# p200801_r234706.root
# p201101-cftfix_r237403_014.root


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## RecoCert_Plots (Index)

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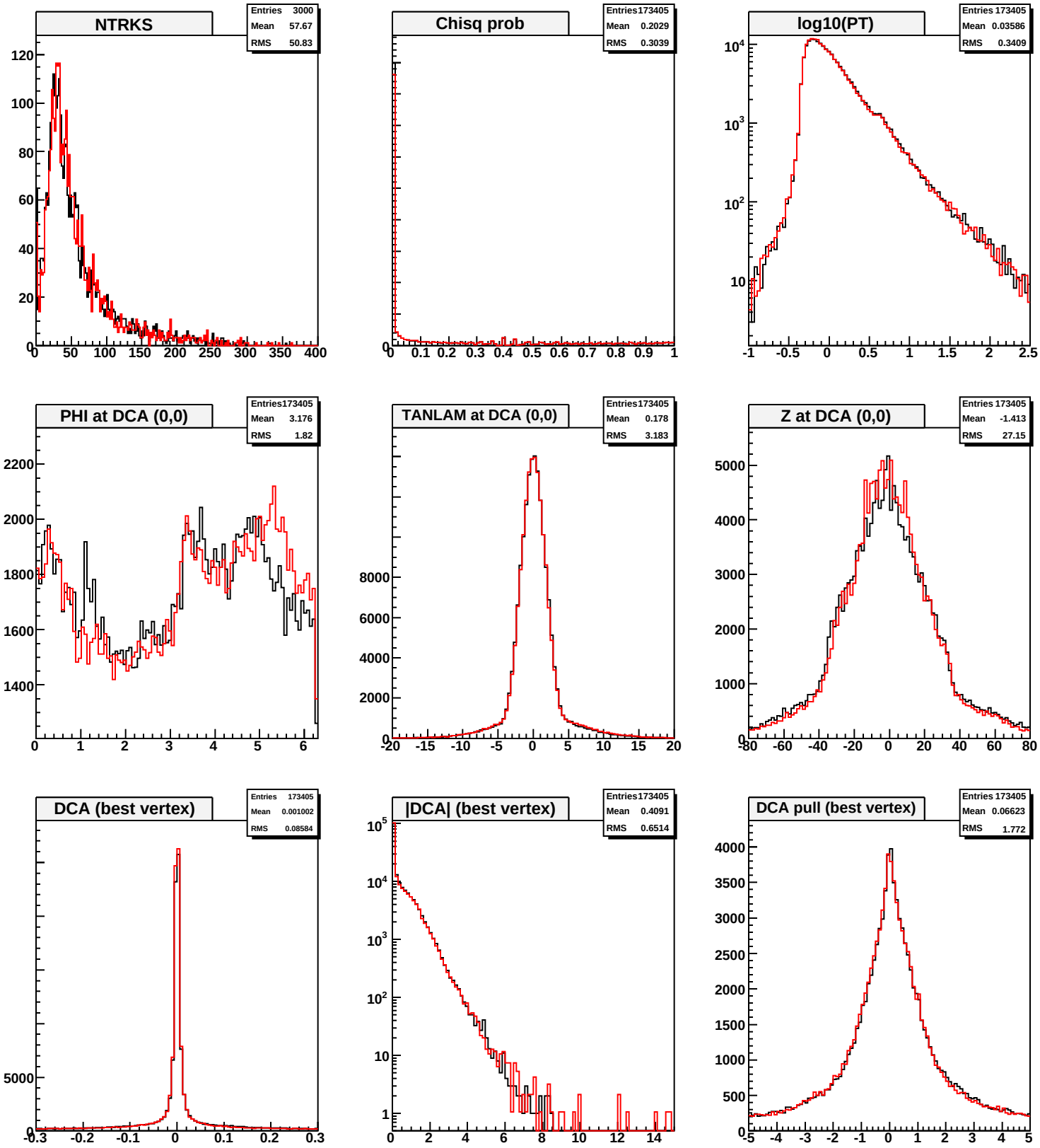
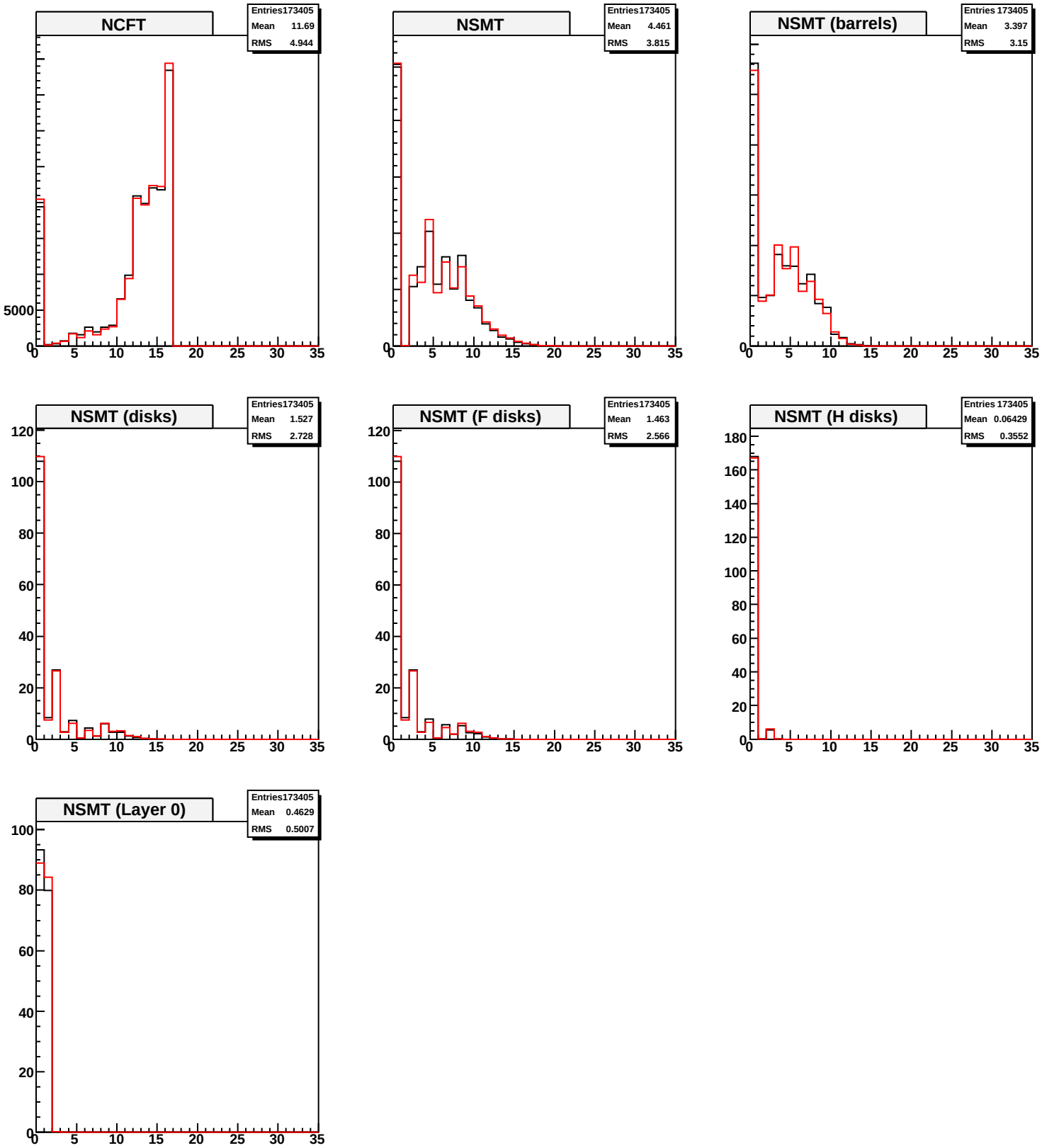
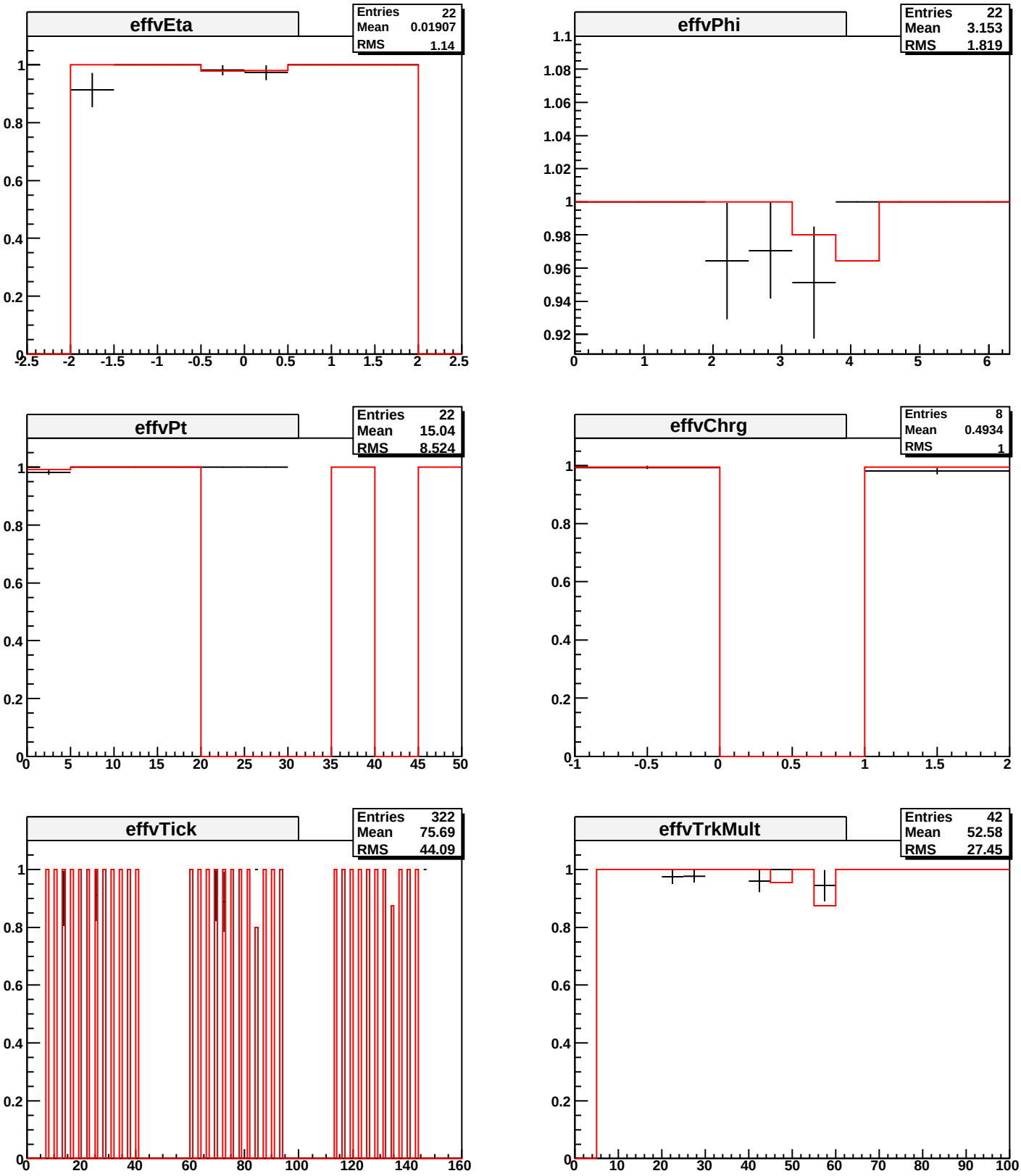
# RecoCert_Plots (Index 2)


NTRKS
Entries 3000
Mean 57.67
RMS 50.83
Chisq prob
Entries 173405
Mean 0.2029
RMS 0.3039
log10(PT)
Entries 173405
Mean 0.03586
RMS 0.3409
PHI at DCA (0,0)
Entries 173405
Mean 3.176
RMS 1.82
TANLAM at DCA (0,0)
Entries 173405
Mean 0.178
RMS 3.183
Z at DCA (0,0)
Entries 173405
Mean -1.413
RMS 27.15
DCA (best vertex)
Entries 173405
Mean 0.001002
RMS 0.08584
|DCA| (best vertex)
Entries 173405
Mean 0.4091
RMS 0.6514
DCA pull (best vertex)
Entries 173405
Mean 0.06623
RMS 1.772

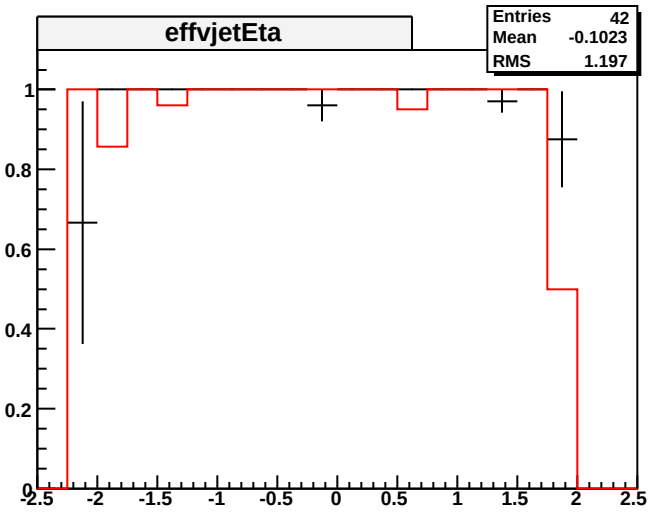
# Tracks (All)

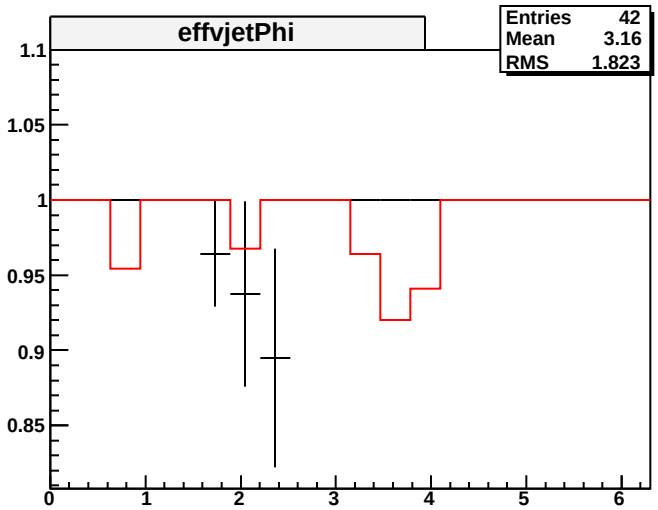


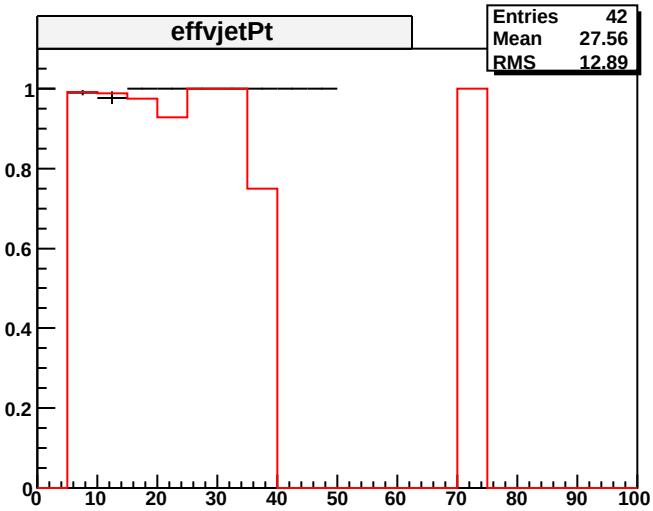

# Track Hits (All)



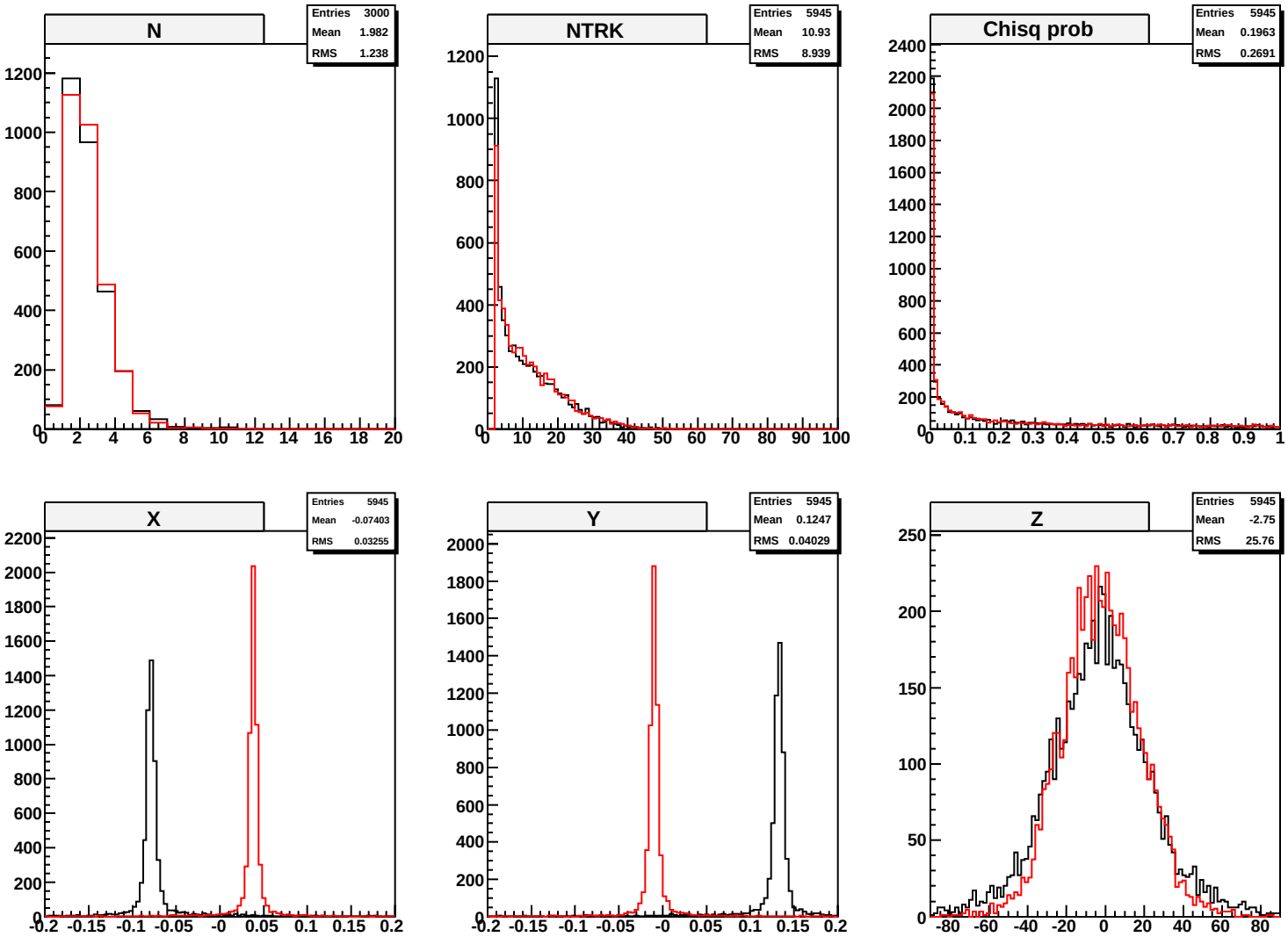

# Tracking (Efficiency-Isolated)



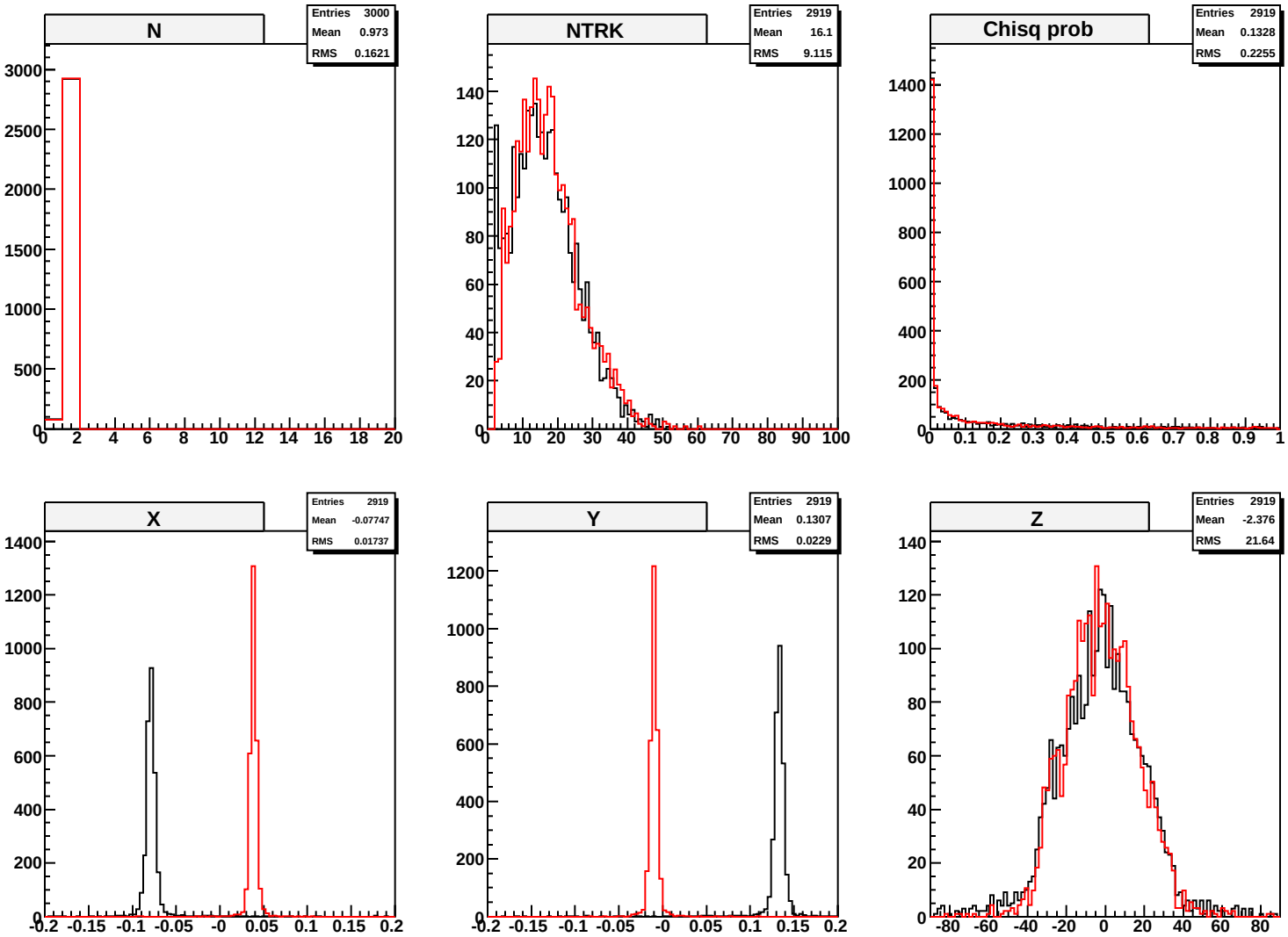



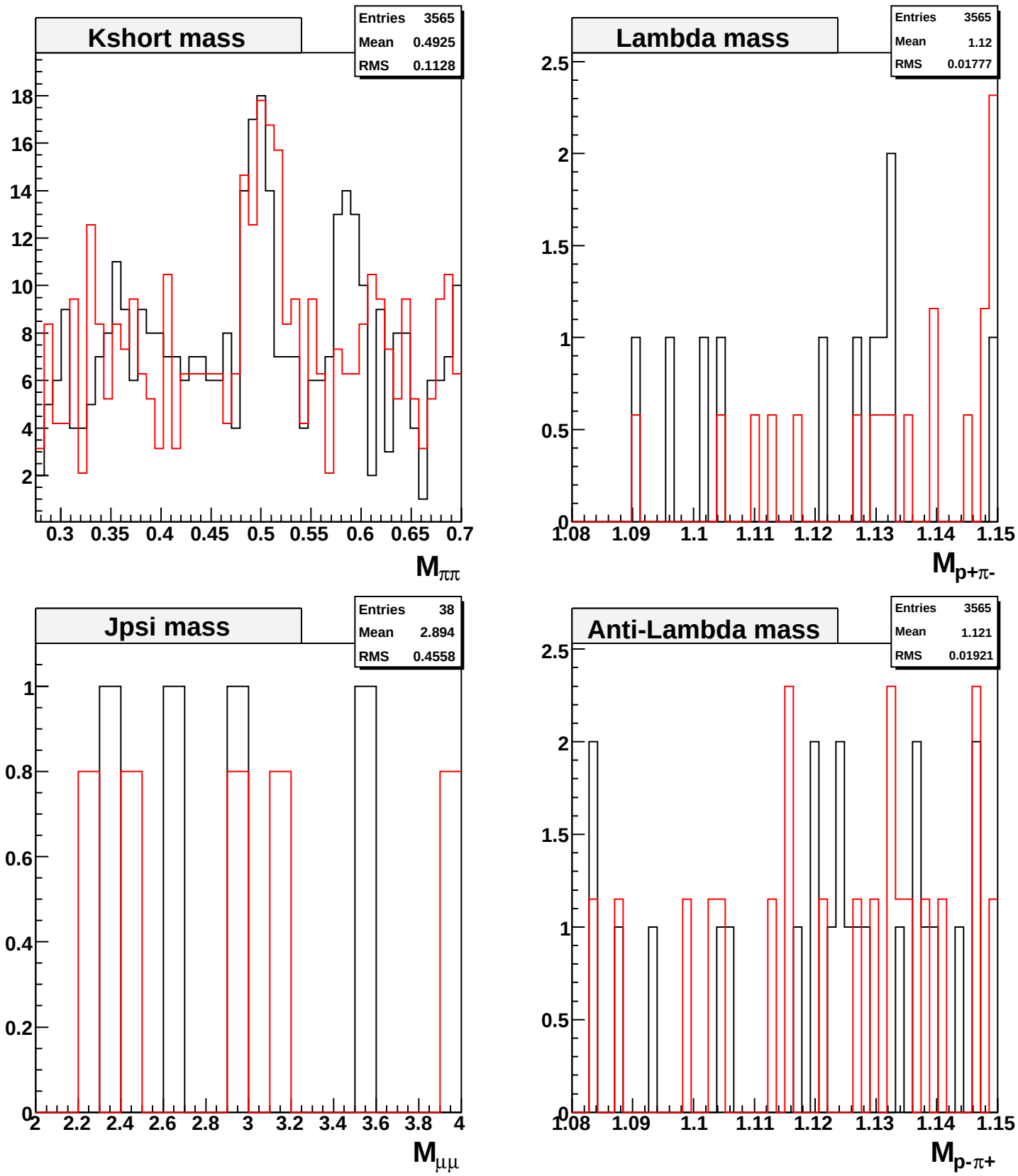

# Tracking (Efficiency-InJets)



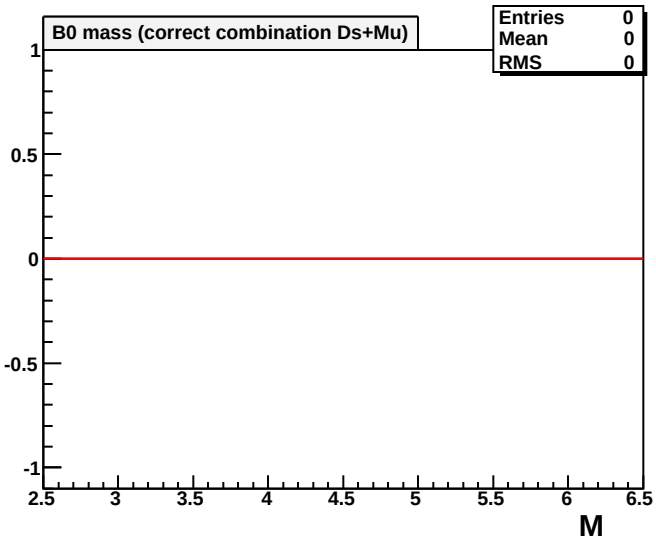

# Vertices (Primary - all candidates)

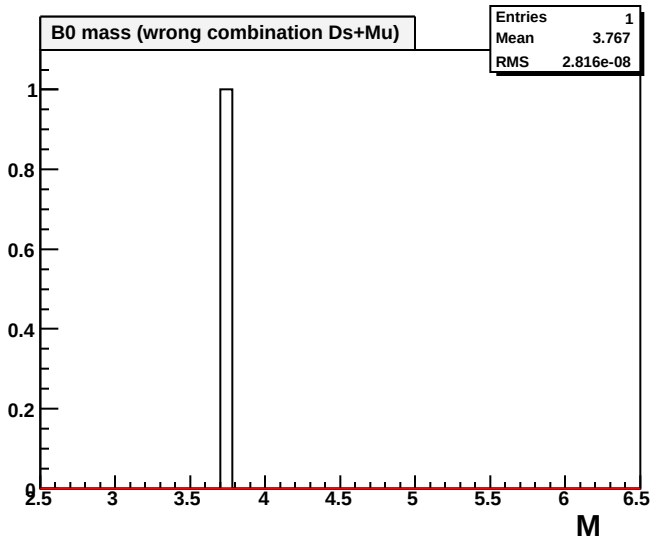


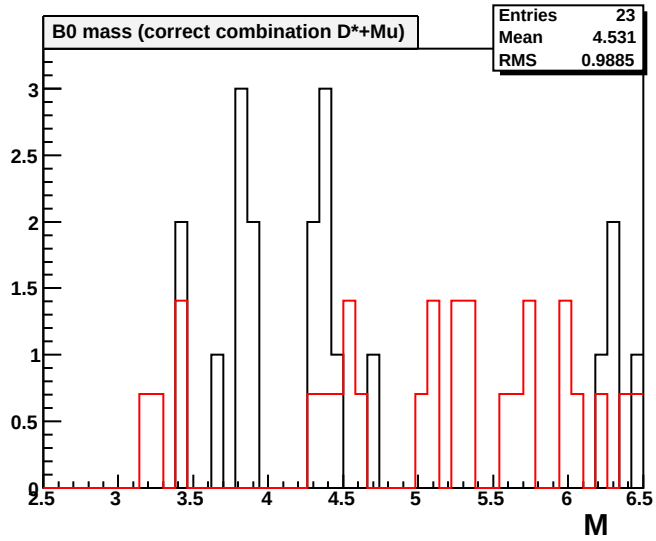

# Vertices (Primary - best)

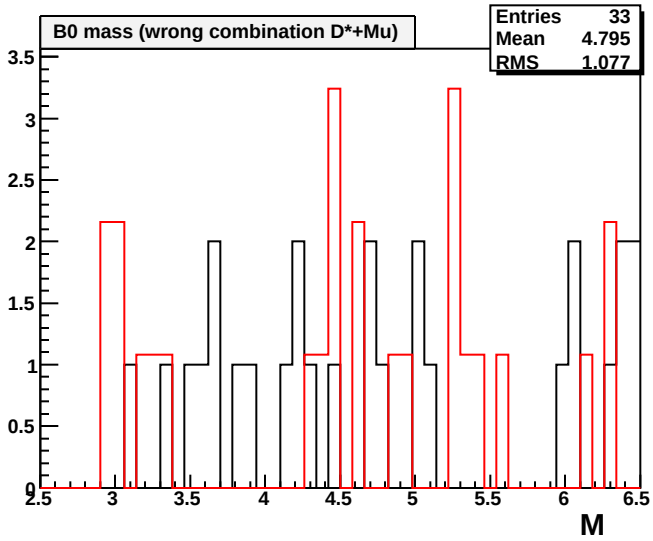

Kshort mass
Entries 3565
Mean 0.4925
RMS 0.1128
$M_{\pi\pi}$
Lambda mass
Entries 3565
Mean 1.12
RMS 0.01777
$M_{p+\pi-}$
Jpsi mass
Entries 38
Mean 2.894
RMS 0.4558
$M_{\mu\mu}$
Anti-Lambda mass
Entries 3565
Mean 1.121
RMS 0.01921
$M_{p-\pi+}$

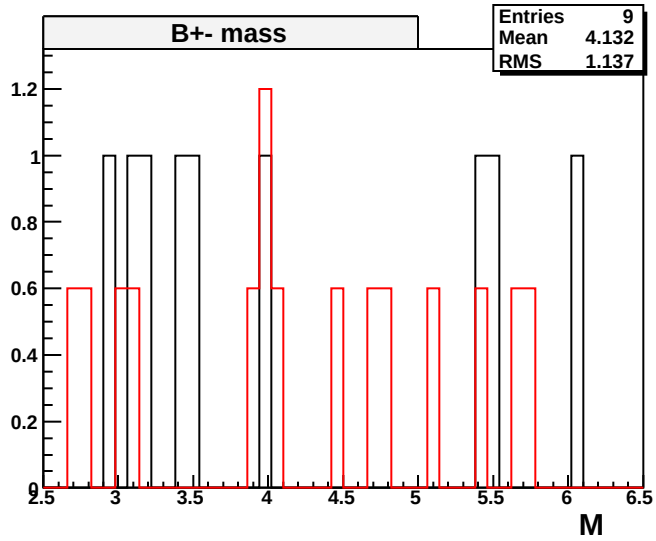
V0 (All)



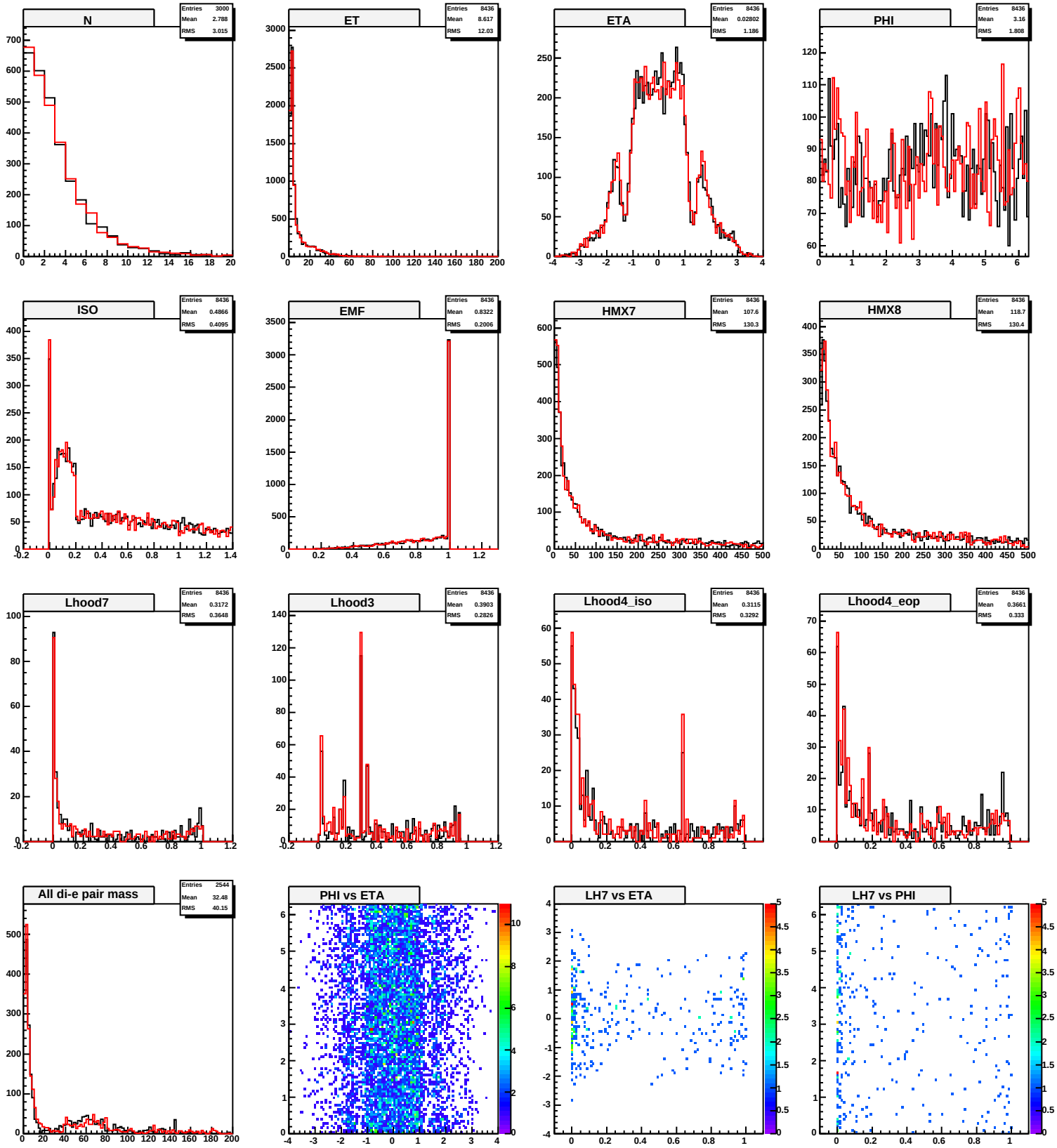



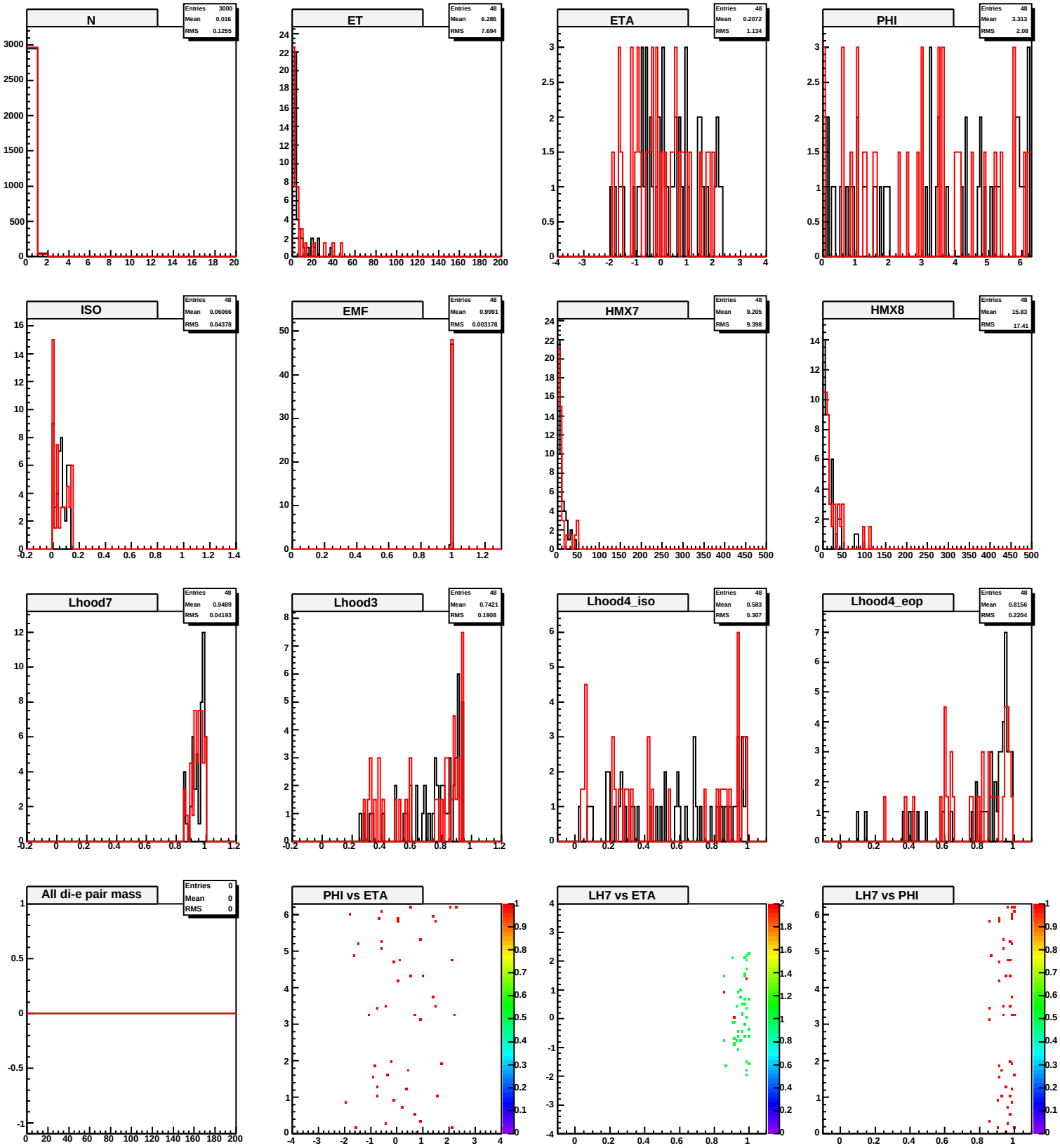



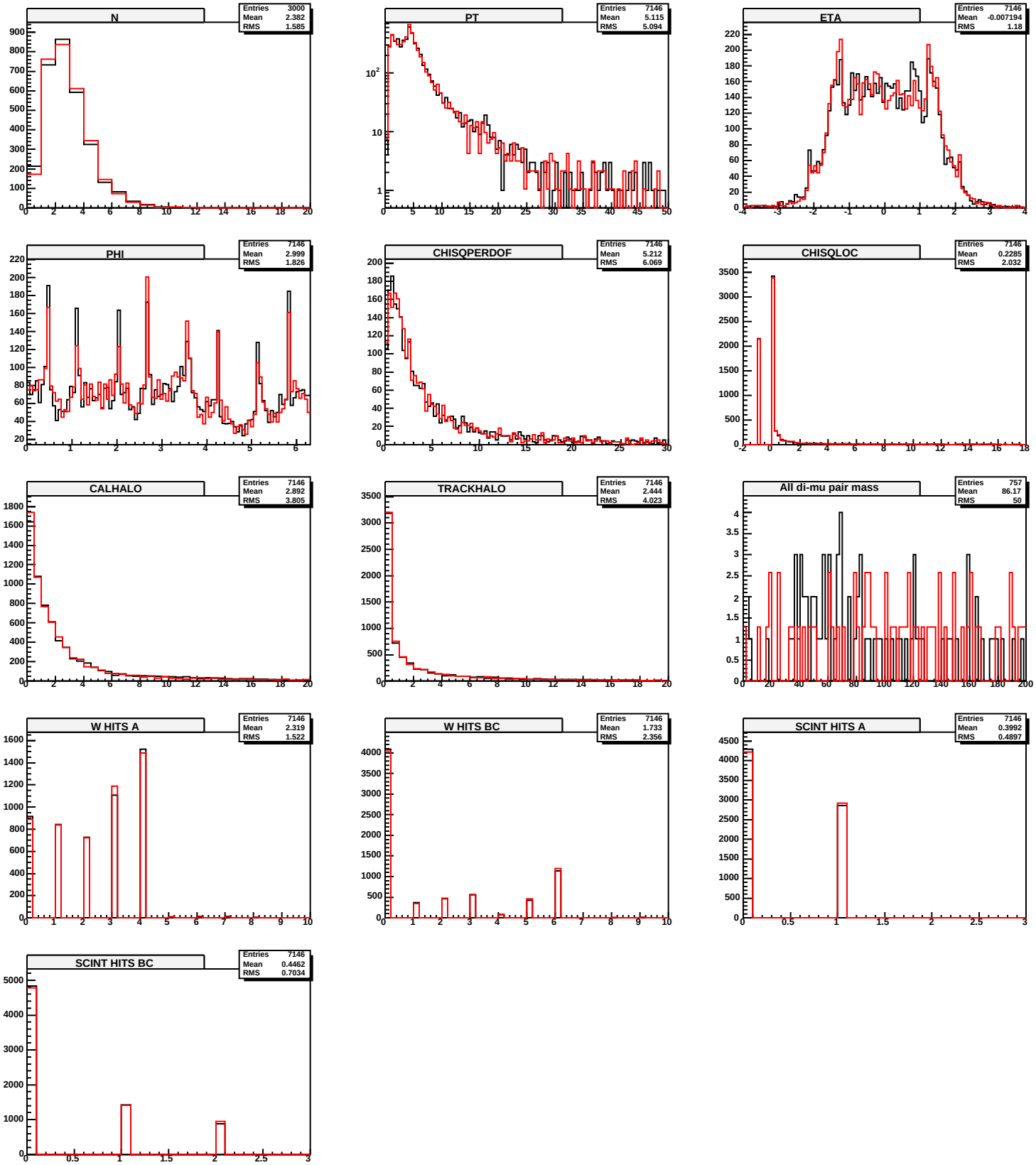

# V0(B mesons) (All)



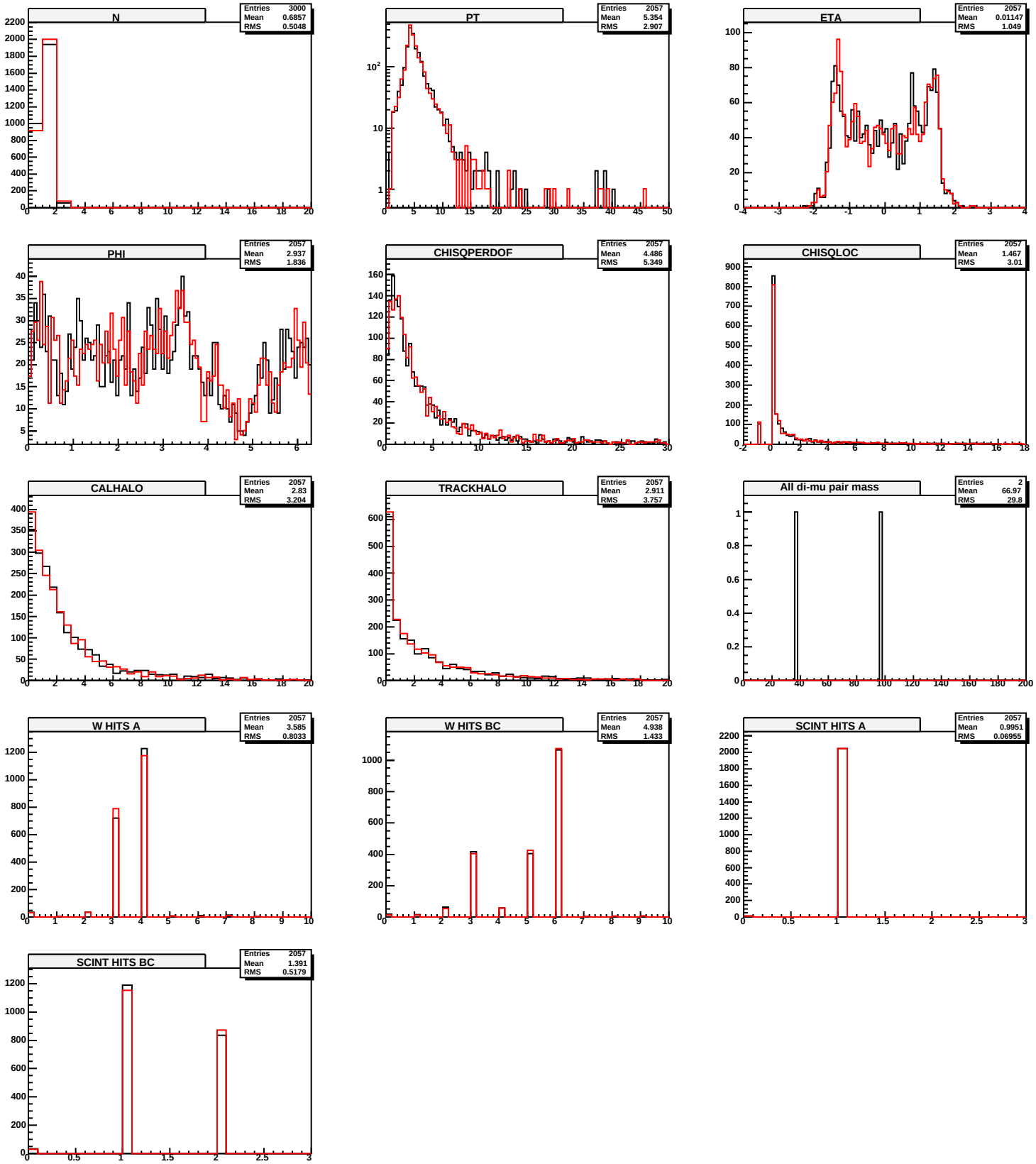

# Electrons (SCONE All)



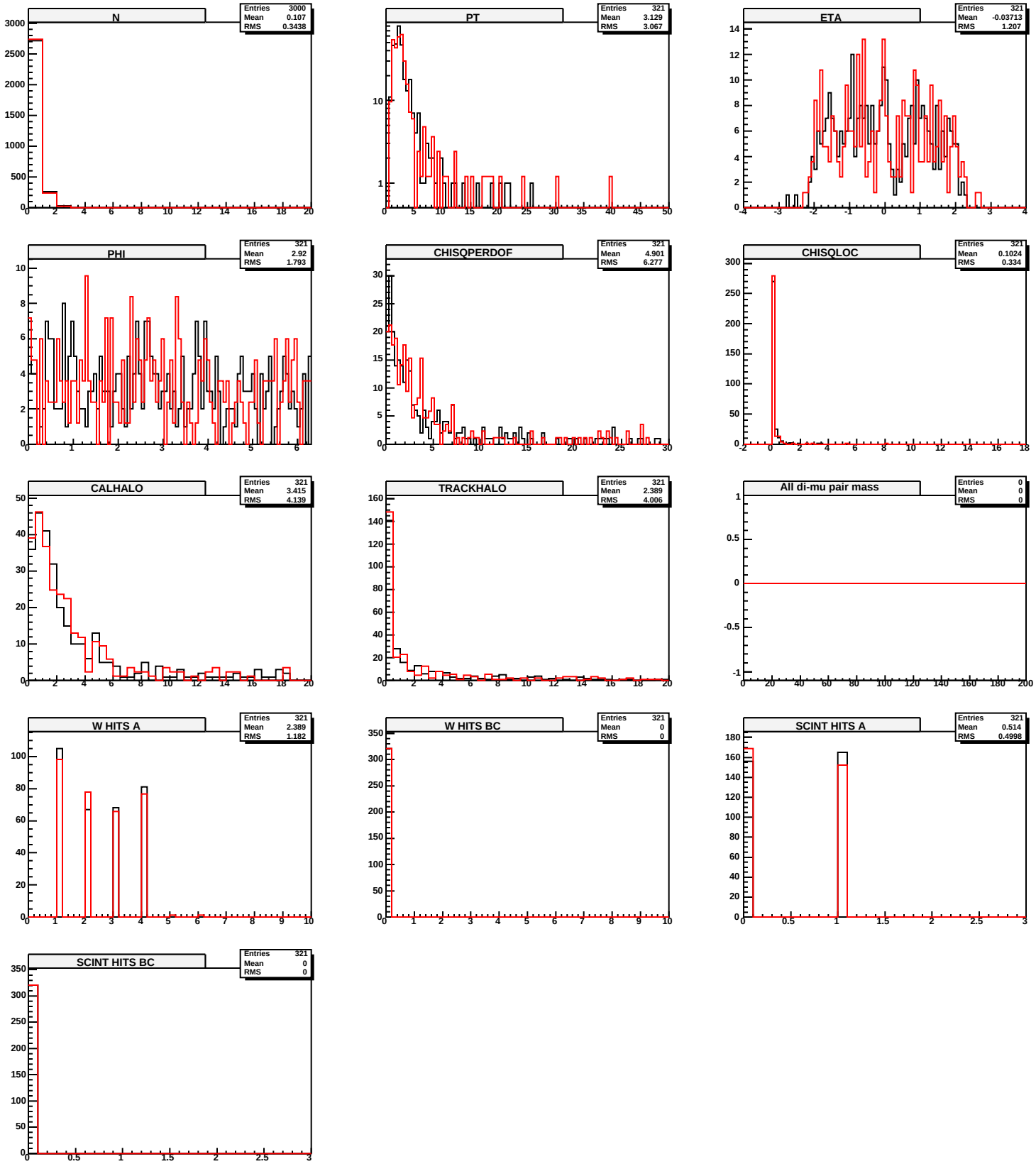

# Electrons (SCONE Tight)


N
Entries 3000
Mean 2.382
RMS 1.585
PT
Entries 7146
Mean 5.115
RMS 5.094
ETA
Entries 7146
Mean -0.007194
RMS 1.18
PHI
Entries 7146
Mean 2.999
RMS 1.826
CHISQPERDOF
Entries 7146
Mean 5.212
RMS 6.069
CHISQLOC
Entries 7146
Mean 0.2285
RMS 2.032
CALHALO
Entries 7146
Mean 2.892
RMS 3.805
TRACKHALO
Entries 7146
Mean 2.444
RMS 4.023
All di-mu pair mass
Entries 757
Mean 86.17
RMS 50
W HITS A
Entries 7146
Mean 2.319
RMS 1.522
W HITS BC
Entries 7146
Mean 1.733
RMS 2.356
SCINT HITS A
Entries 7146
Mean 0.3992
RMS 0.4897
SCINT HITS BC
Entries 7146
Mean 0.4462
RMS 0.7034

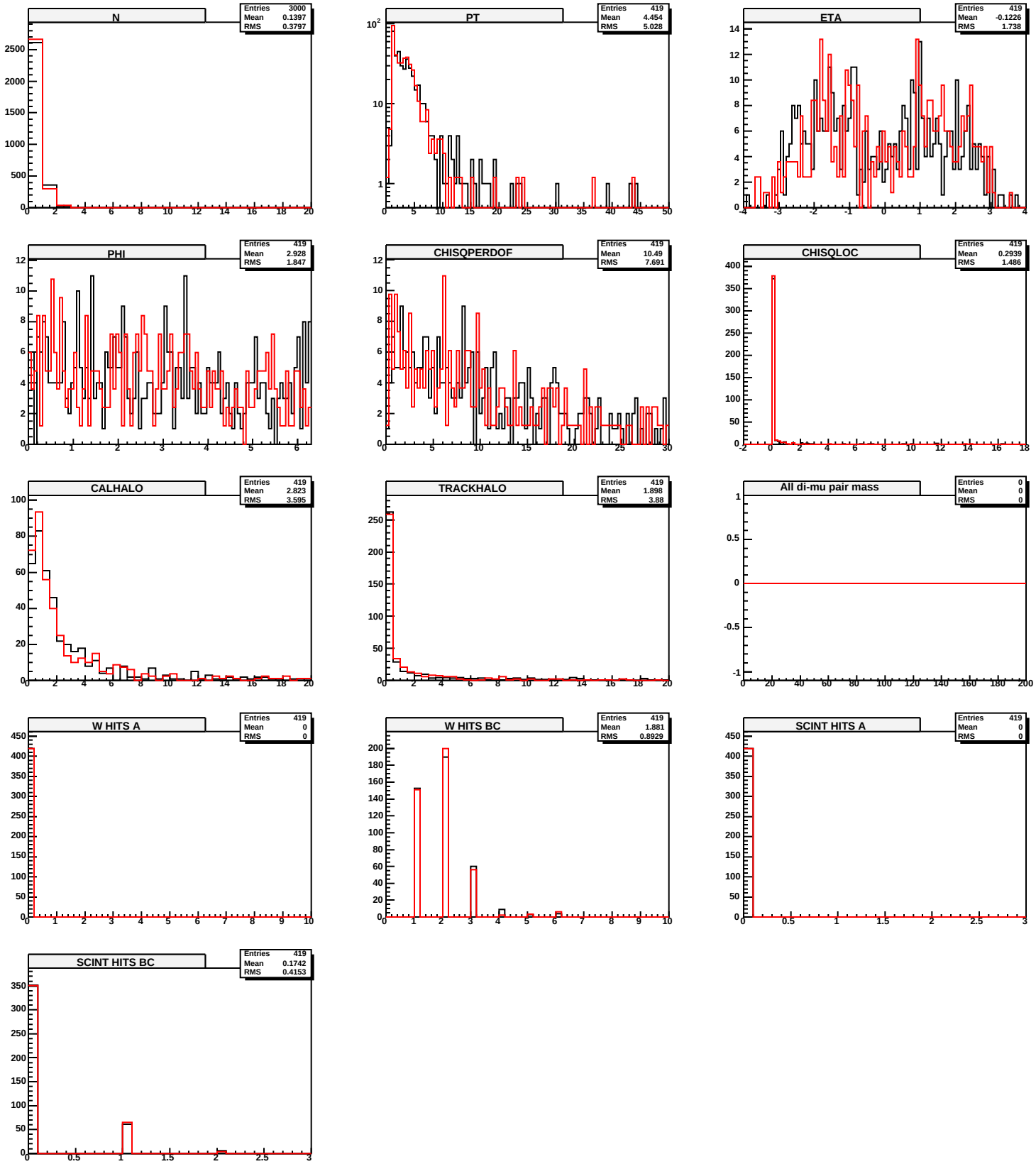
# Muons (All)



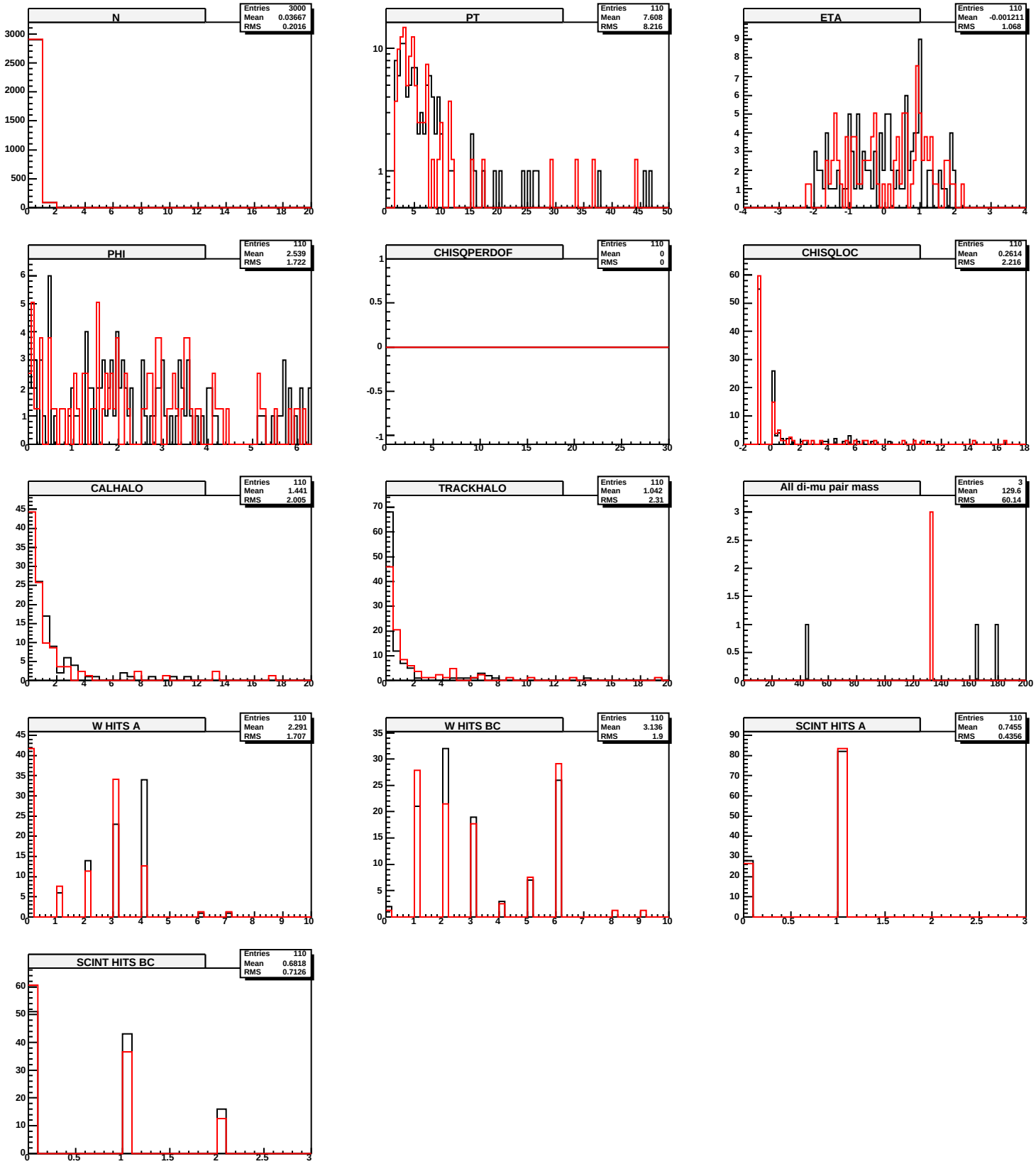

# Muons (Matched)


N
Entries 3000
Mean 0.107
RMS 0.3438
PT
Entries 321
Mean 3.129
RMS 3.067
ETA
Entries 321
Mean -0.03713
RMS 1.207
PHI
Entries 321
Mean 2.92
RMS 1.793
CHISQPERDOF
Entries 321
Mean 4.901
RMS 6.277
CHISQLOC
Entries 321
Mean 0.1024
RMS 0.334
CALHALO
Entries 321
Mean 3.415
RMS 4.139
TRACKHALO
Entries 321
Mean 2.389
RMS 4.006
All di-mu pair mass
Entries 0
Mean 0
RMS 0
W HITS A
Entries 321
Mean 2.389
RMS 1.182
W HITS BC
Entries 321
Mean 0
RMS 0
SCINT HITS A
Entries 321
Mean 0.514
RMS 0.4998
SCINT HITS BC
Entries 321
Mean 0
RMS 0

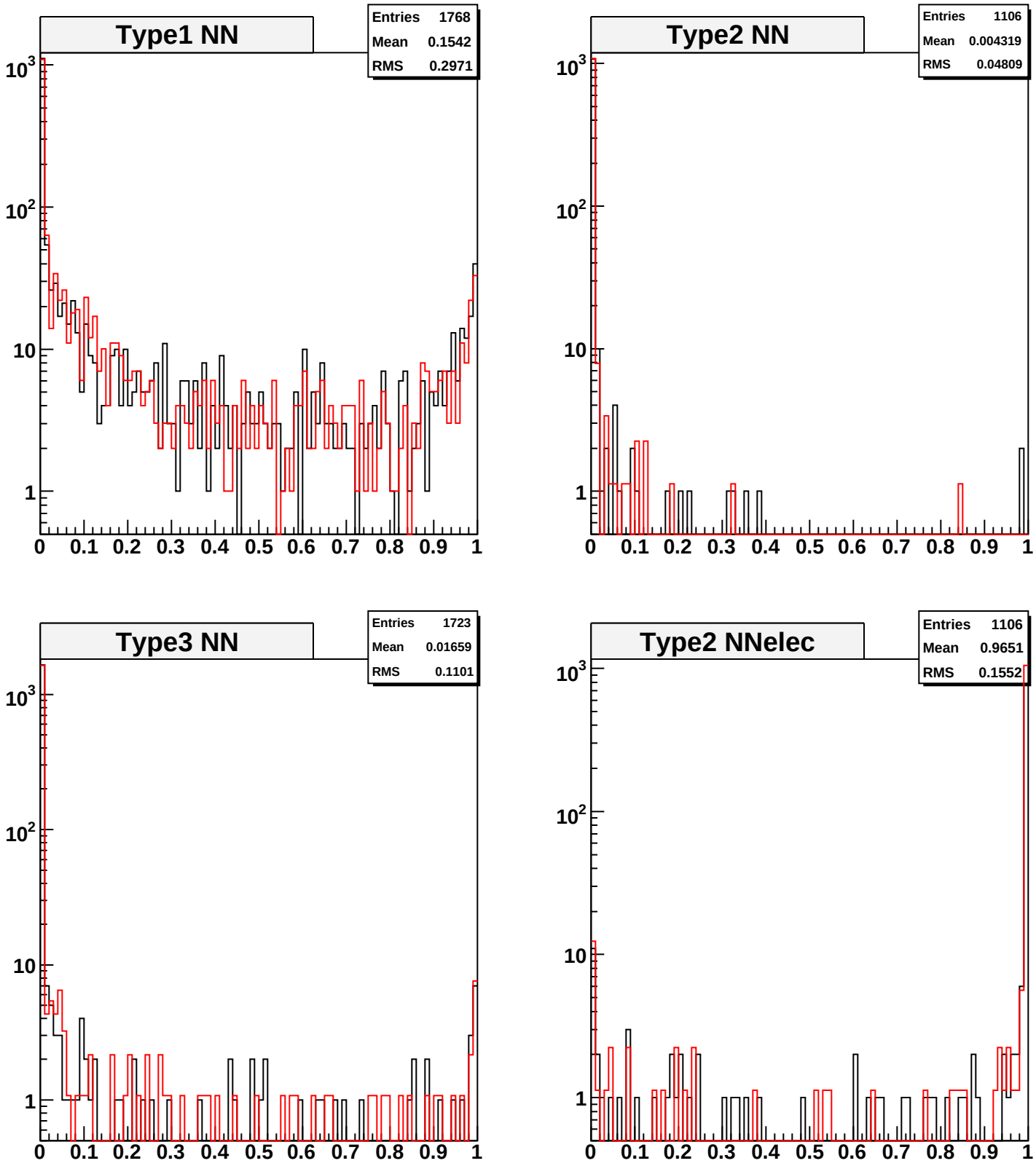
# Muons (Astub)



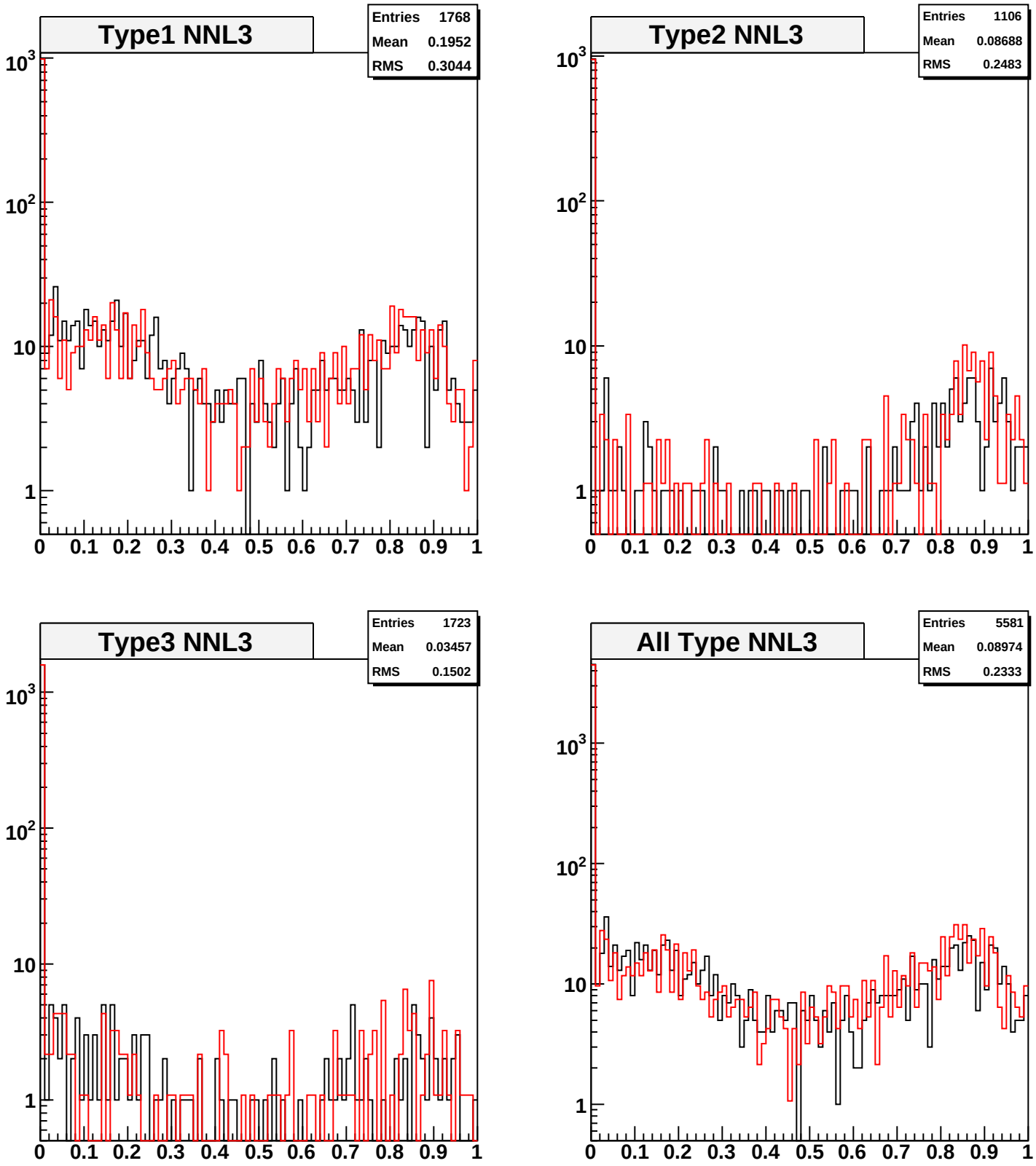

# Muons (BCstub)



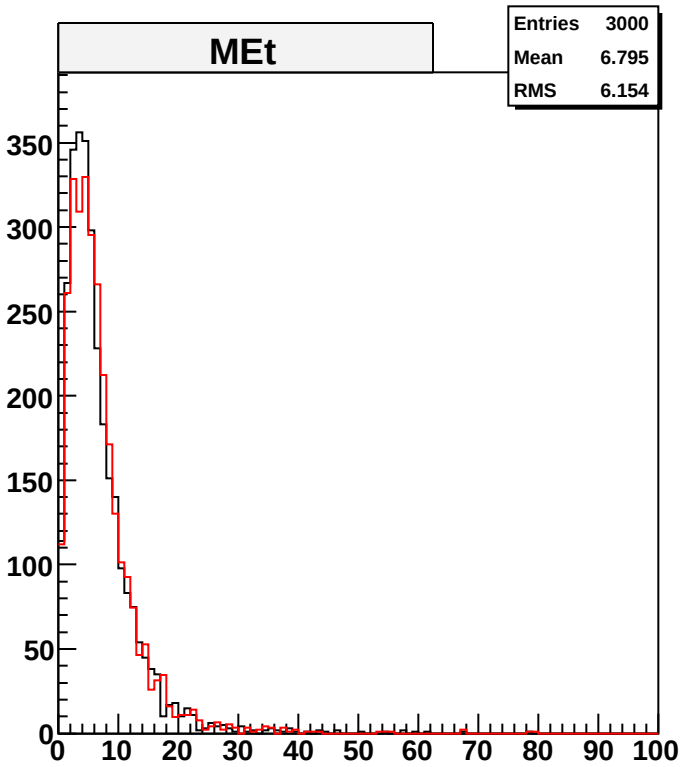

# Muons (Unmatched)

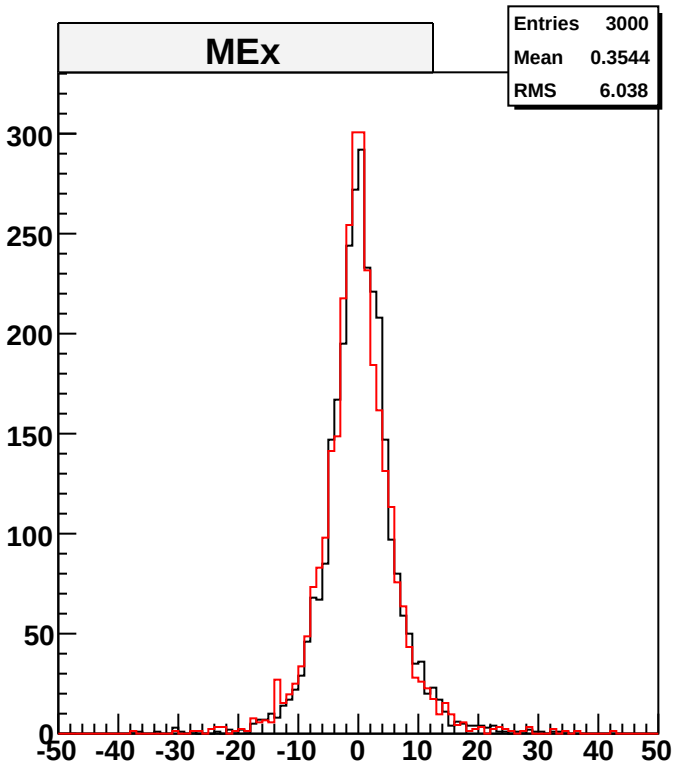


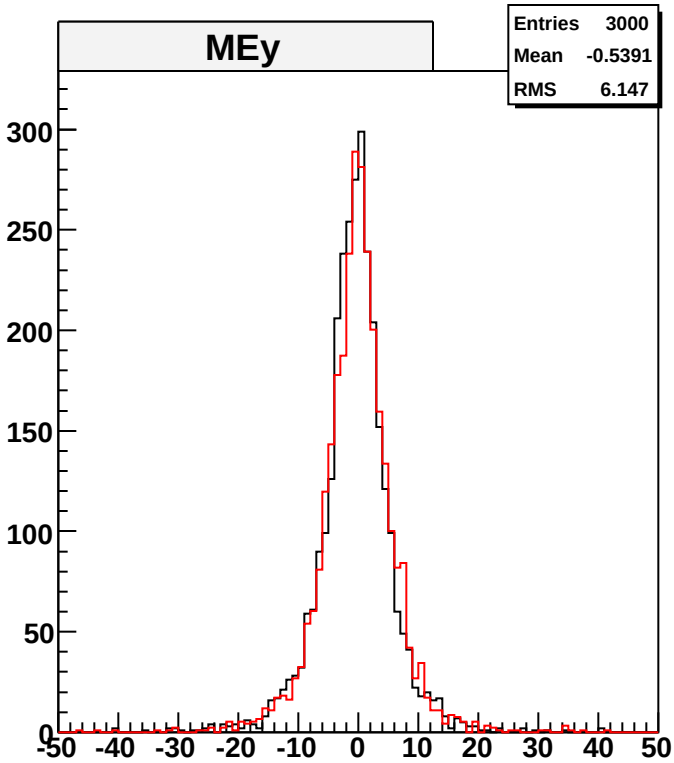

**Taus NN (TAU All)**



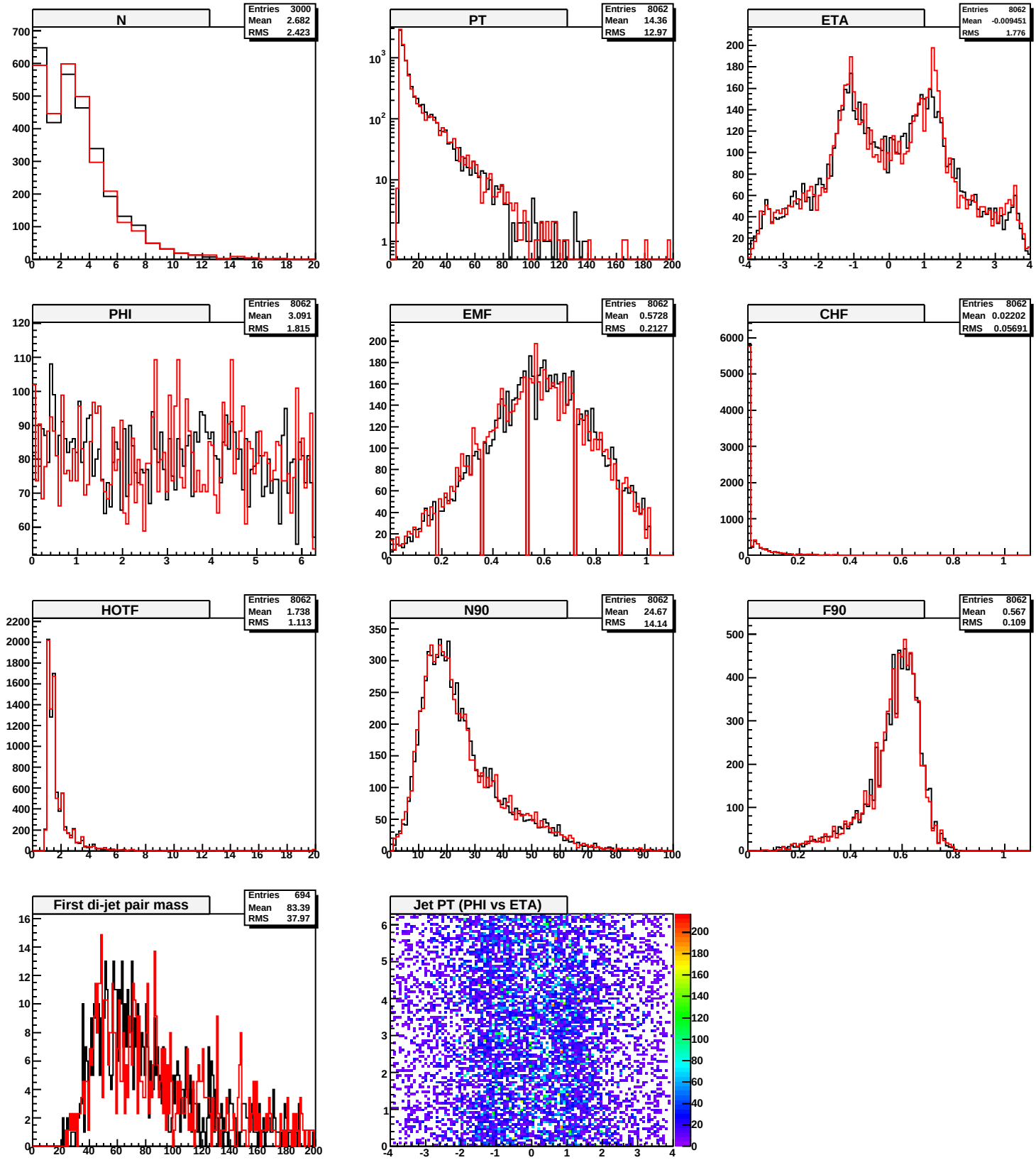

**Taus NNL3 (TAU All)**


MEt
Entries 3000
Mean 6.795
RMS 6.154
0
50
100
150
200
250
300
350
0 10 20 30 40 50 60 70 80 90 100

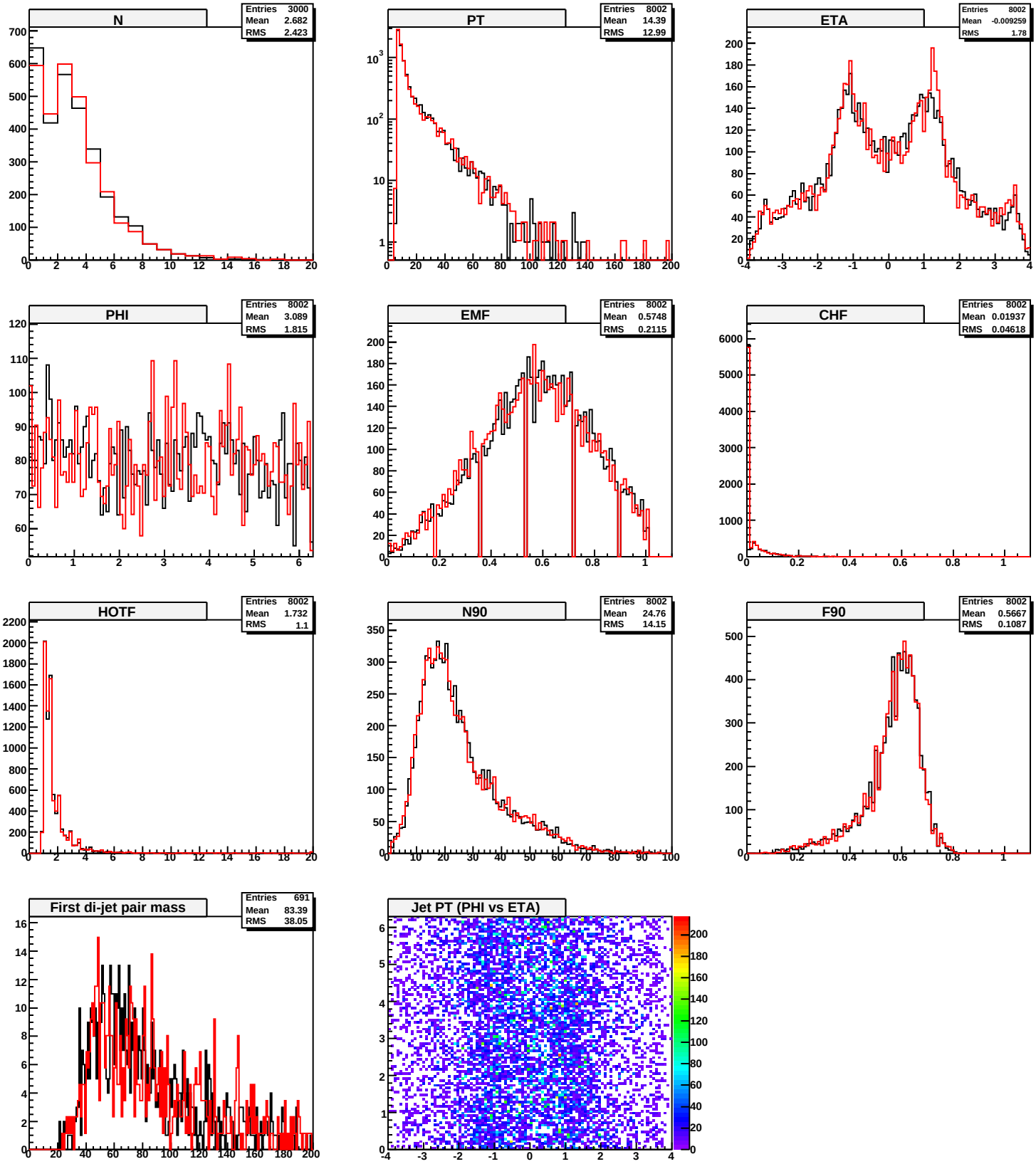

MEx
Entries 3000
Mean 0.3544
RMS 6.038
0
50
100
150
200
250
300
-50 -40 -30 -20 -10 0 10 20 30 40 50


MEy
Entries 3000
Mean -0.5391
RMS 6.147
0
50
100
150
200
250
300
-50 -40 -30 -20 -10 0 10 20 30 40 50

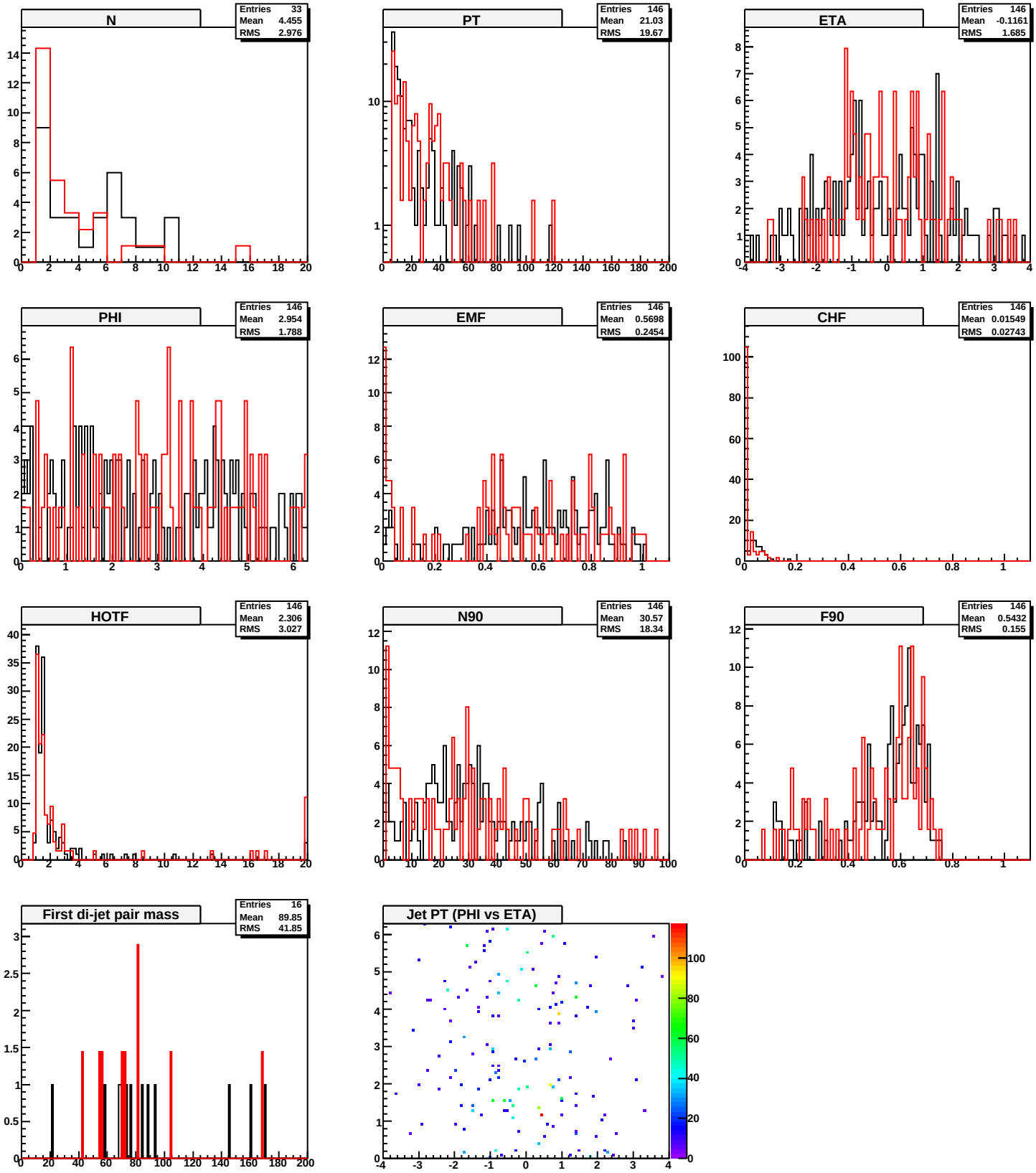
**Met (No cuts)**



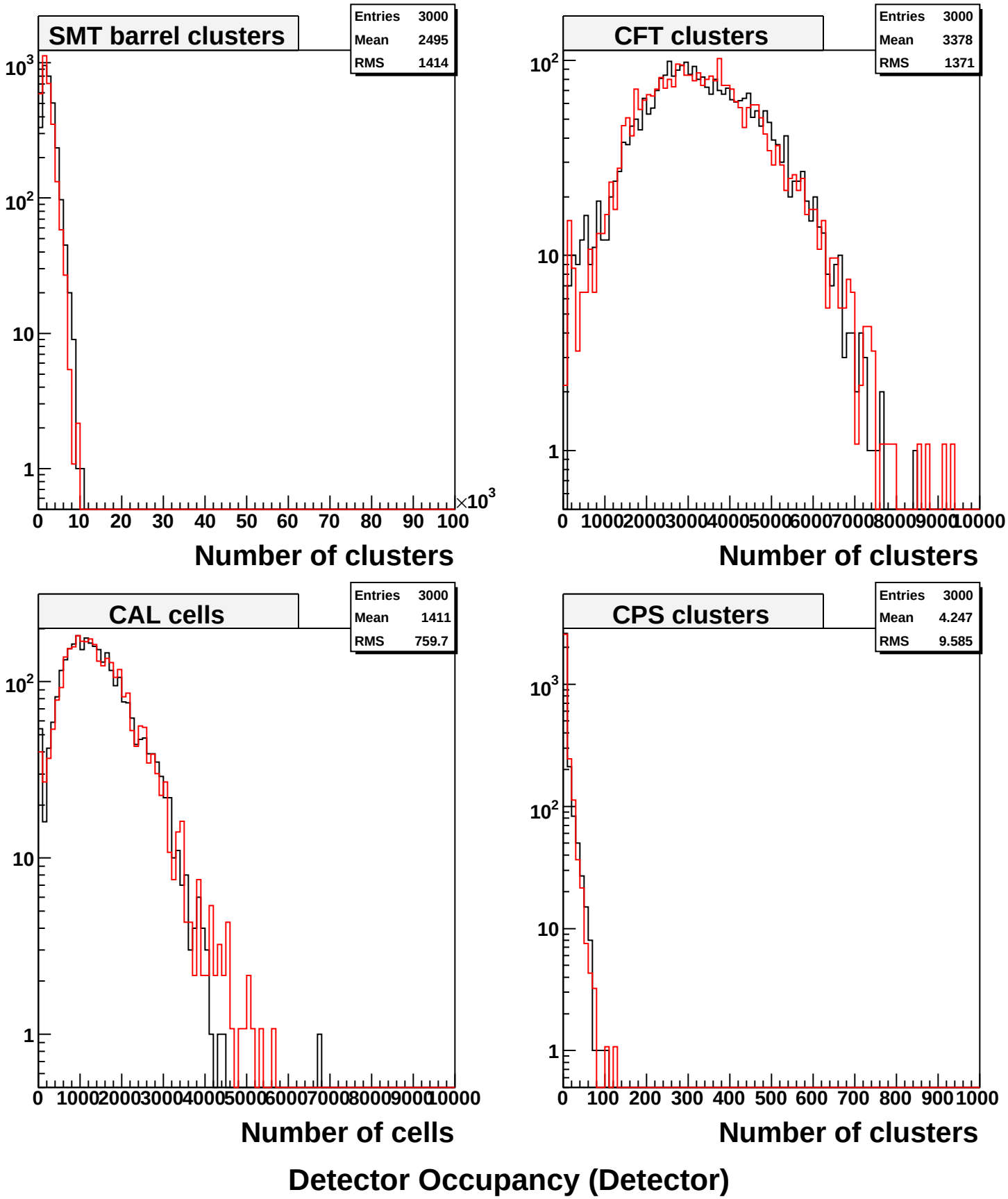

# Jets (Cone R 0.7 (no cuts))



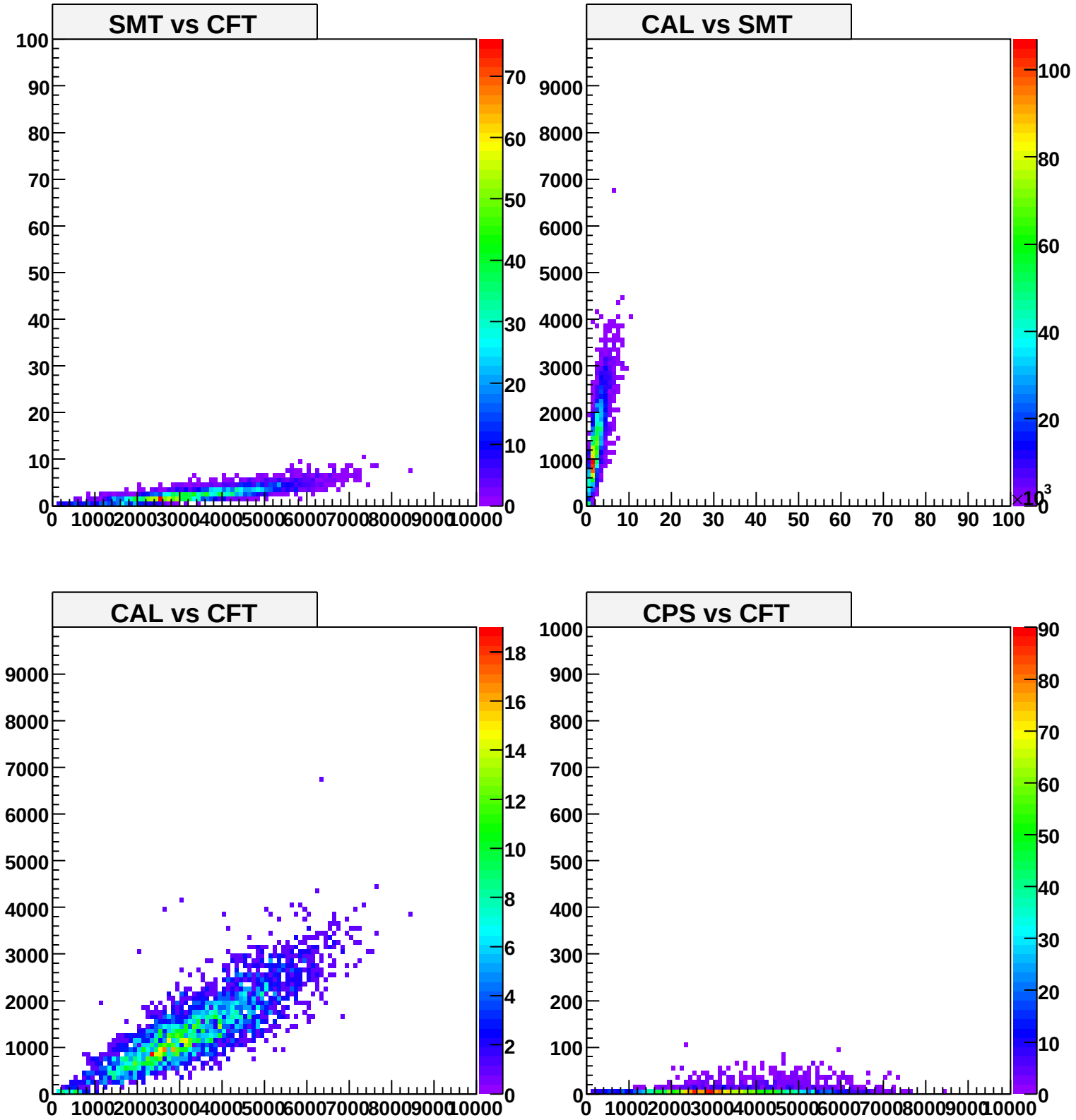

# Jets (Cone R 0.7 (standard cuts))

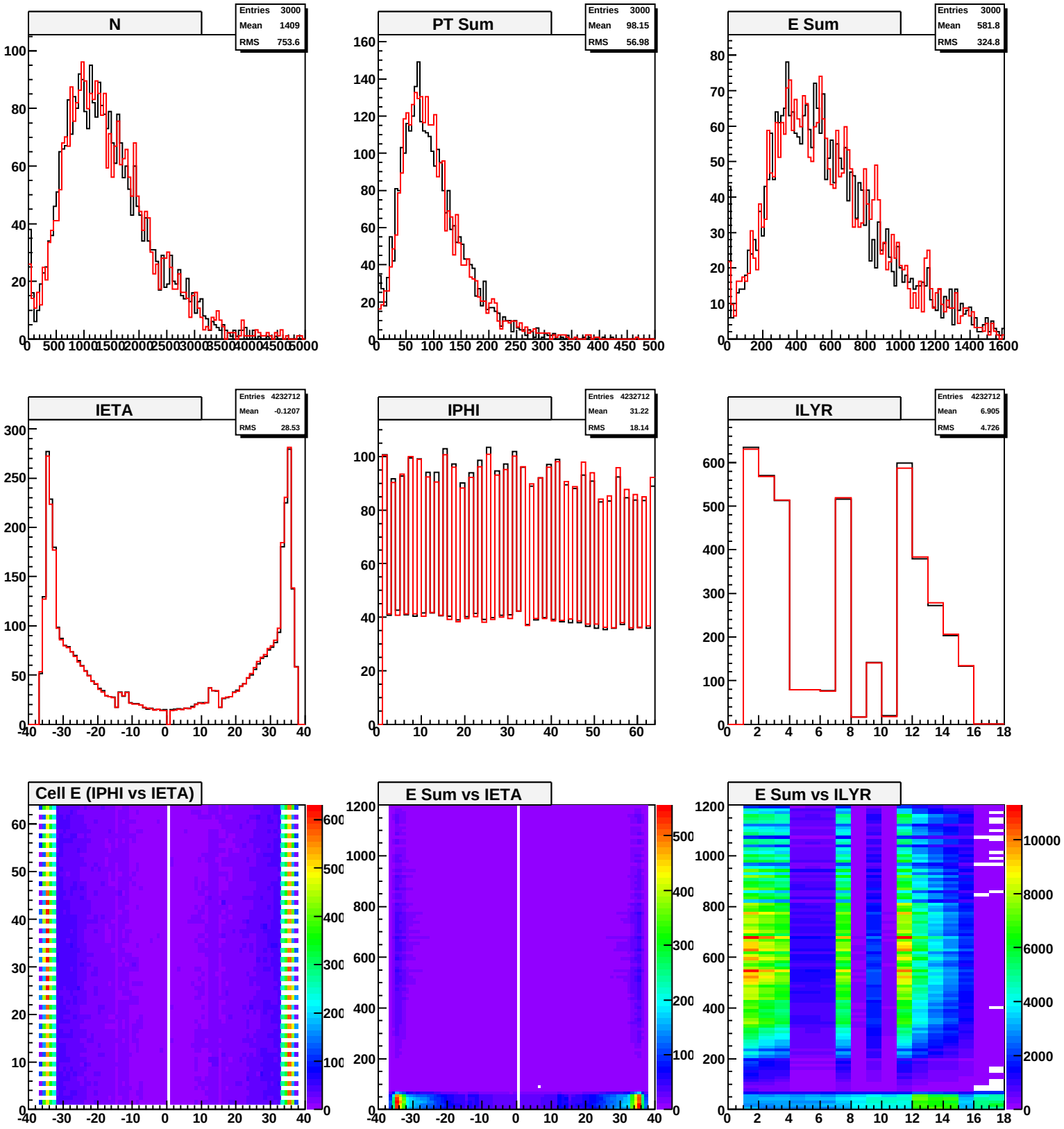



# Jets (Cone R 0.7 (standard cuts, MET>30))

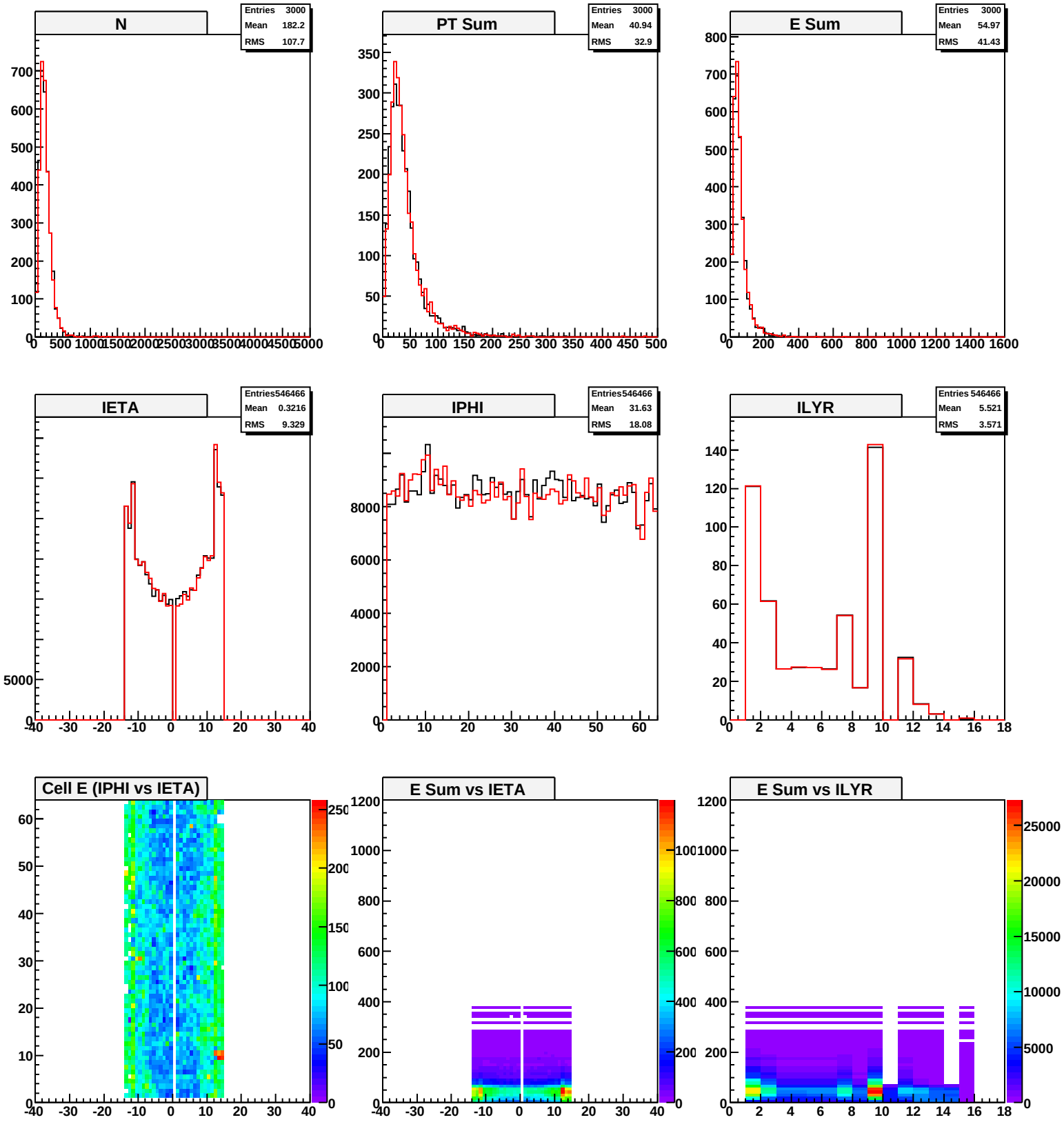



Detector Occupancy (Detector)

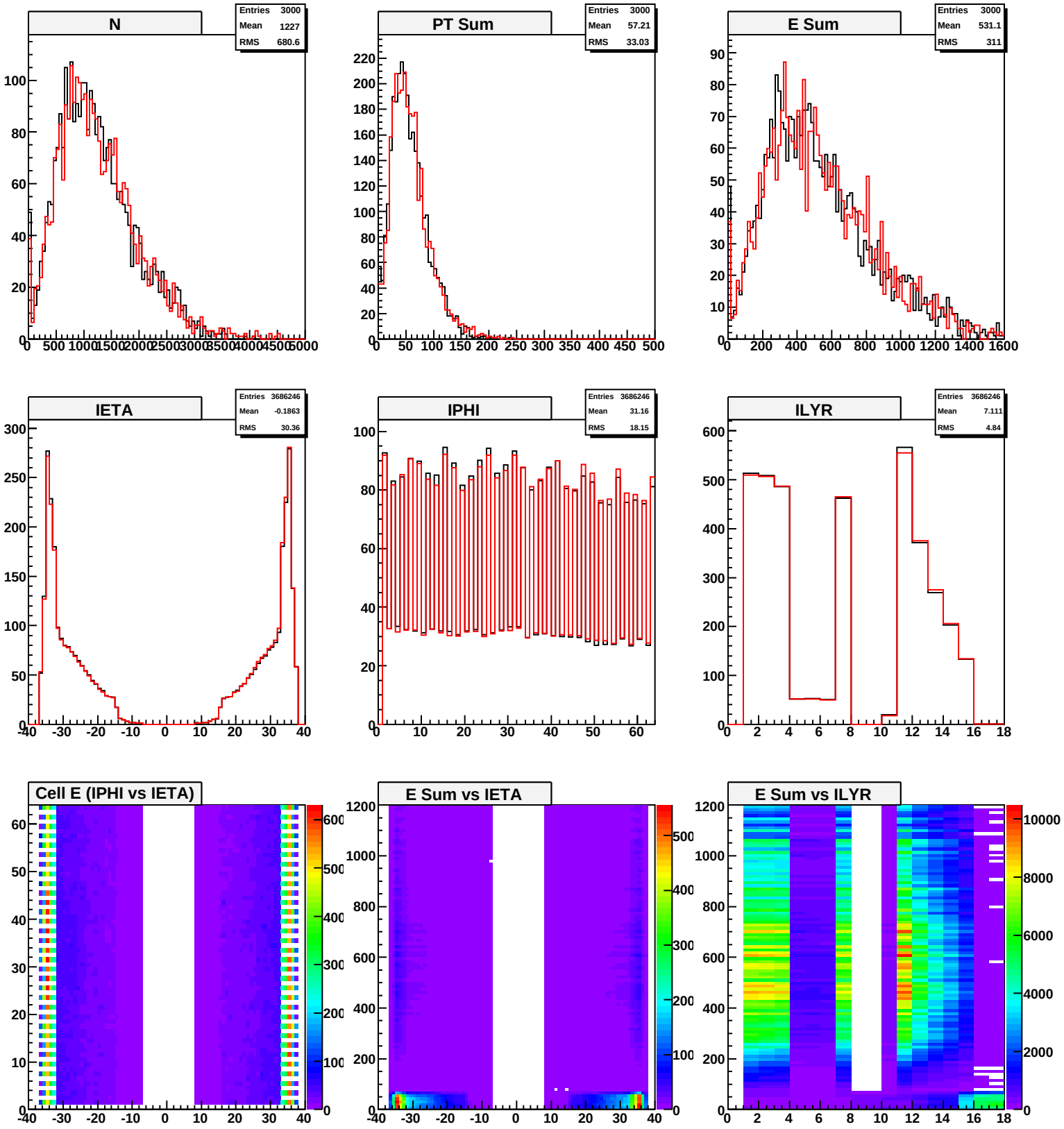

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)



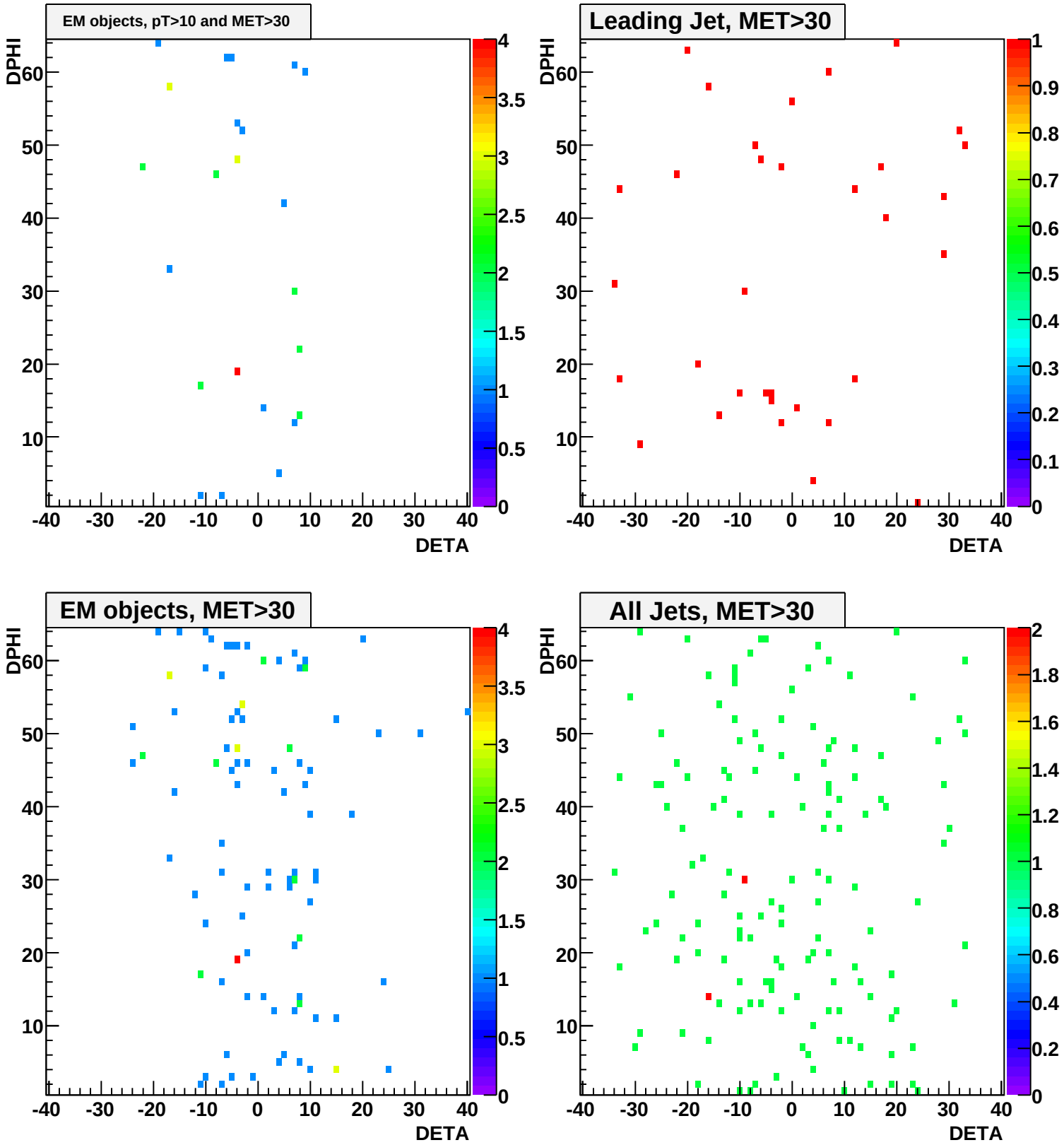

# Calorimeter (All cells)



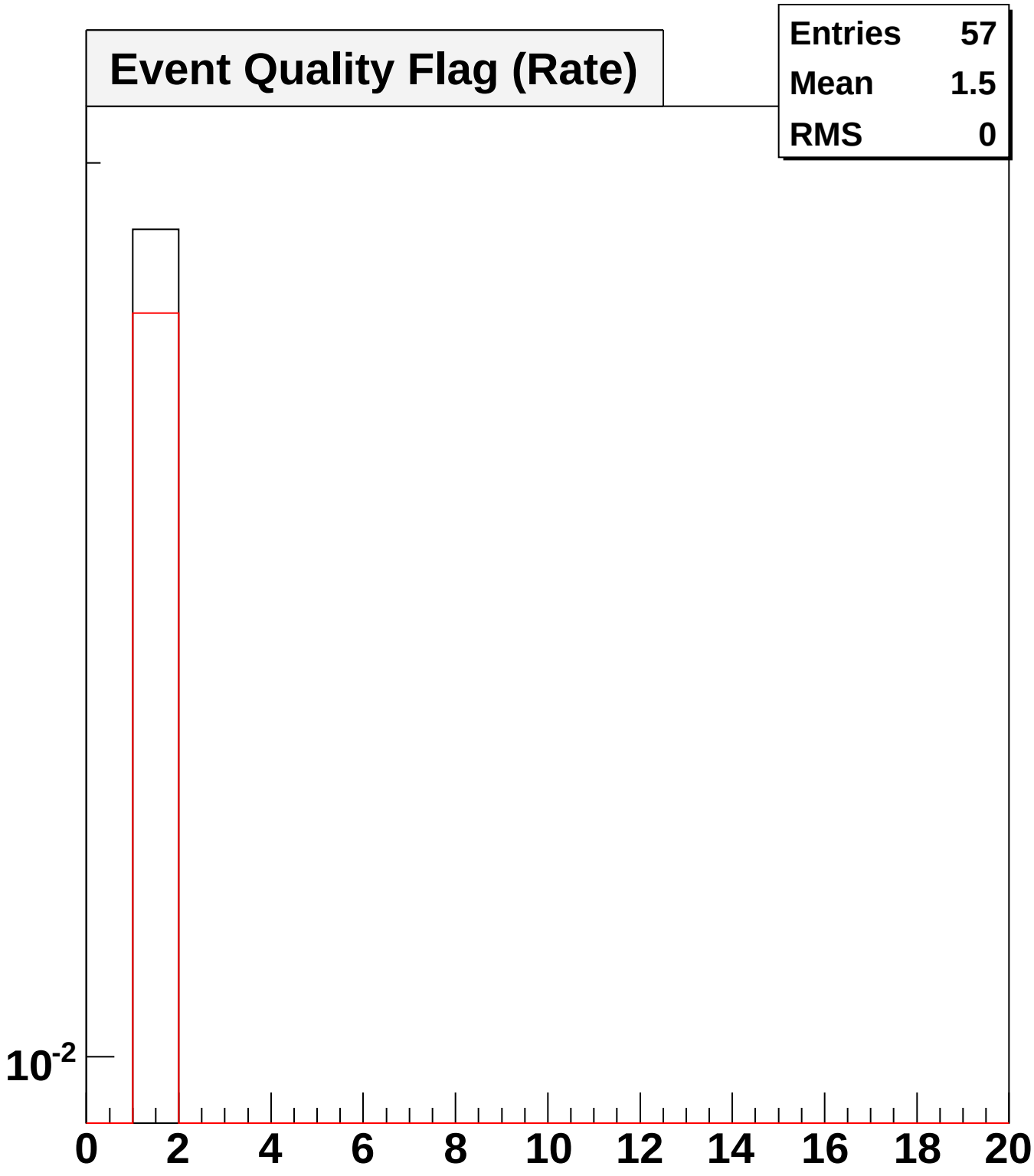

# Calorimeter (All CC cells)



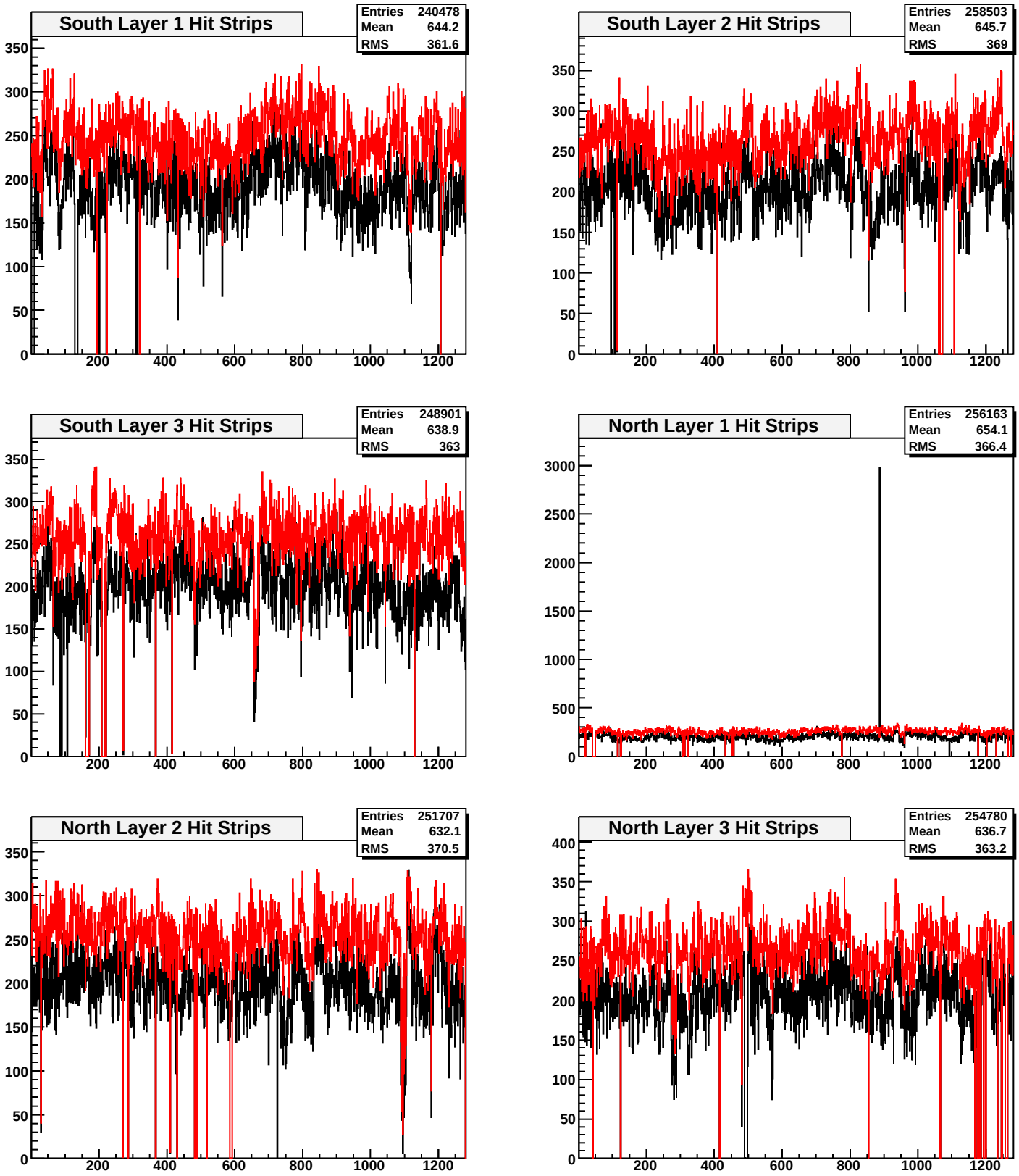

# Calorimeter (All EC cells)



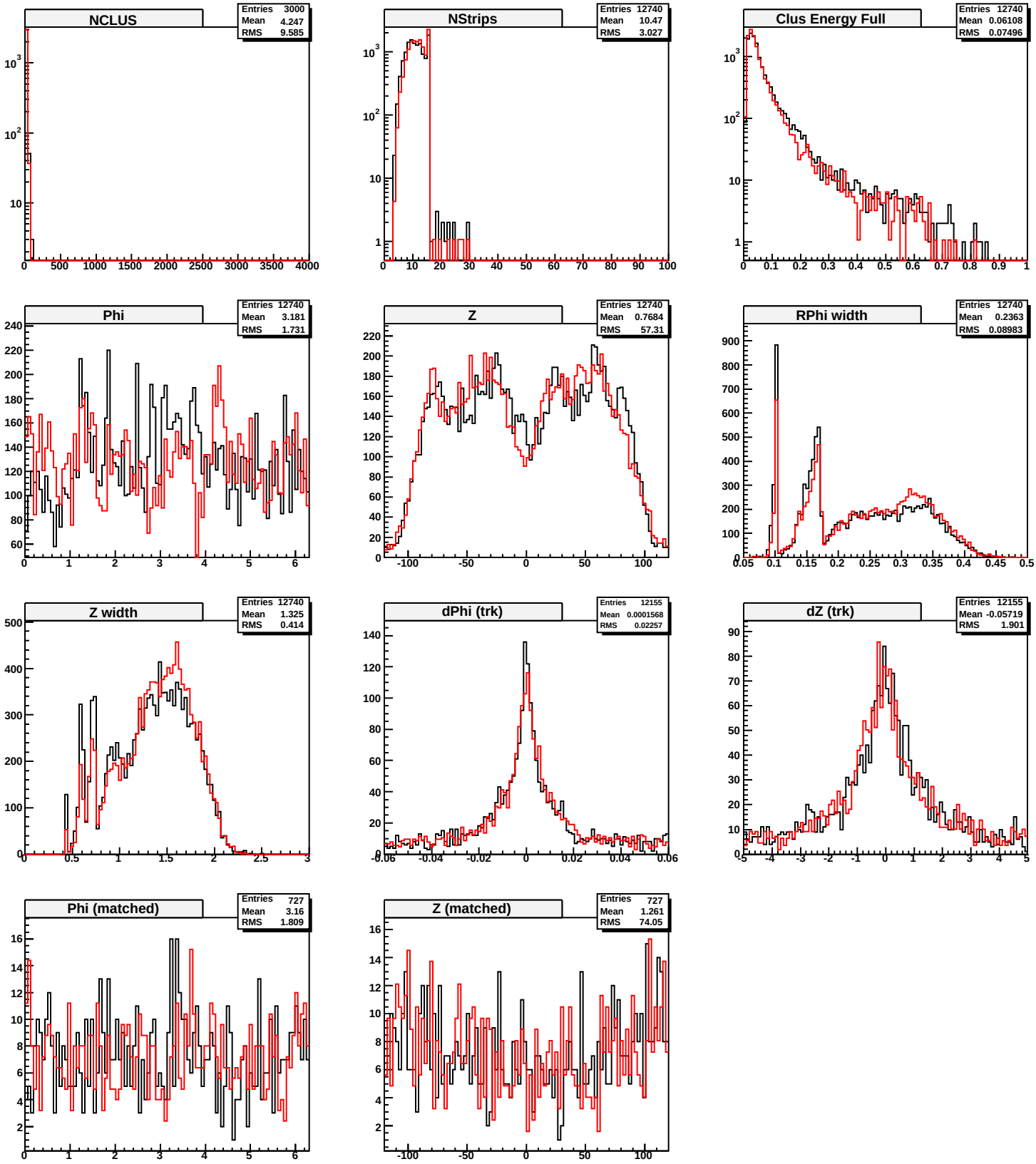

**Cal Objects with MET>30 (All cells)**



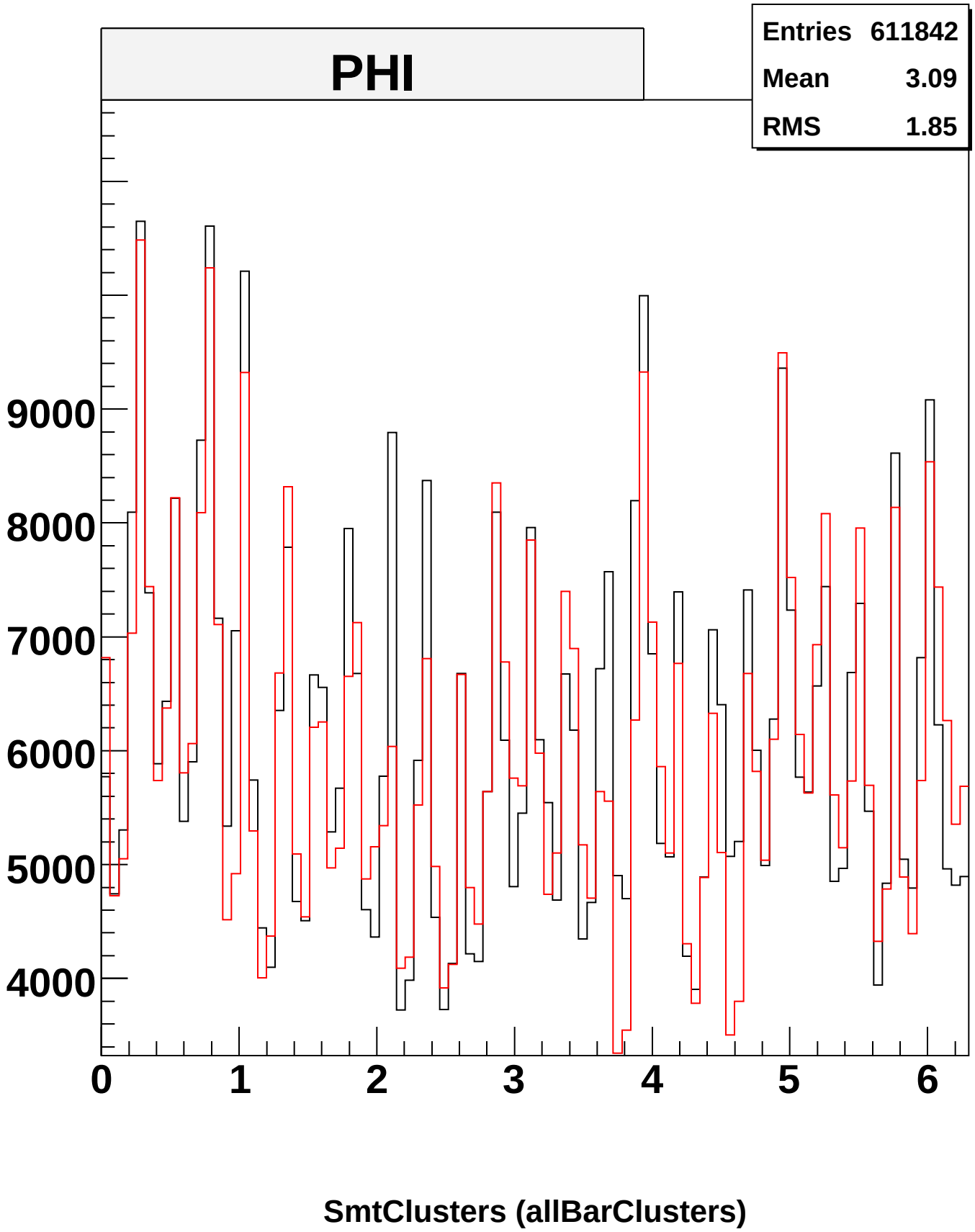

Calorimeter Event Quality (All cells)

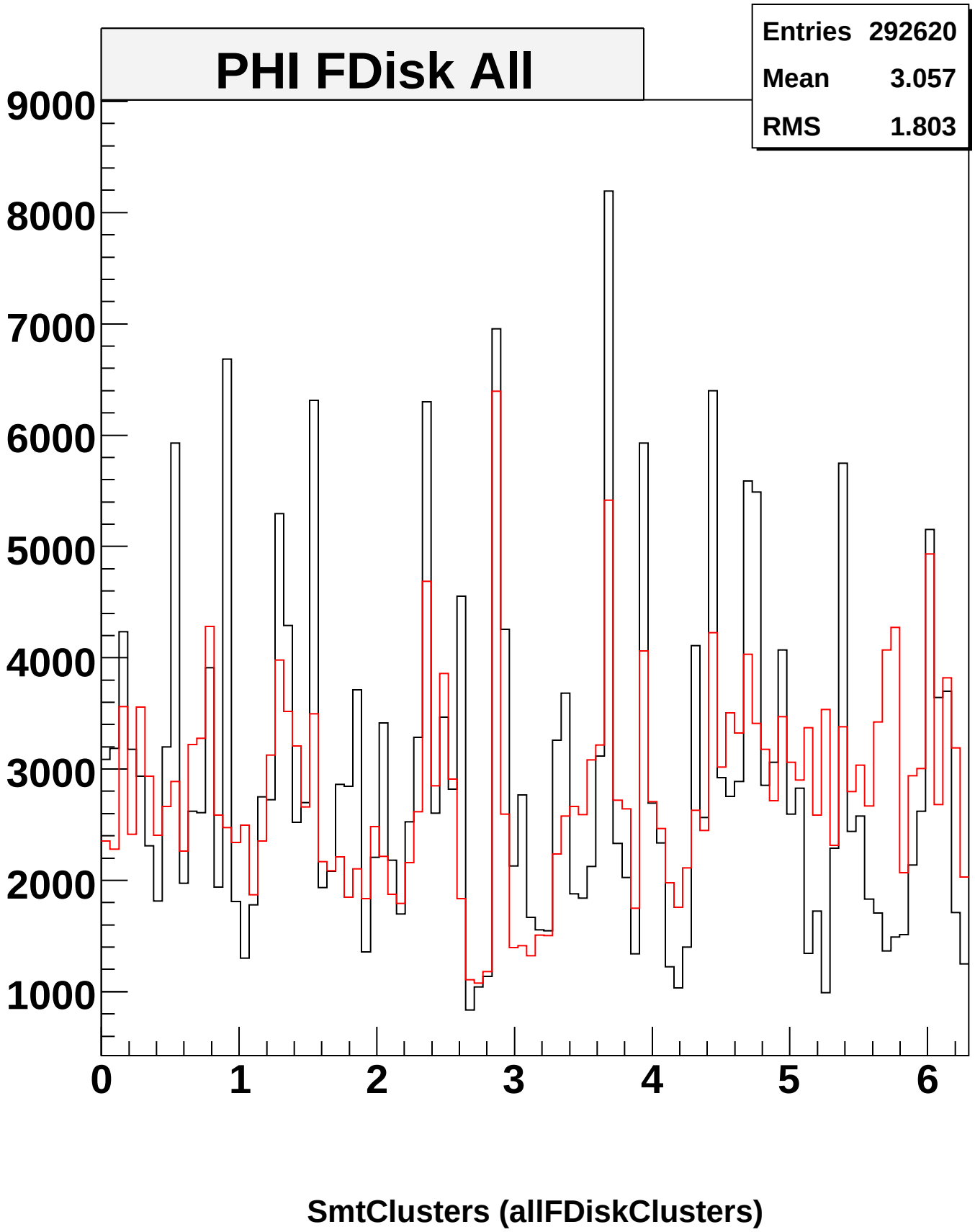


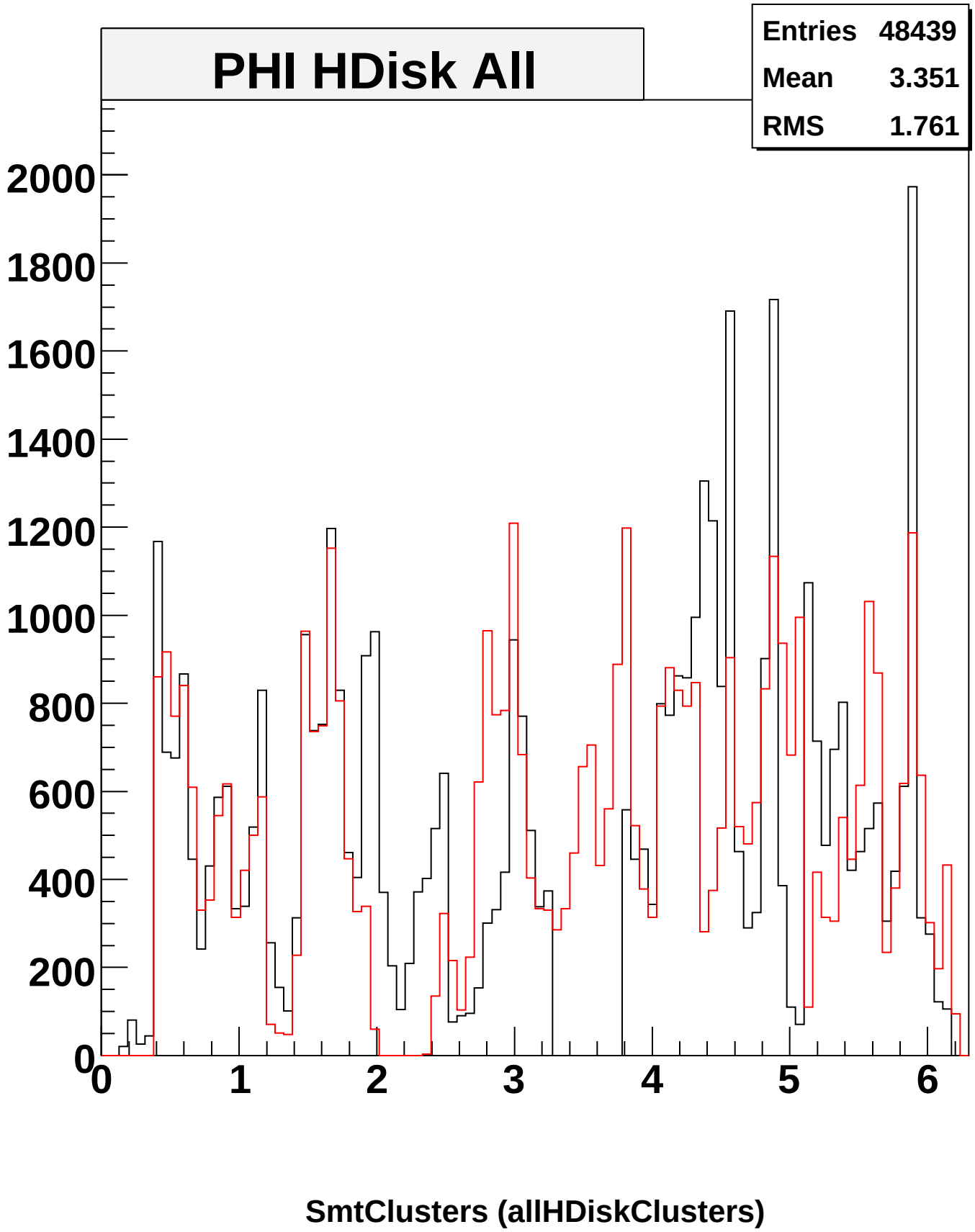

**CPS Hit Strips (All Clusters)**

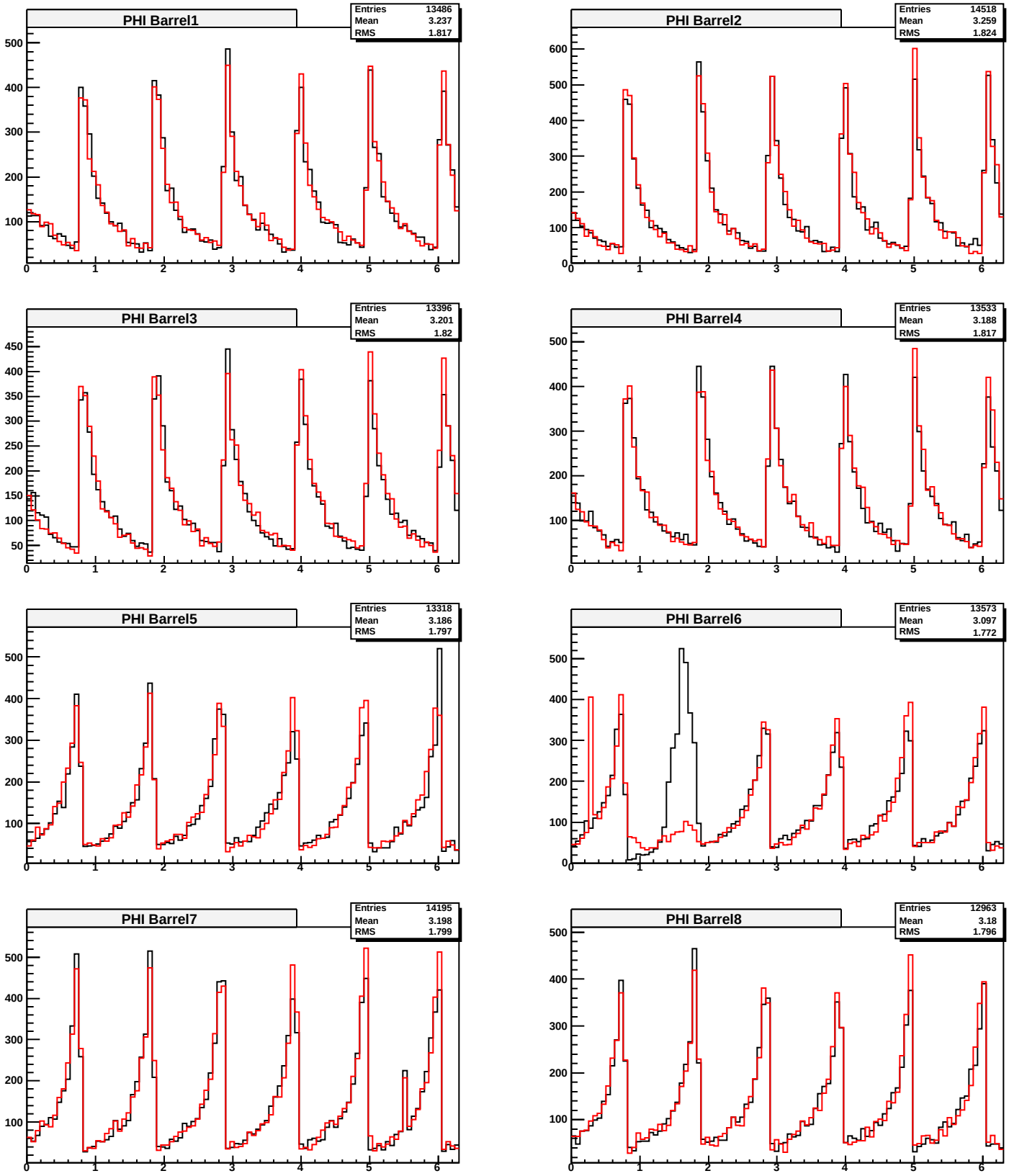



# CPS Clusters (All Clusters)

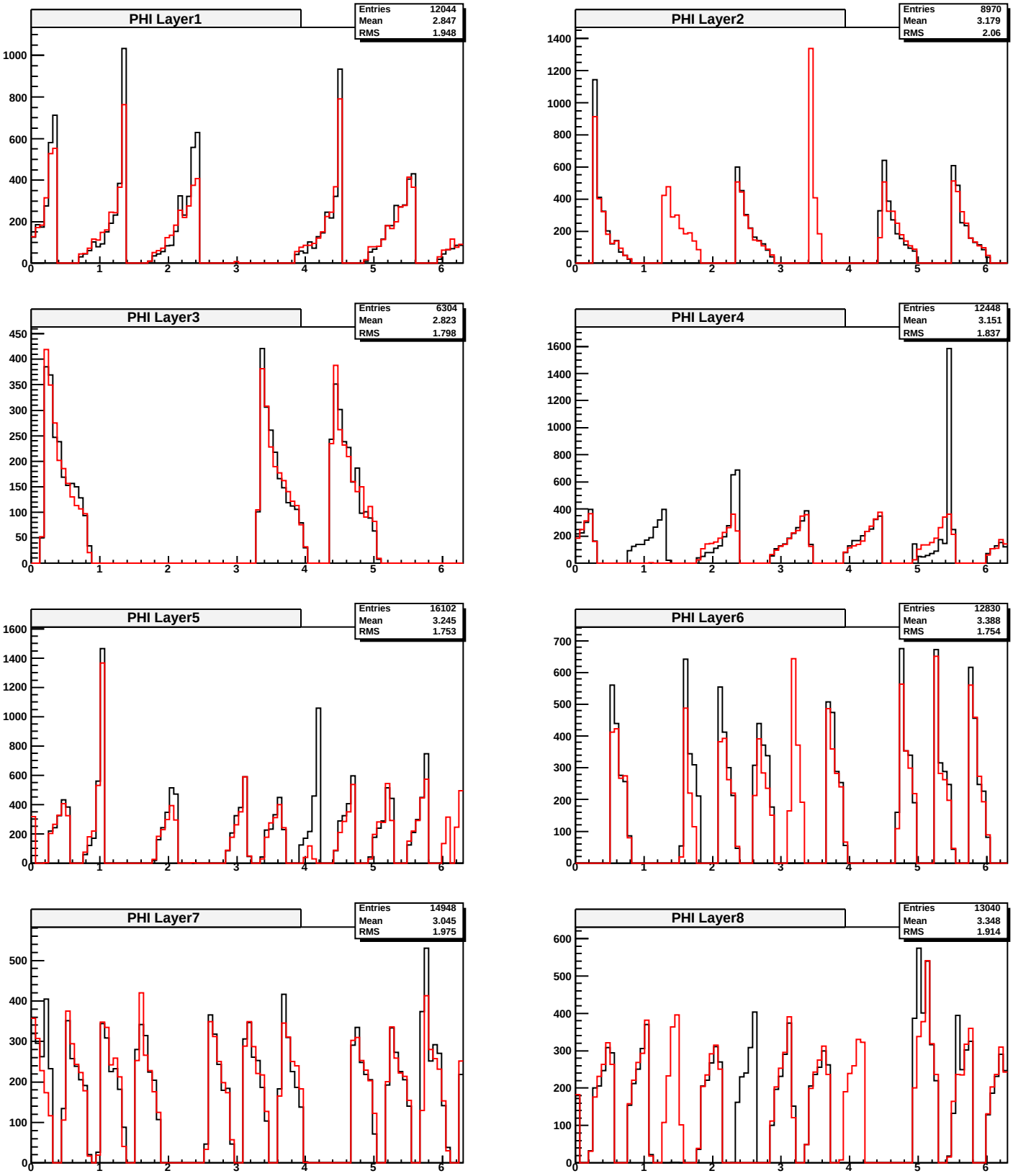

PHI
Entries 611842
Mean 3.09
RMS 1.85
9000
8000
7000
6000
5000
4000
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 292620
Mean 3.057
RMS 1.803
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

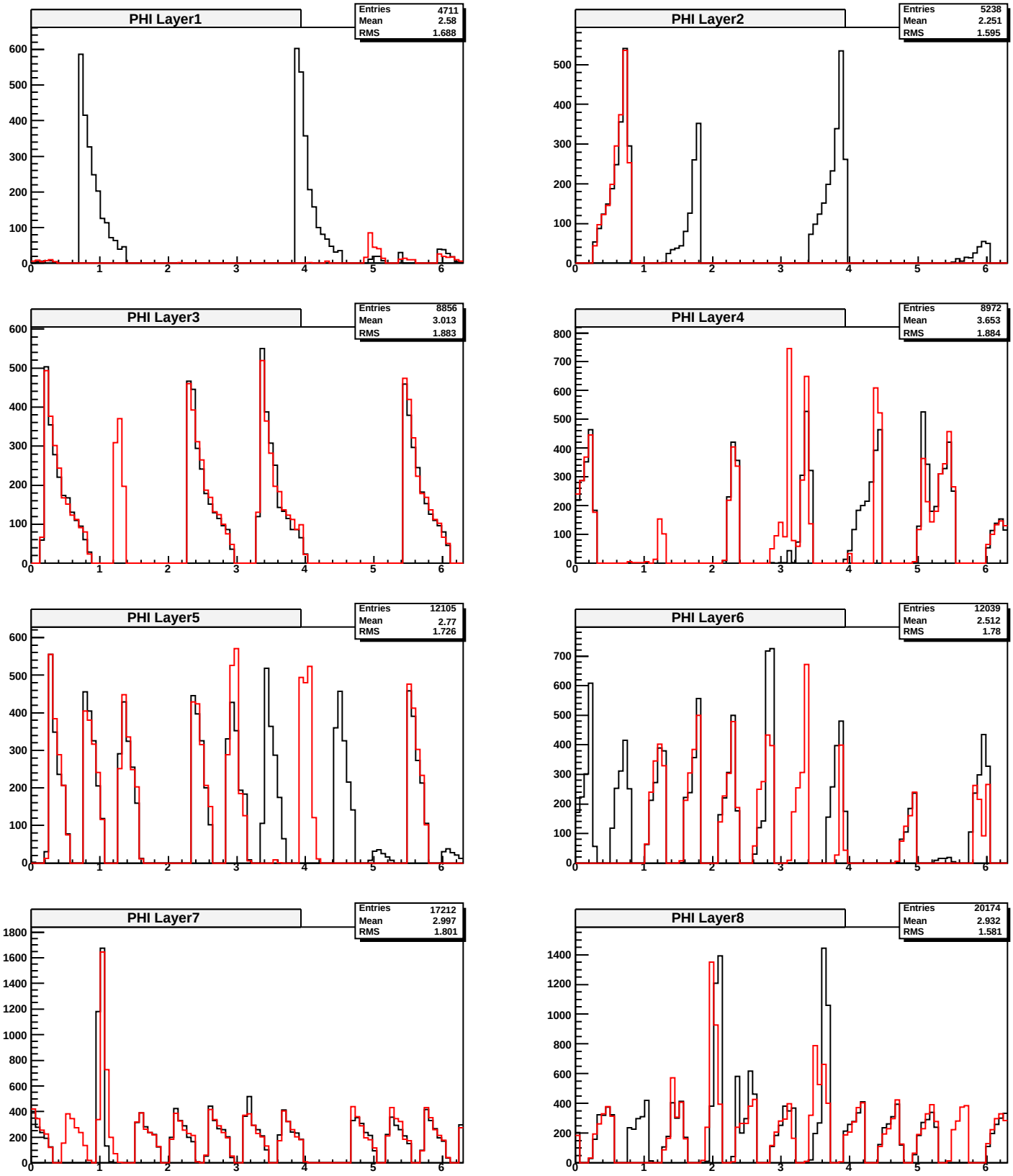

PHI HDisk All
Entries 48439
Mean 3.351
RMS 1.761
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



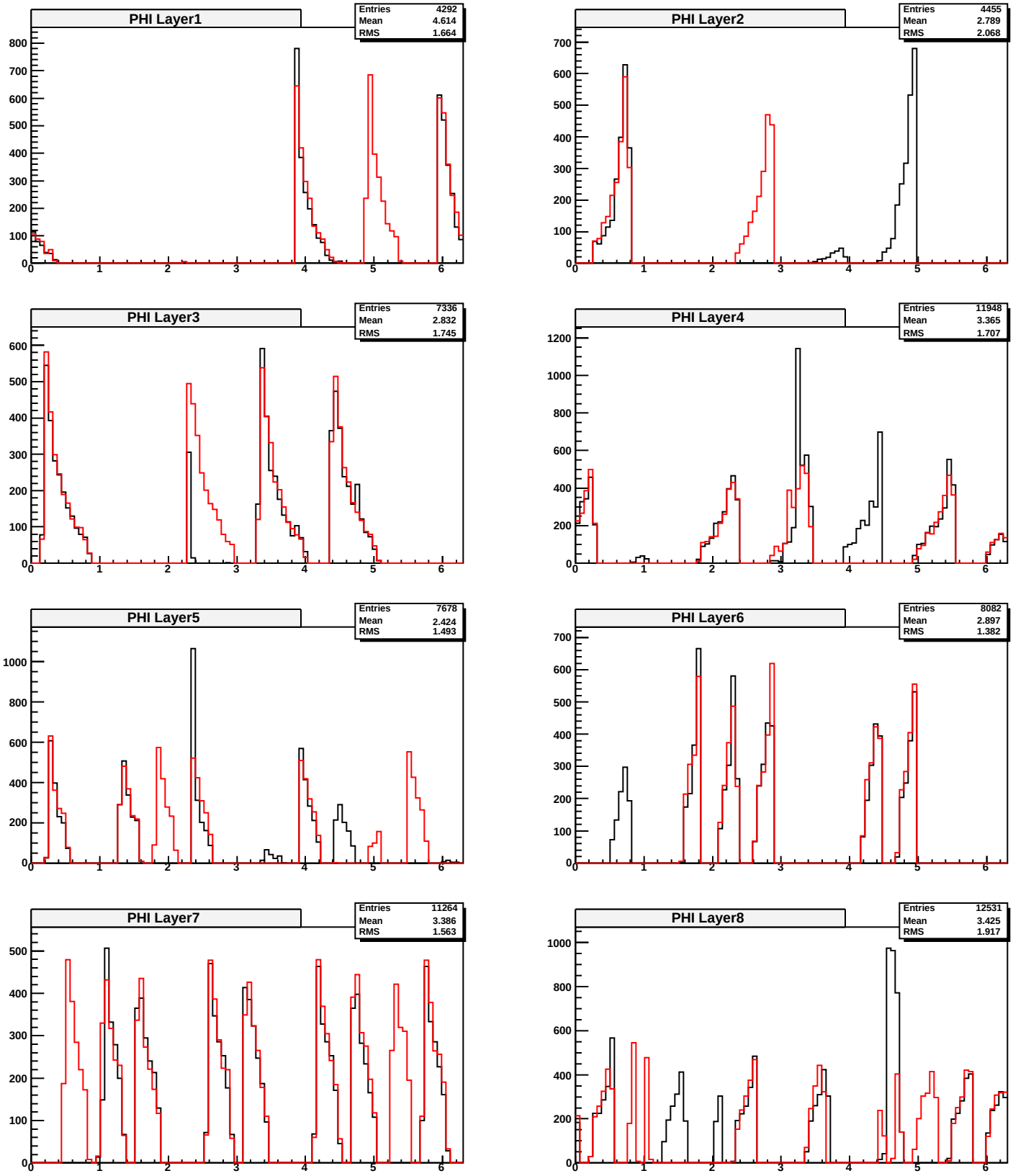

# SmtClusters (ClustrLayer0)



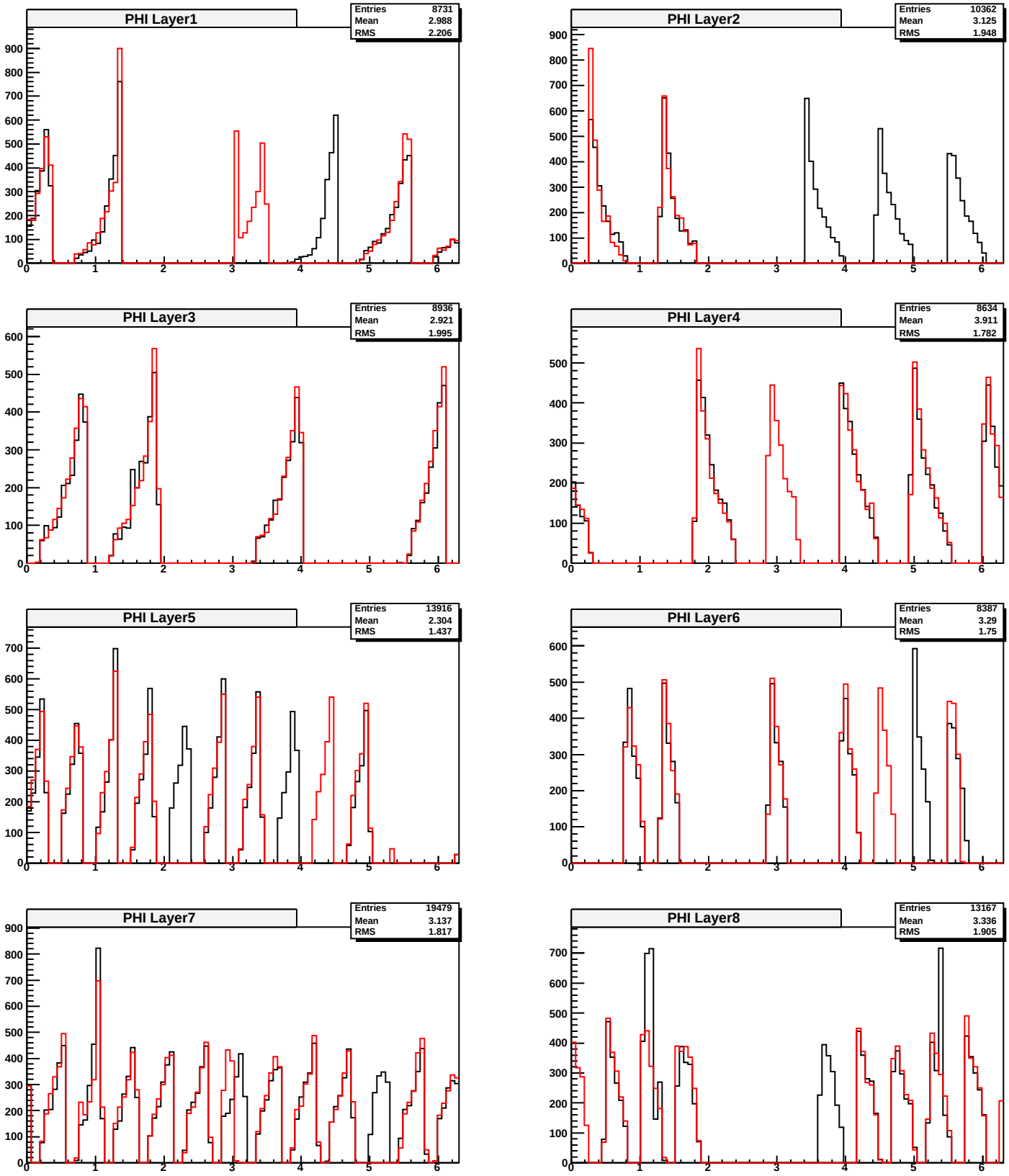

# SmtClusters (ClustrBar1)



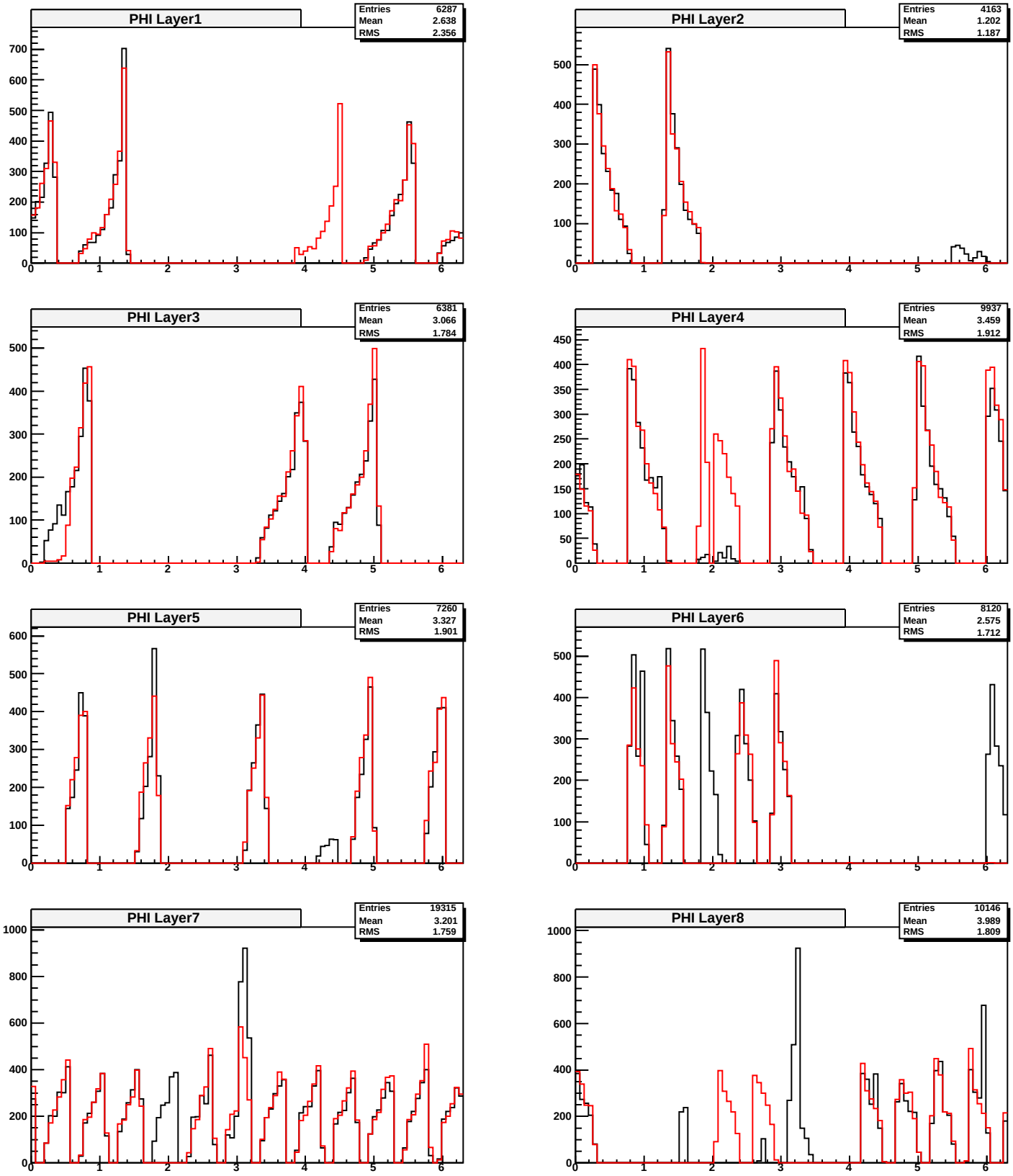

# SmtClusters (ClustrBar2)



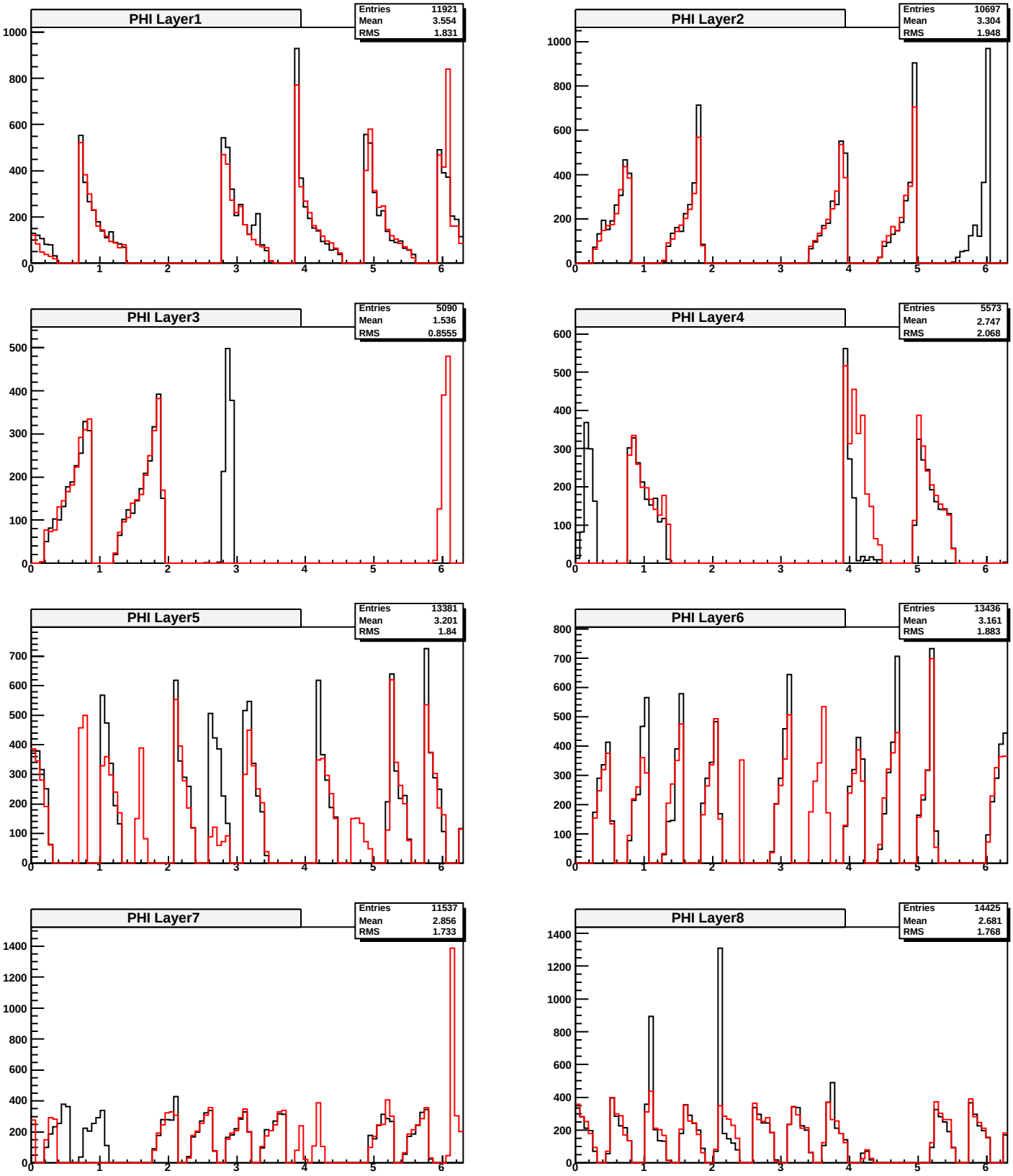

# SmtClusters (ClustrBar3)



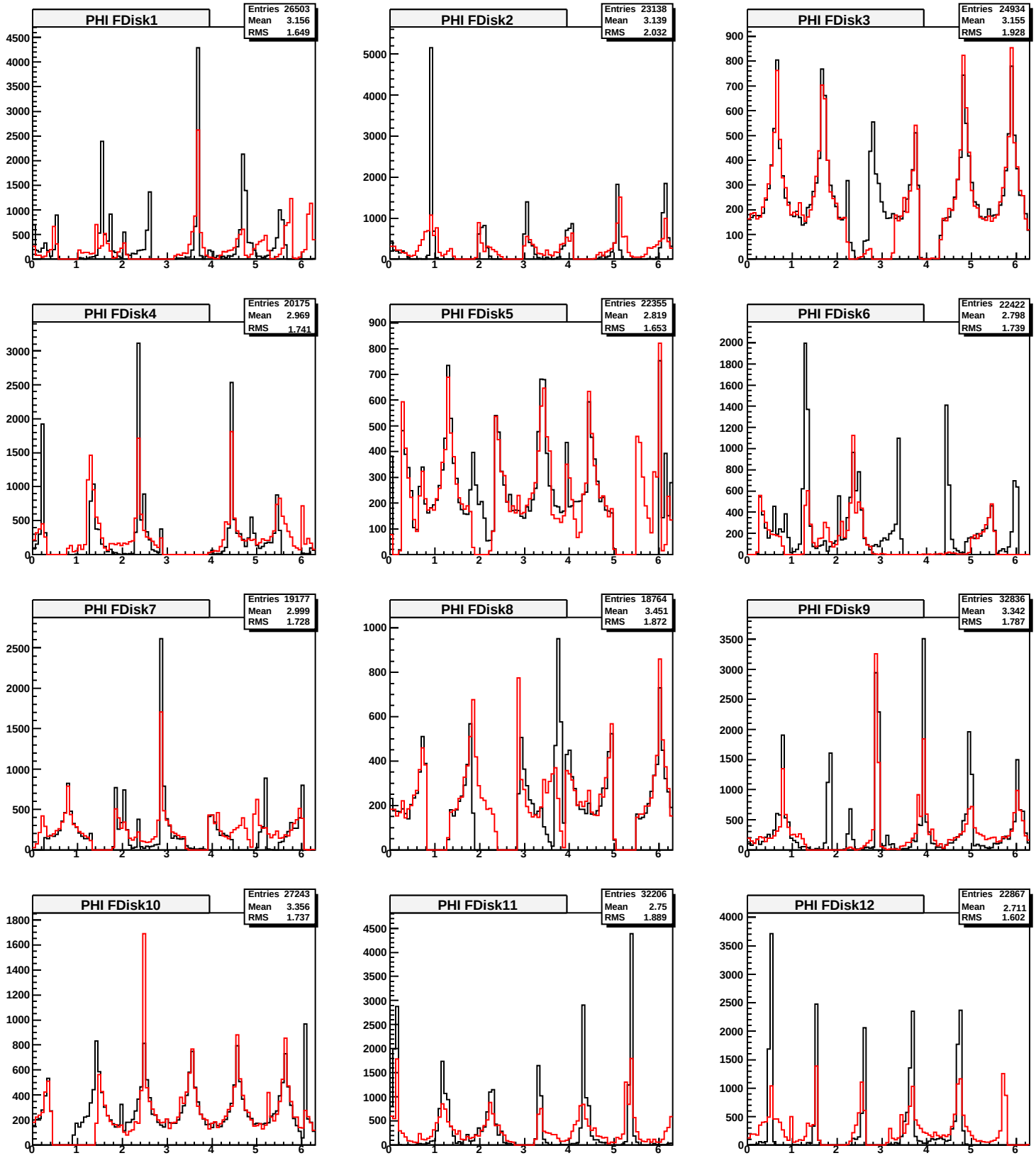

# SmtClusters (ClustrBar4)



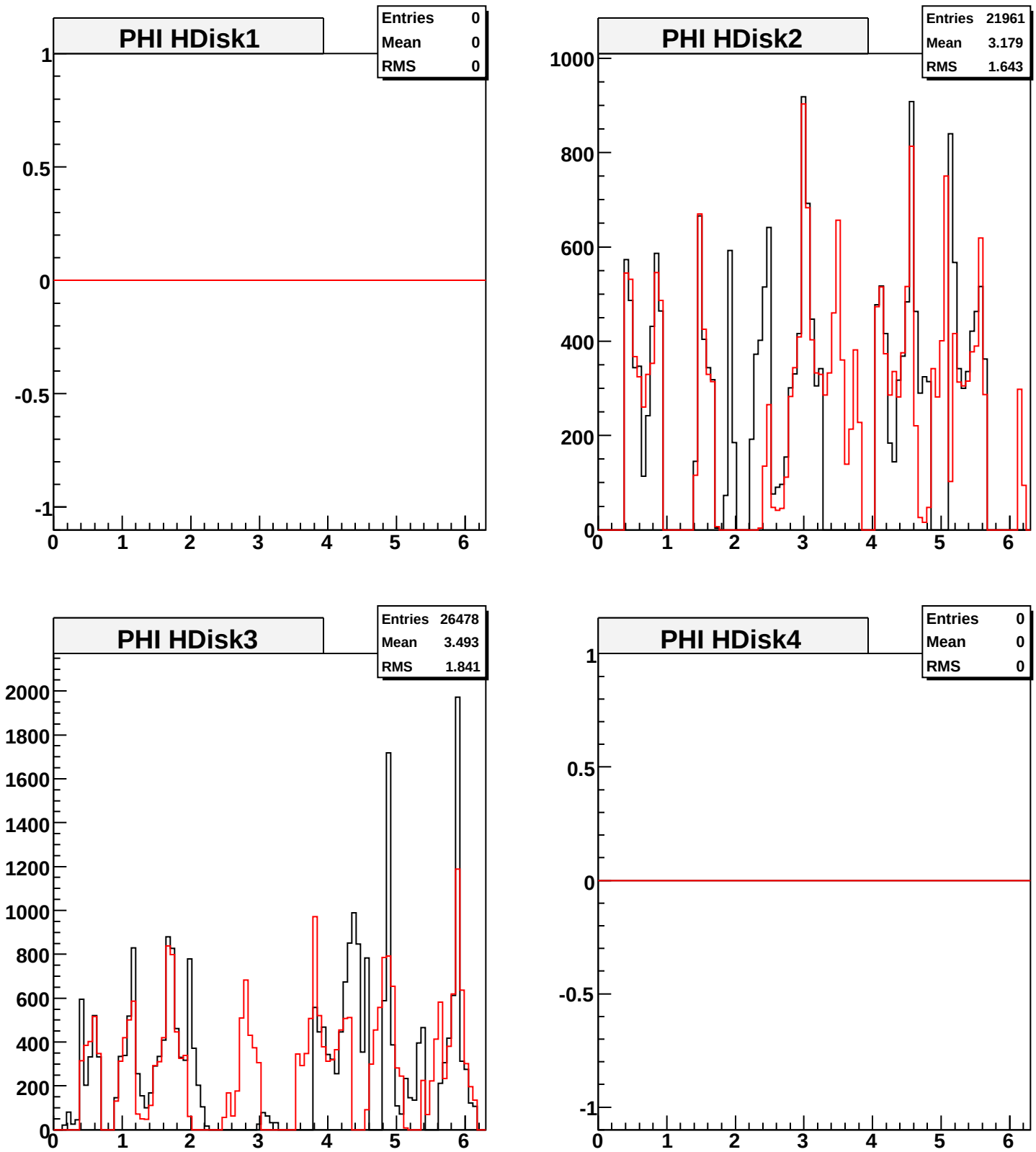

# SmtClusters (ClustrBar5)



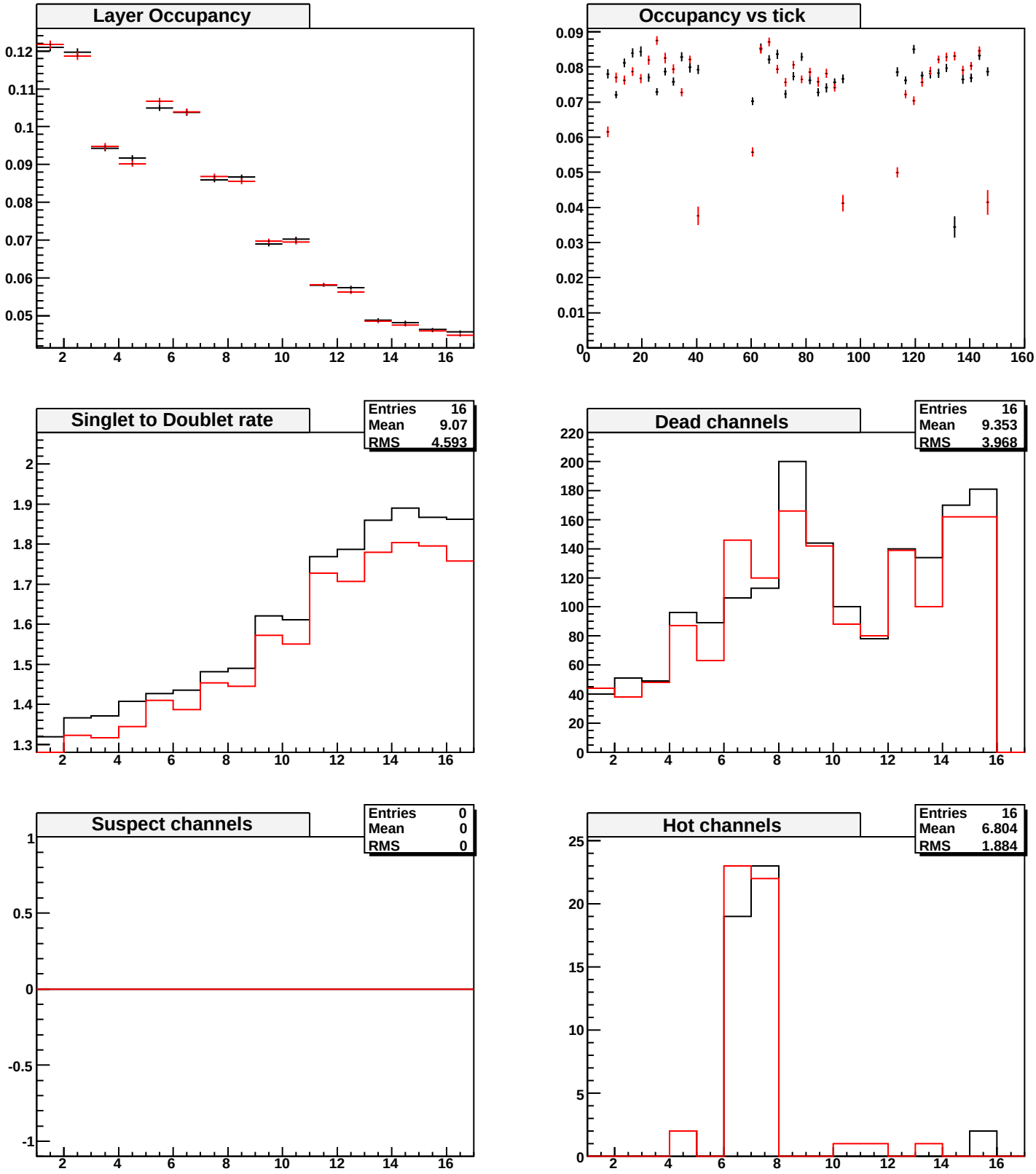

# SmtClusters (ClustrBar6)



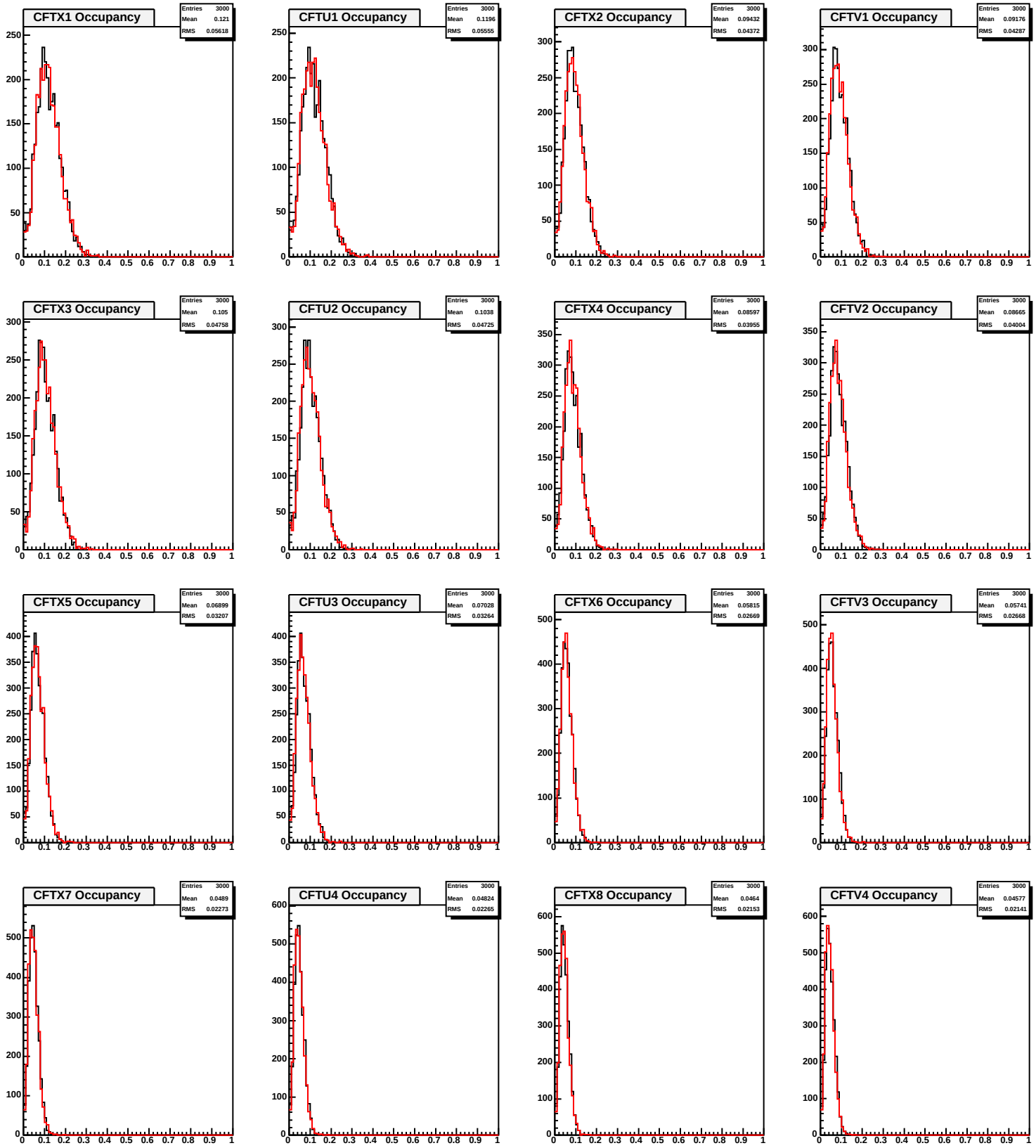

# SmtClusters (FDiskClusters)



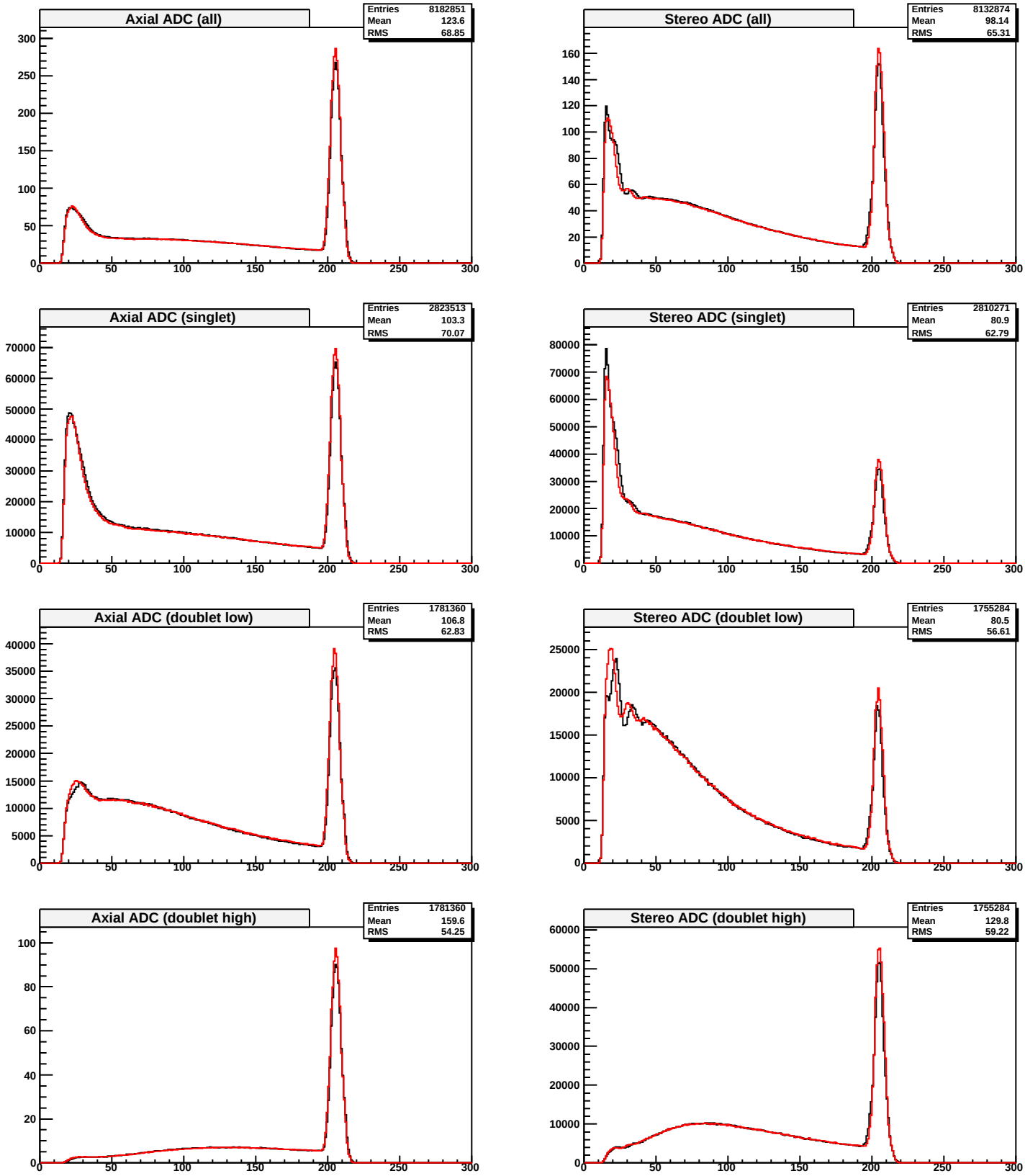

**SmtClusters (HDiskClusters)**



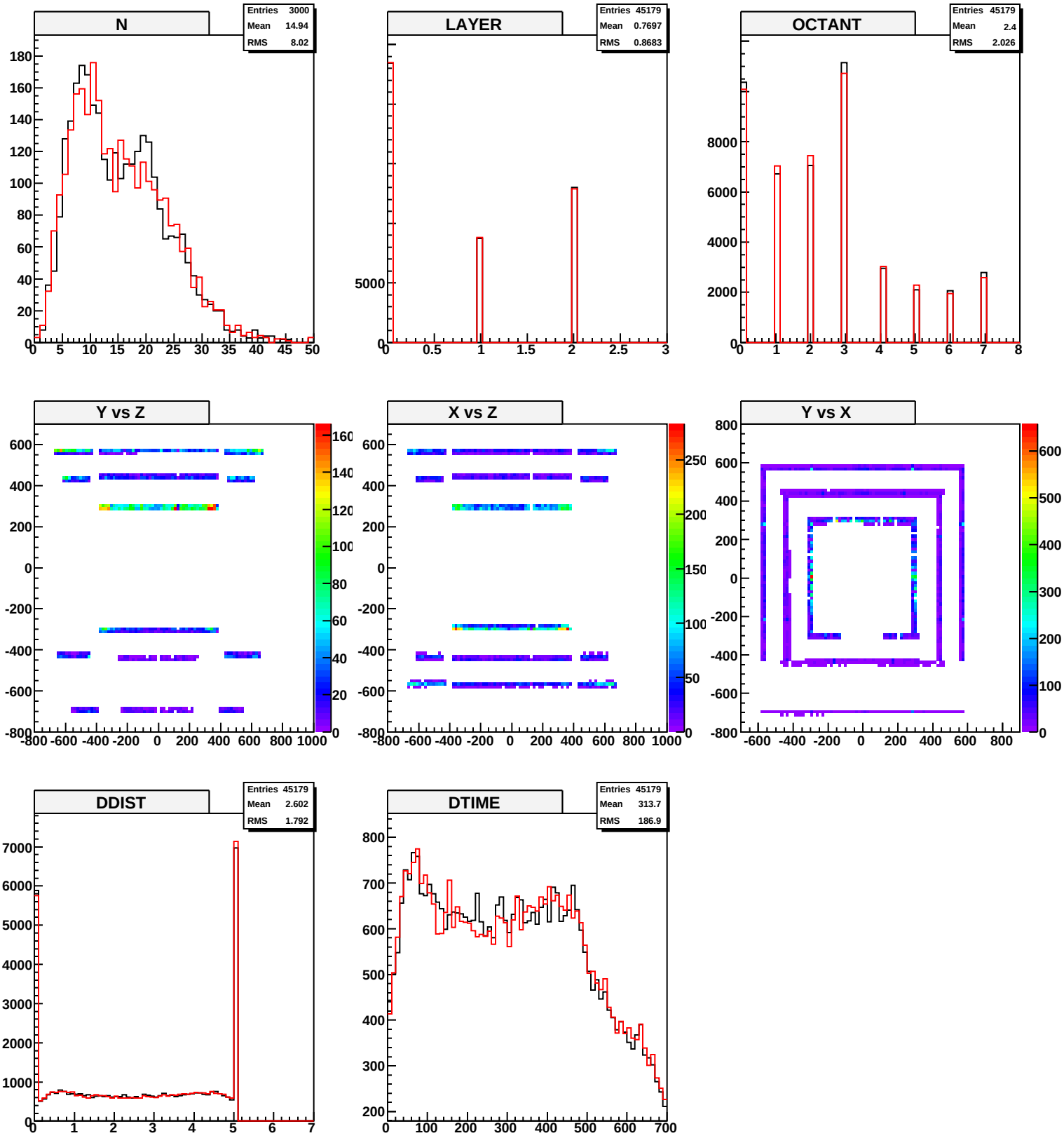

# CFT Summary (All Clusters)



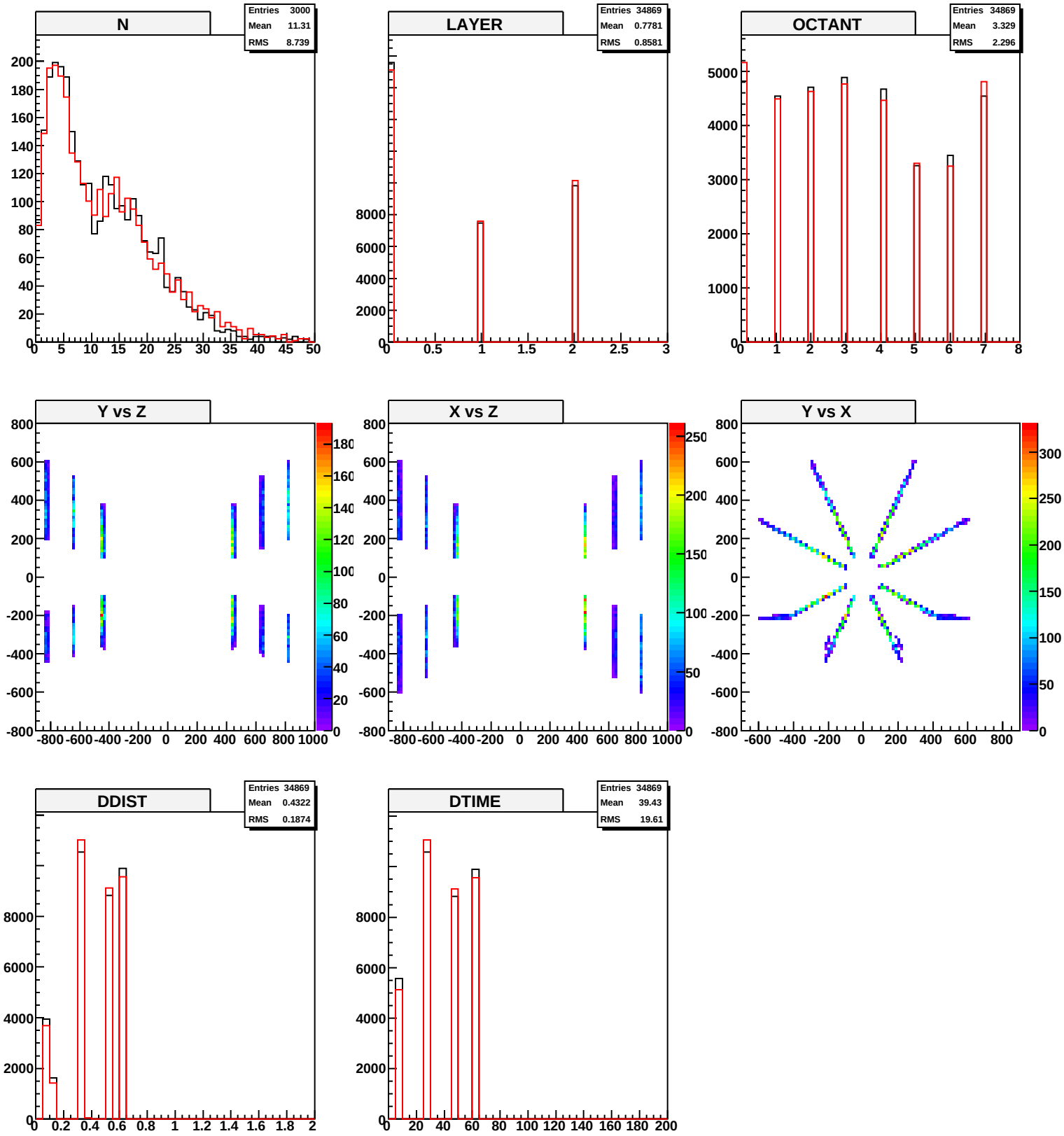

# CFT Occupancy (All Clusters)



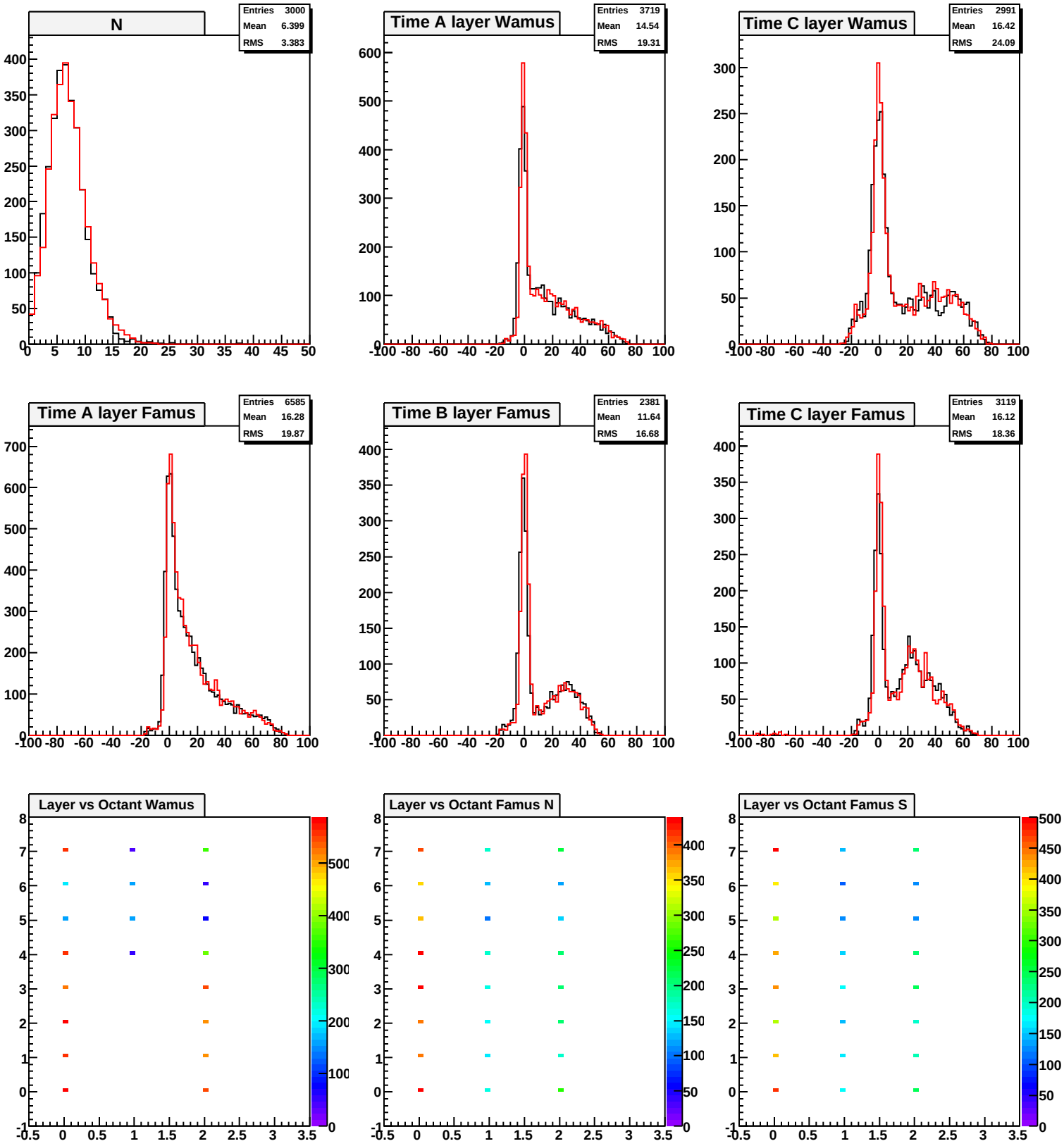

# CFT ADC Summary (All Clusters)


N
Entries 3000
Mean 14.94
RMS 8.02
LAYER
Entries 45179
Mean 0.7697
RMS 0.8683
OCTANT
Entries 45179
Mean 2.4
RMS 2.026
Y vs Z
X vs Z
Y vs X
DDIST
Entries 45179
Mean 2.602
RMS 1.792
DTIME
Entries 45179
Mean 313.7
RMS 186.9

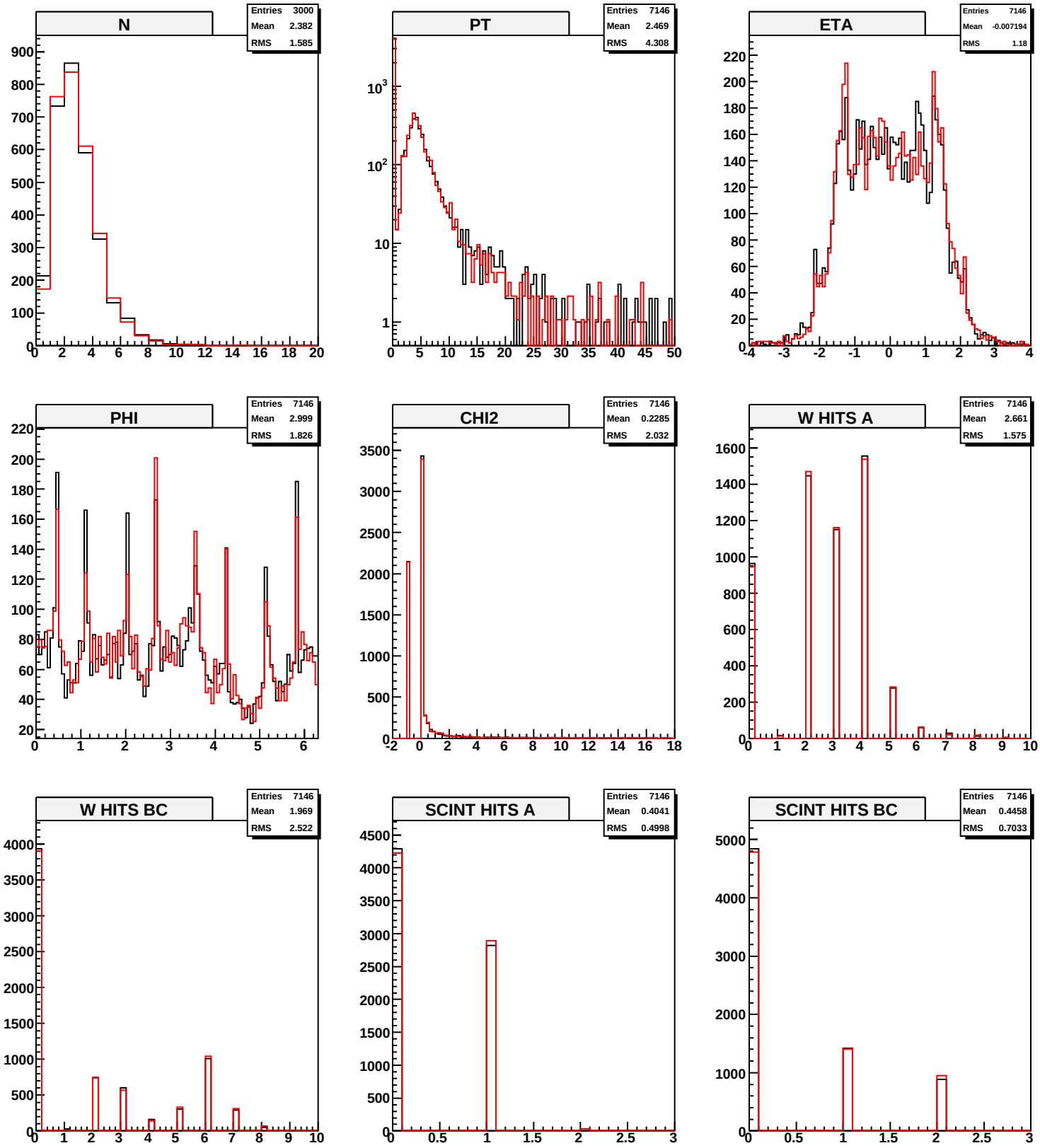
# MuonPDT (All)


N
Entries 3000
Mean 11.31
RMS 8.739
LAYER
Entries 34869
Mean 0.7781
RMS 0.8581
OCTANT
Entries 34869
Mean 3.329
RMS 2.296
Y vs Z
X vs Z
Y vs X
DDIST
Entries 34869
Mean 0.4322
RMS 0.1874
DTIME
Entries 34869
Mean 39.43
RMS 19.61

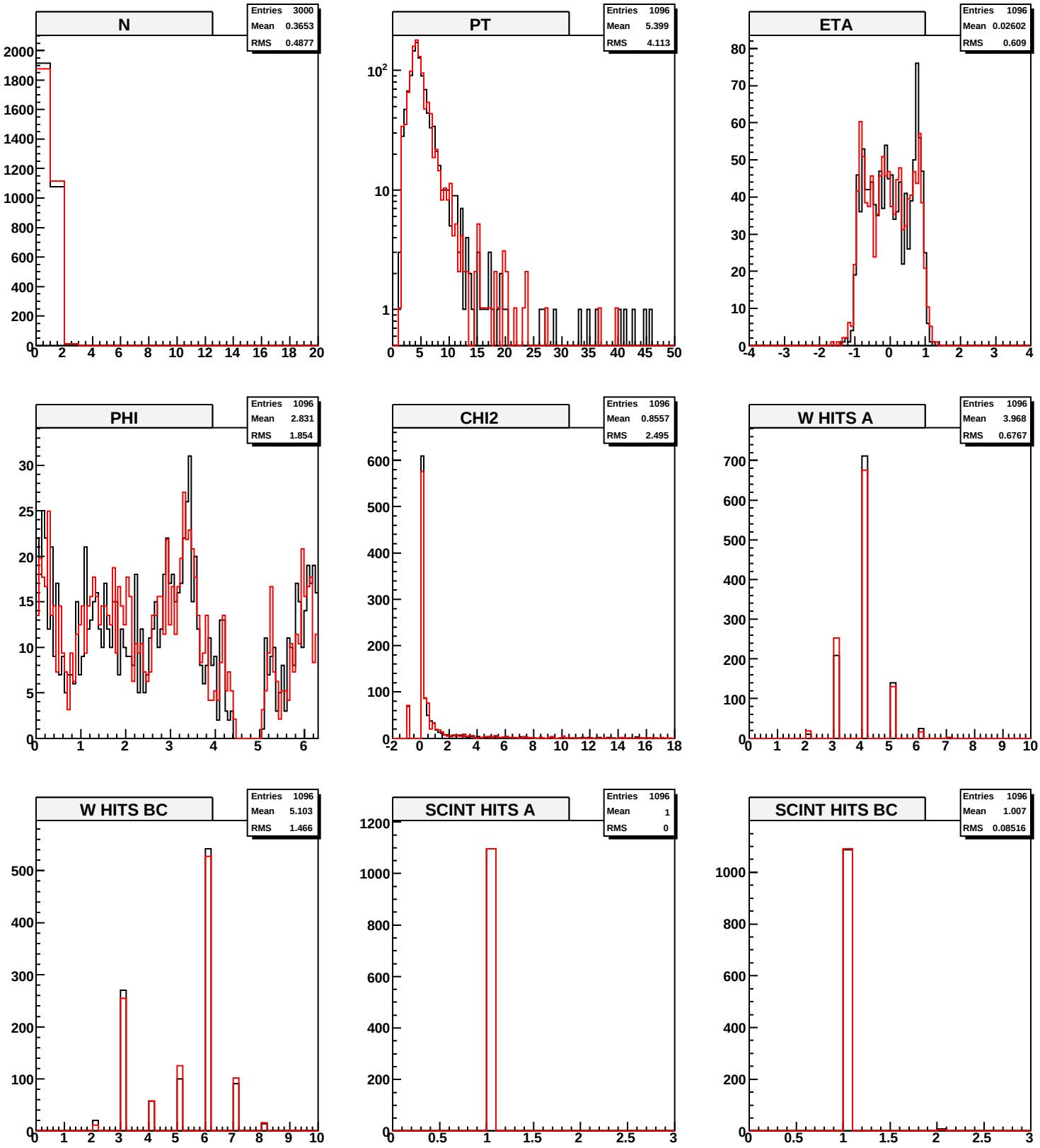
# MuonMDT (All)


N
Entries 3000
Mean 6.399
RMS 3.383
Time A layer Wamus
Entries 3719
Mean 14.54
RMS 19.31
Time C layer Wamus
Entries 2991
Mean 16.42
RMS 24.09
Time A layer Famus
Entries 6585
Mean 16.28
RMS 19.87
Time B layer Famus
Entries 2381
Mean 11.64
RMS 16.68
Time C layer Famus
Entries 3119
Mean 16.12
RMS 18.36
Layer vs Octant Wamus
Layer vs Octant Famus N
Layer vs Octant Famus S

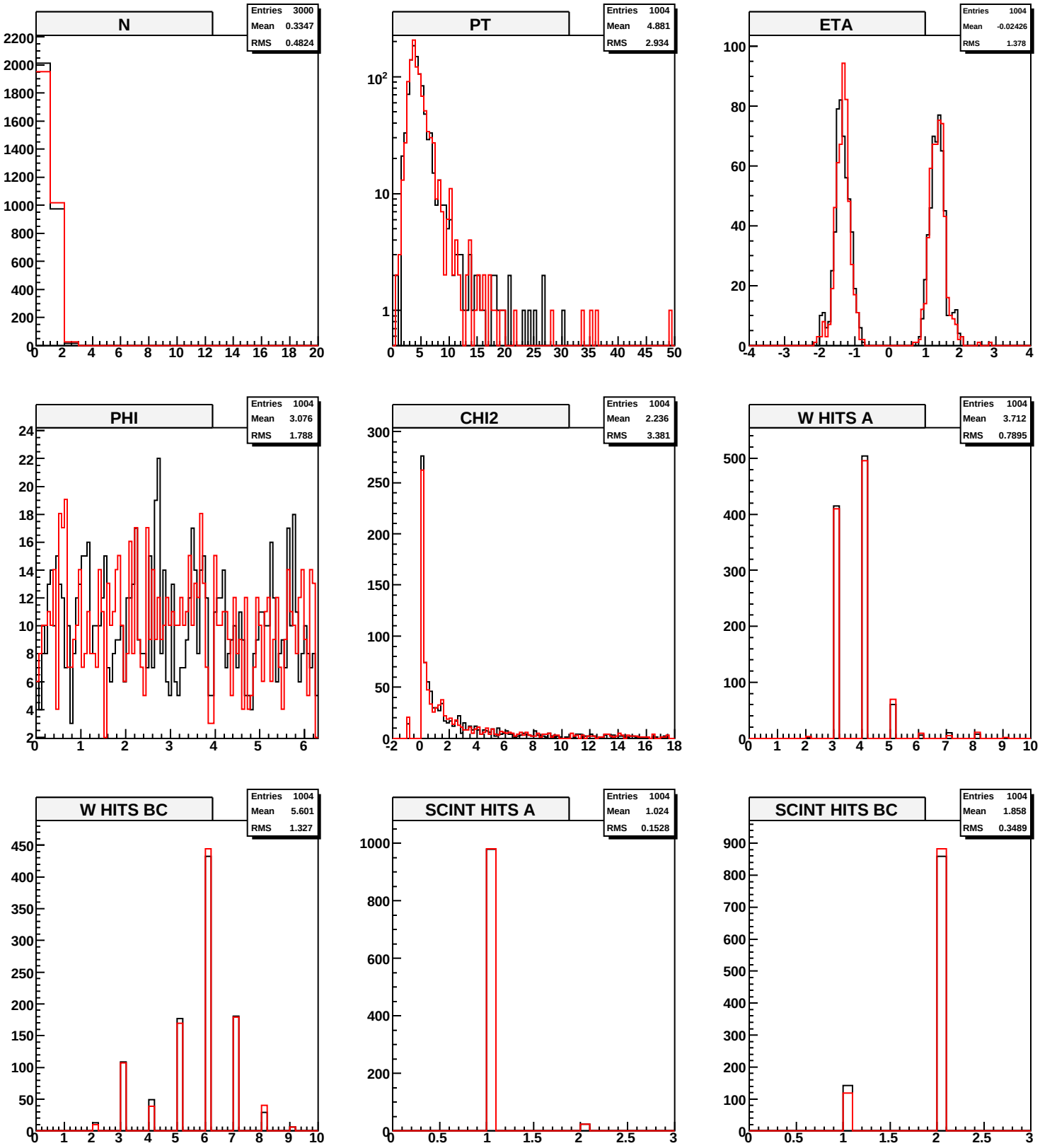
# MuonMSC (All)



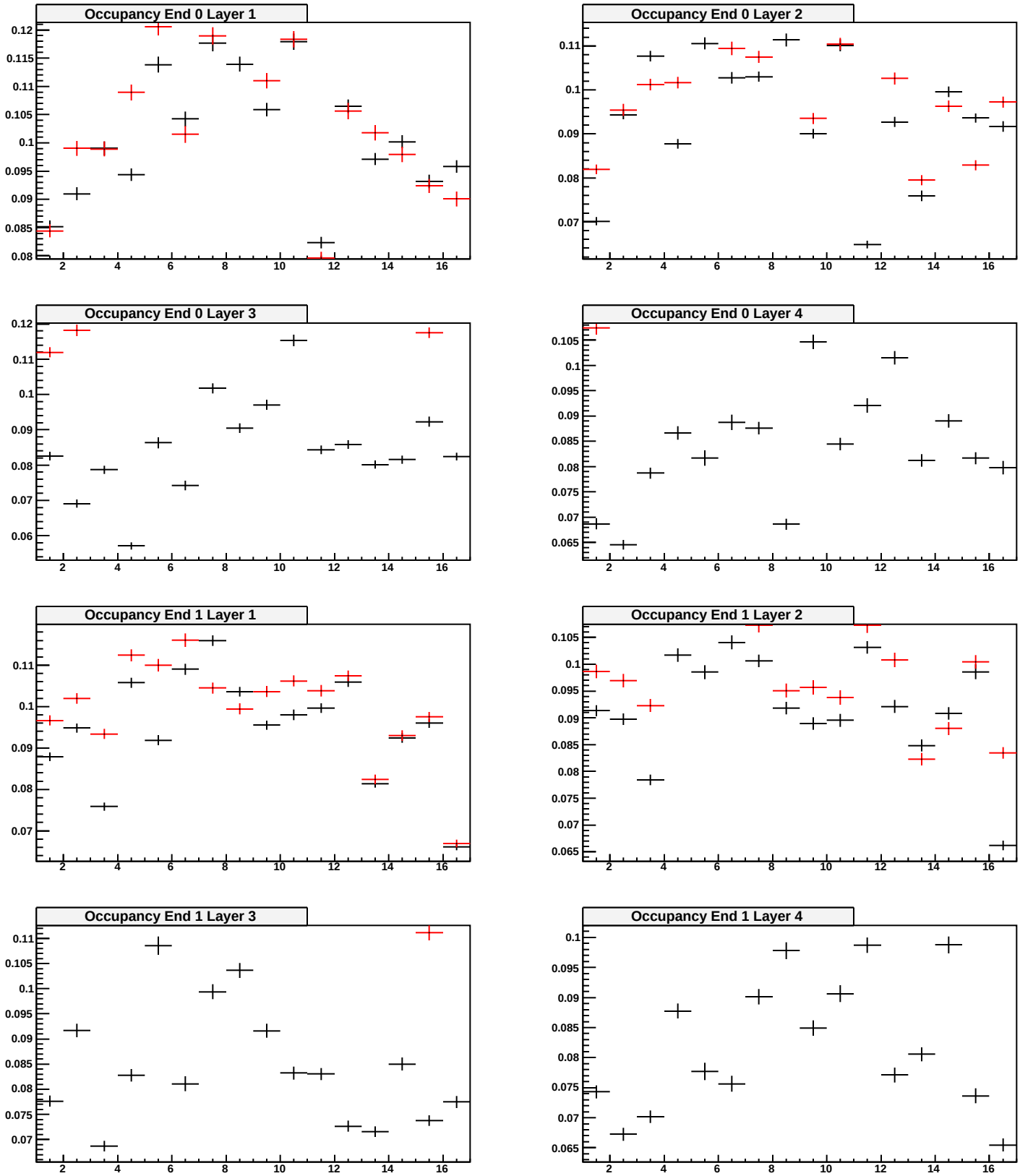

# Muon Local Tracks (All)



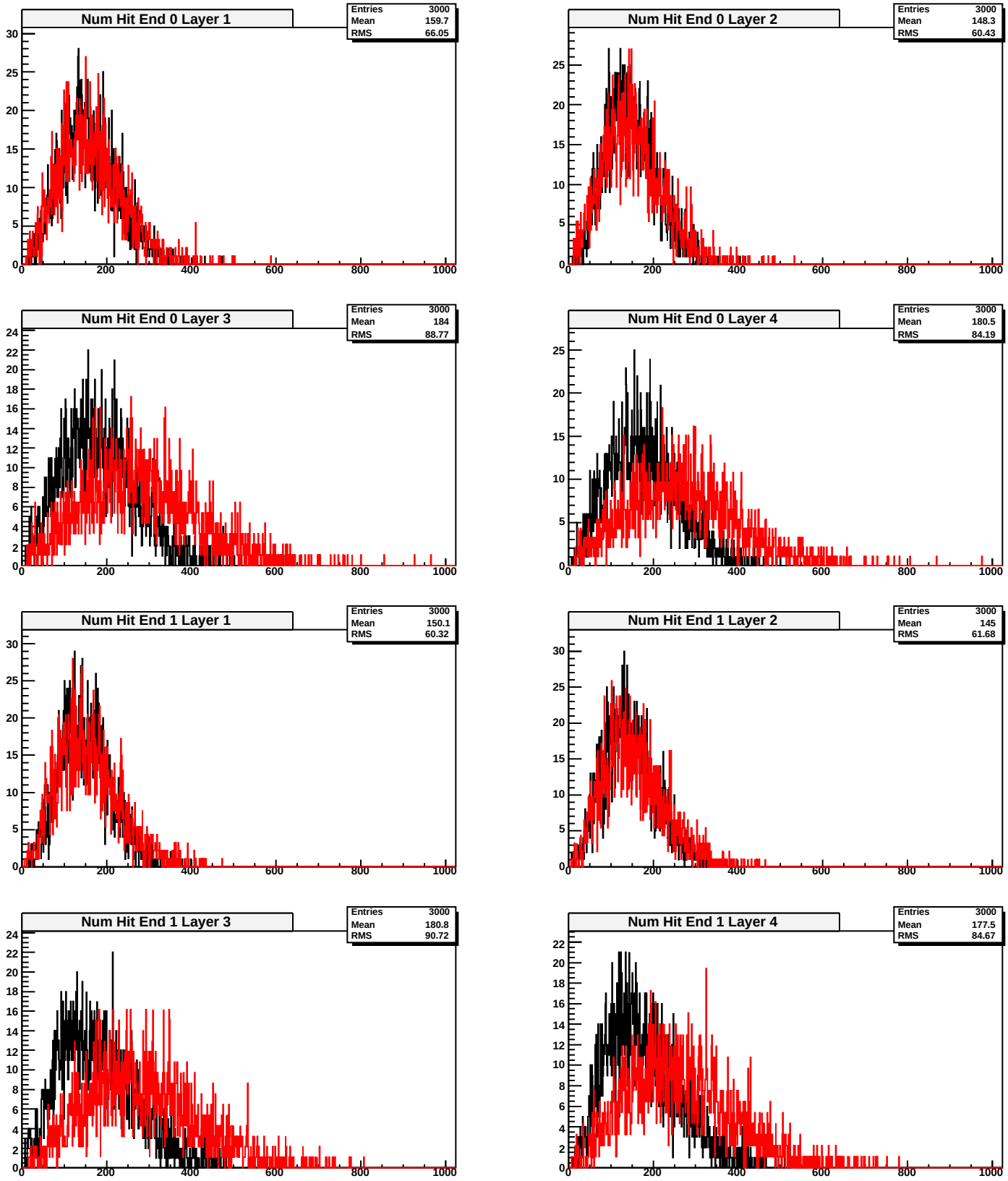

# Muon Local Tracks (MediumWamus)



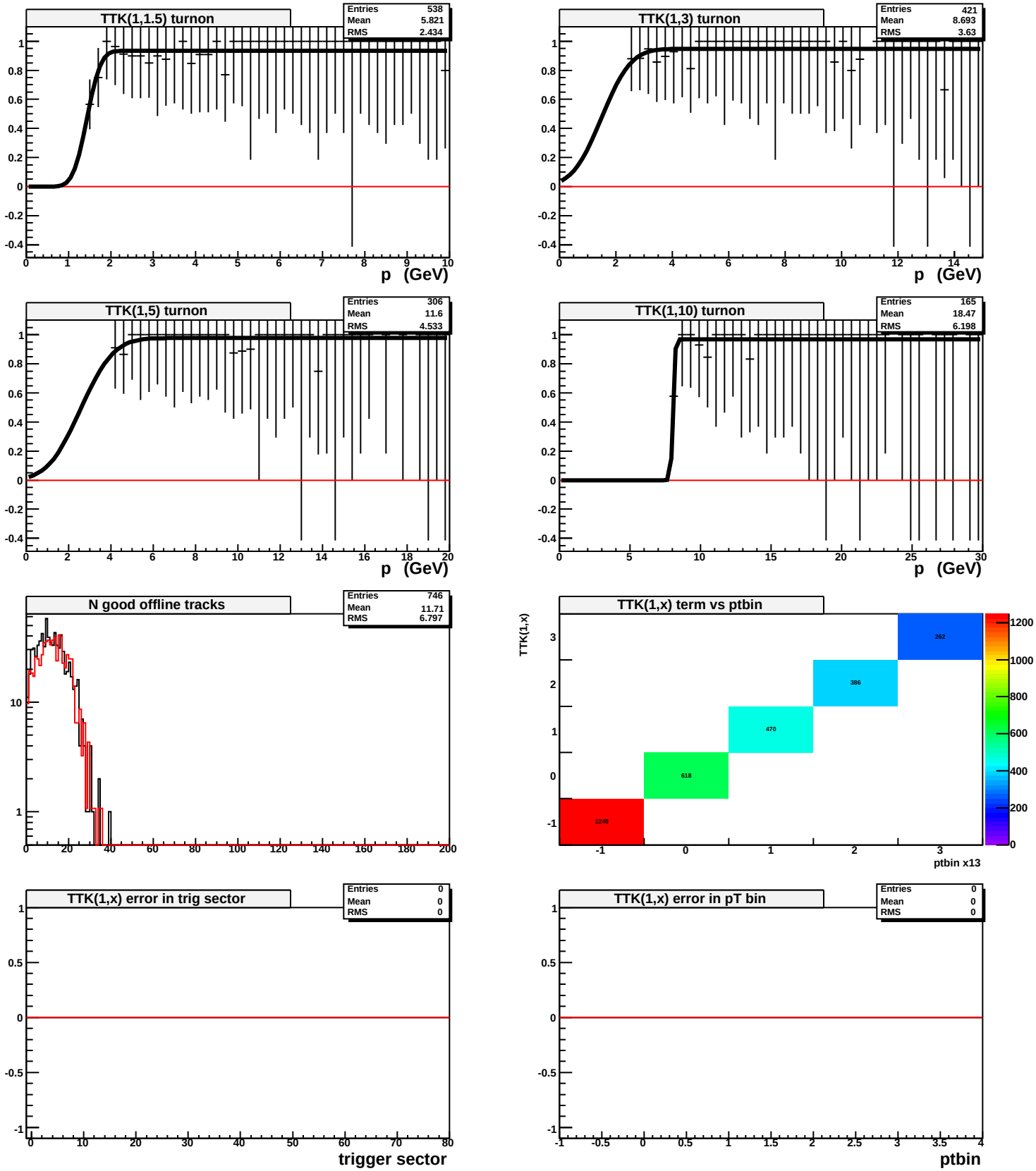

# Muon Local Tracks (MediumFamus)



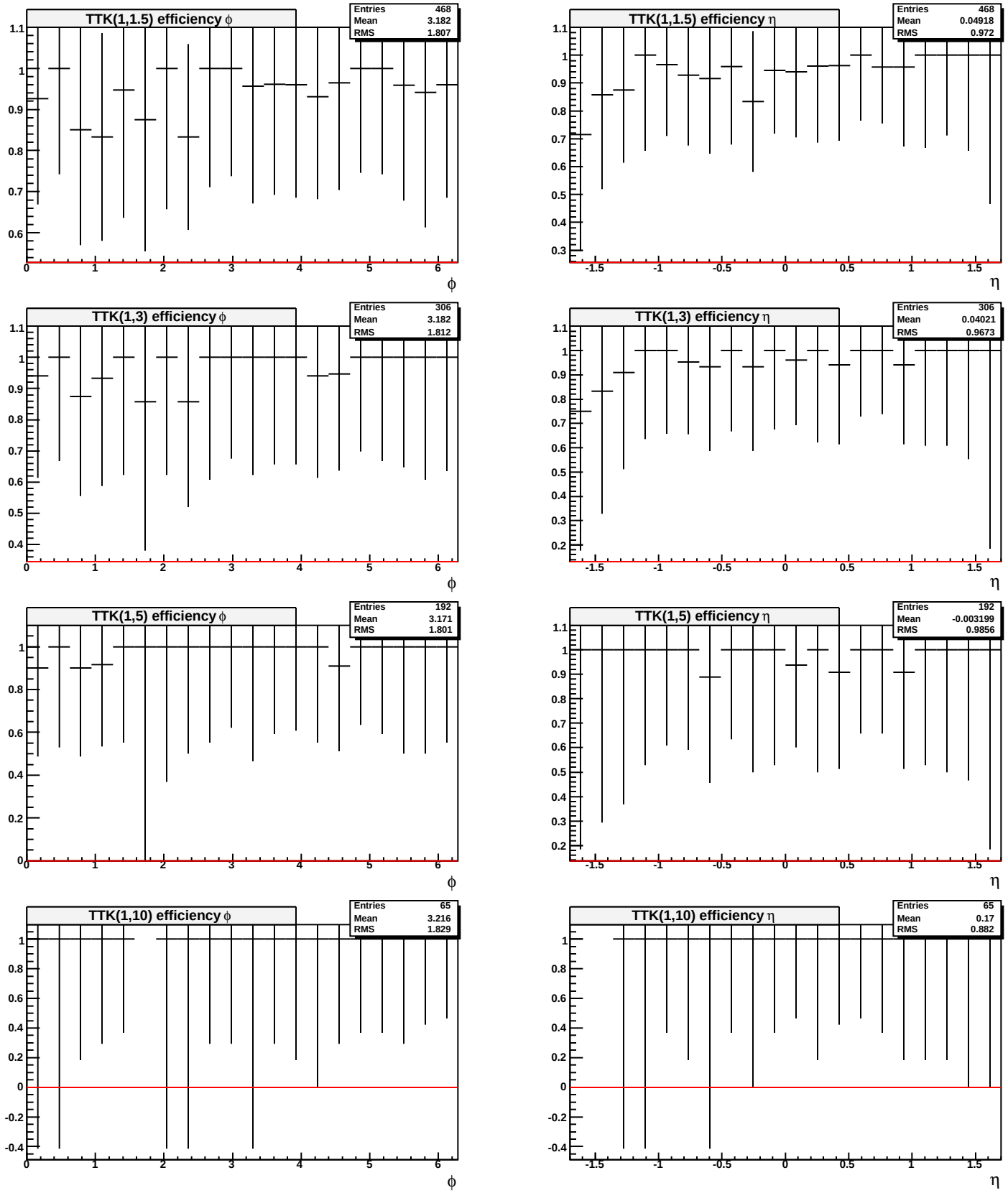

# FPS Hit Occupancy (All)



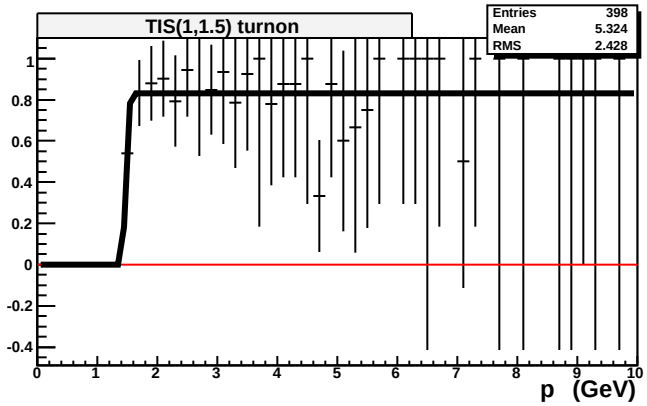

# FPS Number of Hits (All)

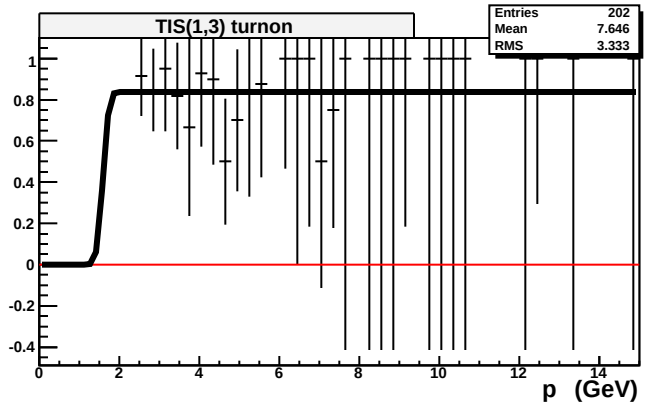


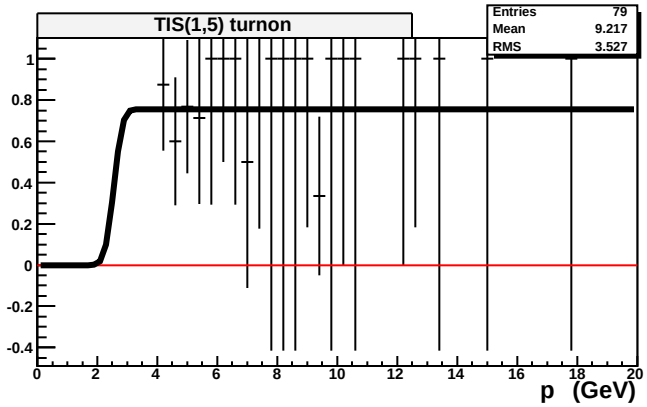

# TTK (L1CTT All)

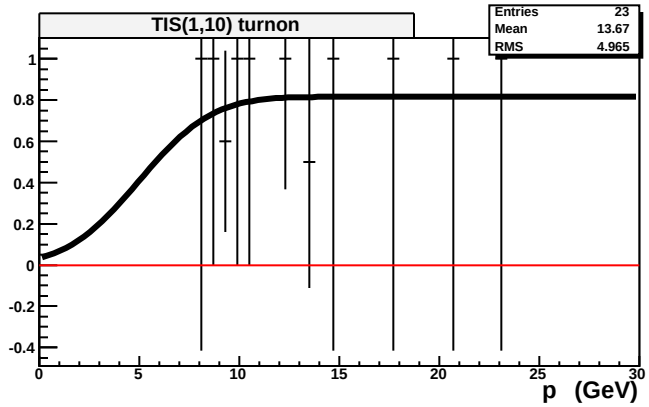


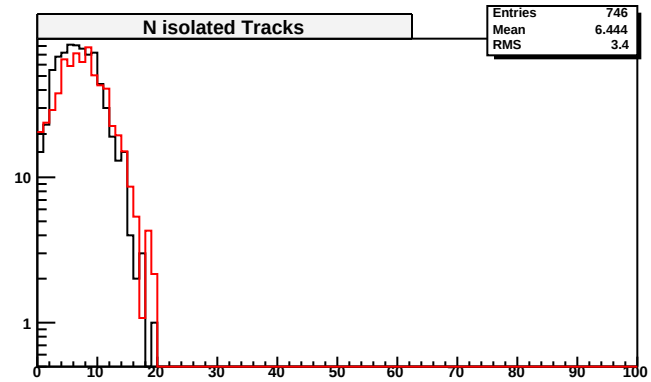

# TTK phi/eta (L1CTT All)

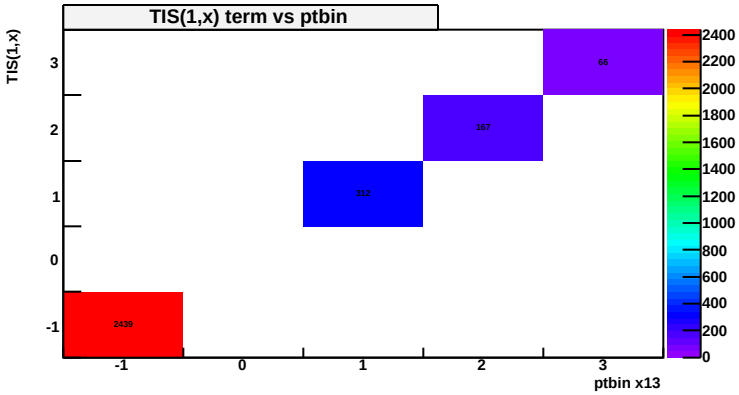


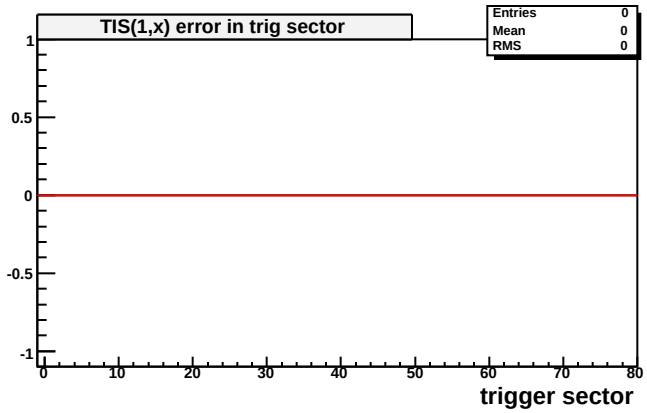



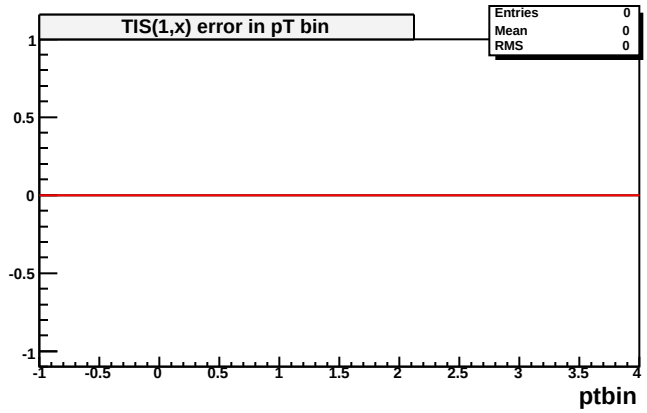



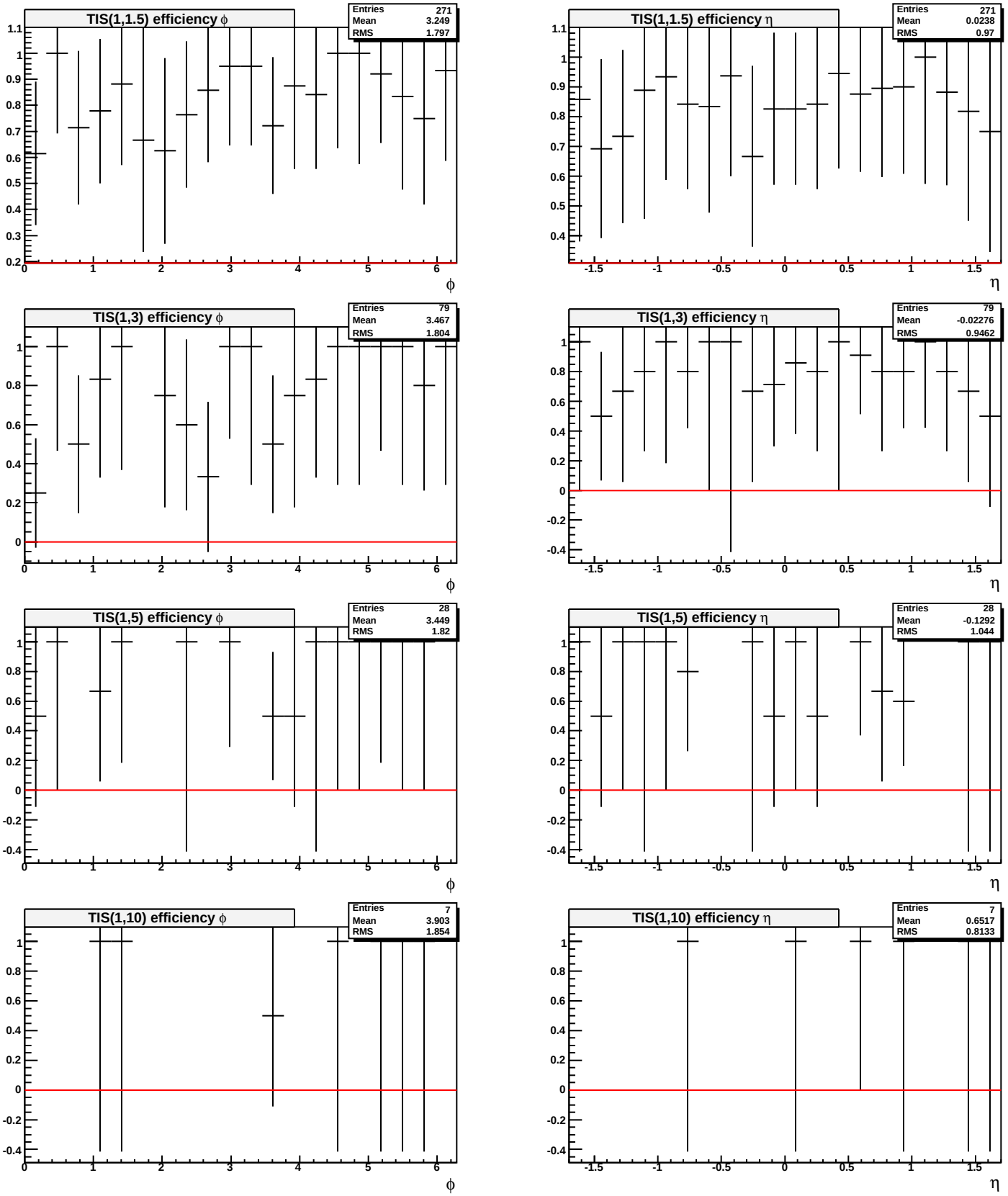



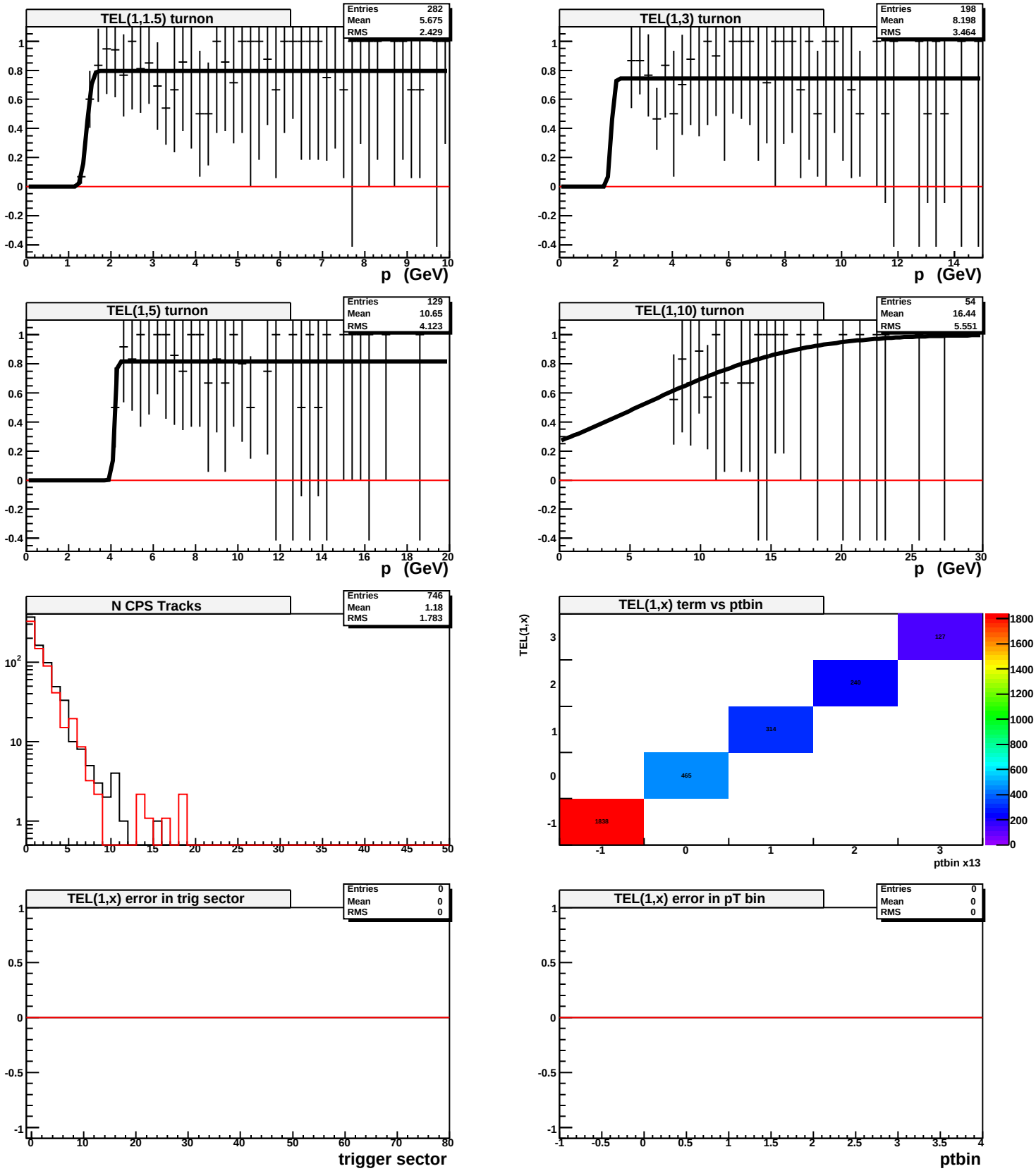



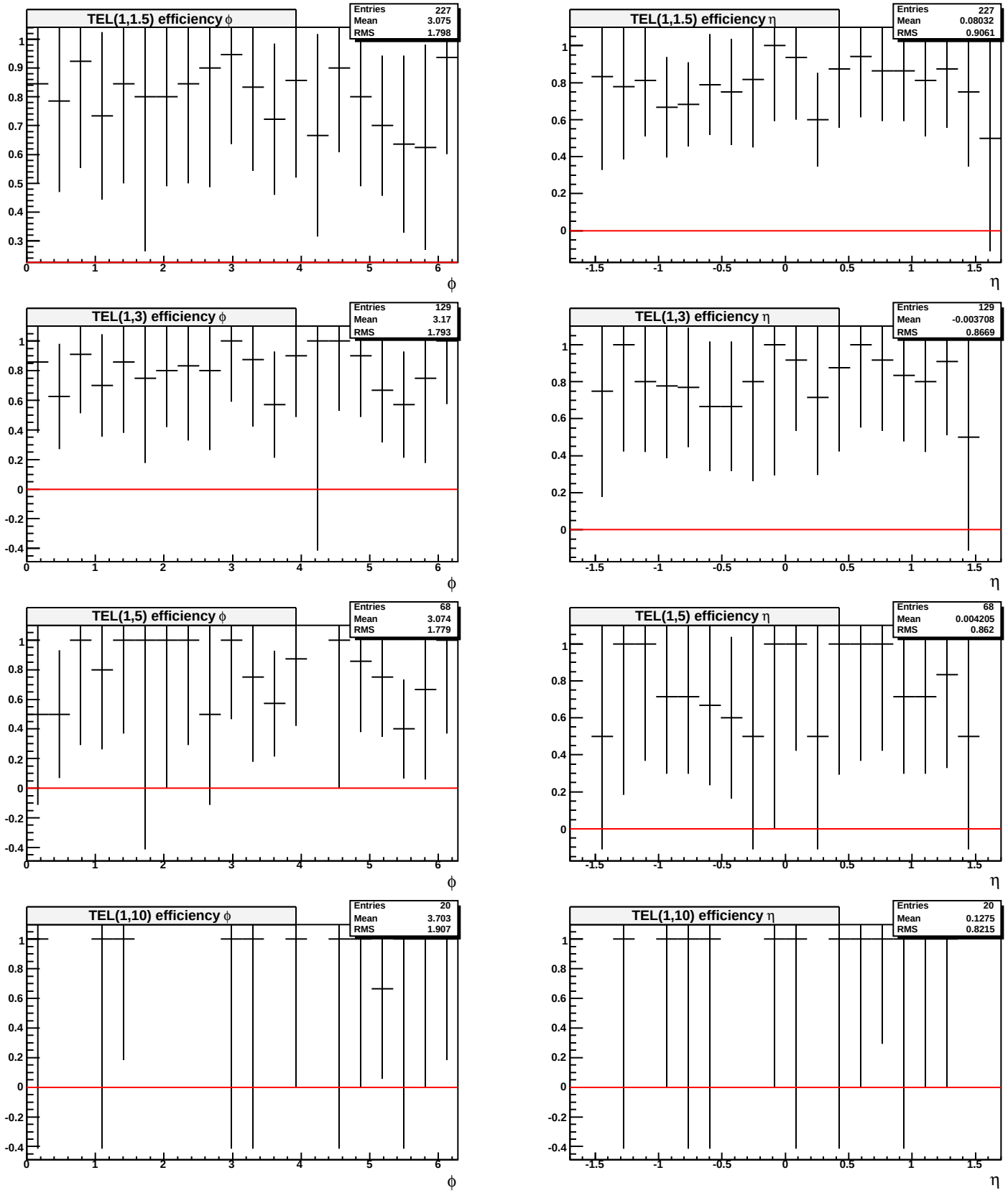

# TIS (L1CTT All)



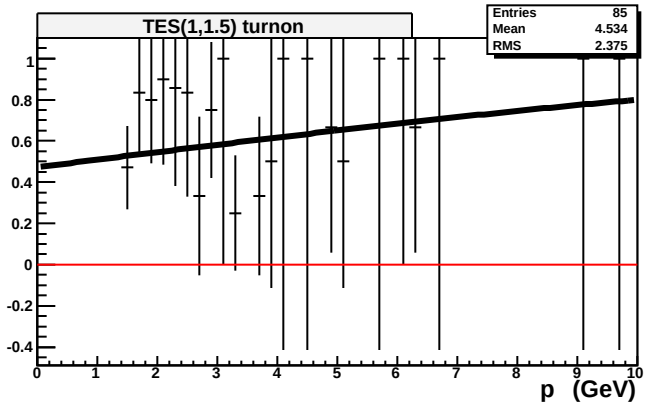

# TIS phi/eta (L1CTT All)

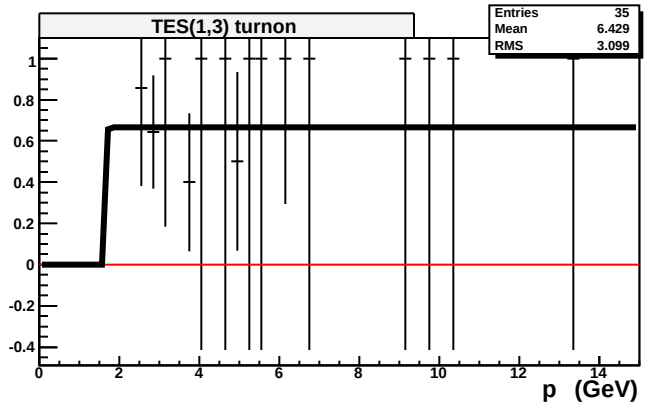


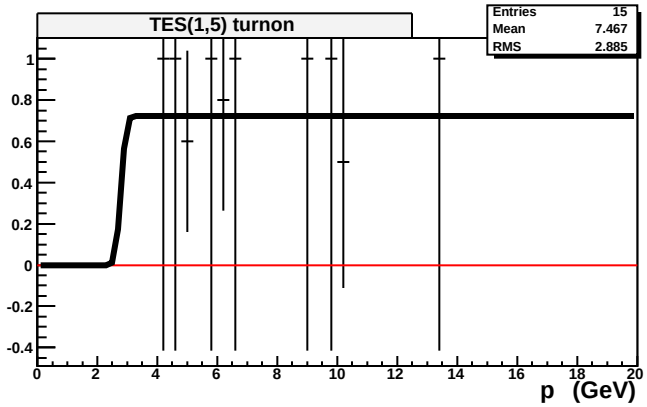

# TEL (L1CTT All)

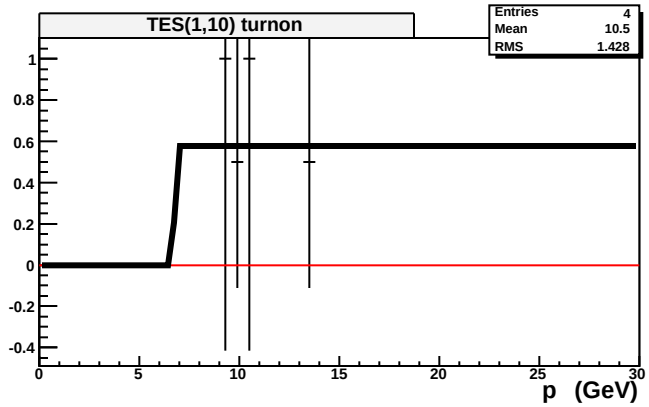


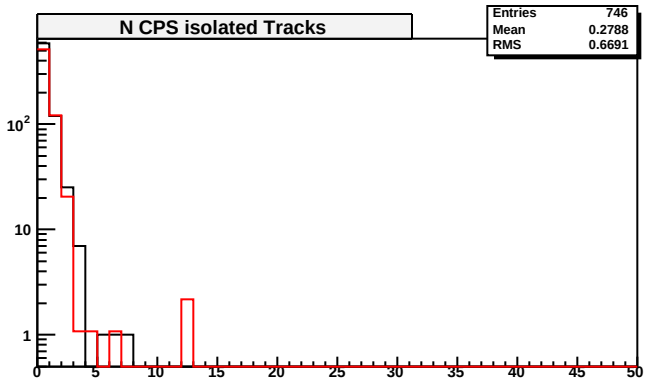

# TEL phi/eta (L1CTT All)

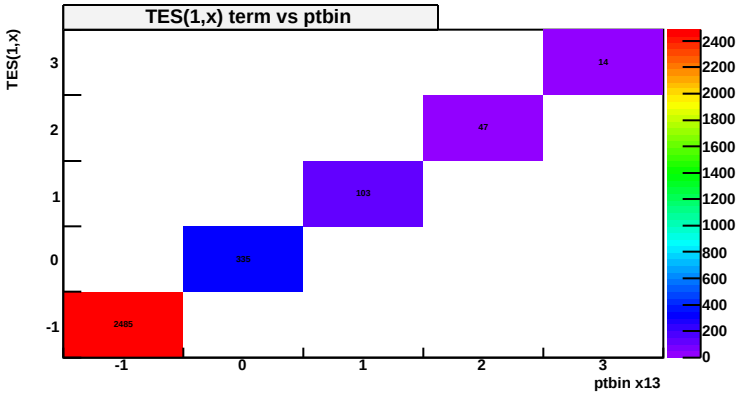


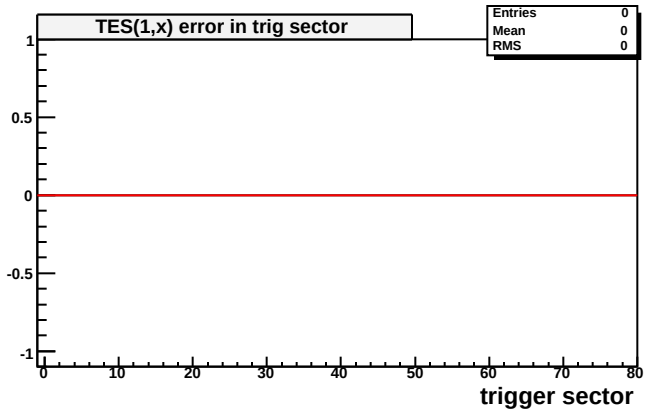



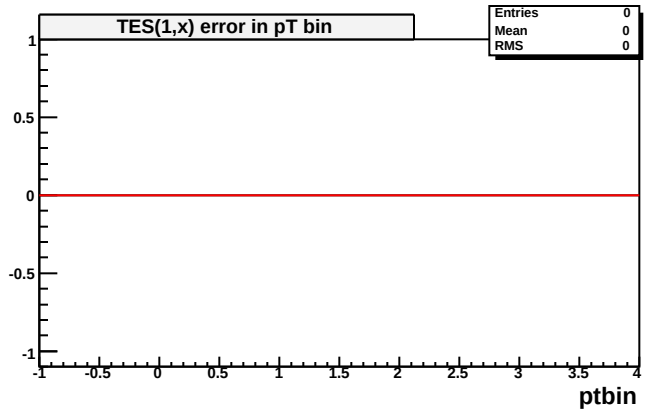



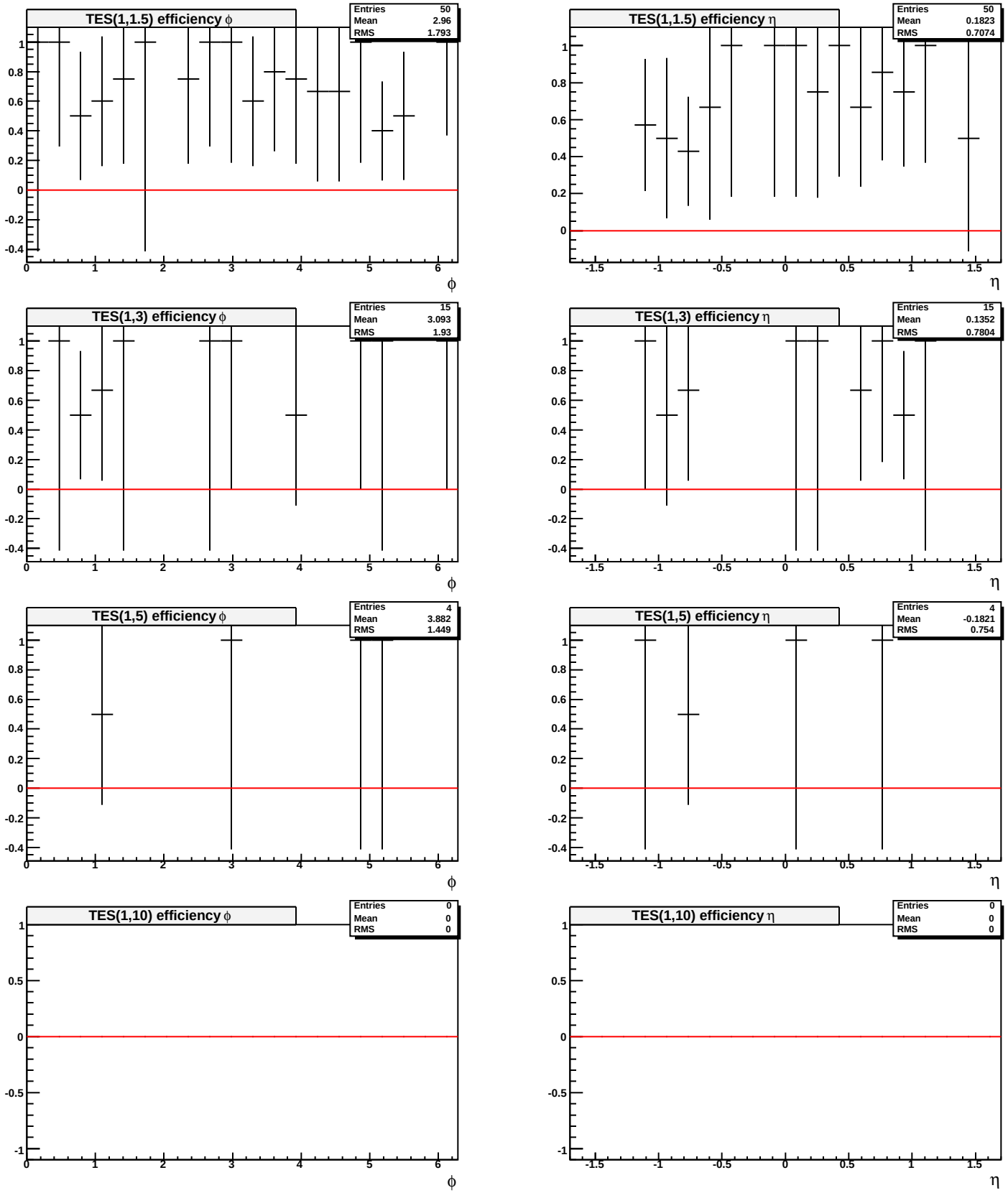



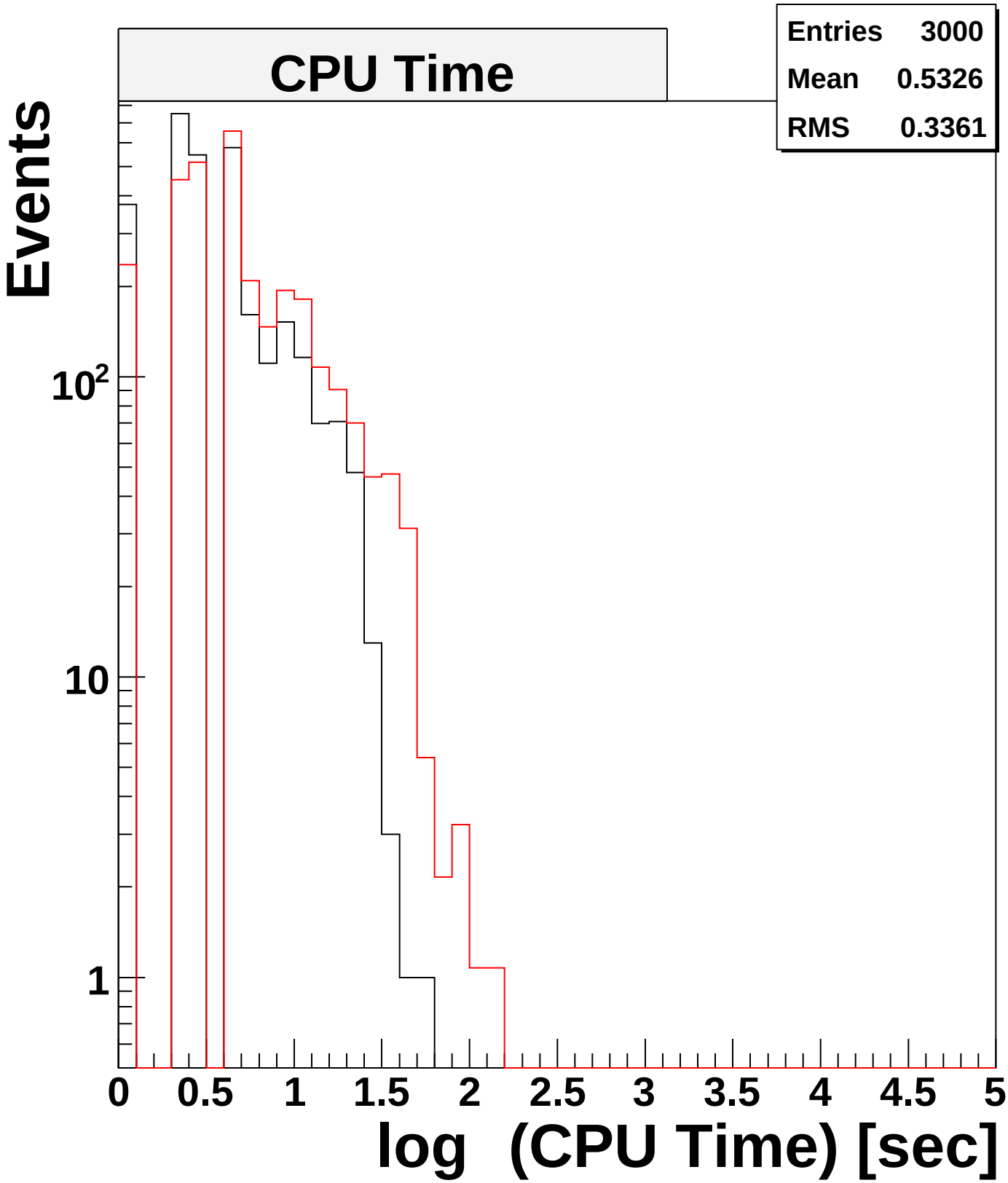




# TES (L1CTT All)




# TES phi/eta (L1CTT All)




RECO Performance (Timing)