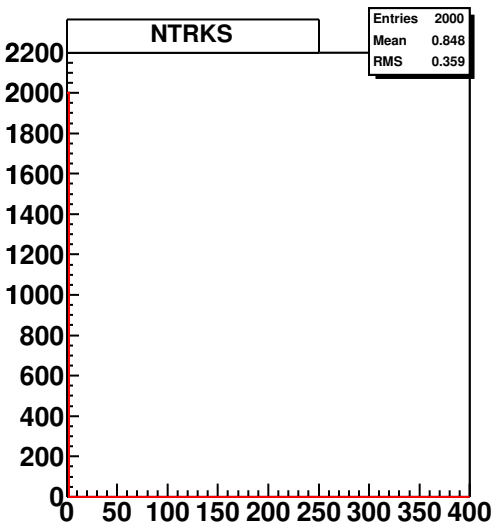
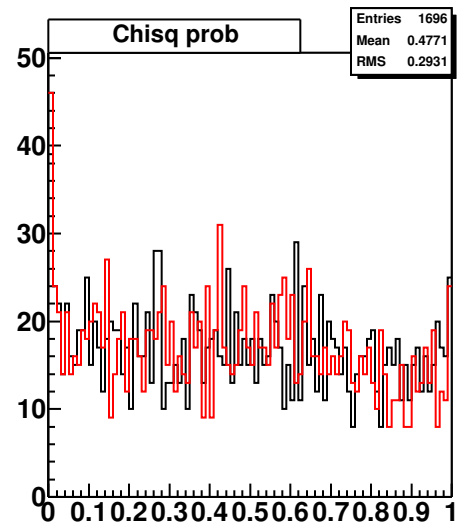
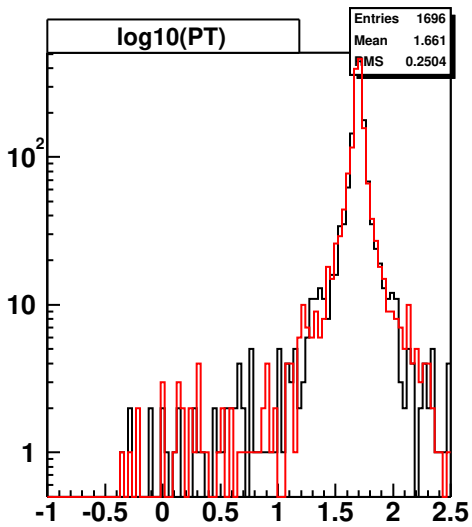
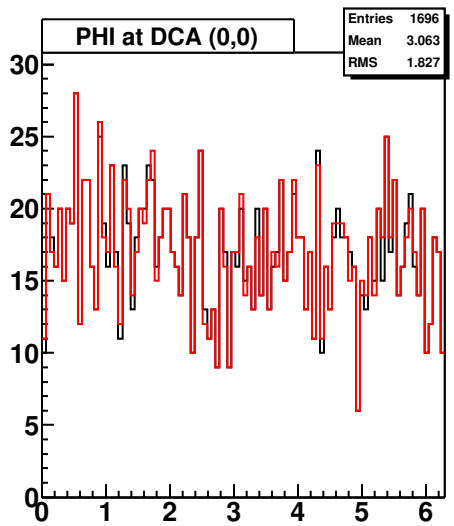
p140502_muon.root

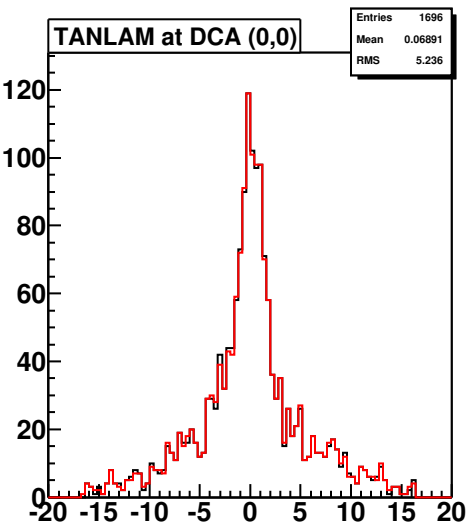
p140700_muon.root

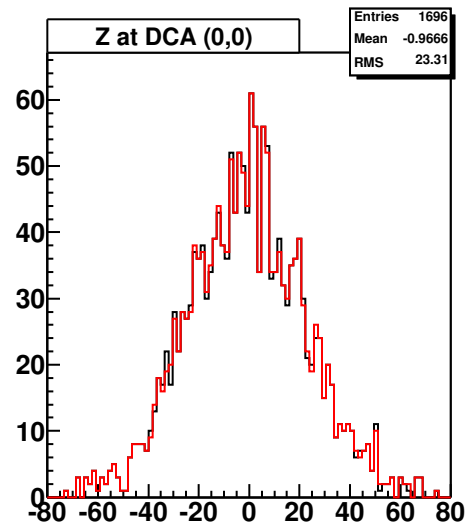

NTRKS
Entries 2000
Mean 0.848
RMS 0.359

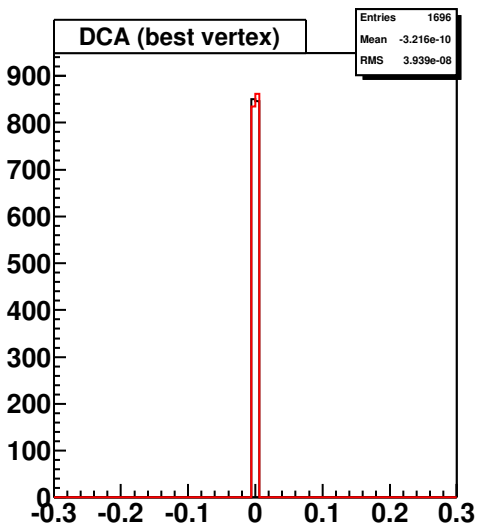

Chisq prob
Entries 1696
Mean 0.4771
RMS 0.2931

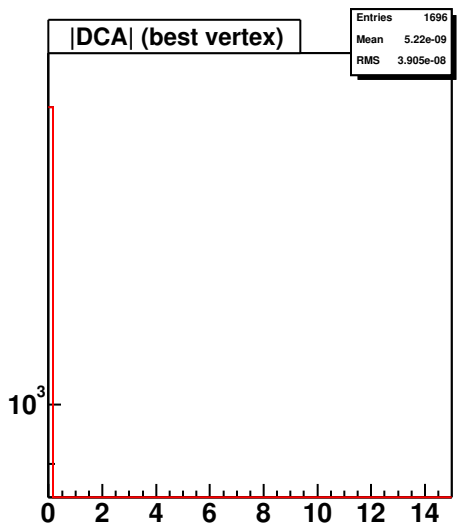

log10(PT)
Entries 1696
Mean 1.661
RMS 0.2504

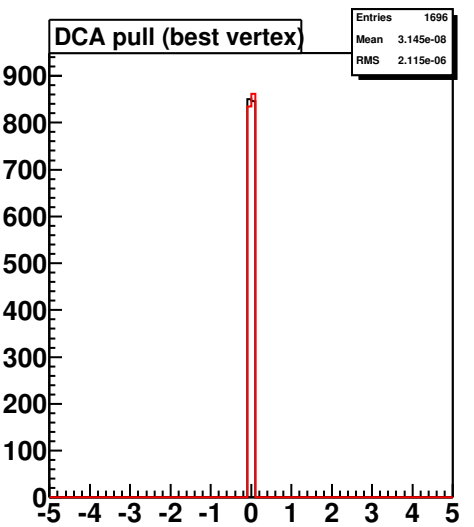

PHI at DCA (0,0)
Entries 1696
Mean 3.063
RMS 1.827


TANLAM at DCA (0,0)
Entries 1696
Mean 0.06891
RMS 5.236

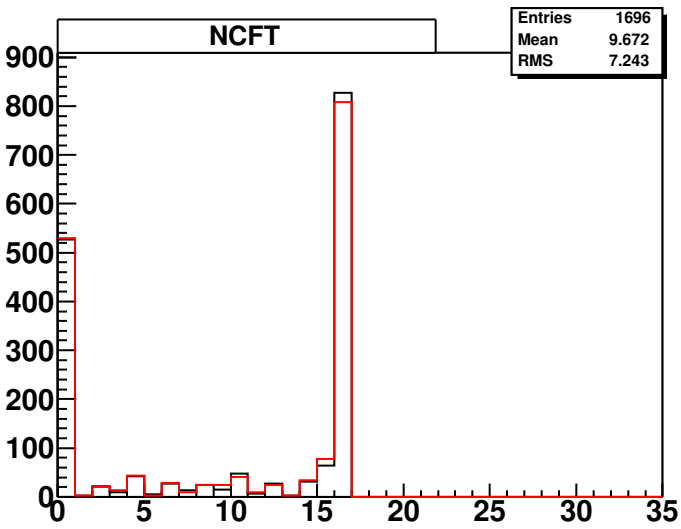

Z at DCA (0,0)
Entries 1696
Mean -0.9666
RMS 23.31

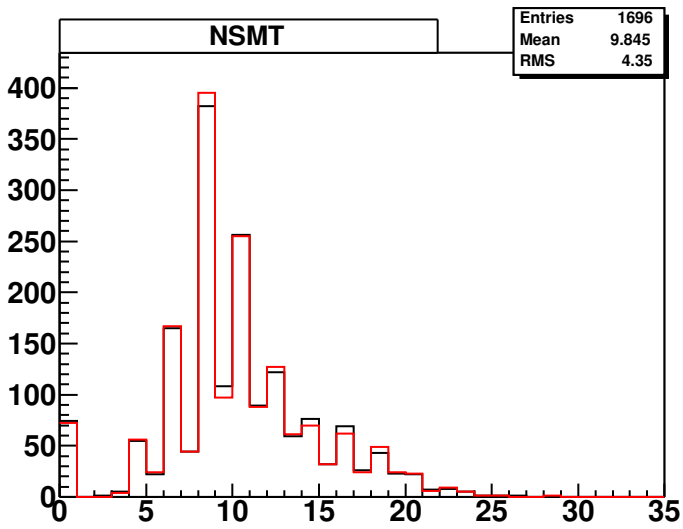

DCA (best vertex)
Entries 1696
Mean -3.216e-10
RMS 3.939e-08

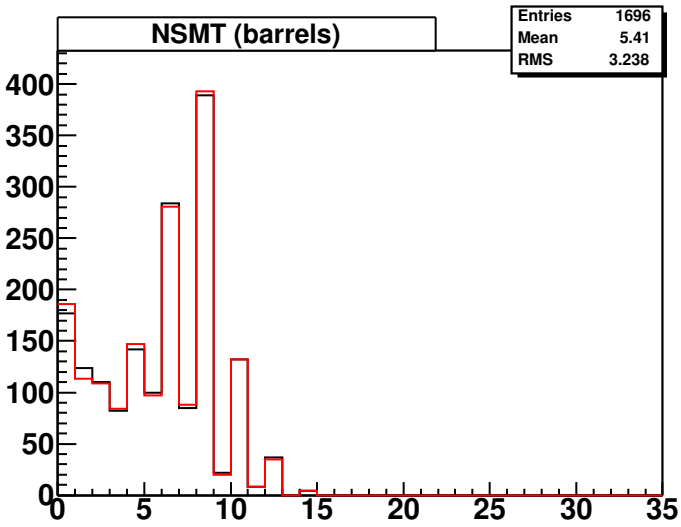

|DCA| (best vertex)
Entries 1696
Mean 5.22e-09
RMS 3.905e-08

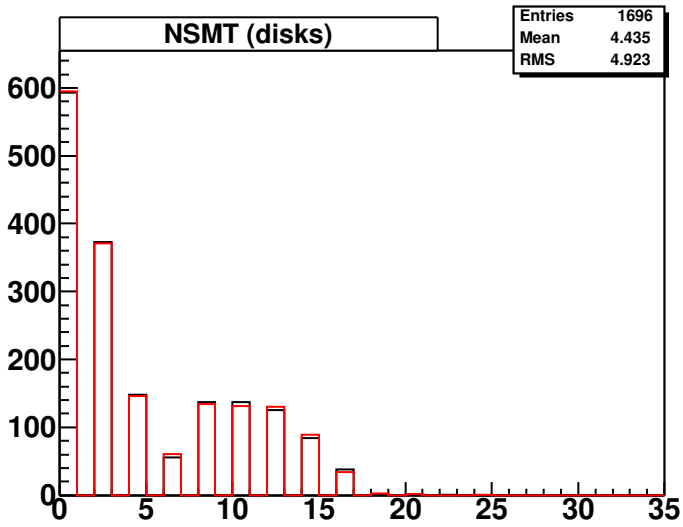

DCA pull (best vertex)
Entries 1696
Mean 3.145e-08
RMS 2.115e-06

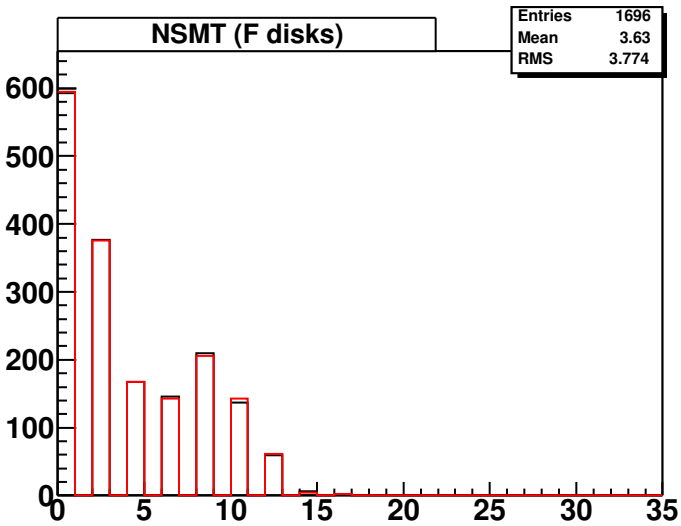
Tracks (All)

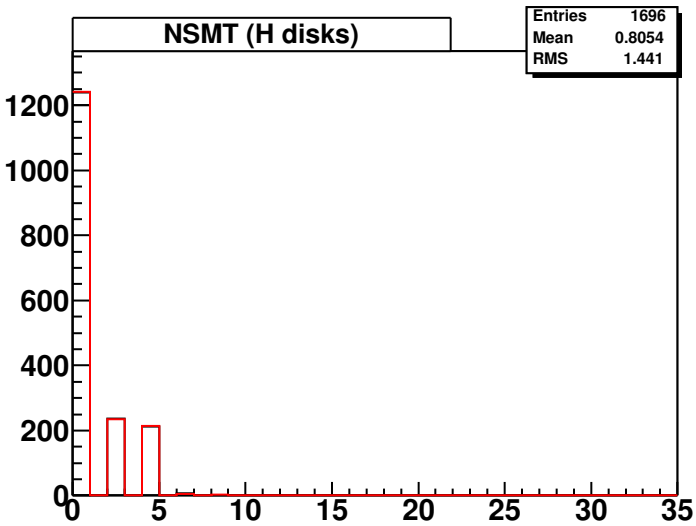




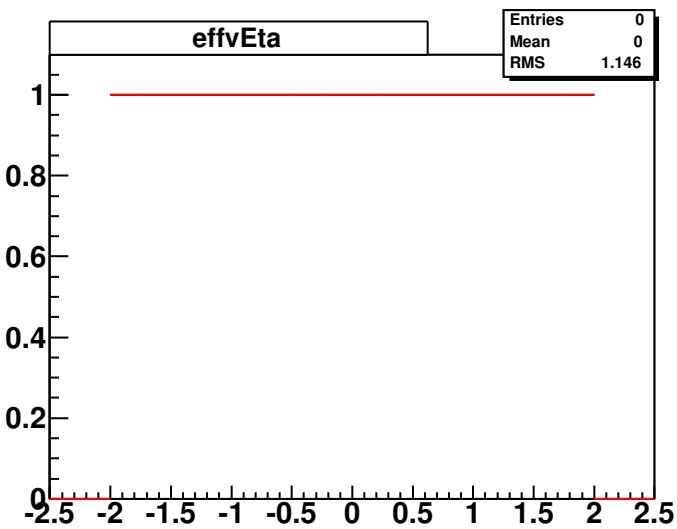


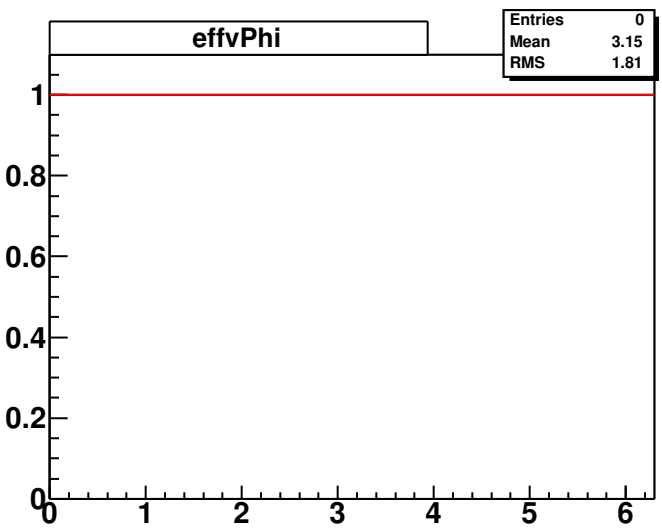


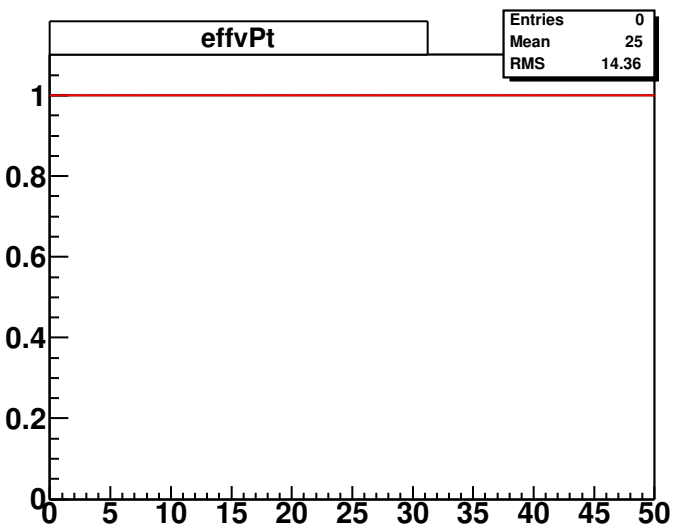


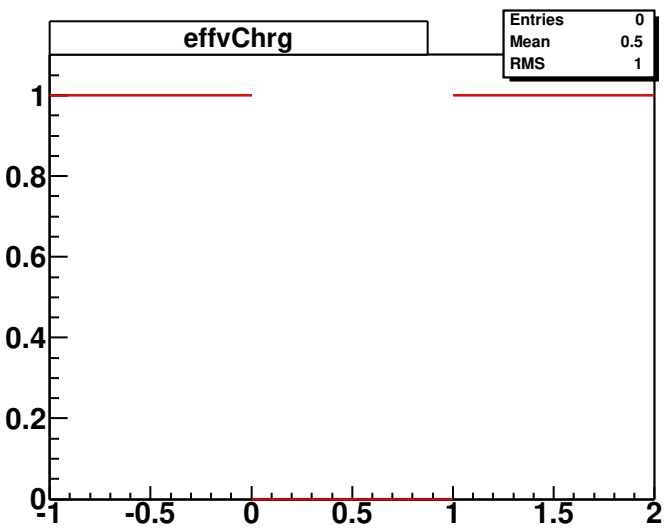


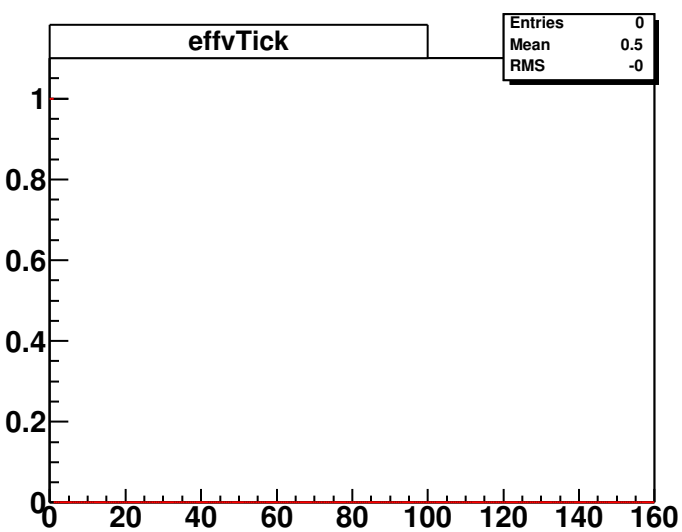
Track Hits (All)

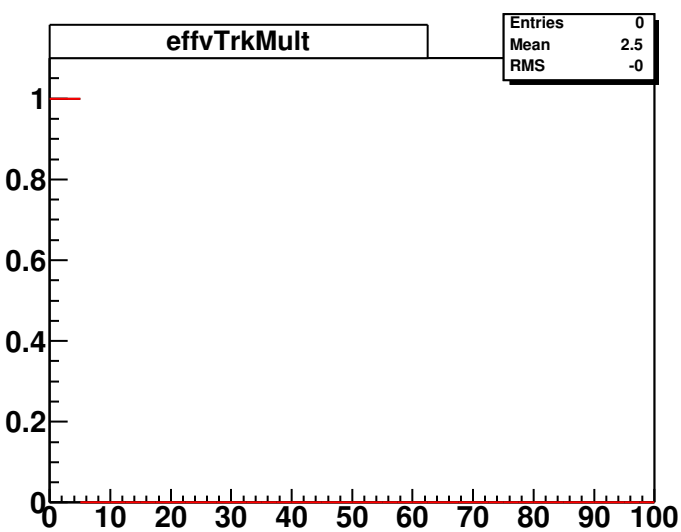




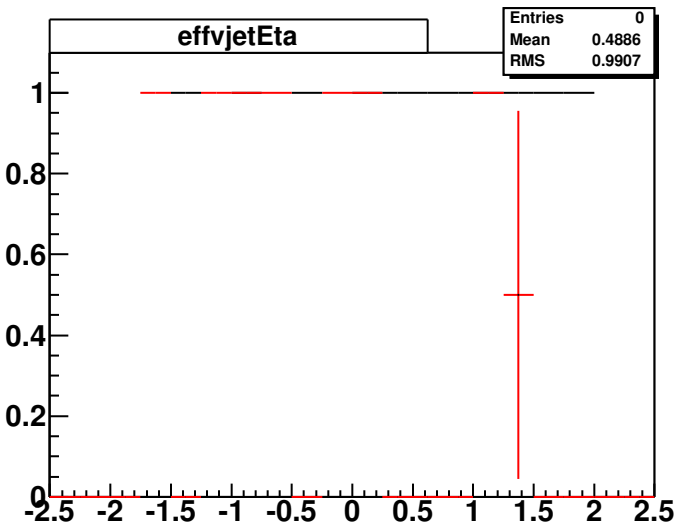


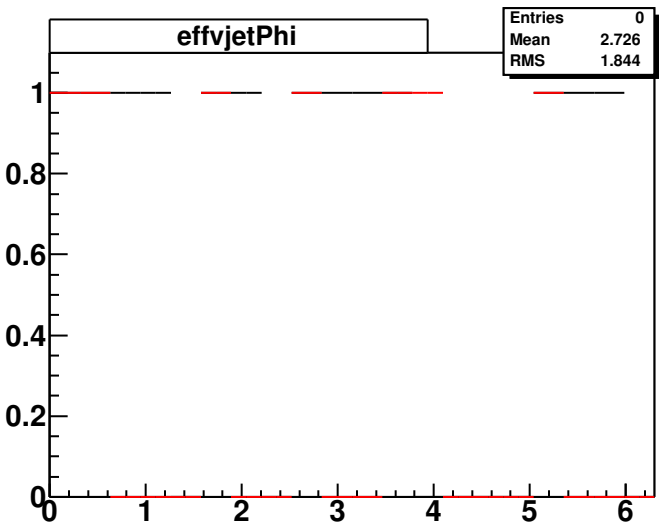


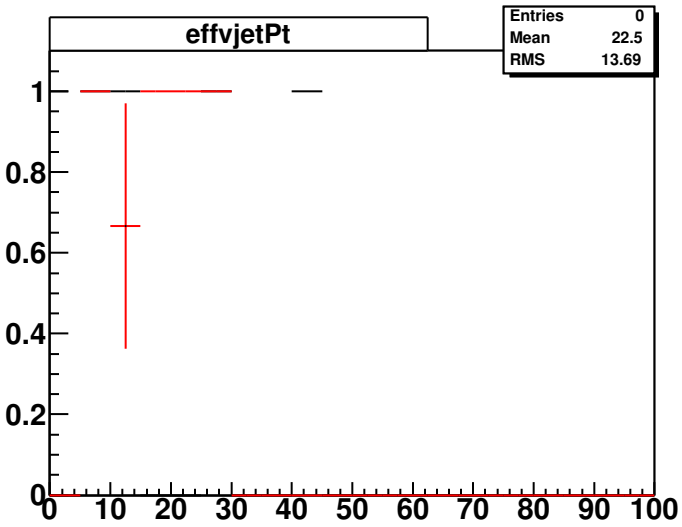




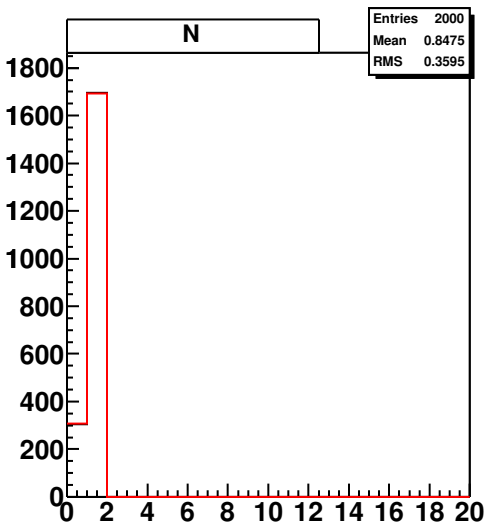
Tracking (Efficiency-Isolated)

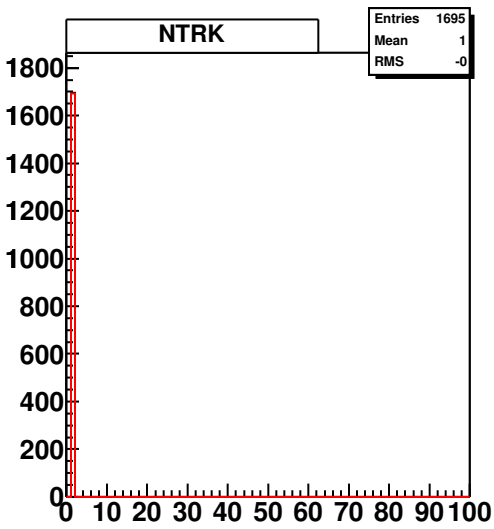


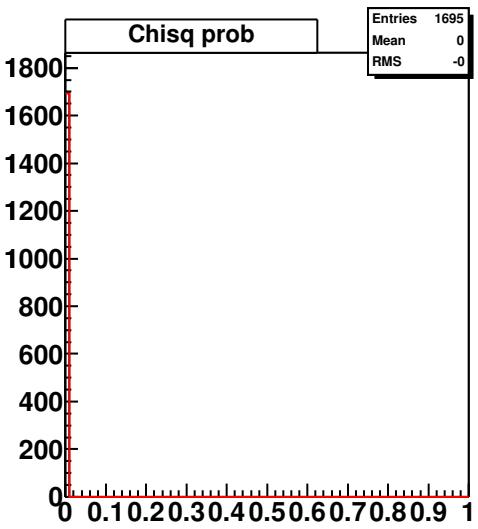


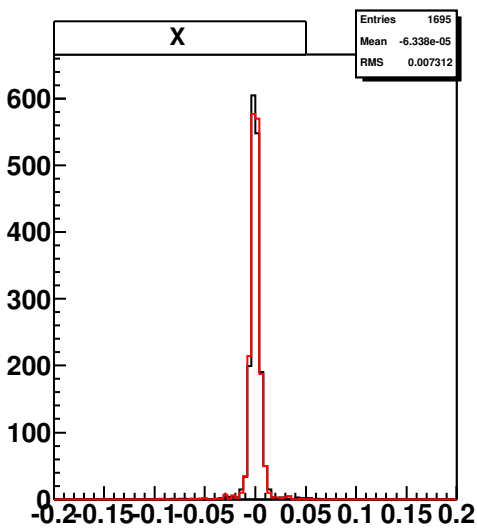


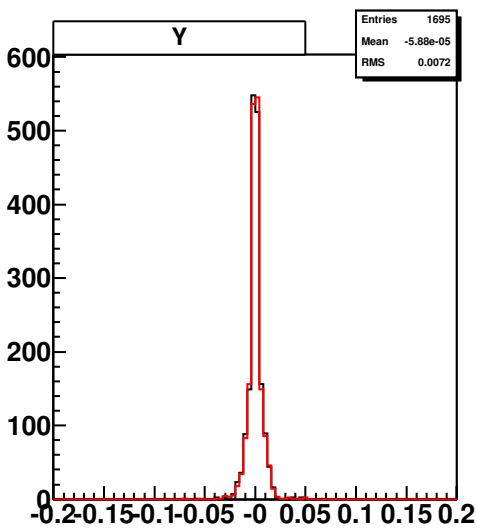
Tracking (Efficiency-InJets)

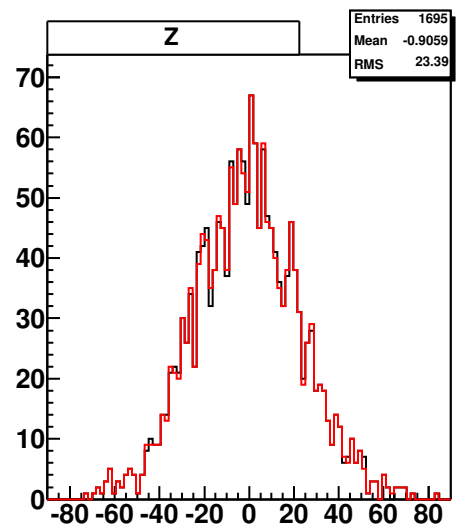


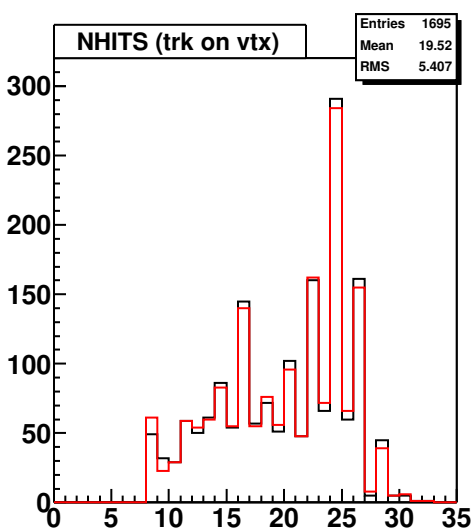


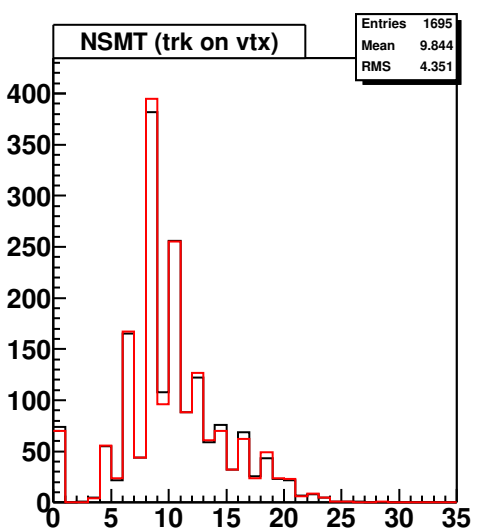


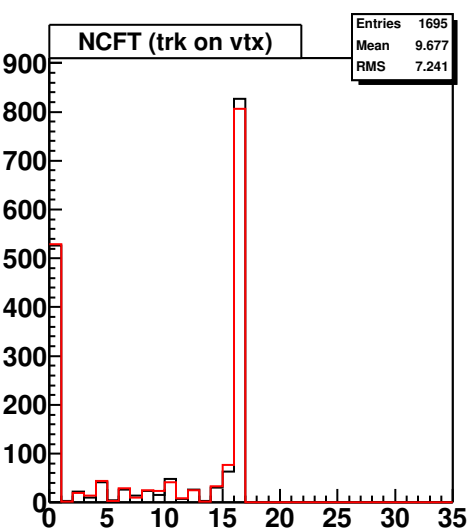




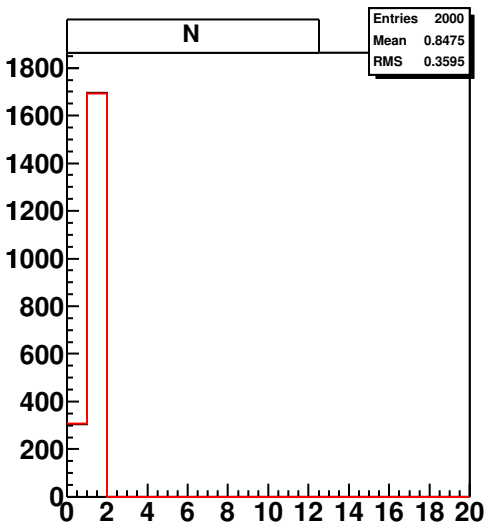


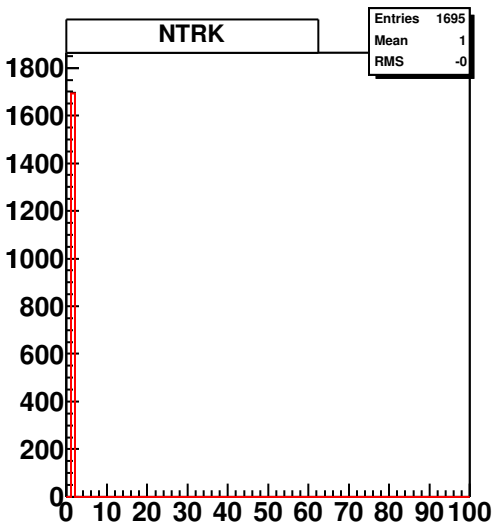


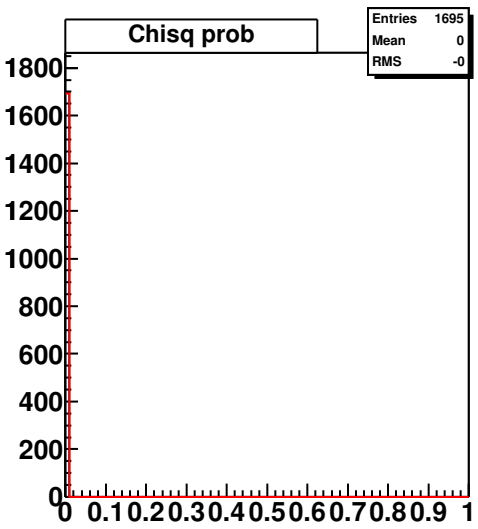


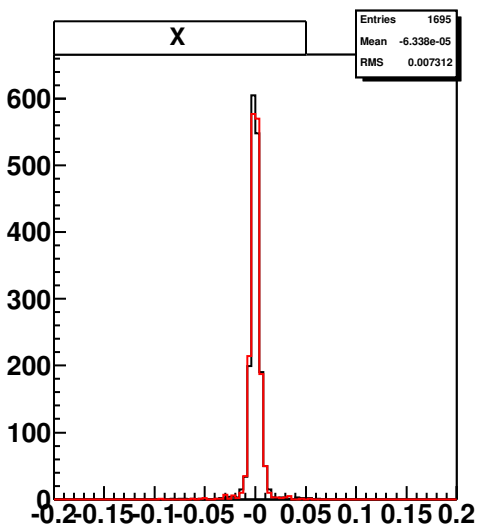


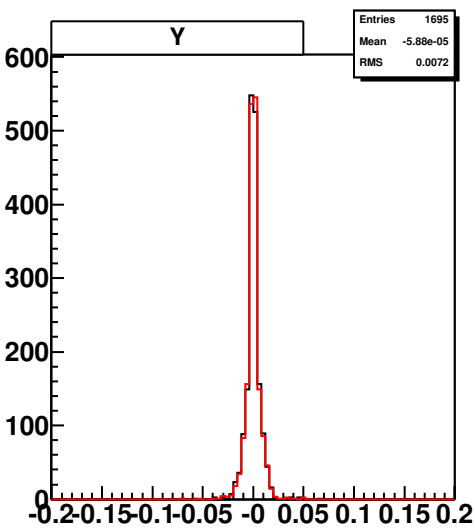
Vertices (Primary - all candidates)

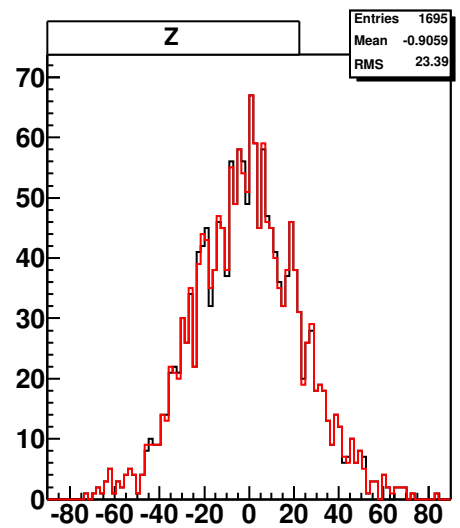


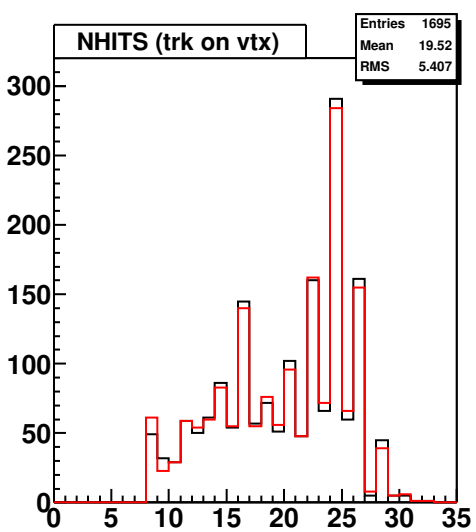


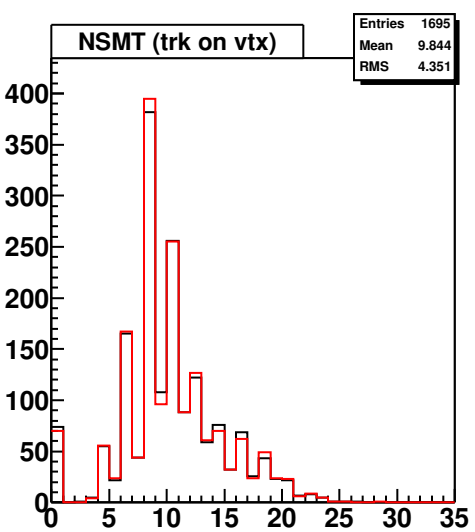


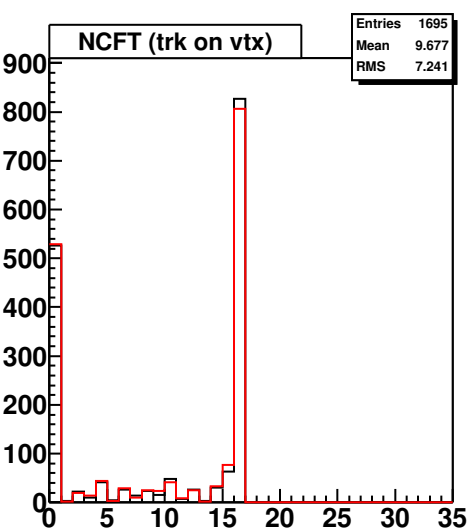




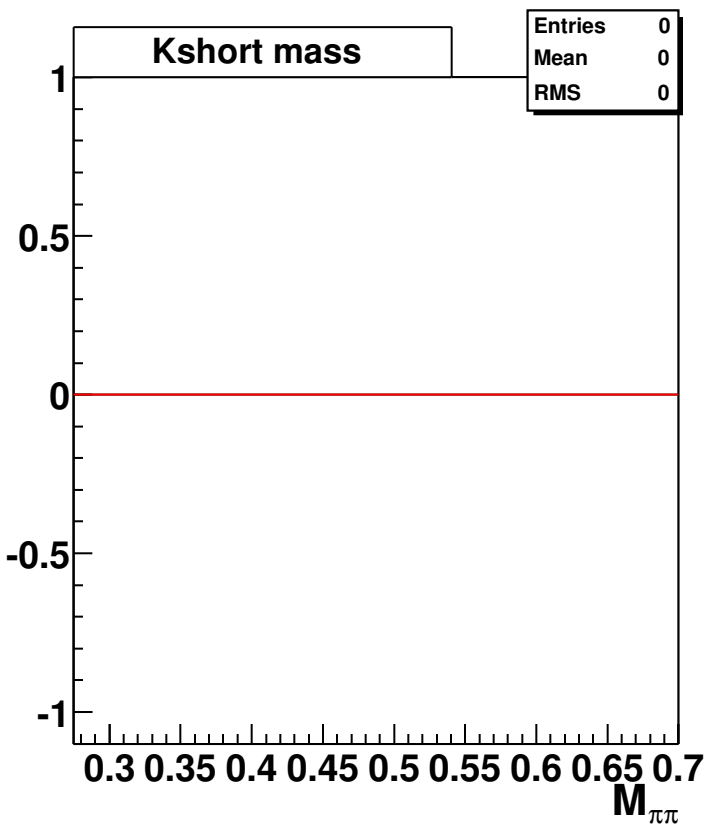


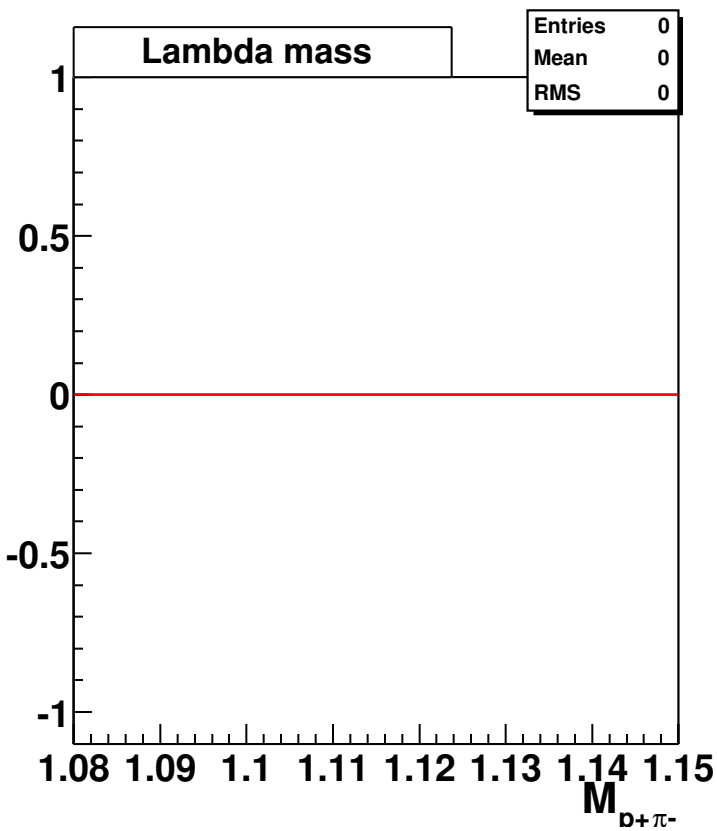


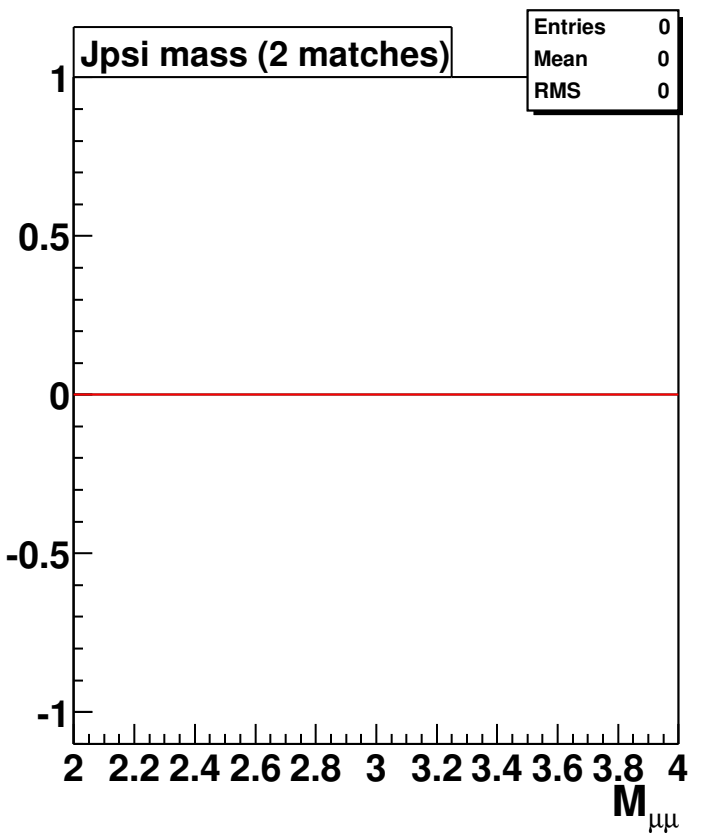


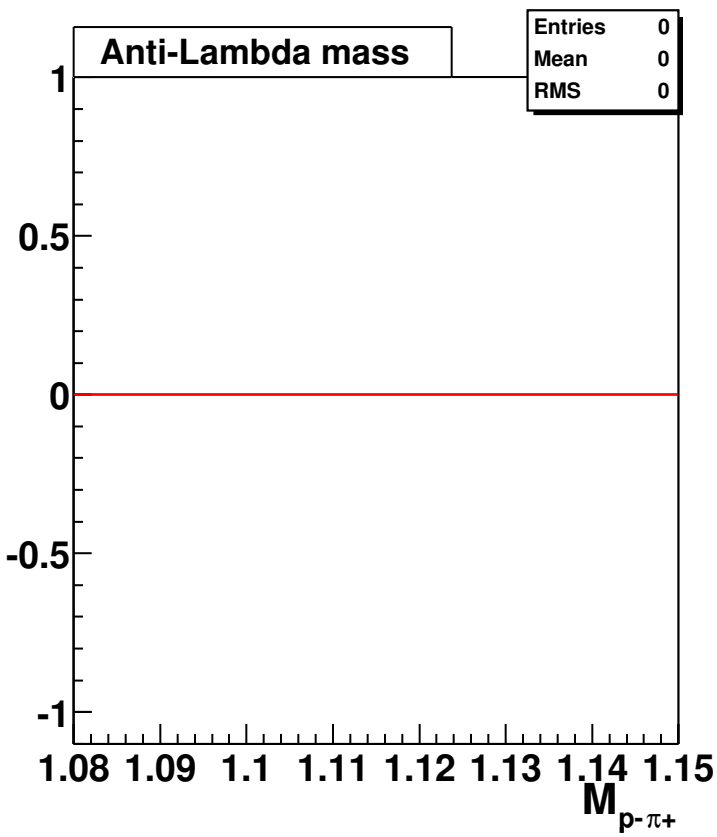


Vertices (Primary - best)

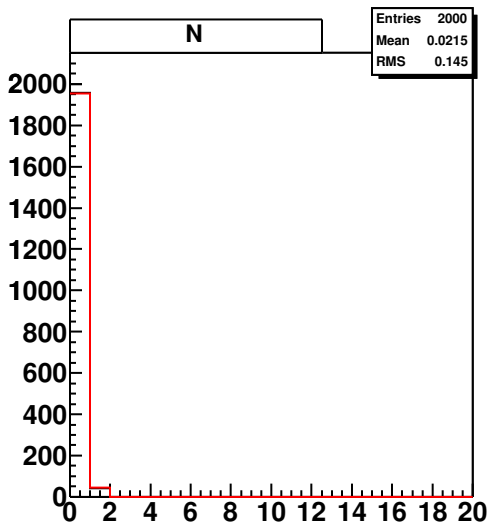

Kshort mass
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
M ππ

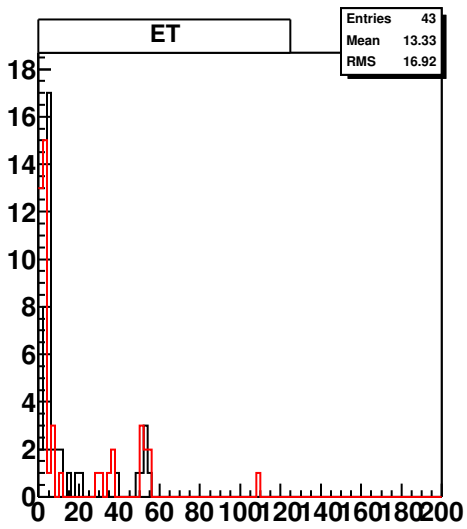

Lambda mass
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
M p+π-

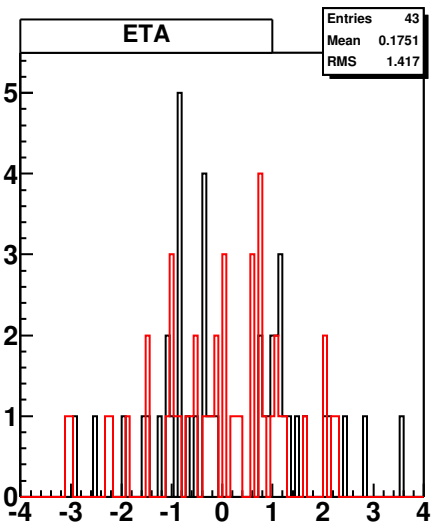

Jpsi mass (2 matches)
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
M μμ

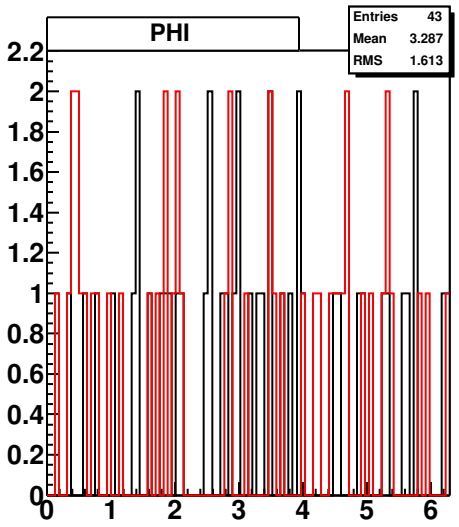

Anti-Lambda mass
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
M p-π+

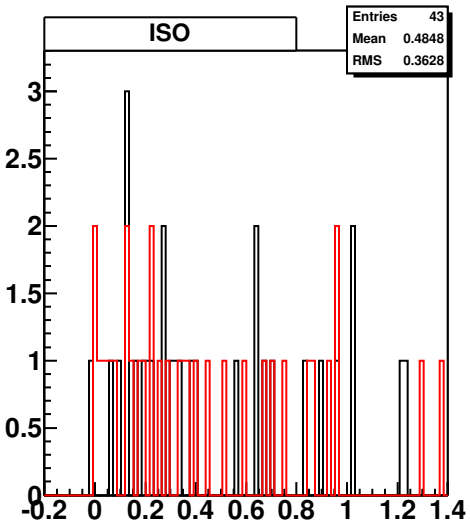
V0 (All)

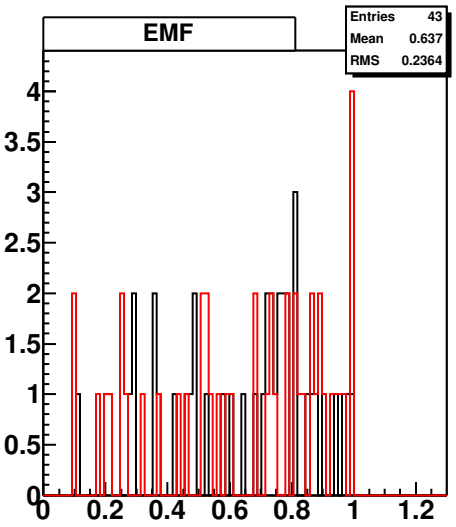


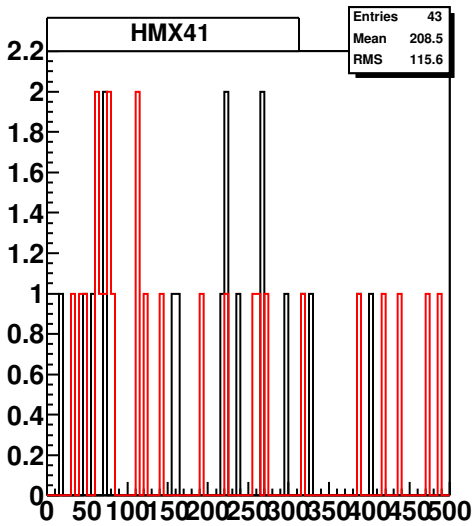


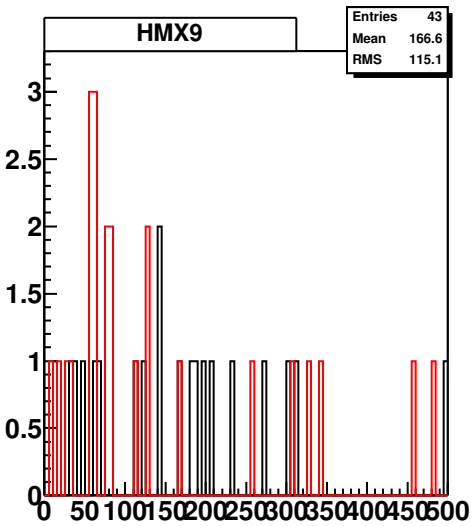


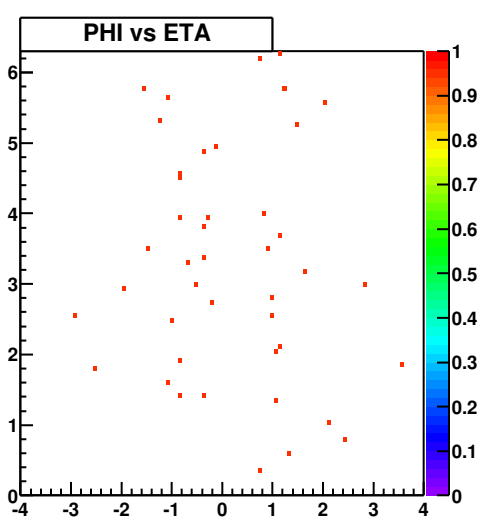




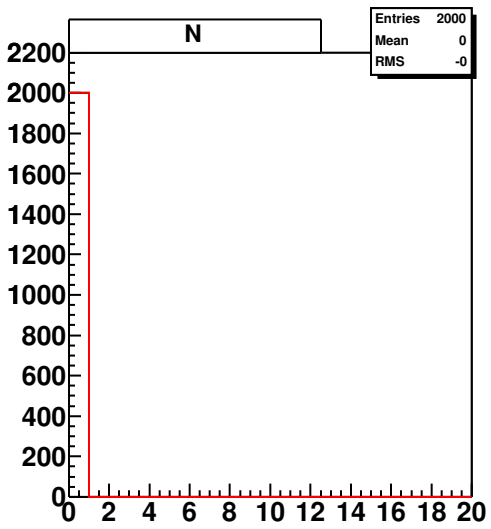


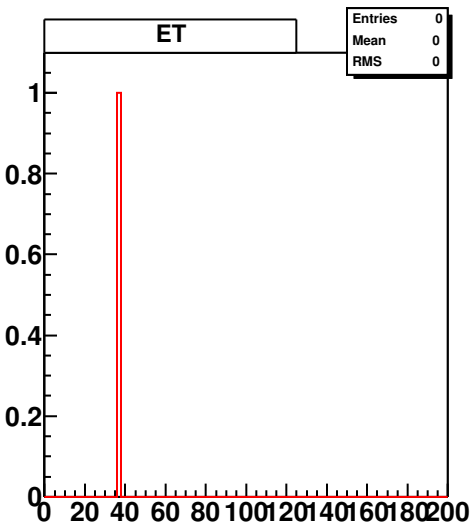


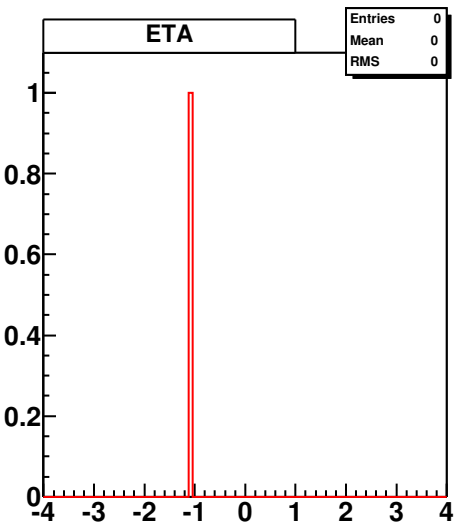


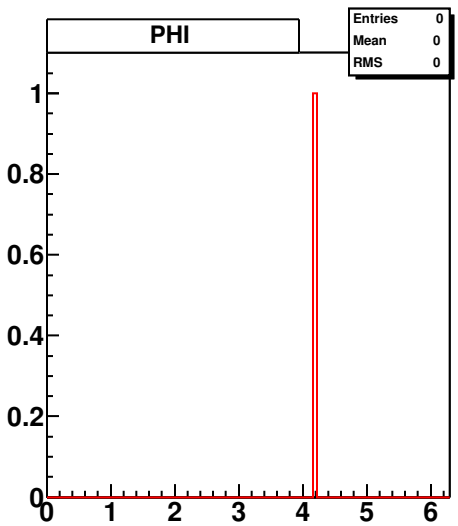


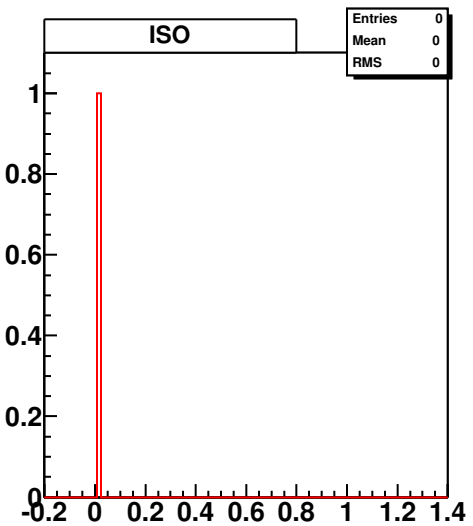
Electrons (SCONE All)

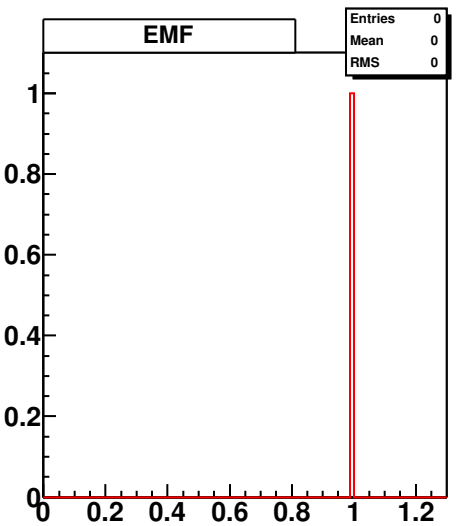


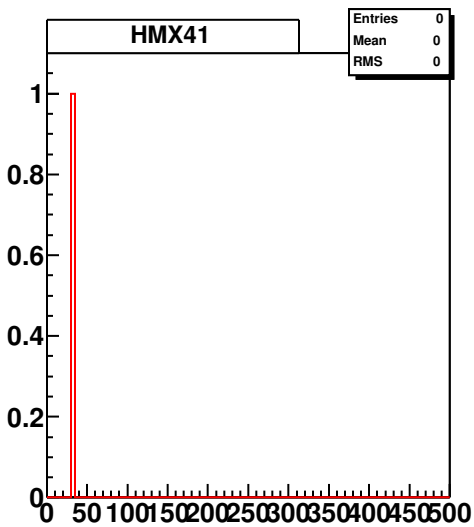


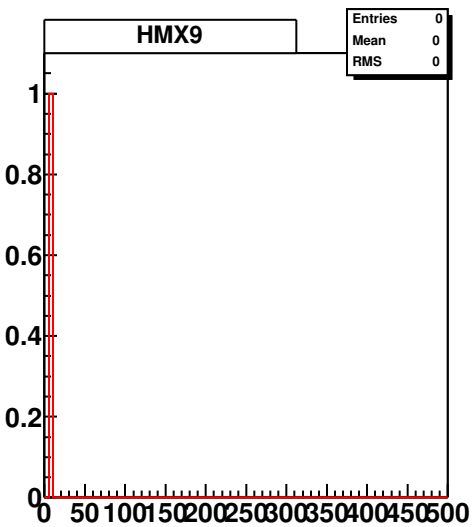


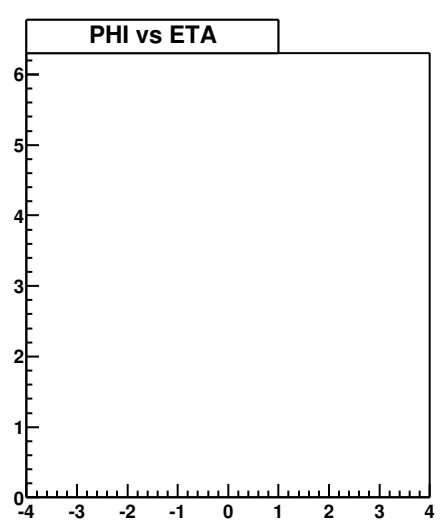




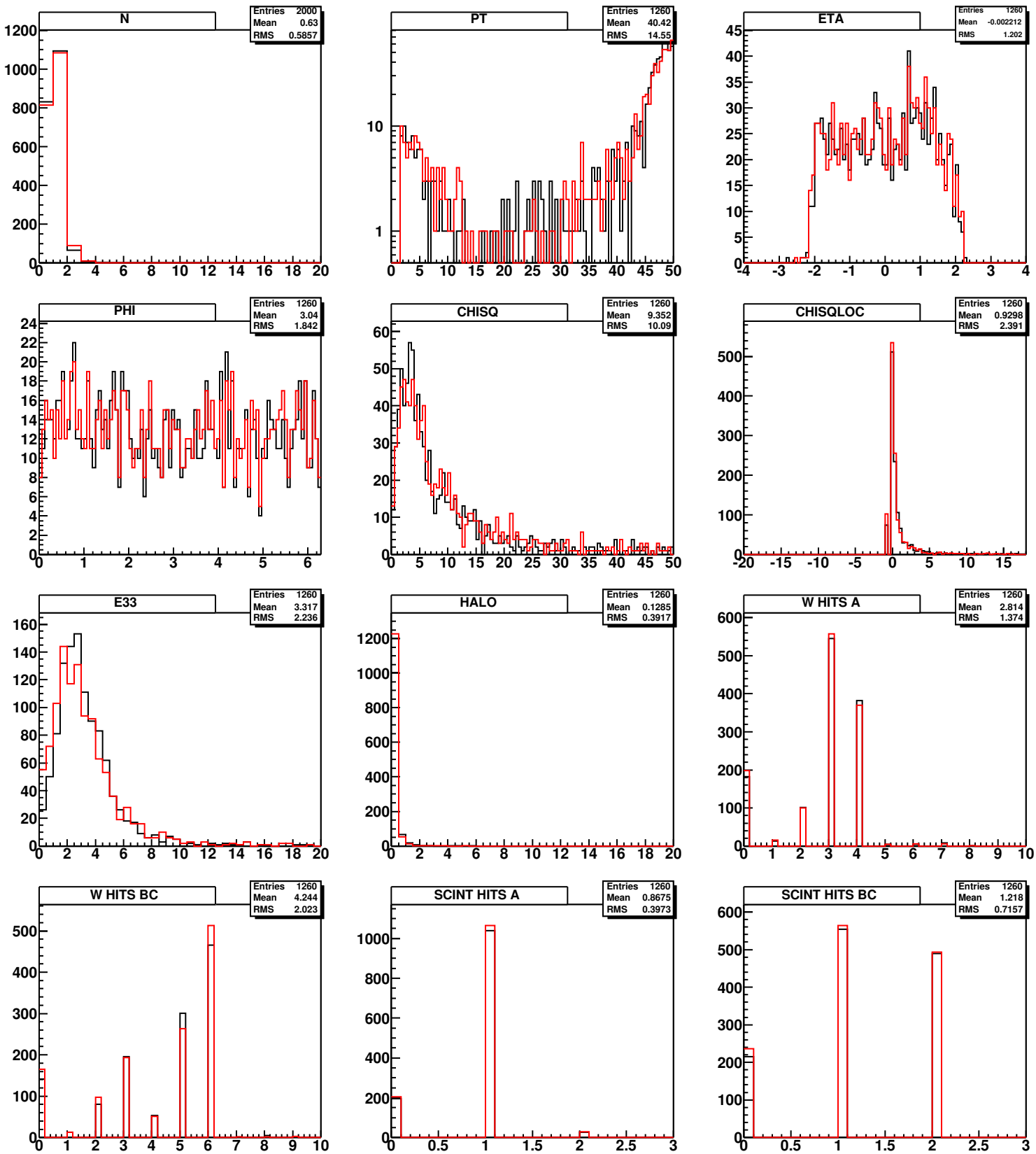




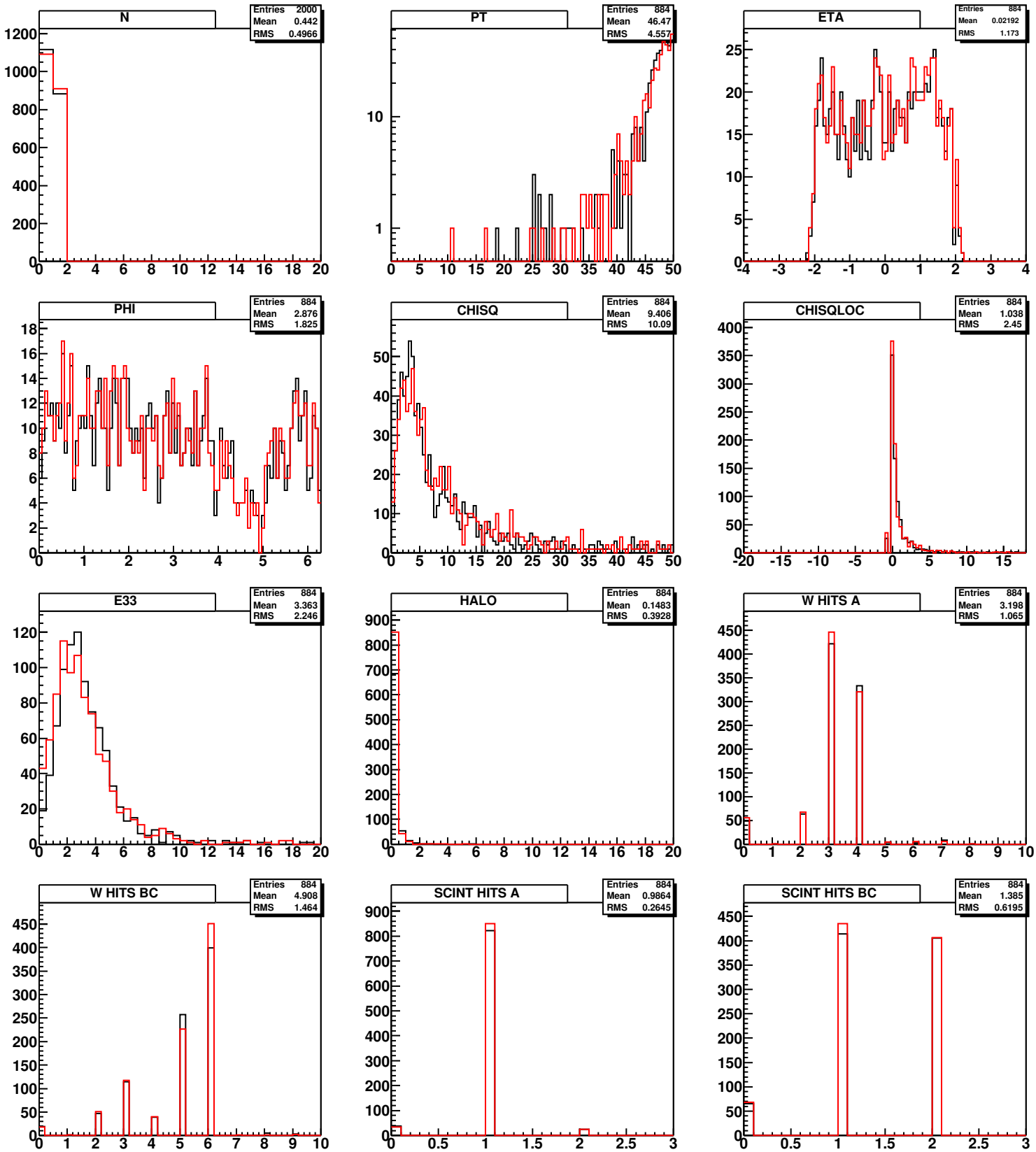




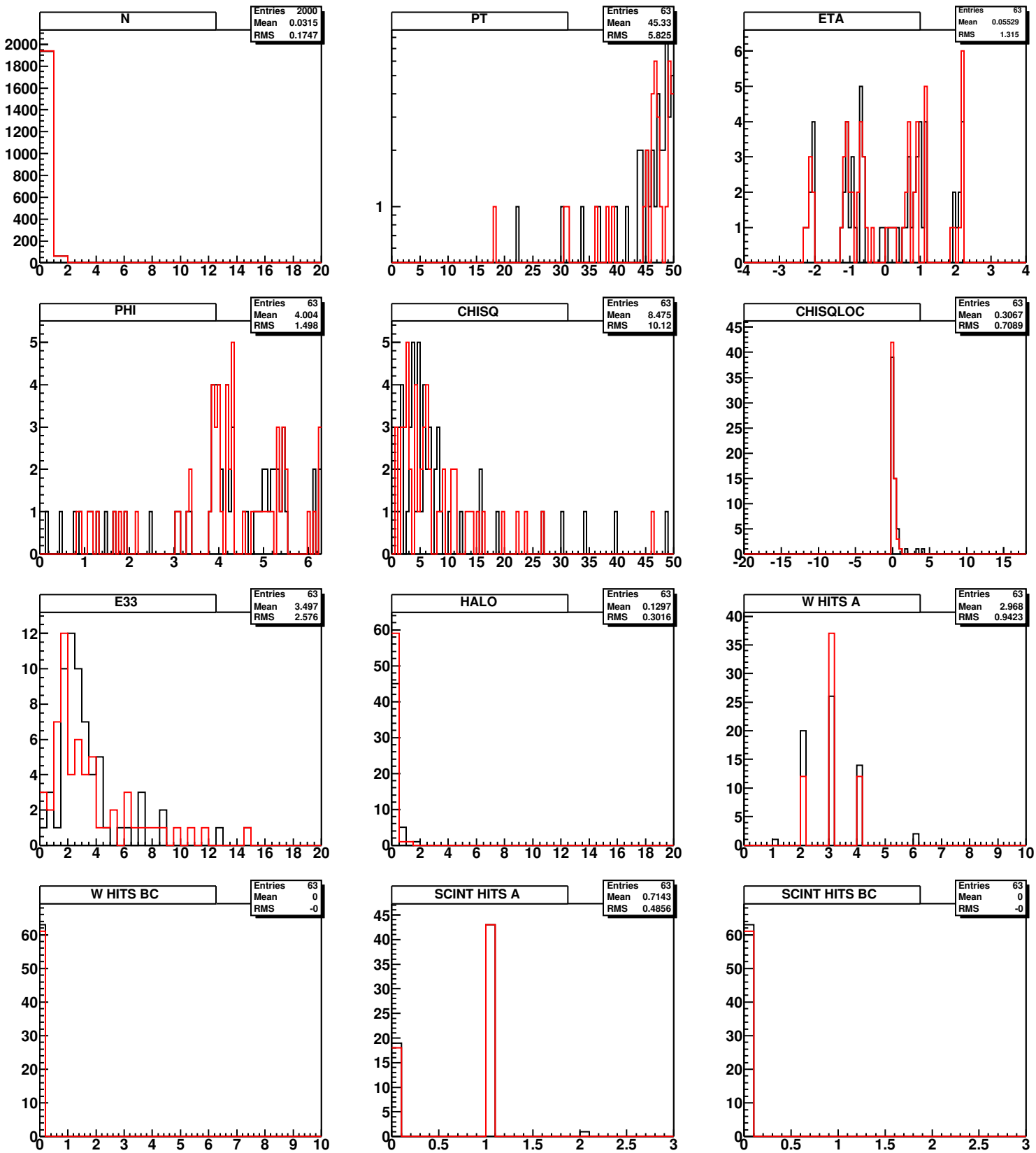
Electrons (SCONE Tight)


N
Entries 2000
Mean 0.63
RMS 0.5857
PT
Entries 1260
Mean 40.42
RMS 14.55
ETA
Entries 1260
Mean -0.002212
RMS 1.202
PHI
Entries 1260
Mean 3.04
RMS 1.842
CHISQ
Entries 1260
Mean 9.352
RMS 10.09
CHISQLOC
Entries 1260
Mean 0.9298
RMS 2.391
E33
Entries 1260
Mean 3.317
RMS 2.236
HALO
Entries 1260
Mean 0.1285
RMS 0.3917
W HITS A
Entries 1260
Mean 2.814
RMS 1.374
W HITS BC
Entries 1260
Mean 4.244
RMS 2.023
SCINT HITS A
Entries 1260
Mean 0.8675
RMS 0.3973
SCINT HITS BC
Entries 1260
Mean 1.218
RMS 0.7157

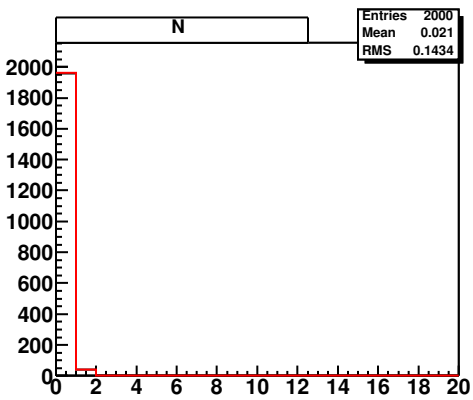
Muons (All)

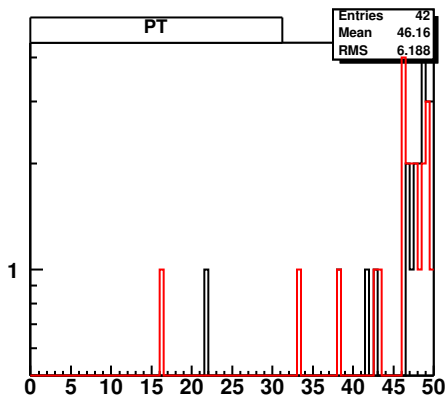


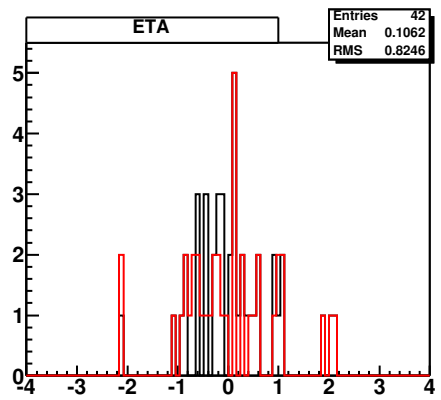
Muons (Matched)

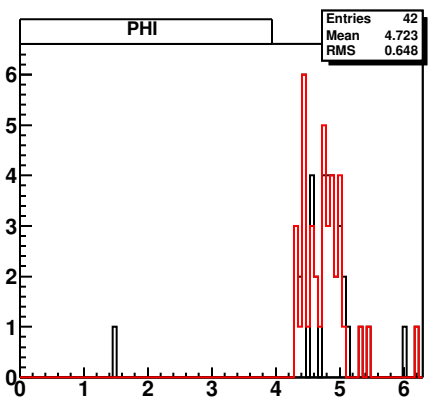

N
Entries 2000
Mean 0.0315
RMS 0.1747
PT
Entries 63
Mean 45.33
RMS 5.825
ETA
Entries 63
Mean 0.05529
RMS 1.315
PHI
Entries 63
Mean 4.004
RMS 1.498
CHISQ
Entries 63
Mean 8.475
RMS 10.12
CHISQLOC
Entries 63
Mean 0.3067
RMS 0.7089
E33
Entries 63
Mean 3.497
RMS 2.576
HALO
Entries 63
Mean 0.1297
RMS 0.3016
W HITS A
Entries 63
Mean 2.968
RMS 0.9423
W HITS BC
Entries 63
Mean 0
RMS -0
SCINT HITS A
Entries 63
Mean 0.7143
RMS 0.4856
SCINT HITS BC
Entries 63
Mean 0
RMS -0

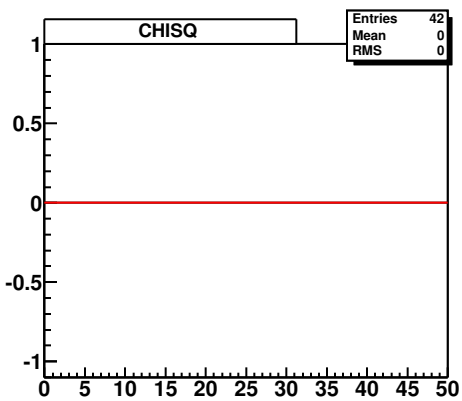
Muons (Astub)

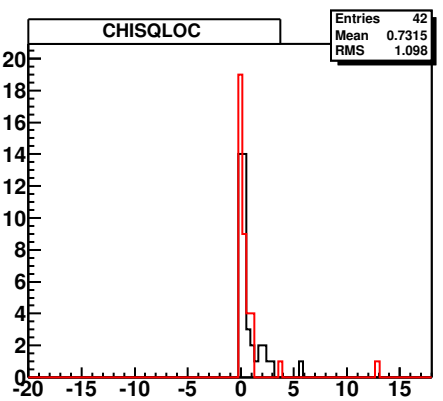


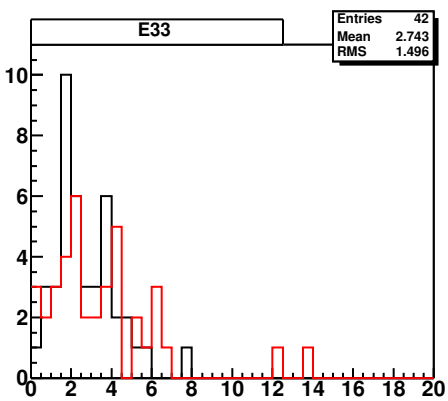


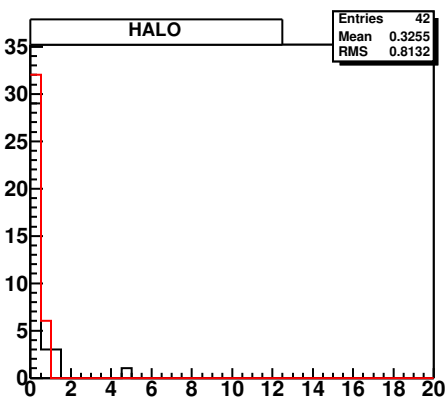


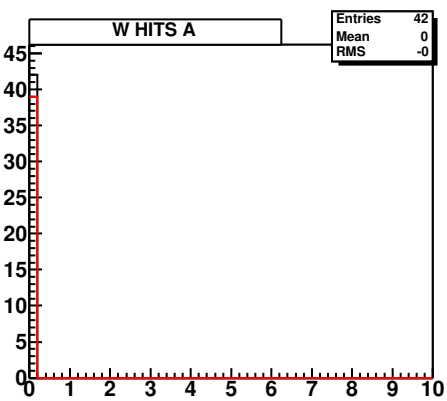


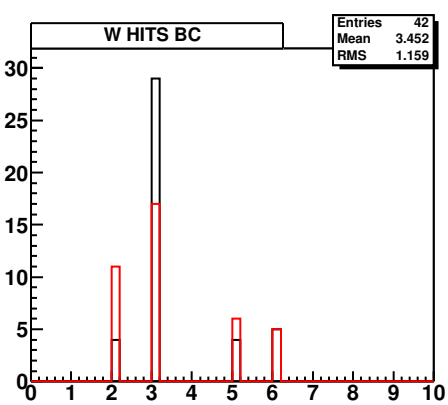


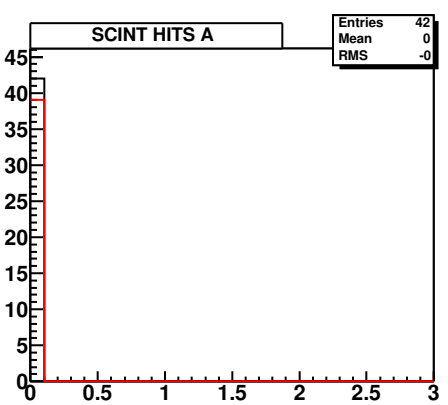


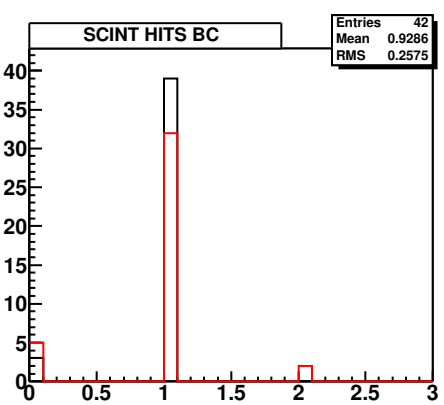




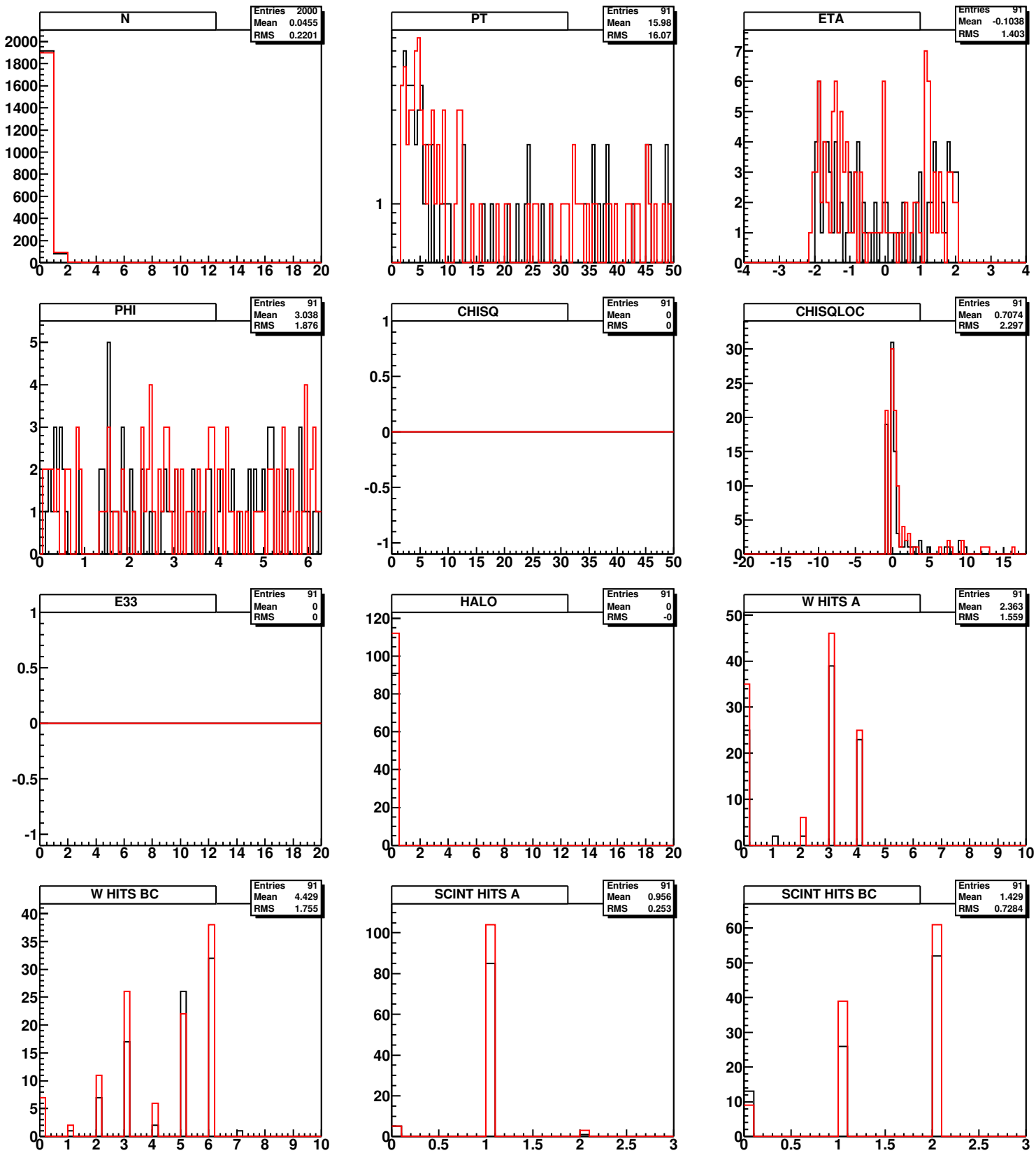




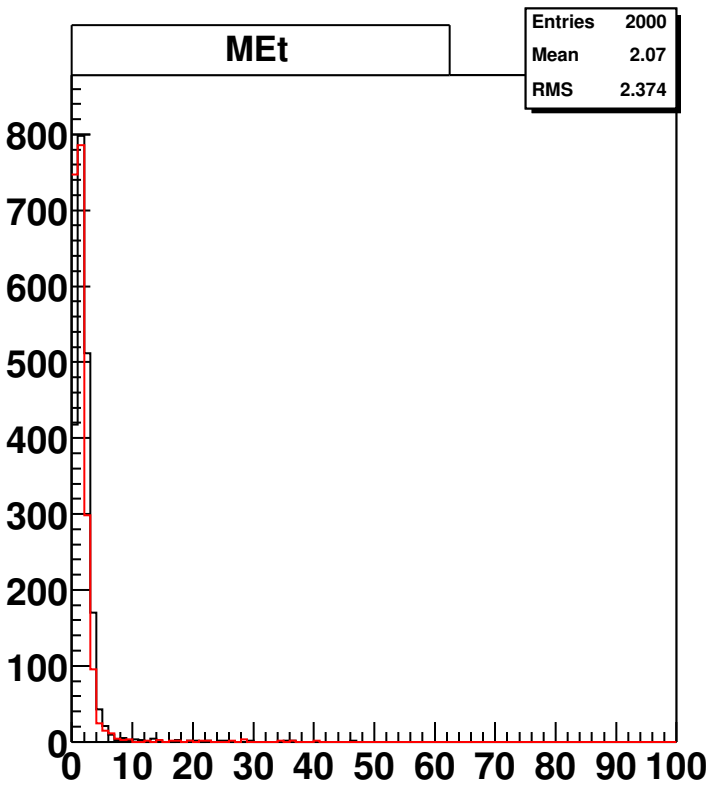


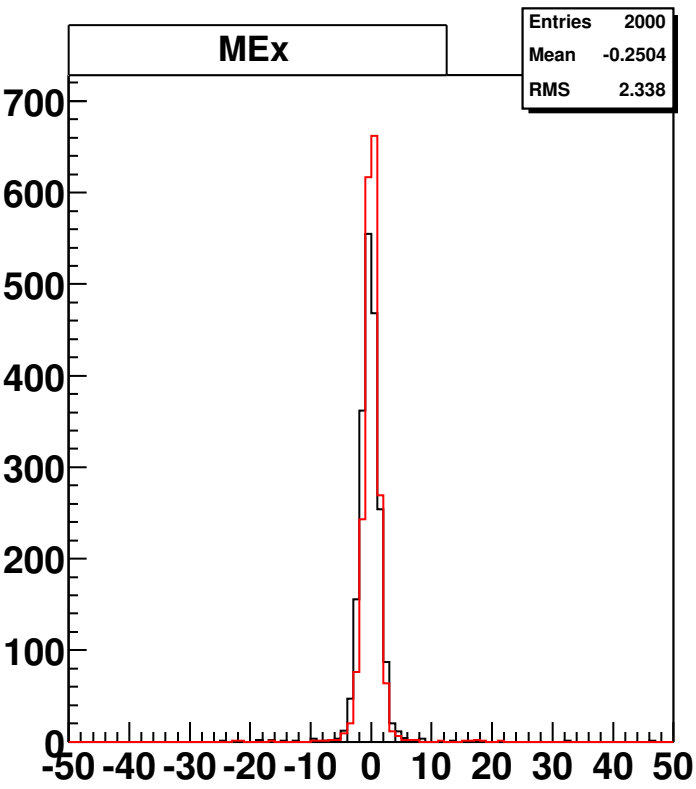


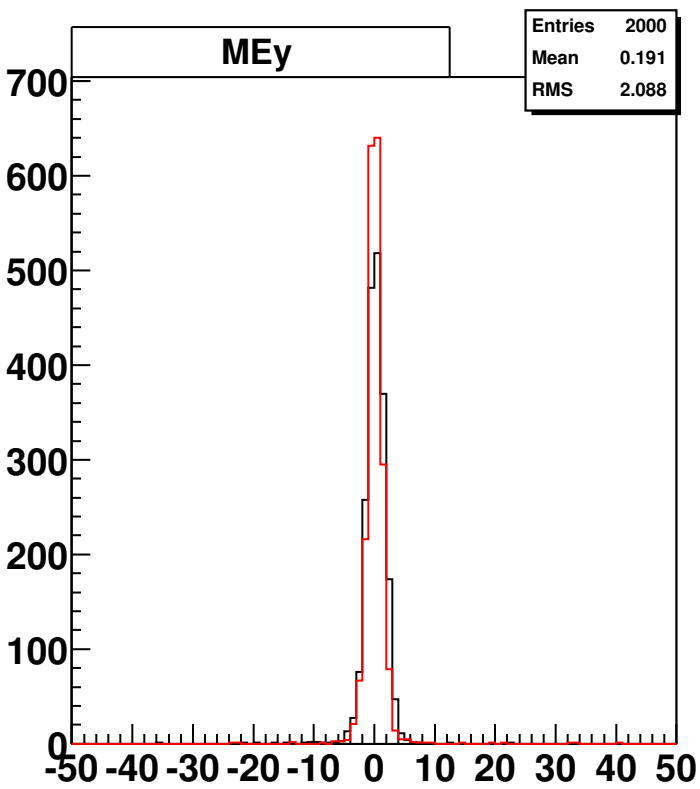
Muons (BCstub)



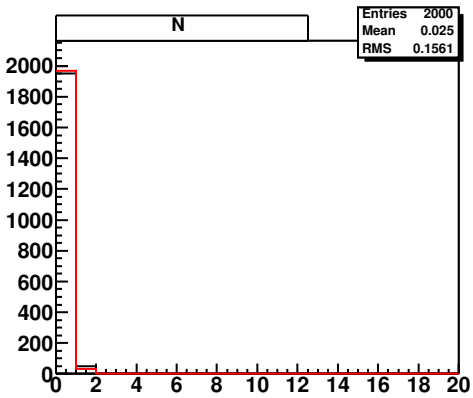
Muons (Unmatched)

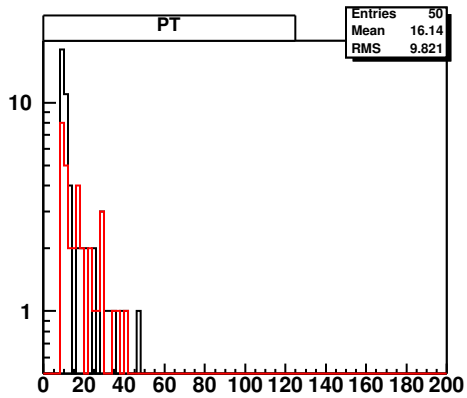

MEt
Entries 2000
Mean 2.07
RMS 2.374
800
700
600
500
400
300
200
100
0
0 10 20 30 40 50 60 70 80 90 100

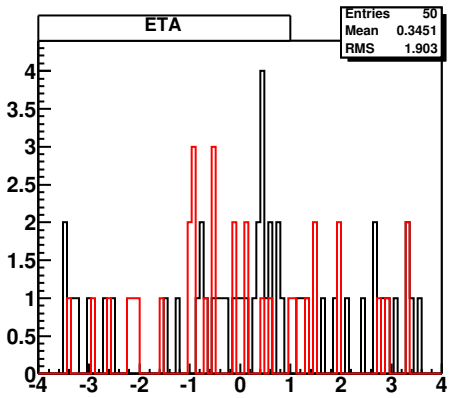

MEx
Entries 2000
Mean -0.2504
RMS 2.338
700
600
500
400
300
200
100
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

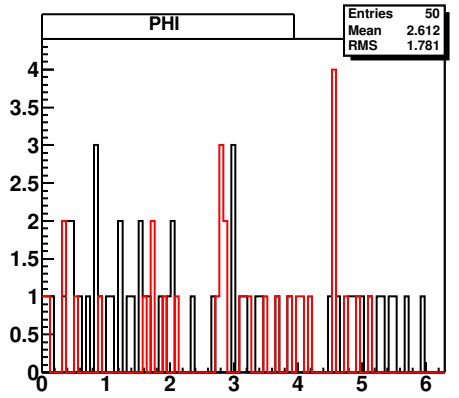

MEy
Entries 2000
Mean 0.191
RMS 2.088
700
600
500
400
300
200
100
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

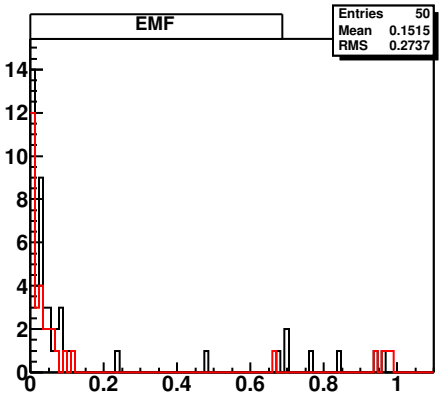
Met (No cuts)

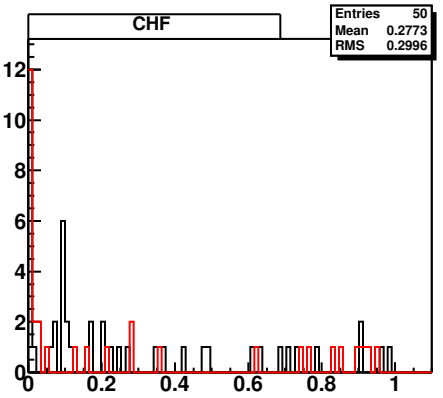


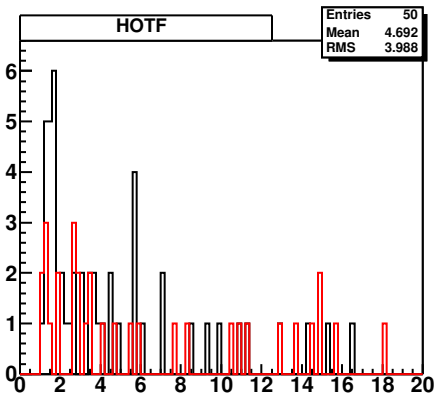


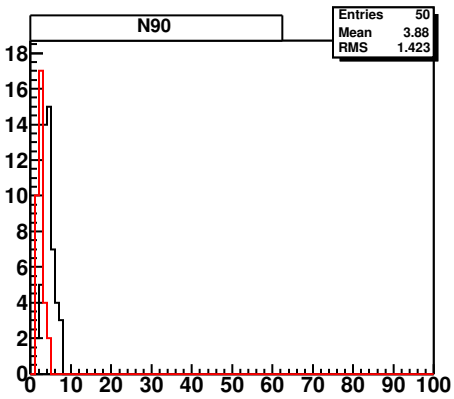


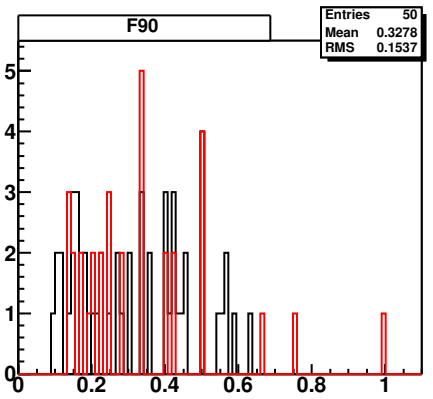


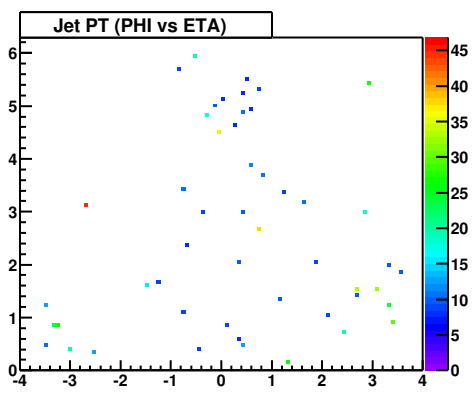




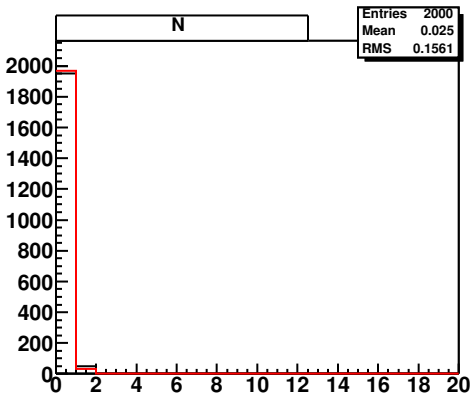


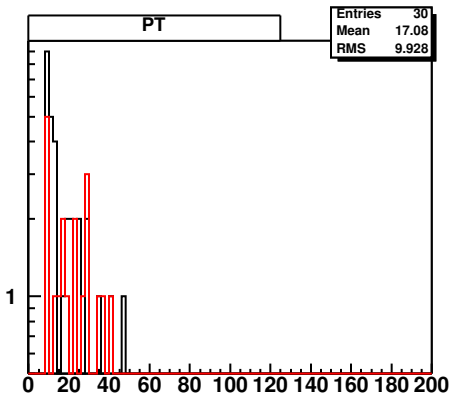


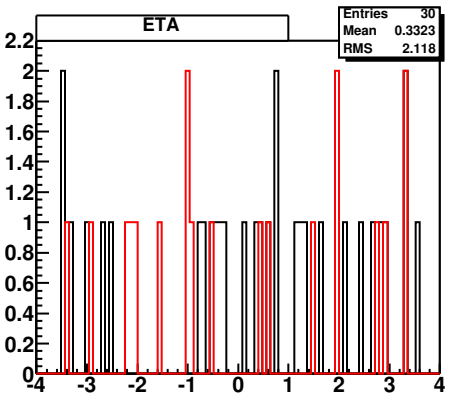


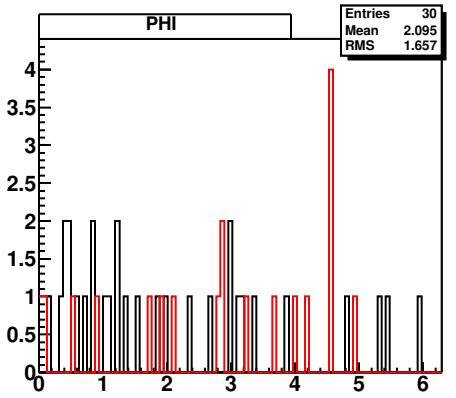


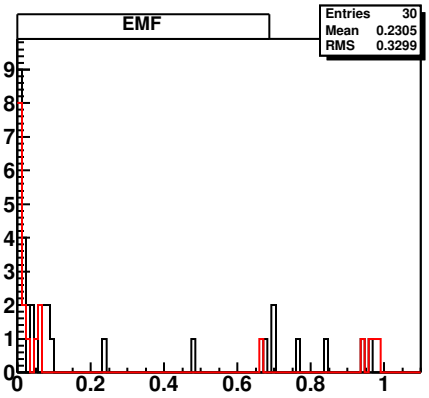
Jets (Cone R 0.7 (no cuts))

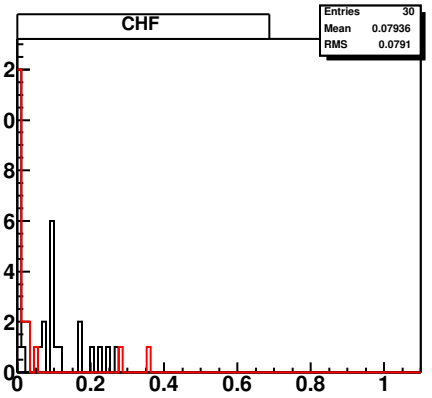


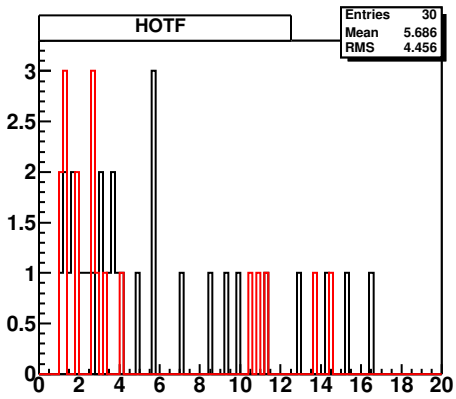


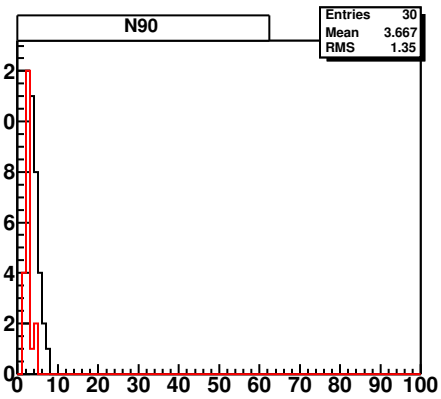


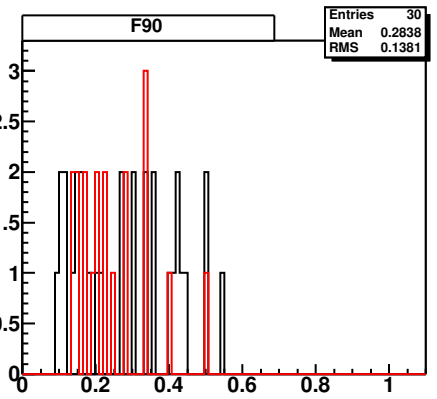


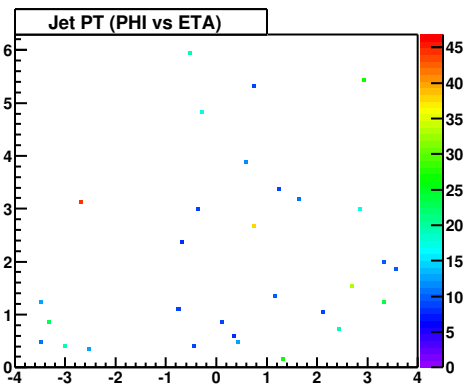




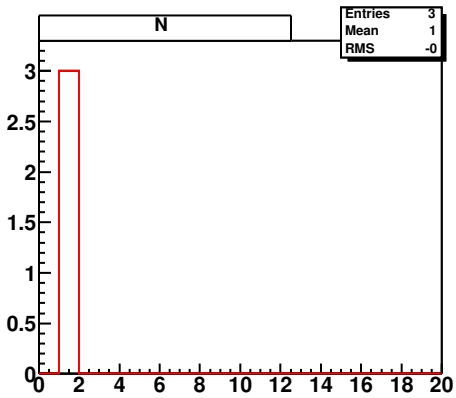


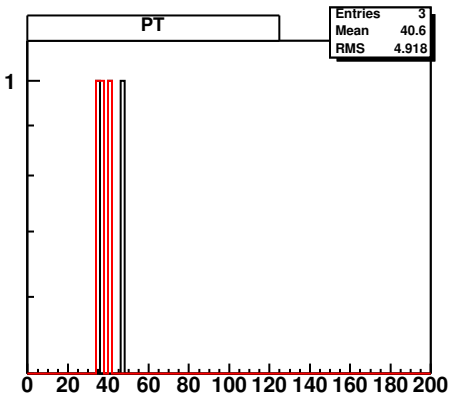


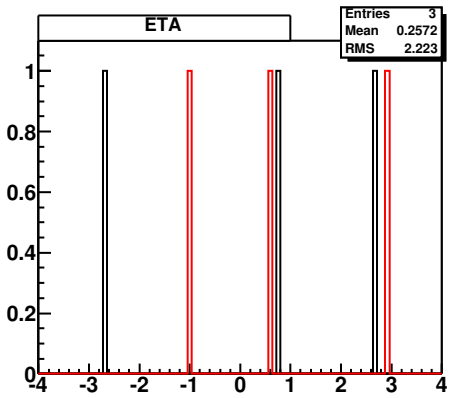


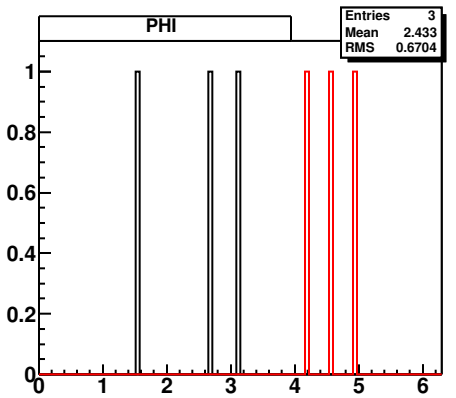


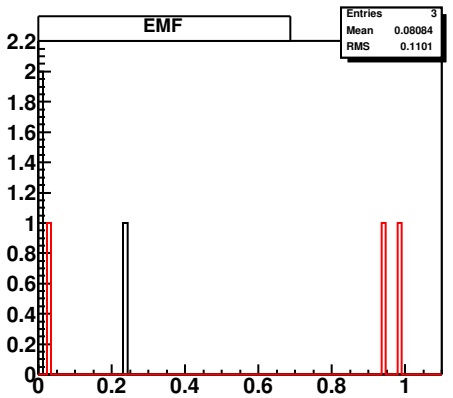
Jets (Cone R 0.7 (standard cuts))

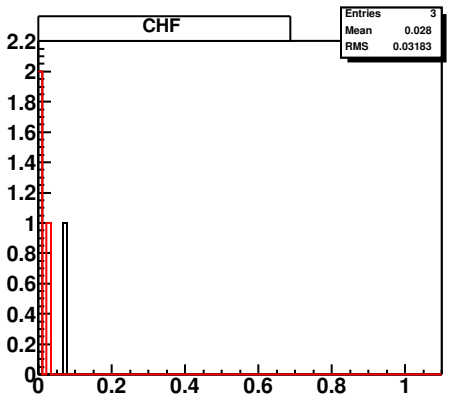


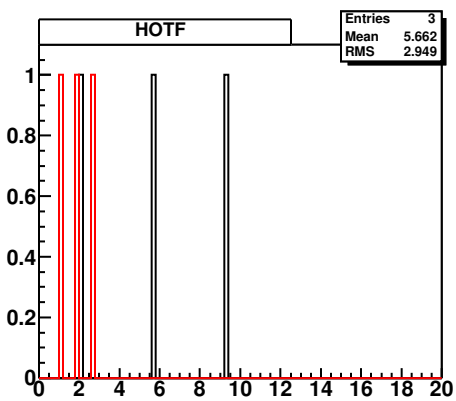


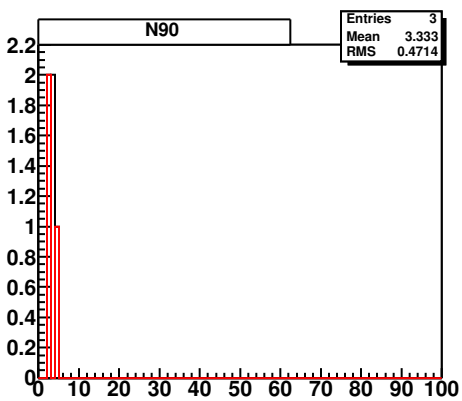


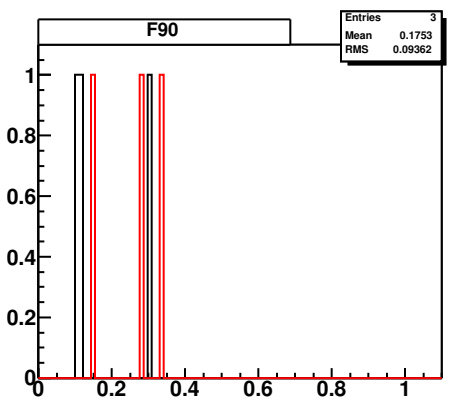


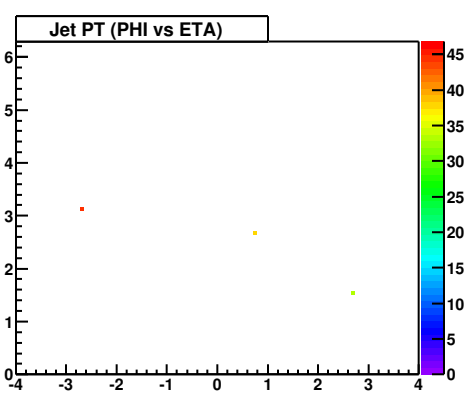




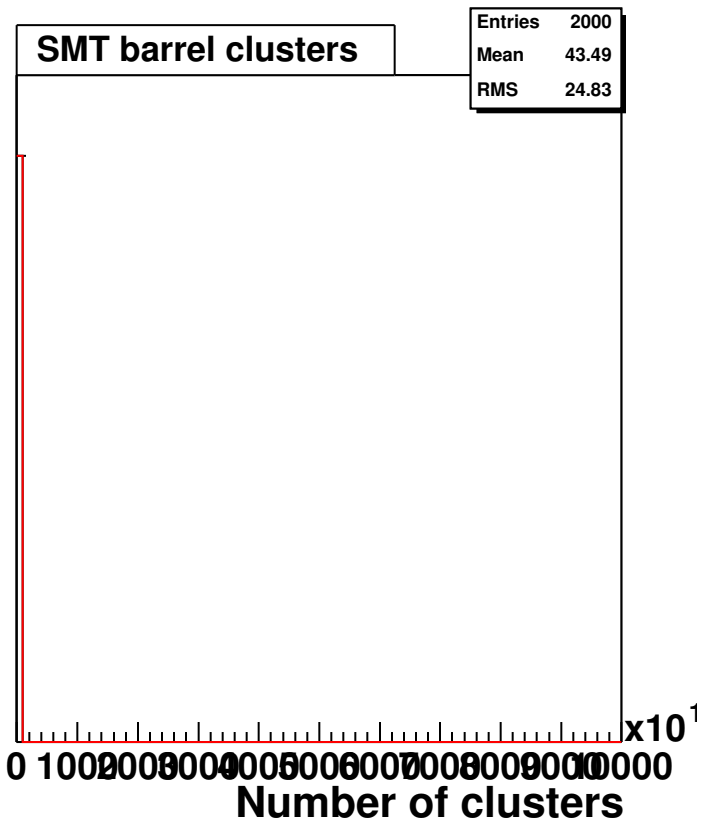


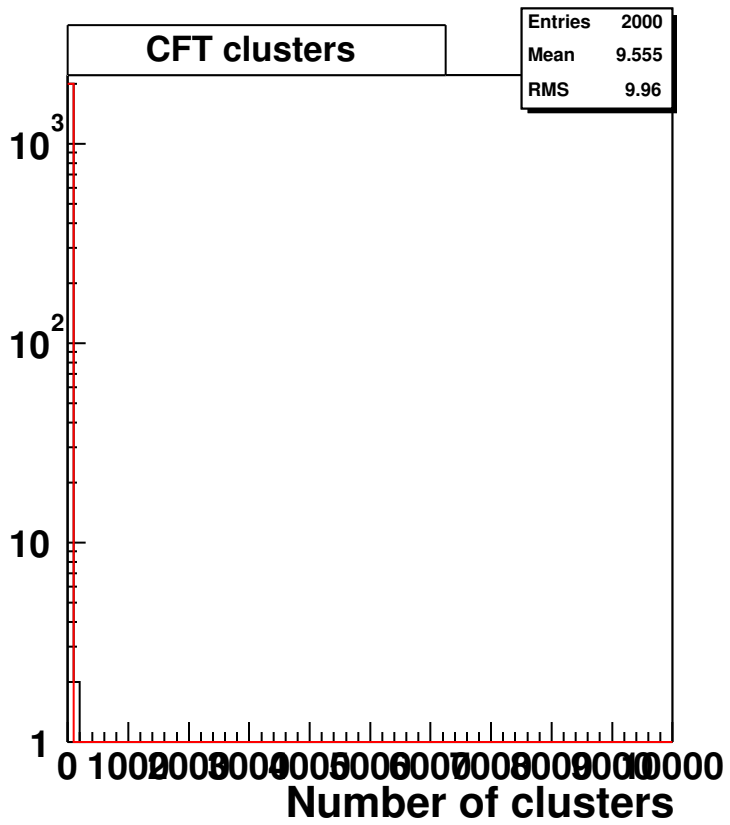


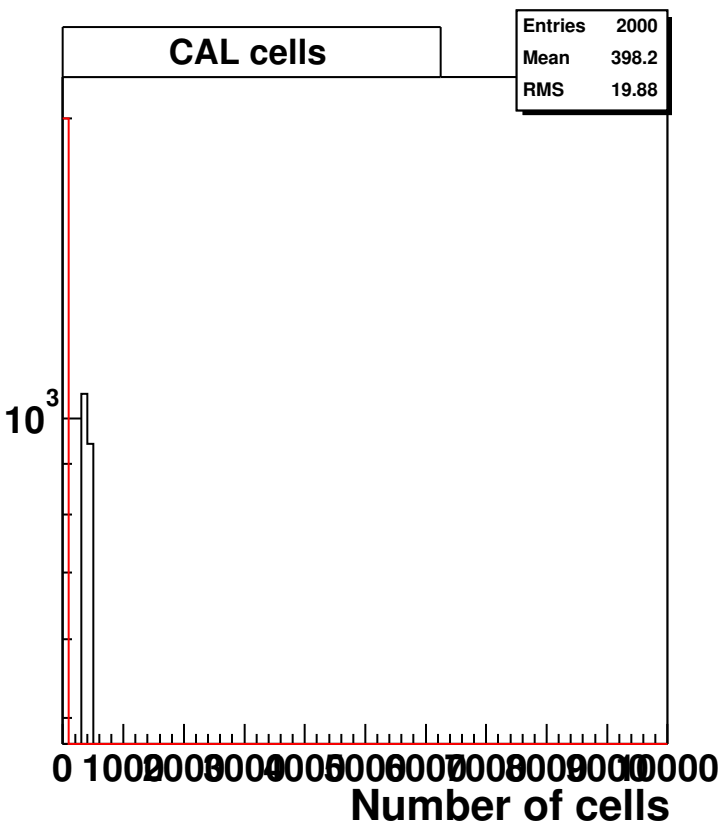


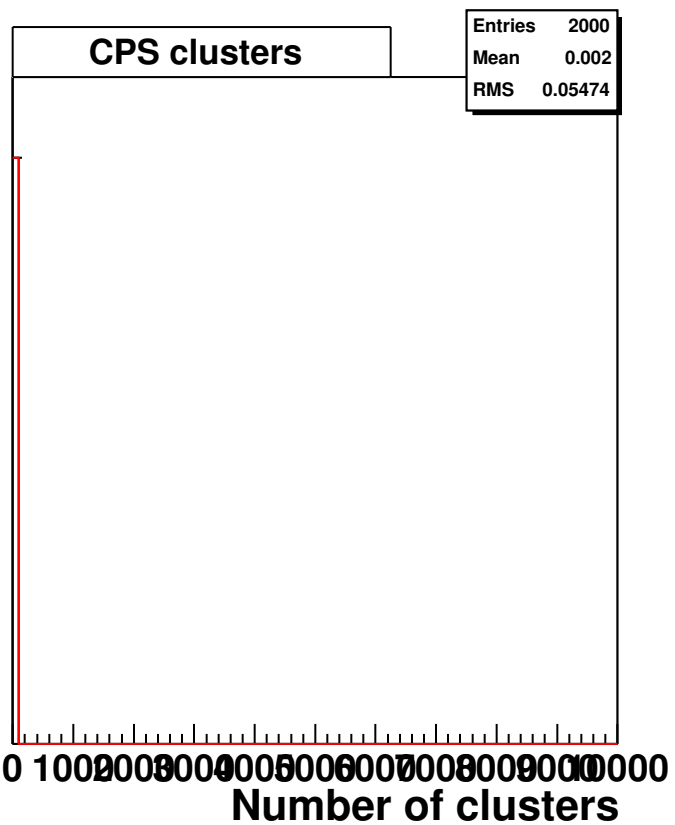


Jets (Cone R 0.7 (standard cuts, MET>30))

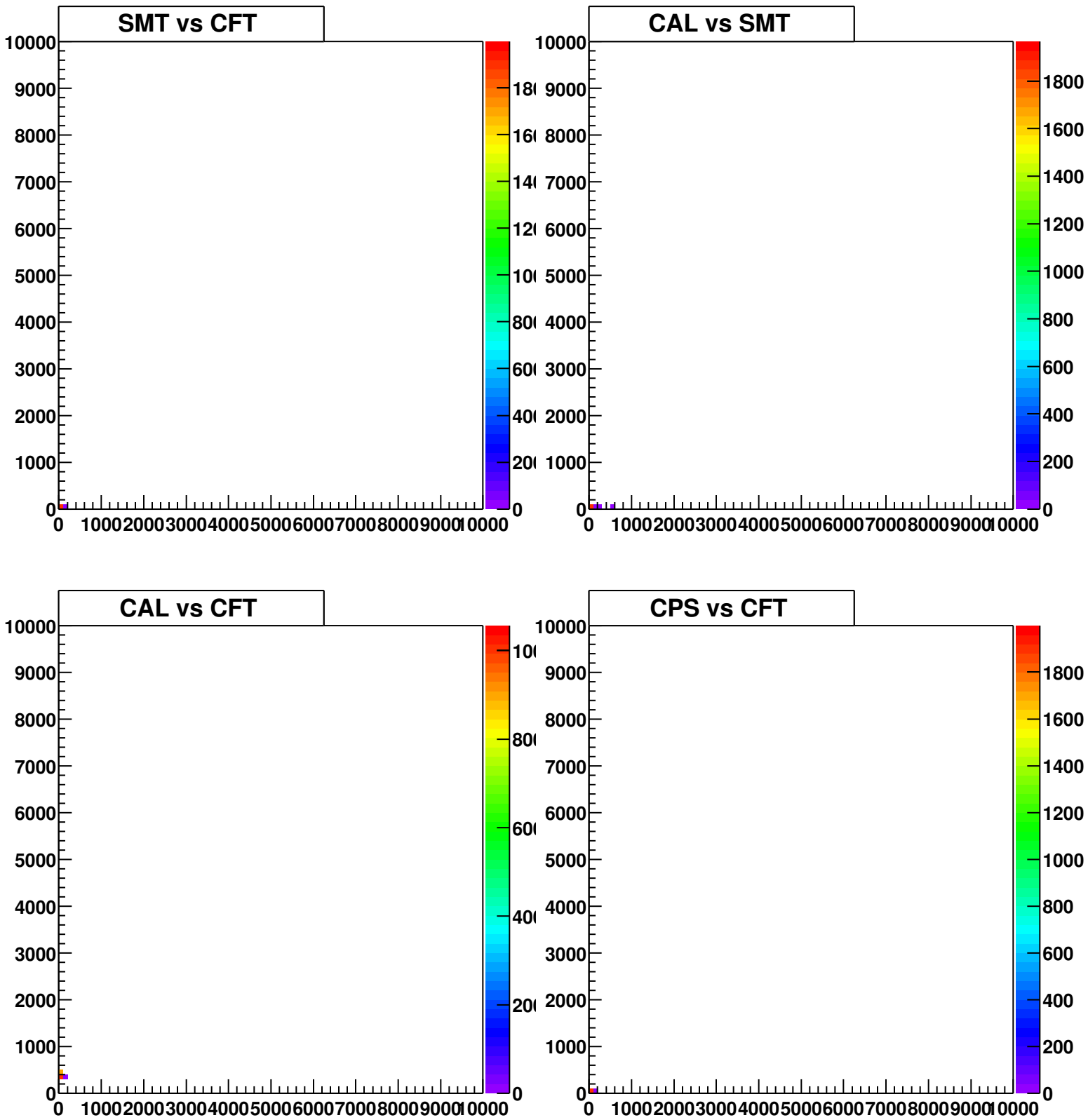




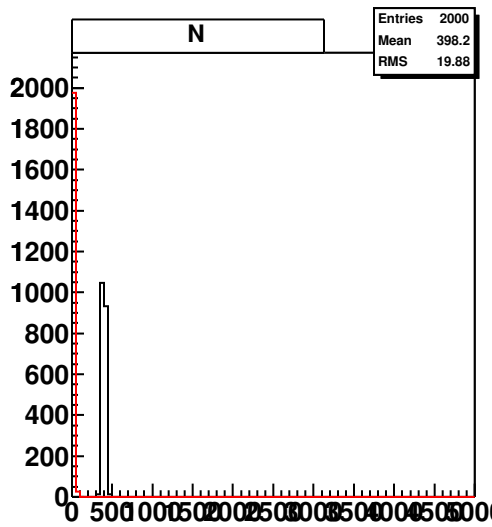


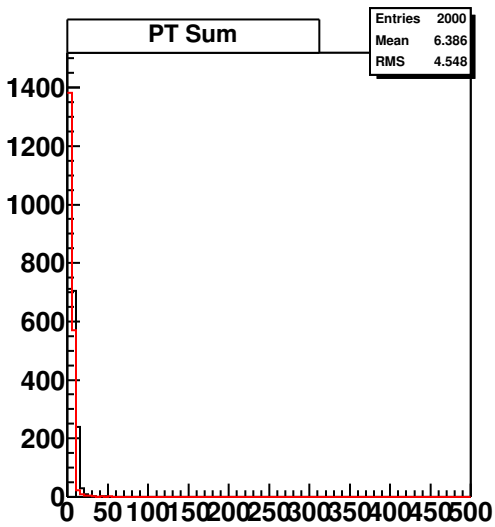


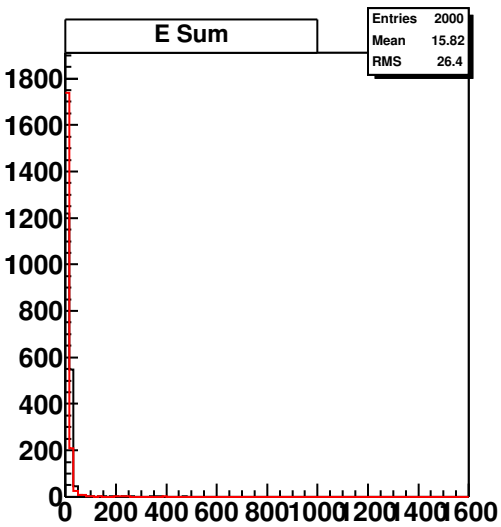
Detector Occupancy (Detector)

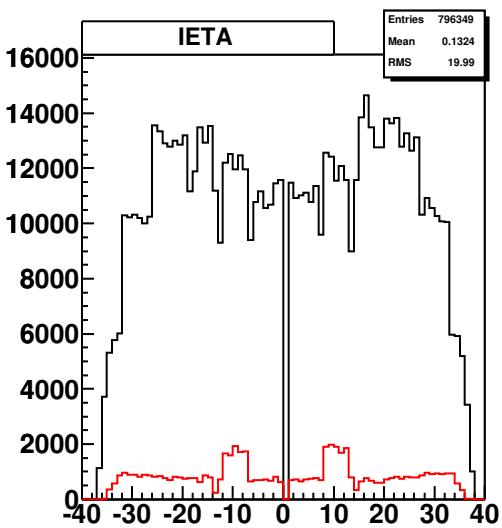


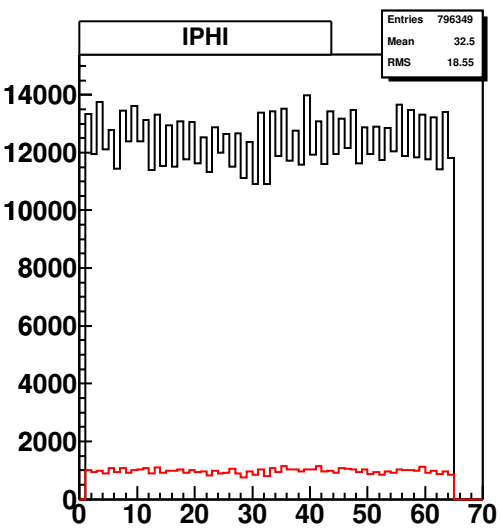
Detector Occupancy (Detector)

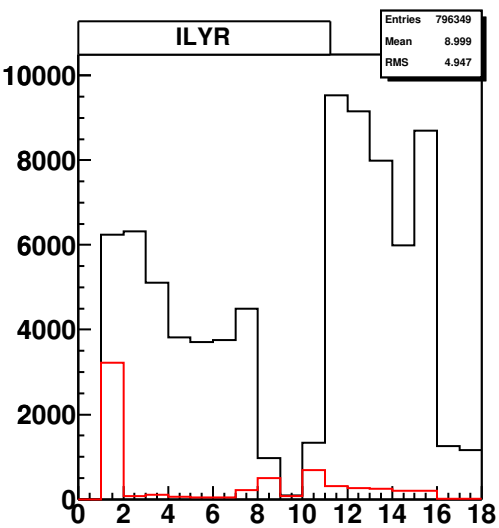


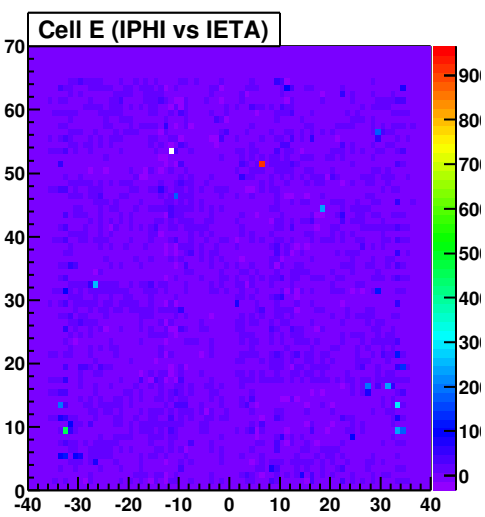


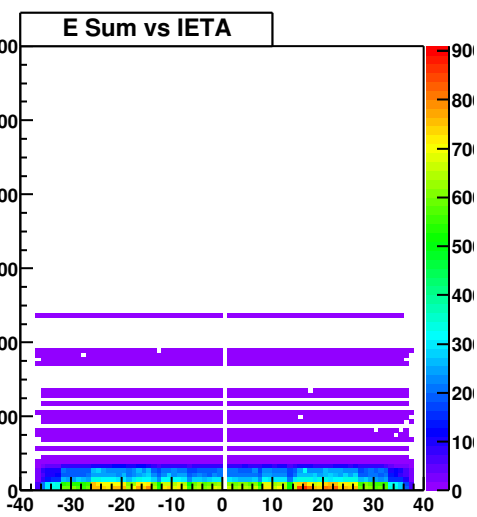


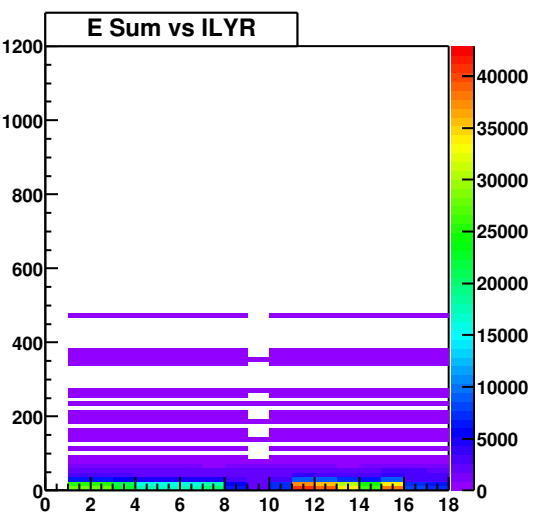




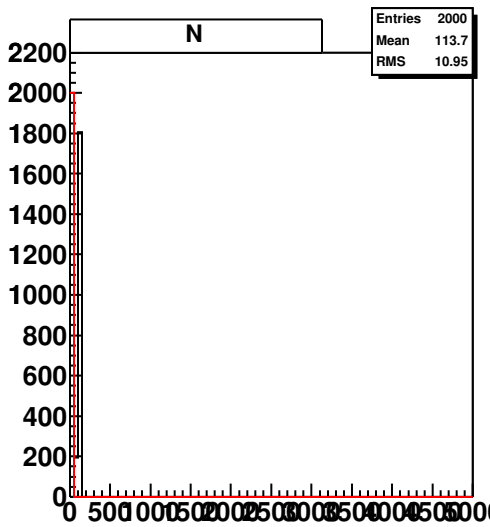


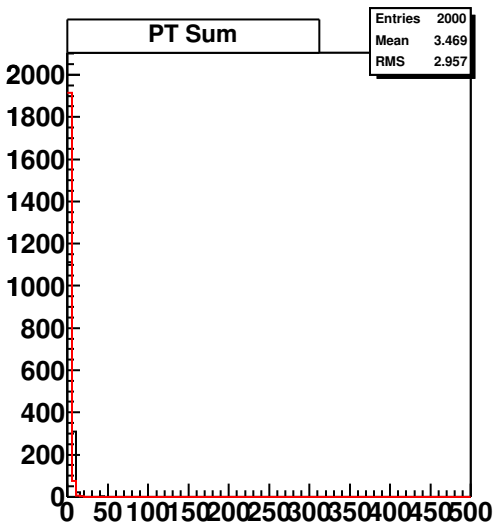


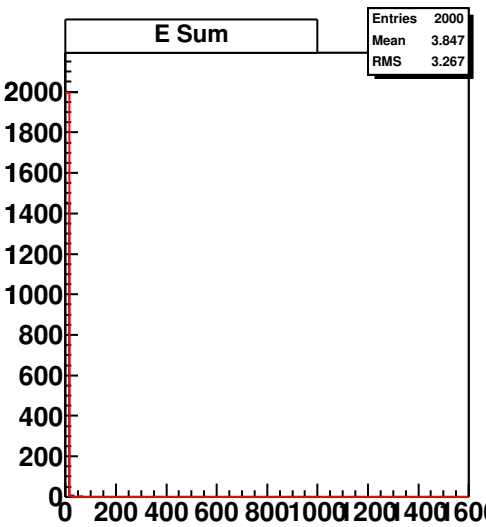


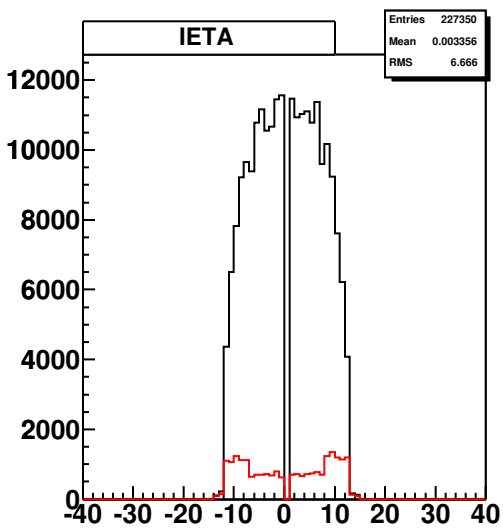


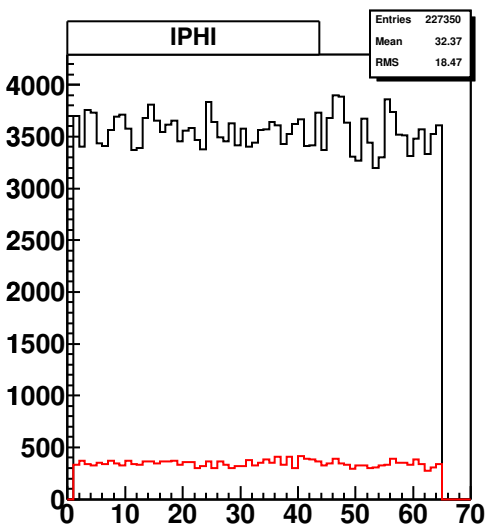
Calorimeter (All cells)

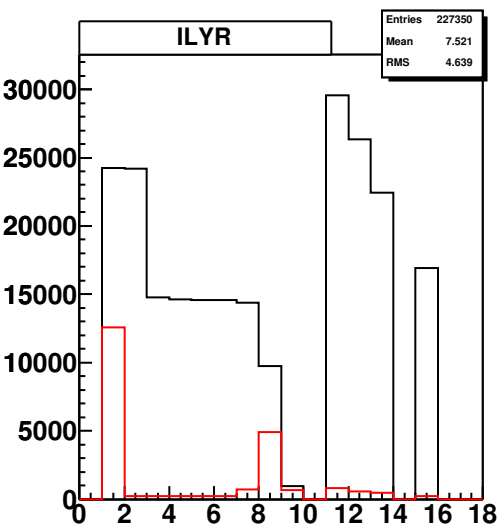


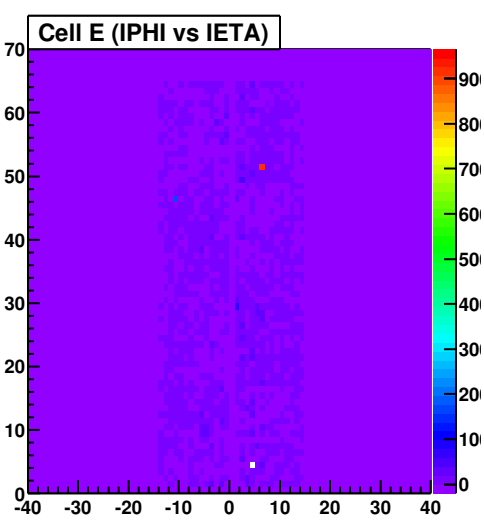


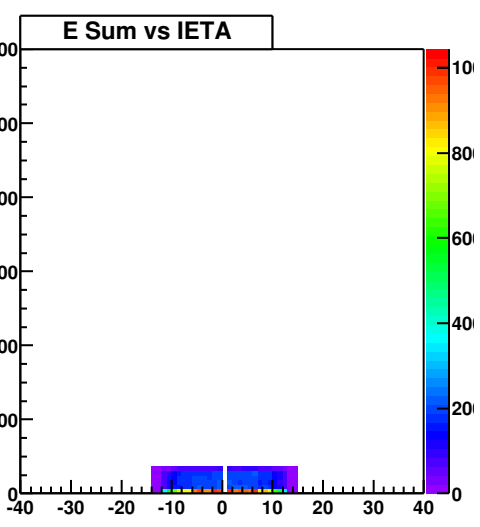


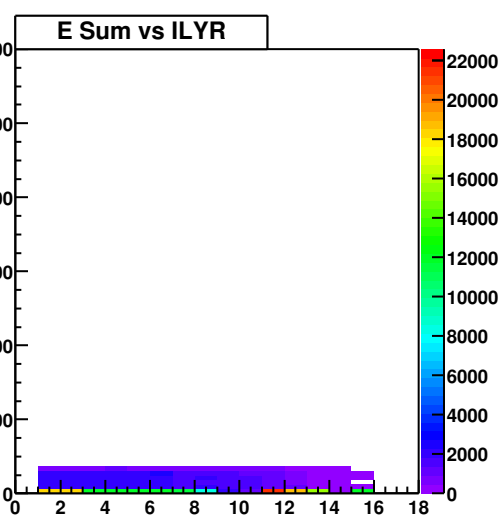




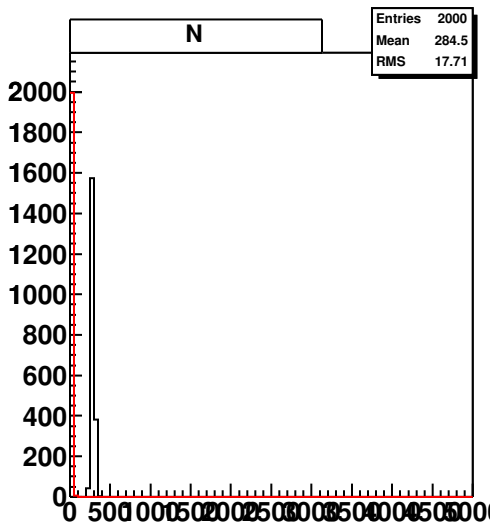


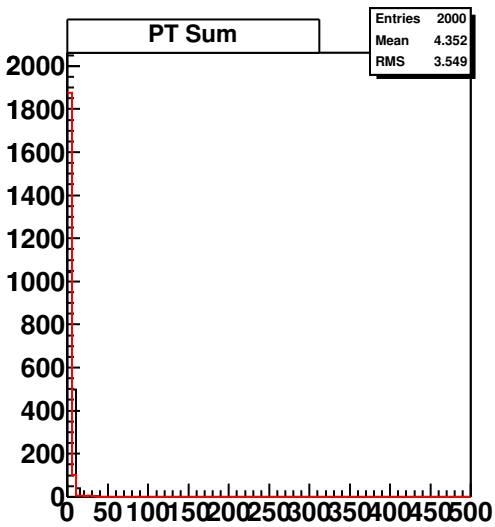


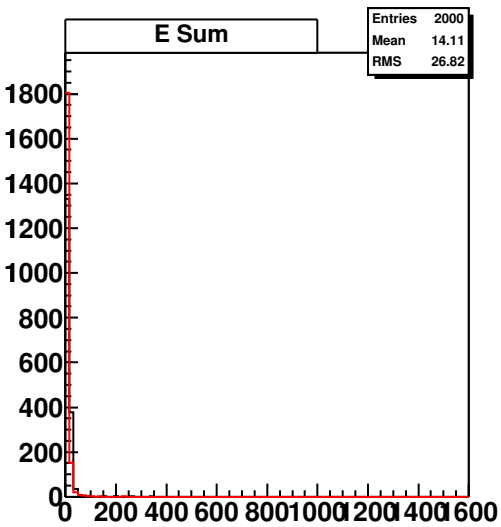


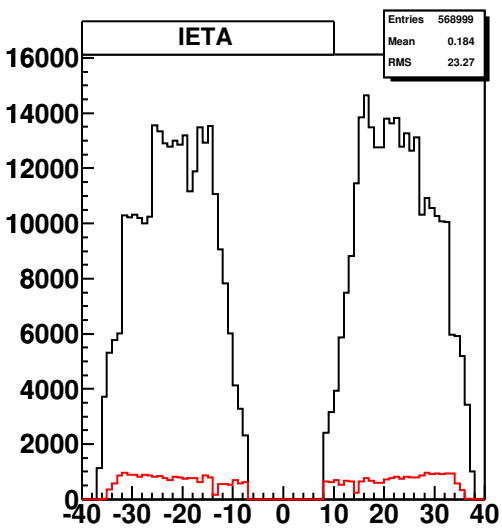


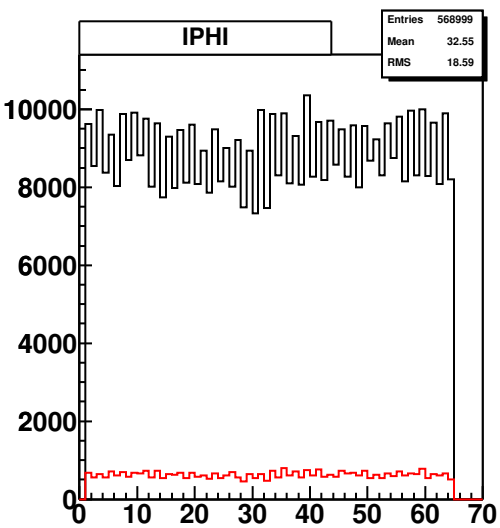
Calorimeter (All CC cells)

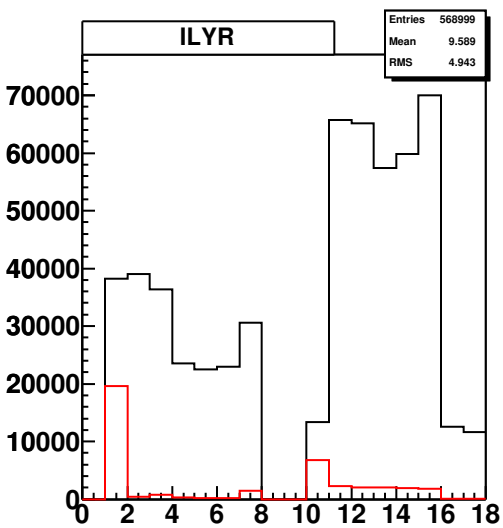


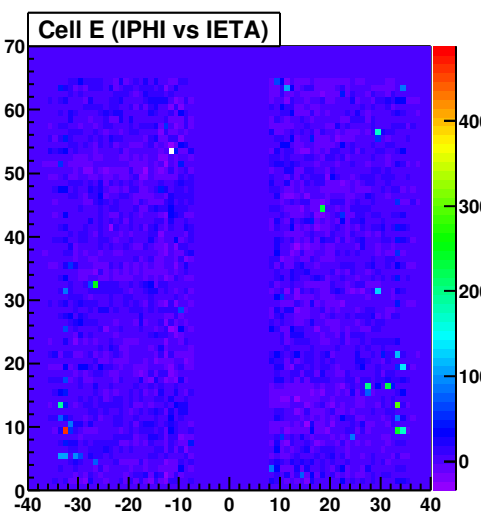


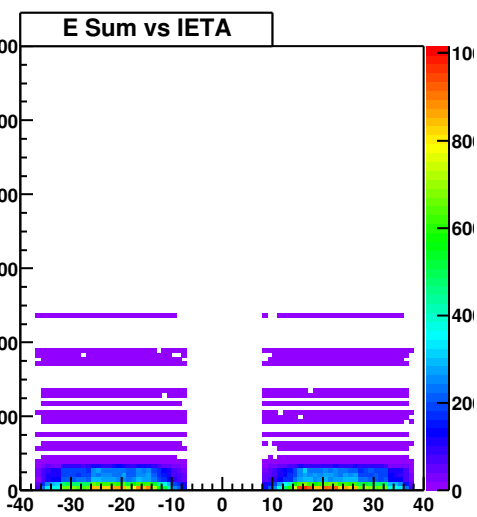


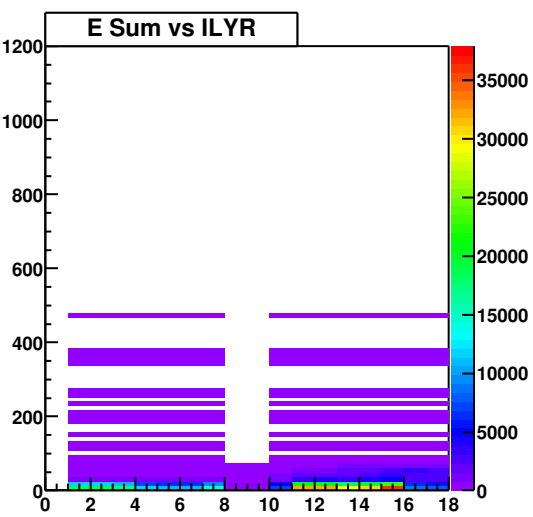




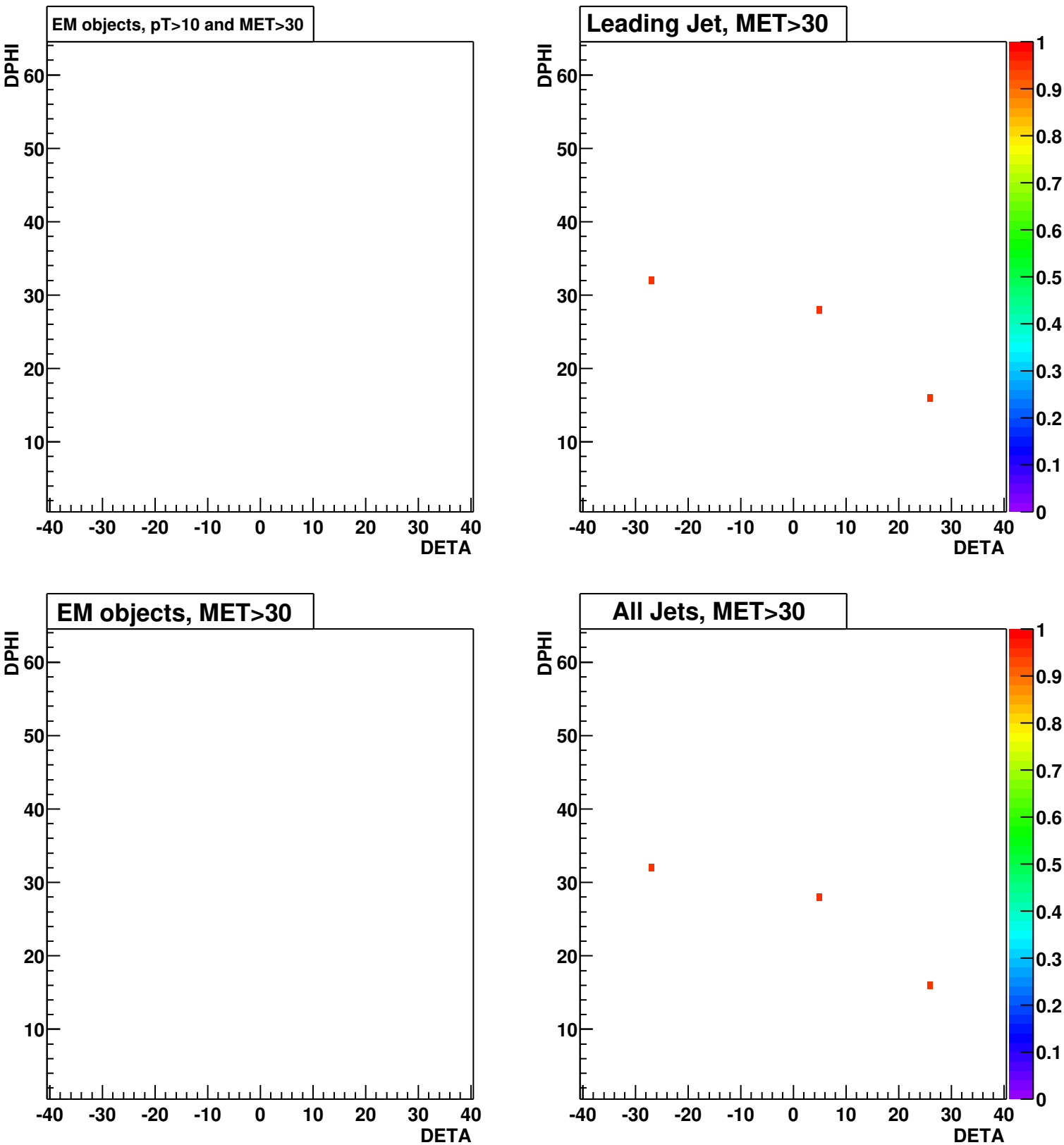




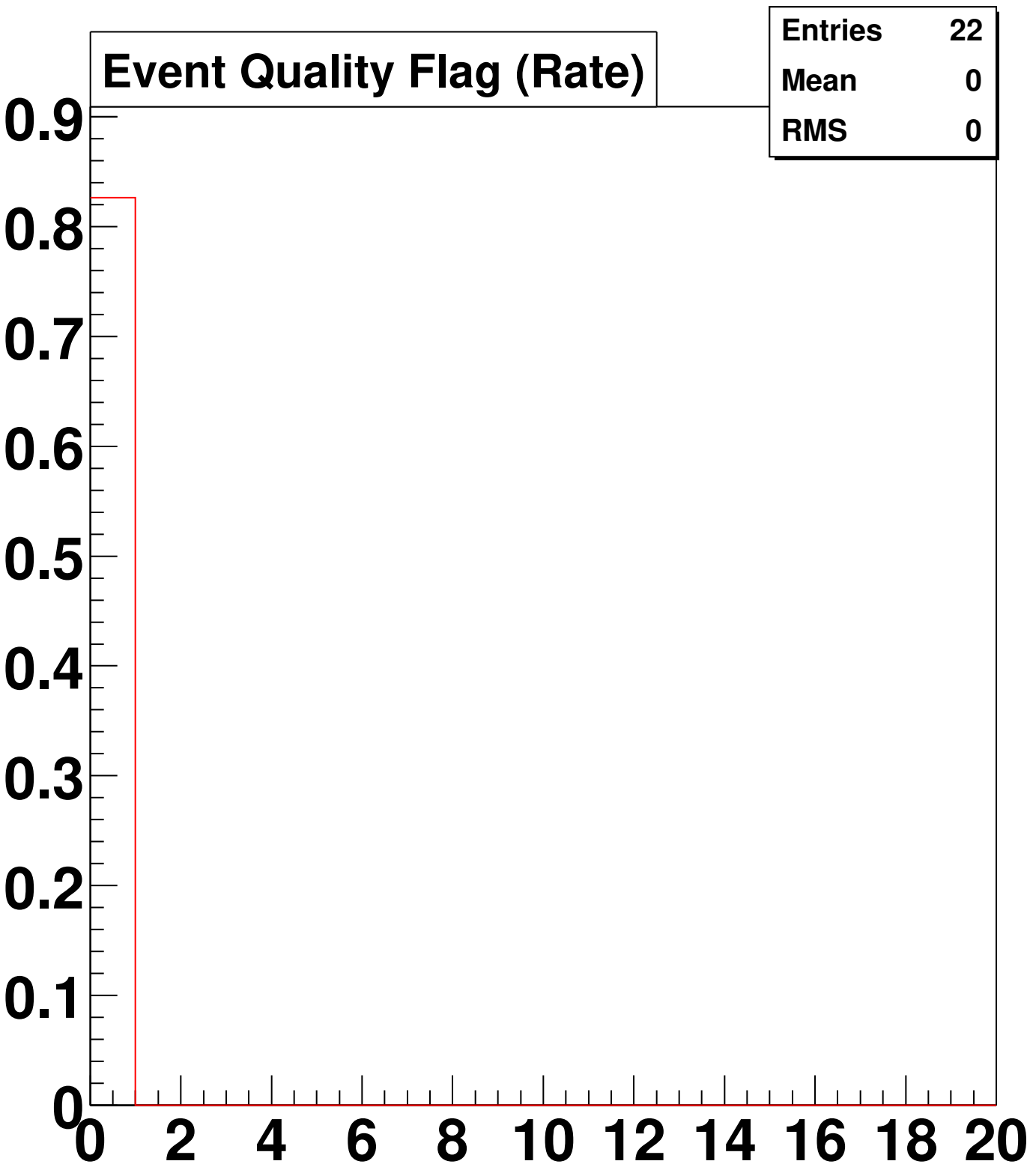




Calorimeter (All EC cells)



Cal Objects with MET>30 (All cells)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Mean 0
RMS 0
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0.8
0.7
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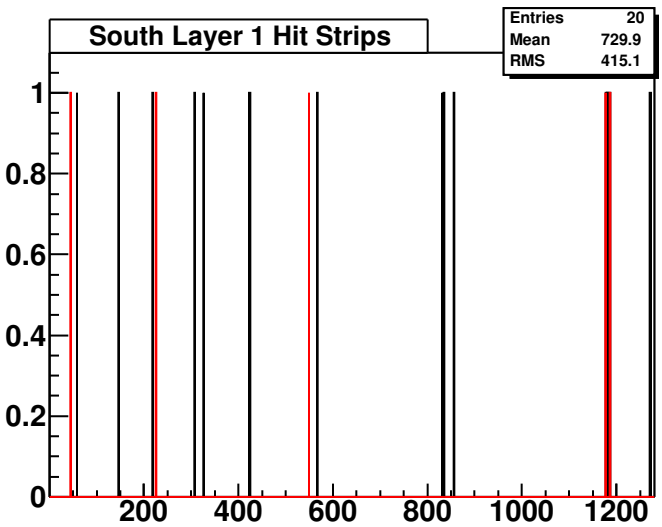
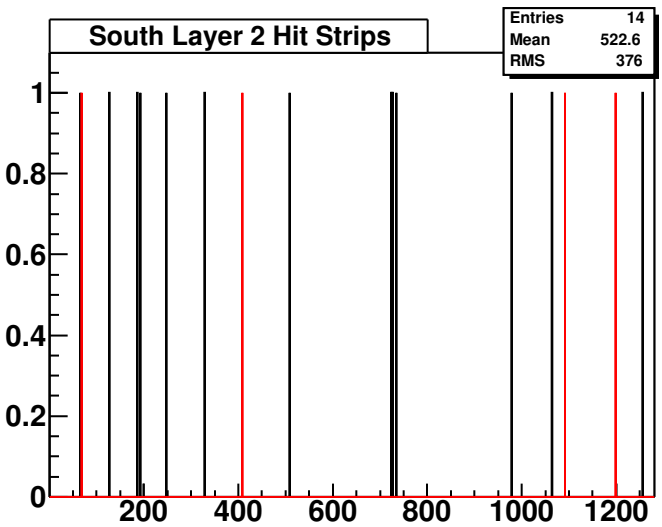
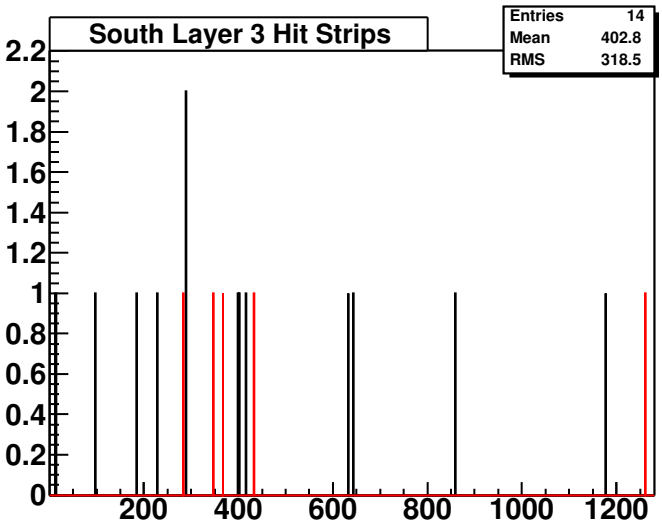
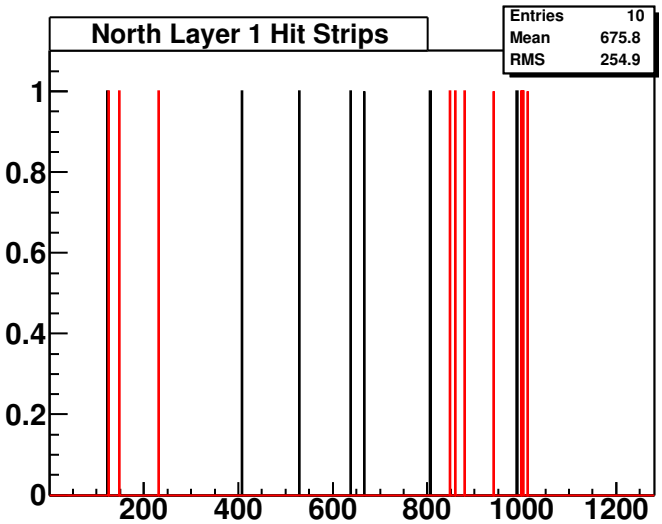
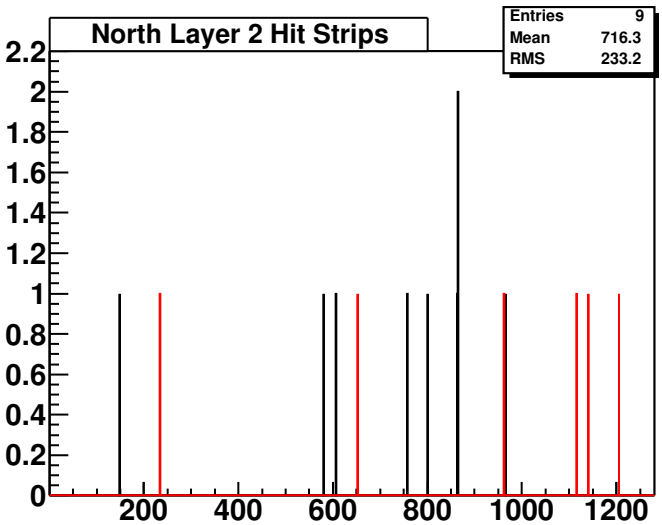
0.4
0.3
0.2
0.1
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

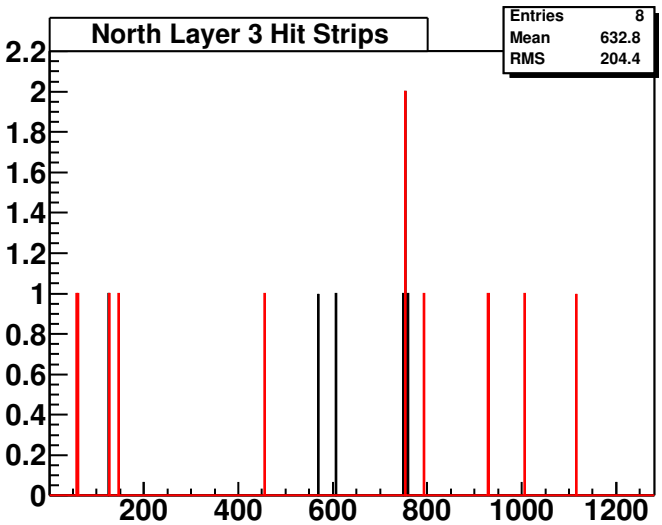




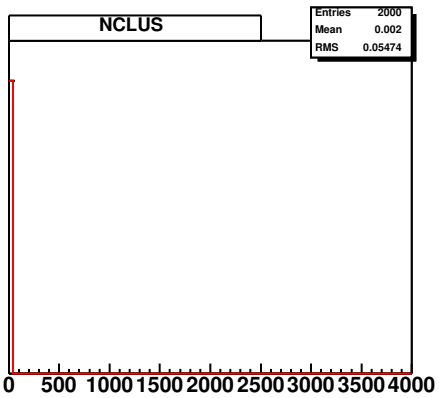


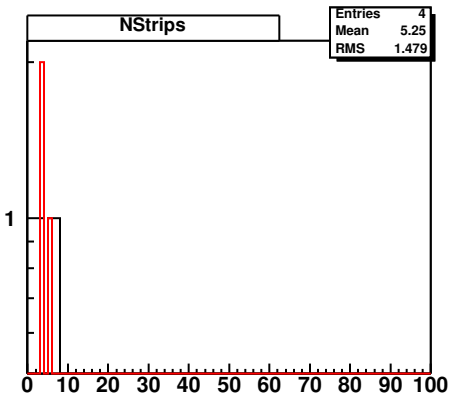


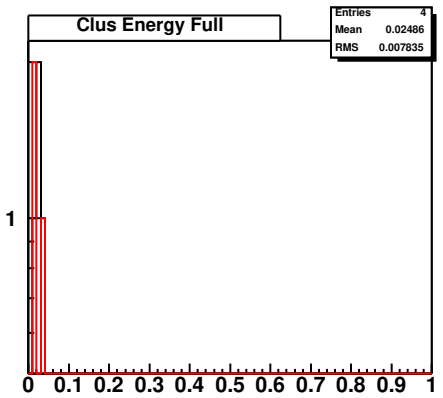


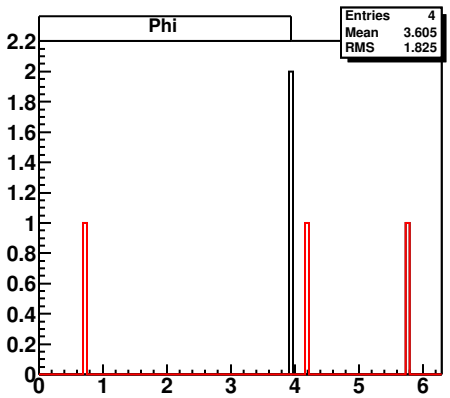


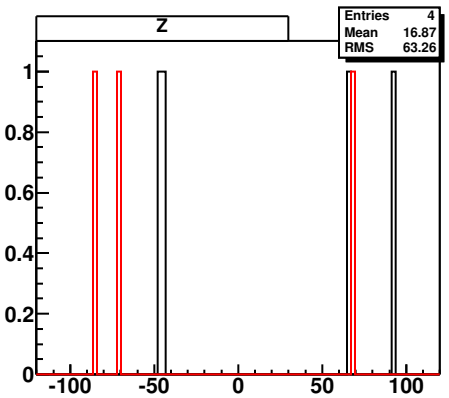
CPS Hit Strips (All Clusters)

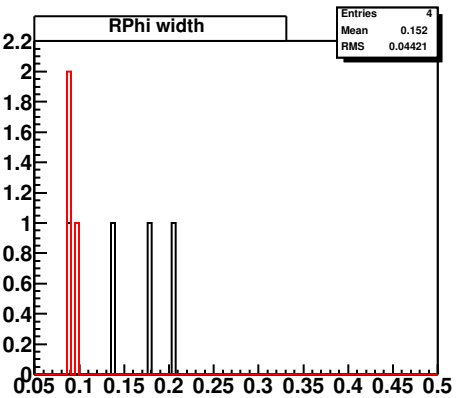


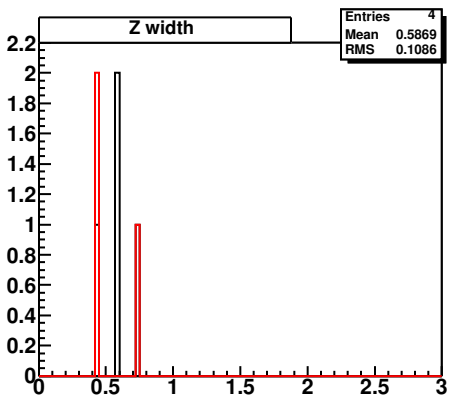


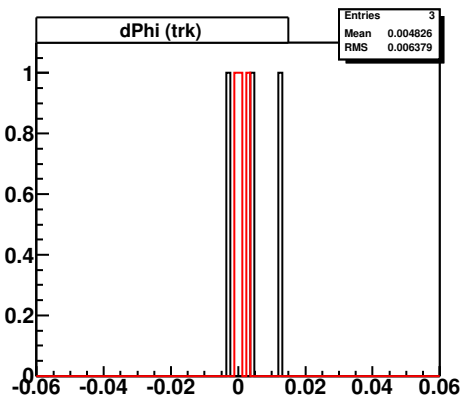


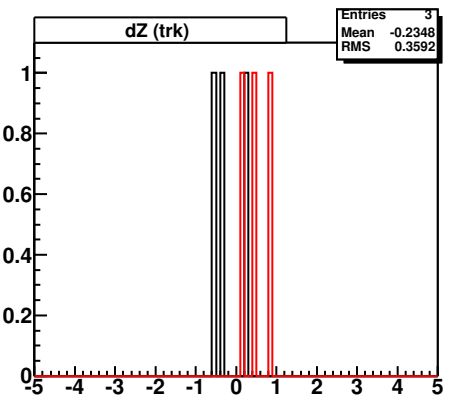


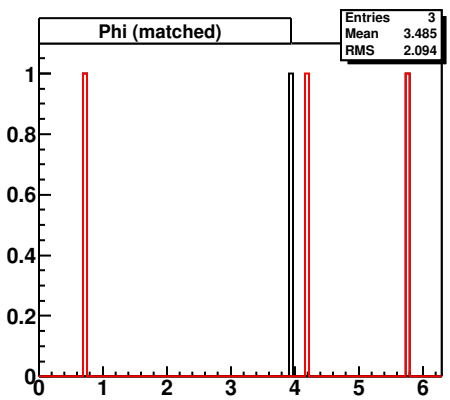


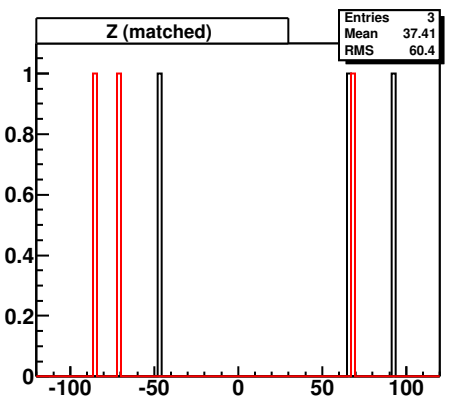




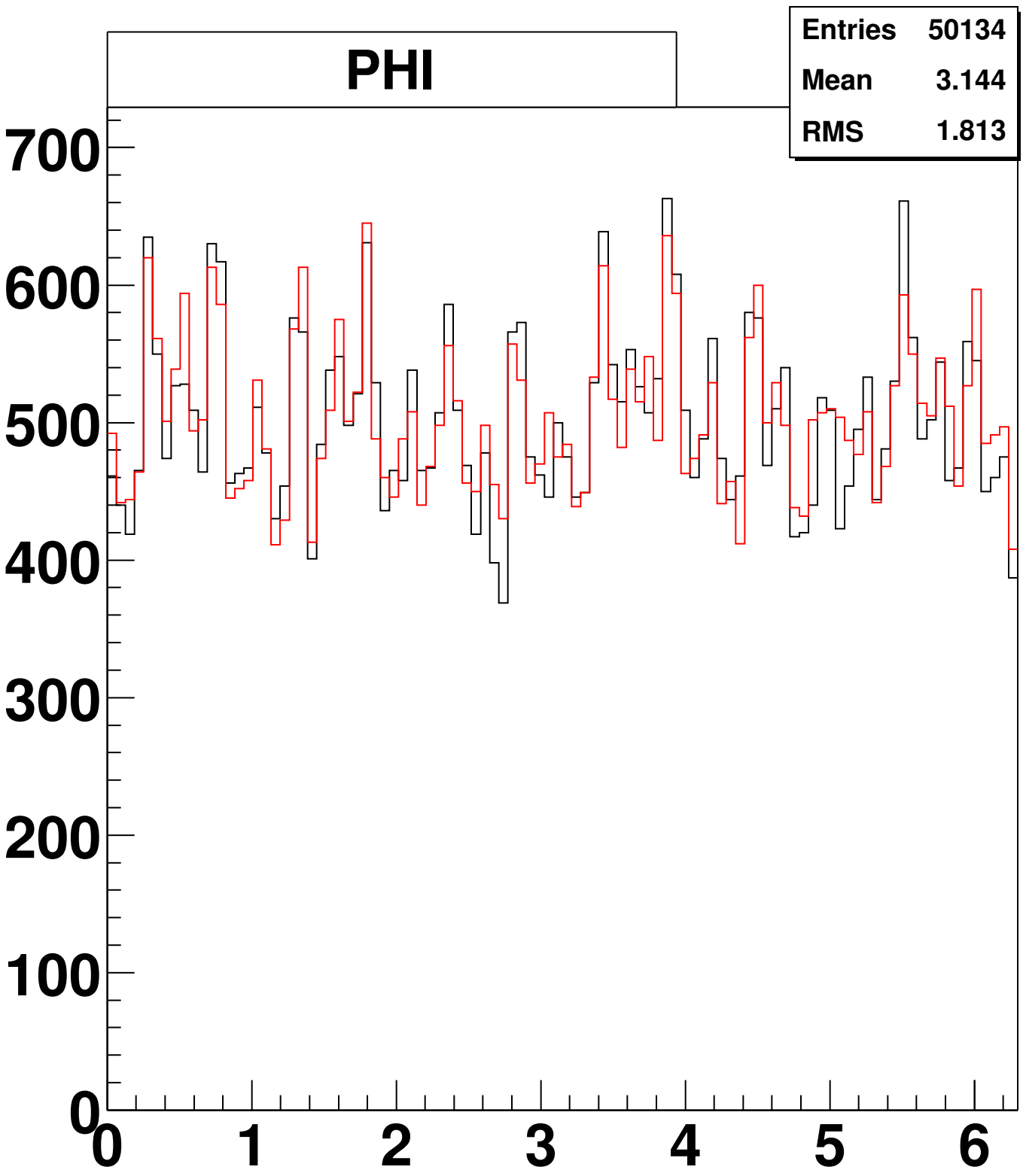








CPS Clusters (All Clusters)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Mean 3.144
RMS 1.813
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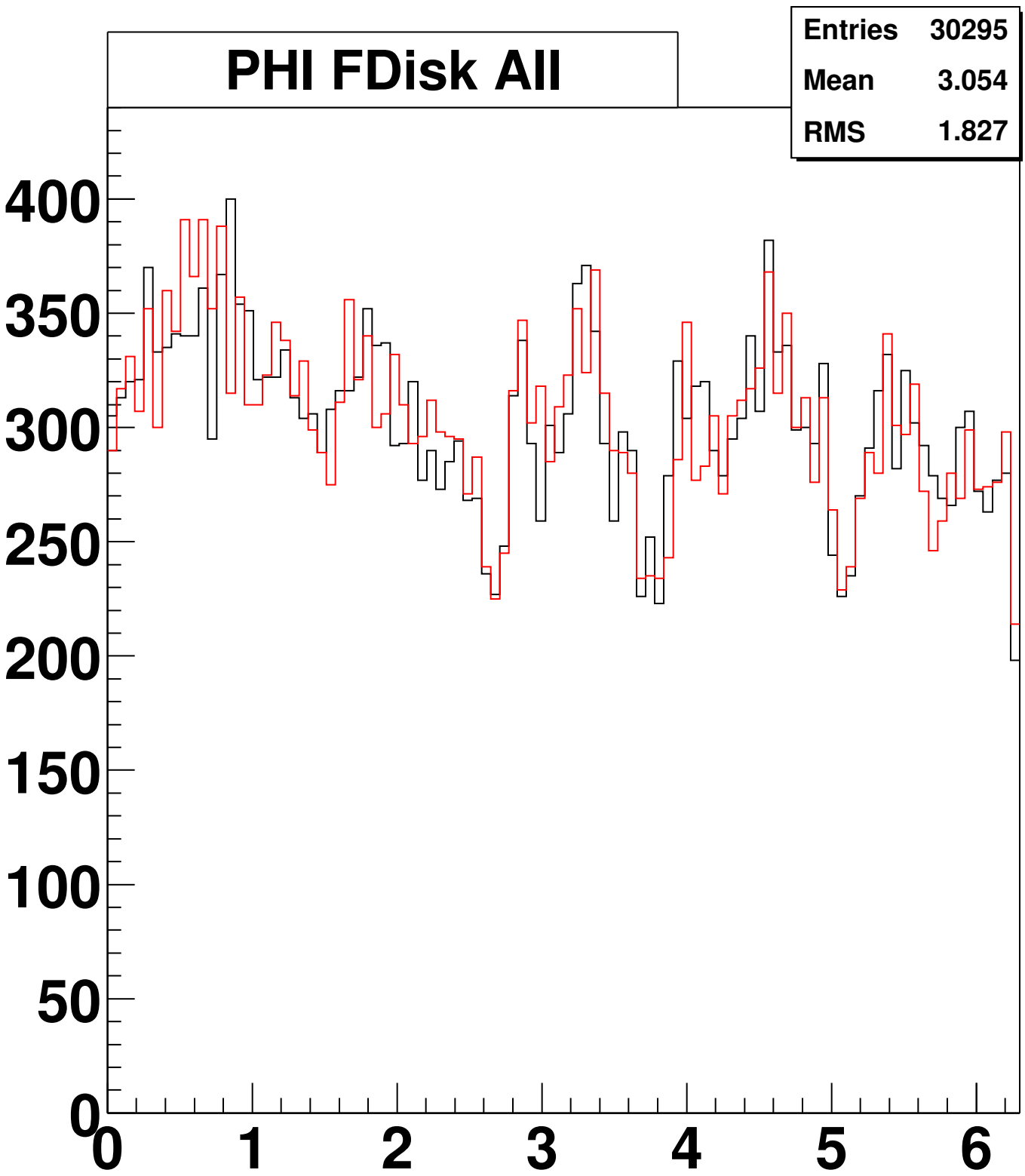
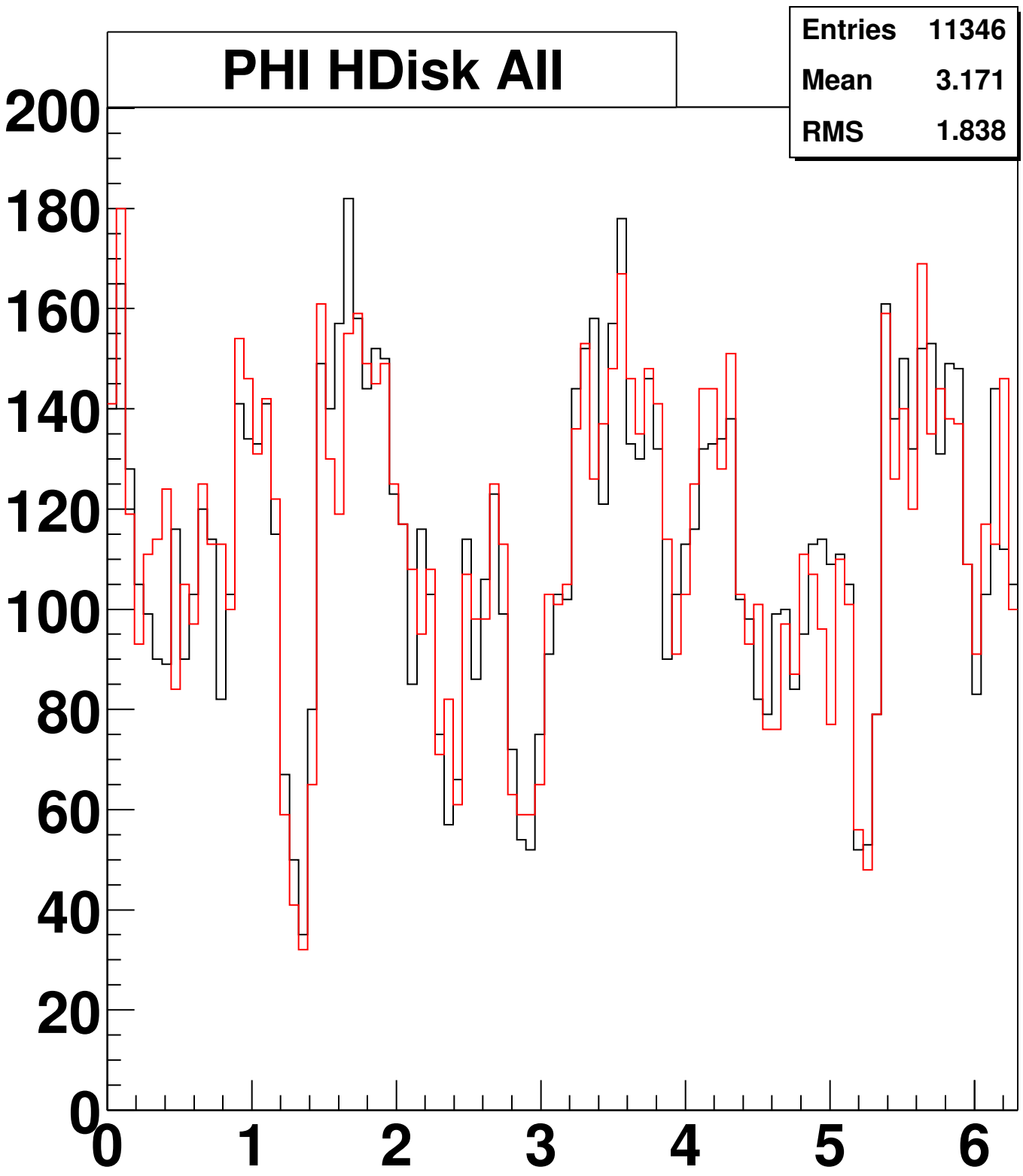
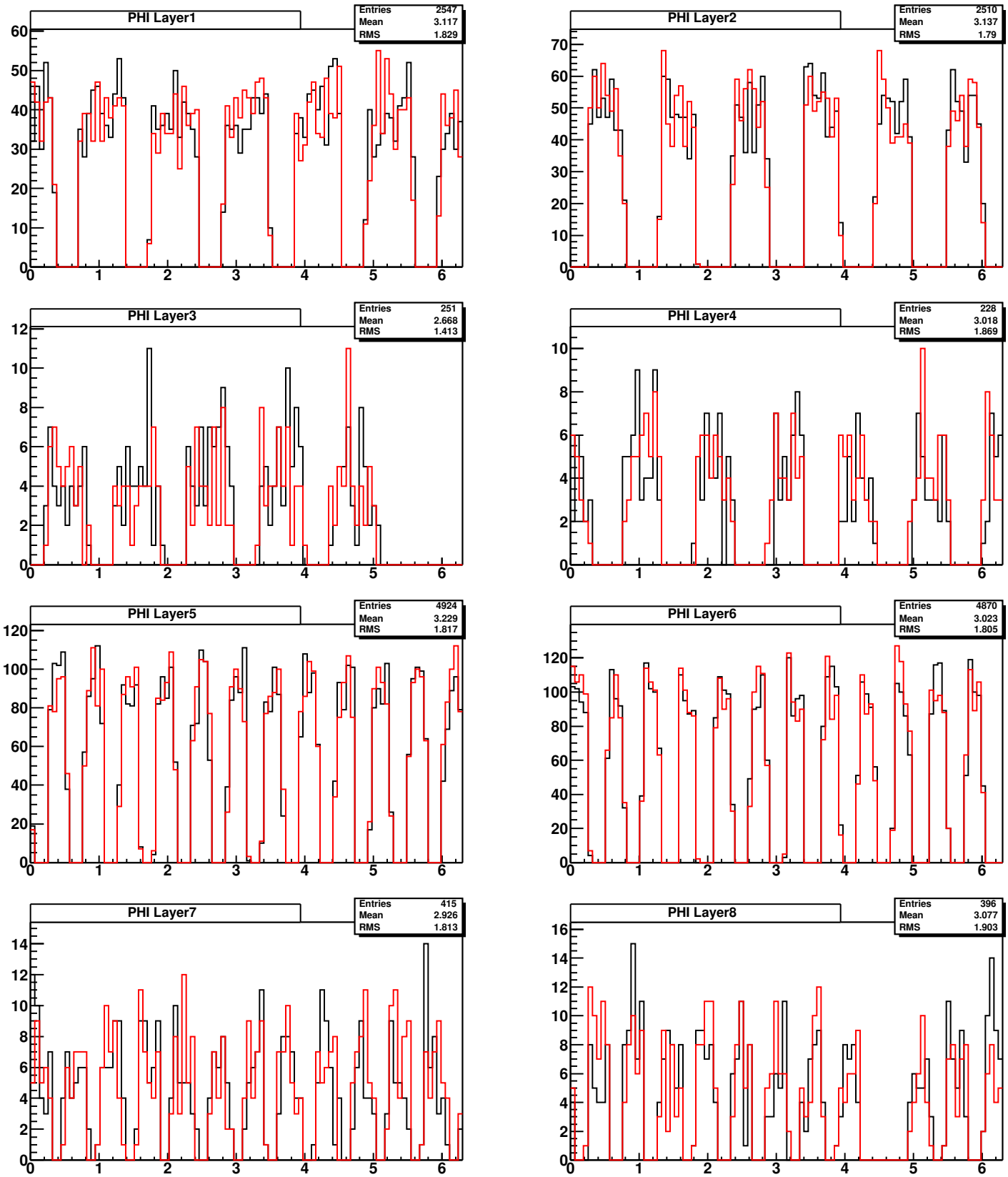
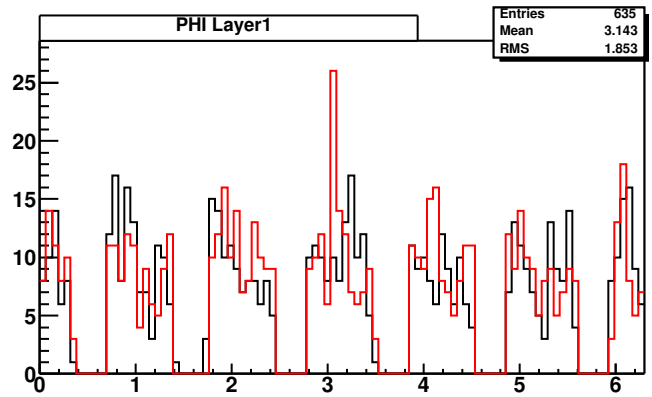
600
500
400
300
200
100
0
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

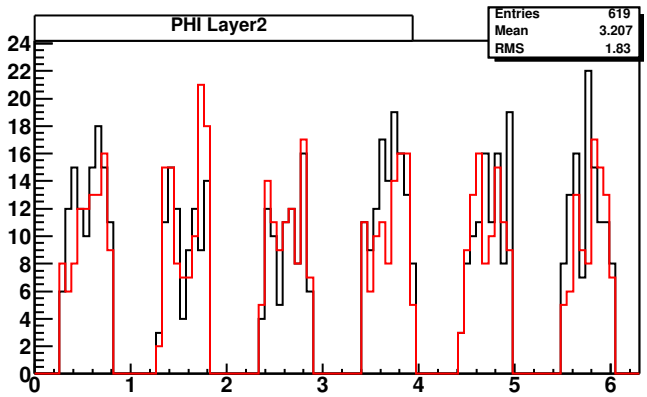

PHI FDisk All
Entries 30295
Mean 3.054
RMS 1.827
400
350
300
250
200
150
100
50
0
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

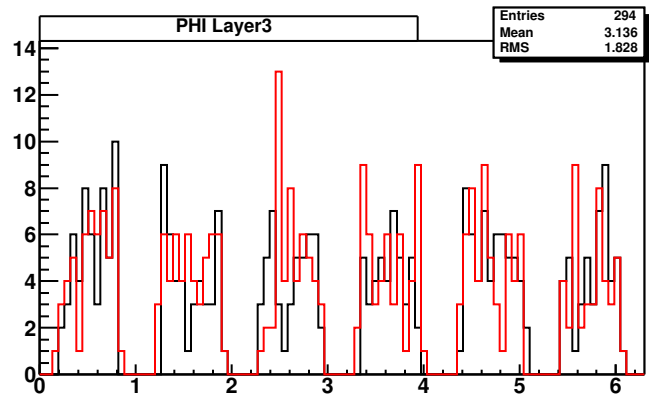

PHI HDisk All
Entries 11346
Mean 3.171
RMS 1.838
200
180
160
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

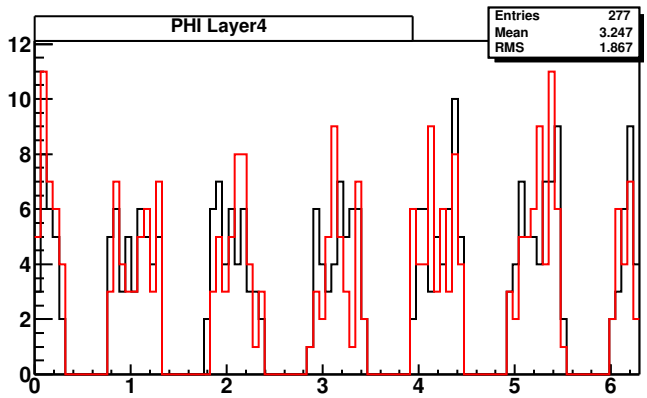


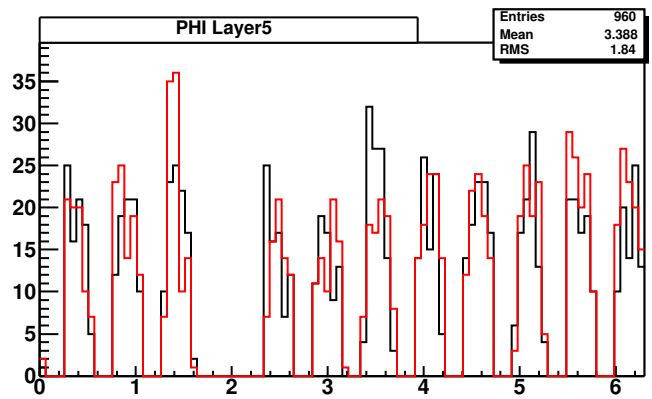
SmtClusters (ClustrBar1)

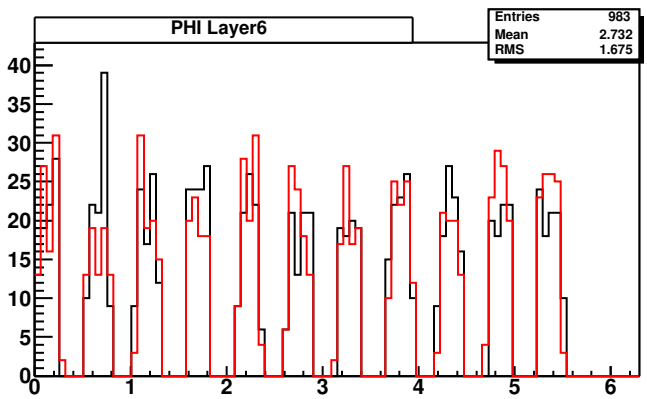


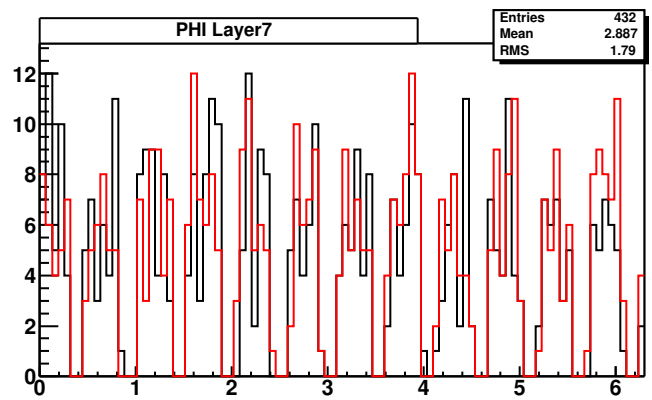


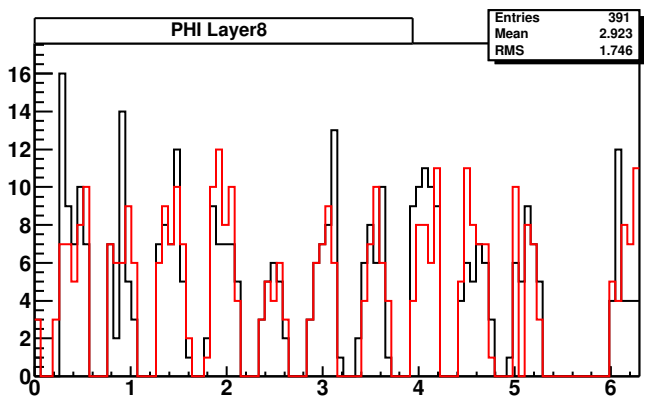




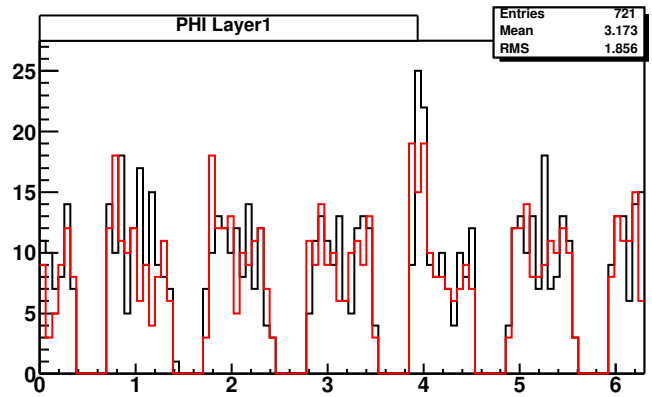


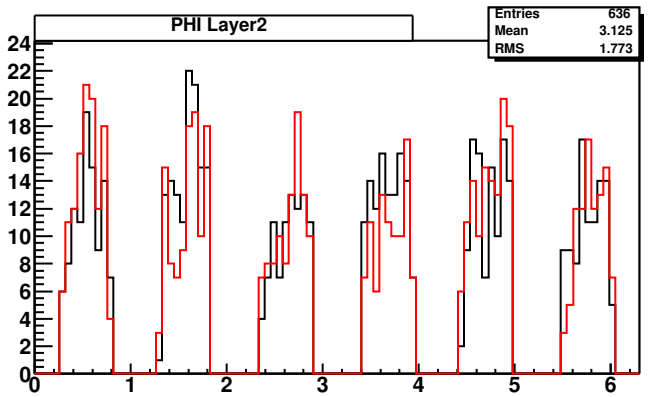


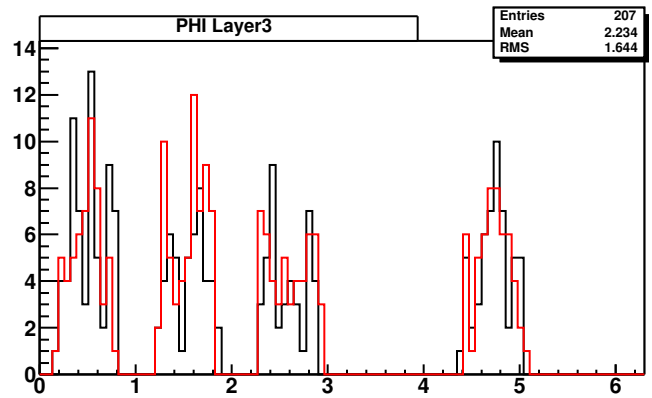


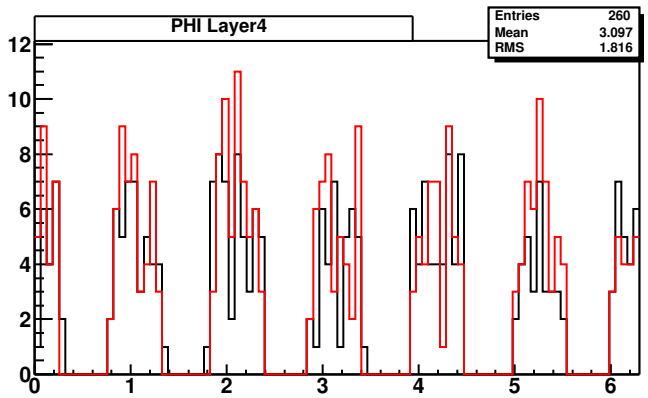


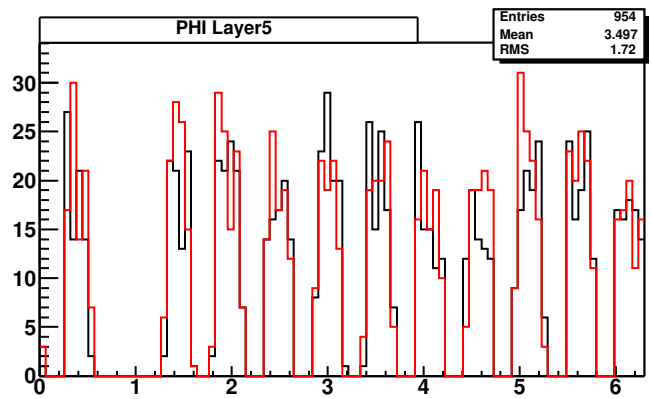
SmtClusters (ClustrBar2)

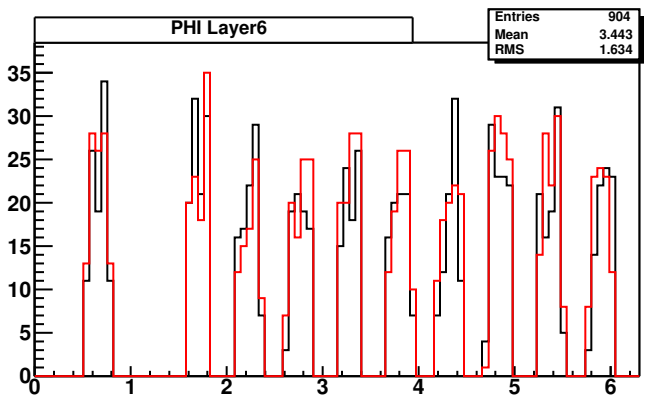


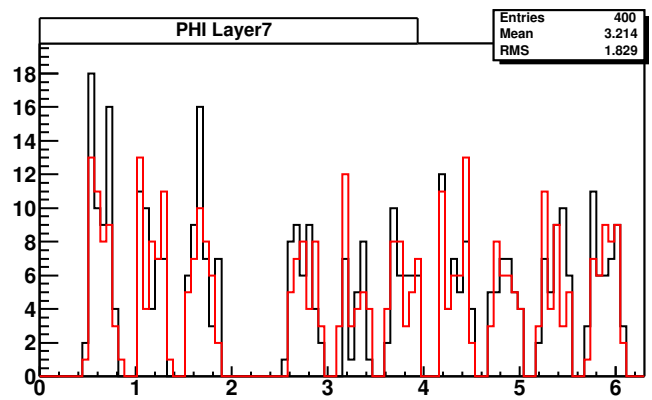


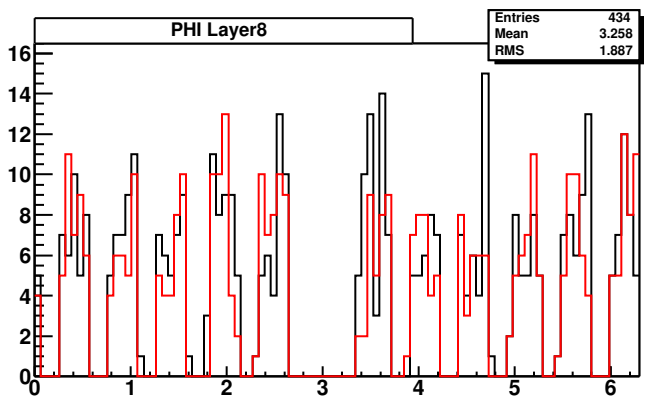




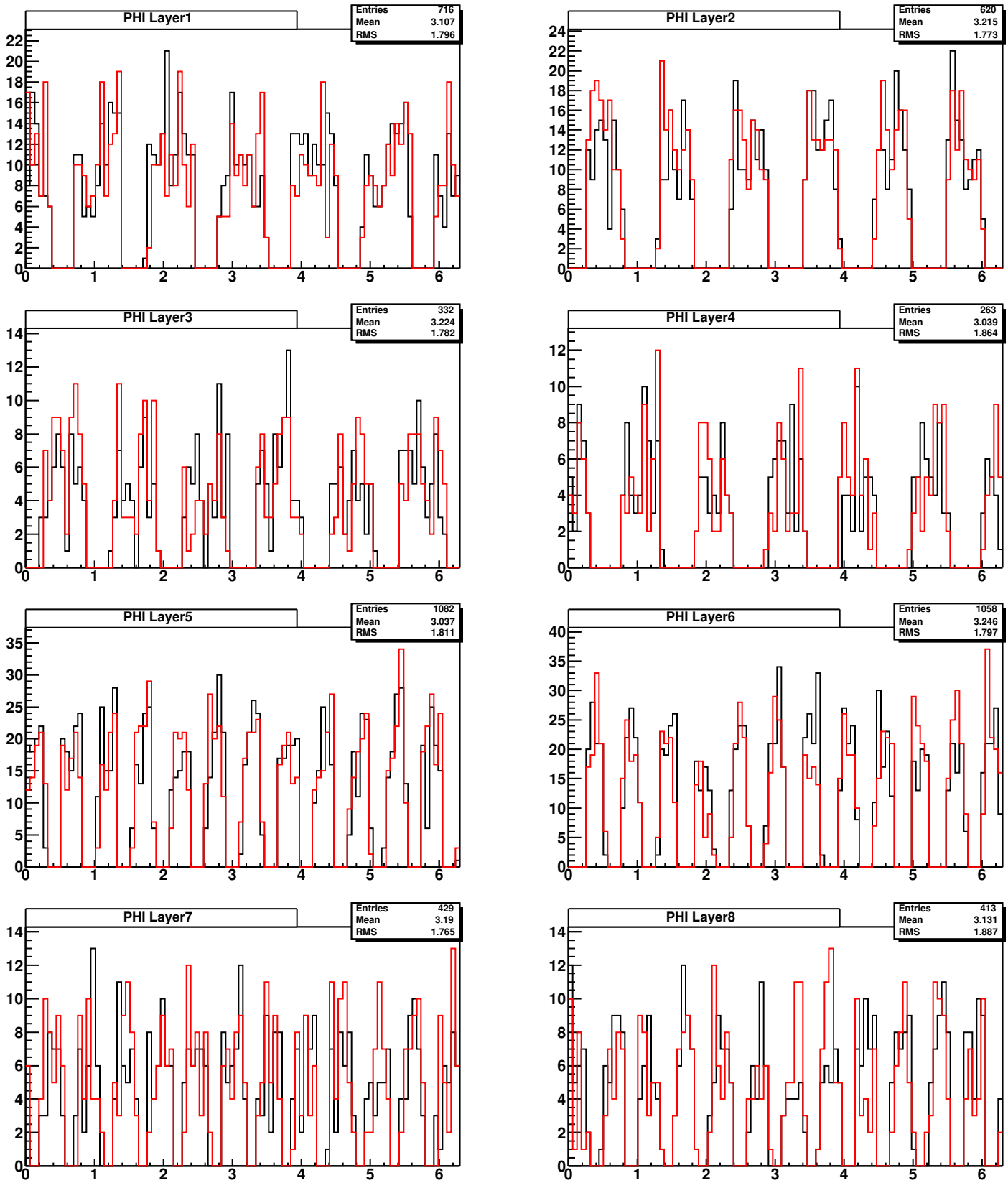




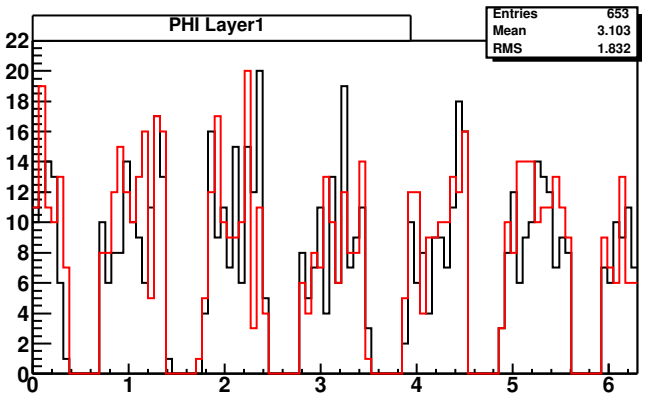


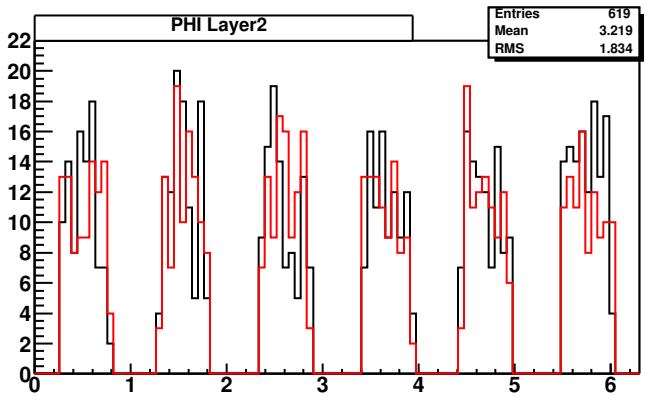


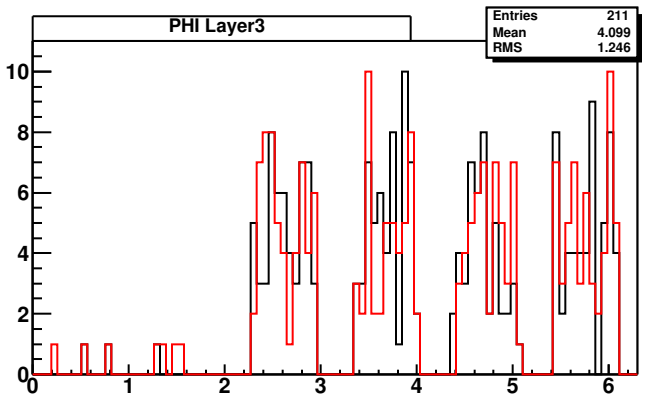
SmtClusters (ClustrBar3)

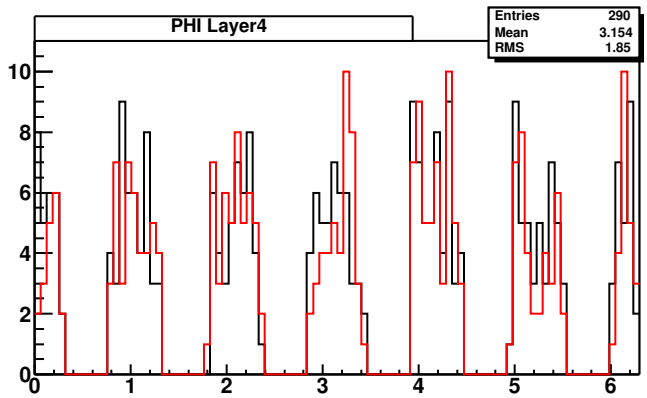


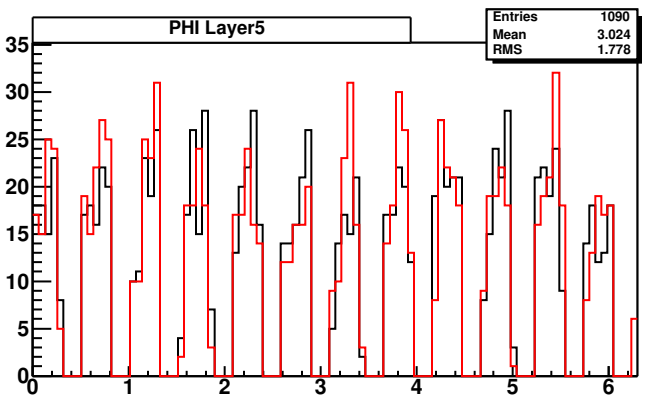
SmtClusters (ClustrBar4)

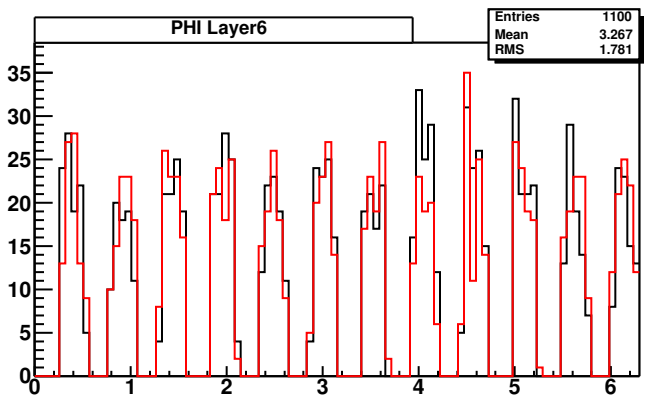


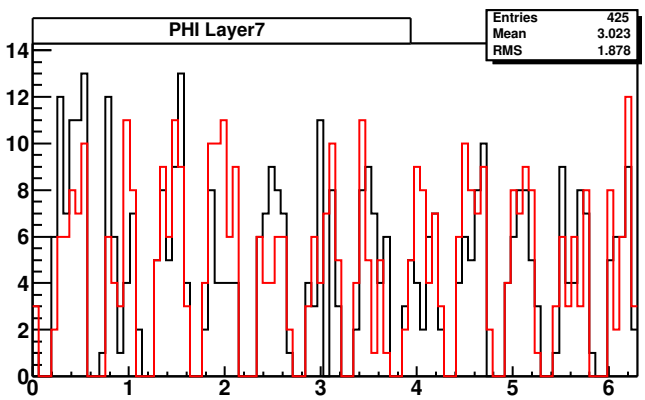


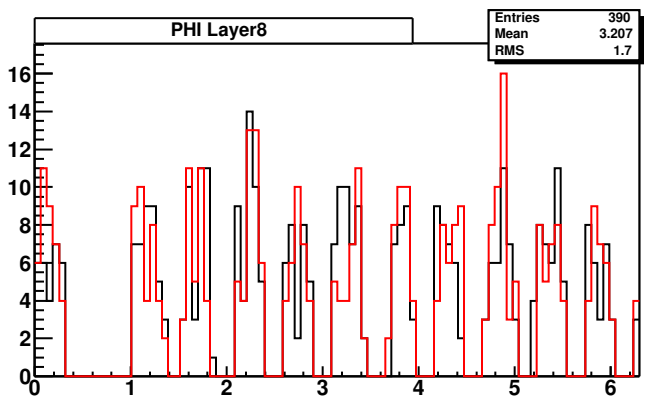




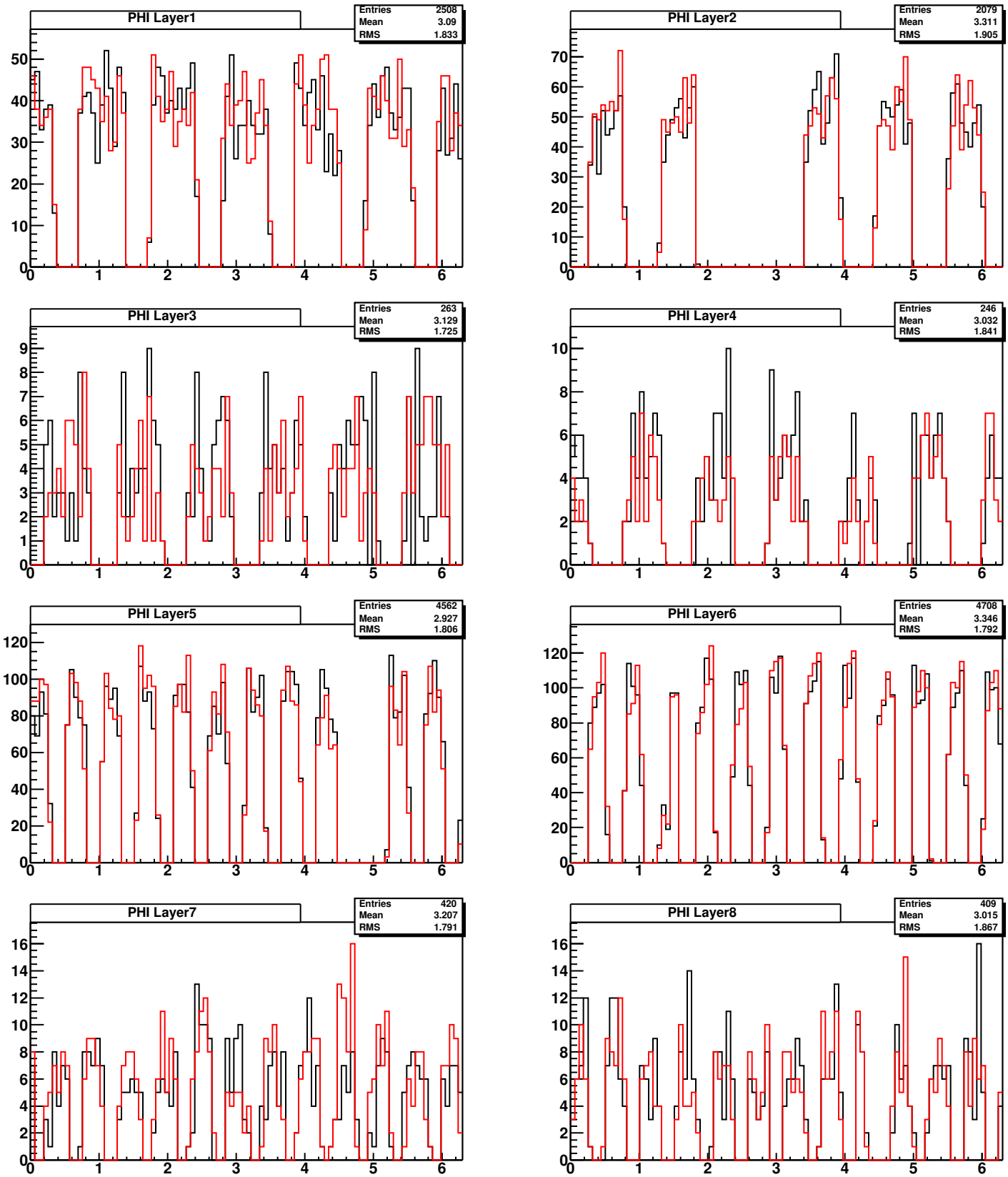




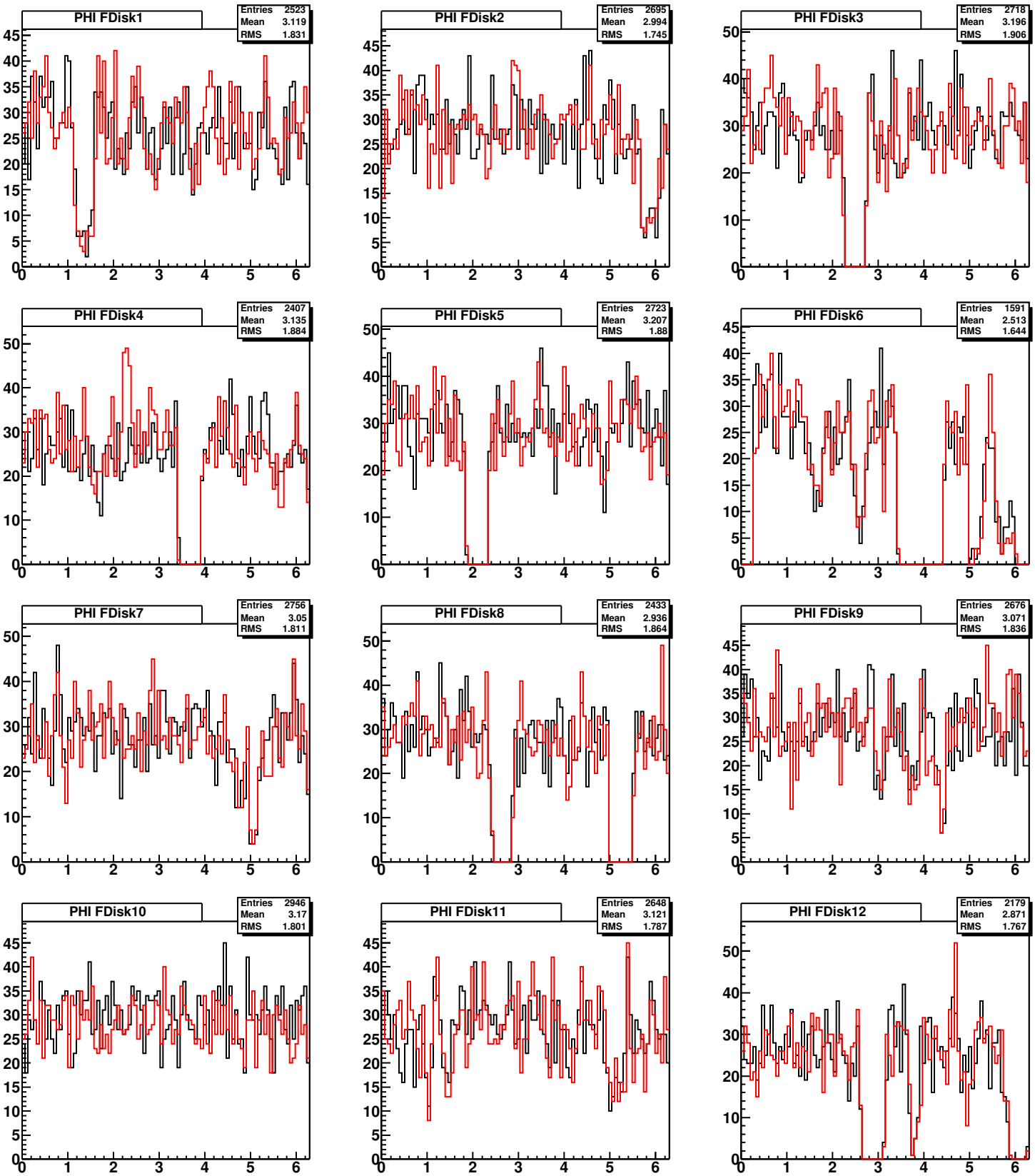




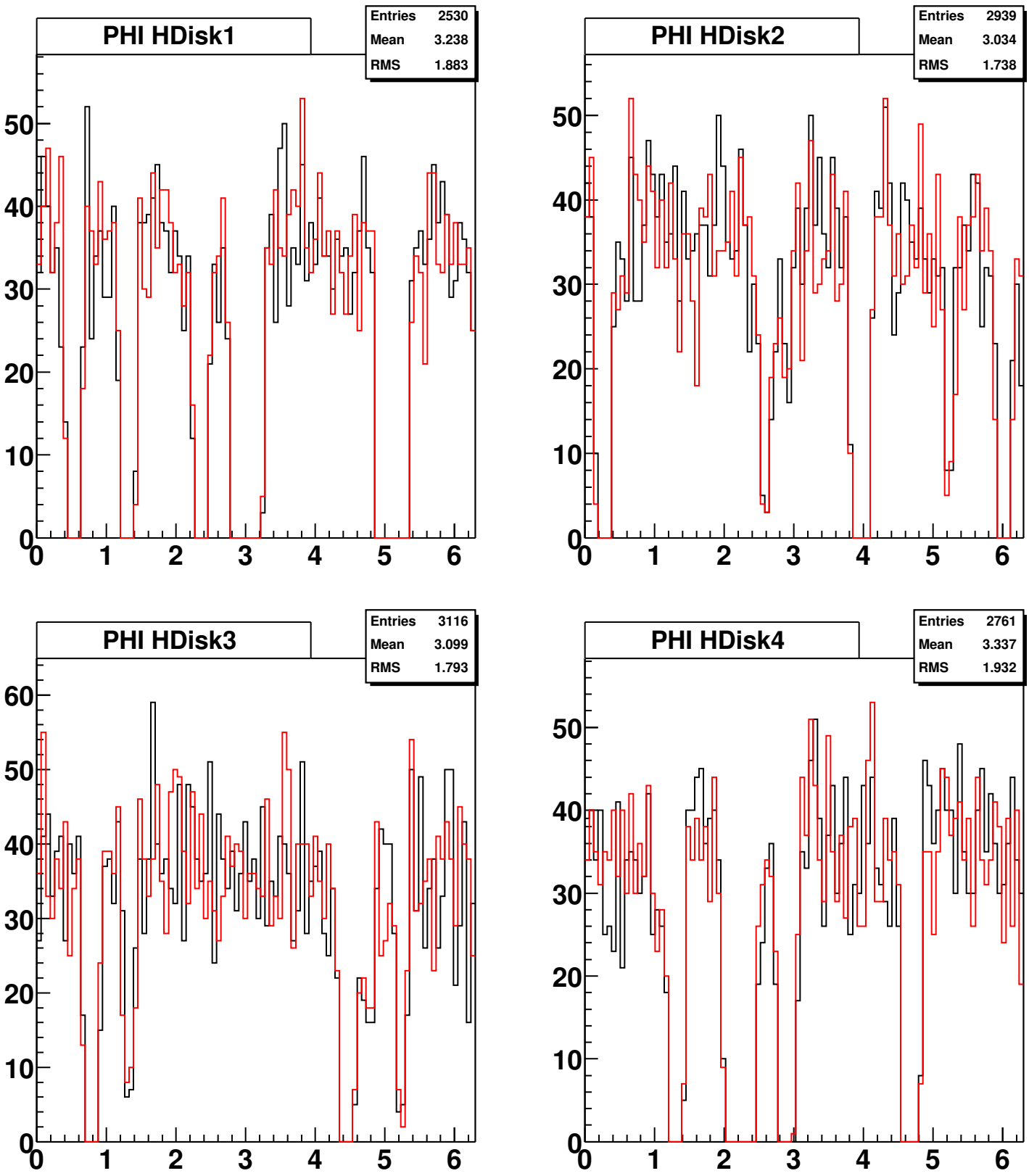
SmtClusters (ClustrBar5)

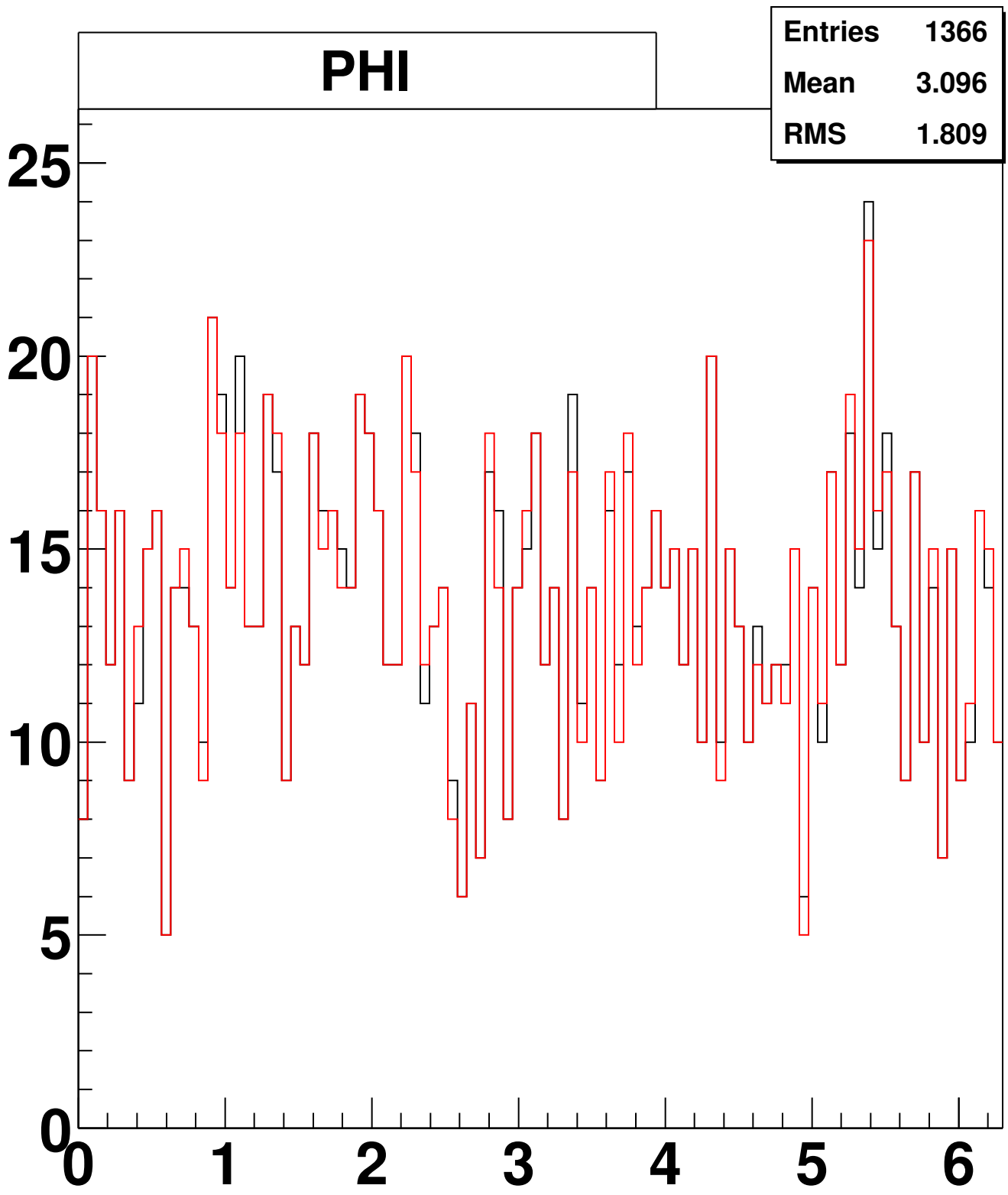


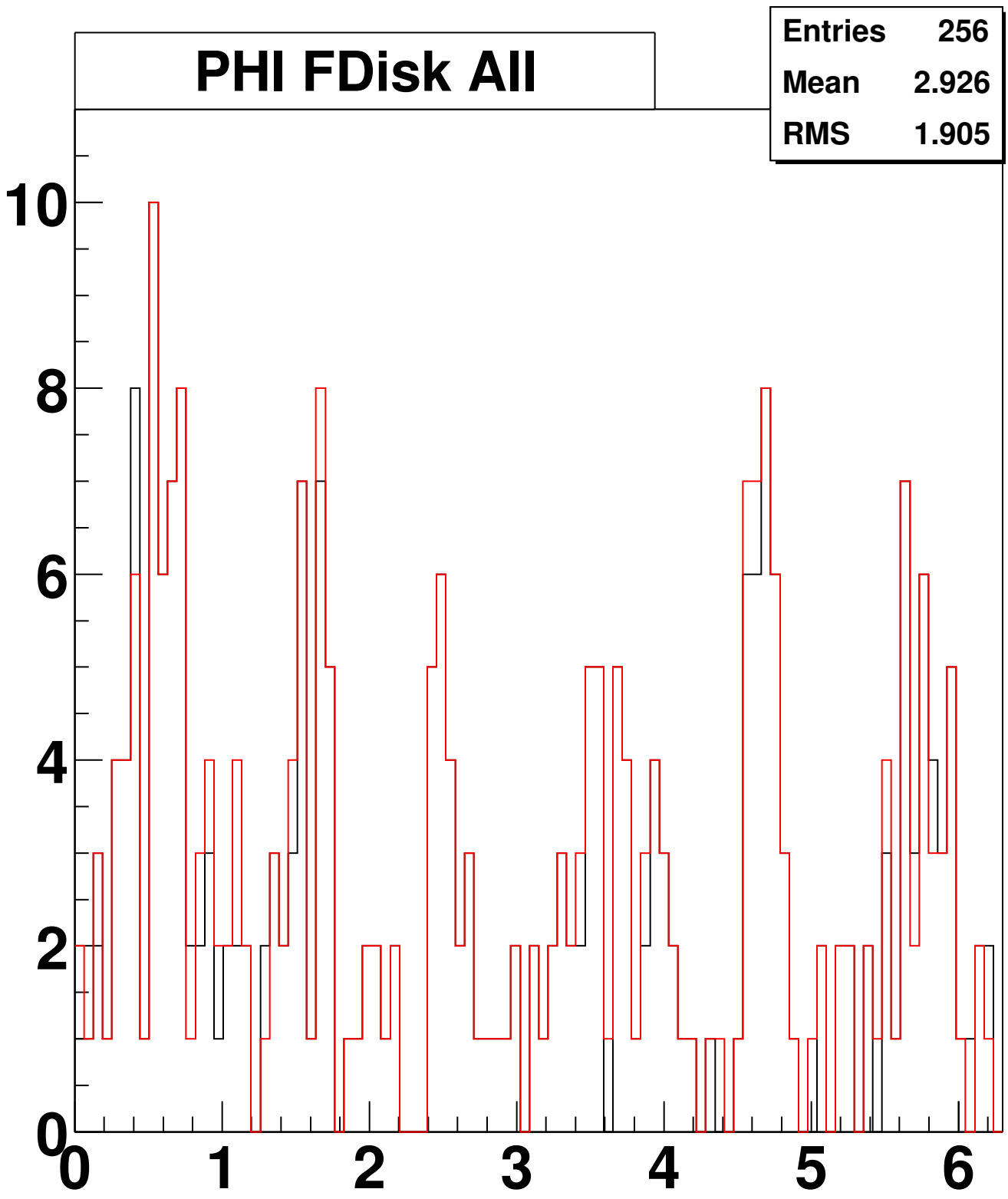
SmtClusters (ClustrBar6)

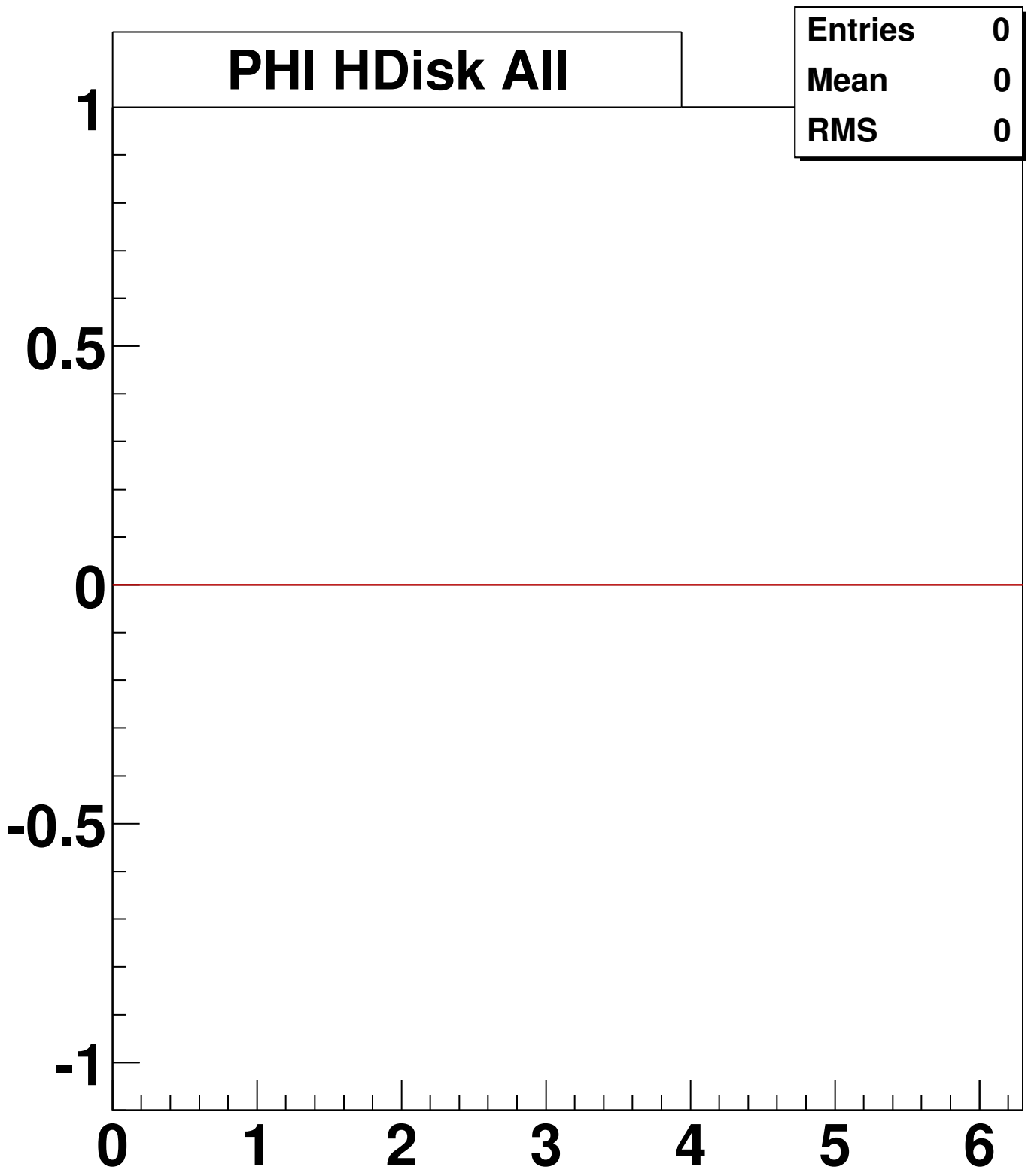


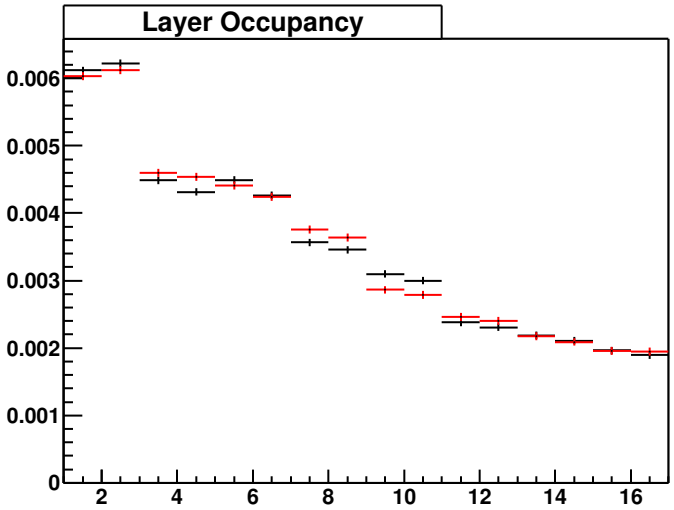
SmtClusters (FDiskClusters)

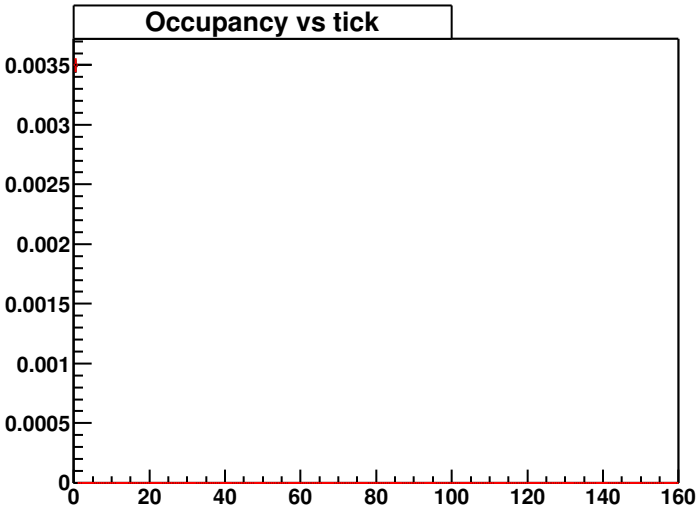

PHI HDisk1
Entries 2530
Mean 3.238
RMS 1.883
PHI HDisk2
Entries 2939
Mean 3.034
RMS 1.738
PHI HDisk3
Entries 3116
Mean 3.099
RMS 1.793
PHI HDisk4
Entries 2761
Mean 3.337
RMS 1.932
SmtClusters (HDiskClusters)

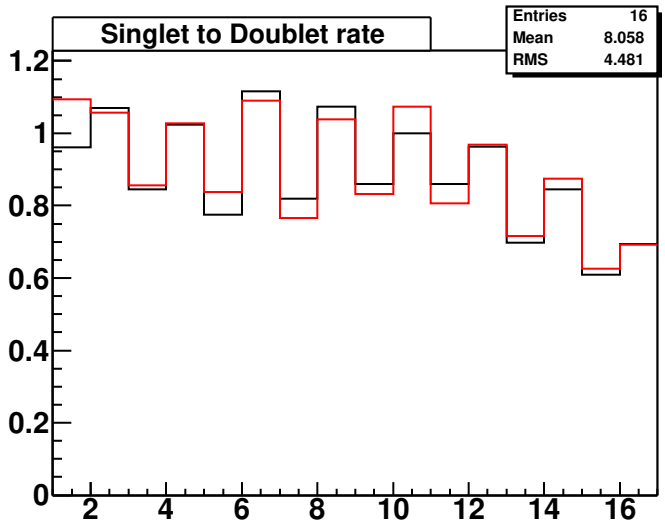

PHI
Entries 1366
Mean 3.096
RMS 1.809
25
20
15
10
5
0
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)

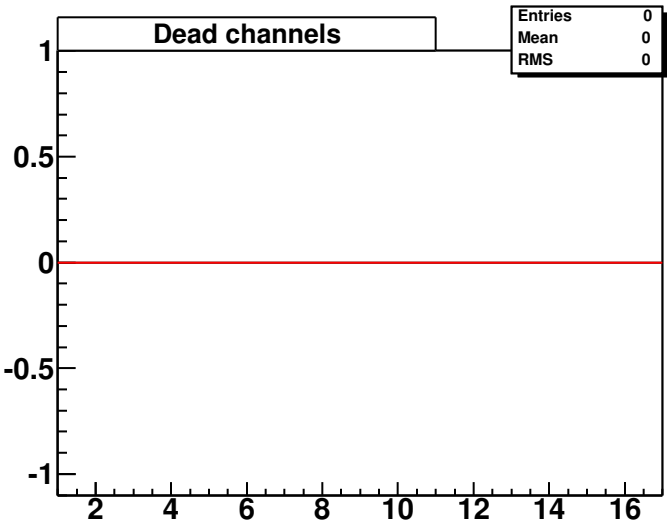

PHI FDisk All
Entries 256
Mean 2.926
RMS 1.905
10
8
6
4
2
0
0
1
2
3
4
5
6
SmtClusters (allFDiskTClusters)

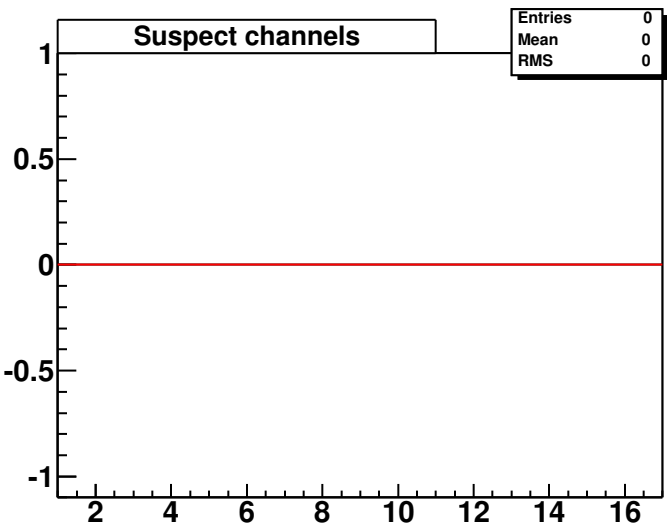

PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allHDiskTClusters)

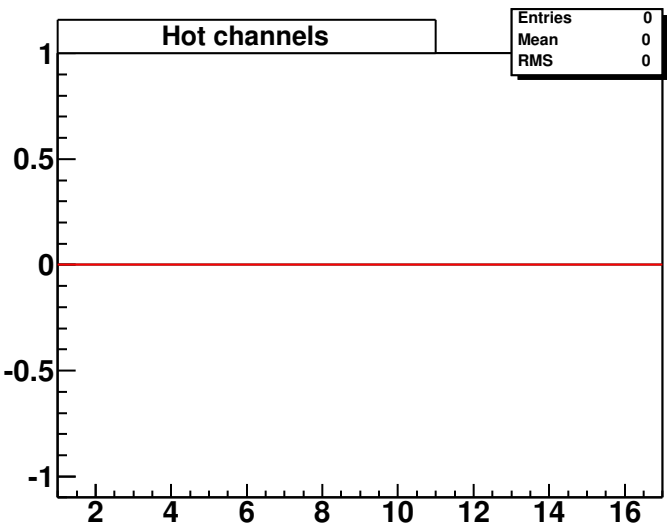




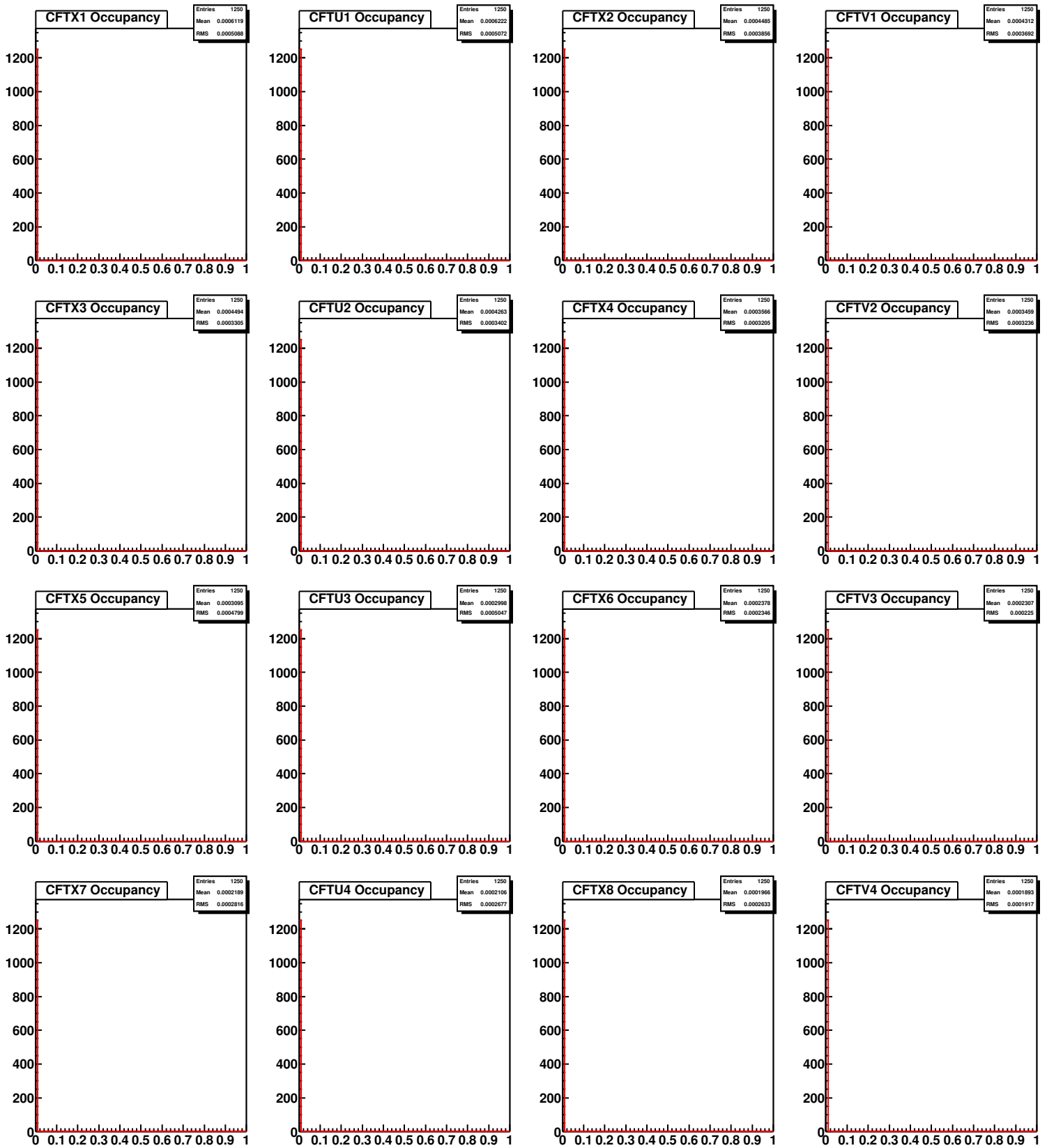




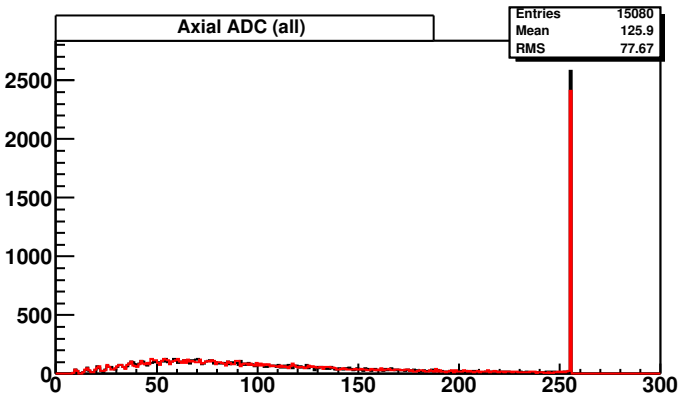


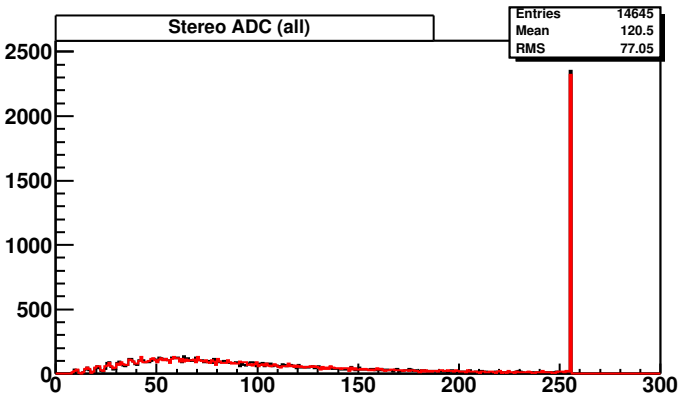


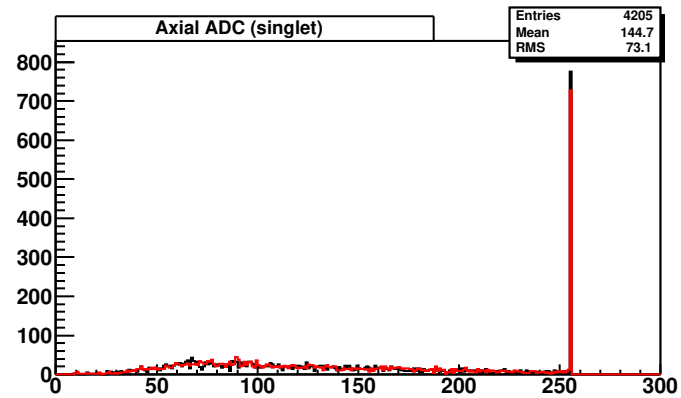
CFT Summary (All Clusters)

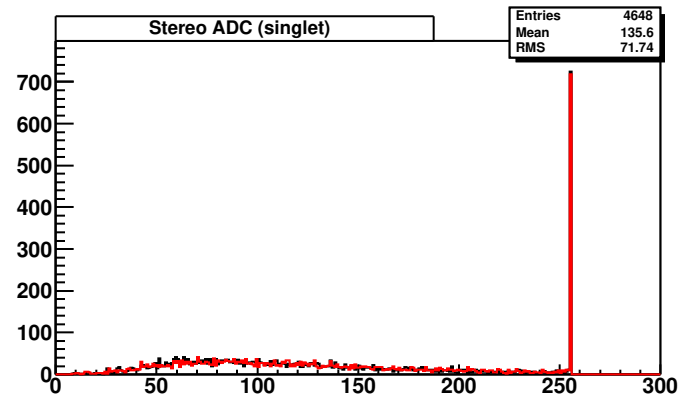


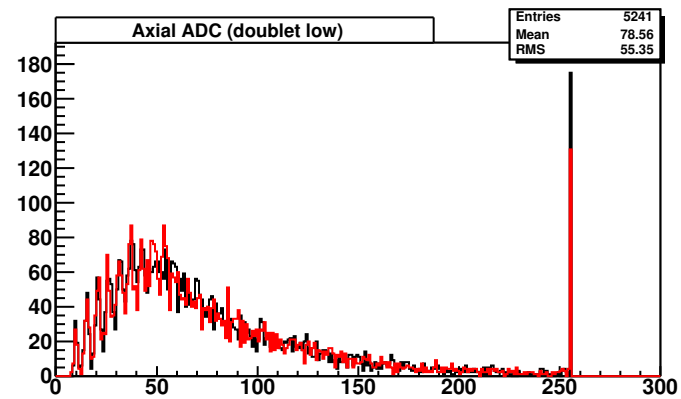
Cft Occupancy (All Clusters)

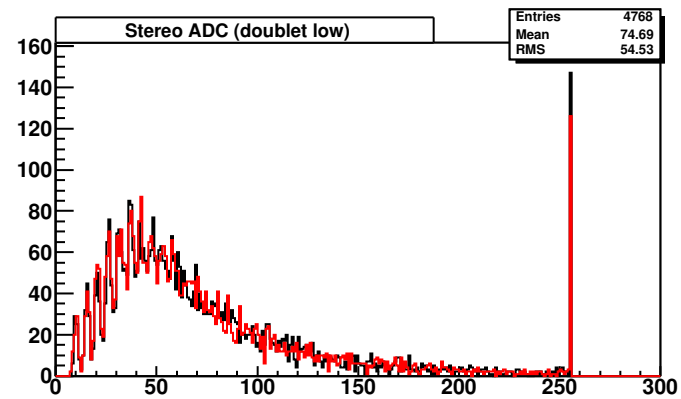


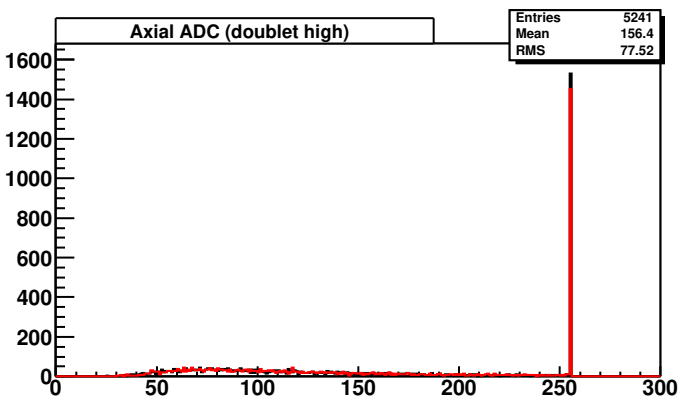


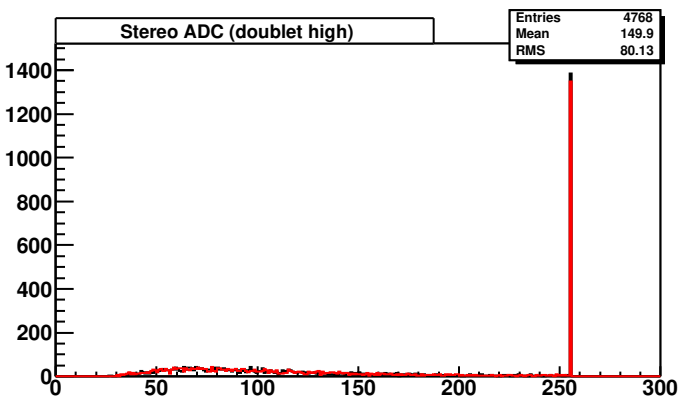




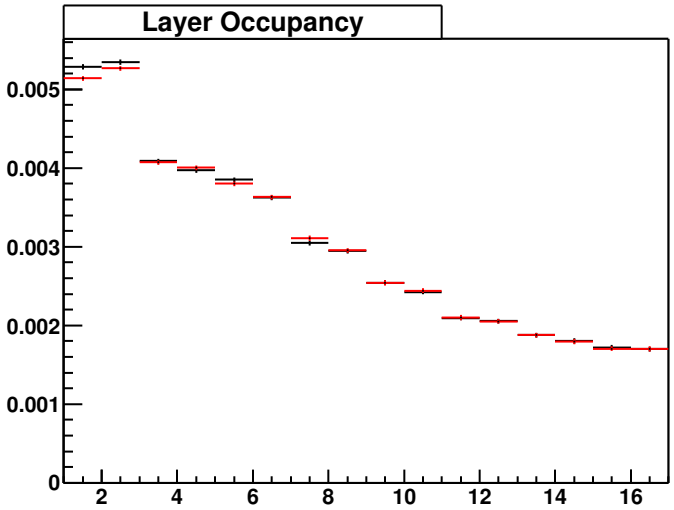


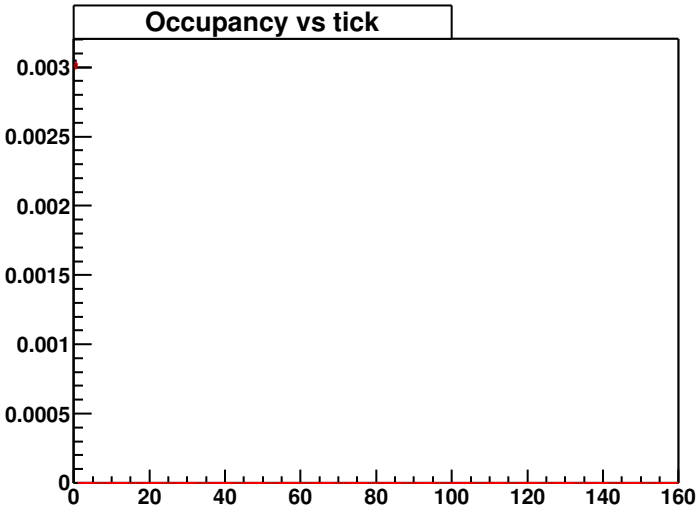


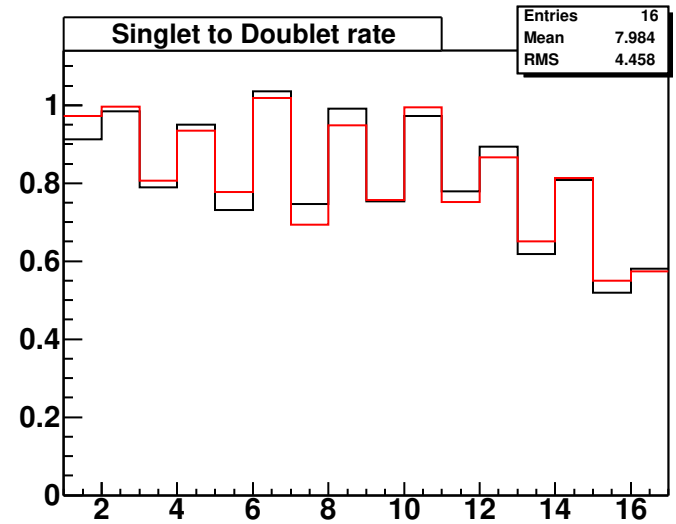


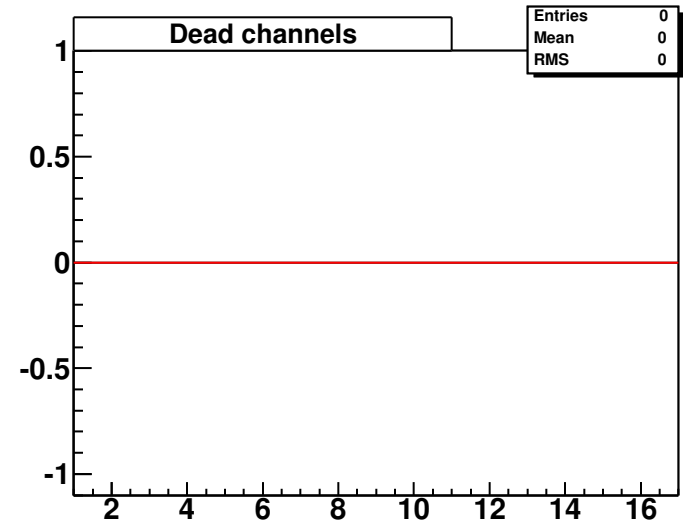


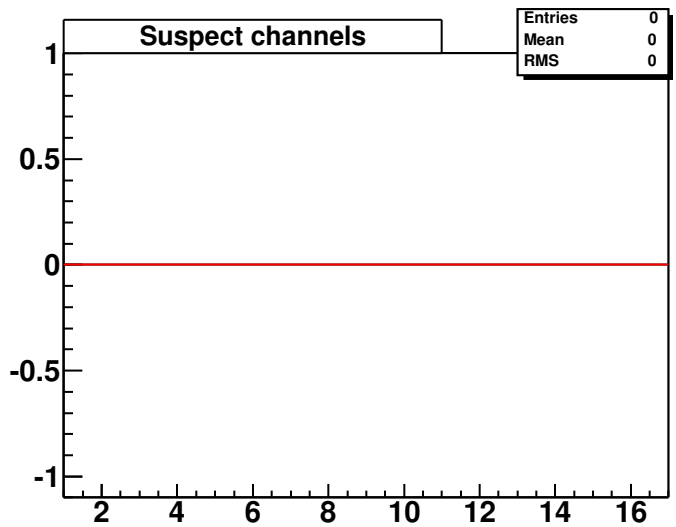
CFT ADC Summary (All Clusters)

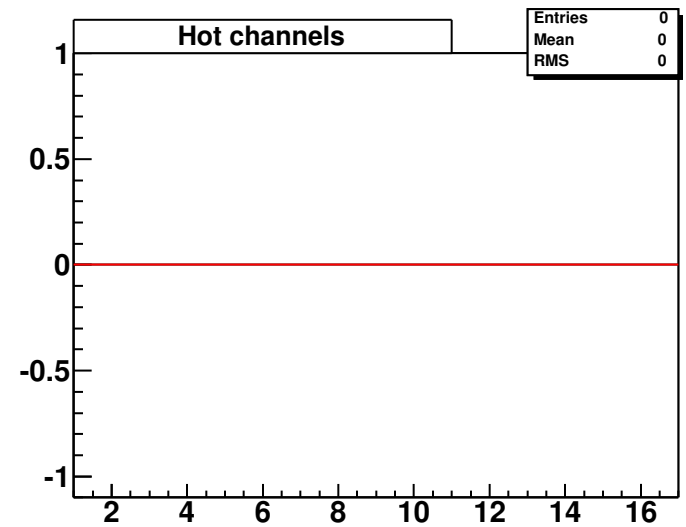




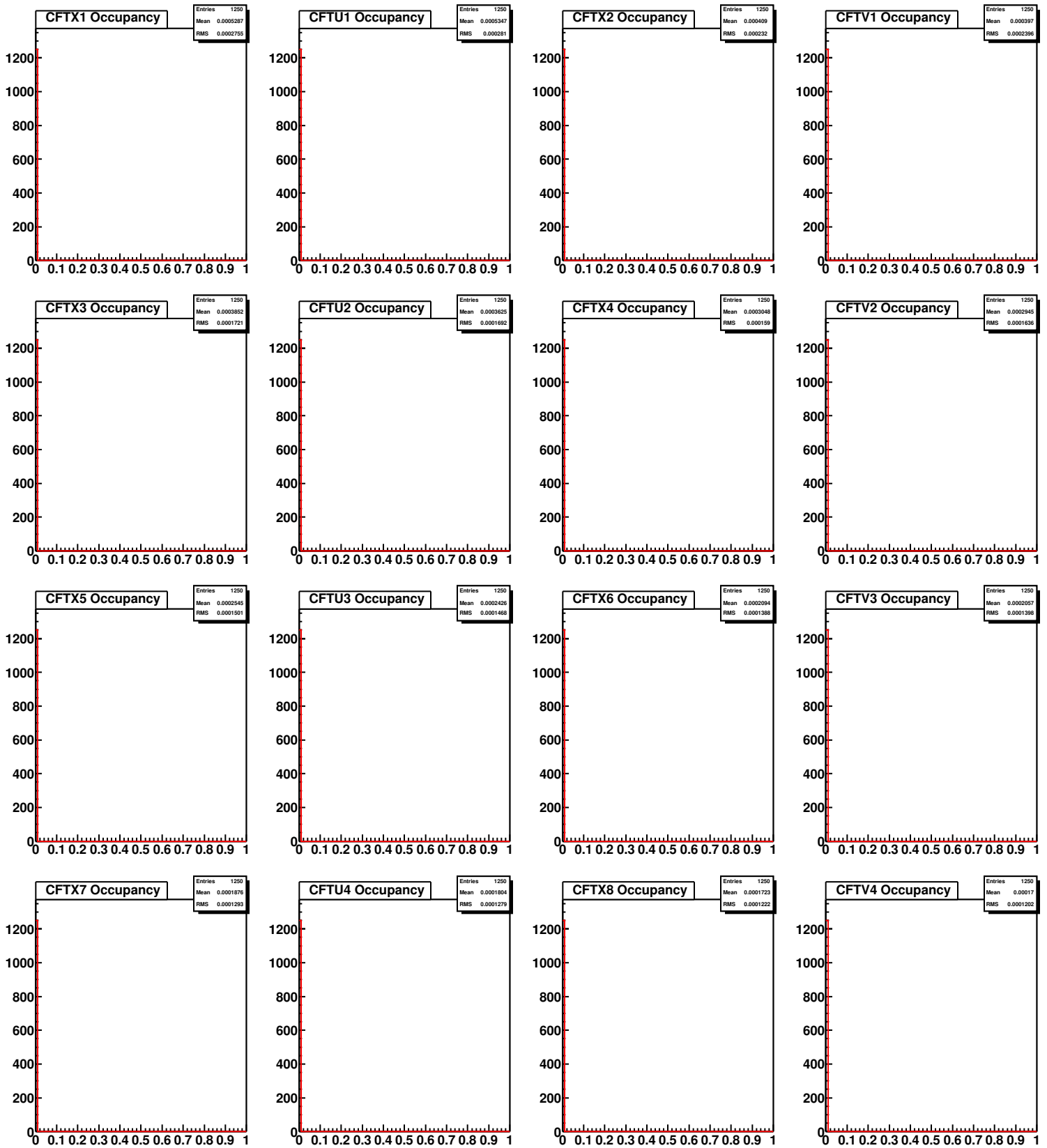




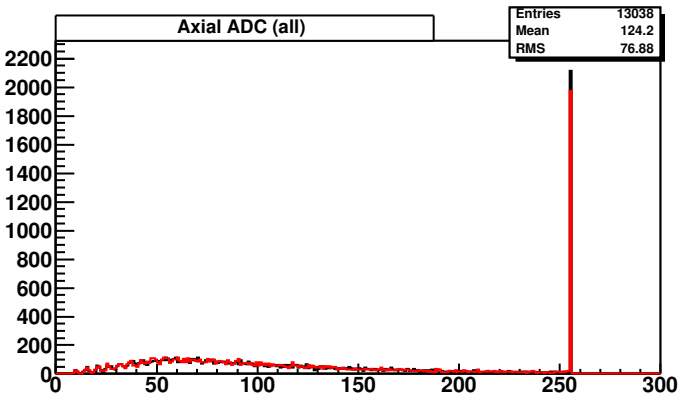


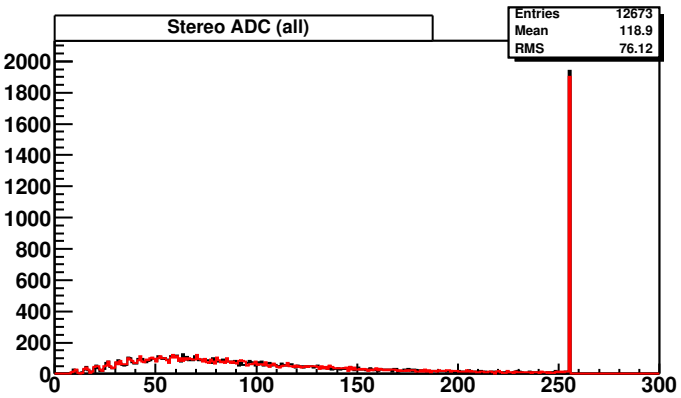


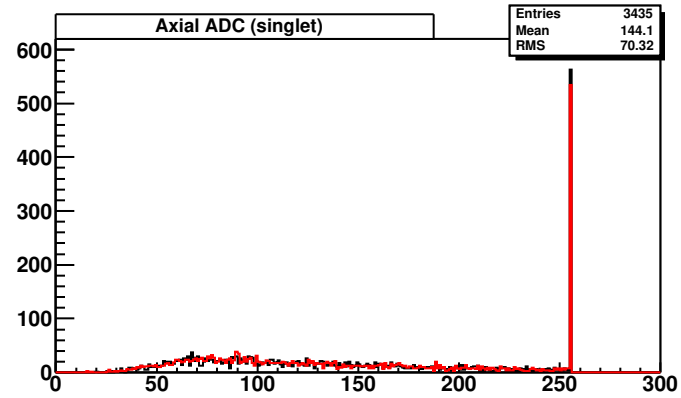
CFT Summary (Clusters on tracks)

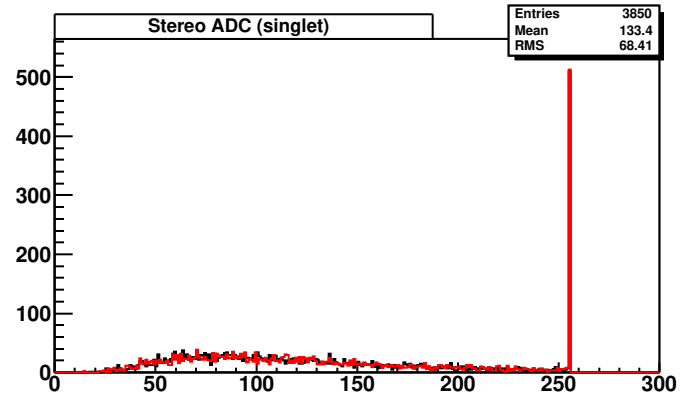


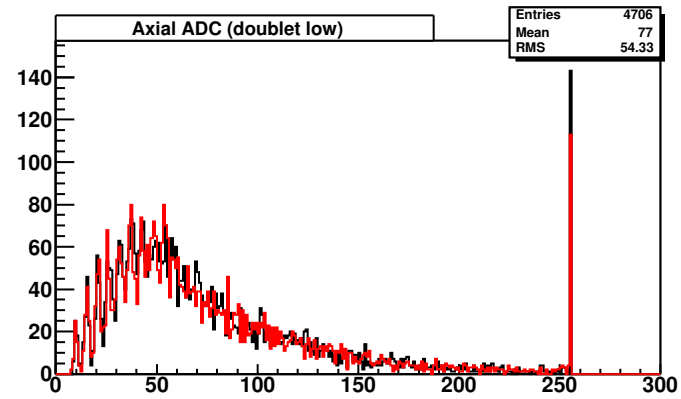
Cft Occupancy (Clusters on tracks)

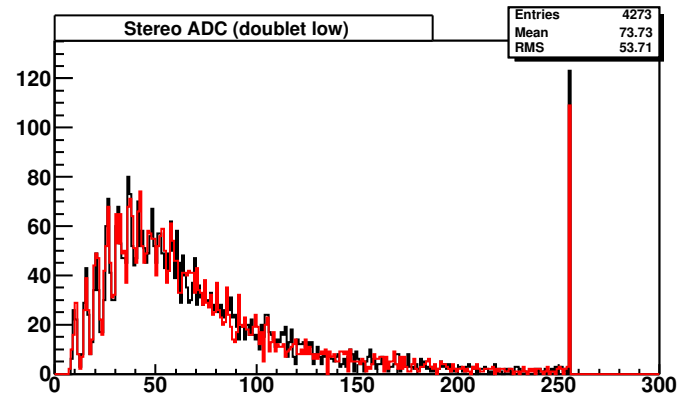


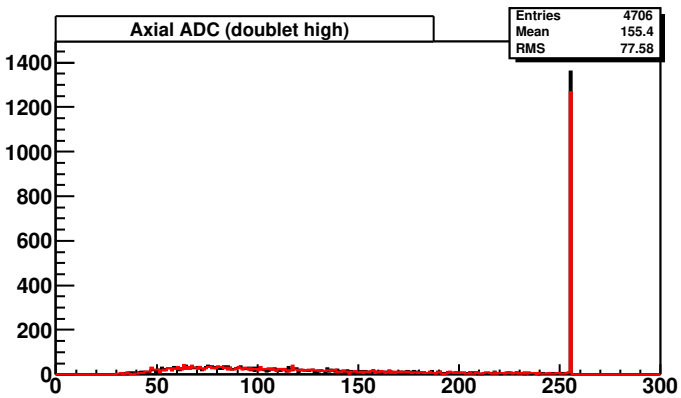


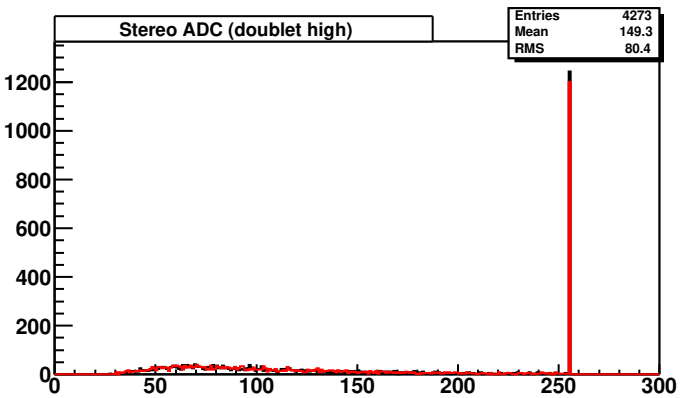




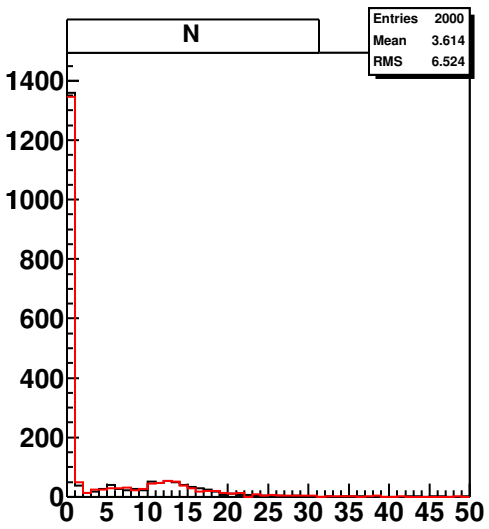


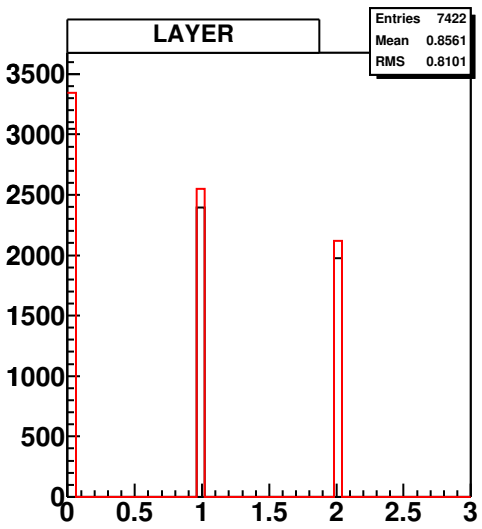


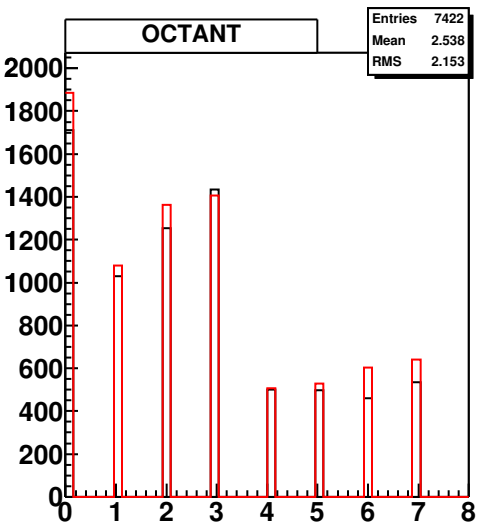


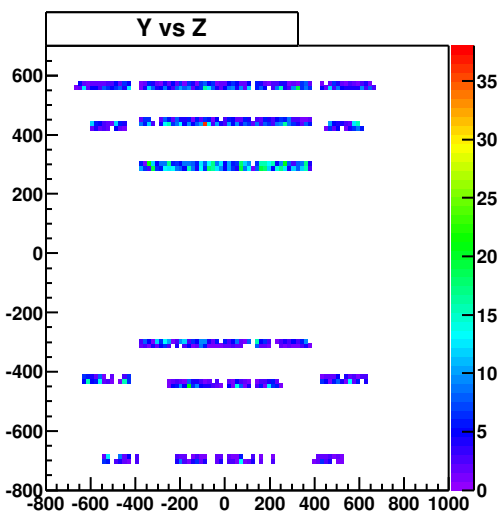


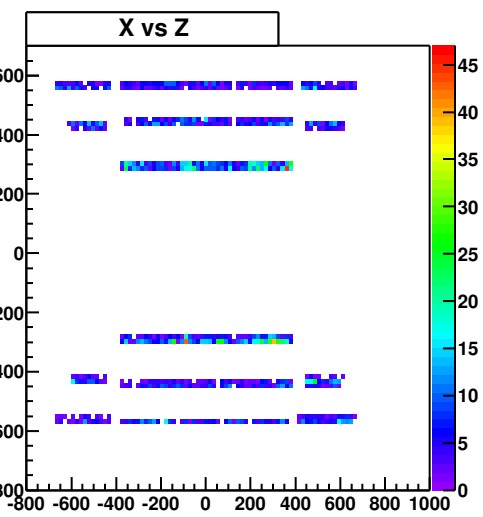
CFT ADC Summary (Clusters on tracks)

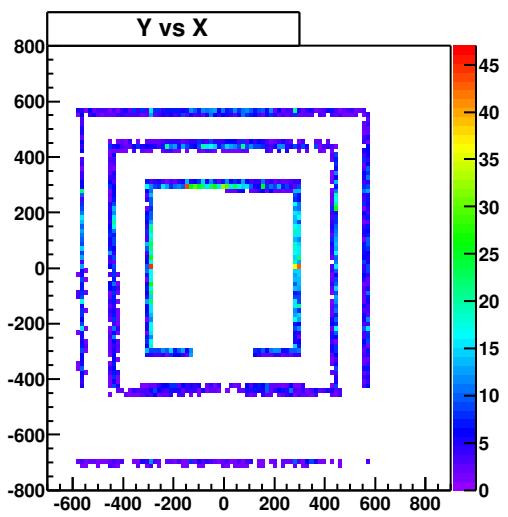

N
Entries 2000
Mean 3.614
RMS 6.524

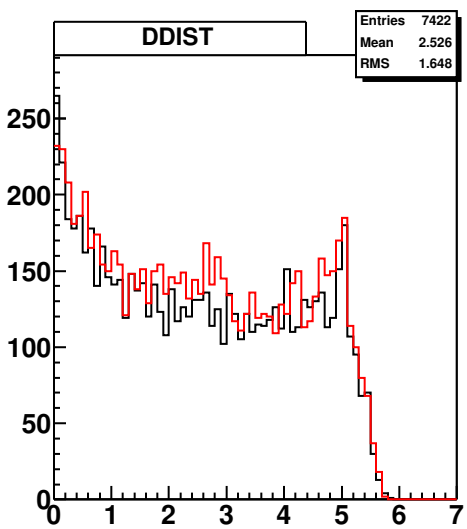

LAYER
Entries 7422
Mean 0.8561
RMS 0.8101

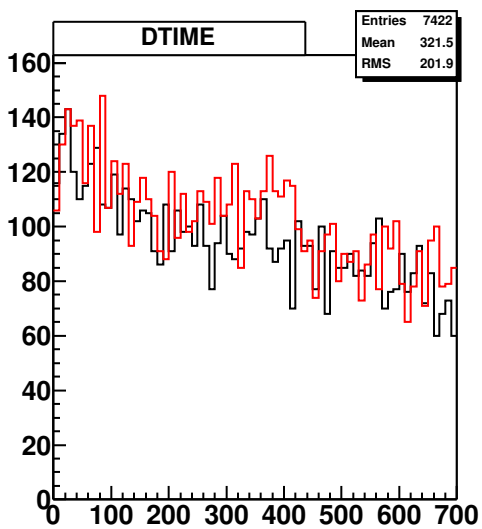

OCTANT
Entries 7422
Mean 2.538
RMS 2.153


Y vs Z

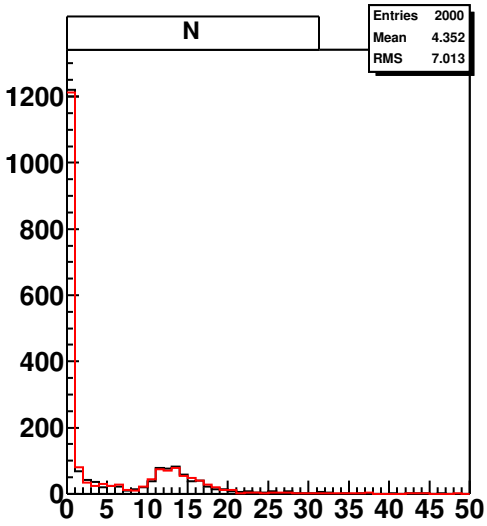

X vs Z

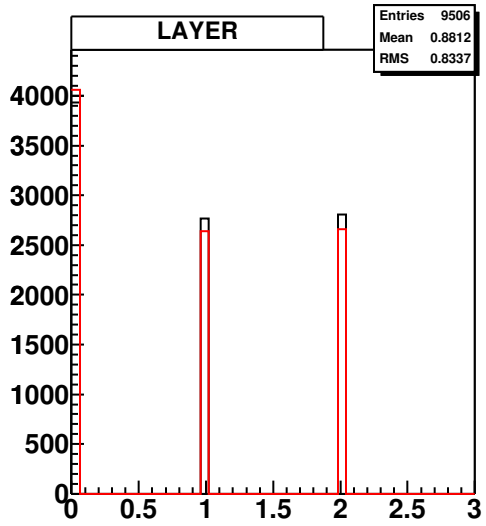

Y vs X

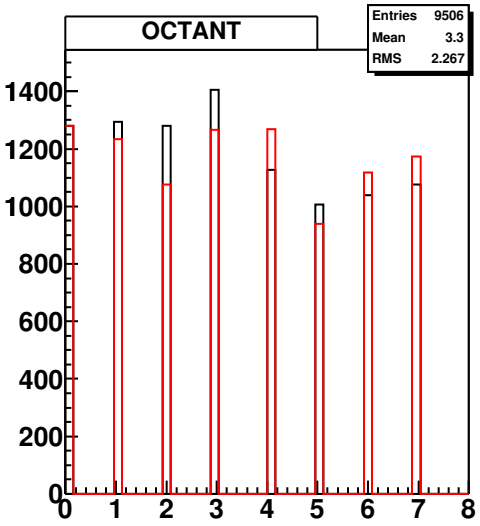

DDIST
Entries 7422
Mean 2.526
RMS 1.648

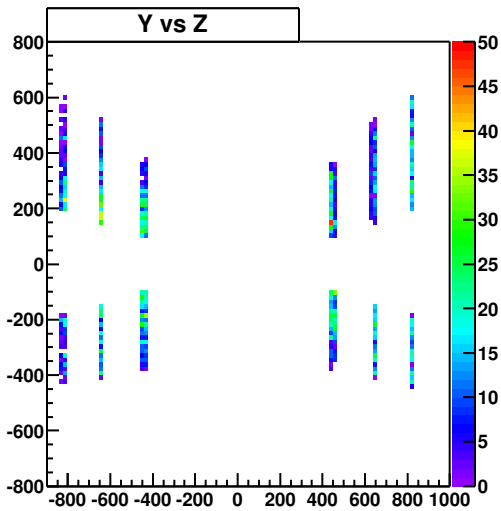

DTIME
Entries 7422
Mean 321.5
RMS 201.9

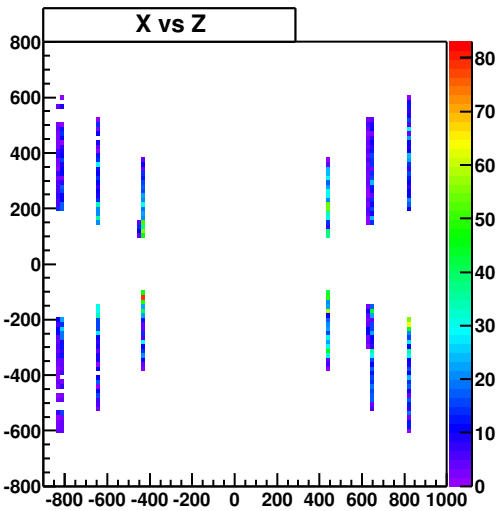
MuonPDT (All)

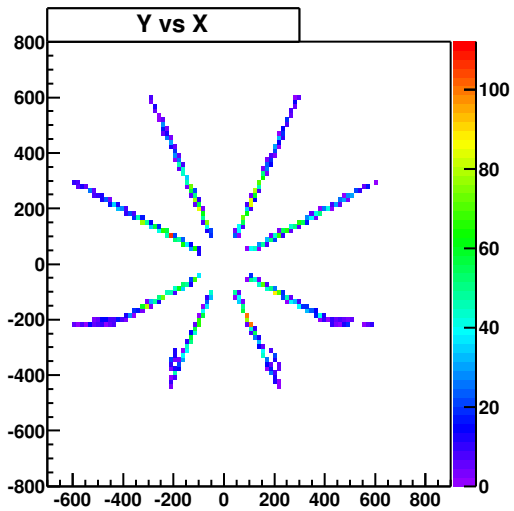

N
Entries 2000
Mean 4.352
RMS 7.013

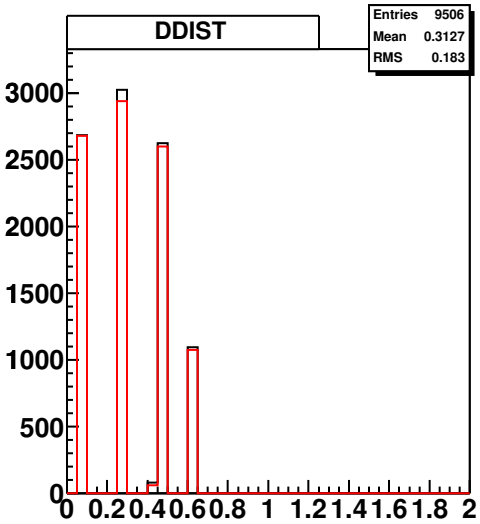

LAYER
Entries 9506
Mean 0.8812
RMS 0.8337

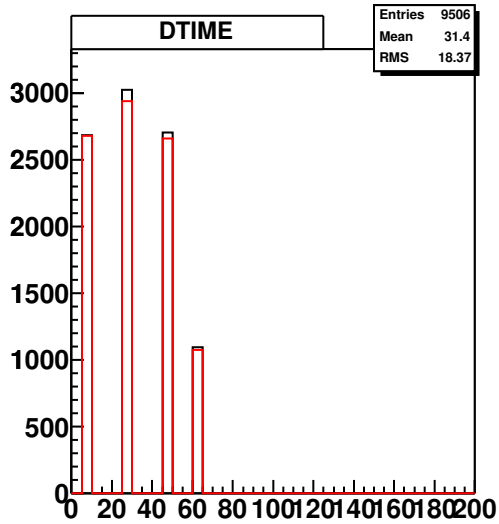

OCTANT
Entries 9506
Mean 3.3
RMS 2.267


Y vs Z

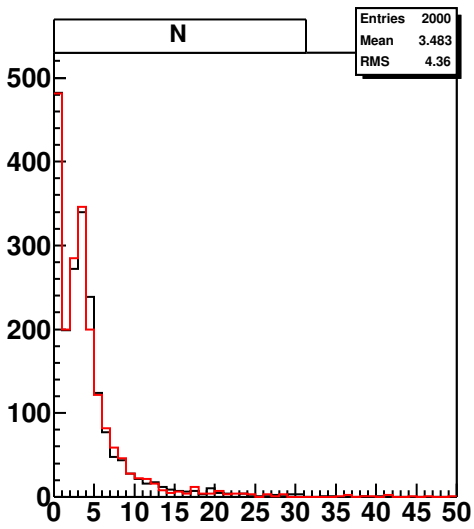

X vs Z

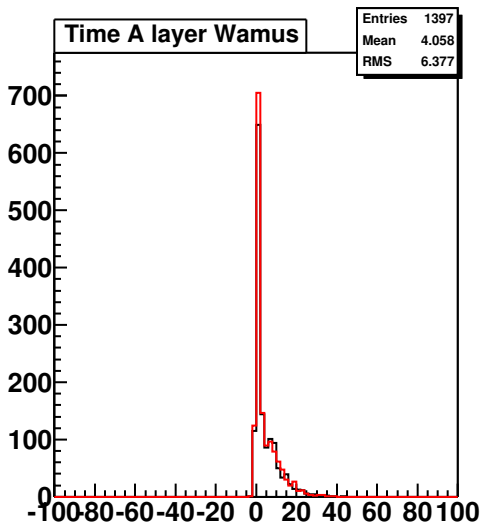

Y vs X

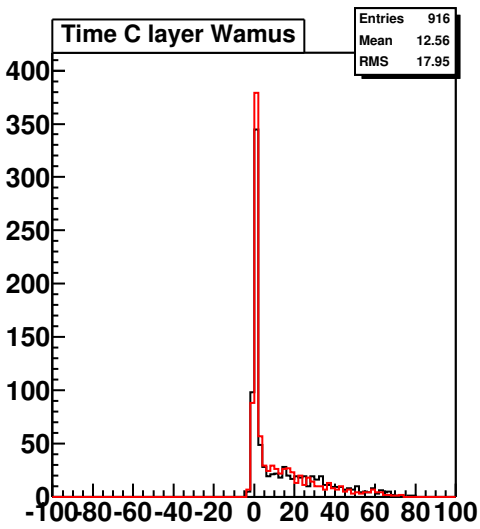

DDIST
Entries 9506
Mean 0.3127
RMS 0.183

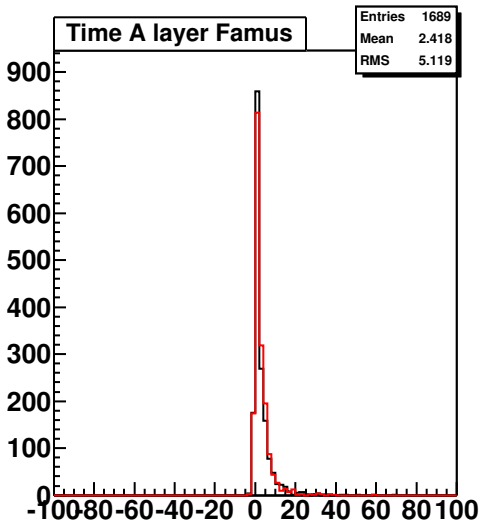

DTIME
Entries 9506
Mean 31.4
RMS 18.37

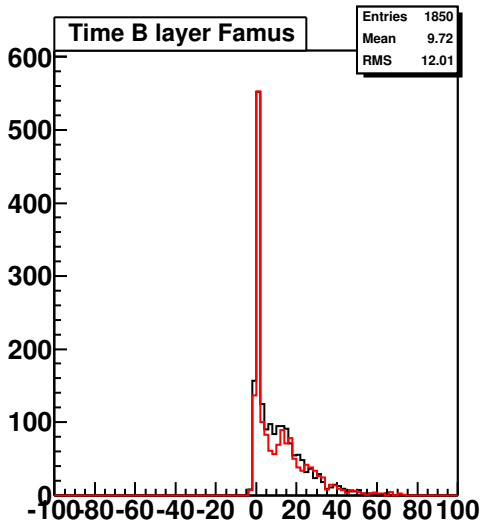
MuonMDT (All)

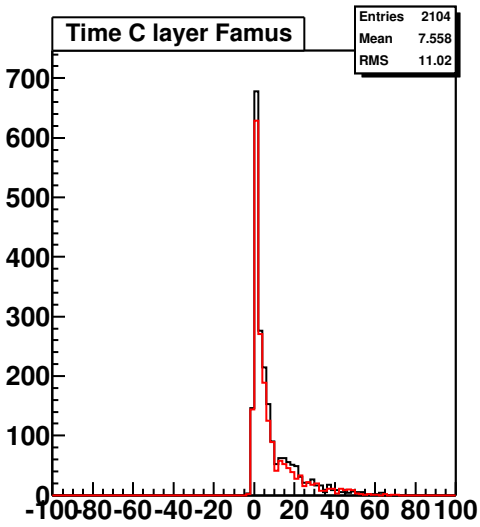

N
Entries 2000
Mean 3.483
RMS 4.36

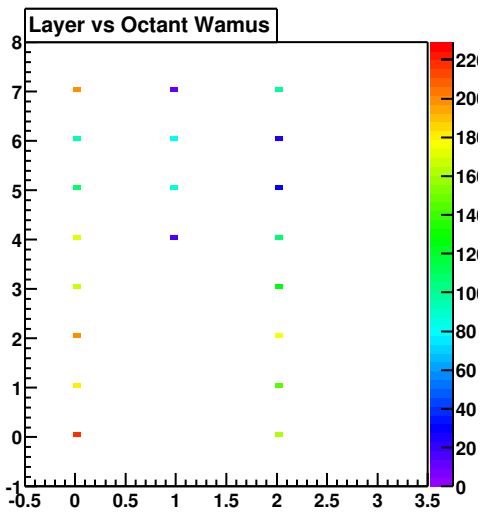

Time A layer Wamus
Entries 1397
Mean 4.058
RMS 6.377

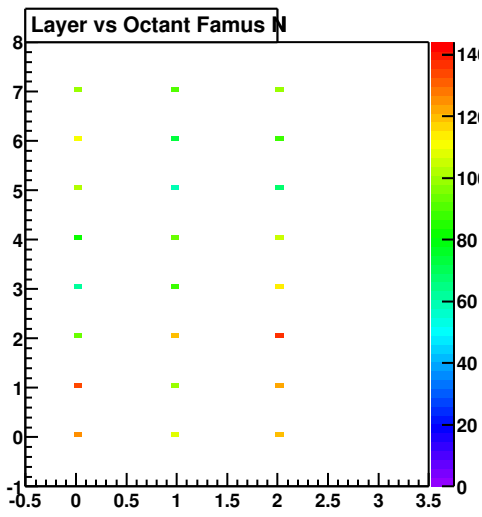

Time C layer Wamus
Entries 916
Mean 12.56
RMS 17.95

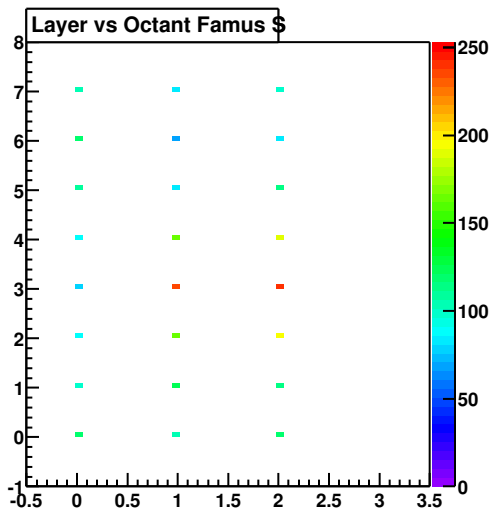

Time A layer Famus
Entries 1689
Mean 2.418
RMS 5.119


Time B layer Famus
Entries 1850
Mean 9.72
RMS 12.01

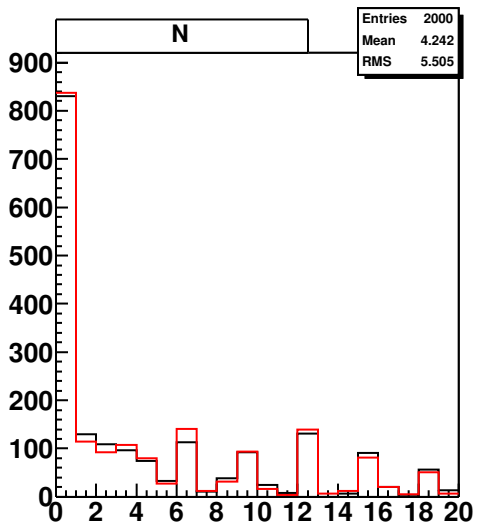

Time C layer Famus
Entries 2104
Mean 7.558
RMS 11.02

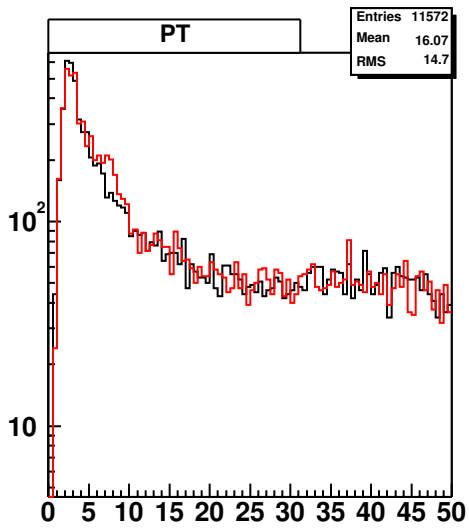

Layer vs Octant Wamus

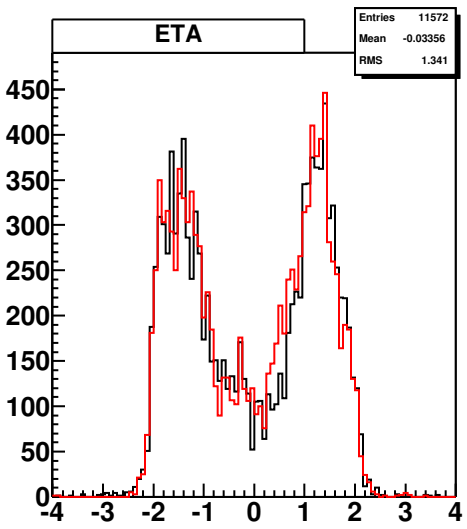

Layer vs Octant Famus N

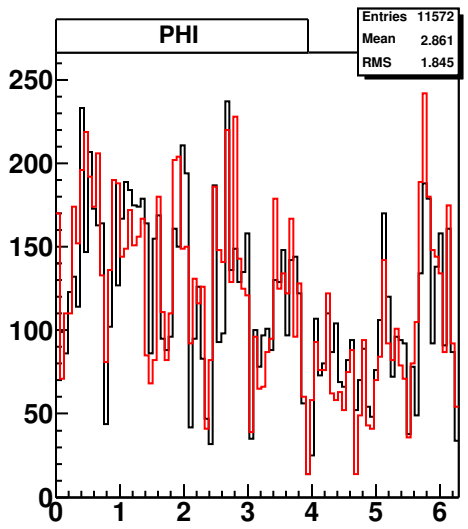

Layer vs Octant Famus $

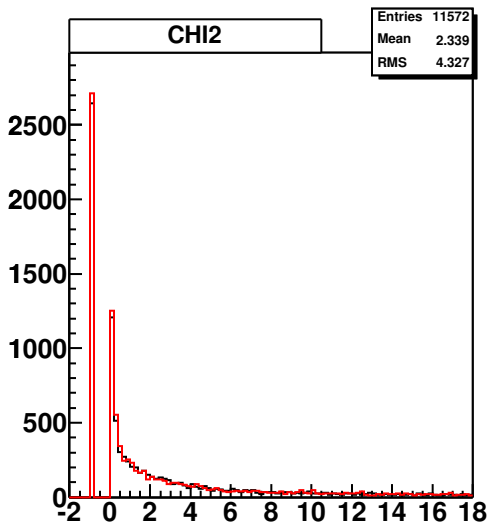
MuonMSC (All)

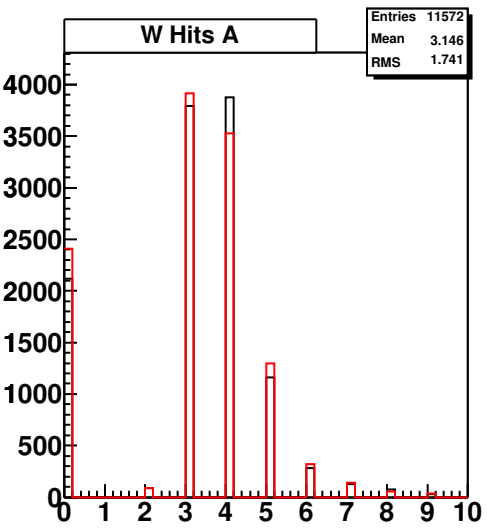


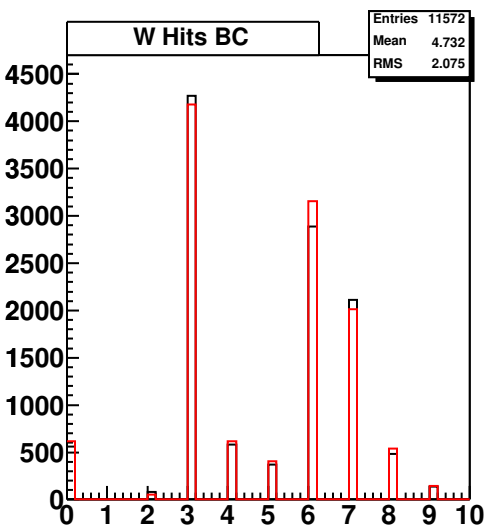


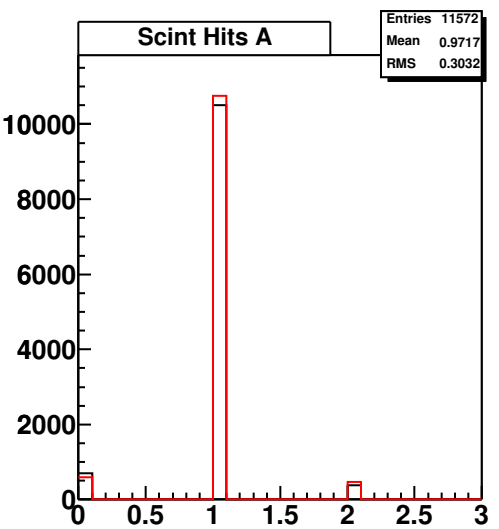


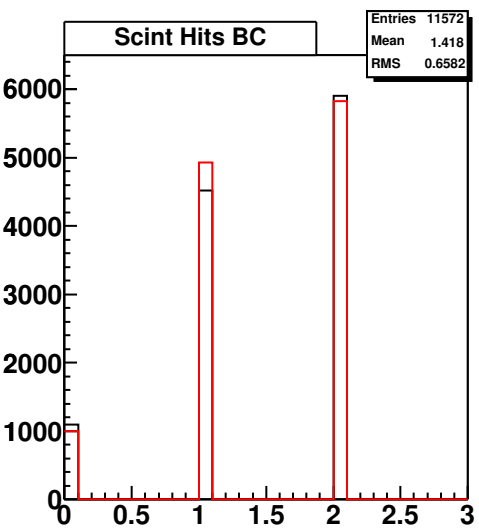




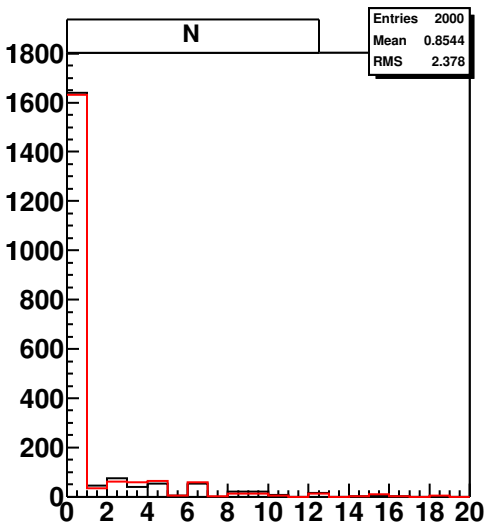


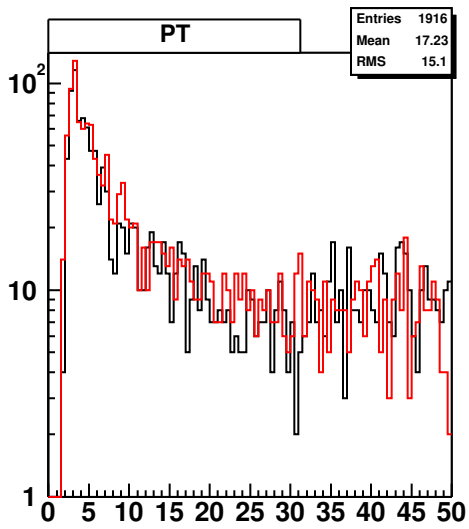


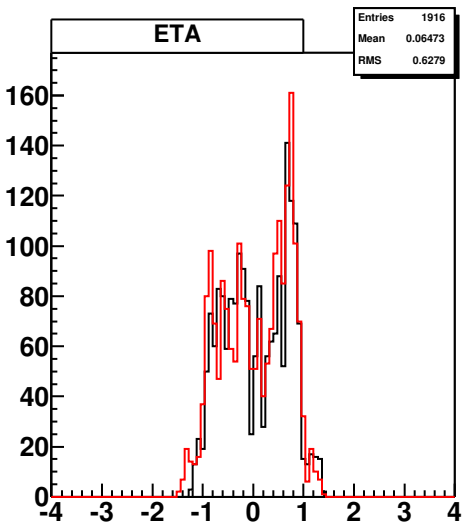


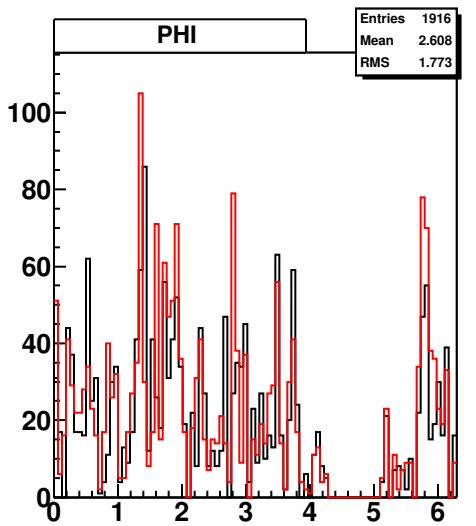


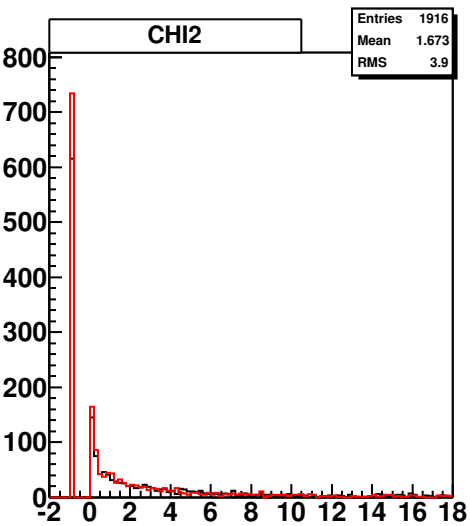
Muon Local Tracks (All)

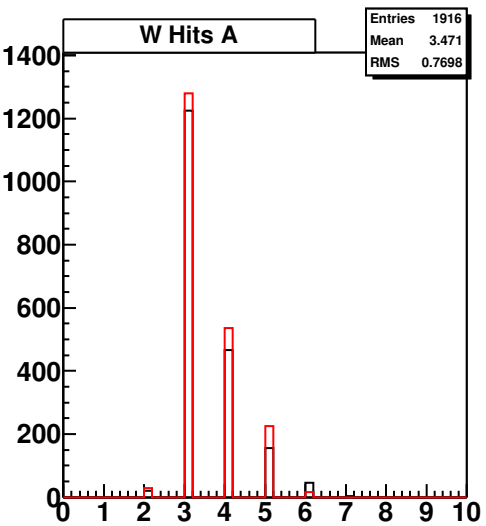


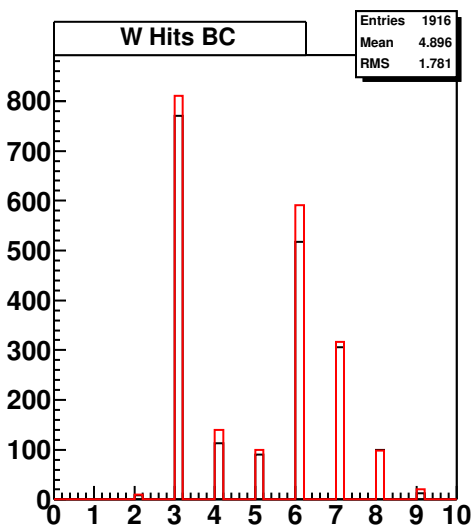


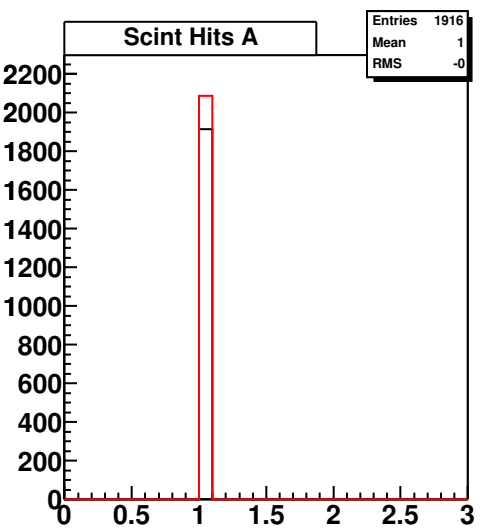


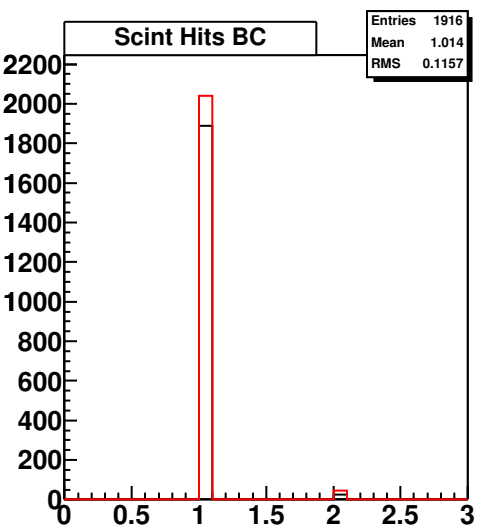




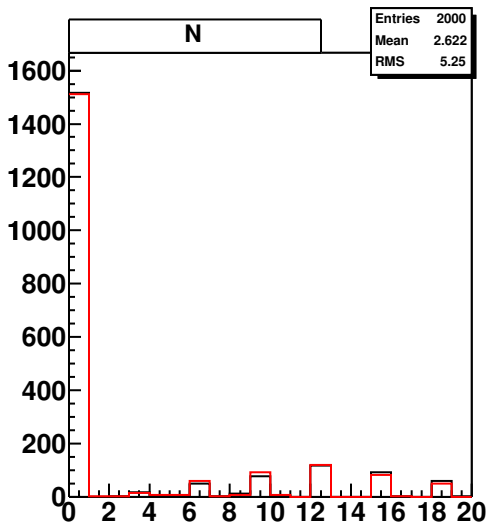


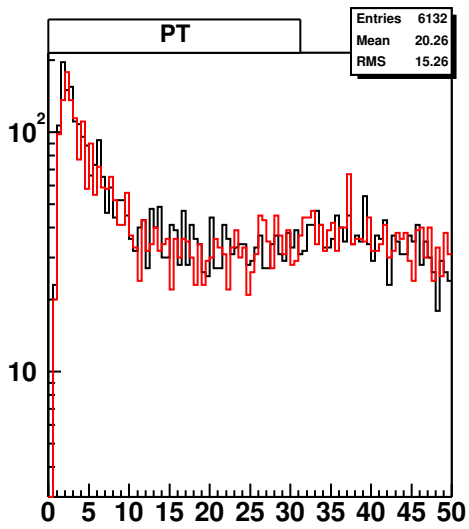


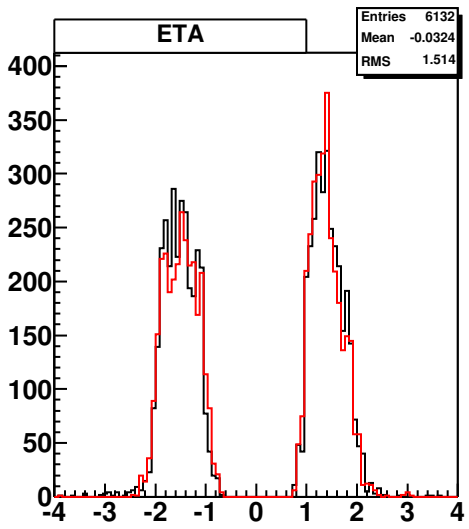


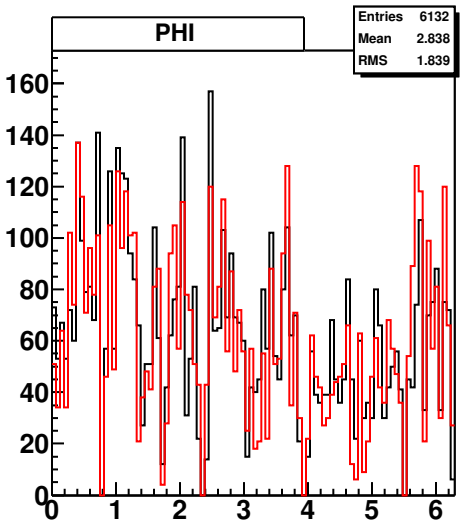


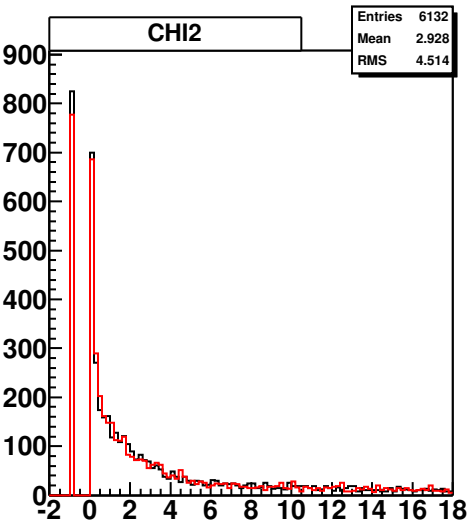
Muon Local Tracks (MediumWamus)

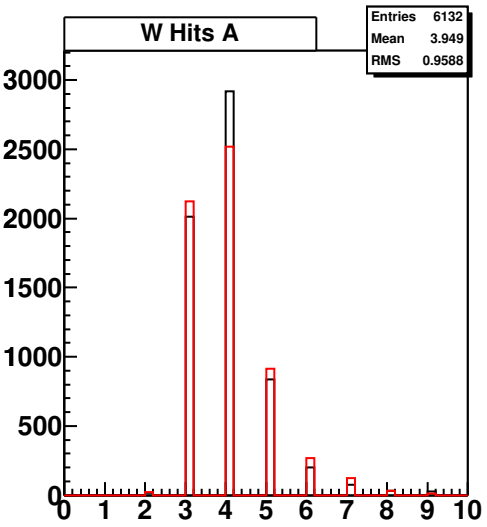


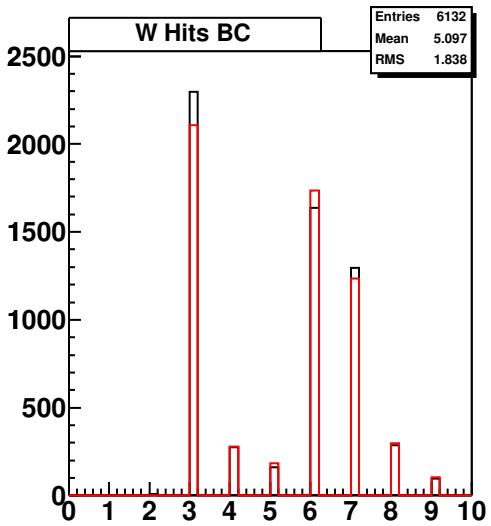


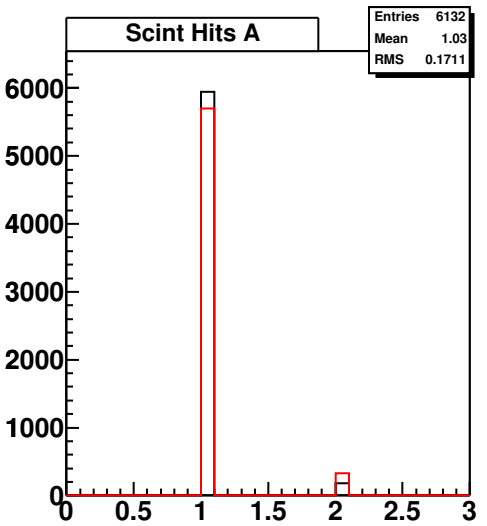


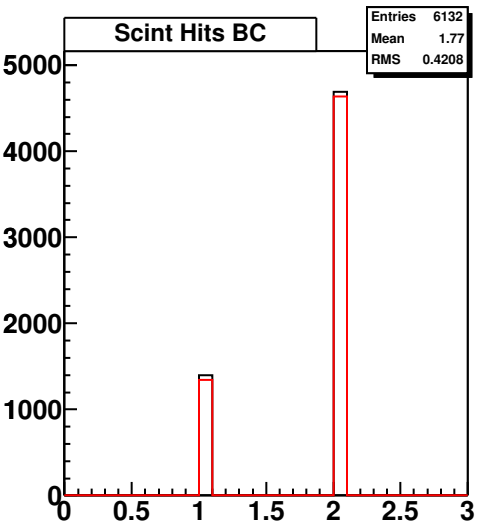




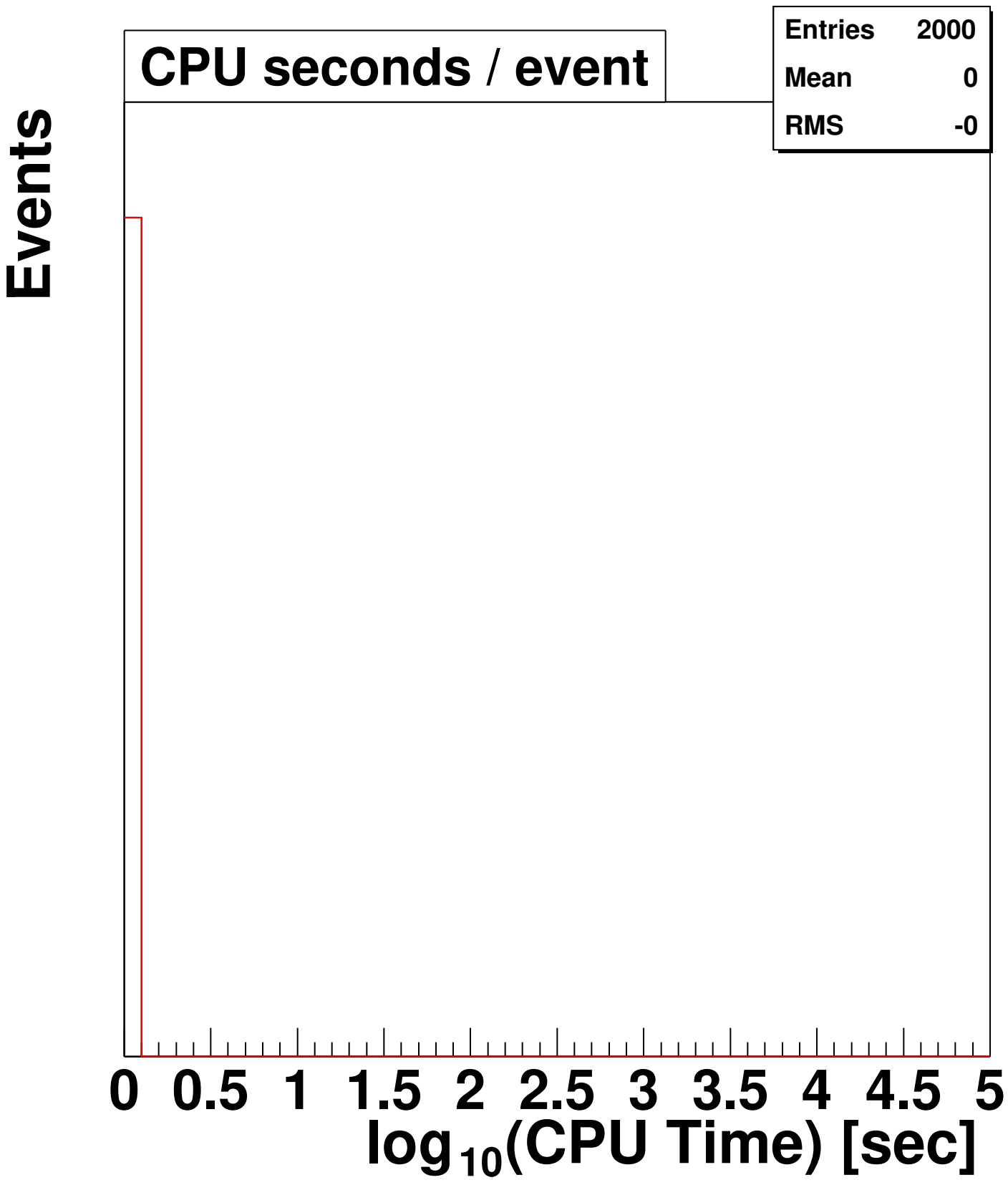








Muon Local Tracks (MediumFamus)



RECO Performance (Timing)