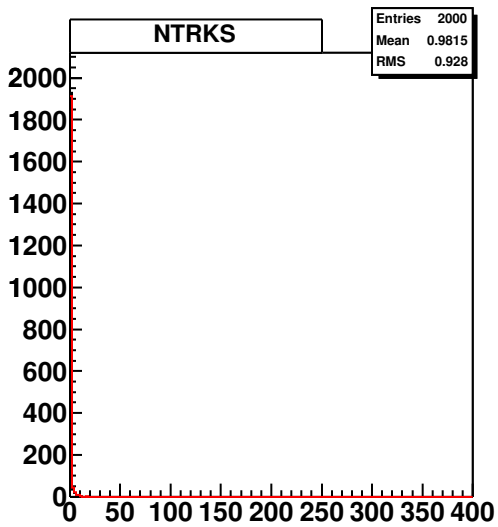
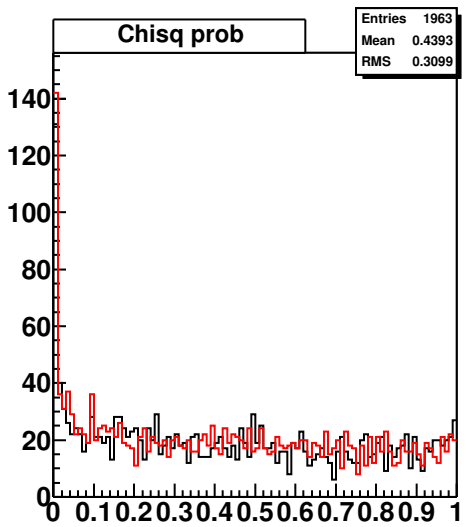
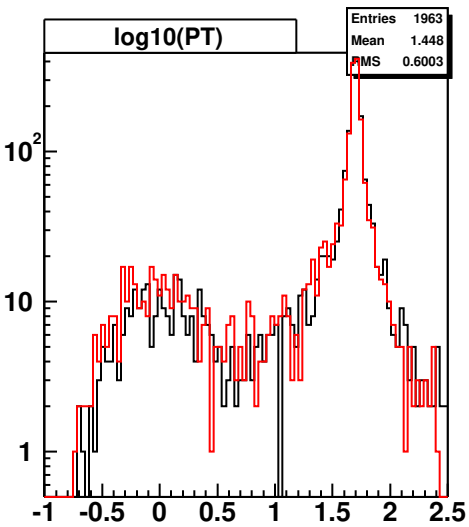
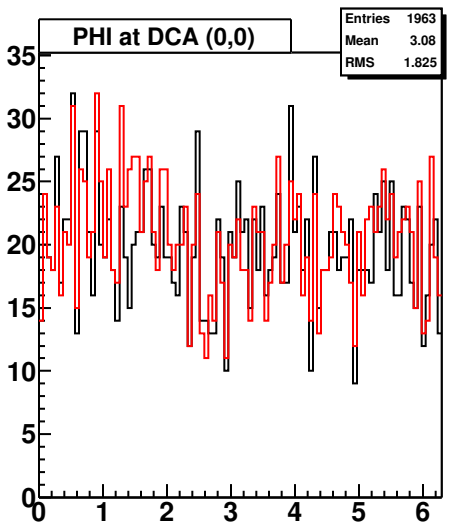
p140502_pion.root

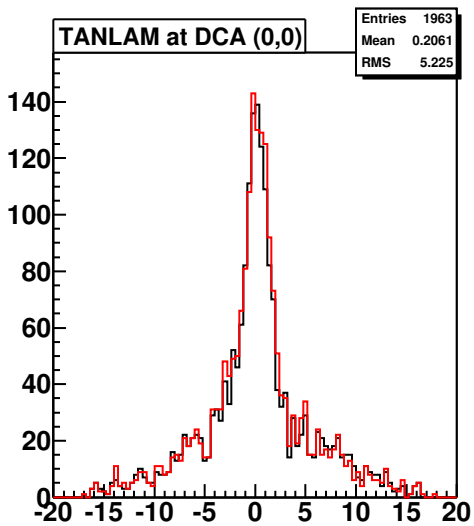
p140700_pion.root

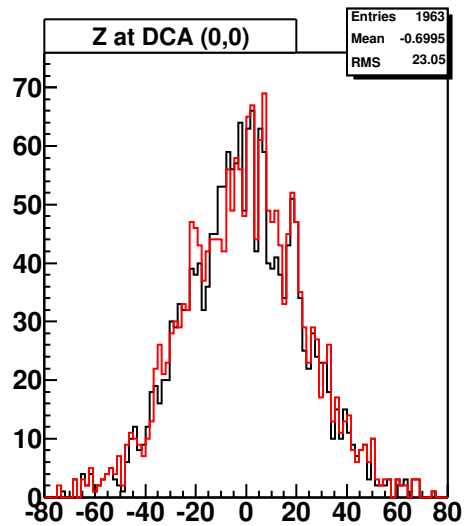

NTRKS
Entries 2000
Mean 0.9815
RMS 0.928

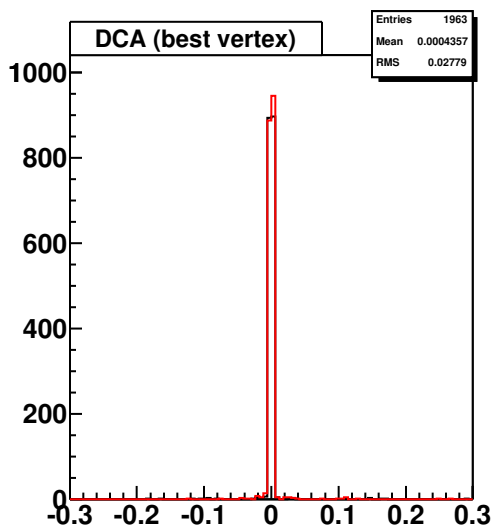

Chisq prob
Entries 1963
Mean 0.4393
RMS 0.3099

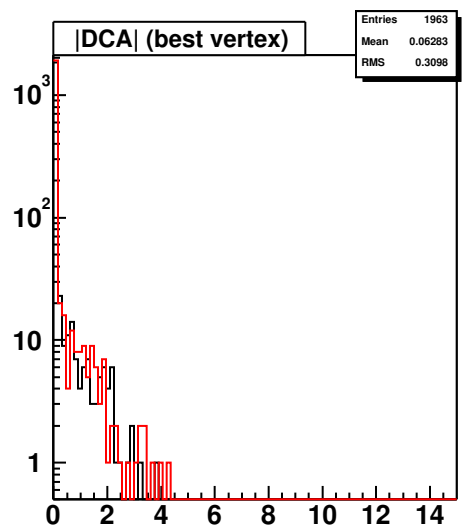

log10(PT)
Entries 1963
Mean 1.448
RMS 0.6003

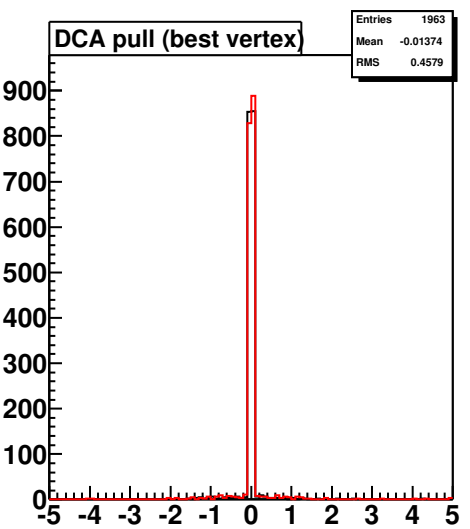

PHI at DCA (0,0)
Entries 1963
Mean 3.08
RMS 1.825


TANLAM at DCA (0,0)
Entries 1963
Mean 0.2061
RMS 5.225

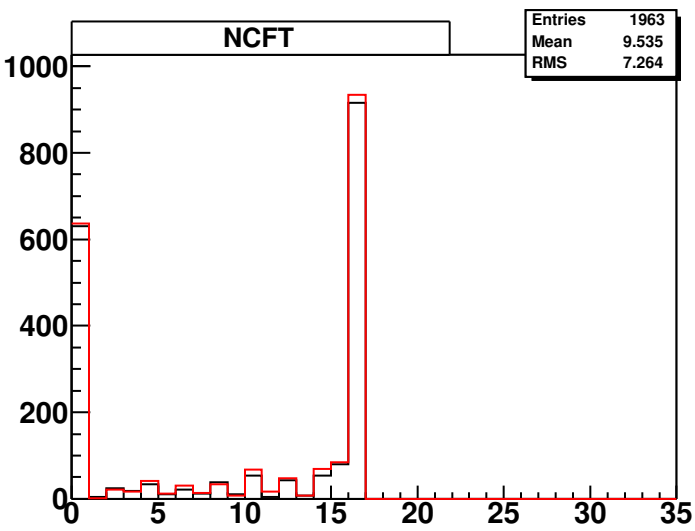

Z at DCA (0,0)
Entries 1963
Mean -0.6995
RMS 23.05

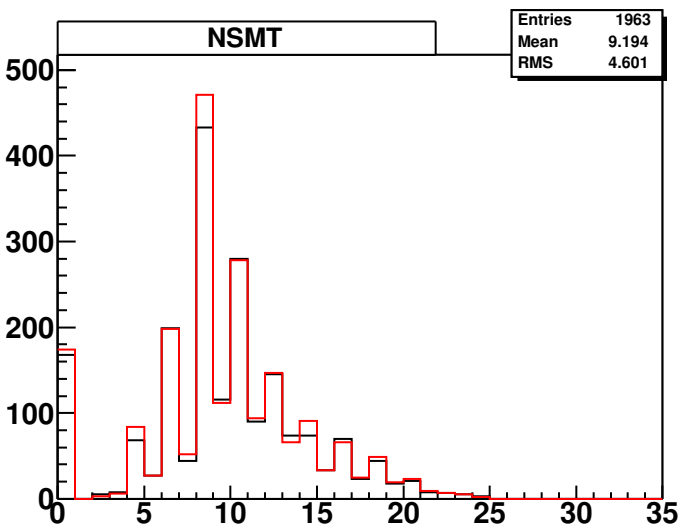

DCA (best vertex)
Entries 1963
Mean 0.0004357
RMS 0.02779

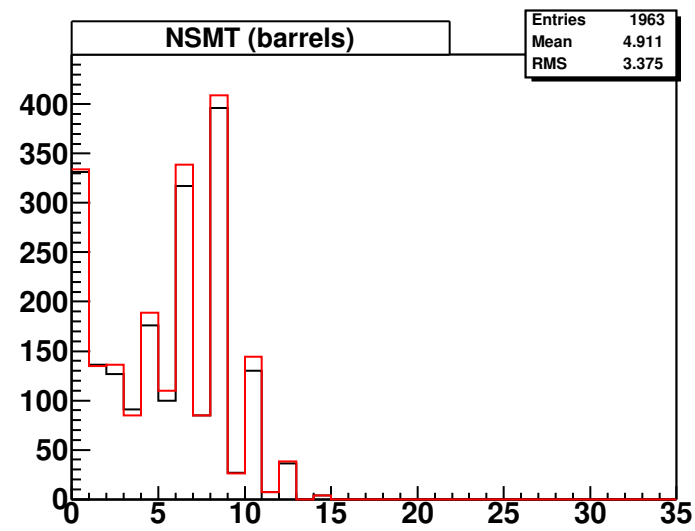

|DCA| (best vertex)
Entries 1963
Mean 0.06283
RMS 0.3098

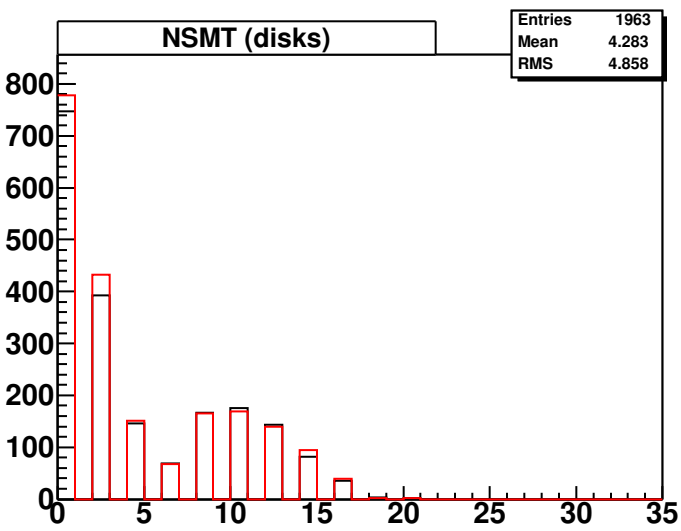

DCA pull (best vertex)
Entries 1963
Mean -0.01374
RMS 0.4579

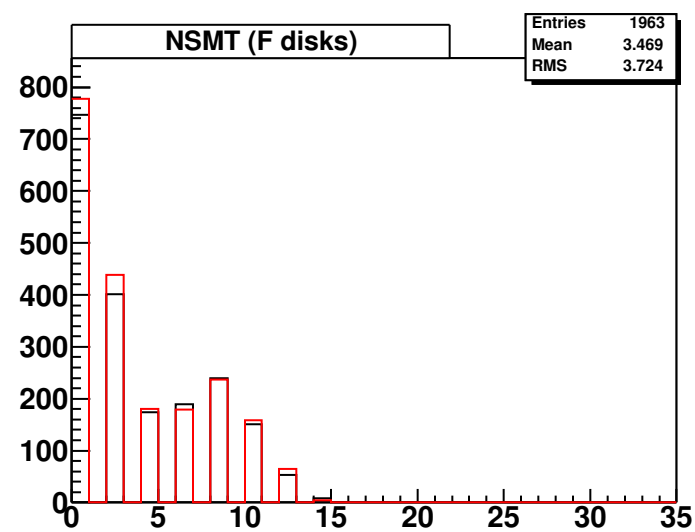
Tracks (All)

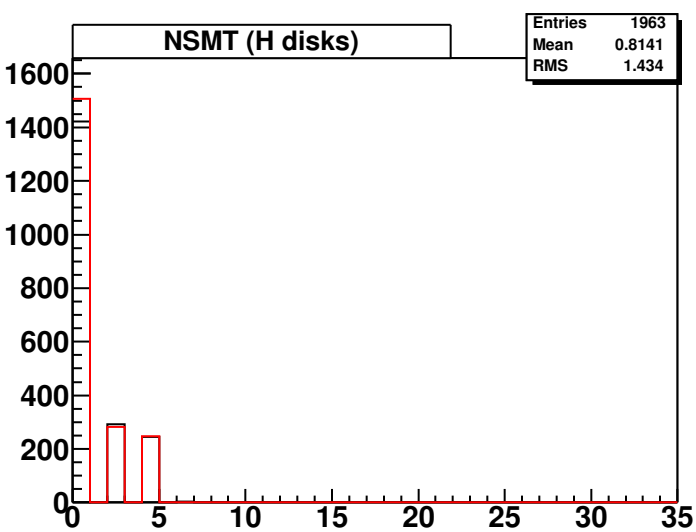




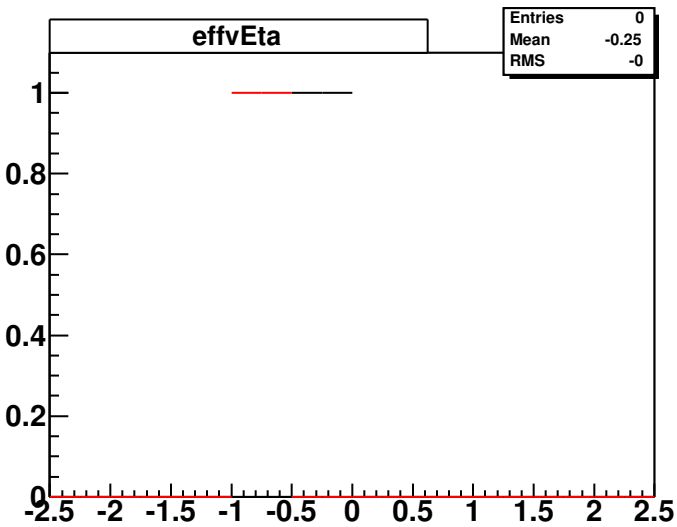


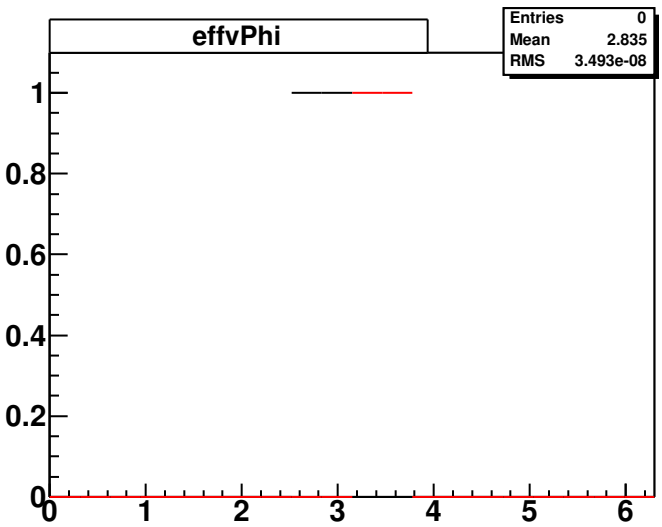


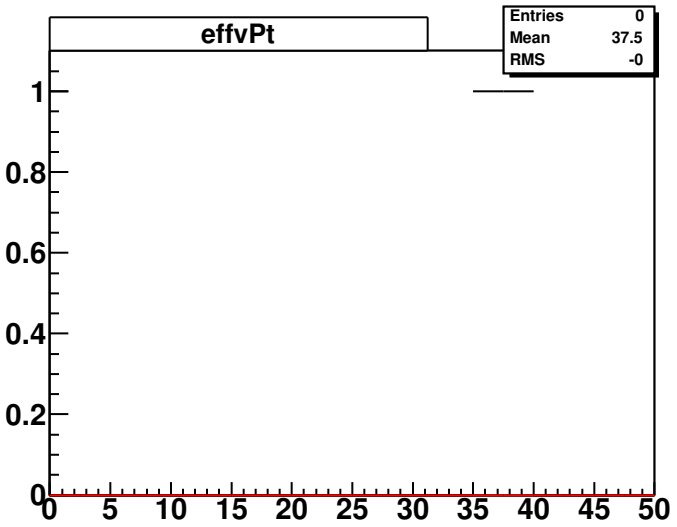


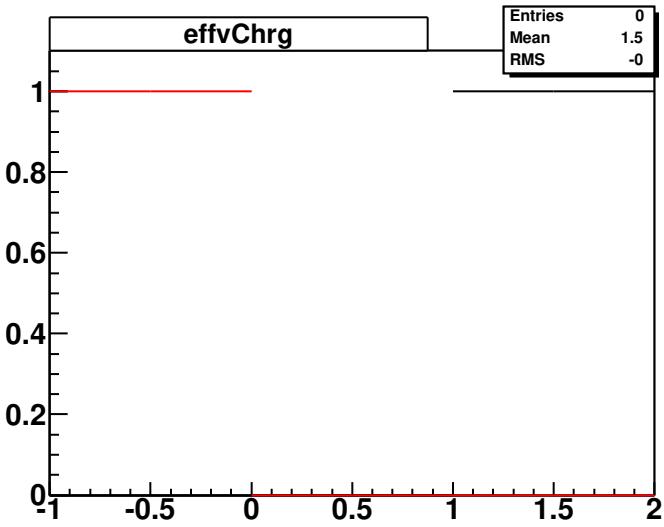


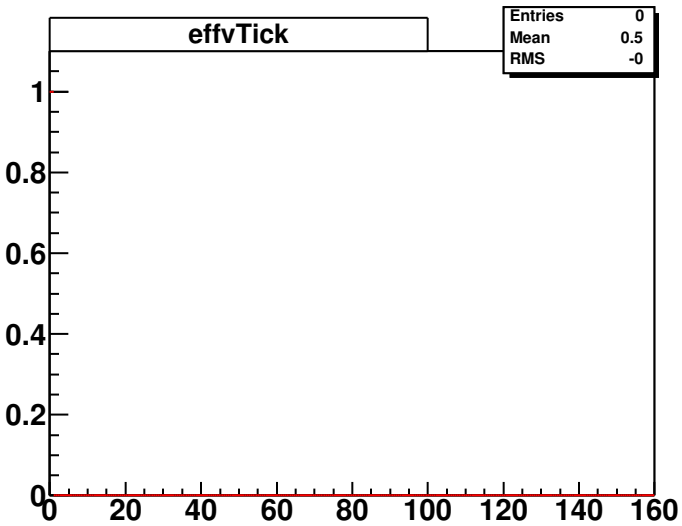
Track Hits (All)

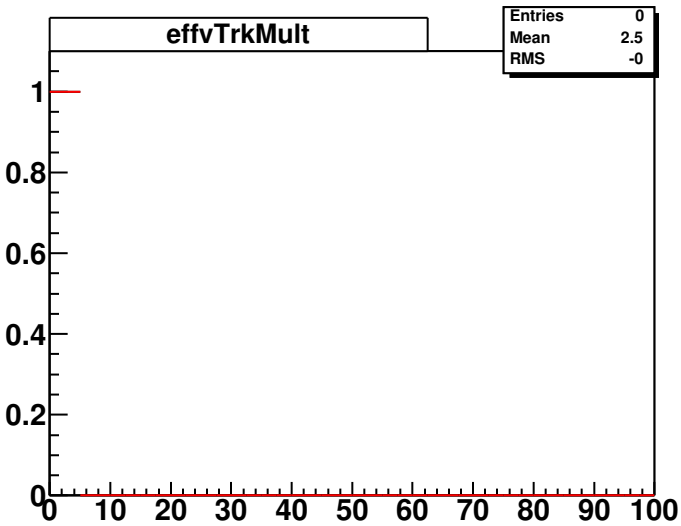




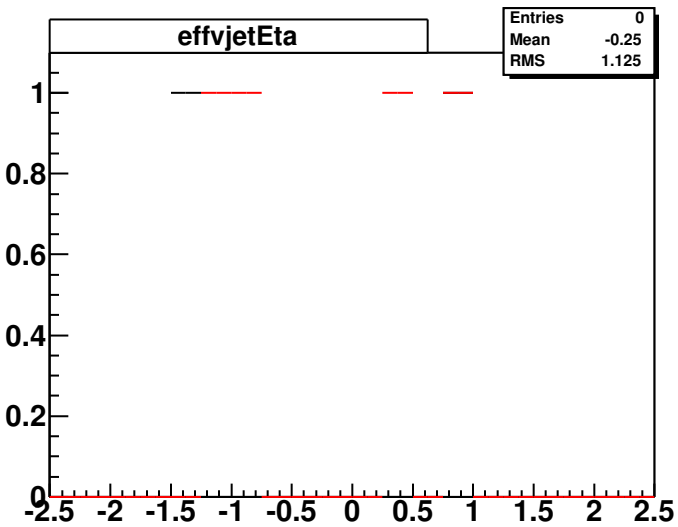


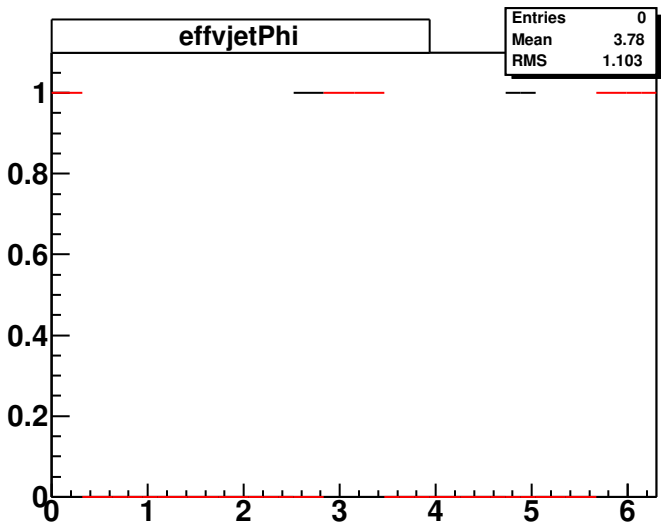


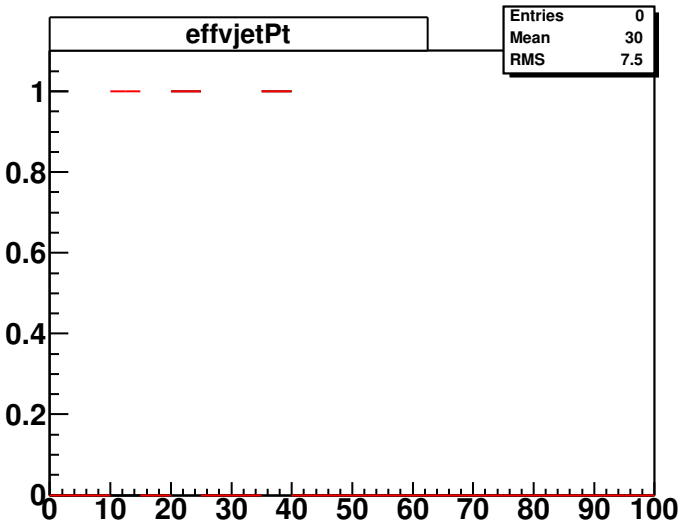




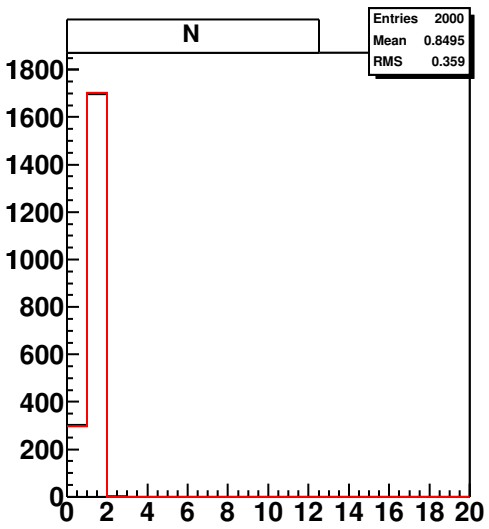
Tracking (Efficiency-Isolated)

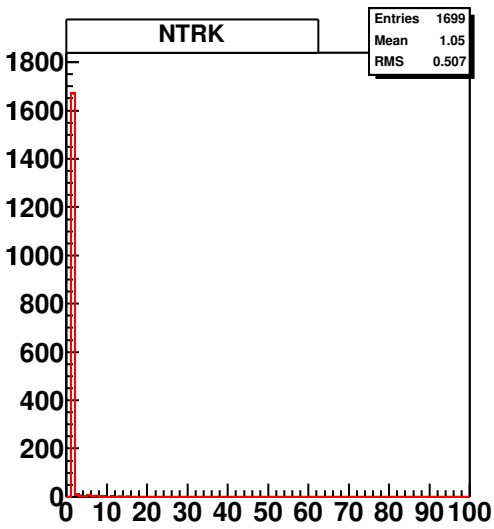


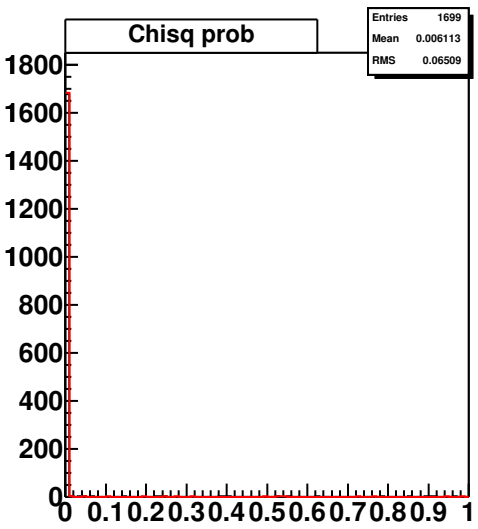


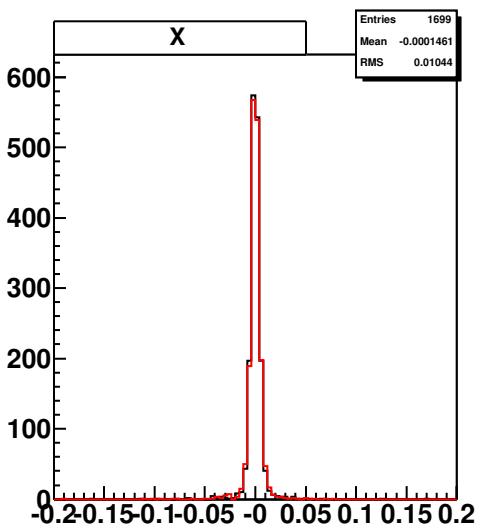


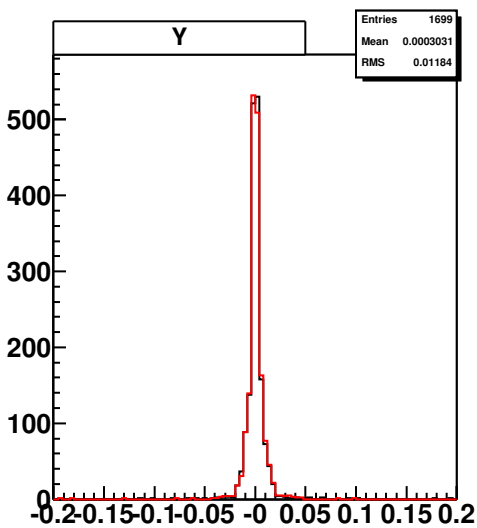
Tracking (Efficiency-InJets)

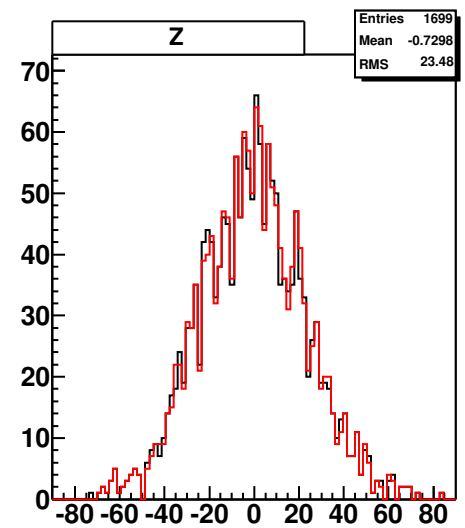


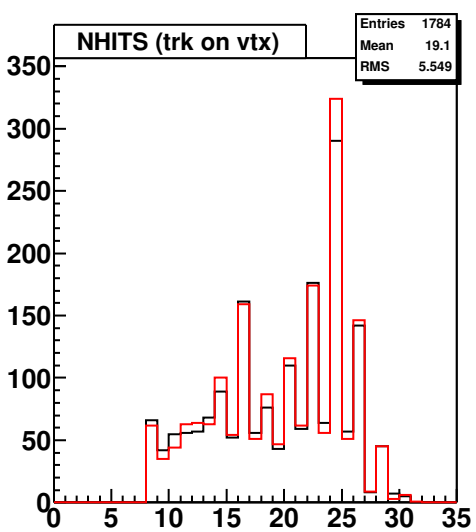


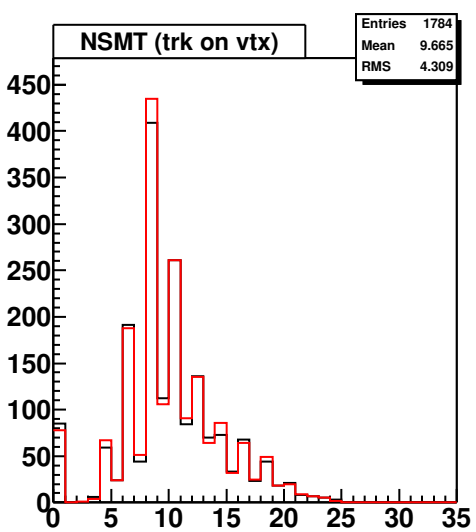


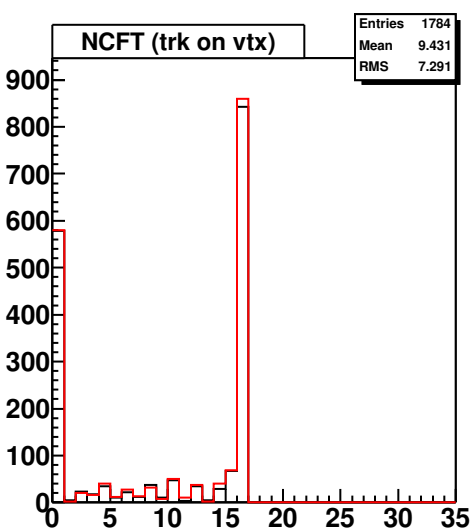




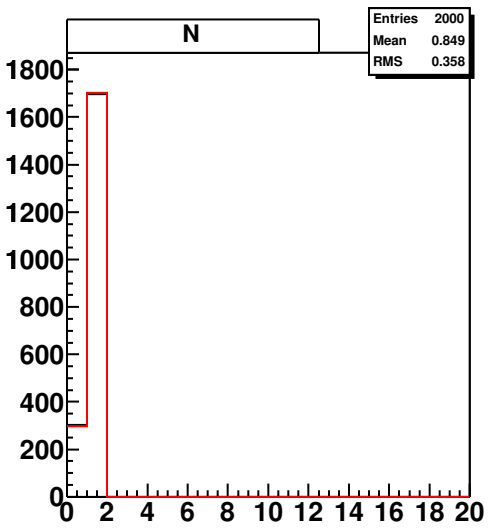


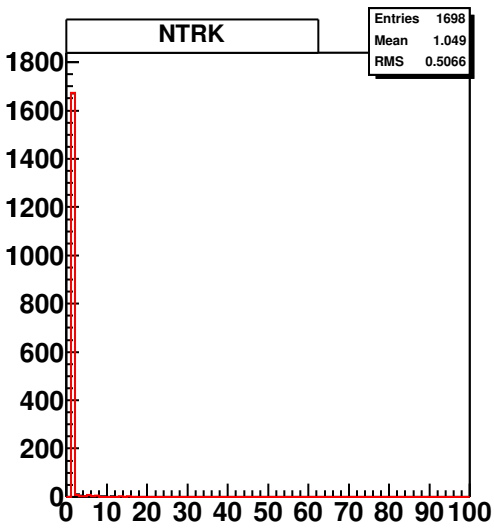


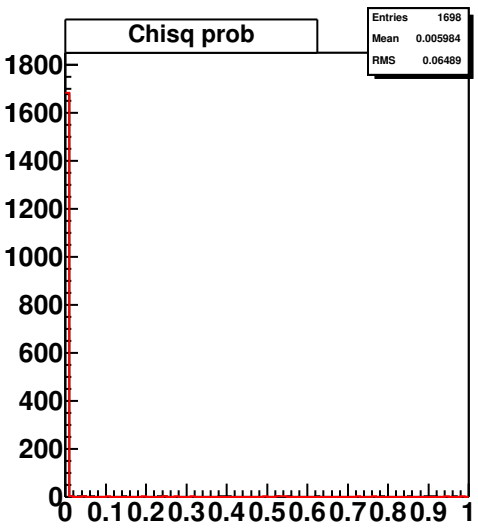


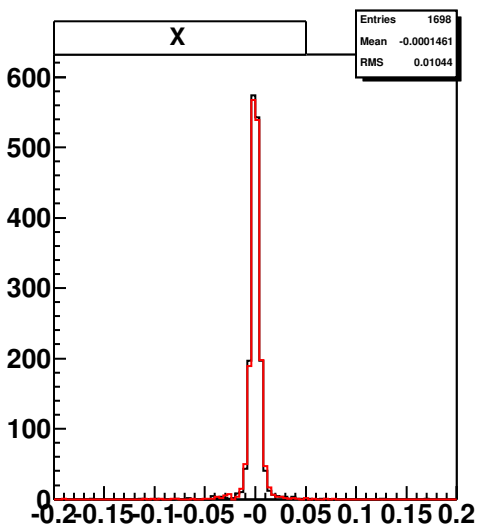


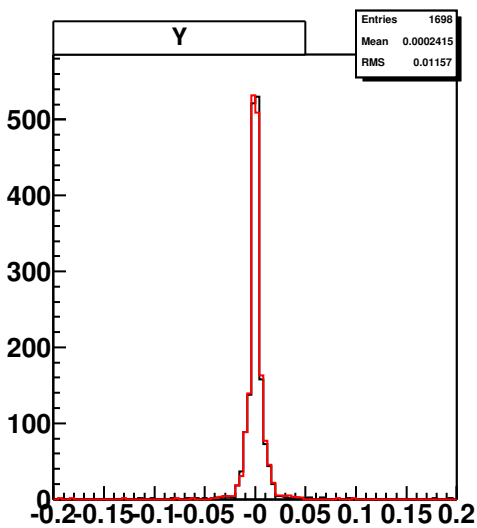
Vertices (Primary - all candidates)

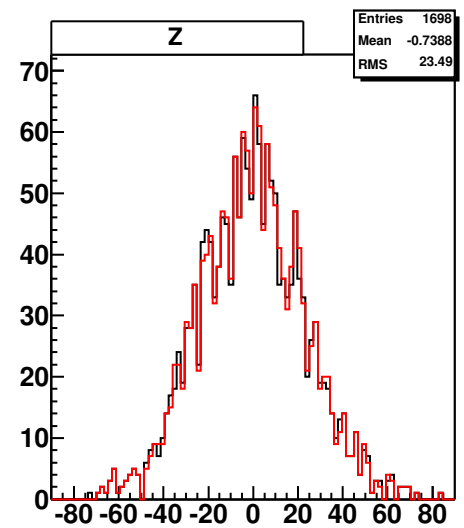


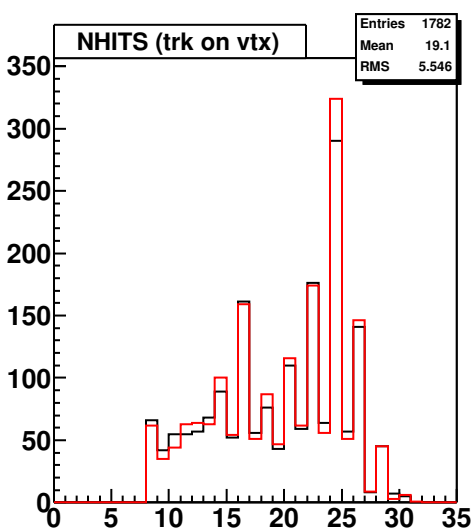


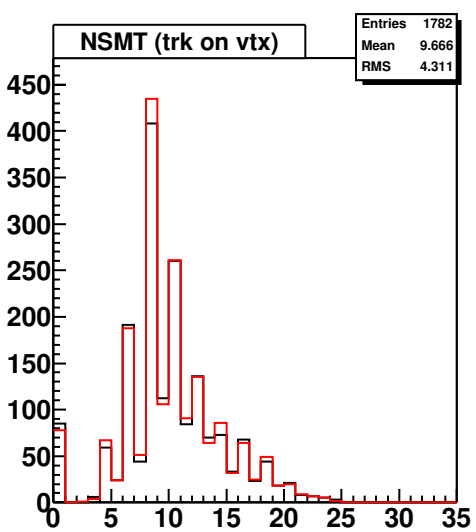


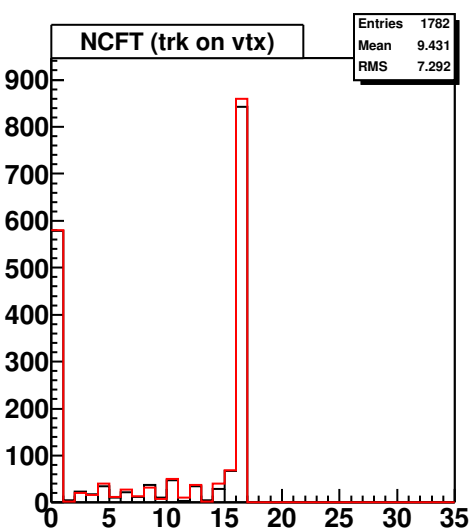




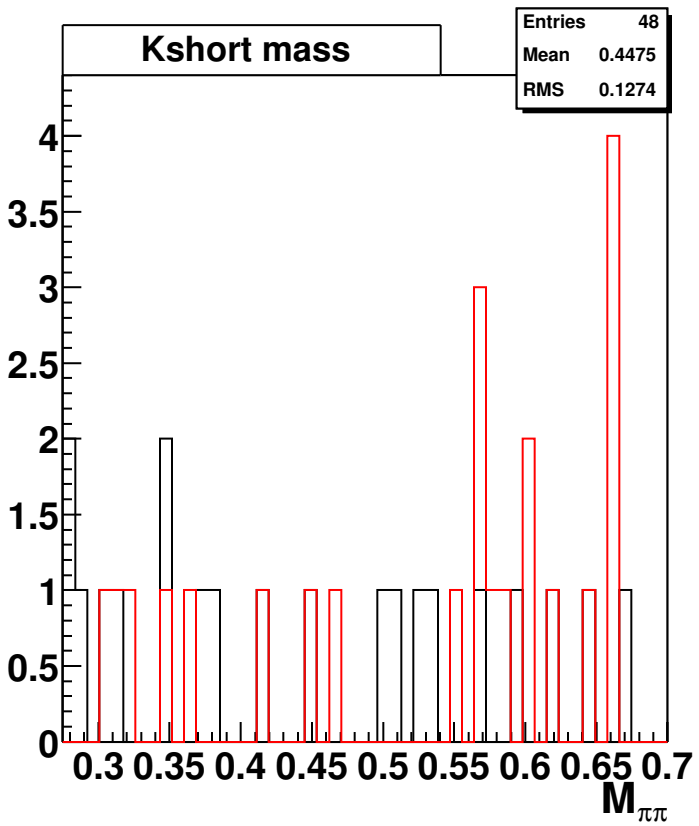


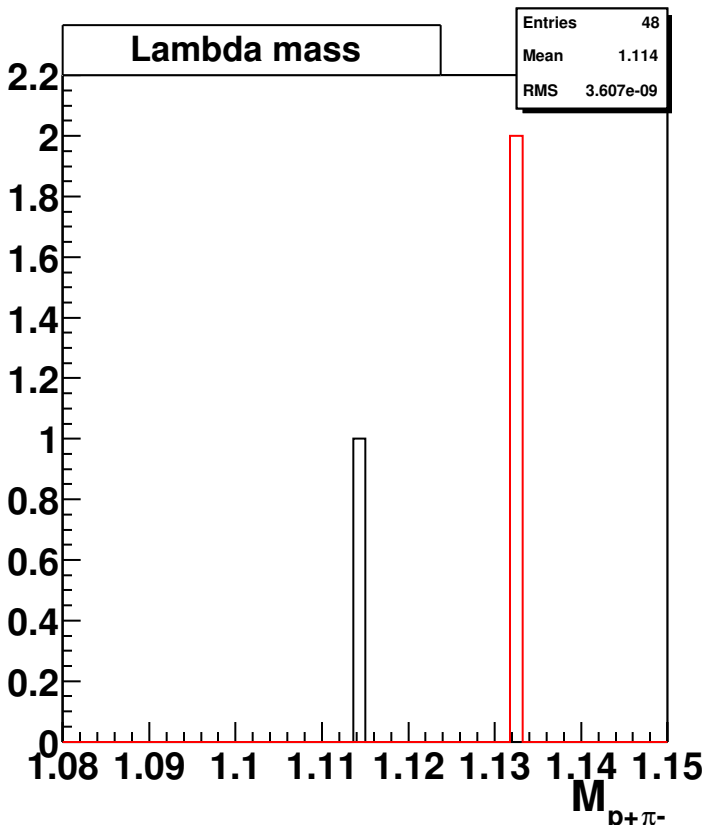


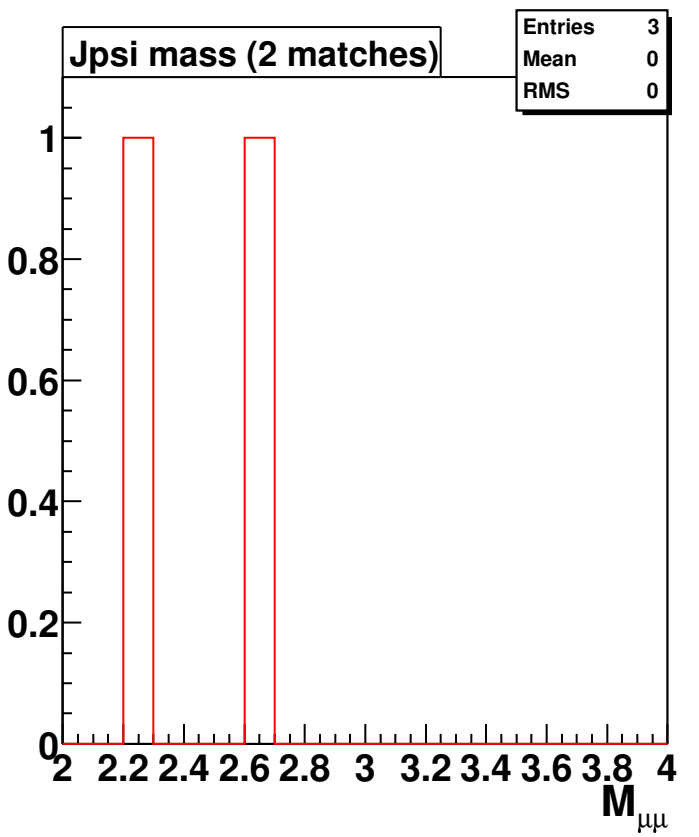


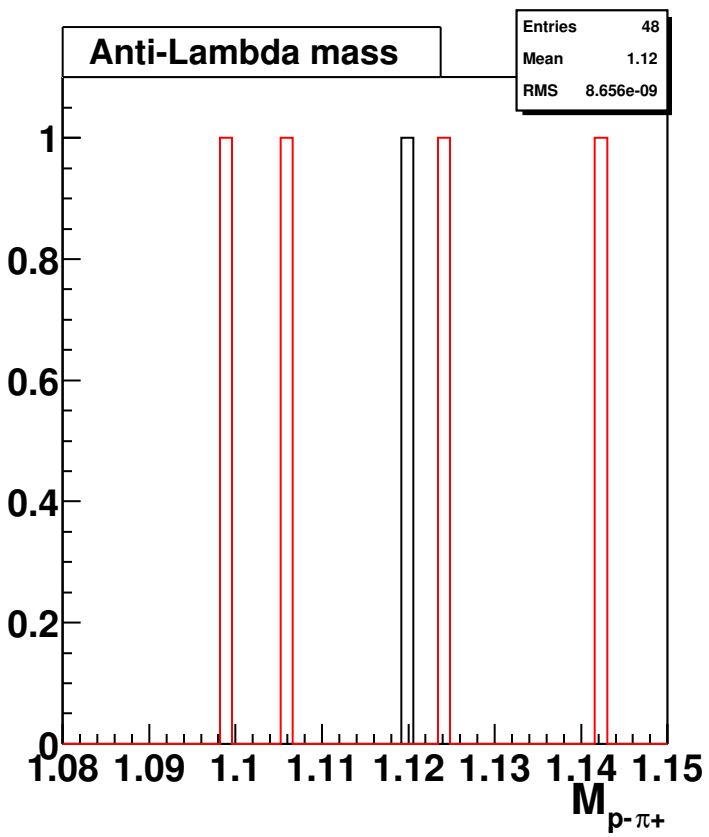


Vertices (Primary - best)

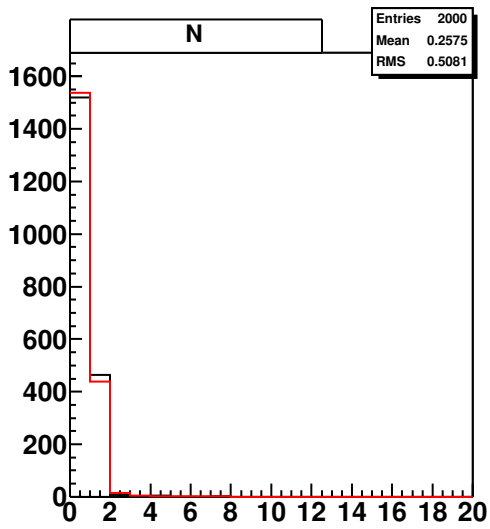

Kshort mass
Entries 48
Mean 0.4475
RMS 0.1274
0 0.5 1 1.5 2 2.5 3 3.5 4
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
Mππ

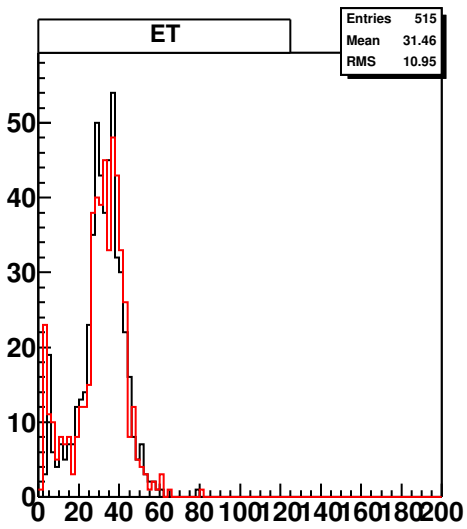

Lambda mass
Entries 48
Mean 1.114
RMS 3.607e-09
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2 2.2
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
Mp+π-

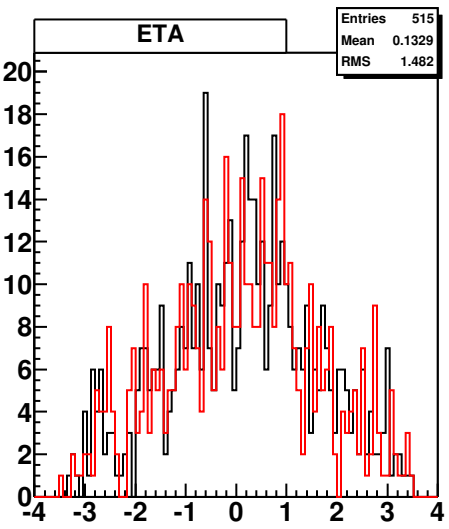

Jpsi mass (2 matches)
Entries 3
Mean 0
RMS 0
0 0.2 0.4 0.6 0.8 1
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
Mμμ

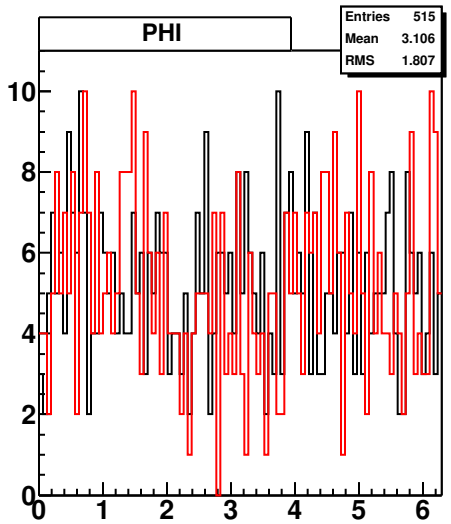

Anti-Lambda mass
Entries 48
Mean 1.12
RMS 8.656e-09
0 0.2 0.4 0.6 0.8 1
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
Mp-π+

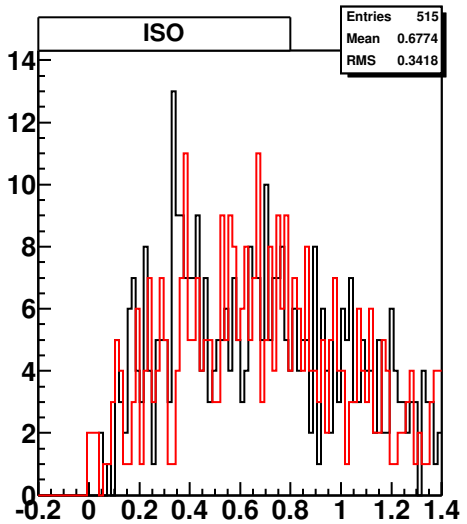
V0 (All)

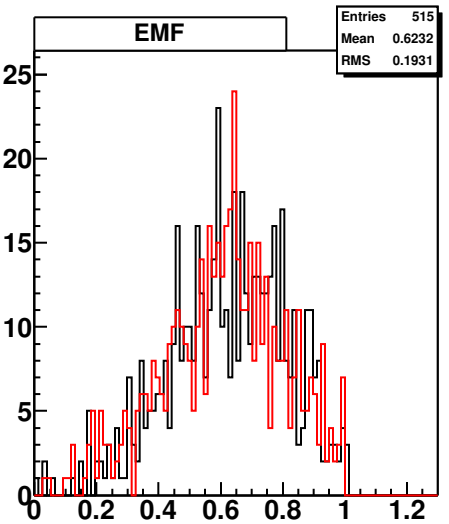


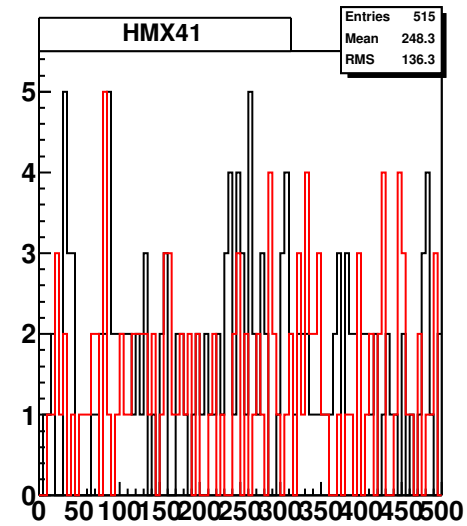


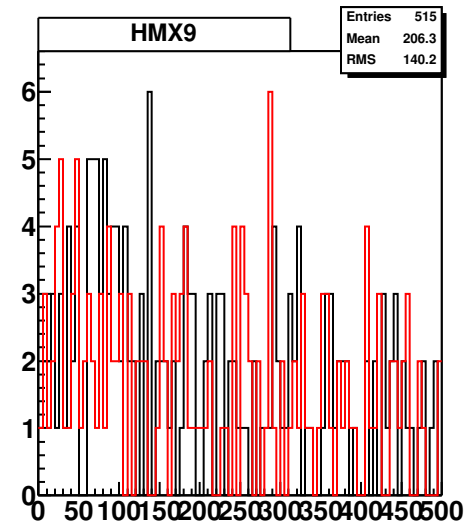


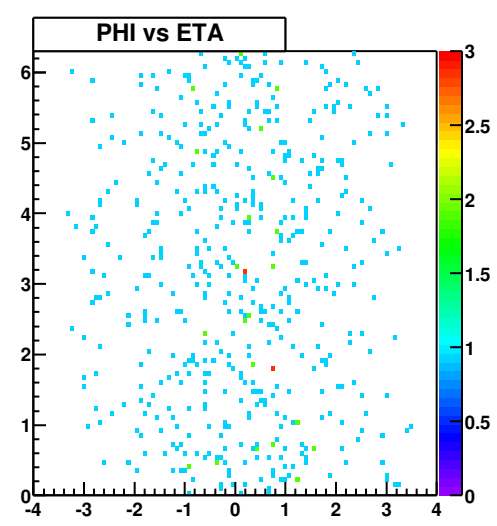




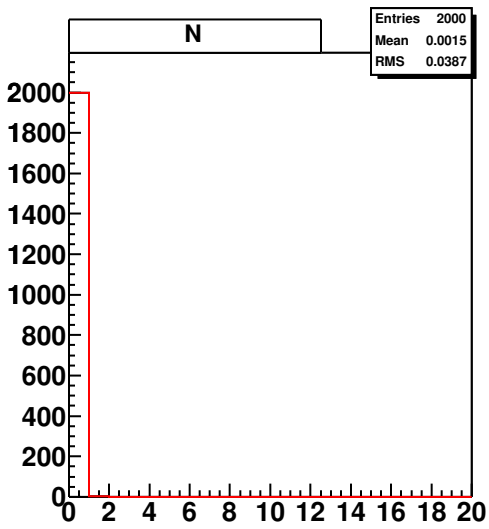


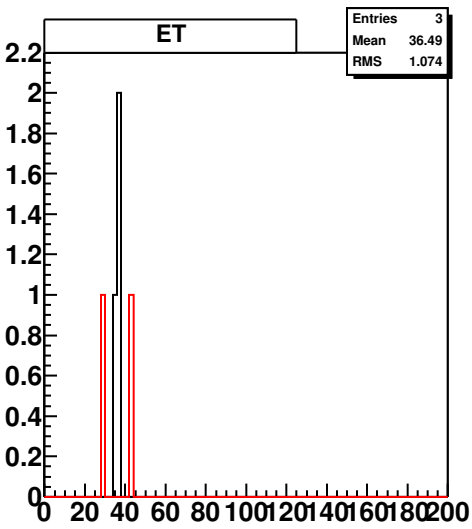


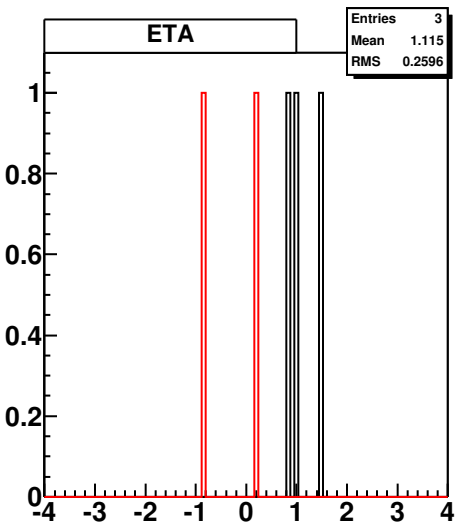


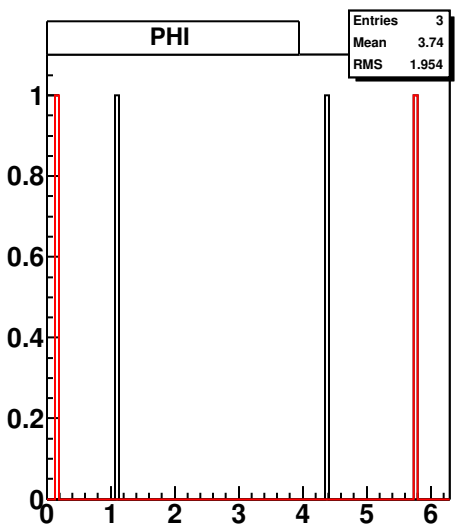


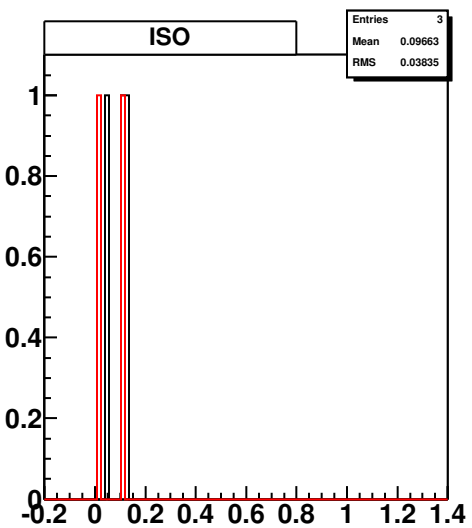
Electrons (SCONE All)

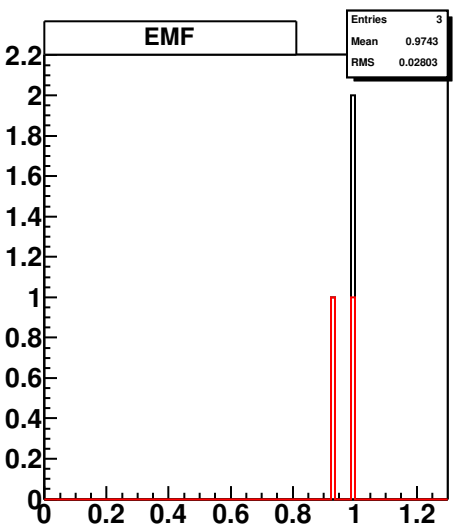


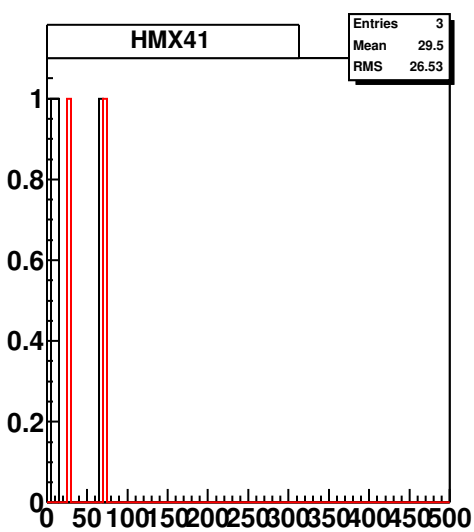


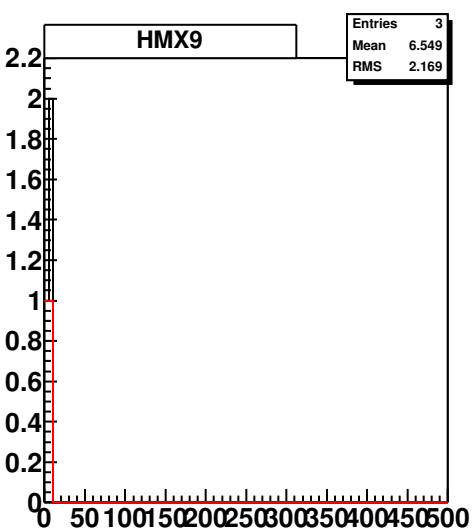


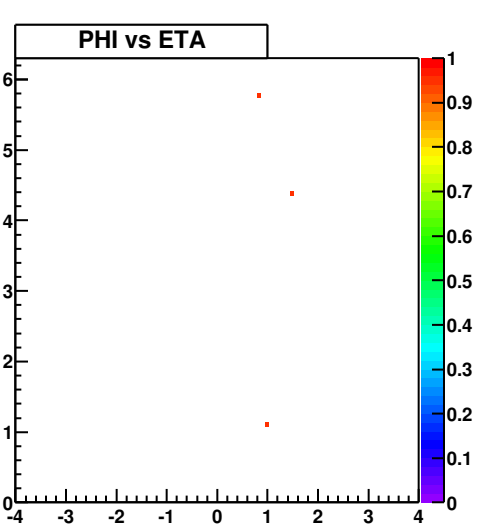




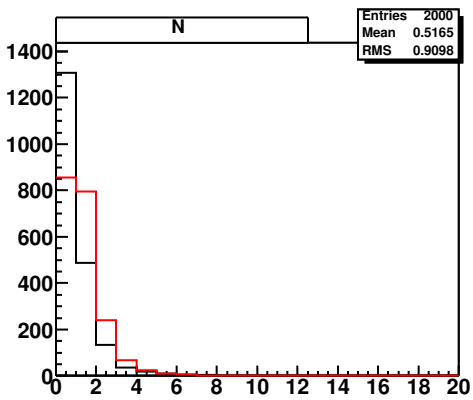


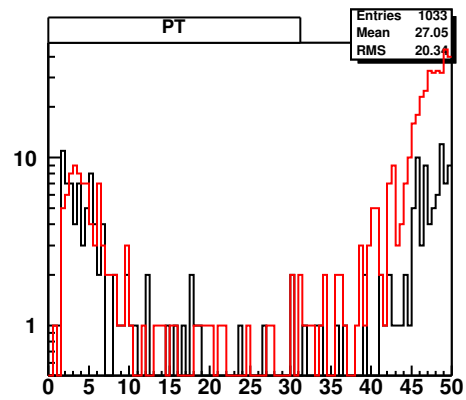


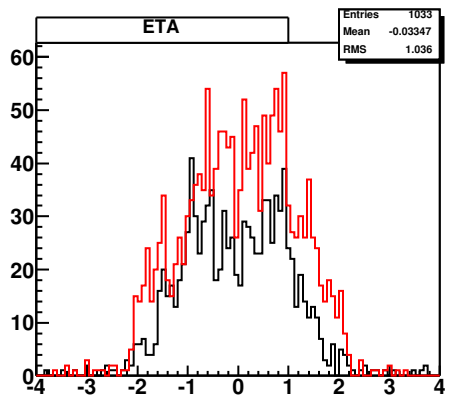


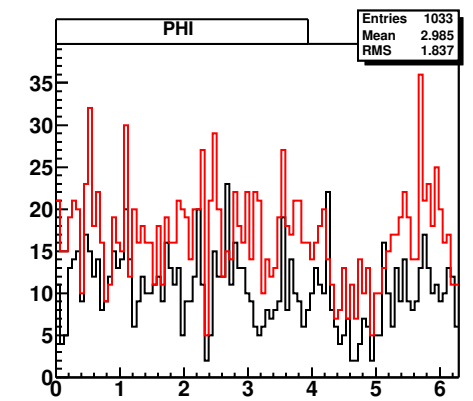


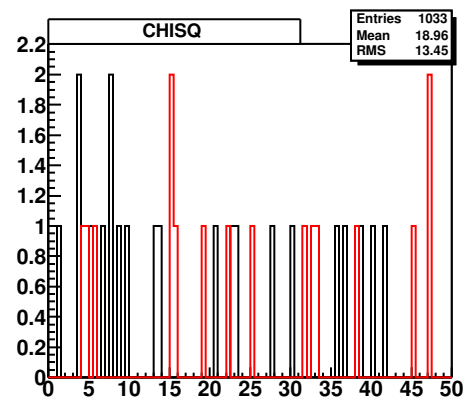
Electrons (SCONE Tight)

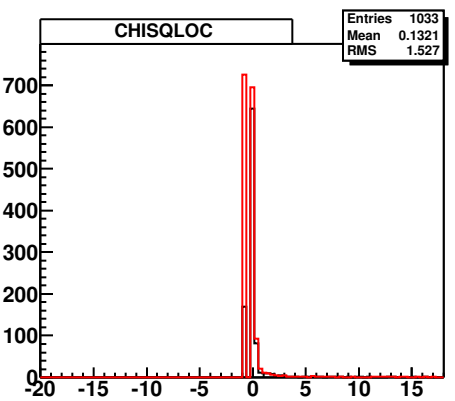

N
Entries 2000
Mean 0.5165
RMS 0.9098

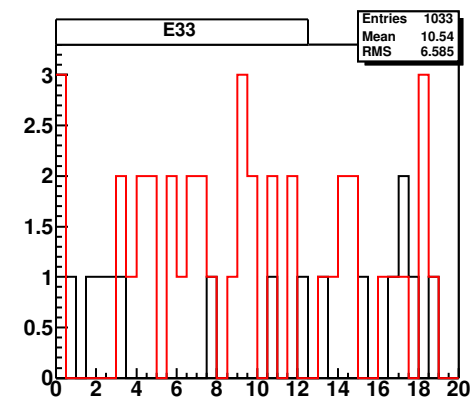

PT
Entries 1033
Mean 27.05
RMS 20.34

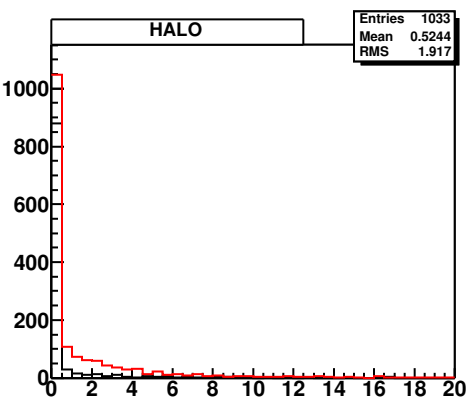

ETA
Entries 1033
Mean -0.03347
RMS 1.036

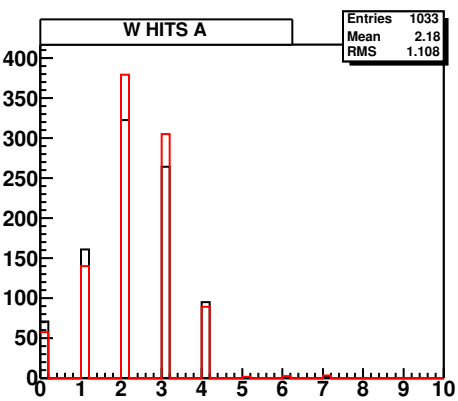

PHI
Entries 1033
Mean 2.985
RMS 1.837

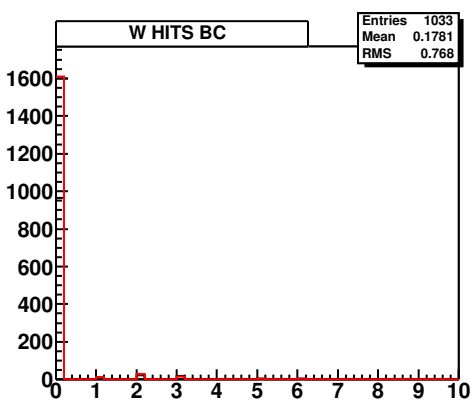

CHISQ
Entries 1033
Mean 18.96
RMS 13.45

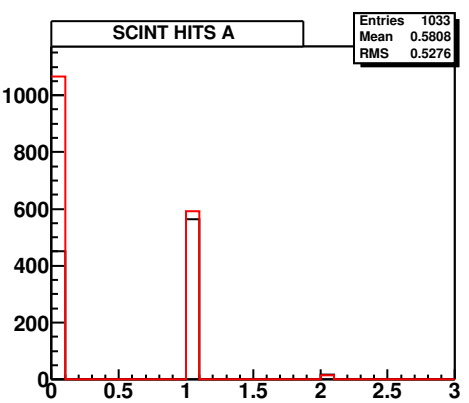

CHISQLOC
Entries 1033
Mean 0.1321
RMS 1.527

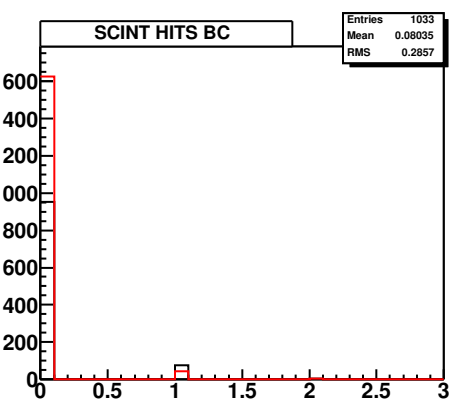

E33
Entries 1033
Mean 10.54
RMS 6.585


HALO
Entries 1033
Mean 0.5244
RMS 1.917

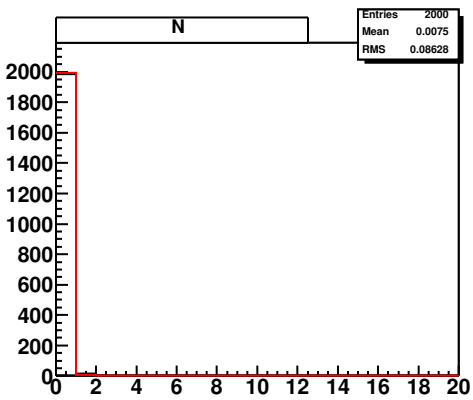

W HITS A
Entries 1033
Mean 2.18
RMS 1.108

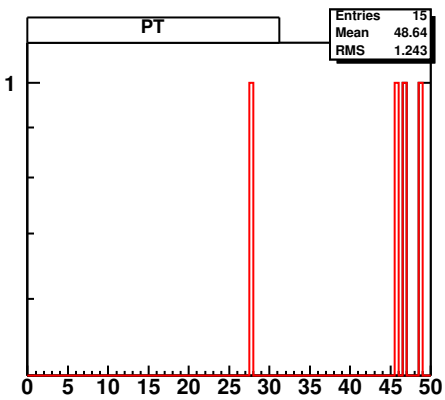

W HITS BC
Entries 1033
Mean 0.1781
RMS 0.768

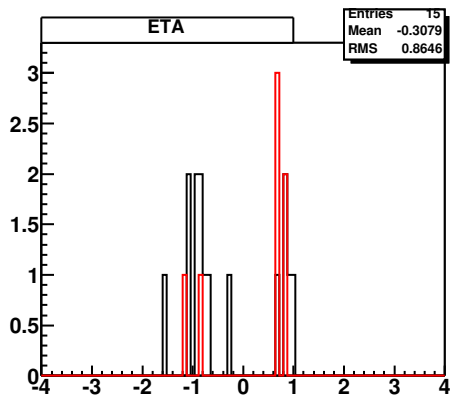

SCINT HITS A
Entries 1033
Mean 0.5808
RMS 0.5276

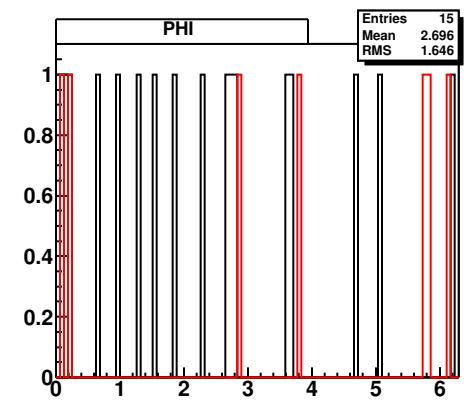

SCINT HITS BC
Entries 1033
Mean 0.08035
RMS 0.2857

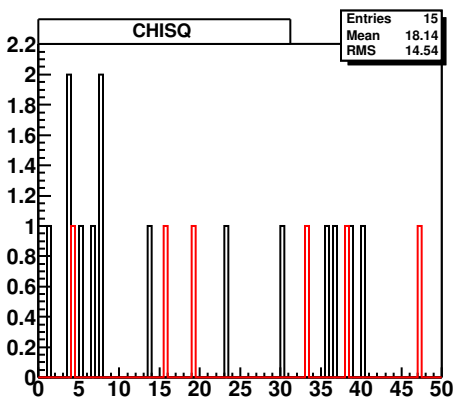
Muons (All)

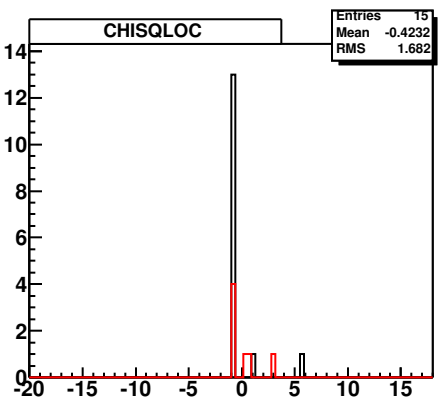


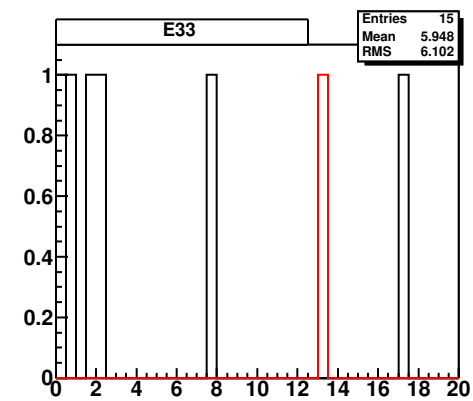


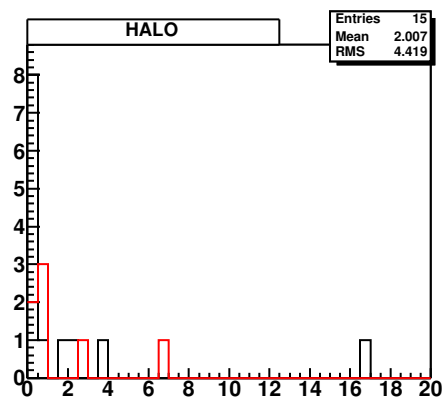


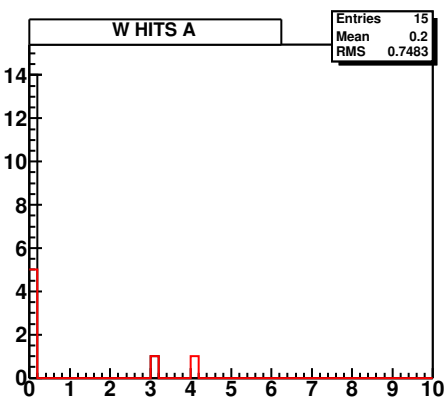


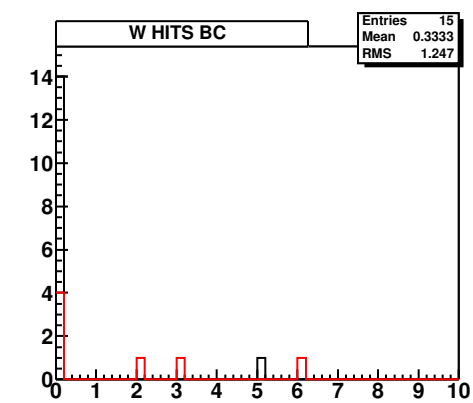


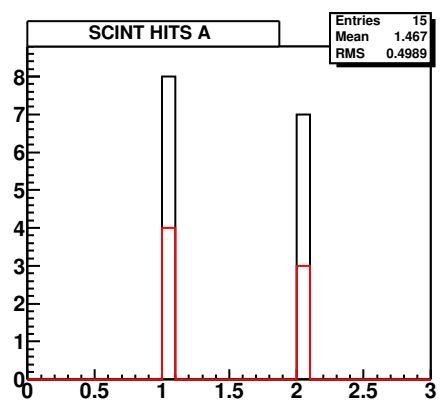


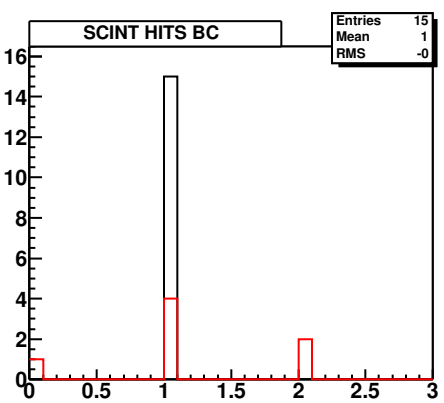




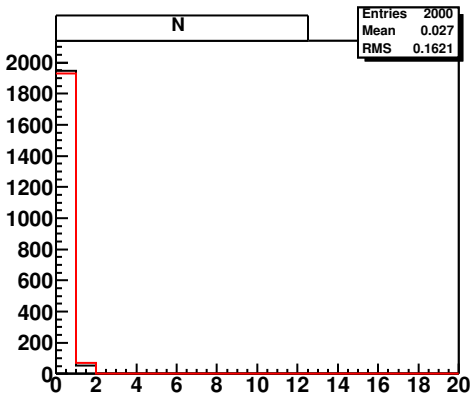


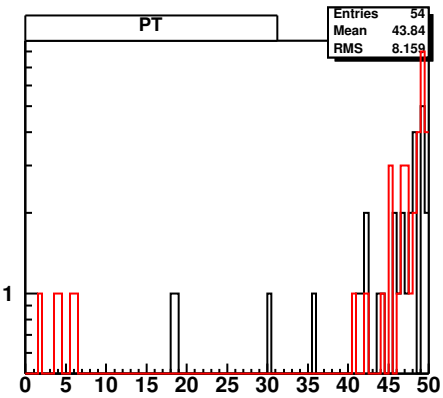


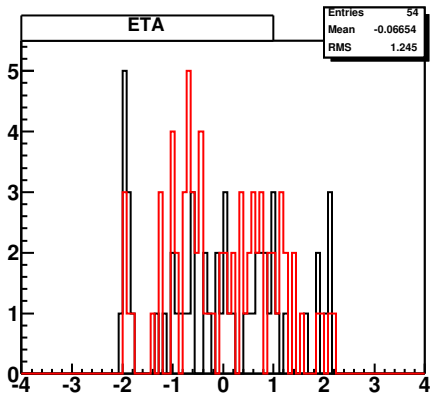


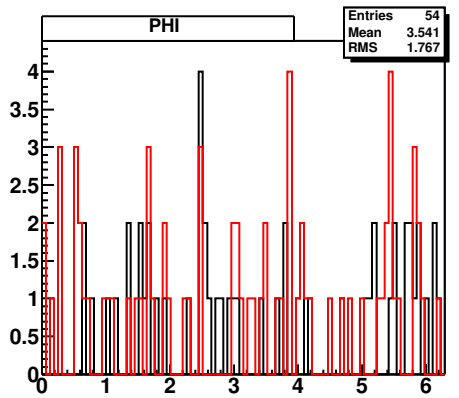


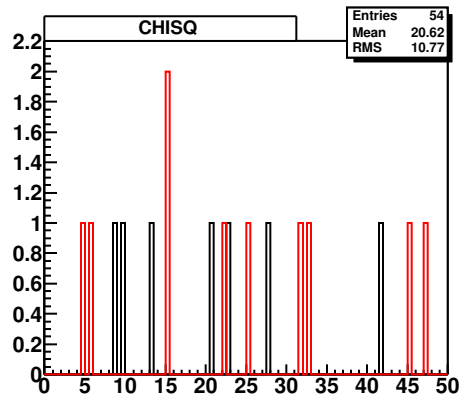
Muons (Matched)

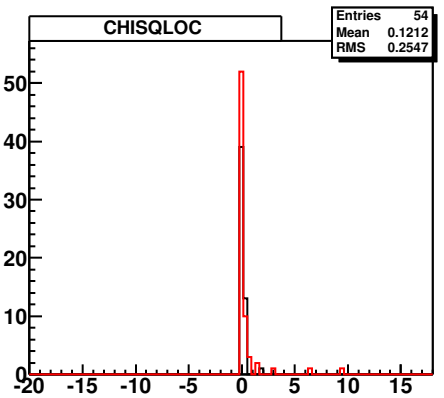

N
Entries 2000
Mean 0.027
RMS 0.1621

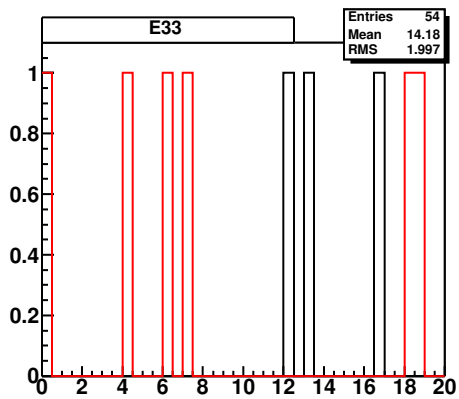

PT
Entries 54
Mean 43.84
RMS 8.159

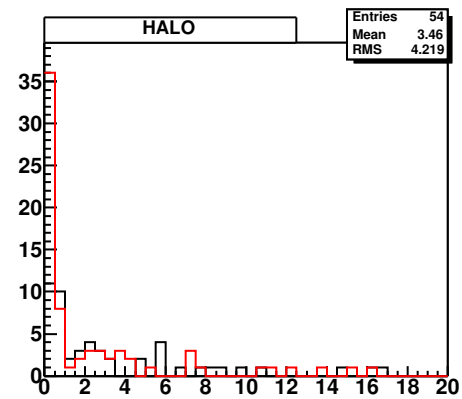

ETA
Entries 54
Mean -0.06654
RMS 1.245

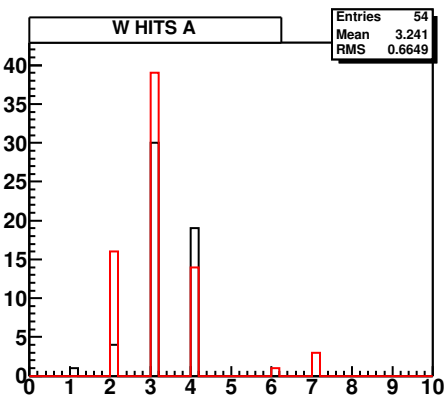

PHI
Entries 54
Mean 3.541
RMS 1.767

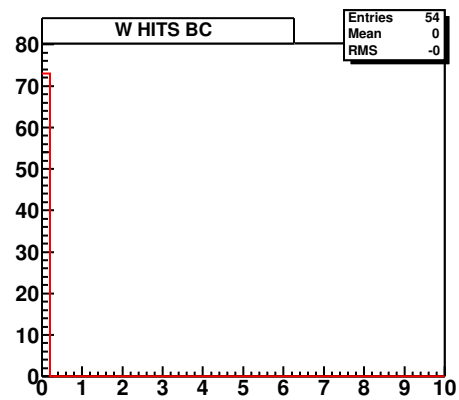

CHISQ
Entries 54
Mean 20.62
RMS 10.77

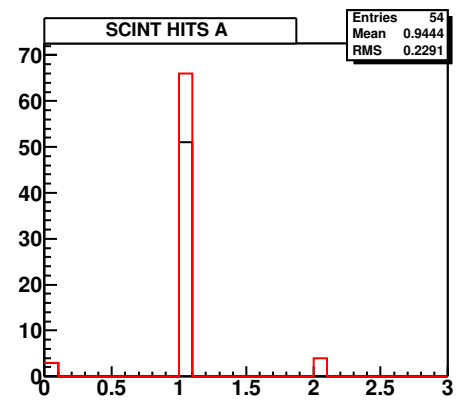

CHISQLOC
Entries 54
Mean 0.1212
RMS 0.2547

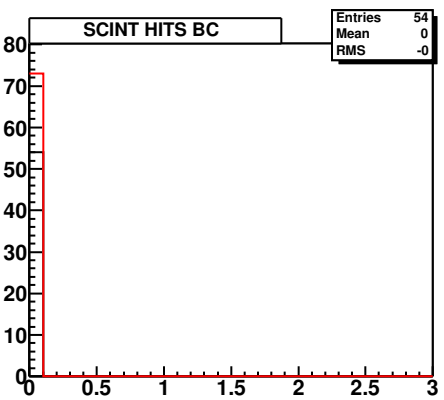

E33
Entries 54
Mean 14.18
RMS 1.997


HALO
Entries 54
Mean 3.46
RMS 4.219

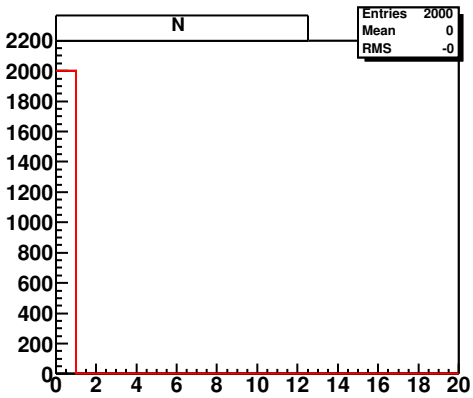

W HITS A
Entries 54
Mean 3.241
RMS 0.6649

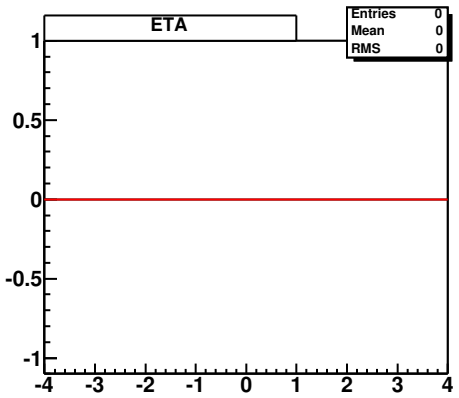

W HITS BC
Entries 54
Mean 0
RMS -0

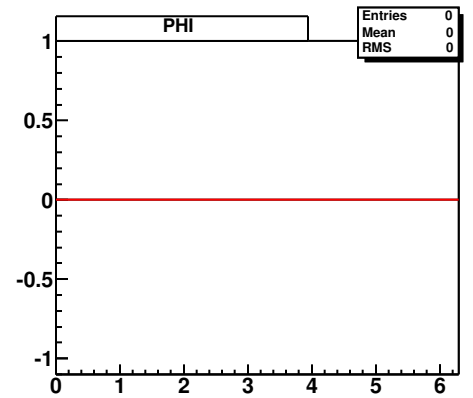

SCINT HITS A
Entries 54
Mean 0.9444
RMS 0.2291

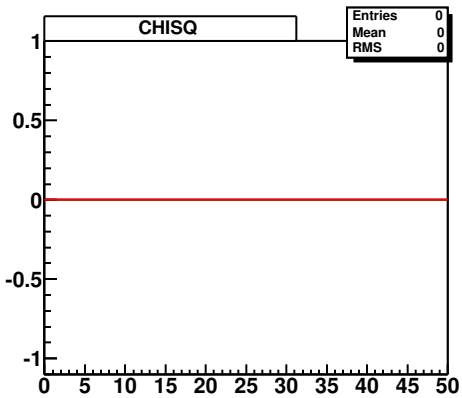

SCINT HITS BC
Entries 54
Mean 0
RMS -0

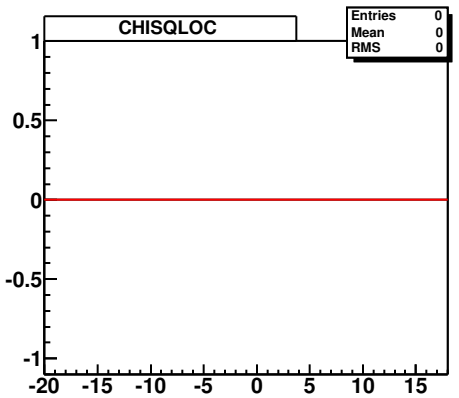
Muons (Astub)

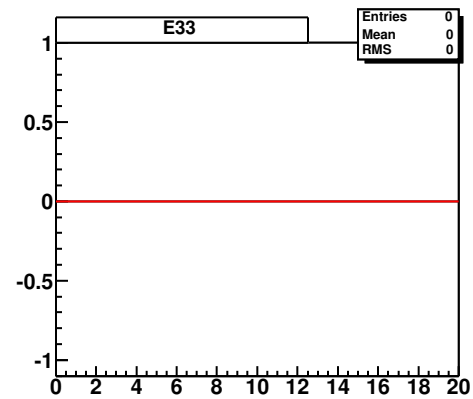


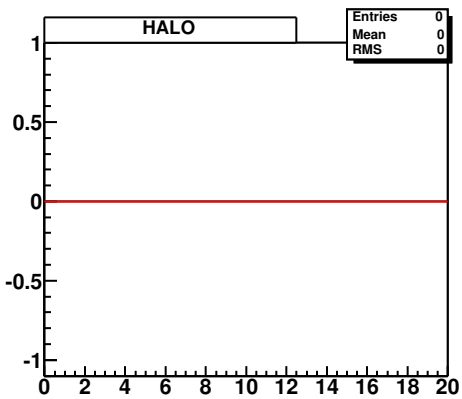


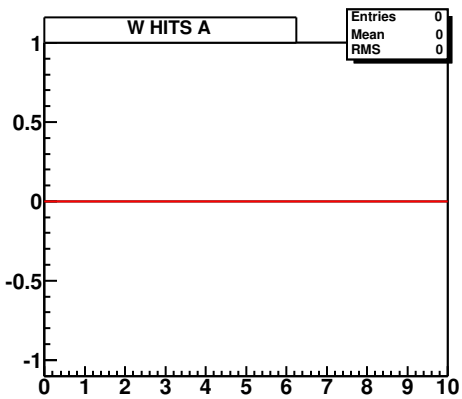


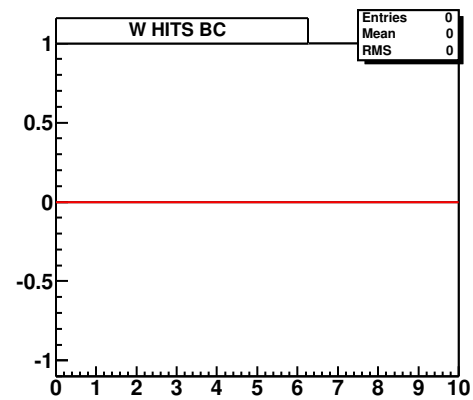


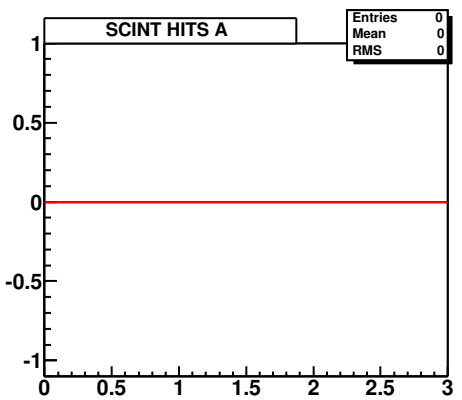


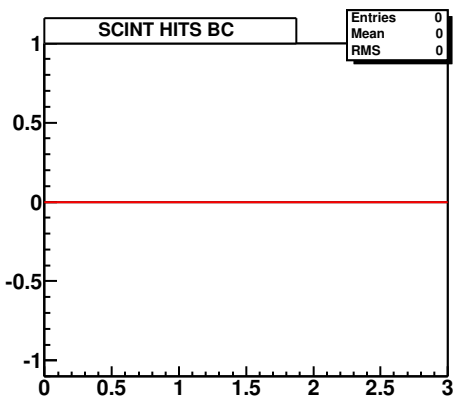




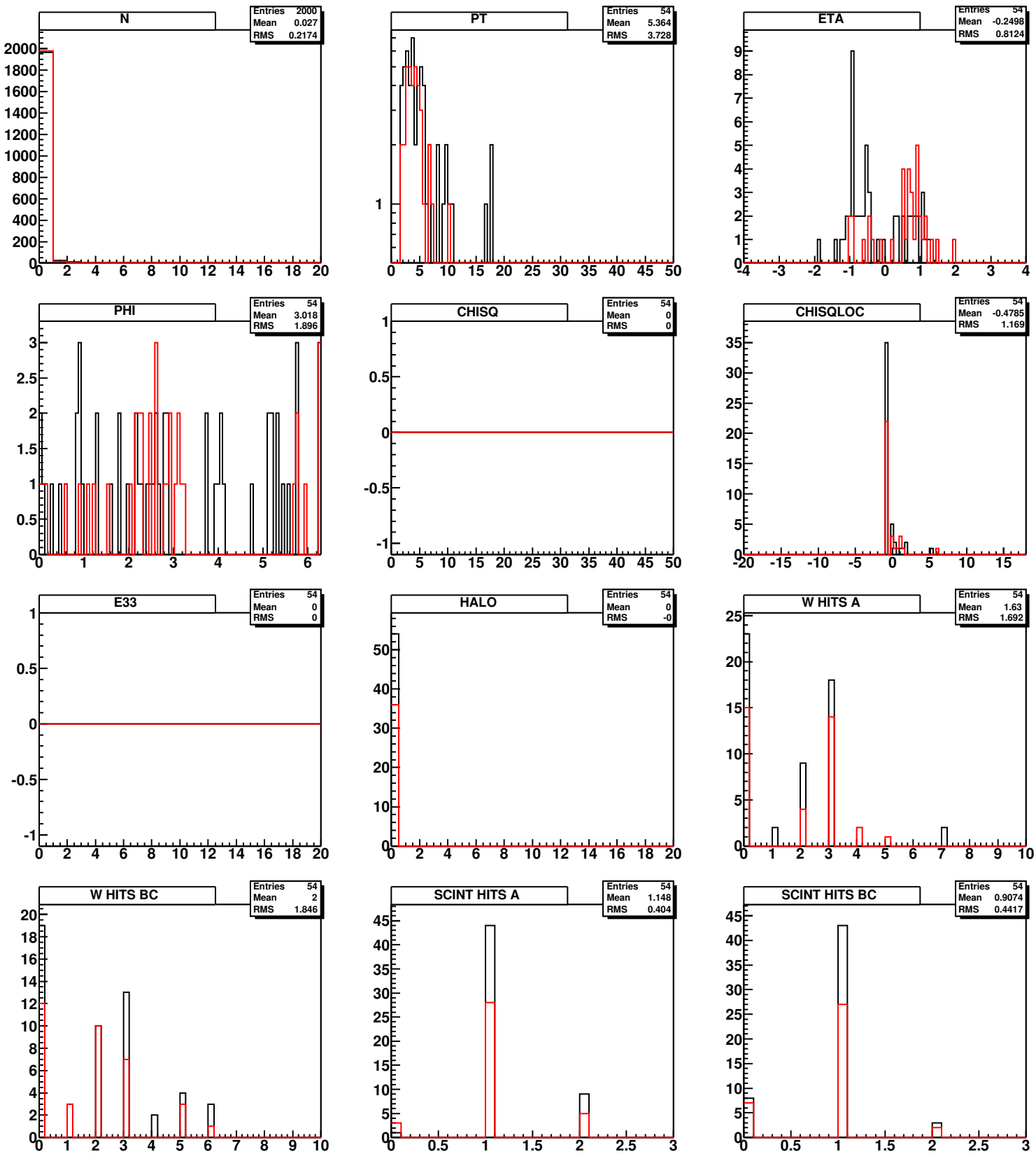




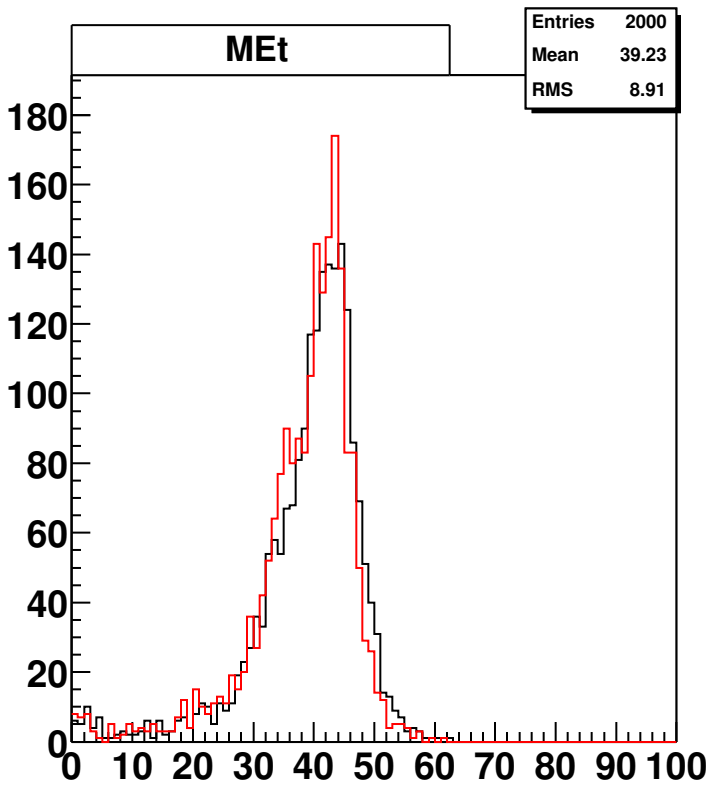


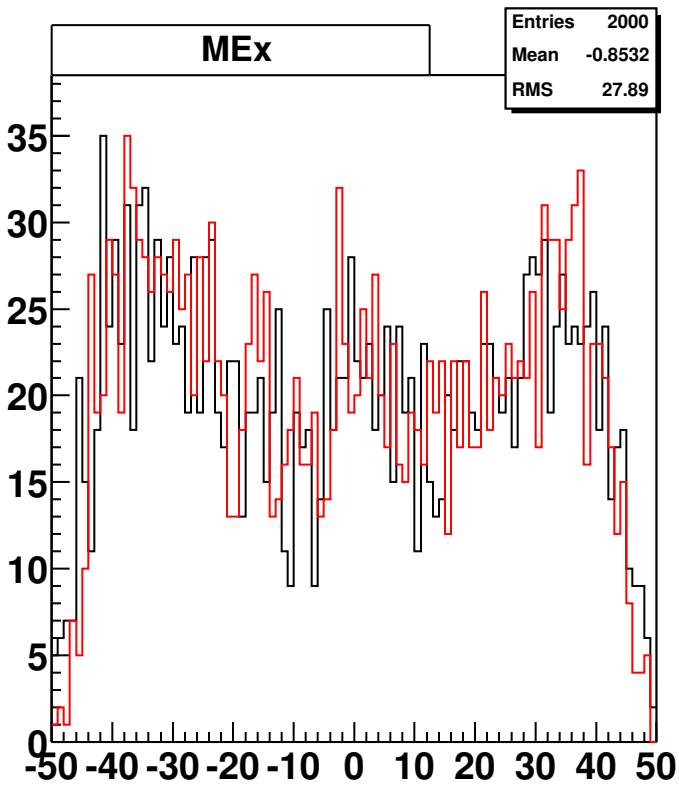


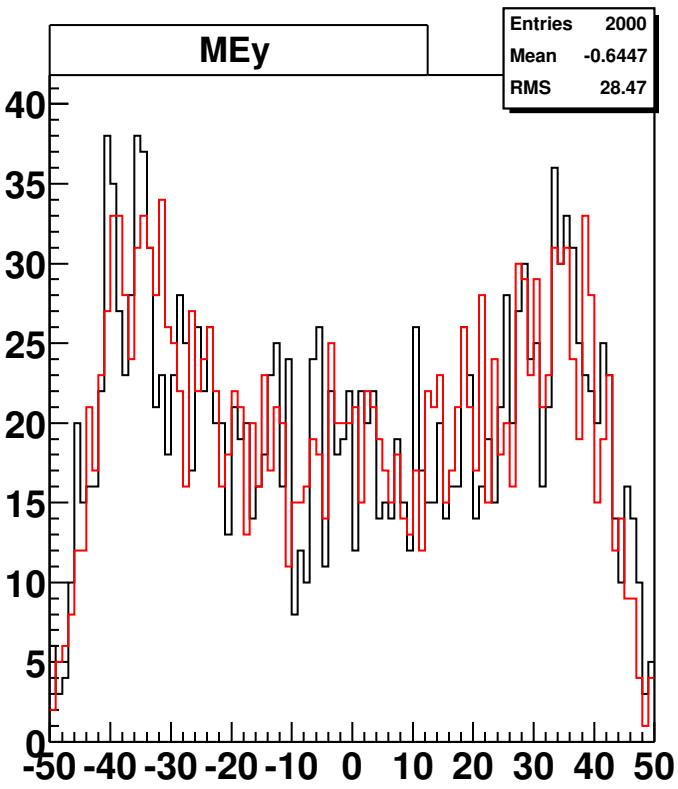
Muons (BCstub)



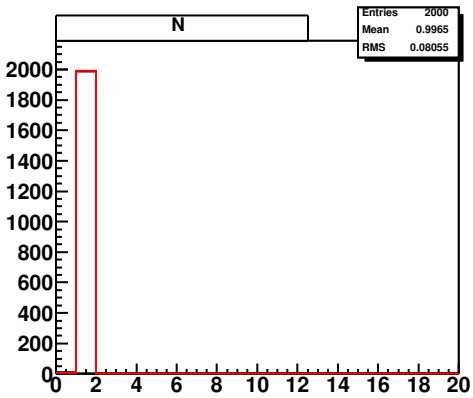
Muons (Unmatched)

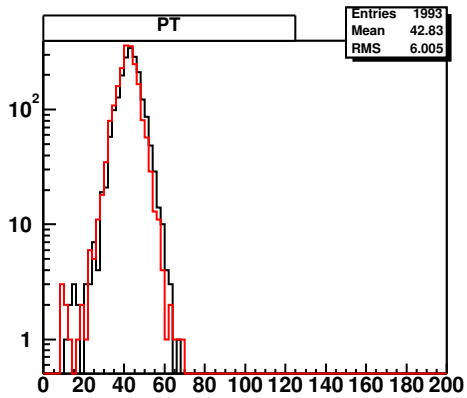

MEt
Entries 2000
Mean 39.23
RMS 8.91
0 10 20 30 40 50 60 70 80 90 100
0 20 40 60 80 100 120 140 160 180

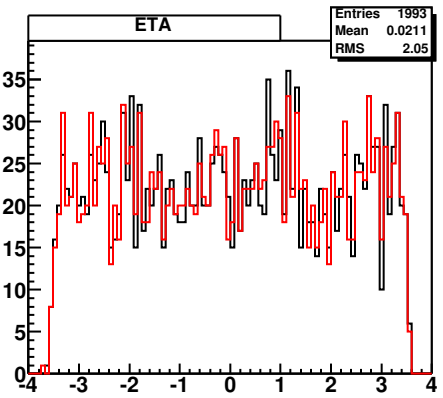

MEx
Entries 2000
Mean -0.8532
RMS 27.89
-50 -40 -30 -20 -10 0 10 20 30 40 50
0 5 10 15 20 25 30 35

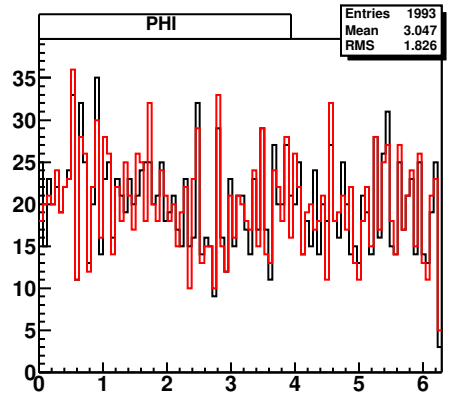

MEy
Entries 2000
Mean -0.6447
RMS 28.47
-50 -40 -30 -20 -10 0 10 20 30 40 50
0 5 10 15 20 25 30 35 40

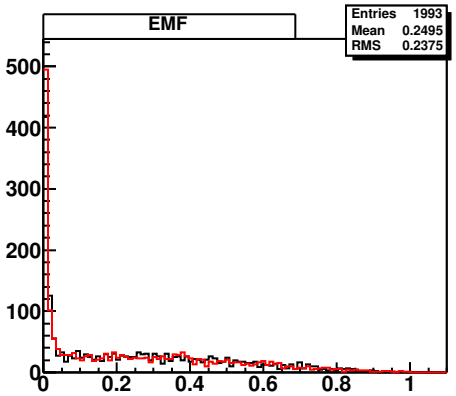
Met (No cuts)

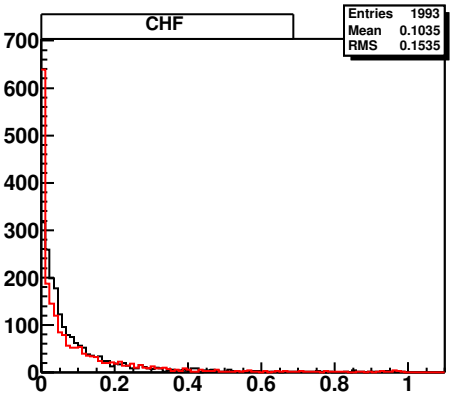


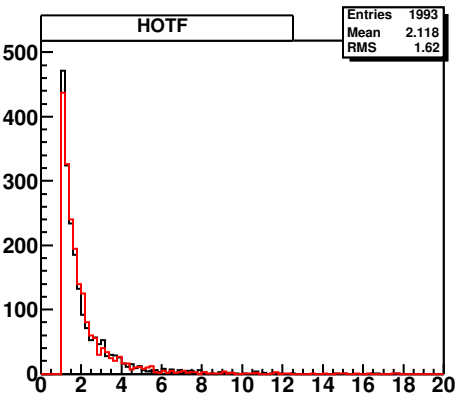


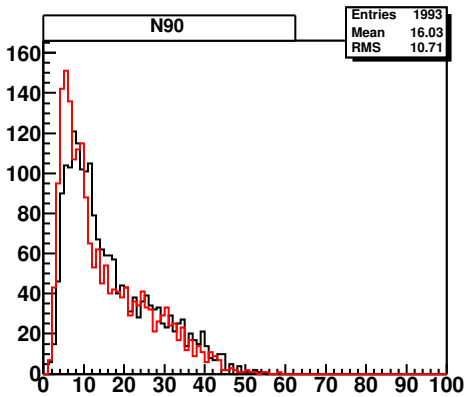


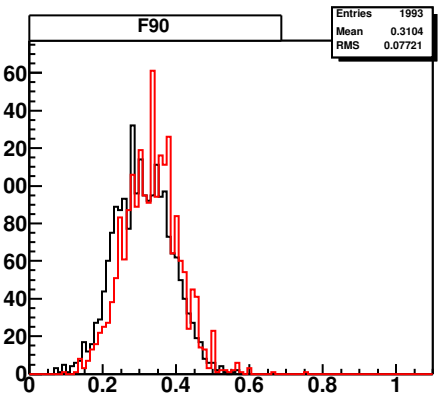


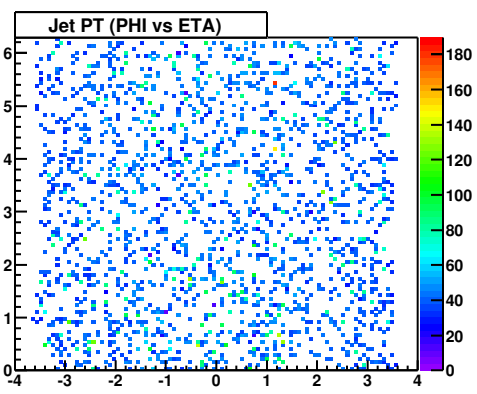




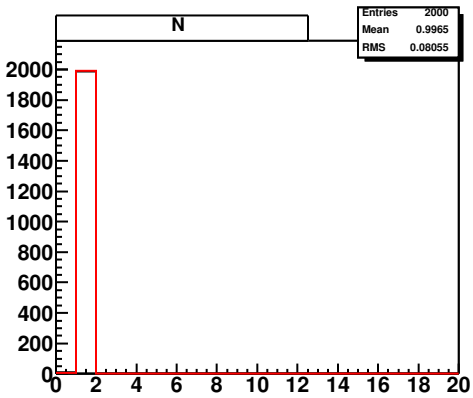


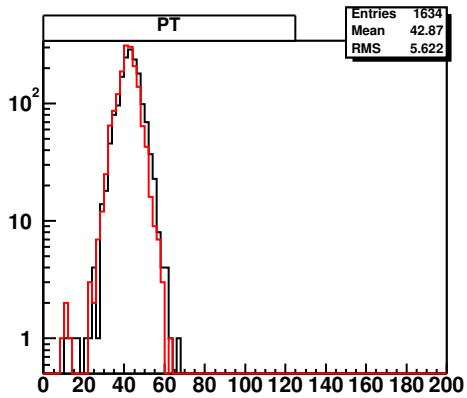


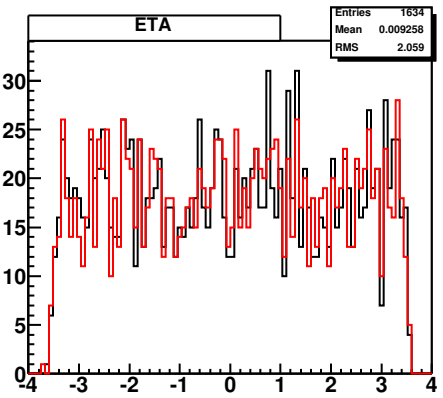


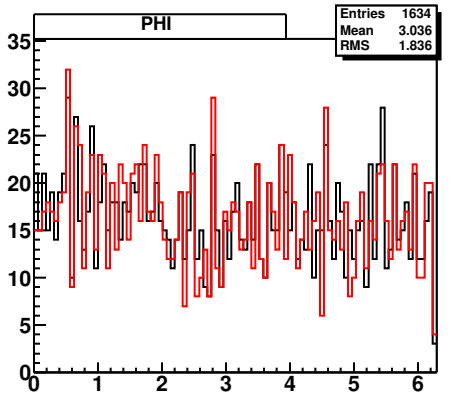


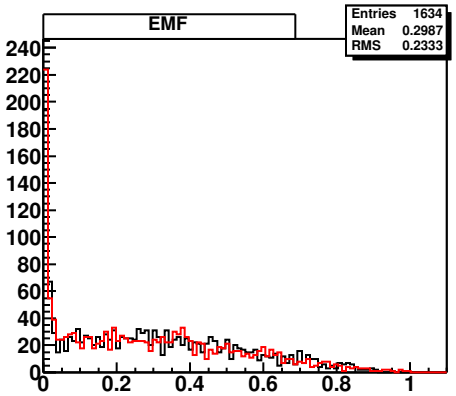
Jets (Cone R 0.7 (no cuts))

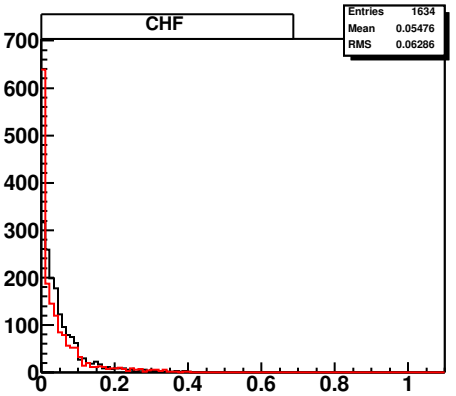


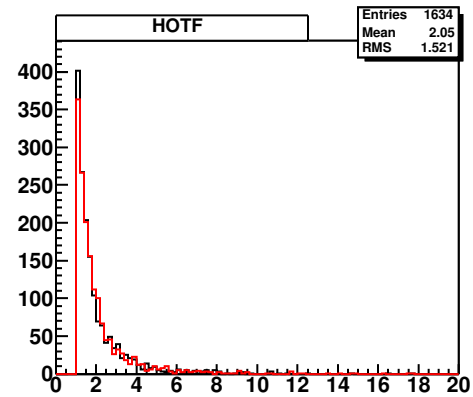


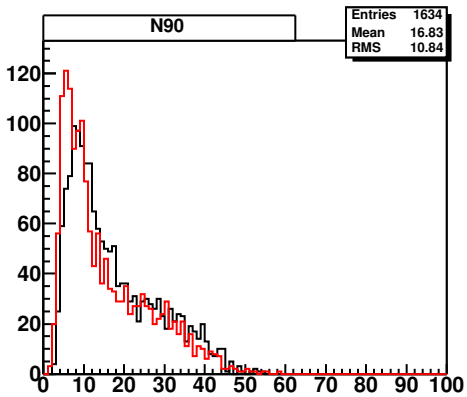


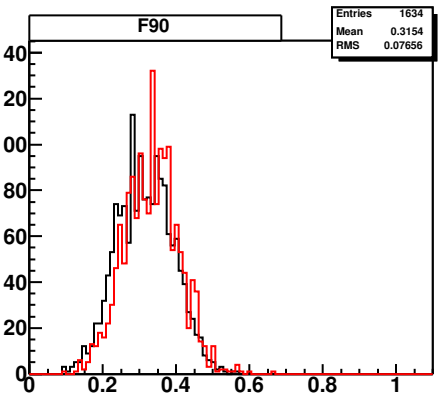


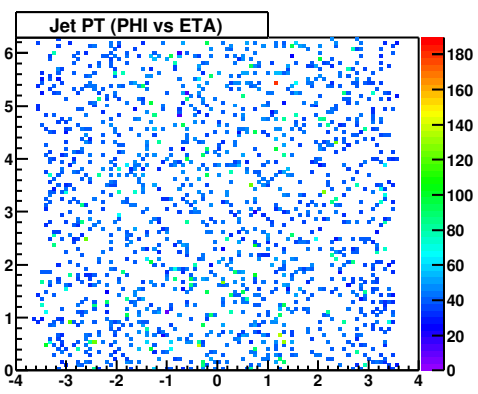




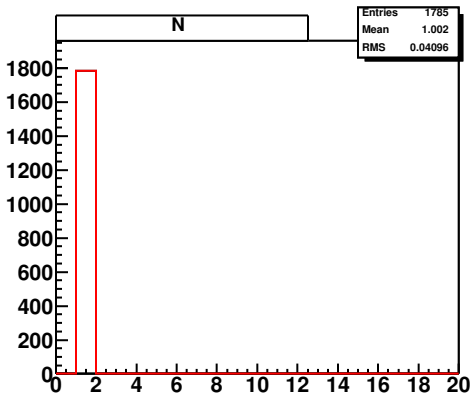


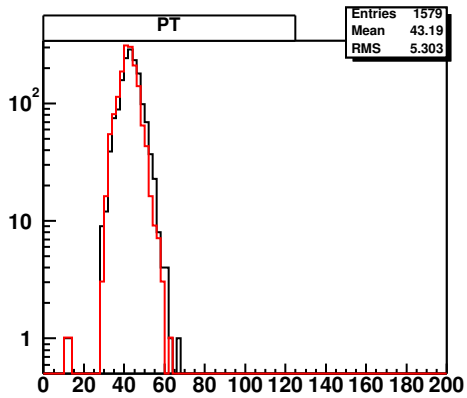


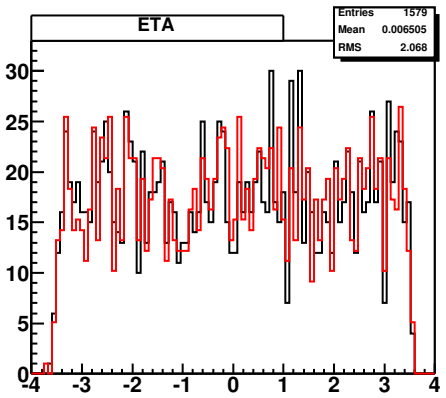


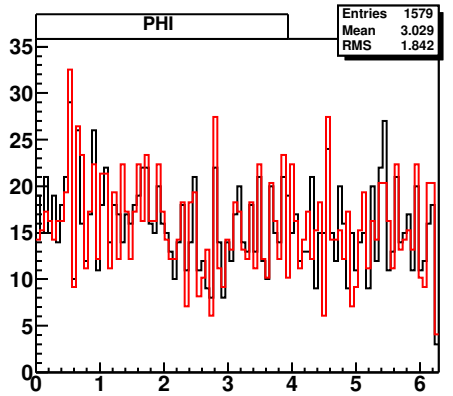


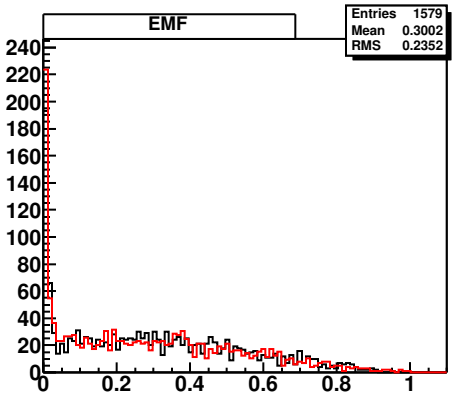
Jets (Cone R 0.7 (standard cuts))

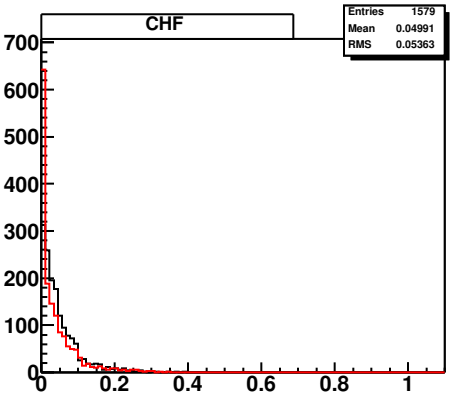


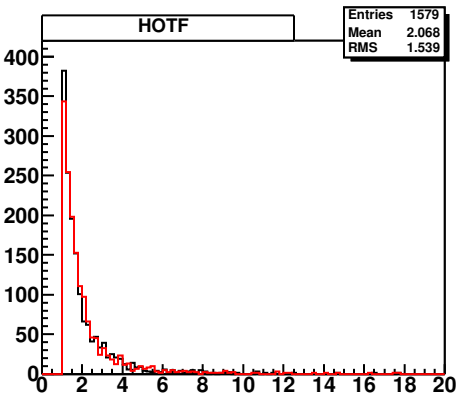


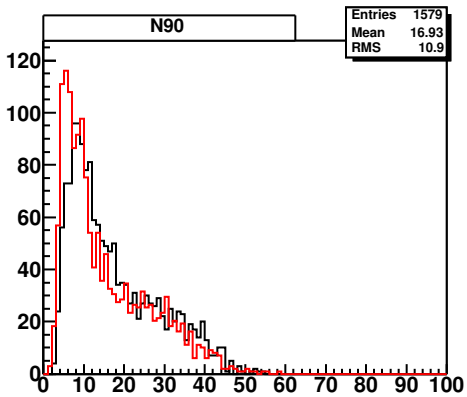


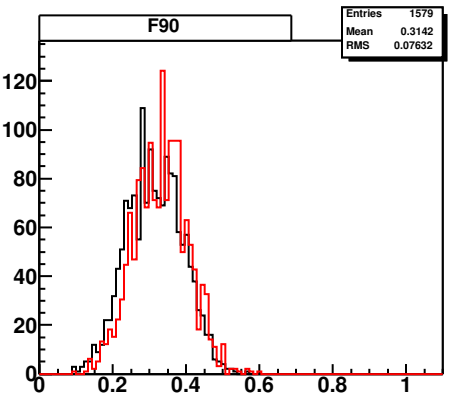


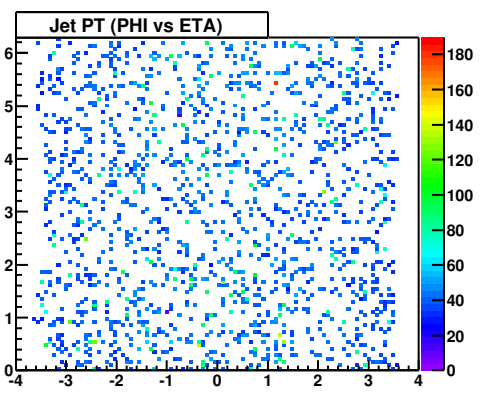




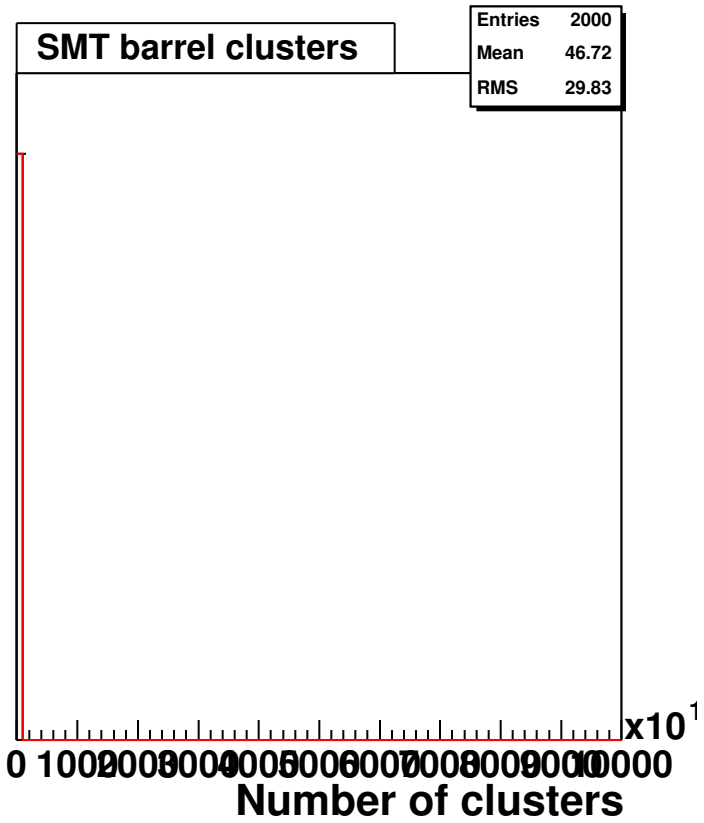


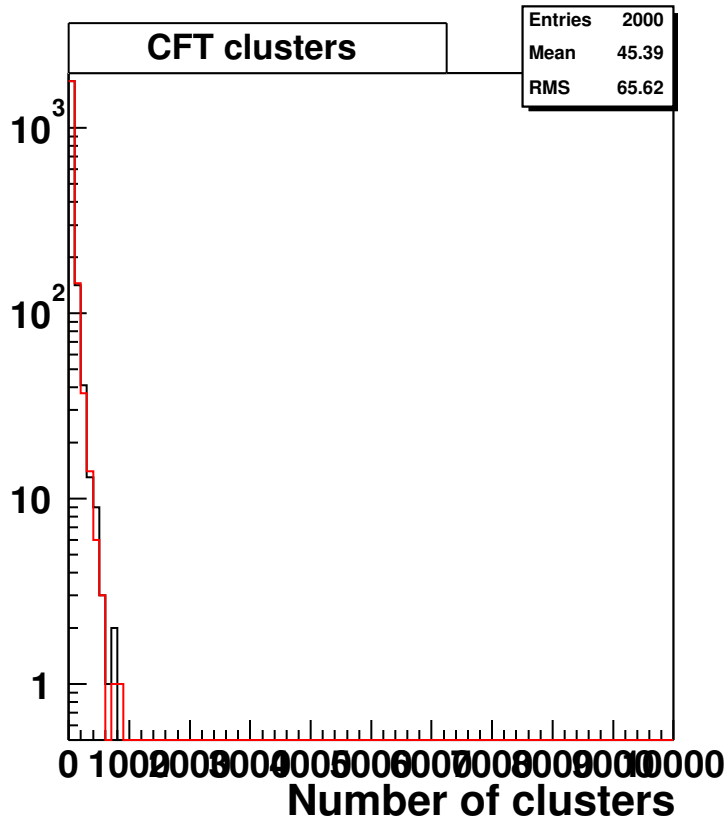


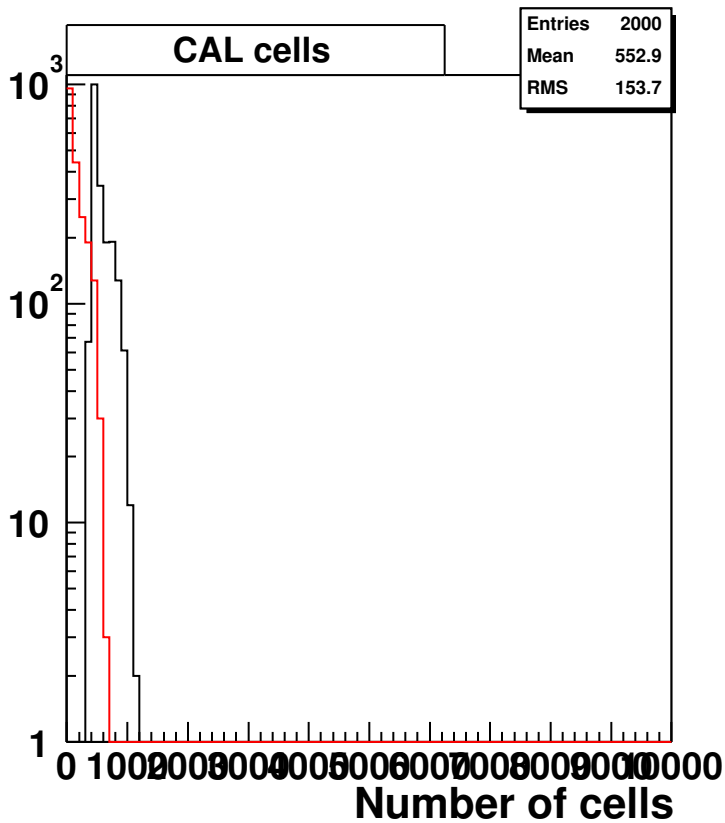


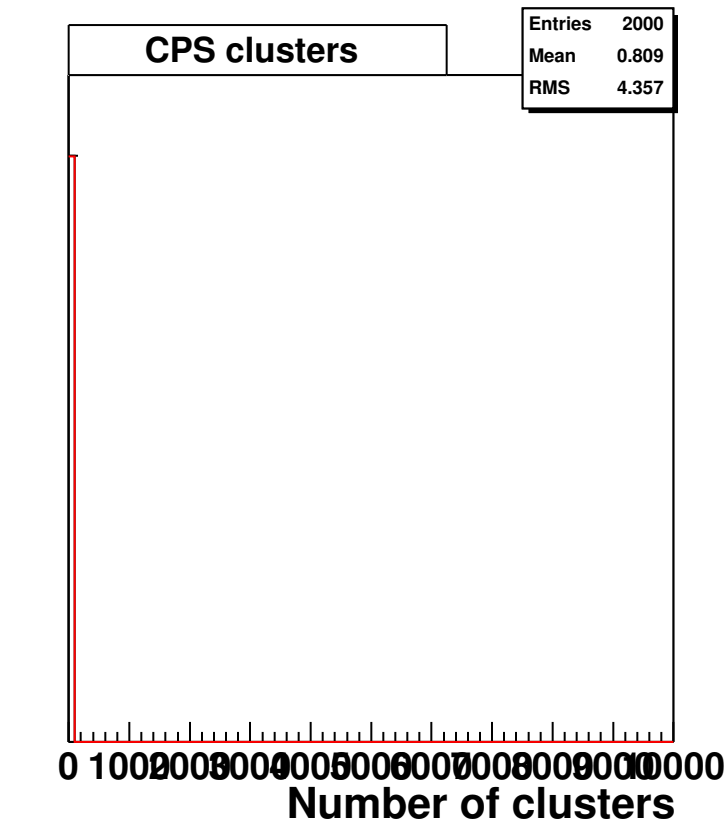


Jets (Cone R 0.7 (standard cuts, MET>30))

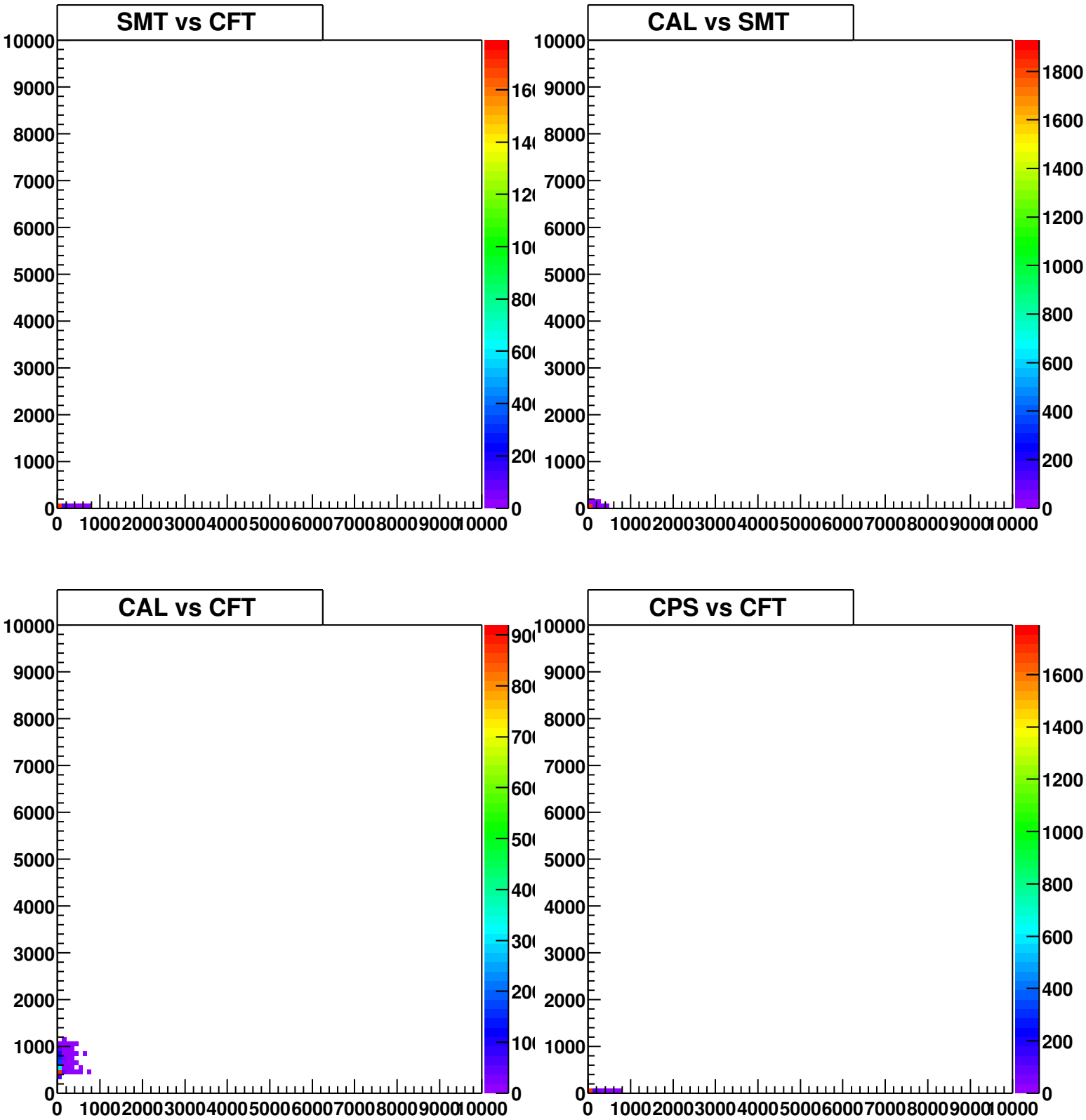




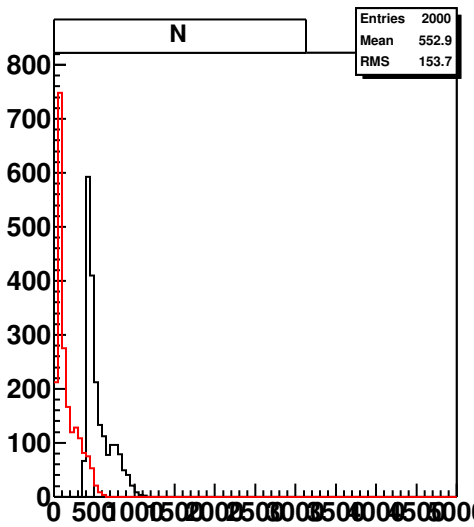


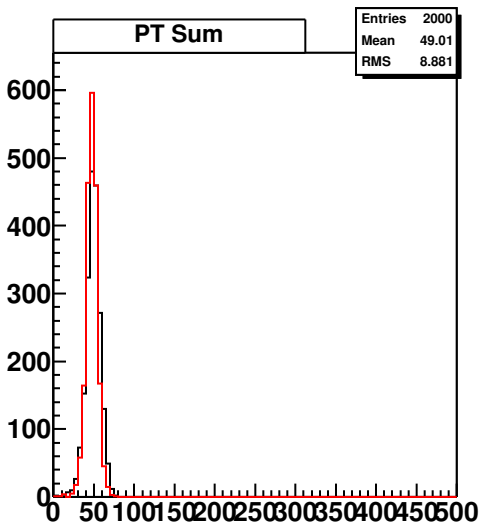


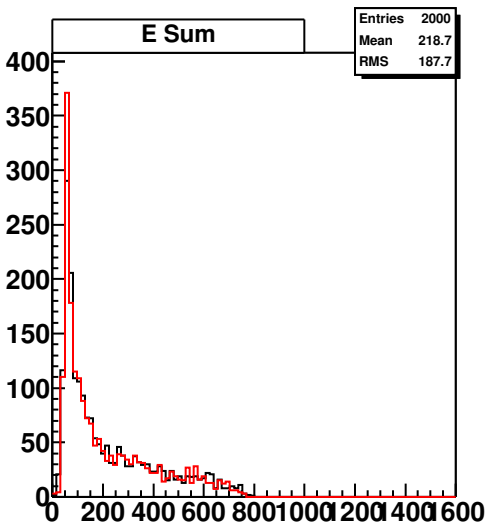
Detector Occupancy (Detector)

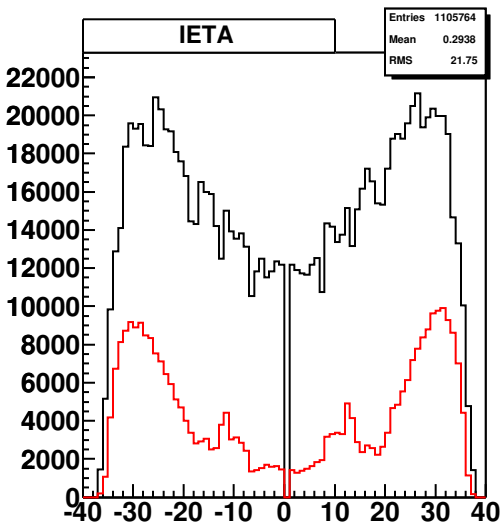


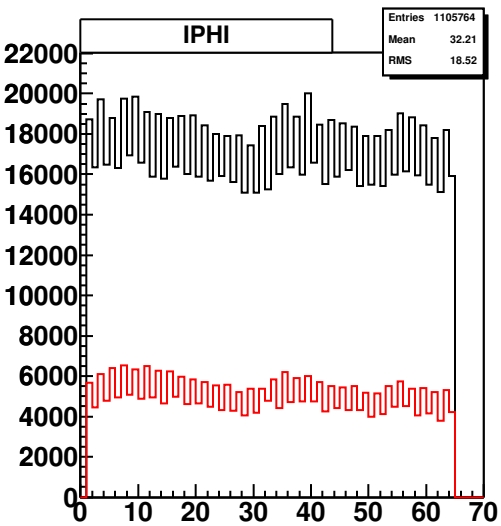
Detector Occupancy (Detector)

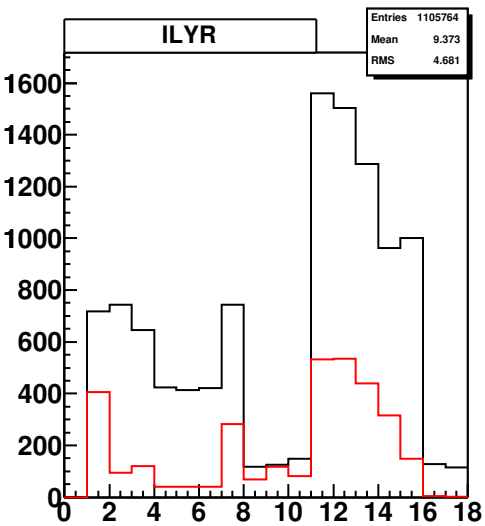


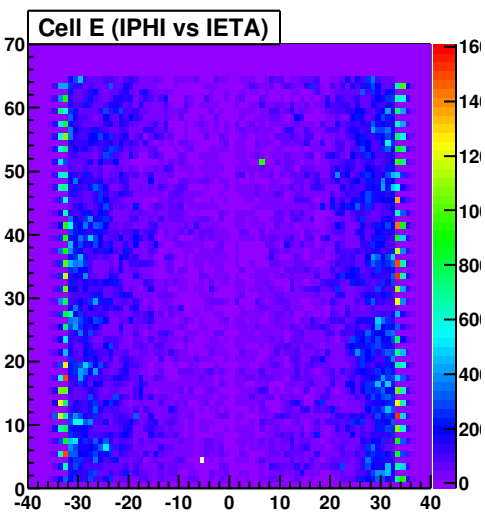


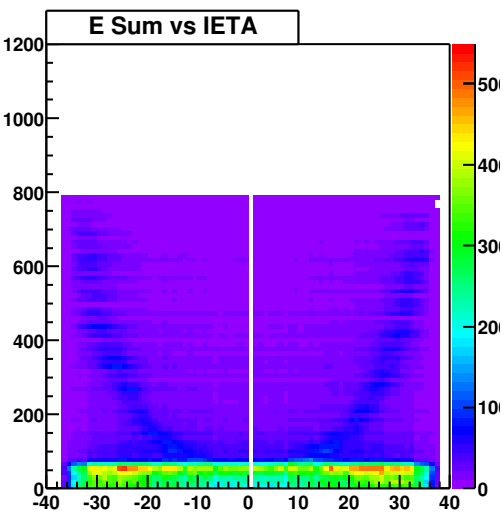


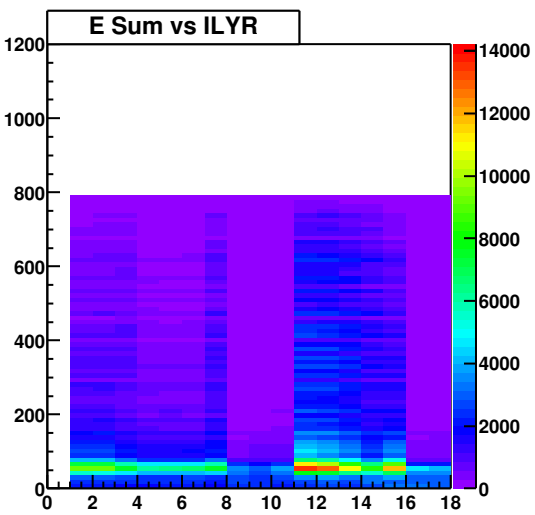




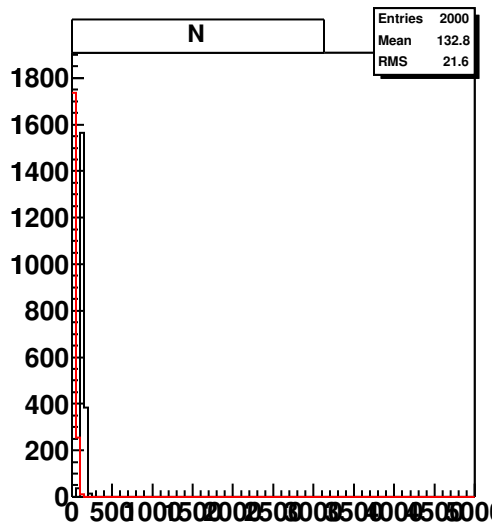


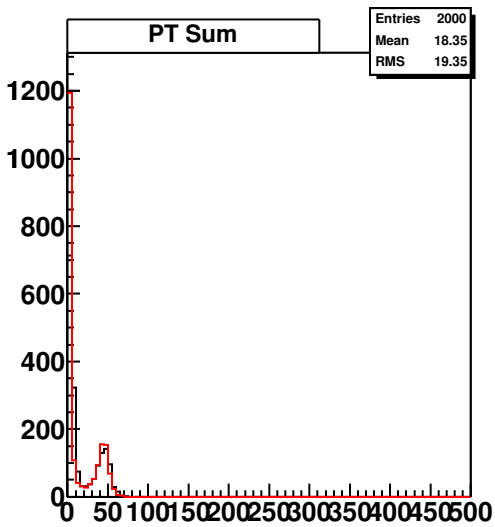


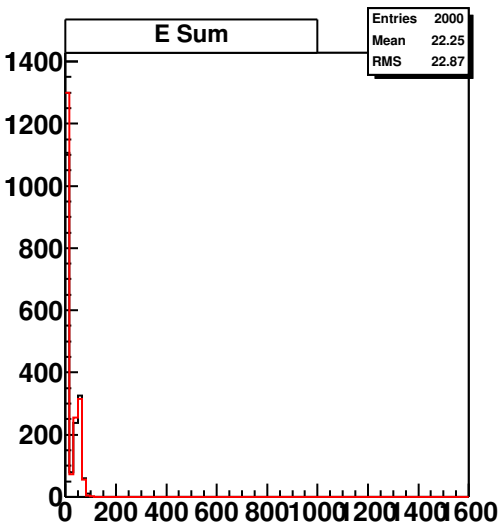


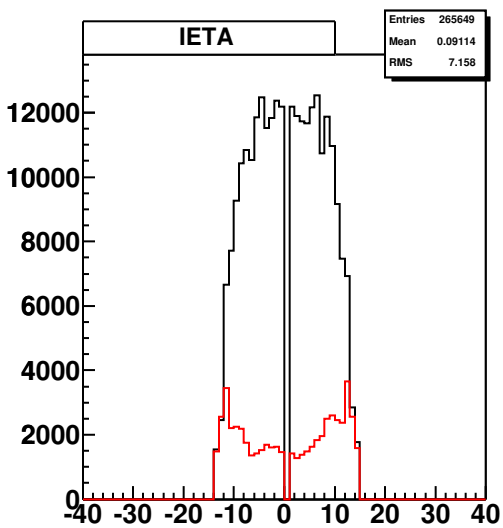


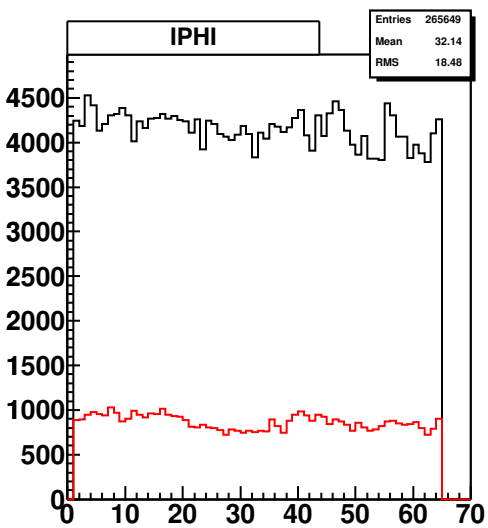
Calorimeter (All cells)

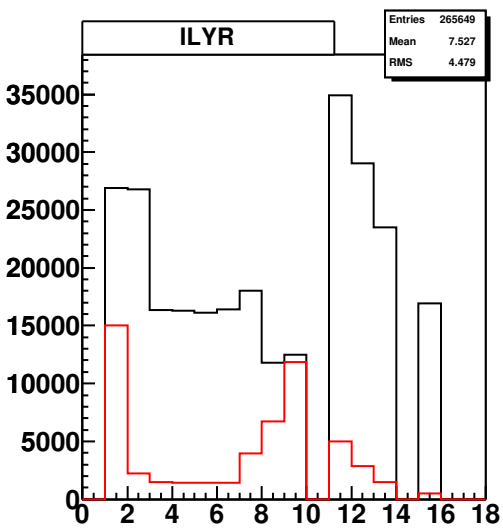


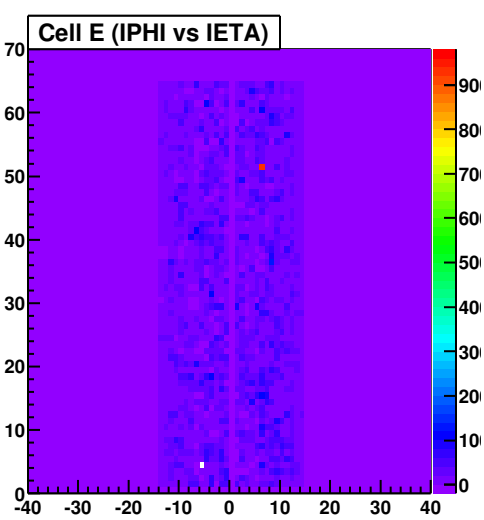


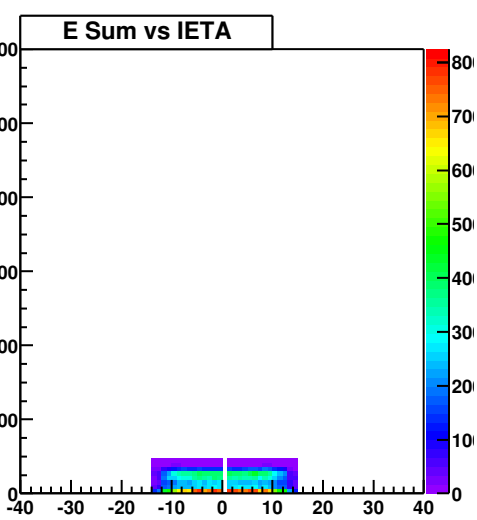


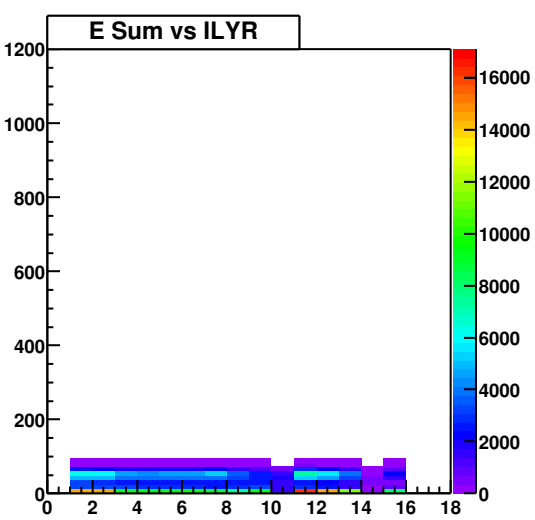




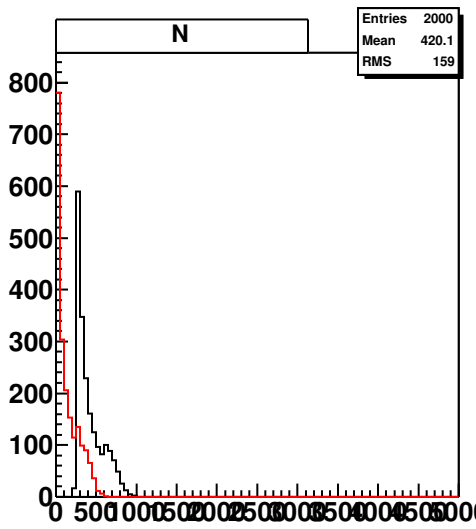


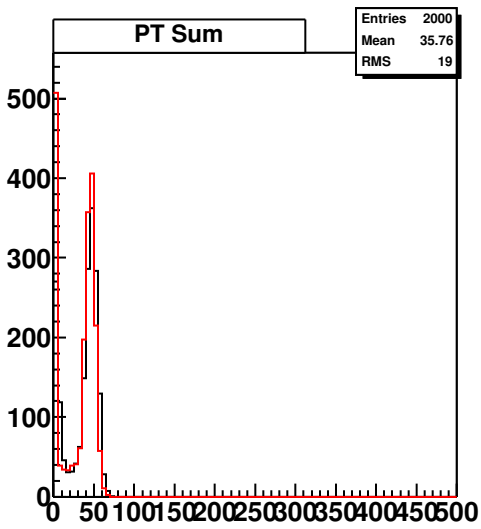


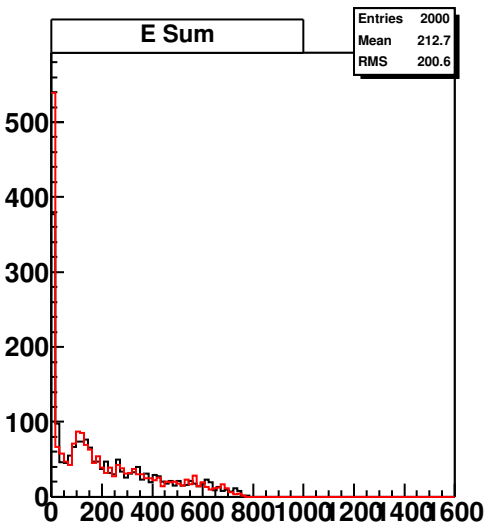


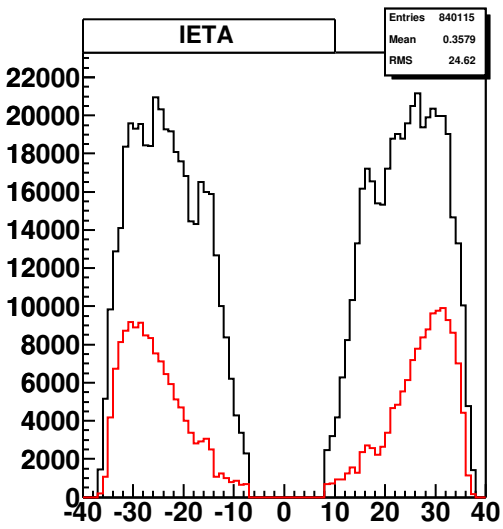


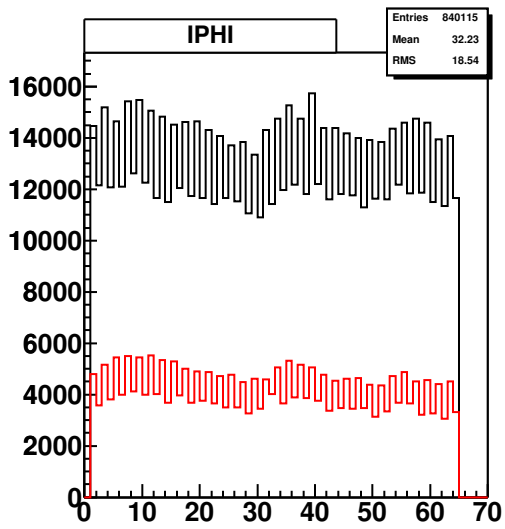
Calorimeter (All CC cells)

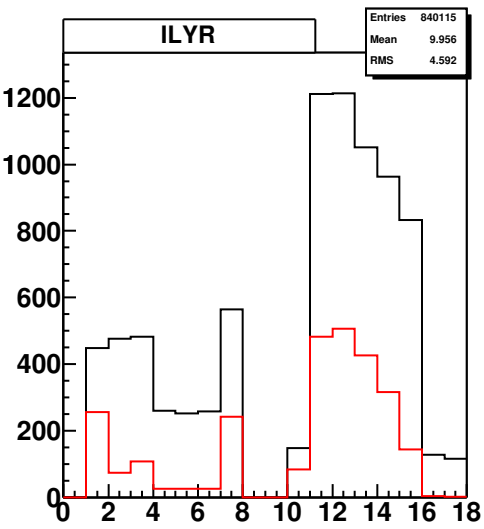


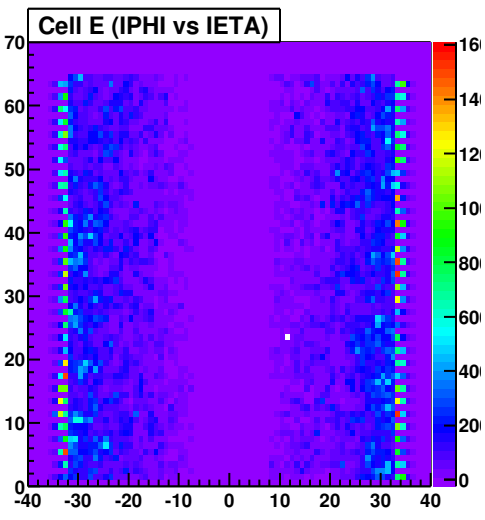


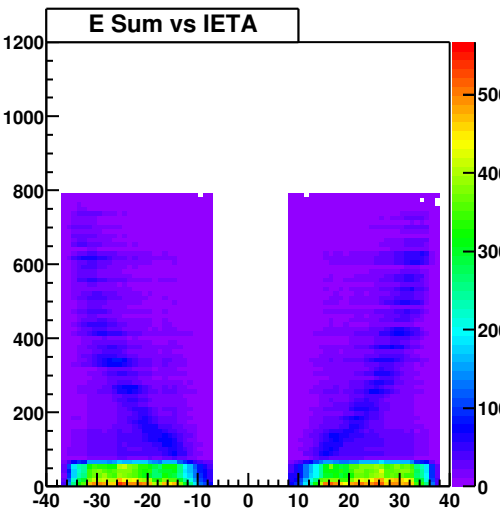


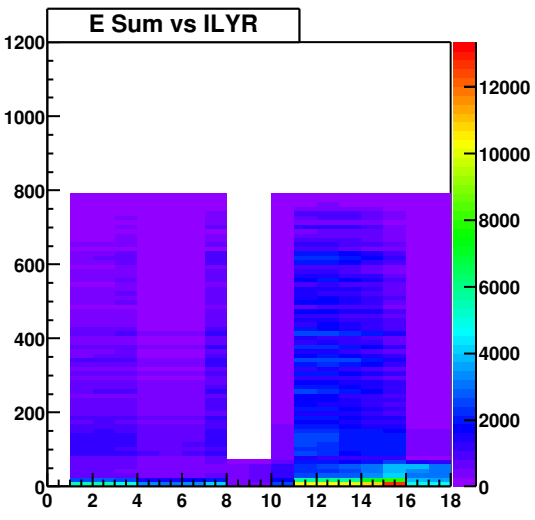




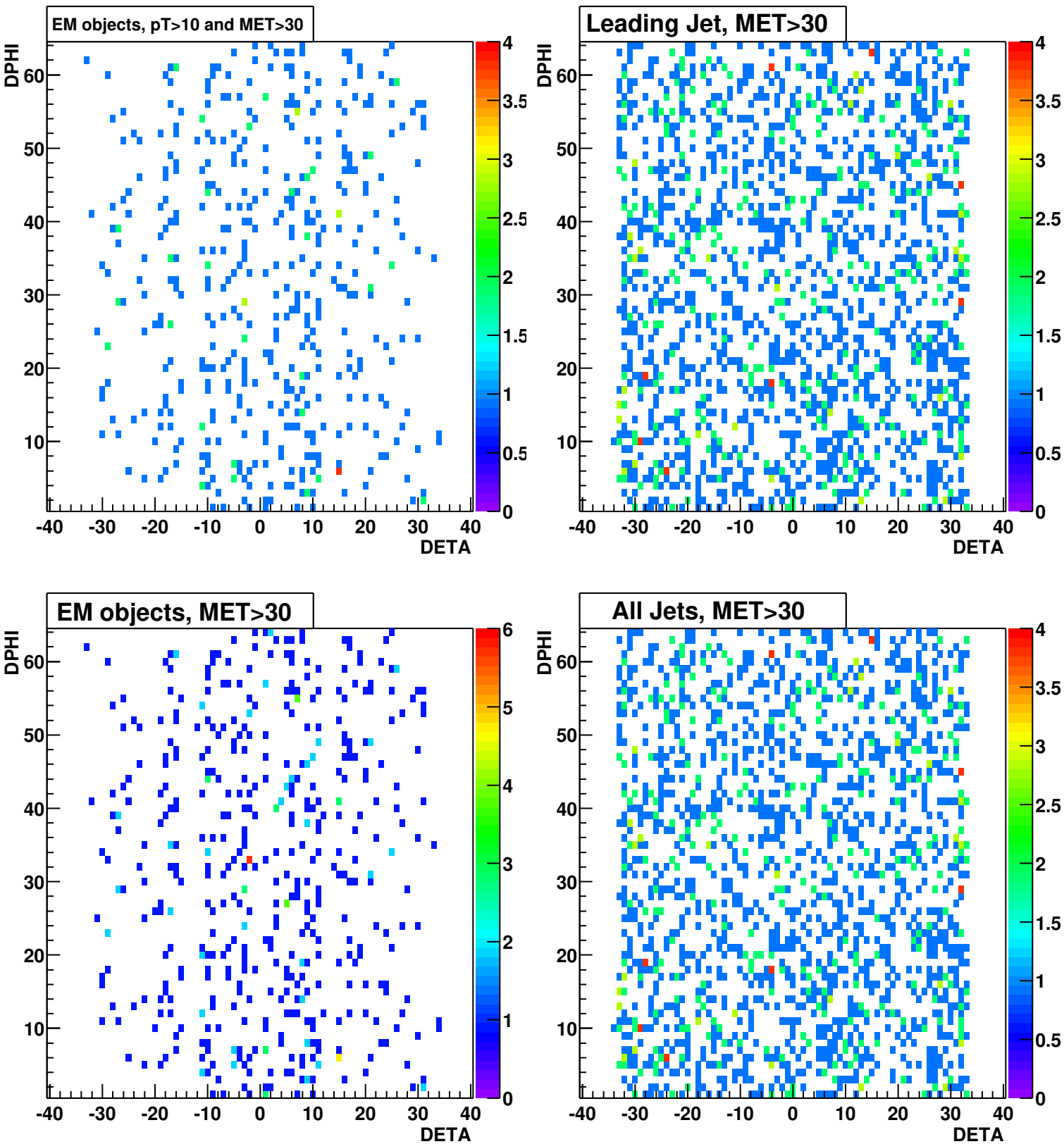




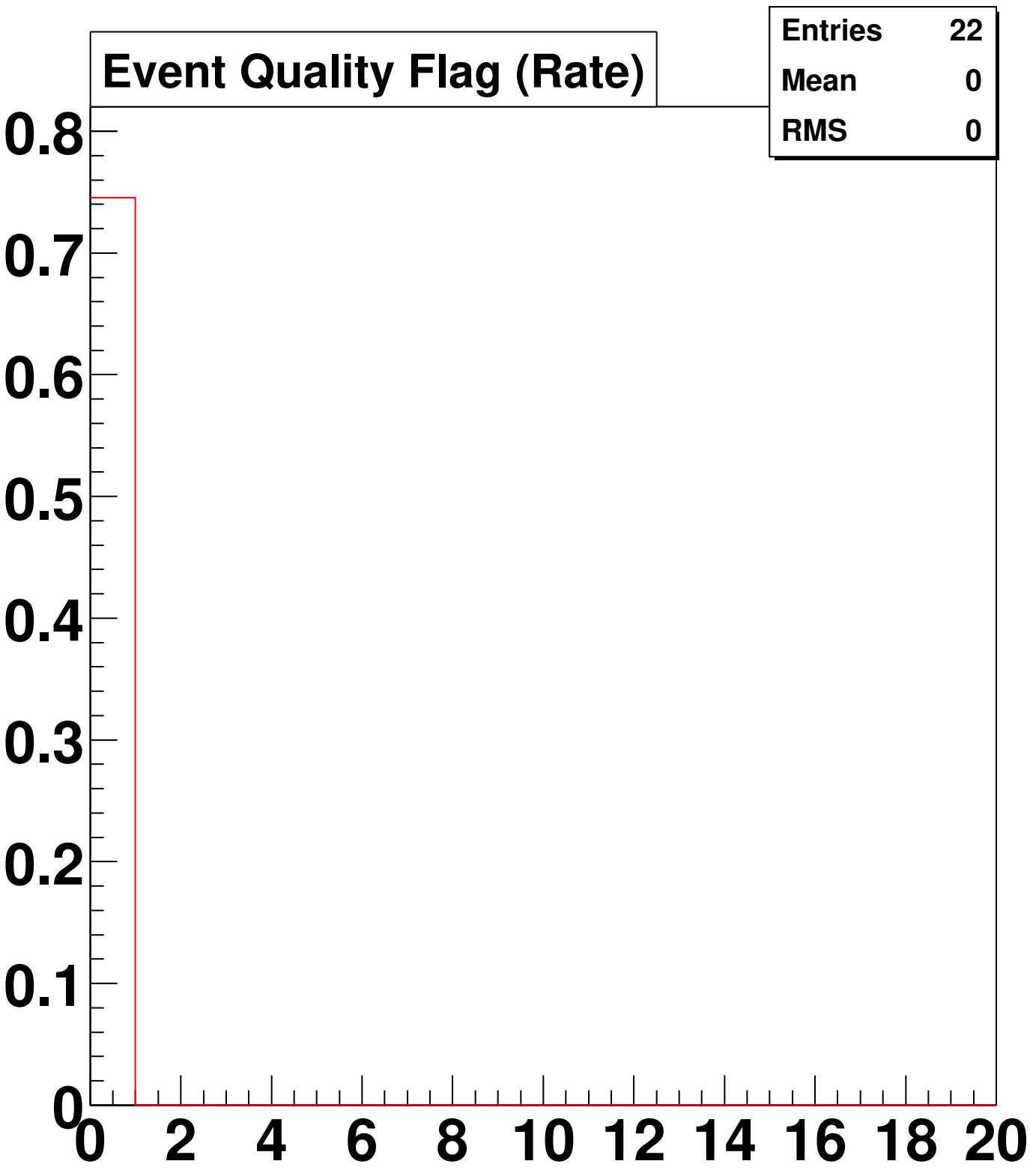


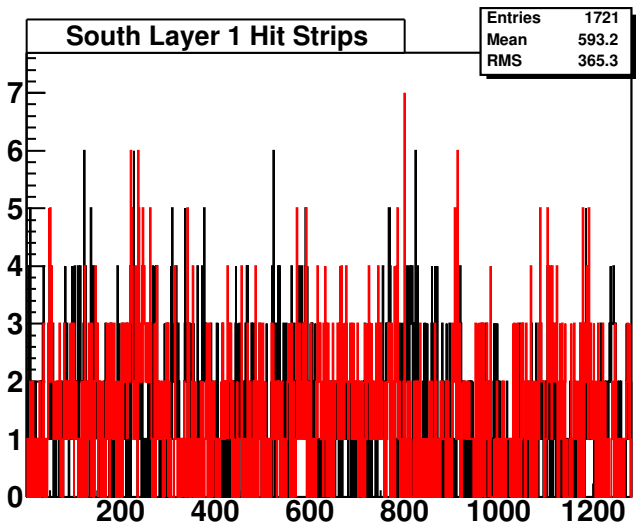


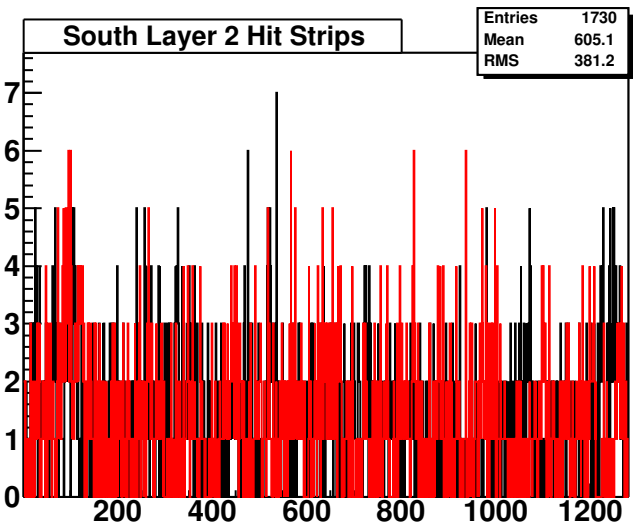
Calorimeter (All EC cells)

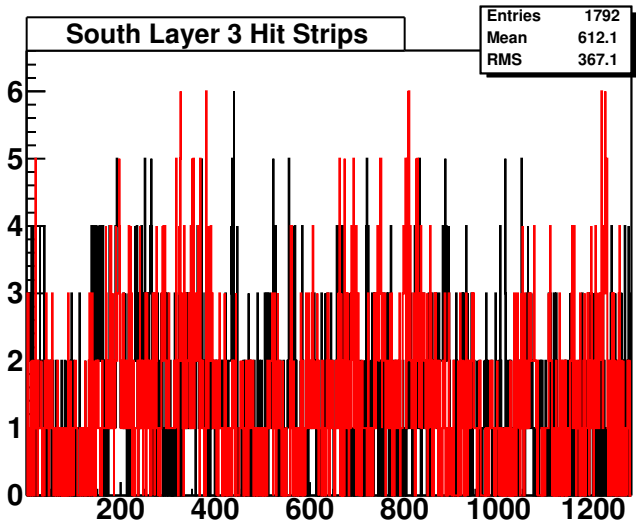


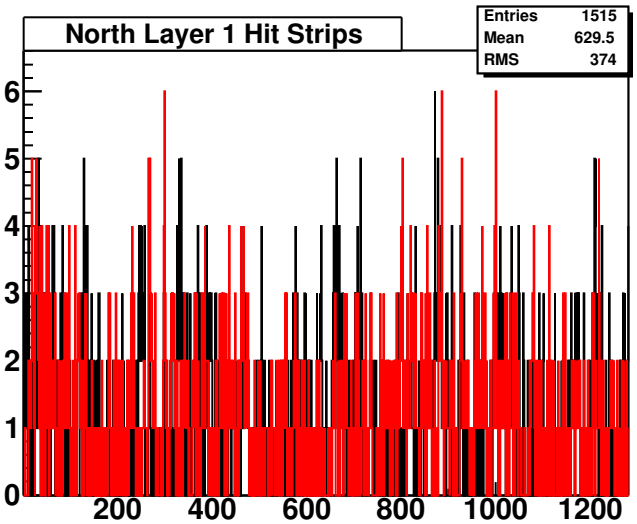
Cal Objects with MET>30 (All cells)

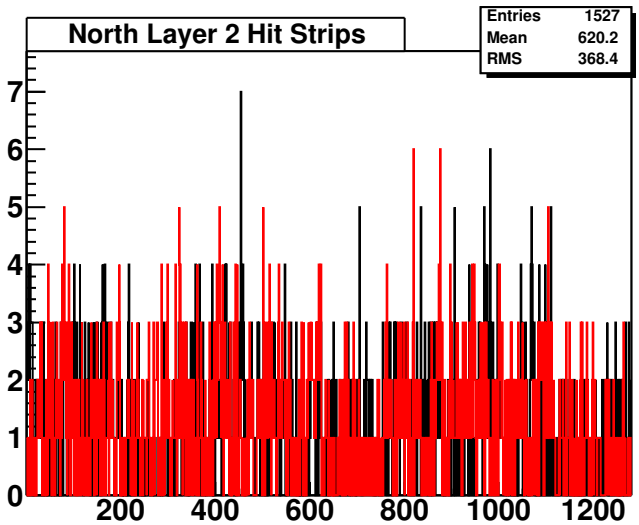

Event Quality Flag (Rate)
Entries 22
Mean 0
RMS 0
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

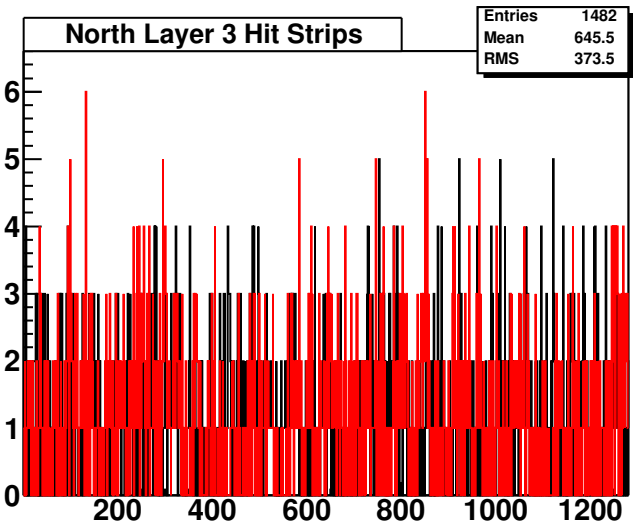




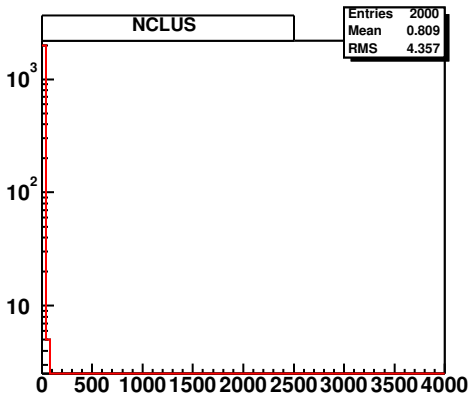


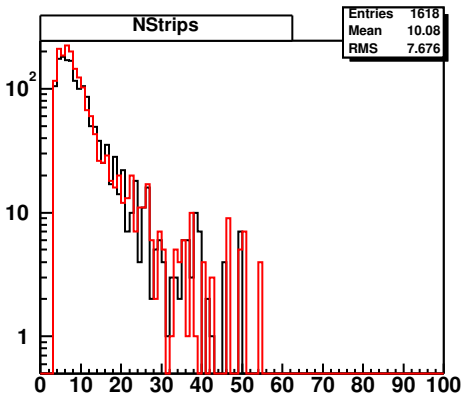


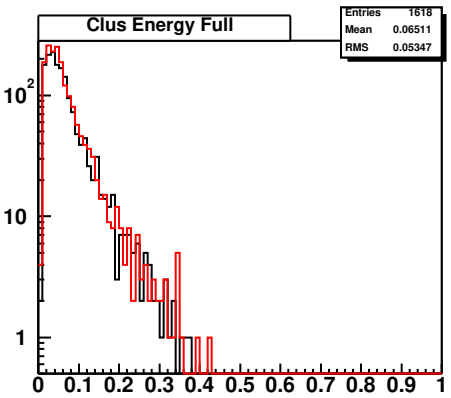


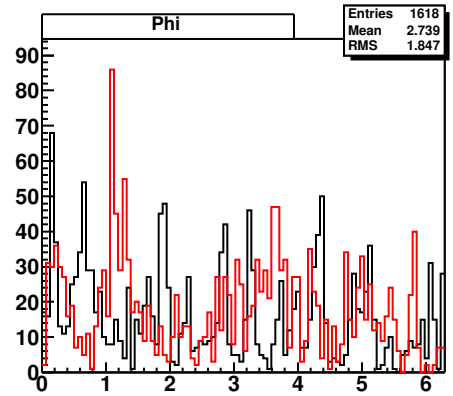


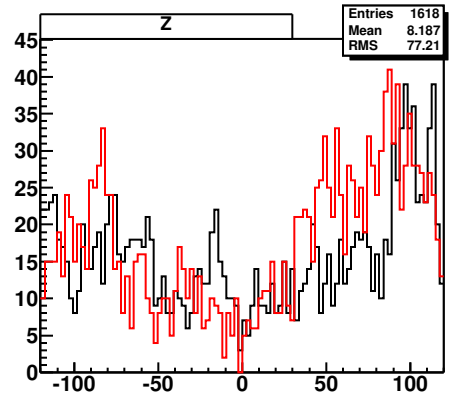
CPS Hit Strips (All Clusters)

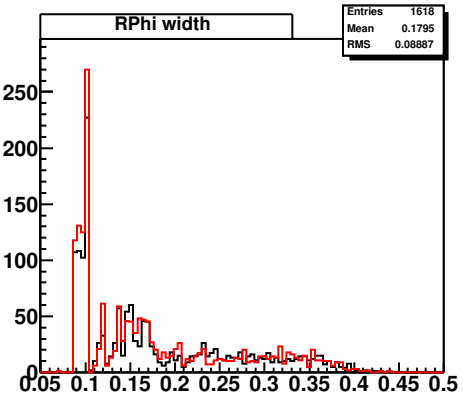


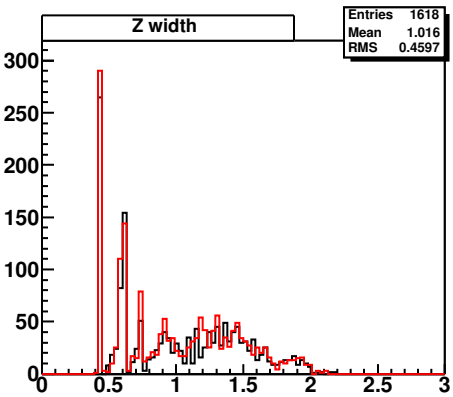


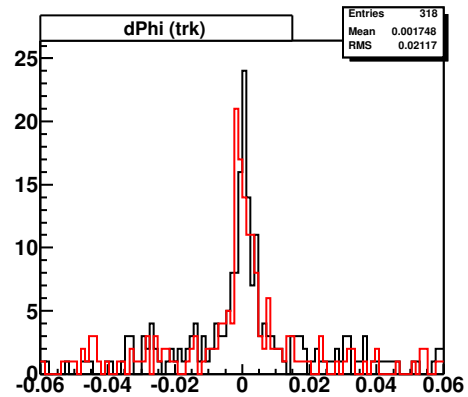


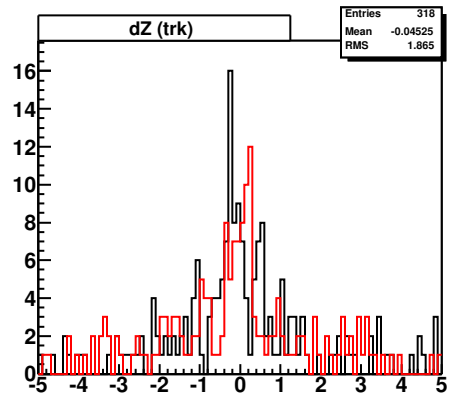


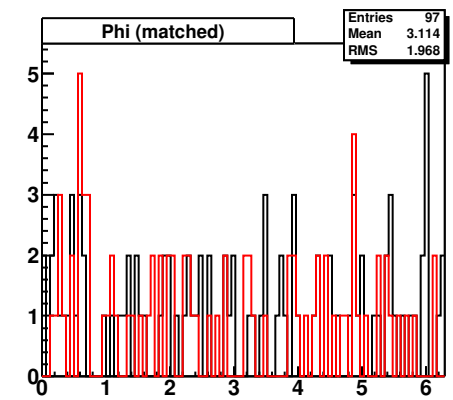


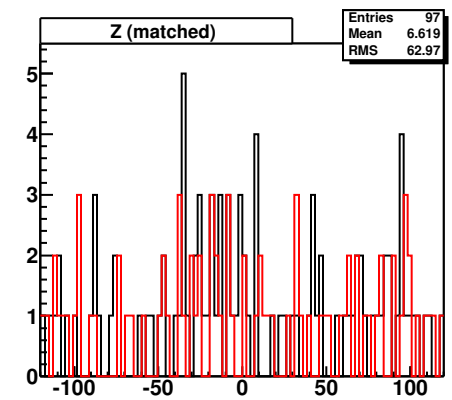




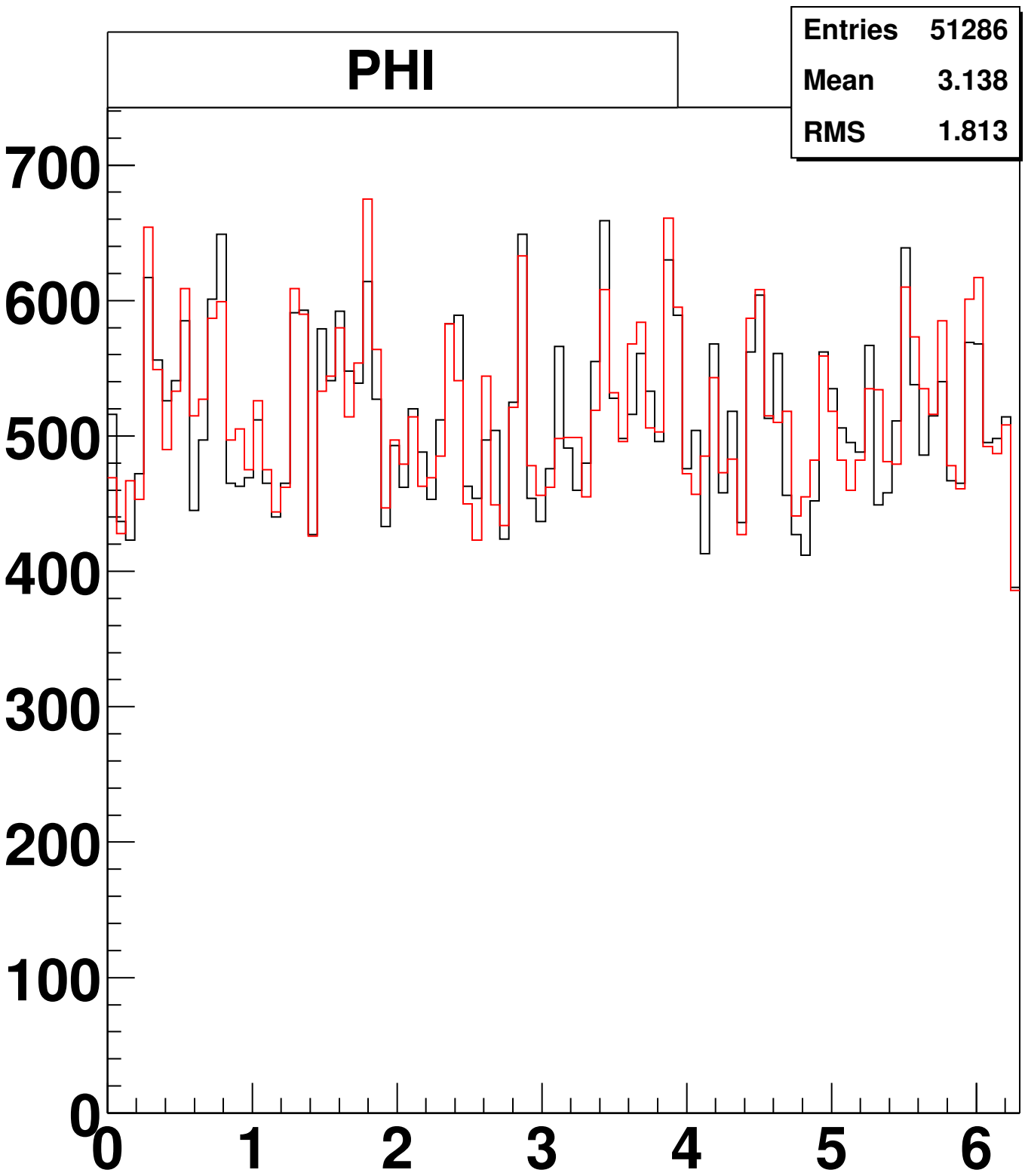


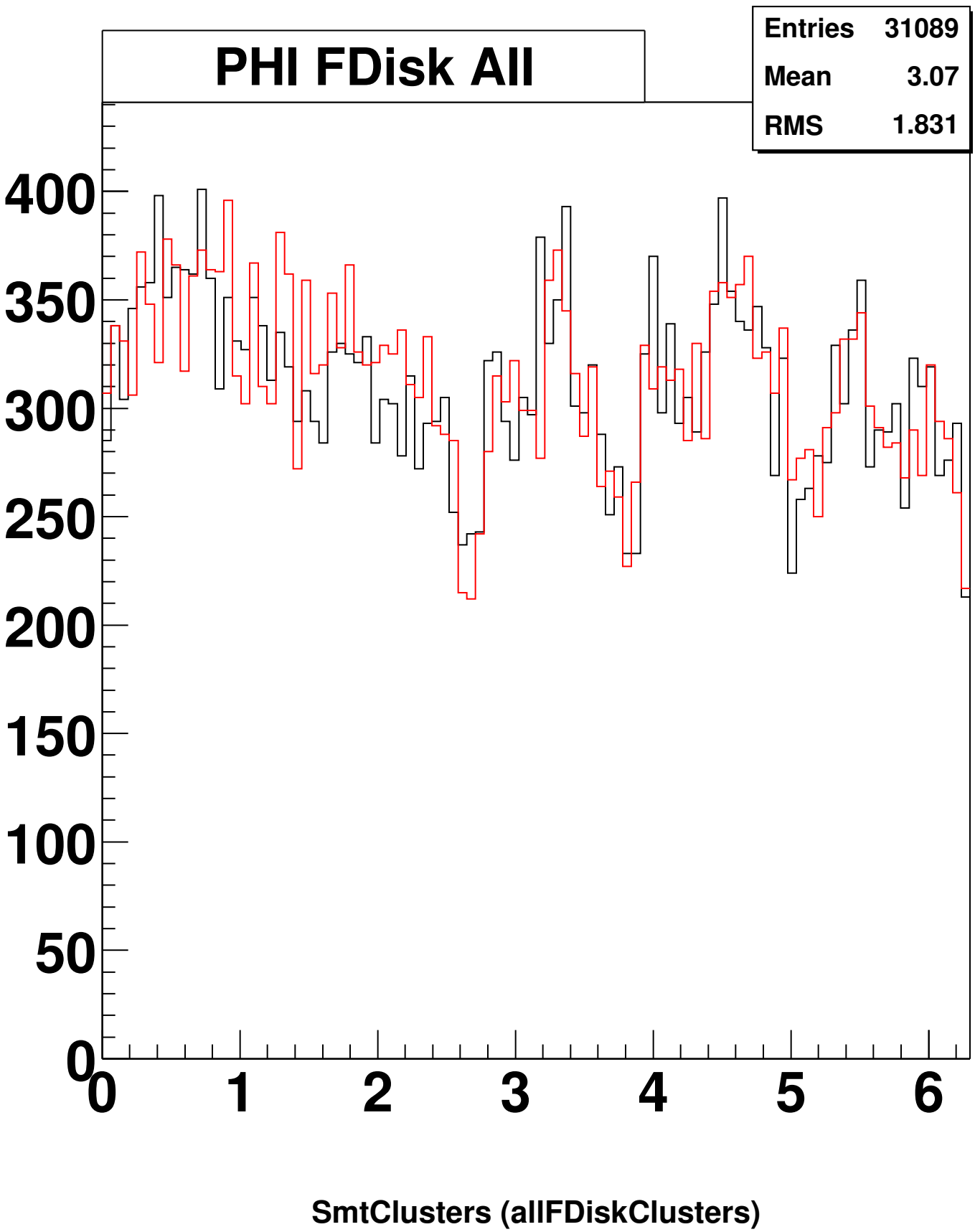


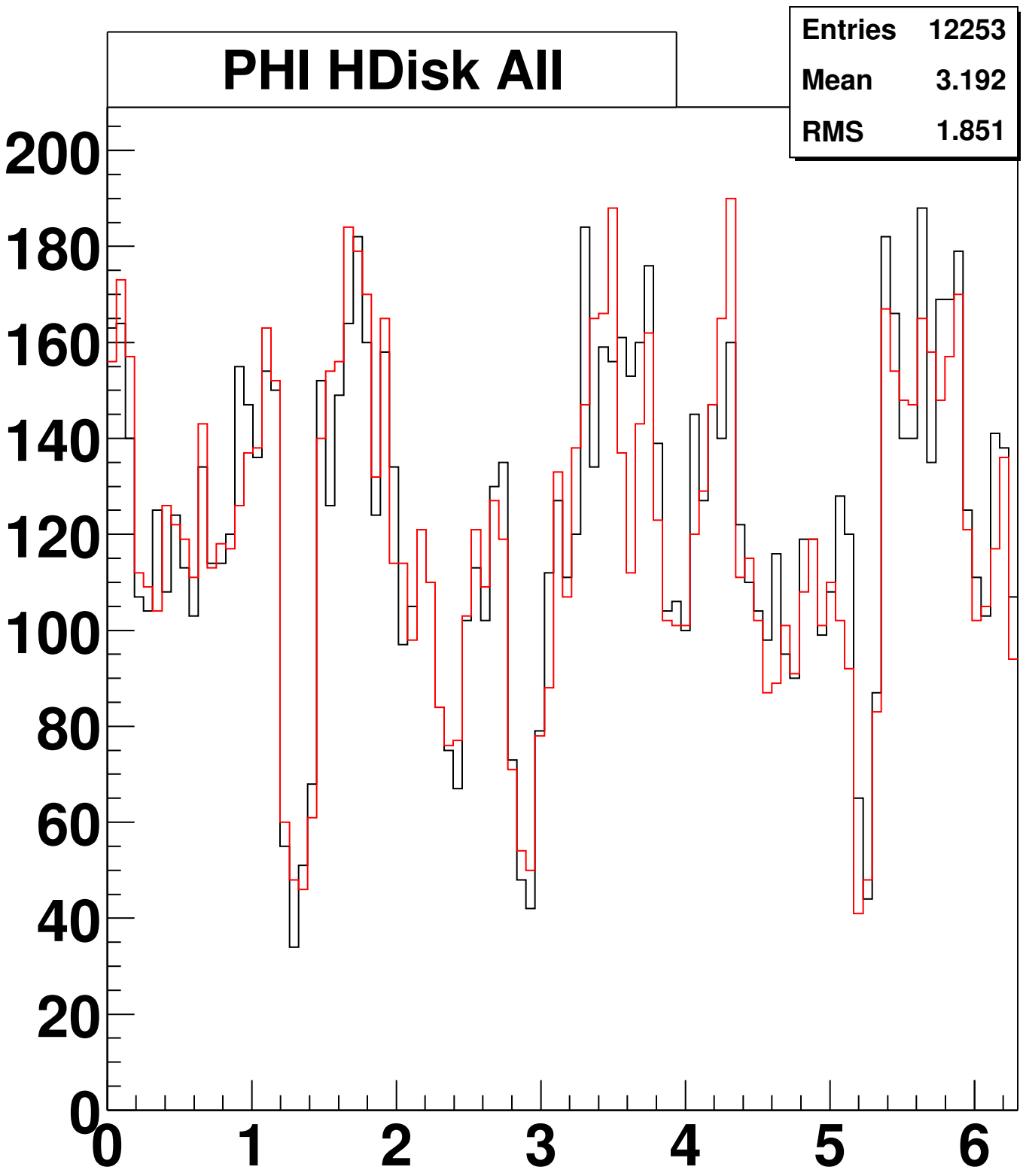


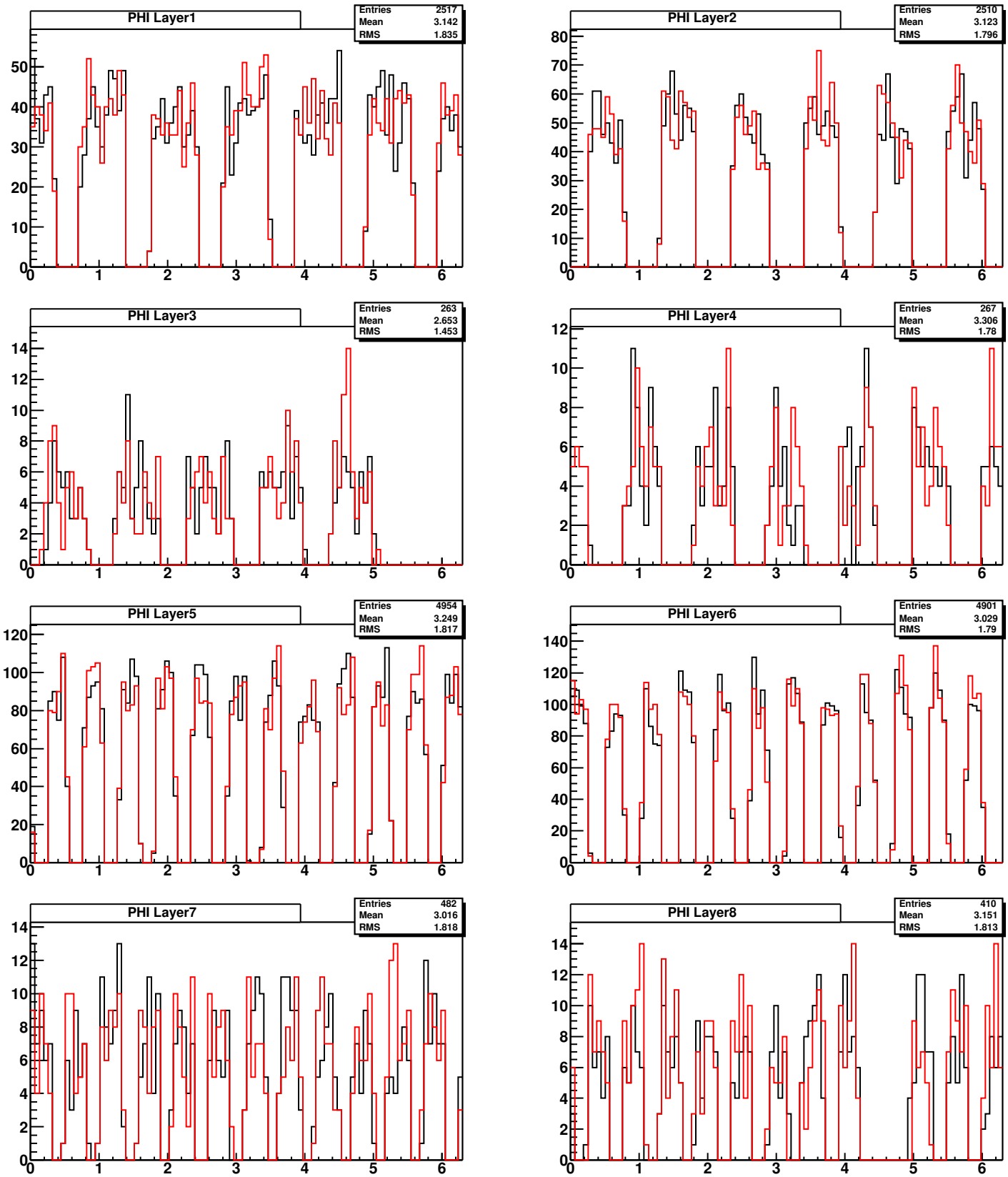


CPS Clusters (All Clusters)

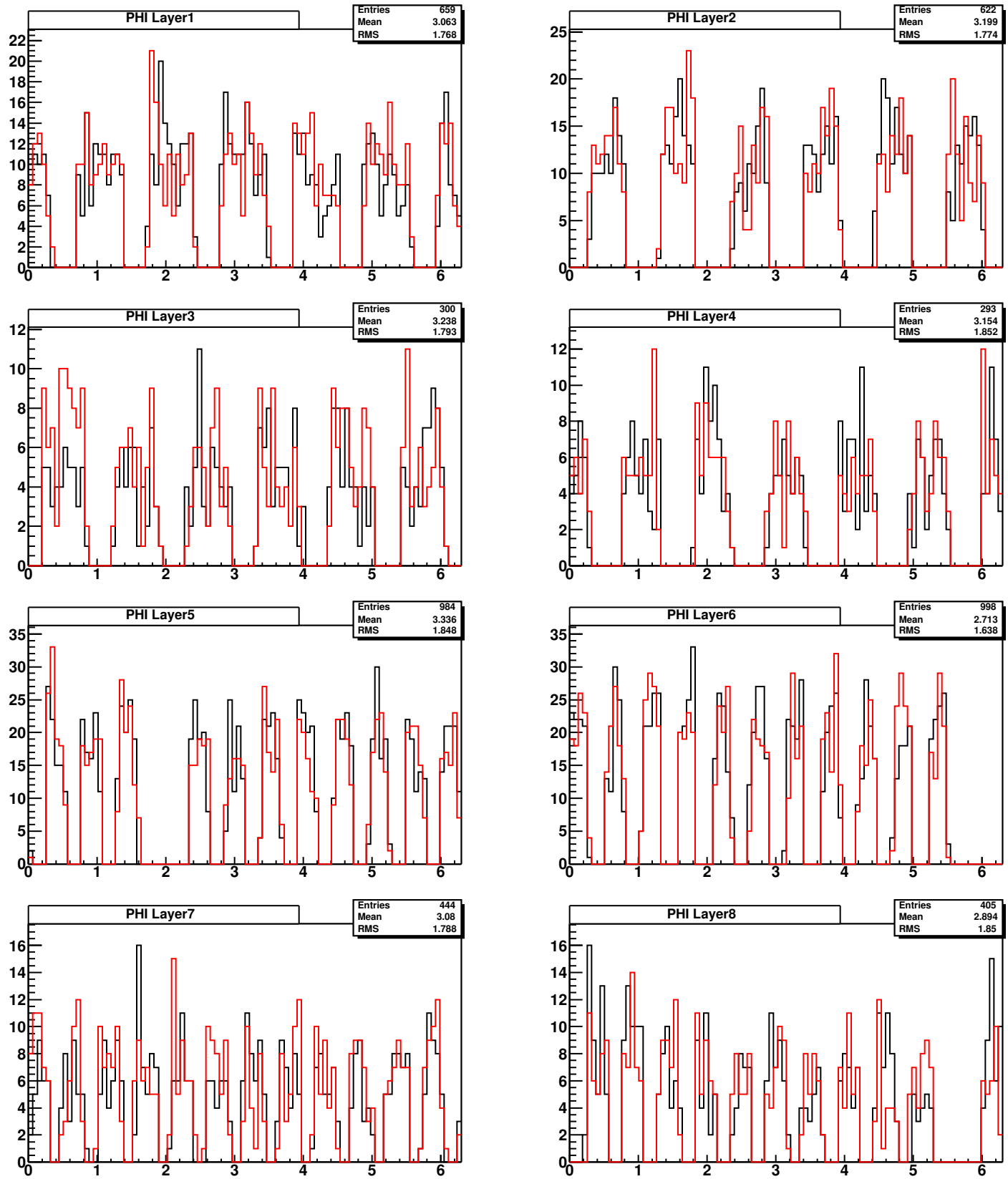

PHI
Entries 51286
Mean 3.138
RMS 1.813
700
600
500
400
300
200
100
0
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 31089
Mean 3.07
RMS 1.831
400
350
300
250
200
150
100
50
0
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

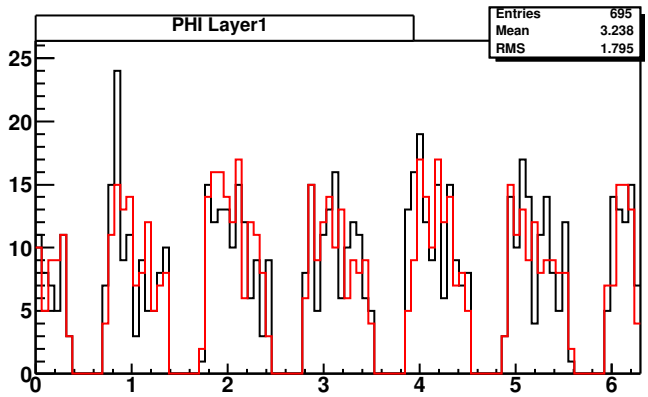

PHI HDisk All
Entries 12253
Mean 3.192
RMS 1.851
200
180
160
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

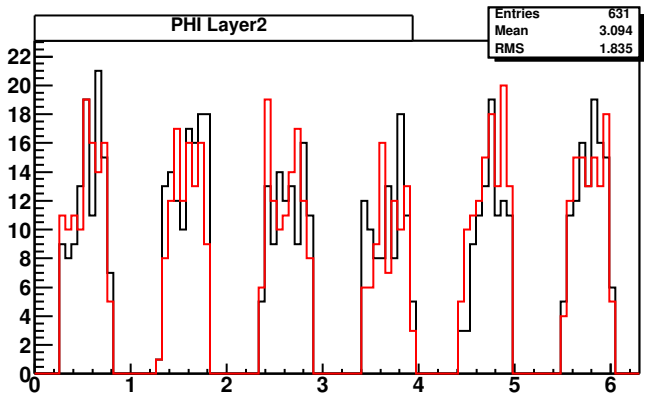


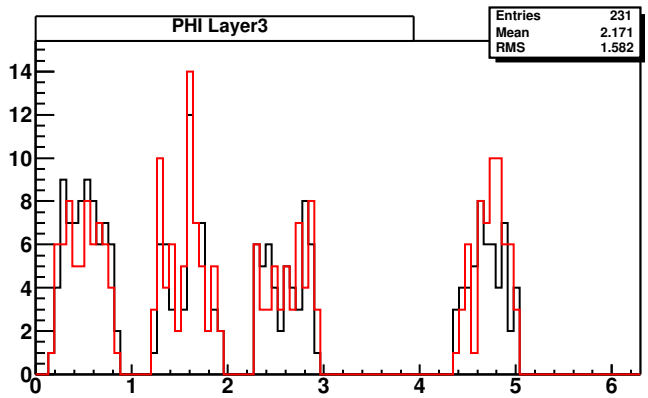
SmtClusters (ClustrBar1)

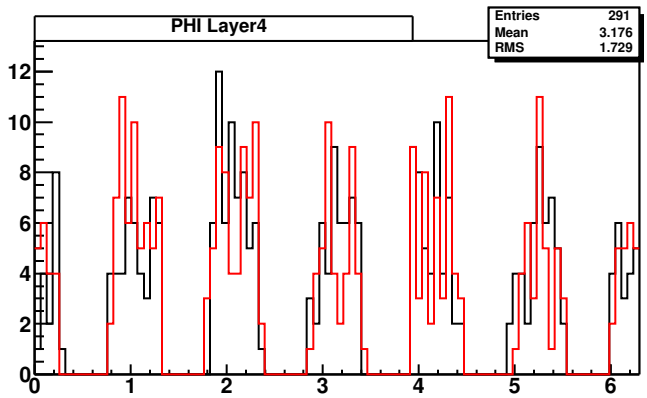


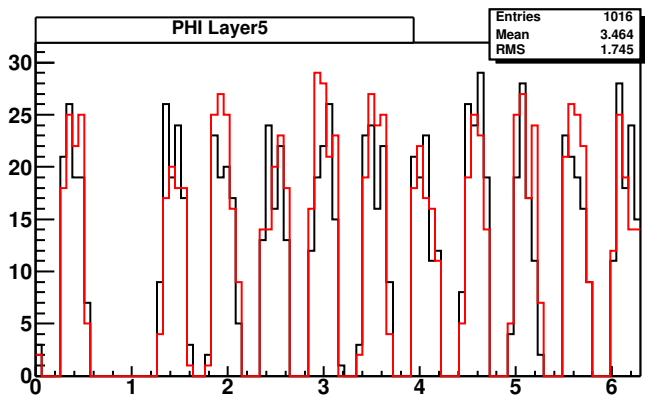
SmtClusters (ClustrBar2)

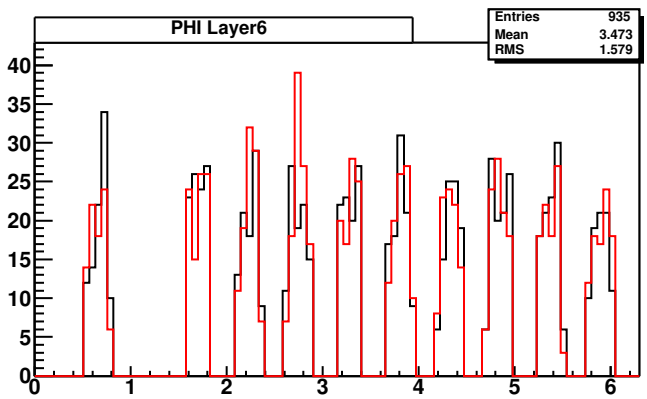


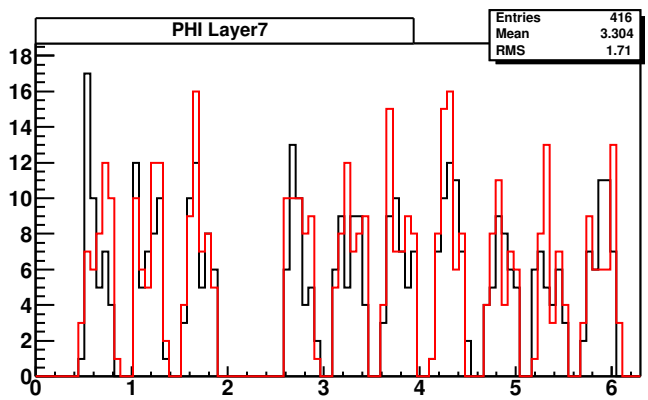


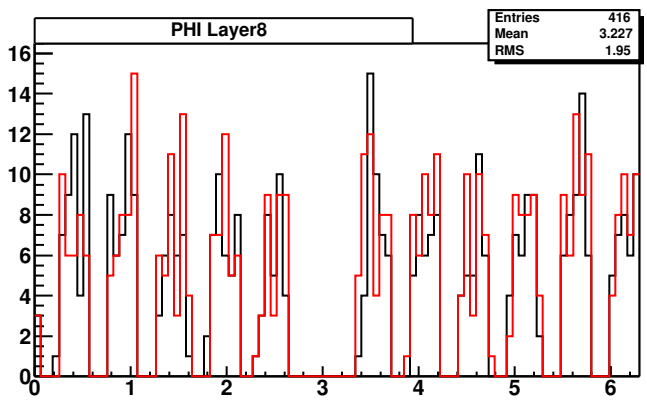




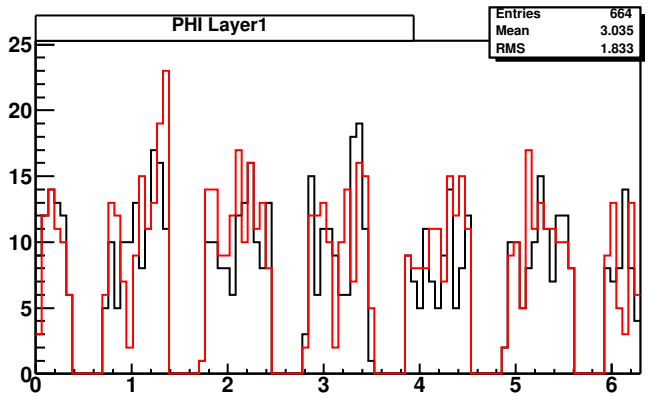


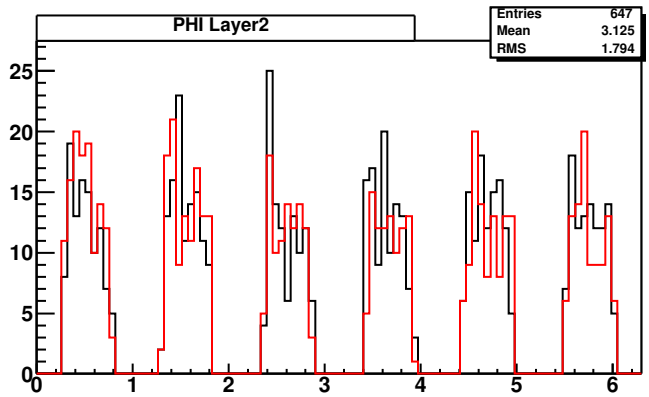


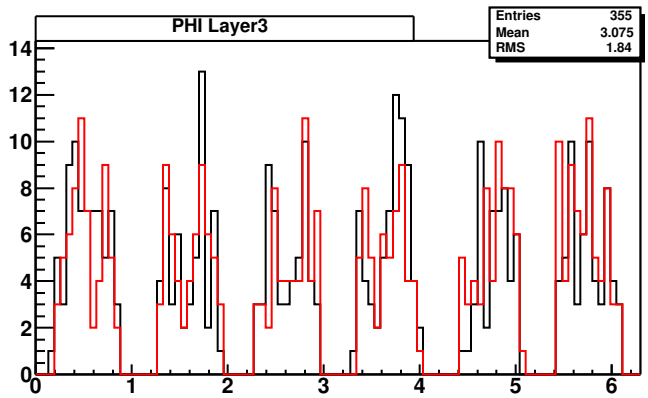


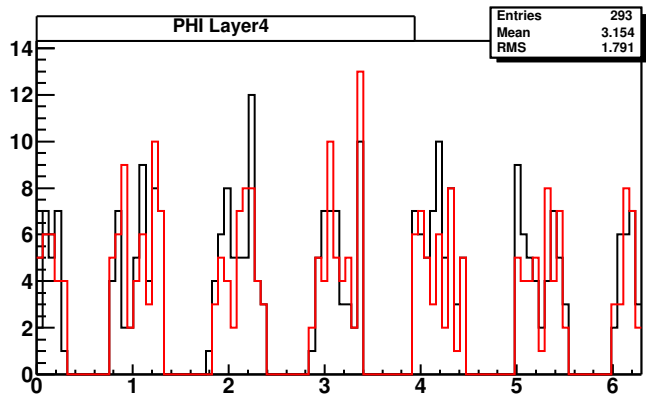


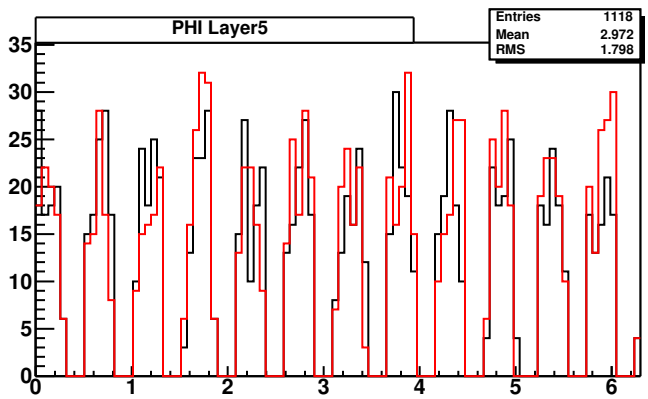
SmtClusters (ClustrBar3)

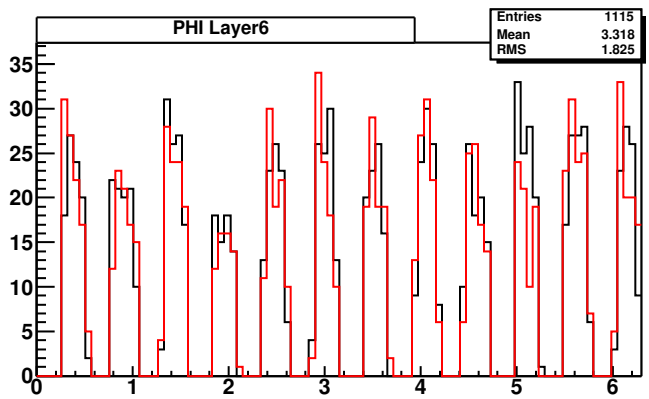


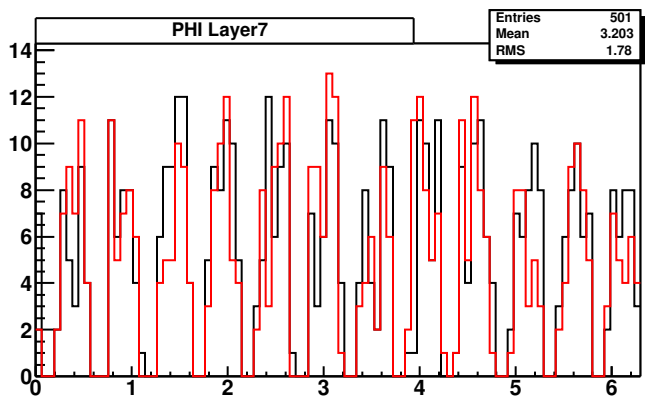


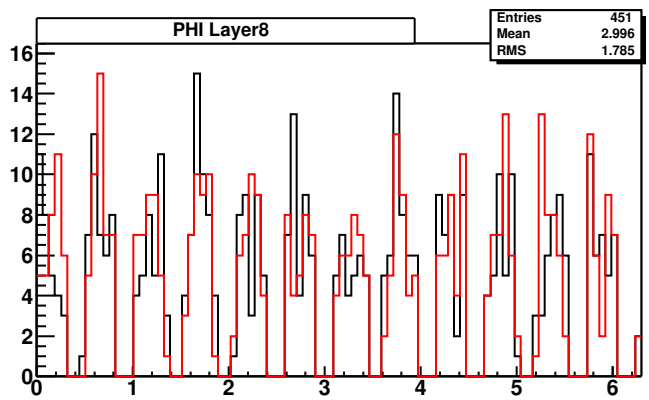




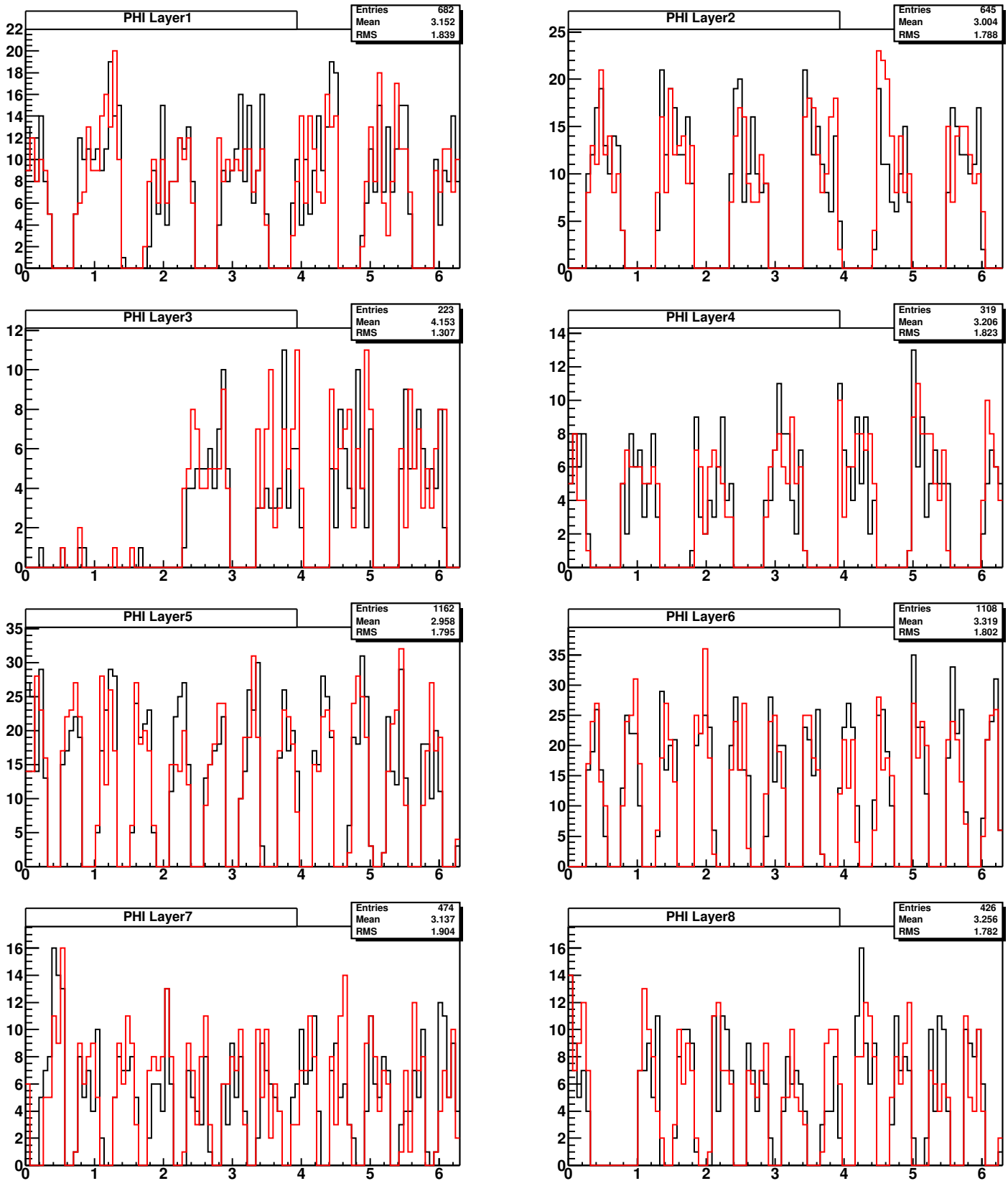




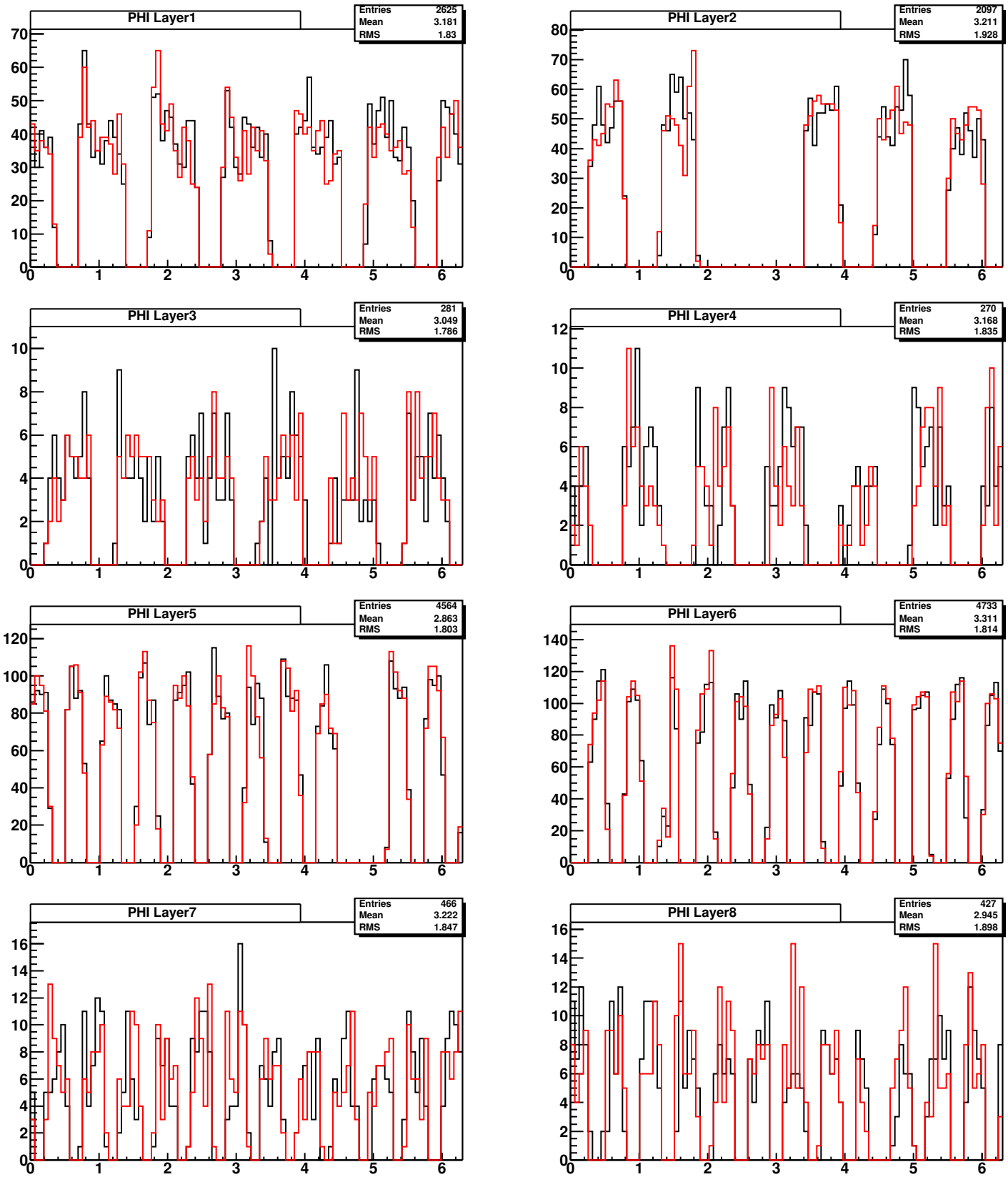




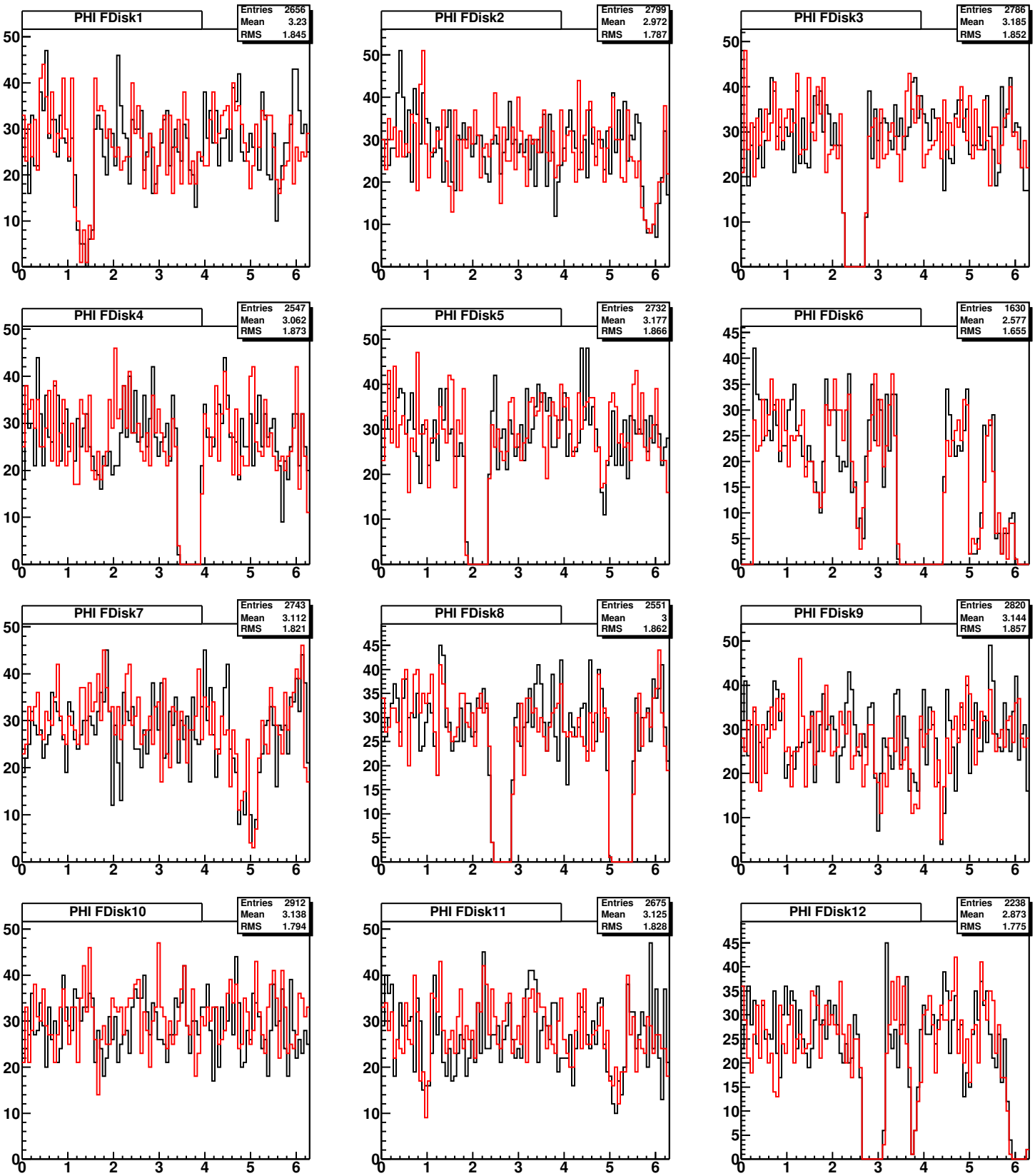
SmtClusters (ClustrBar4)



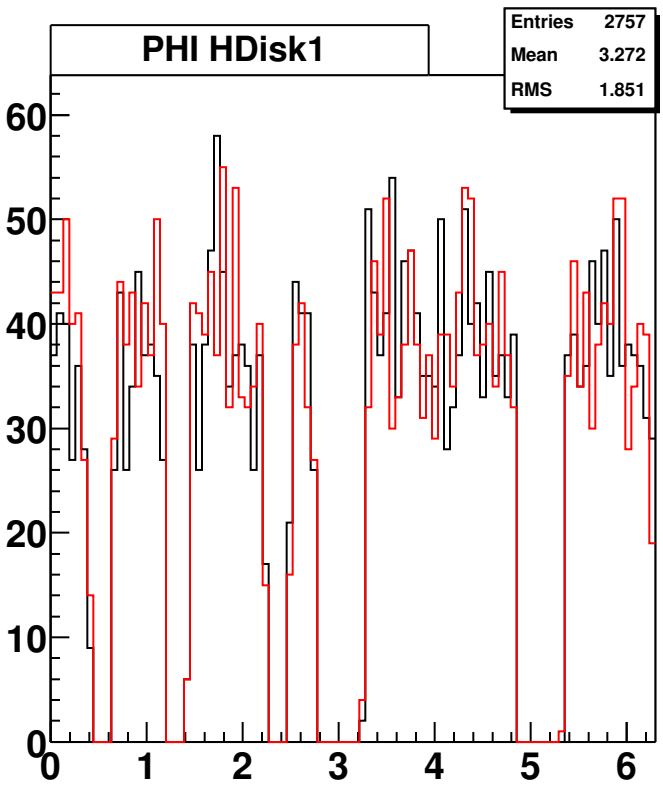
SmtClusters (ClustrBar5)

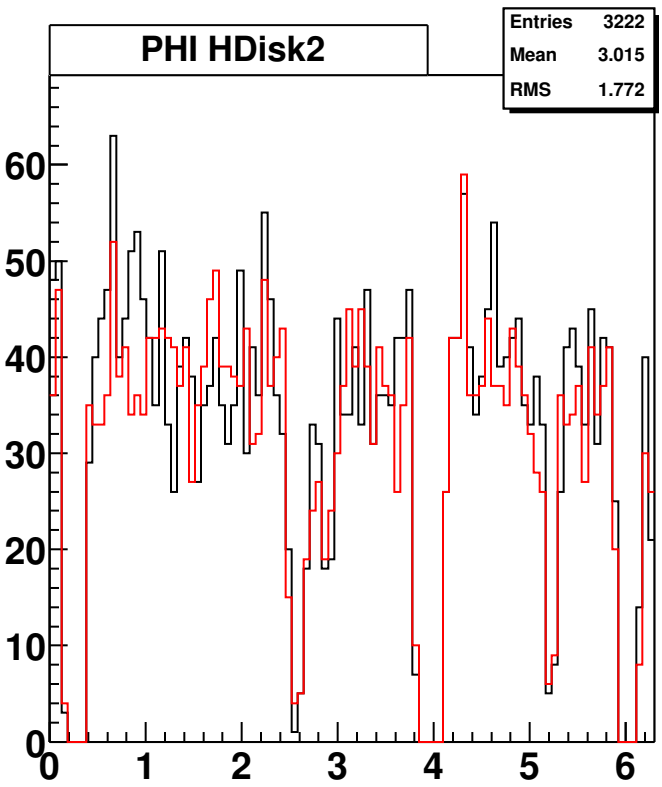


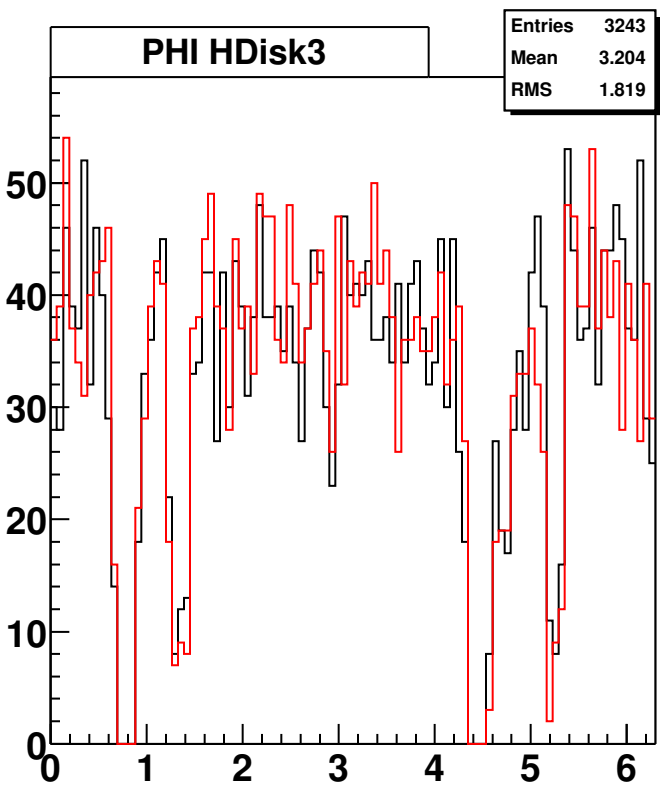
SmtClusters (ClustrBar6)

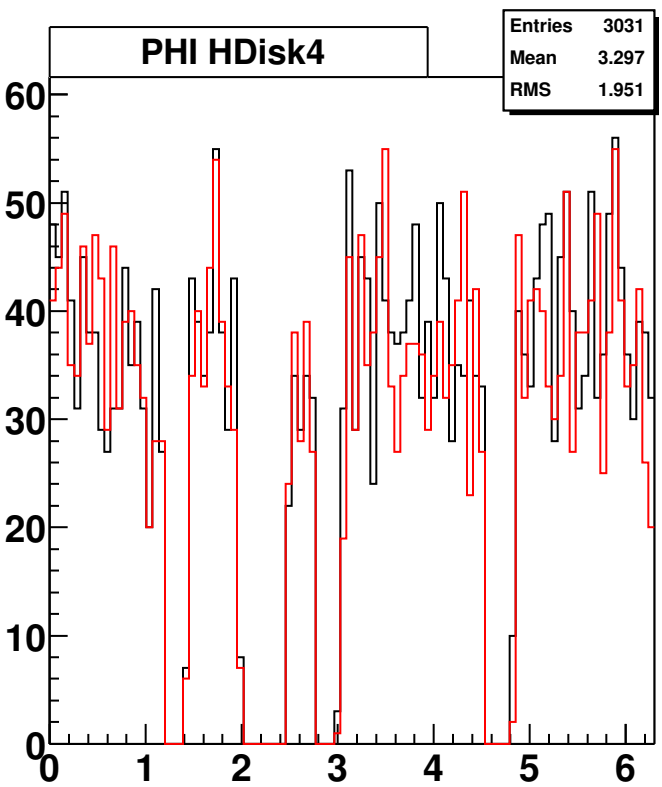


SmtClusters (FDiskClusters)

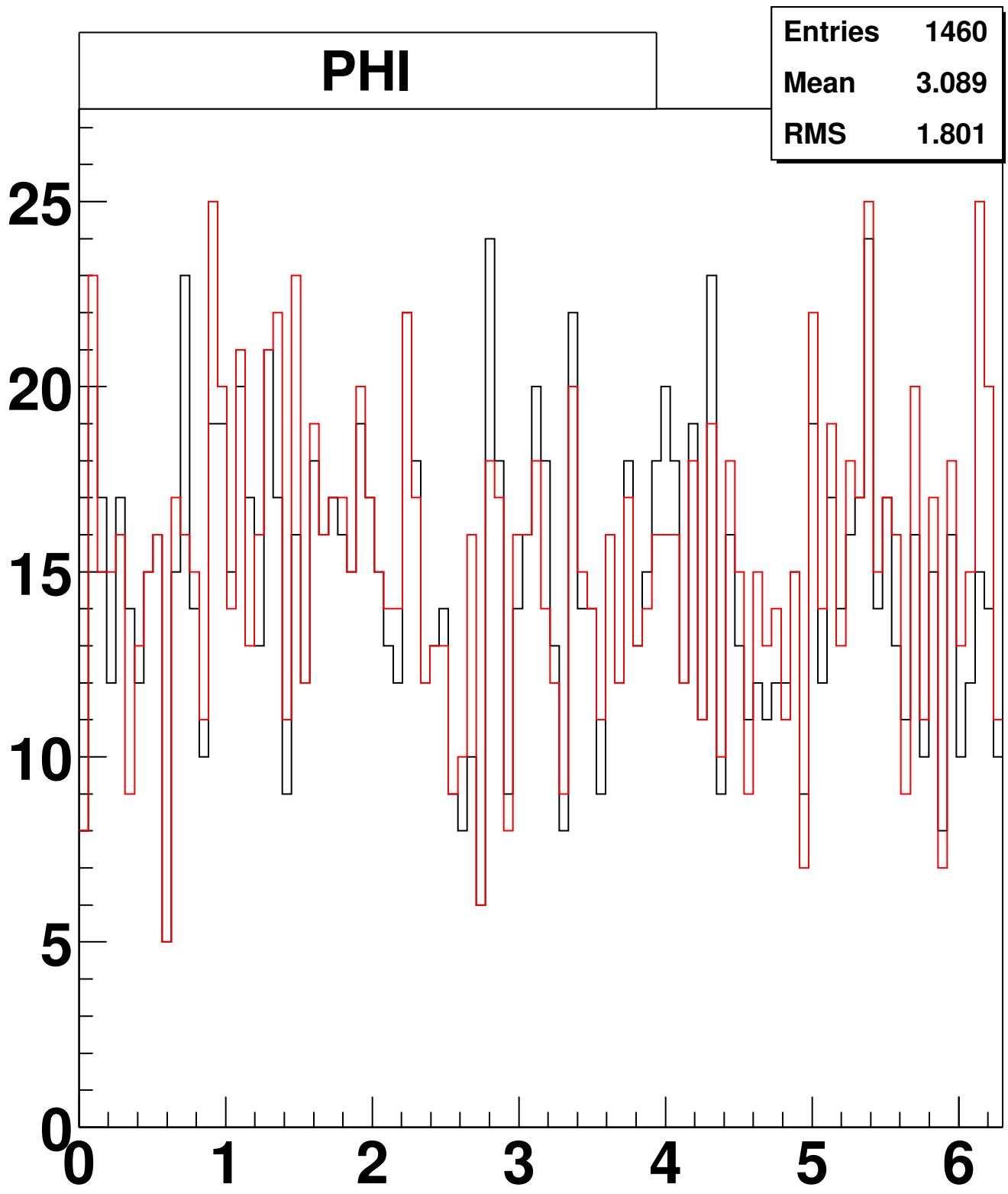


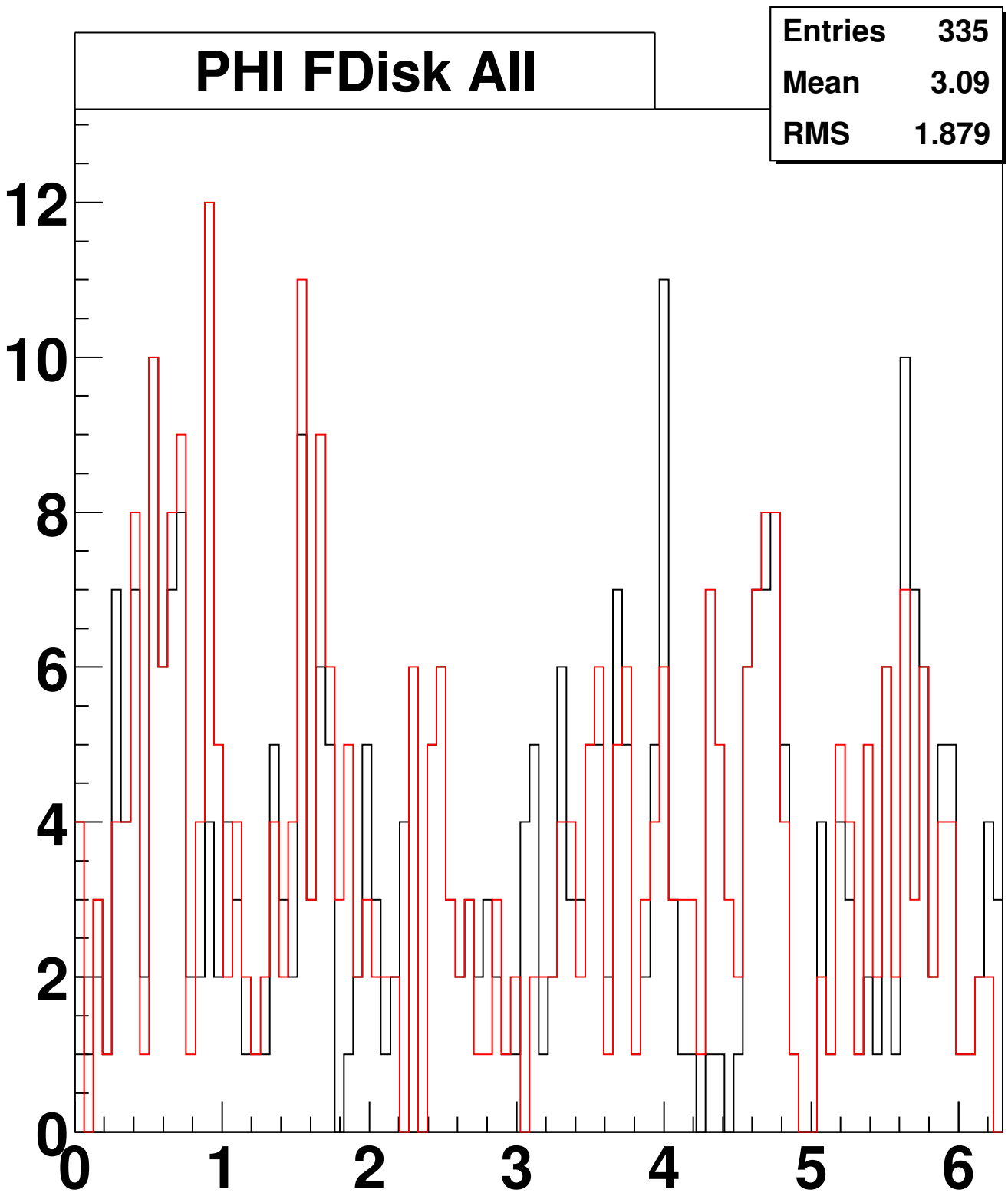


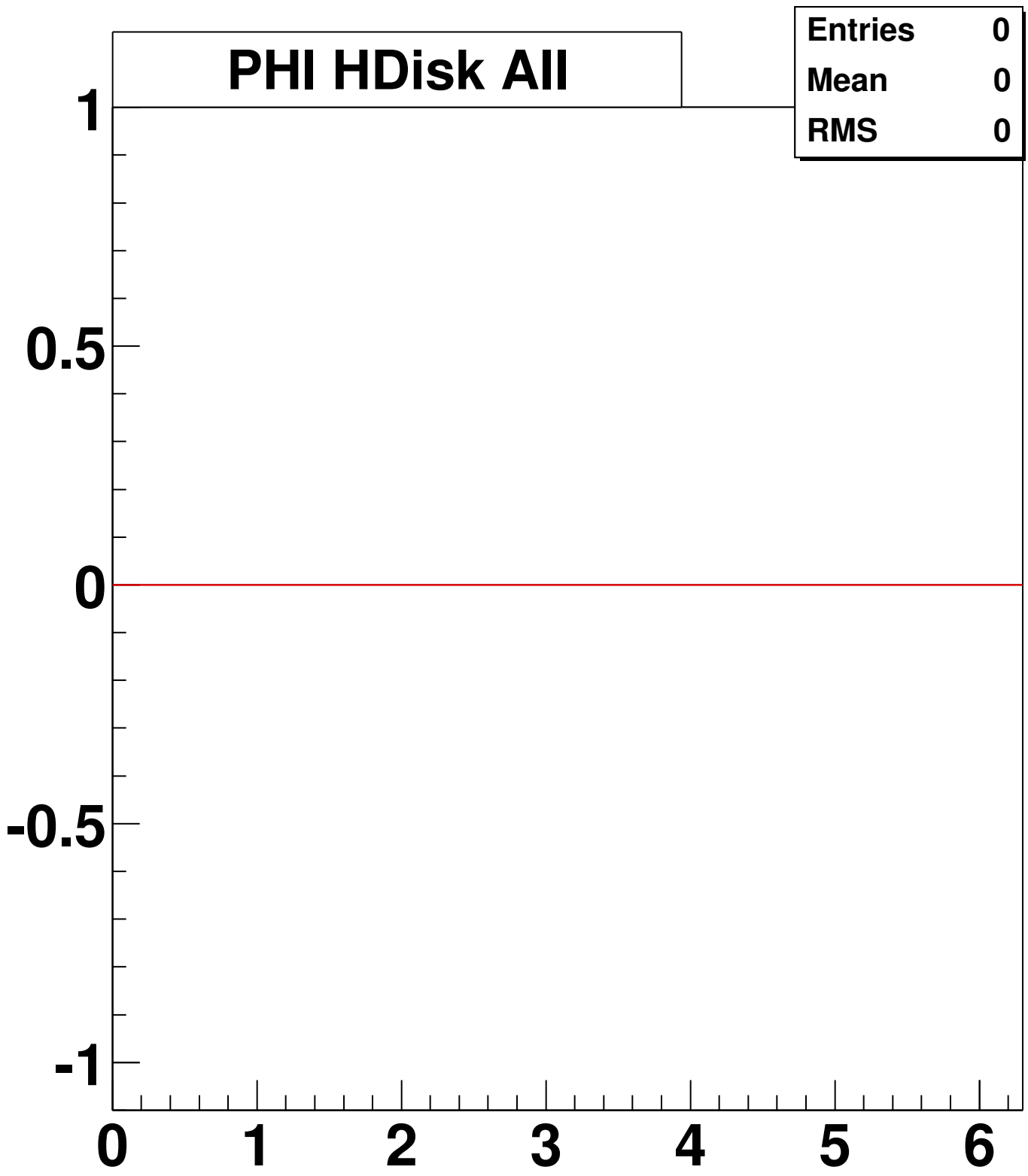


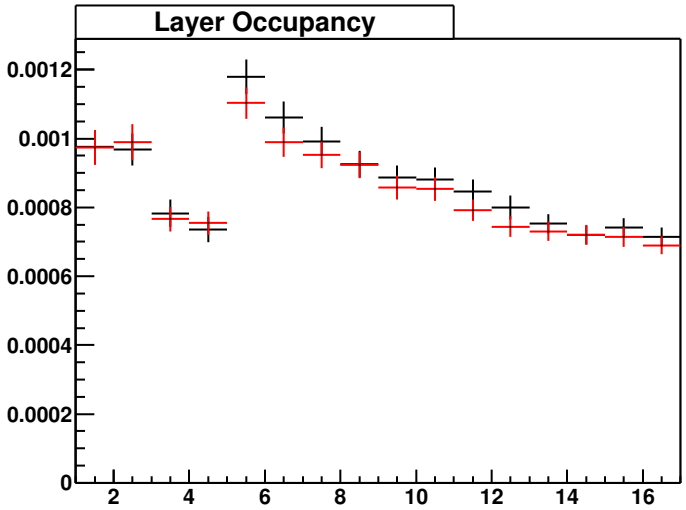


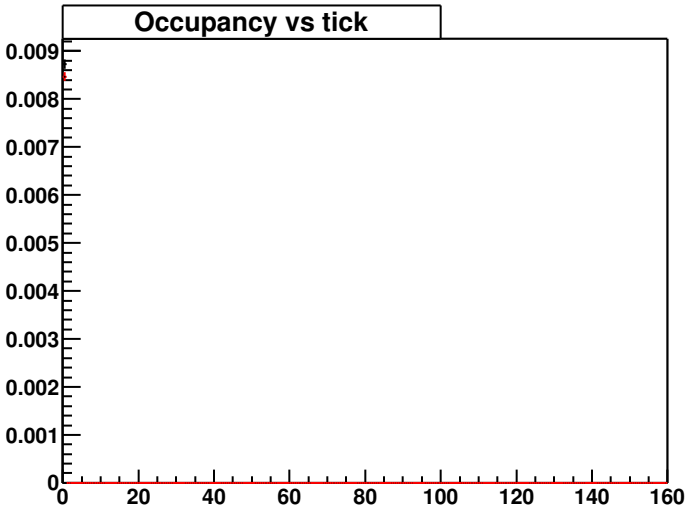
SmtClusters (HDiskClusters)

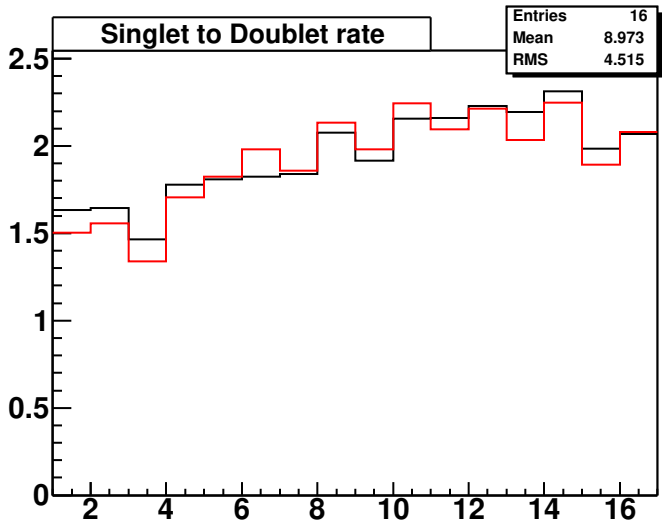

PHI
Entries 1460
Mean 3.089
RMS 1.801
25
20
15
10
5
0
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)

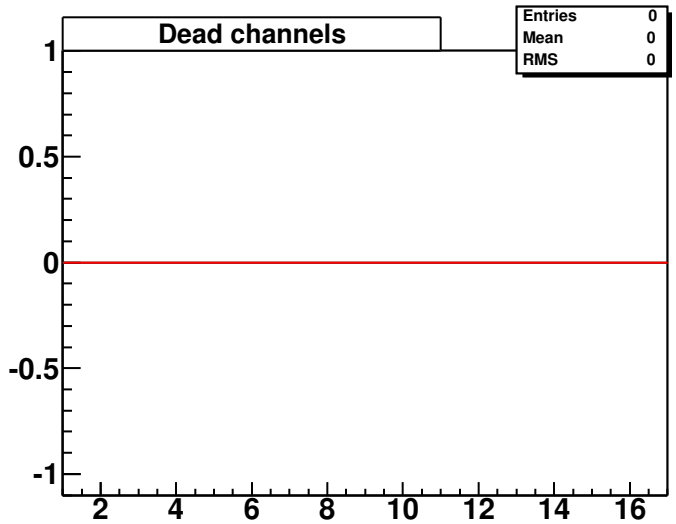

PHI FDisk All
Entries 335
Mean 3.09
RMS 1.879
0
2
4
6
8
10
12
0
1
2
3
4
5
6
SmtClusters (allFDiskTClusters)

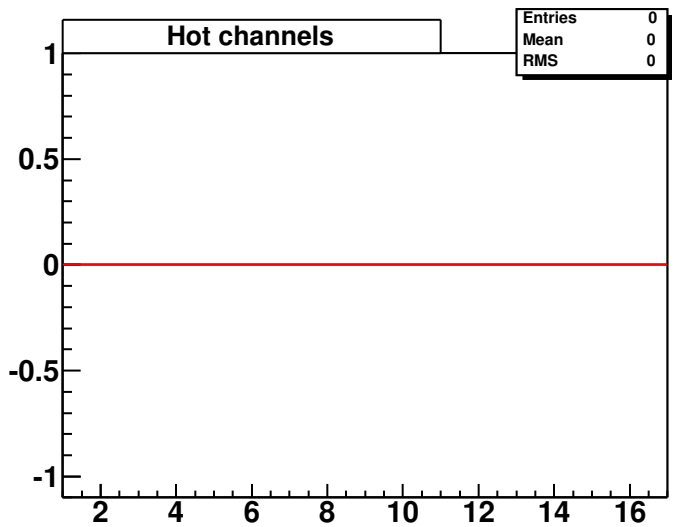

PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allHDiskTClusters)



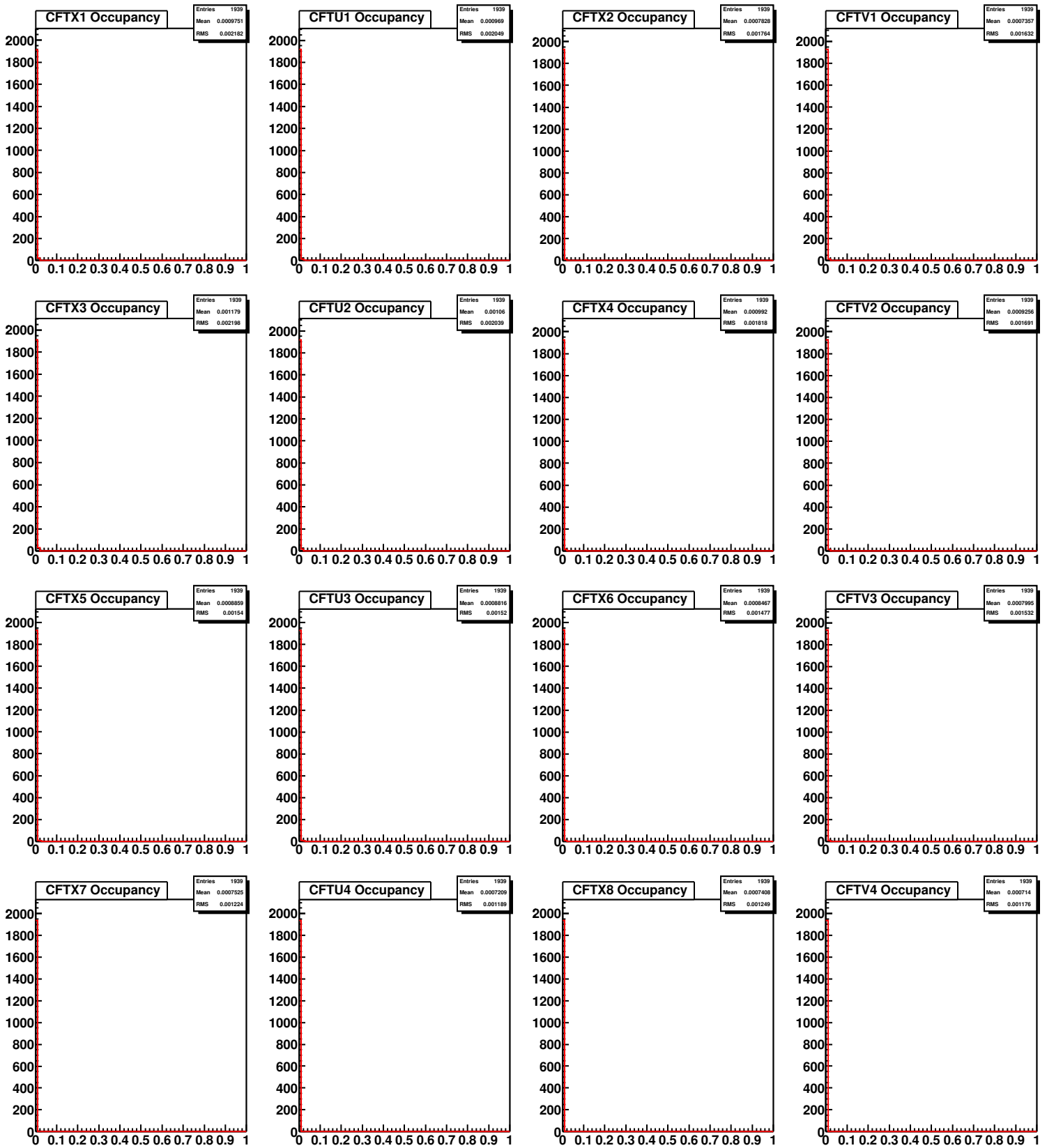




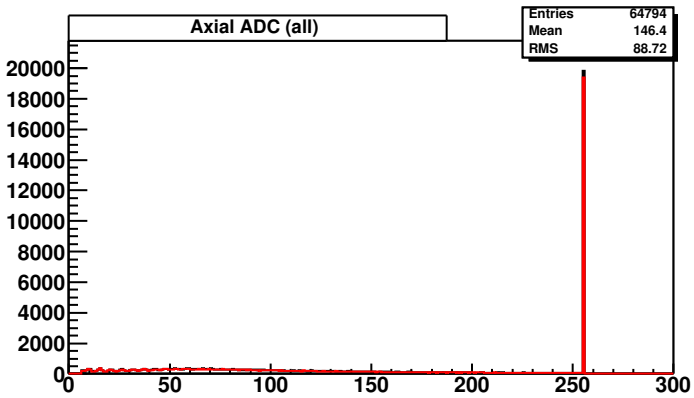


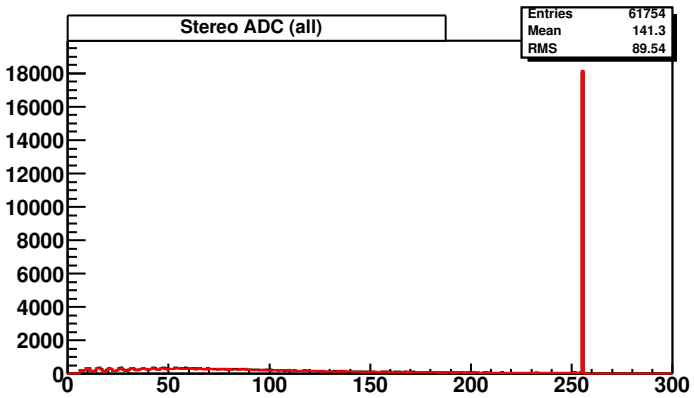


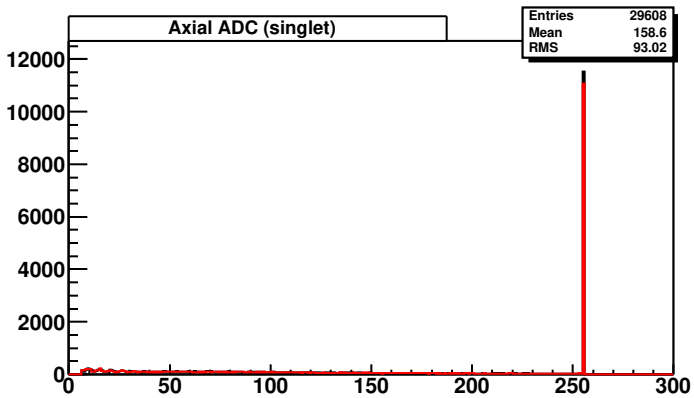
CFT Summary (All Clusters)

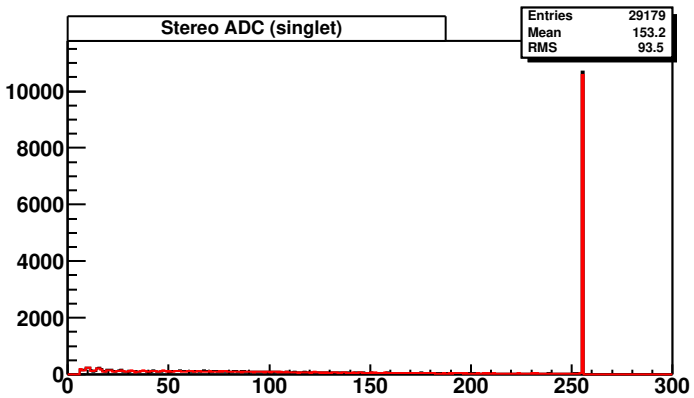


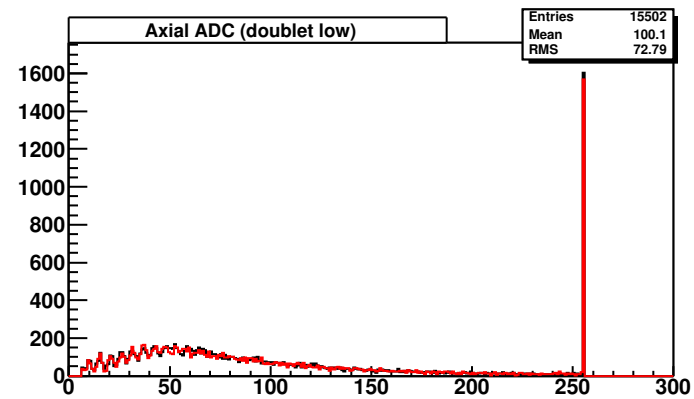
Cft Occupancy (All Clusters)

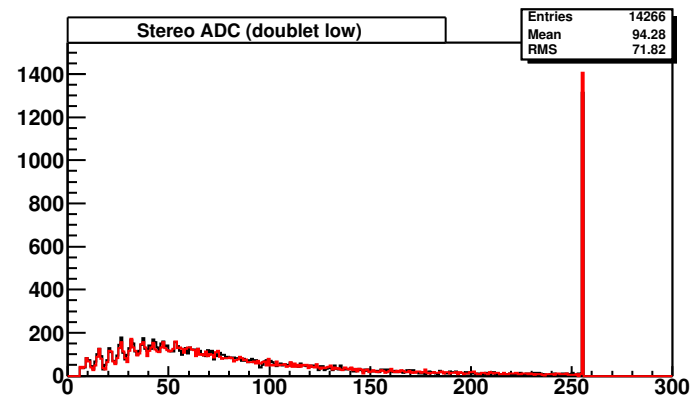


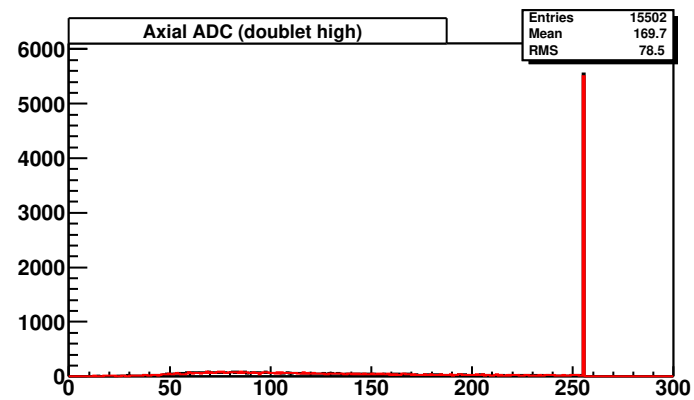


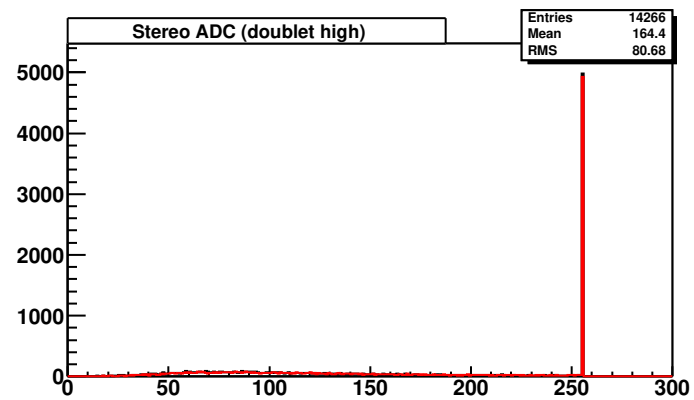




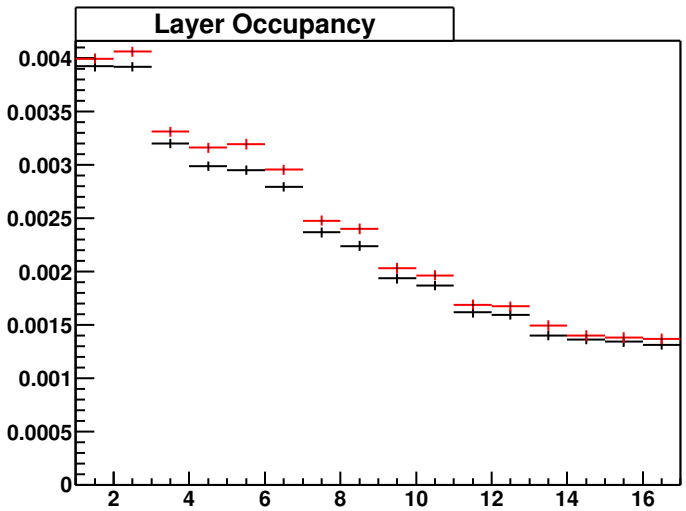


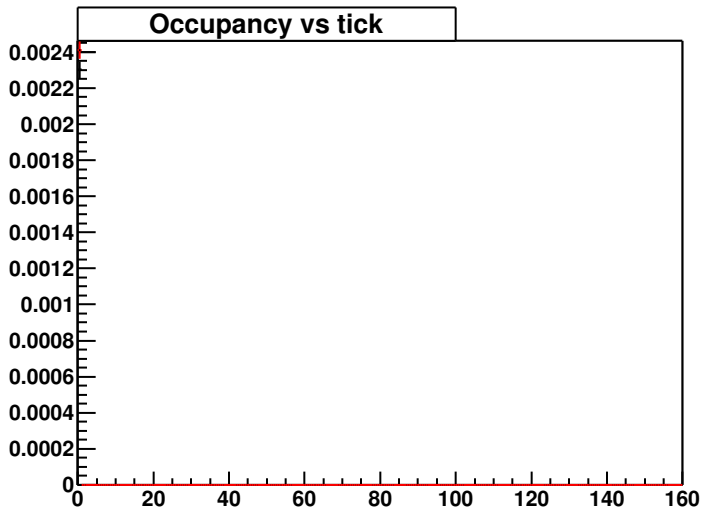


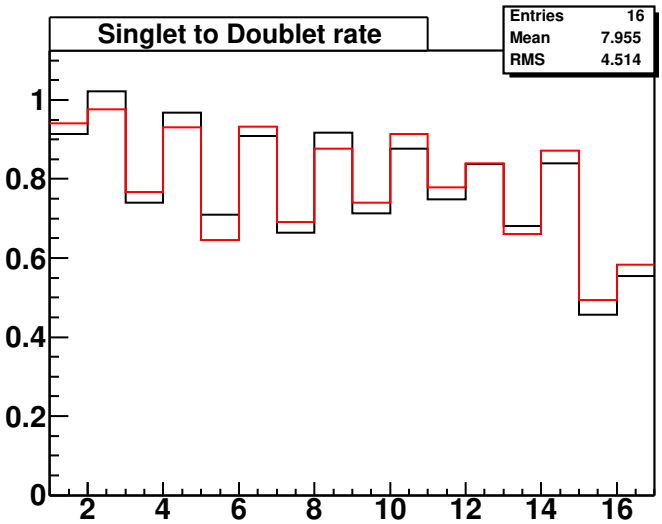


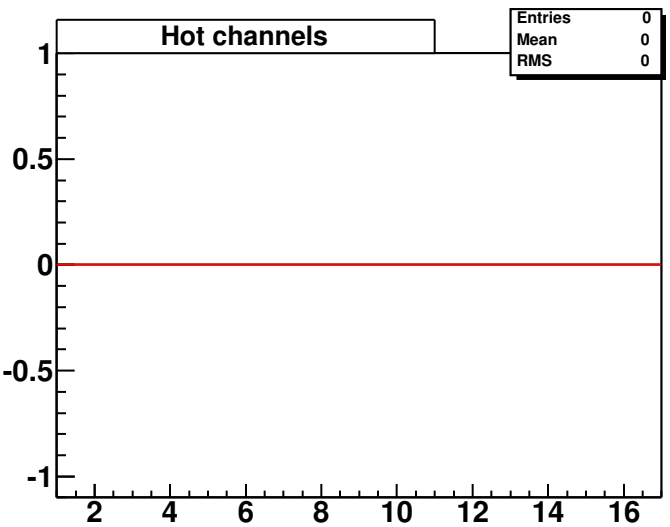


CFT ADC Summary (All Clusters)

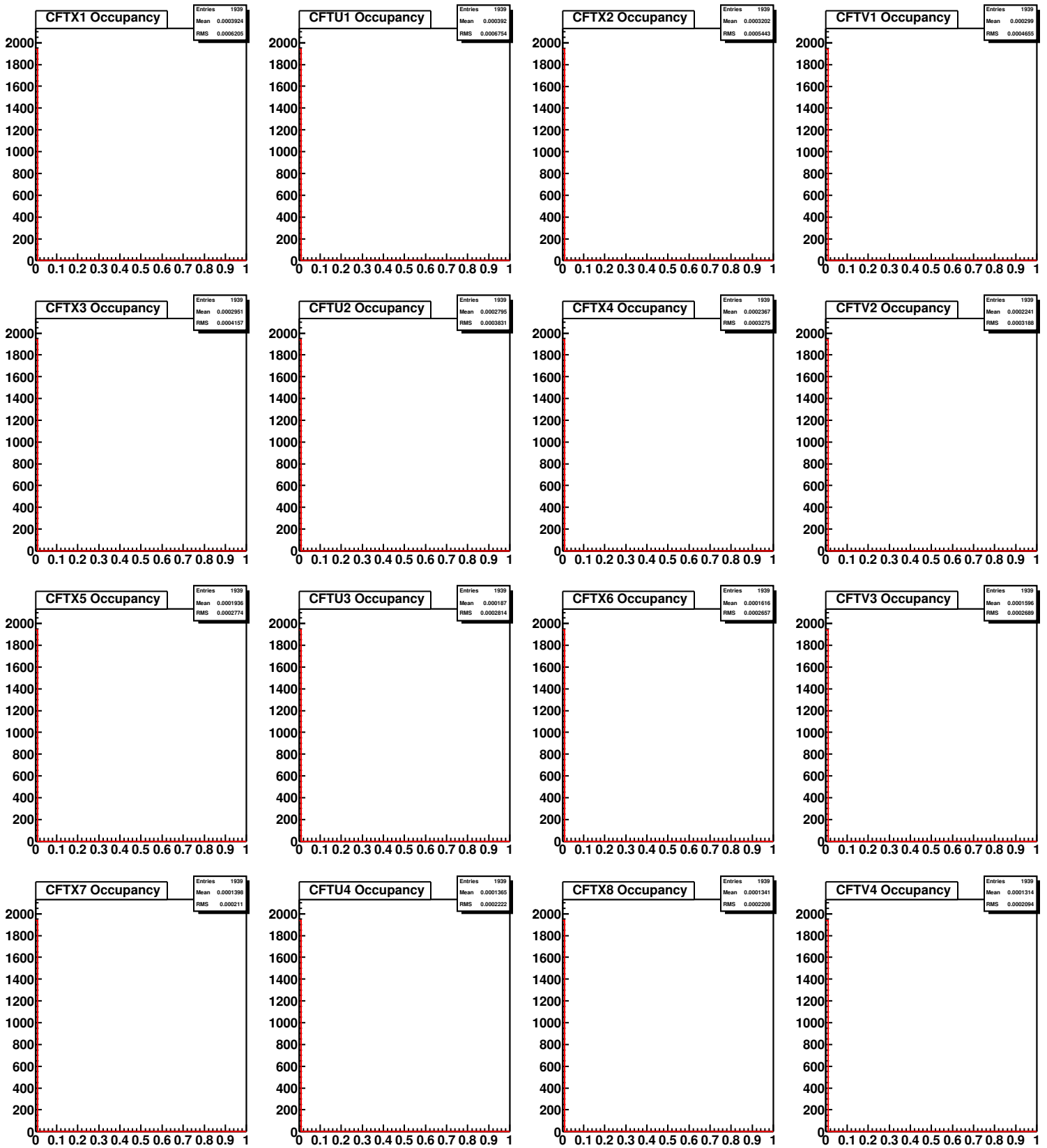




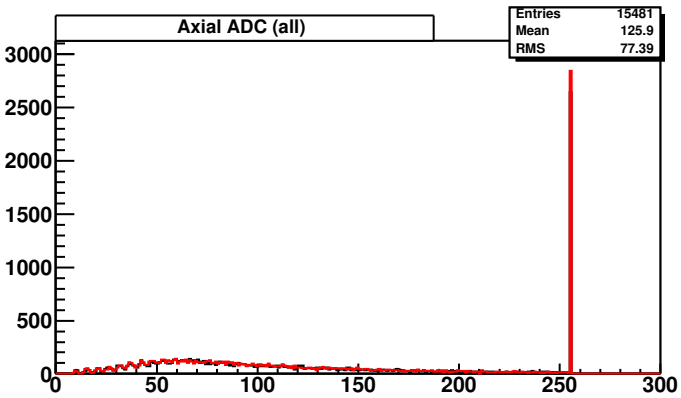


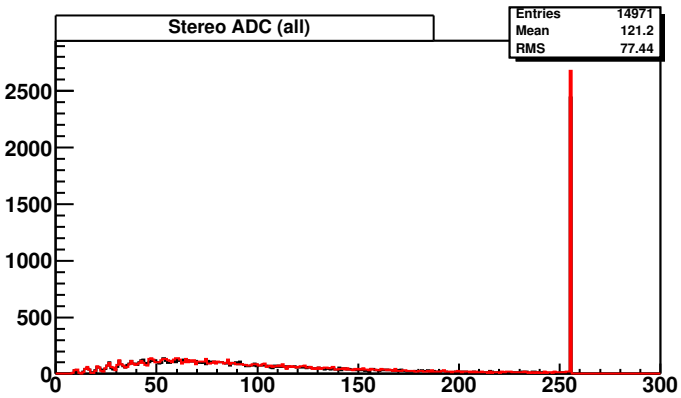


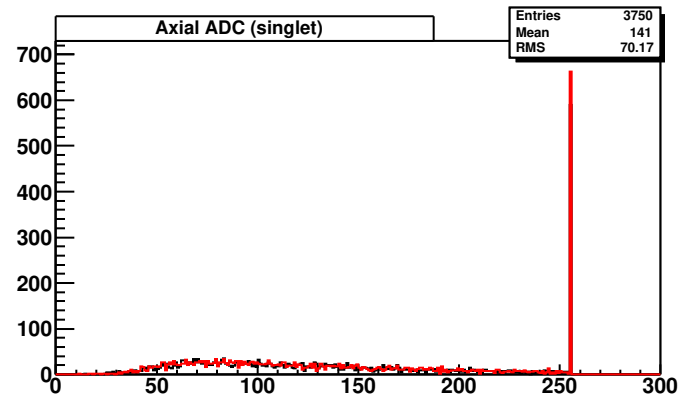
CFT Summary (Clusters on tracks)

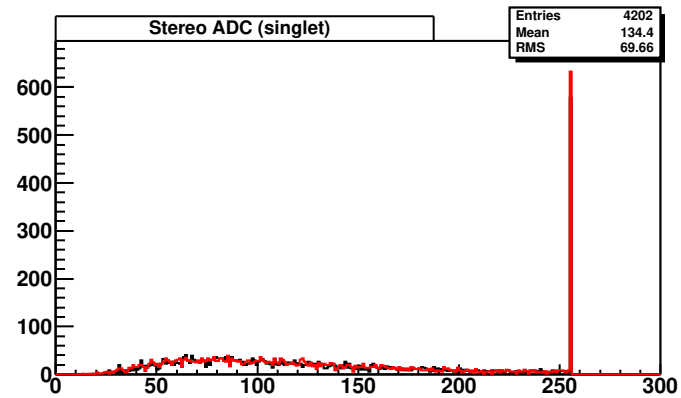


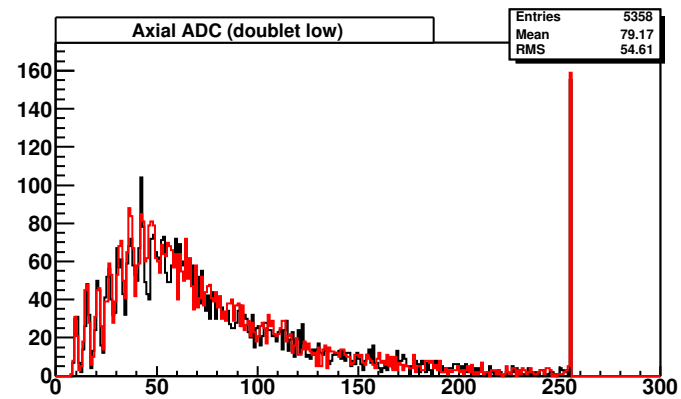
Cft Occupancy (Clusters on tracks)

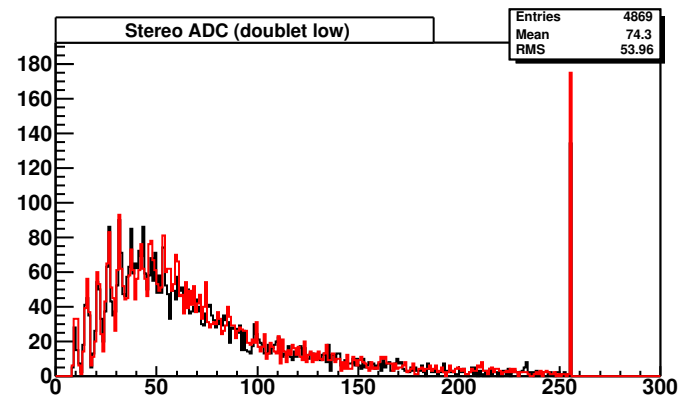


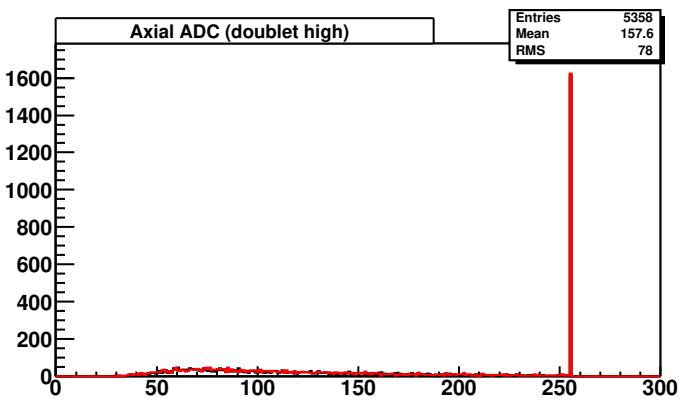


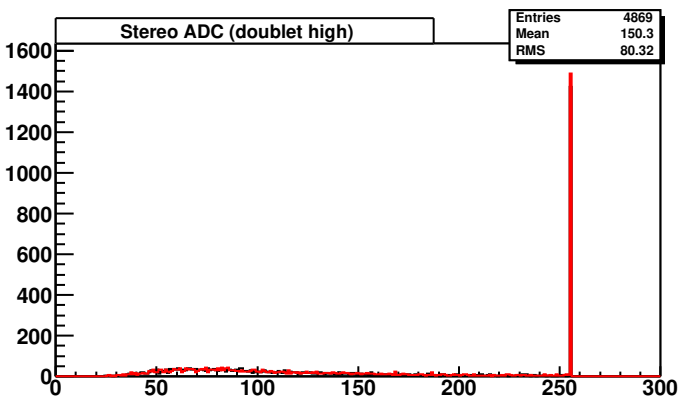




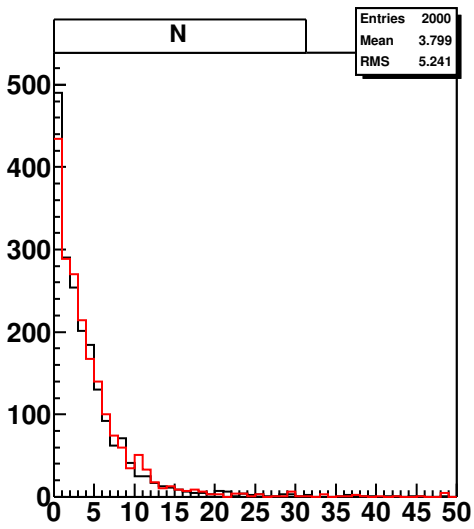


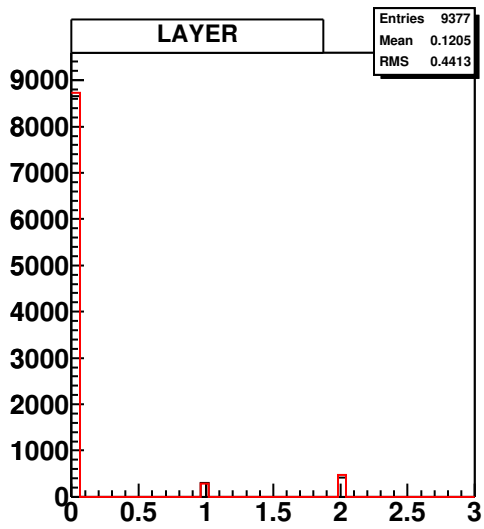


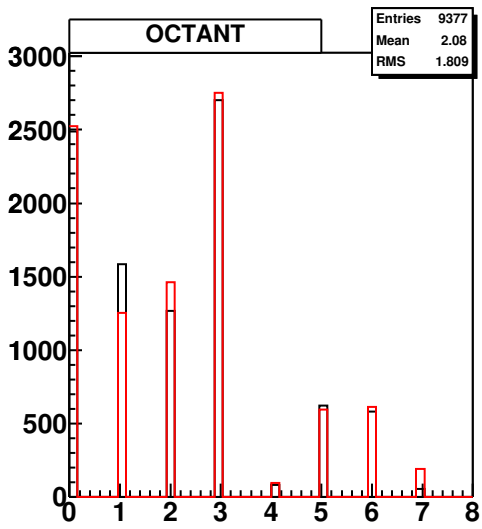


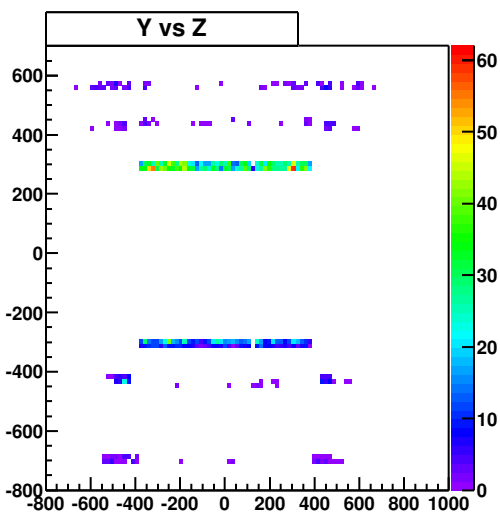


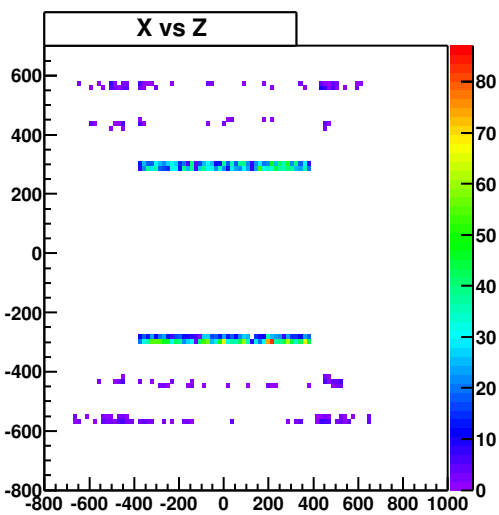
CFT ADC Summary (Clusters on tracks)

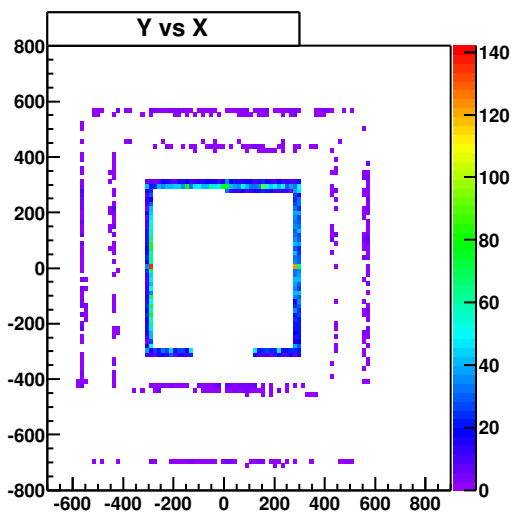

N
Entries 2000
Mean 3.799
RMS 5.241

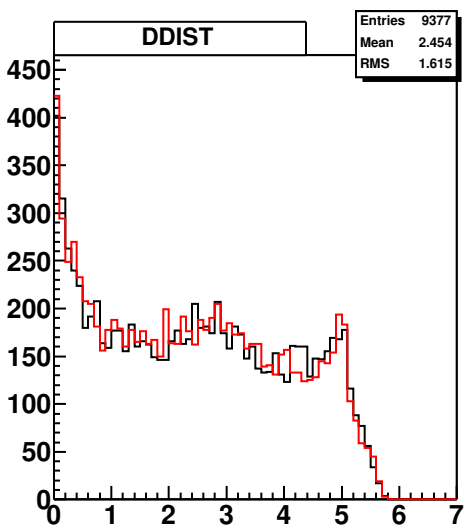

LAYER
Entries 9377
Mean 0.1205
RMS 0.4413

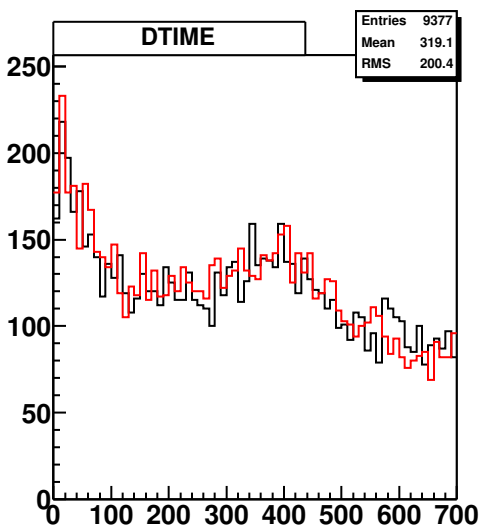

OCTANT
Entries 9377
Mean 2.08
RMS 1.809


Y vs Z

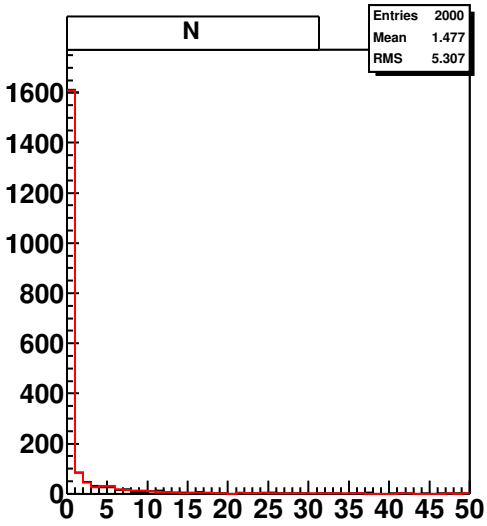

X vs Z

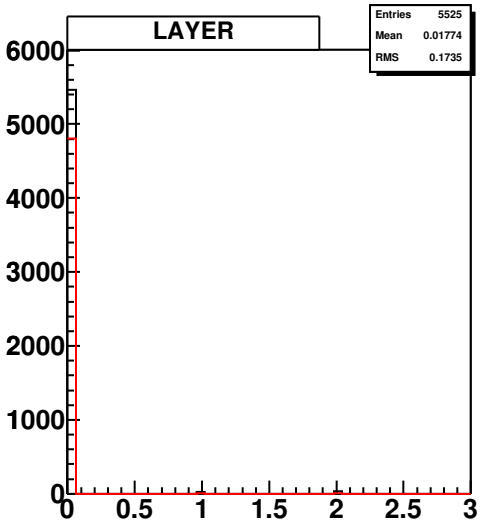

Y vs X

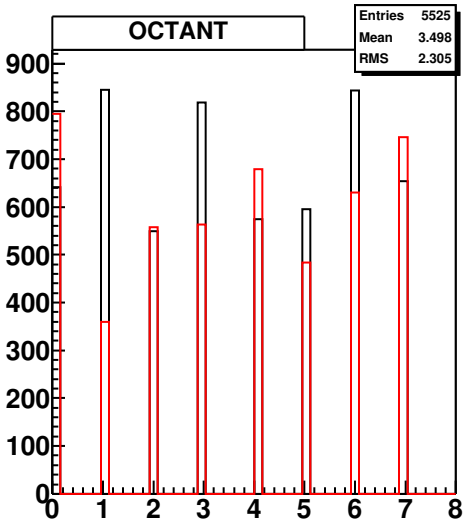

DDIST
Entries 9377
Mean 2.454
RMS 1.615

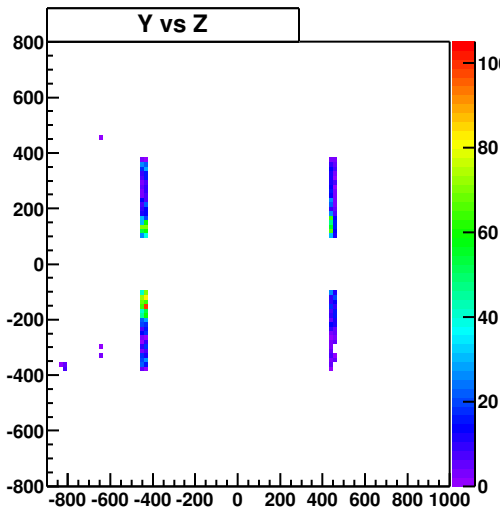

DTIME
Entries 9377
Mean 319.1
RMS 200.4

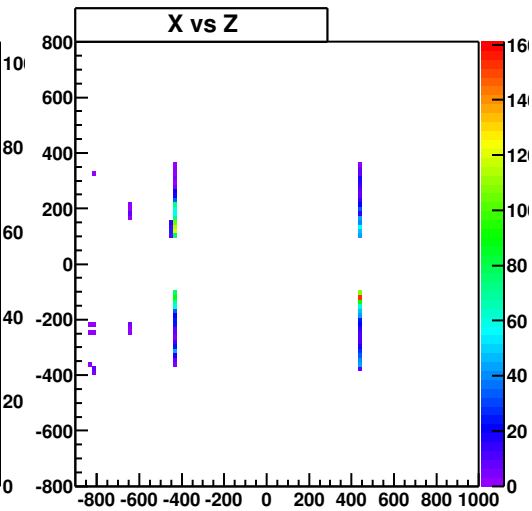
MuonPDT (All)

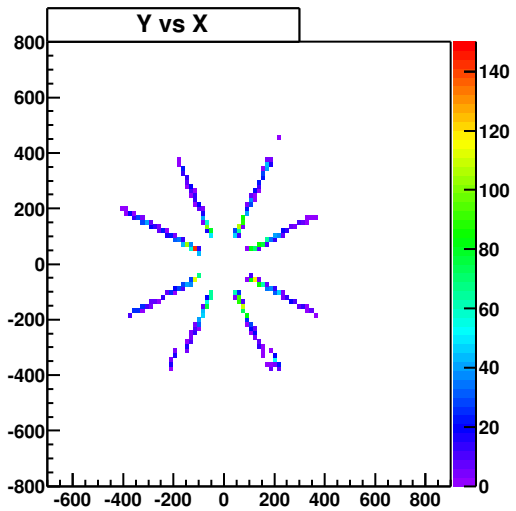

N
Entries 2000
Mean 1.477
RMS 5.307

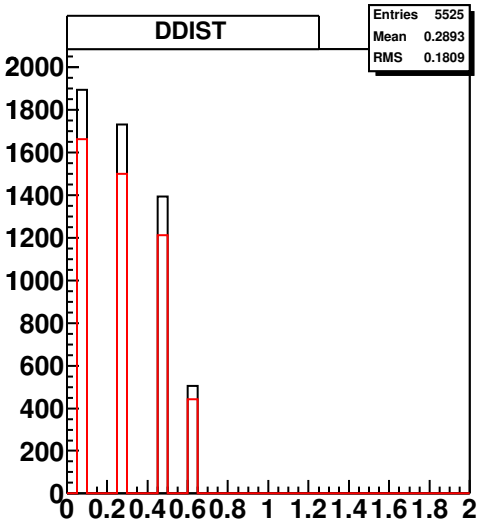

LAYER
Entries 5525
Mean 0.01774
RMS 0.1735

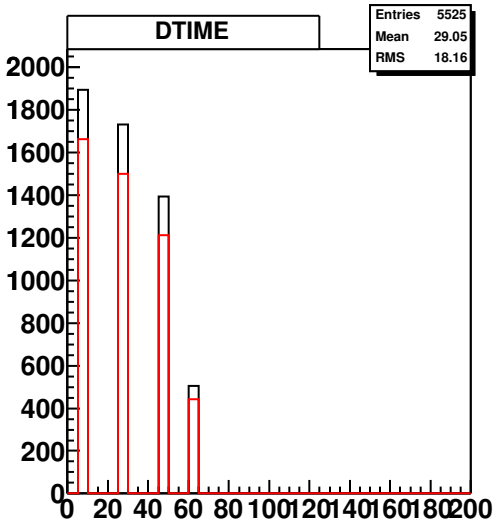

OCTANT
Entries 5525
Mean 3.498
RMS 2.305


Y vs Z

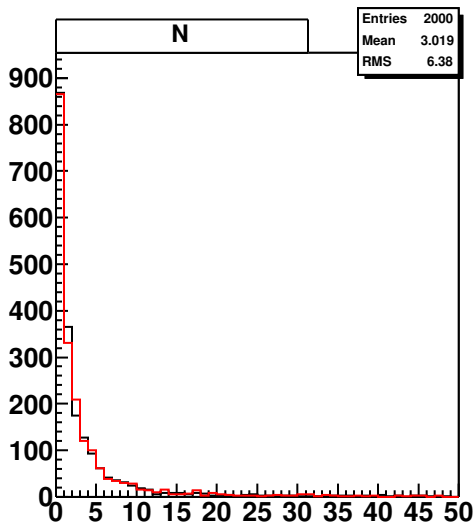

X vs Z

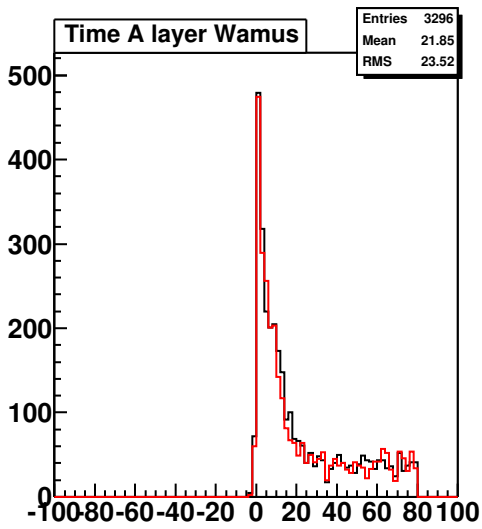

Y vs X

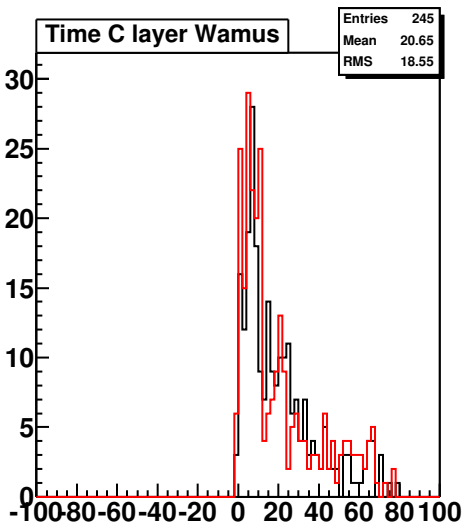

DDIST
Entries 5525
Mean 0.2893
RMS 0.1809

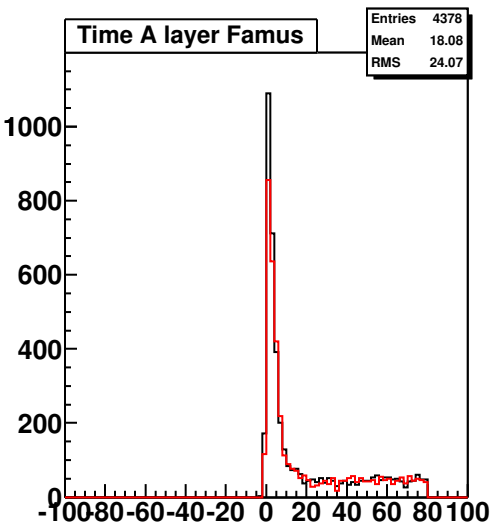

DTIME
Entries 5525
Mean 29.05
RMS 18.16

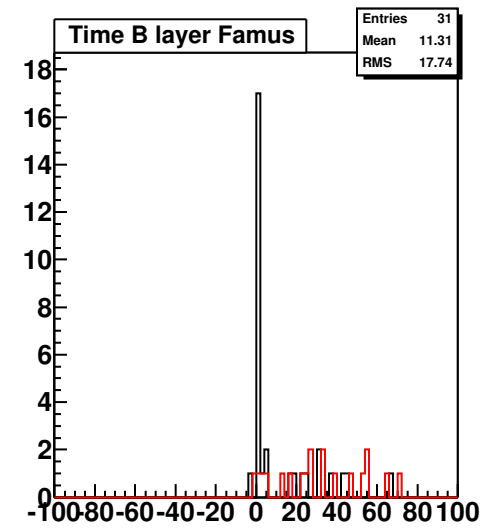
MuonMDT (All)

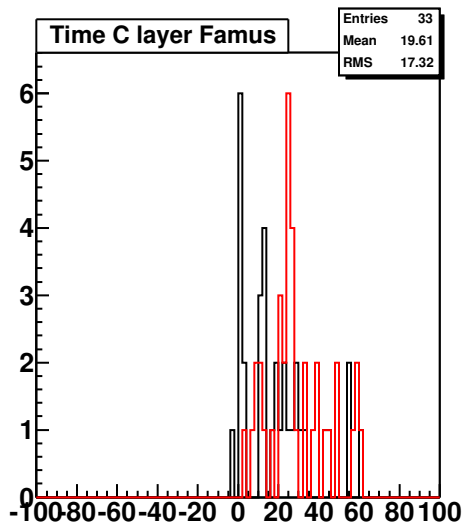

N
Entries 2000
Mean 3.019
RMS 6.38

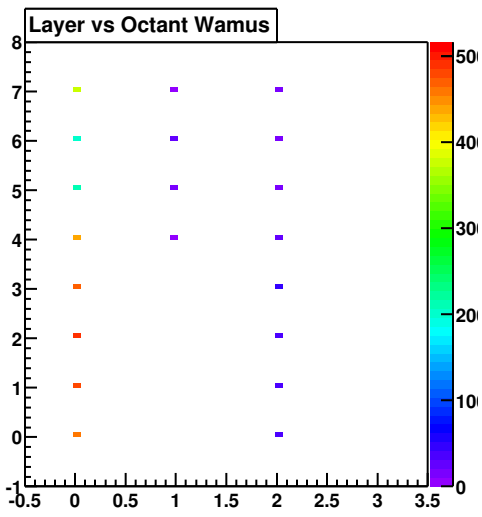

Time A layer Wamus
Entries 3296
Mean 21.85
RMS 23.52

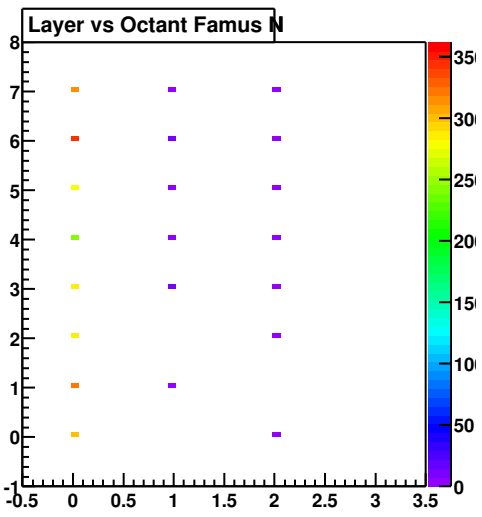

Time C layer Wamus
Entries 245
Mean 20.65
RMS 18.55

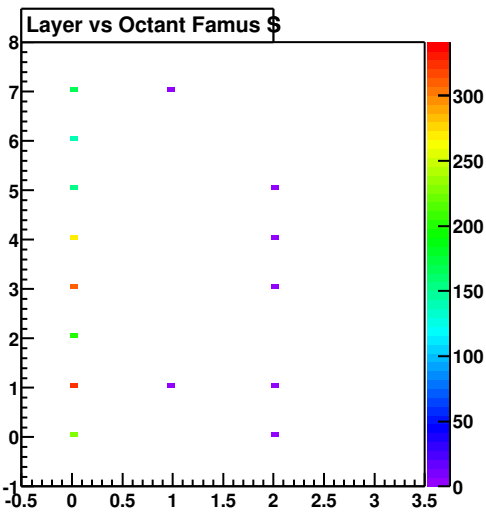

Time A layer Famus
Entries 4378
Mean 18.08
RMS 24.07


Time B layer Famus
Entries 31
Mean 11.31
RMS 17.74

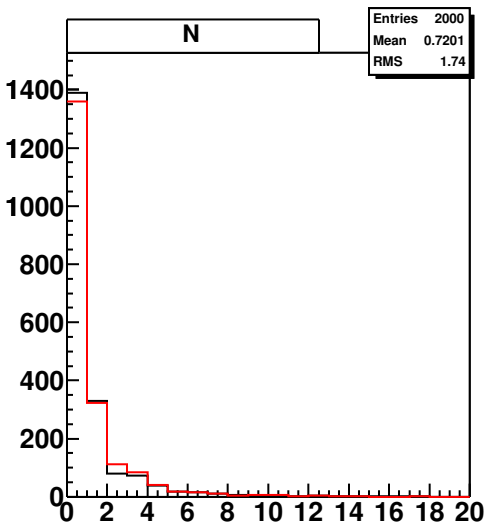

Time C layer Famus
Entries 33
Mean 19.61
RMS 17.32

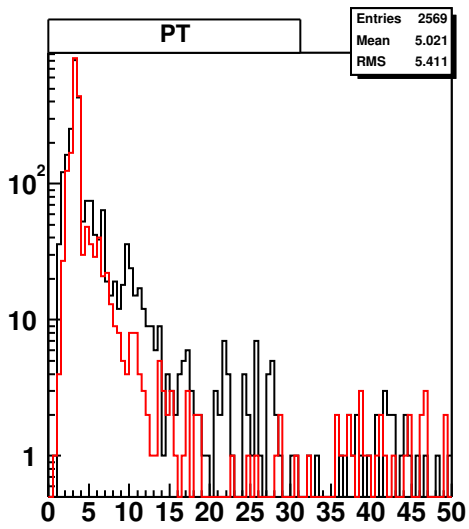

Layer vs Octant Wamus

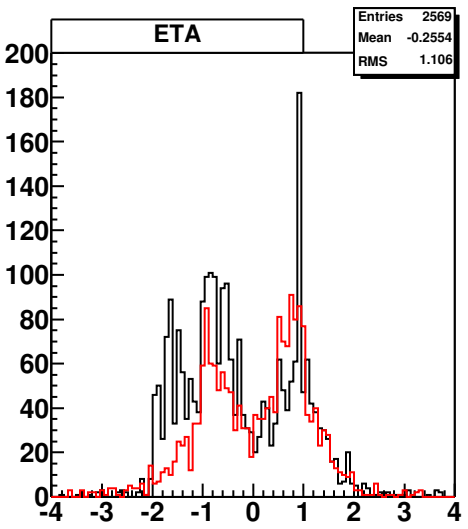

Layer vs Octant Famus N

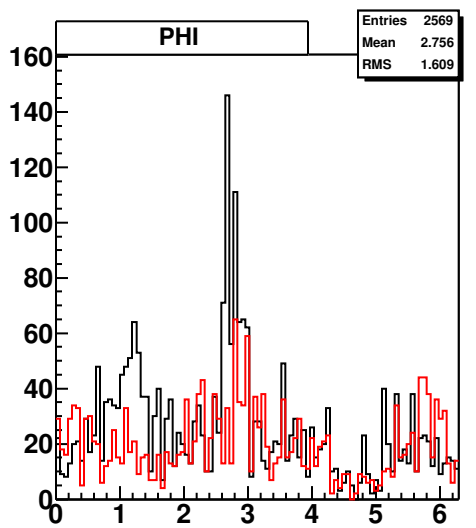

Layer vs Octant Famus $

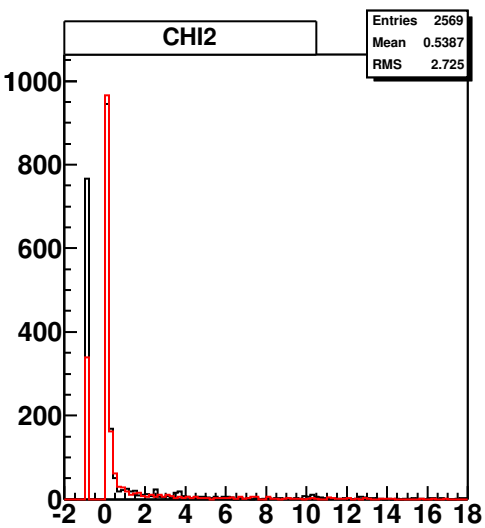
MuonMSC (All)

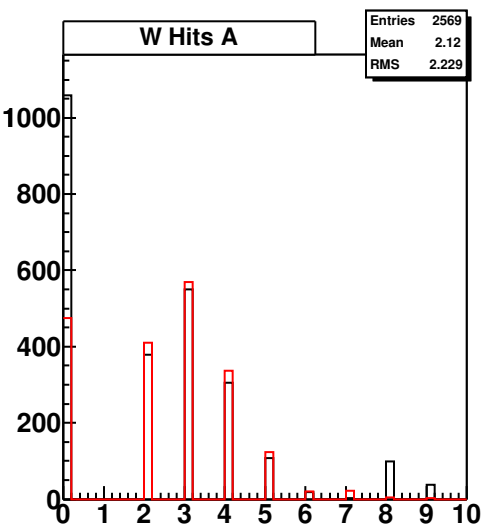


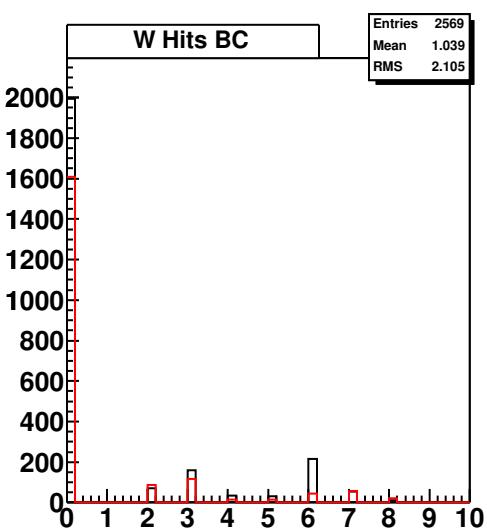


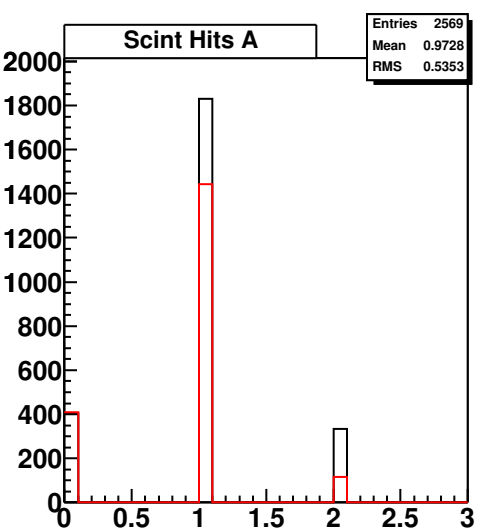


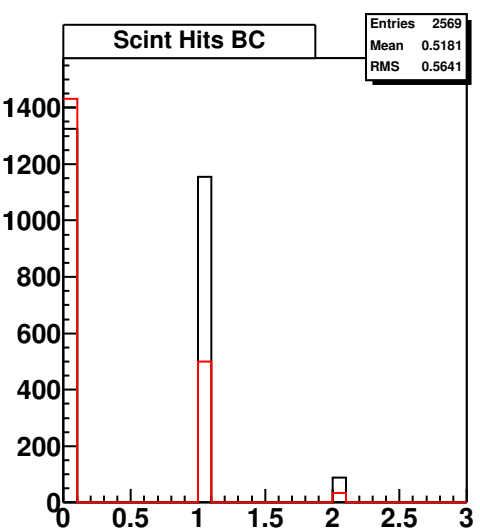




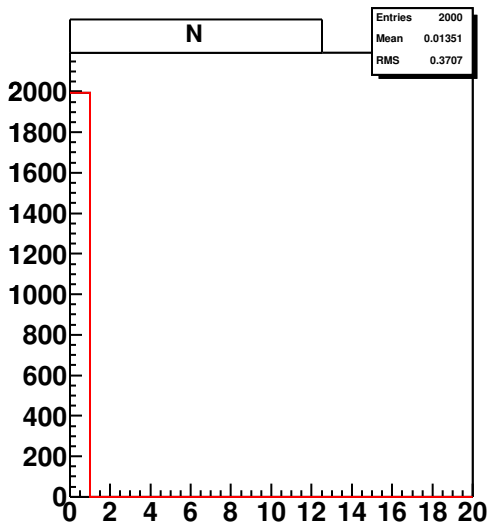


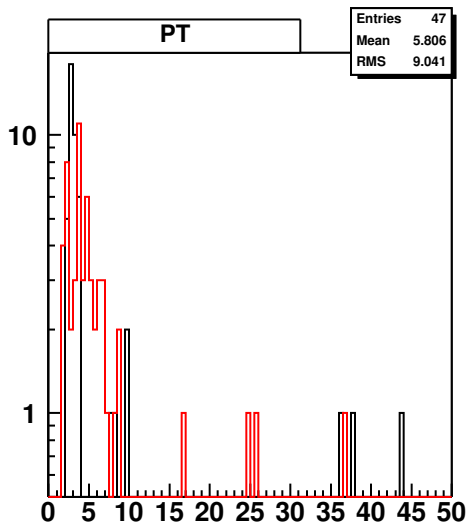


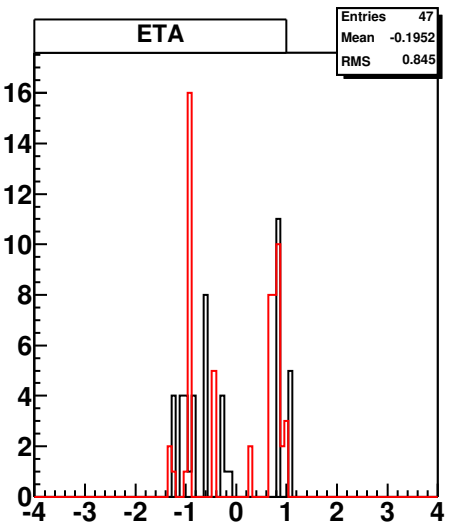


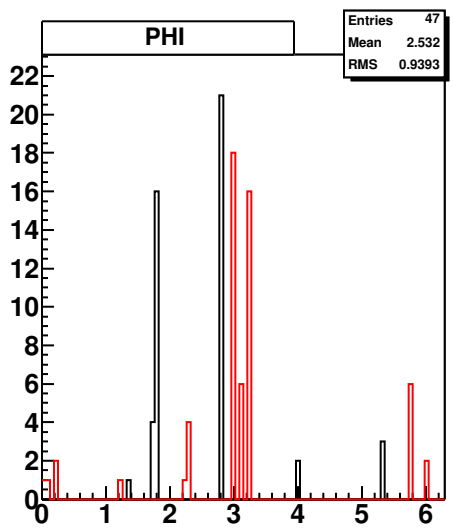


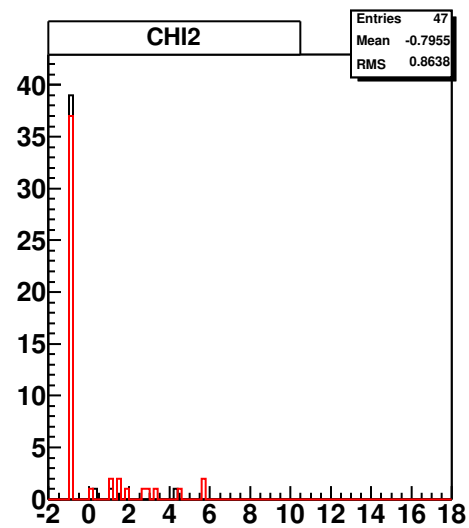
Muon Local Tracks (All)

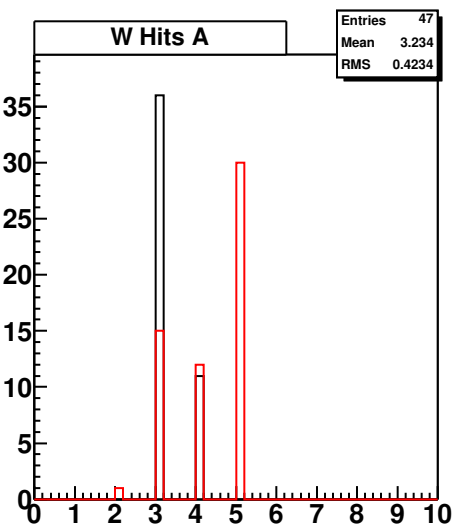


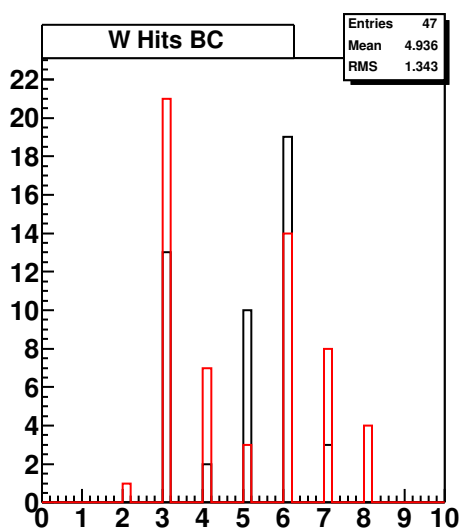


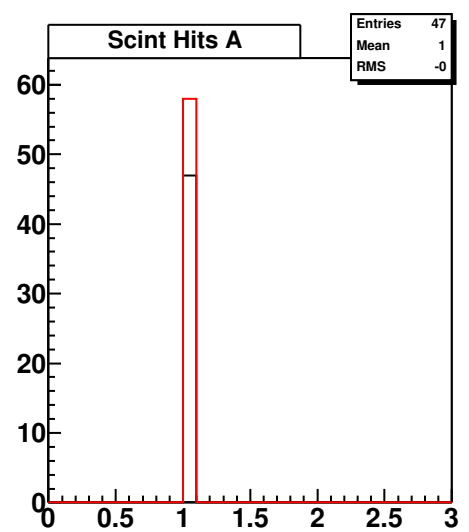


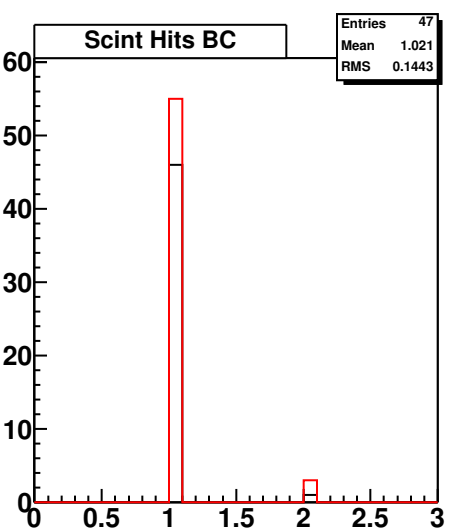




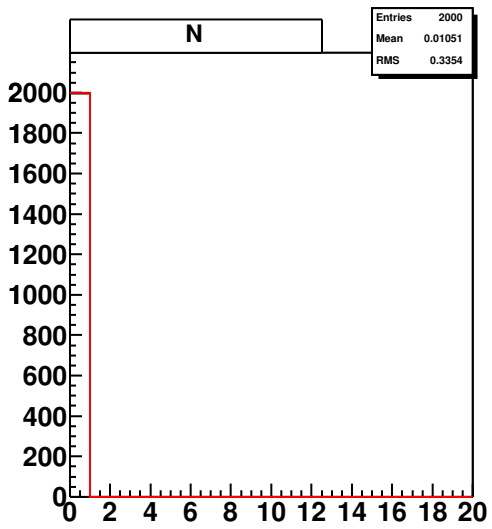


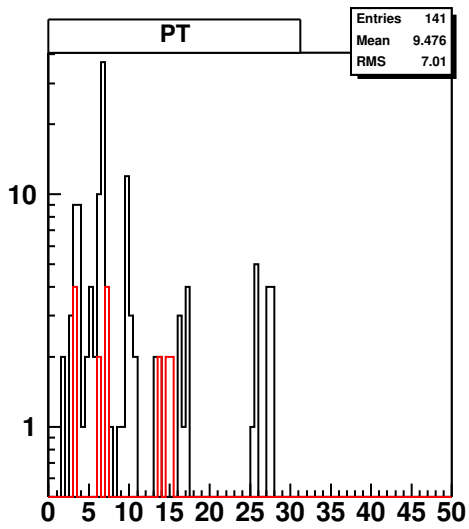


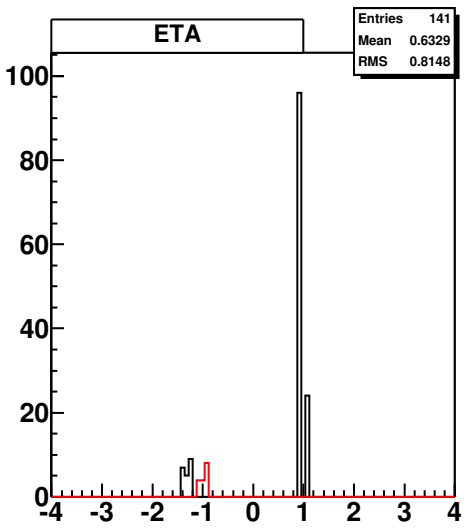


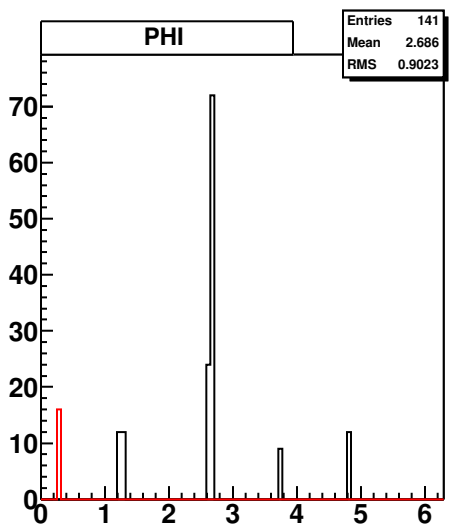


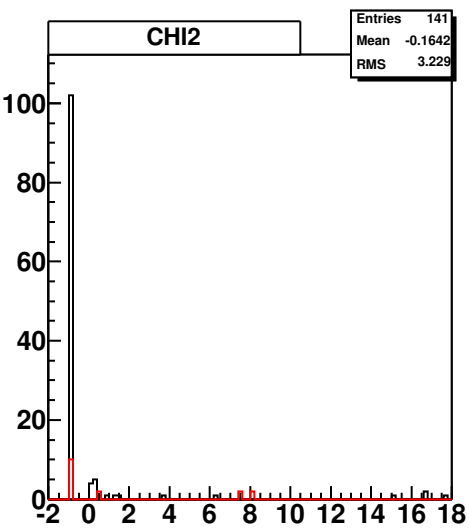
Muon Local Tracks (MediumWamus)

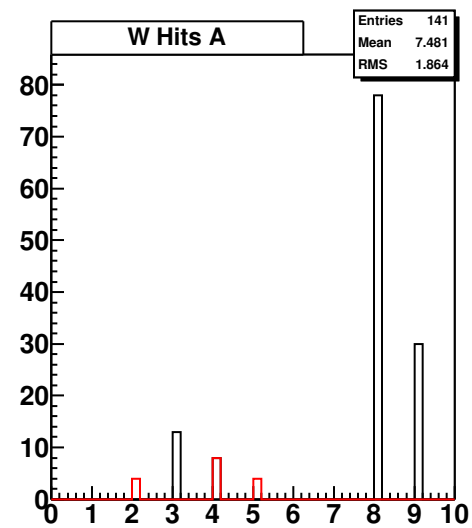


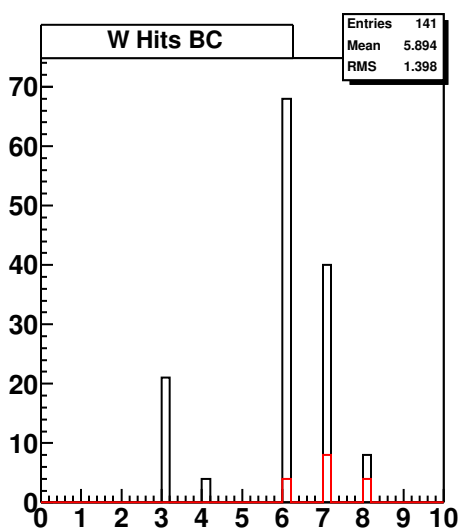


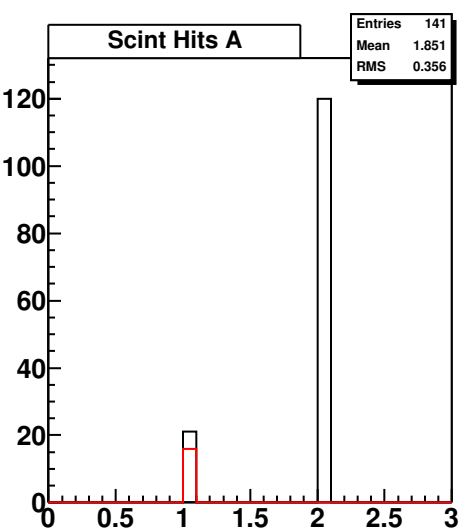


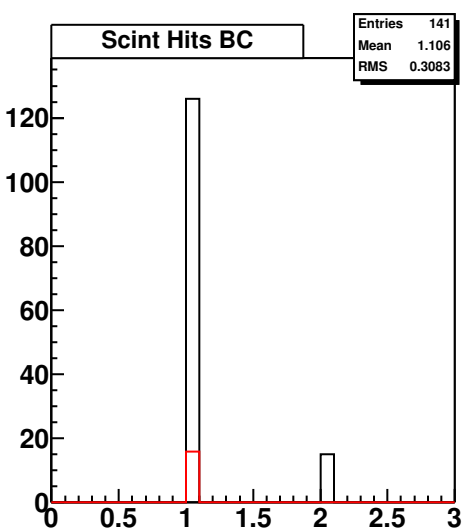




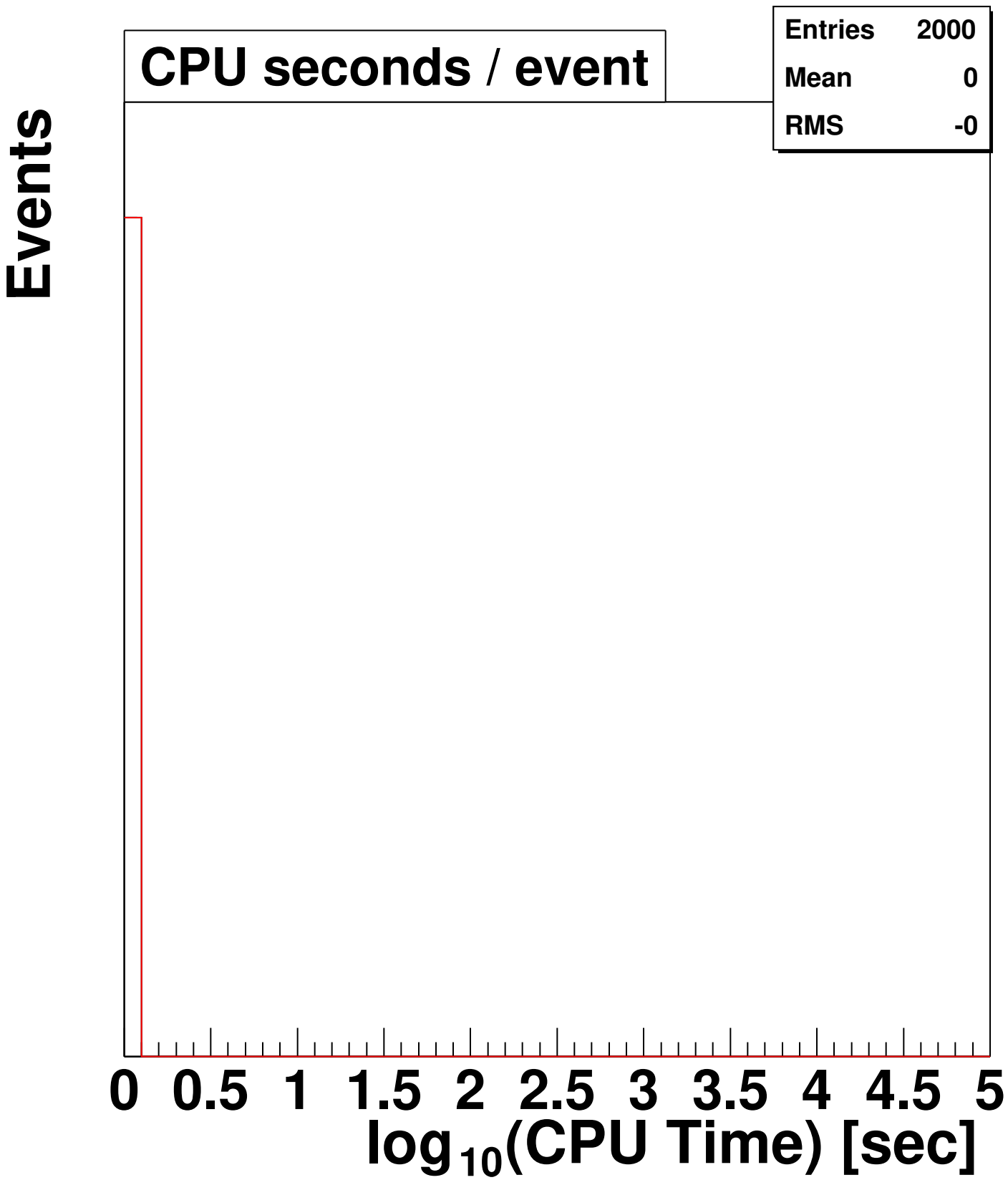








Muon Local Tracks (MediumFamus)



RECO Performance (Timing)