certify_p17_05_01_reference_208204_fixed_200601221550_
certify_p17_05_01_run_208204_certification_200512011817

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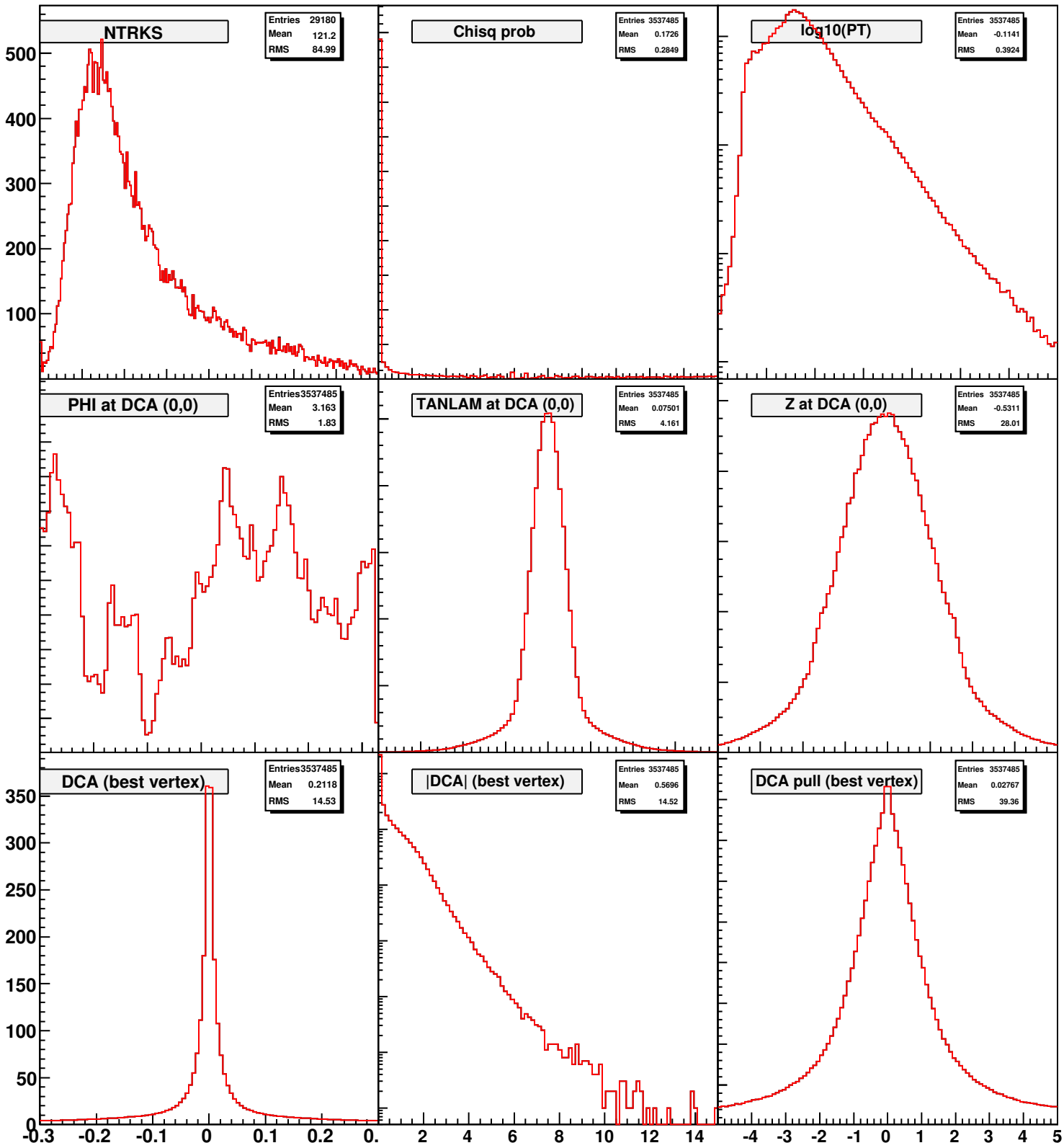
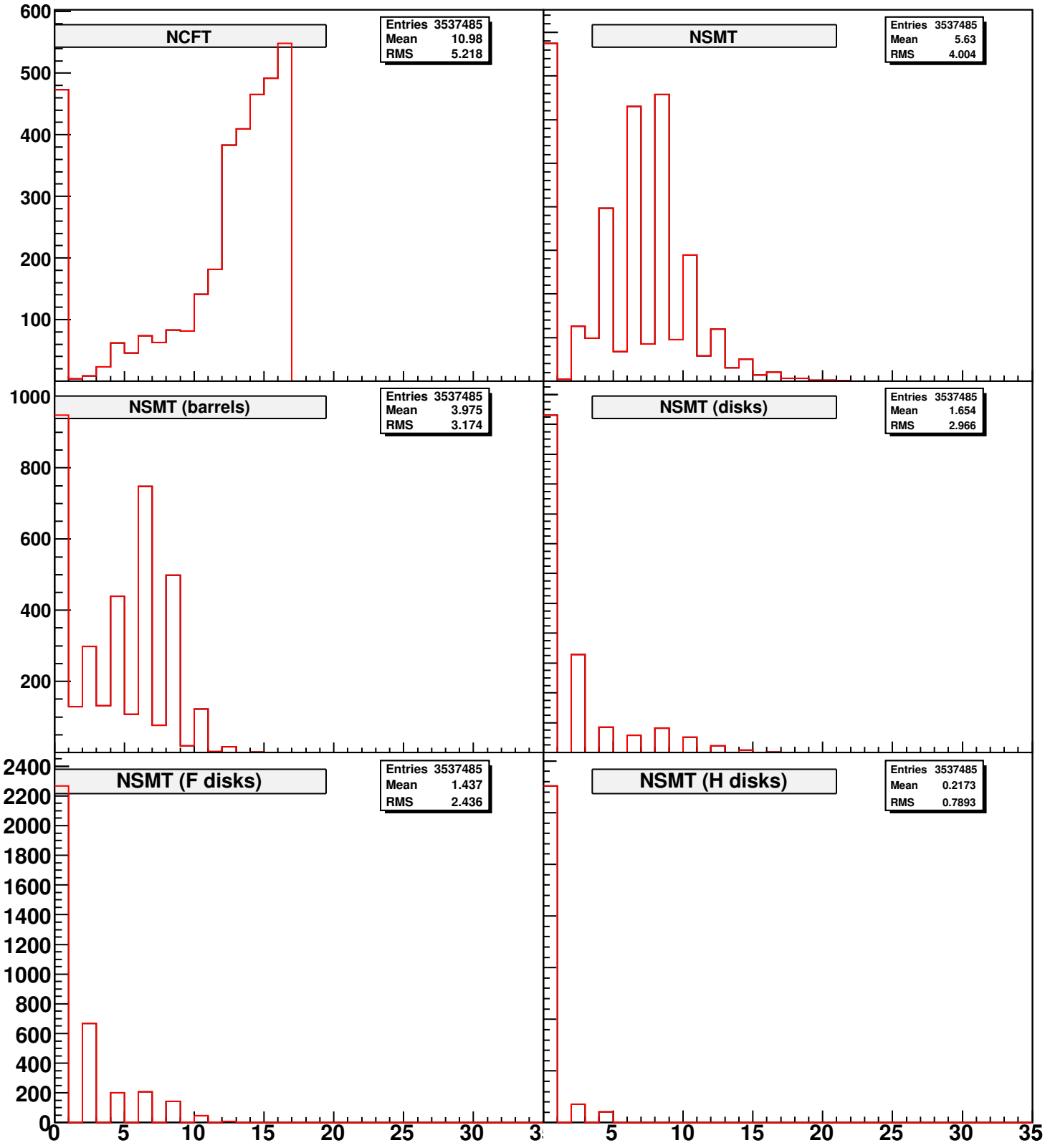
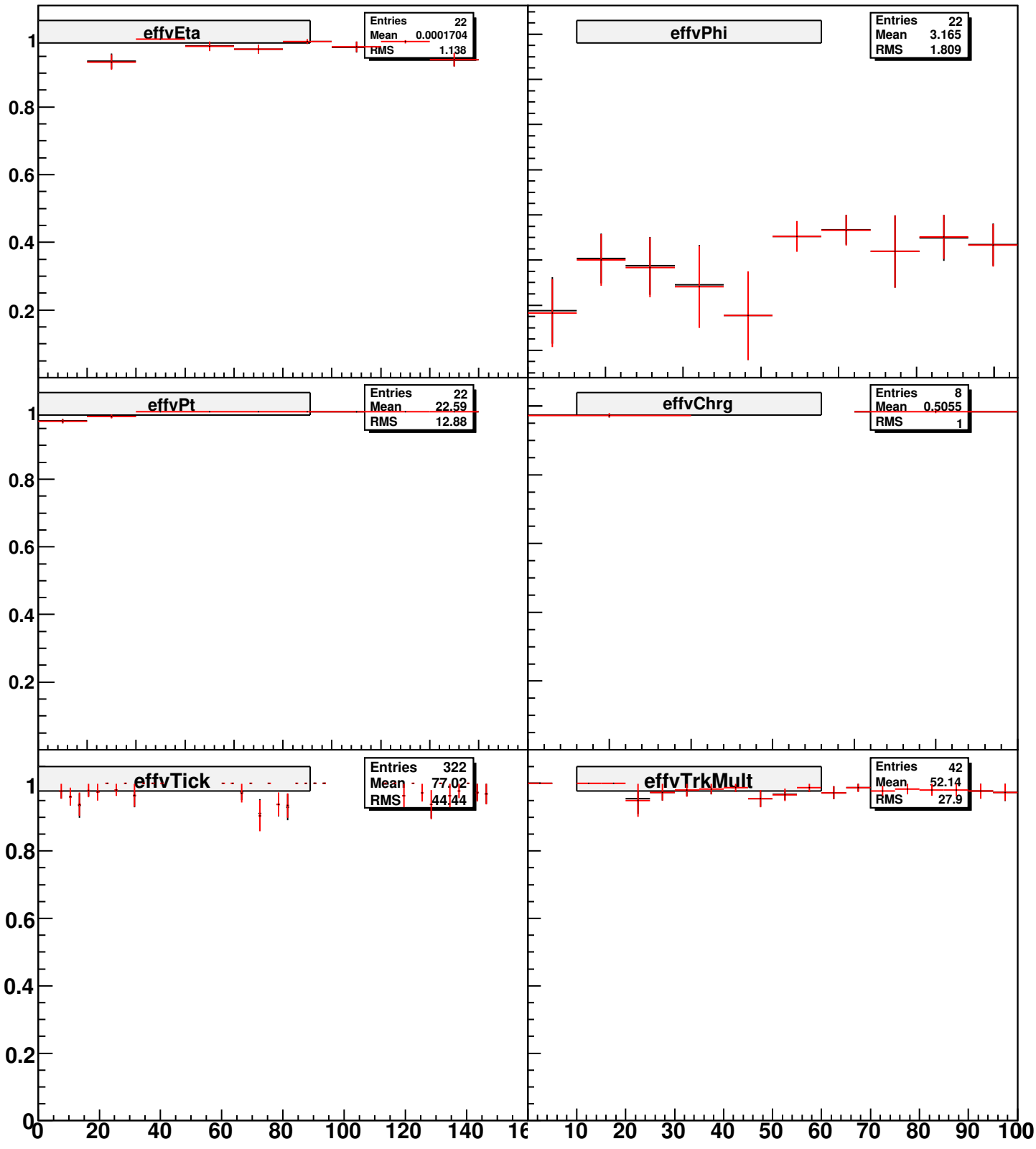
RecoCert_Plots (Index)

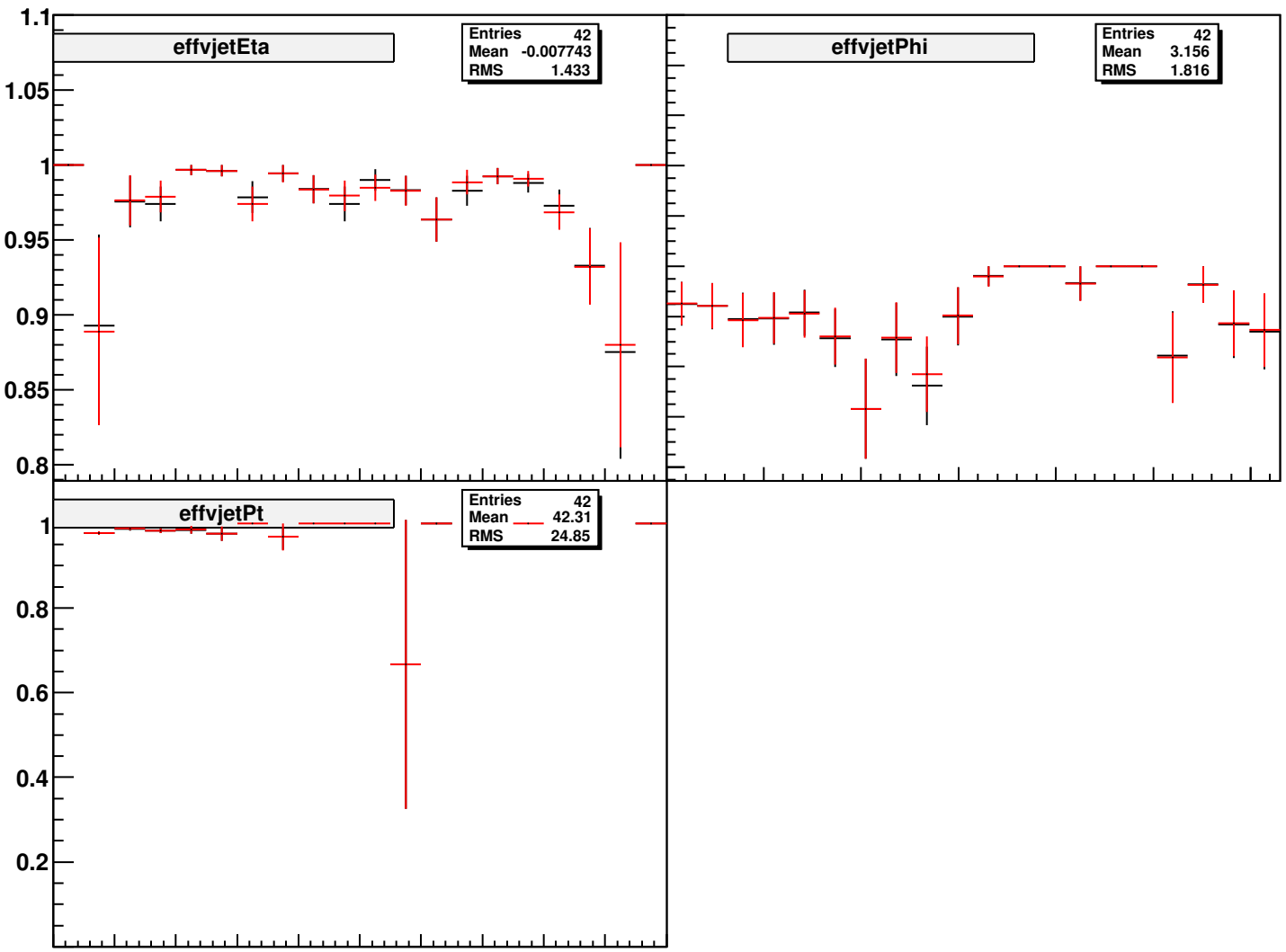

NTRKS
Entries 29180
Mean 121.2
RMS 84.99
Chisq prob
Entries 3537485
Mean 0.1726
RMS 0.2849
log10(PT)
Entries 3537485
Mean -0.1141
RMS 0.3924
PHI at DCA (0,0)
Entries 3537485
Mean 3.163
RMS 1.83
TANLAM at DCA (0,0)
Entries 3537485
Mean 0.07501
RMS 4.161
Z at DCA (0,0)
Entries 3537485
Mean -0.5311
RMS 28.01
DCA (best vertex)
Entries 3537485
Mean 0.2118
RMS 14.53
|DCA| (best vertex)
Entries 3537485
Mean 0.5696
RMS 14.52
DCA pull (best vertex)
Entries 3537485
Mean 0.02767
RMS 39.36

Tracks (All)

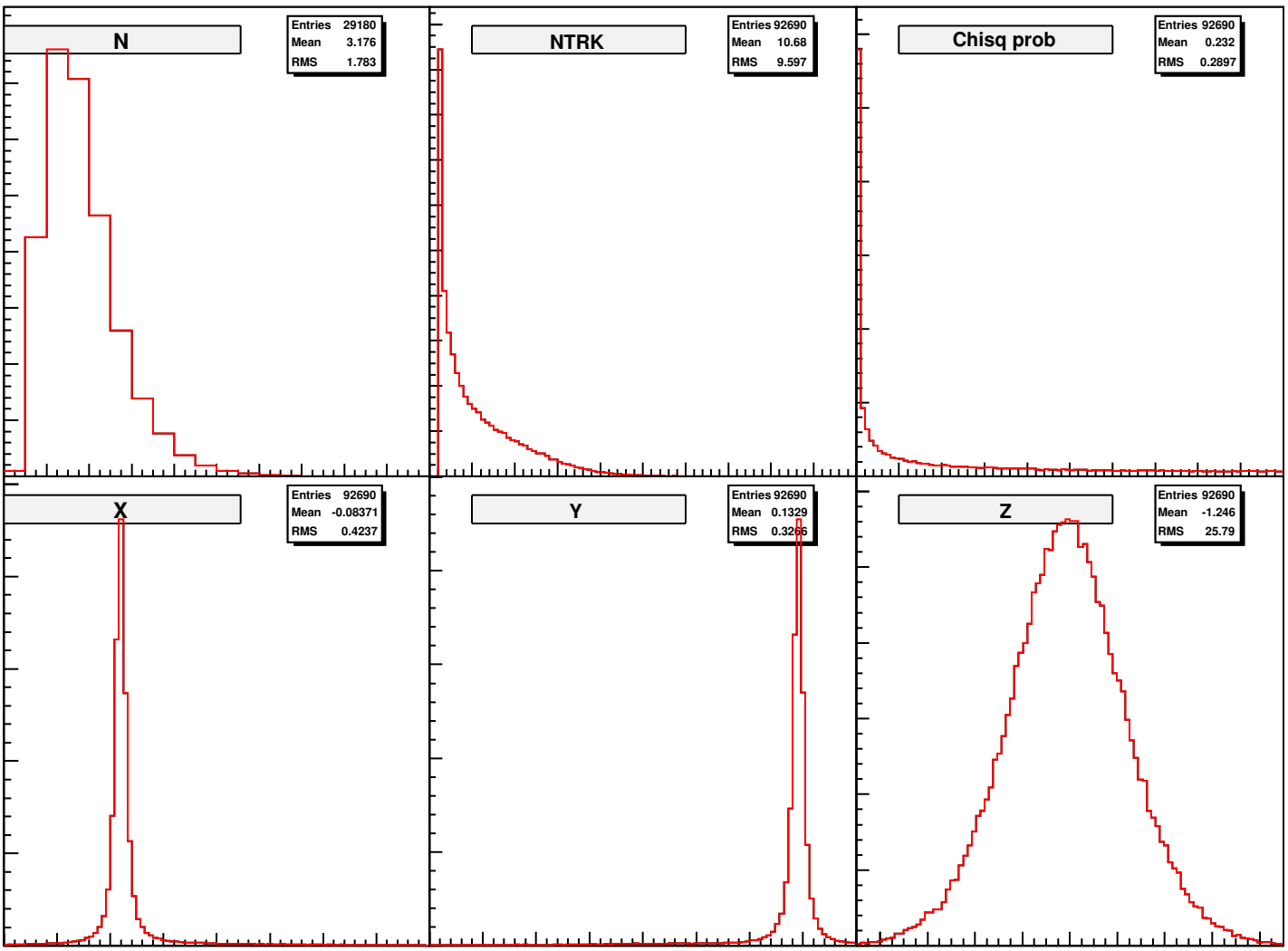

NCFT
Entries 3537485
Mean 10.98
RMS 5.218
NSMT
Entries 3537485
Mean 5.63
RMS 4.004
NSMT (barrels)
Entries 3537485
Mean 3.975
RMS 3.174
NSMT (disks)
Entries 3537485
Mean 1.654
RMS 2.966
NSMT (F disks)
Entries 3537485
Mean 1.437
RMS 2.436
NSMT (H disks)
Entries 3537485
Mean 0.2173
RMS 0.7893
Track Hits (All)



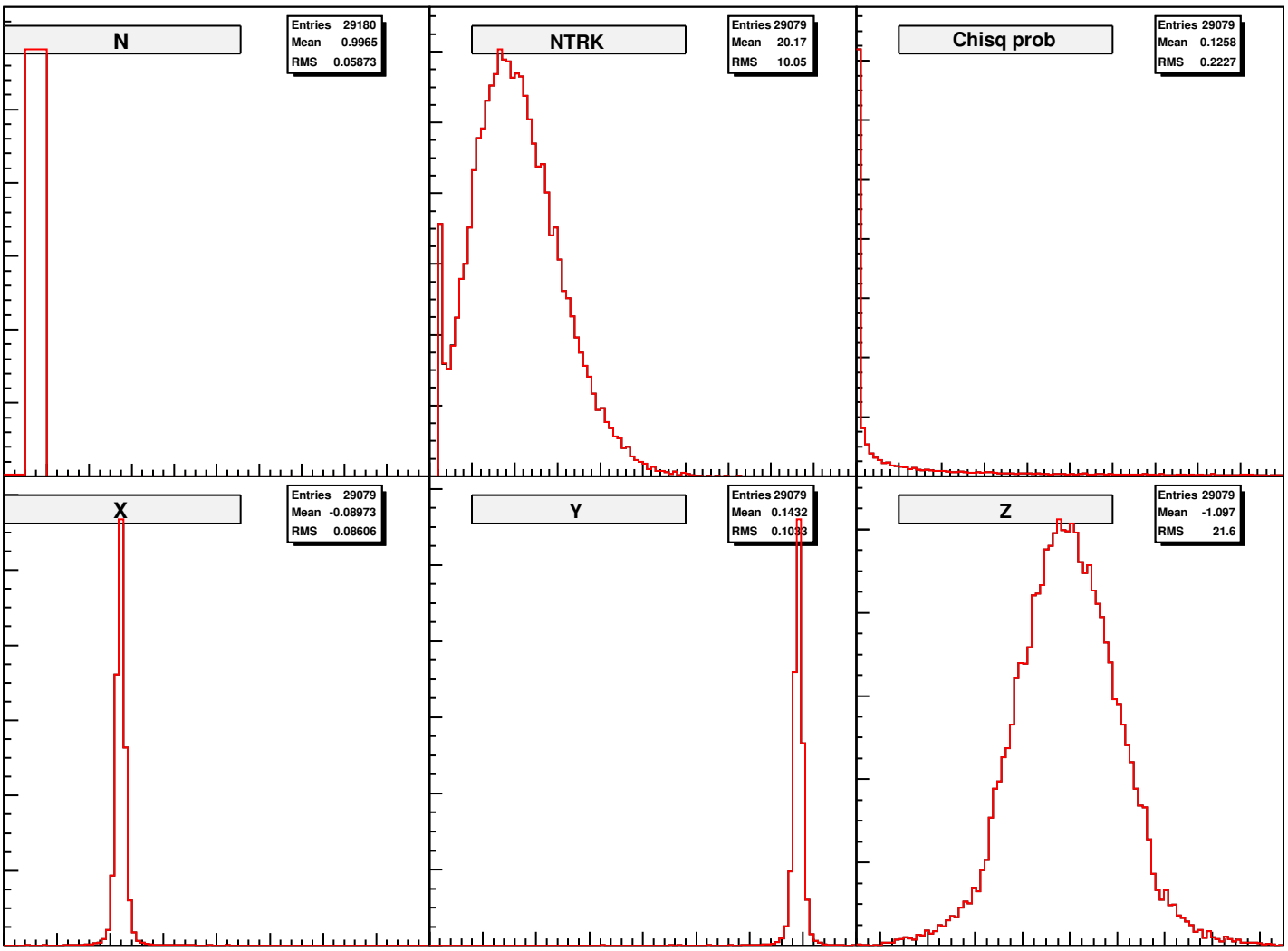
Tracking (Efficiency-Isolated)



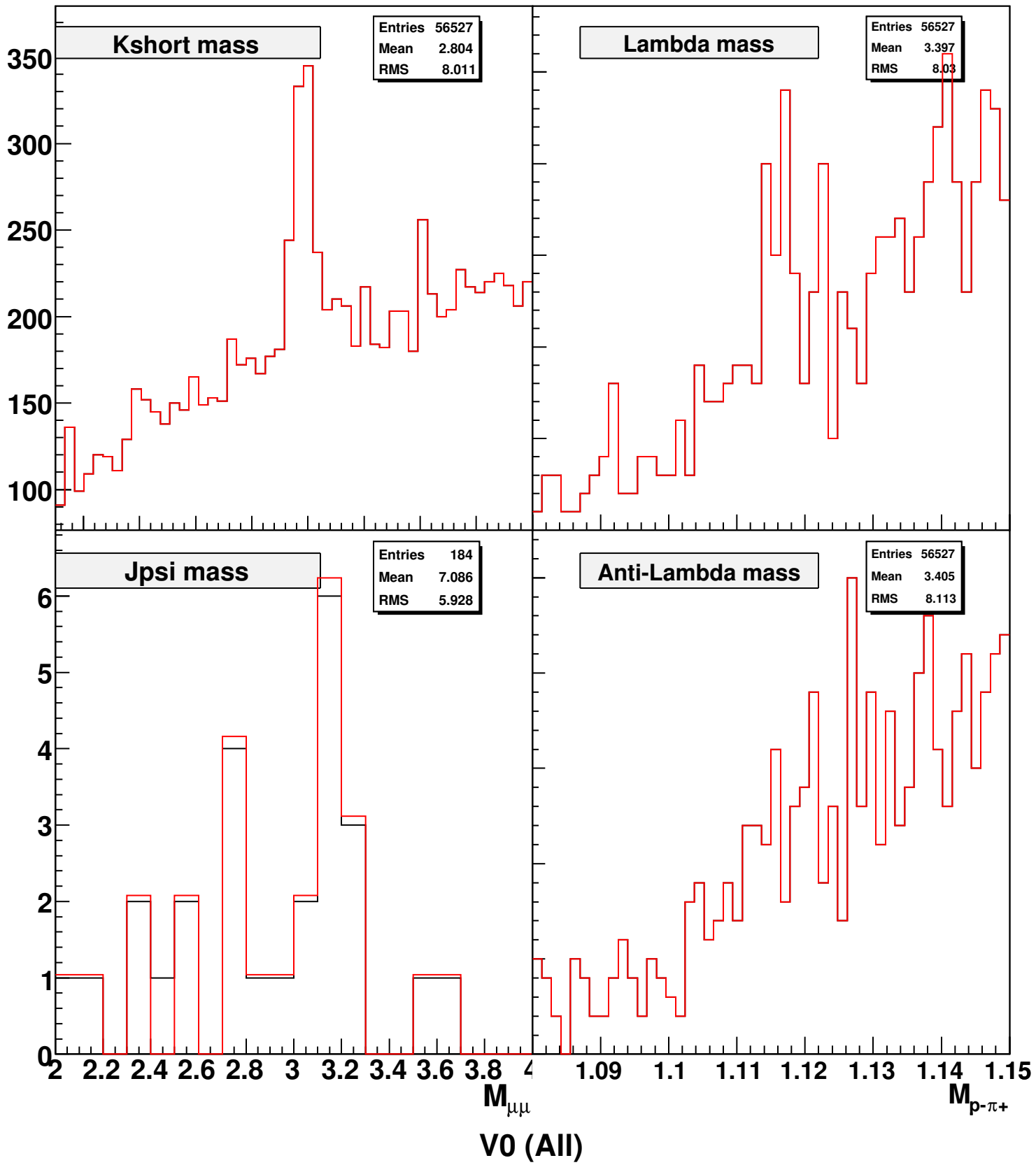
Tracking (Efficiency-InJets)

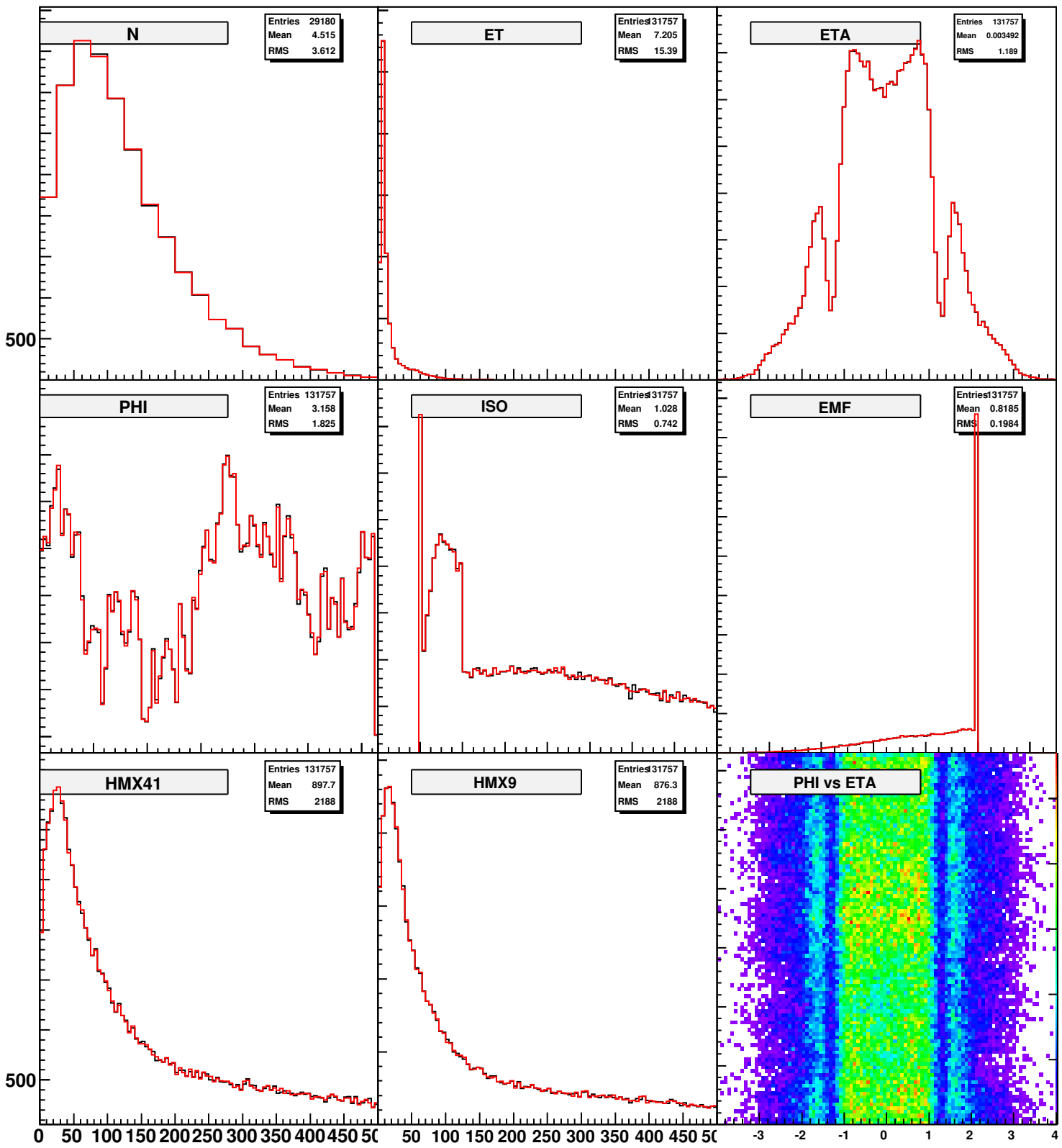


Vertices (Primary - all candidates)

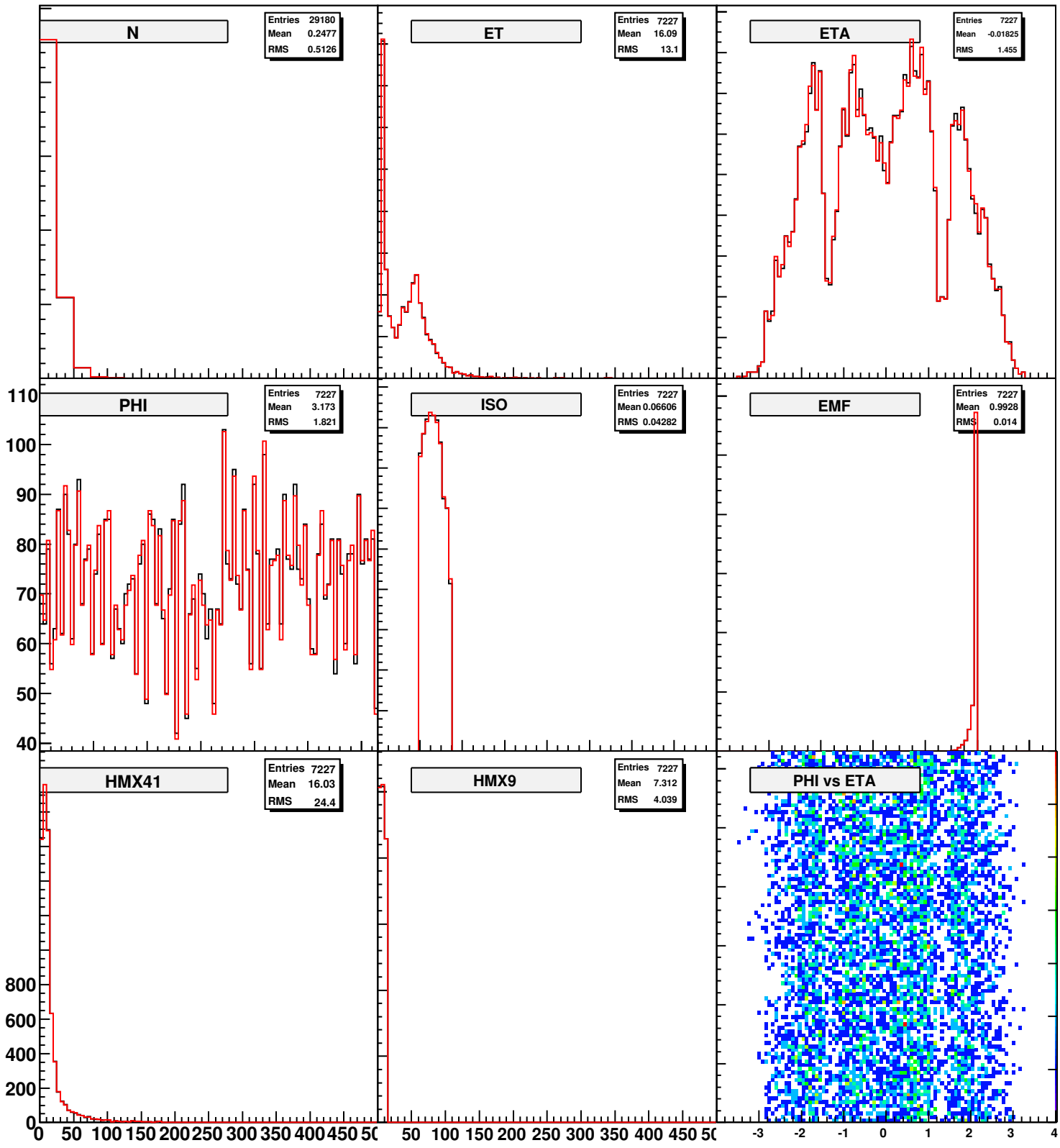


Vertices (Primary - best)

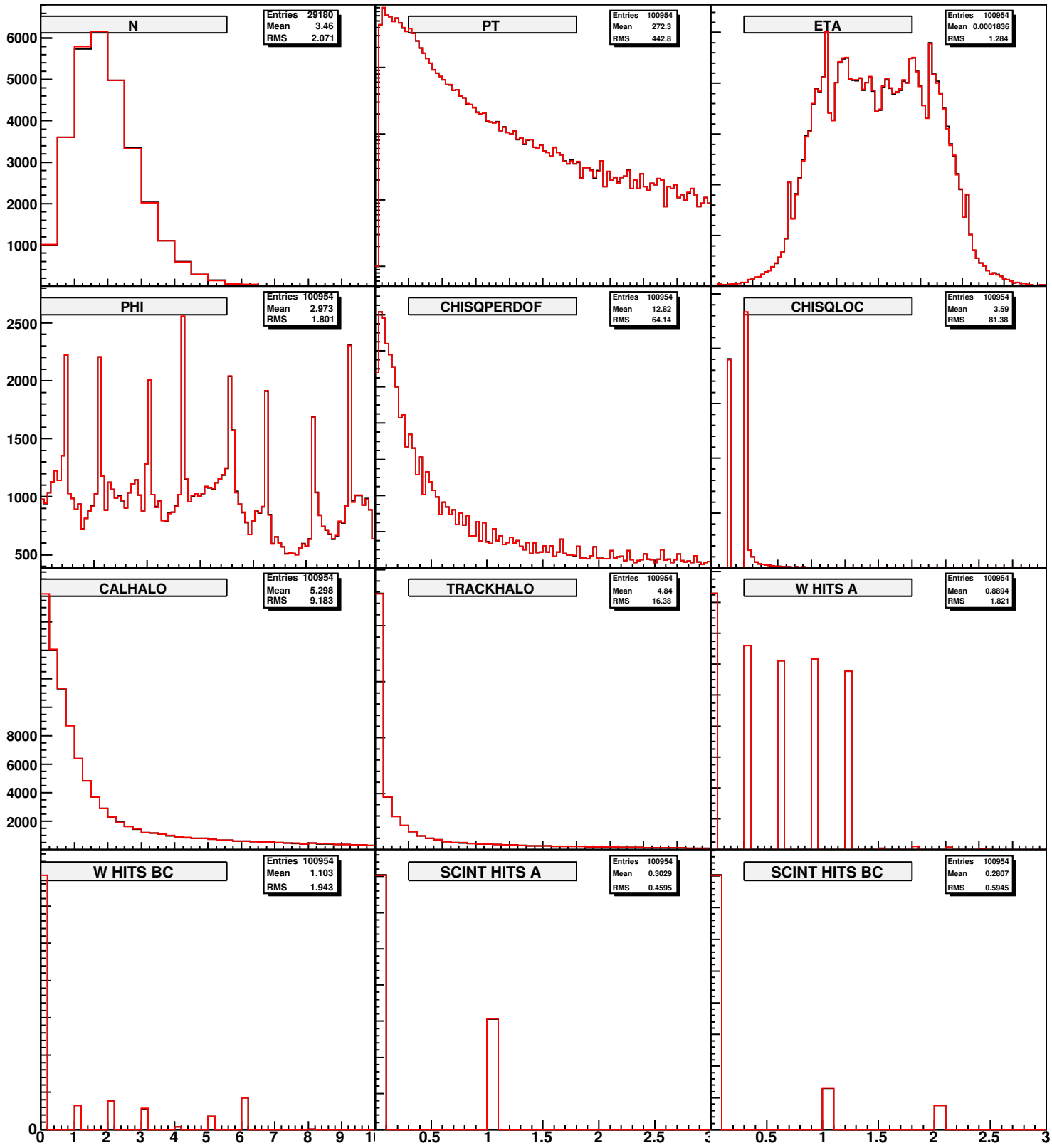

Kshort mass
Entries 56527
Mean 2.804
RMS 8.011
Lambda mass
Entries 56527
Mean 3.397
RMS 8.03
Jpsi mass
Entries 184
Mean 7.086
RMS 5.928
Anti-Lambda mass
Entries 56527
Mean 3.405
RMS 8.113
M$_{\mu\mu}$
M$_{p\text{-}\pi+}$
V0 (All)



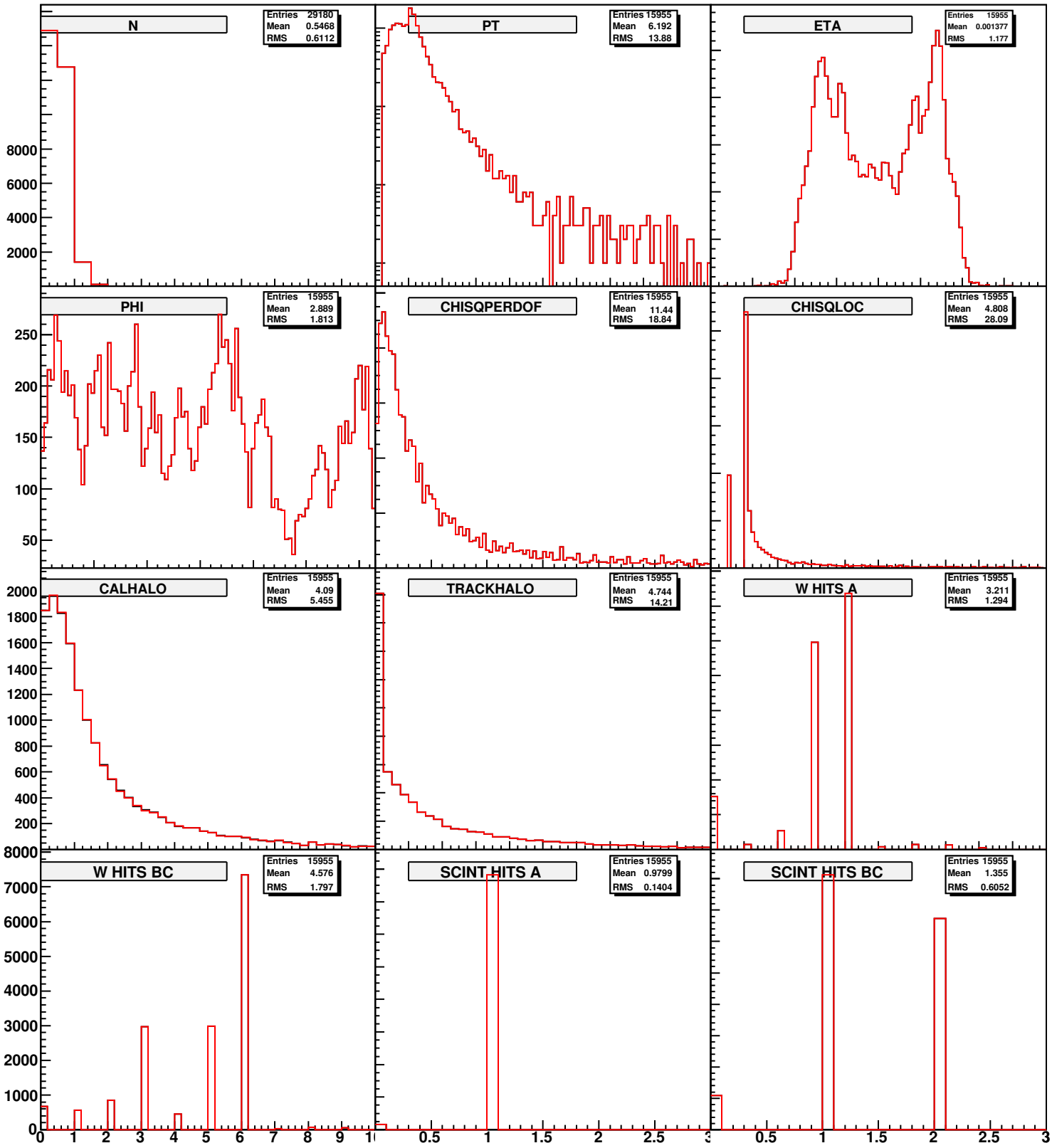
Electrons (SCONE All)



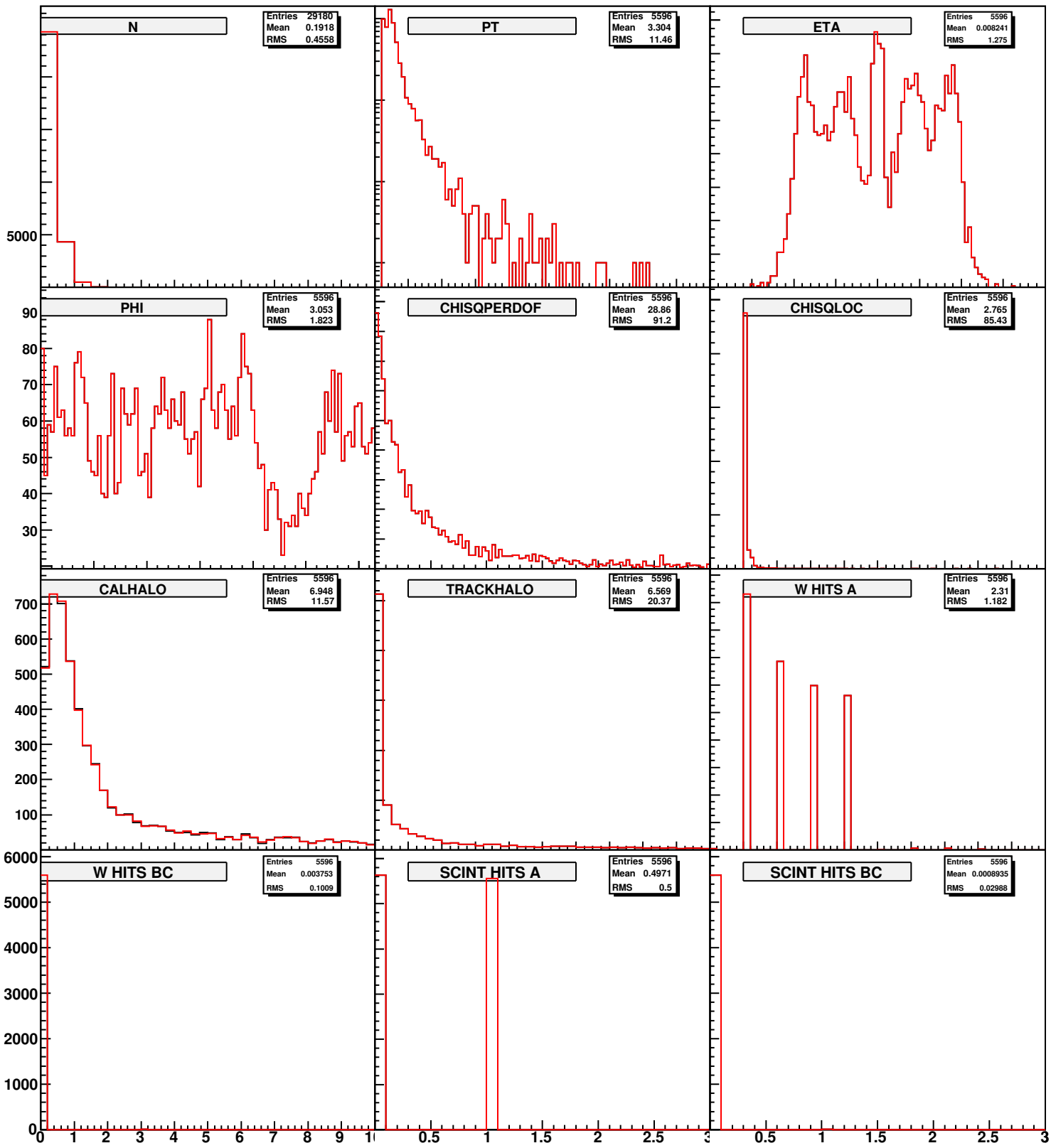
Electrons (SCONE Tight)


N
Entries 29180
Mean 3.46
RMS 2.071
PT
Entries 100954
Mean 272.3
RMS 442.8
ETA
Entries 100954
Mean 0.0001836
RMS 1.284
PHI
Entries 100954
Mean 2.973
RMS 1.801
CHISQPERDOF
Entries 100954
Mean 12.82
RMS 64.14
CHISQLOC
Entries 100954
Mean 3.59
RMS 81.38
CALHALO
Entries 100954
Mean 5.298
RMS 9.183
TRACKHALO
Entries 100954
Mean 4.84
RMS 16.38
W HITS A
Entries 100954
Mean 0.8894
RMS 1.821
W HITS BC
Entries 100954
Mean 1.103
RMS 1.943
SCINT HITS A
Entries 100954
Mean 0.3029
RMS 0.4595
SCINT HITS BC
Entries 100954
Mean 0.2807
RMS 0.5945

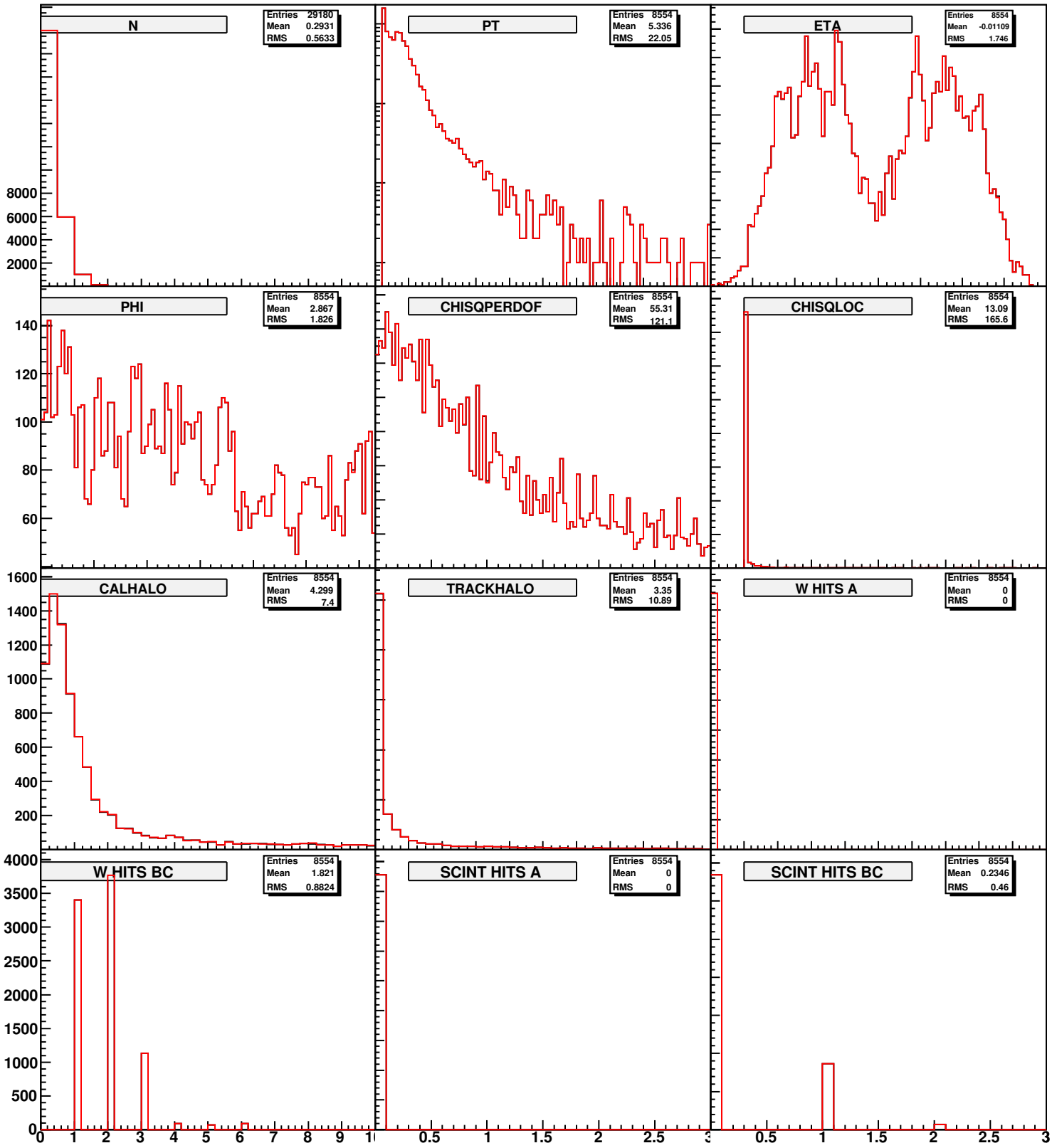
Muons (All)



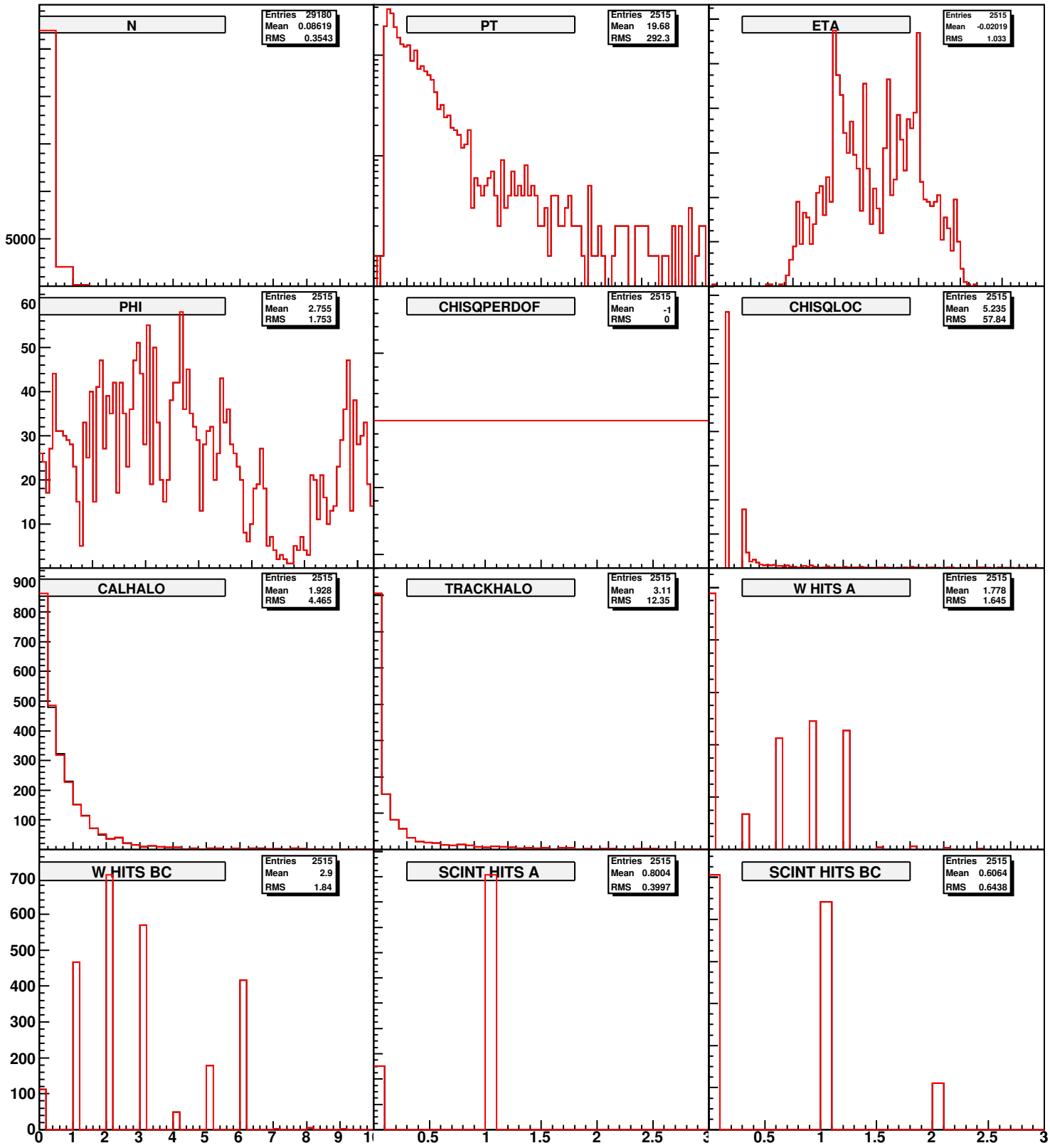
Muons (Matched)


N
Entries 29180
Mean 0.1918
RMS 0.4558
PT
Entries 5596
Mean 3.304
RMS 11.46
ETA
Entries 5596
Mean 0.008241
RMS 1.275
PHI
Entries 5596
Mean 3.053
RMS 1.823
CHISQPERDOF
Entries 5596
Mean 28.86
RMS 91.2
CHISQLOC
Entries 5596
Mean 2.765
RMS 85.43
CALHALO
Entries 5596
Mean 6.948
RMS 11.57
TRACKHALO
Entries 5596
Mean 6.569
RMS 20.37
W HITS A
Entries 5596
Mean 2.31
RMS 1.182
W HITS BC
Entries 5596
Mean 0.003753
RMS 0.1009
SCINT HITS A
Entries 5596
Mean 0.4971
RMS 0.5
SCINT HITS BC
Entries 5596
Mean 0.0008935
RMS 0.02988

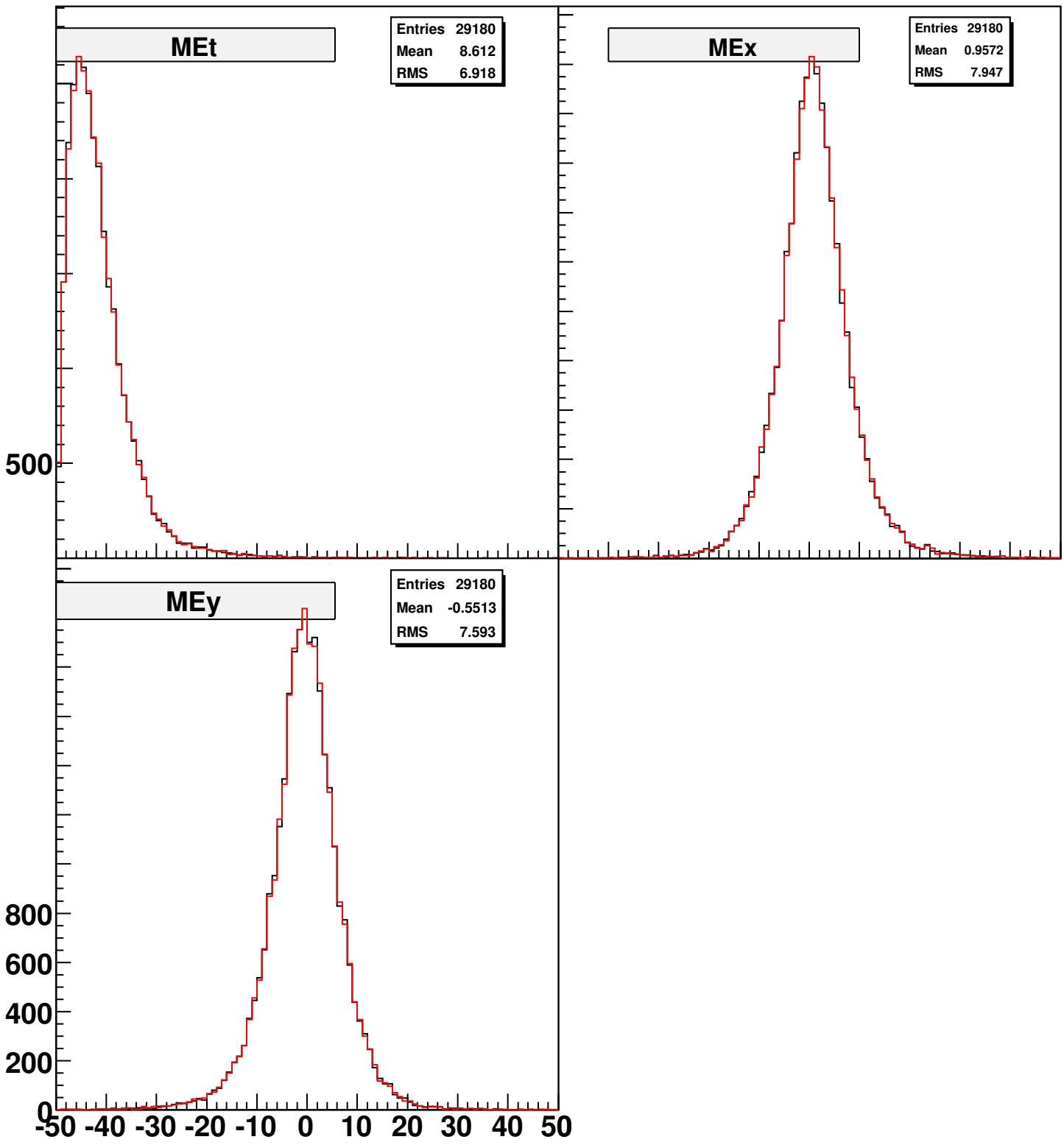
Muons (Astub)

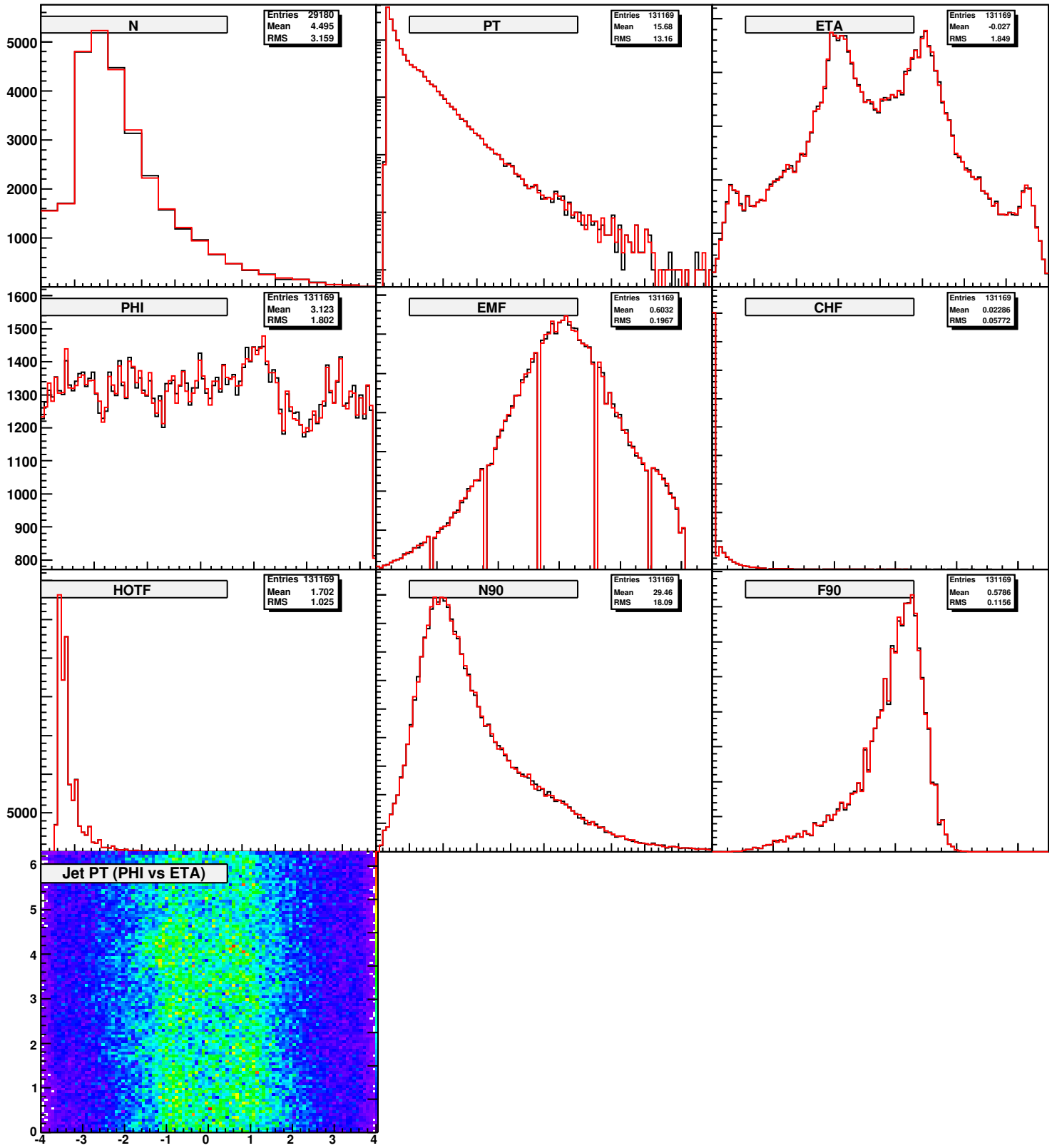


Muons (BCstub)

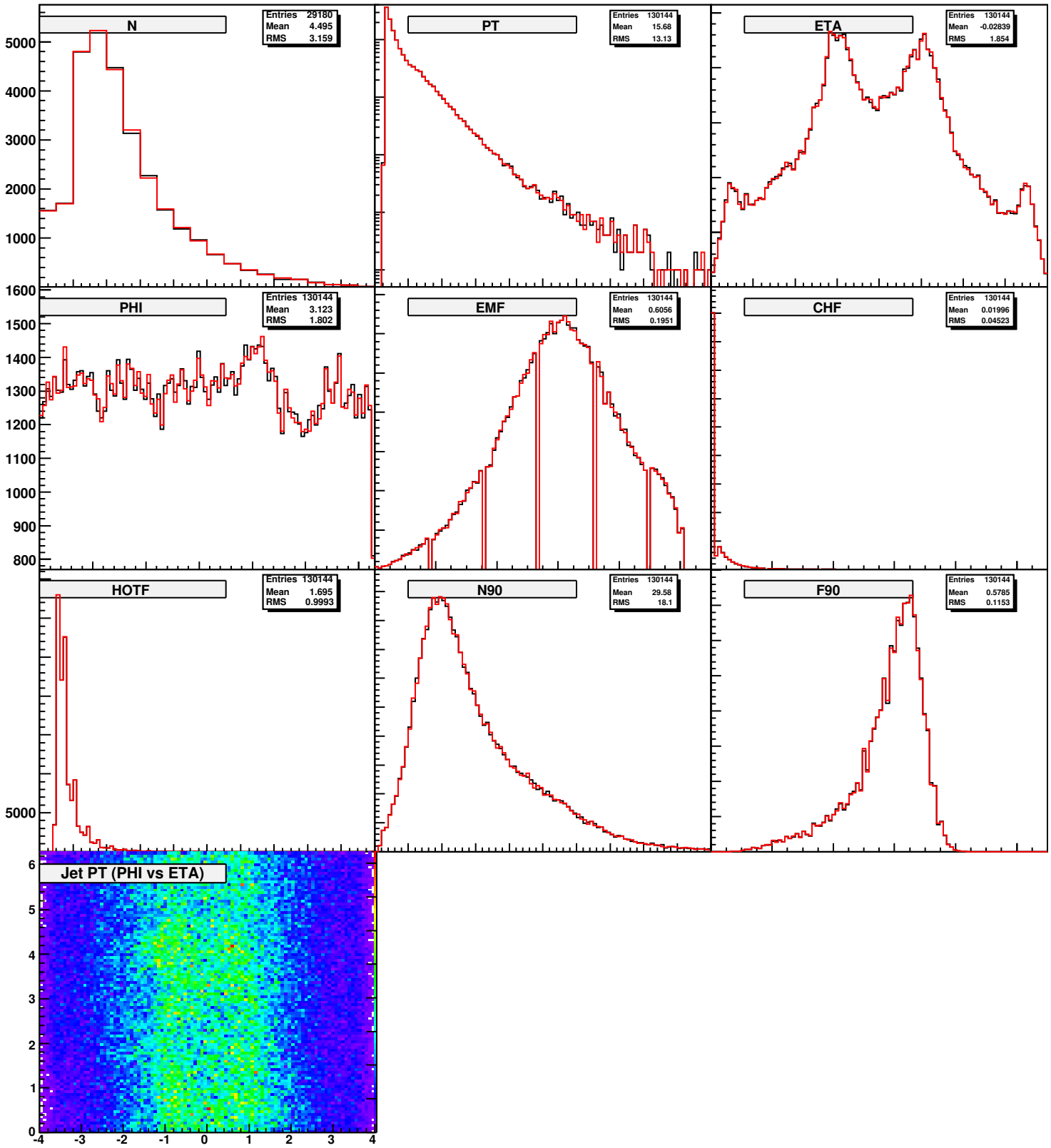


Muons (Unmatched)

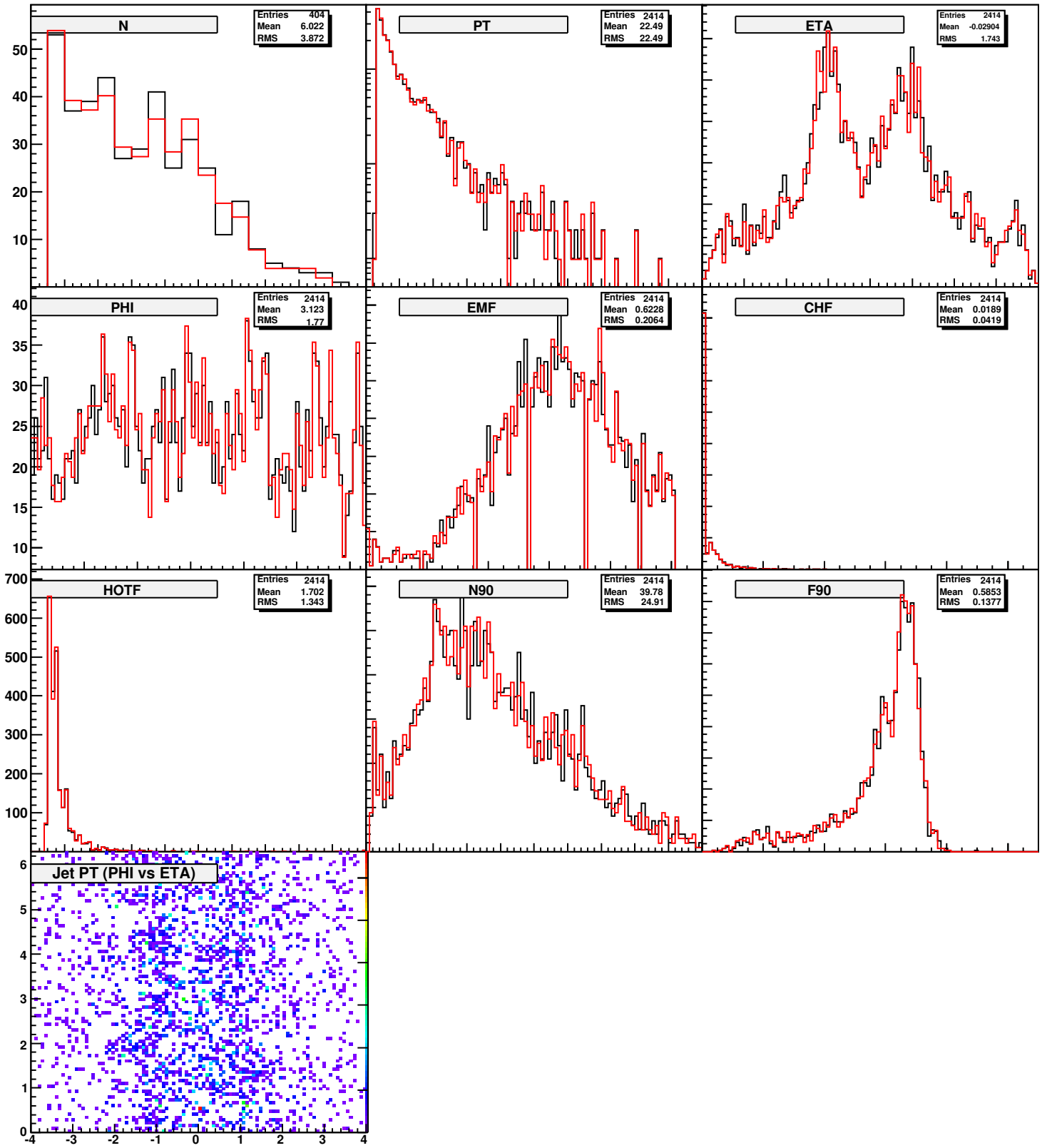

MEt
Entries 29180
Mean 8.612
RMS 6.918
MEx
Entries 29180
Mean 0.9572
RMS 7.947
MEy
Entries 29180
Mean -0.5513
RMS 7.593
500
800
600
400
200
0
-50 -40 -30 -20 -10 0 10 20 30 40 50
Met (No cuts)



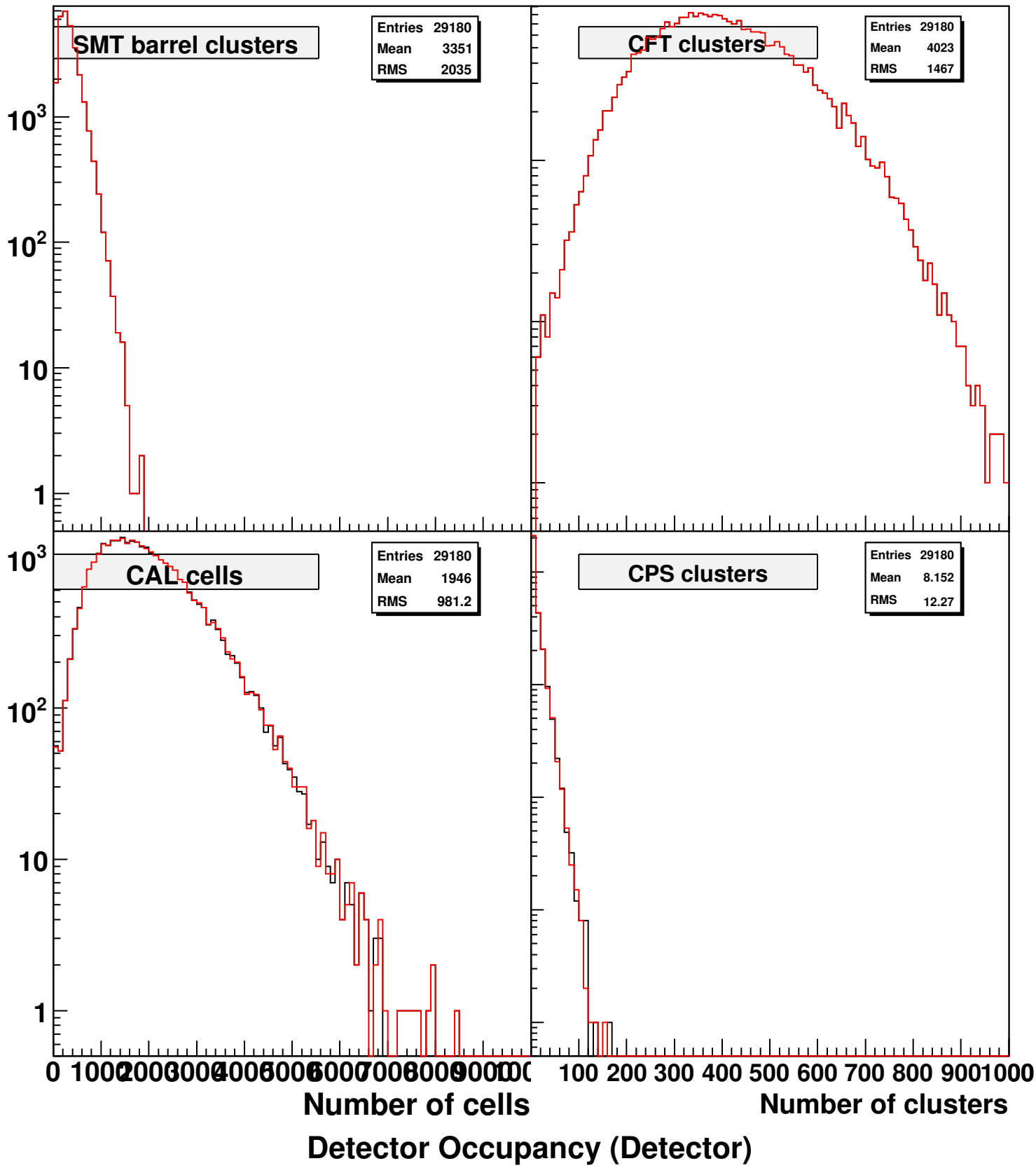
Jets (Cone R 0.7 (no cuts))

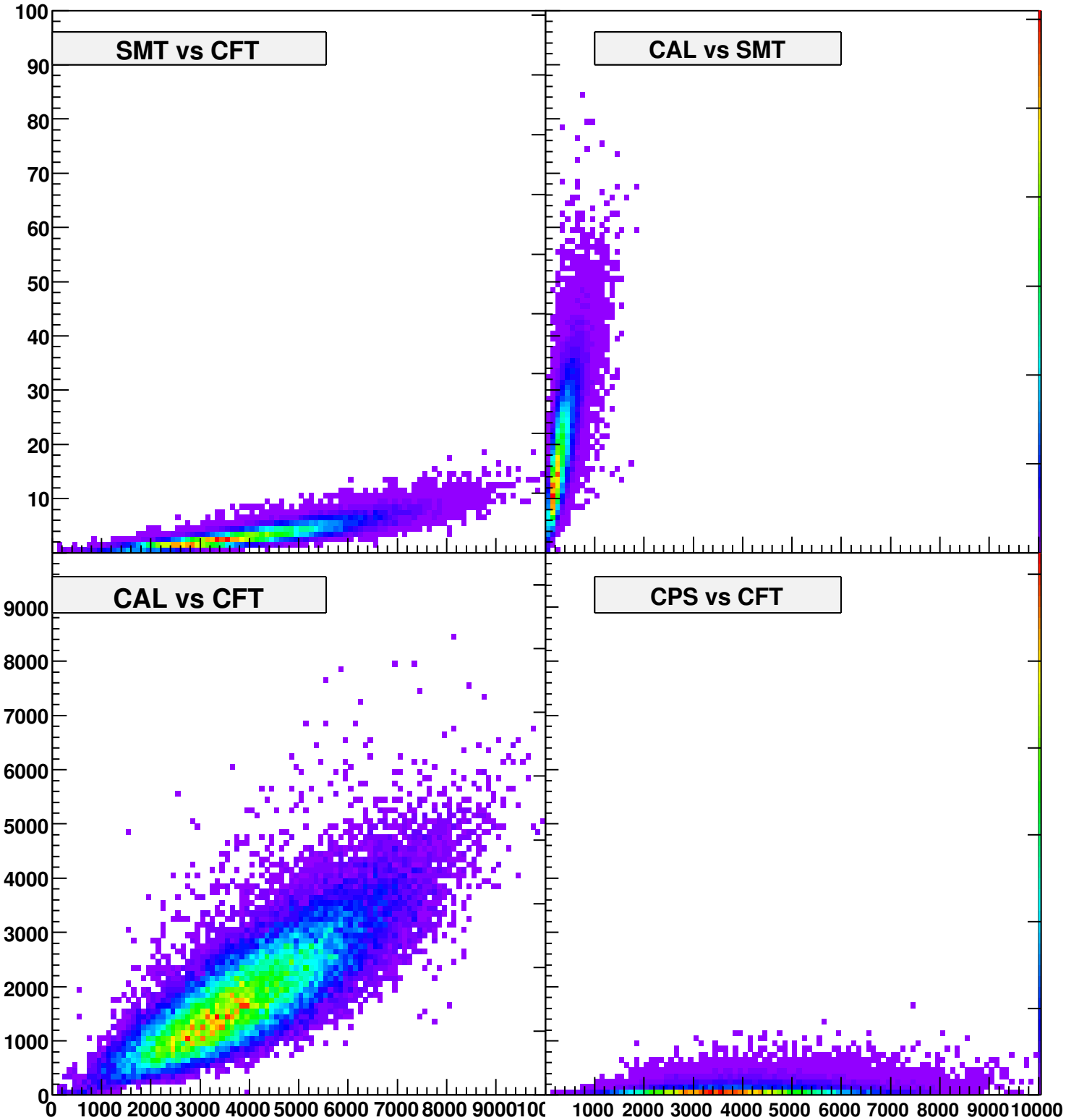


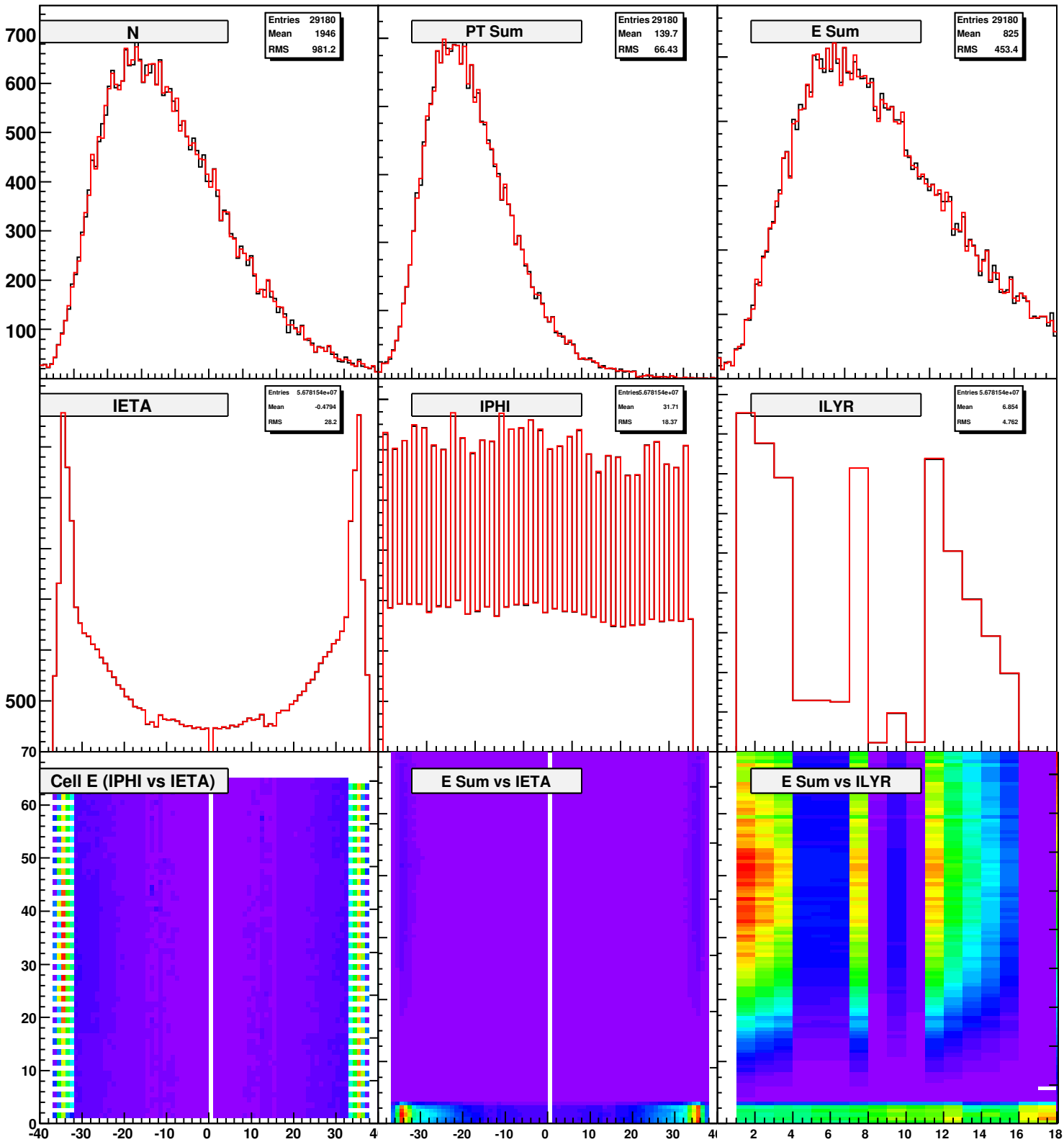
Jets (Cone R 0.7 (standard cuts))



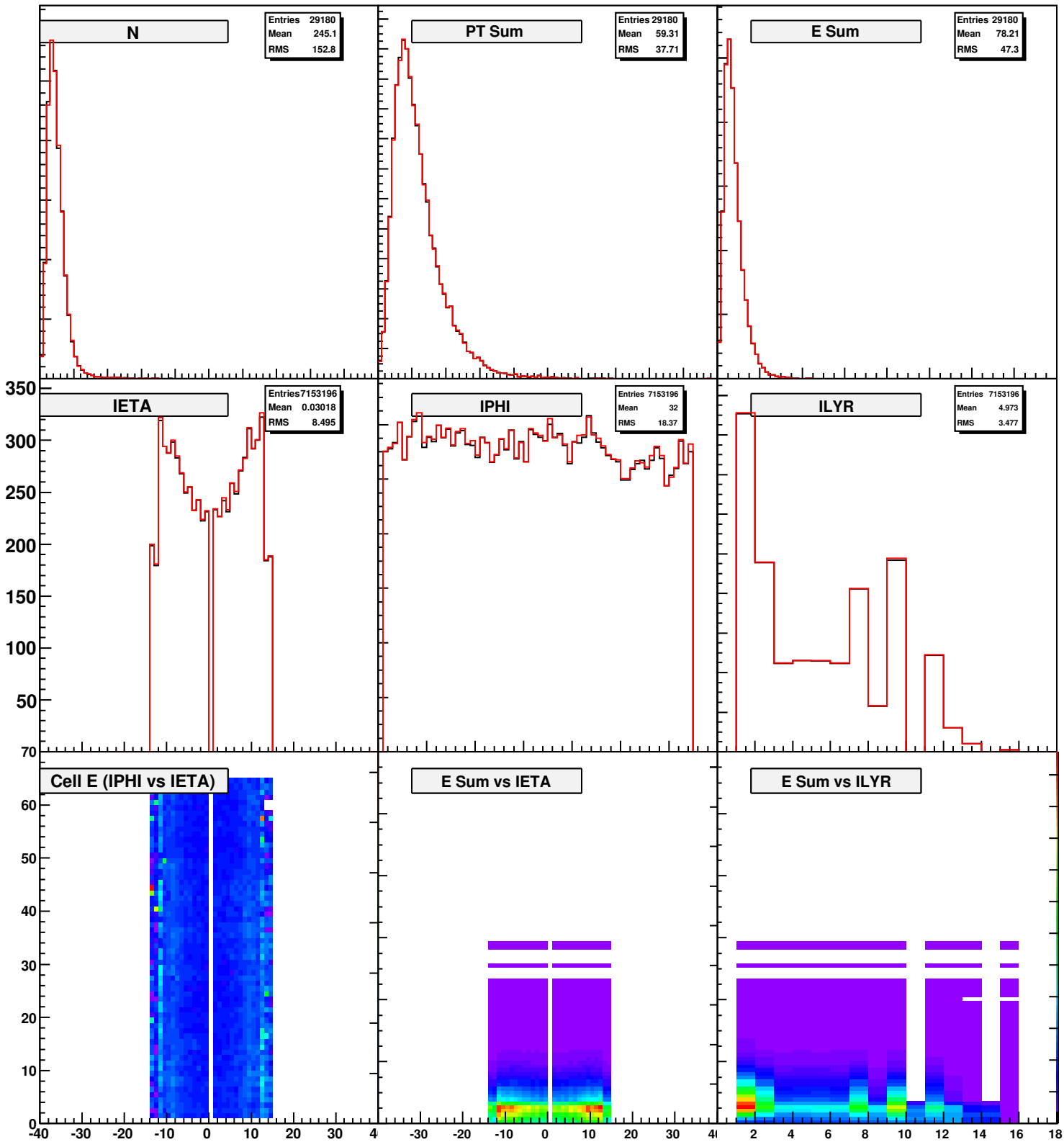
Jets (Cone R 0.7 (standard cuts, MET>30))


SMT barrel clusters
Entries 29180
Mean 3351
RMS 2035
CFT clusters
Entries 29180
Mean 4023
RMS 1467
CAL cells
Entries 29180
Mean 1946
RMS 981.2
CPS clusters
Entries 29180
Mean 8.152
RMS 12.27
10^3
10^2
10
1
0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Number of cells
100 200 300 400 500 600 700 800 900 1000
Number of clusters
Detector Occupancy (Detector)

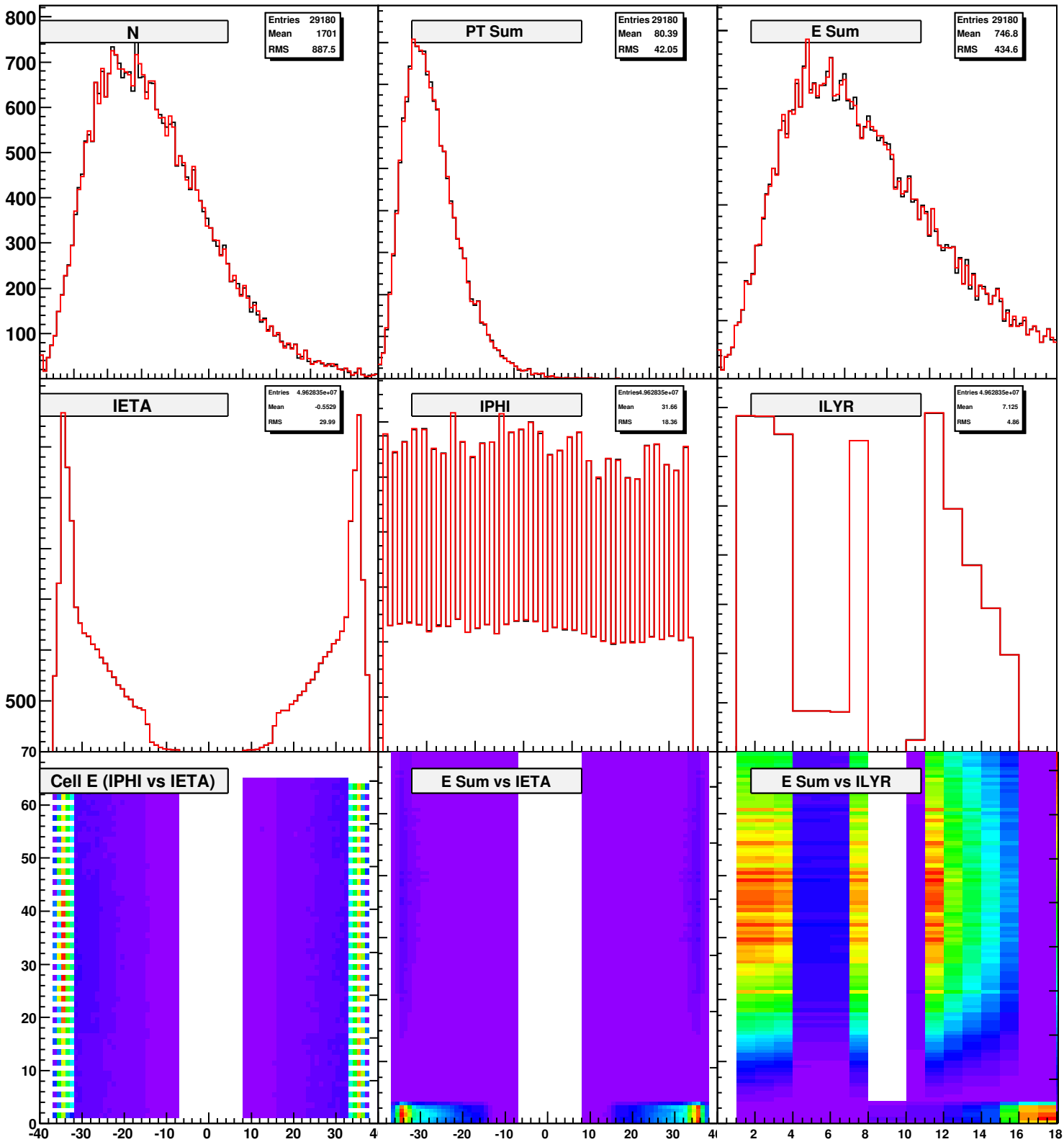

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
100
90
80
70
60
50
40
30
20
10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1000 2000 3000 4000 5000 6000 7000 8000 9000
1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
Detector Occupancy (Detector)



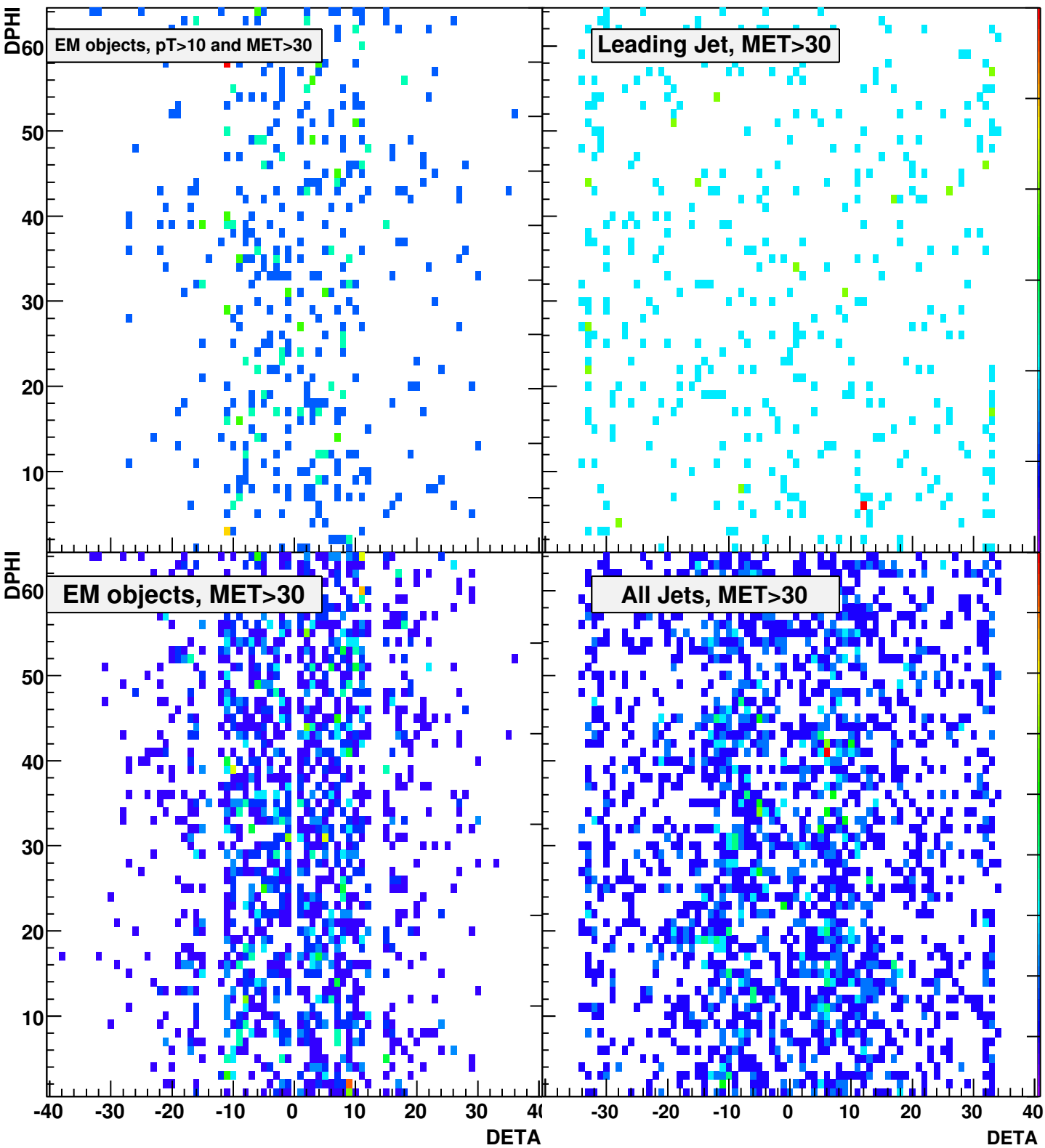
Calorimeter (All cells)



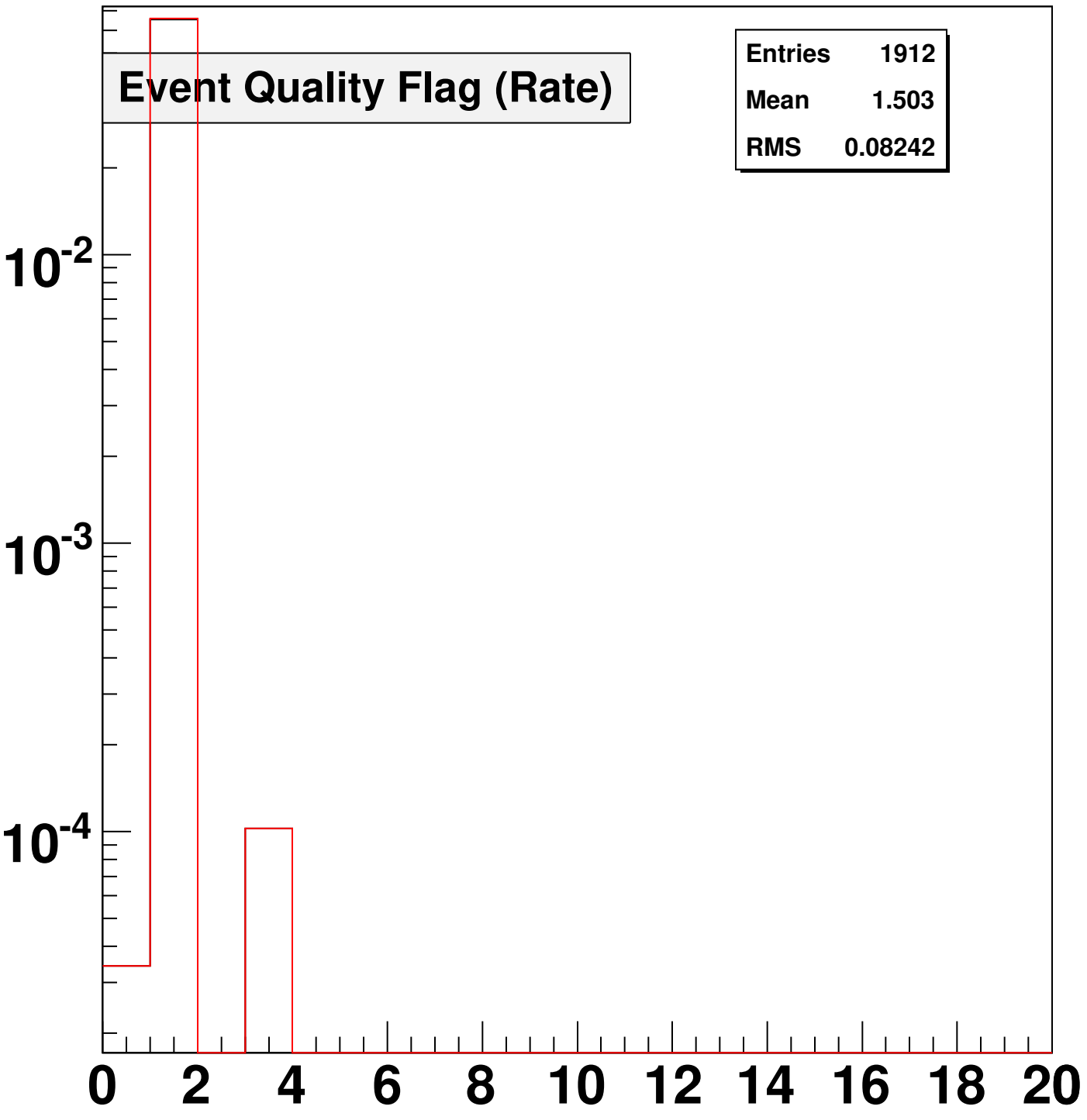
Calorimeter (All CC cells)

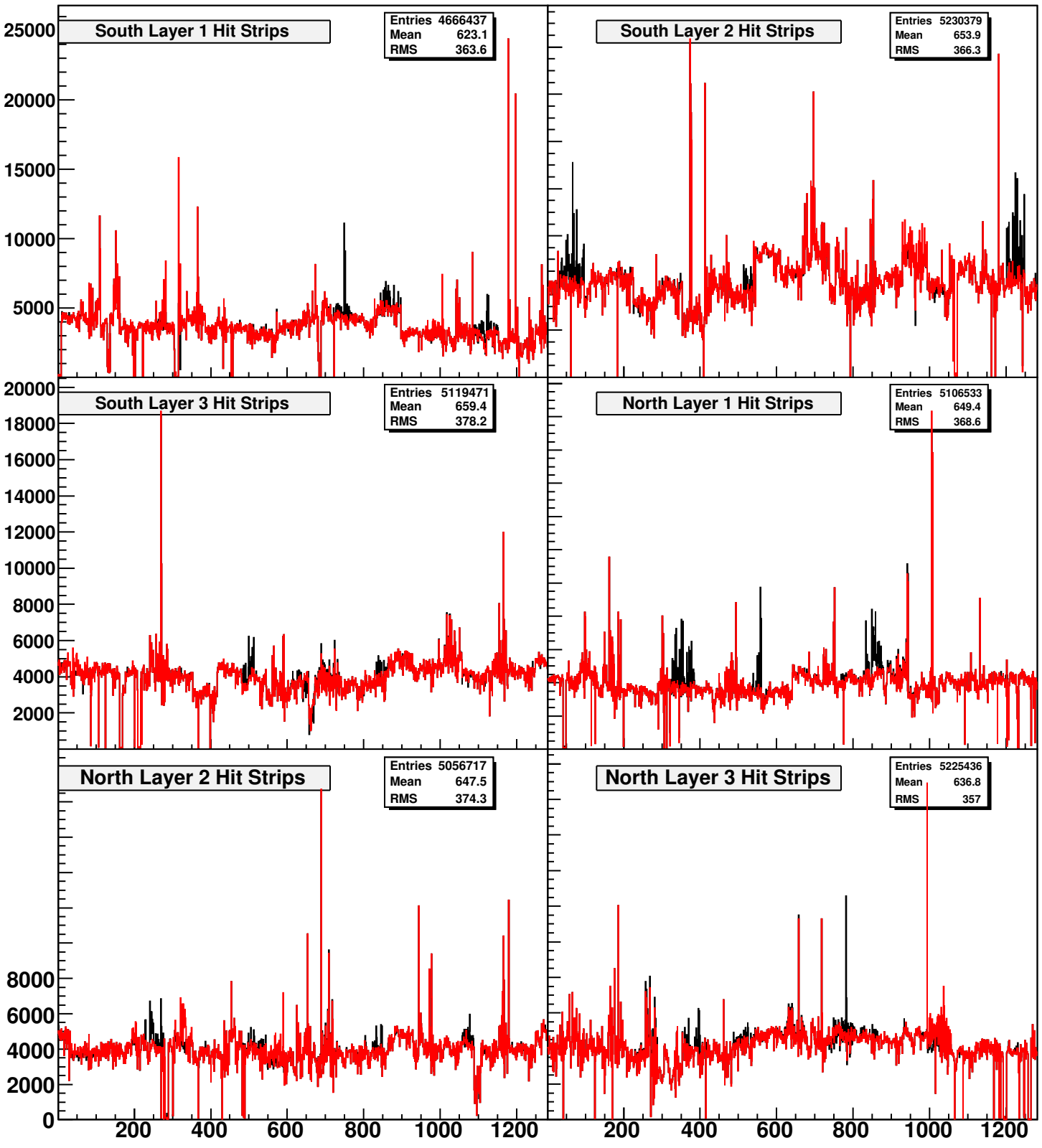


Calorimeter (All EC cells)

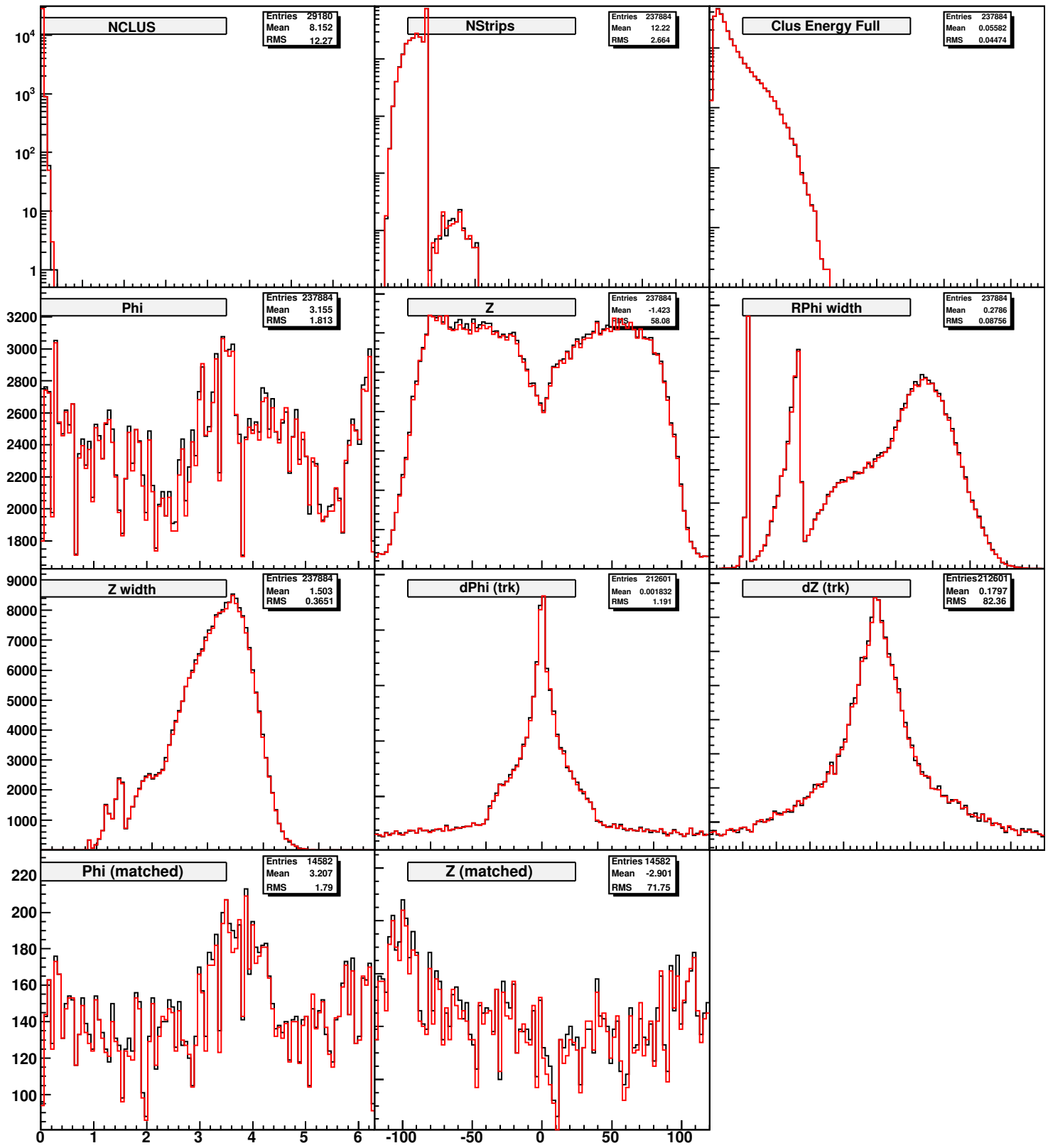


Cal Objects with MET>30 (All cells)

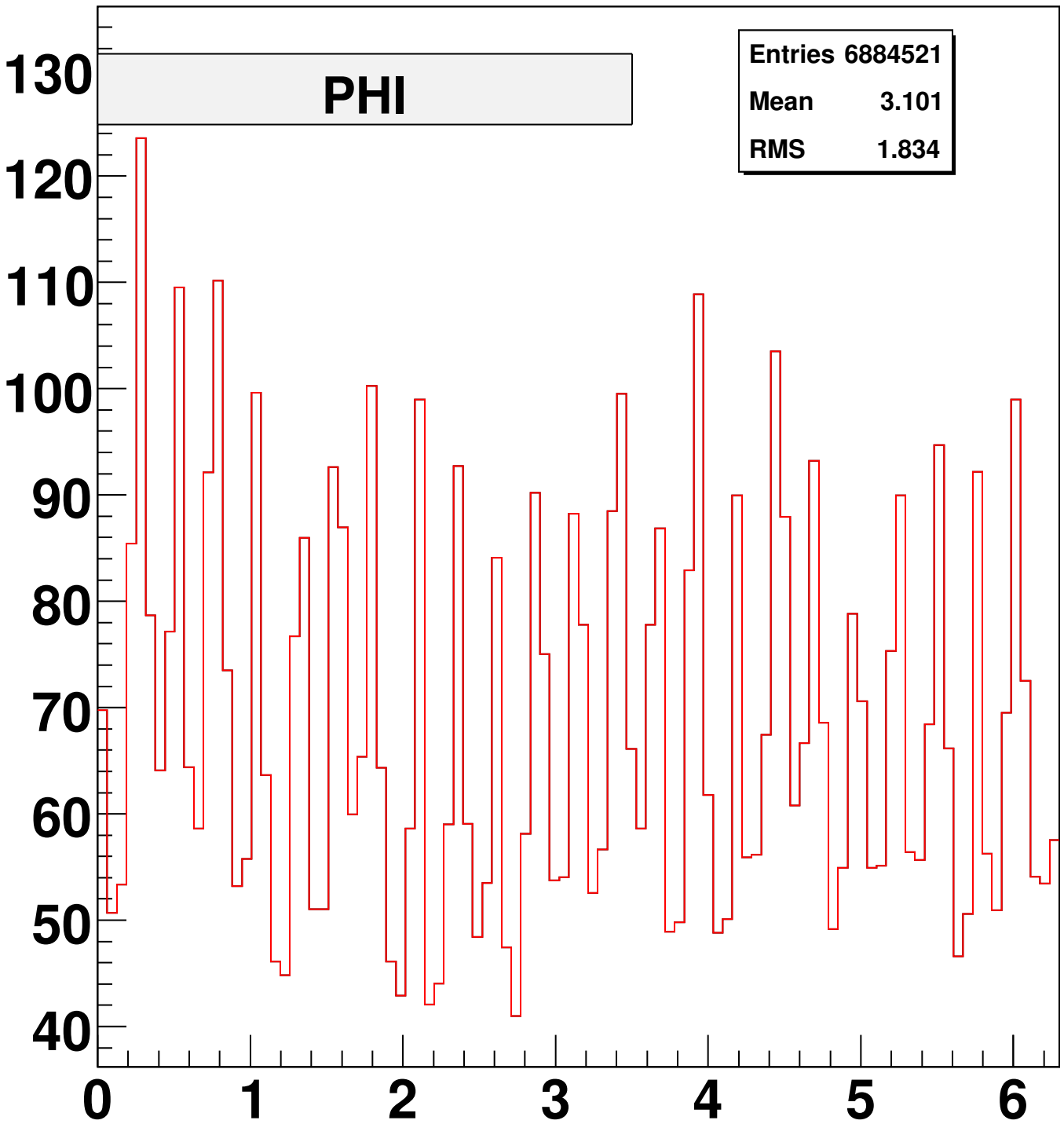

Event Quality Flag (Rate)
Entries 1912
Mean 1.503
RMS 0.08242
10-2
10-3
10-4
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

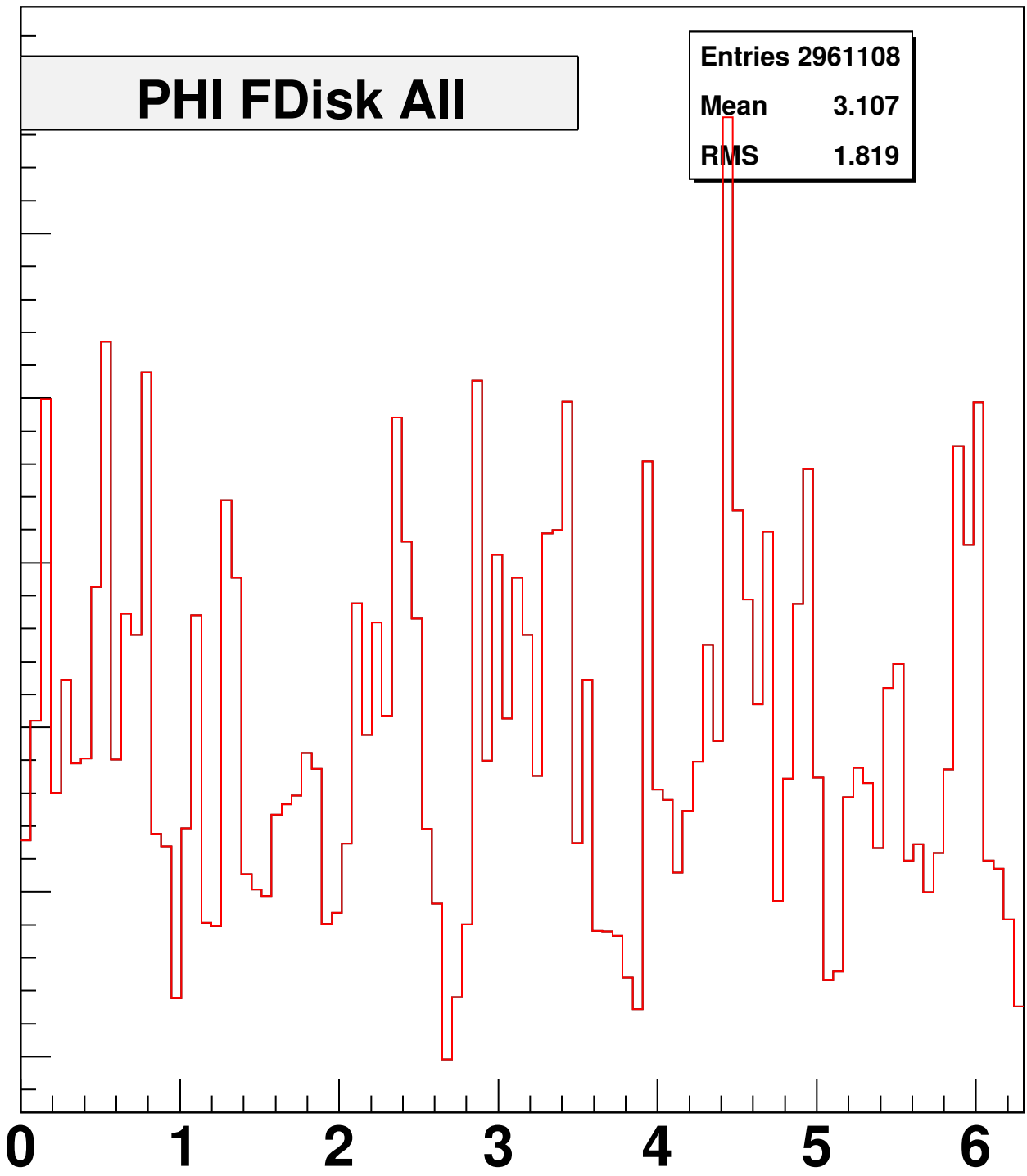


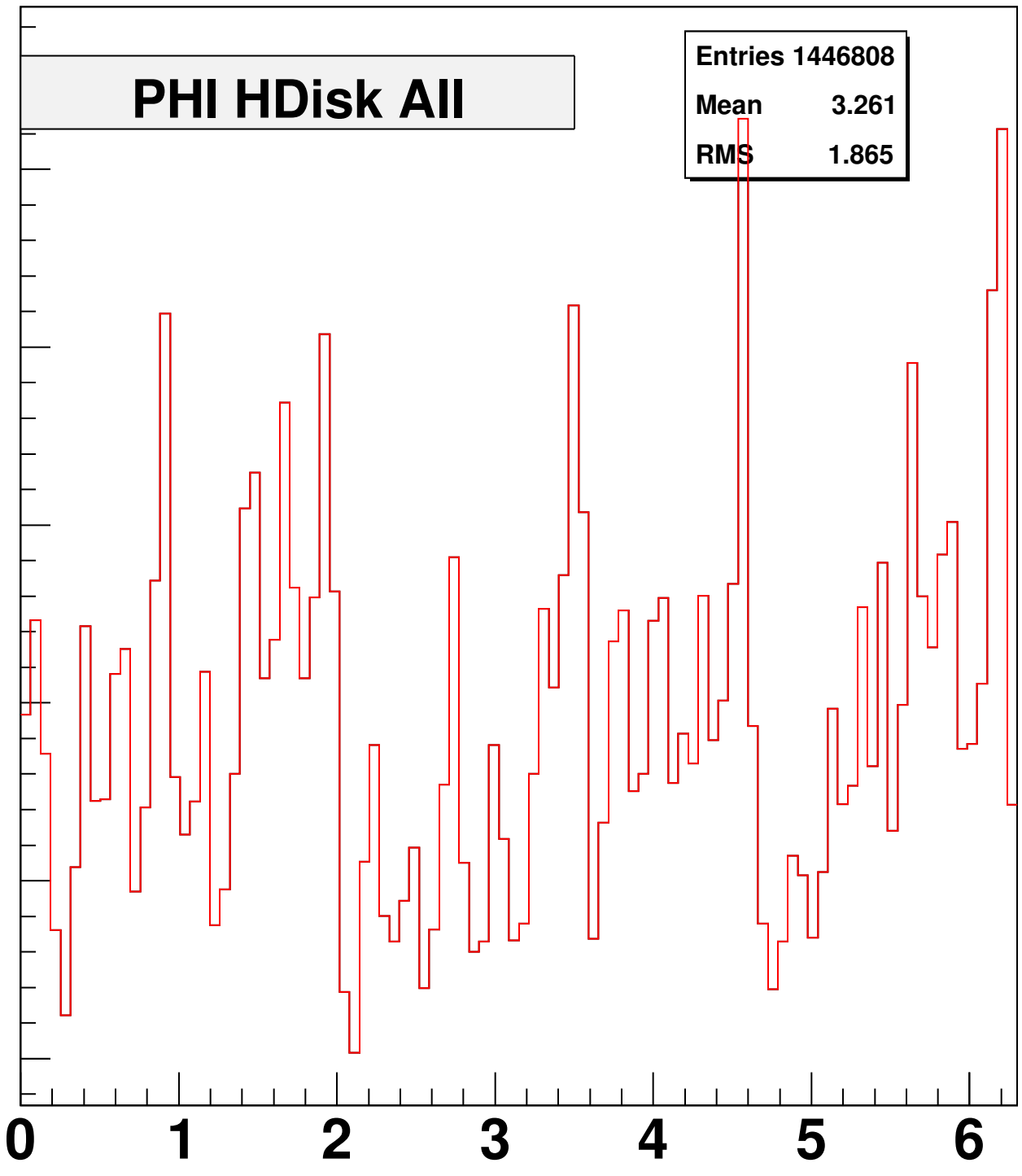
CPS Hit Strips (All Clusters)

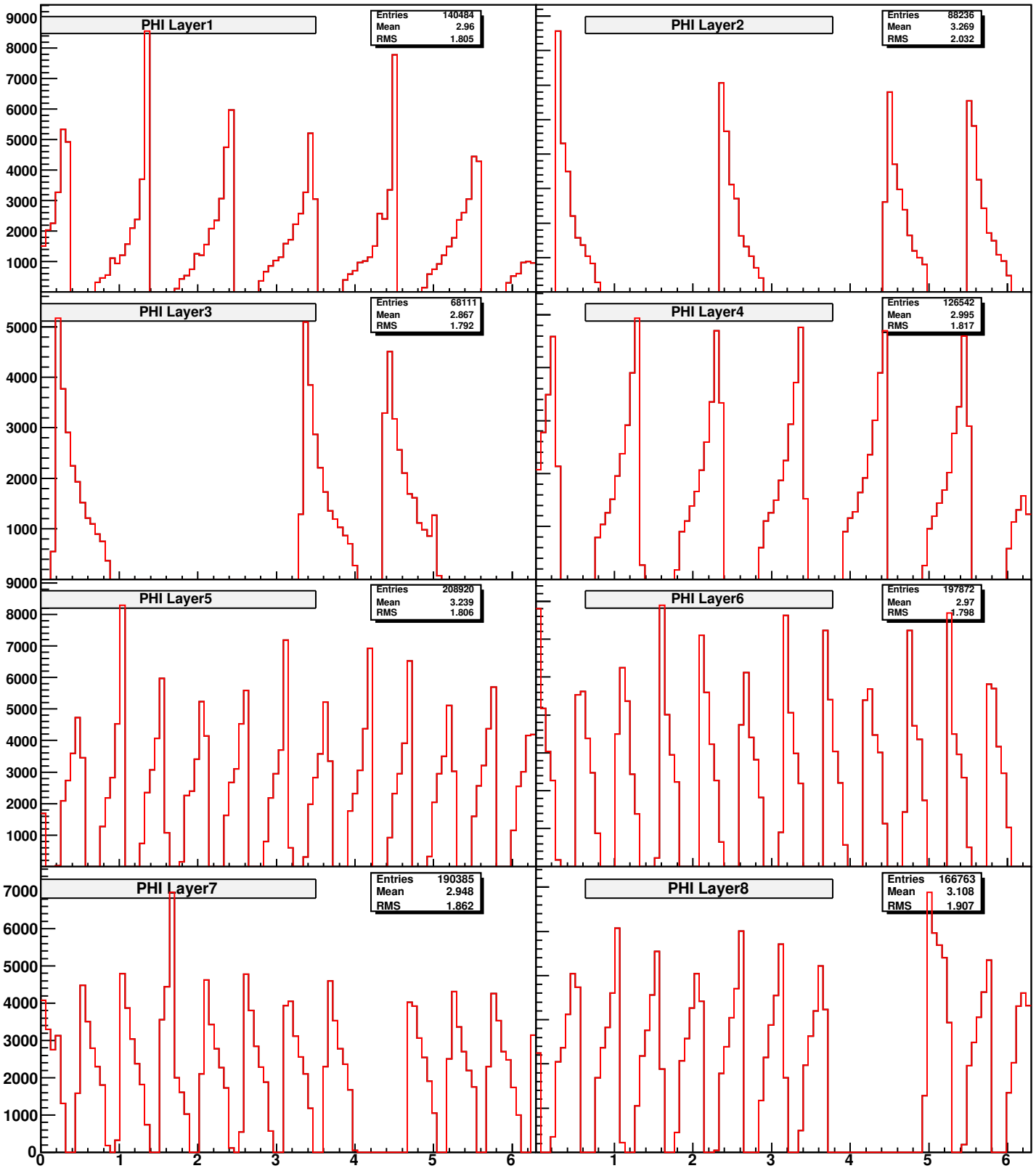


CPS Clusters (All Clusters)

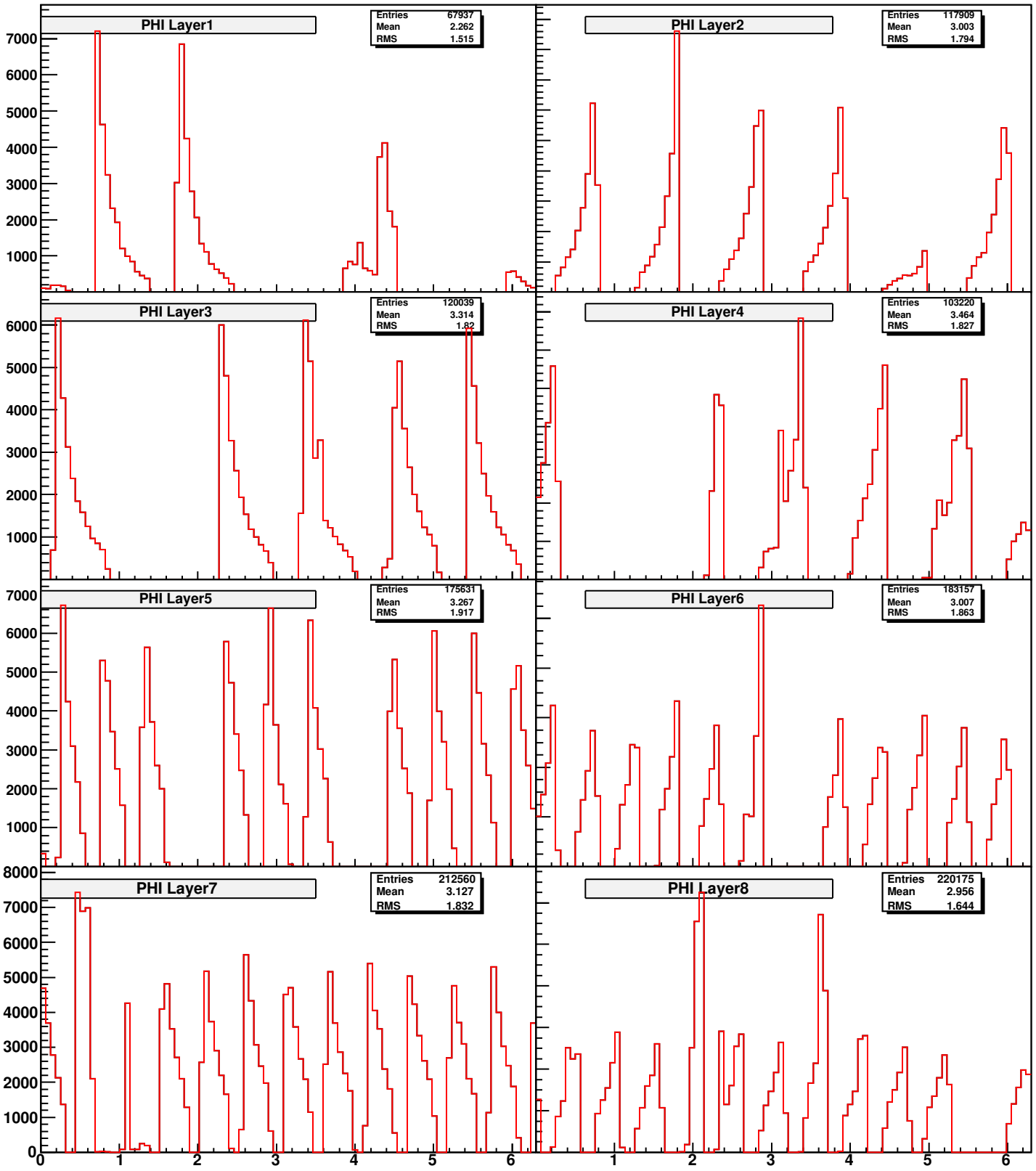

PHI
Entries 6884521
Mean 3.101
RMS 1.834
130
120
110
100
90
80
70
60
50
40
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 2961108
Mean 3.107
RMS 1.819
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

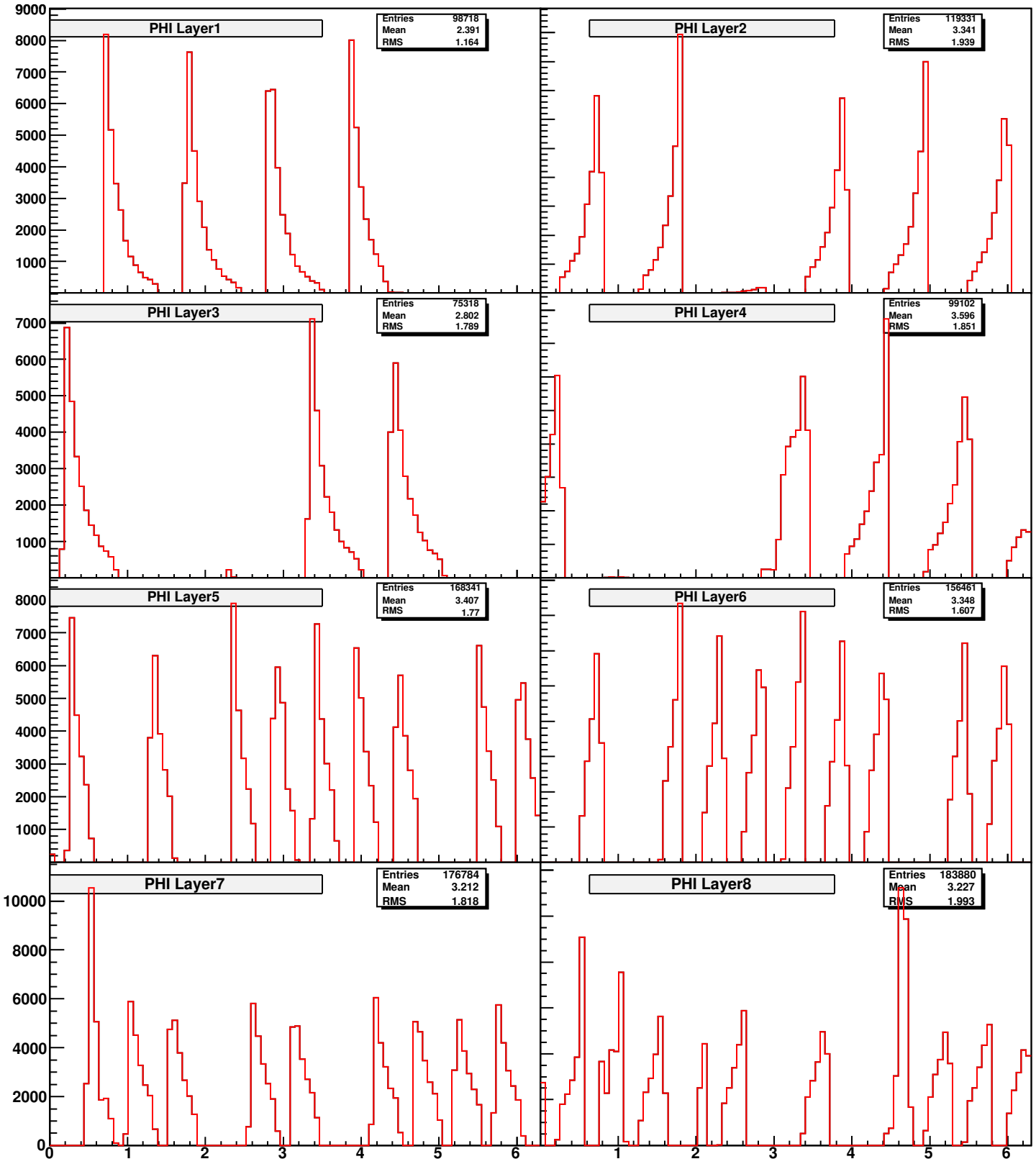

PHI HDisk All
Entries 1446808
Mean 3.261
RMS 1.865
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



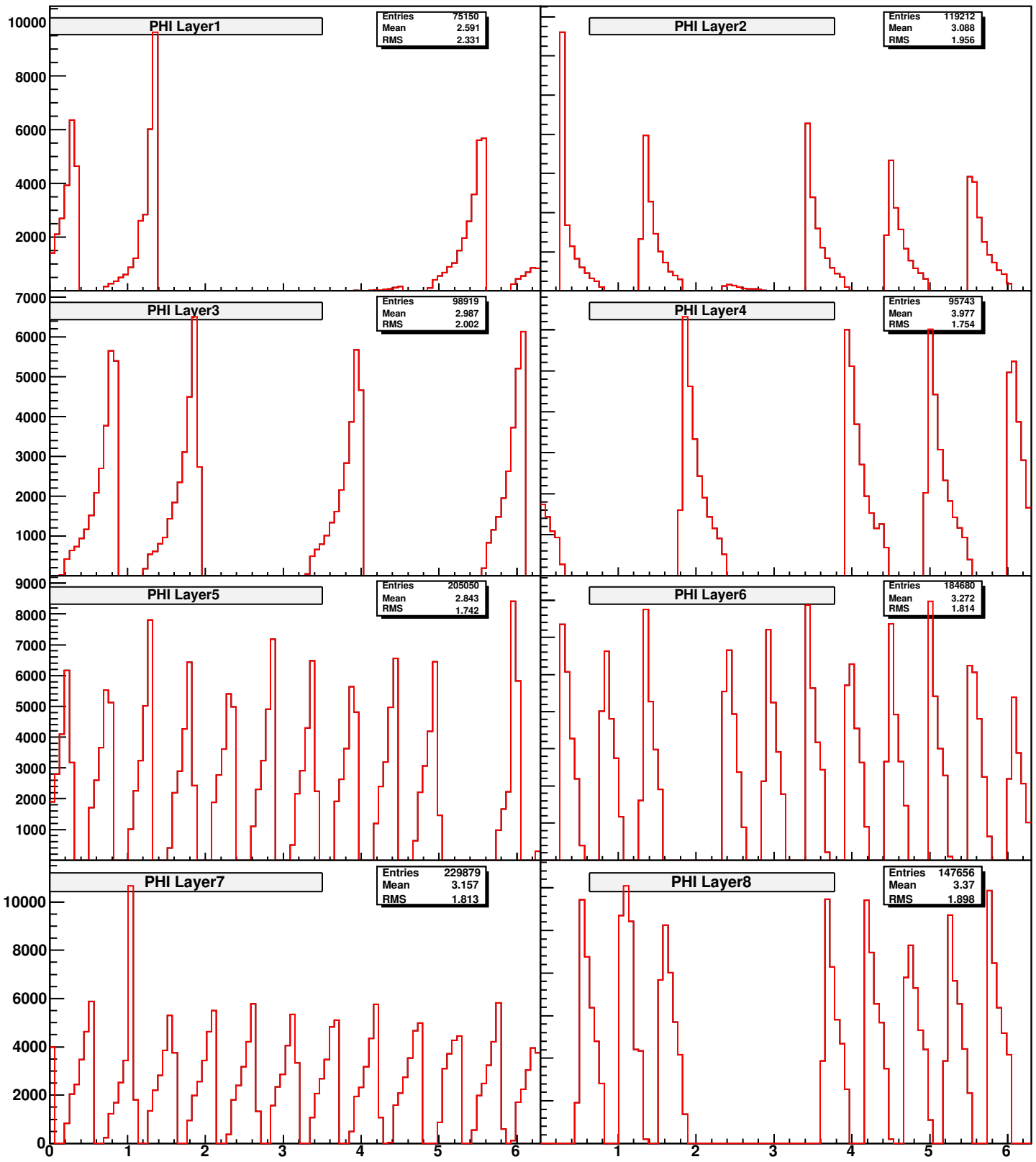
SmtClusters (ClustrBar1)



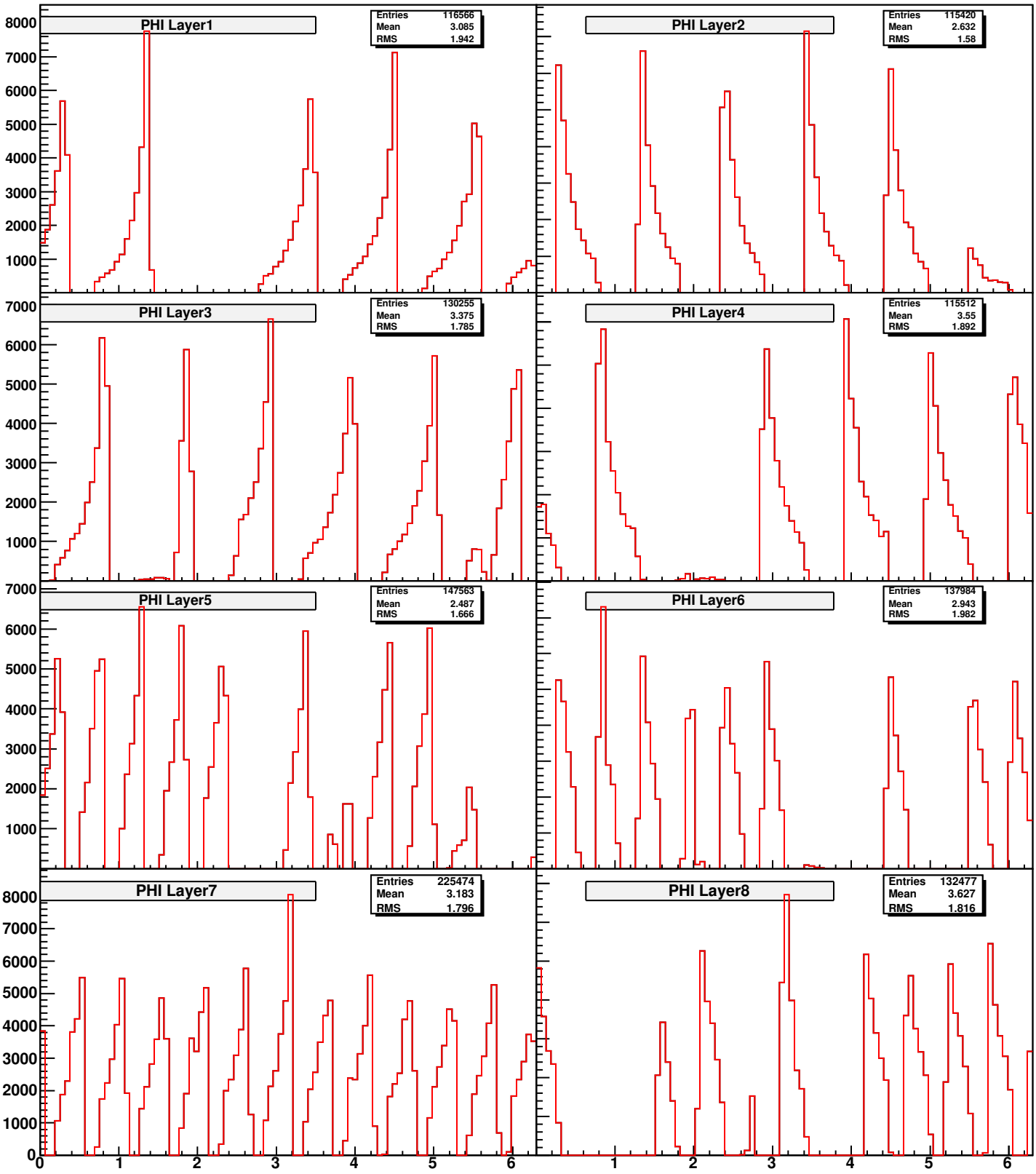
SmtClusters (ClustrBar2)



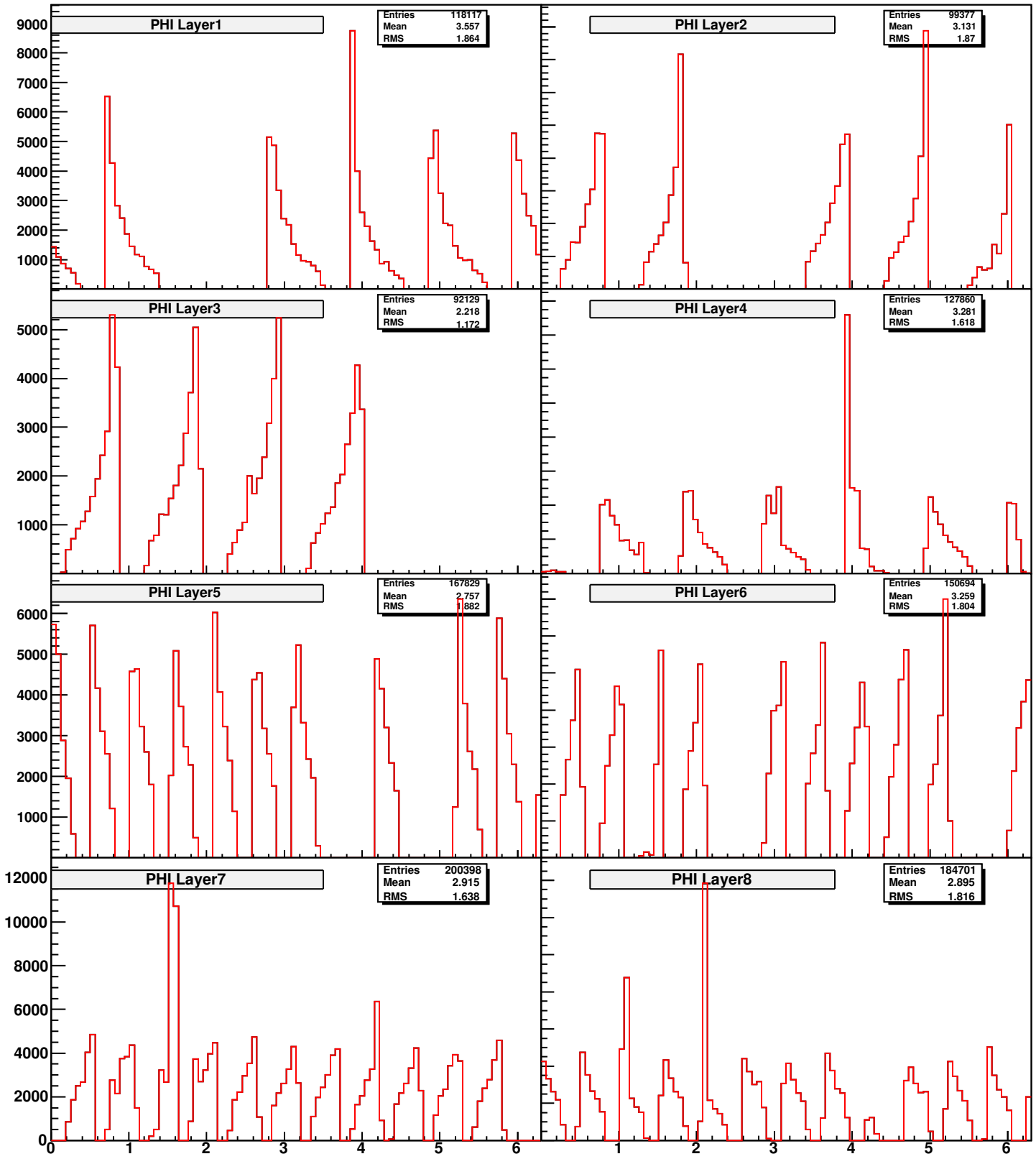
SmtClusters (ClustrBar3)



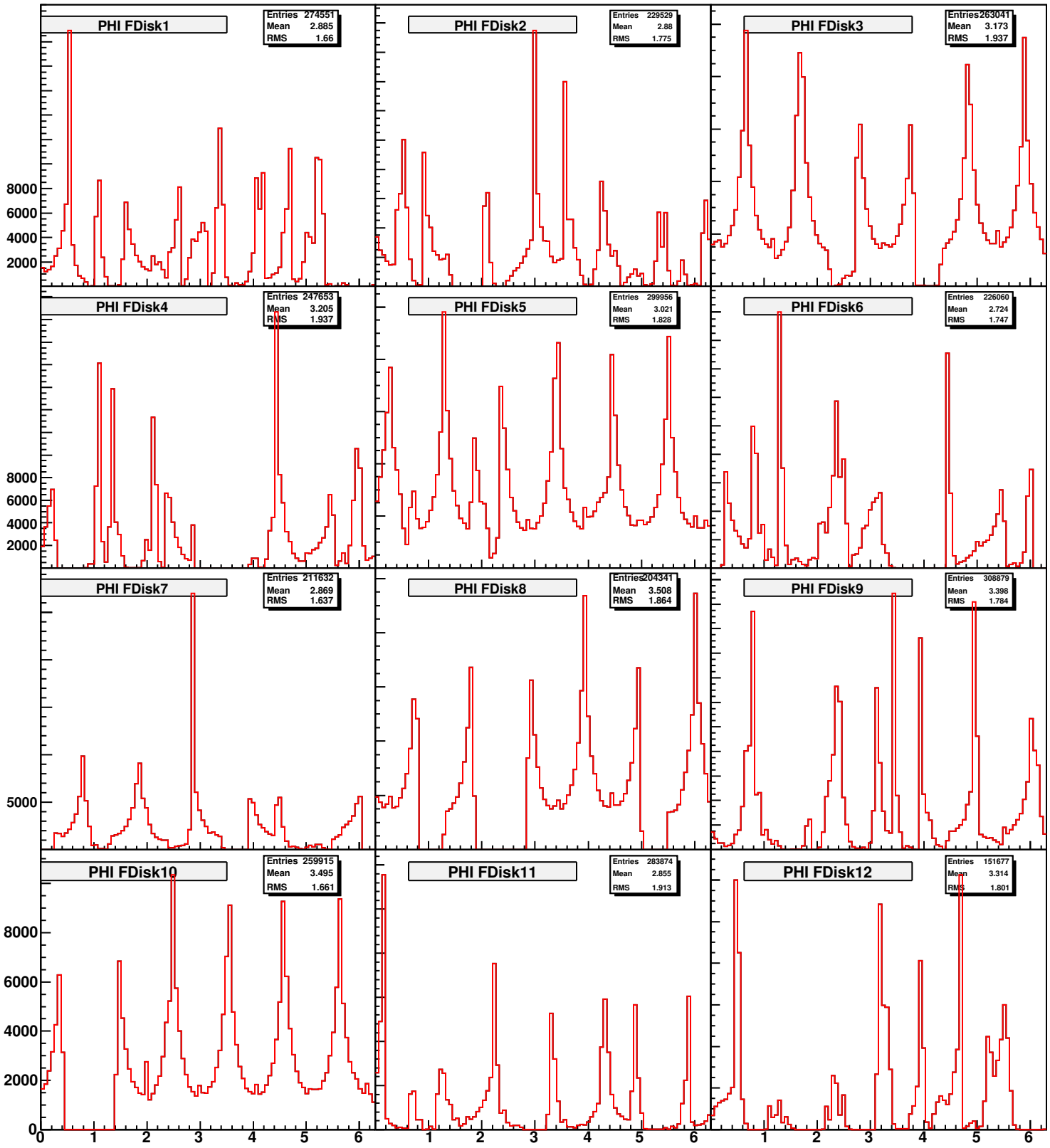
SmtClusters (ClustrBar4)



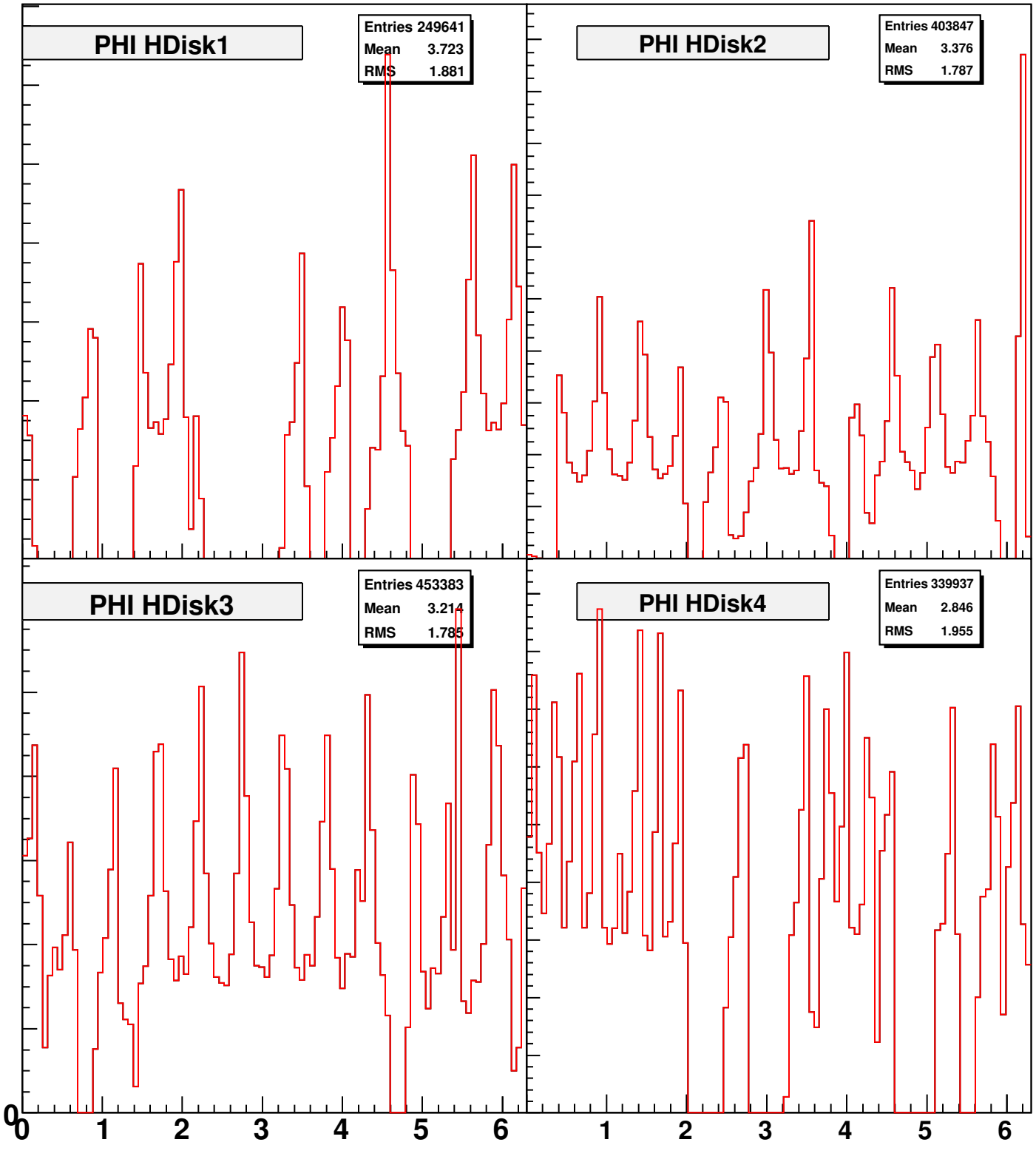
SmtClusters (ClustrBar5)

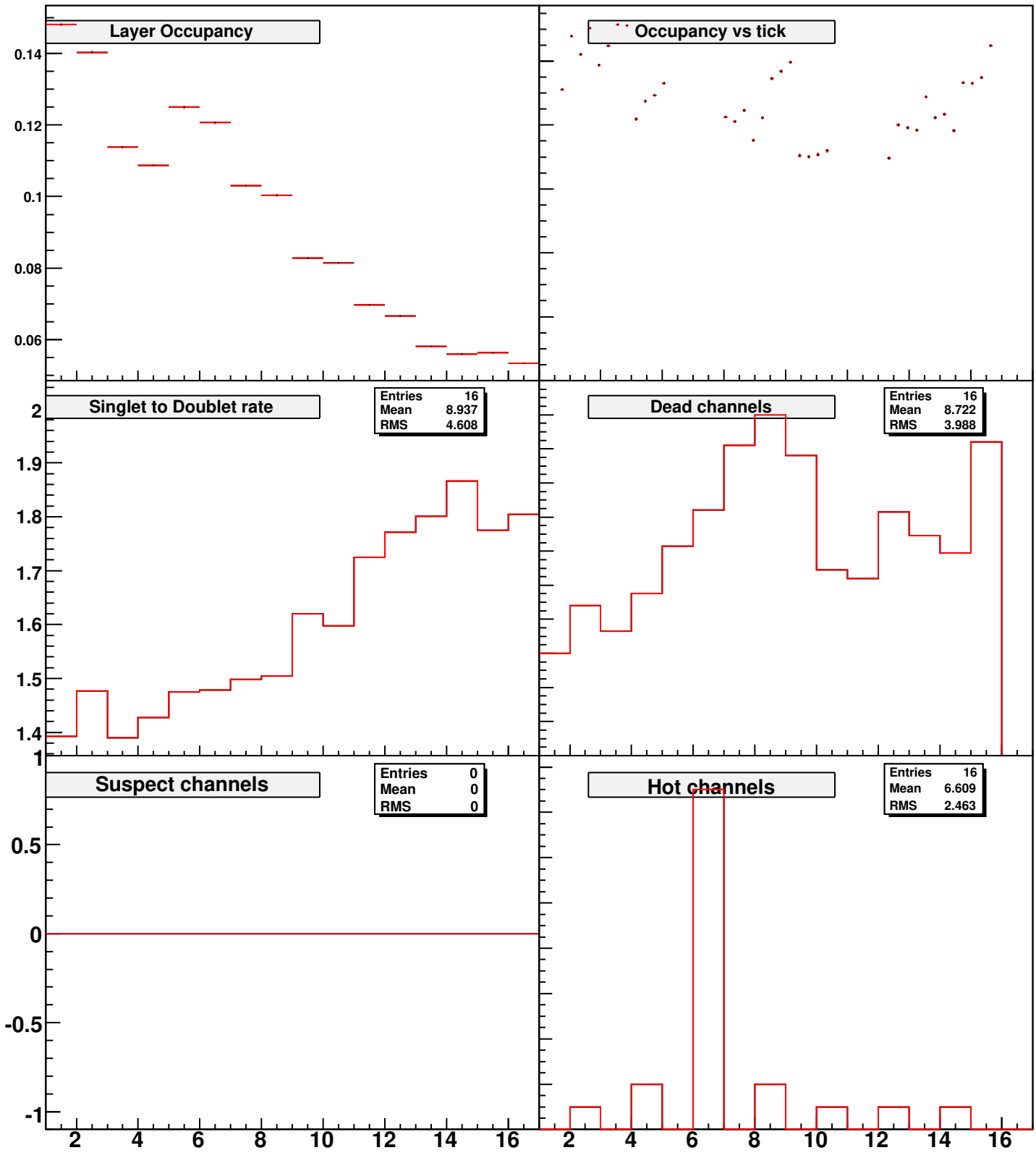


SmtClusters (ClustrBar6)

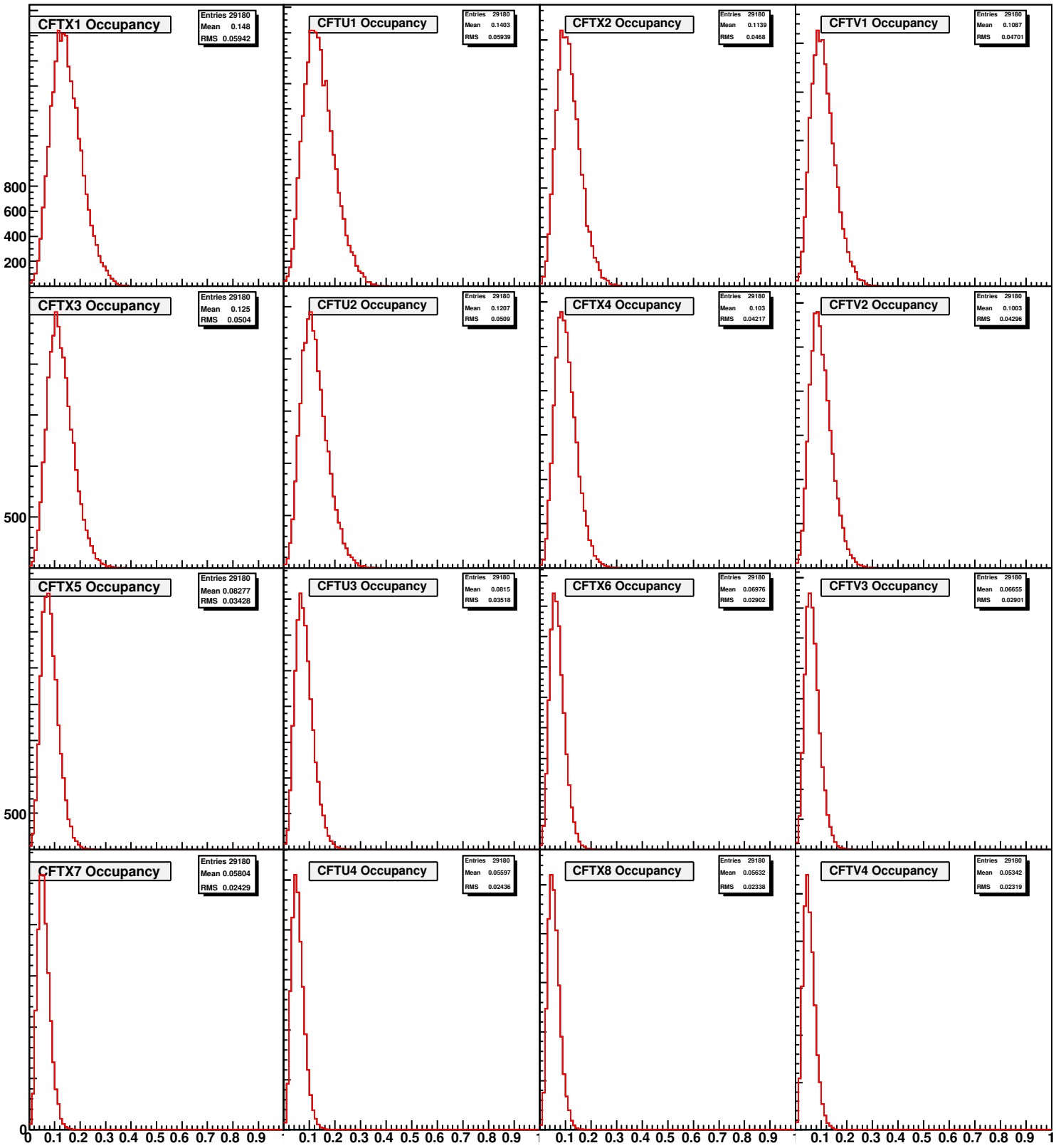


SmtClusters (FDiskClusters)

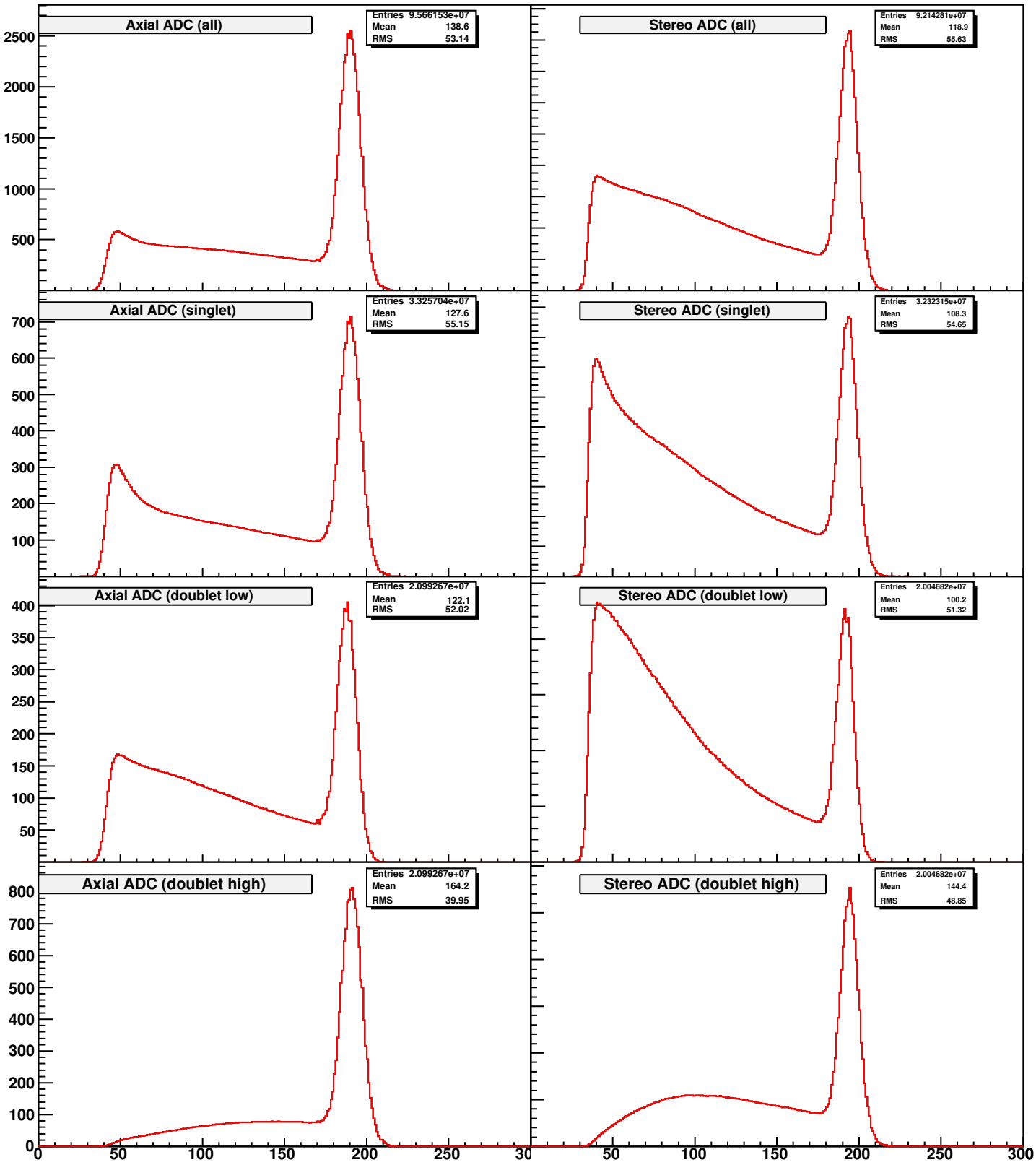

PHI HDisk1
Entries 249641
Mean 3.723
RMS 1.881
PHI HDisk2
Entries 403847
Mean 3.376
RMS 1.787
PHI HDisk3
Entries 453383
Mean 3.214
RMS 1.785
PHI HDisk4
Entries 339937
Mean 2.846
RMS 1.955
0
0
1
2
3
4
5
6
1
2
3
4
5
6
SmtClusters (HDiskClusters)



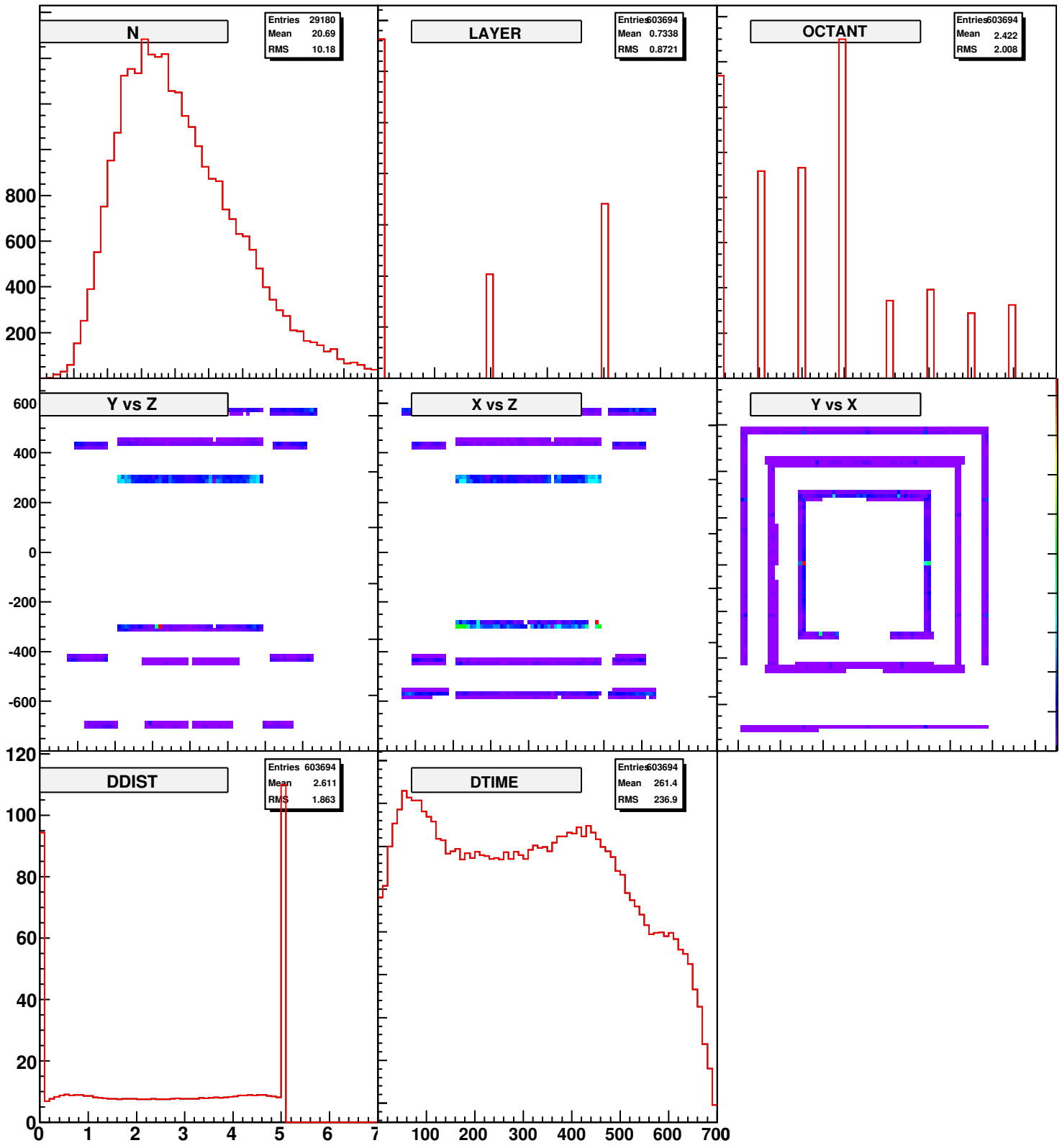
CFT Summary (All Clusters)



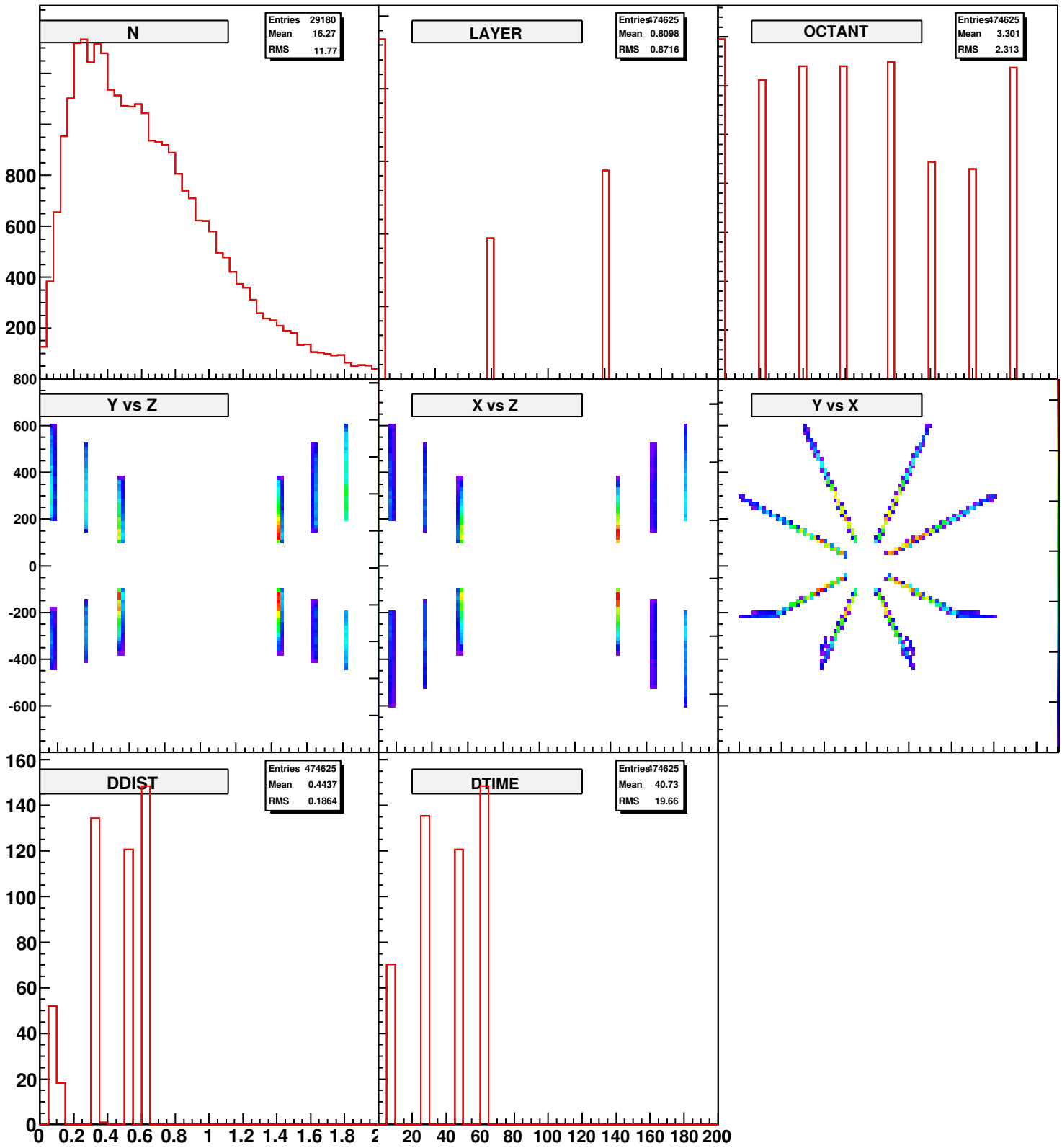
CFT Occupancy (All Clusters)



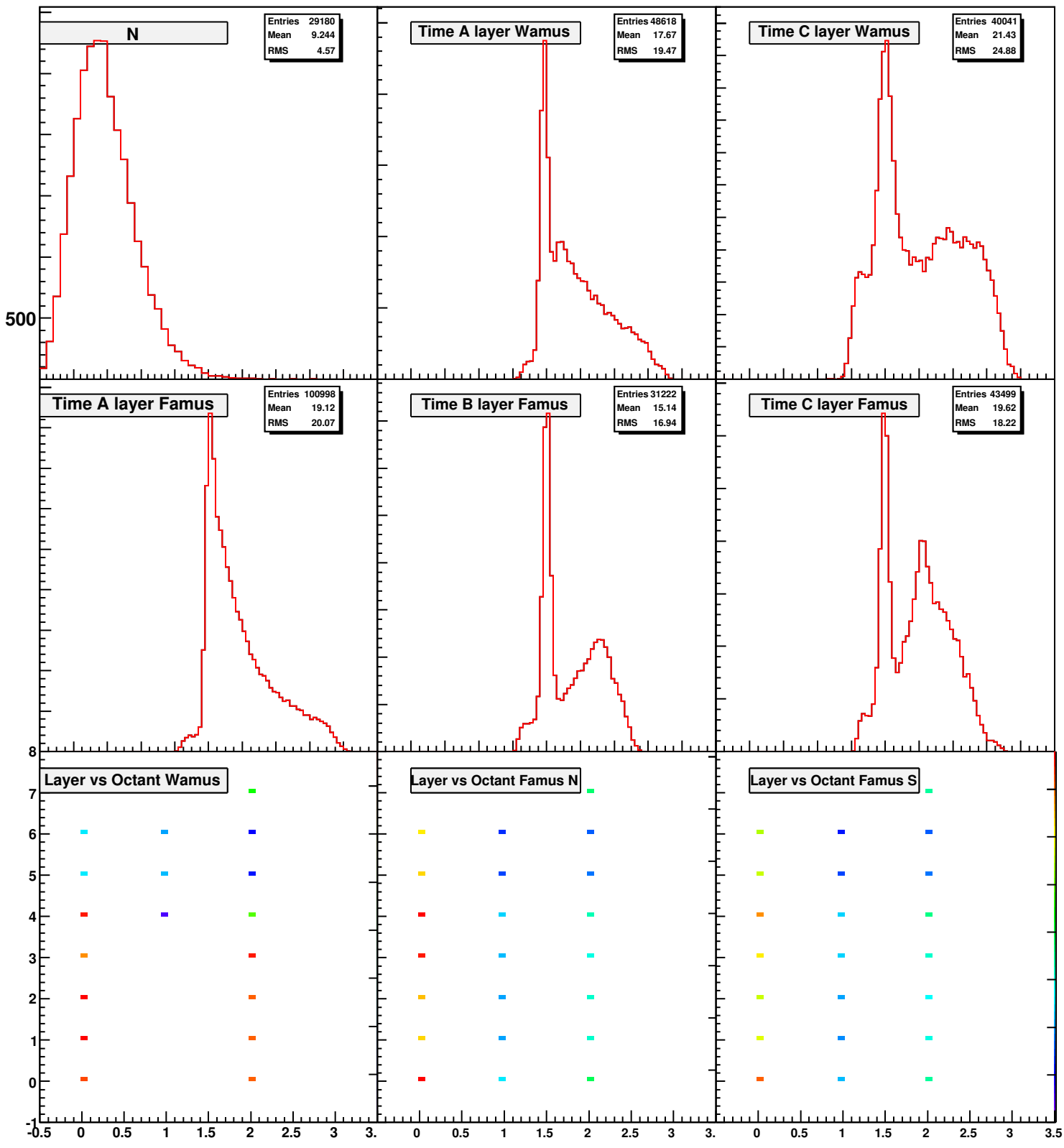
CFT ADC Summary (All Clusters)


N
Entries 29180
Mean 20.69
RMS 10.18
LAYER
Entries 603694
Mean 0.7338
RMS 0.8721
OCTANT
Entries 603694
Mean 2.422
RMS 2.008
Y vs Z
X vs Z
Y vs X
DDIST
Entries 603694
Mean 2.611
RMS 1.863
DTIME
Entries 603694
Mean 261.4
RMS 236.9

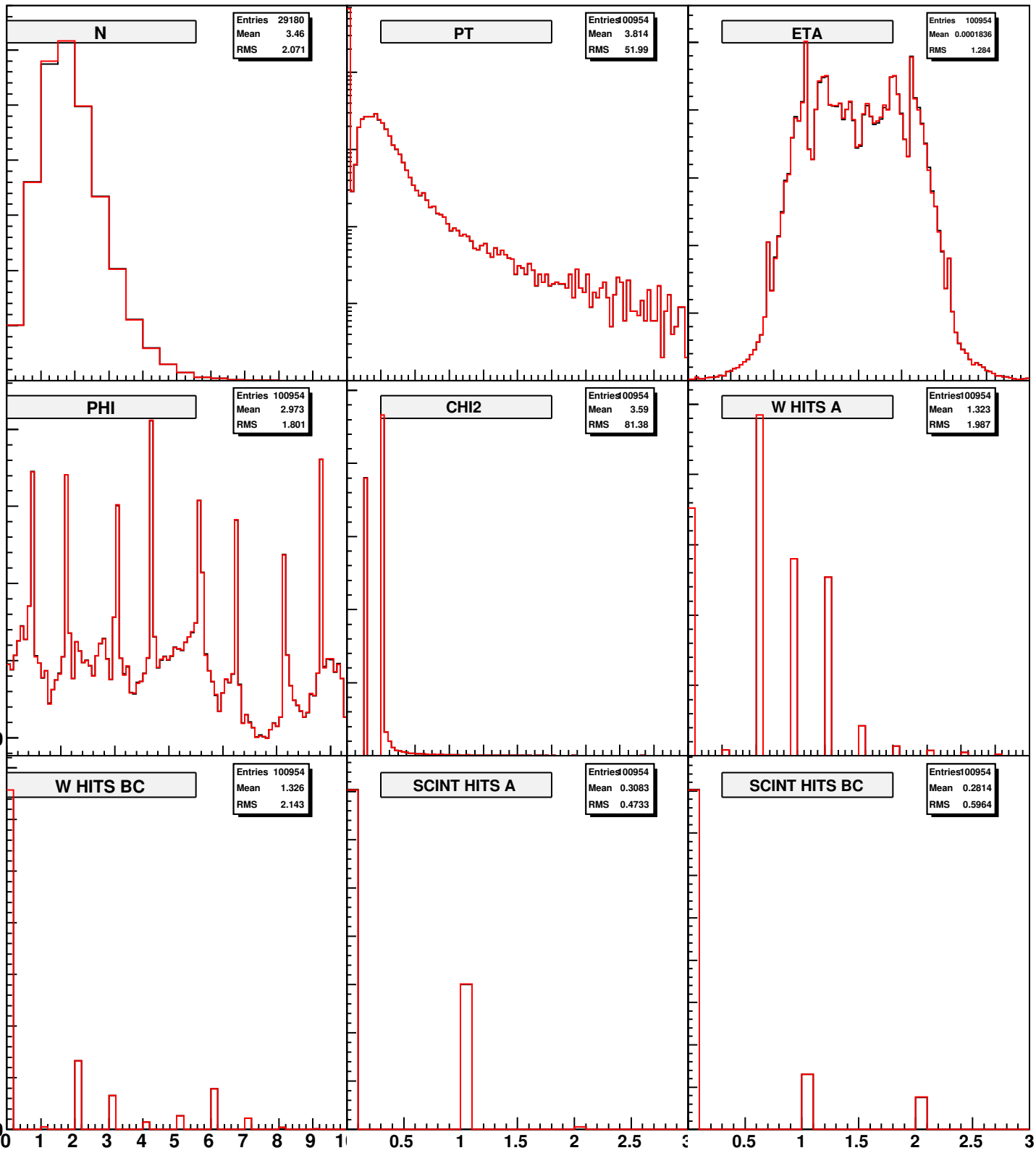
MuonPDT (All)


N
Entries 29180
Mean 16.27
RMS 11.77
LAYER
Entries 474625
Mean 0.8098
RMS 0.8716
OCTANT
Entries 474625
Mean 3.301
RMS 2.313
Y vs Z
X vs Z
Y vs X
DDIST
Entries 474625
Mean 0.4437
RMS 0.1864
DTIME
Entries 474625
Mean 40.73
RMS 19.66

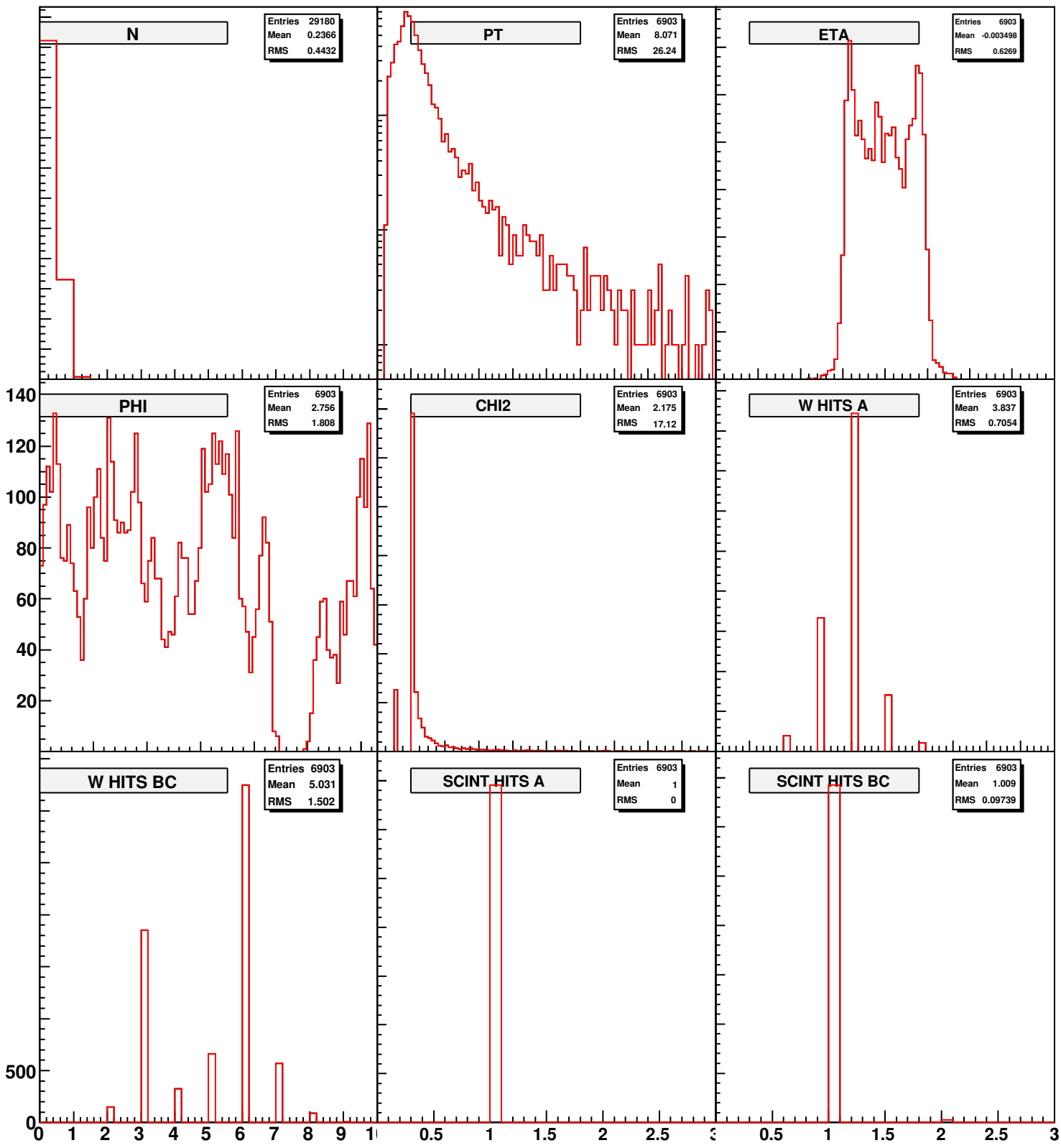
MuonMDT (All)


N
Entries 29180
Mean 9.244
RMS 4.57
Time A layer Wamus
Entries 48618
Mean 17.67
RMS 19.47
Time C layer Wamus
Entries 40041
Mean 21.43
RMS 24.88
500
Time A layer Famus
Entries 100998
Mean 19.12
RMS 20.07
Time B layer Famus
Entries 31222
Mean 15.14
RMS 16.94
Time C layer Famus
Entries 43499
Mean 19.62
RMS 18.22
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

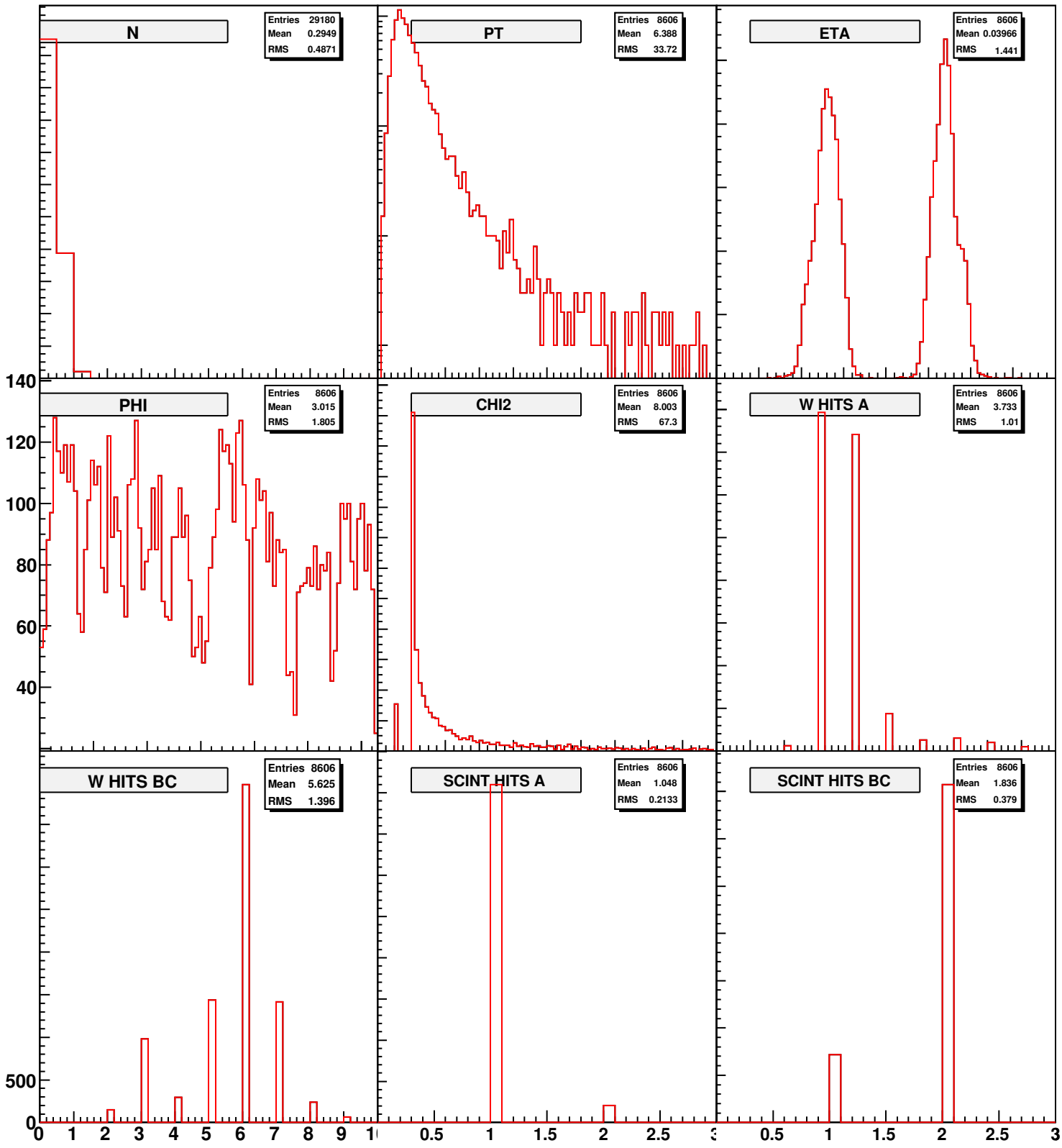
MuonMSC (All)



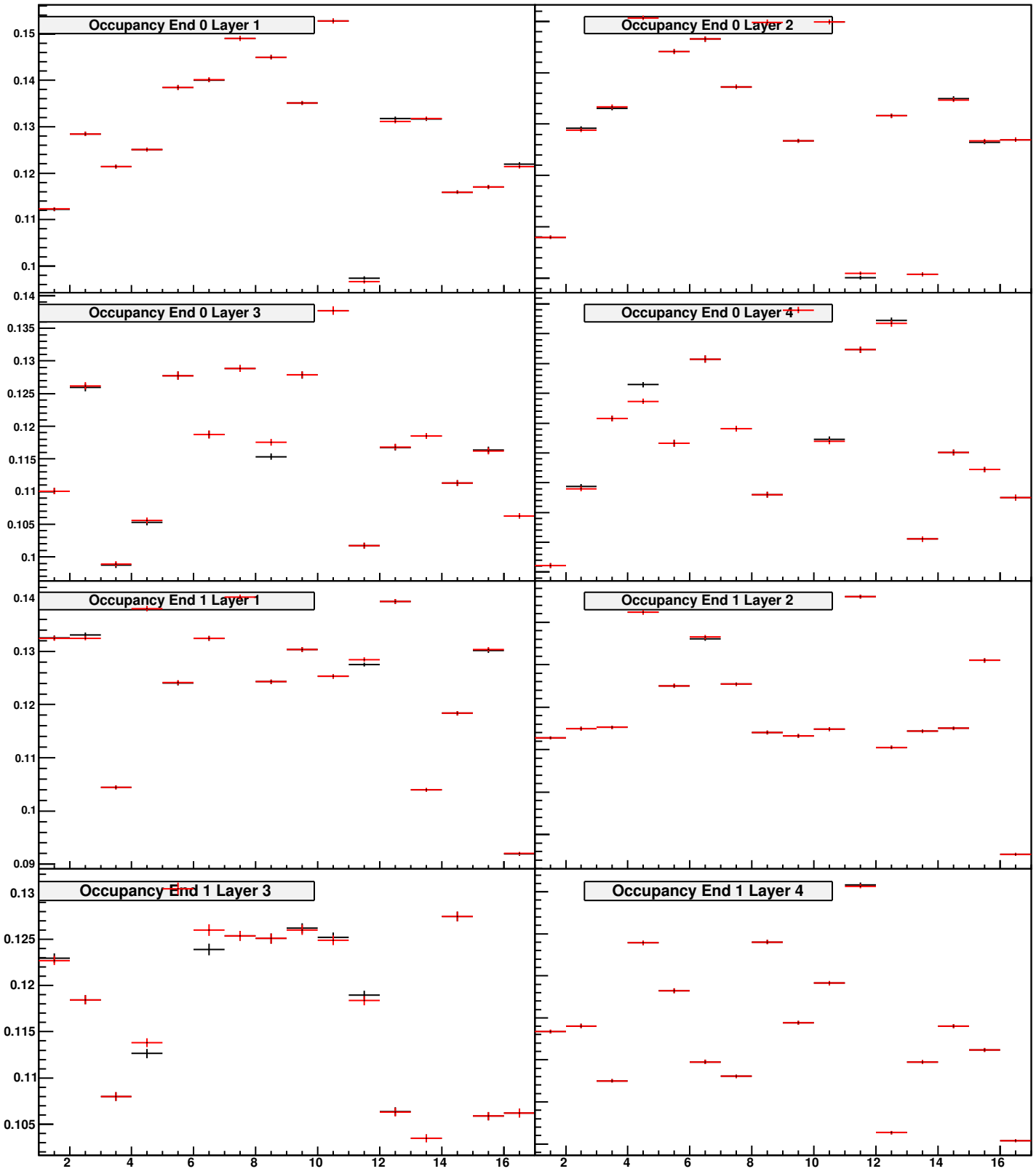
Muon Local Tracks (All)



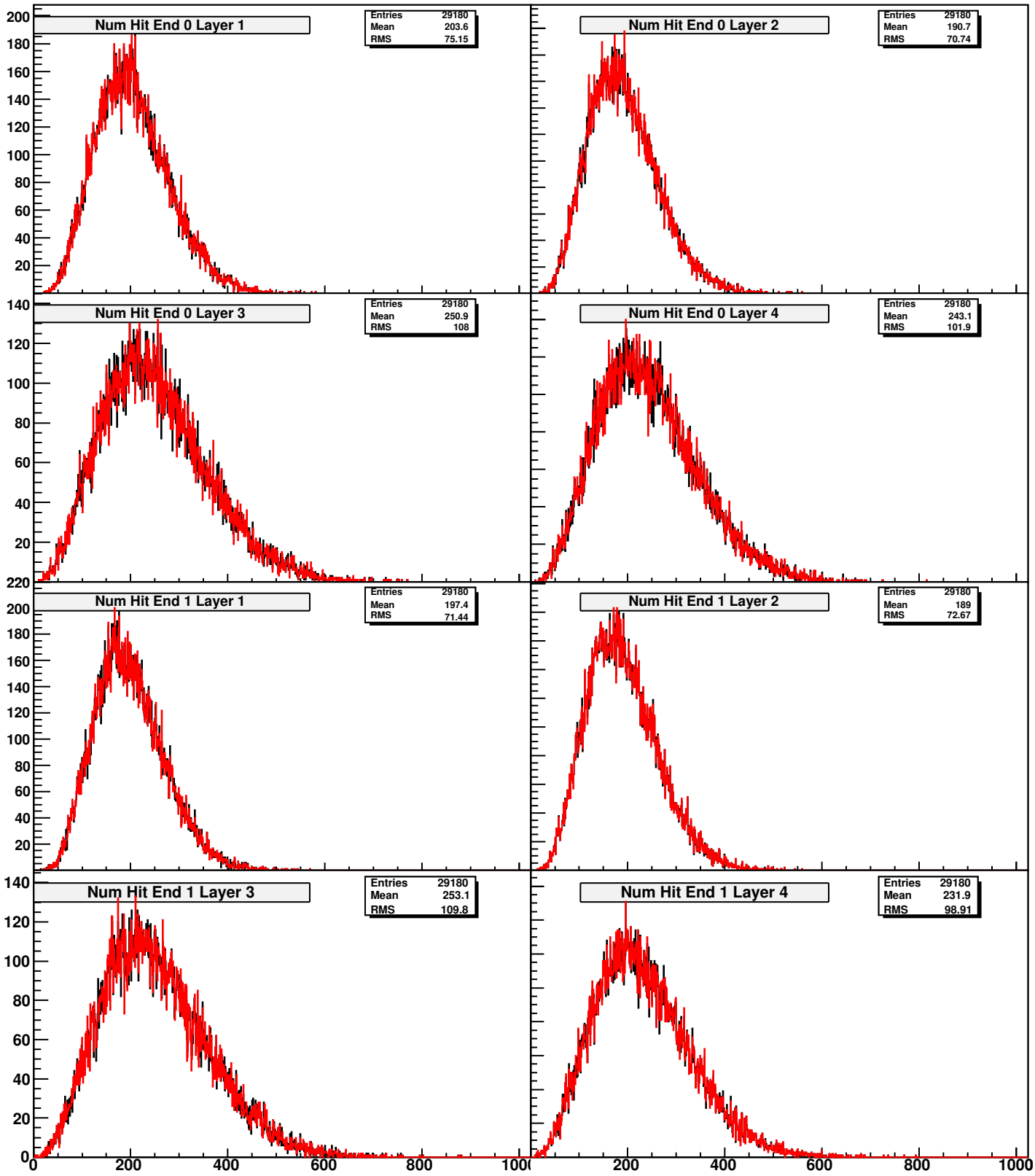
Muon Local Tracks (MediumWamus)



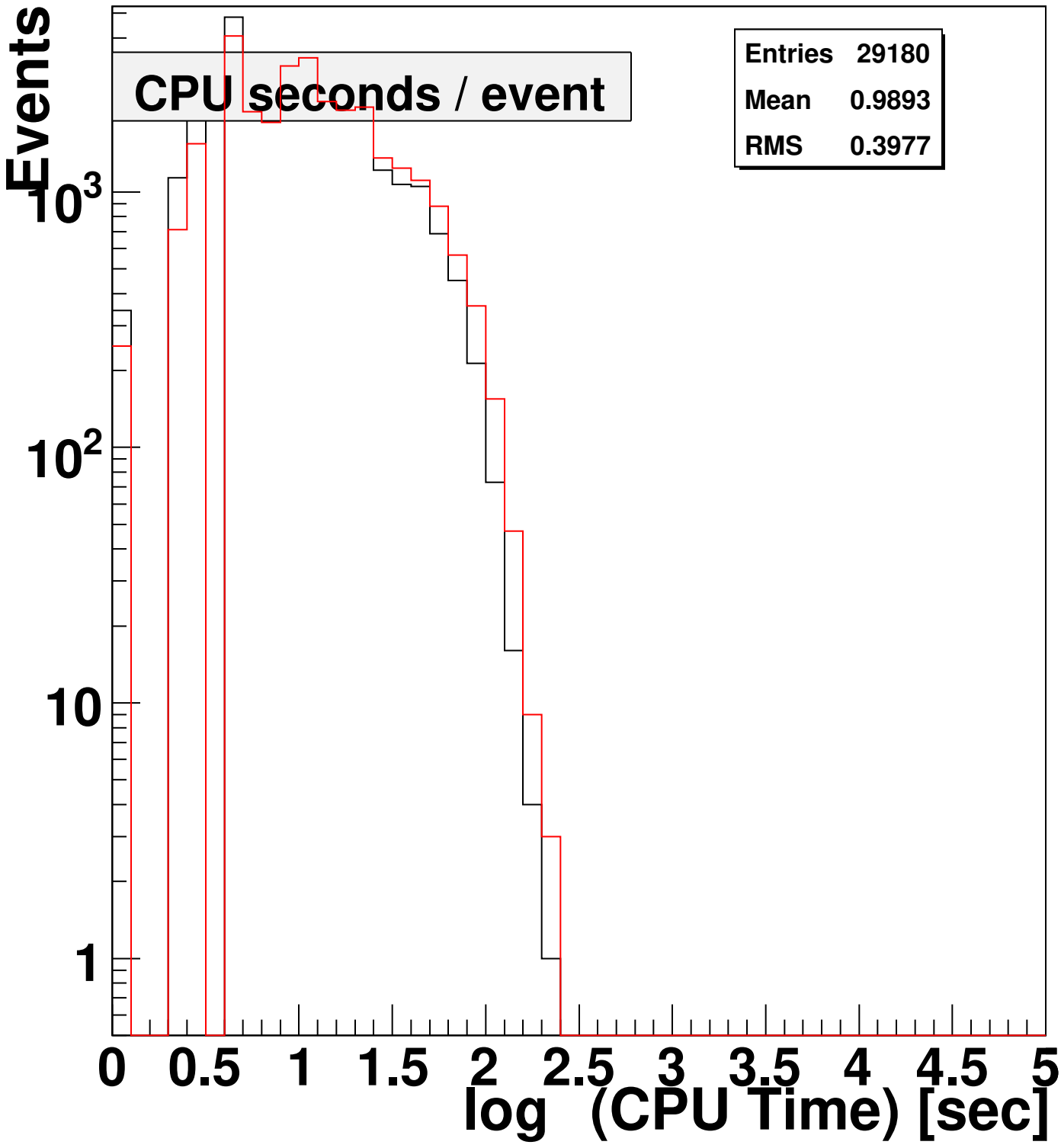
Muon Local Tracks (MediumFamus)



FPS Hit Occupancy (All)



FPS Number of Hits (All)



RECO Performance (Timing)