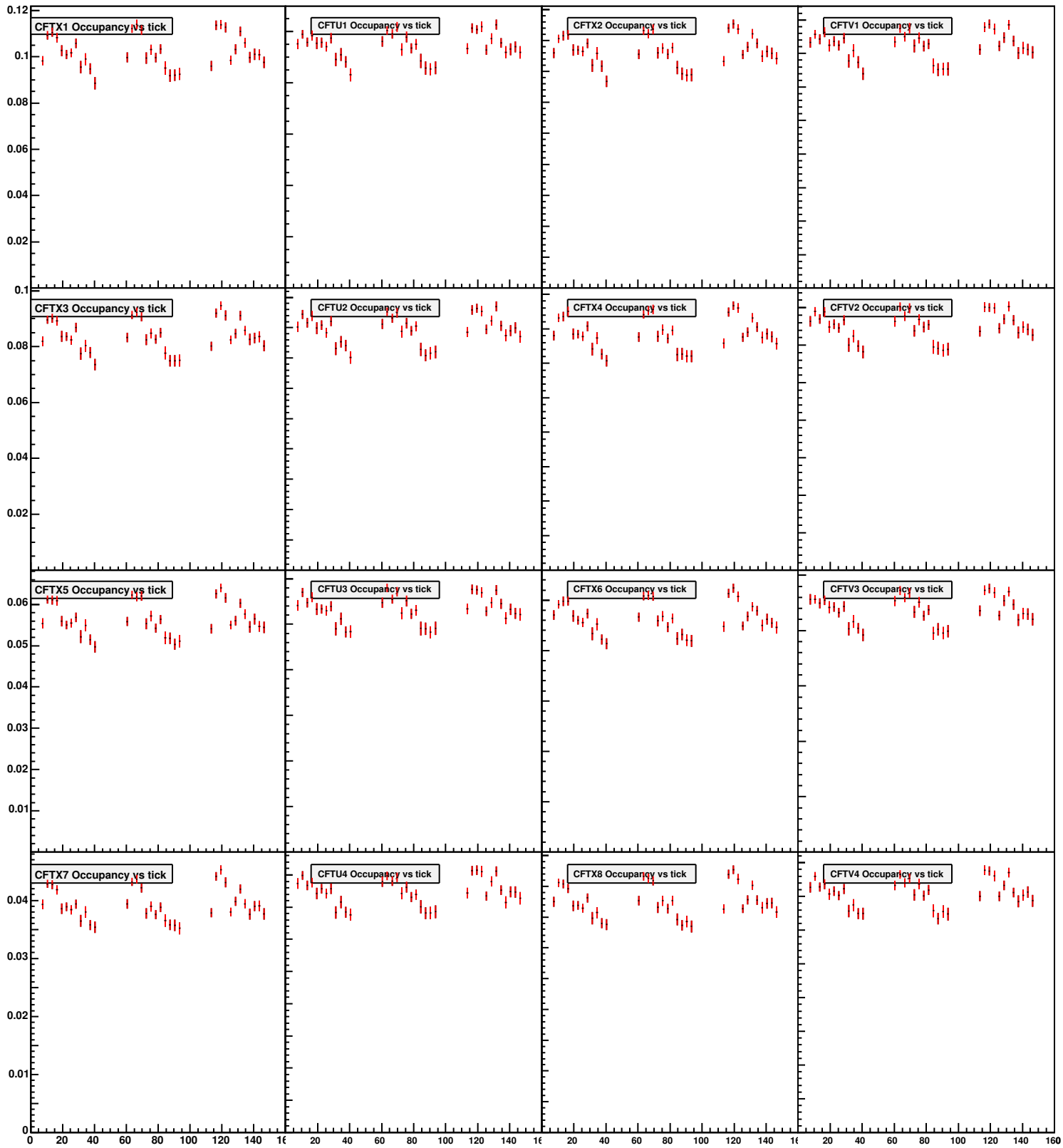
CFT Occupancy (Clusters not on tracks)



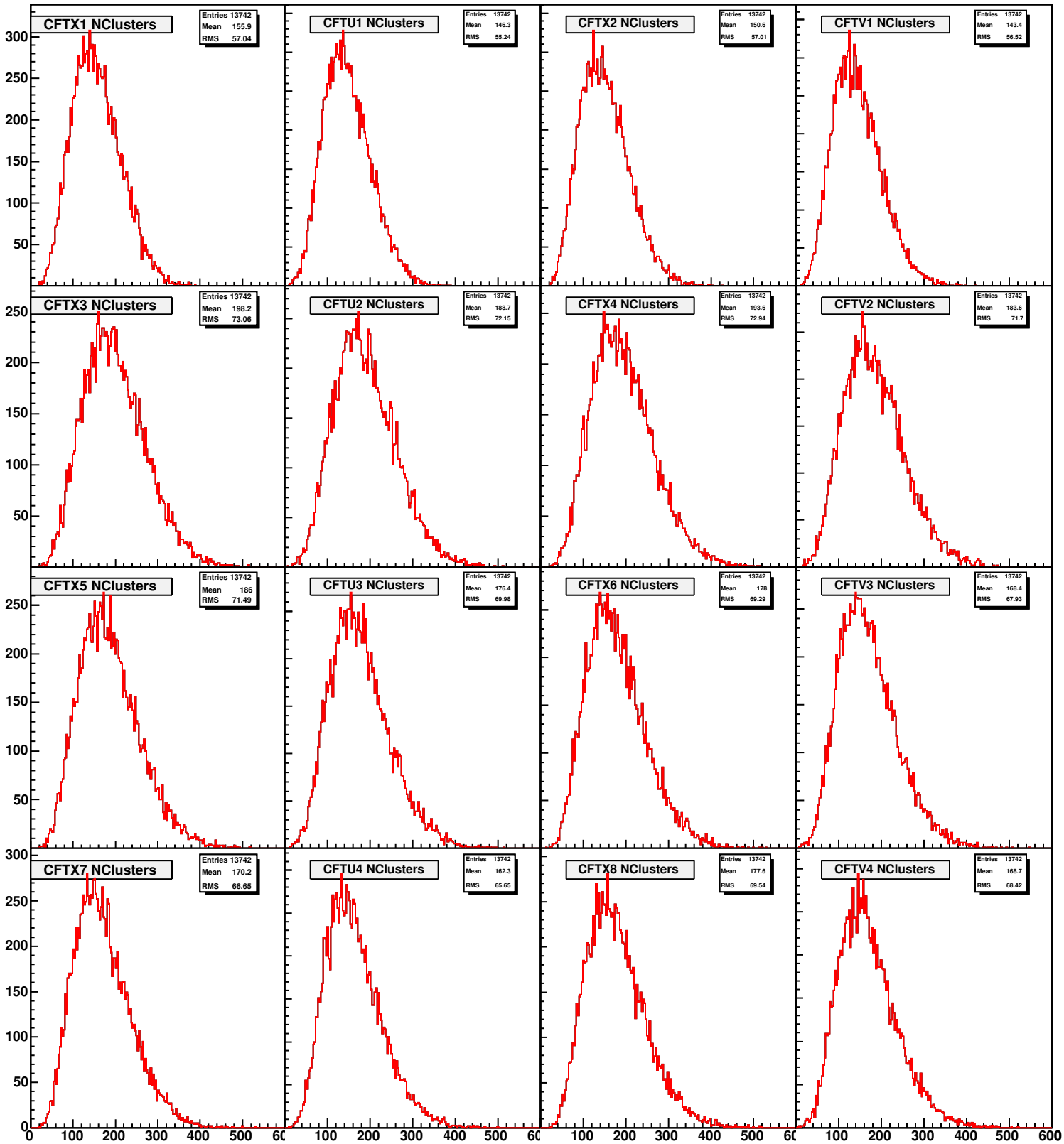
CFT ADC Summary (Clusters not on tracks)



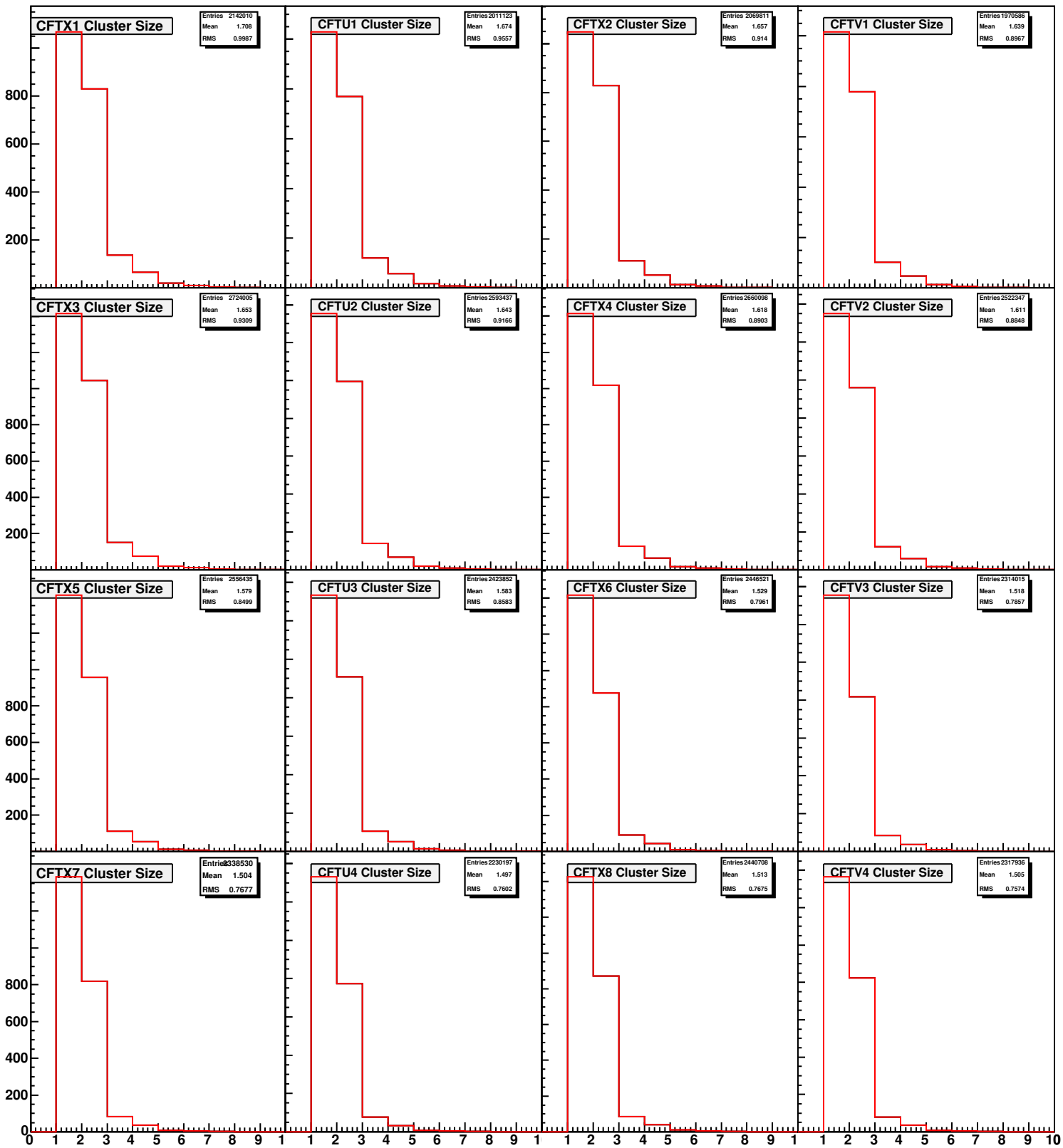
CFT ADC Summary By Sector (Clusters not on tracks)



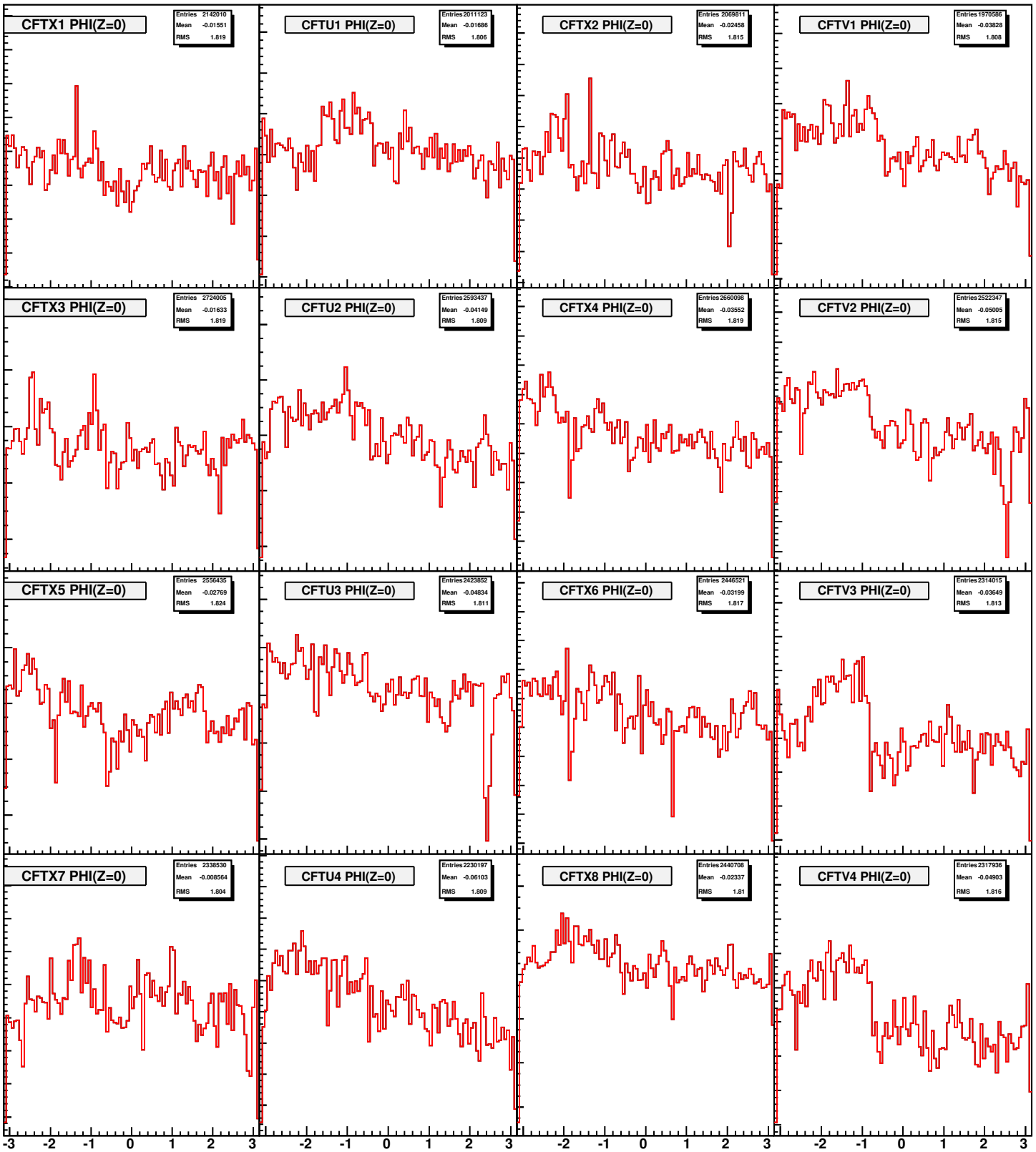
CFT Occupancy vs Tick (Clusters not on tracks)



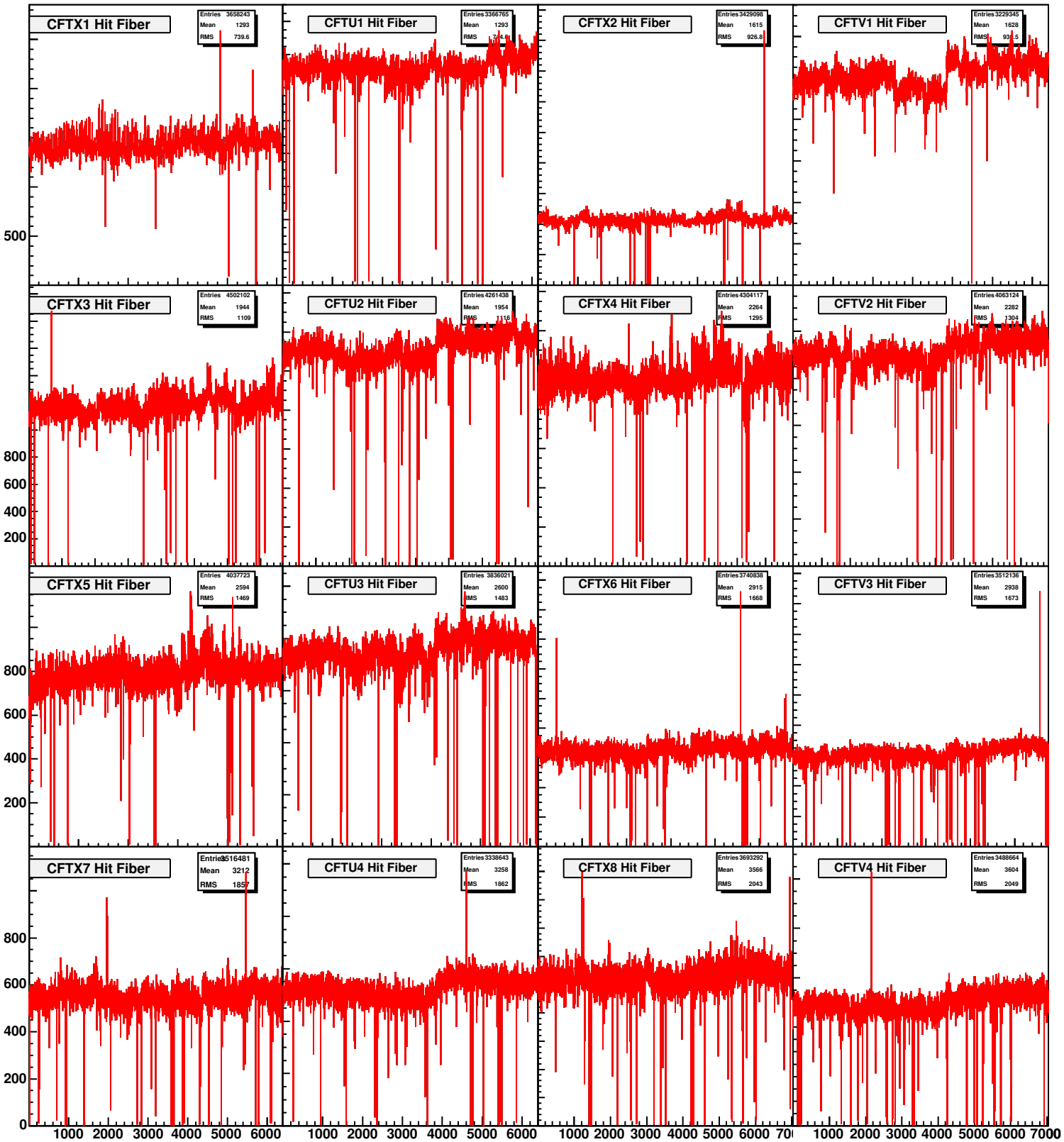
CFT NClusters (Clusters not on tracks)



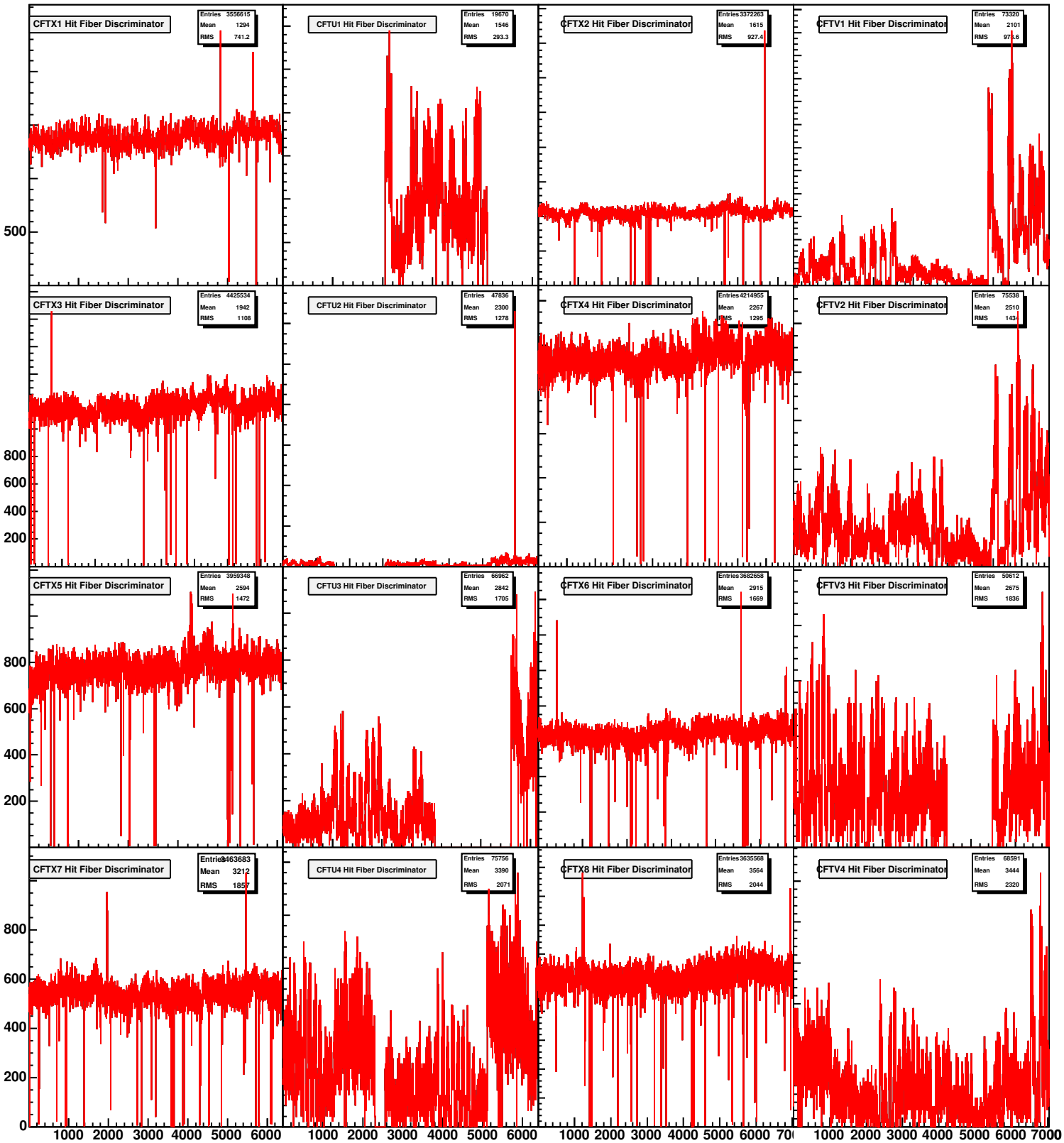
CFT Cluster Size (Clusters not on tracks)



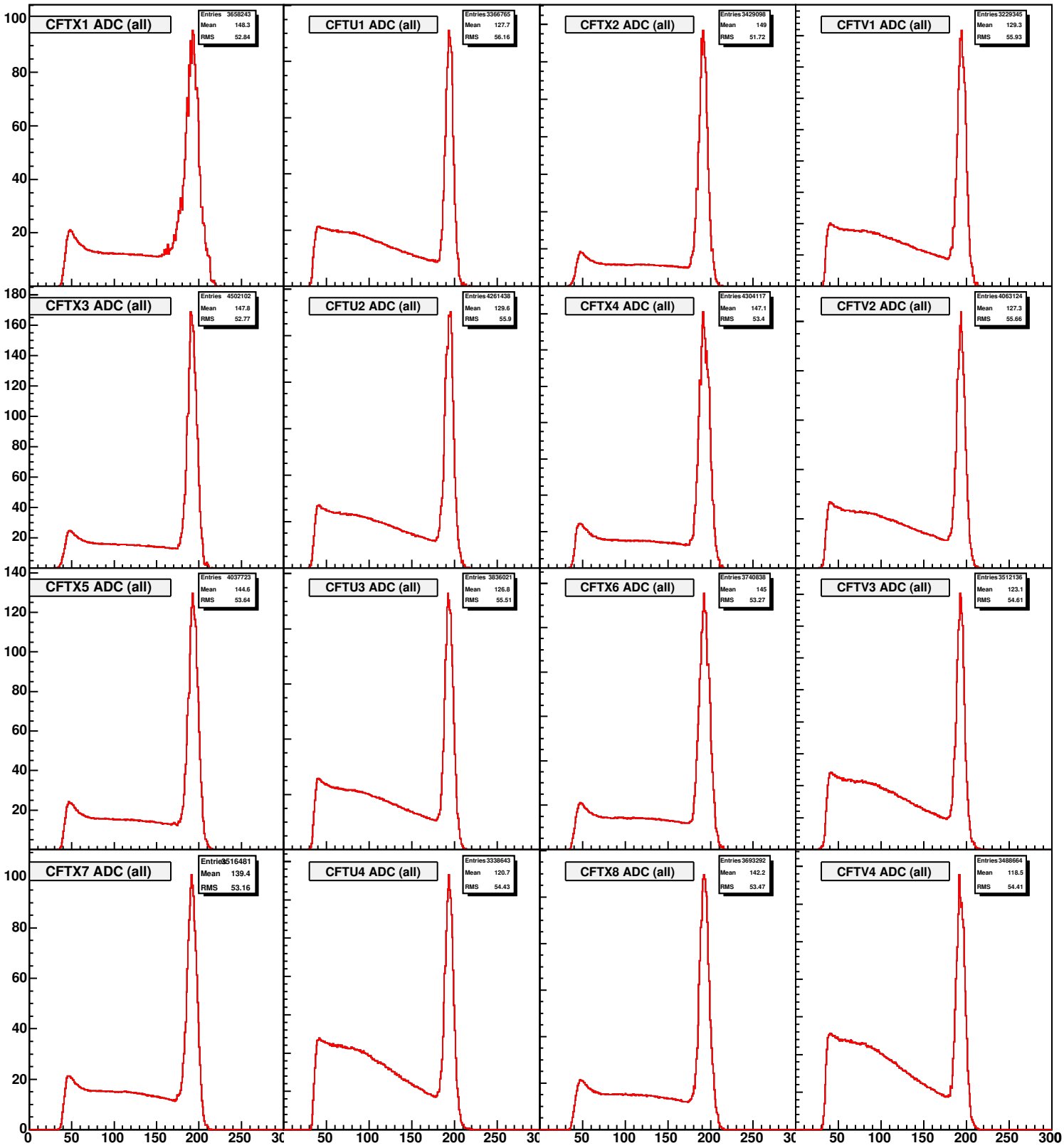
CFT PHI(Z=0) (Clusters not on tracks)



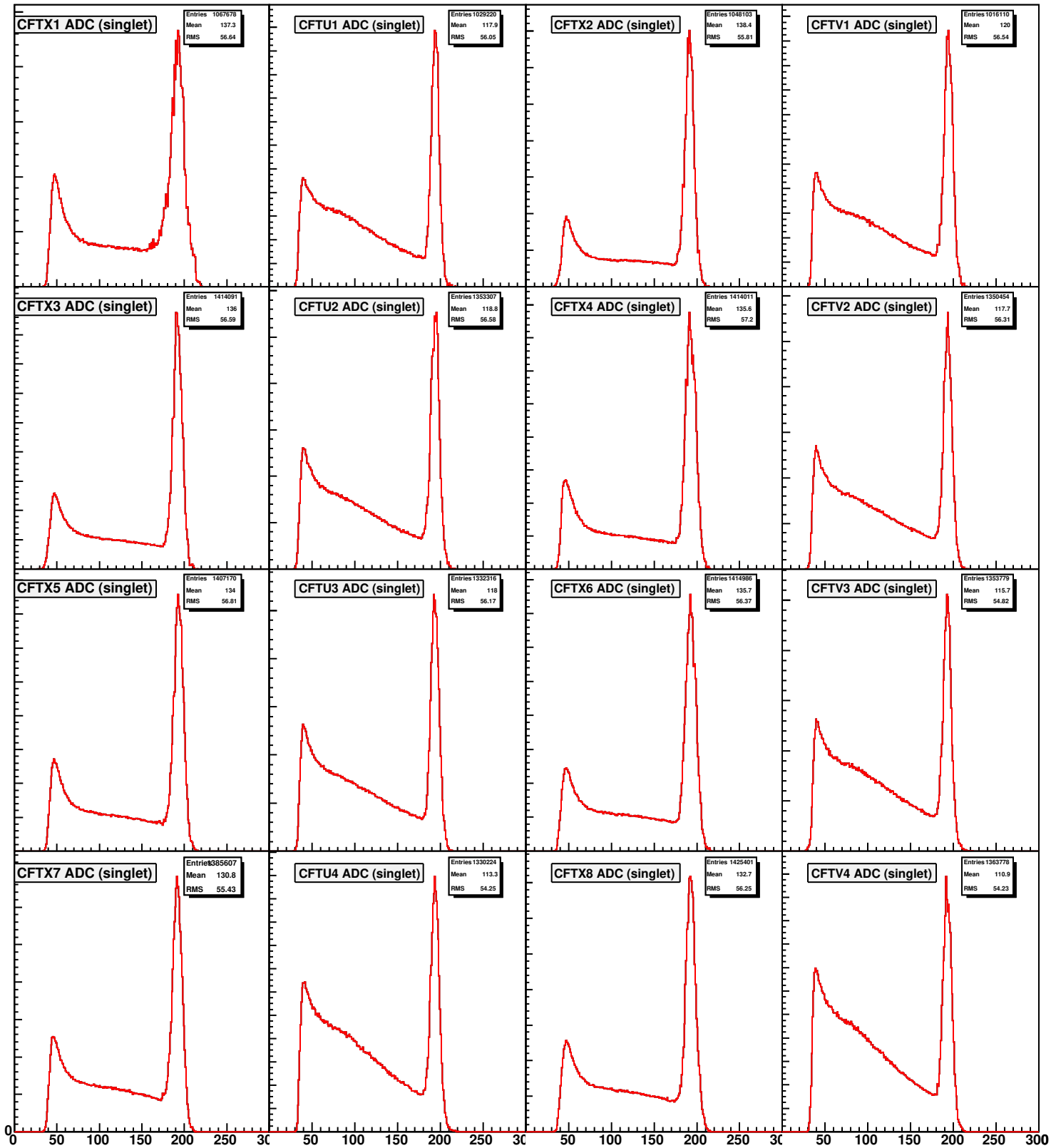
CFT Hit Fiber (Clusters not on tracks)



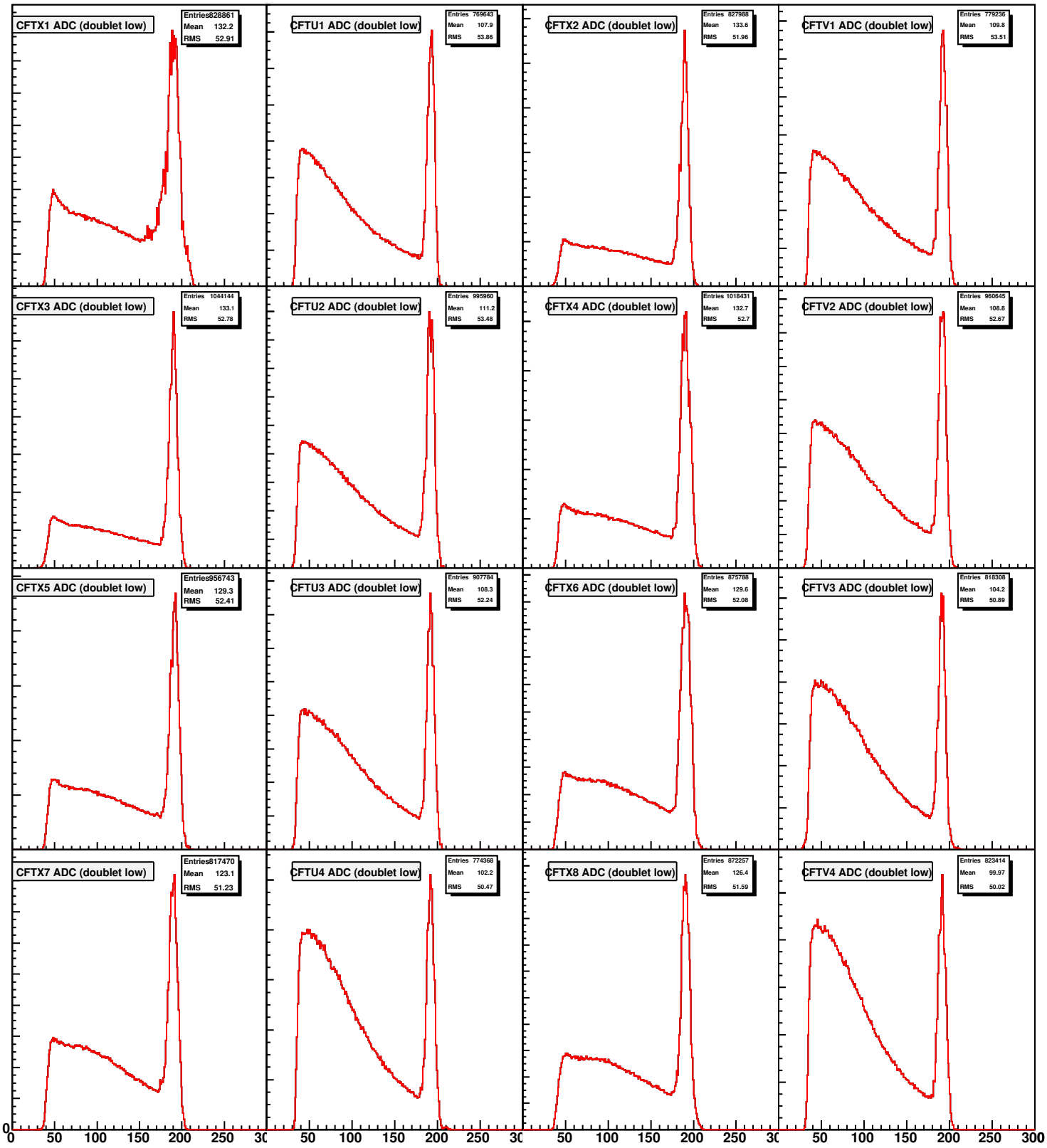
CFT Hit Fiber Discriminator (Clusters not on tracks)



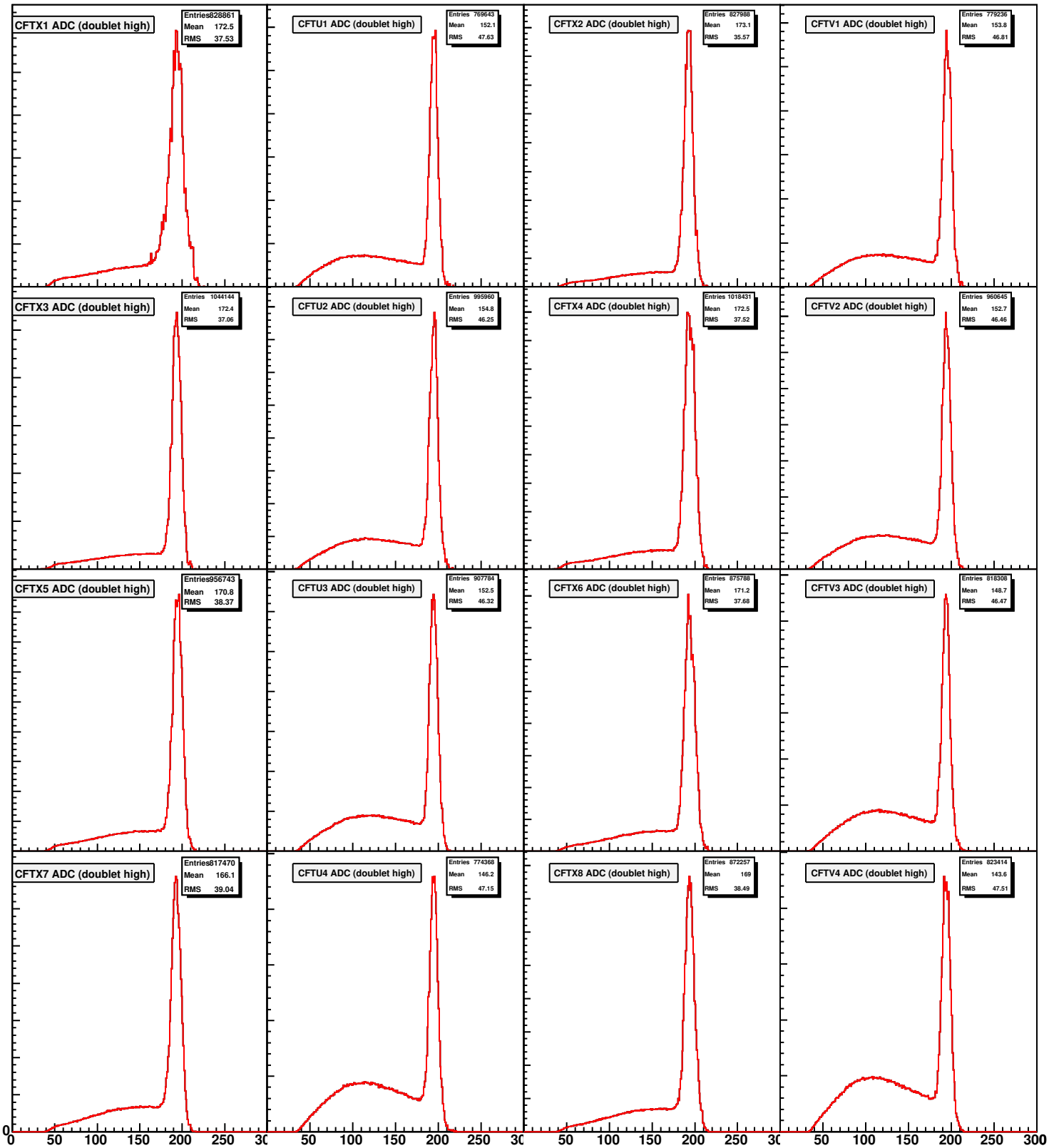
CFT ADC (all) (Clusters not on tracks)



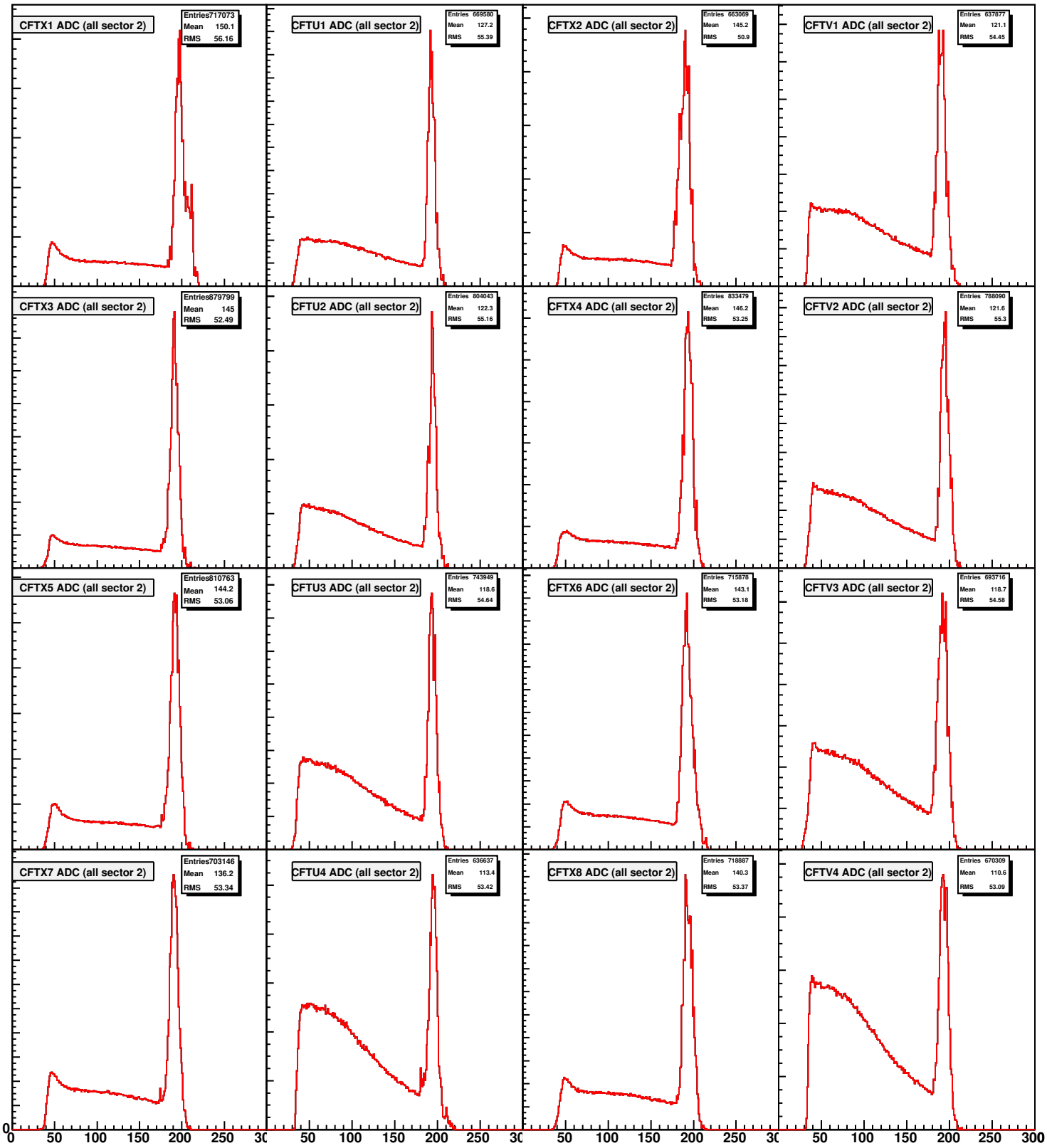
CFT ADC (singlet) (Clusters not on tracks)



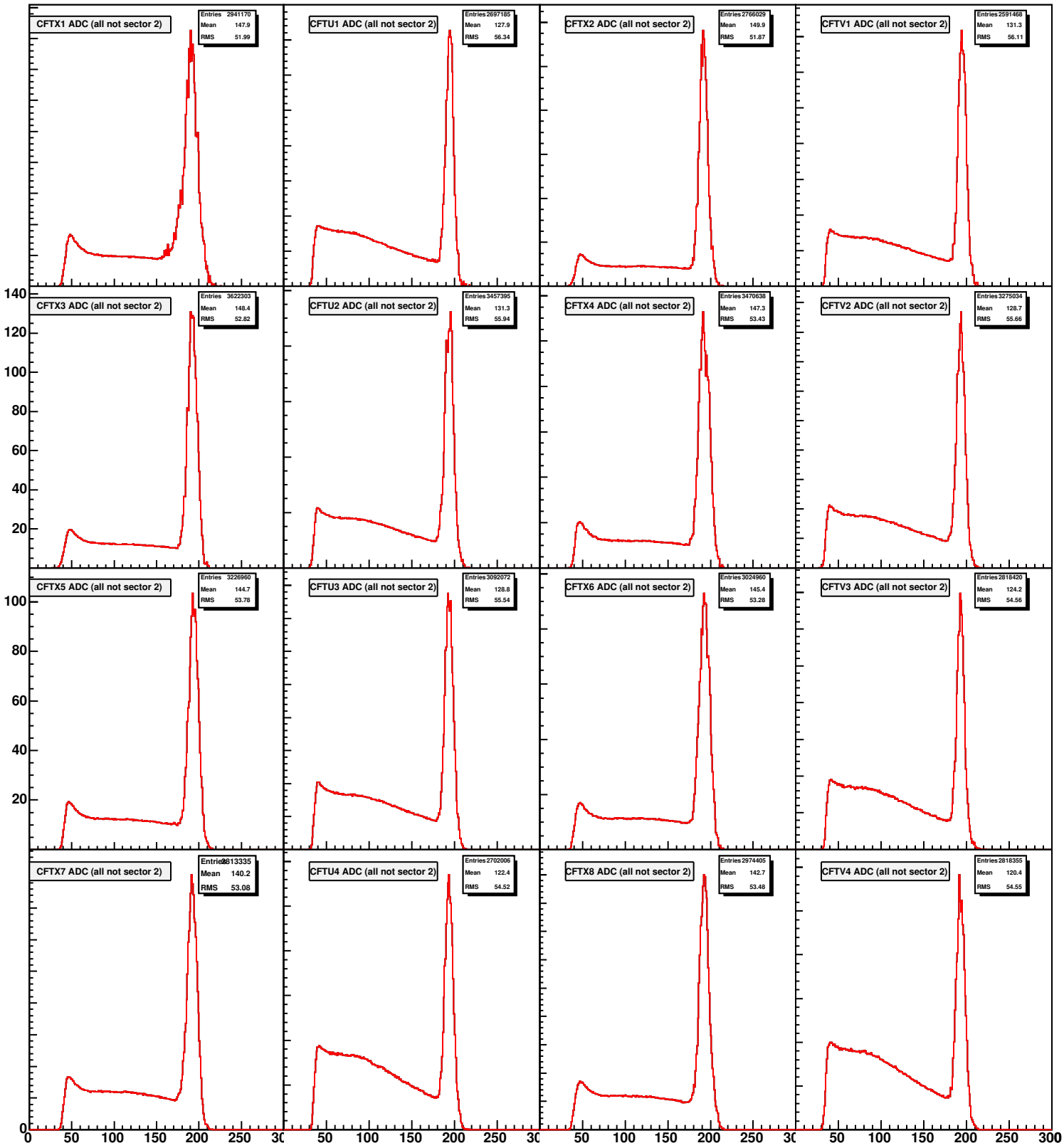
CFT ADC (doublet low) (Clusters not on tracks)



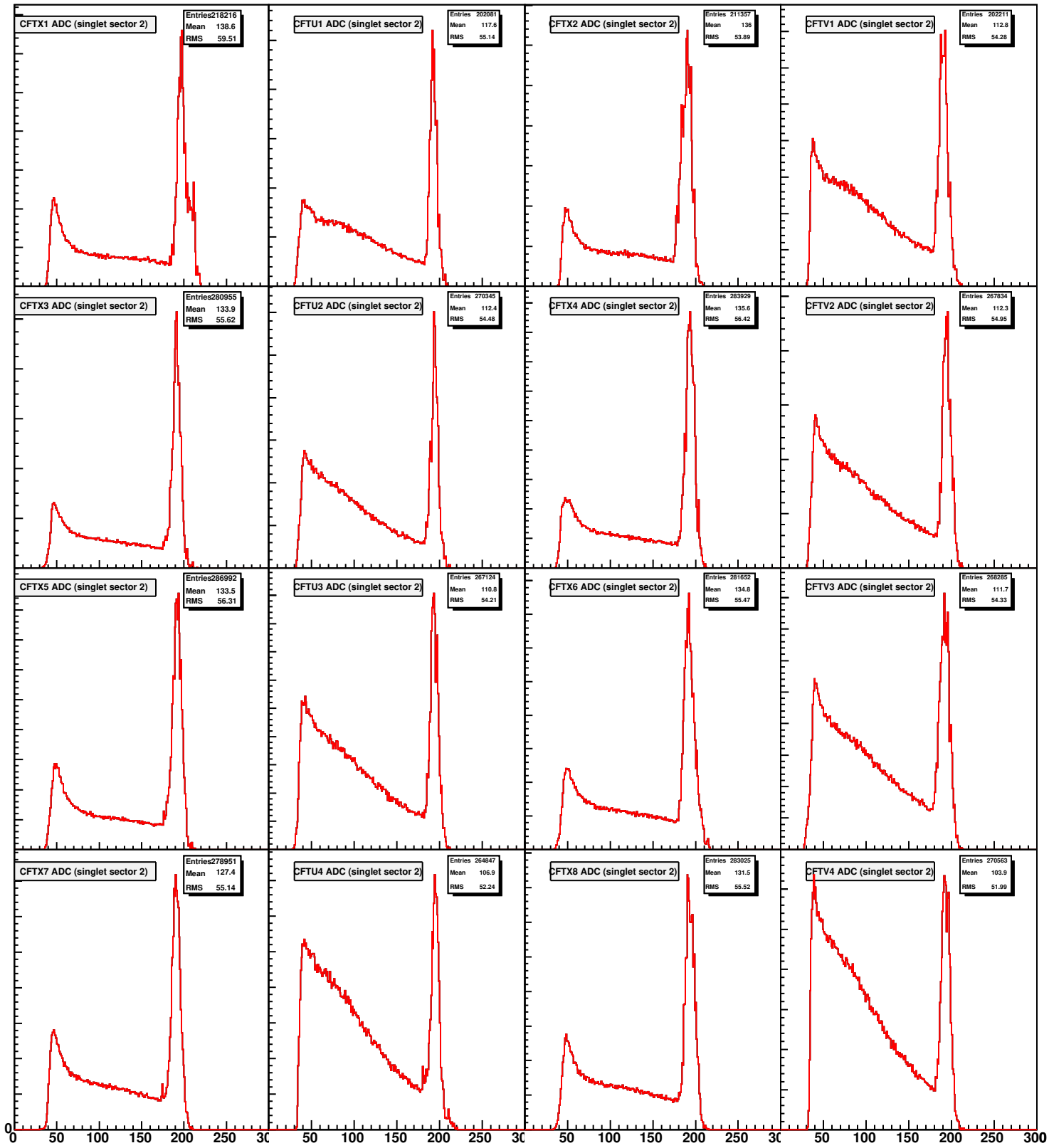
CFT ADC (doublet high) (Clusters not on tracks)



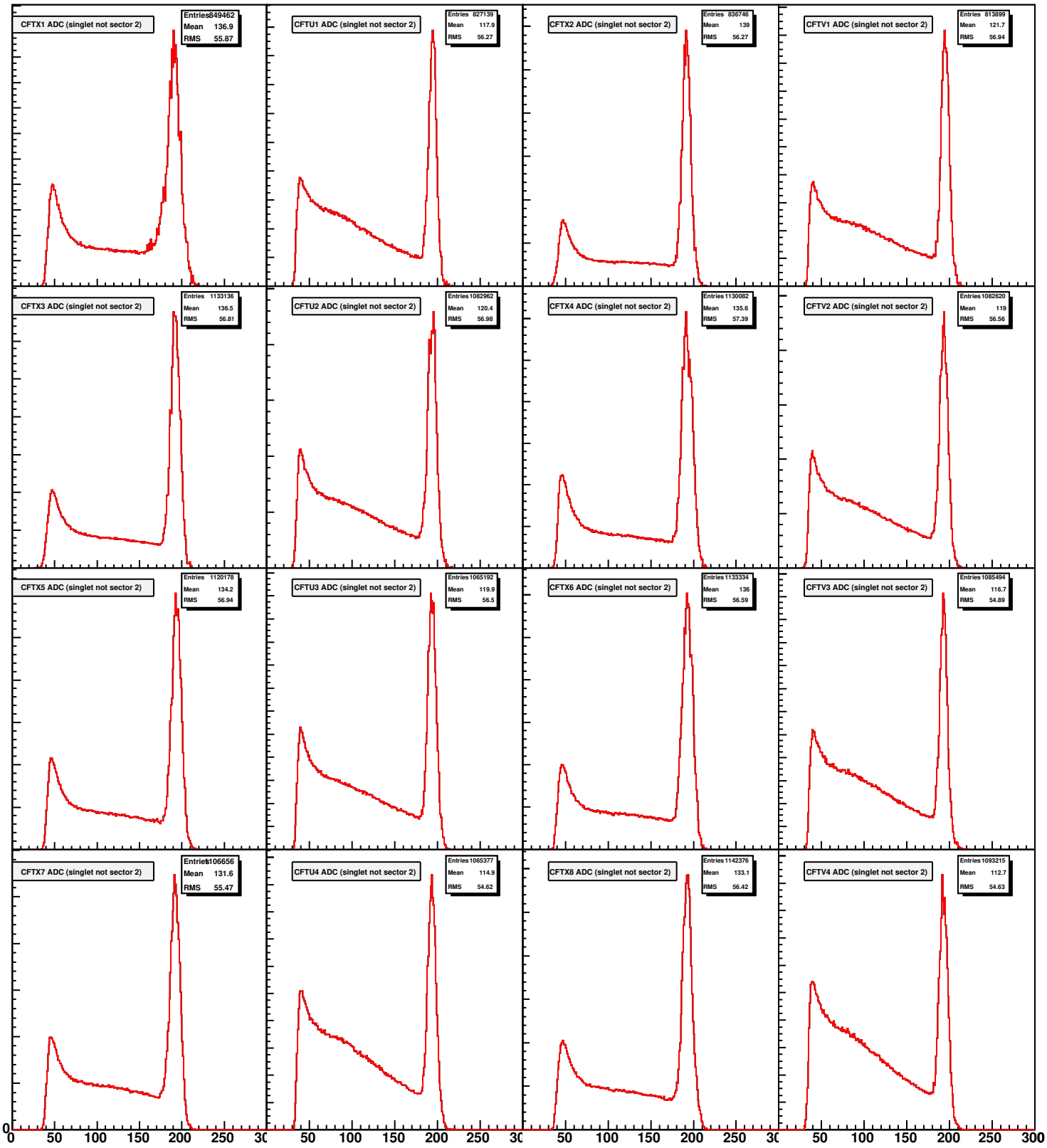
CFT ADC (all sector 2) (Clusters not on tracks)



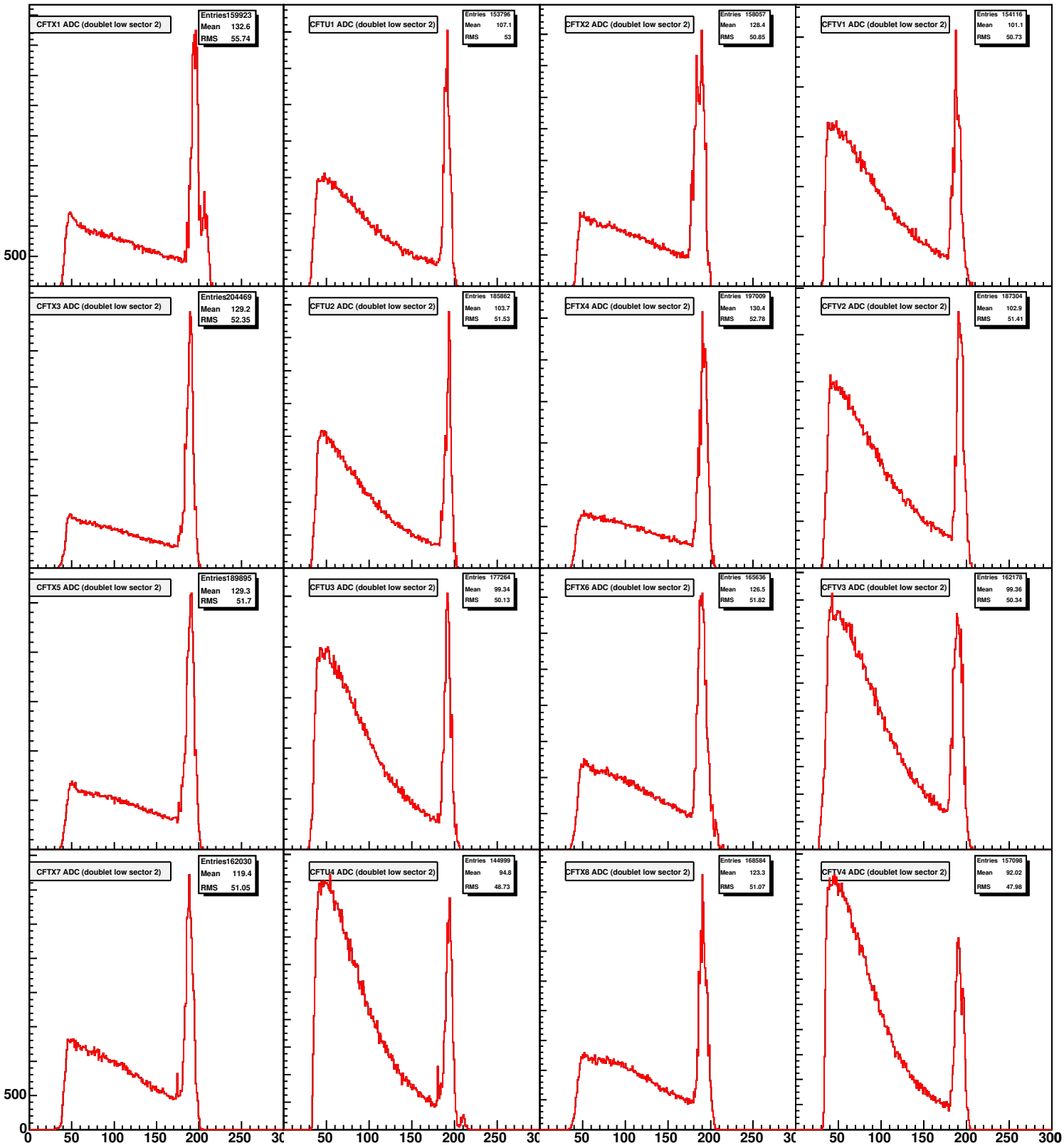
CFT ADC (all not sector 2) (Clusters not on tracks)



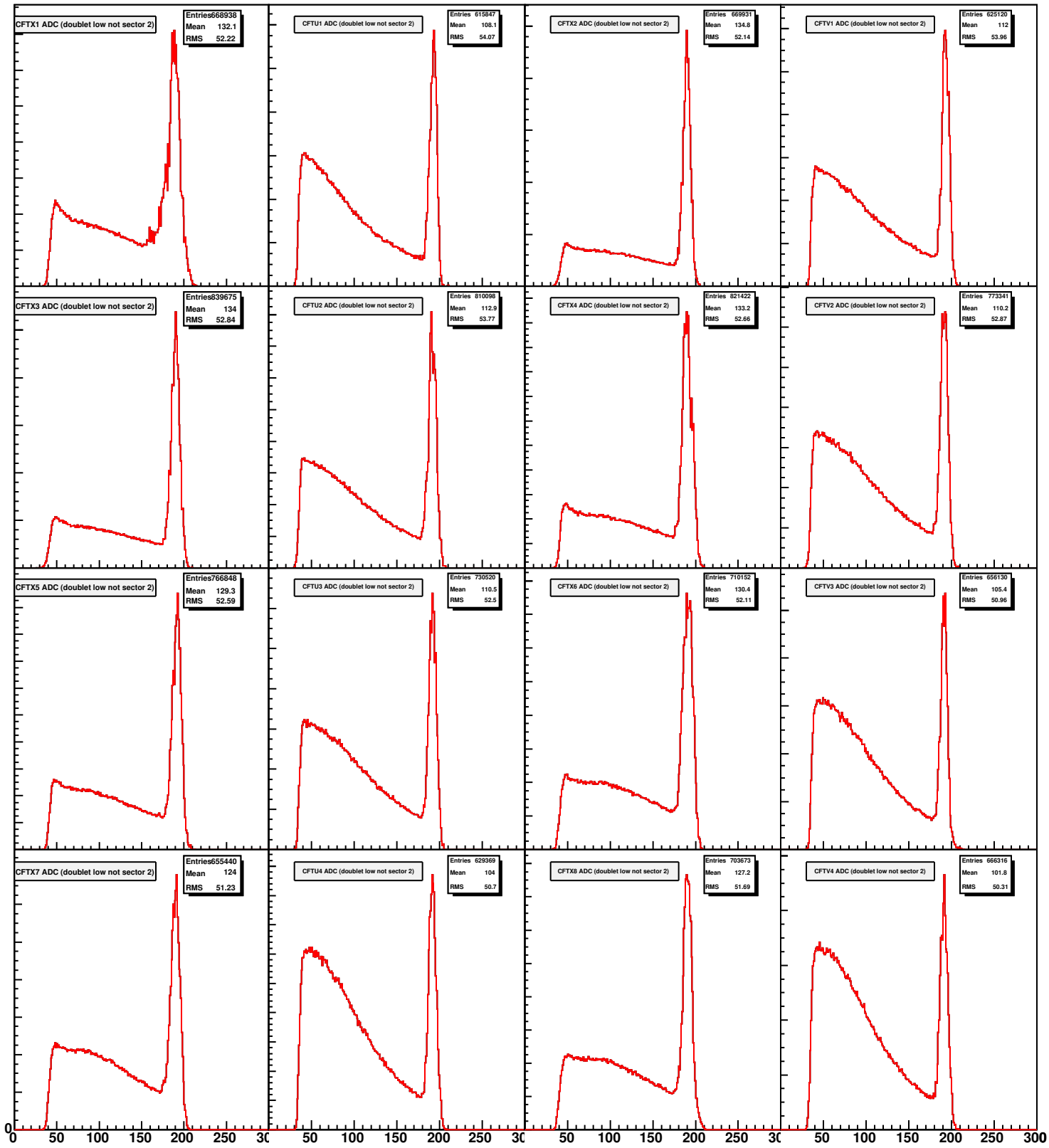
CFT ADC (singlet sector 2) (Clusters not on tracks)



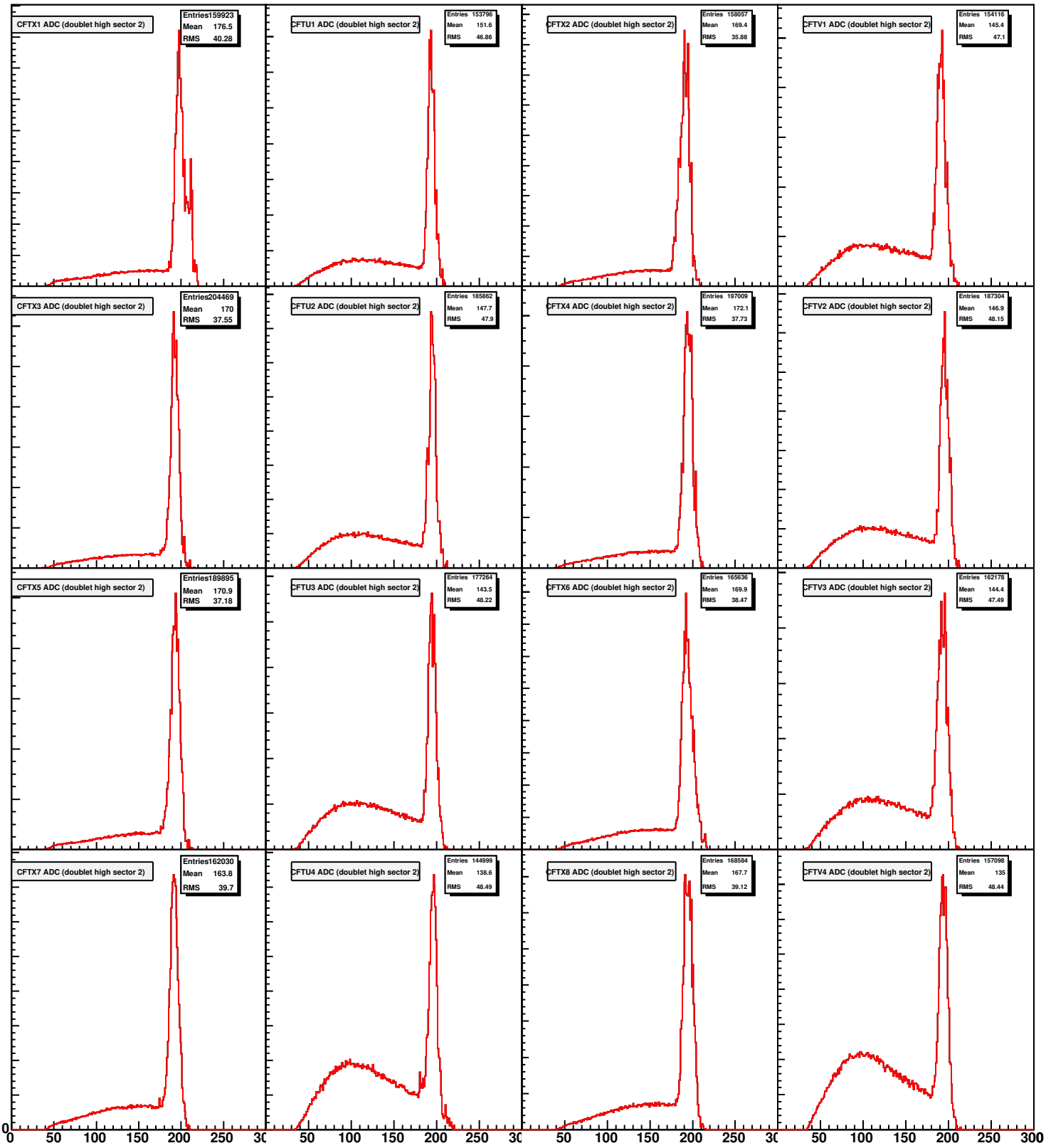
CFT ADC (singlet not sector 2) (Clusters not on tracks)



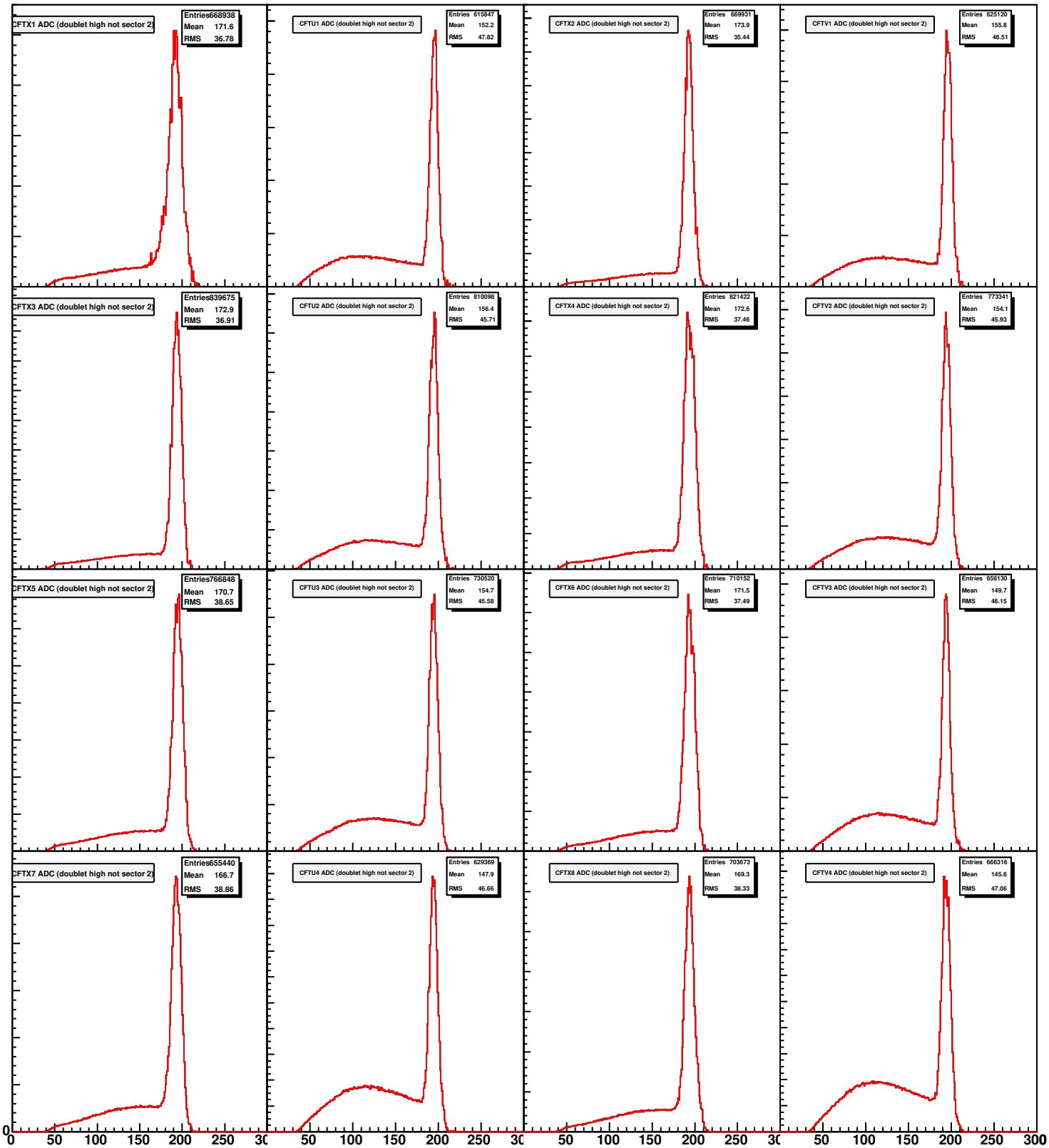
CFT ADC (doublet low sector 2) (Clusters not on tracks)



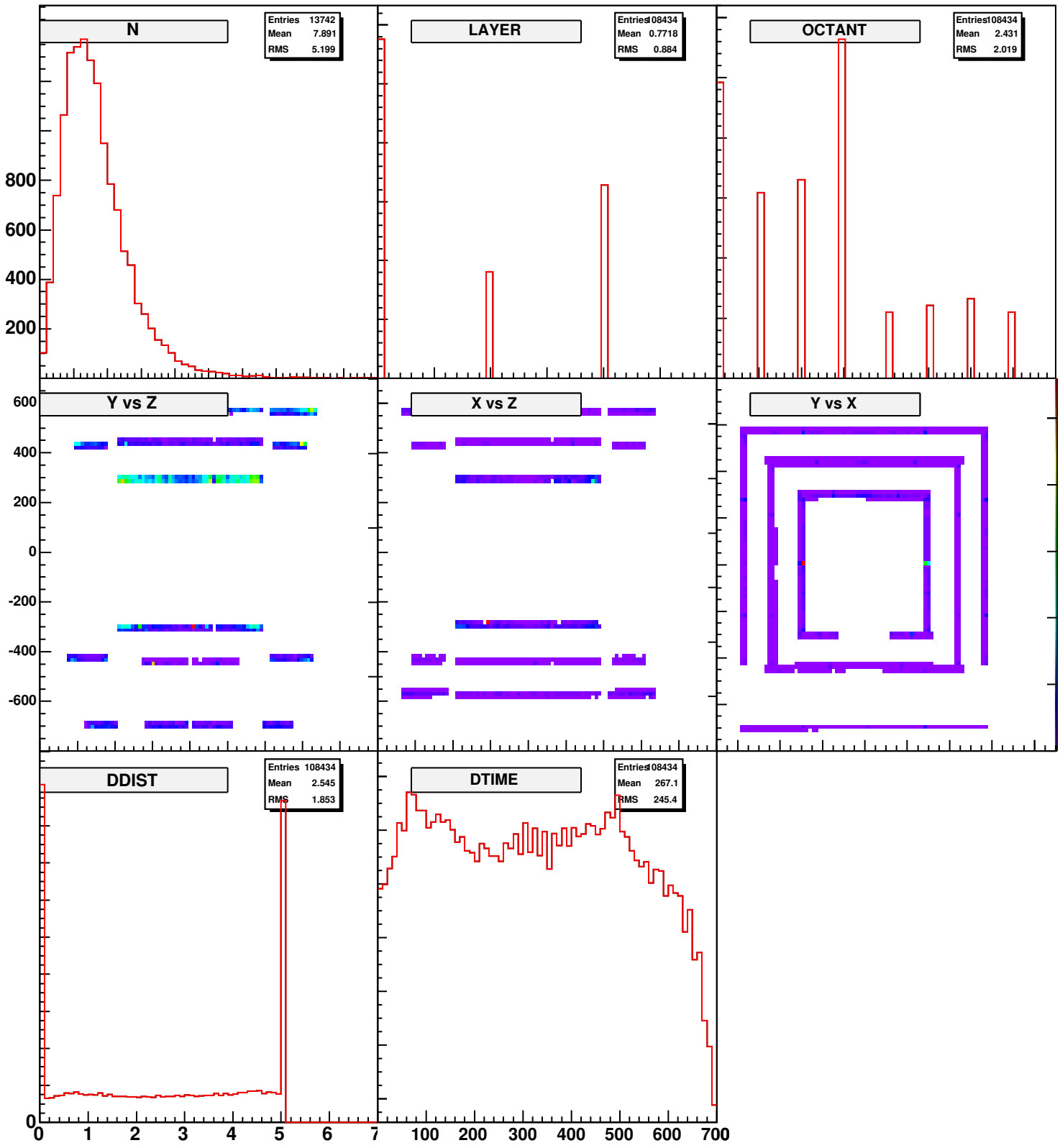
CFT ADC (doublet low not sector 2) (Clusters not on tracks)



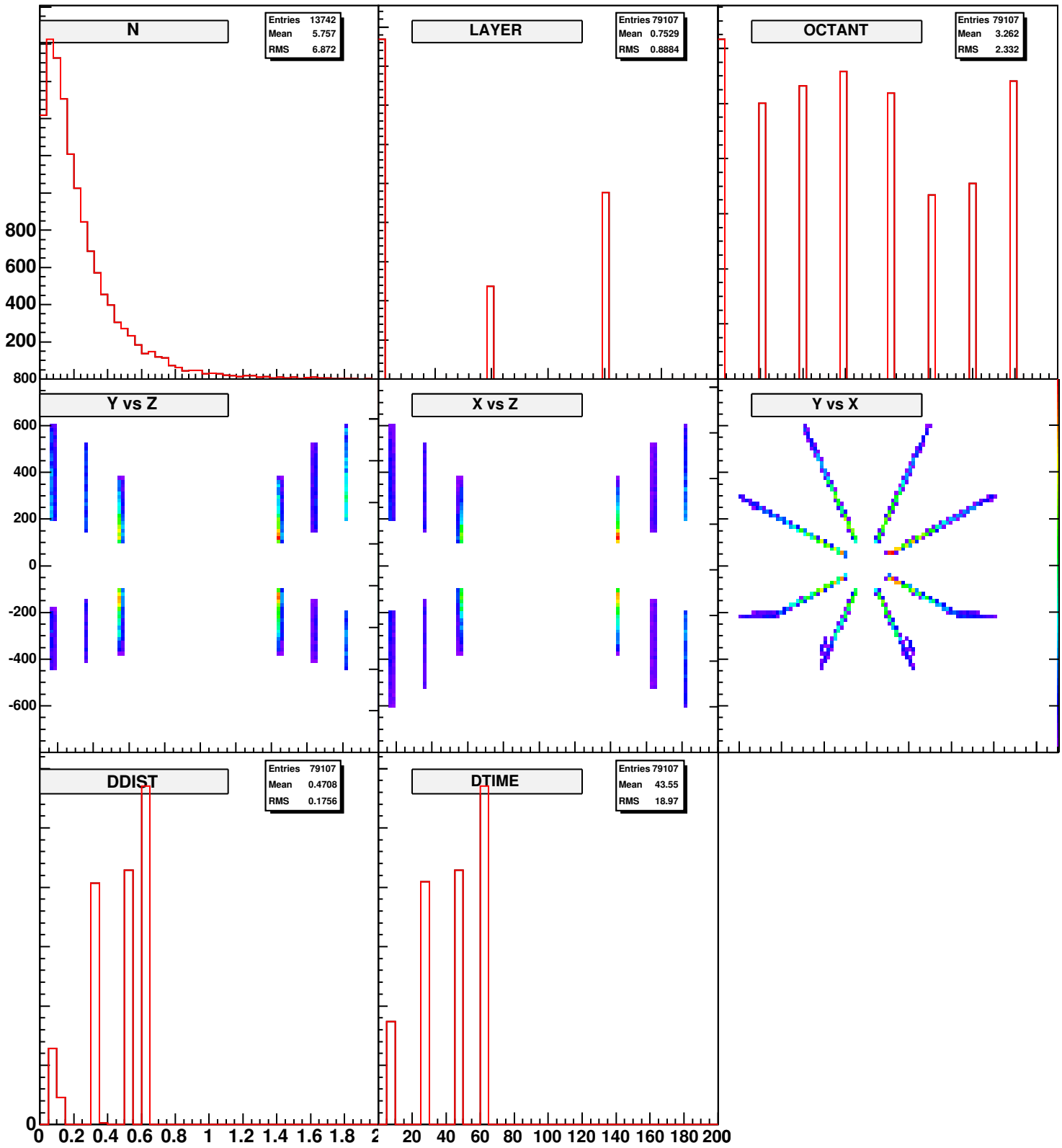
CFT ADC (doublet high sector 2) (Clusters not on tracks)



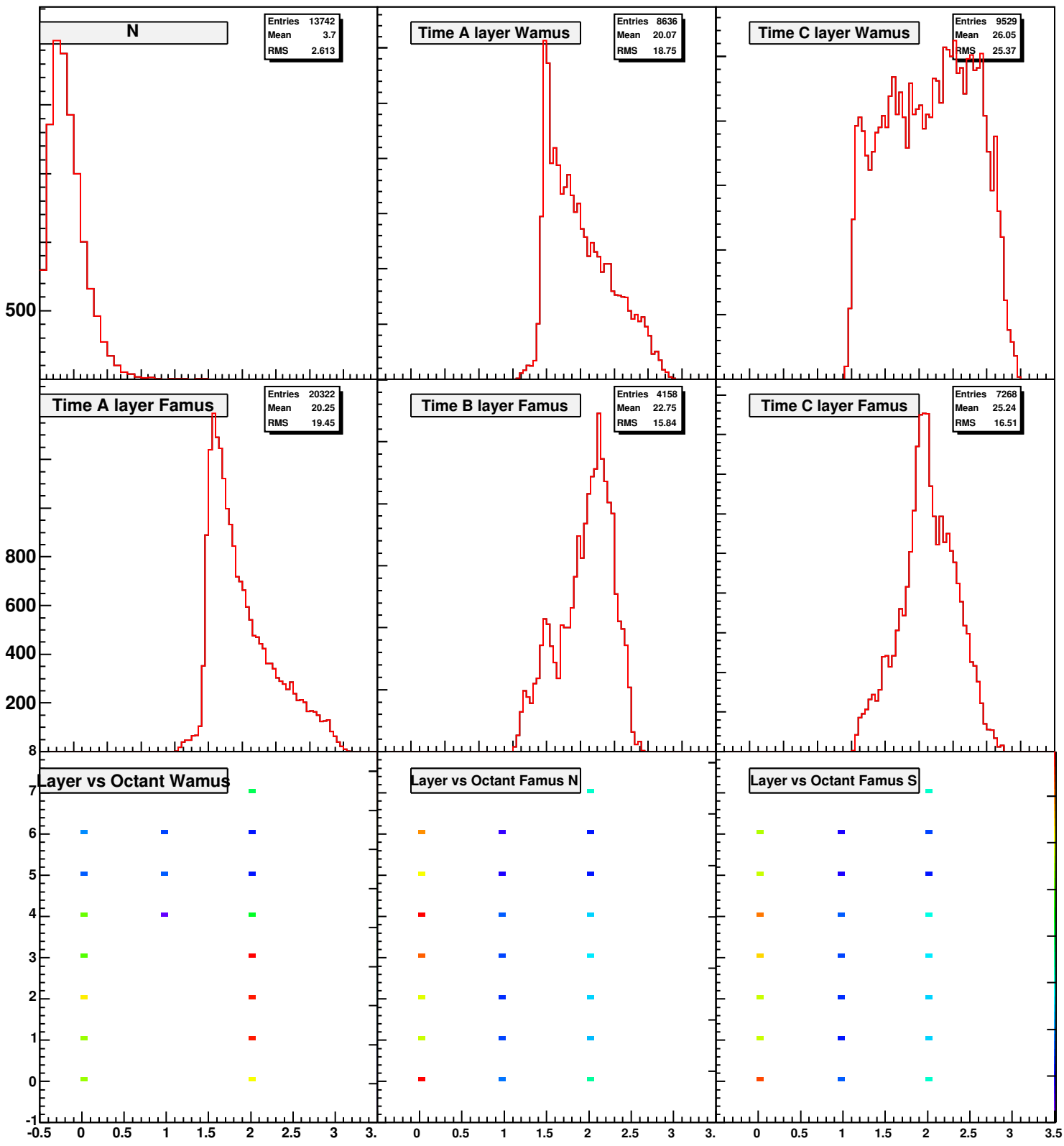
CFT ADC (doublet high not sector 2) (Clusters not on tracks)


N
Entries 13742
Mean 7.891
RMS 5.199
LAYER
Entries 108434
Mean 0.7718
RMS 0.884
OCTANT
Entries 108434
Mean 2.431
RMS 2.019
Y vs Z
X vs Z
Y vs X
DDIST
Entries 108434
Mean 2.545
RMS 1.853
DTIME
Entries 108434
Mean 267.1
RMS 245.4

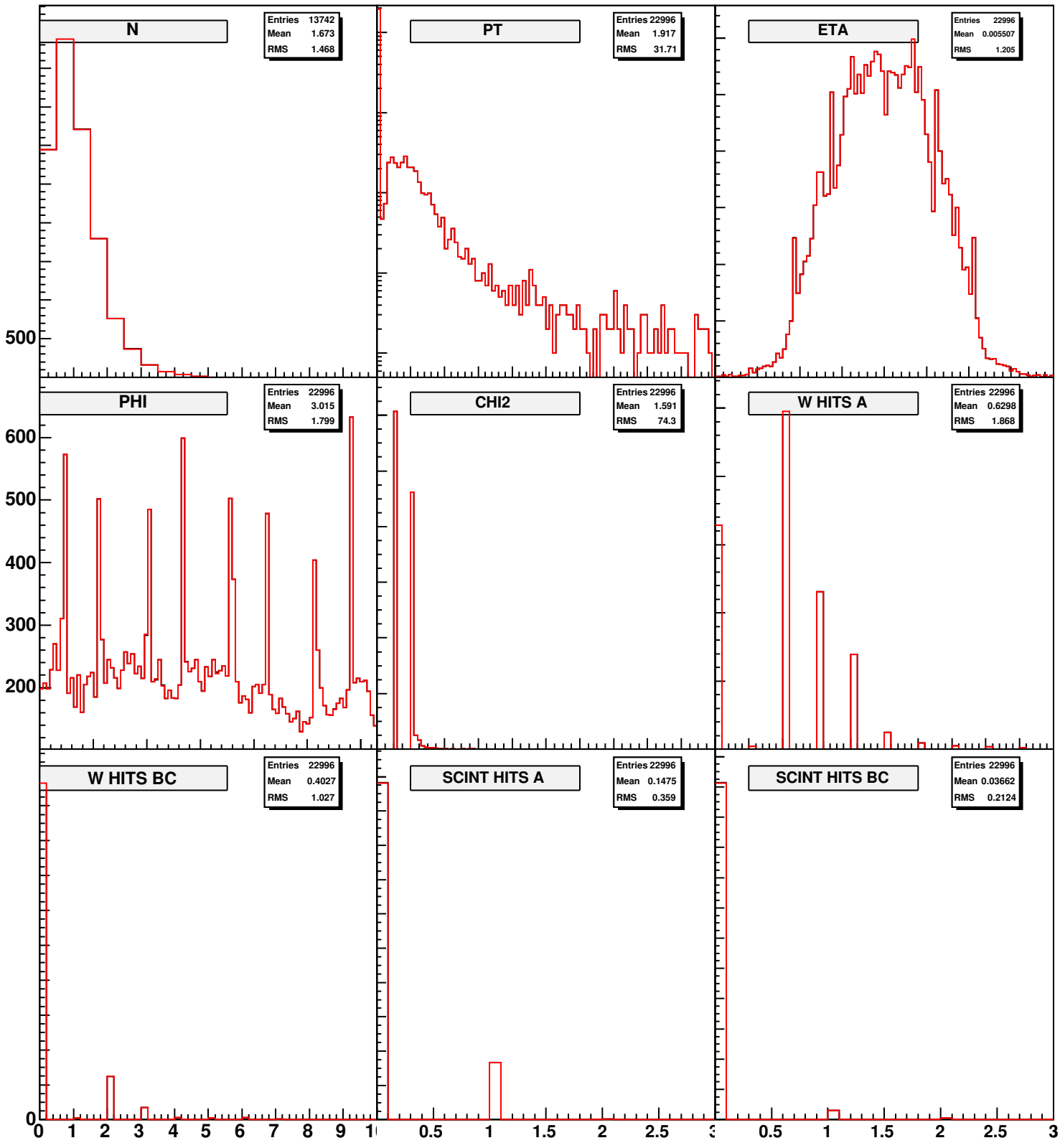
MuonPDT (All)


N
Entries 13742
Mean 5.757
RMS 6.872
LAYER
Entries 79107
Mean 0.7529
RMS 0.8884
OCTANT
Entries 79107
Mean 3.262
RMS 2.332
Y vs Z
X vs Z
Y vs X
DDIST
Entries 79107
Mean 0.4708
RMS 0.1756
DTIME
Entries 79107
Mean 43.55
RMS 18.97
800
600
400
200
800
600
400
200
0
-200
-400
-600
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

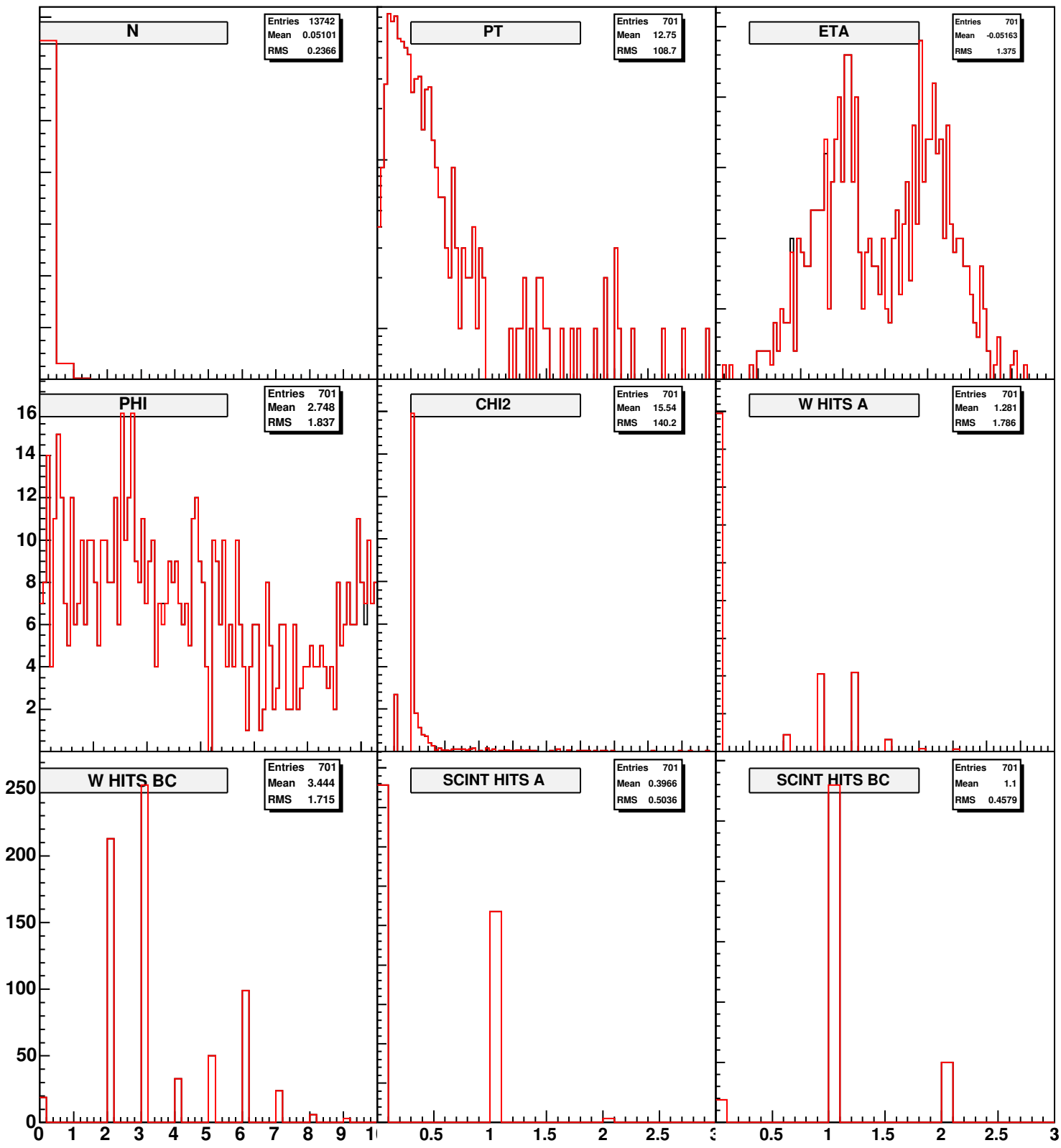
MuonMDT (All)


N
Entries 13742
Mean 3.7
RMS 2.613
Time A layer Wamus
Entries 8636
Mean 20.07
RMS 18.75
Time C layer Wamus
Entries 9529
Mean 26.05
RMS 25.37
Time A layer Famus
Entries 20322
Mean 20.25
RMS 19.45
Time B layer Famus
Entries 4158
Mean 22.75
RMS 15.84
Time C layer Famus
Entries 7268
Mean 25.24
RMS 16.51
Layer vs Octant Wamus
Layer vs Octant Famus N
Layer vs Octant Famus S

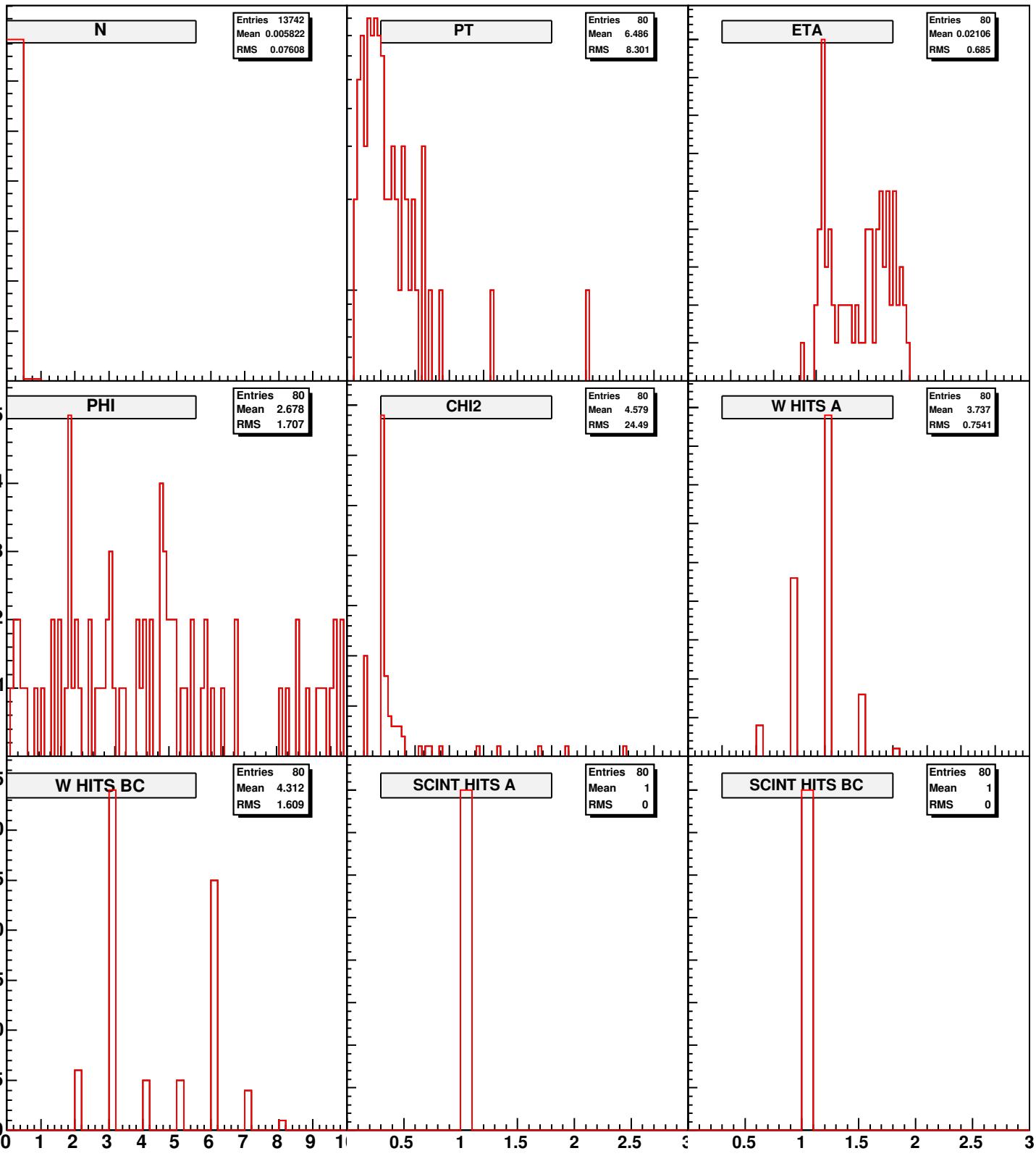
MuonMSC (All)



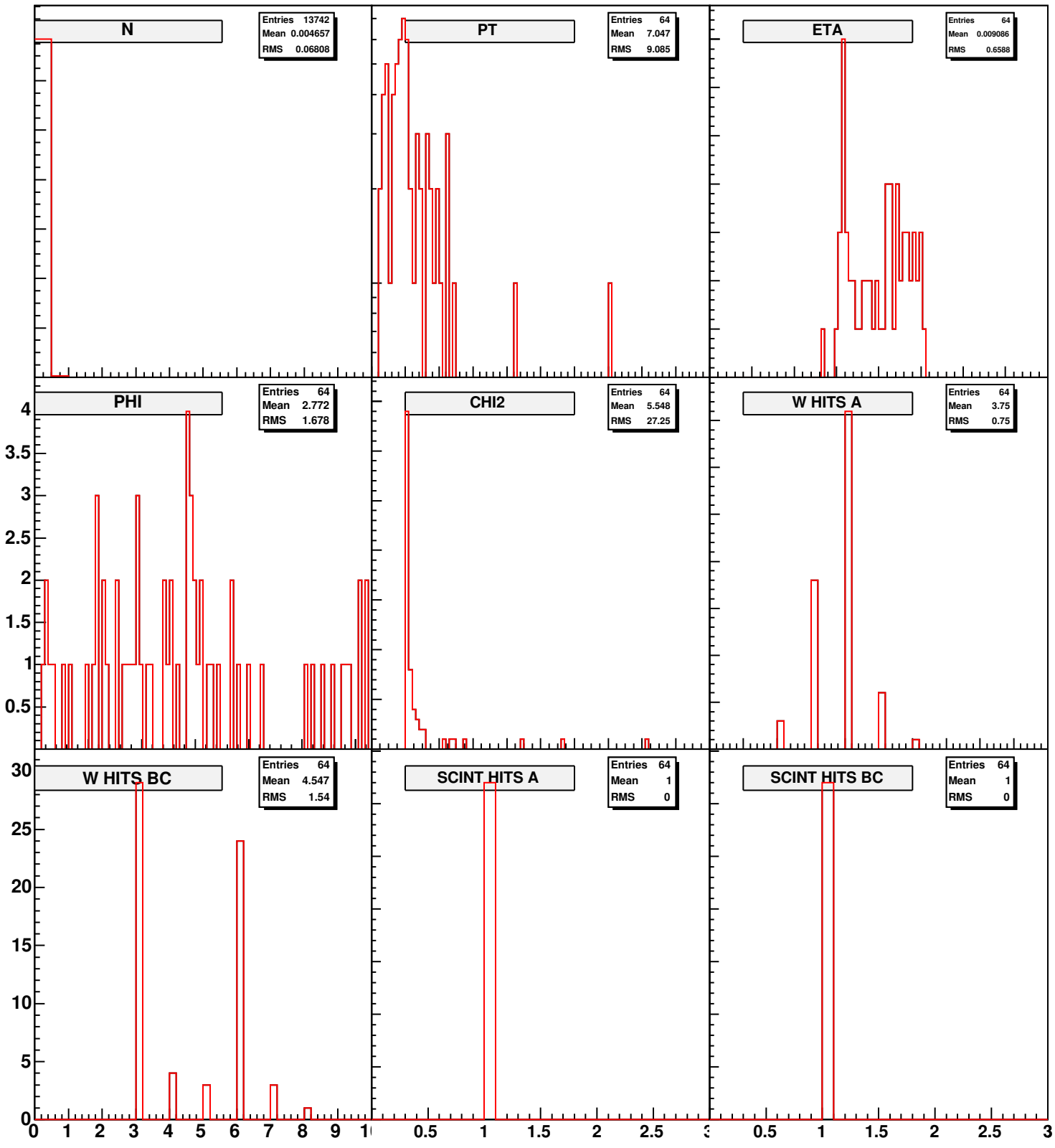
Muon Local Tracks (All)



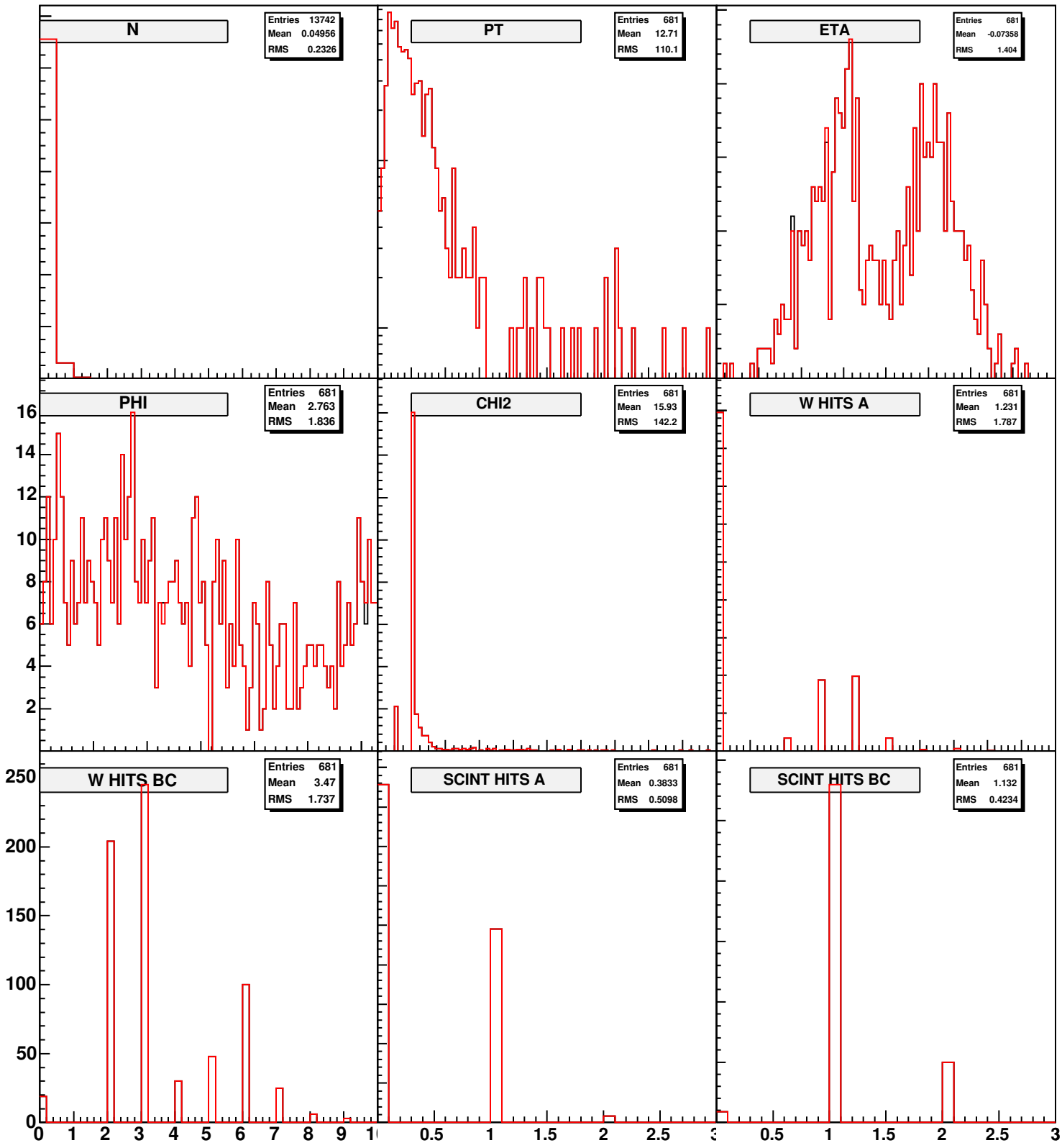
Muon Local Tracks (LooseWamus)



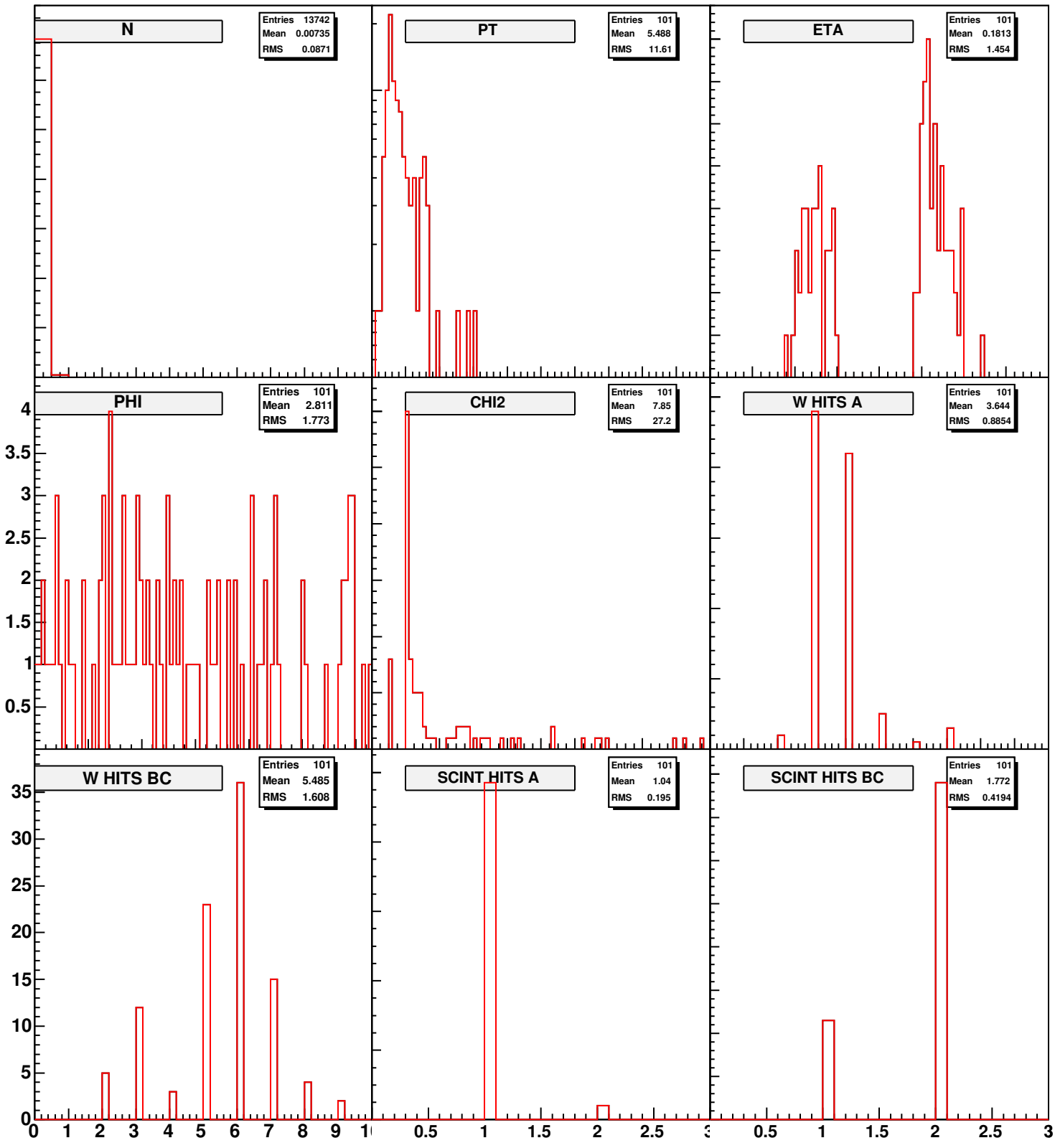
Muon Local Tracks (MediumWamus)



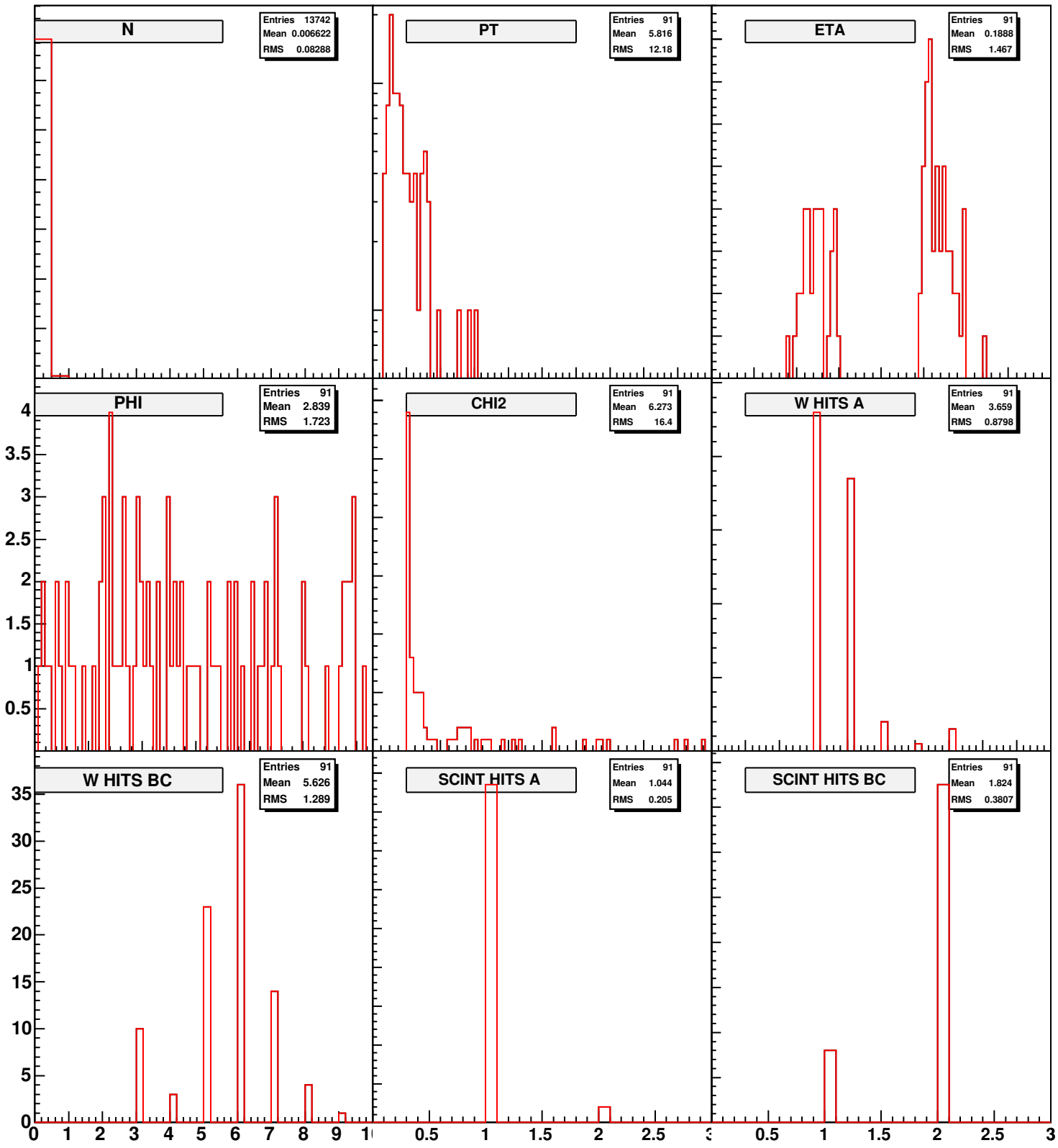
Muon Local Tracks (TightWamus)



Muon Local Tracks (LooseFamus)



Muon Local Tracks (MediumFamus)



Muon Local Tracks (TightFamus)

RECO Performance (Timing)