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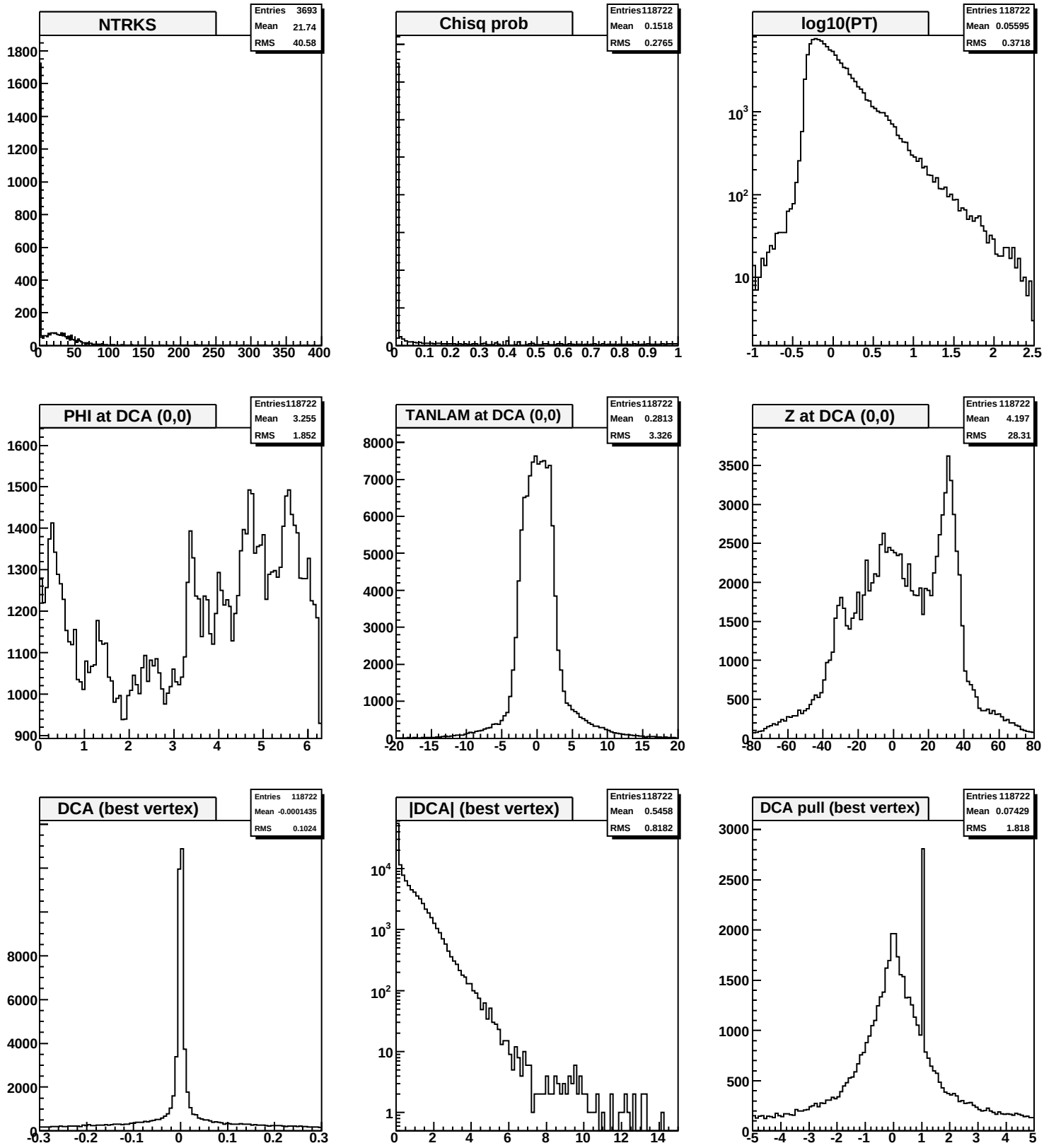
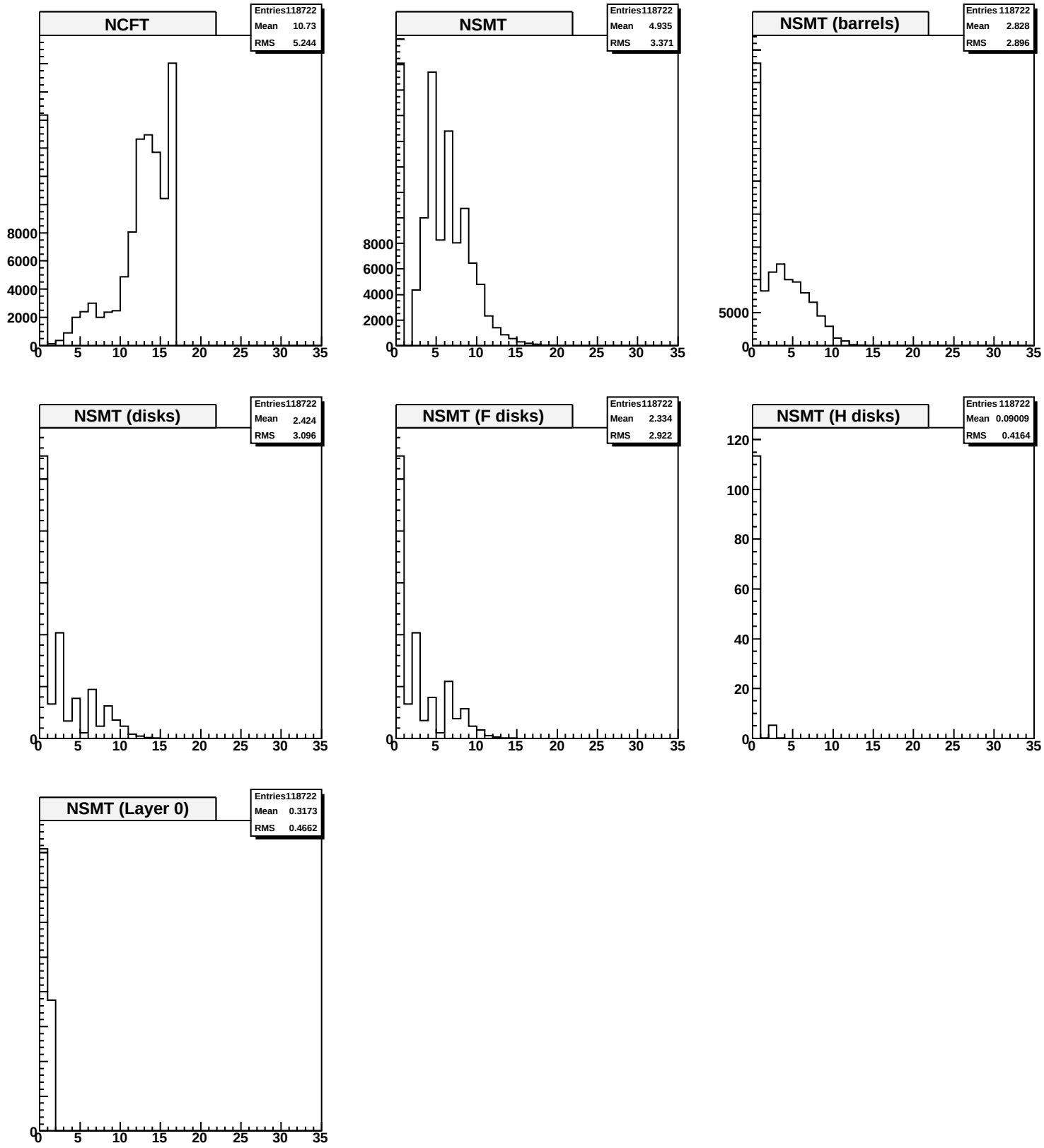
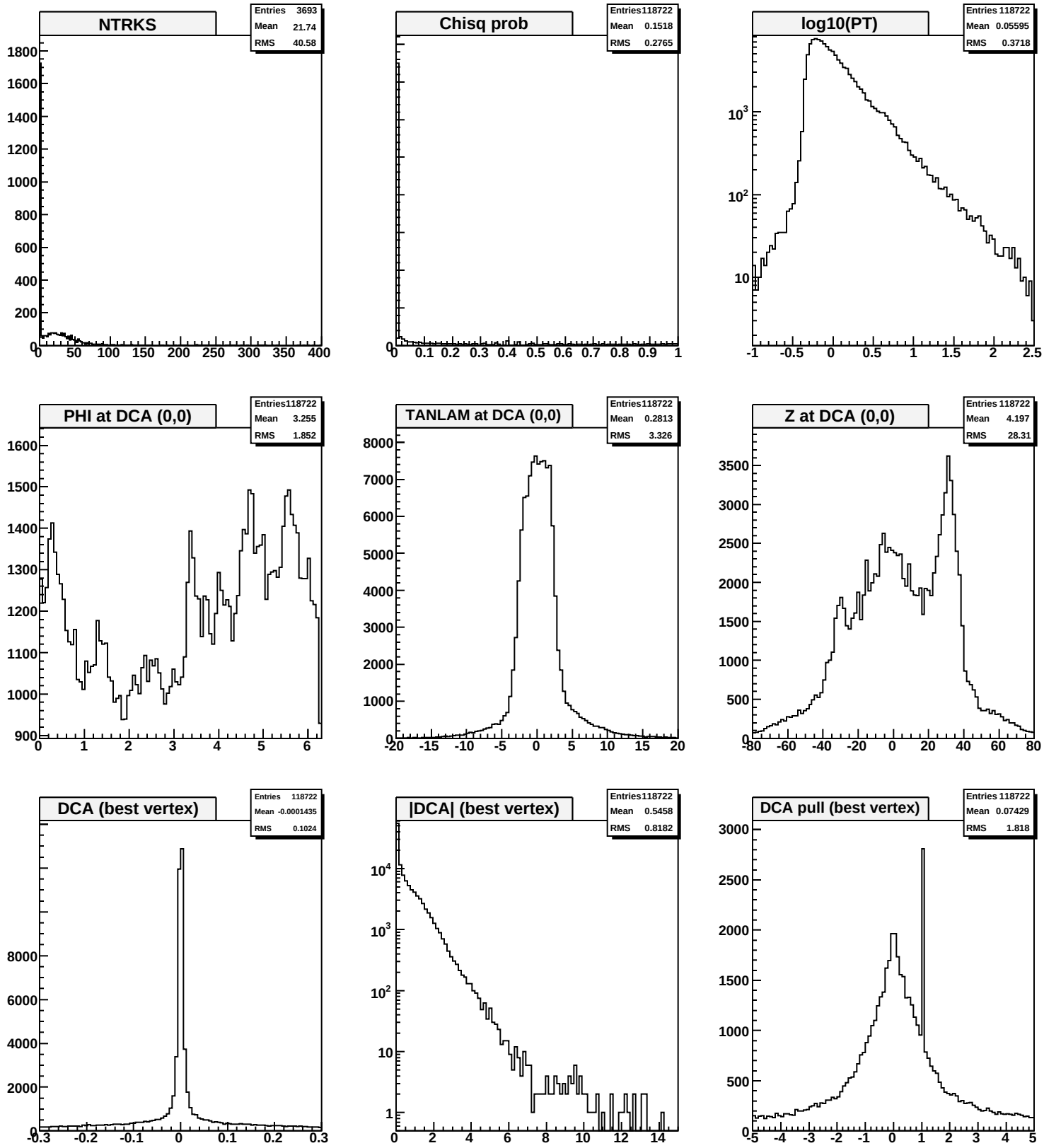
RecoCert_Plots (Index 2)


NTRKS
Entries 3693
Mean 21.74
RMS 40.58
Chisq prob
Entries 118722
Mean 0.1518
RMS 0.2765
log10(PT)
Entries 118722
Mean 0.05595
RMS 0.3718
PHI at DCA (0,0)
Entries 118722
Mean 3.255
RMS 1.852
TANLAM at DCA (0,0)
Entries 118722
Mean 0.2813
RMS 3.326
Z at DCA (0,0)
Entries 118722
Mean 4.197
RMS 28.31
DCA (best vertex)
Entries 118722
Mean -0.0001435
RMS 0.1024
|DCA| (best vertex)
Entries 118722
Mean 0.5458
RMS 0.8182
DCA pull (best vertex)
Entries 118722
Mean 0.07429
RMS 1.818

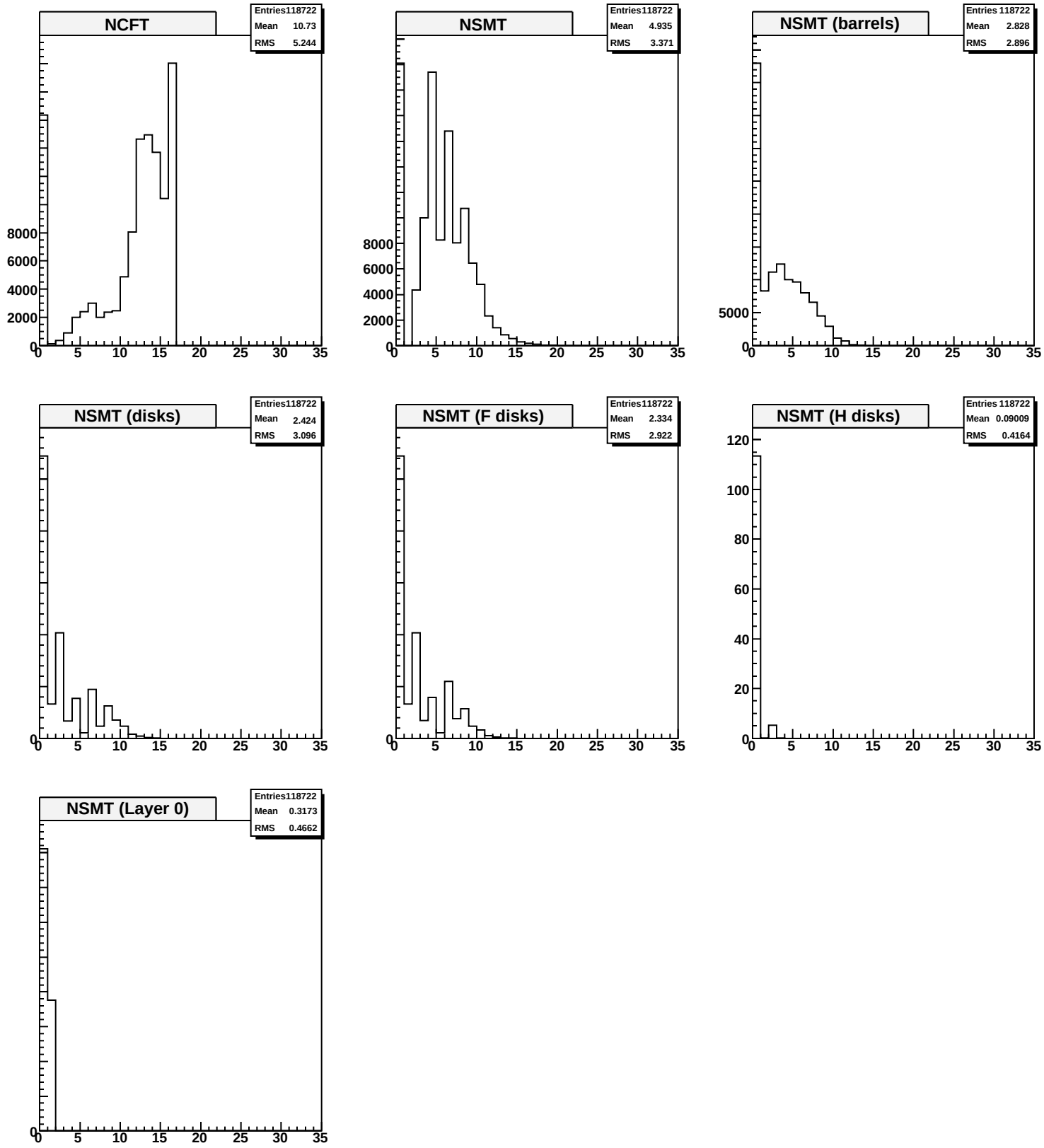
Tracks (All)



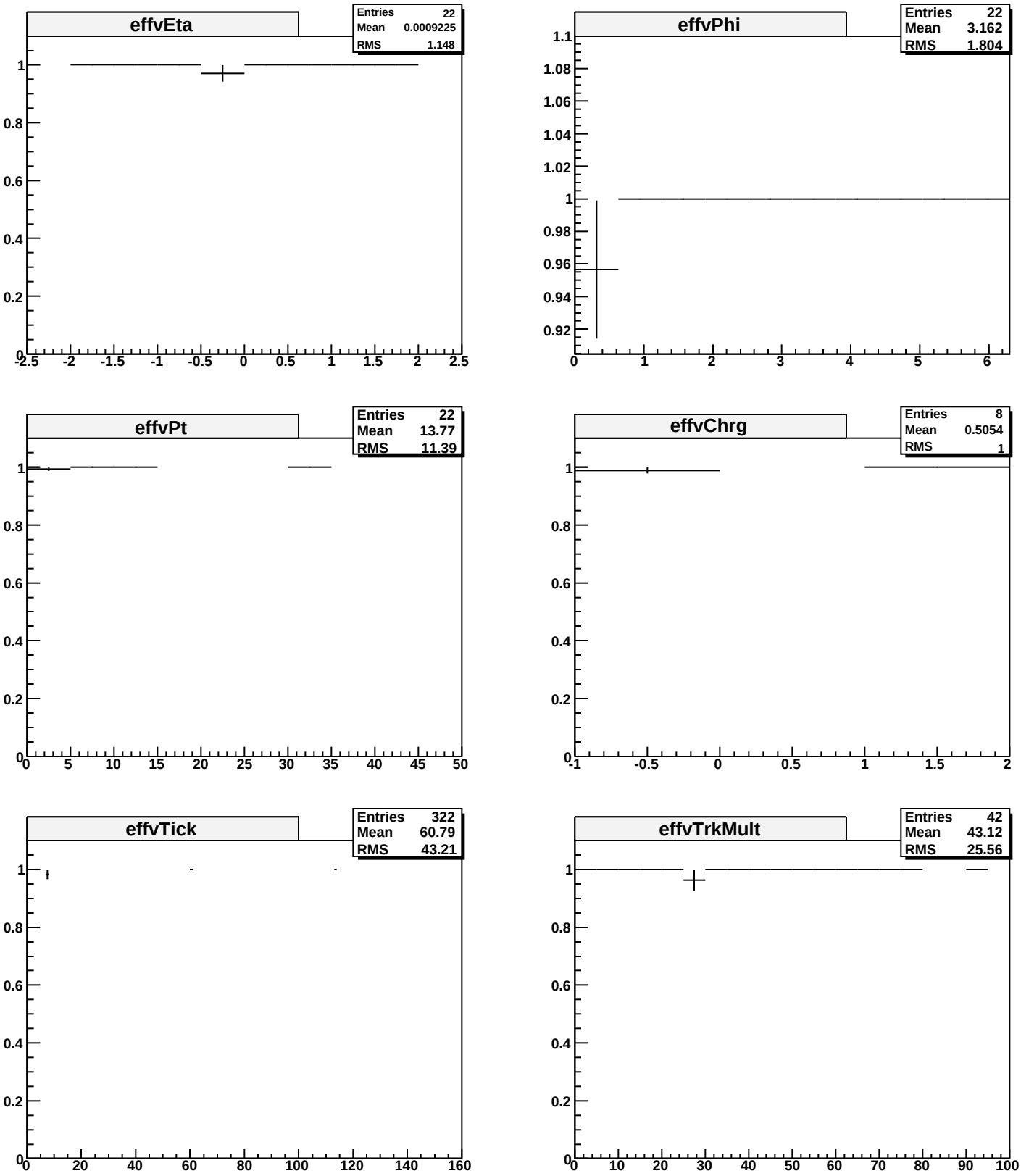
Track Hits (All)



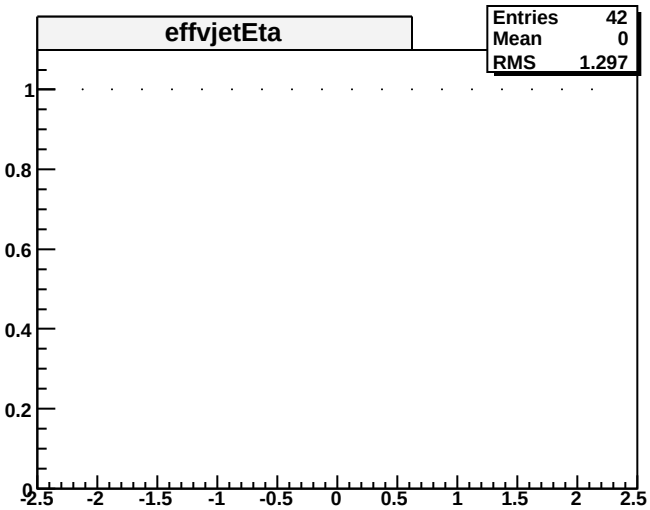
Tracks (Tight)

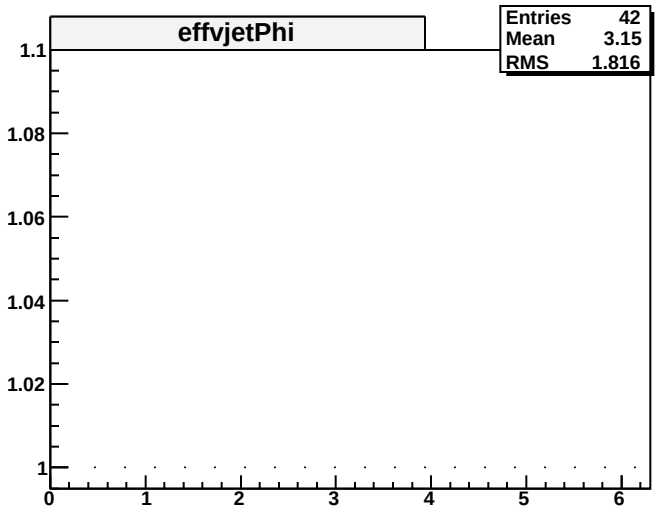


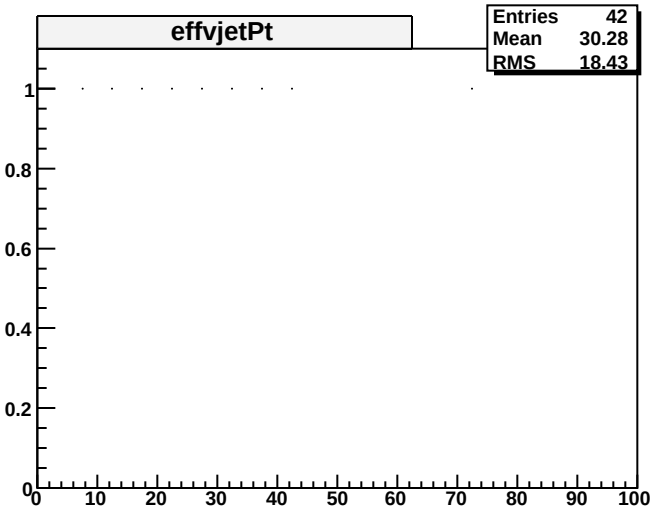
Track Hits (Tight)



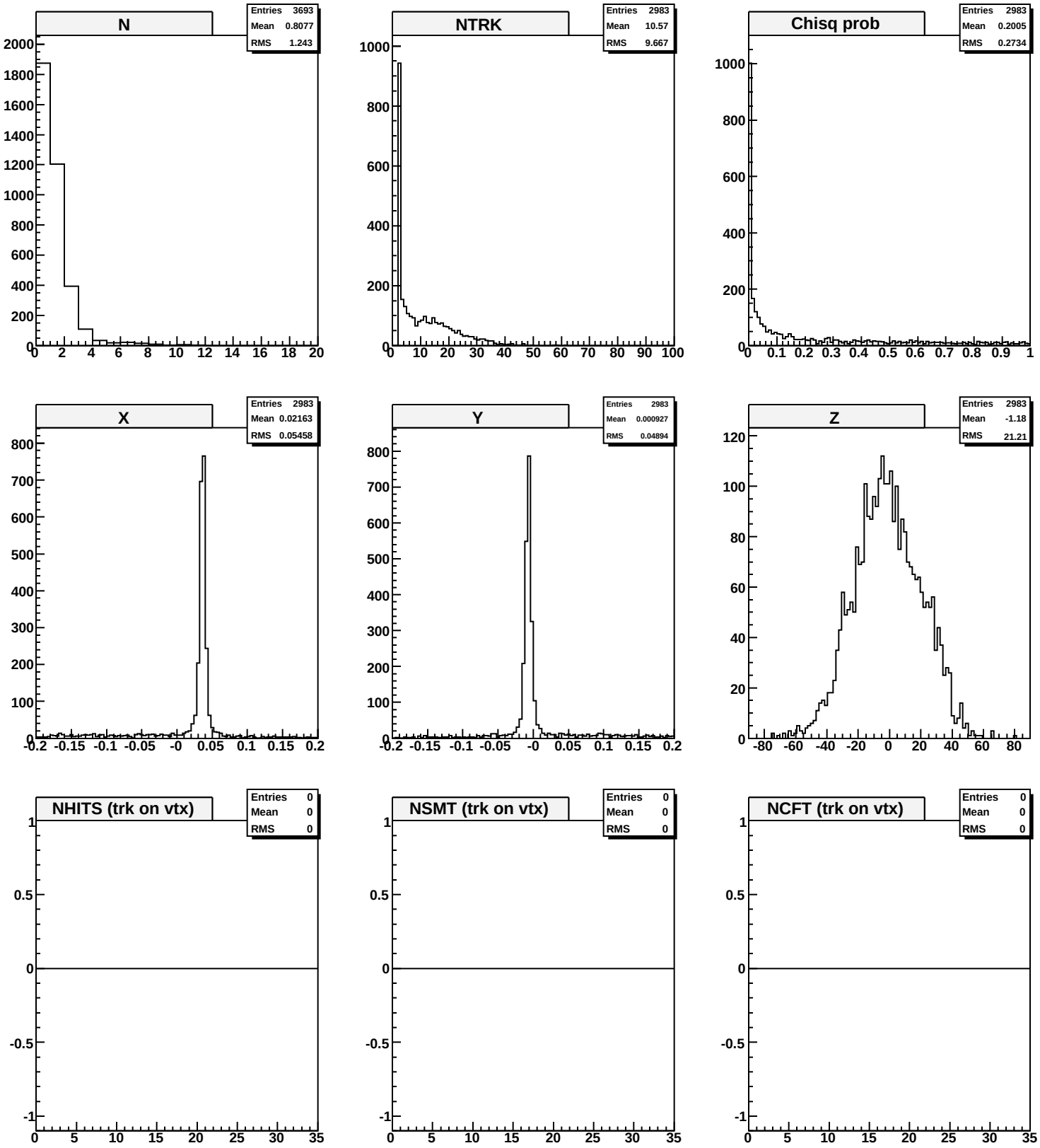
Tracking (Efficiency-Isolated)



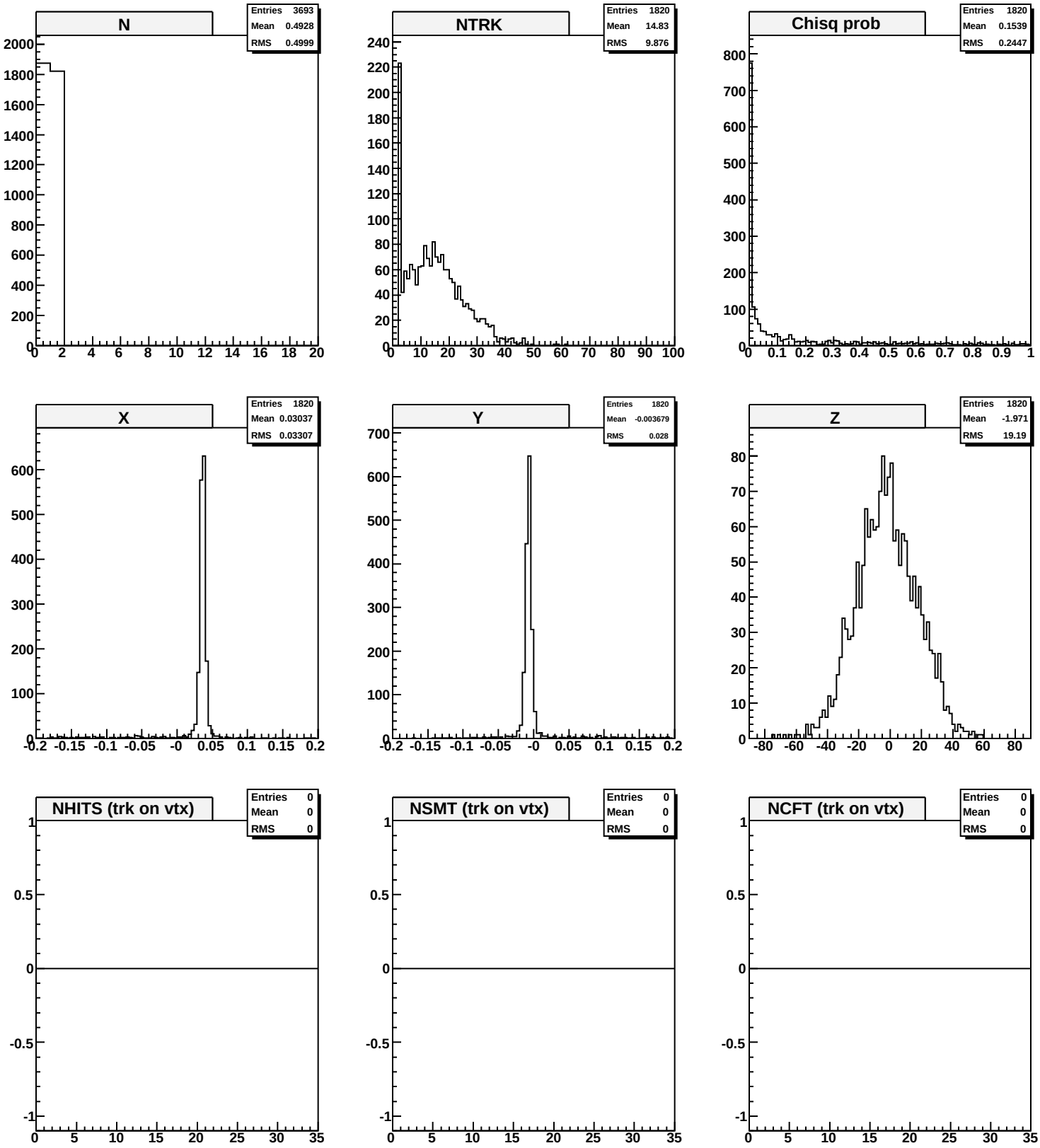




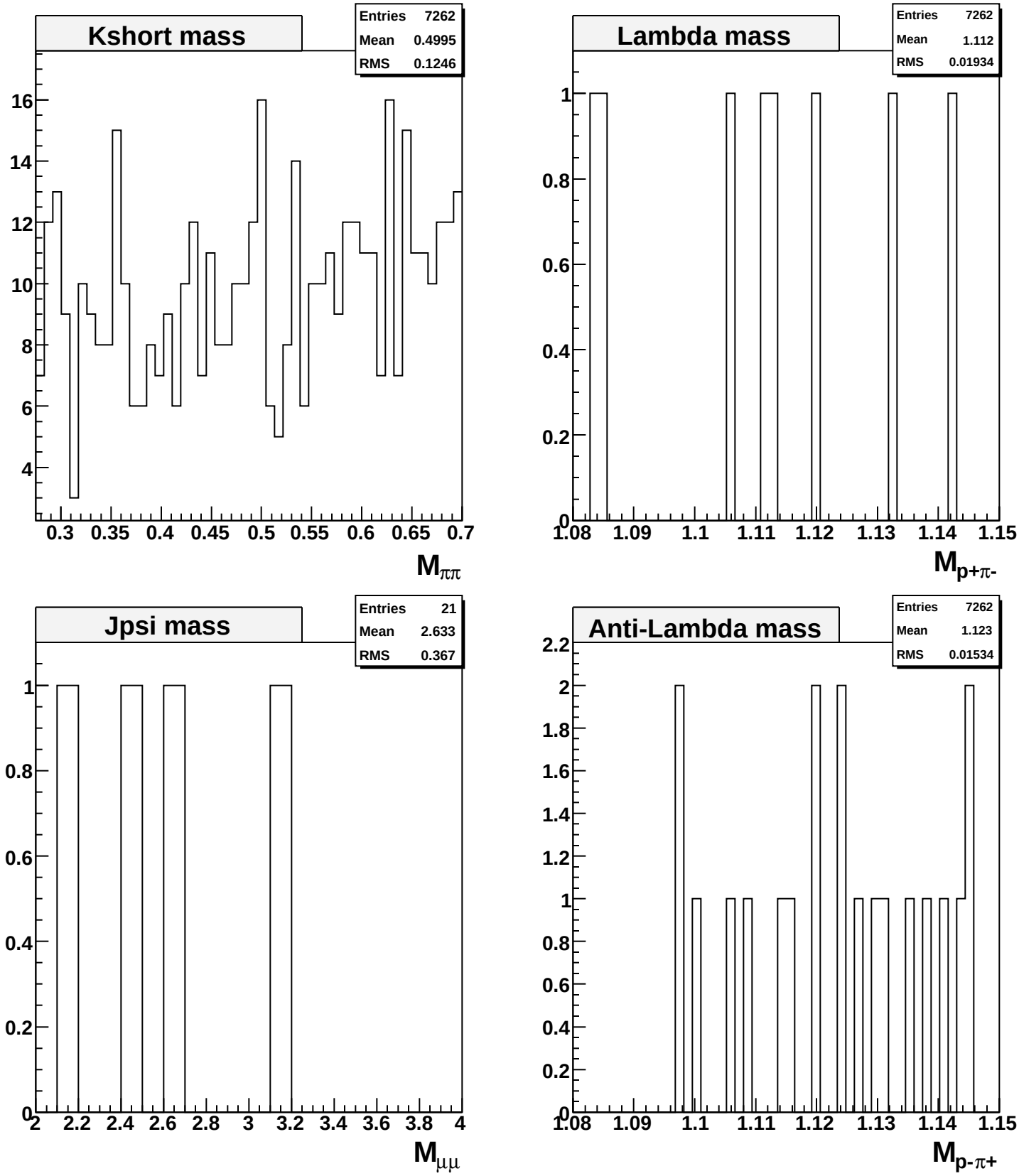
Tracking (Efficiency-InJets)



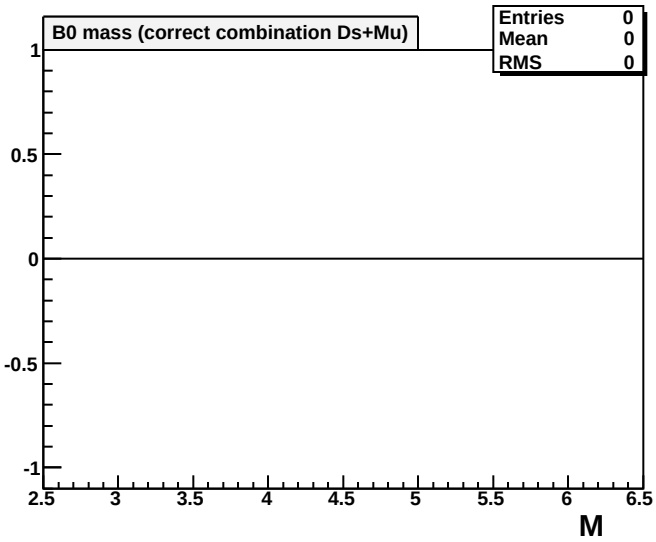
Vertices (Primary - all candidates)

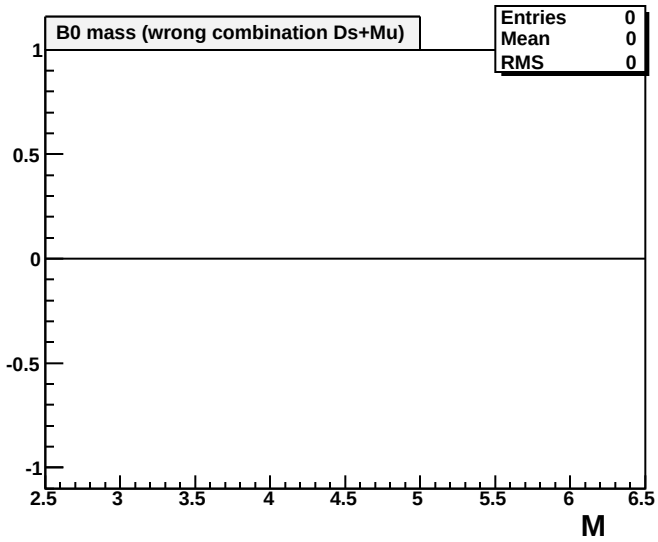


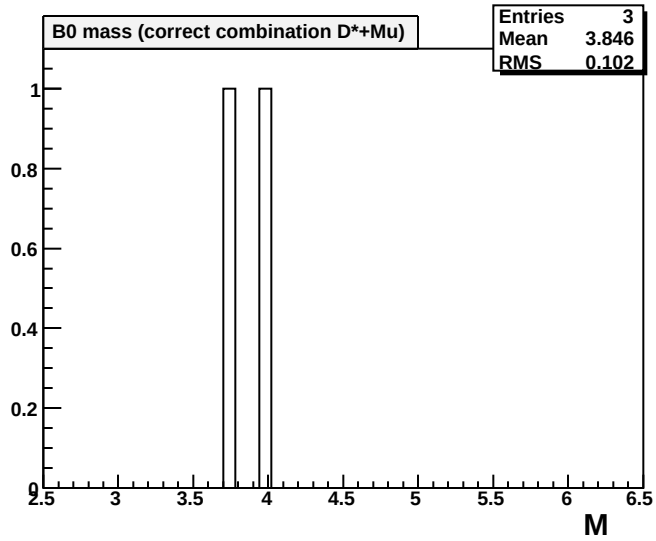
Vertices (Primary - best)

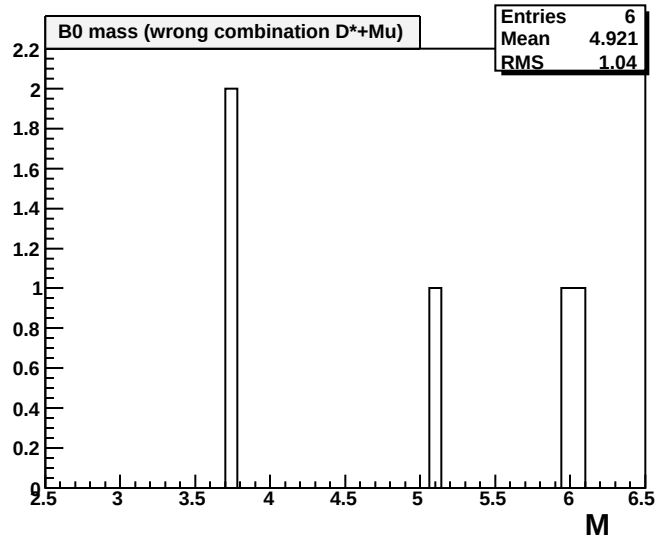

Kshort mass
Entries 7262
Mean 0.4995
RMS 0.1246
$M_{\pi\pi}$
Lambda mass
Entries 7262
Mean 1.112
RMS 0.01934
$M_{p+\pi-}$
Jpsi mass
Entries 21
Mean 2.633
RMS 0.367
$M_{\mu\mu}$
Anti-Lambda mass
Entries 7262
Mean 1.123
RMS 0.01534
$M_{p-\pi+}$

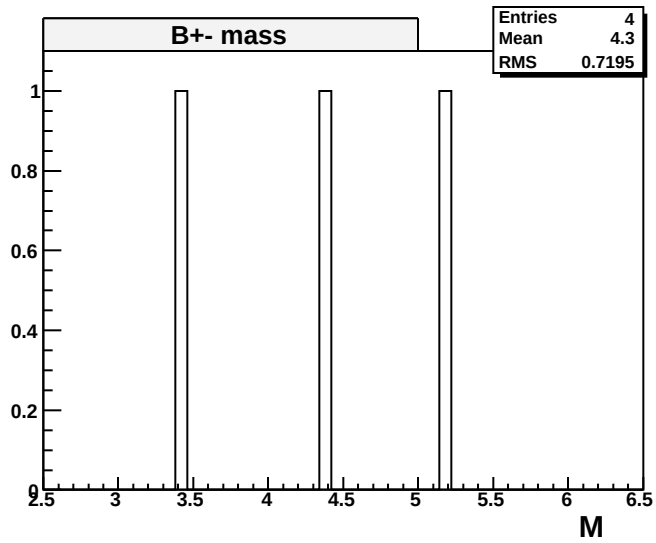
V0 (All)



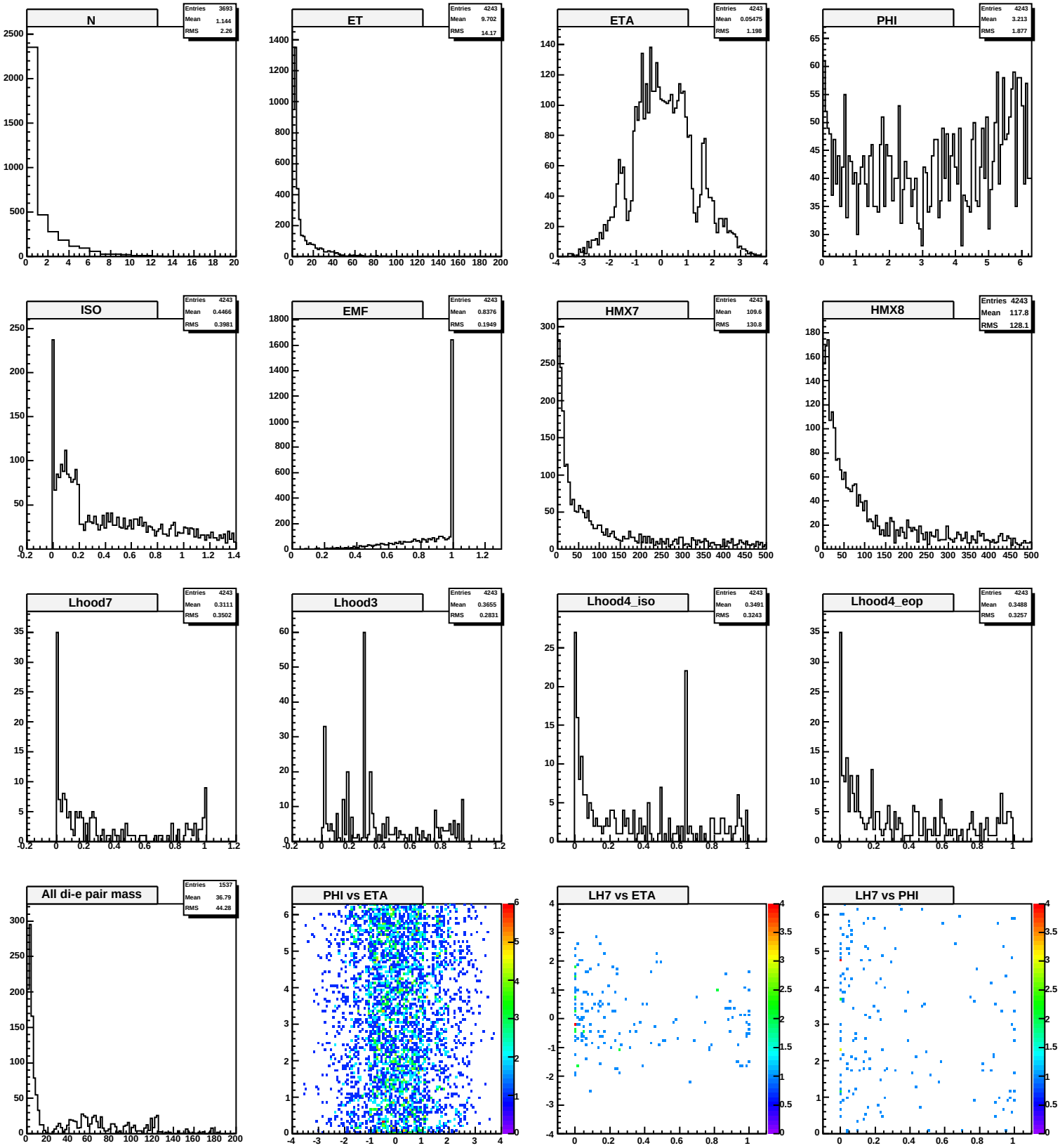




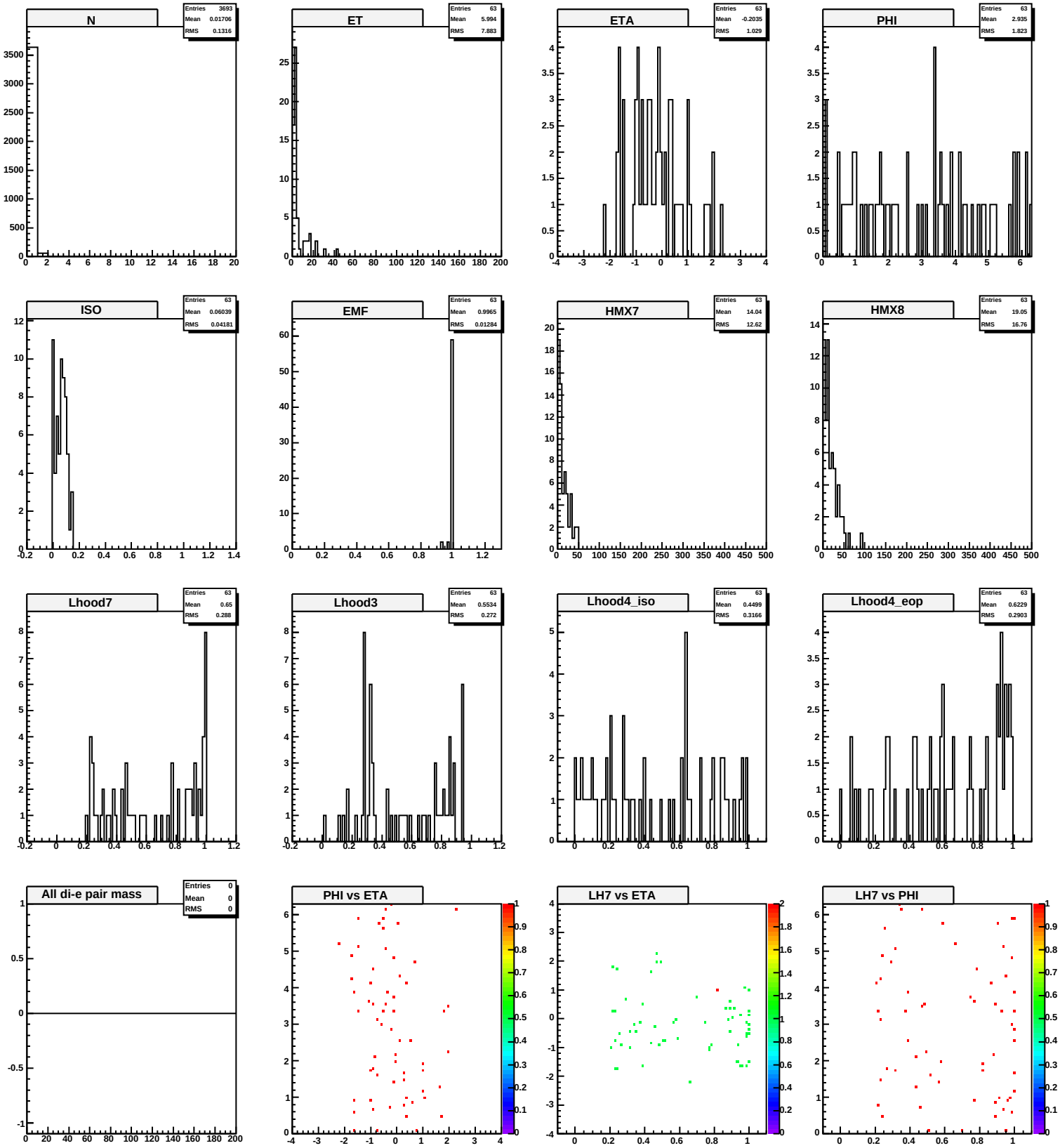




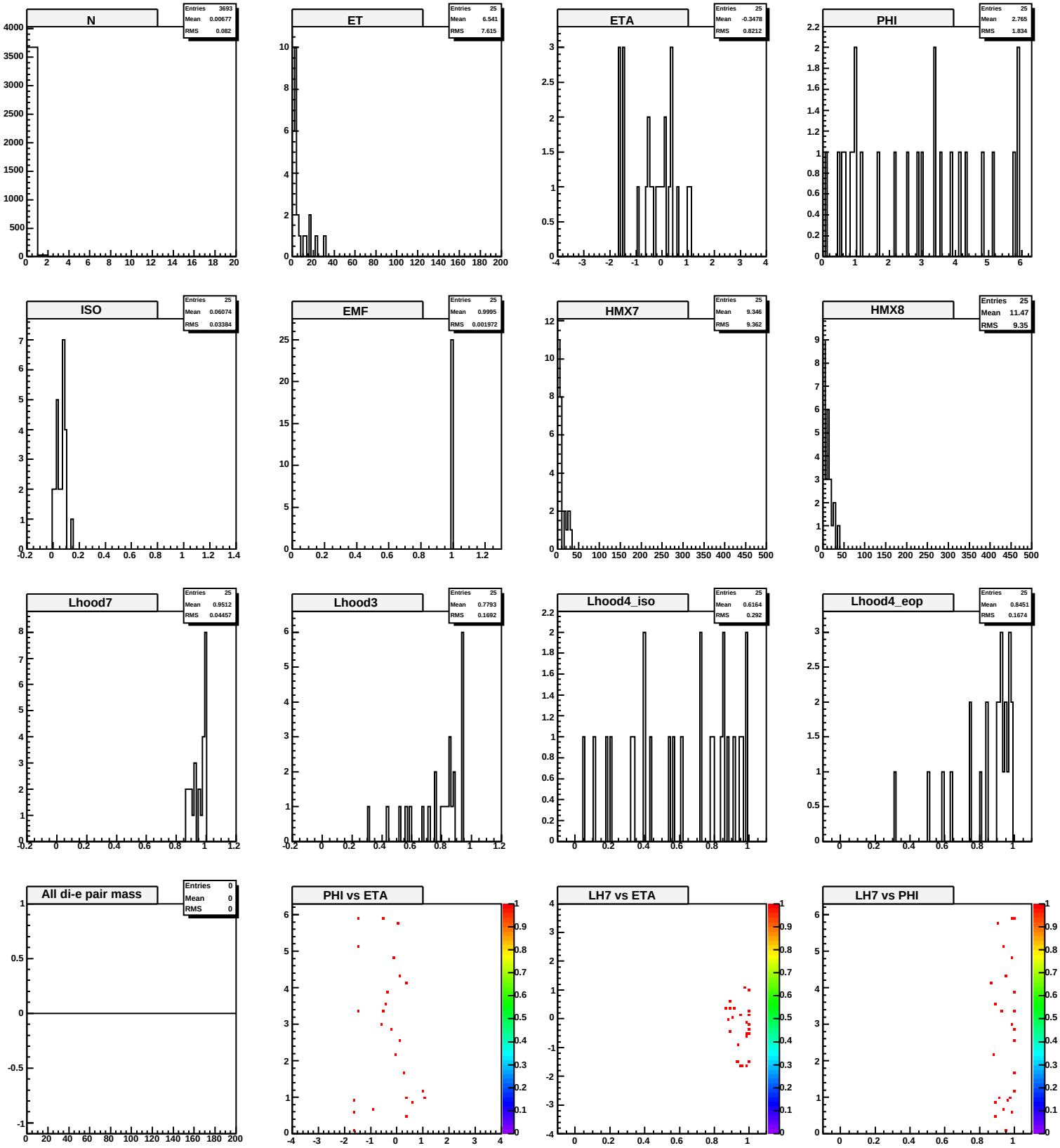
V0(B mesons) (All)



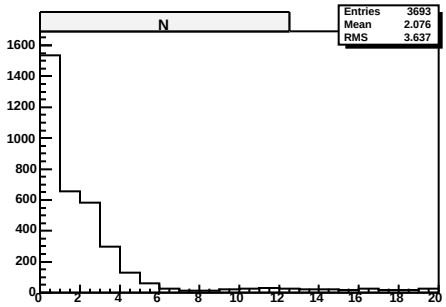
Electrons (SCONE All)

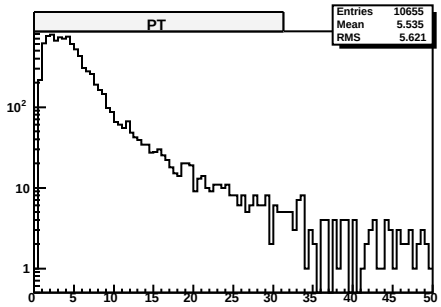


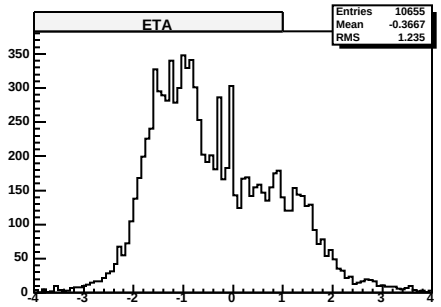
Electrons (SCONE Loose)

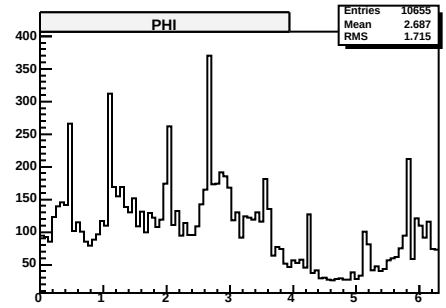


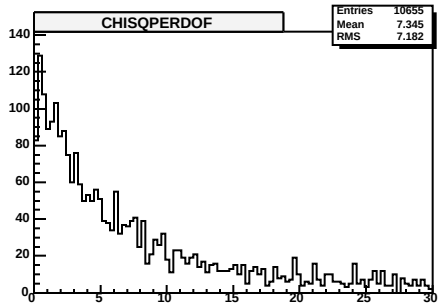
Electrons (SCONE Tight)

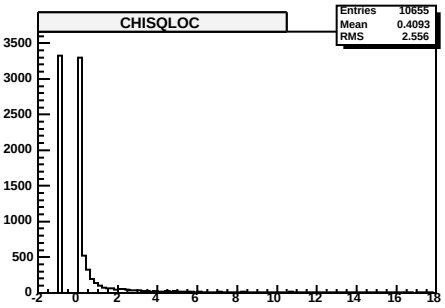

N
Entries 3693
Mean 2.076
RMS 3.637

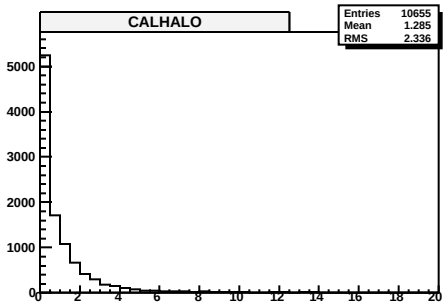

PT
Entries 10655
Mean 5.535
RMS 5.621

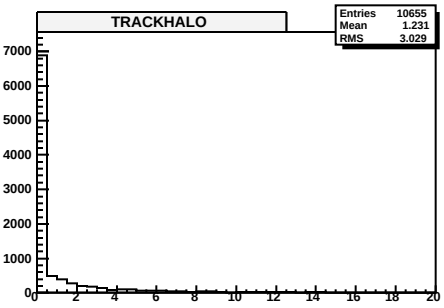

ETA
Entries 10655
Mean -0.3667
RMS 1.235

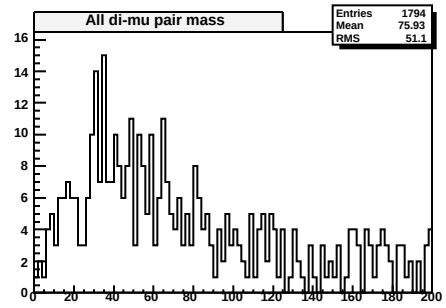

PHI
Entries 10655
Mean 2.687
RMS 1.715

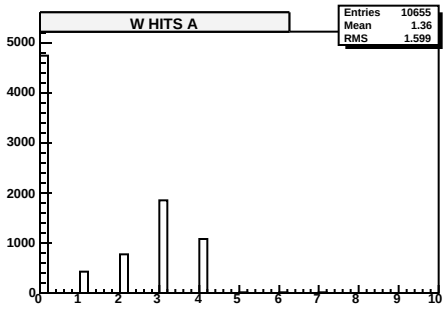

CHISQPERDOF
Entries 10655
Mean 7.345
RMS 7.182

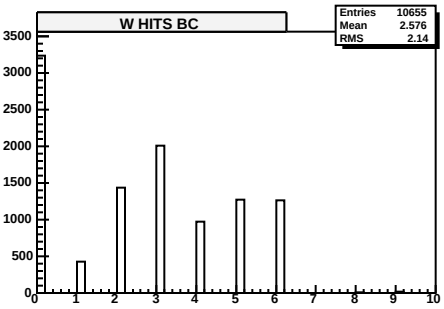

CHISQLOC
Entries 10655
Mean 0.4093
RMS 2.556

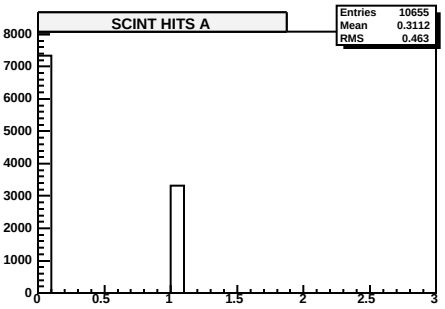

CALHALO
Entries 10655
Mean 1.285
RMS 2.336

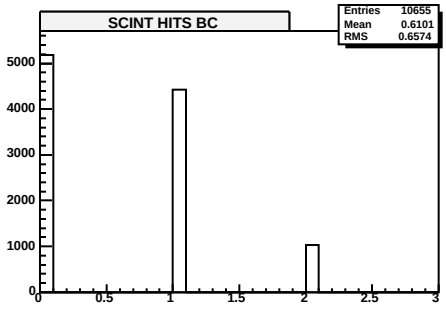

TRACKHALO
Entries 10655
Mean 1.231
RMS 3.029


All di-mu pair mass
Entries 1794
Mean 75.93
RMS 51.1

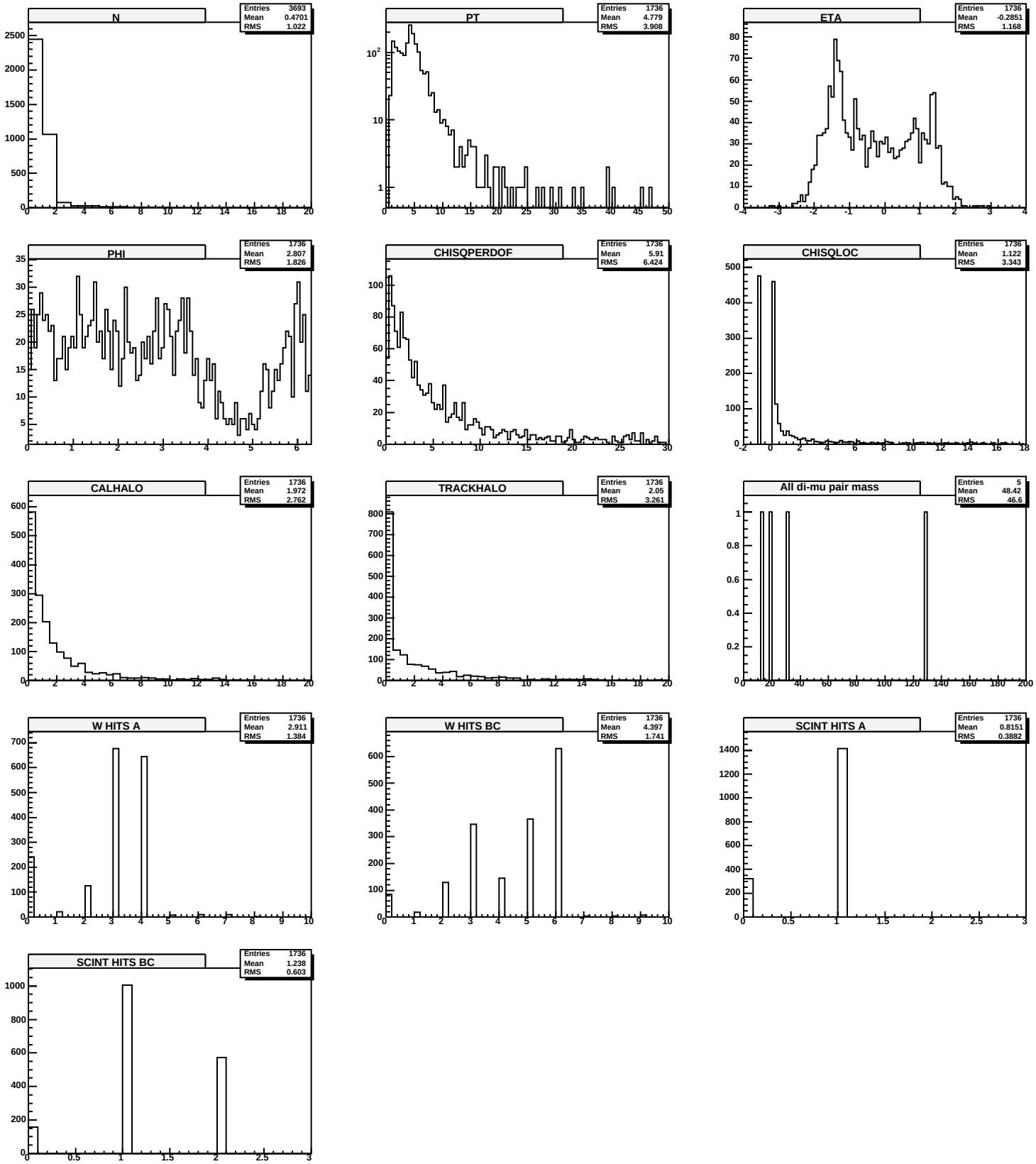

W HITS A
Entries 10655
Mean 1.36
RMS 1.599


W HITS BC
Entries 10655
Mean 2.576
RMS 2.14

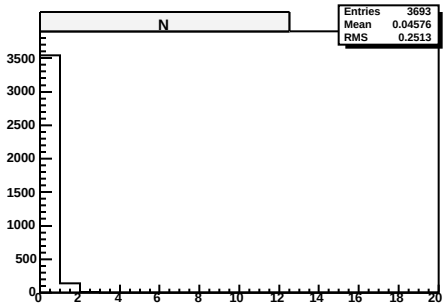

SCINT HITS A
Entries 10655
Mean 0.3112
RMS 0.463

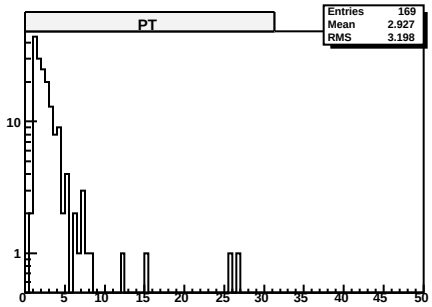

SCINT HITS BC
Entries 10655
Mean 0.6101
RMS 0.6574

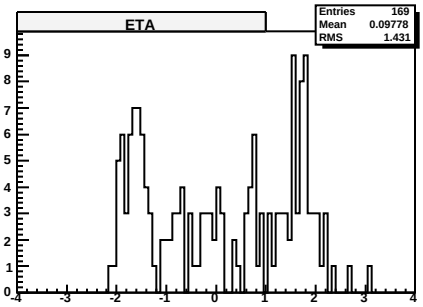
Muons (All)

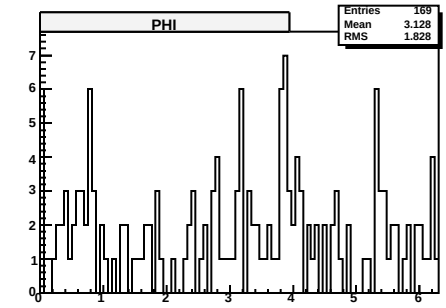


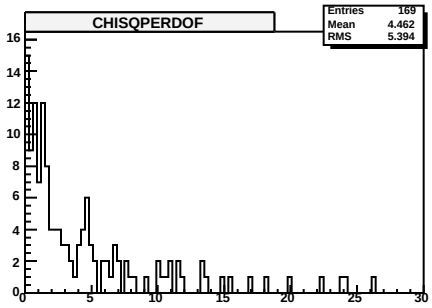
Muons (Matched)

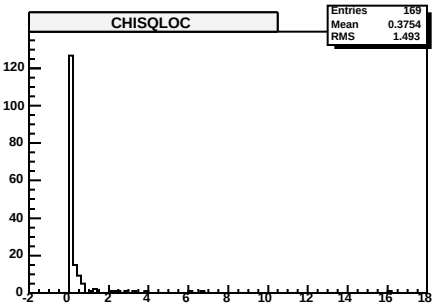

N
Entries 3693
Mean 0.04576
RMS 0.2513

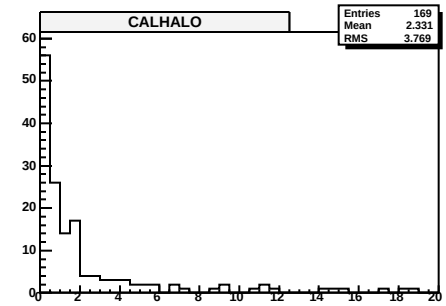

PT
Entries 169
Mean 2.927
RMS 3.198

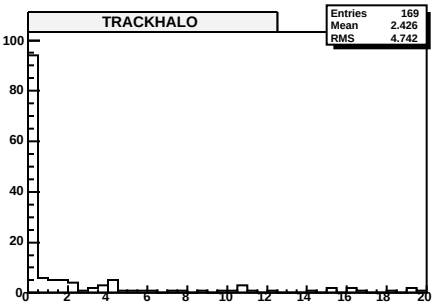

ETA
Entries 169
Mean 0.09778
RMS 1.431

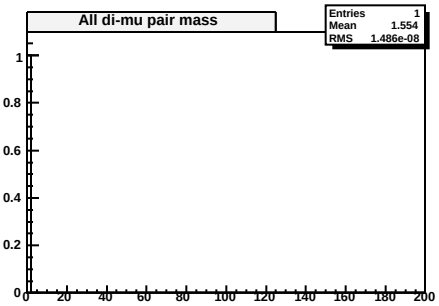

PHI
Entries 169
Mean 3.128
RMS 1.828

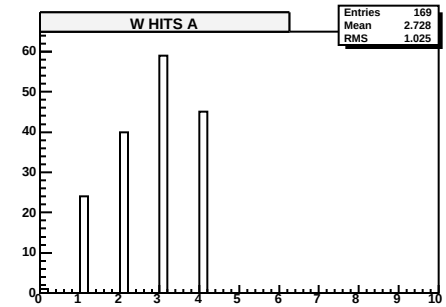

CHISQPERDOF
Entries 169
Mean 4.462
RMS 5.394

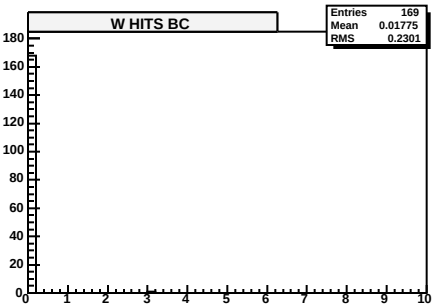

CHISQLOC
Entries 169
Mean 0.3754
RMS 1.493

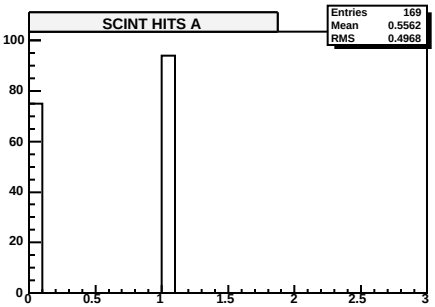

CALHALO
Entries 169
Mean 2.331
RMS 3.769

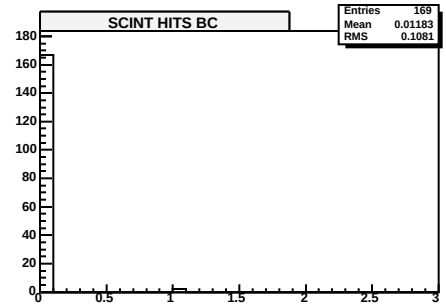

TRACKHALO
Entries 169
Mean 2.426
RMS 4.742


All di-mu pair mass
Entries 1
Mean 1.554
RMS 1.486e-08

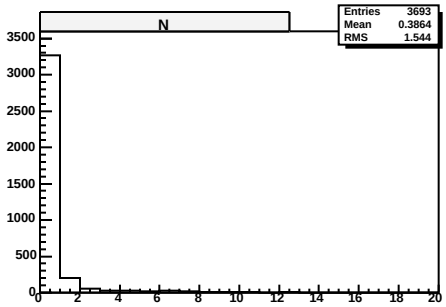

W HITS A
Entries 169
Mean 2.728
RMS 1.025

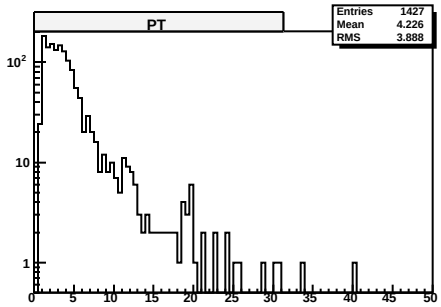

W HITS BC
Entries 169
Mean 0.01775
RMS 0.2301

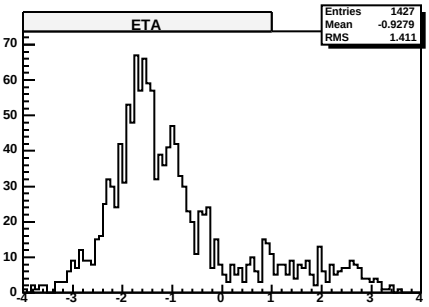

SCINT HITS A
Entries 169
Mean 0.5562
RMS 0.4968

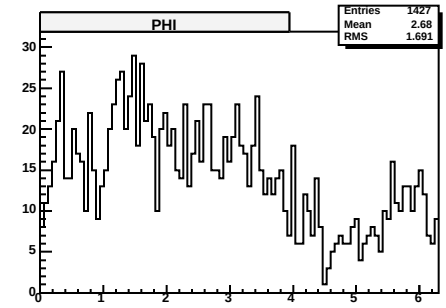

SCINT HITS BC
Entries 169
Mean 0.01183
RMS 0.1081

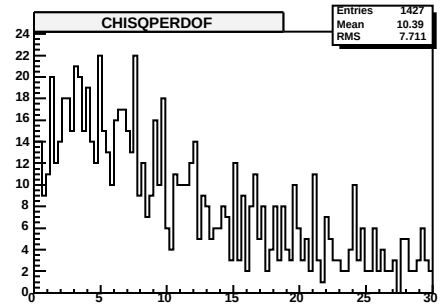
Muons (Astub)

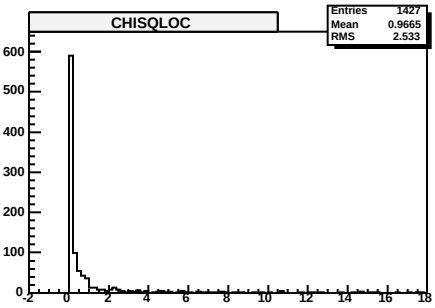


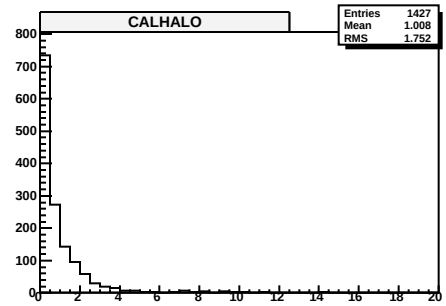


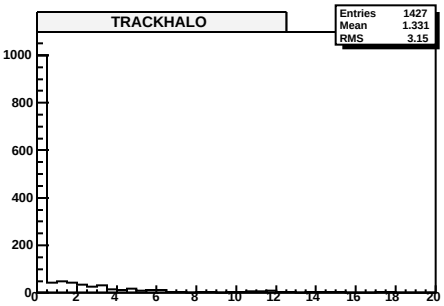


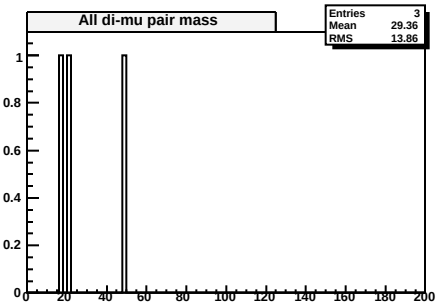


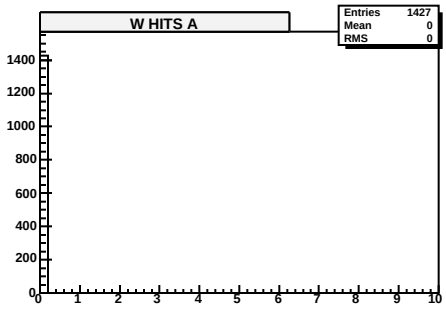


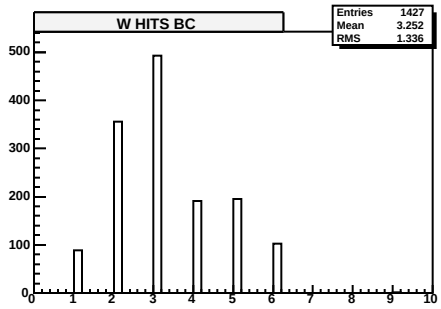


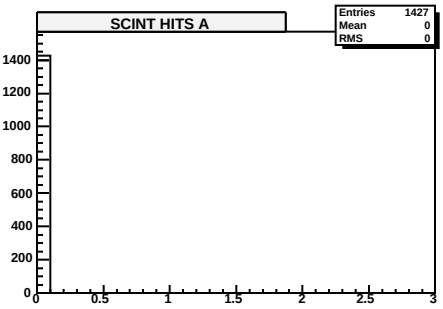


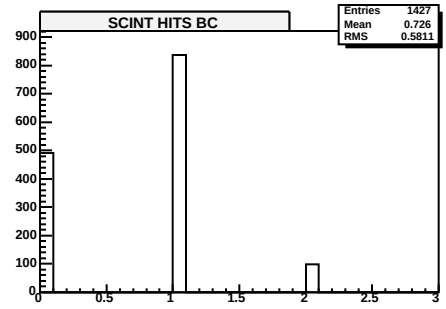




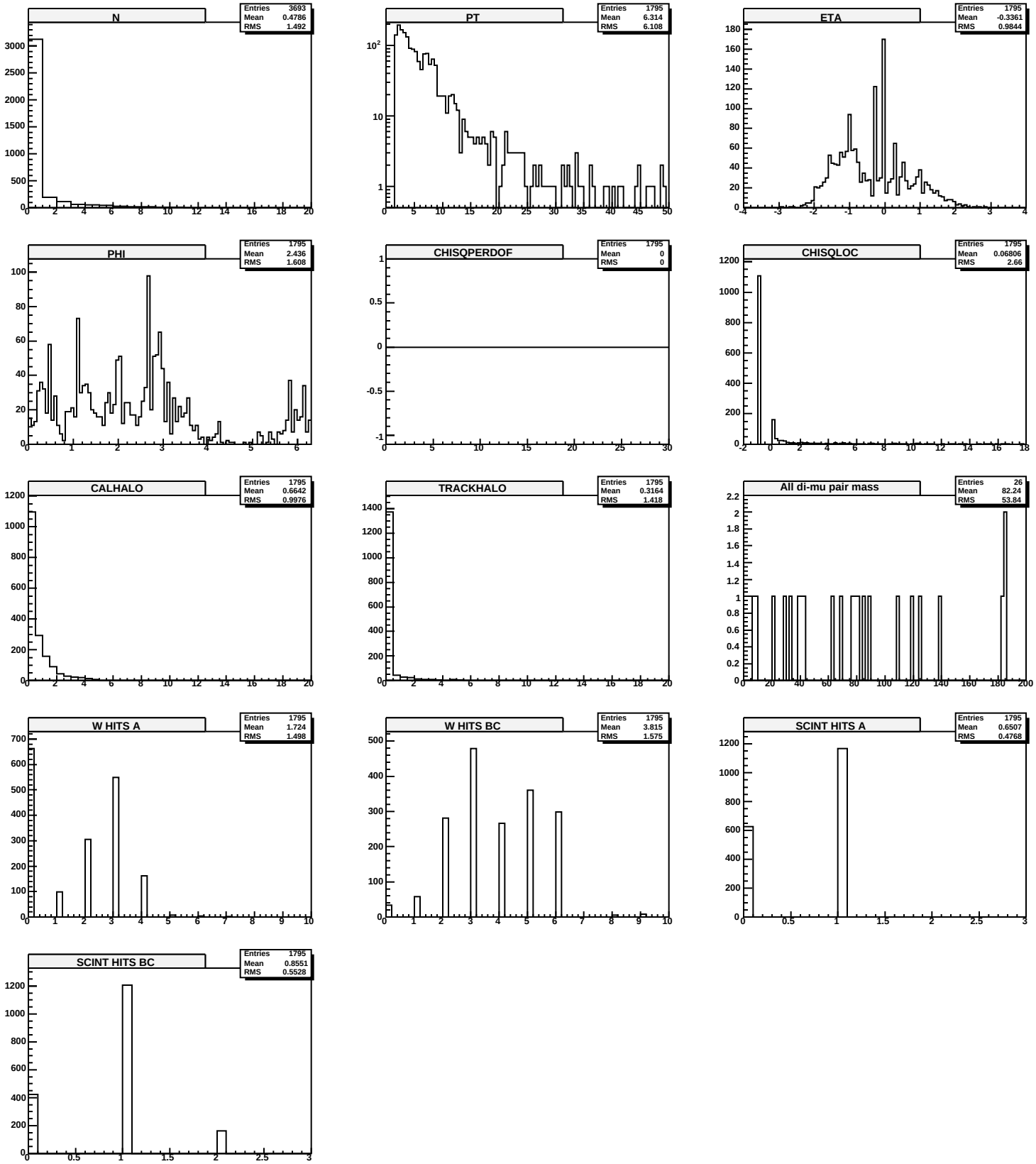




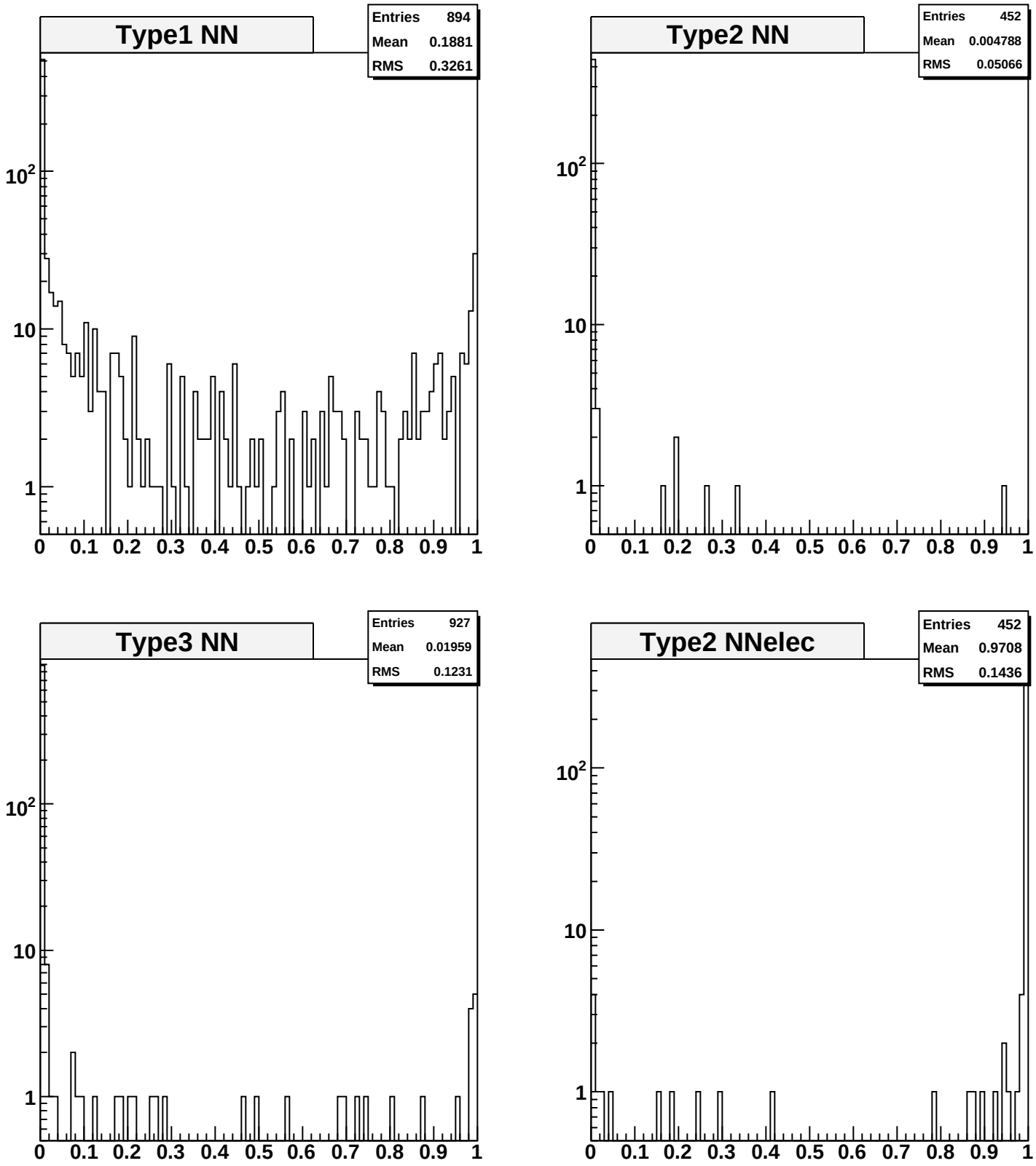




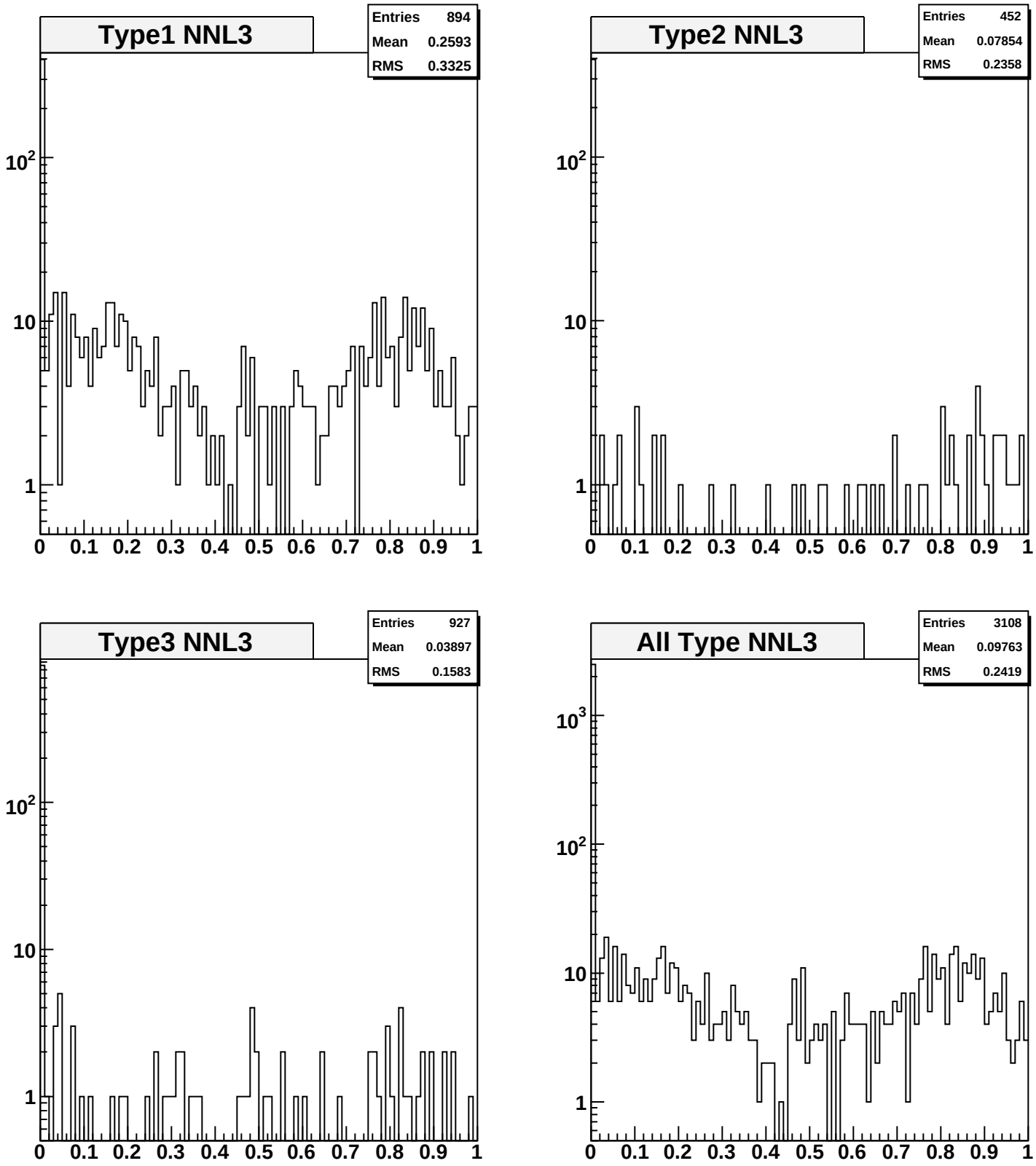
Muons (BCstub)



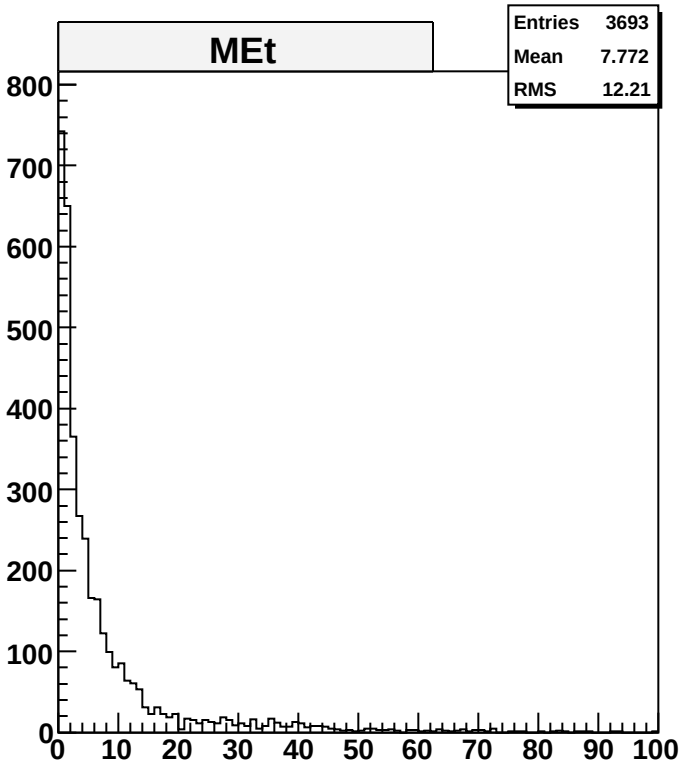
Muons (Unmatched)

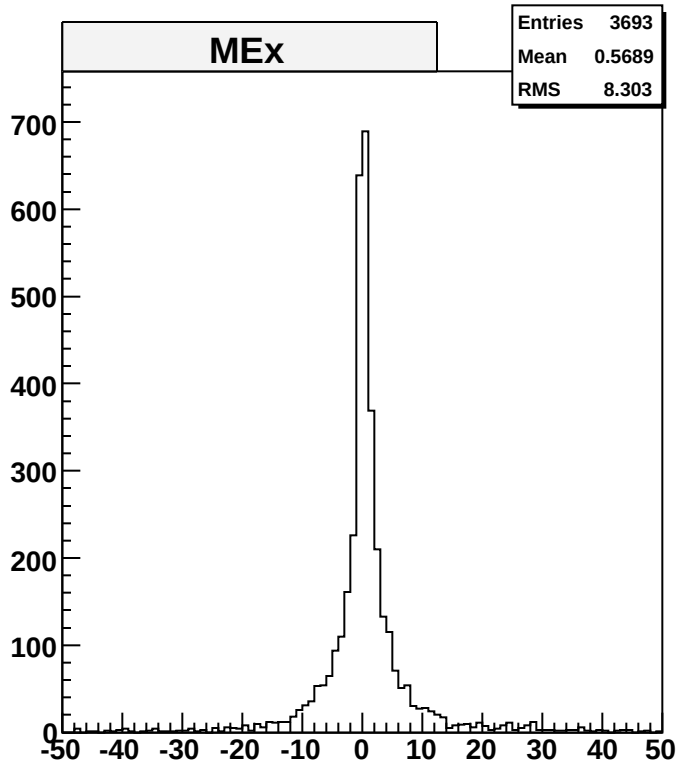


Taus NN (TAU All)



Taus NNL3 (TAU All)


MEt
Entries 3693
Mean 7.772
RMS 12.21
0
100
200
300
400
500
600
700
800
0 10 20 30 40 50 60 70 80 90 100


MEx
Entries 3693
Mean 0.5689
RMS 8.303
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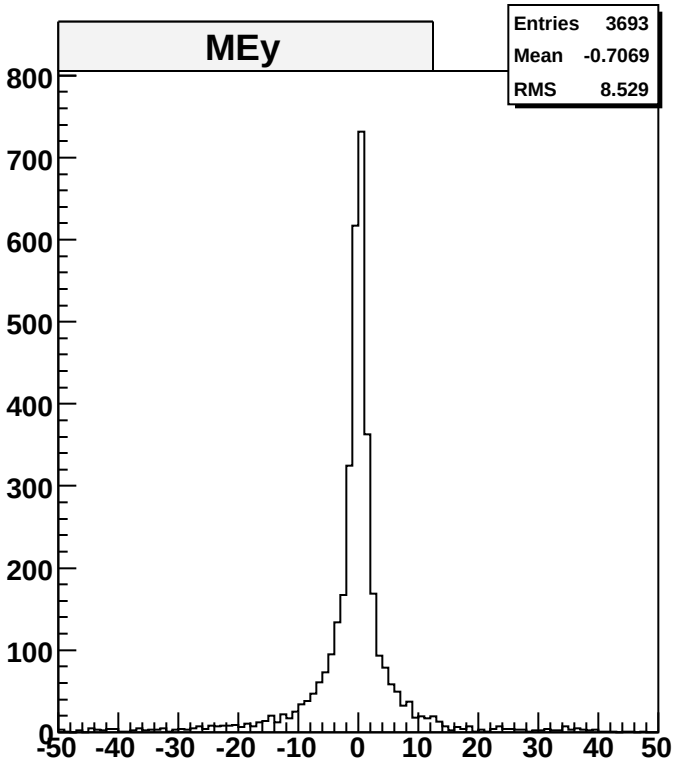
100
200
300
400
500
600
700
-50 -40 -30 -20 -10 0 10 20 30 40 50


MEy
Entries 3693
Mean -0.7069
RMS 8.529
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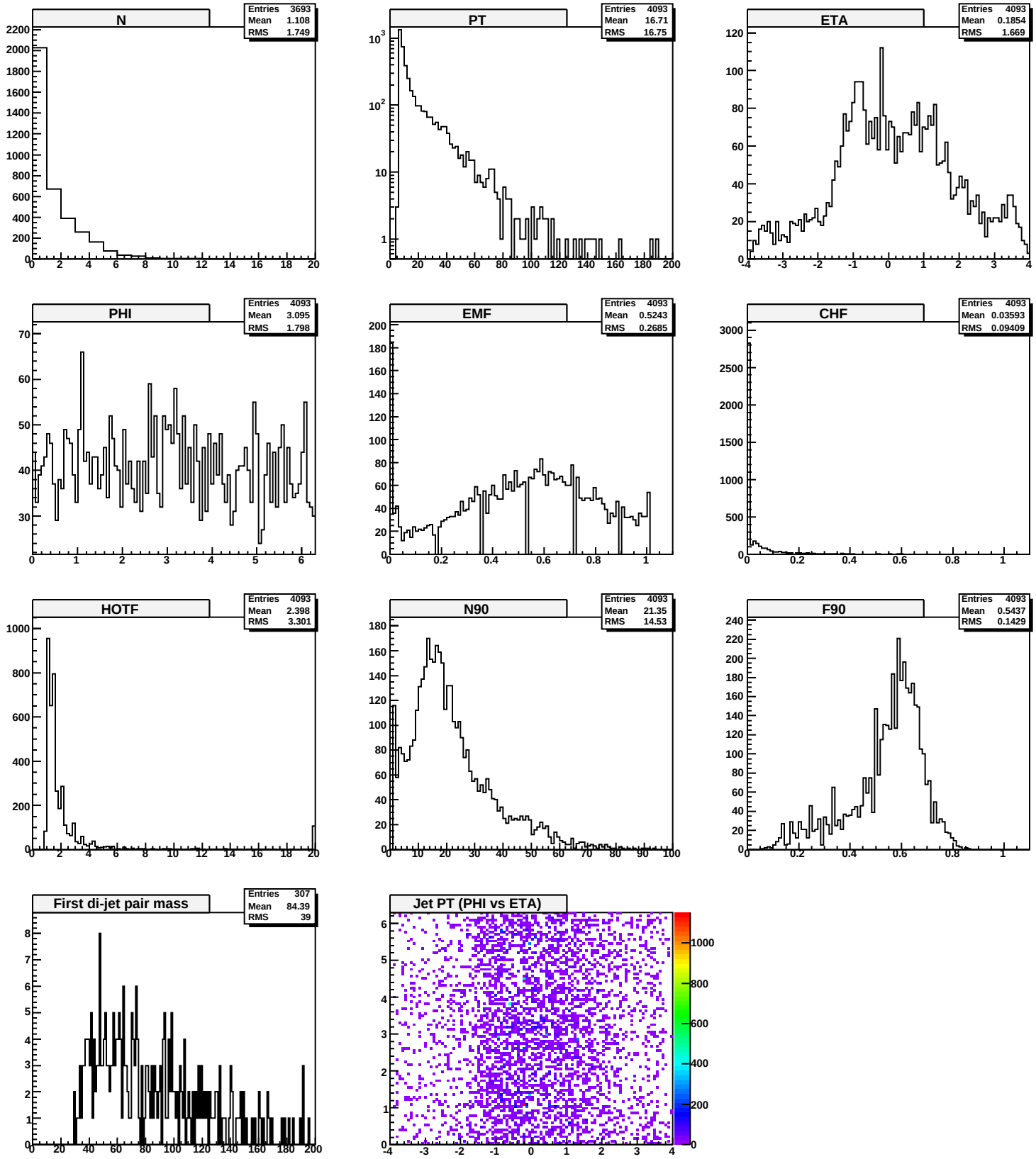
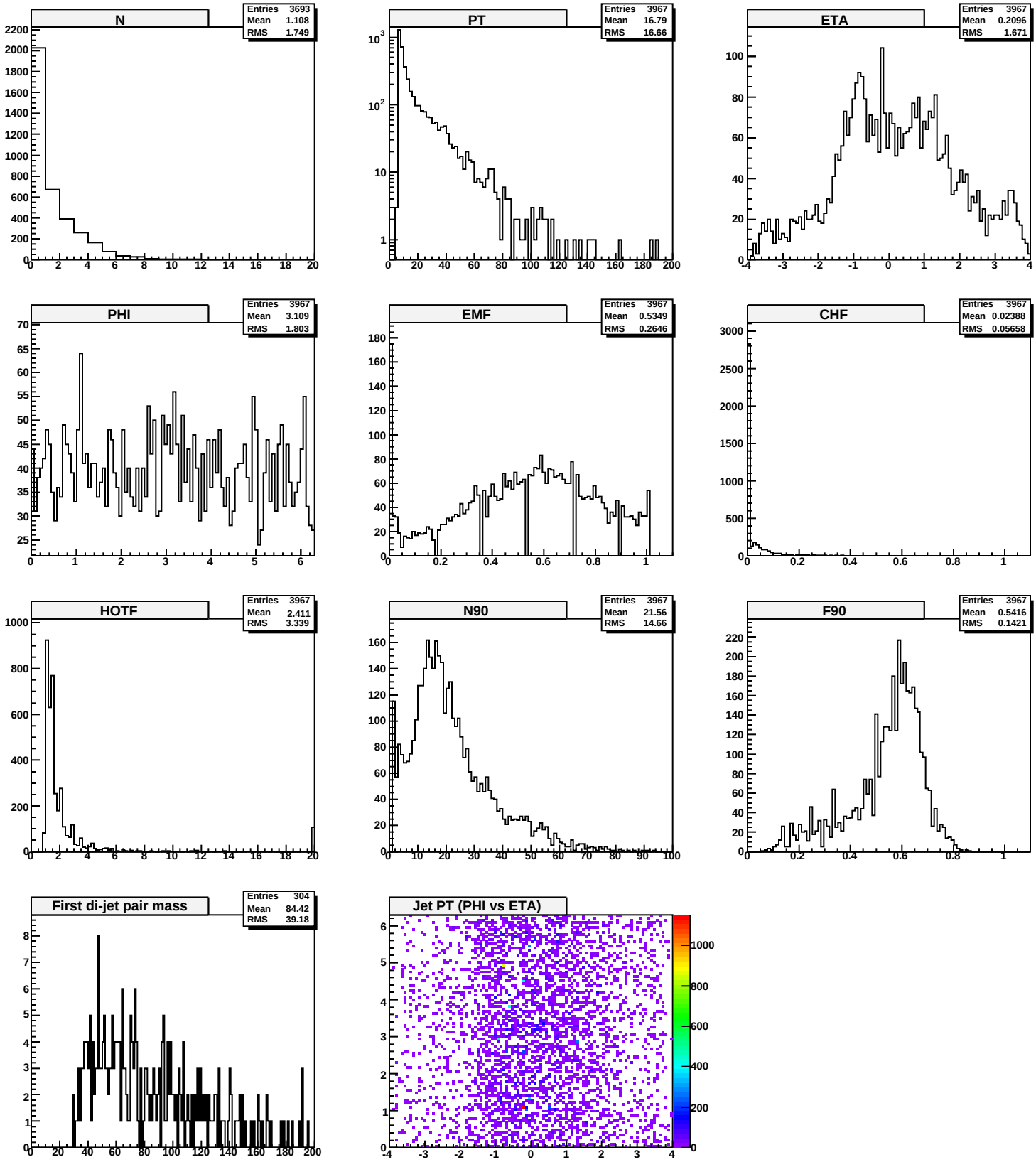
100
200
300
400
500
600
700
800
-50 -40 -30 -20 -10 0 10 20 30 40 50

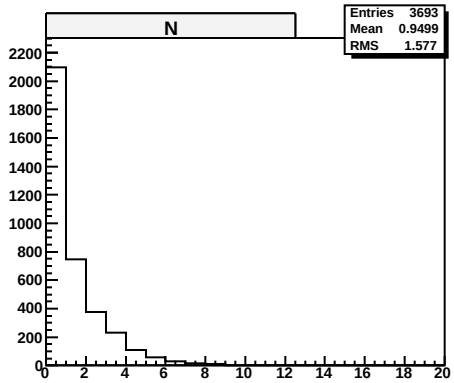
Met (No cuts)

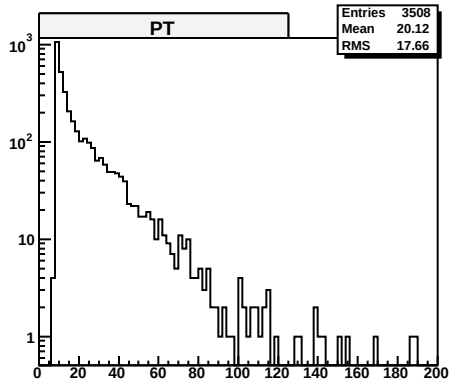


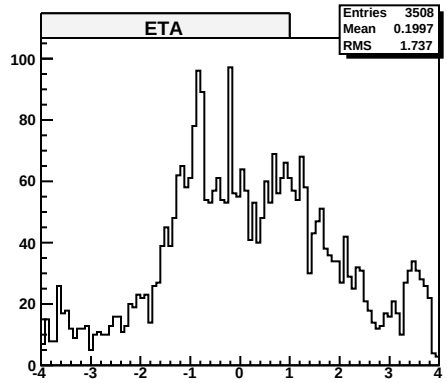
Jets (Cone R 0.7 (no cuts))

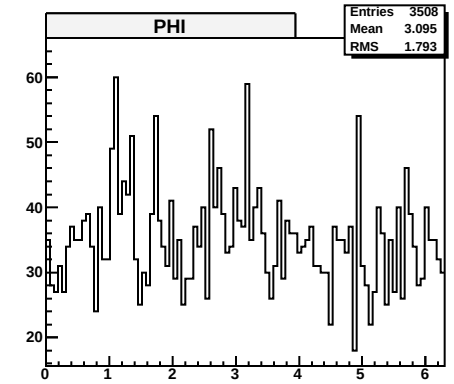


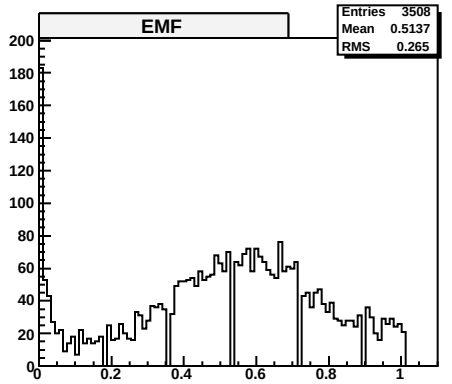
Jets (Cone R 0.7 (standard cuts))

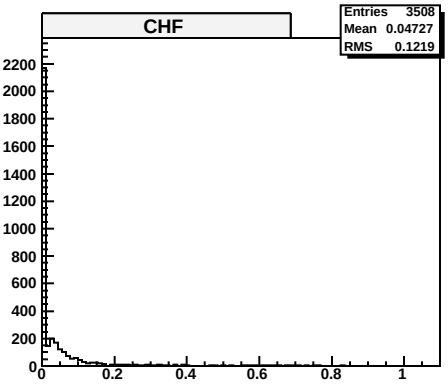


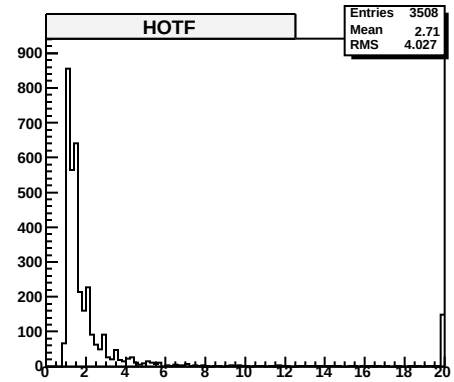


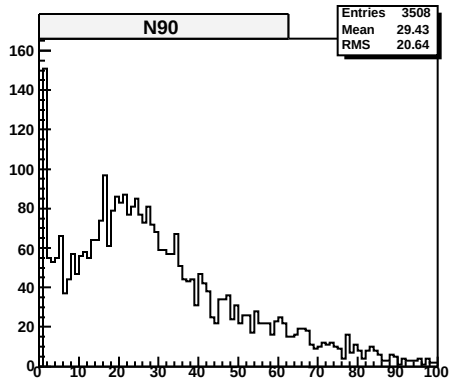


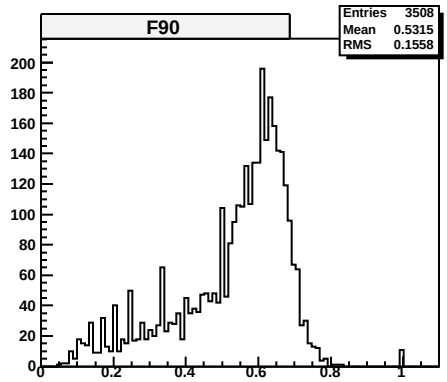


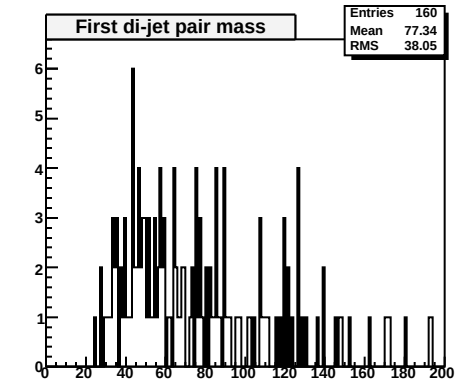


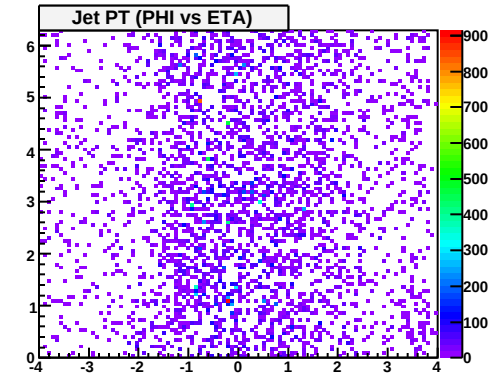




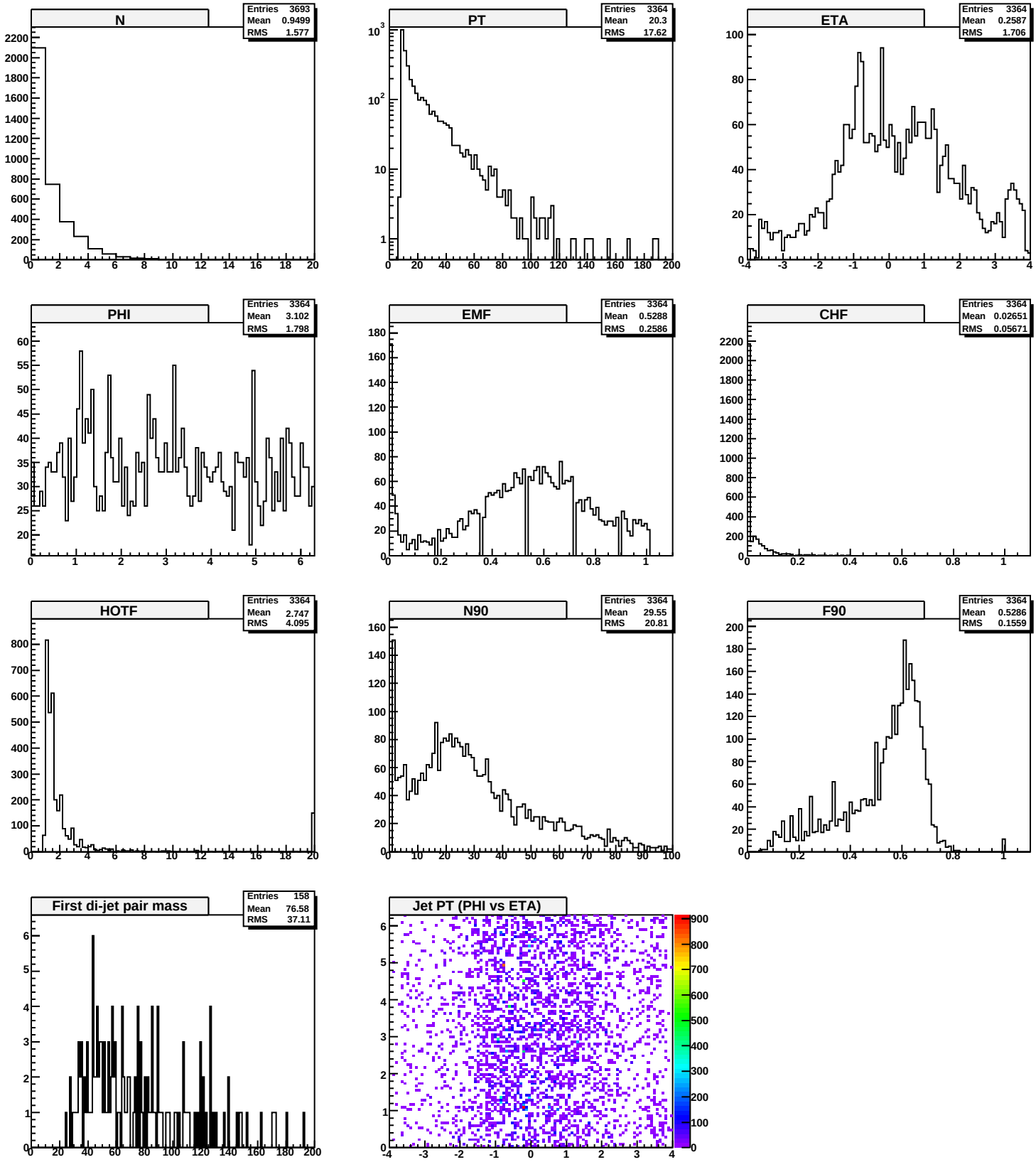




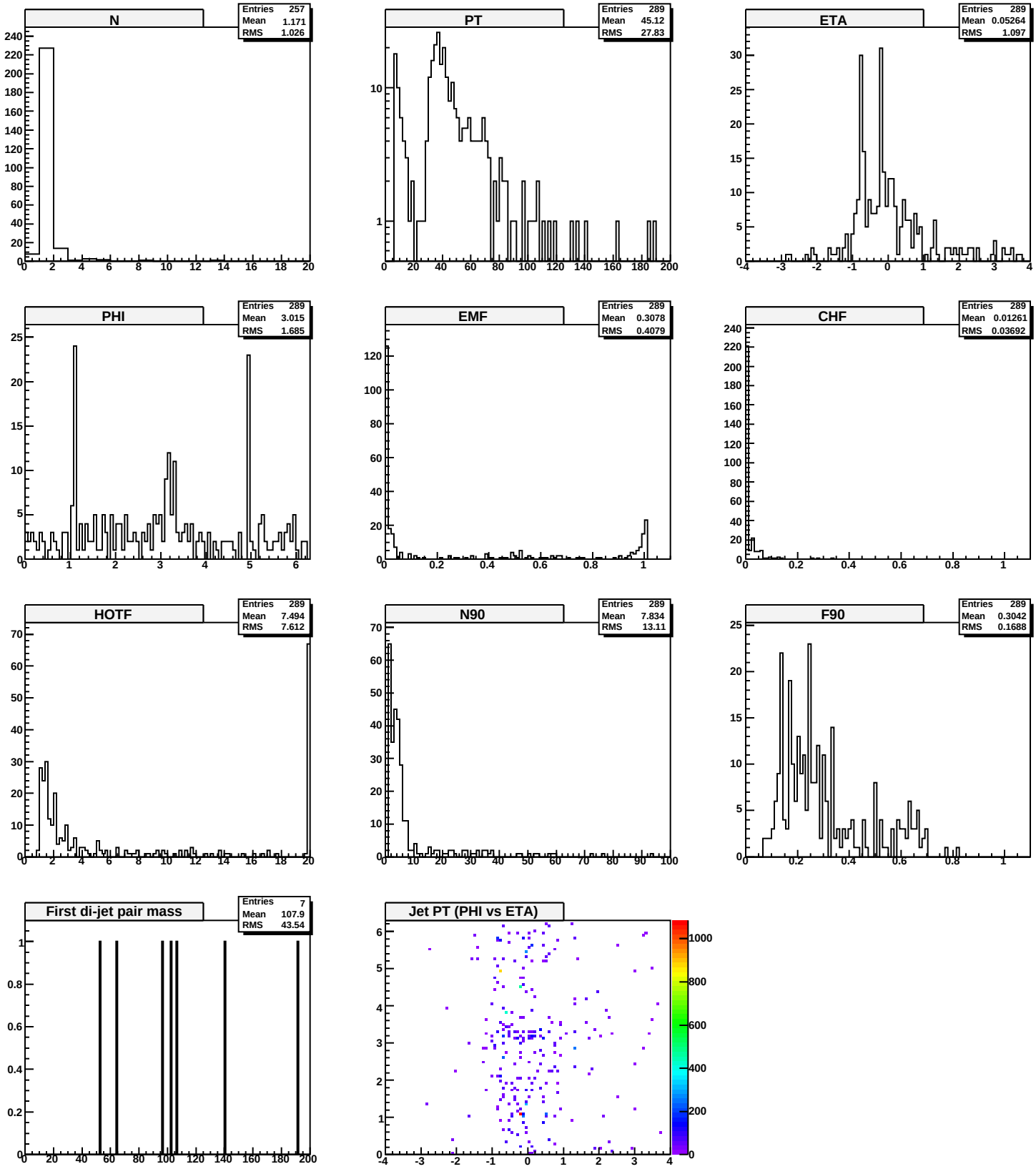




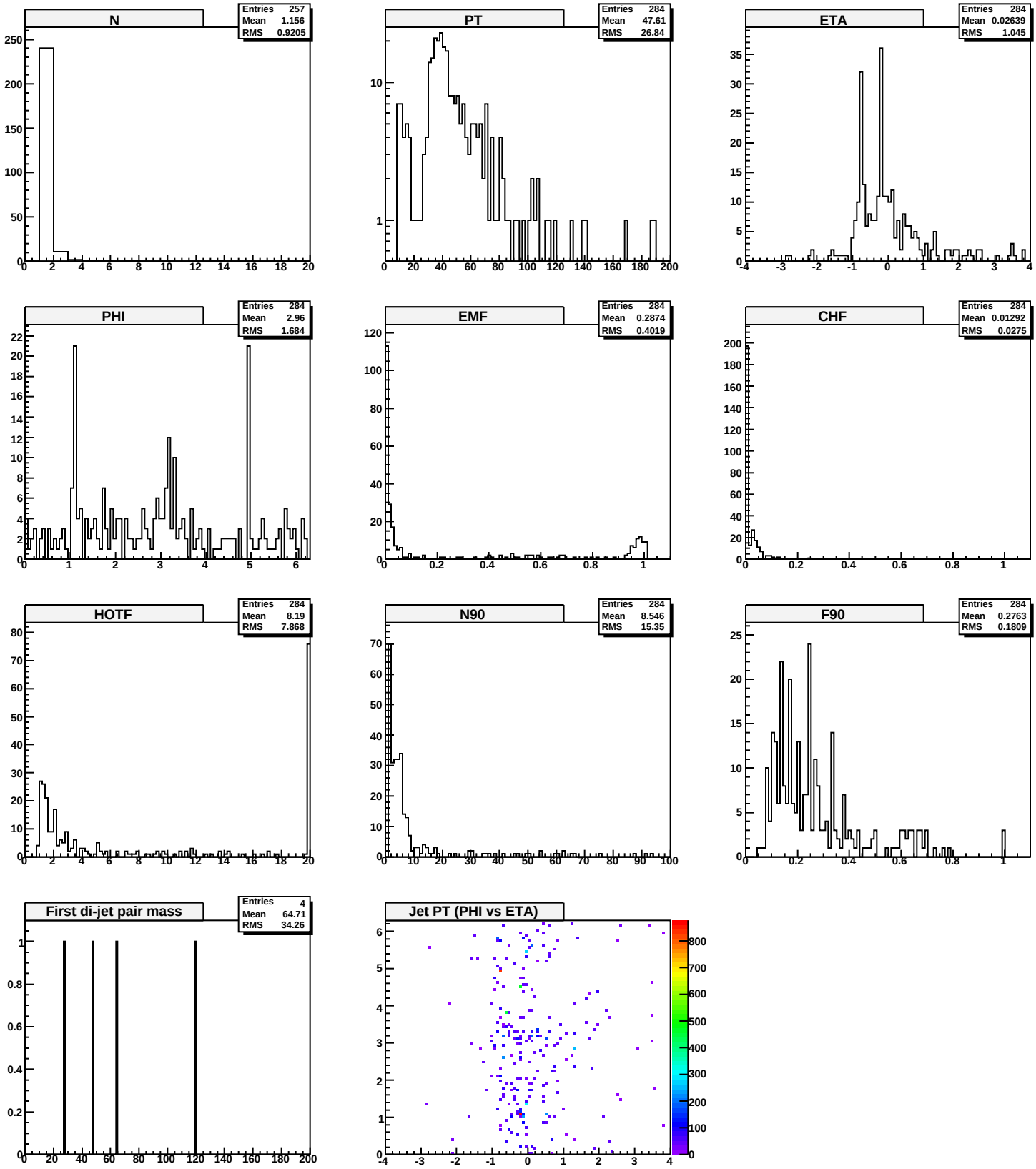
Jets (KT D 1 (no cuts))



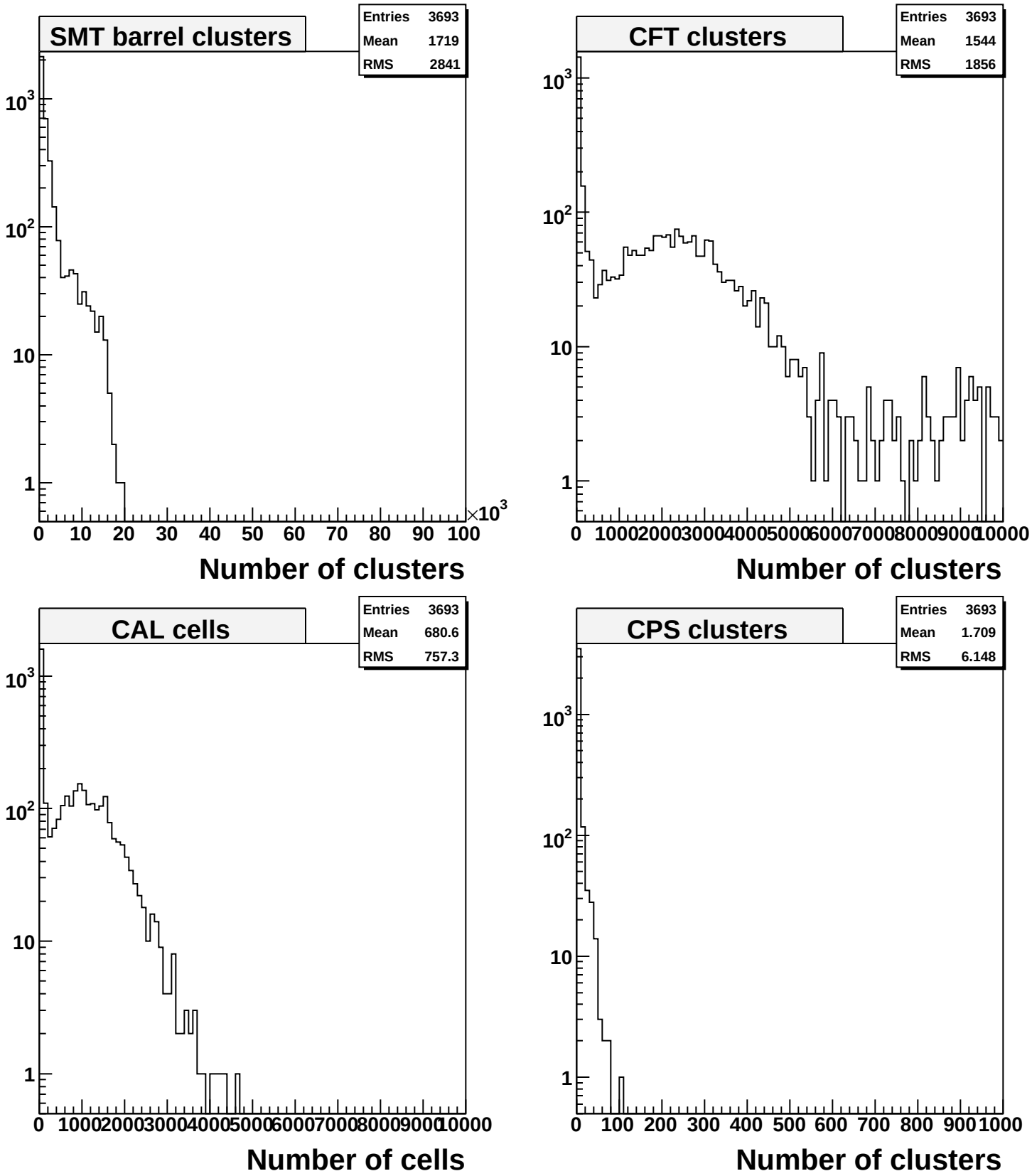
Jets (KT D 1 (standard cuts))



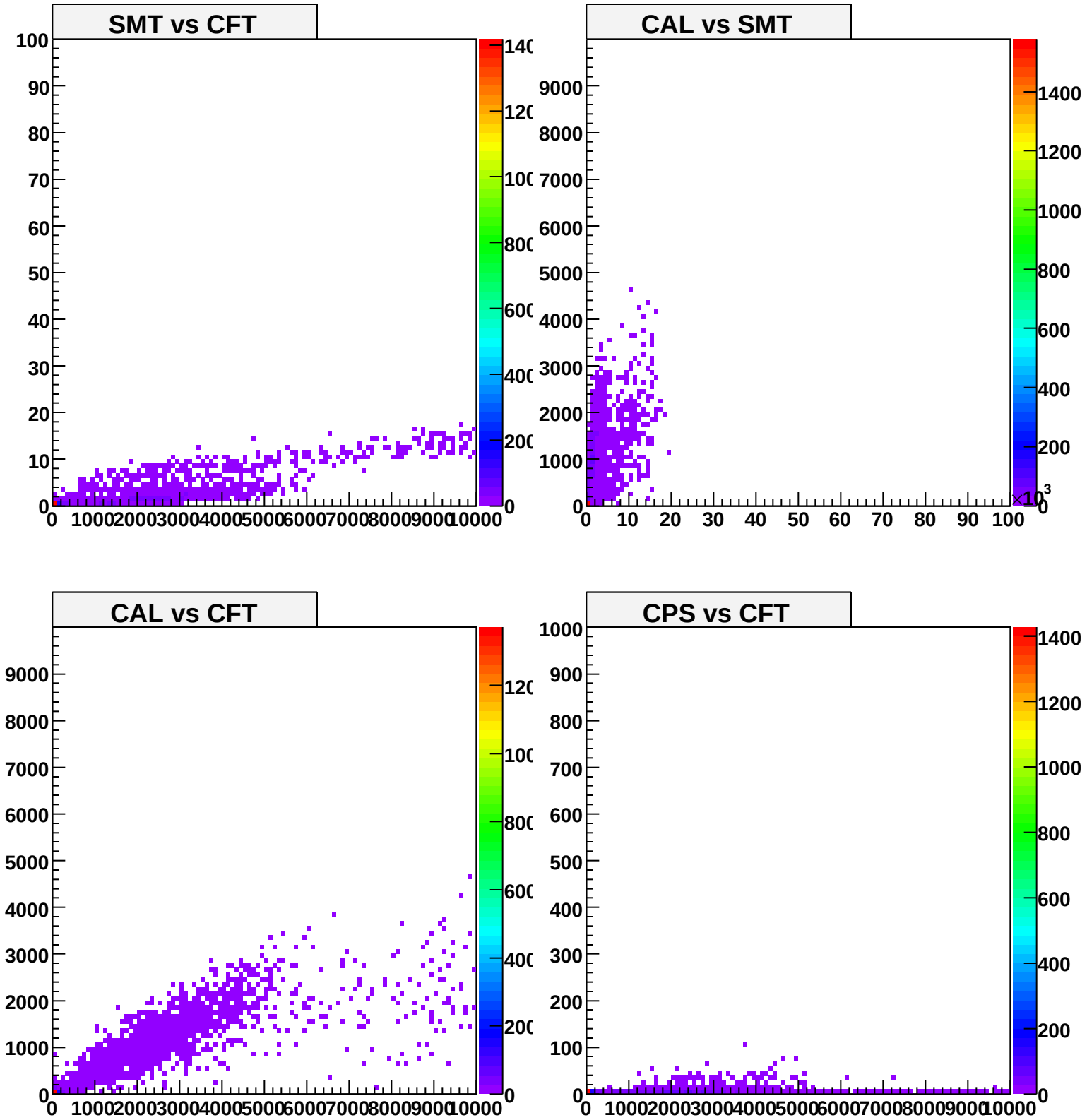
Jets (Cone R 0.7 (standard cuts, MET>30))

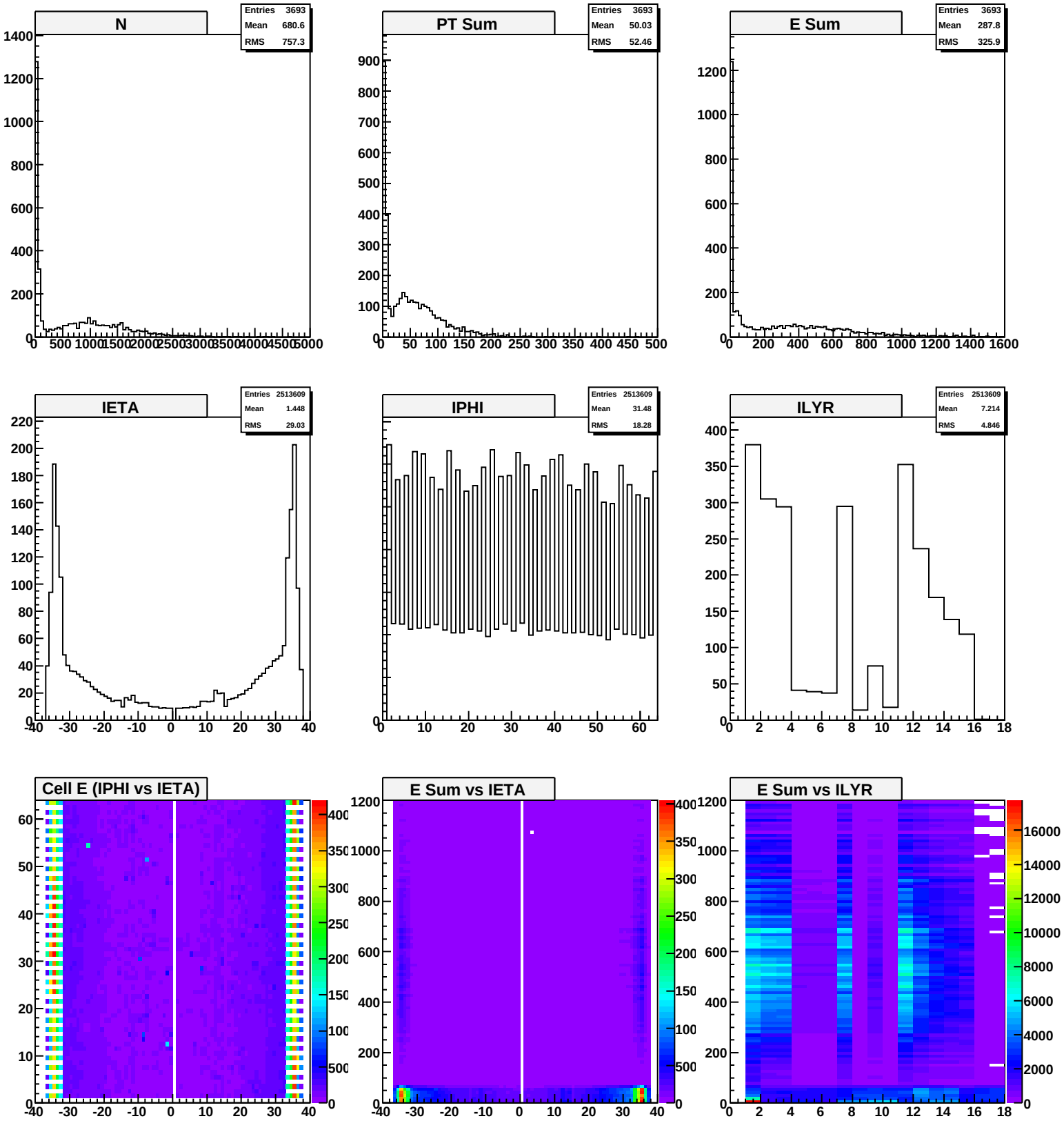


Jets (KT D 1 (standard cuts, MET>30))

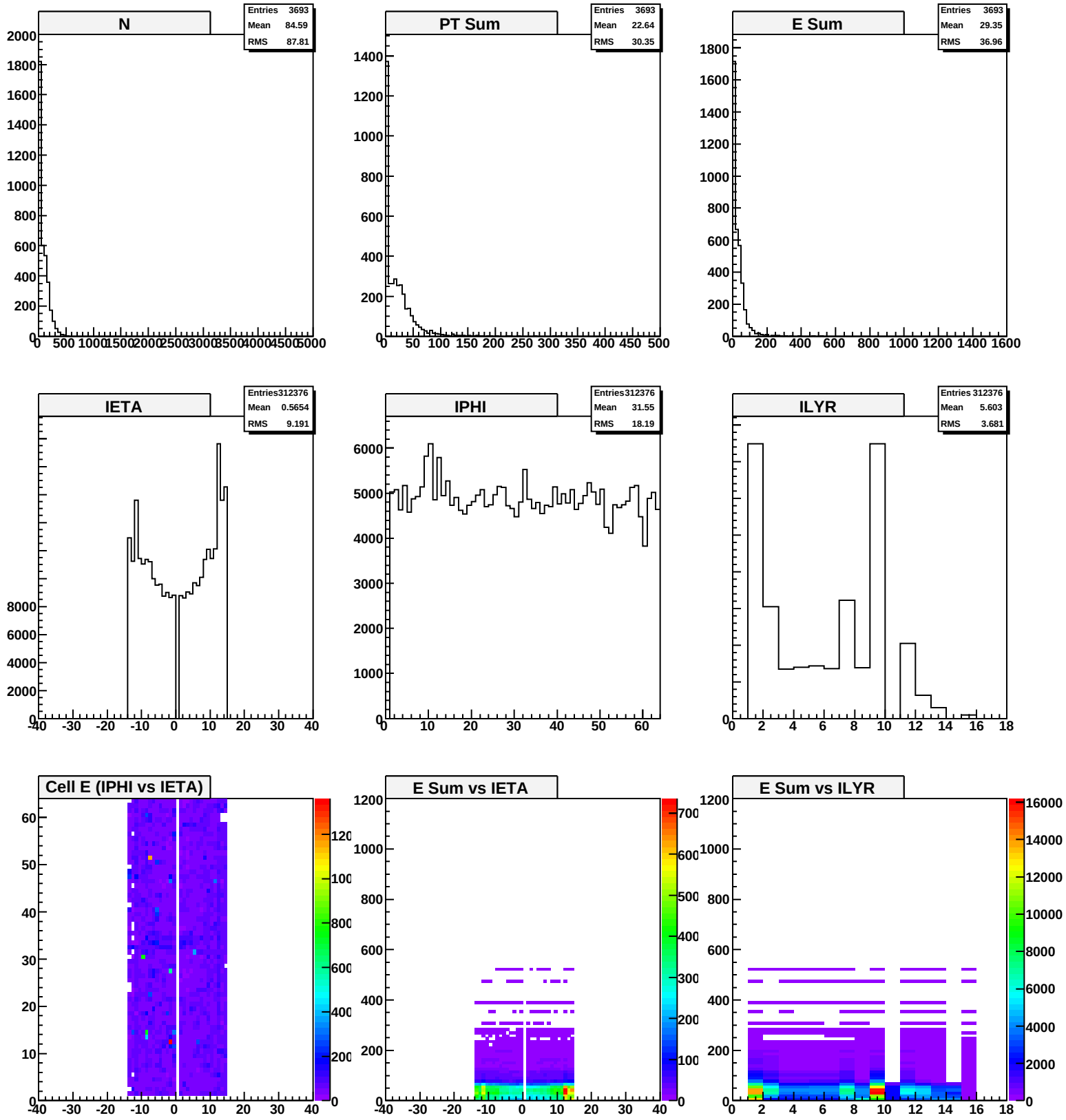


Detector Occupancy (Detector)

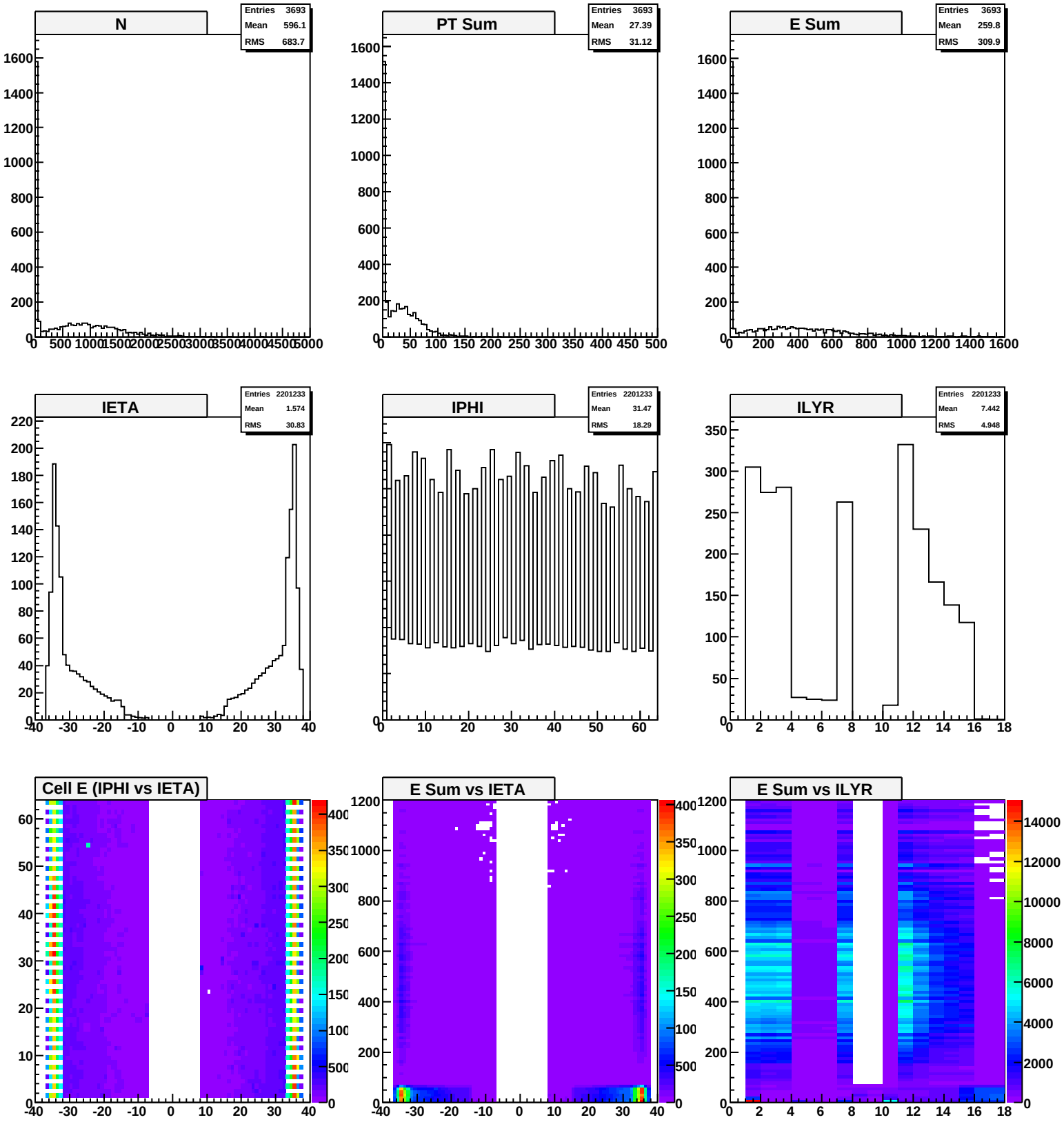

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)



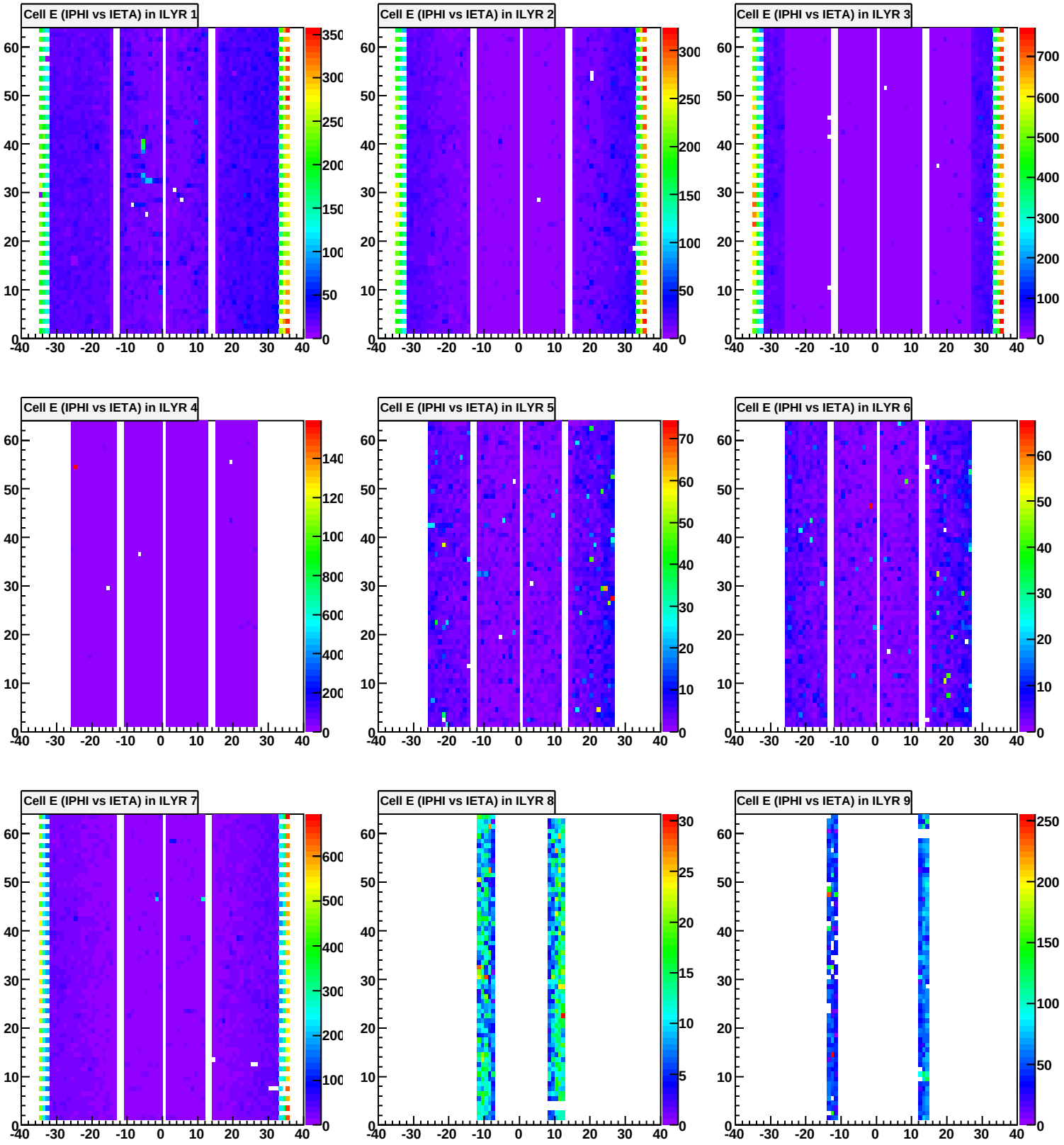
Calorimeter (All cells)



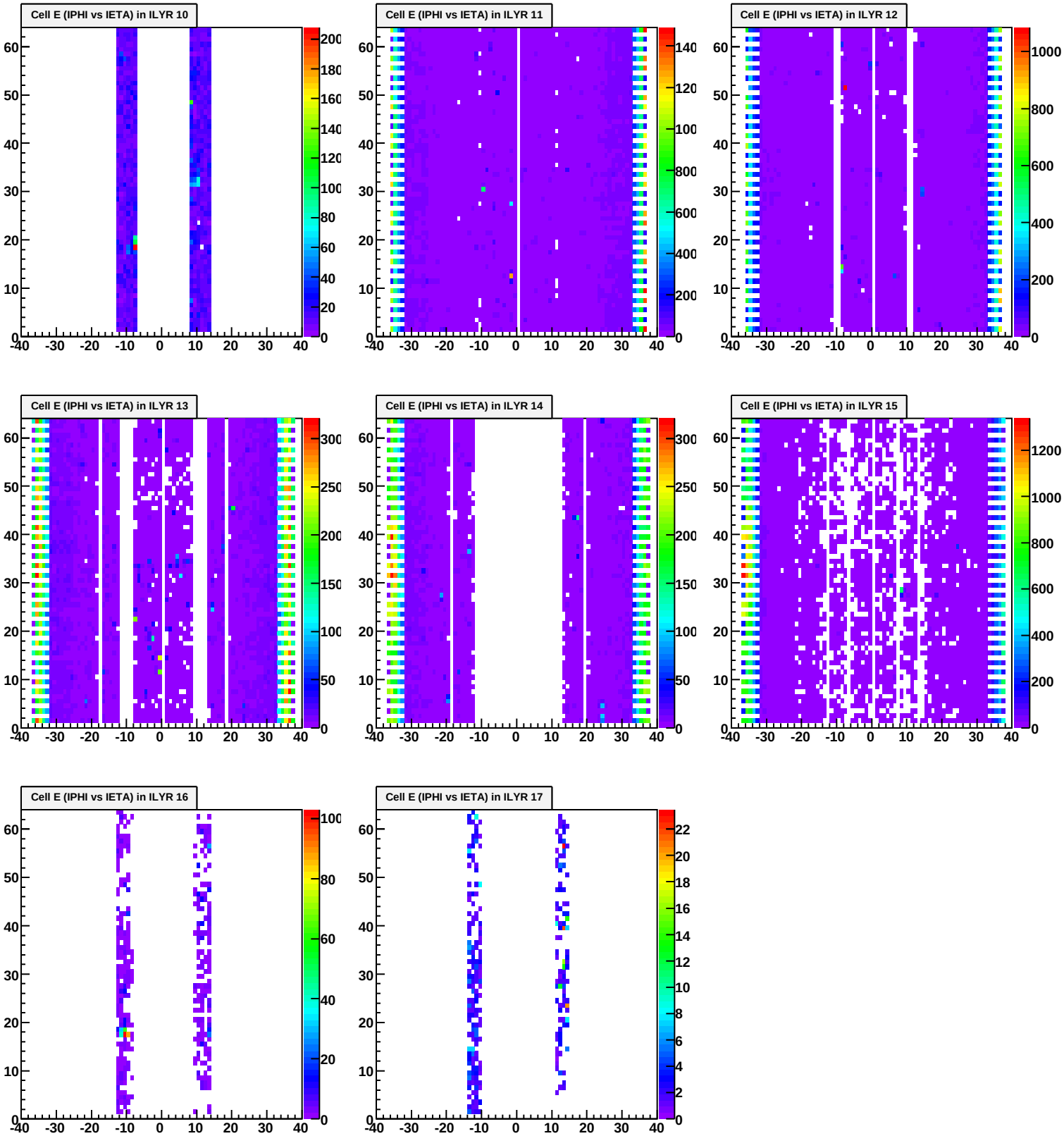
Calorimeter (All CC cells)



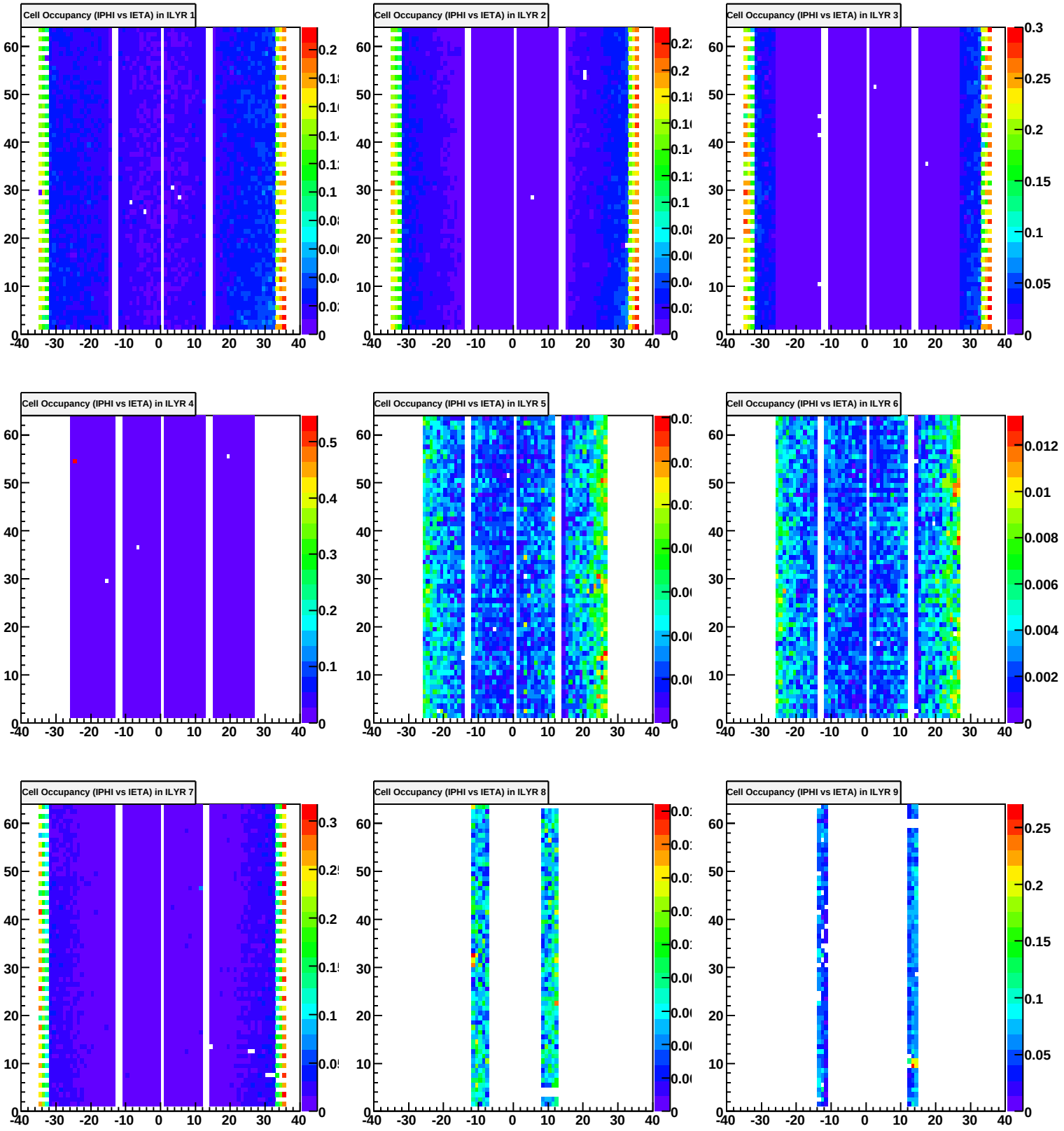
Calorimeter (All EC cells)



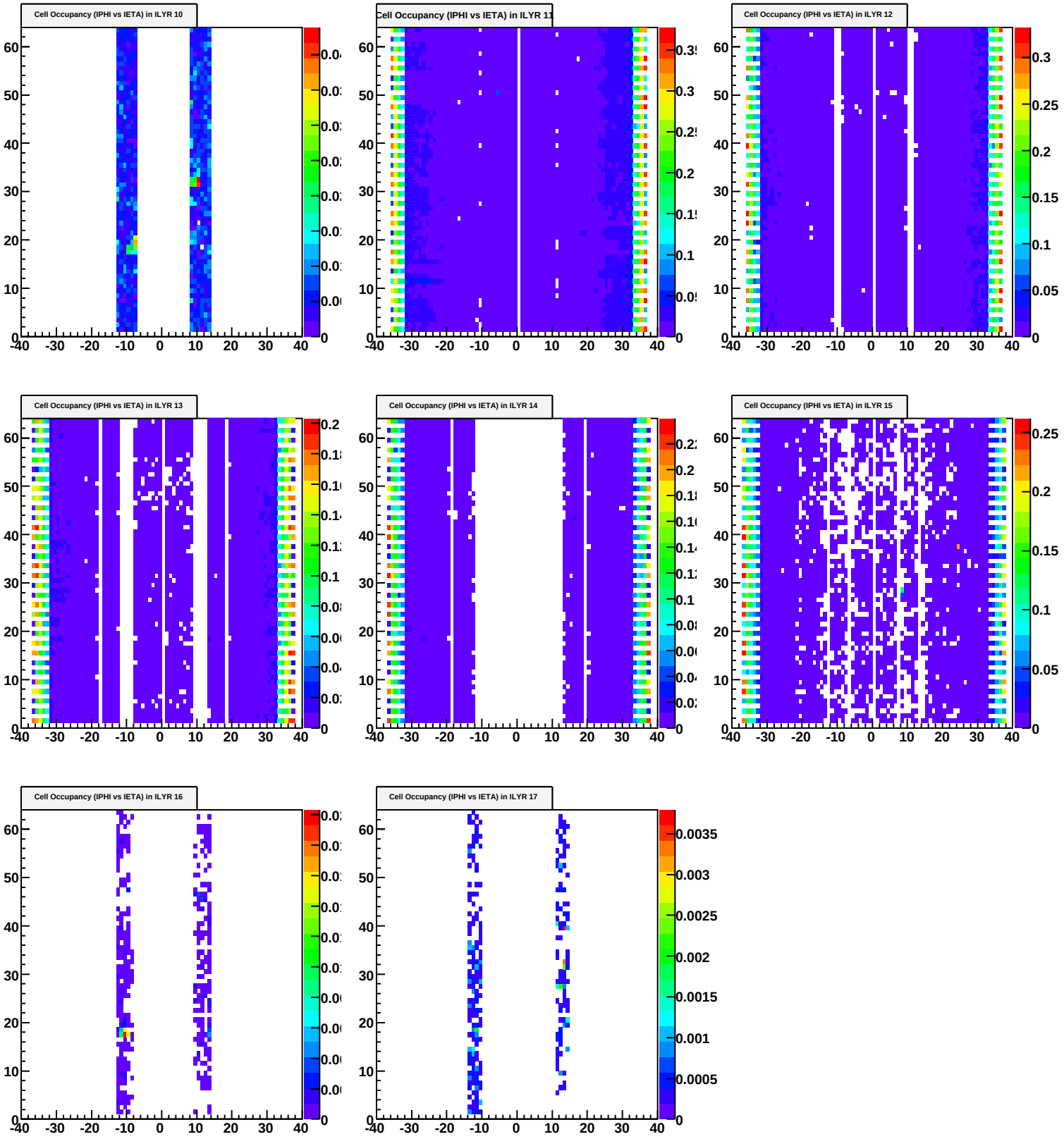
Calorimeter Cell Energy ILYR 1-9 (All cells)



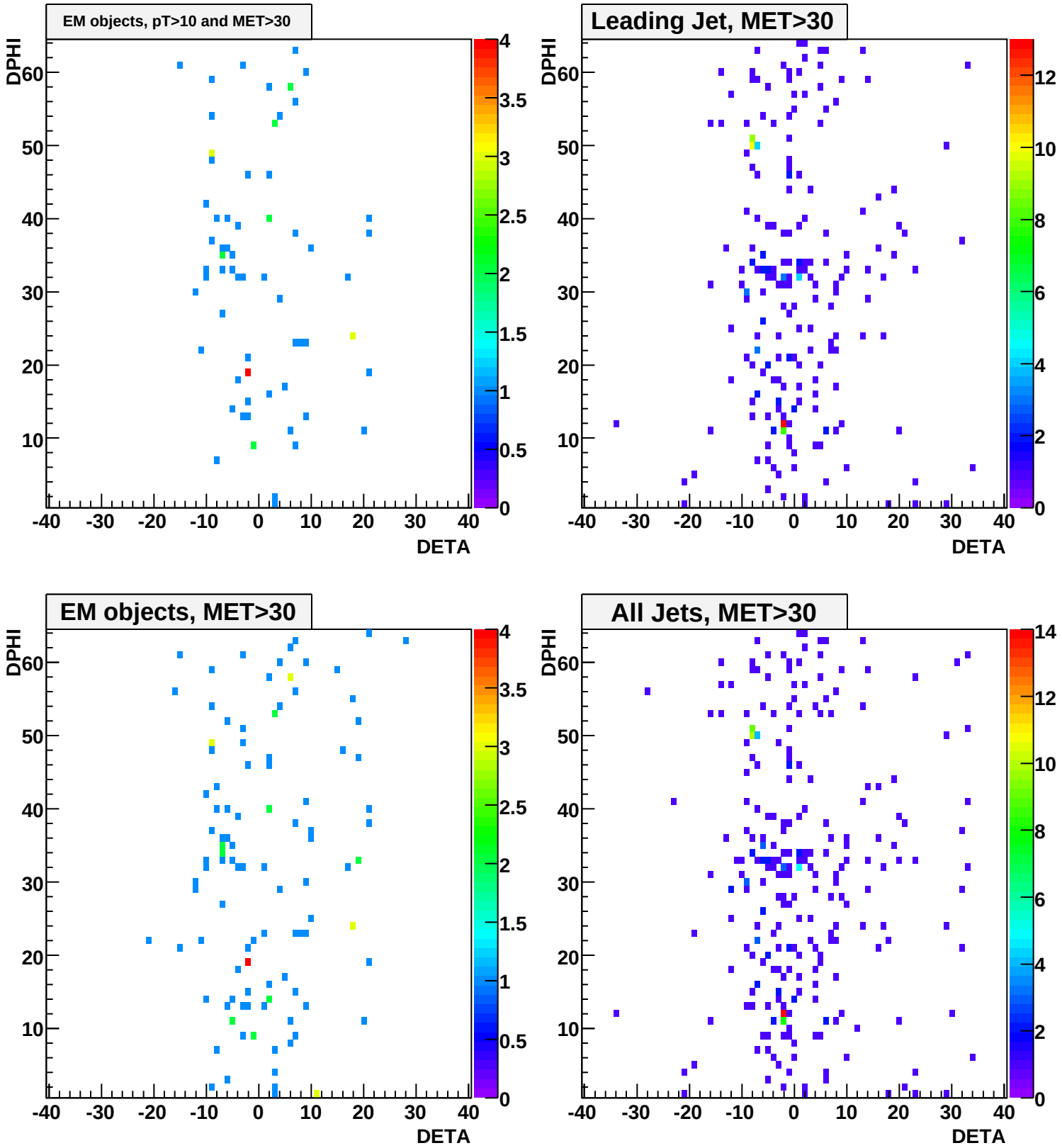
Calorimeter Cell Energy ILYR 10-17 (All cells)



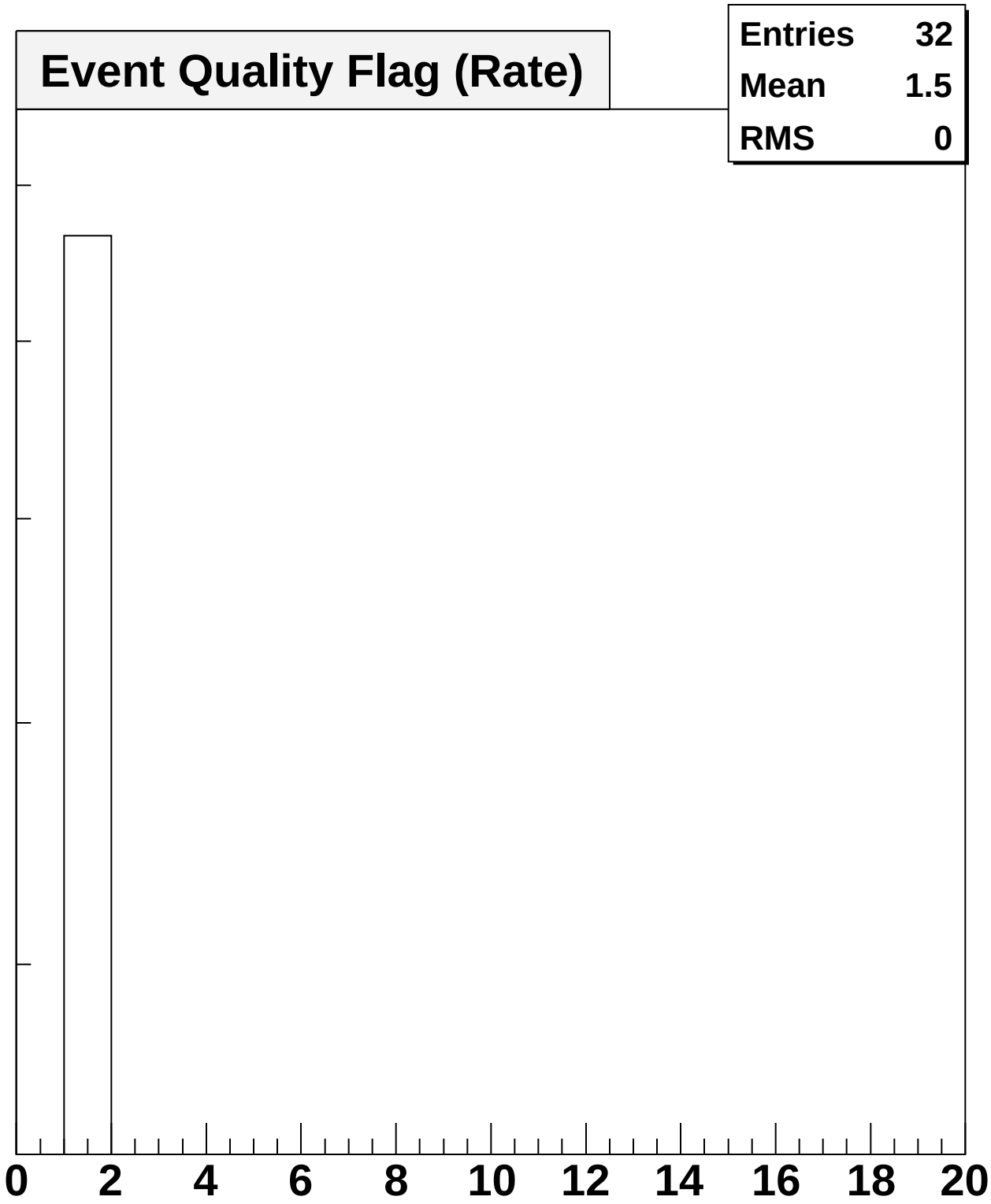
Calorimeter Occupancy ILYR 1-9 (All cells)



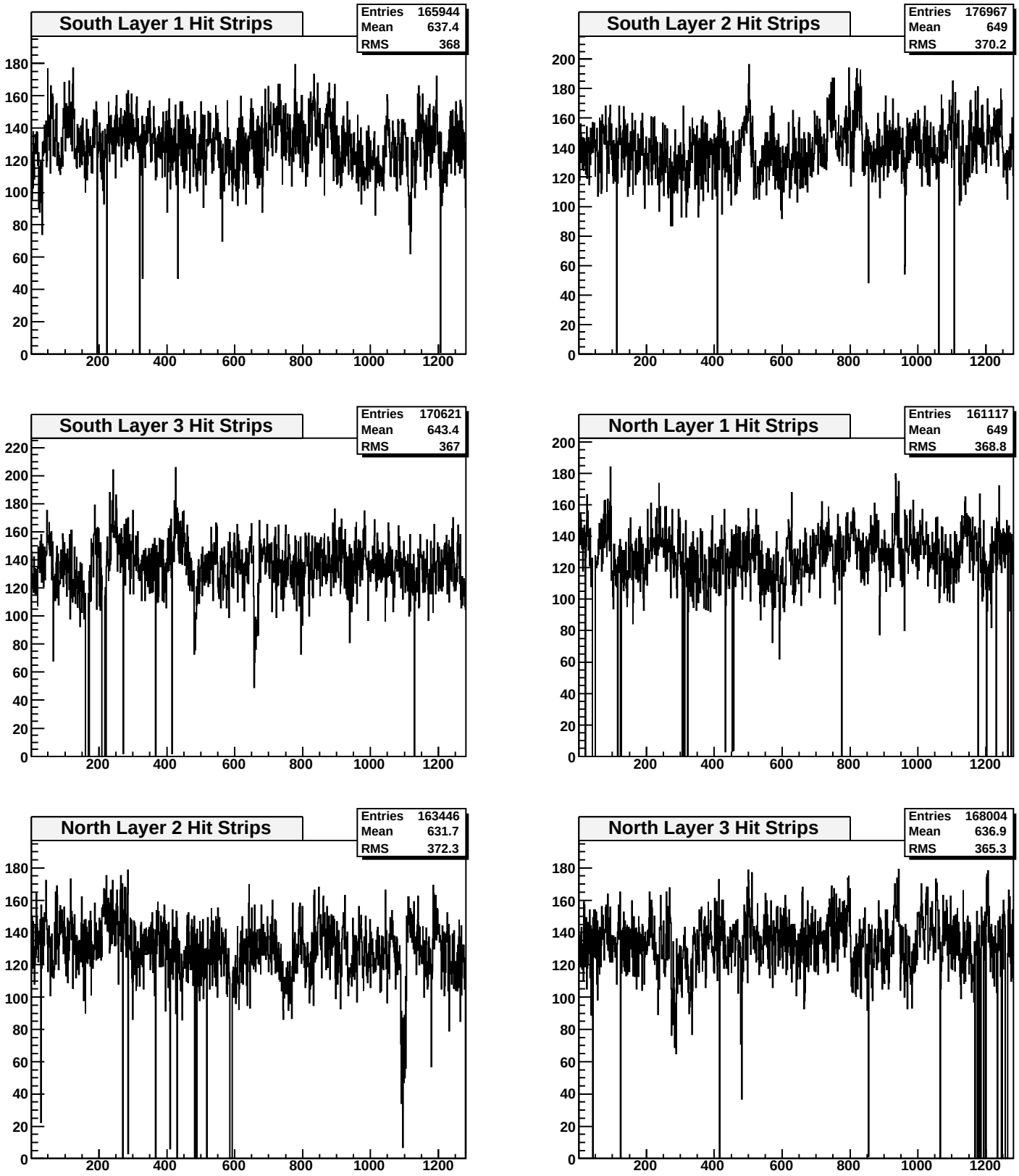
Calorimeter Occupancy ILYR 10-17 (All cells)



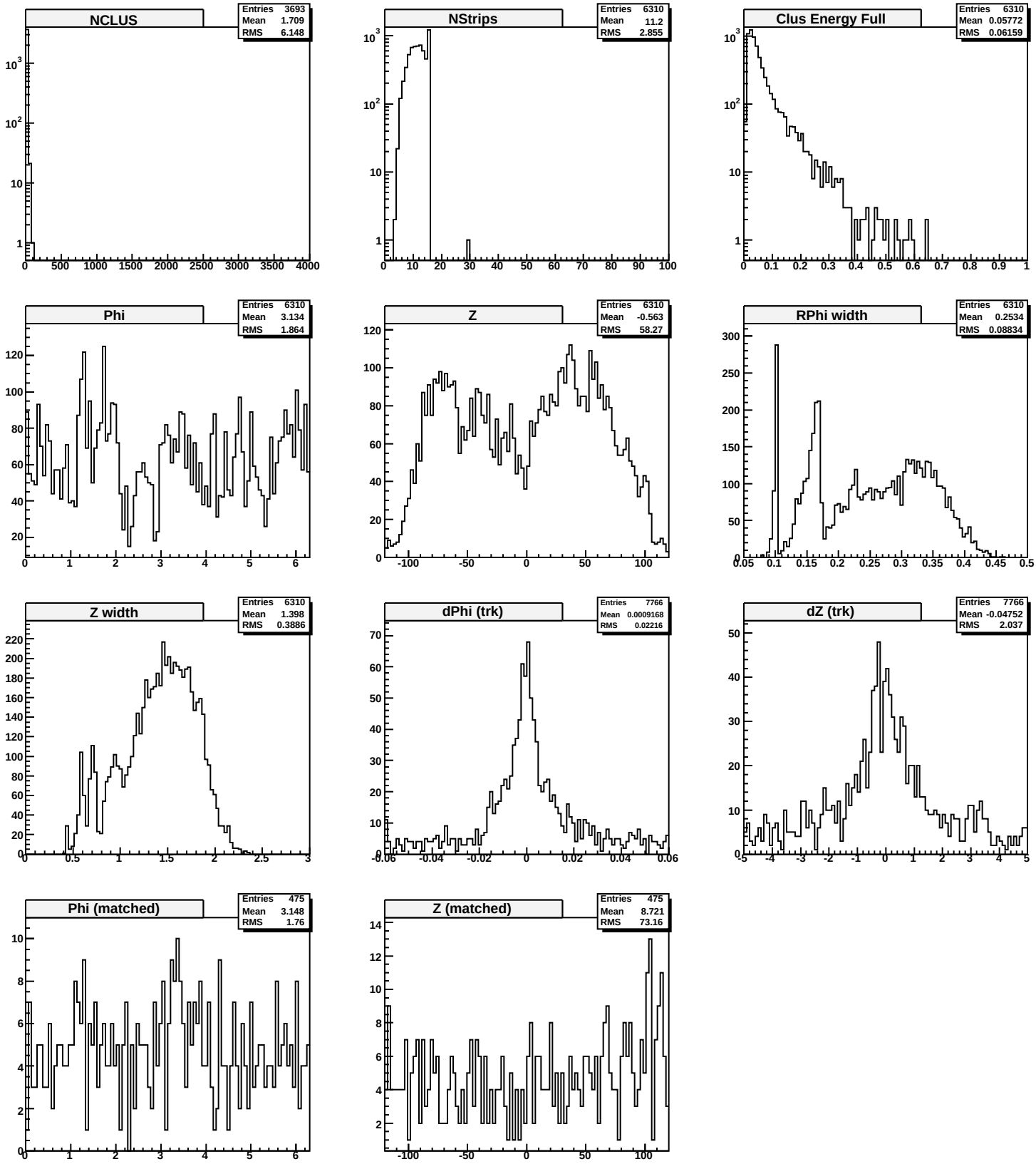
Cal Objects with MET>30 (All cells)



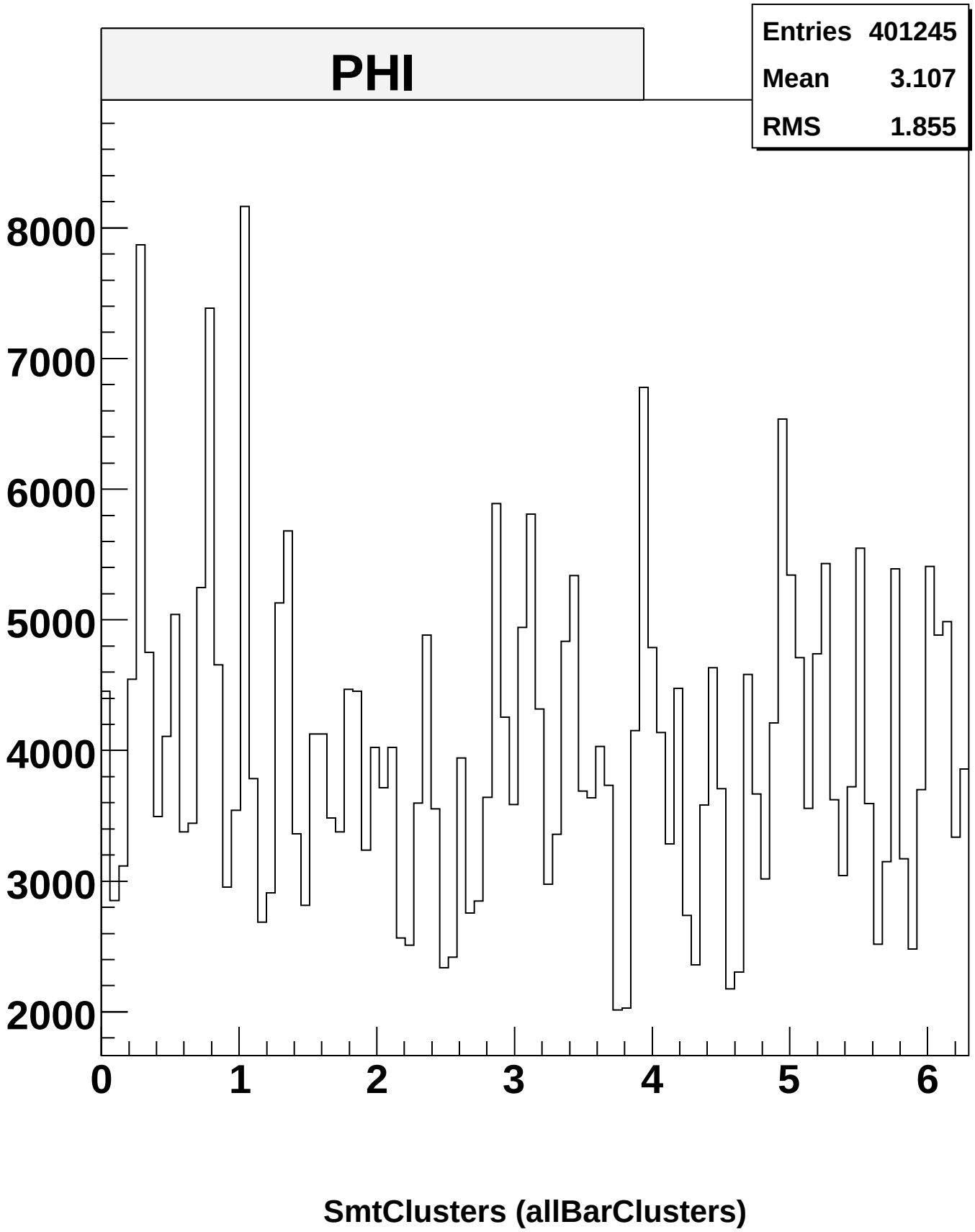
Calorimeter Event Quality (All cells)

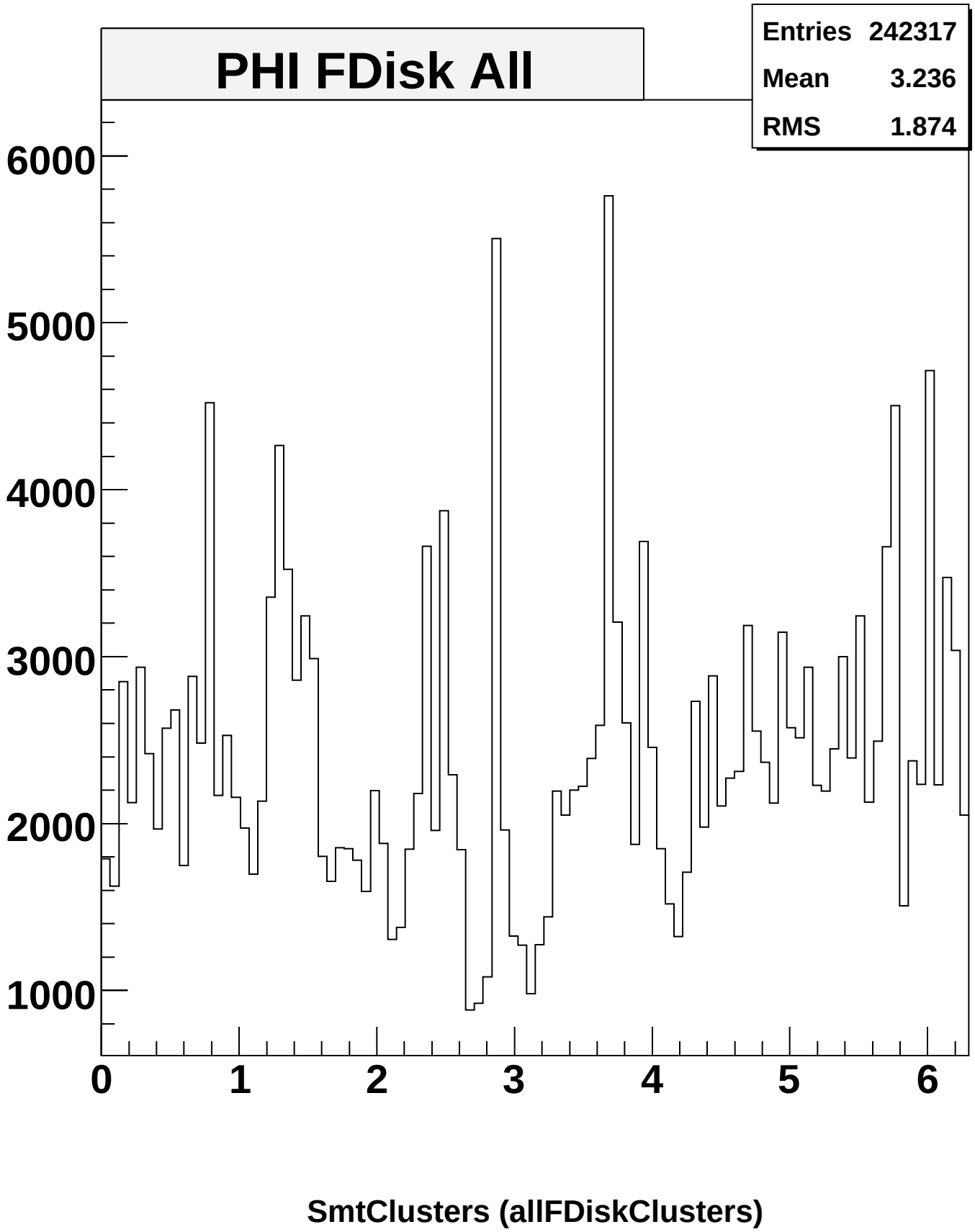


CPS Hit Strips (All Clusters)



CPS Clusters (All Clusters)


PHI
Entries 401245
Mean 3.107
RMS 1.855
8000
7000
6000
5000
4000
3000
2000
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 242317
Mean 3.236
RMS 1.874
6000
5000
4000
3000
2000
1000
0
1
2
3
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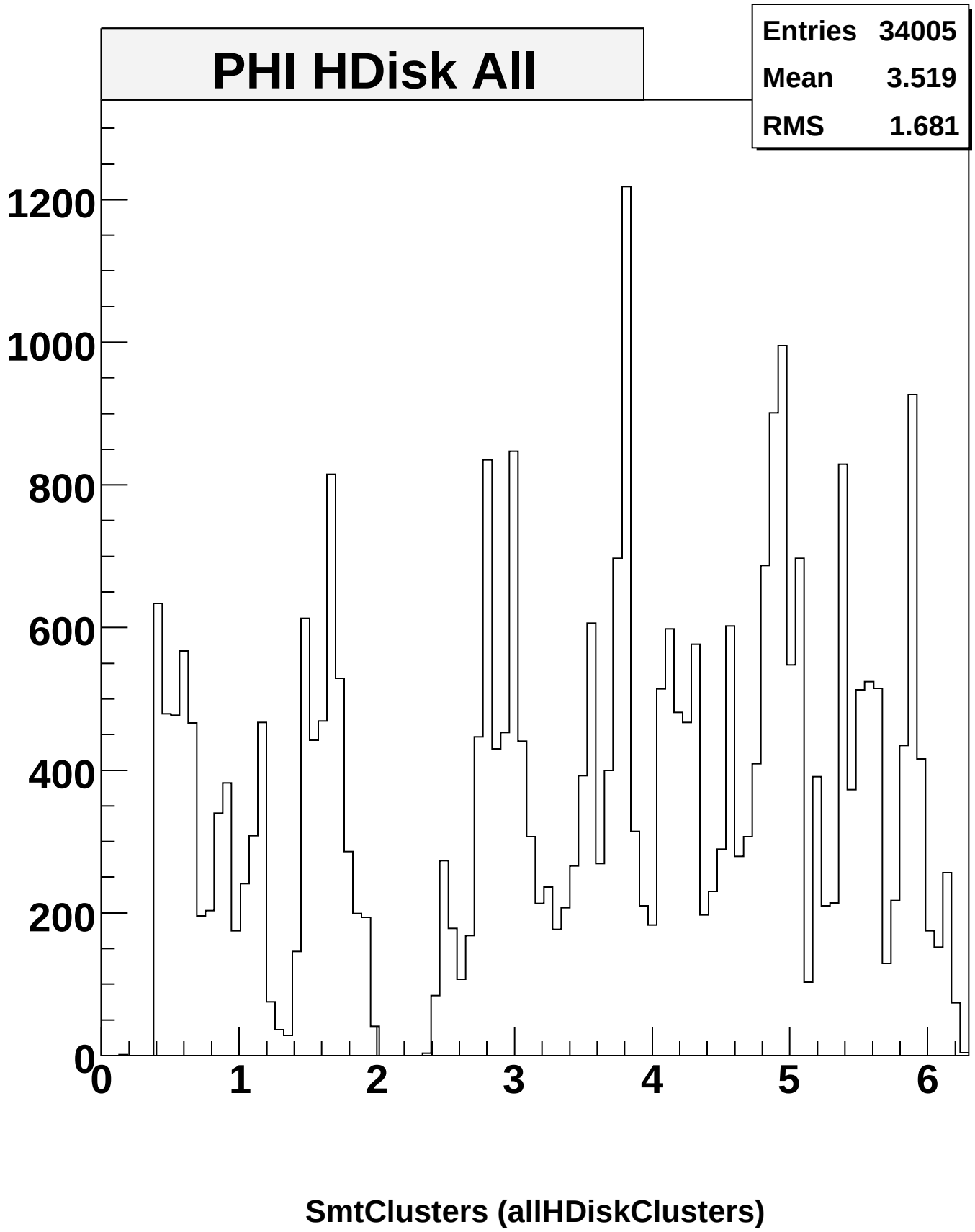
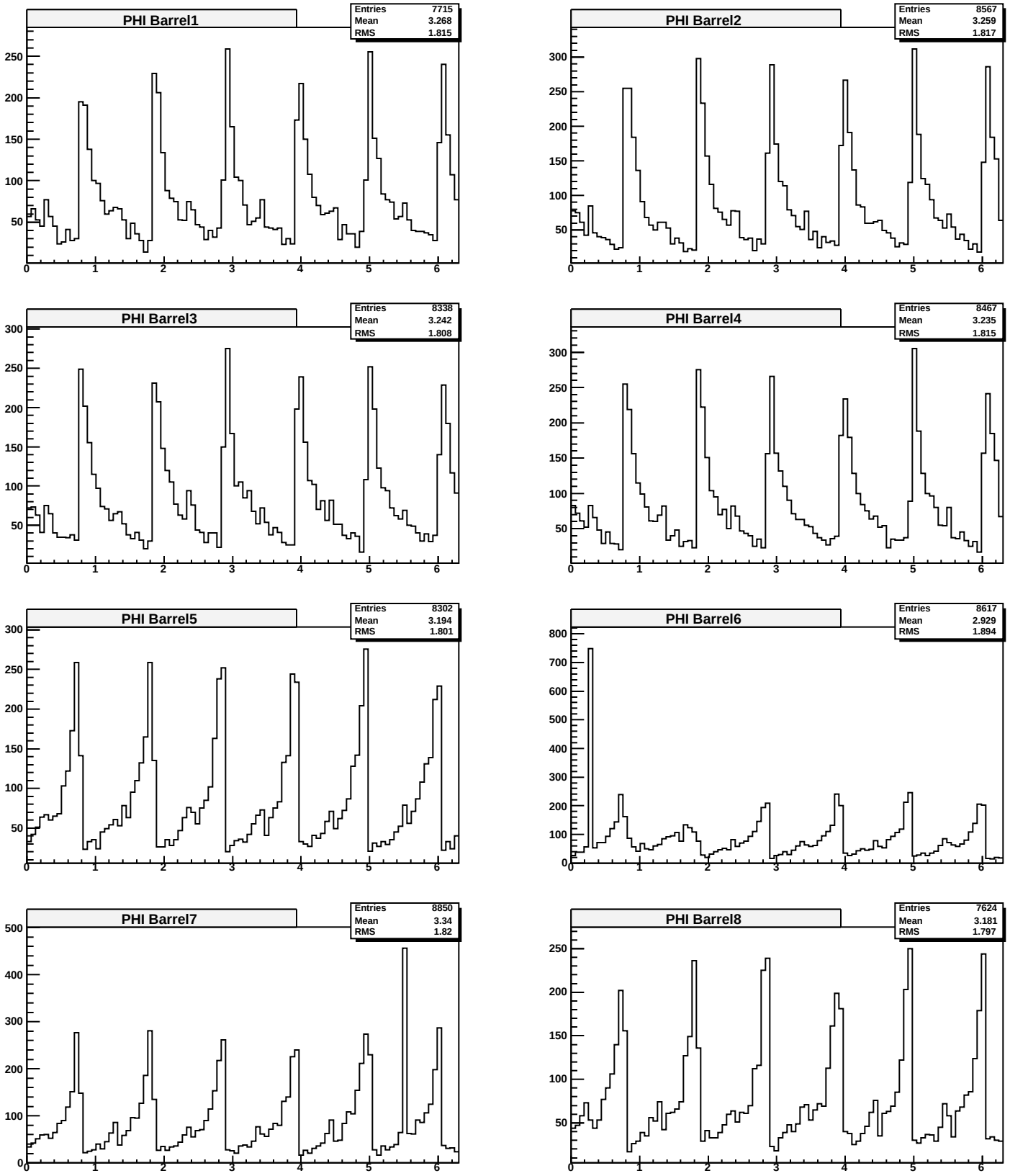
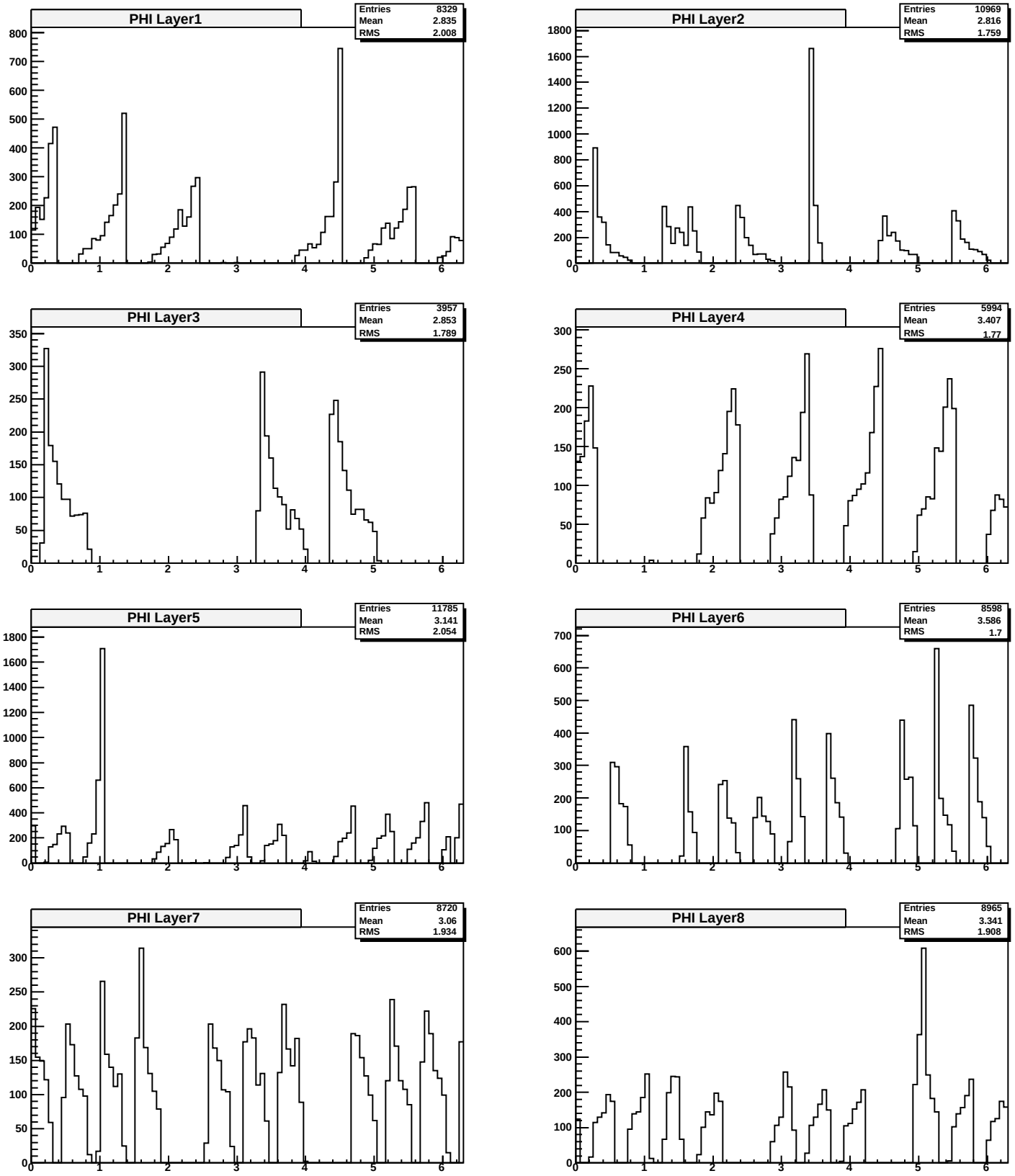
5
6
SmtClusters (allFDiskClusters)

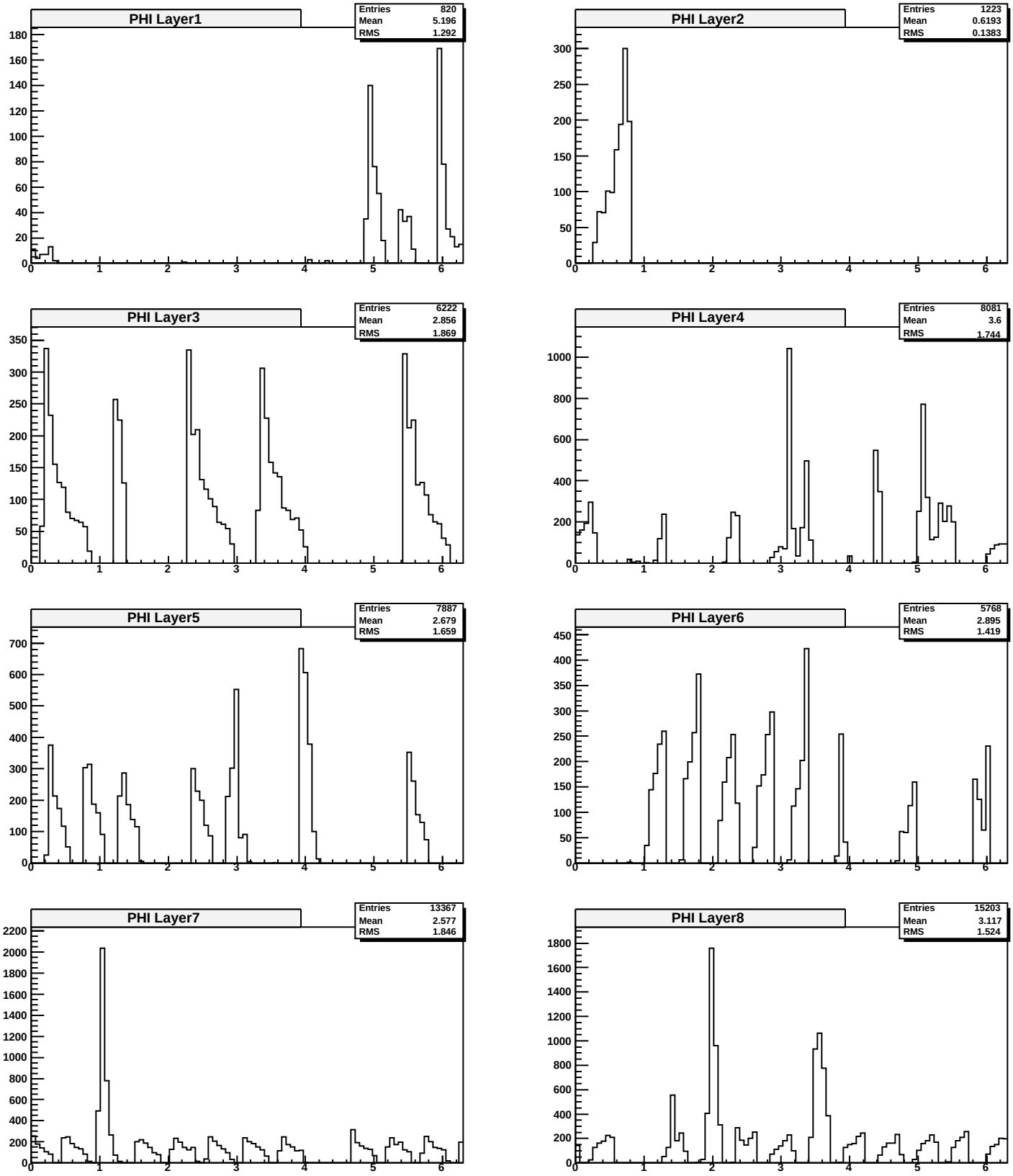

PHI HDisk All
Entries 34005
Mean 3.519
RMS 1.681
1200
1000
800
600
400
200
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)



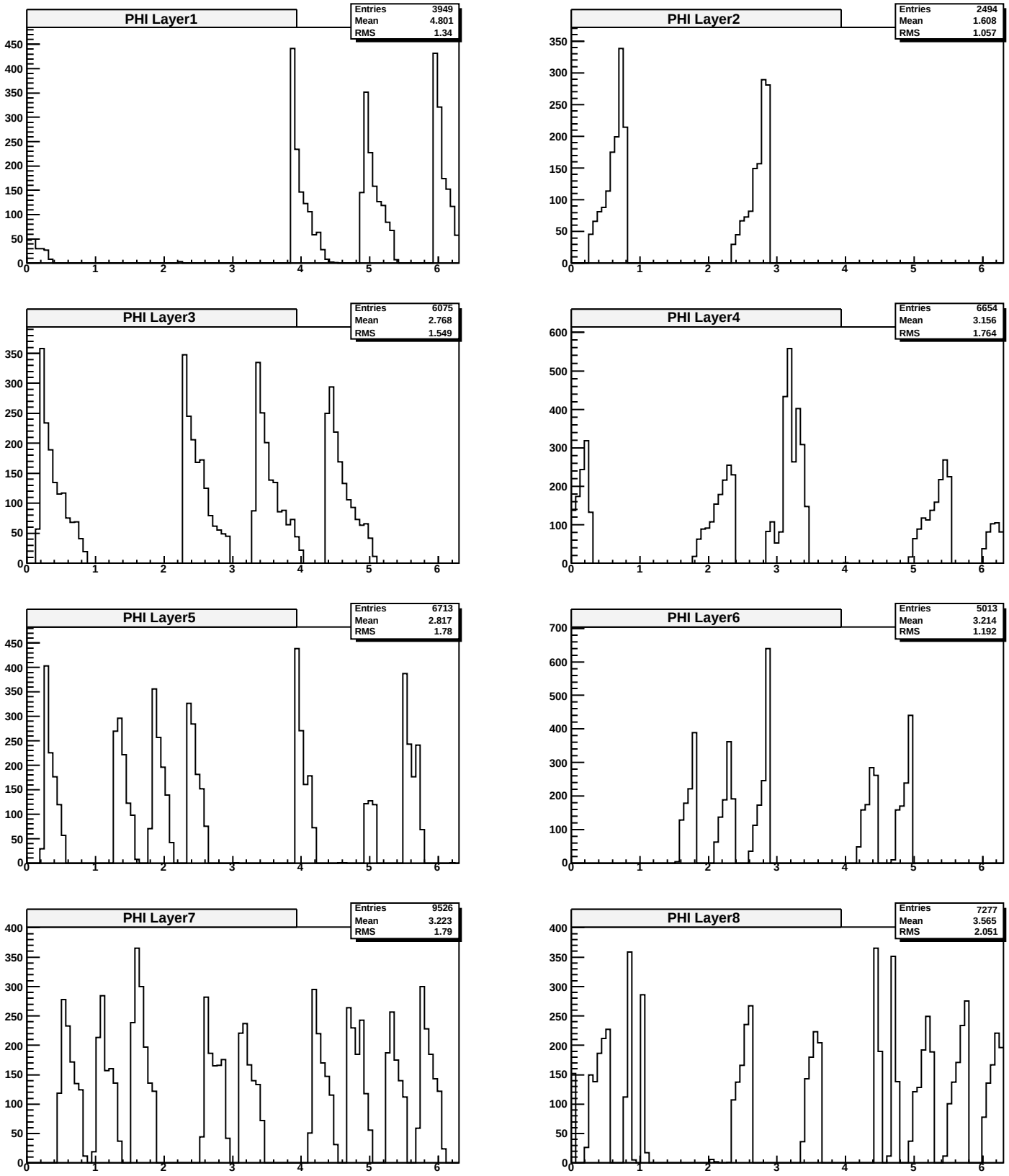
SmtClusters (ClustrLayer0)



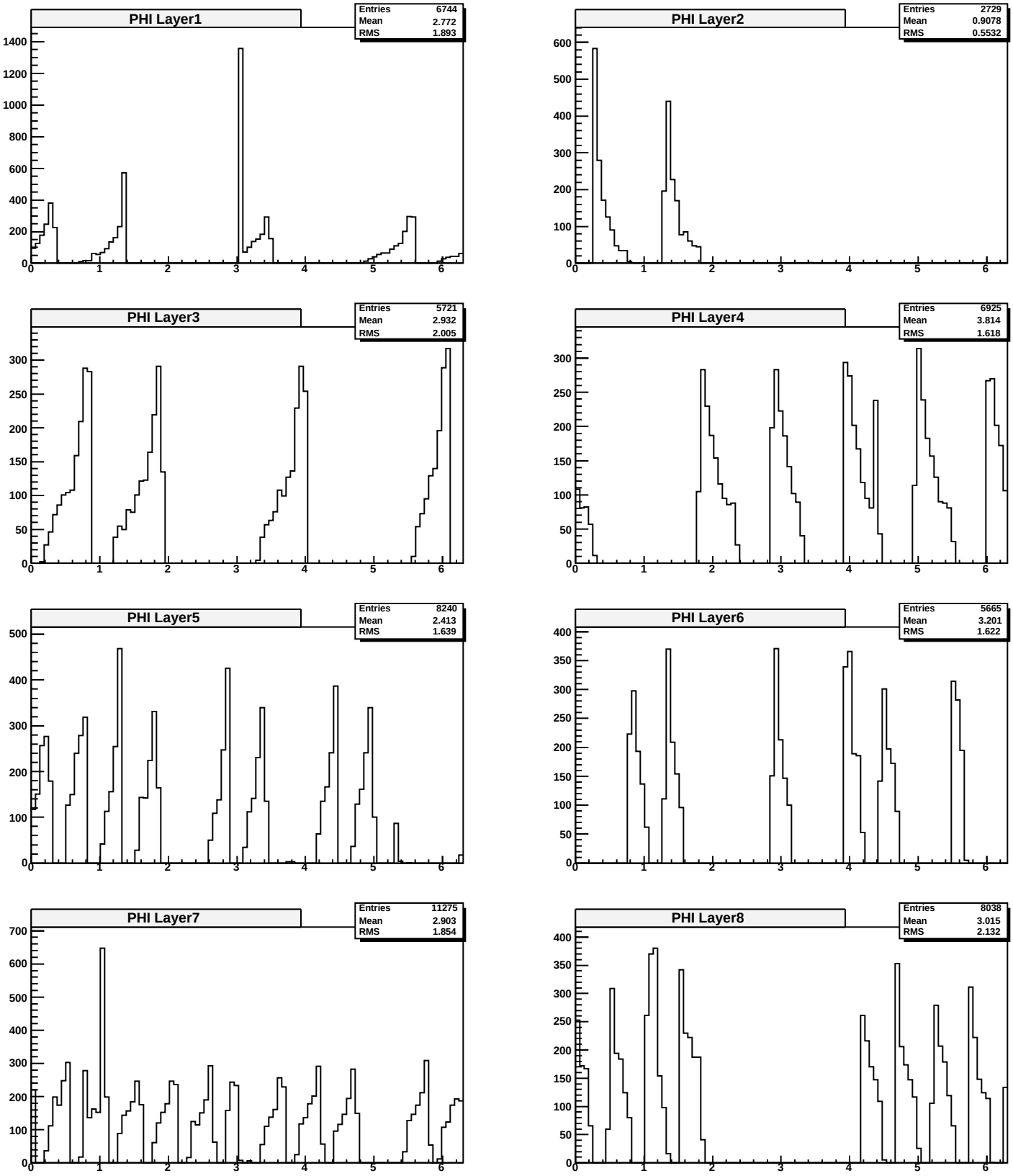
SmtClusters (ClustrBar1)



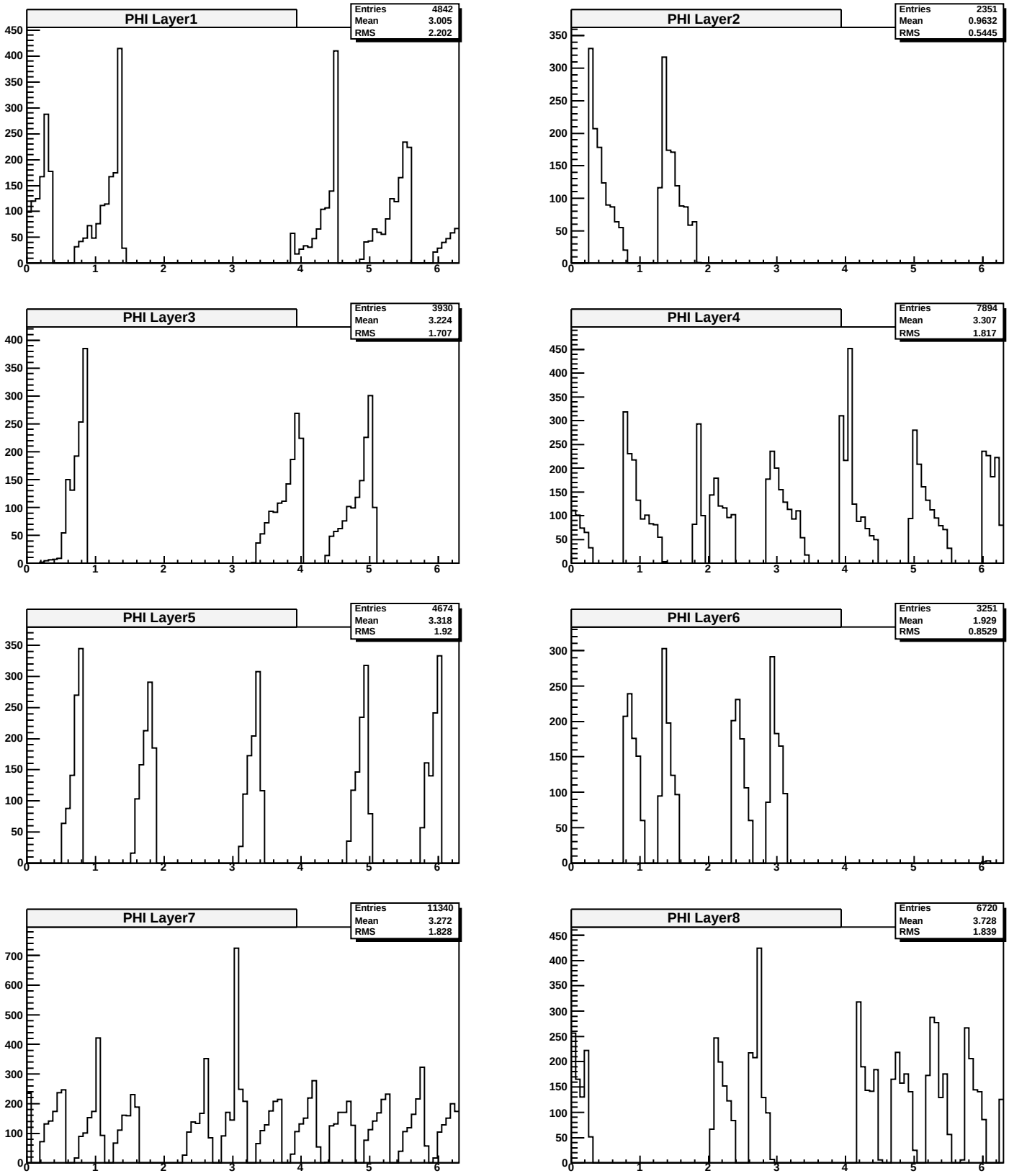
SmtClusters (ClustrBar2)



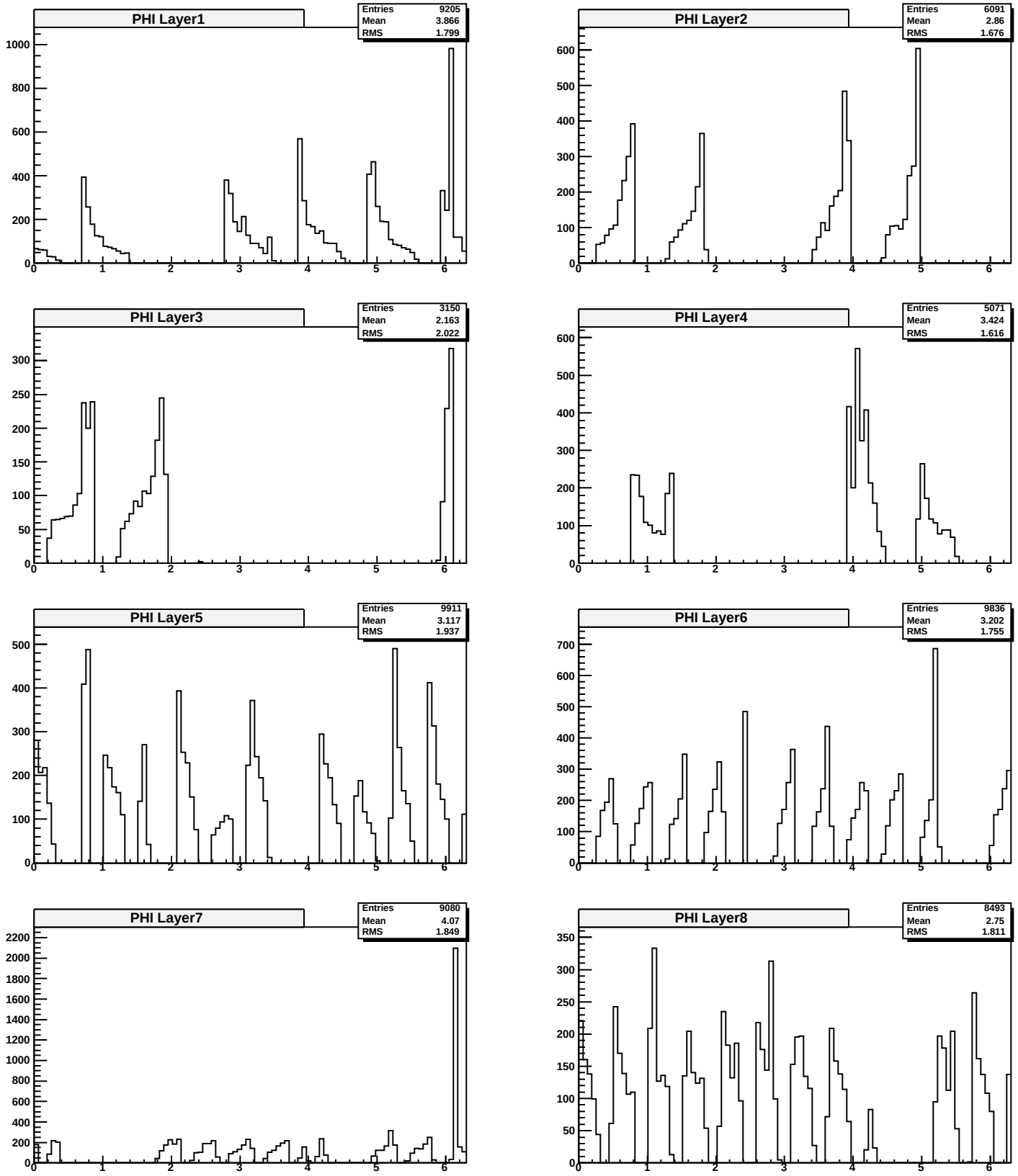
SmtClusters (ClustrBar3)



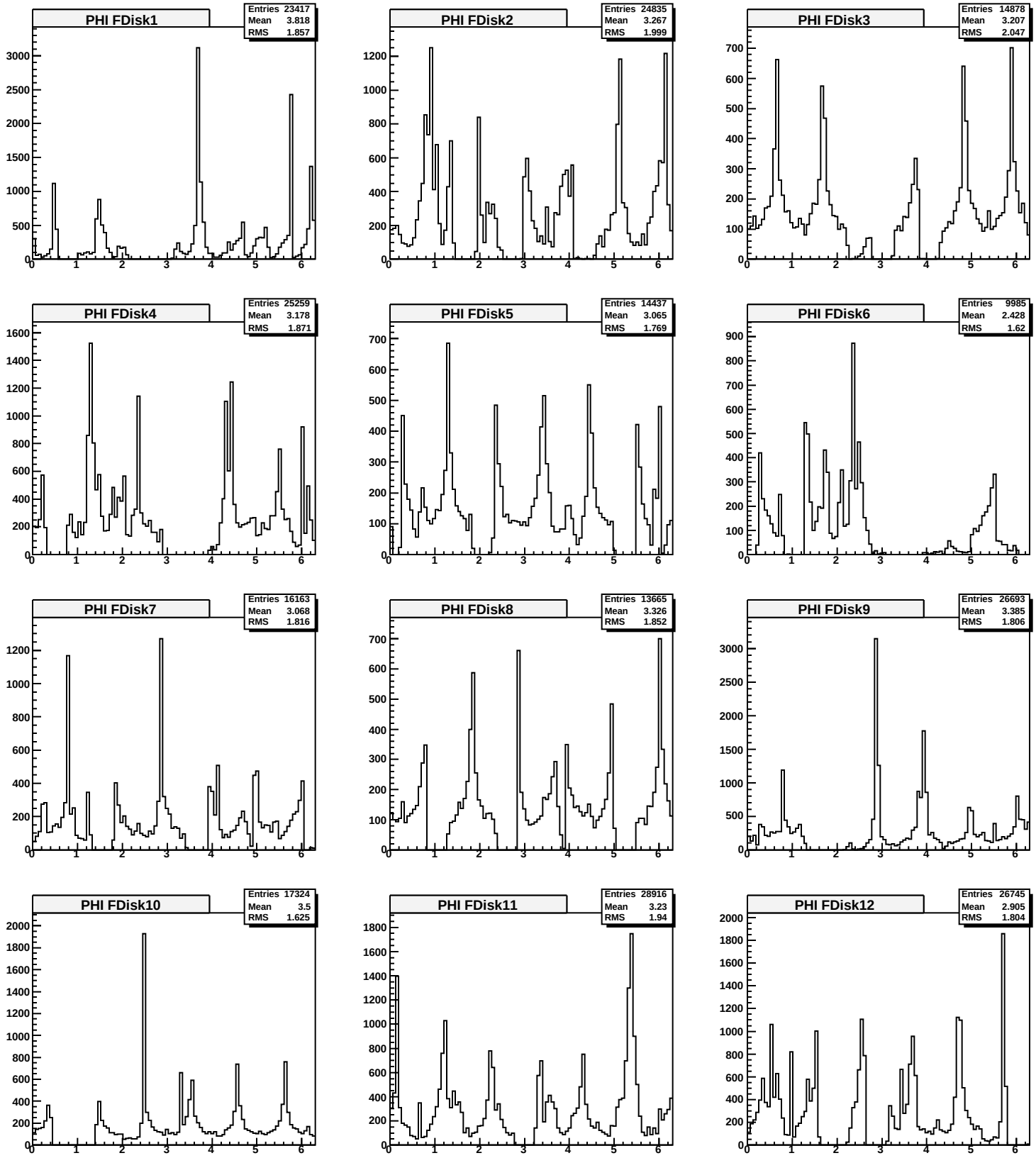
SmtClusters (ClustrBar4)



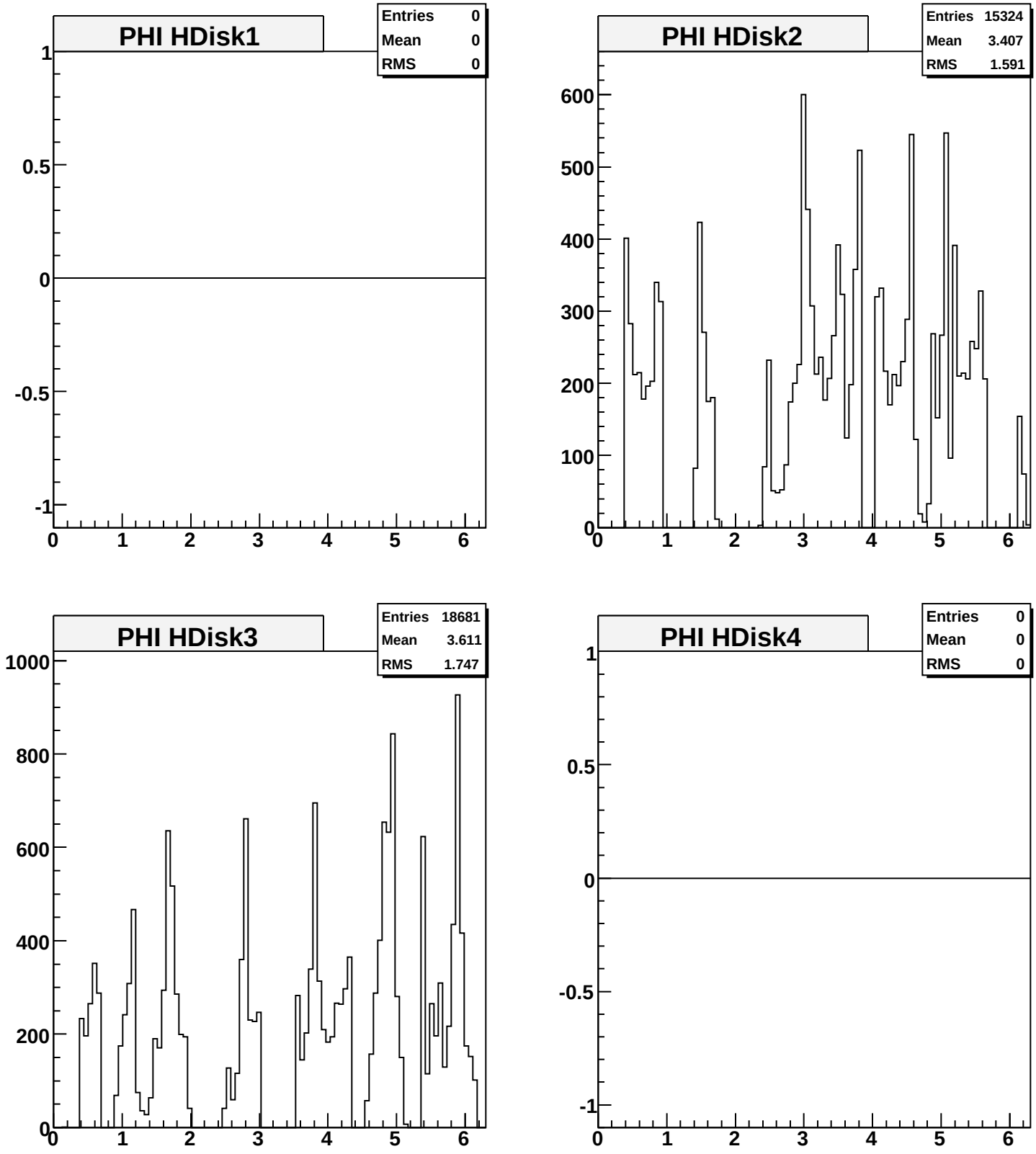
SmtClusters (ClustrBar5)



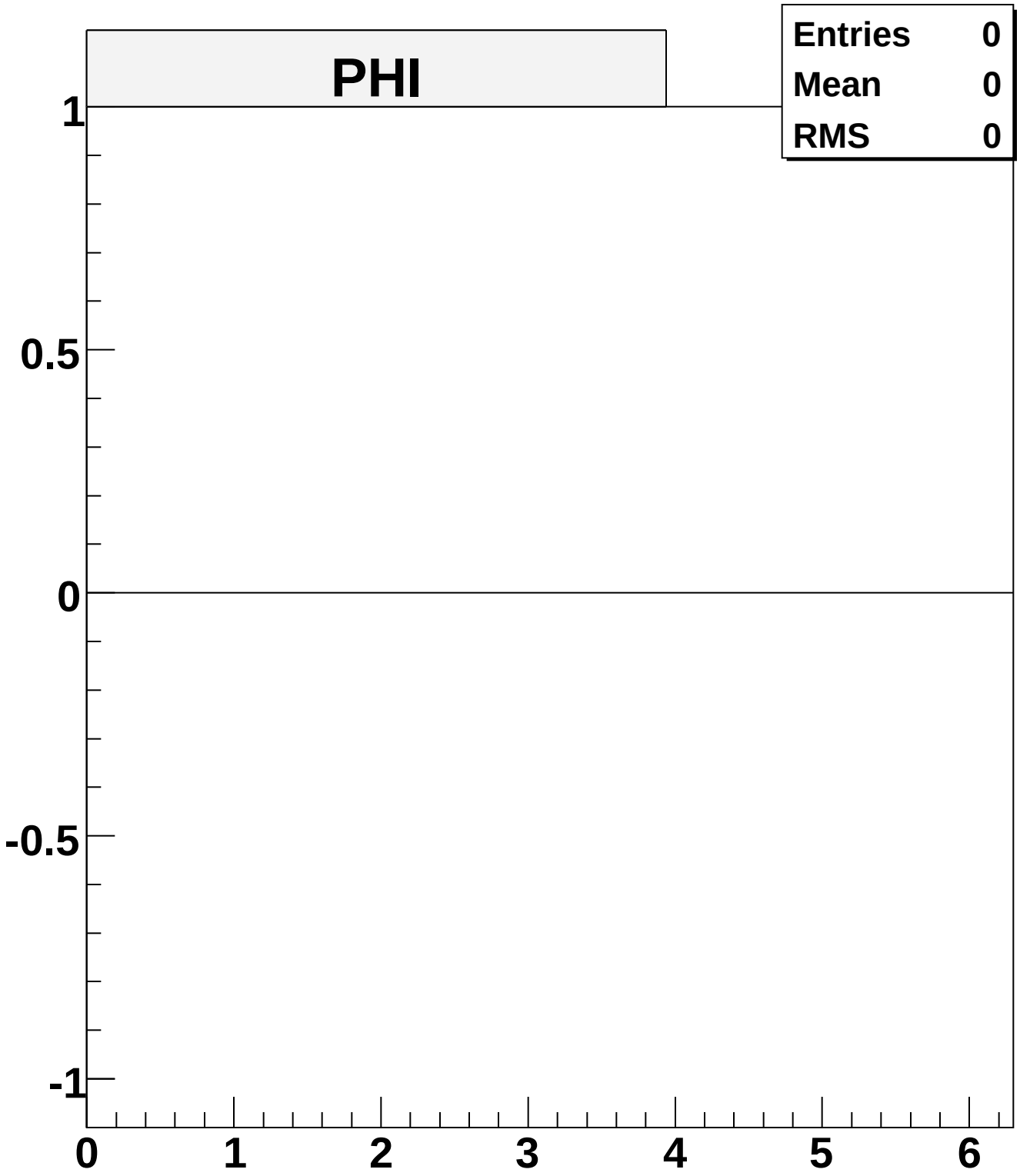
SmtClusters (ClustrBar6)



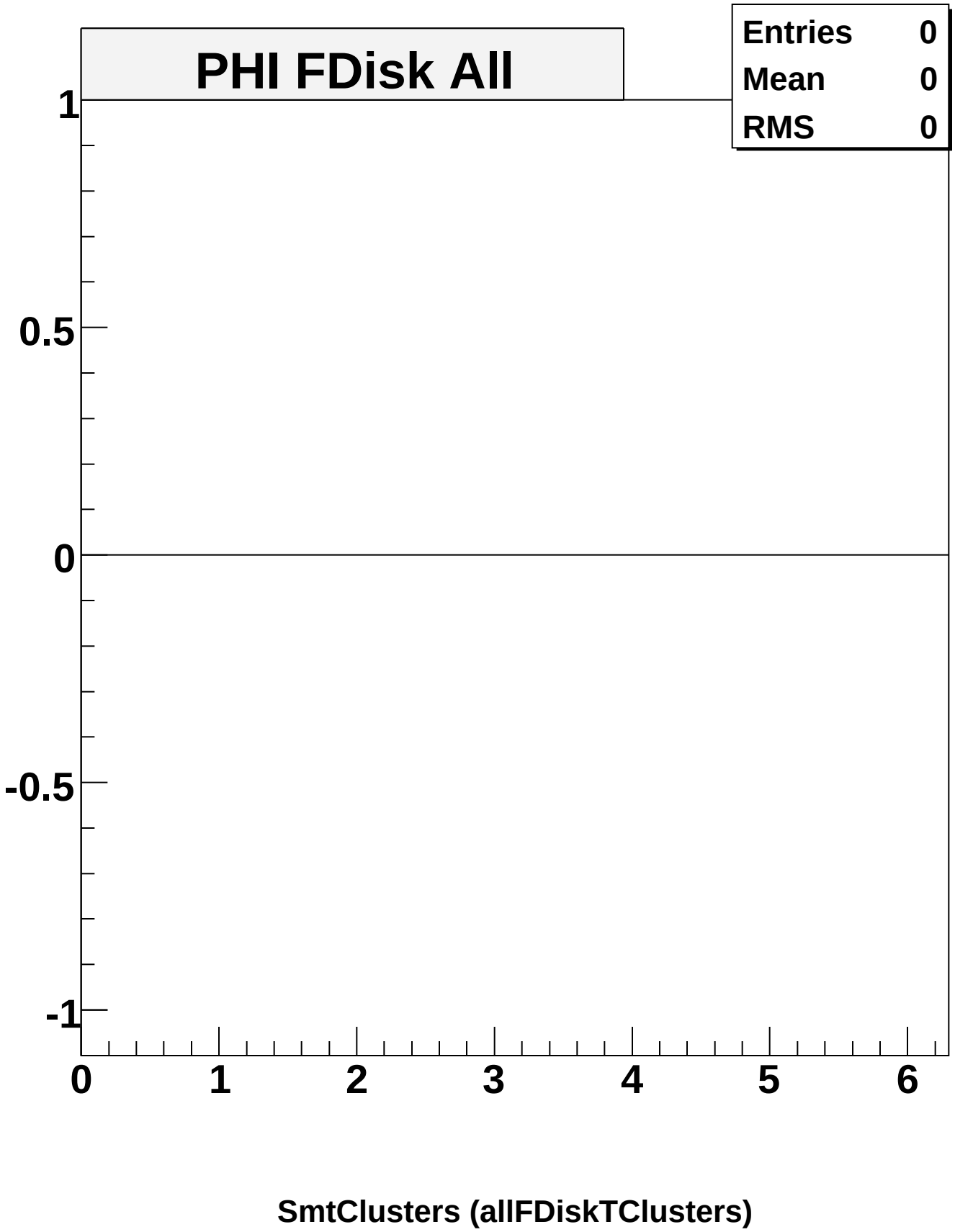
SmtClusters (FDiskClusters)

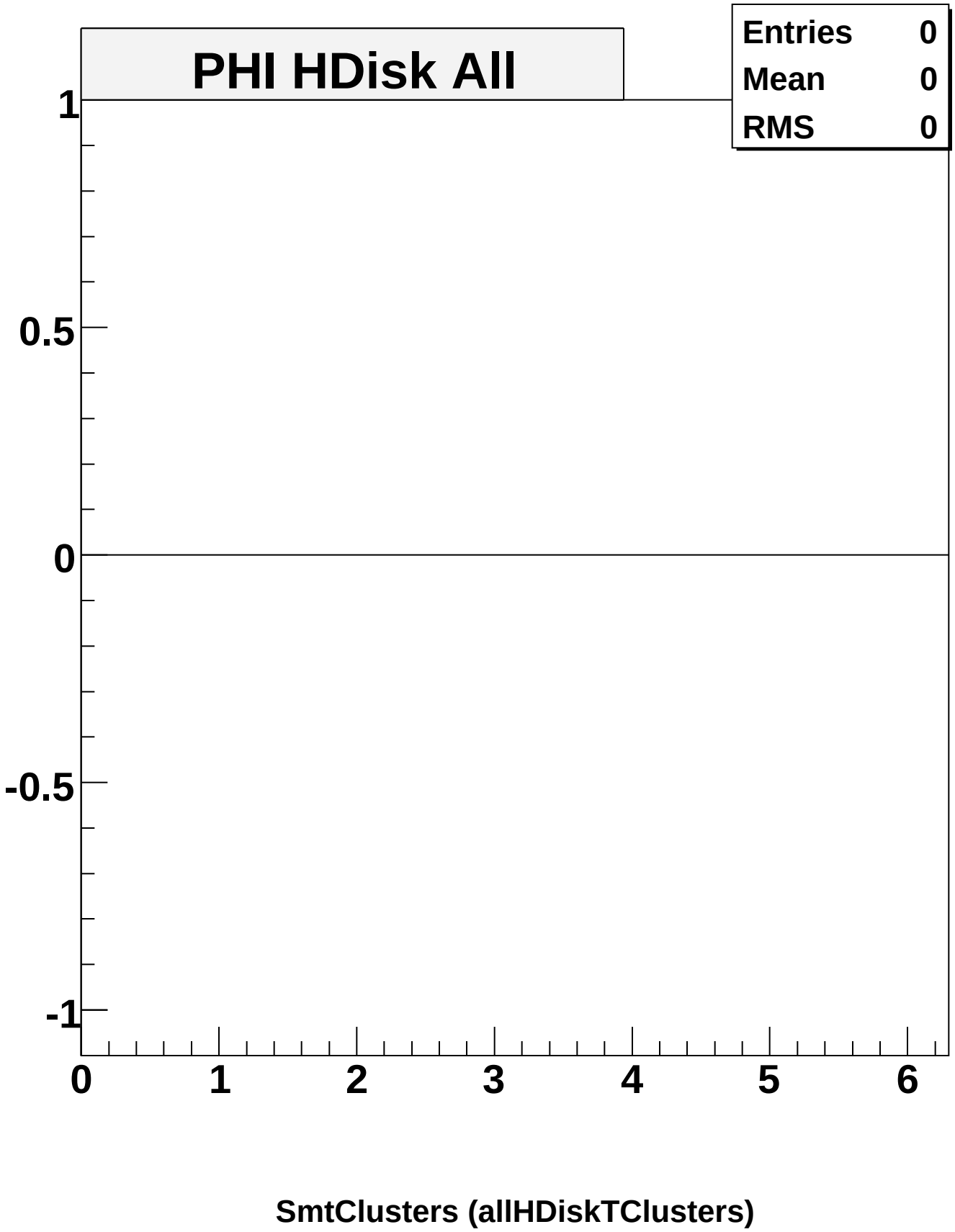


SmtClusters (HDiskClusters)



SmtClusters (allBarTClusters)


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


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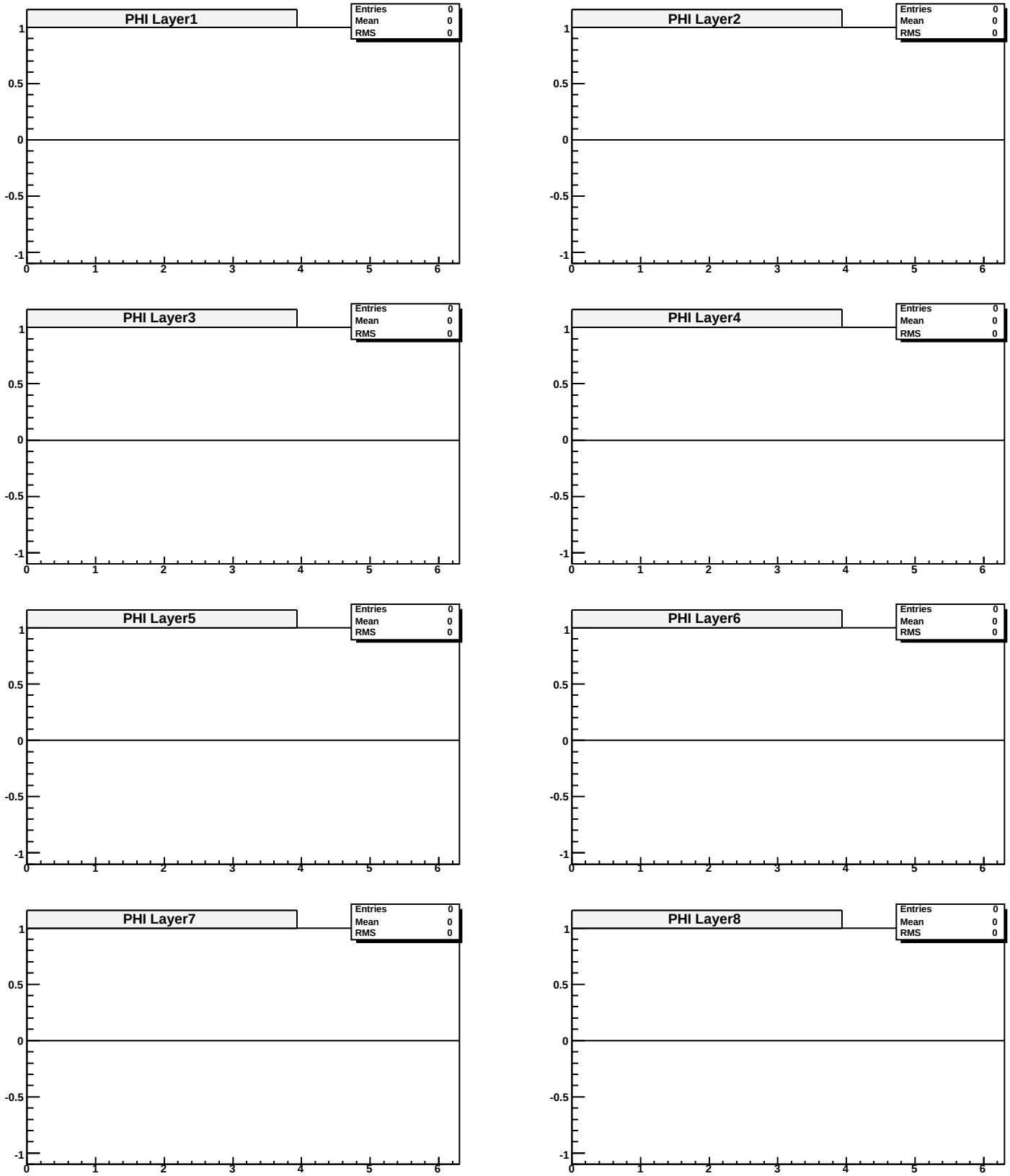
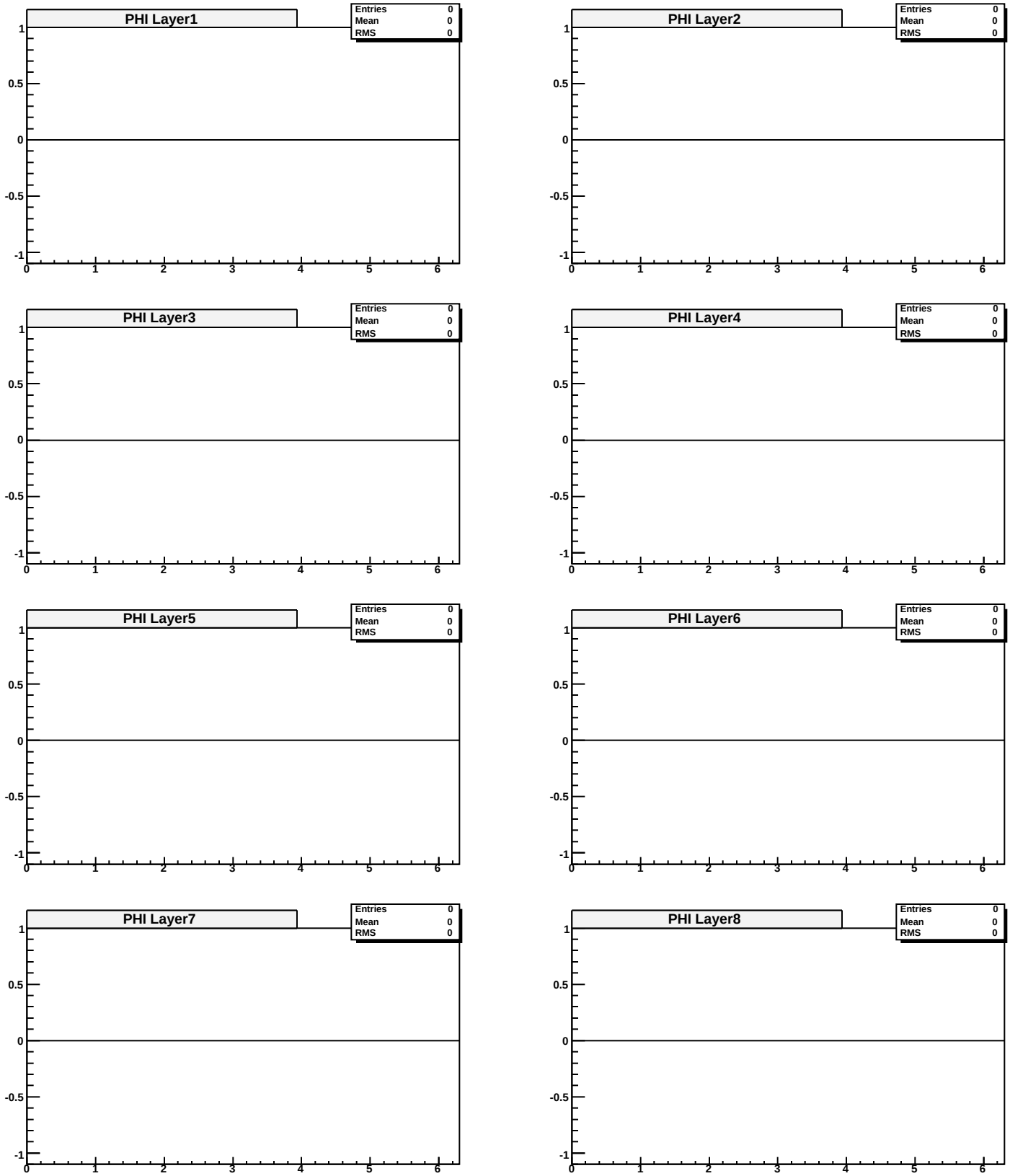
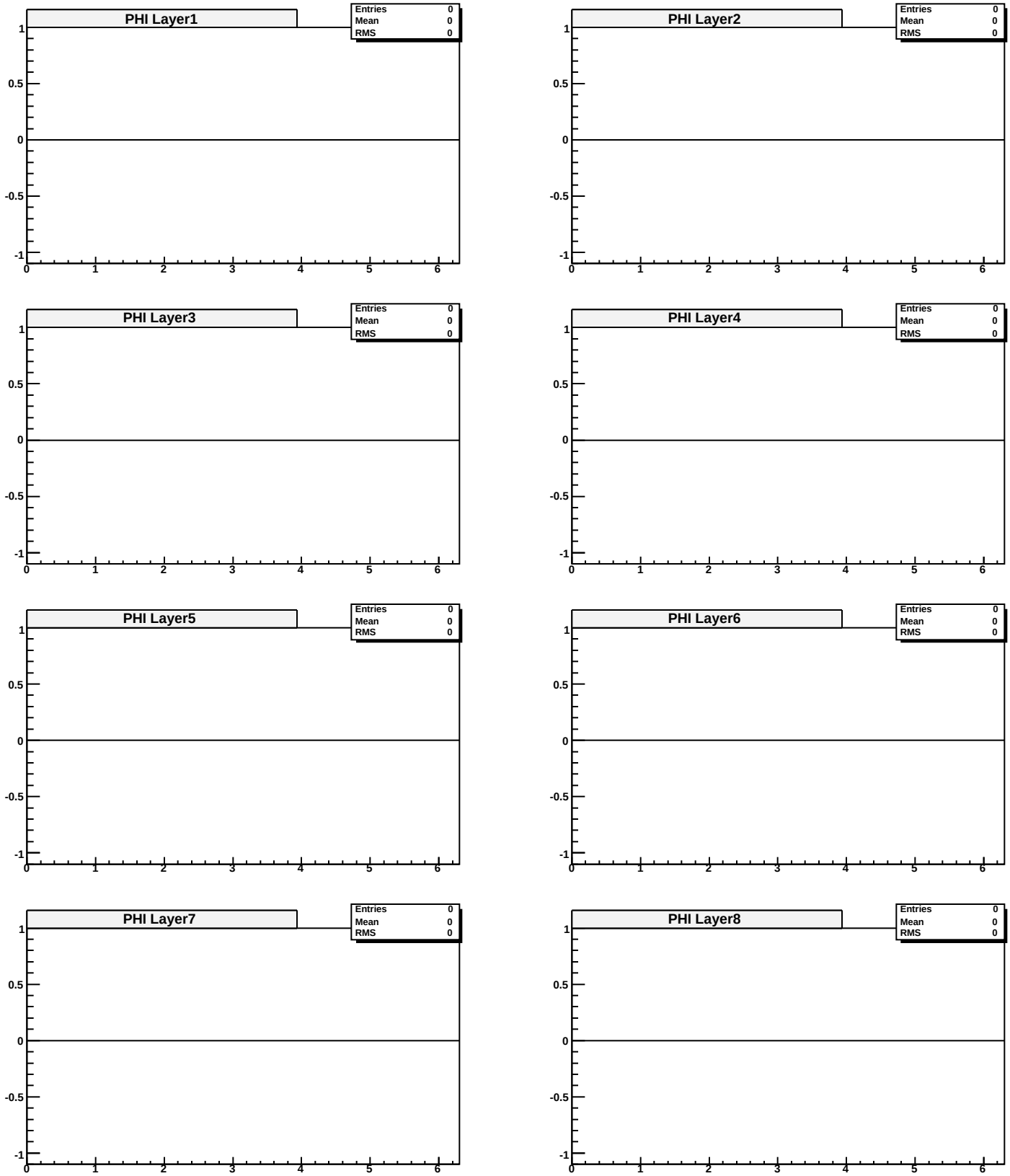
-1
0
1
2
3
4
5
6
SmtClusters (allHDiskTClusters)



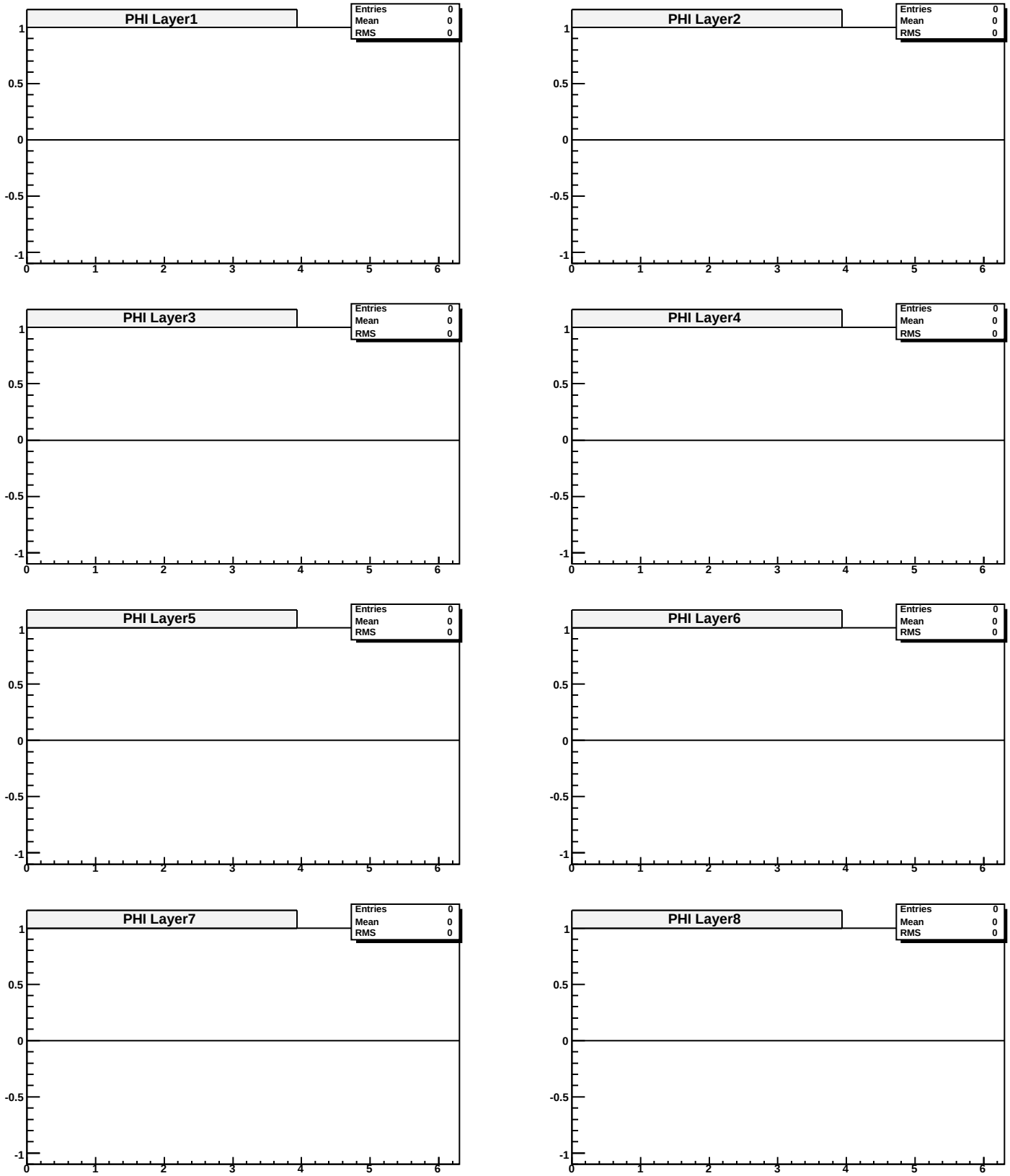
SmtClusters (TClustrBar1)



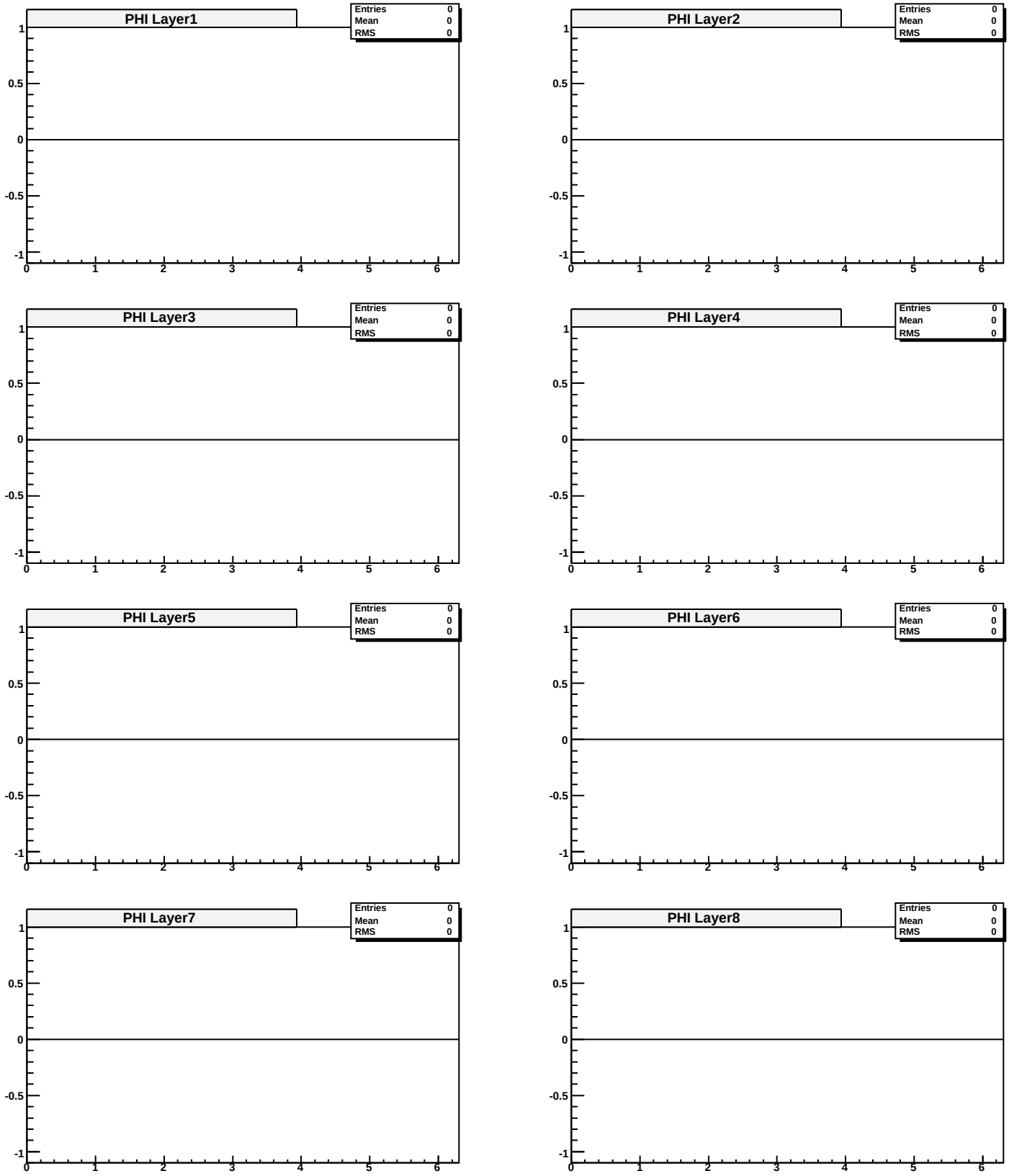
SmtClusters (TClustrBar2)



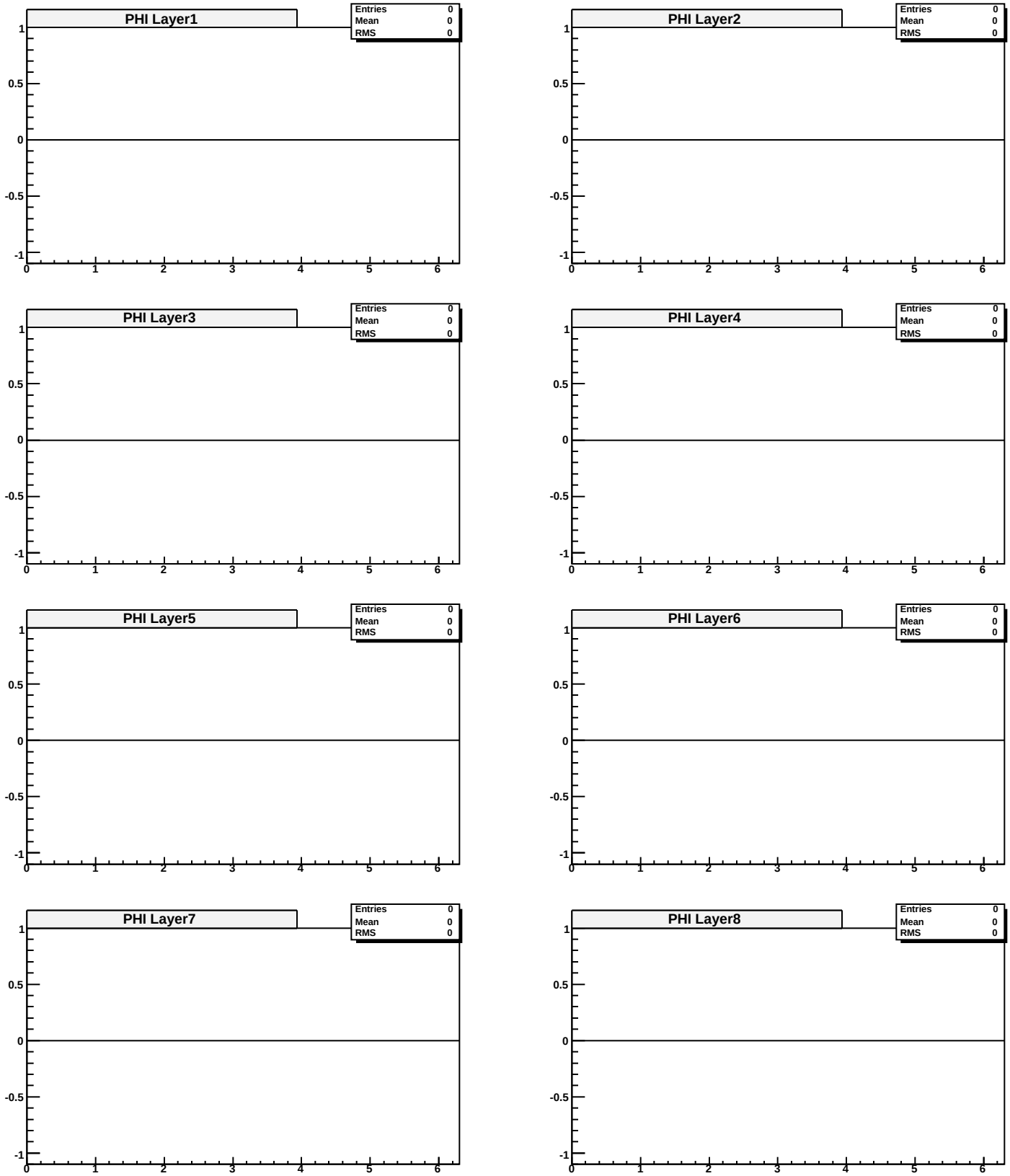
SmtClusters (TClustrBar3)



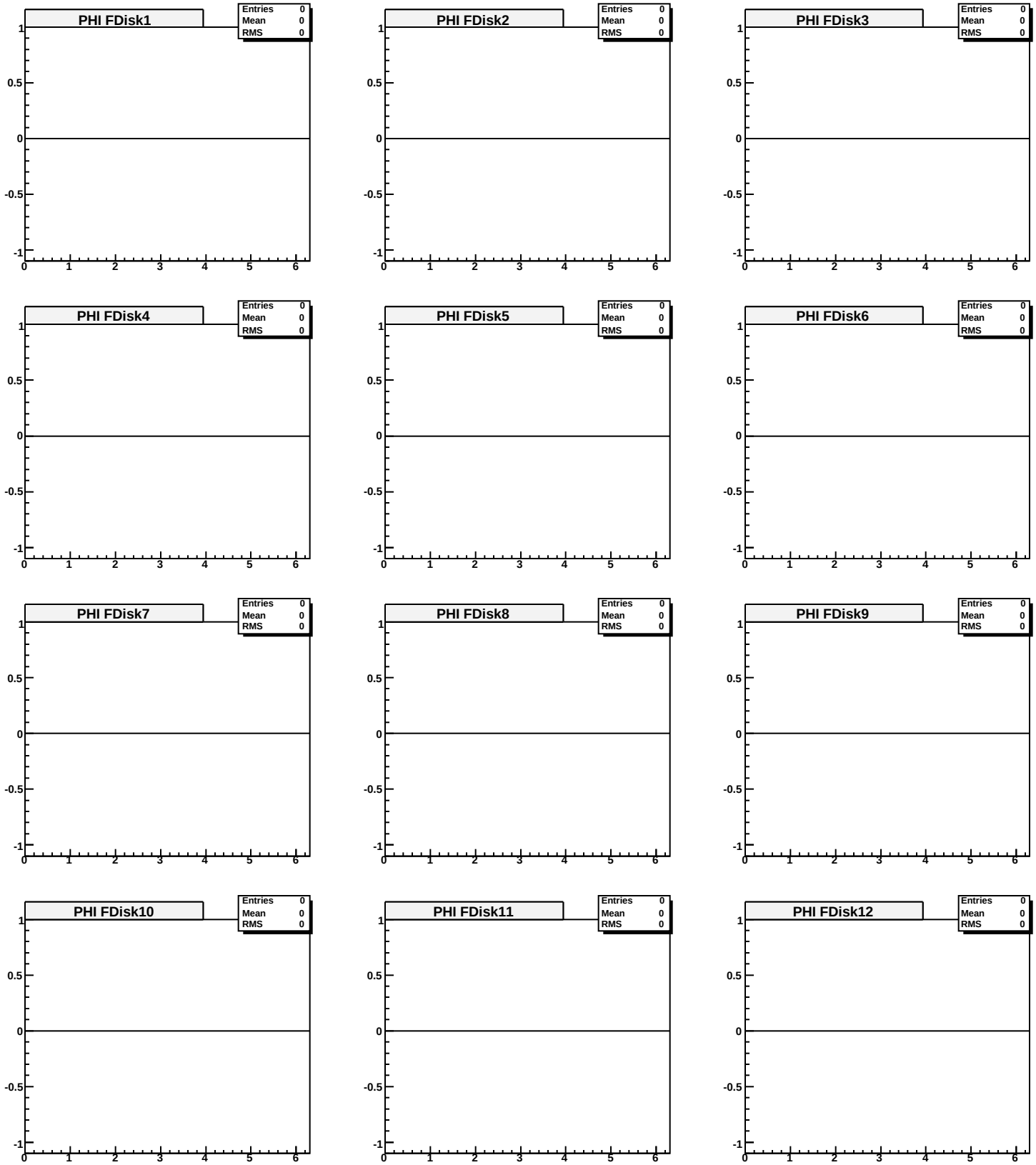
SmtClusters (TClustrBar4)



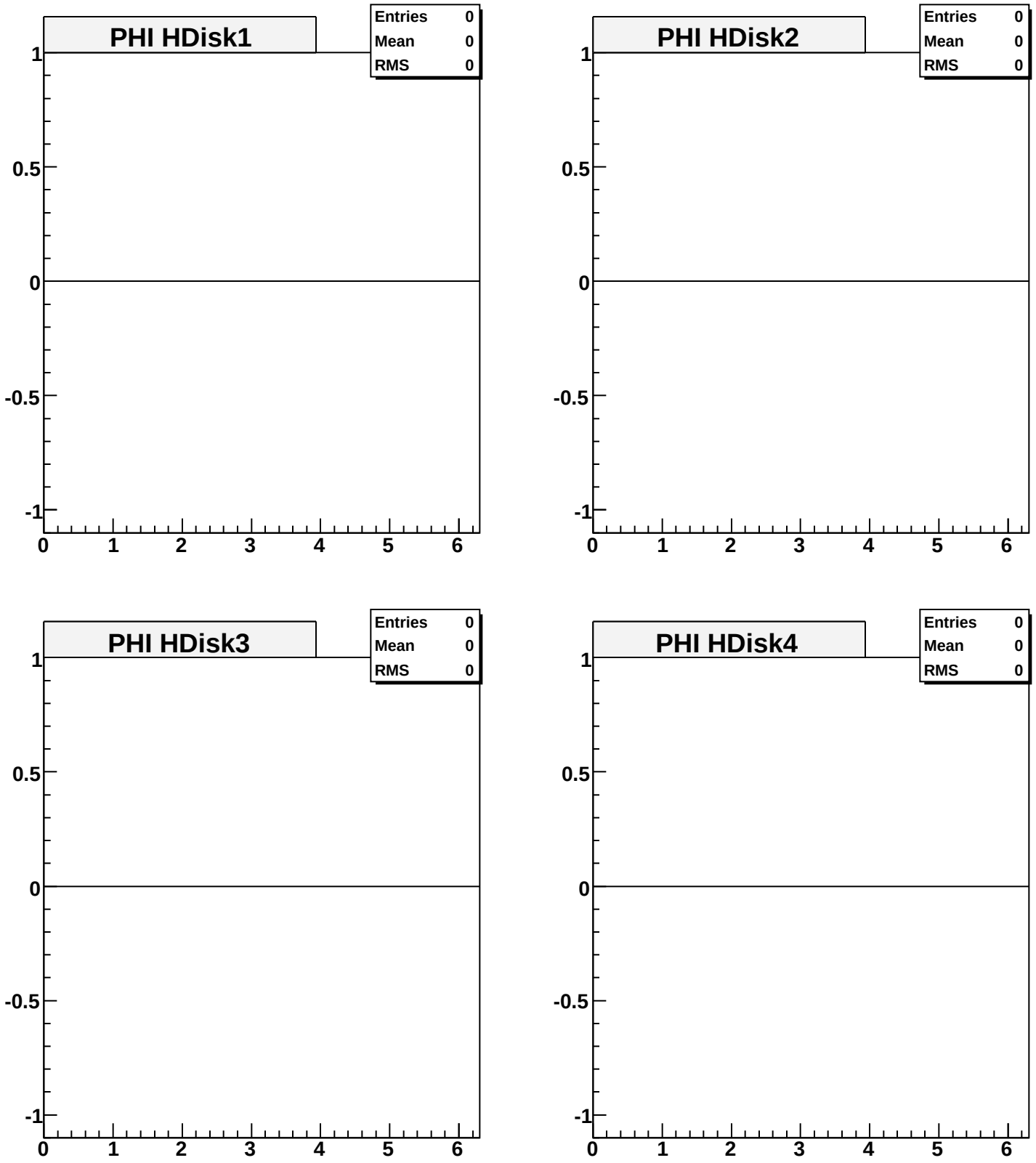
SmtClusters (TClustrBar5)



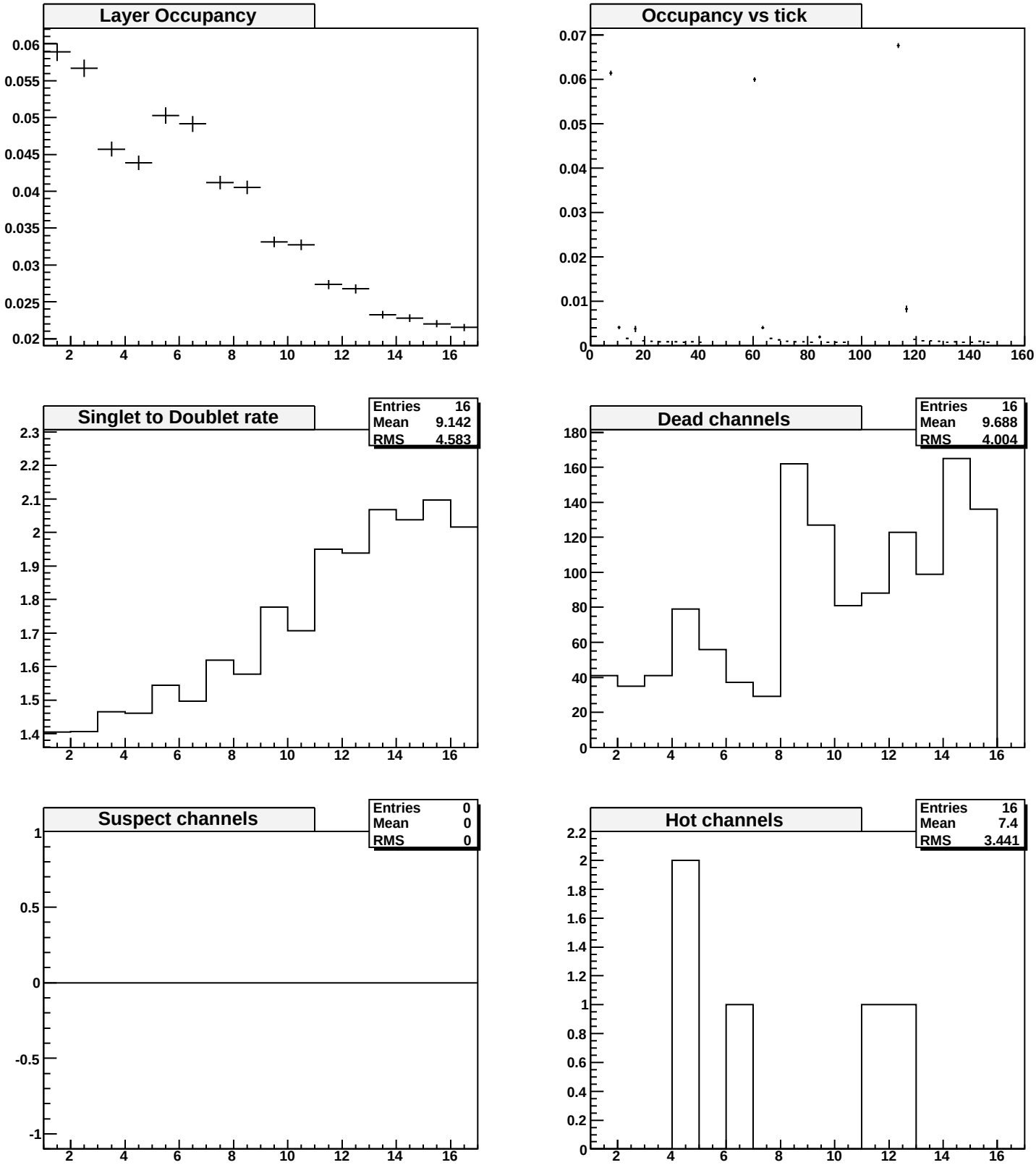
SmtClusters (TClustrBar6)



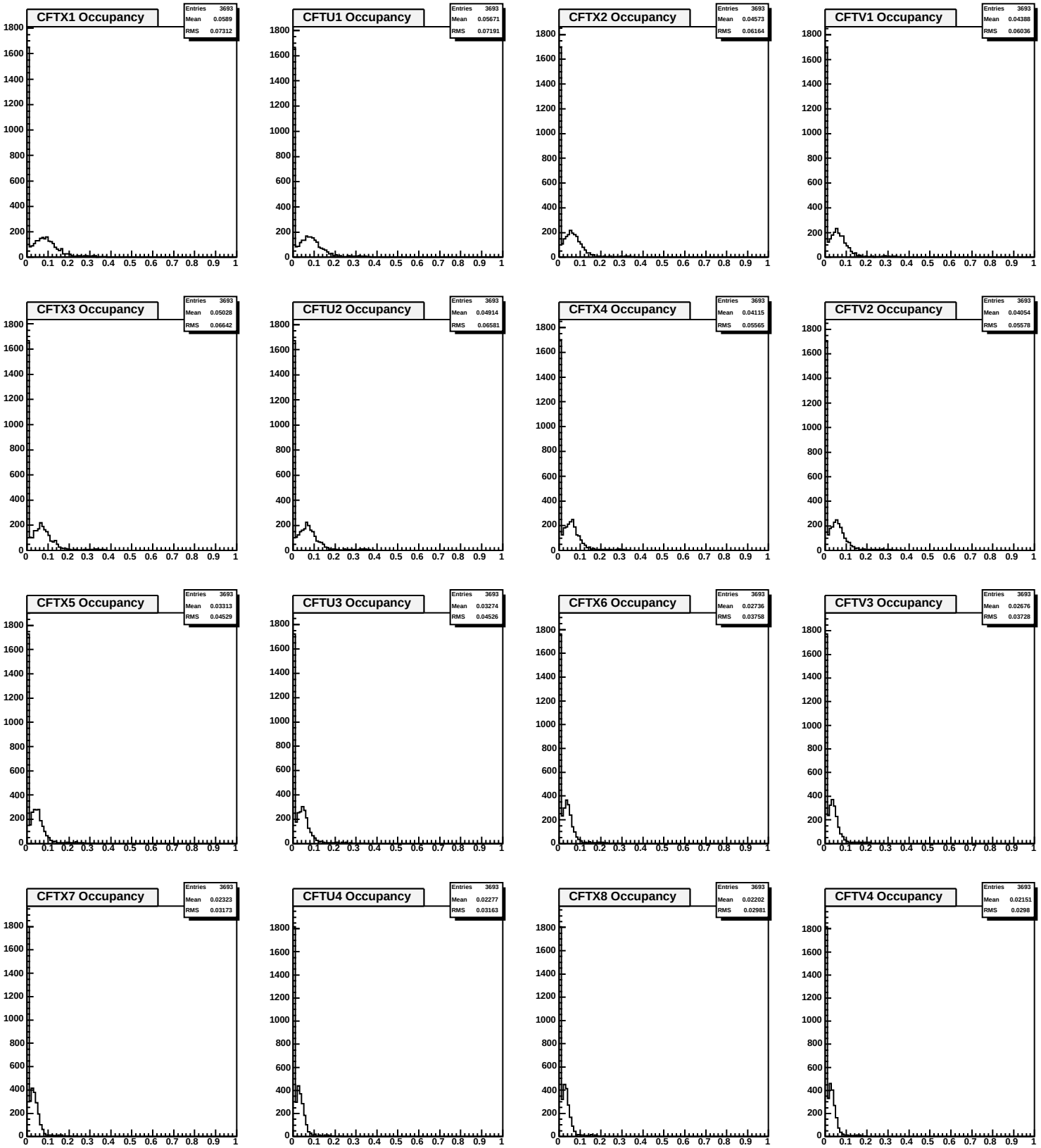
SmtClusters (FDiskTClusters)



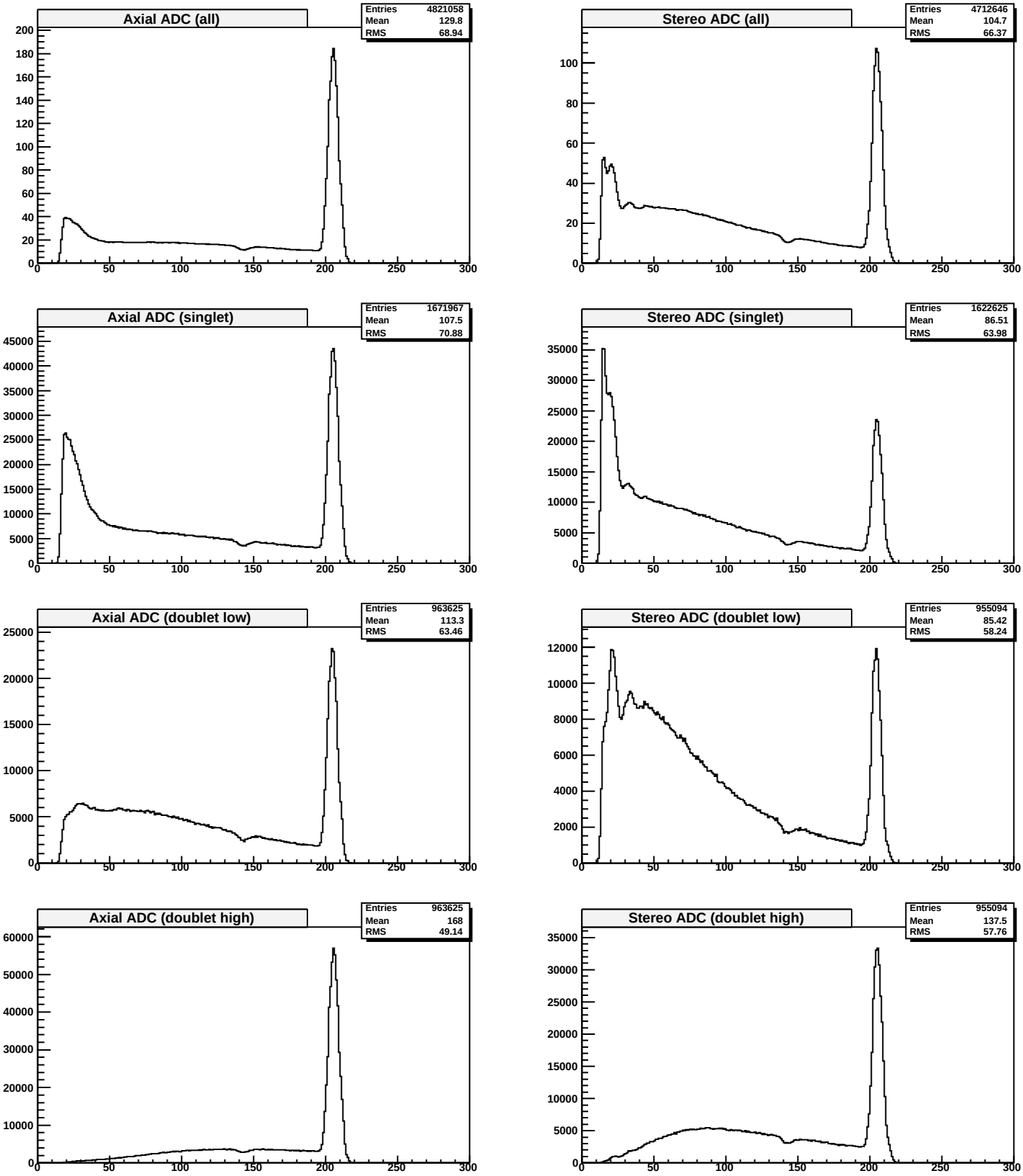
SmtClusters (HDiskTClusters)



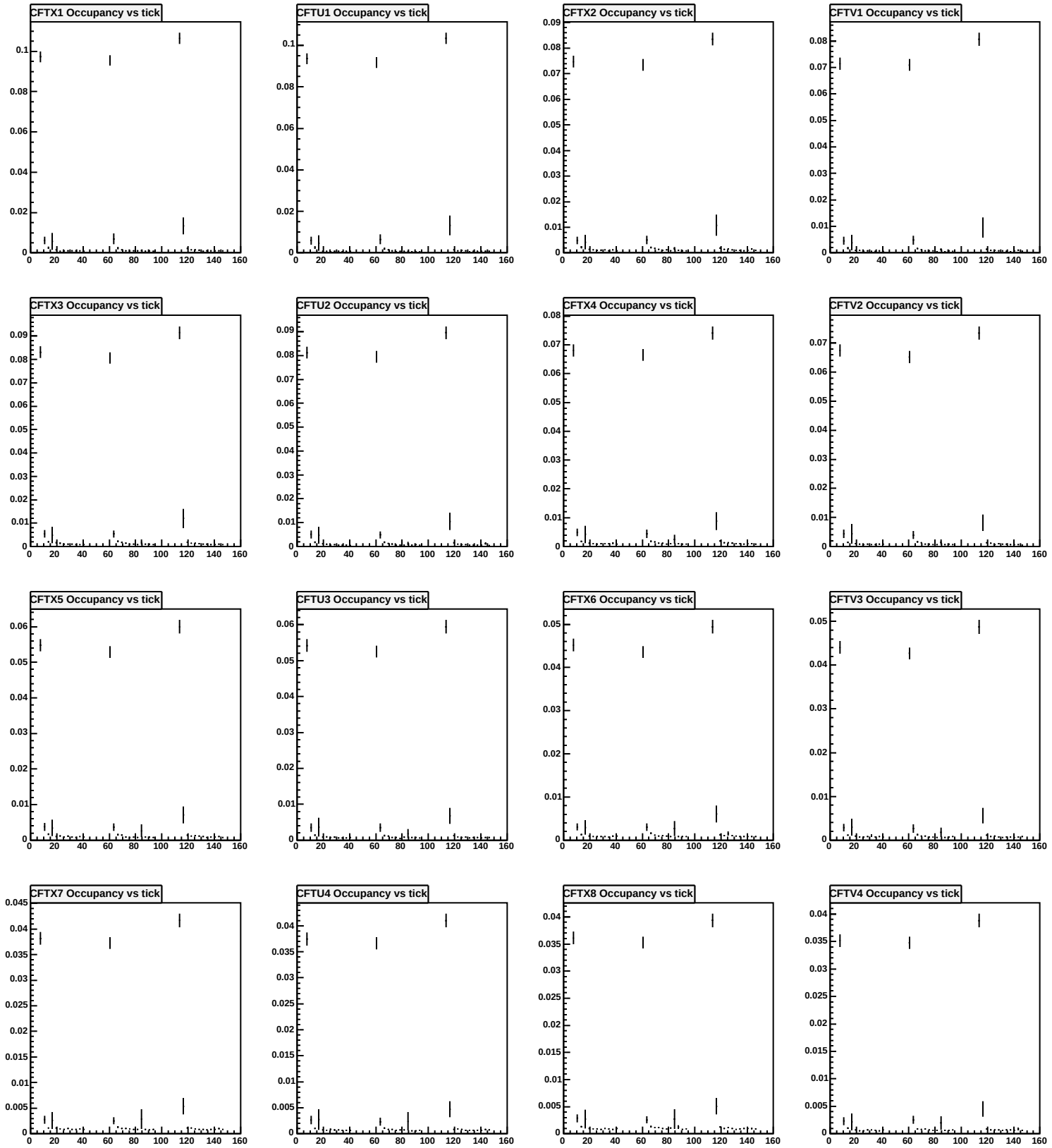
CFT Summary (All Clusters)



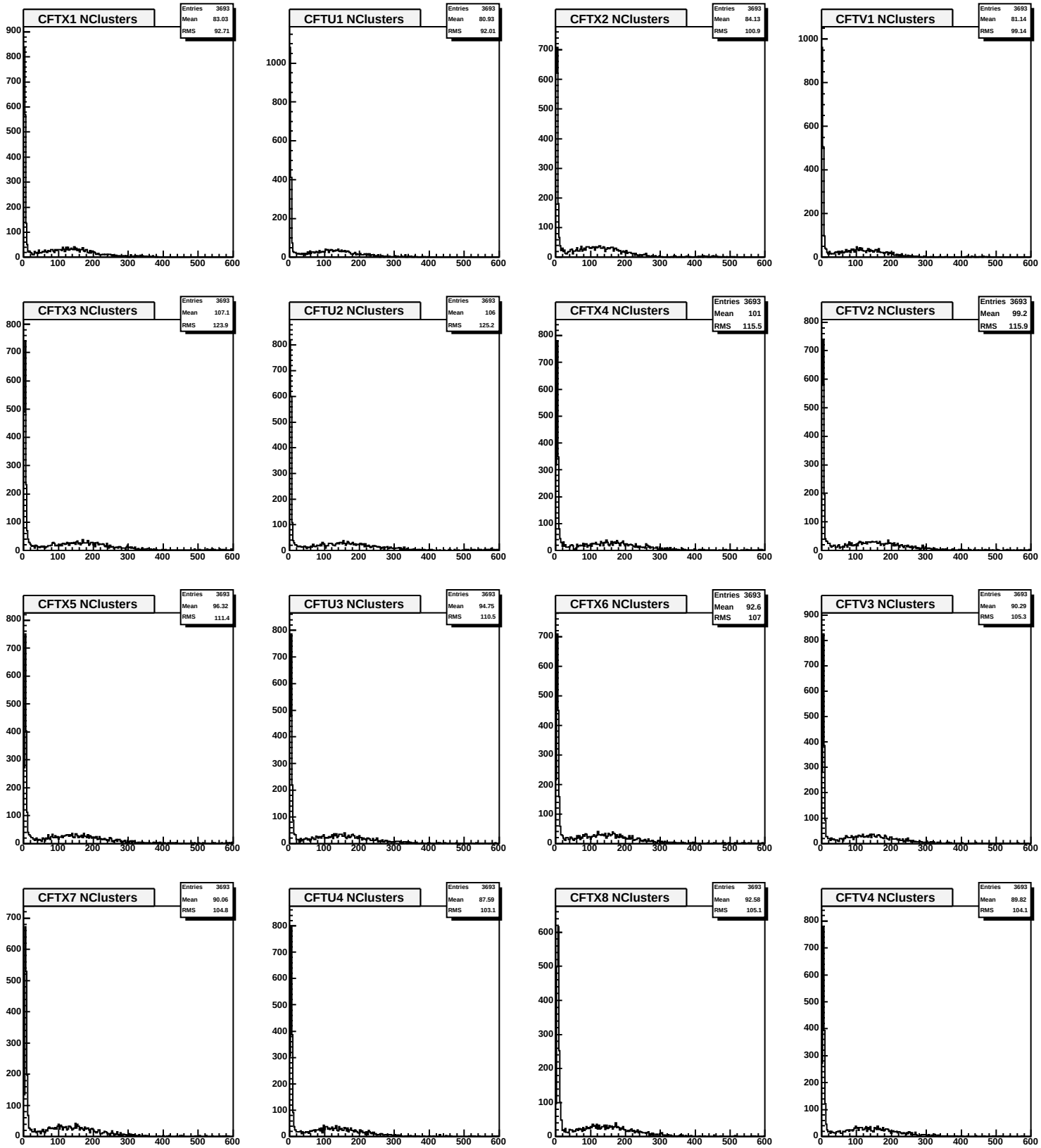
CFT Occupancy (All Clusters)



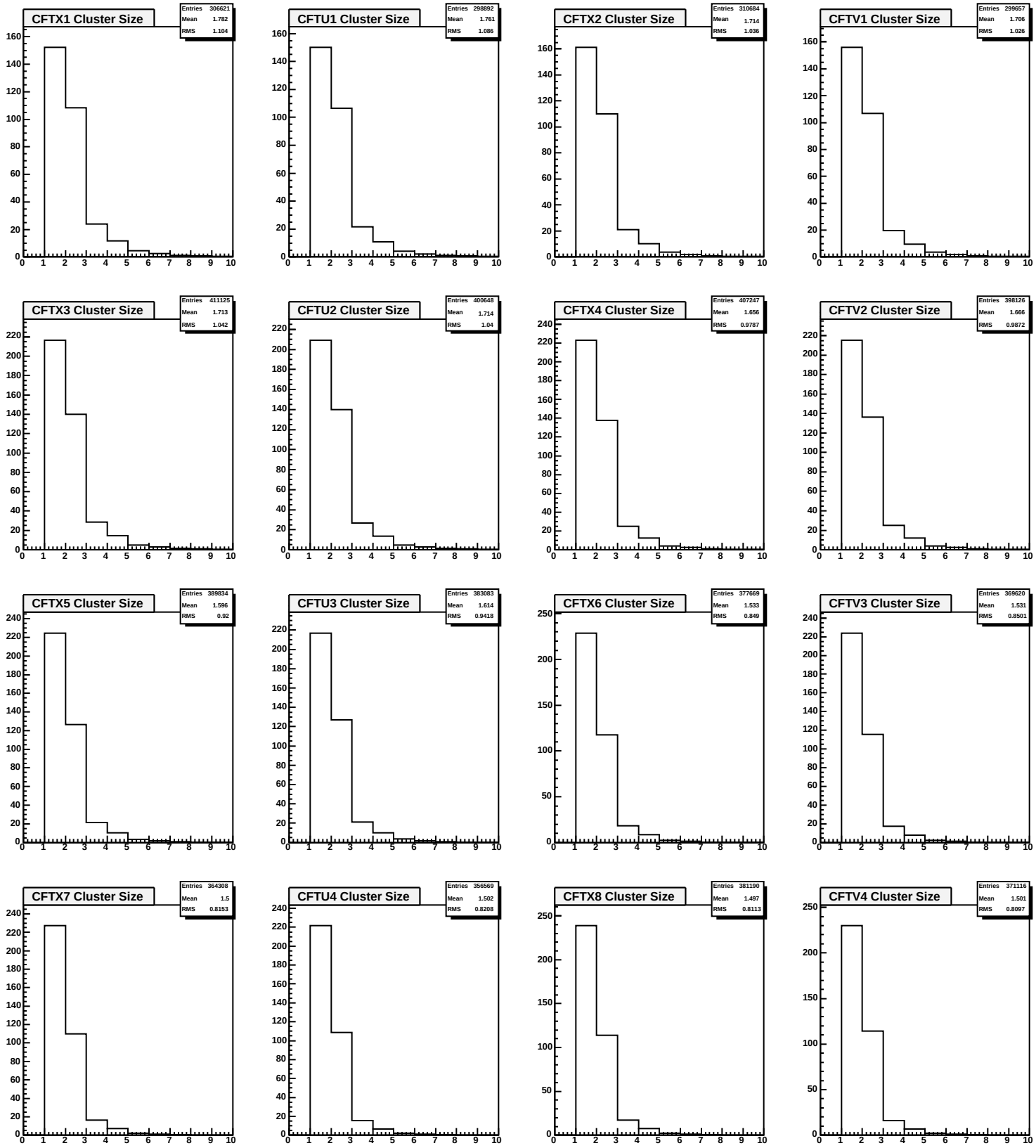
CFT ADC Summary (All Clusters)



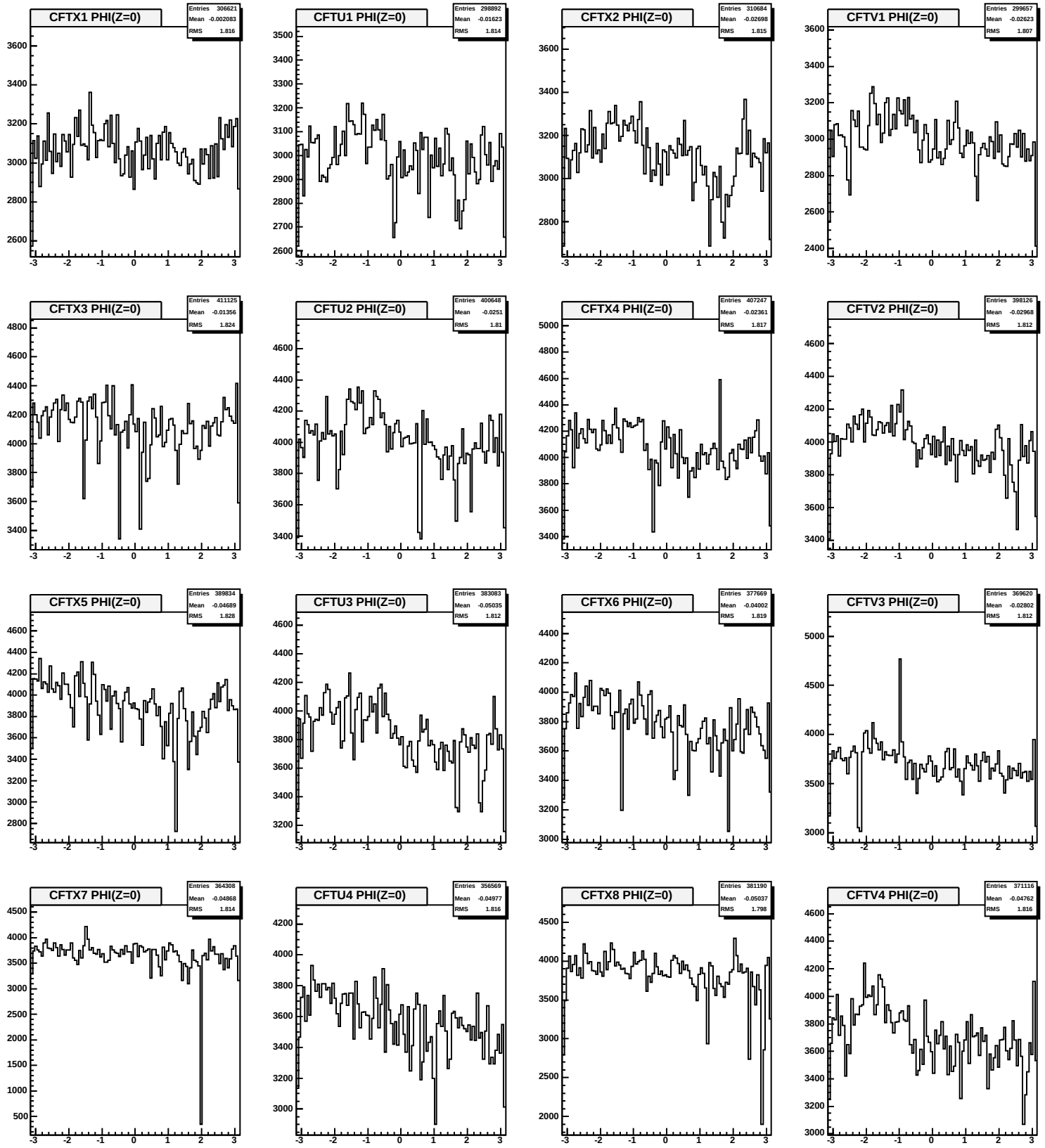
CFT Occupancy vs Tick (All Clusters)



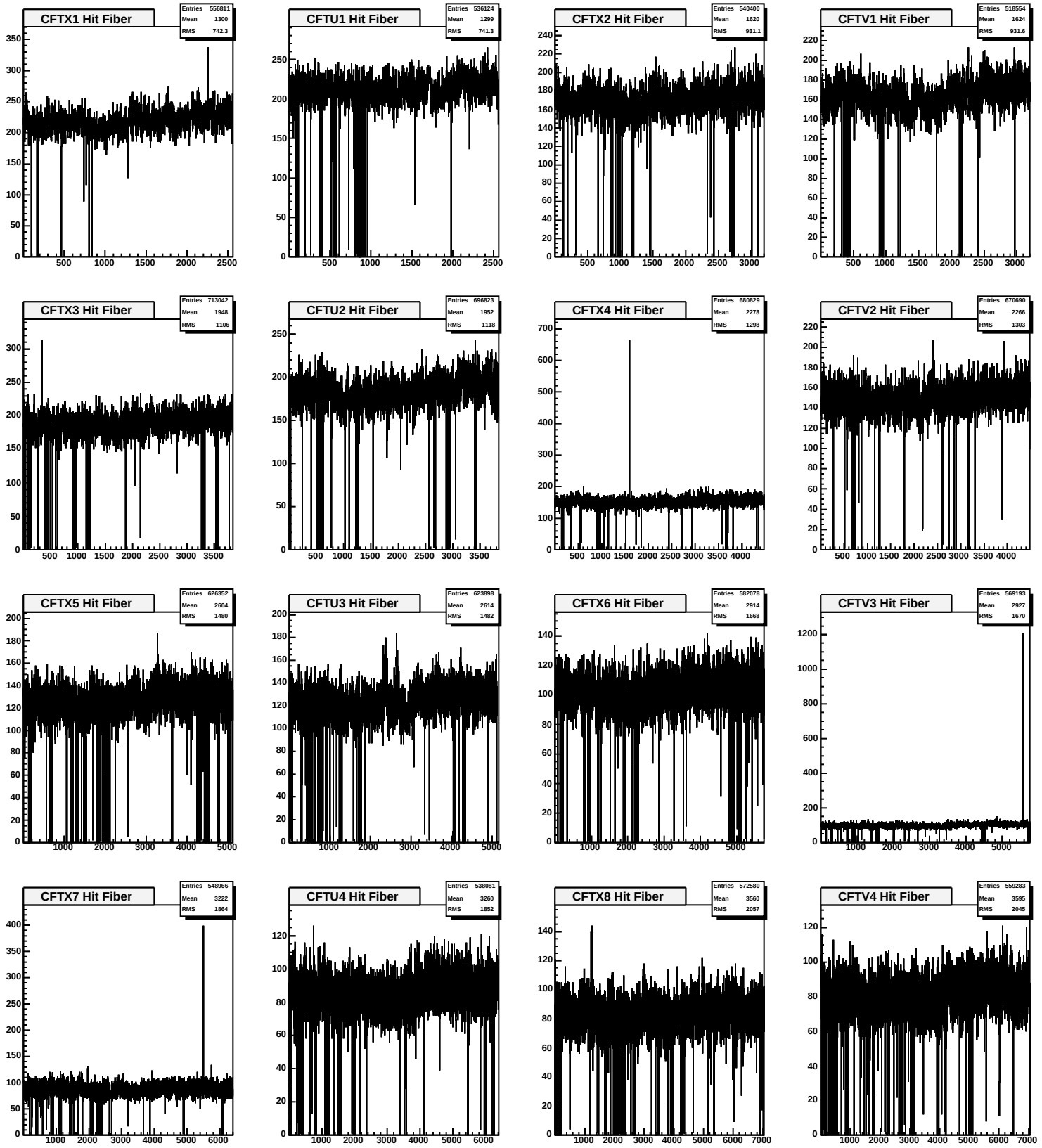
CFT NClusters (All Clusters)



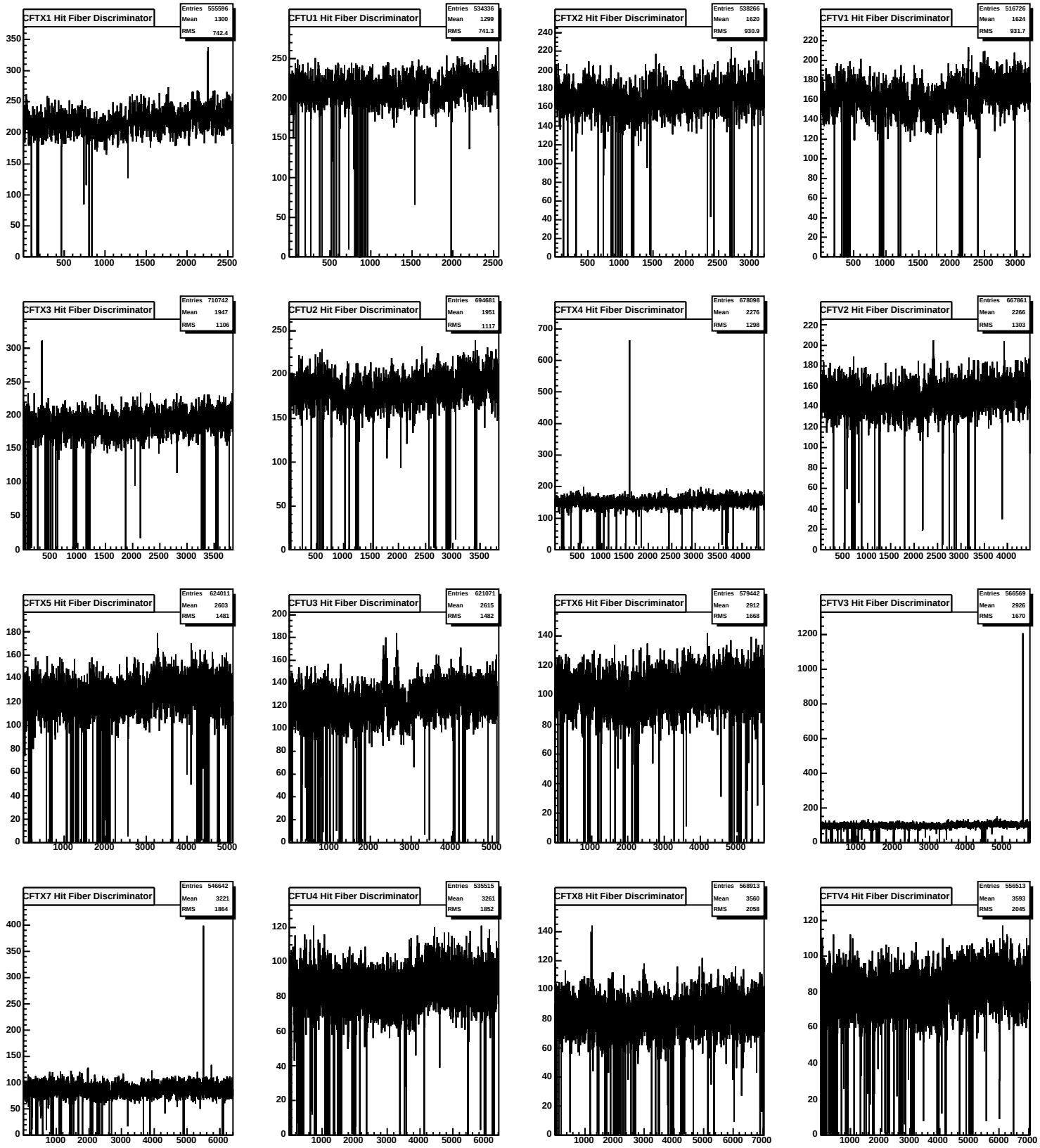
CFT Cluster Size (All Clusters)



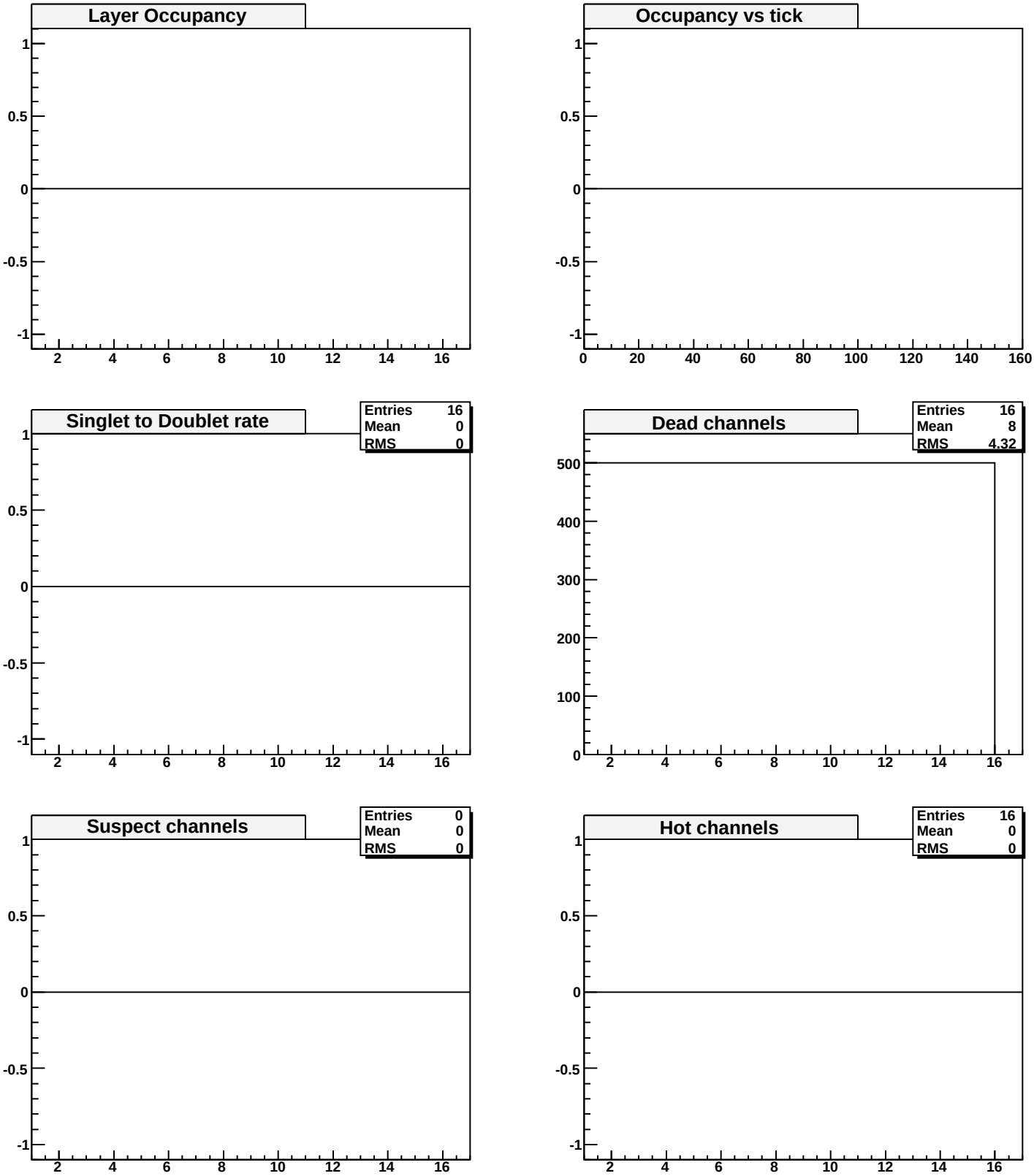
CFT PHI(Z=0) (All Clusters)



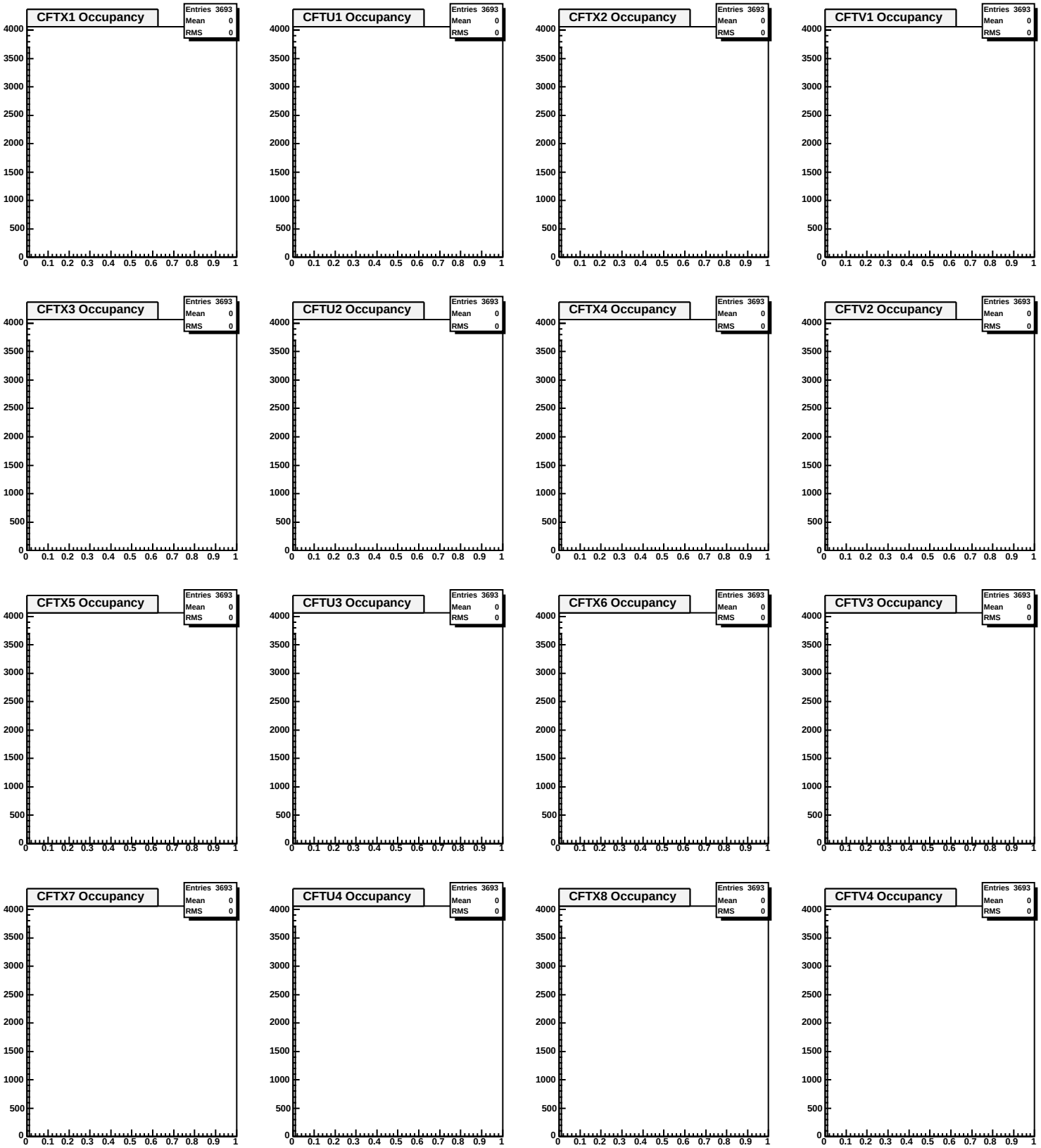
CFT Hit Fiber (All Clusters)



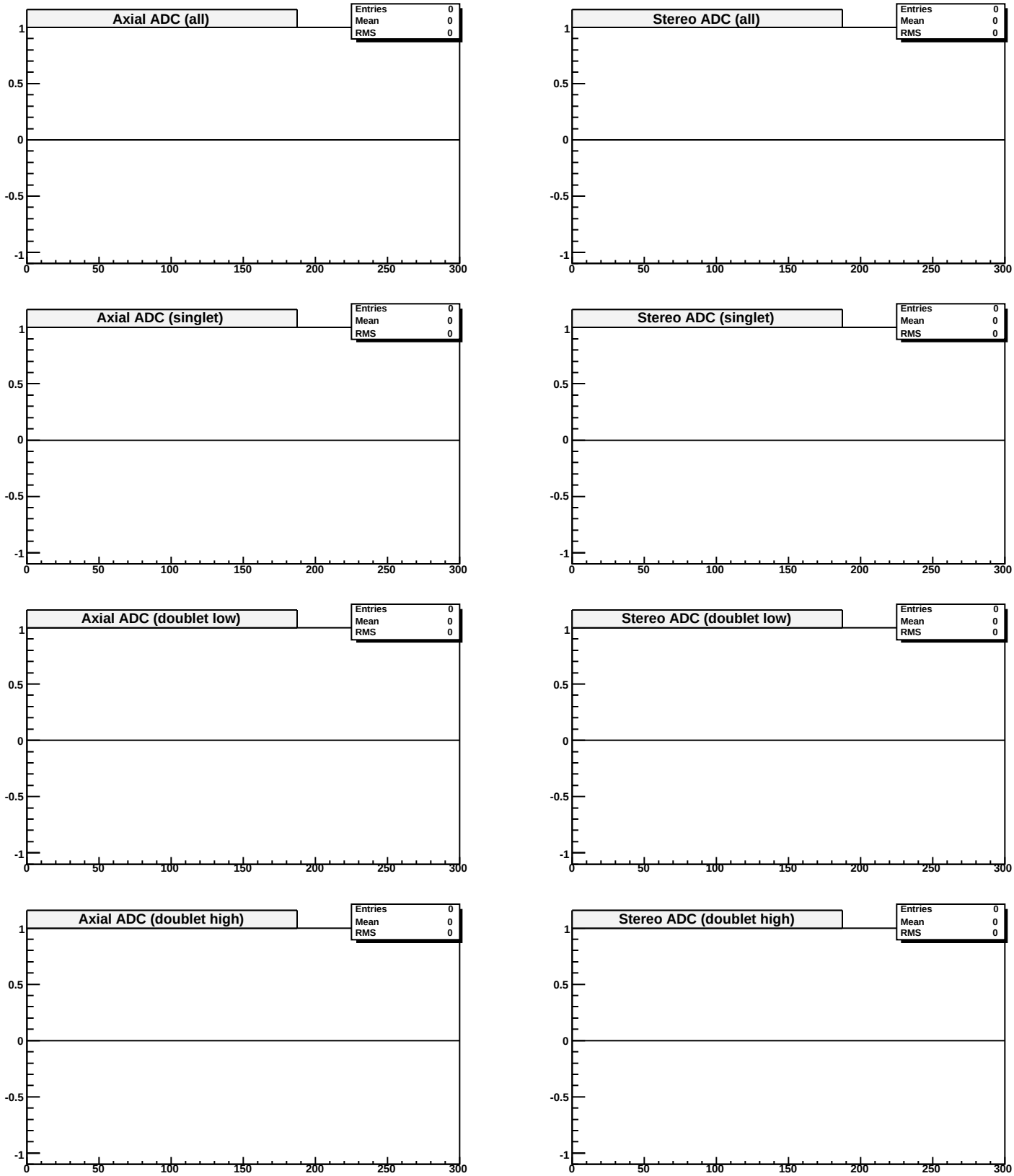
CFT Hit Fiber Discriminator (All Clusters)



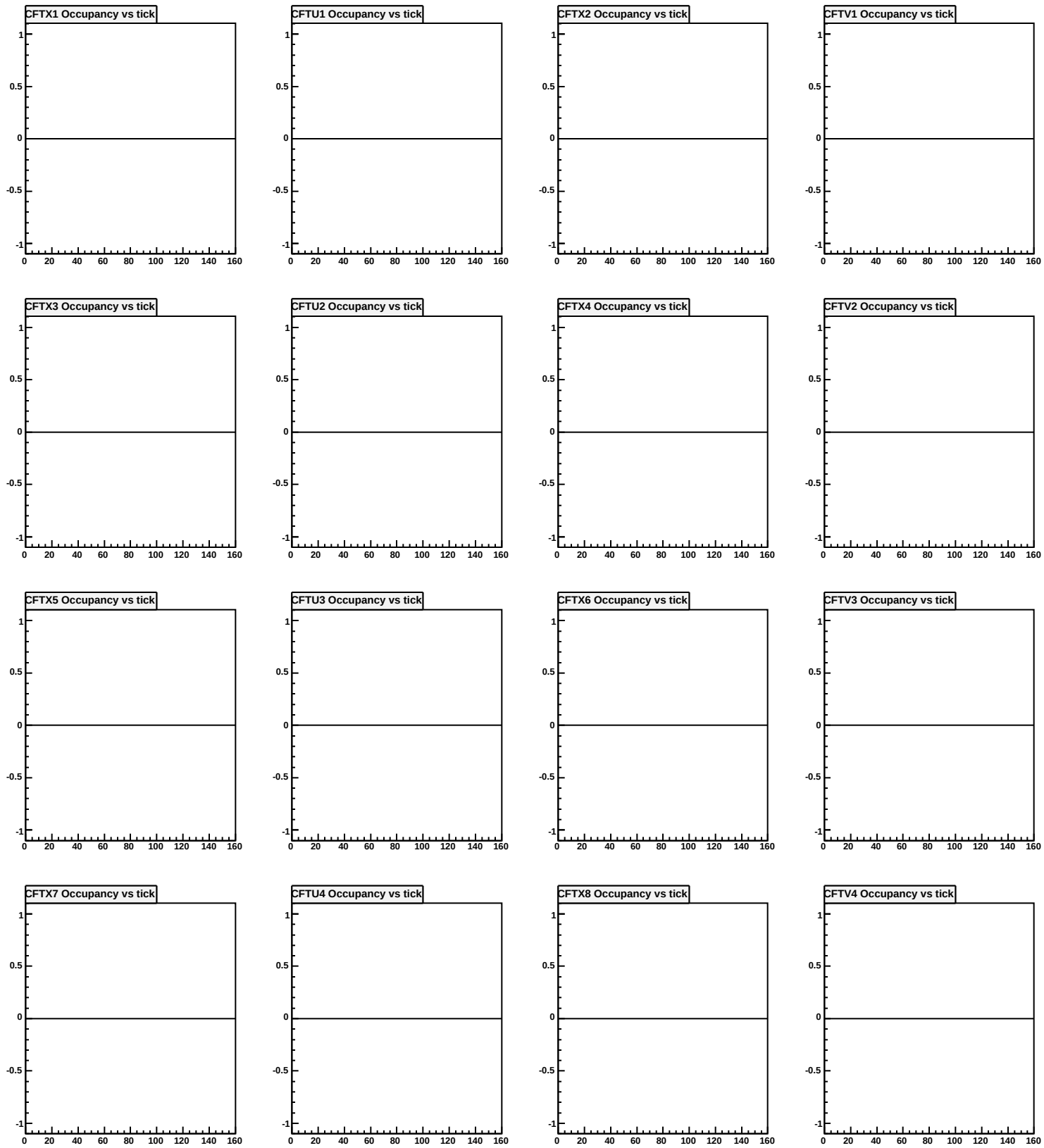
CFT Summary (Clusters on tracks)



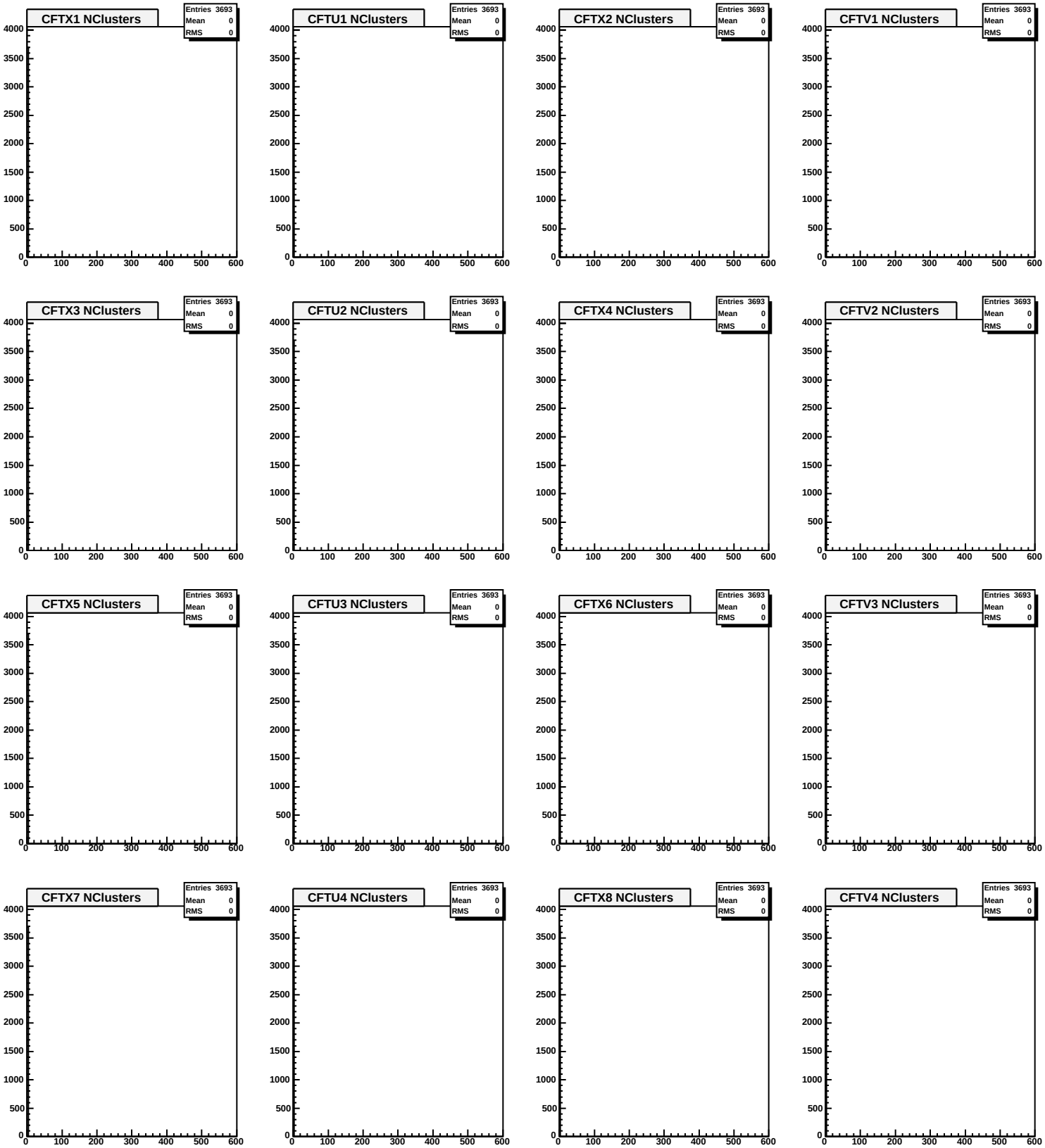
CFT Occupancy (Clusters on tracks)



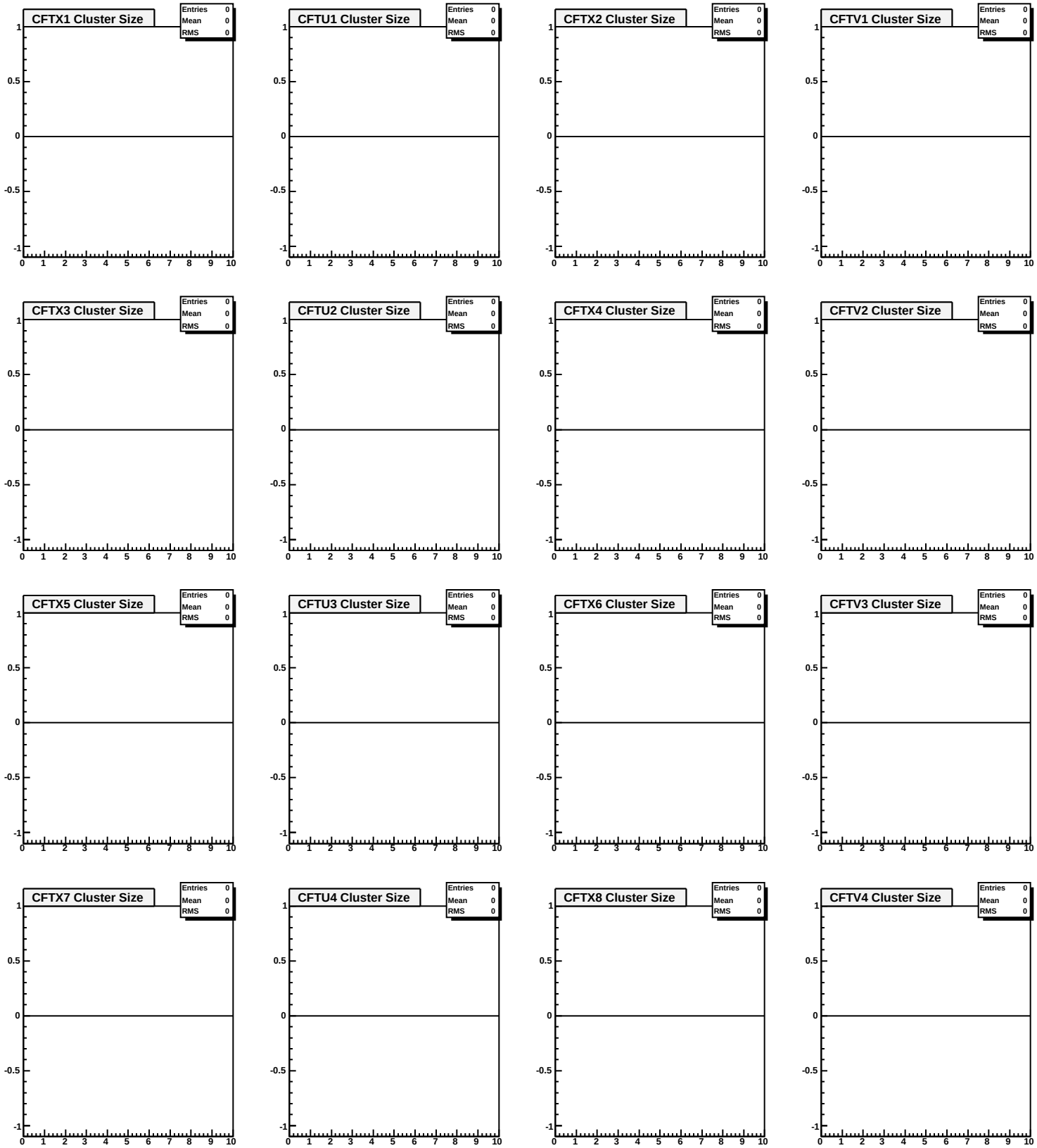
CFT ADC Summary (Clusters on tracks)



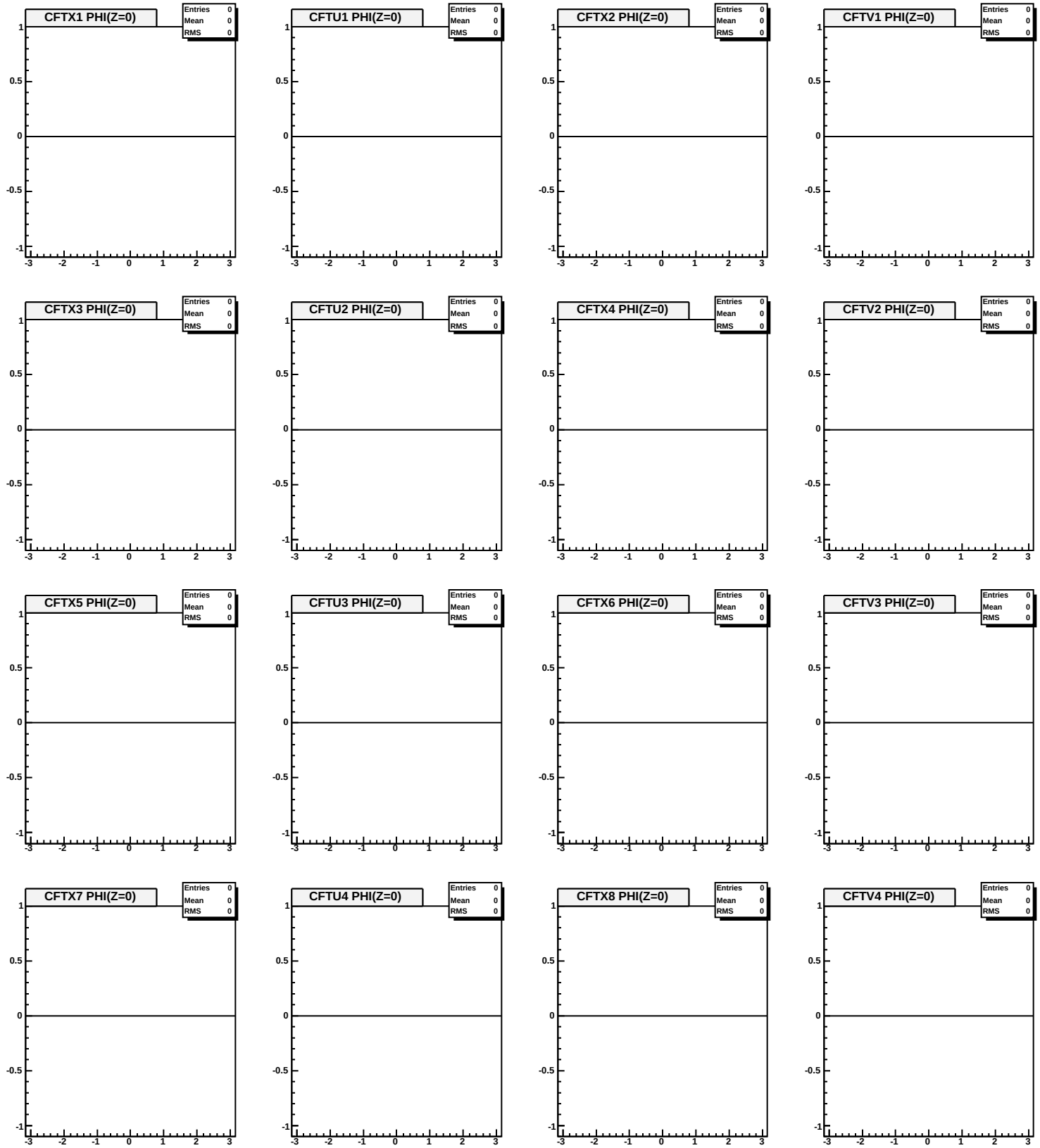
CFT Occupancy vs Tick (Clusters on tracks)



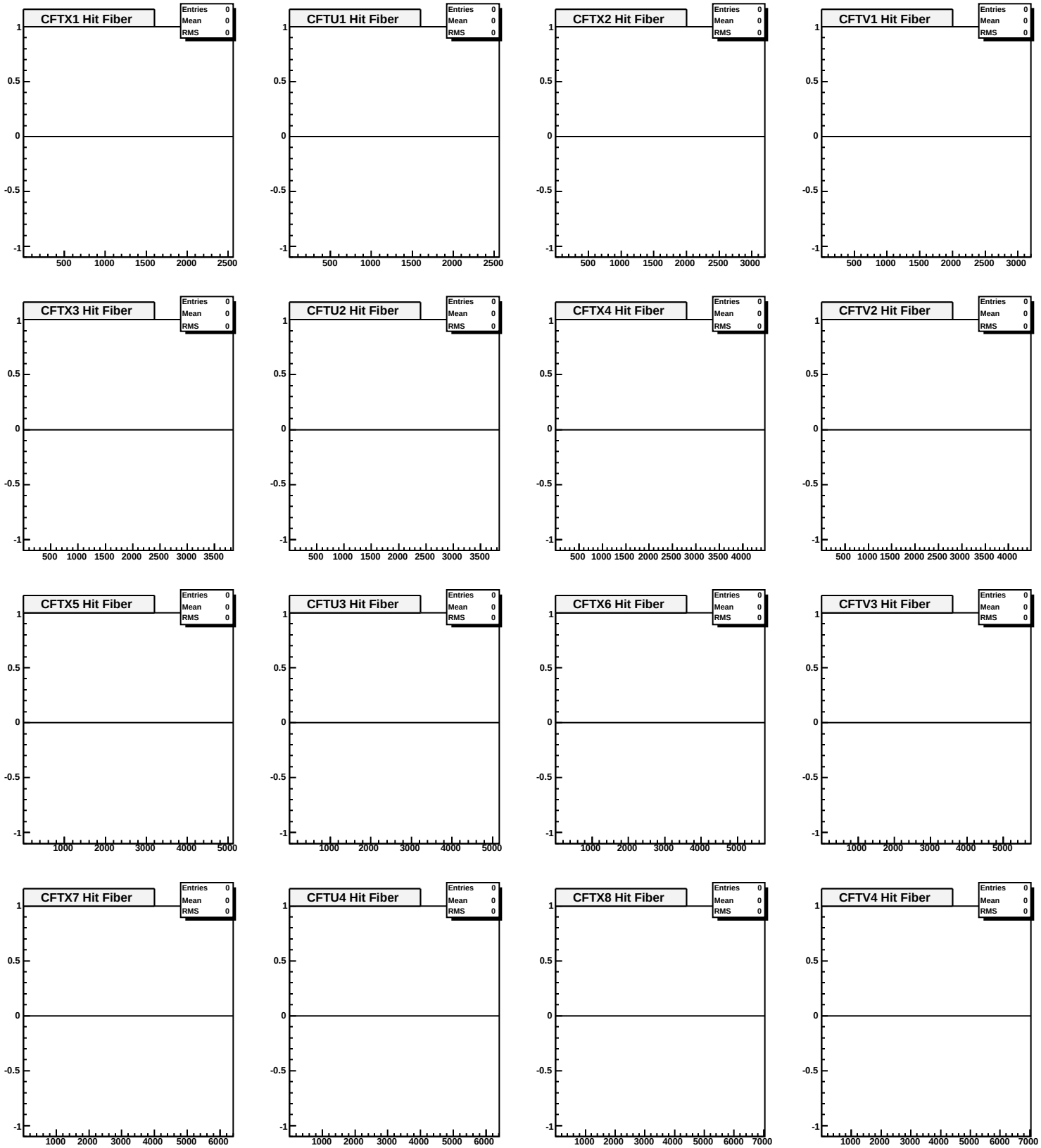
CFT NClusters (Clusters on tracks)



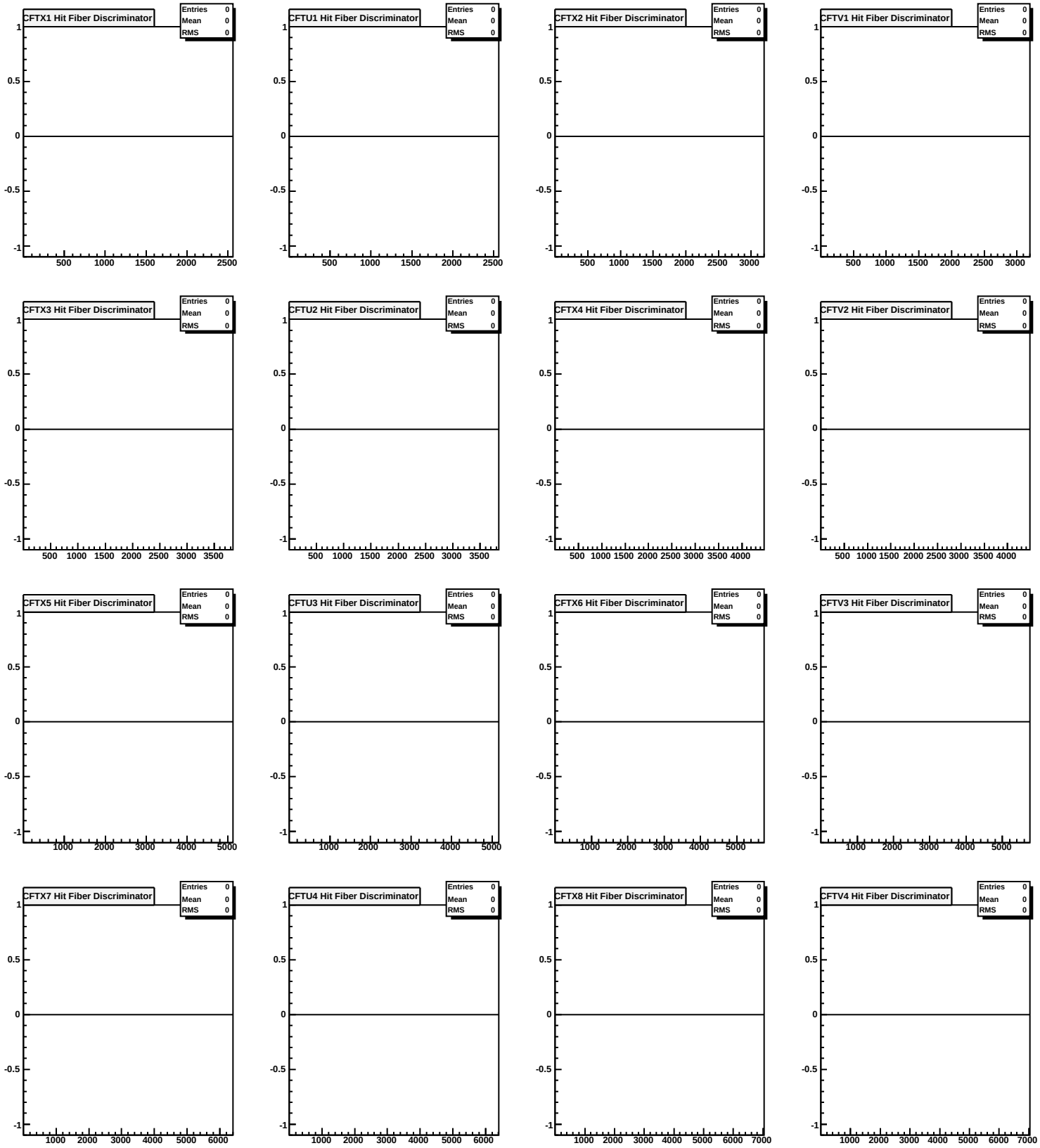
CFT Cluster Size (Clusters on tracks)



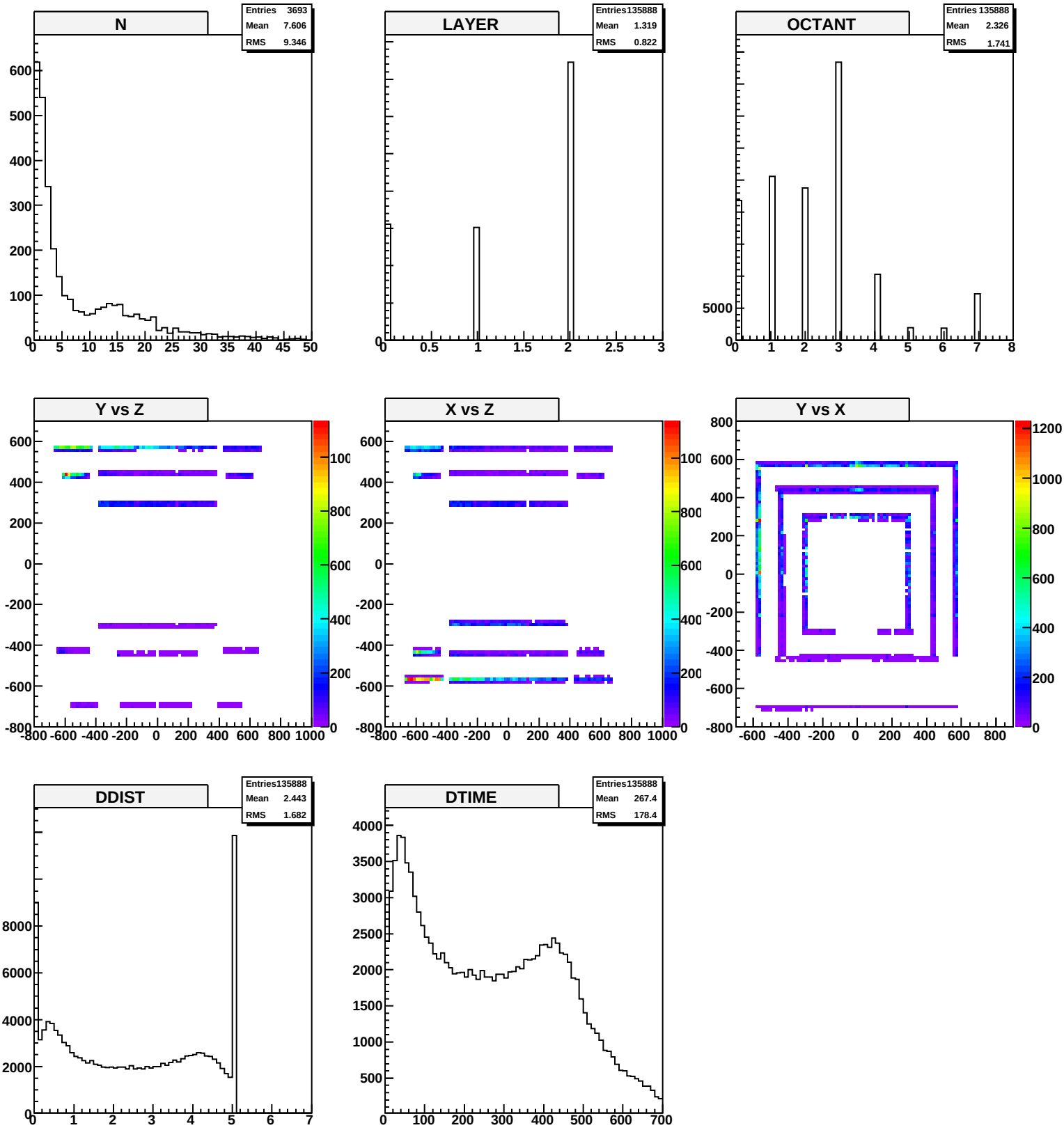
CFT PHI(Z=0) (Clusters on tracks)



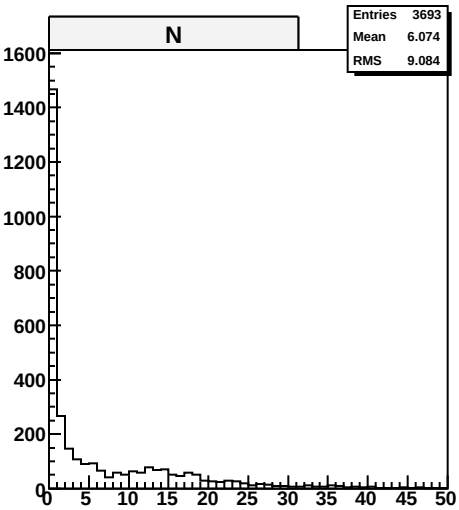
CFT Hit Fiber (Clusters on tracks)

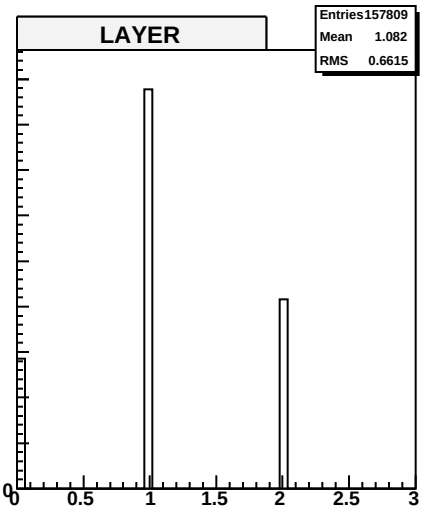


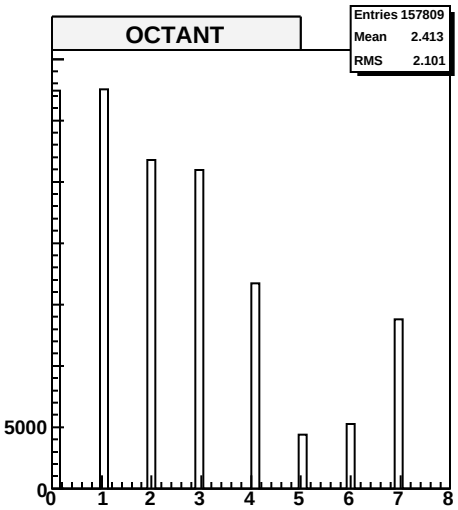
CFT Hit Fiber Discriminator (Clusters on tracks)

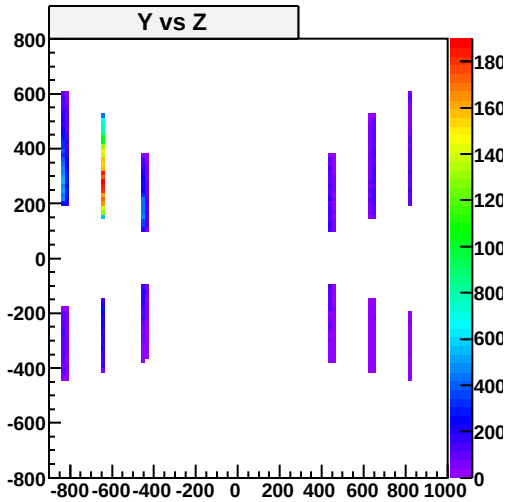

N
Entries 3693
Mean 7.606
RMS 9.346
LAYER
Entries 135888
Mean 1.319
RMS 0.822
OCTANT
Entries 135888
Mean 2.326
RMS 1.741
Y vs Z
X vs Z
Y vs X
DDIST
Entries 135888
Mean 2.443
RMS 1.682
DTIME
Entries 135888
Mean 267.4
RMS 178.4

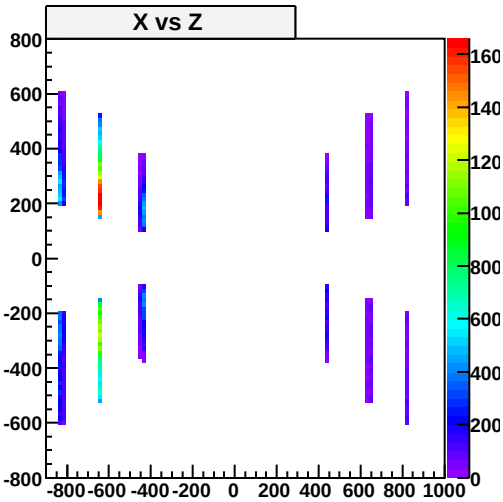
MuonPDT (All)

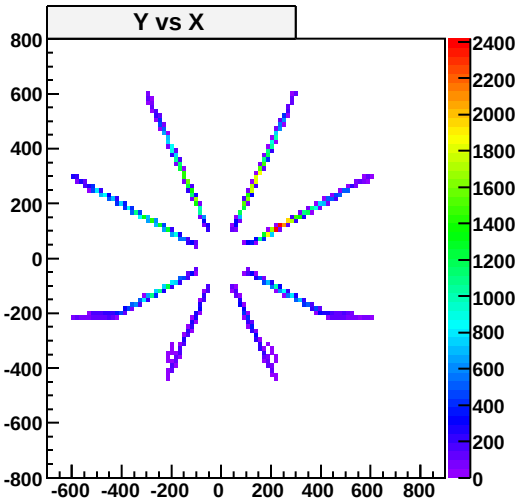

N
Entries 3693
Mean 6.074
RMS 9.084

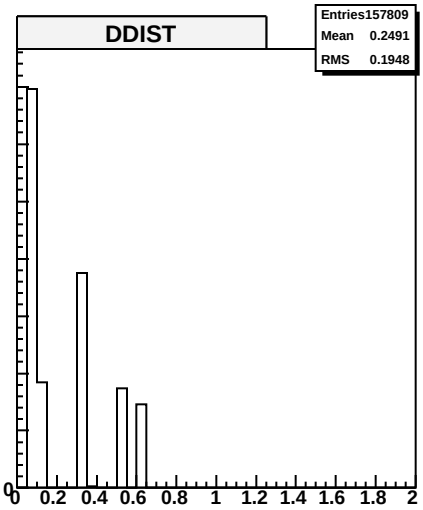

LAYER
Entries 157809
Mean 1.082
RMS 0.6615


OCTANT
Entries 157809
Mean 2.413
RMS 2.101


Y vs Z


X vs Z


Y vs X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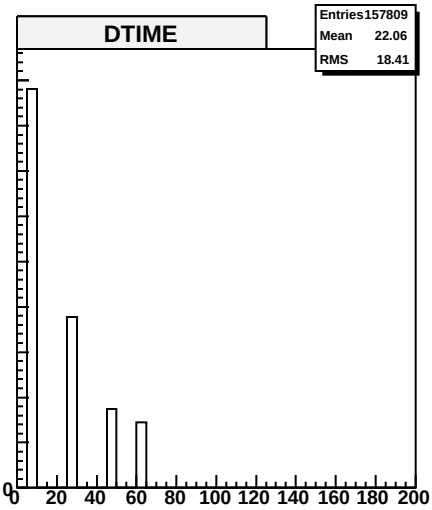
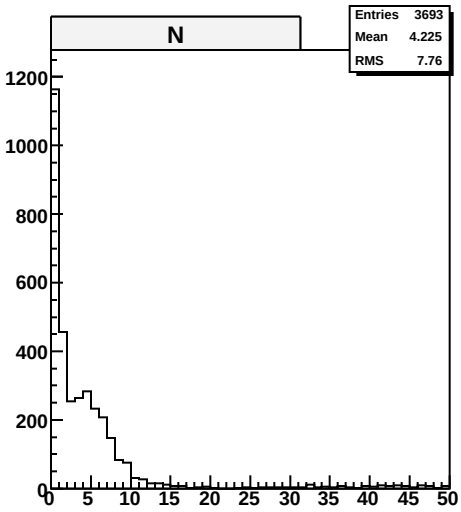
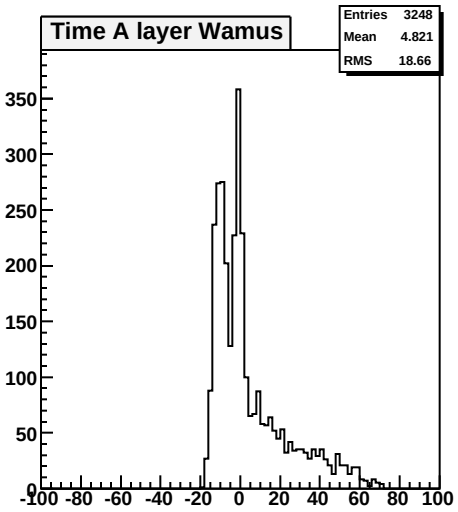
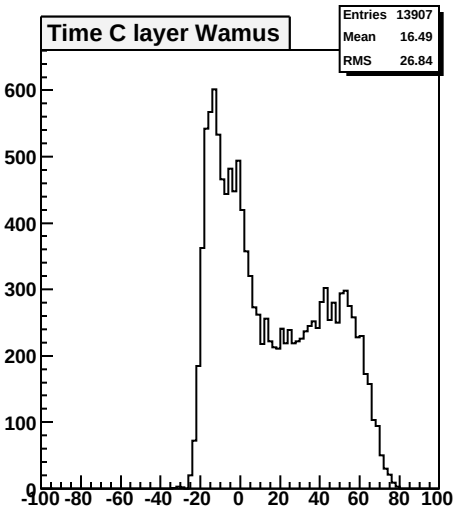
Entries 157809
Mean 0.2491
RMS 0.1948

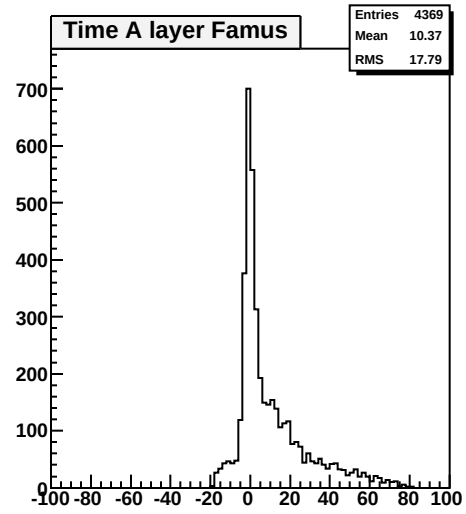

DTIME
Entries 157809
Mean 22.06
RMS 18.41

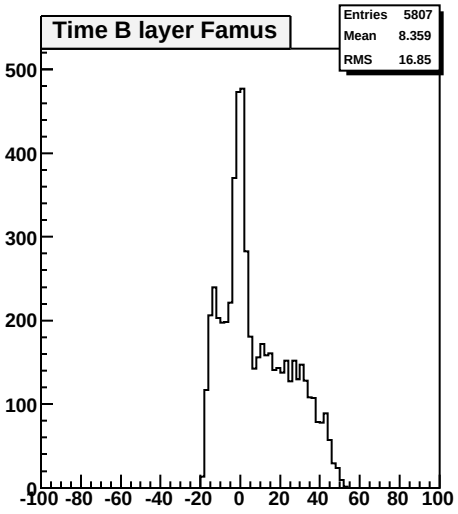
MuonMDT (All)

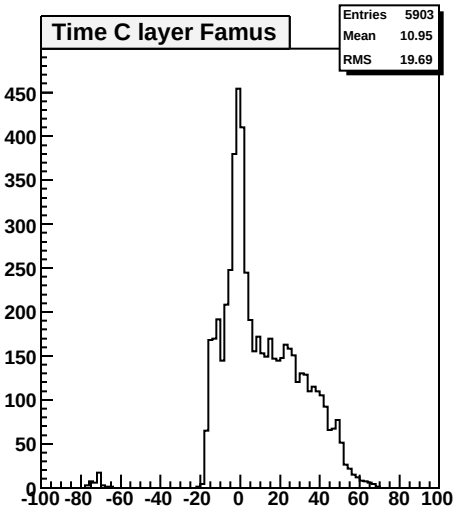

N
Entries 3693
Mean 4.225
RMS 7.76

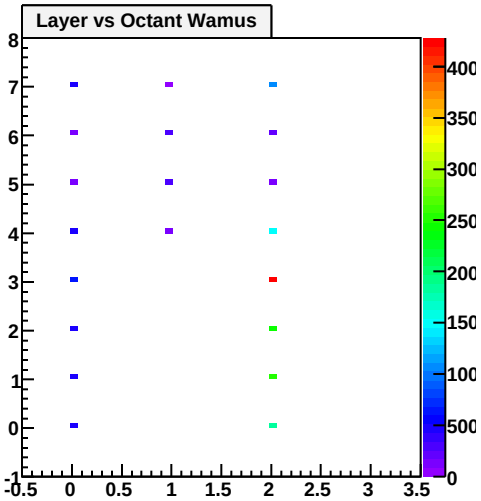

Time A layer Wamus
Entries 3248
Mean 4.821
RMS 18.66

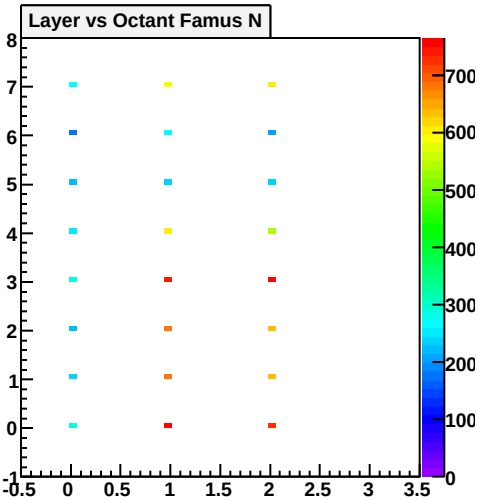

Time C layer Wamus
Entries 13907
Mean 16.49
RMS 26.84

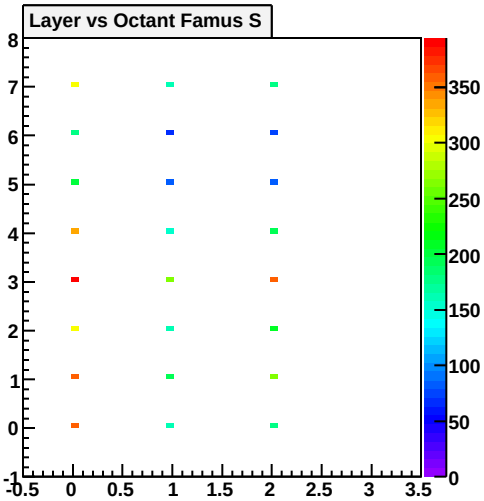

Time A layer Famus
Entries 4369
Mean 10.37
RMS 17.79


Time B layer Famus
Entries 5807
Mean 8.359
RMS 16.85

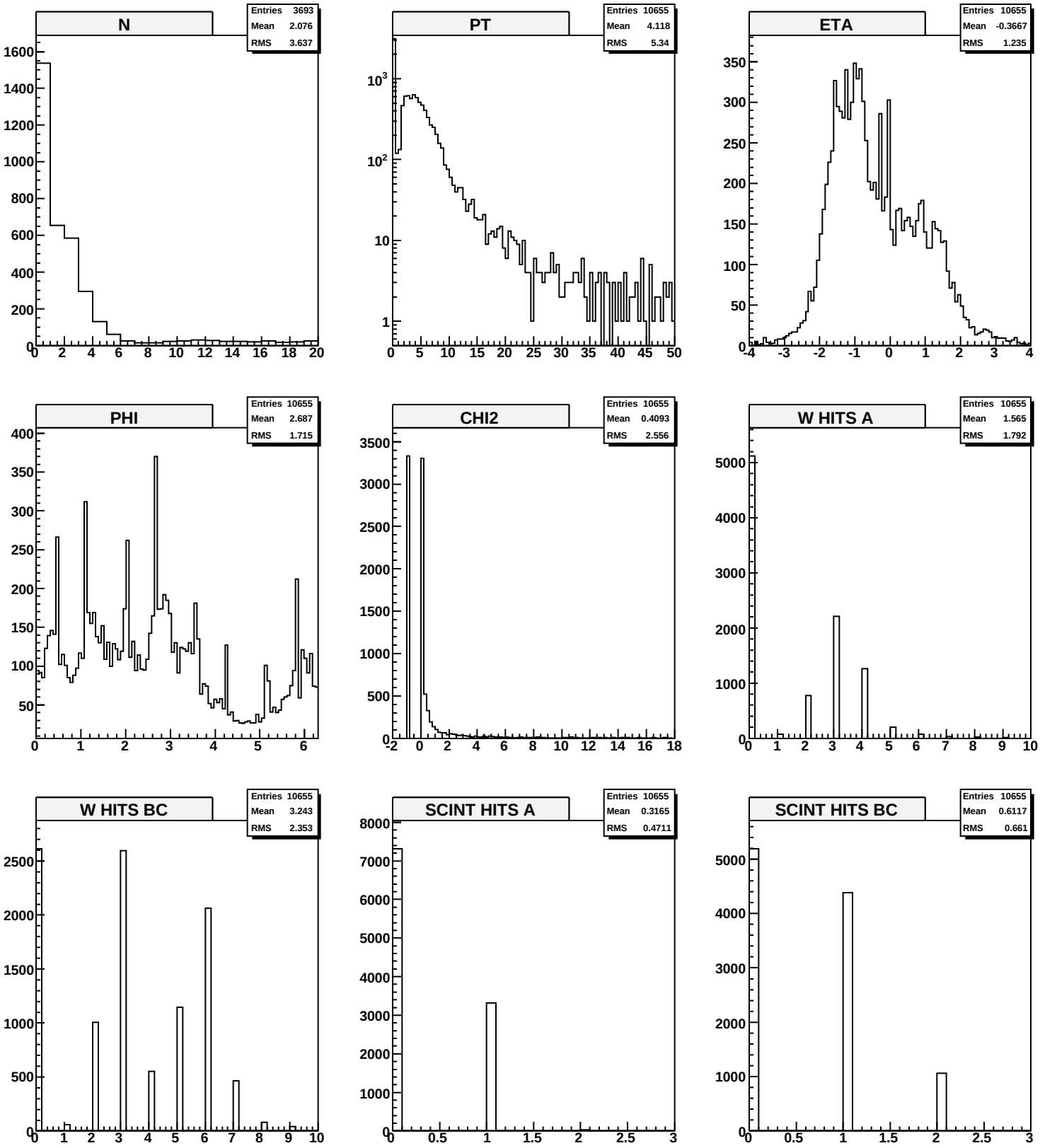

Time C layer Famus
Entries 5903
Mean 10.95
RMS 19.69


Layer vs Octant Wamus

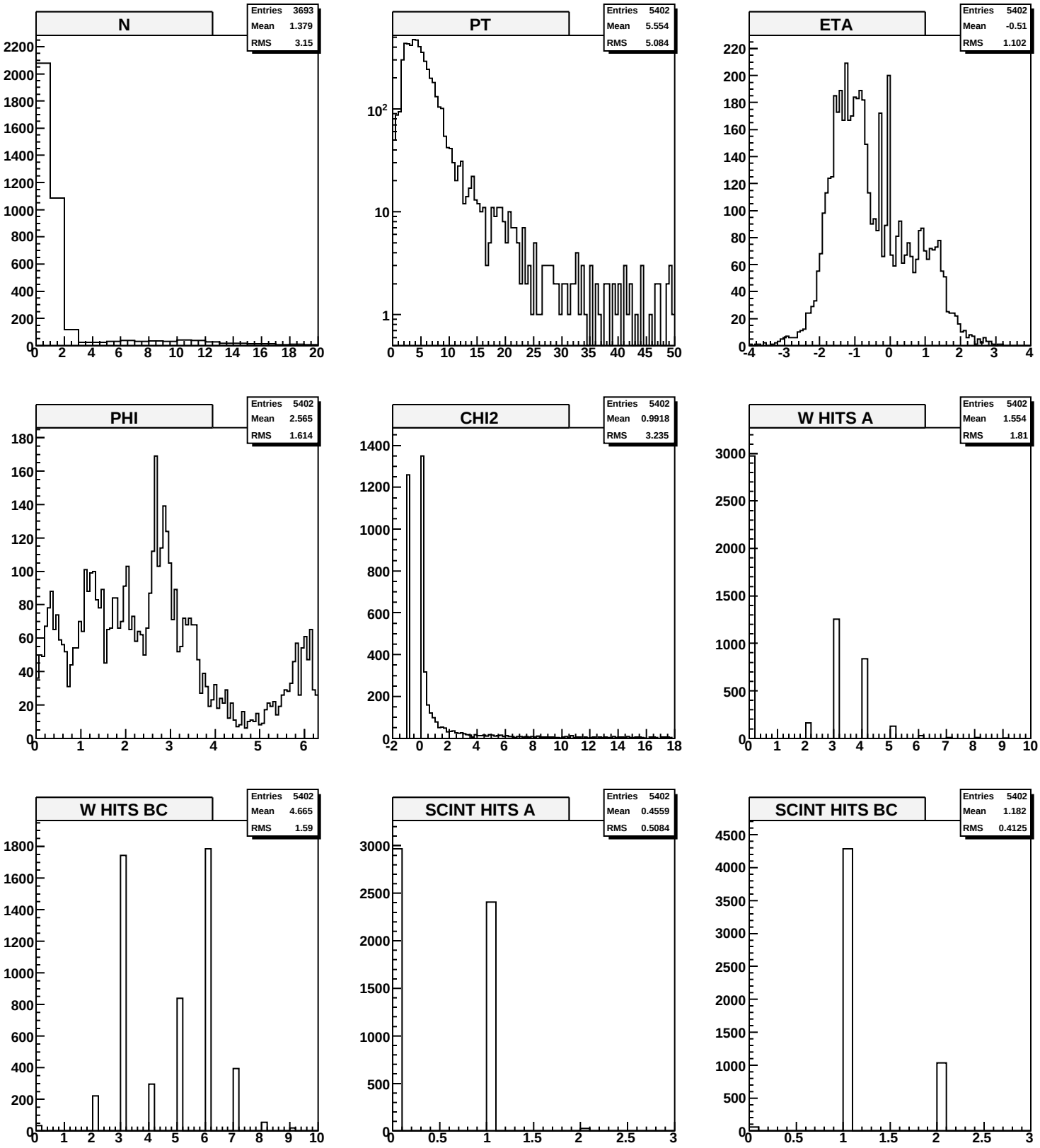

Layer vs Octant Famus N


Layer vs Octant Famus S

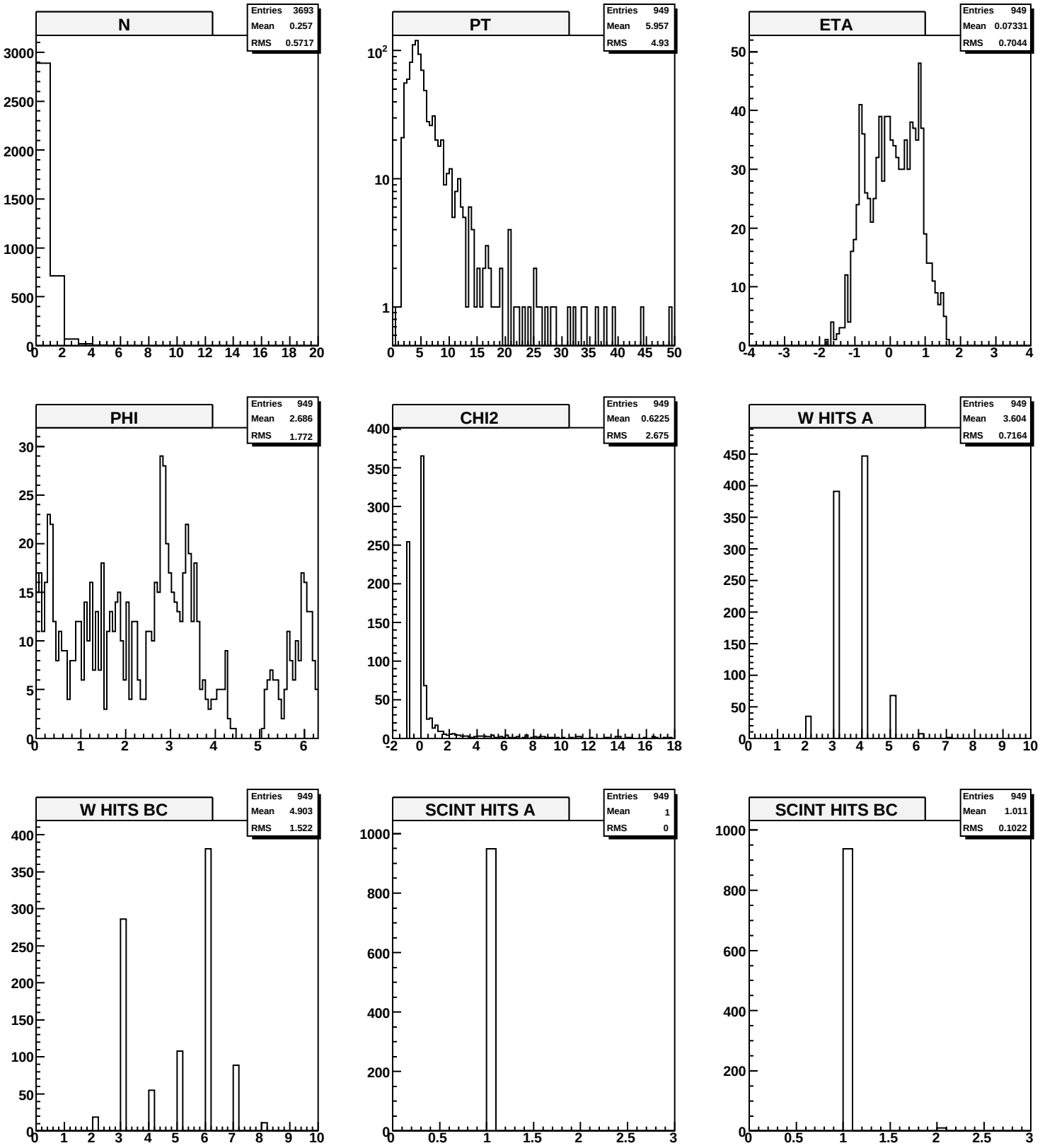
MuonMSC (All)



Muon Local Tracks (All)



Muon Local Tracks (LooseWamus)



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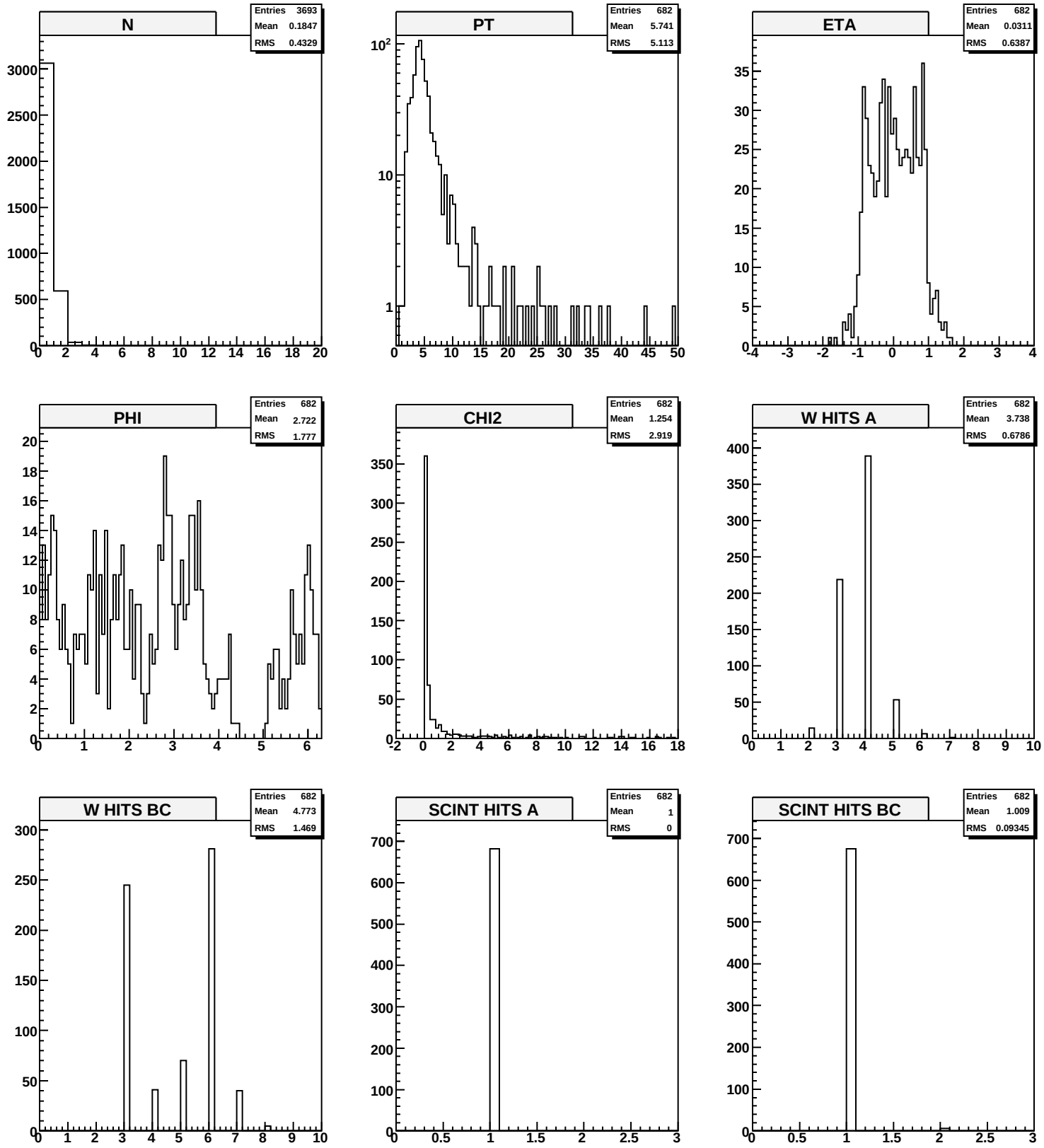

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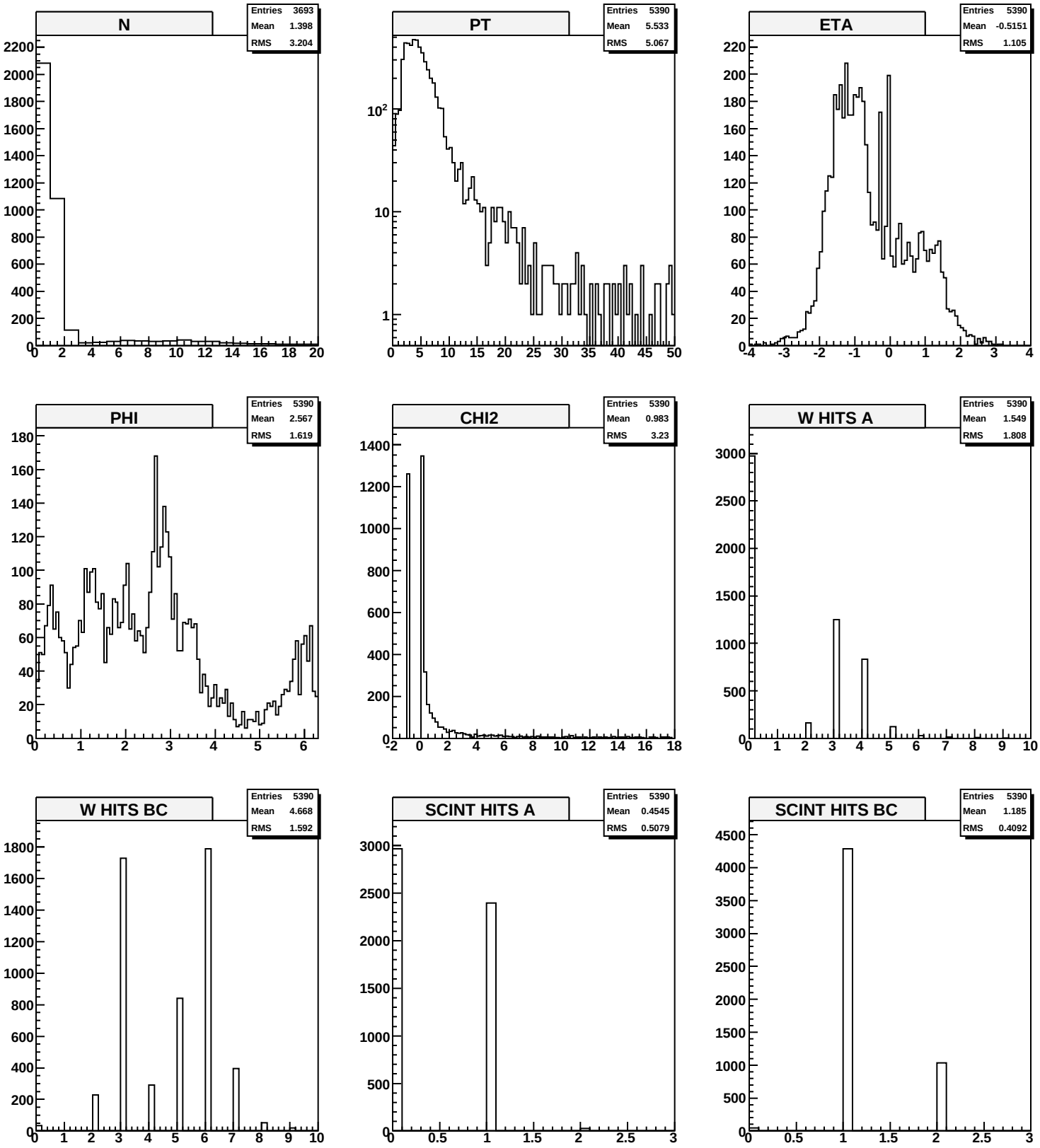

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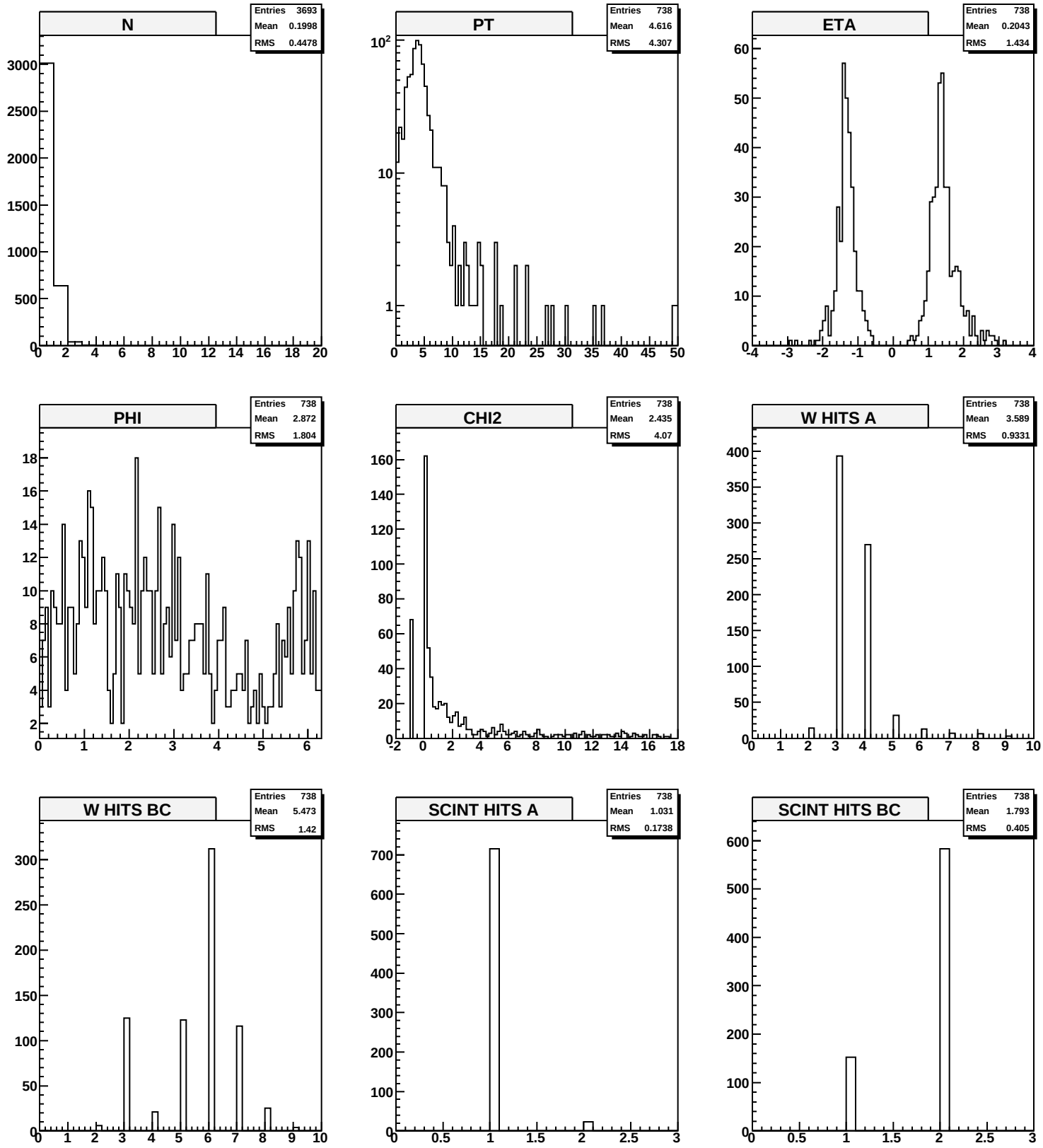

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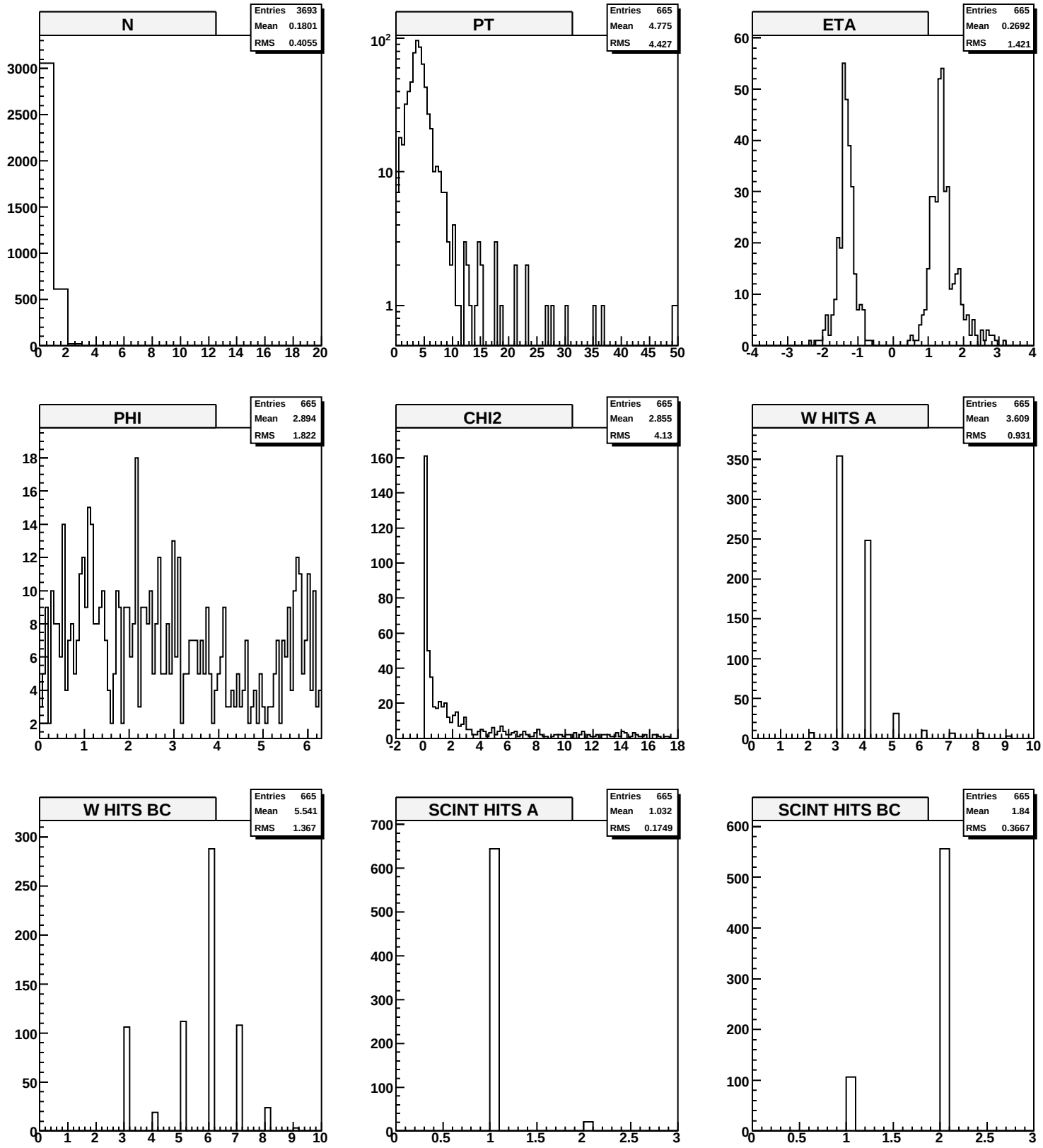

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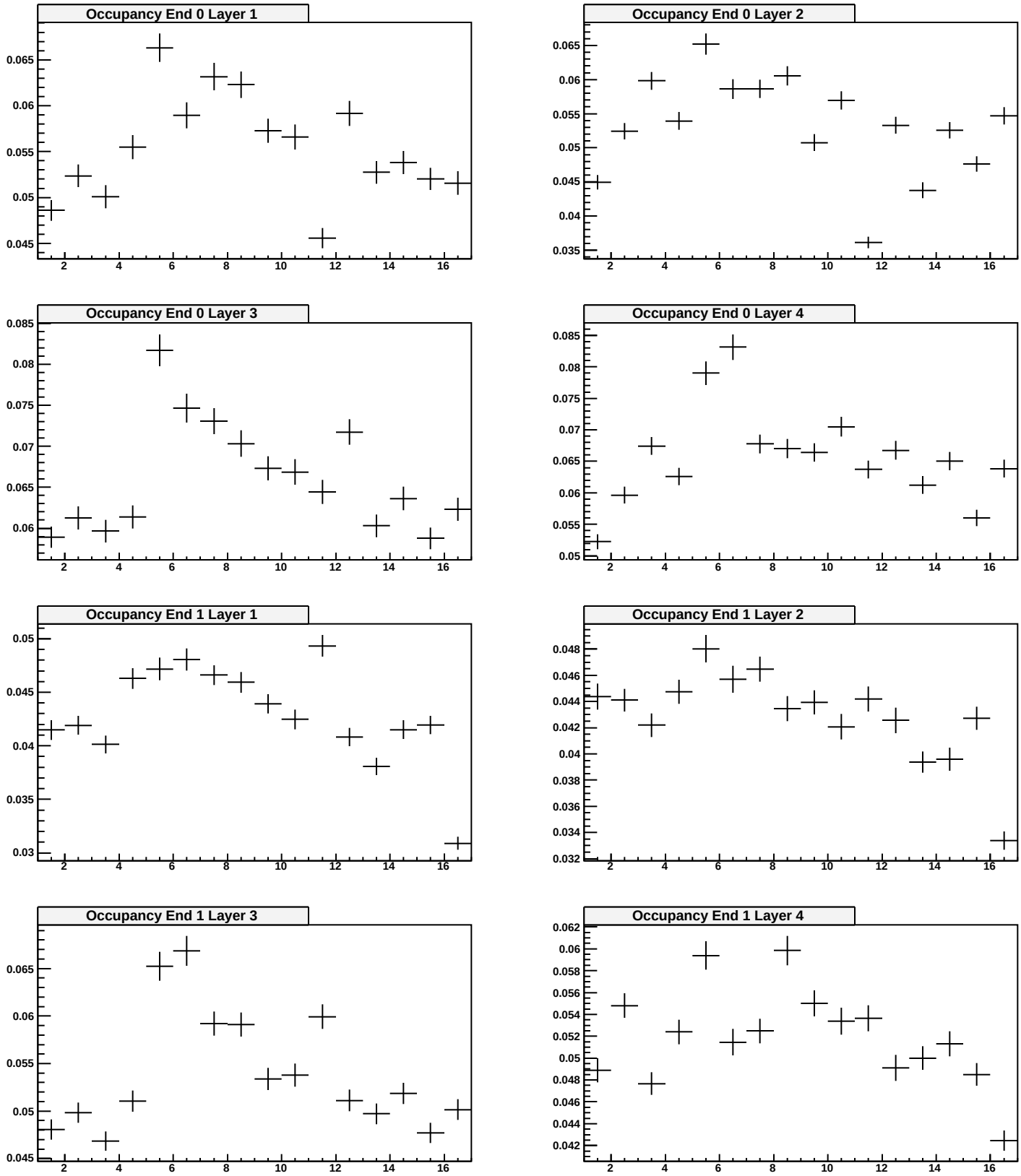

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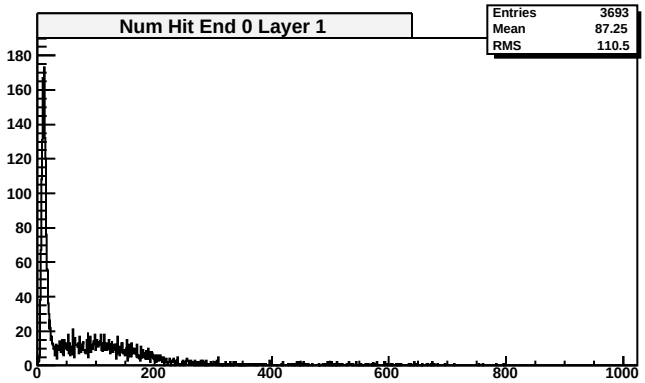
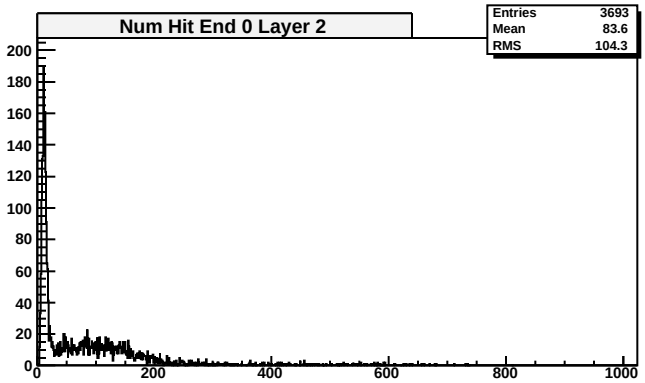
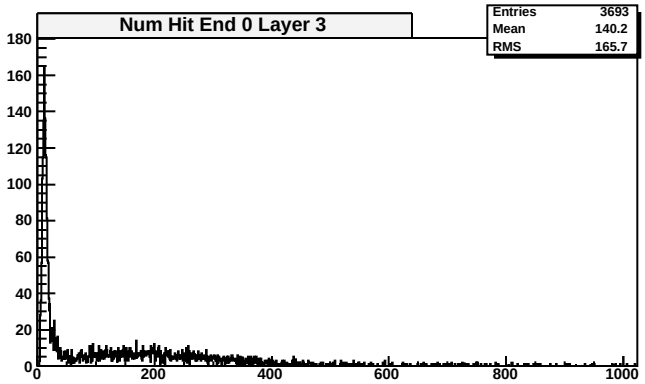
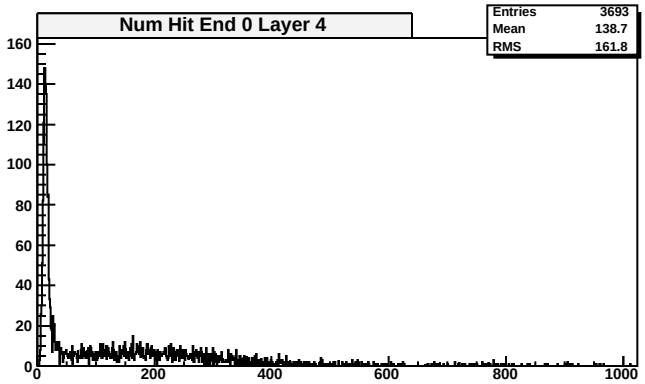
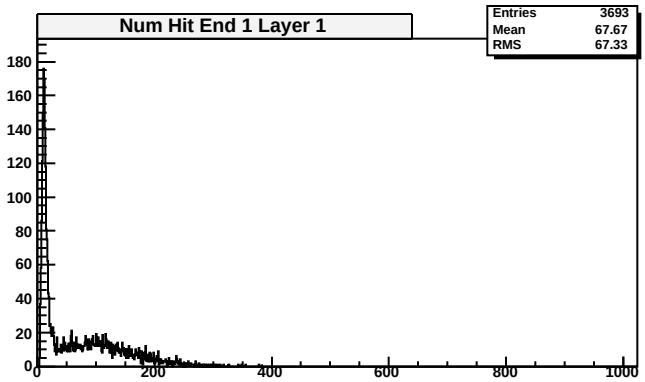
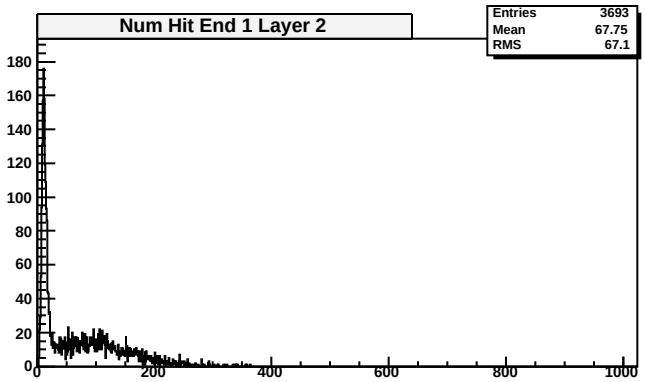


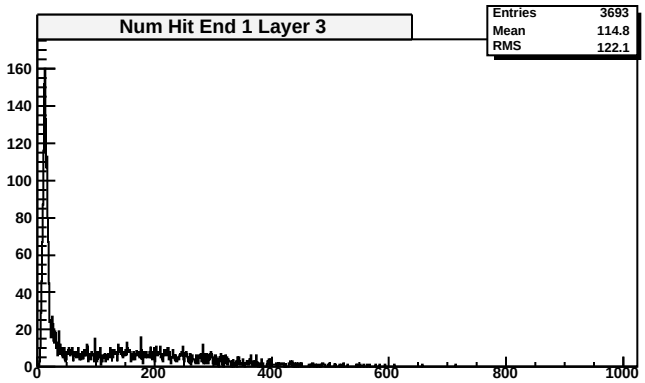


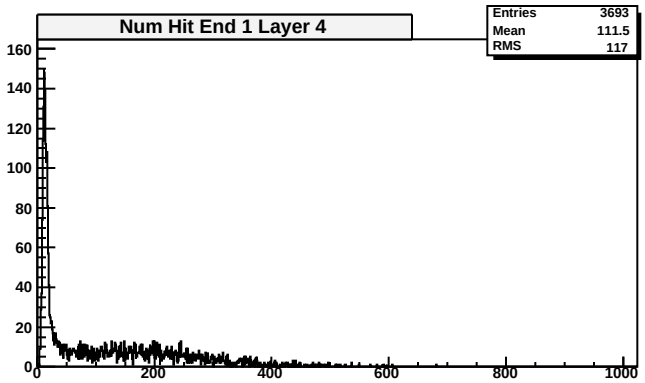




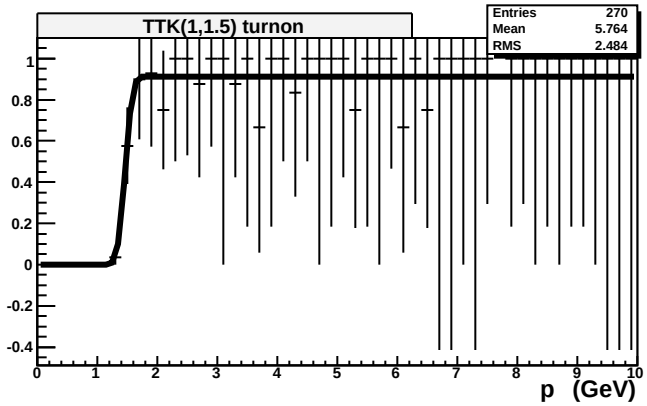


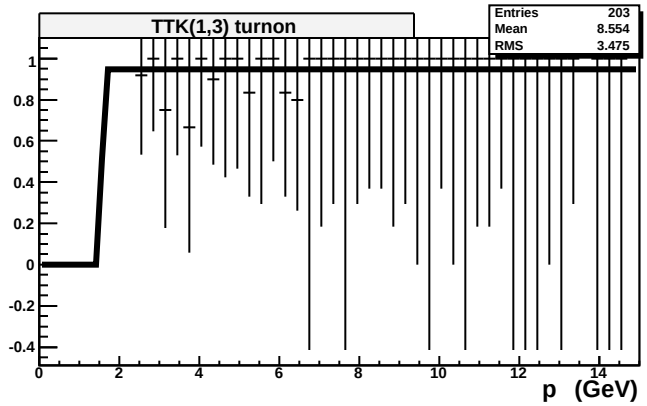


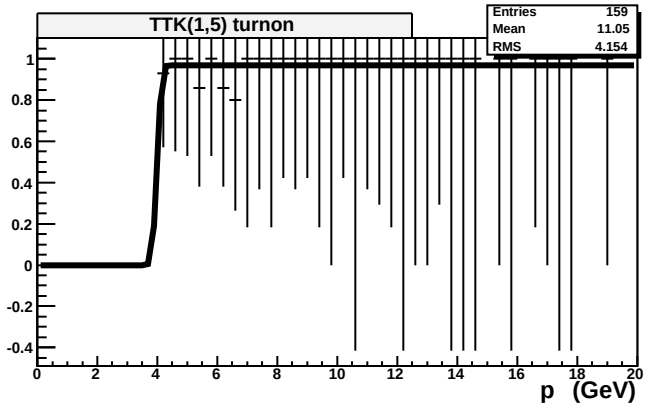


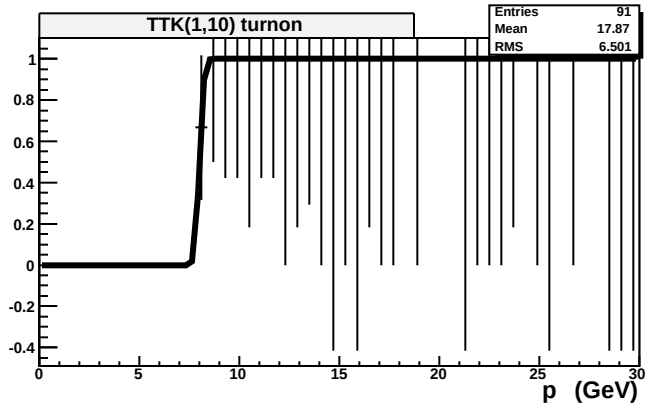


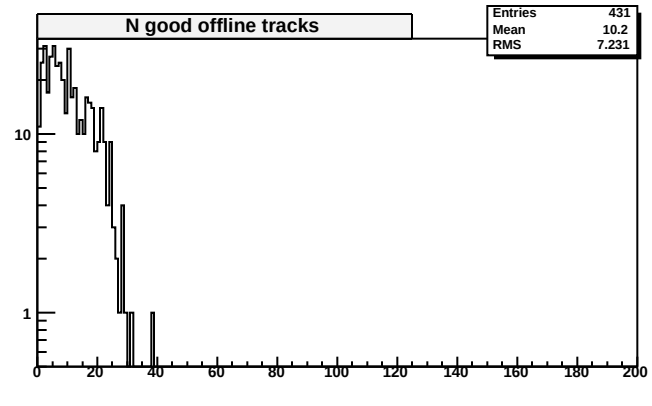
FPS Number of Hits (All)

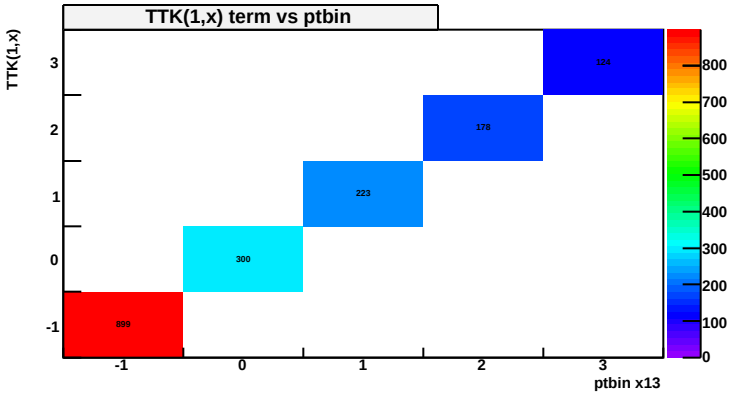


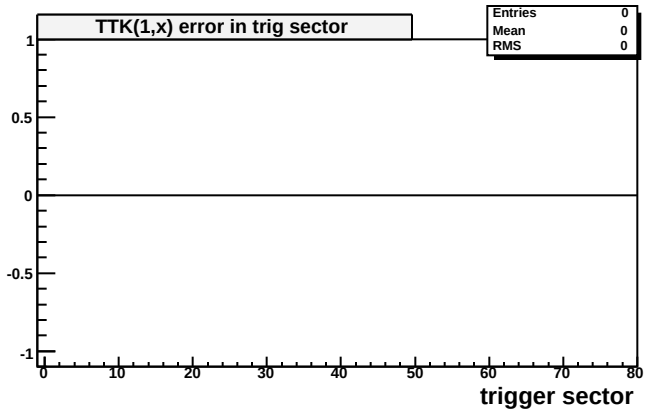


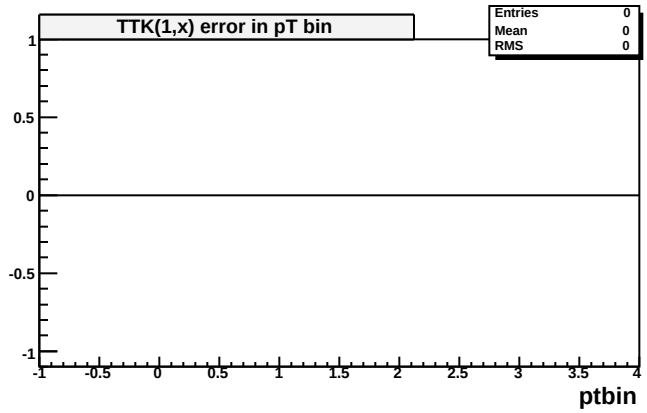












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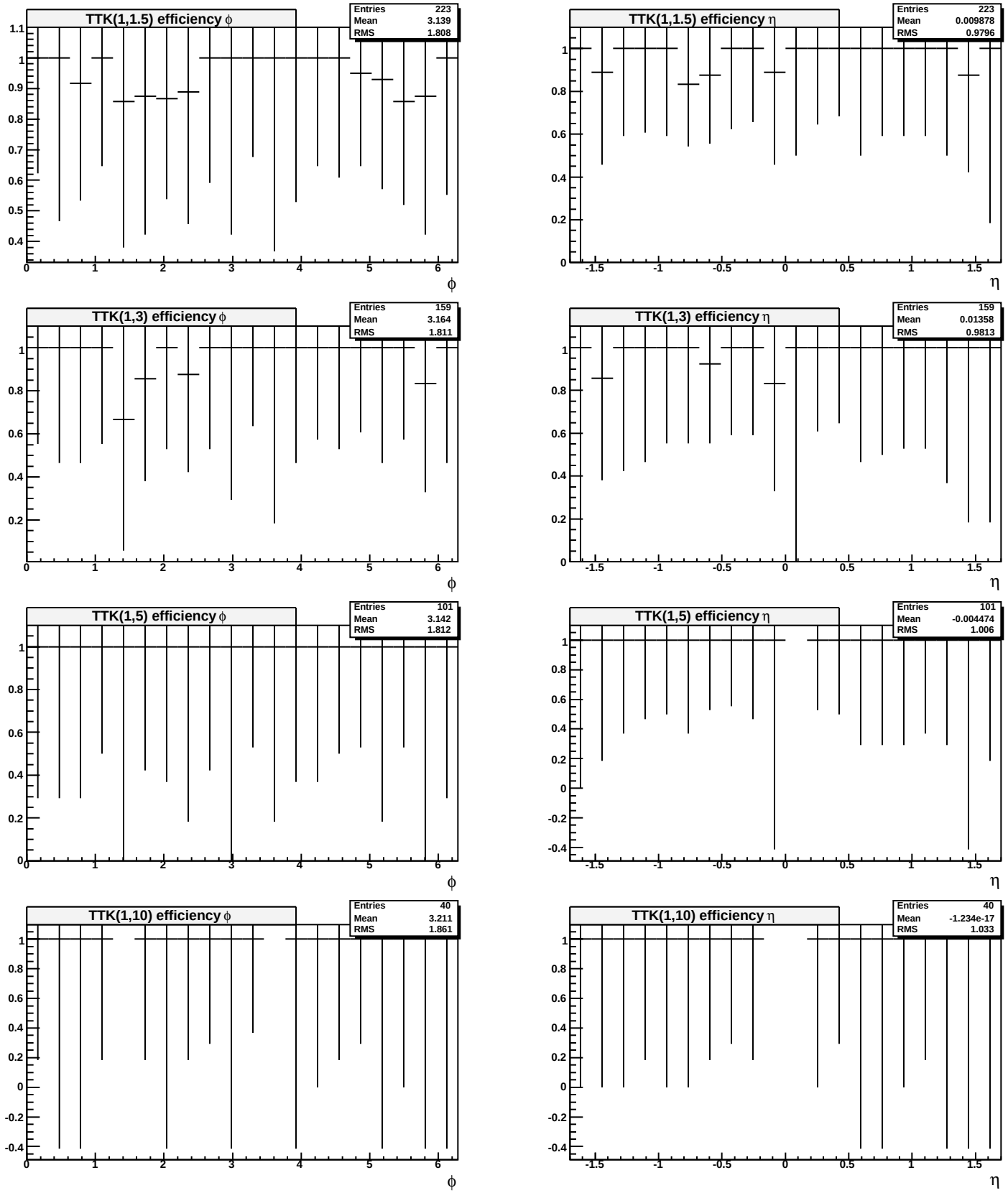

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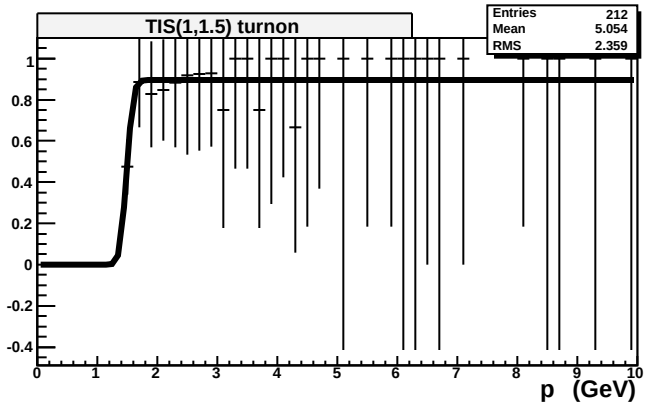

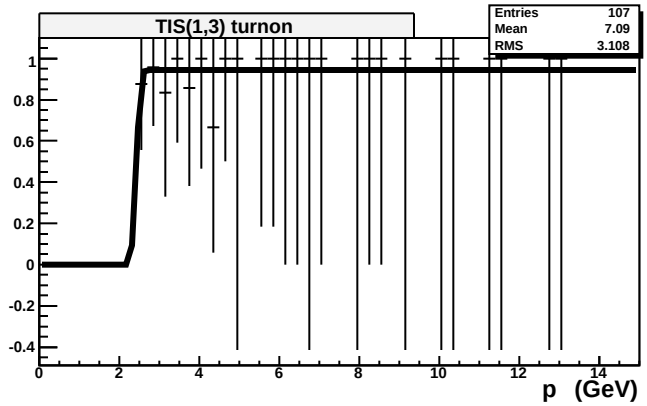

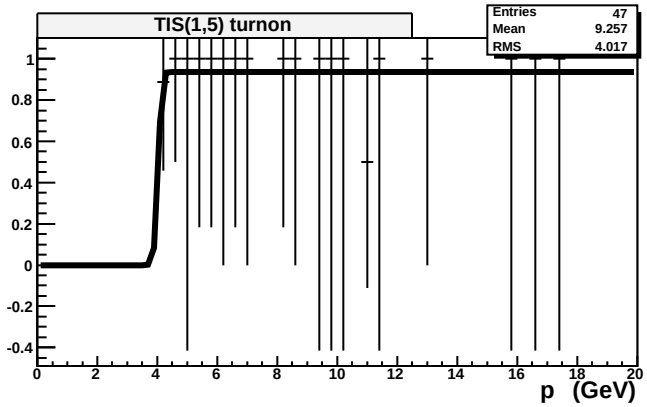

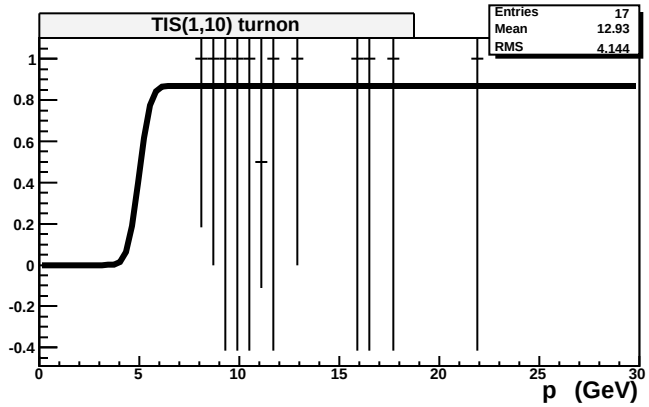

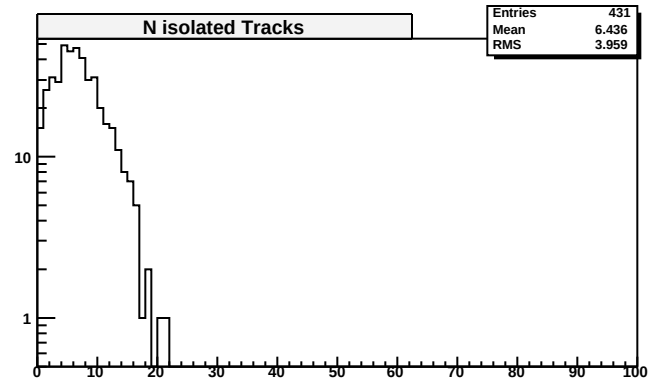

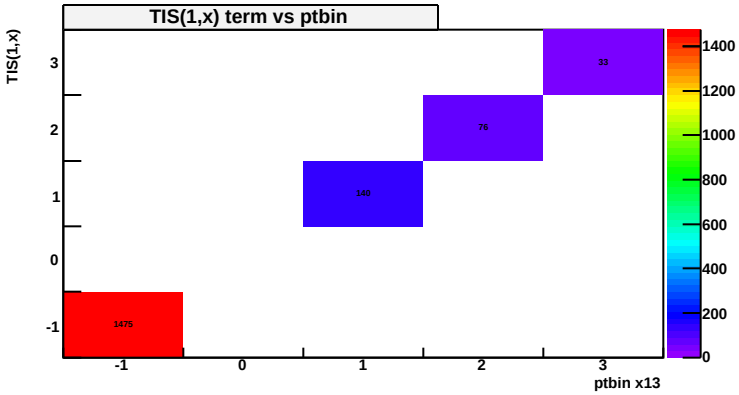

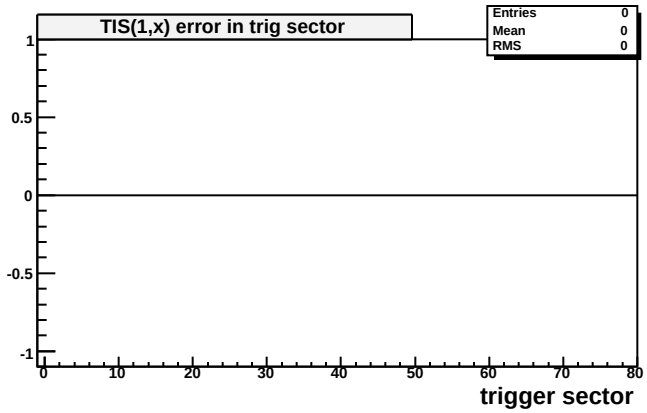

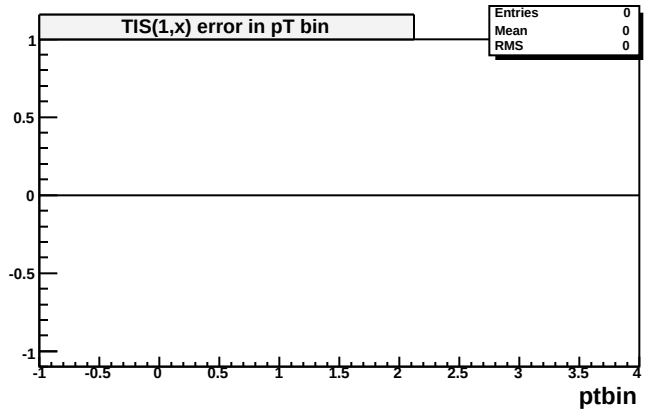

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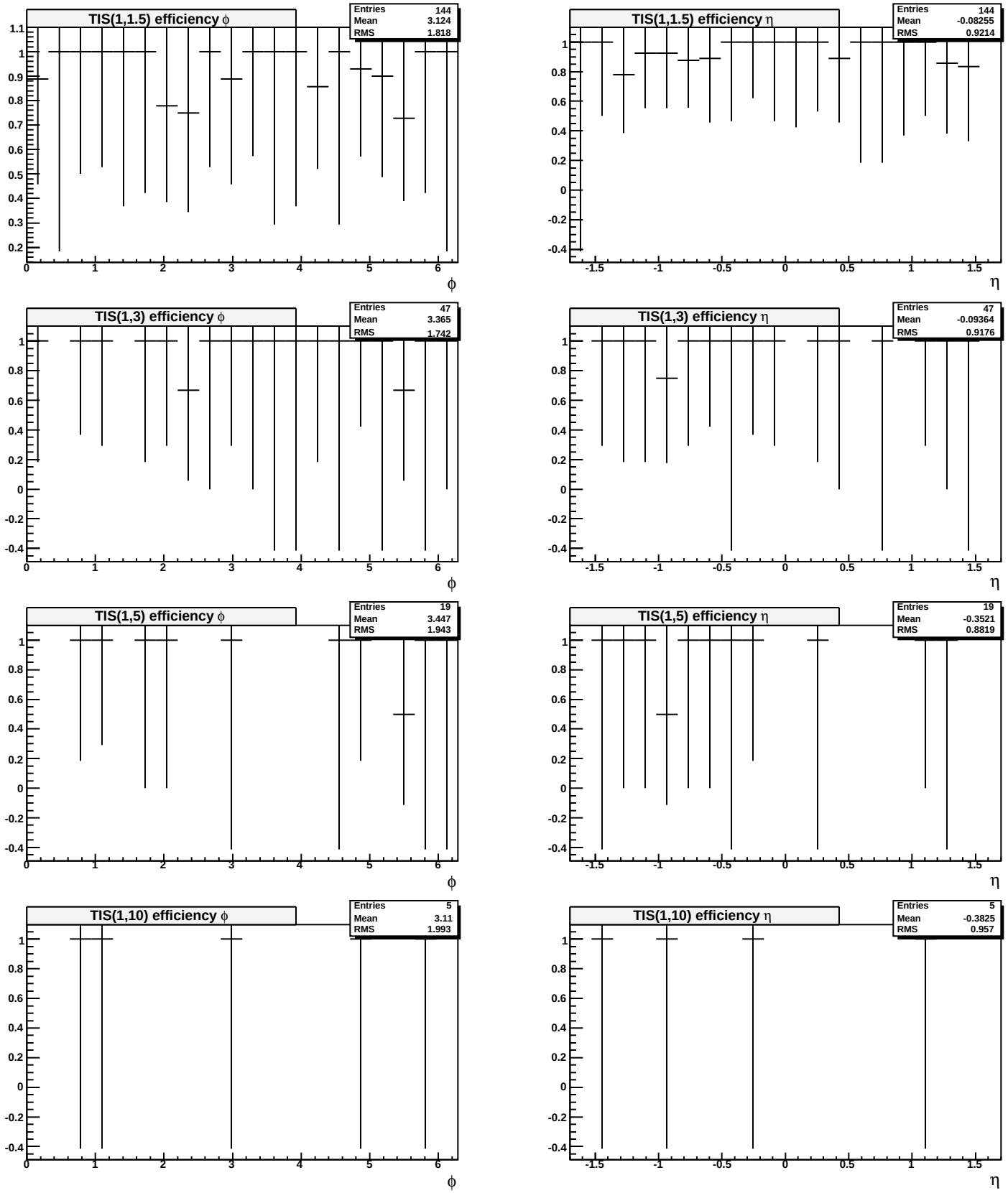

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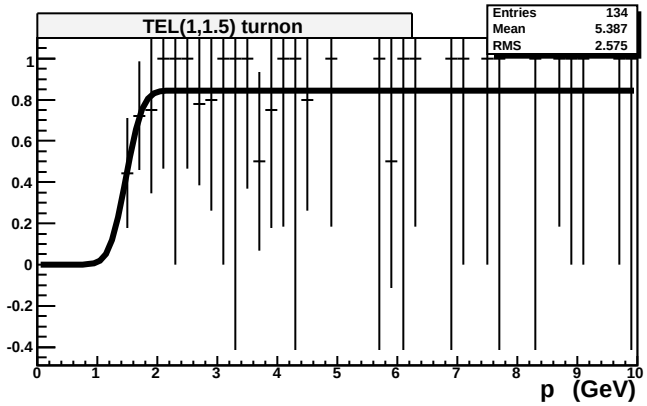

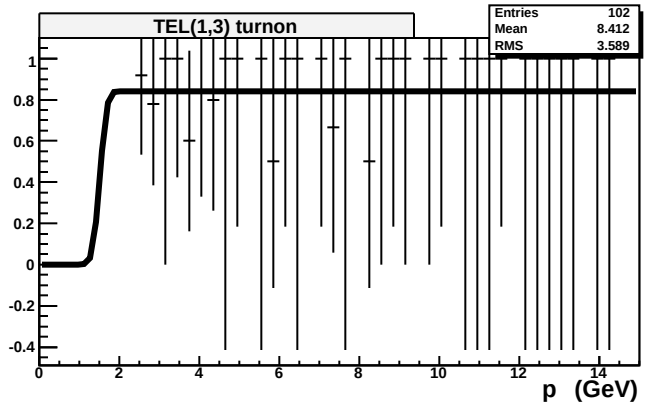

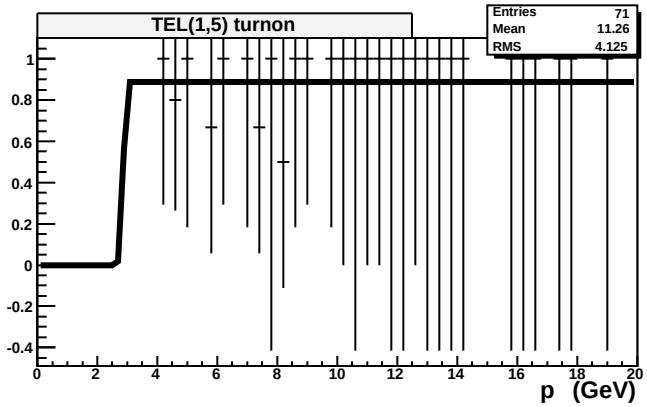

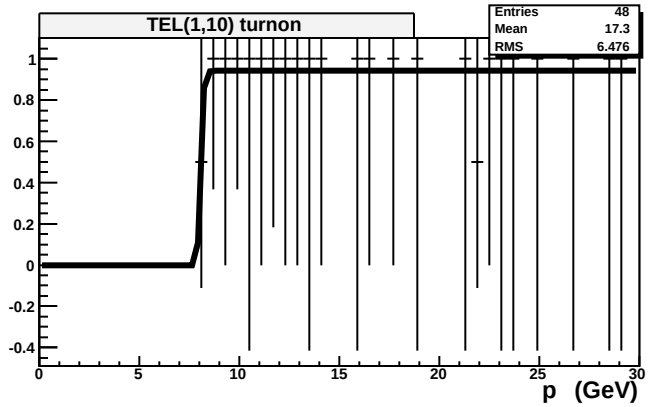

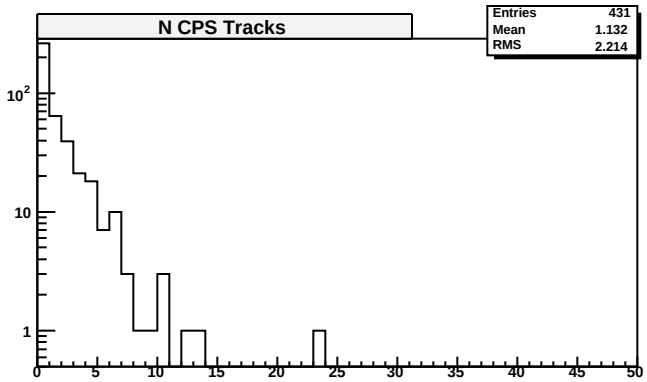

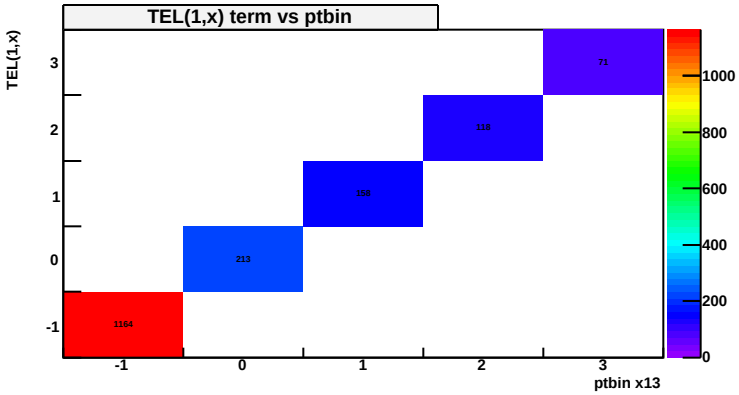

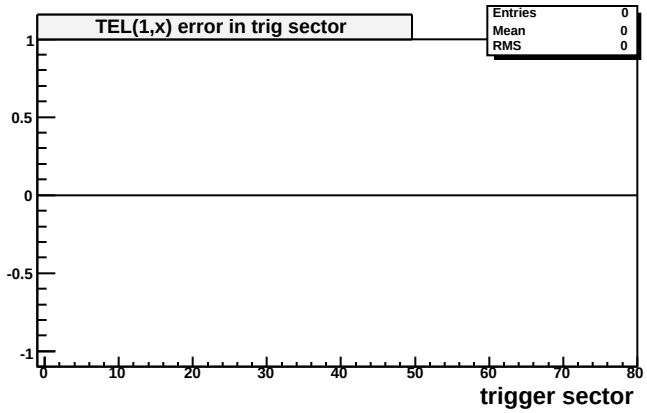

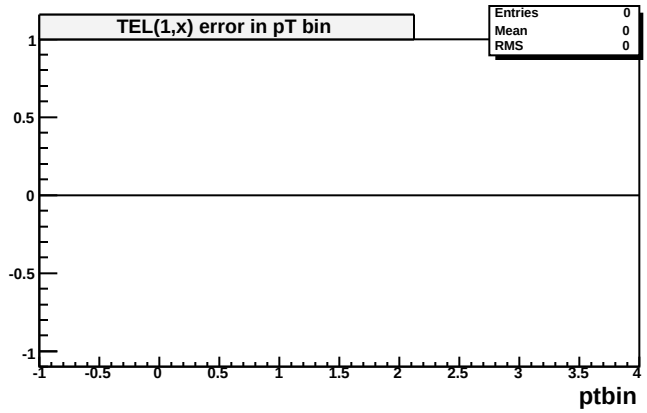

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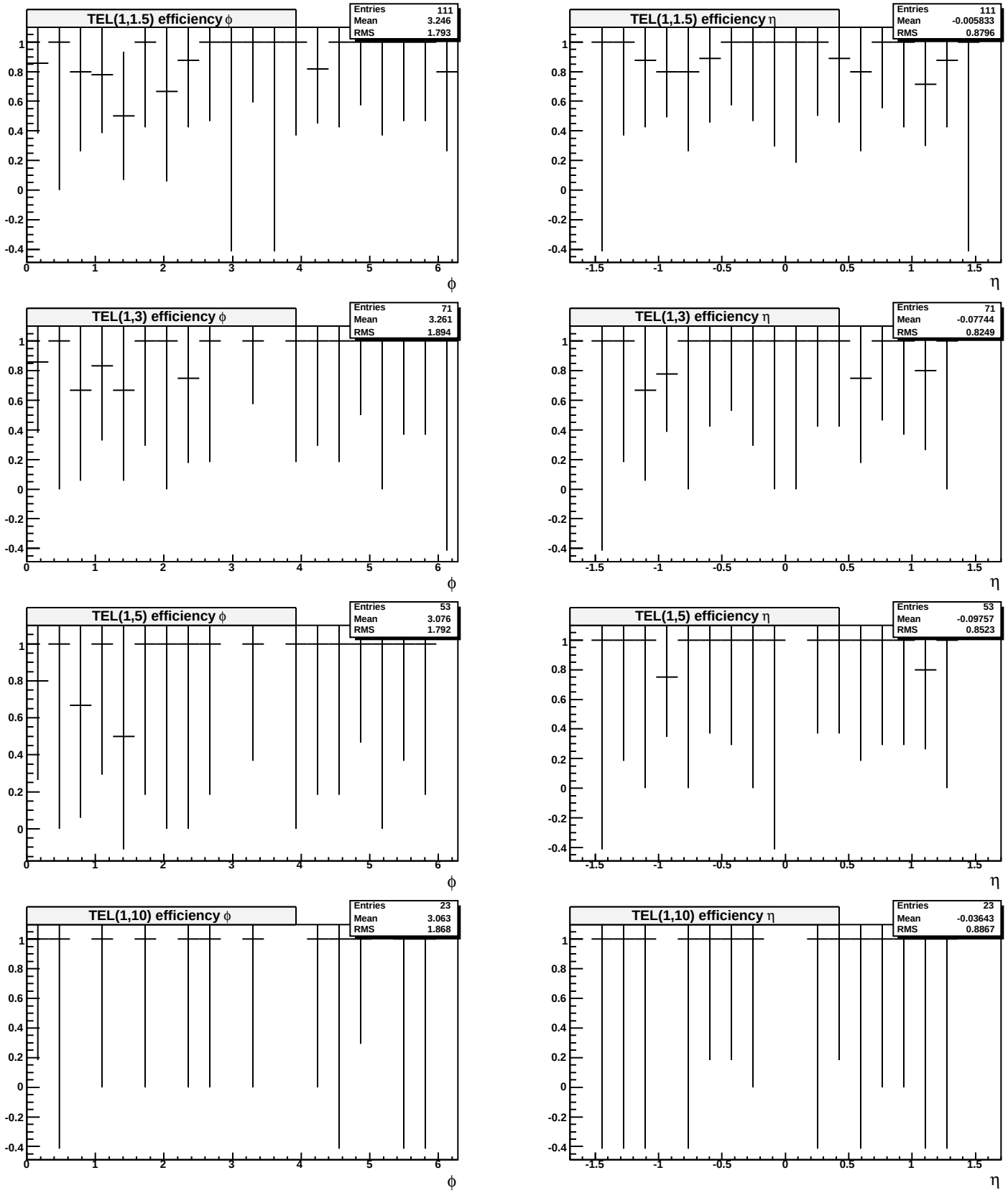

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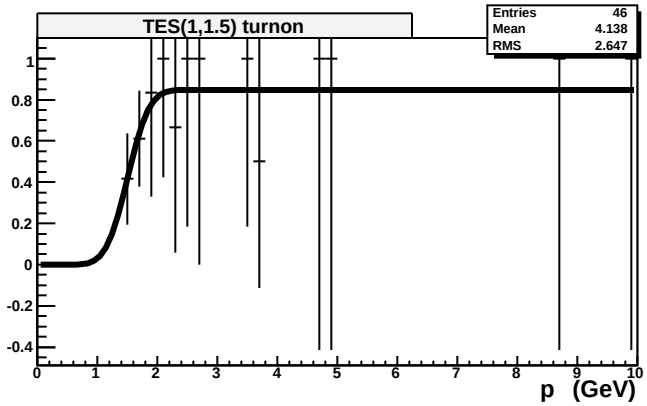

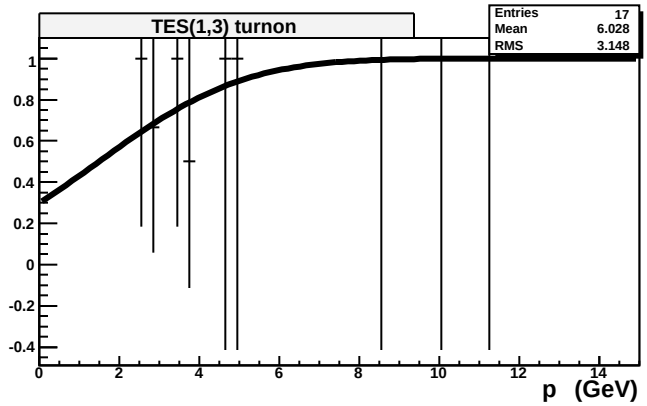

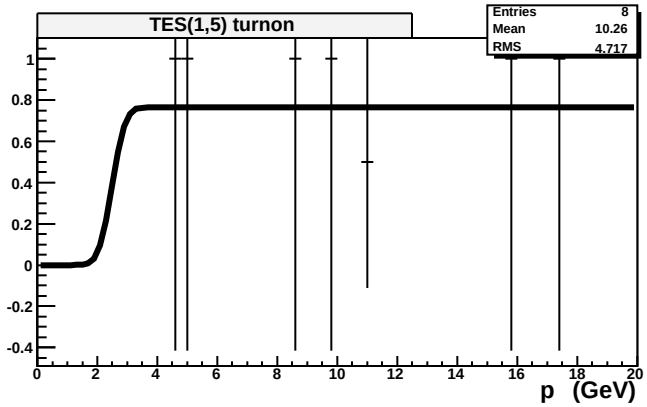

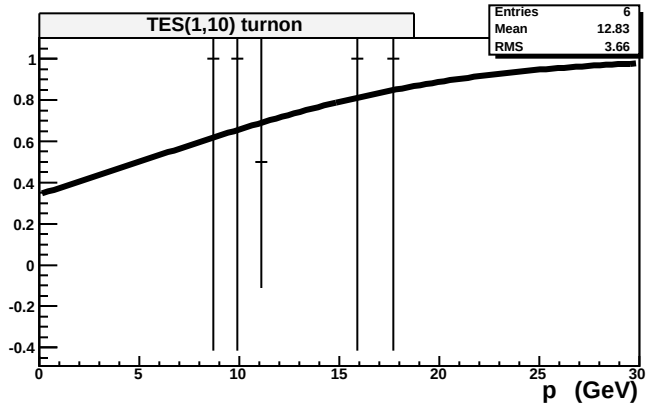

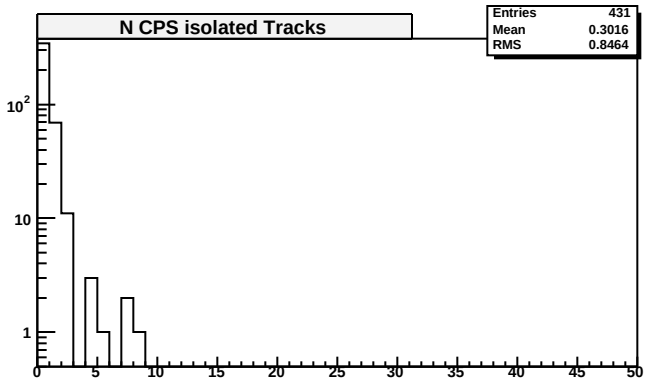

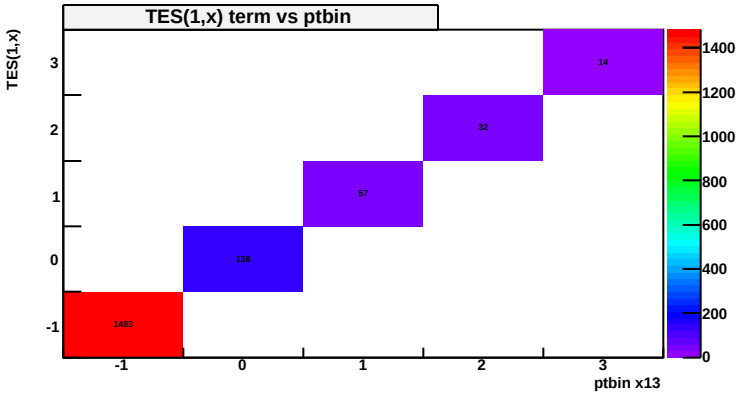

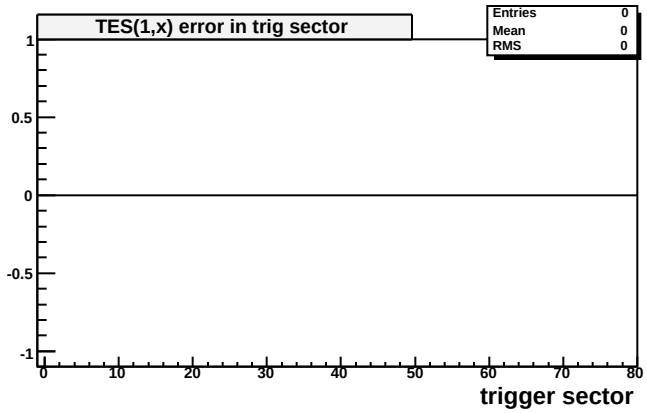

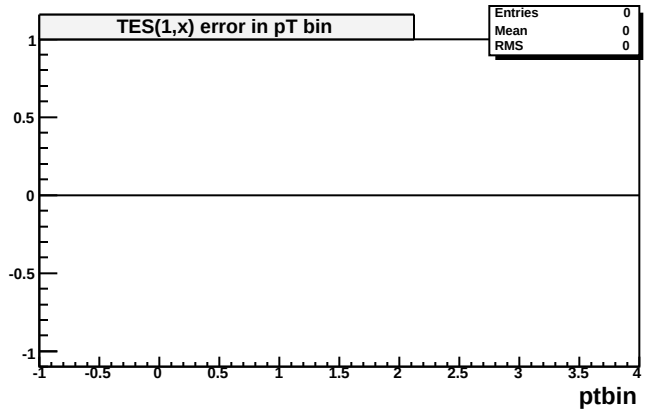

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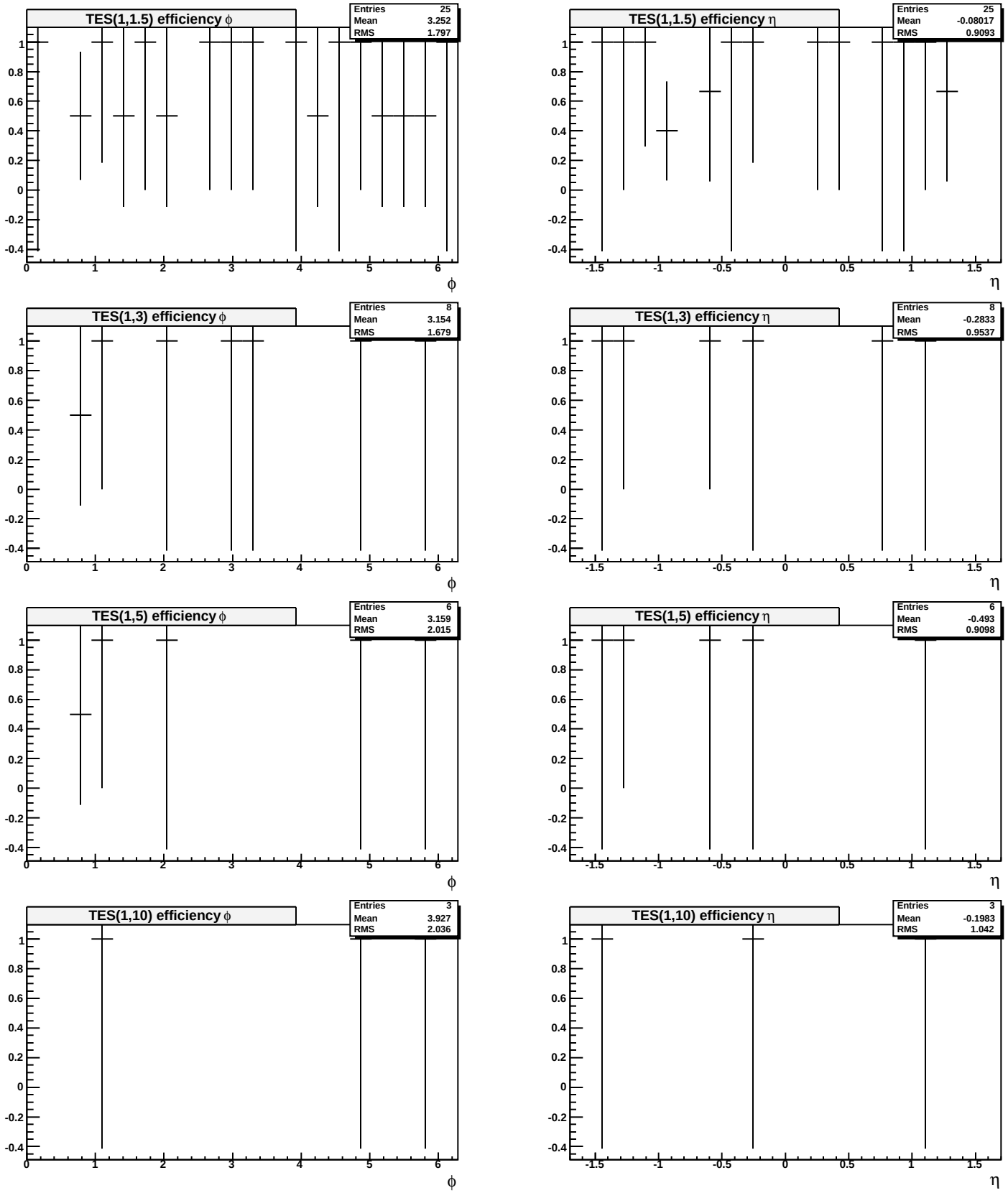

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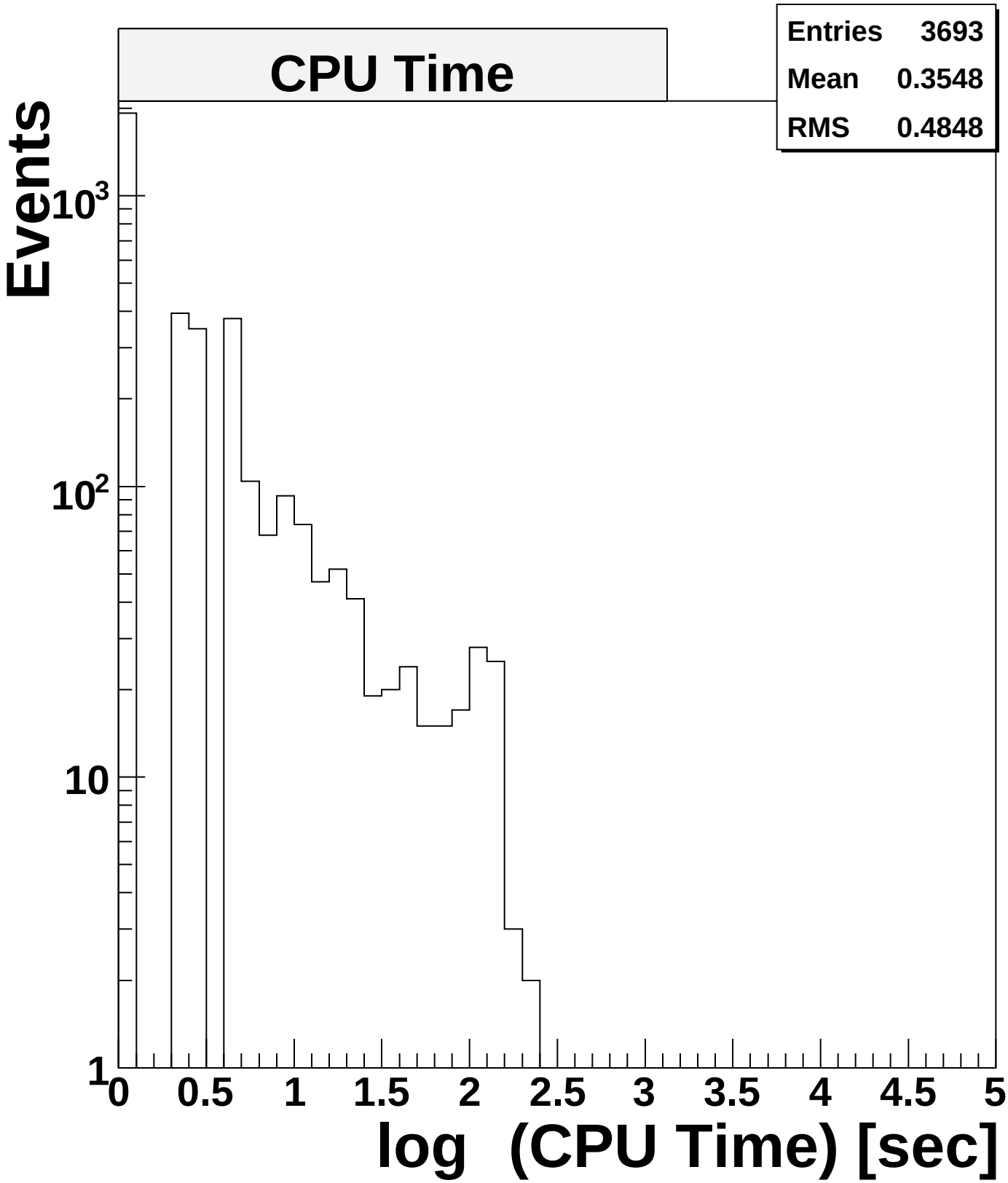

RECO Performance (Timing)