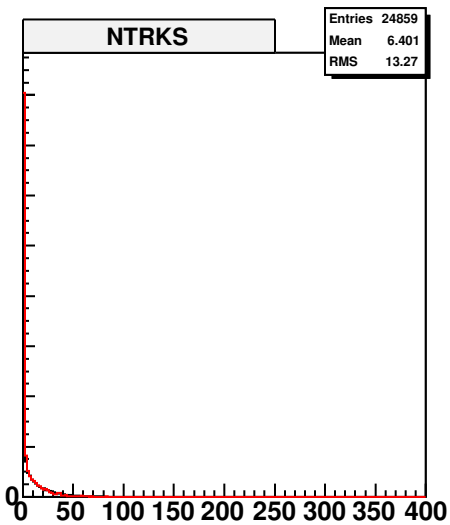
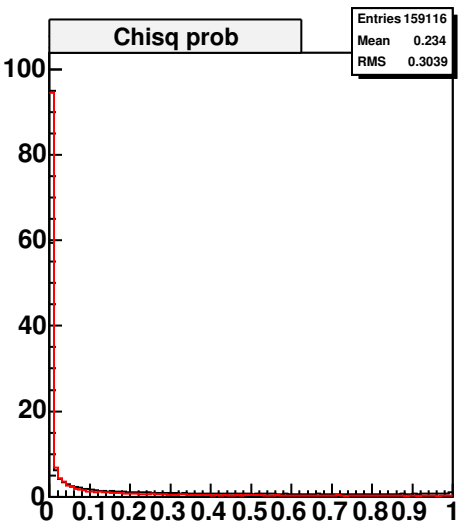
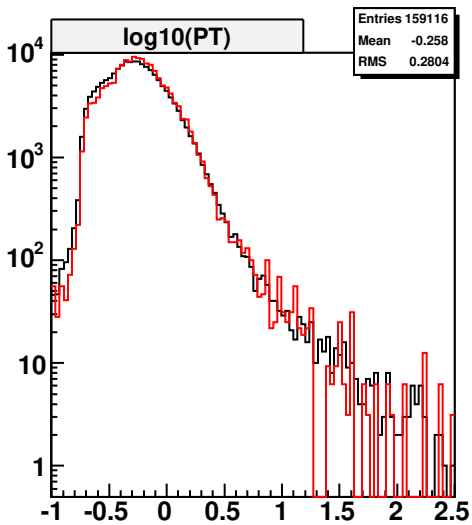
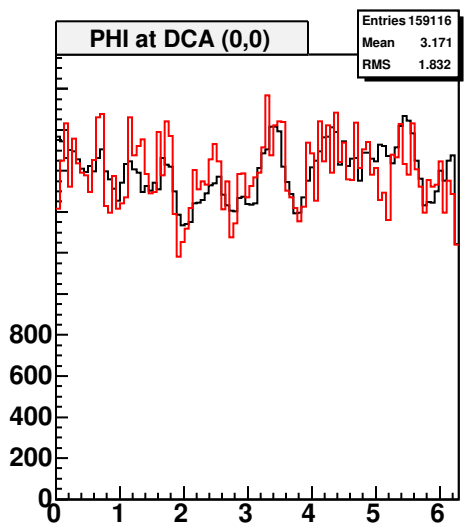
before_2.root

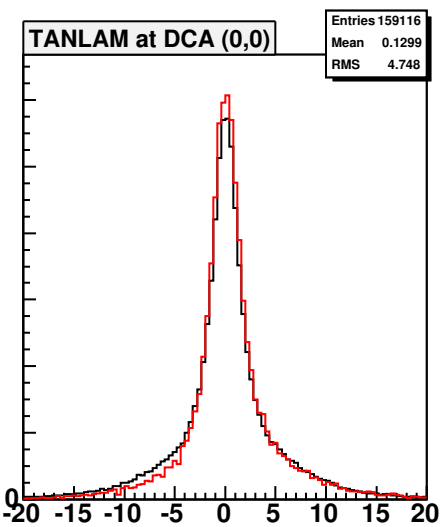
after.root

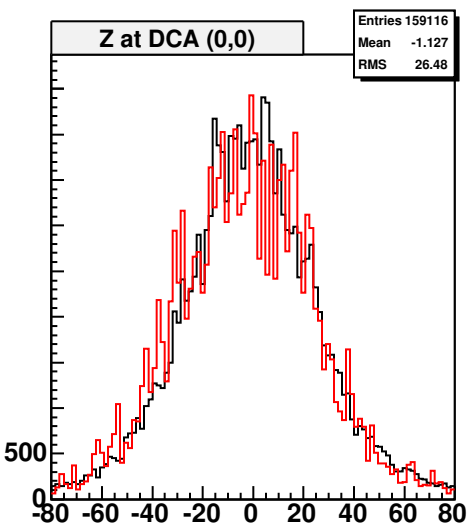

NTRKS
Entries 24859
Mean 6.401
RMS 13.27

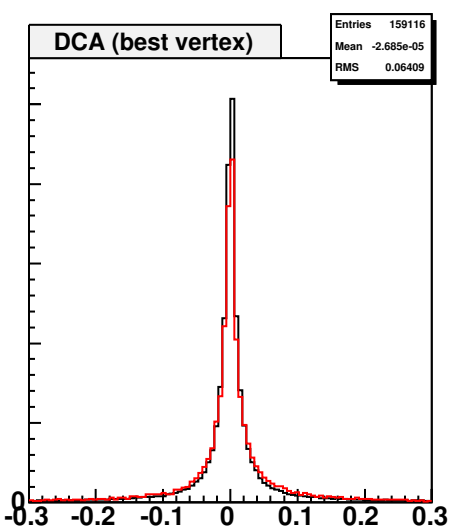

Chisq prob
Entries 159116
Mean 0.234
RMS 0.3039

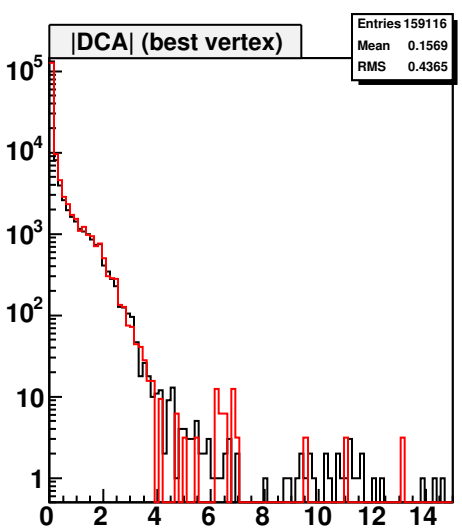

log10(PT)
Entries 159116
Mean -0.258
RMS 0.2804

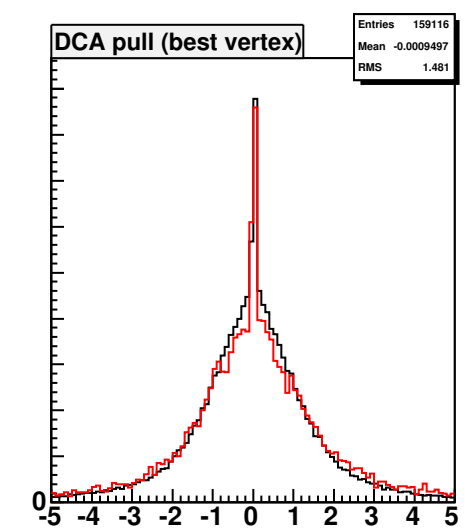

PHI at DCA (0,0)
Entries 159116
Mean 3.171
RMS 1.832


TANLAM at DCA (0,0)
Entries 159116
Mean 0.1299
RMS 4.748

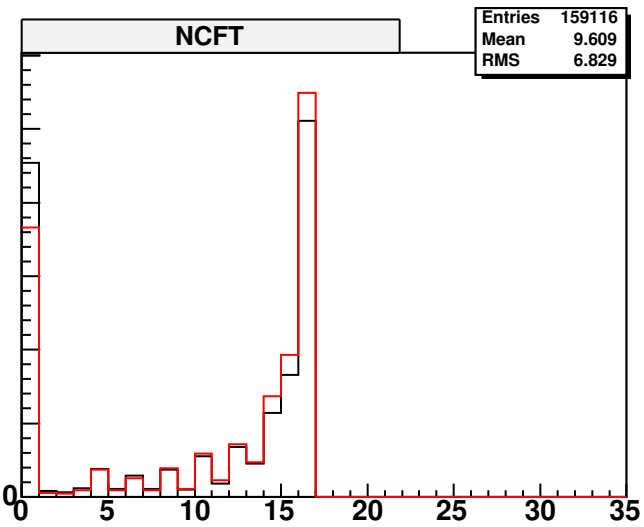

Z at DCA (0,0)
Entries 159116
Mean -1.127
RMS 26.48

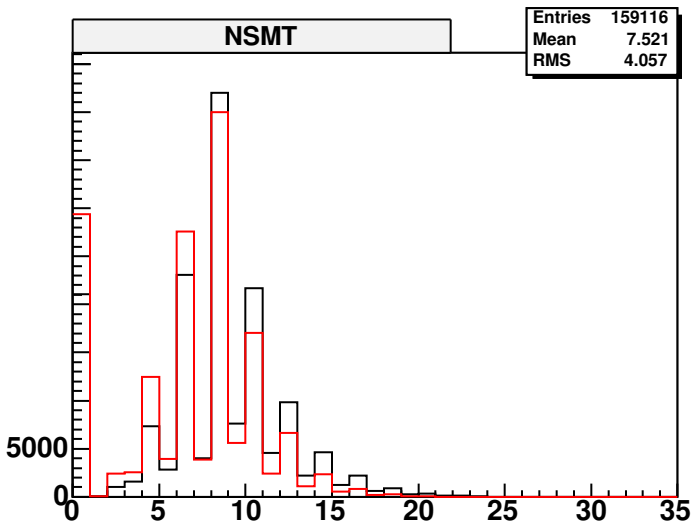

DCA (best vertex)
Entries 159116
Mean -2.685e-05
RMS 0.06409

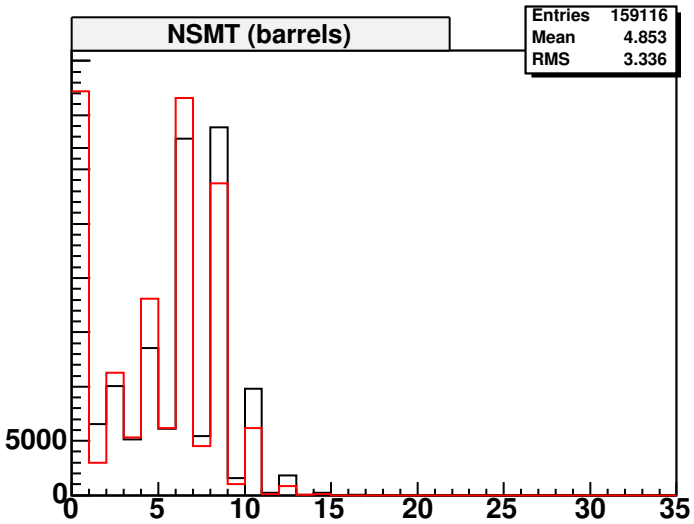

|DCA| (best vertex)
Entries 159116
Mean 0.1569
RMS 0.4365

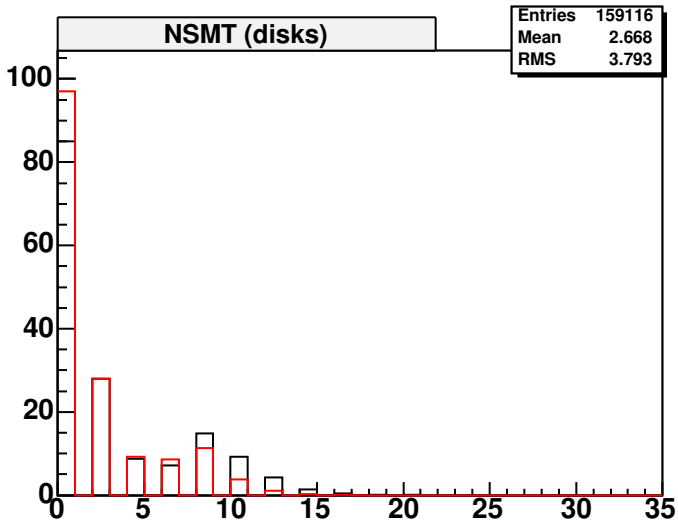

DCA pull (best vertex)
Entries 159116
Mean -0.0009497
RMS 1.481

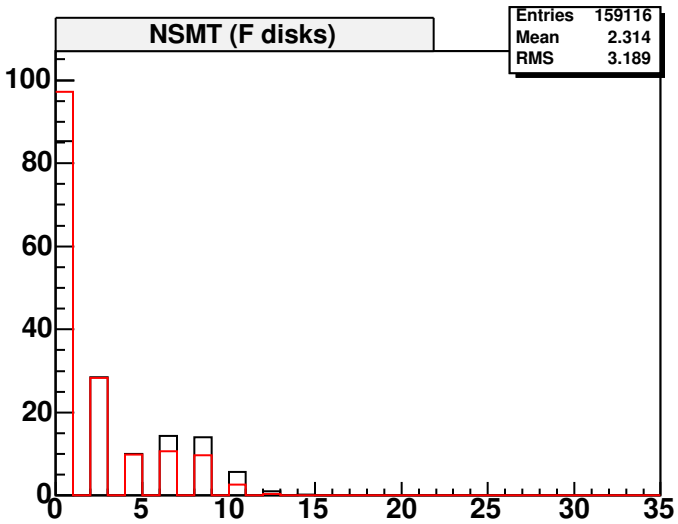
Tracks (All)

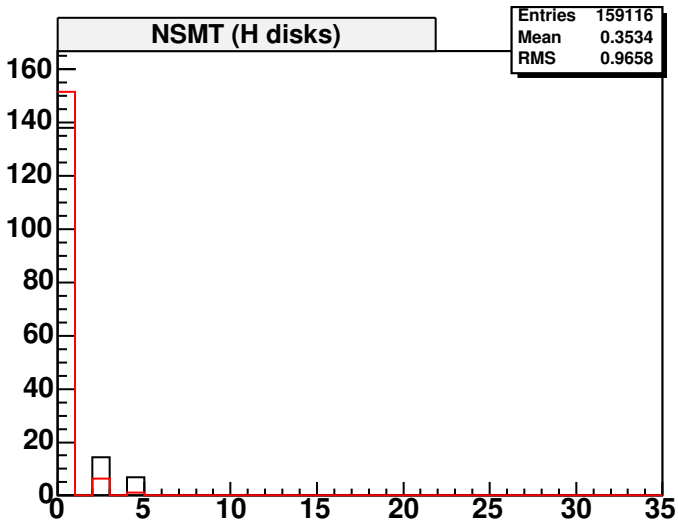




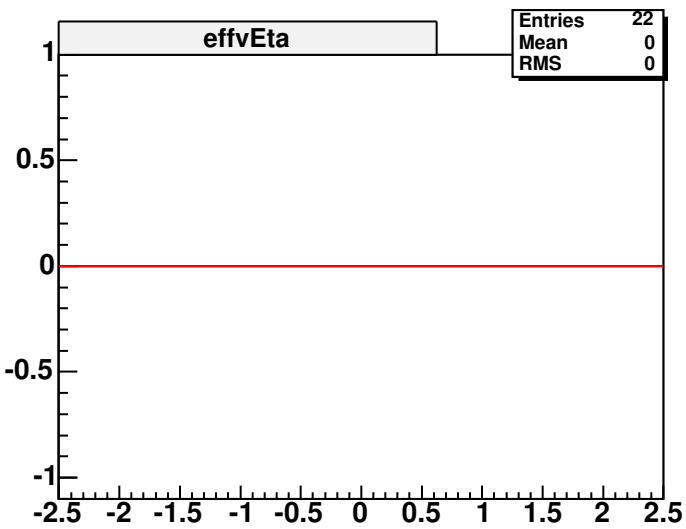


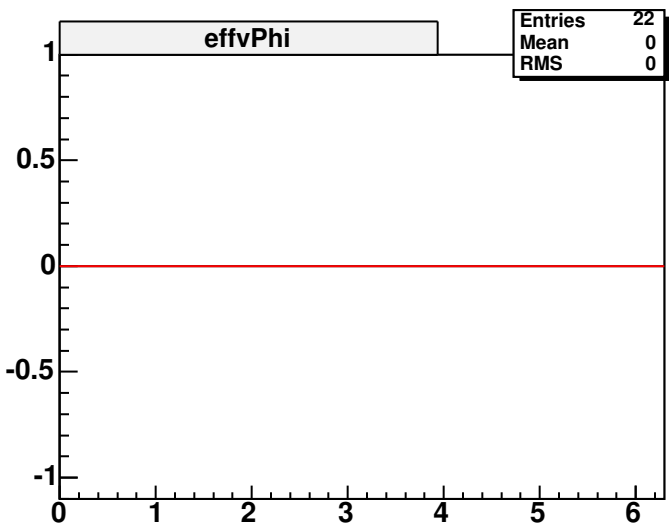


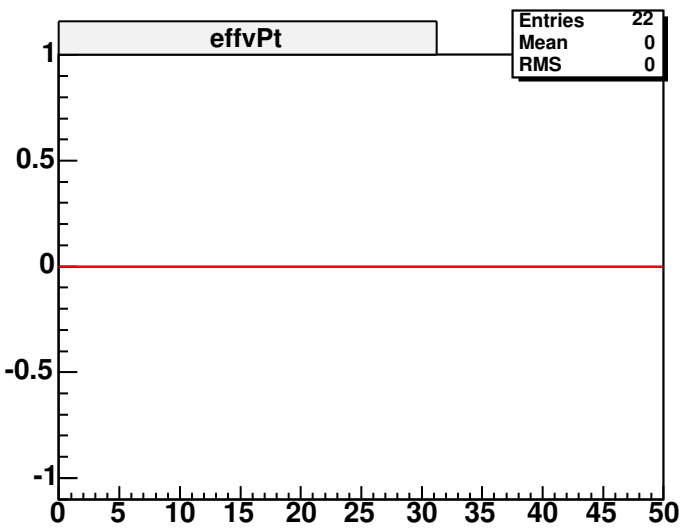


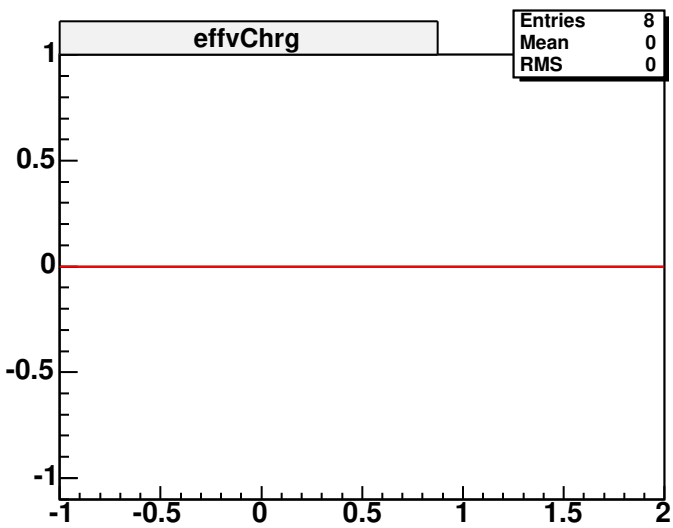


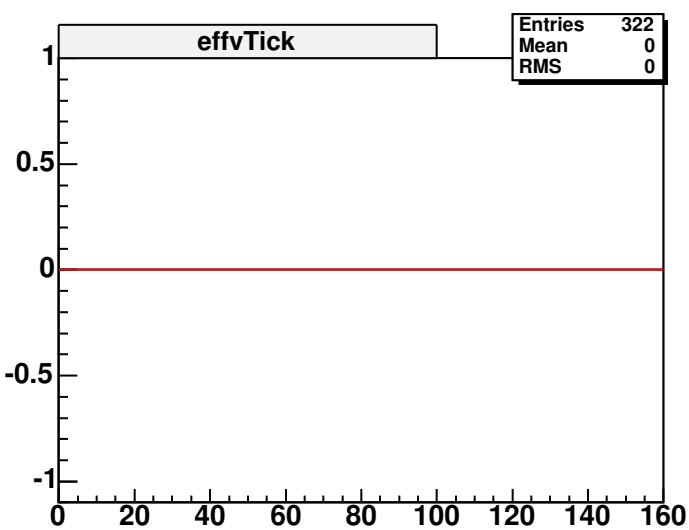
Track Hits (All)

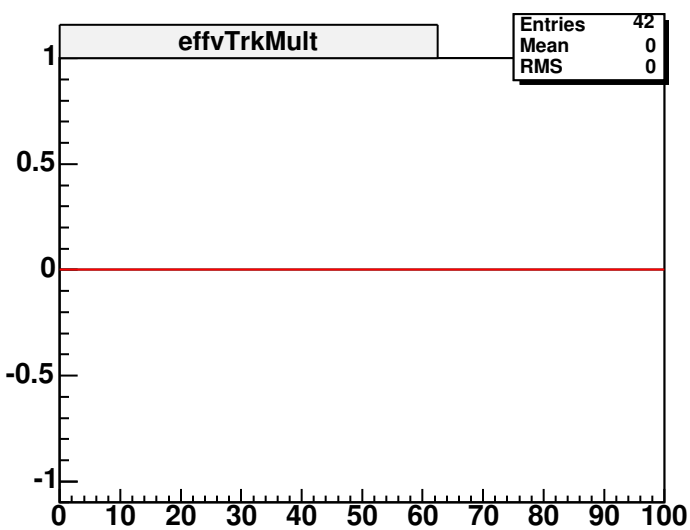




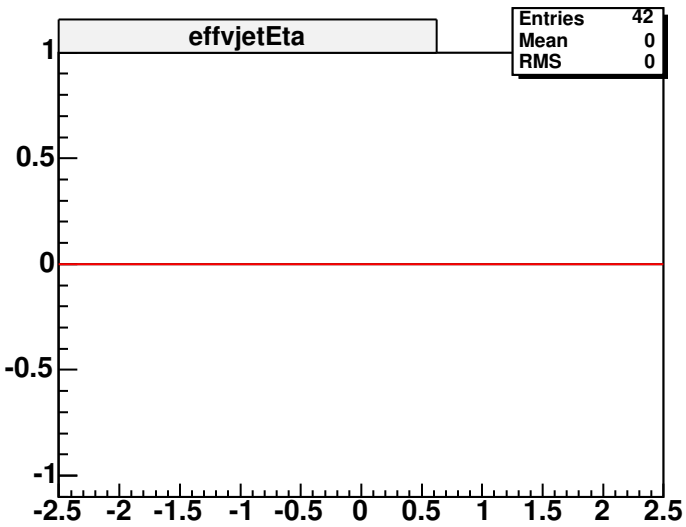


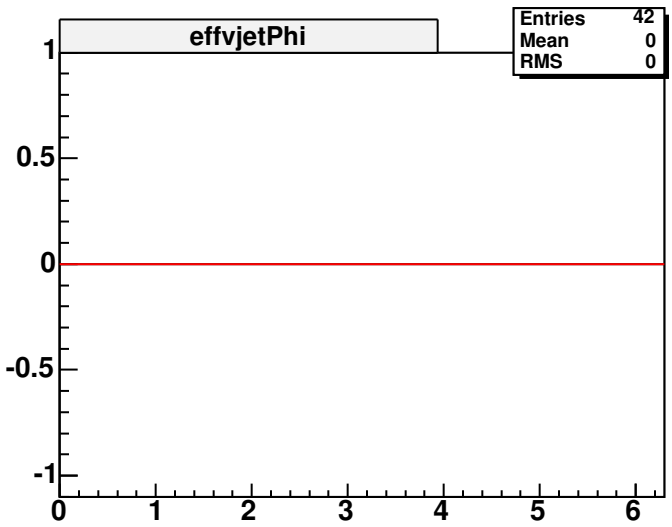


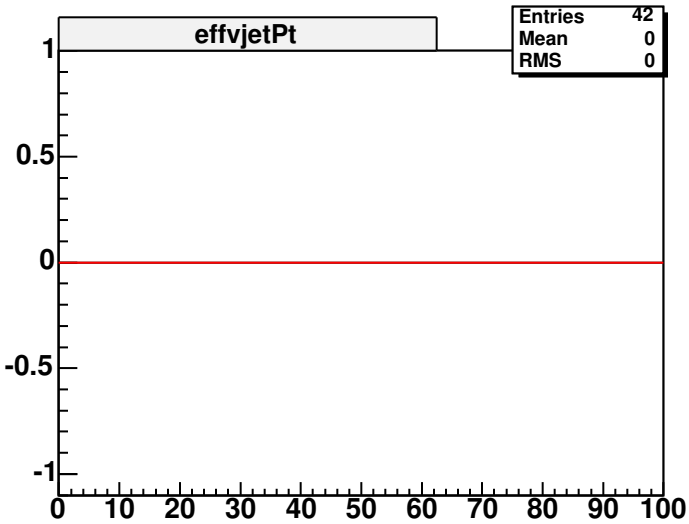




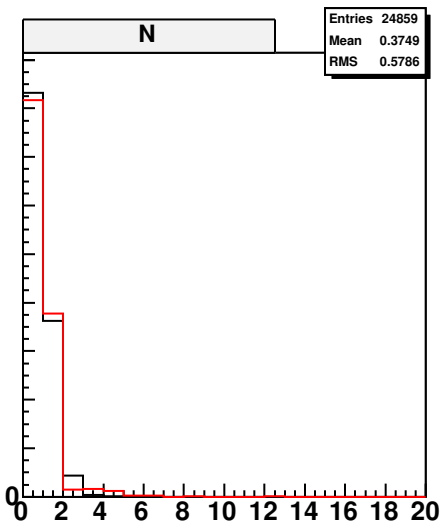
Tracking (Efficiency-Isolated)

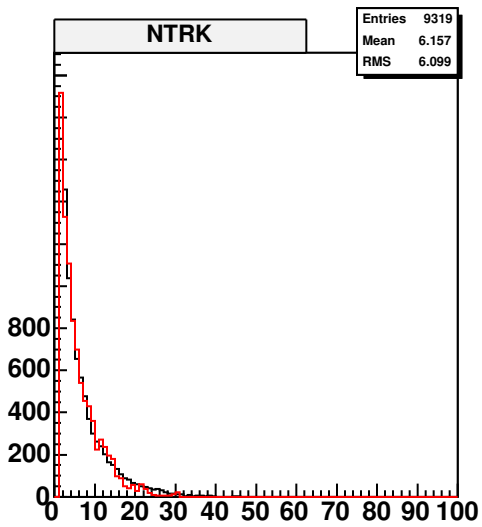


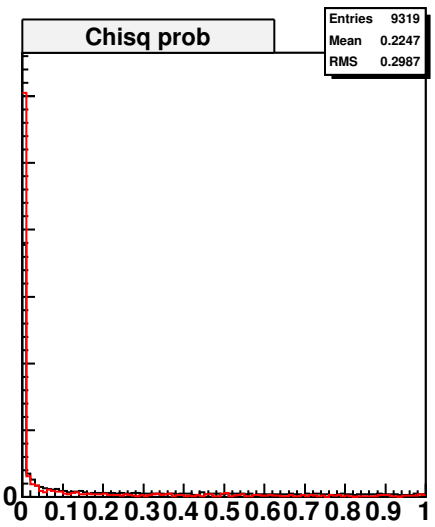


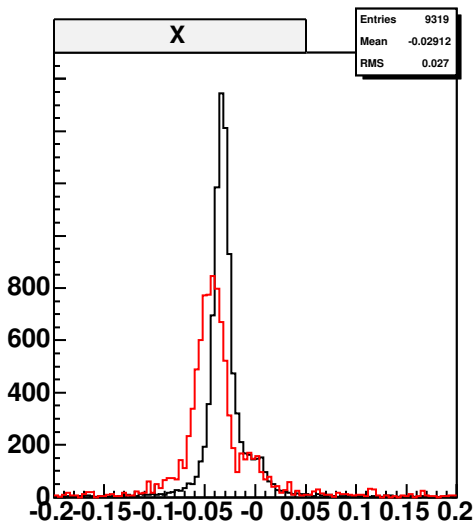


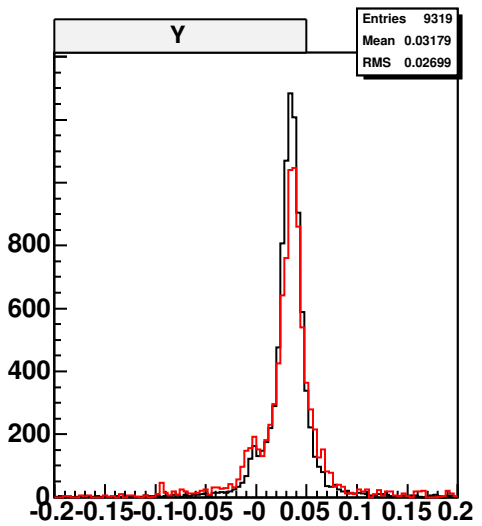
Tracking (Efficiency-InJets)

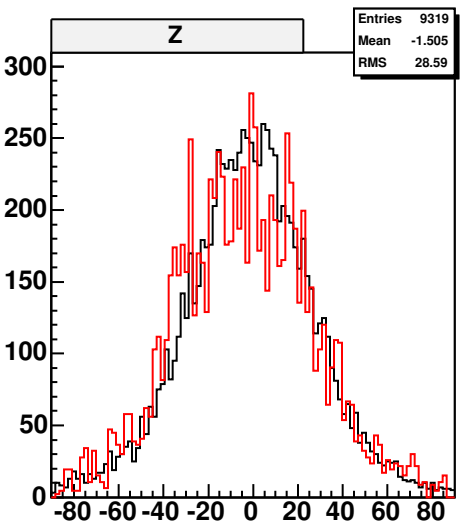


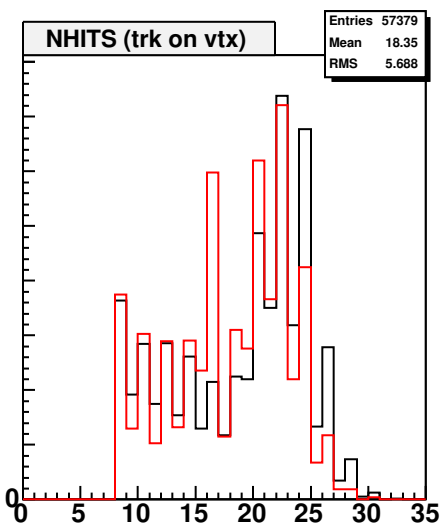


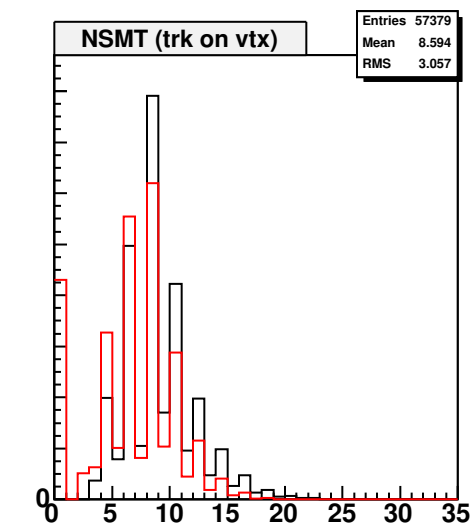


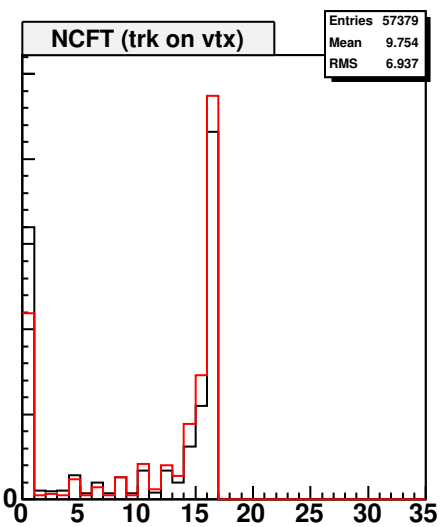




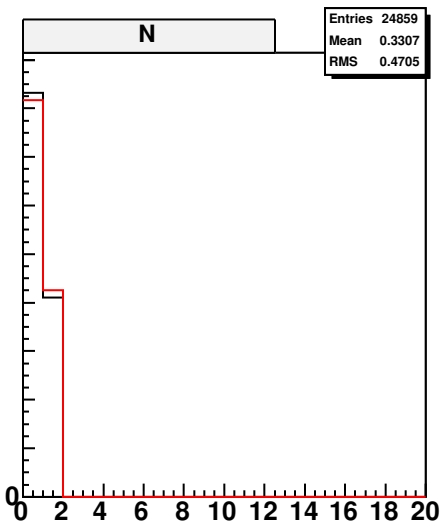


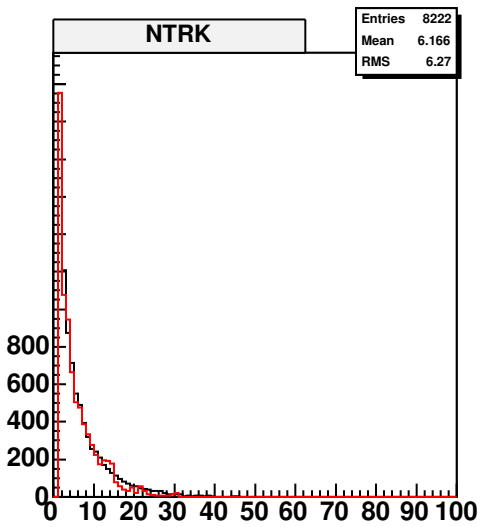


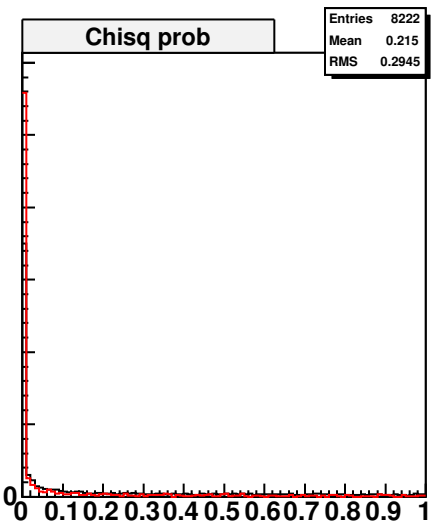


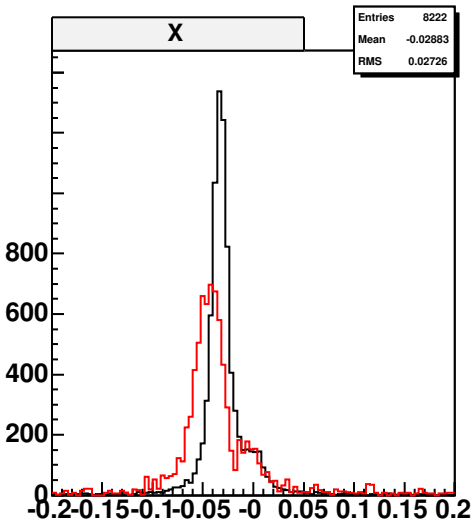


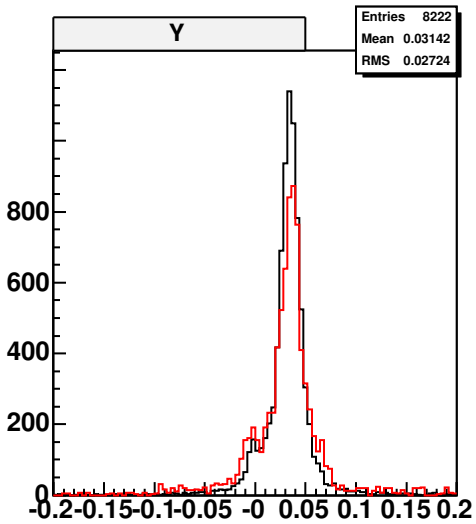
Vertices (Primary - all candidates)

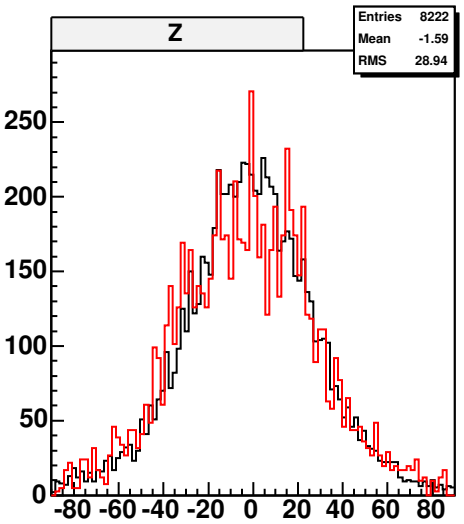


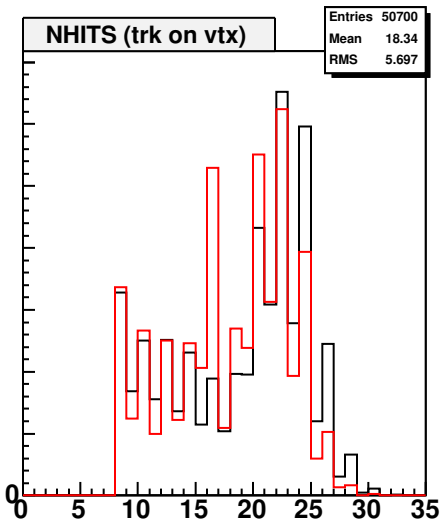


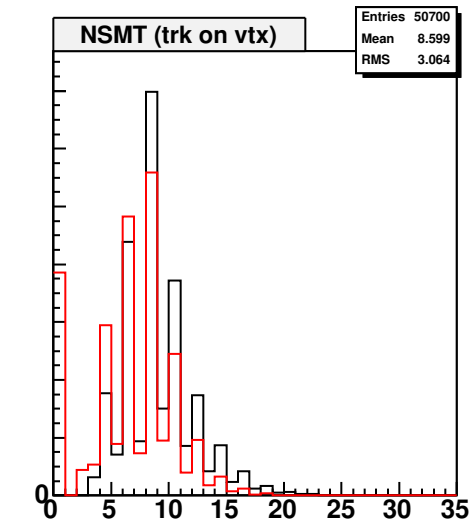


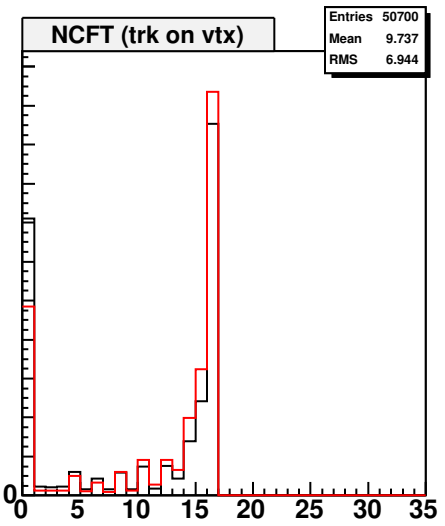




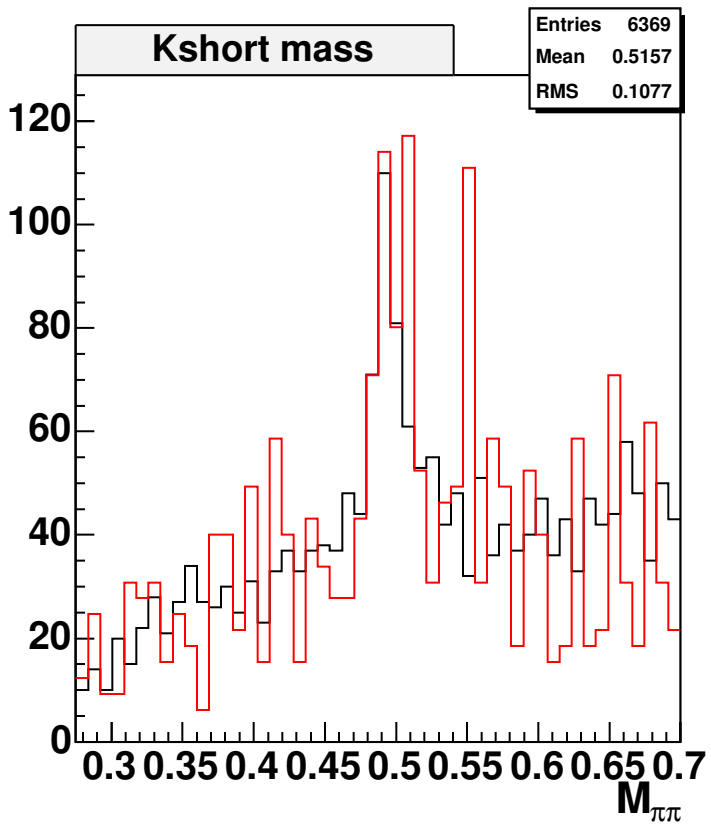


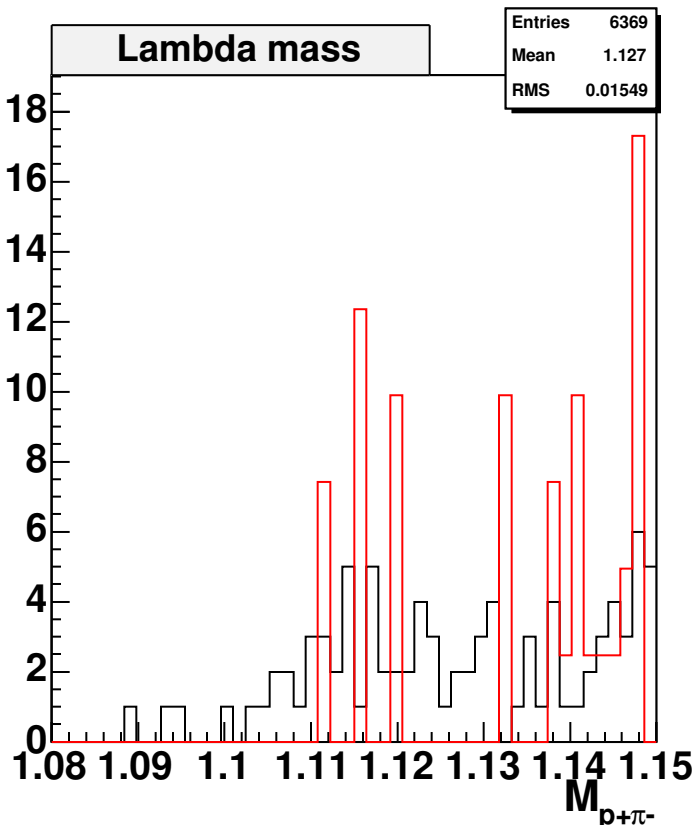


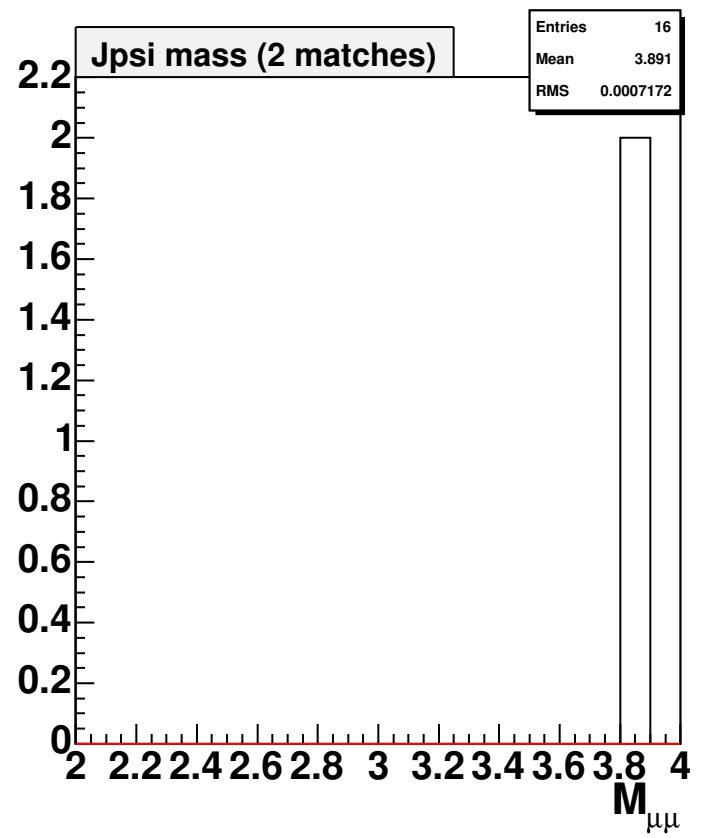


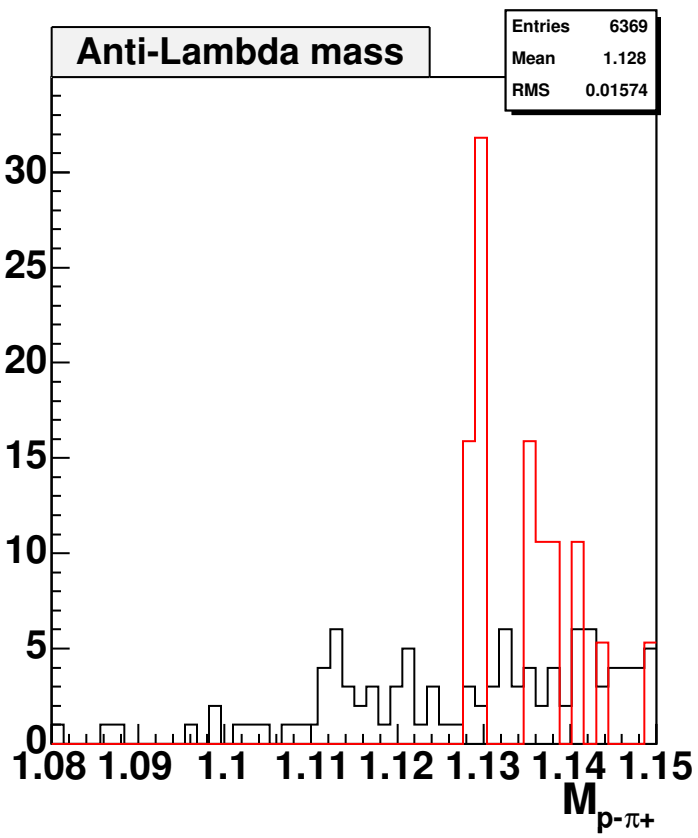


Vertices (Primary - best)

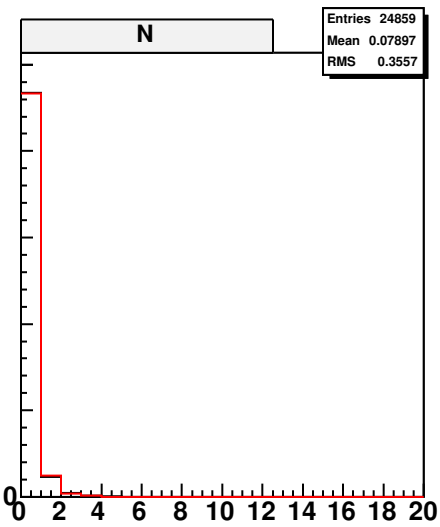

Kshort mass
Entries 6369
Mean 0.5157
RMS 0.1077
120
100
80
60
40
20
0
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
Mππ

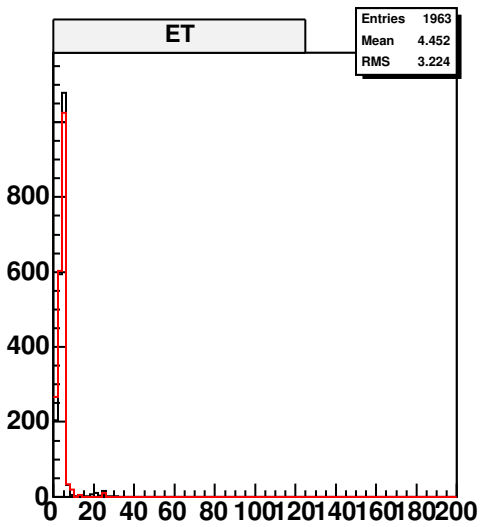

Lambda mass
Entries 6369
Mean 1.127
RMS 0.01549
18
16
14
12
10
8
6
4
2
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
Mp+π-

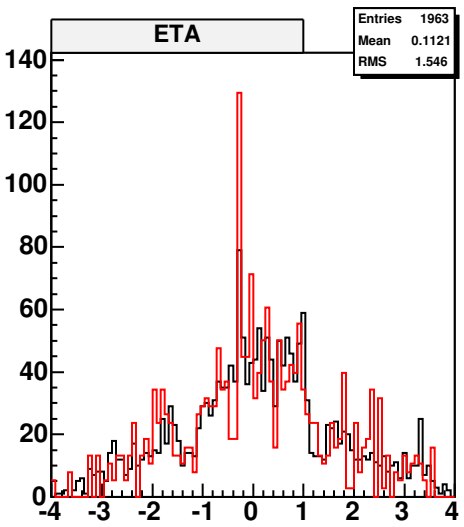

Jpsi mass (2 matches)
Entries 16
Mean 3.891
RMS 0.0007172
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
Mμμ

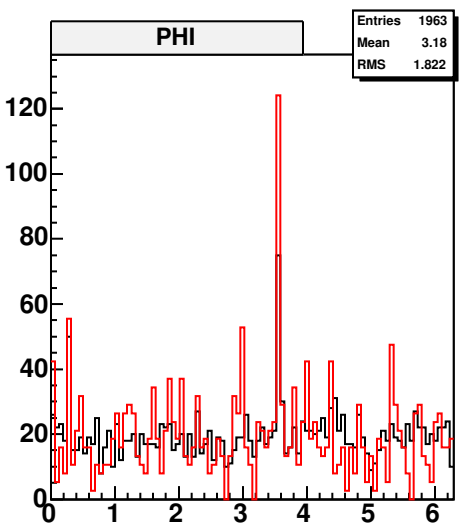

Anti-Lambda mass
Entries 6369
Mean 1.128
RMS 0.01574
30
25
20
15
10
5
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
Mp-π+

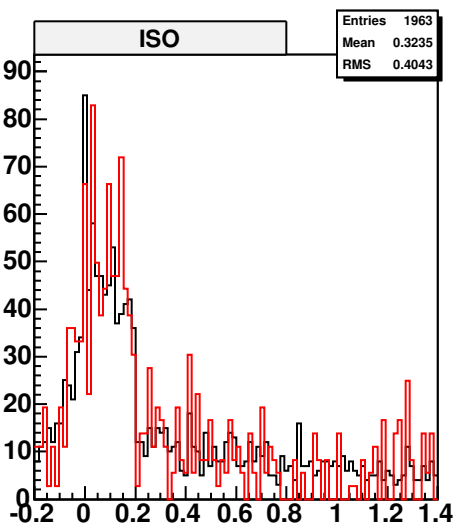
V0 (All)

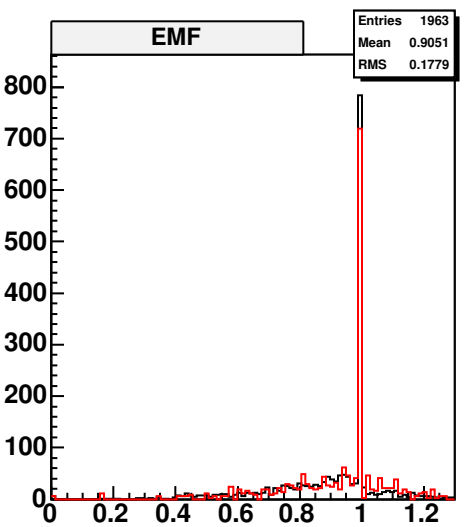


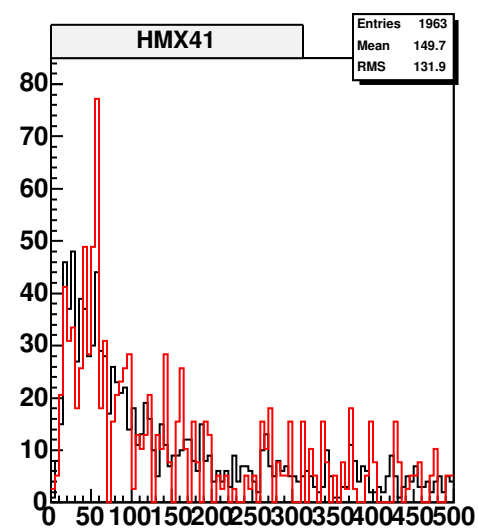


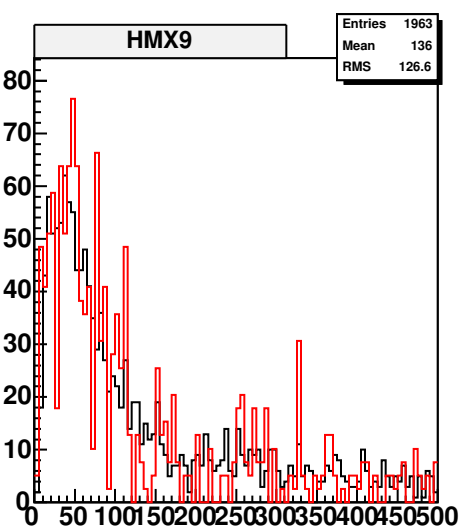


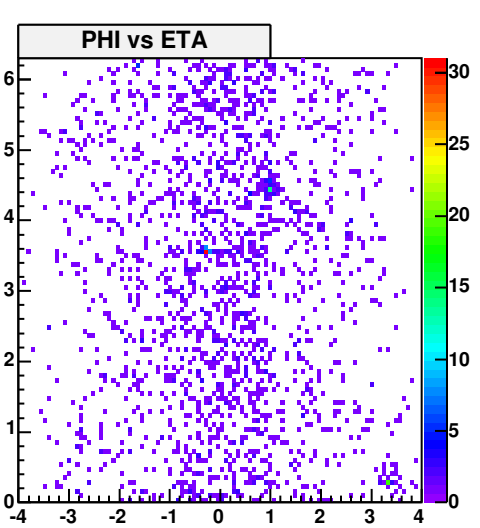




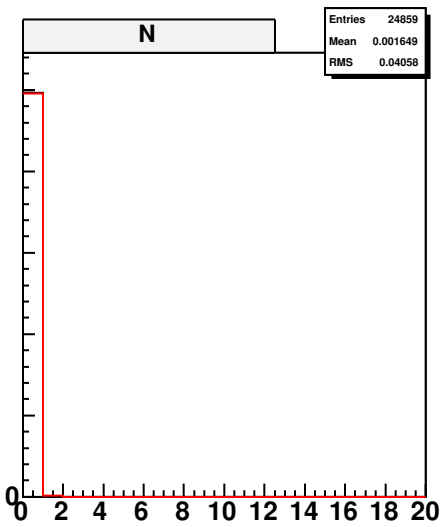


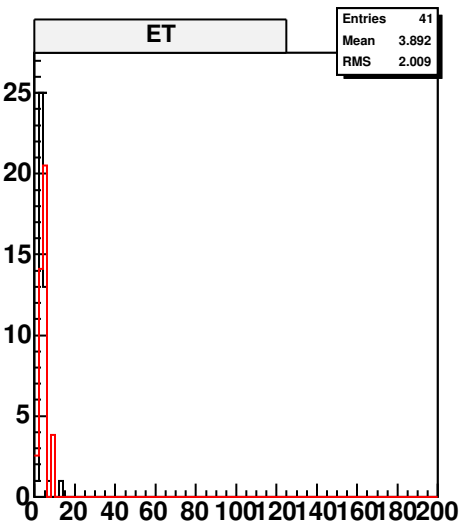


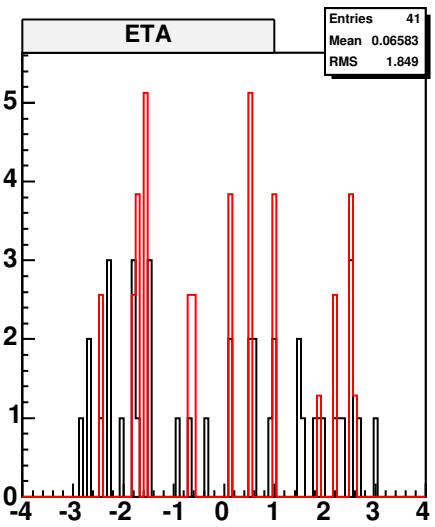


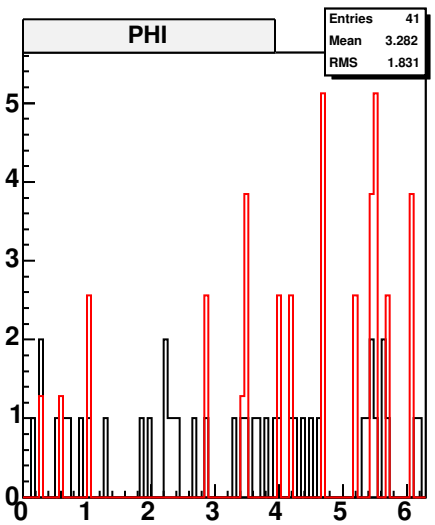


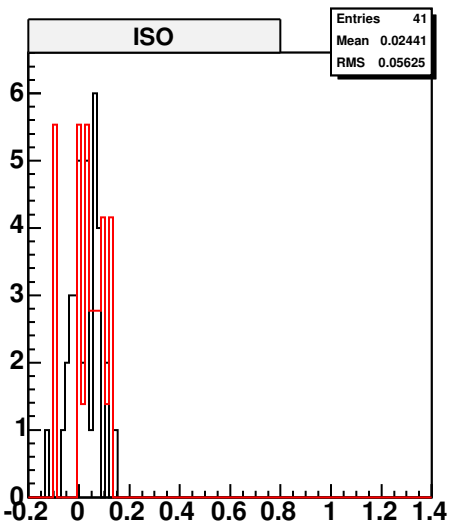
Electrons (SCONE All)

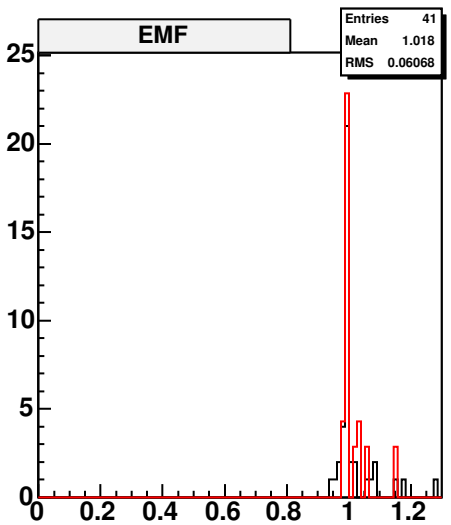


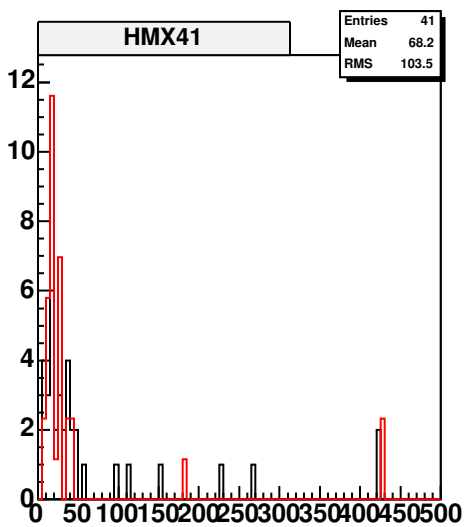


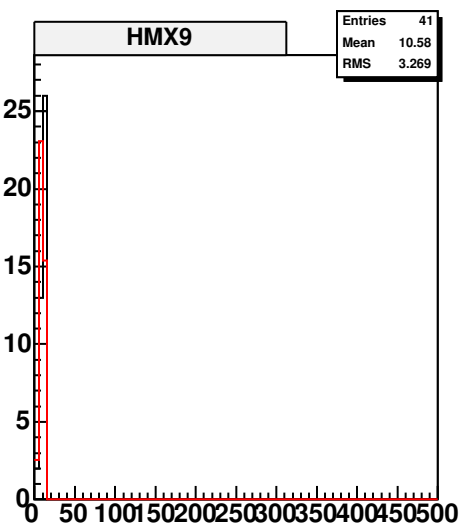


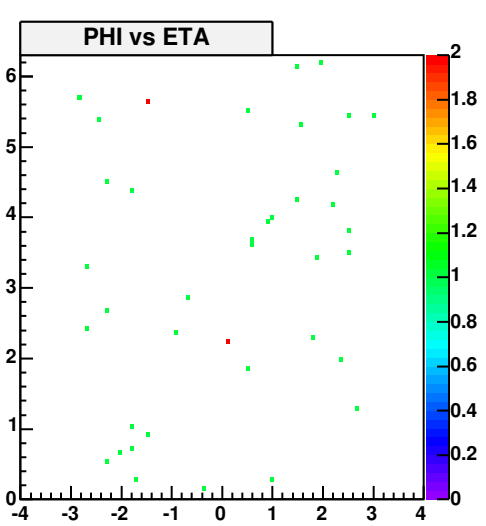




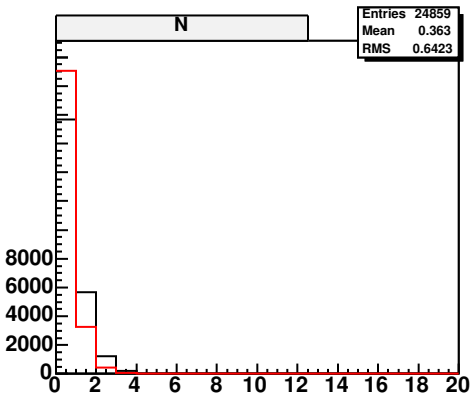


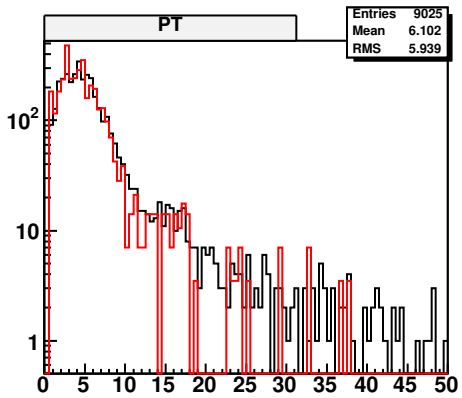


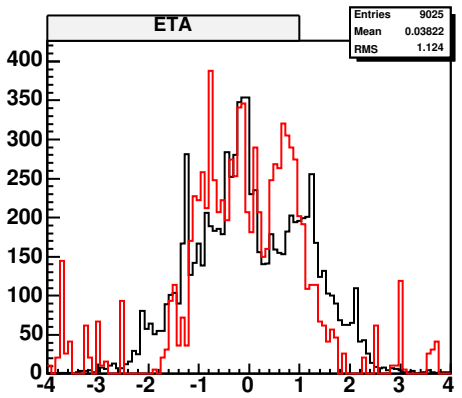


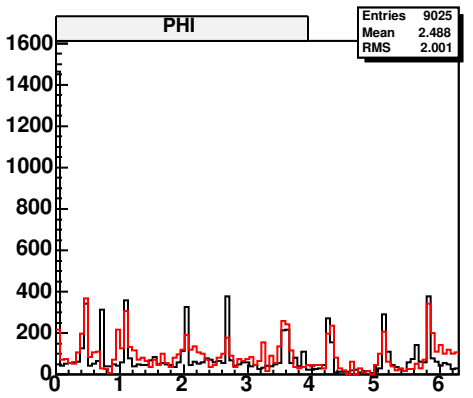


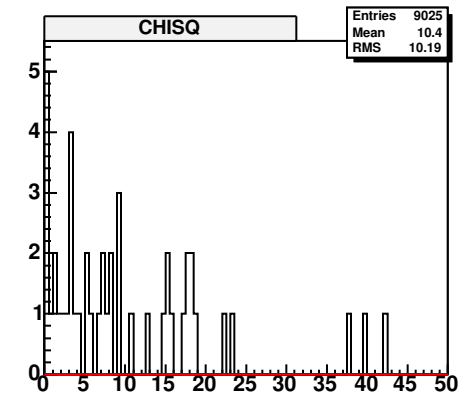
Electrons (SCONE Tight)

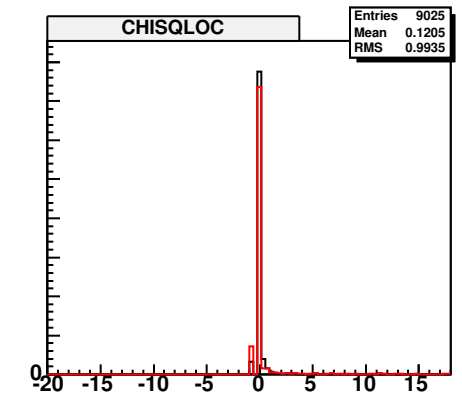

N
Entries 24859
Mean 0.363
RMS 0.6423

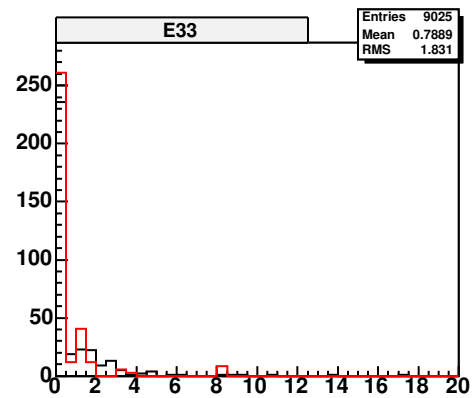

PT
Entries 9025
Mean 6.102
RMS 5.939

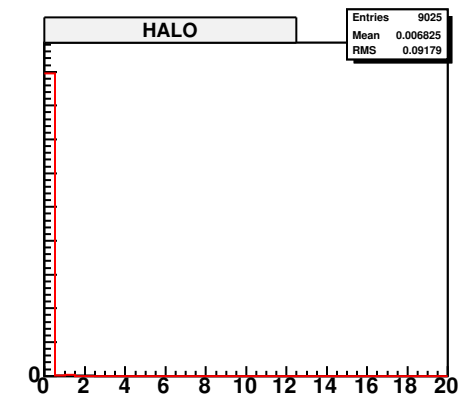

ETA
Entries 9025
Mean 0.03822
RMS 1.124

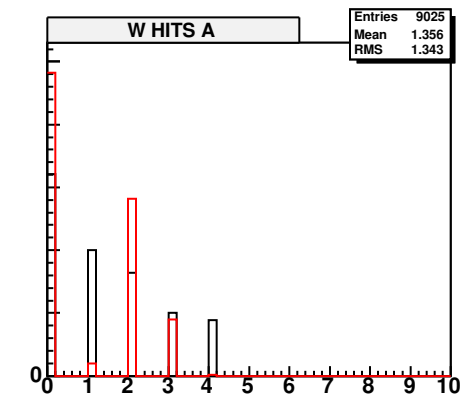

PHI
Entries 9025
Mean 2.488
RMS 2.001

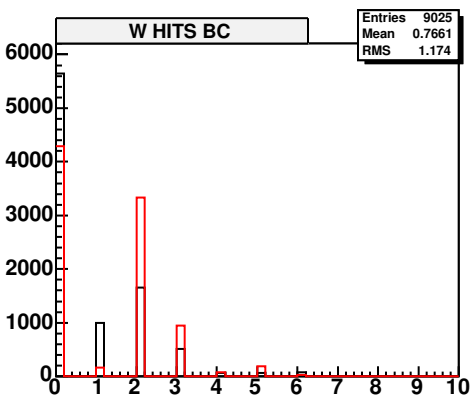

CHISQ
Entries 9025
Mean 10.4
RMS 10.19

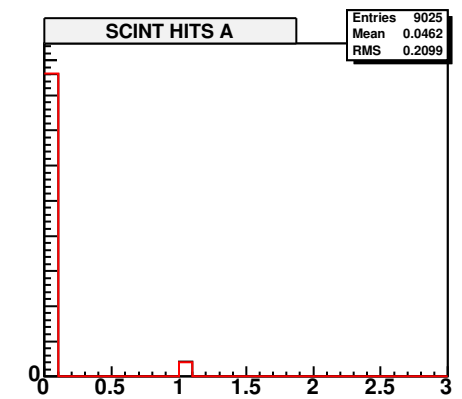

CHISQLOC
Entries 9025
Mean 0.1205
RMS 0.9935

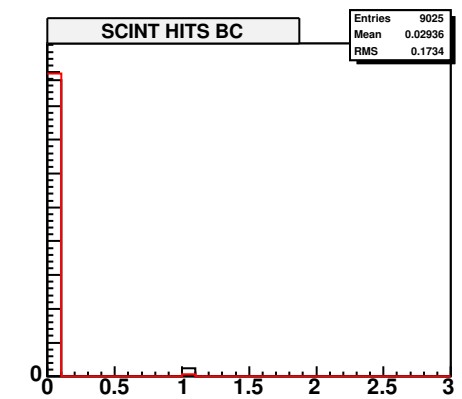

E33
Entries 9025
Mean 0.7889
RMS 1.831


HALO
Entries 9025
Mean 0.006825
RMS 0.09179

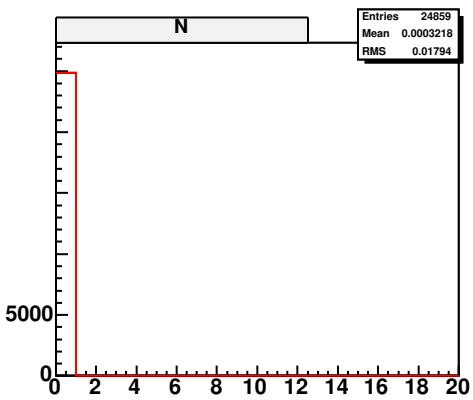

W HITS A
Entries 9025
Mean 1.356
RMS 1.343

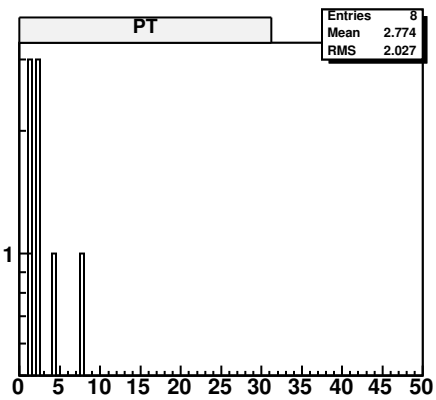

W HITS BC
Entries 9025
Mean 0.7661
RMS 1.174

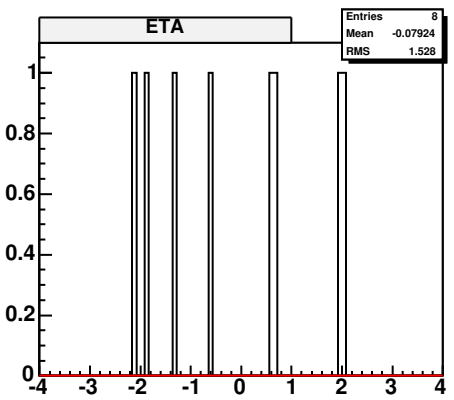

SCINT HITS A
Entries 9025
Mean 0.0462
RMS 0.2099

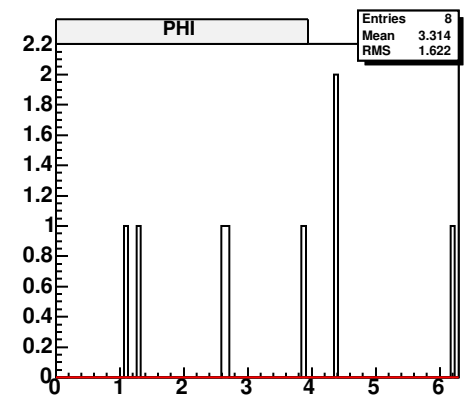

SCINT HITS BC
Entries 9025
Mean 0.02936
RMS 0.1734

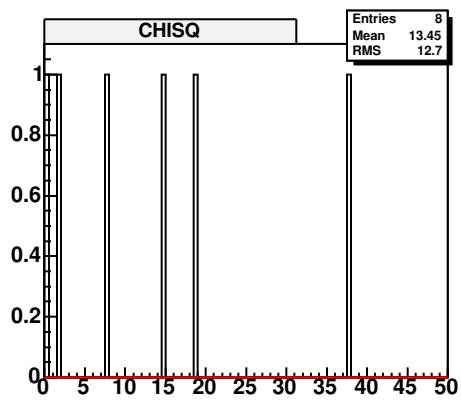
Muons (All)

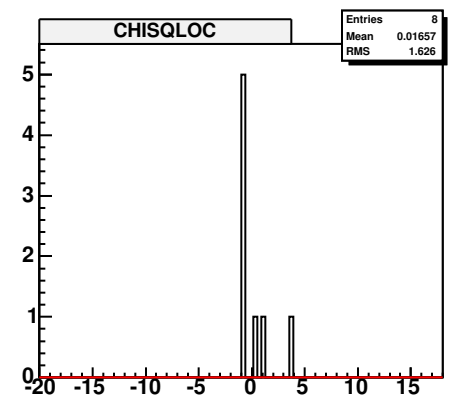


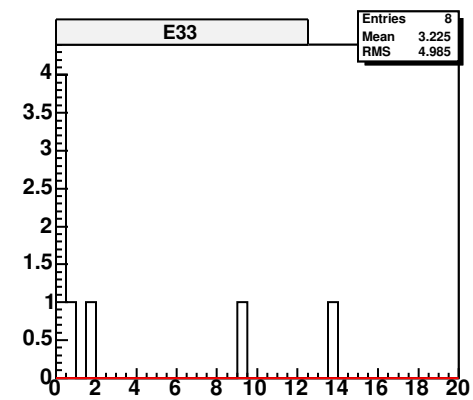


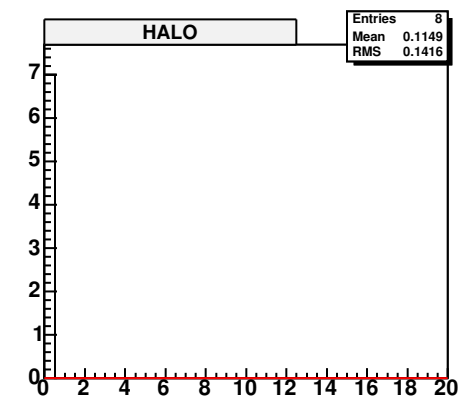


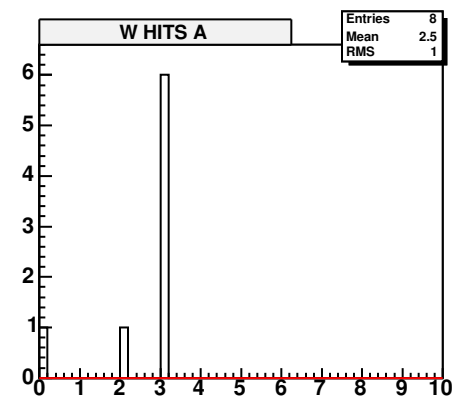


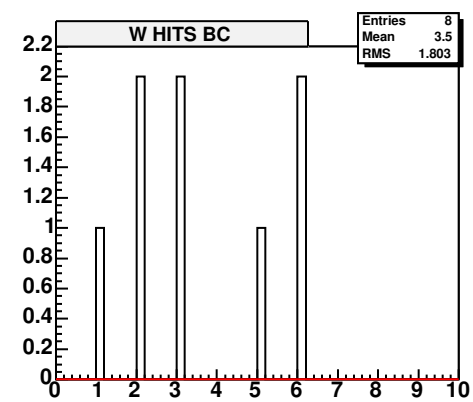


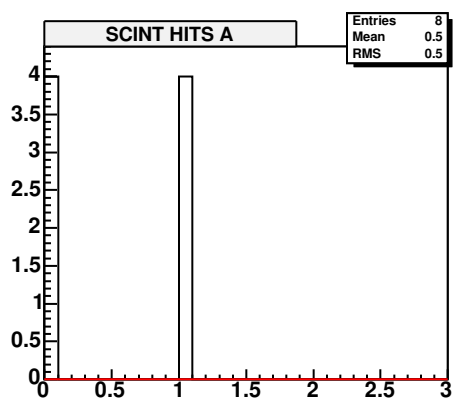


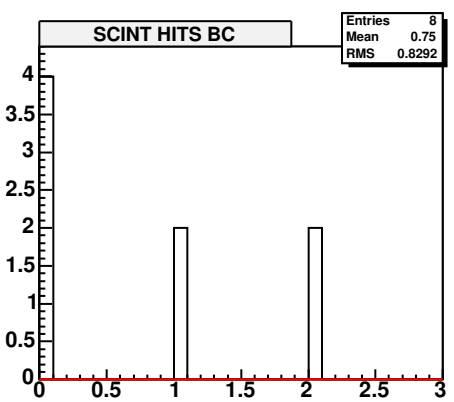




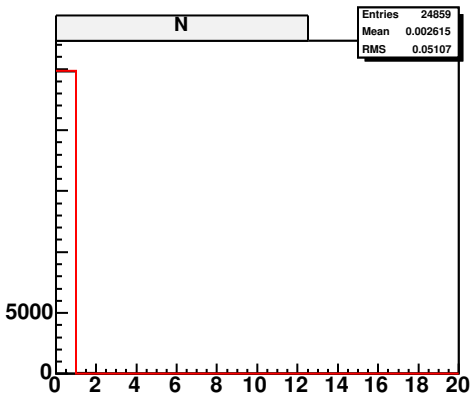


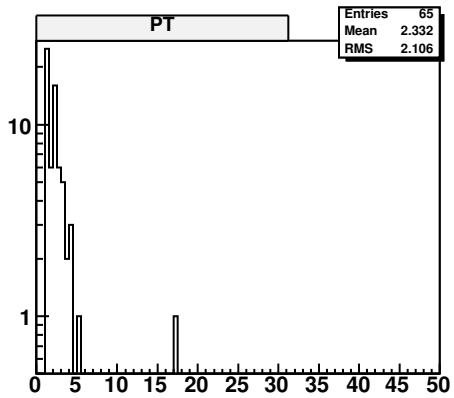


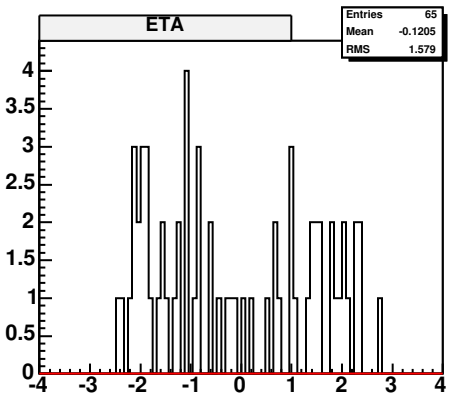


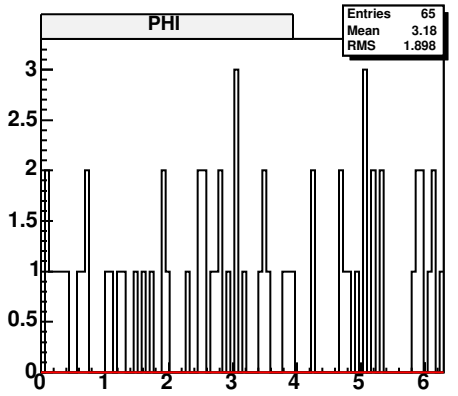


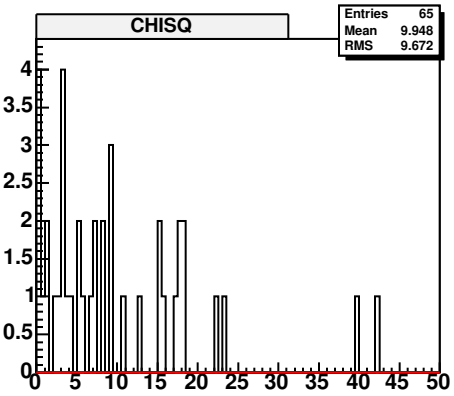
Muons (Matched)

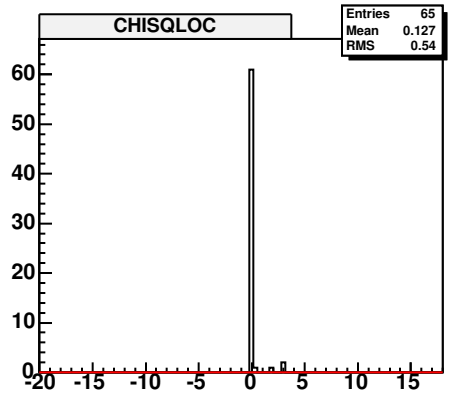

N
Entries 24859
Mean 0.002615
RMS 0.05107

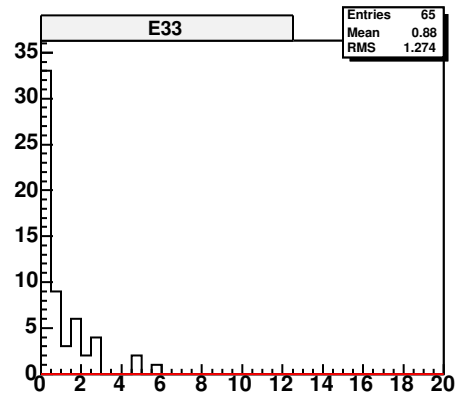

PT
Entries 65
Mean 2.332
RMS 2.106

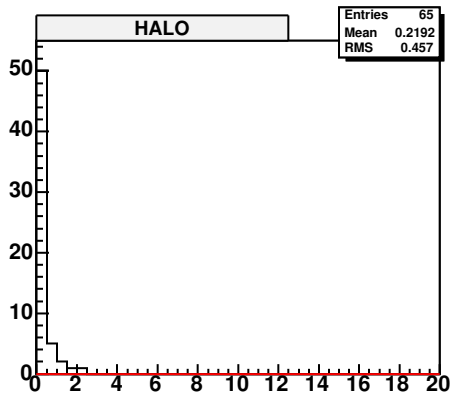

ETA
Entries 65
Mean -0.1205
RMS 1.579

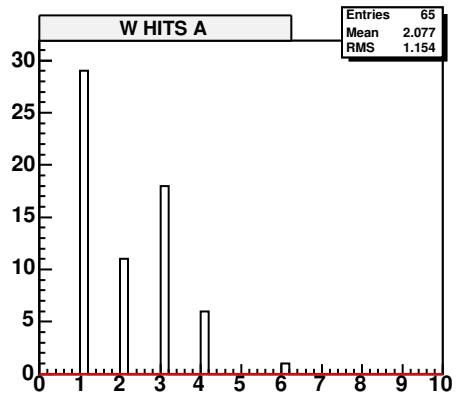

PHI
Entries 65
Mean 3.18
RMS 1.898

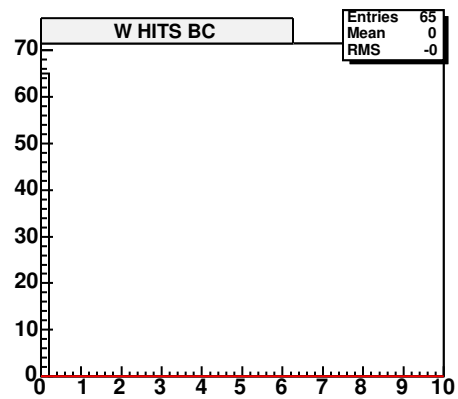

CHISQ
Entries 65
Mean 9.948
RMS 9.672

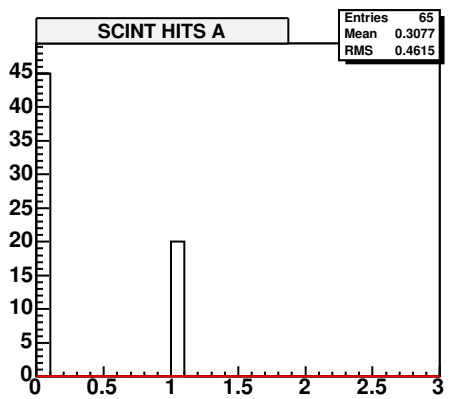

CHISQLOC
Entries 65
Mean 0.127
RMS 0.54

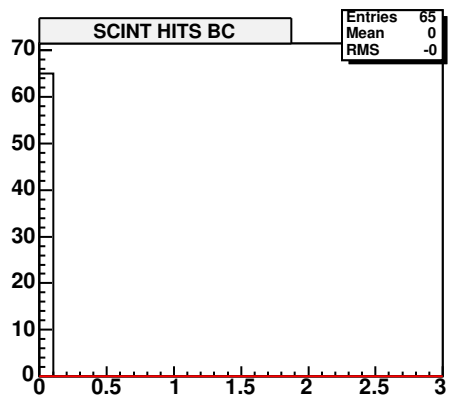

E33
Entries 65
Mean 0.88
RMS 1.274


HALO
Entries 65
Mean 0.2192
RMS 0.457

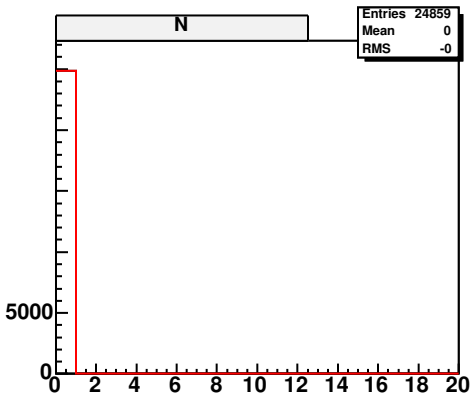

W HITS A
Entries 65
Mean 2.077
RMS 1.154

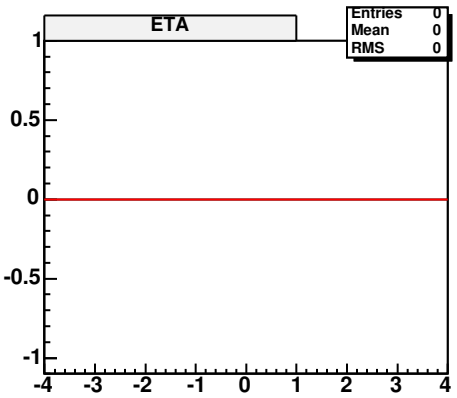

W HITS BC
Entries 65
Mean 0
RMS -0

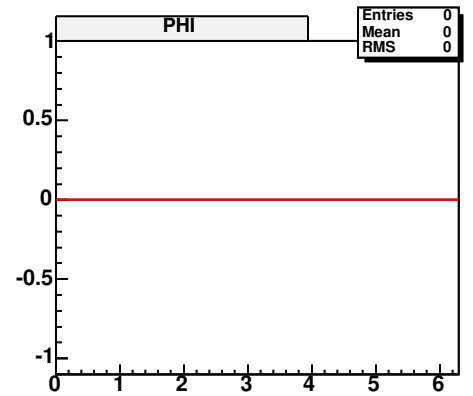

SCINT HITS A
Entries 65
Mean 0.3077
RMS 0.4615

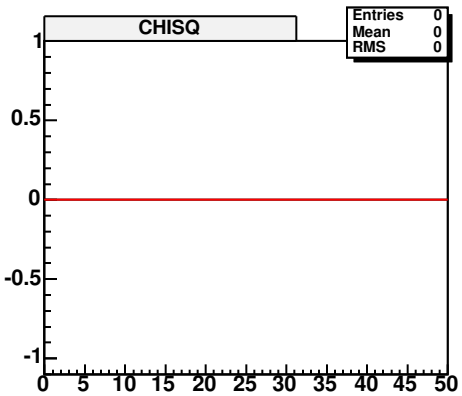

SCINT HITS BC
Entries 65
Mean 0
RMS -0

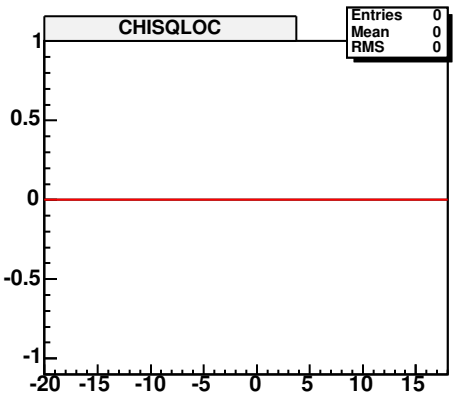
Muons (Astub)

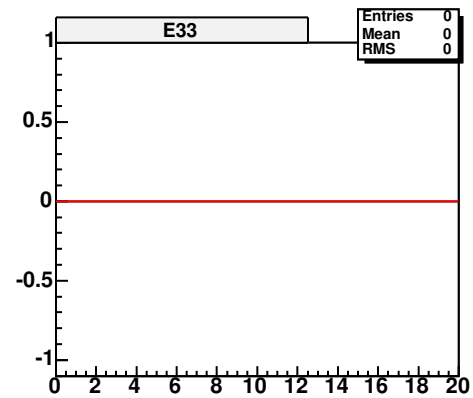


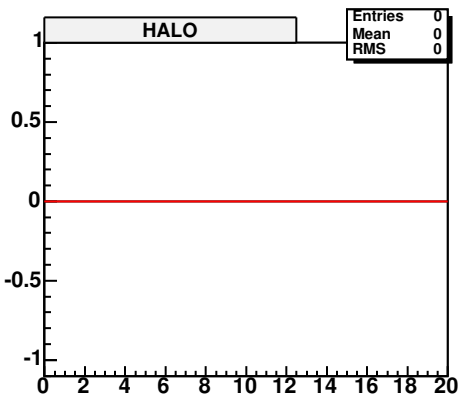


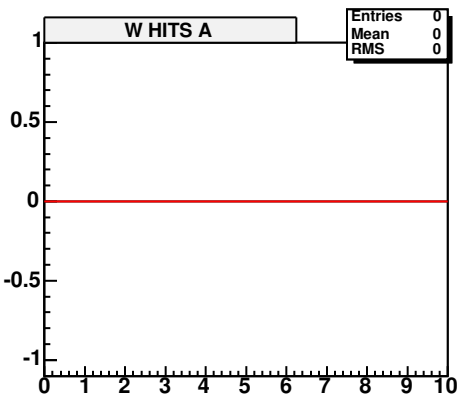


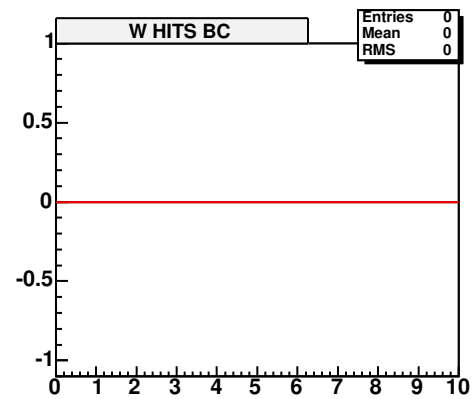


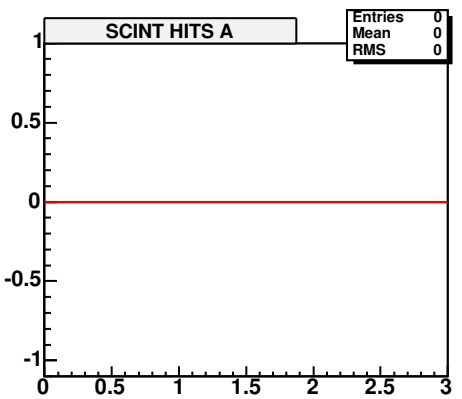


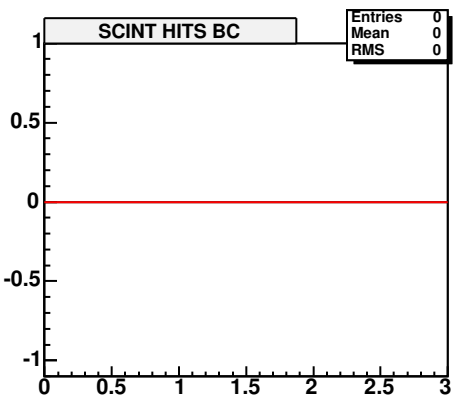




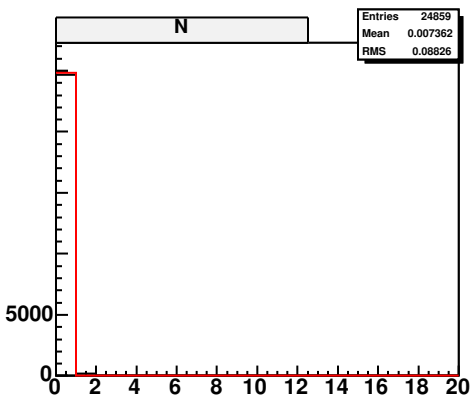


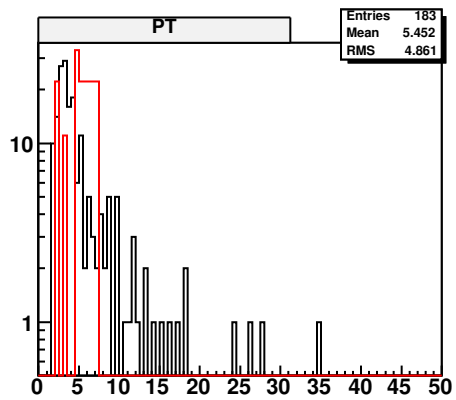


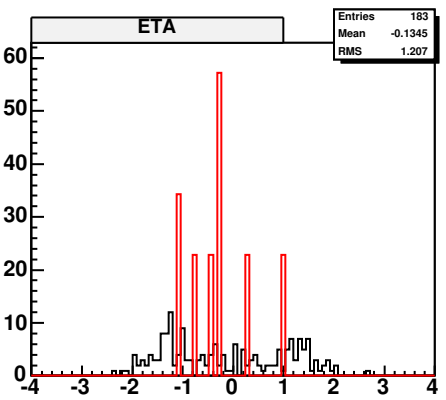


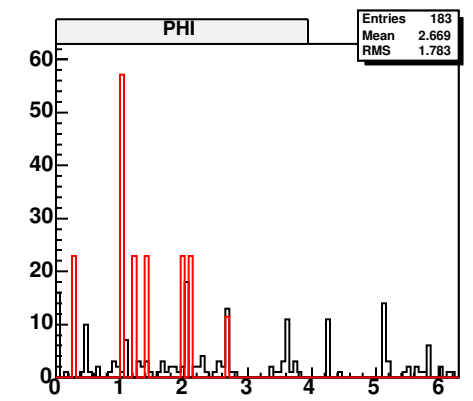


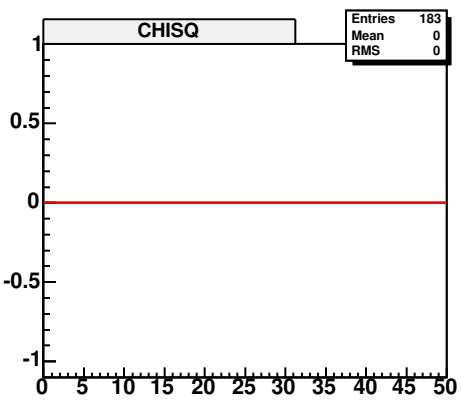
Muons (BCstub)

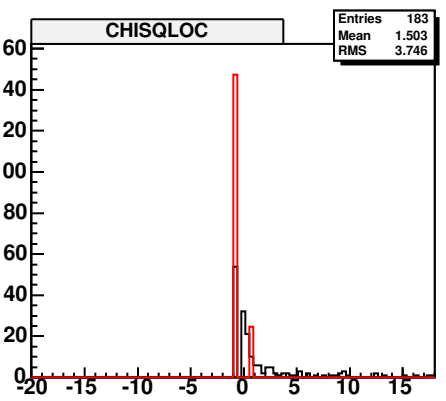


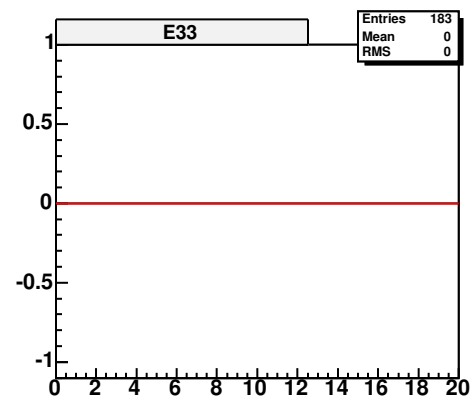


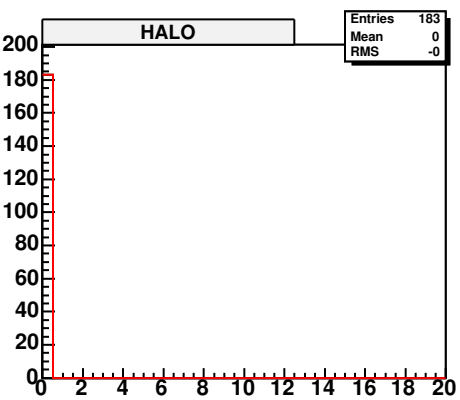


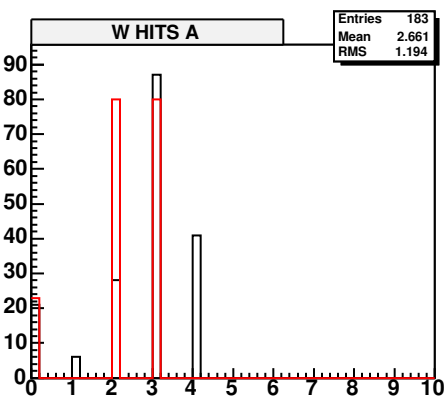


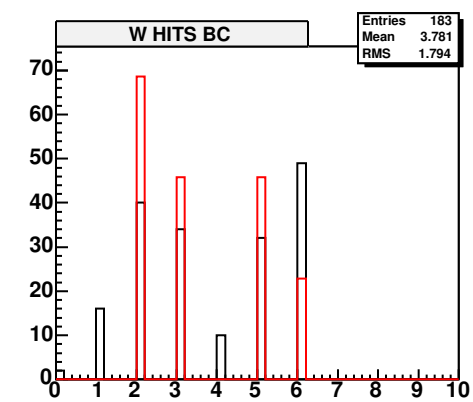


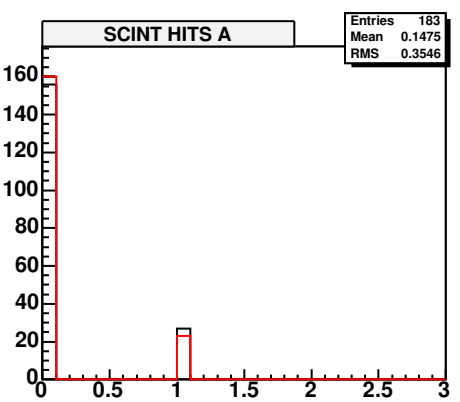


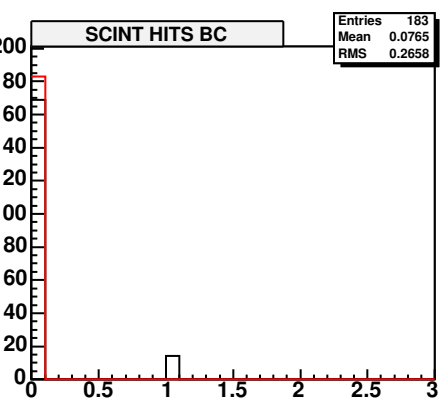




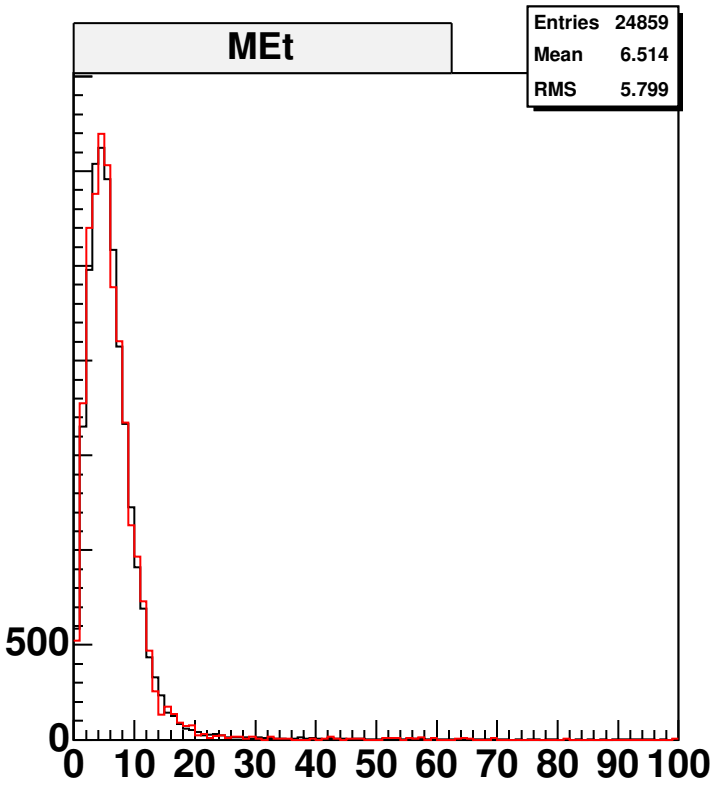


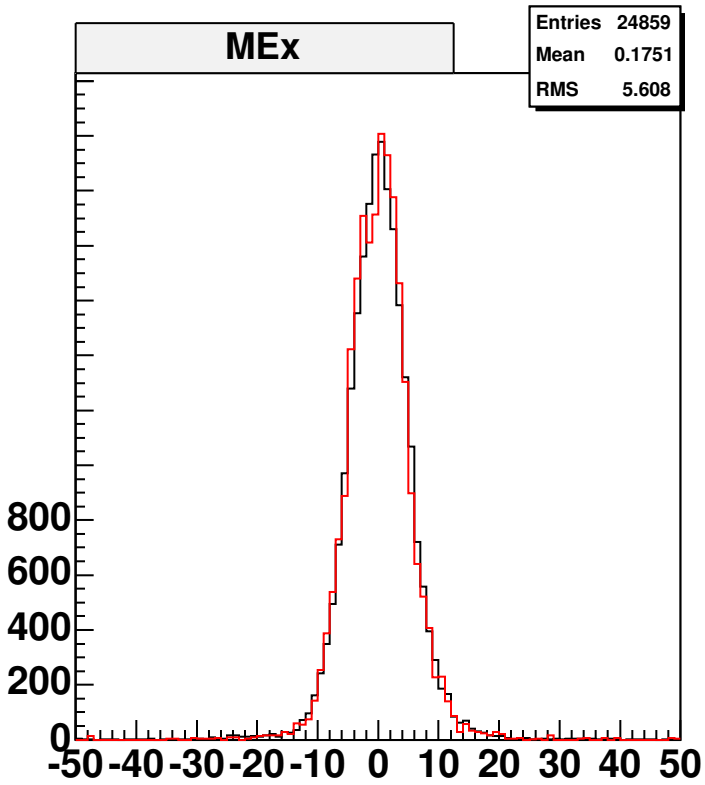






Muons (Unmatched)


MEt
Entries 24859
Mean 6.514
RMS 5.799
500
0
0 10 20 30 40 50 60 70 80 90 100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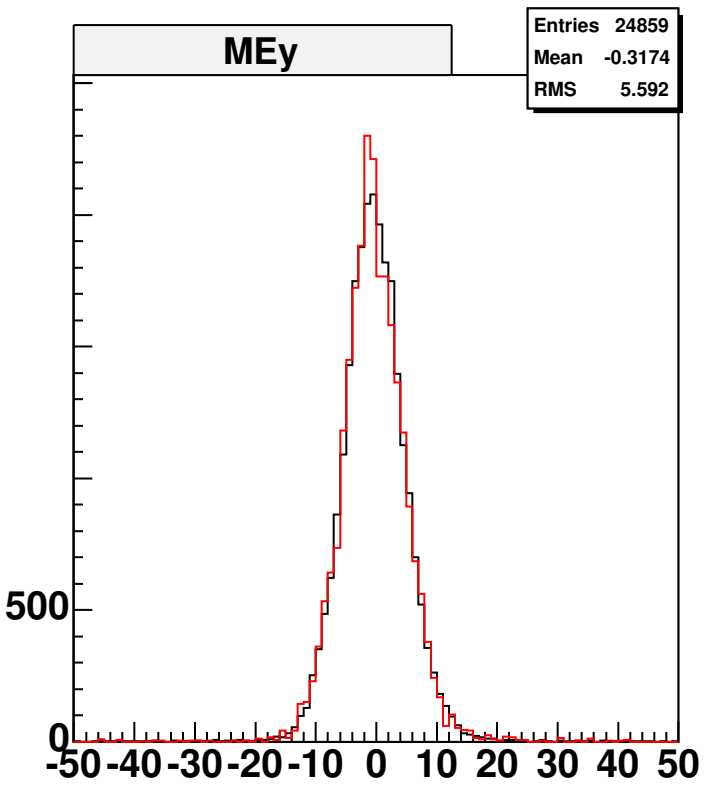
MEy
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500
0
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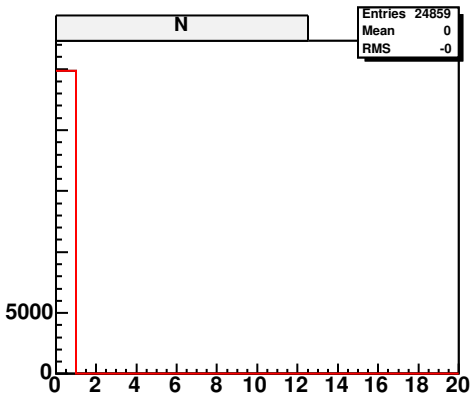
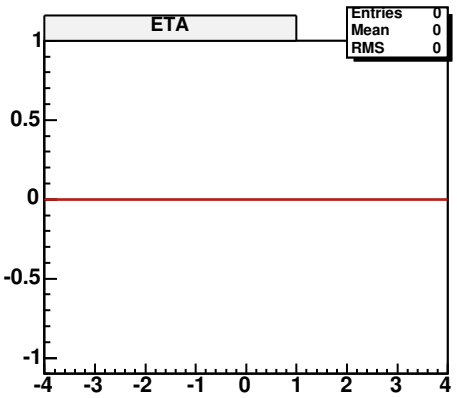
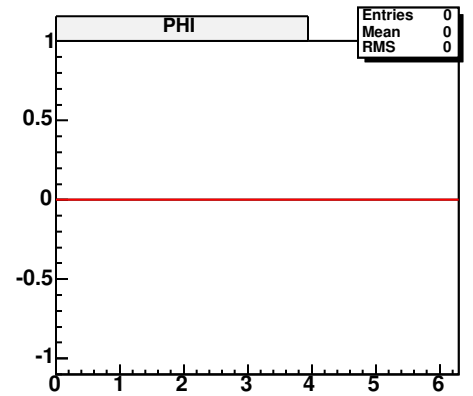
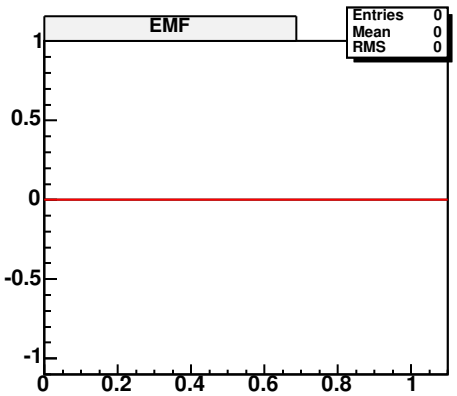
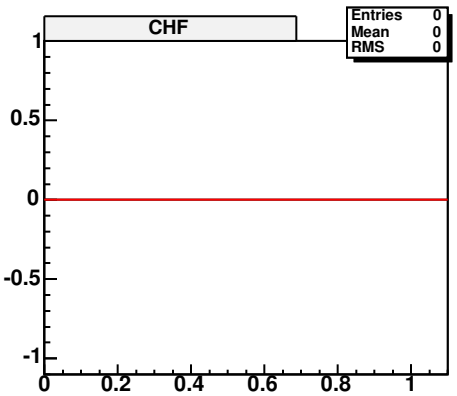
Met (No cuts)

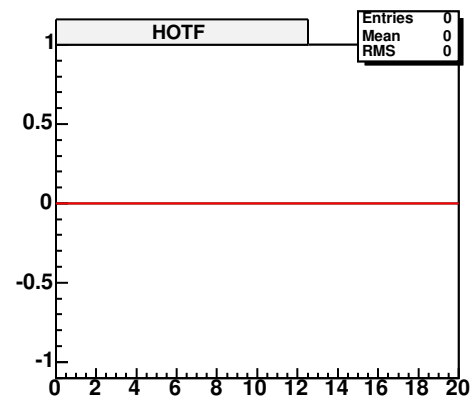


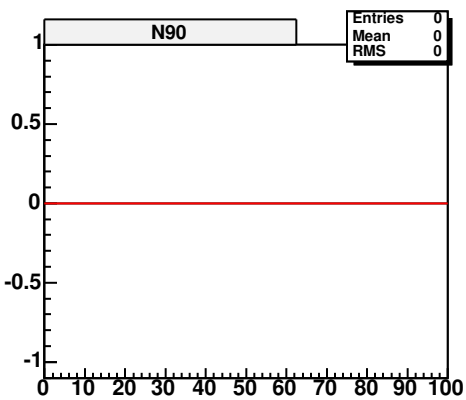


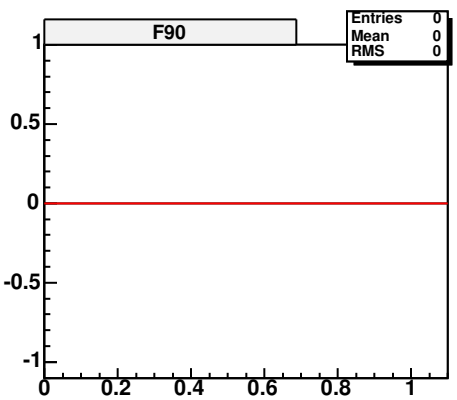


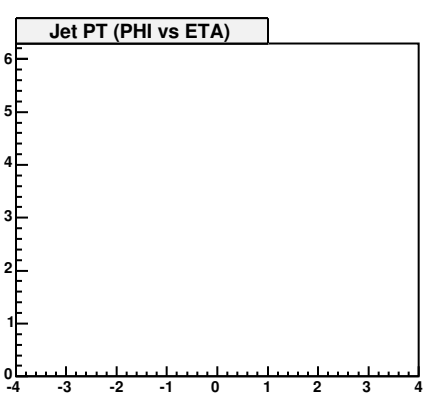




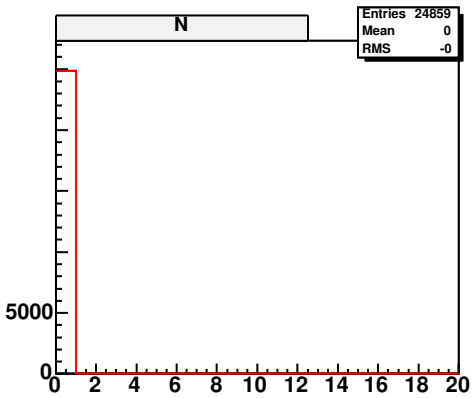


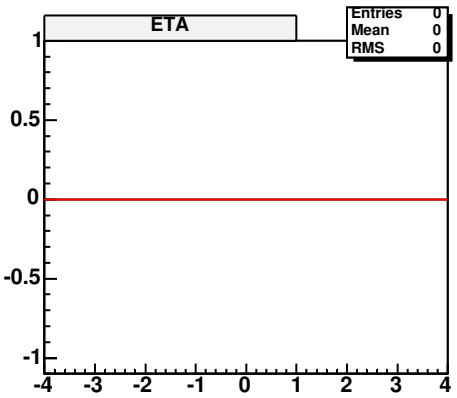


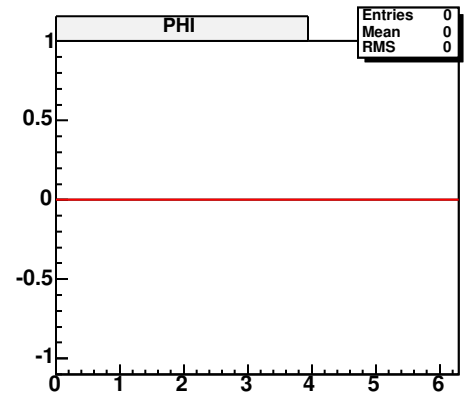


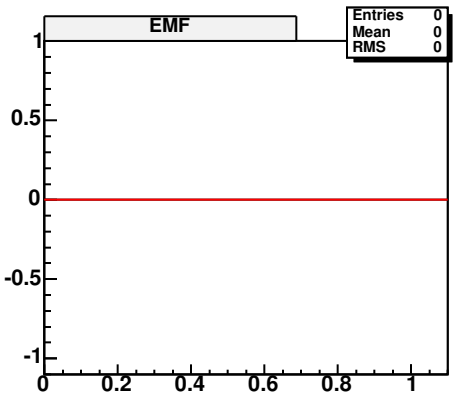


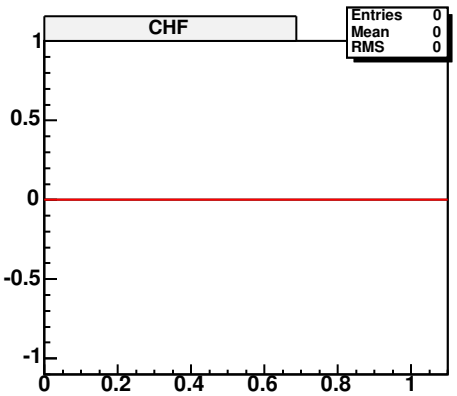
Jets (Cone R 0.7 (no cuts))

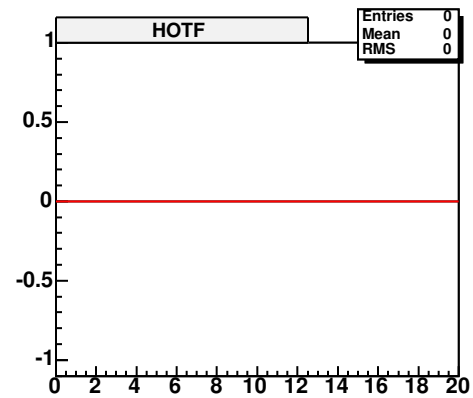


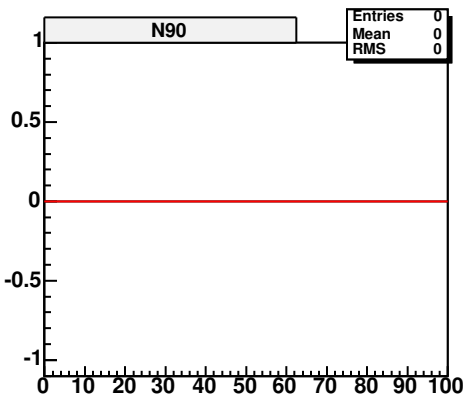


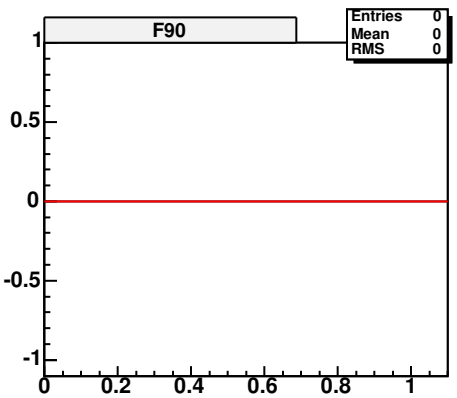


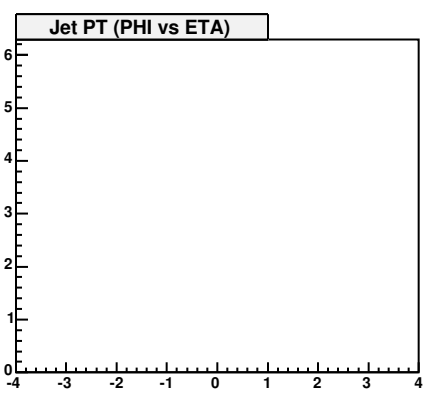




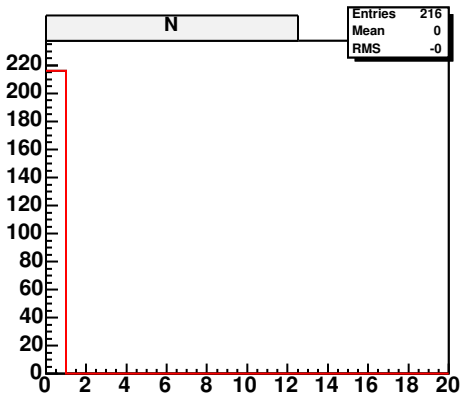


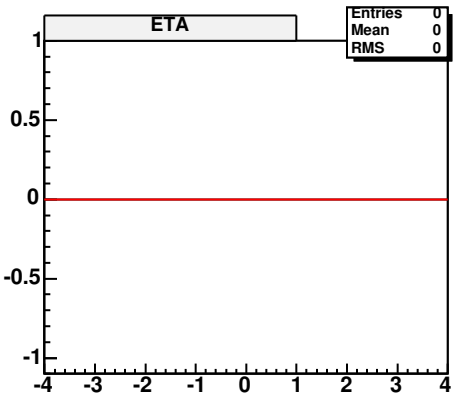


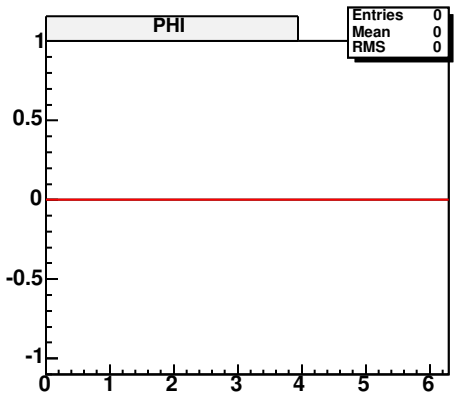


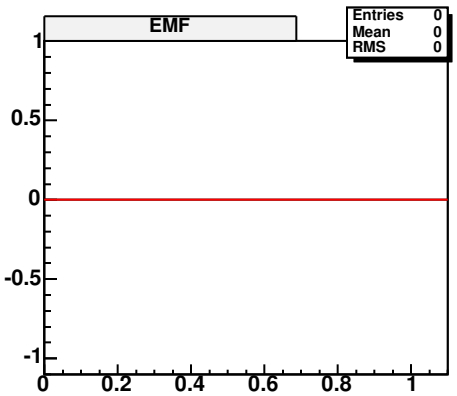


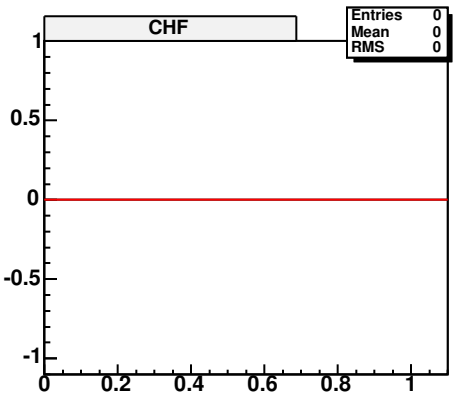
Jets (Cone R 0.7 (standard cuts))

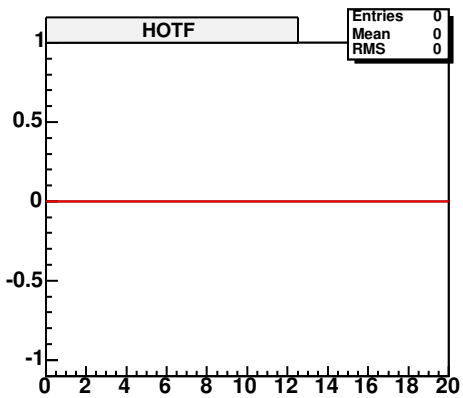


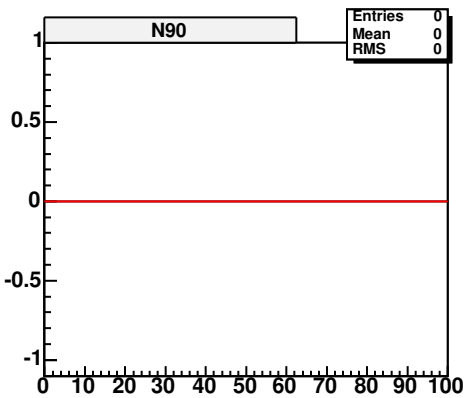


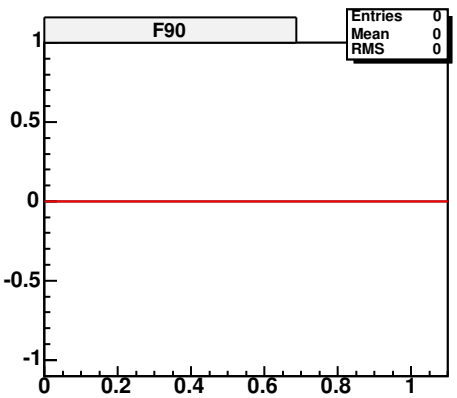


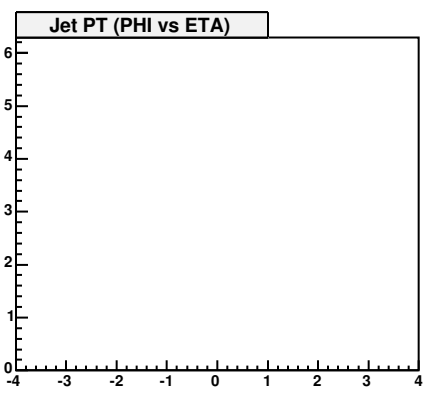




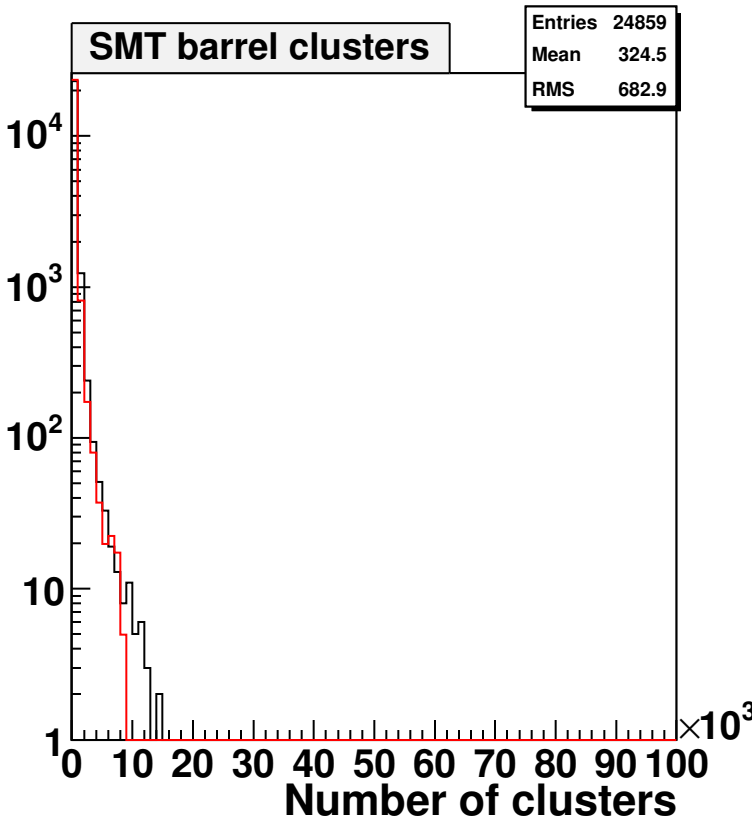


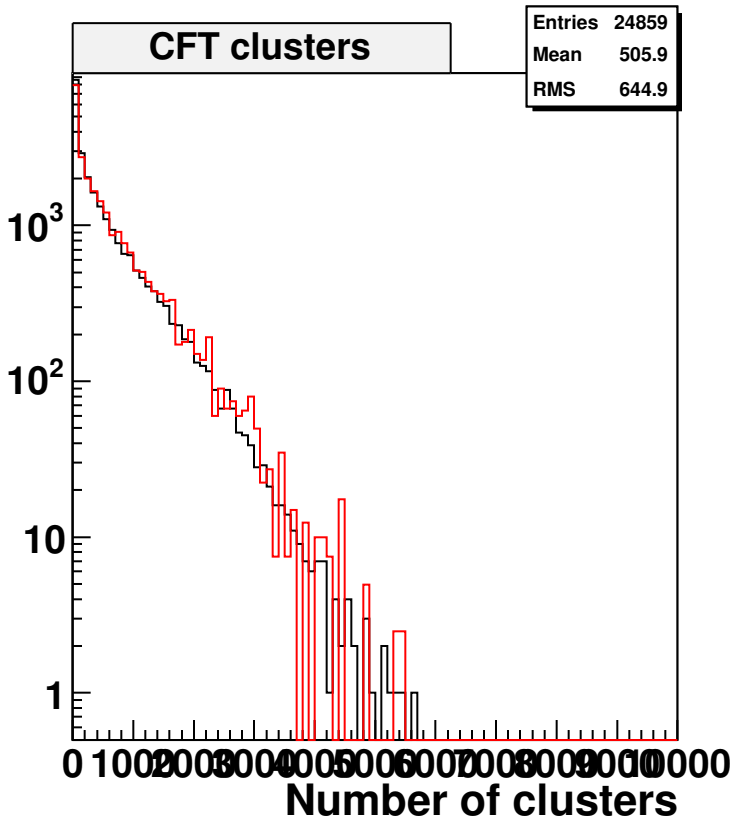


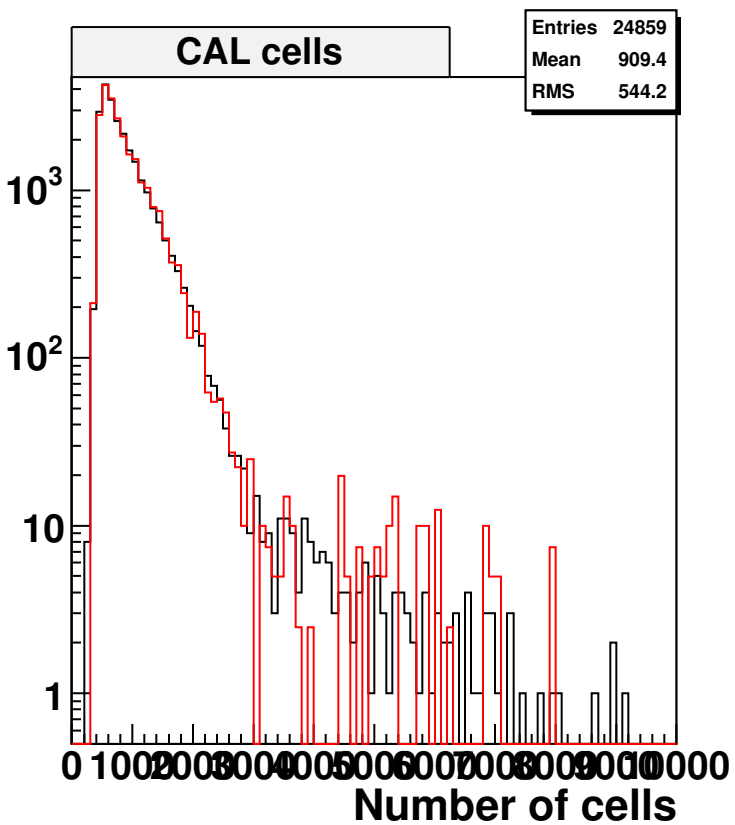


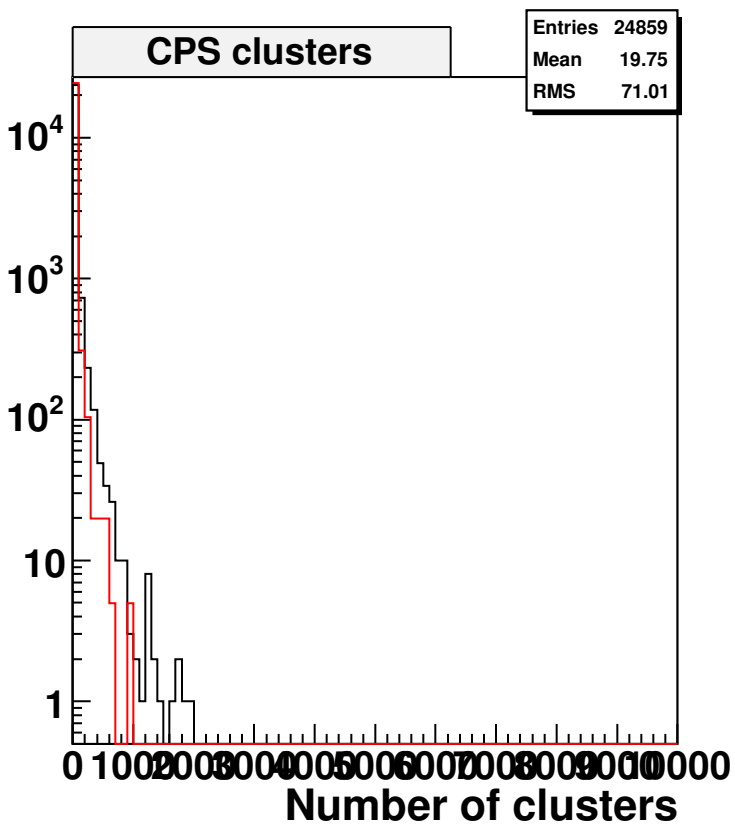


Jets (Cone R 0.7 (standard cuts, MET>30))

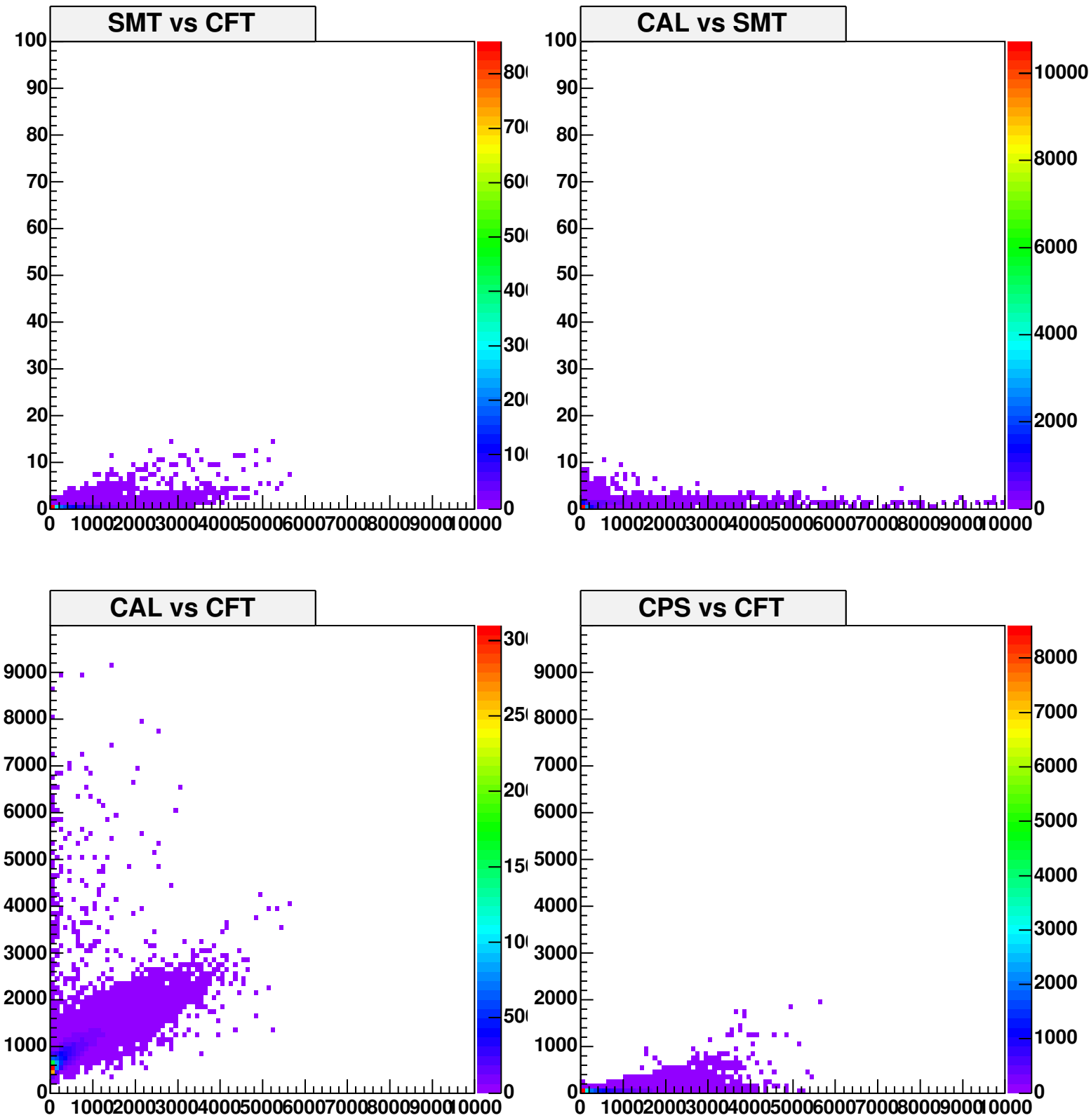




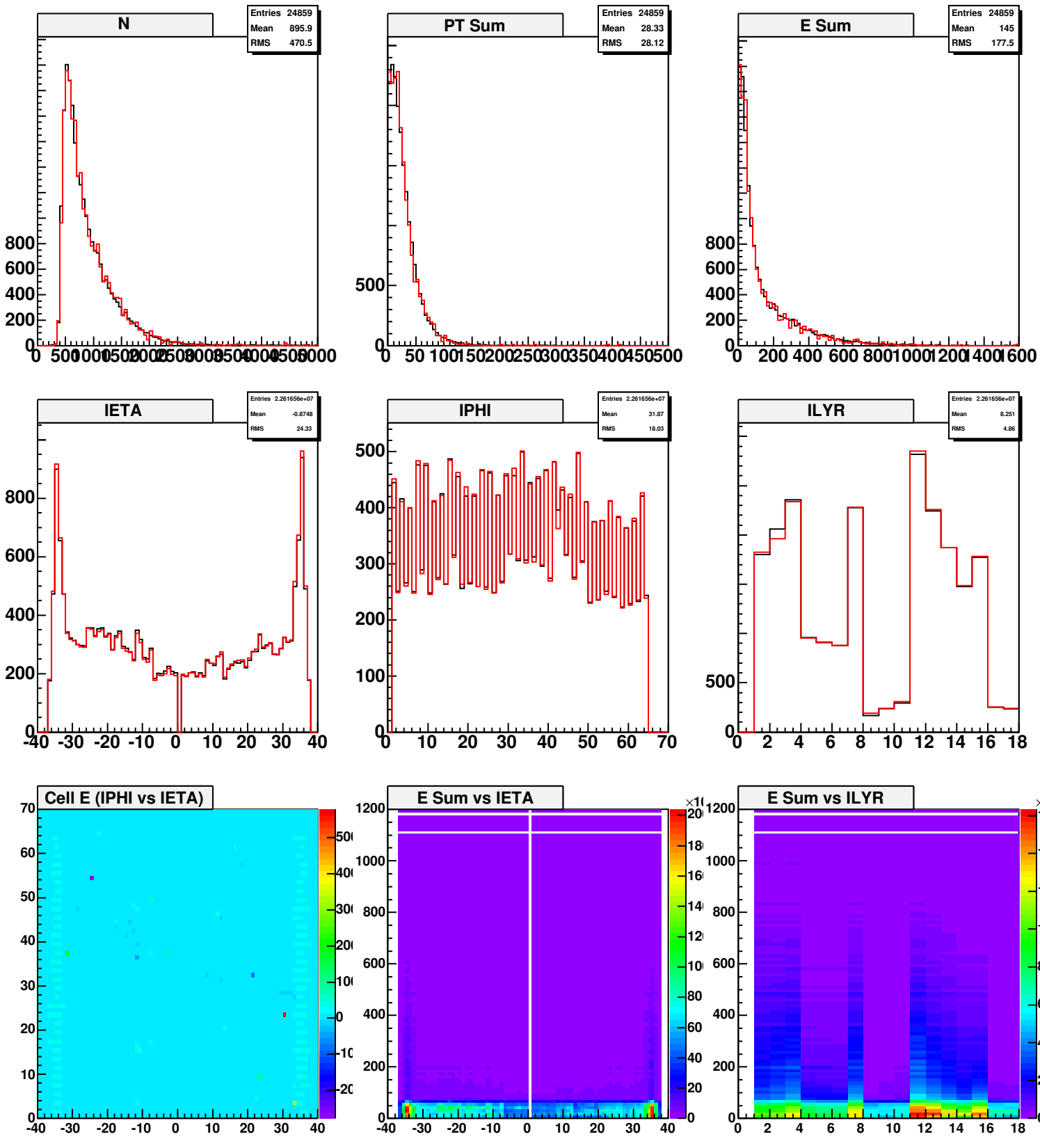




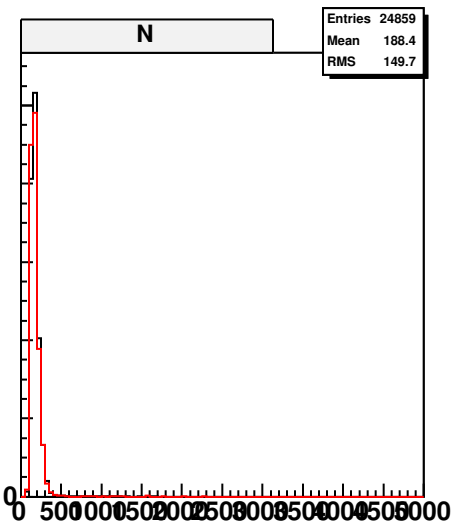
Detector Occupancy (Detector)

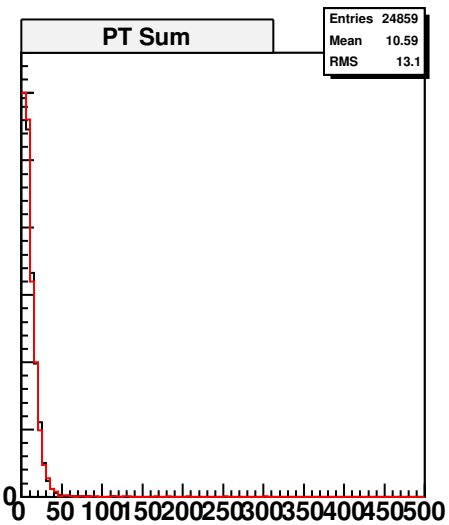


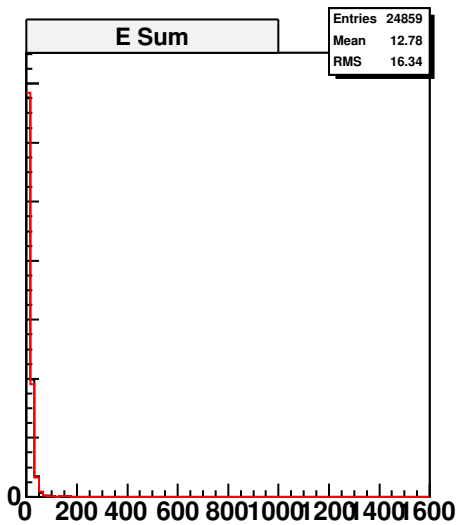
Detector Occupancy (Detector)

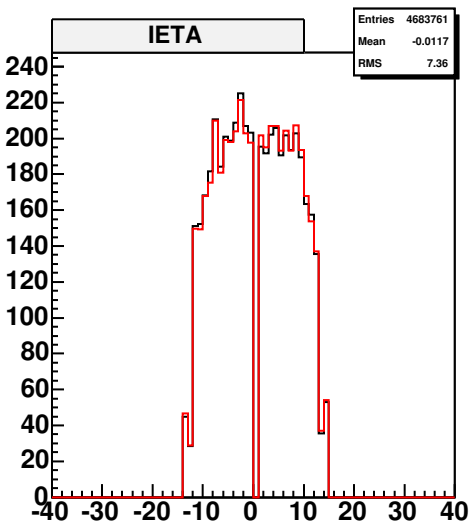


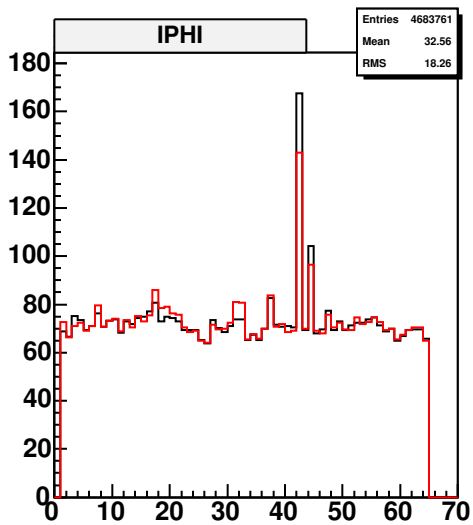
Calorimeter (All cells)

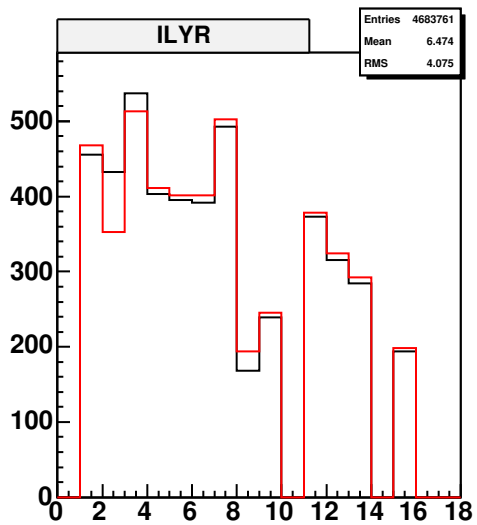


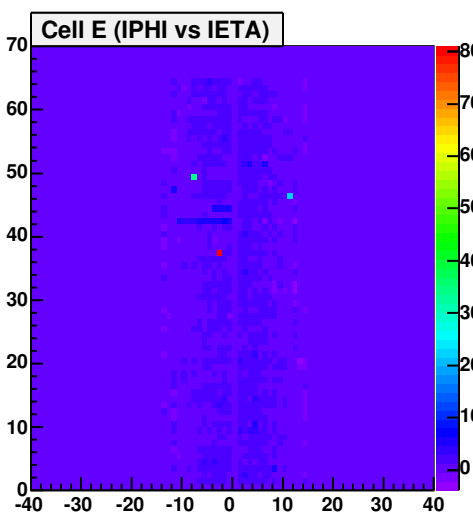


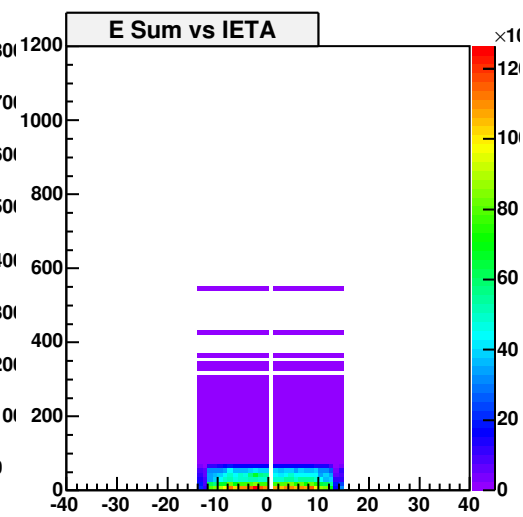


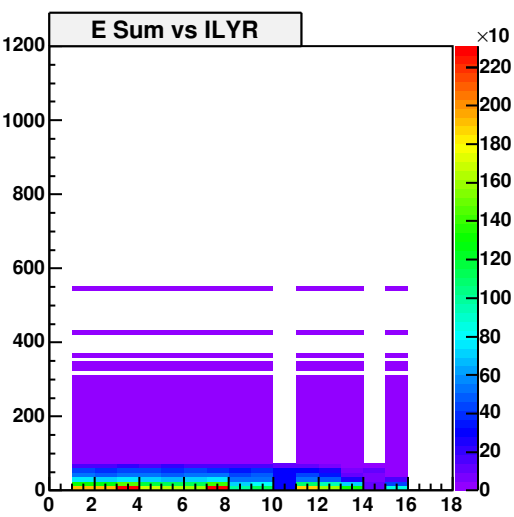




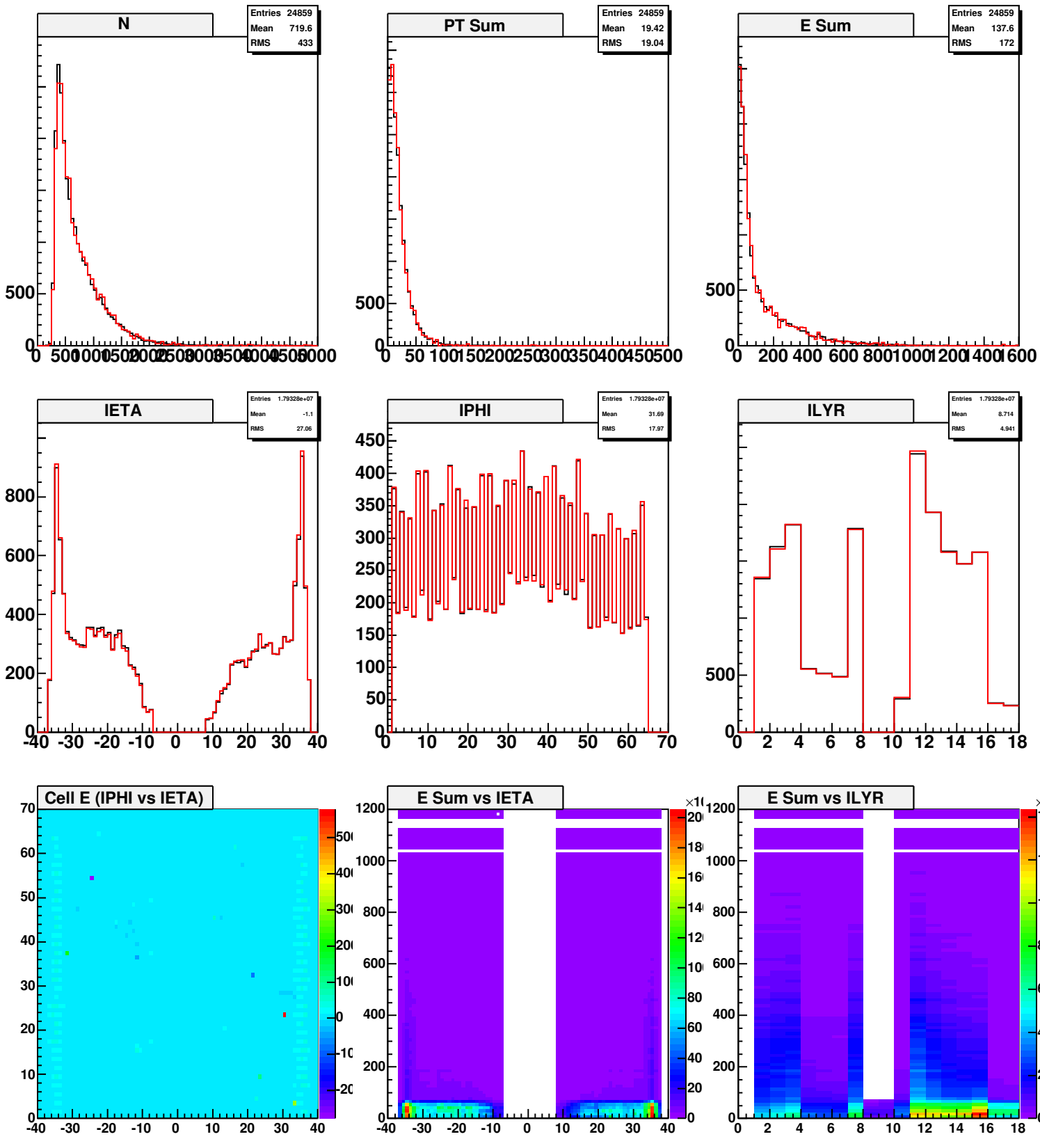




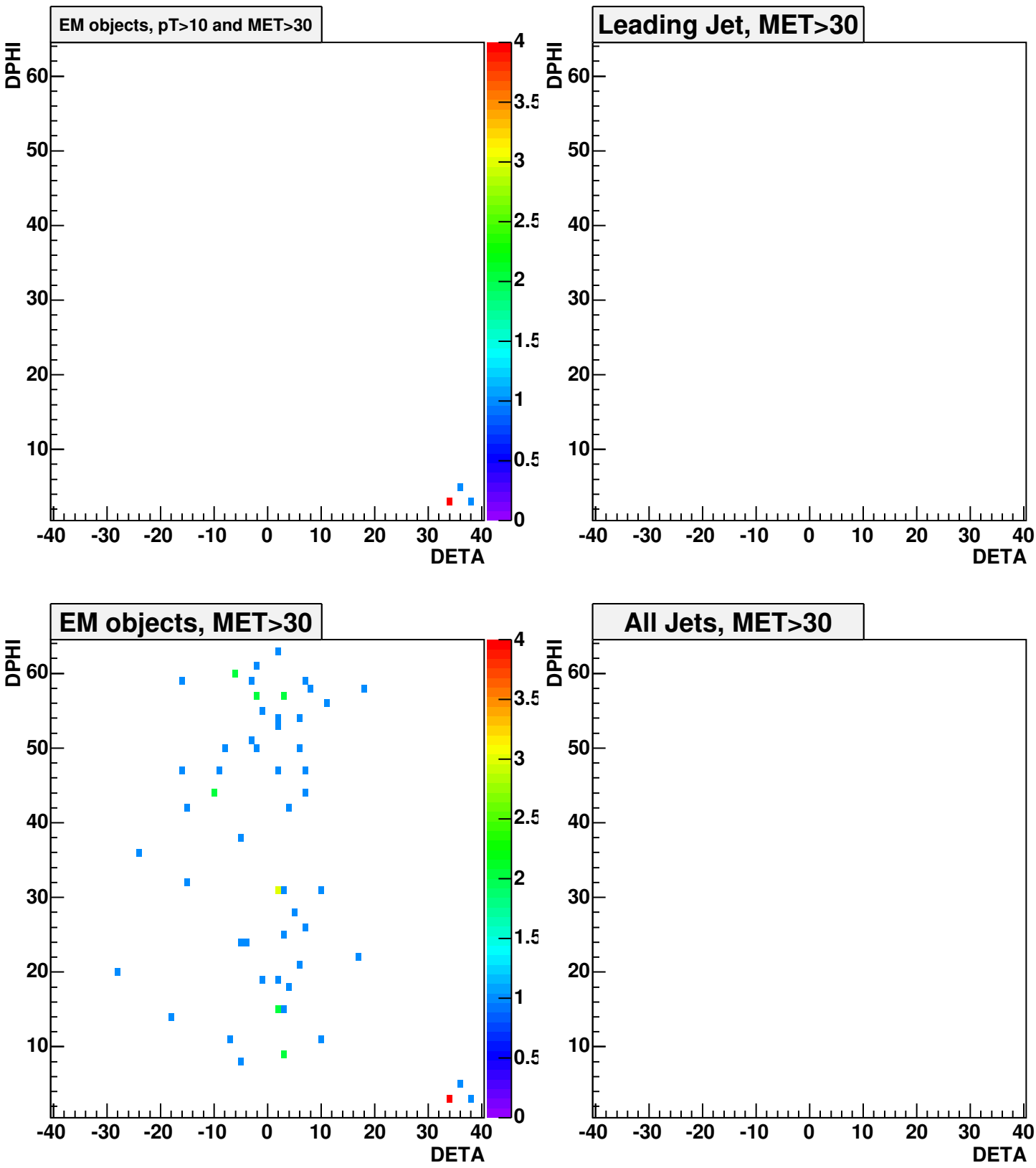




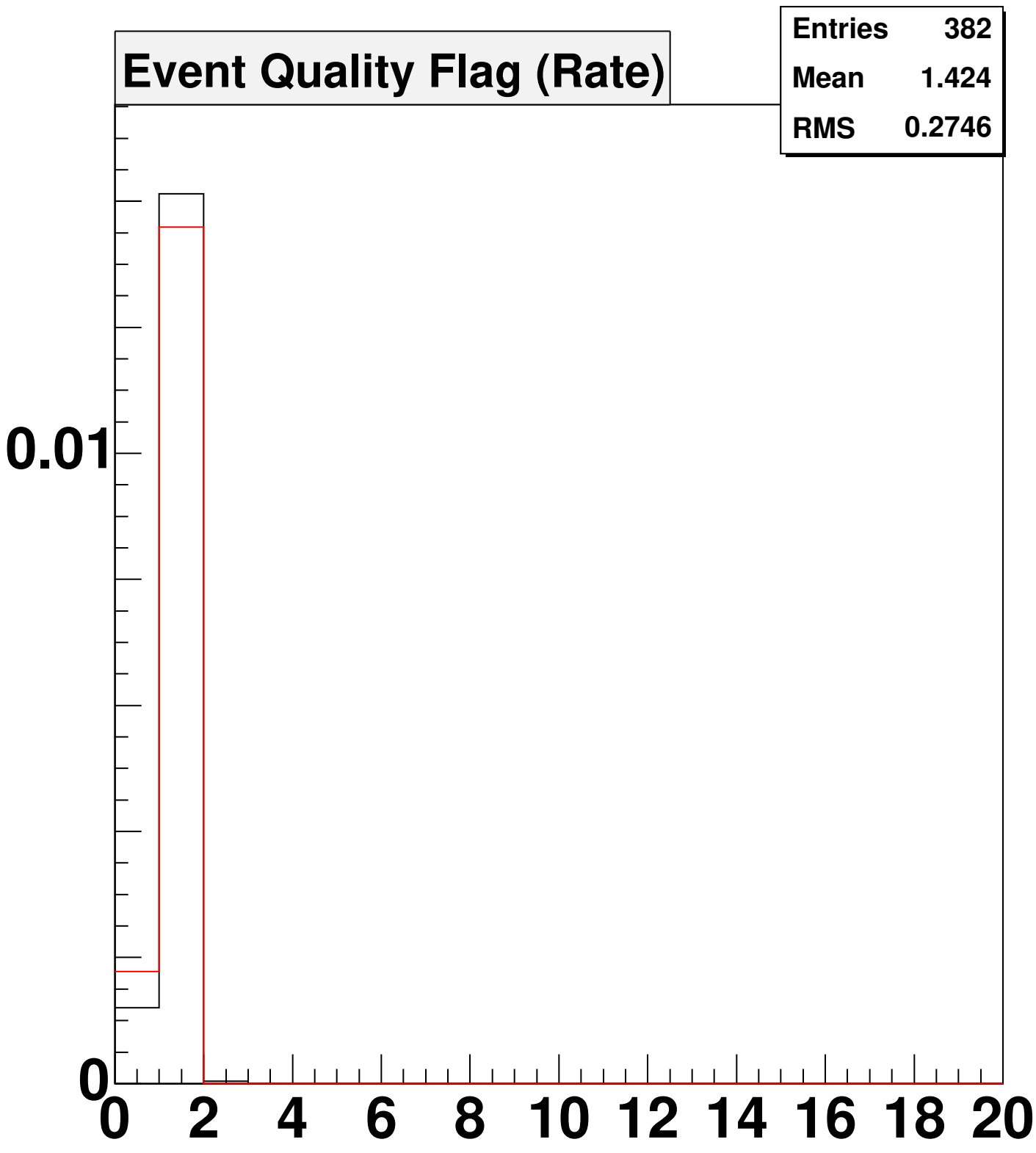
Calorimeter (All CC cells)

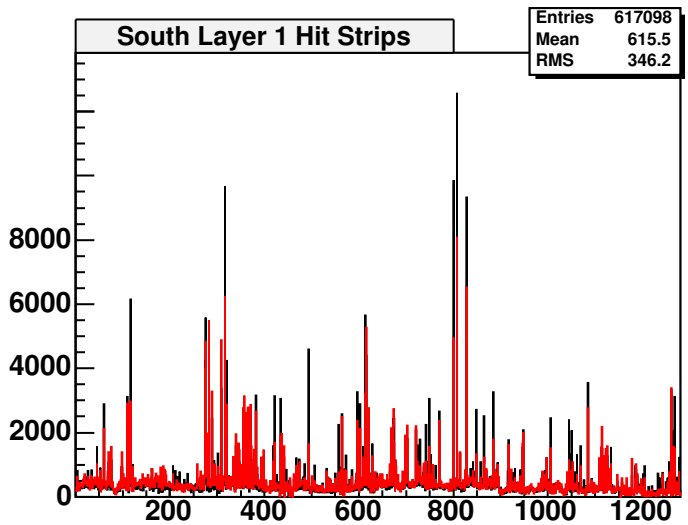


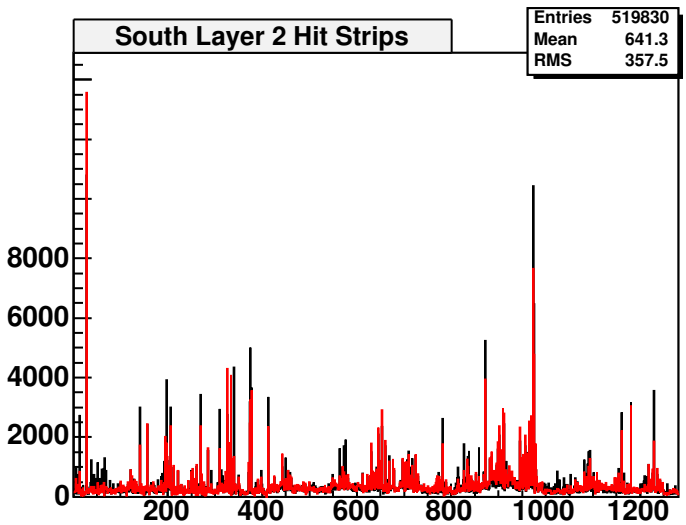
Calorimeter (All EC cells)

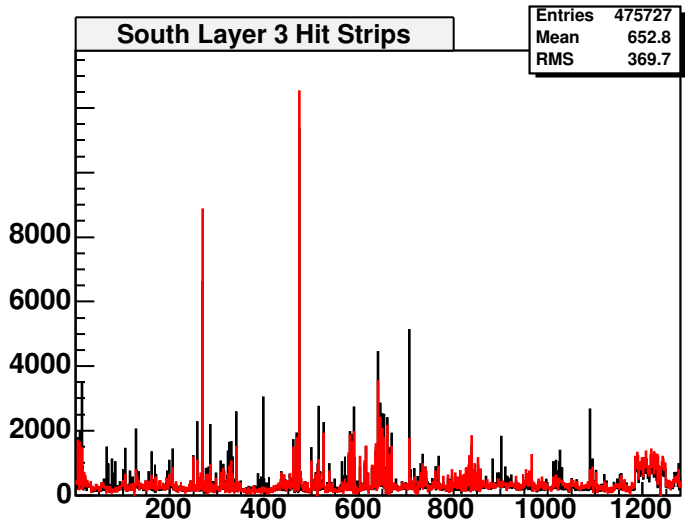


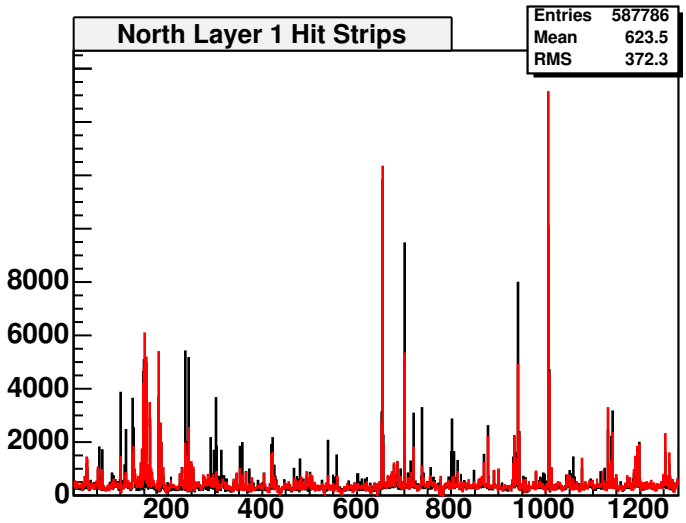
Cal Objects with MET>30 (All cells)

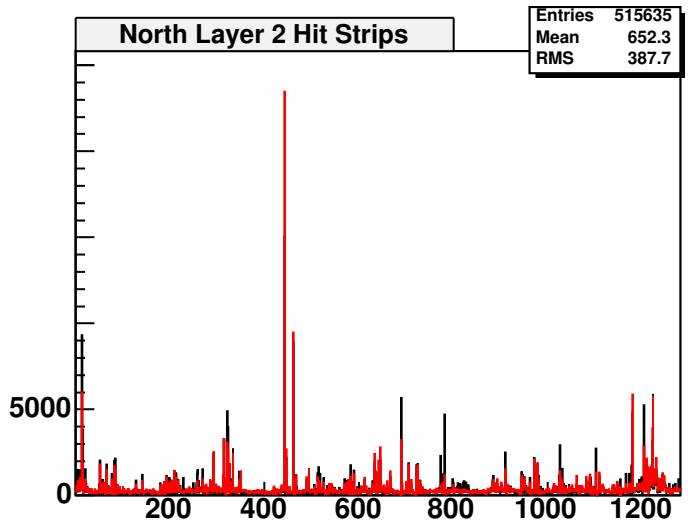

Event Quality Flag (Rate)
Entries 382
Mean 1.424
RMS 0.2746
0.01
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

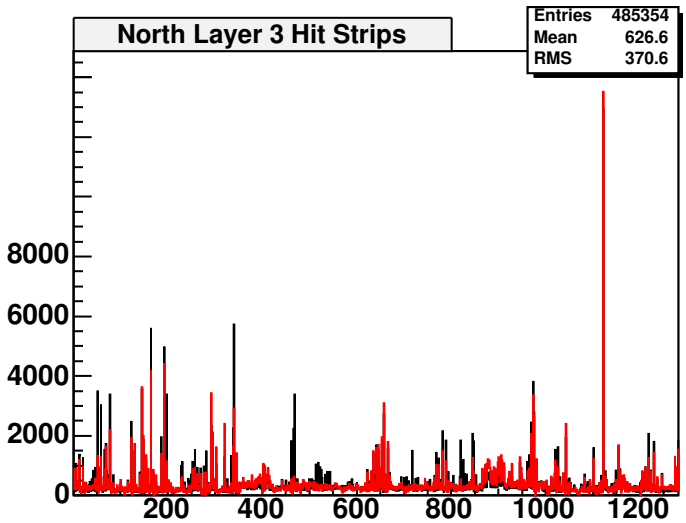




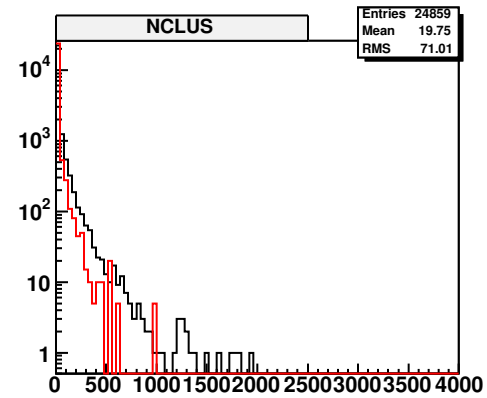


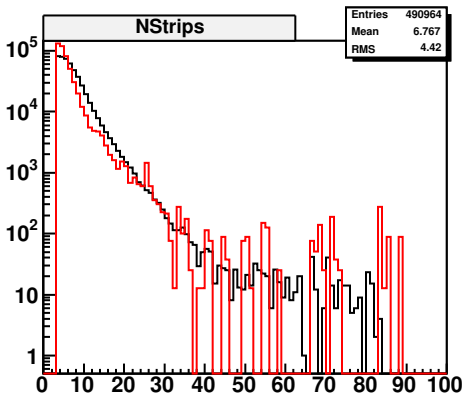


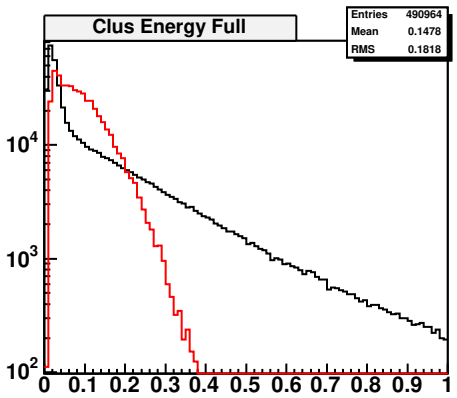


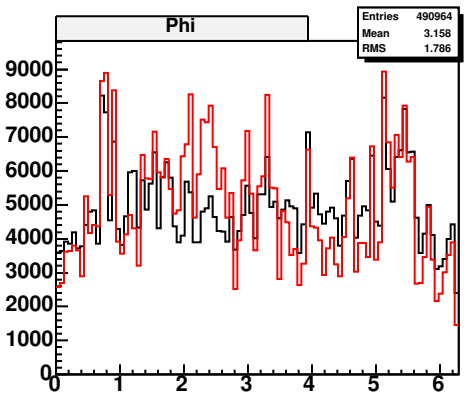


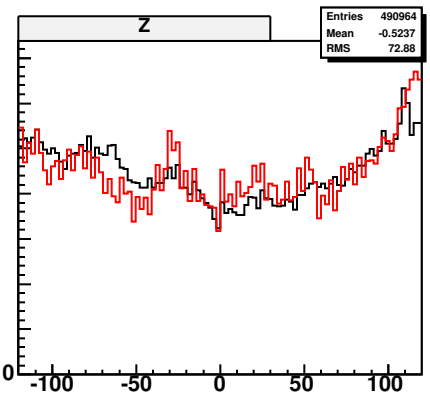
CPS Hit Strips (All Clusters)

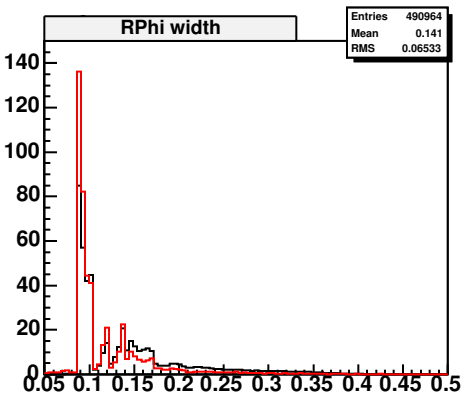


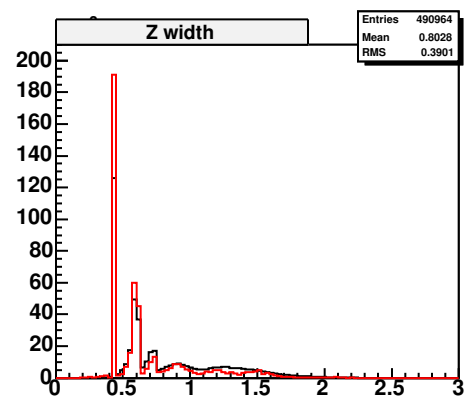


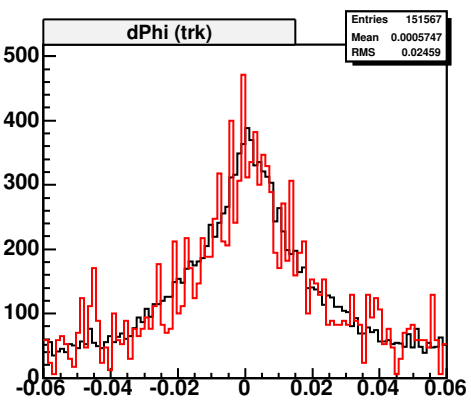


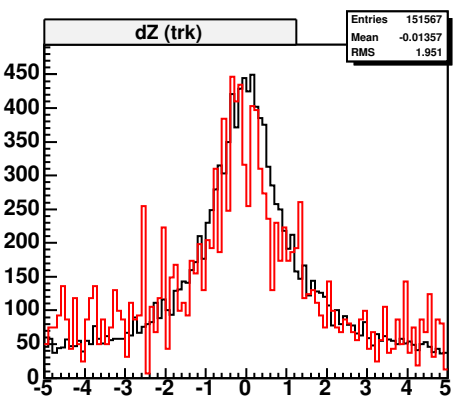


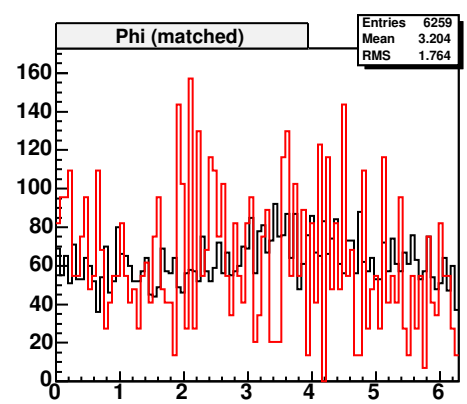


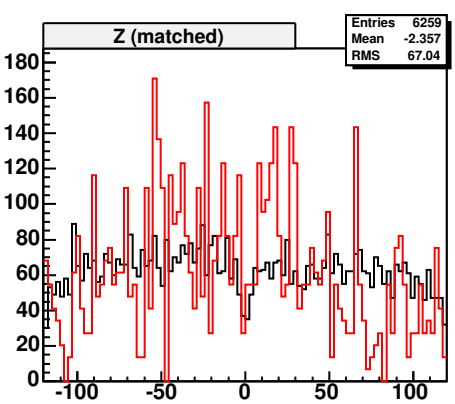




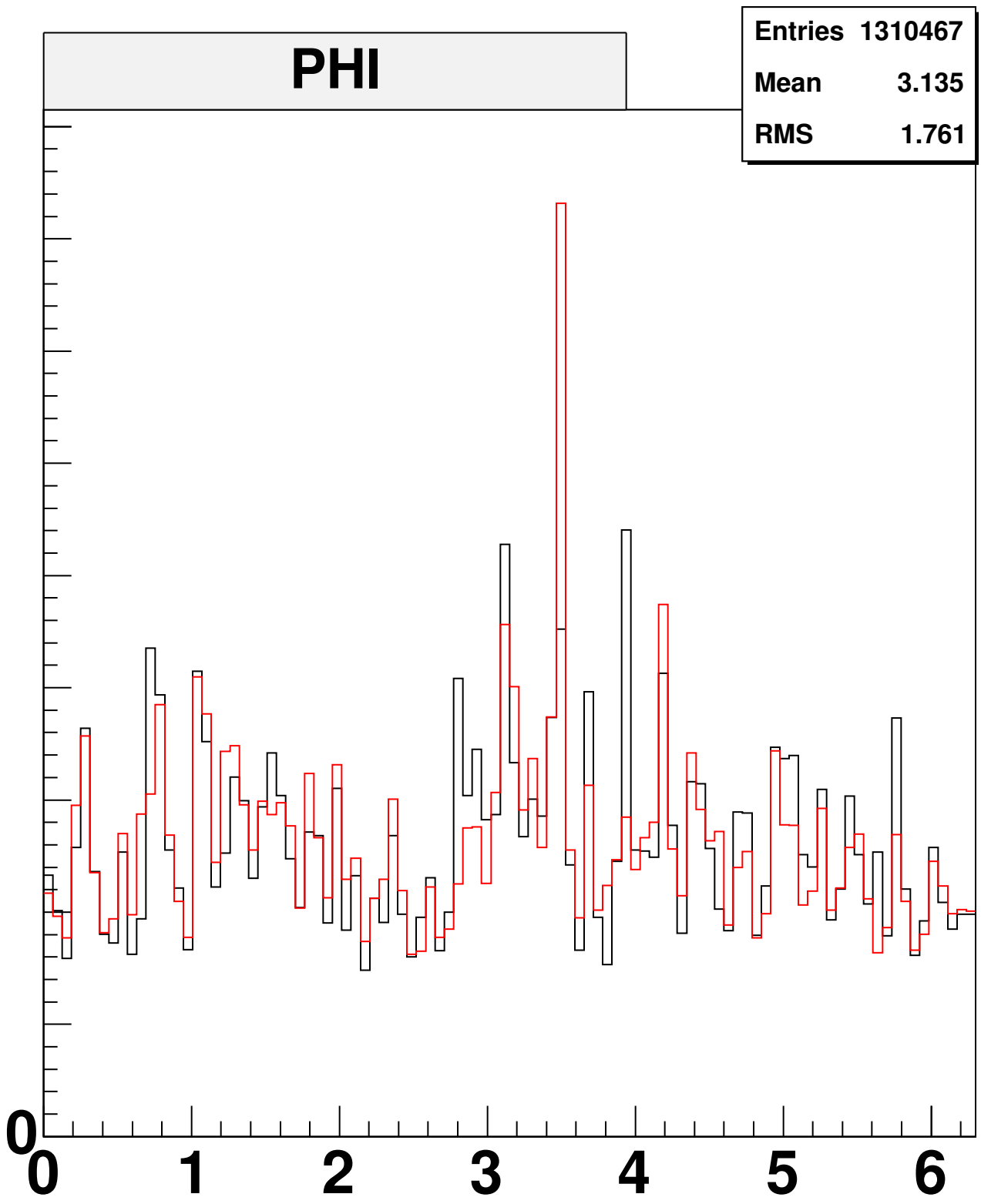


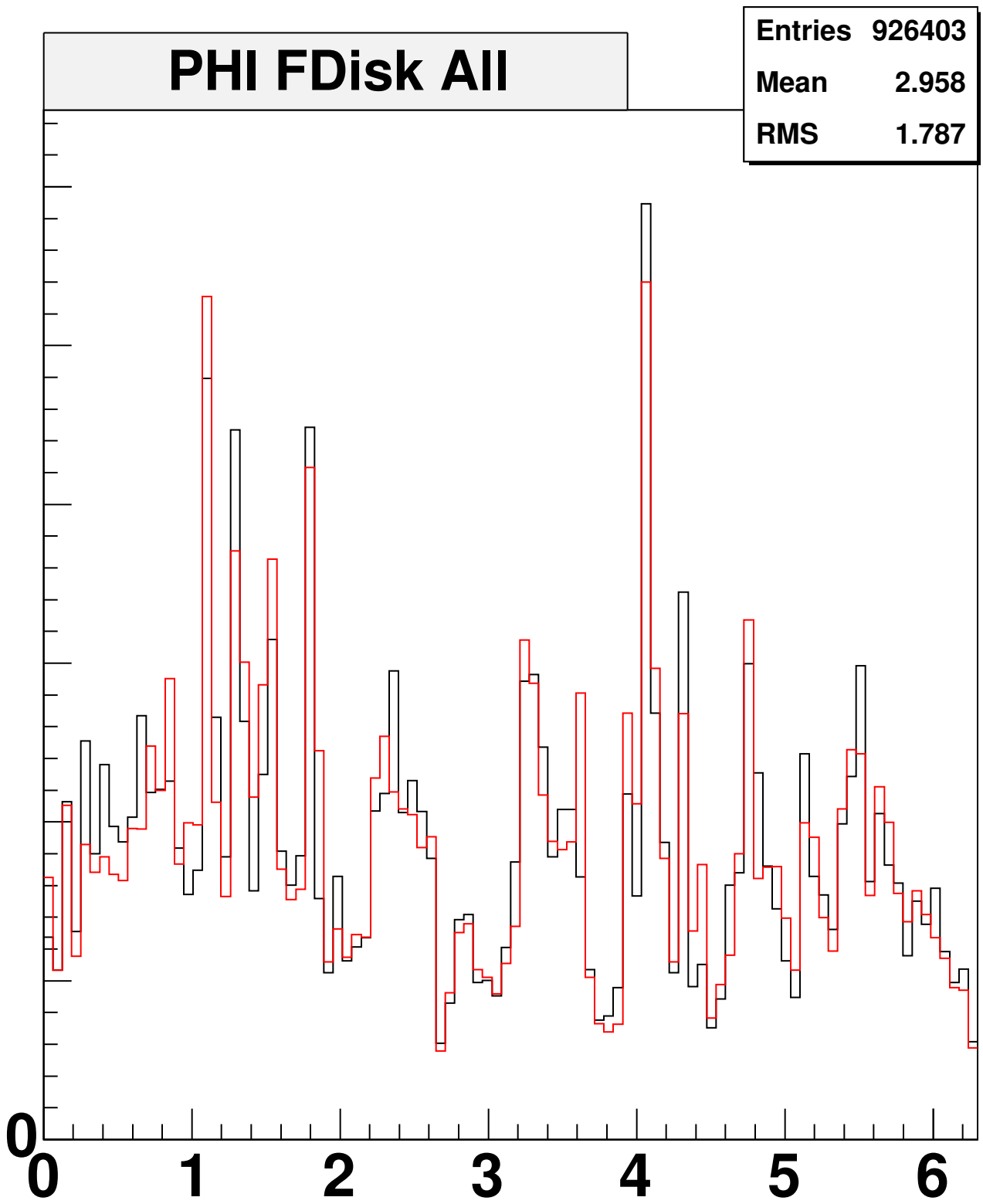


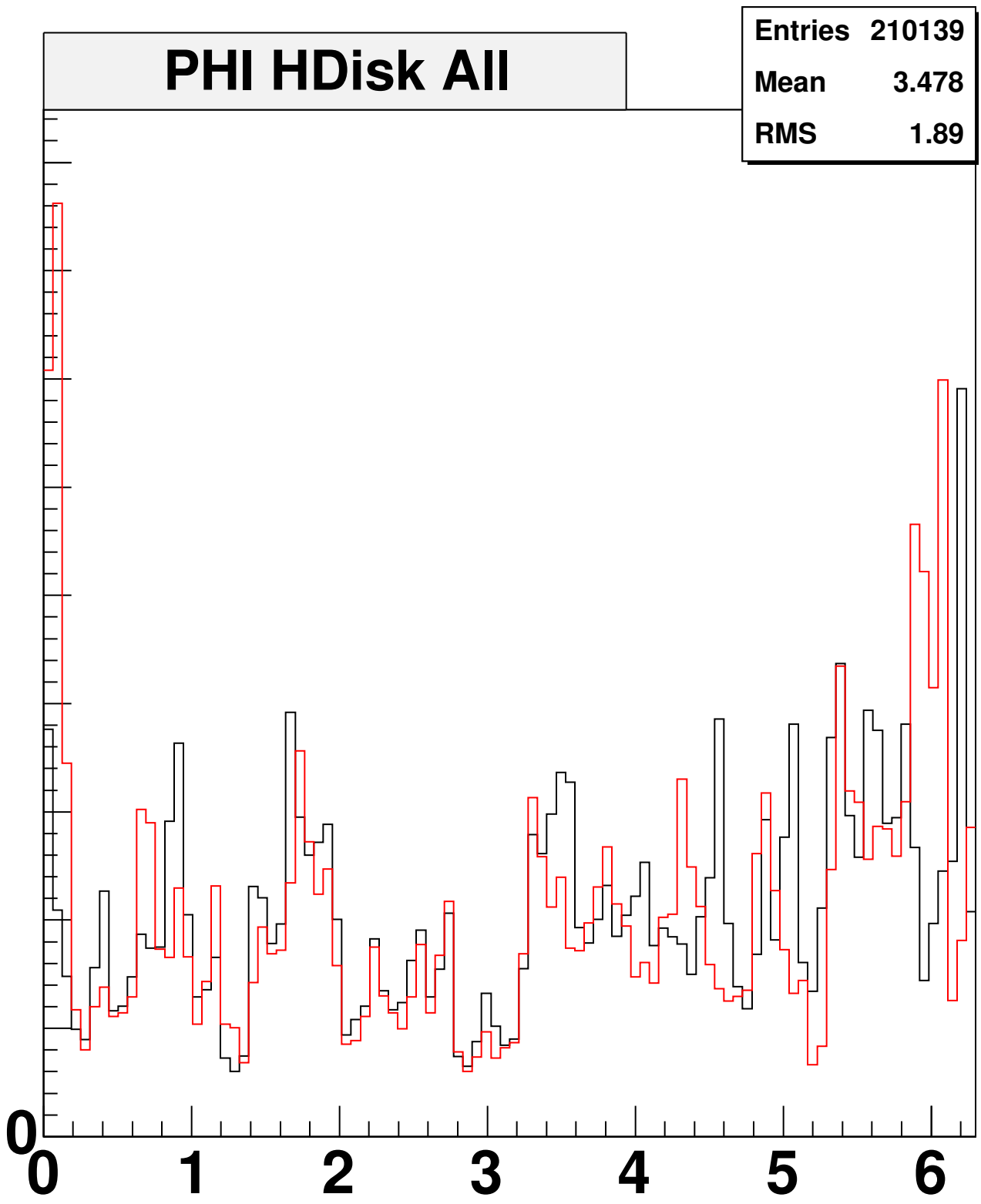


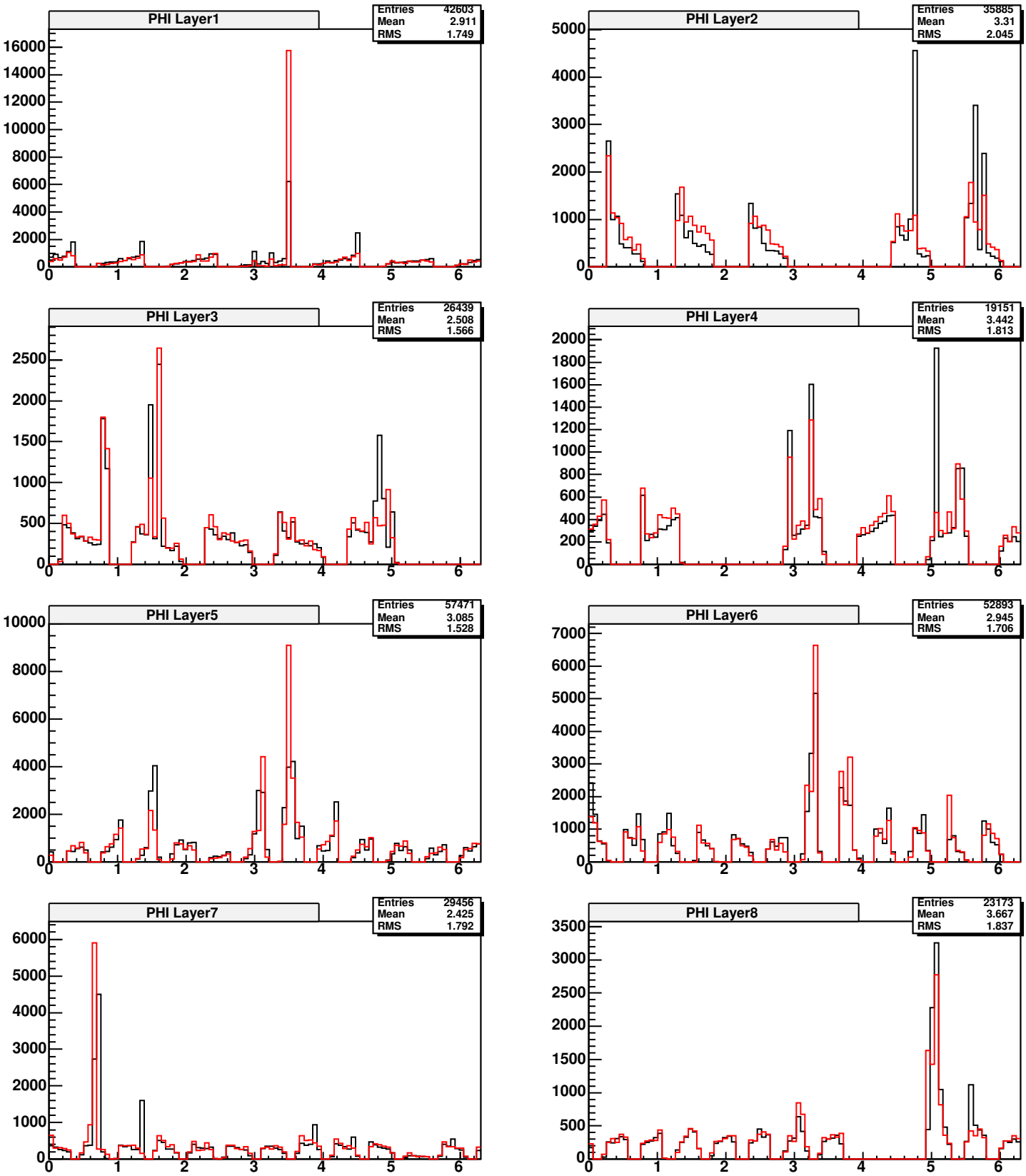


CPS Clusters (All Clusters)

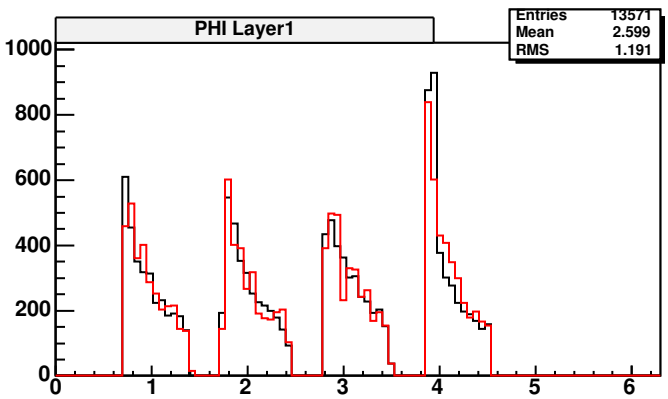

PHI
Entries 1310467
Mean 3.135
RMS 1.761
0
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

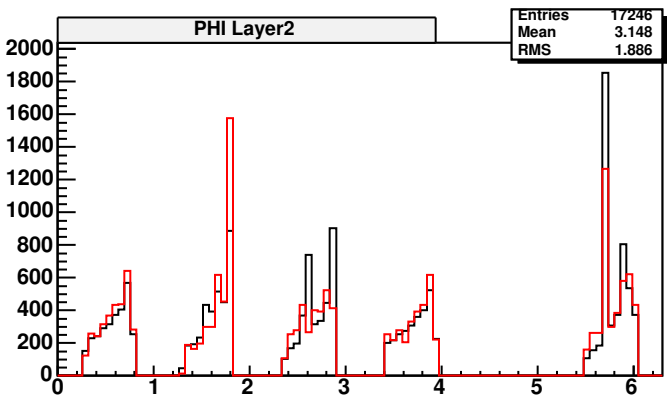

PHI FDisk All
Entries 926403
Mean 2.958
RMS 1.787
0
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

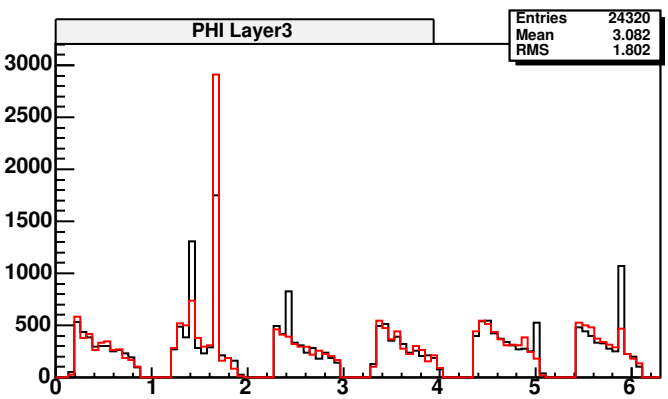

PHI HDisk All
Entries 210139
Mean 3.478
RMS 1.89
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

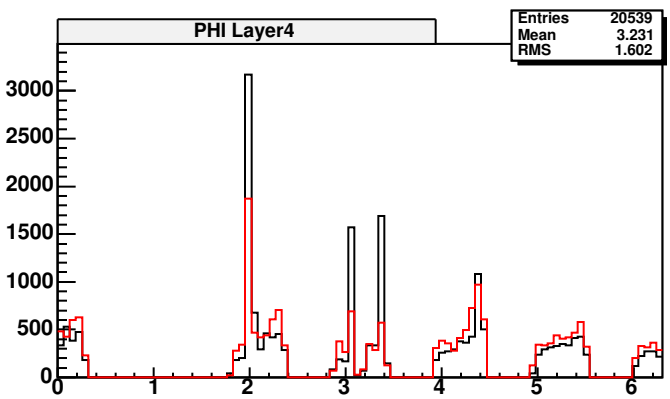


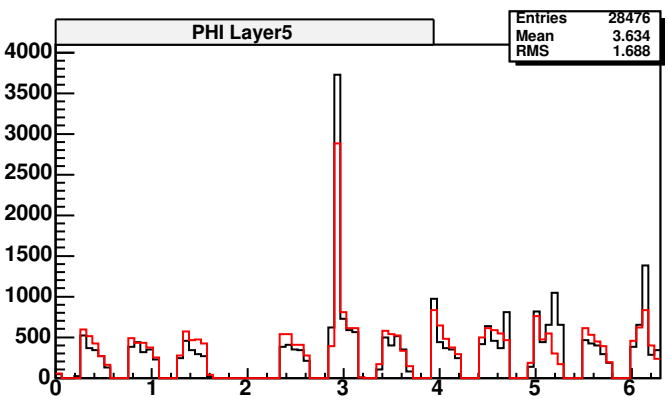
SmtClusters (ClustrBar1)

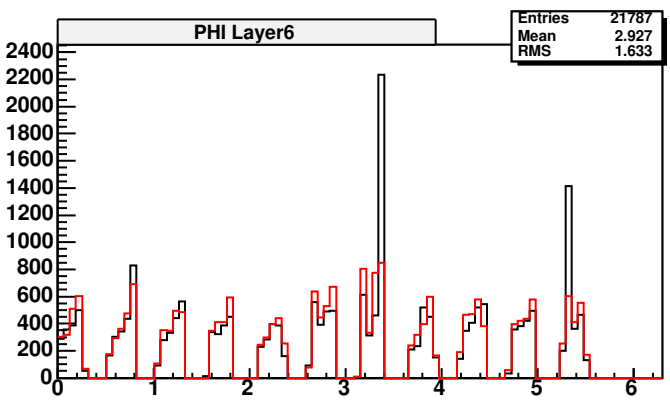


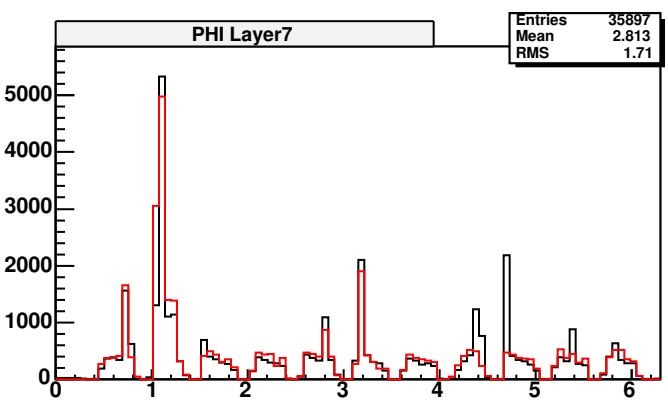


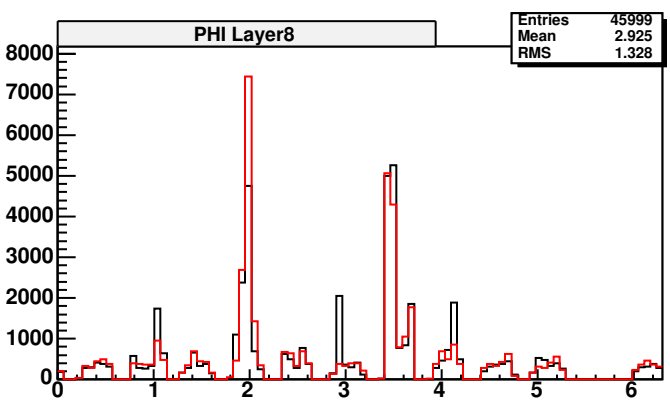




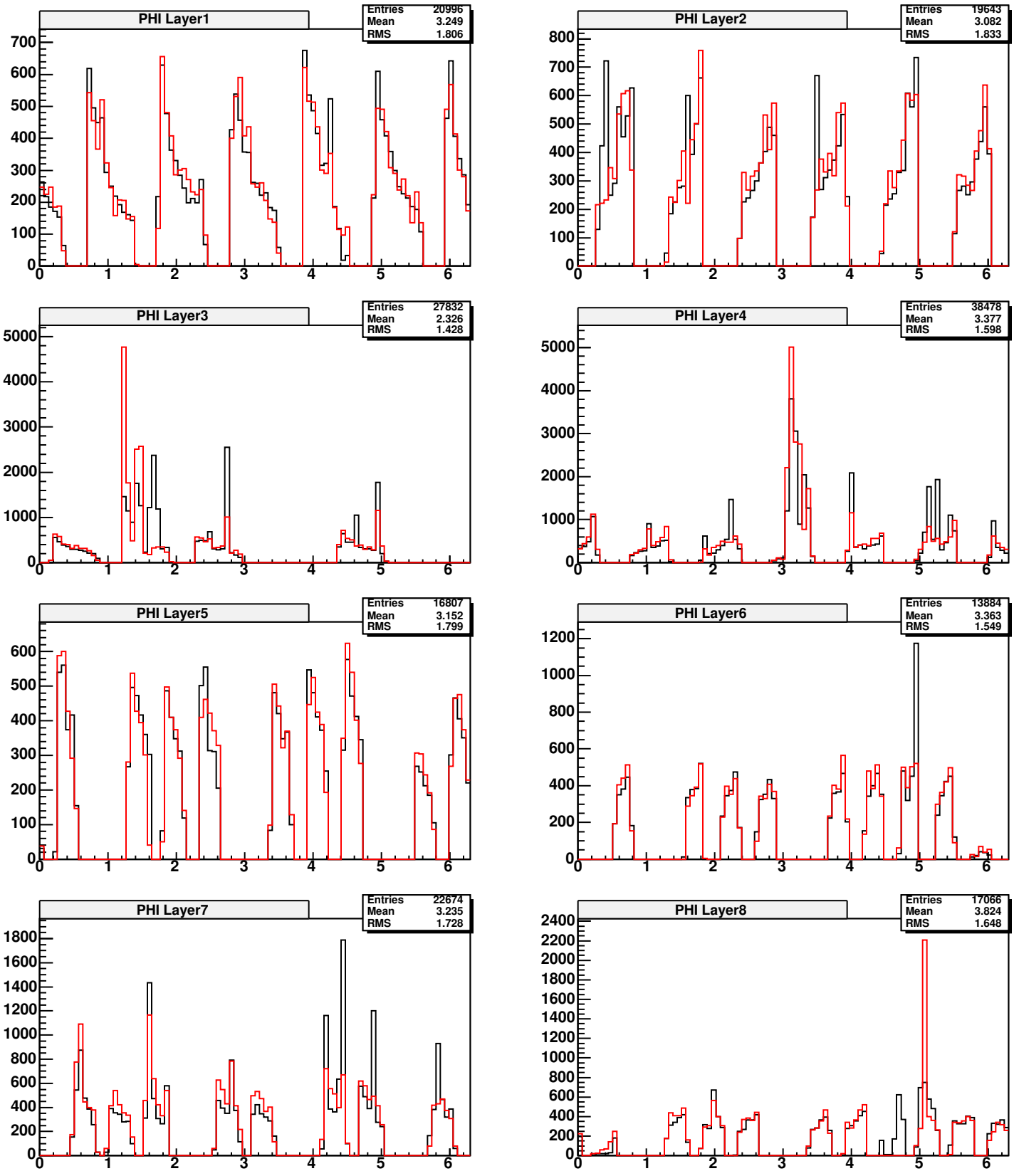




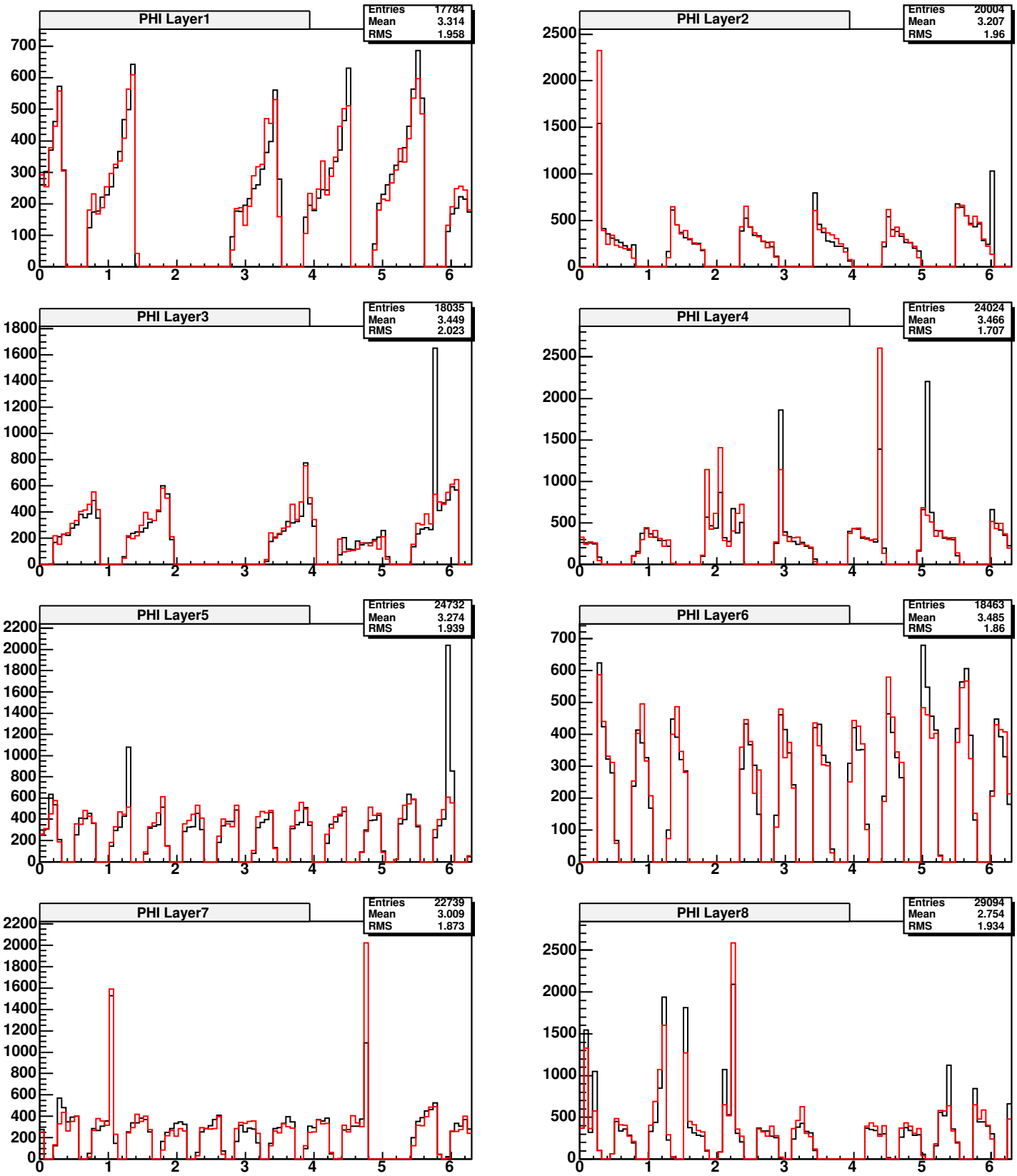




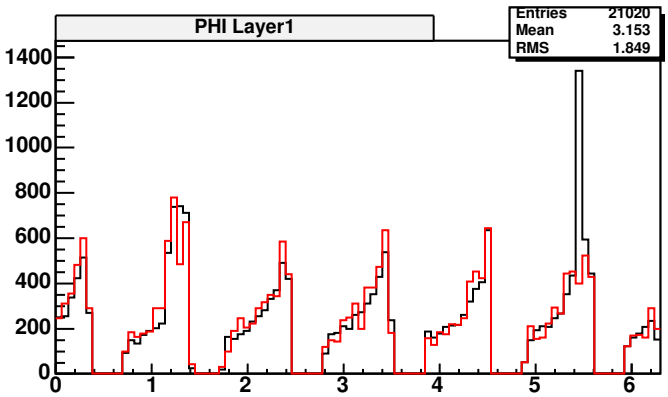
SmtClusters (ClustrBar2)

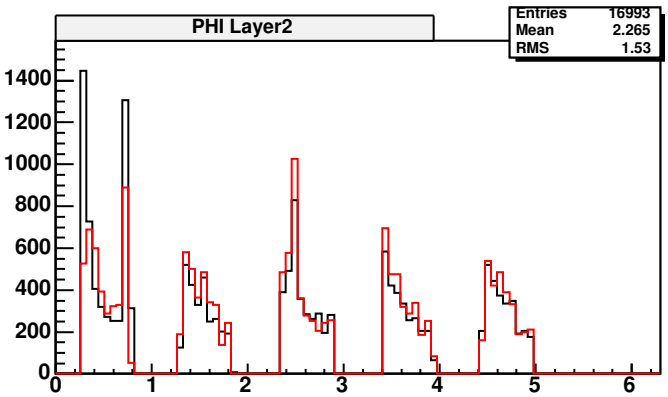


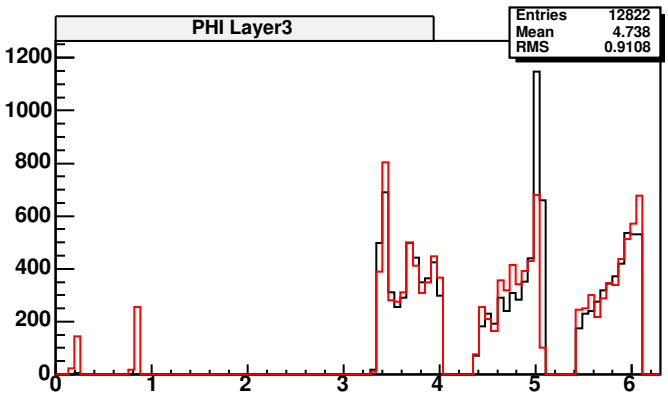
SmtClusters (ClustrBar3)

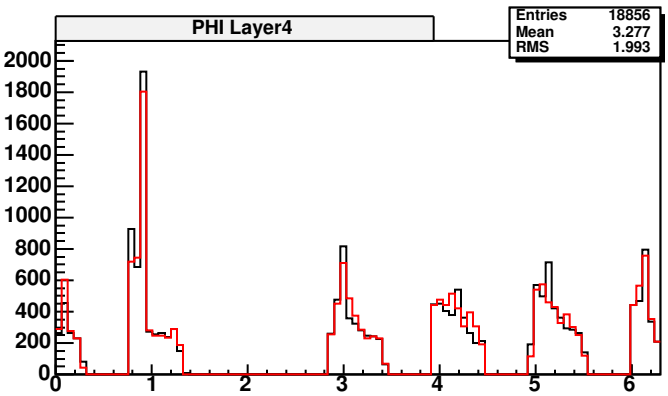


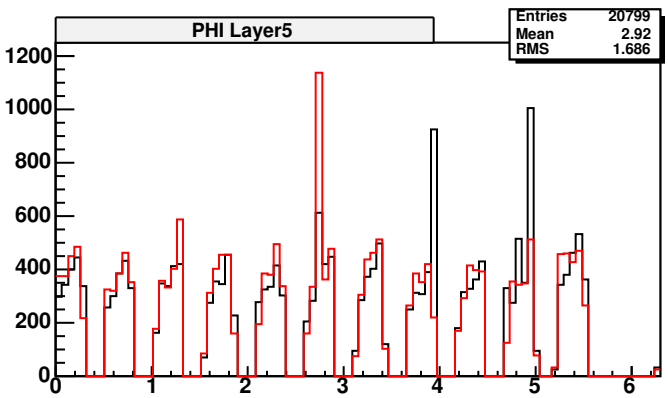
SmtClusters (ClustrBar4)

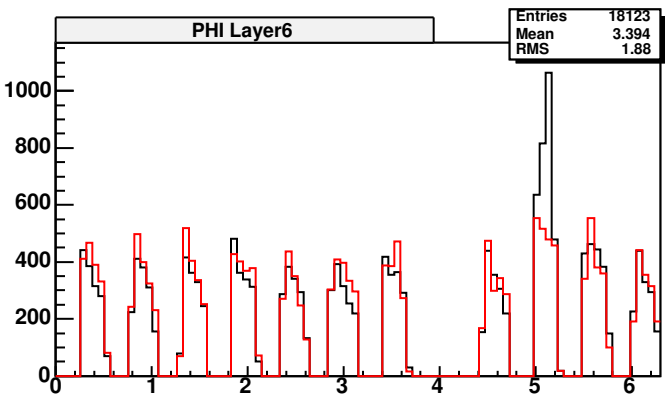


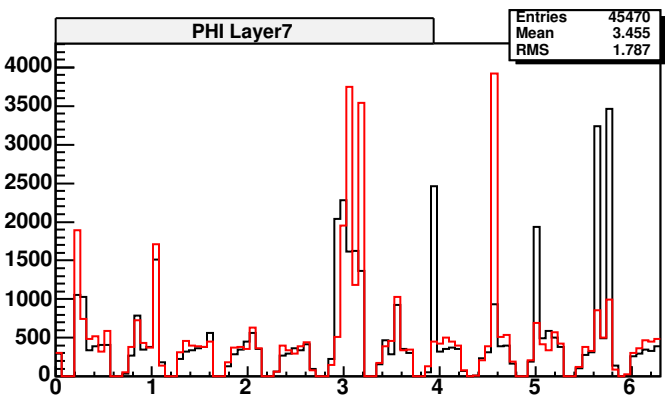


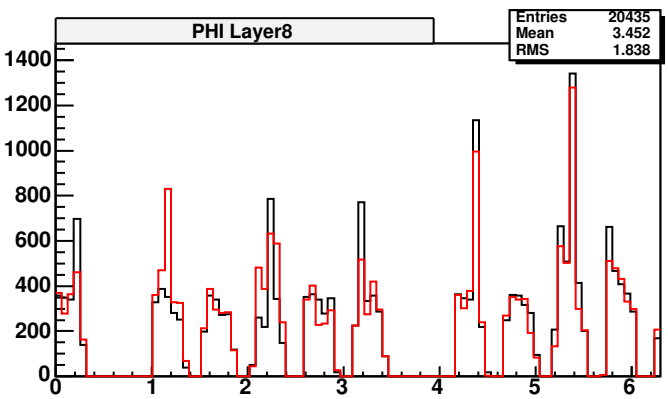




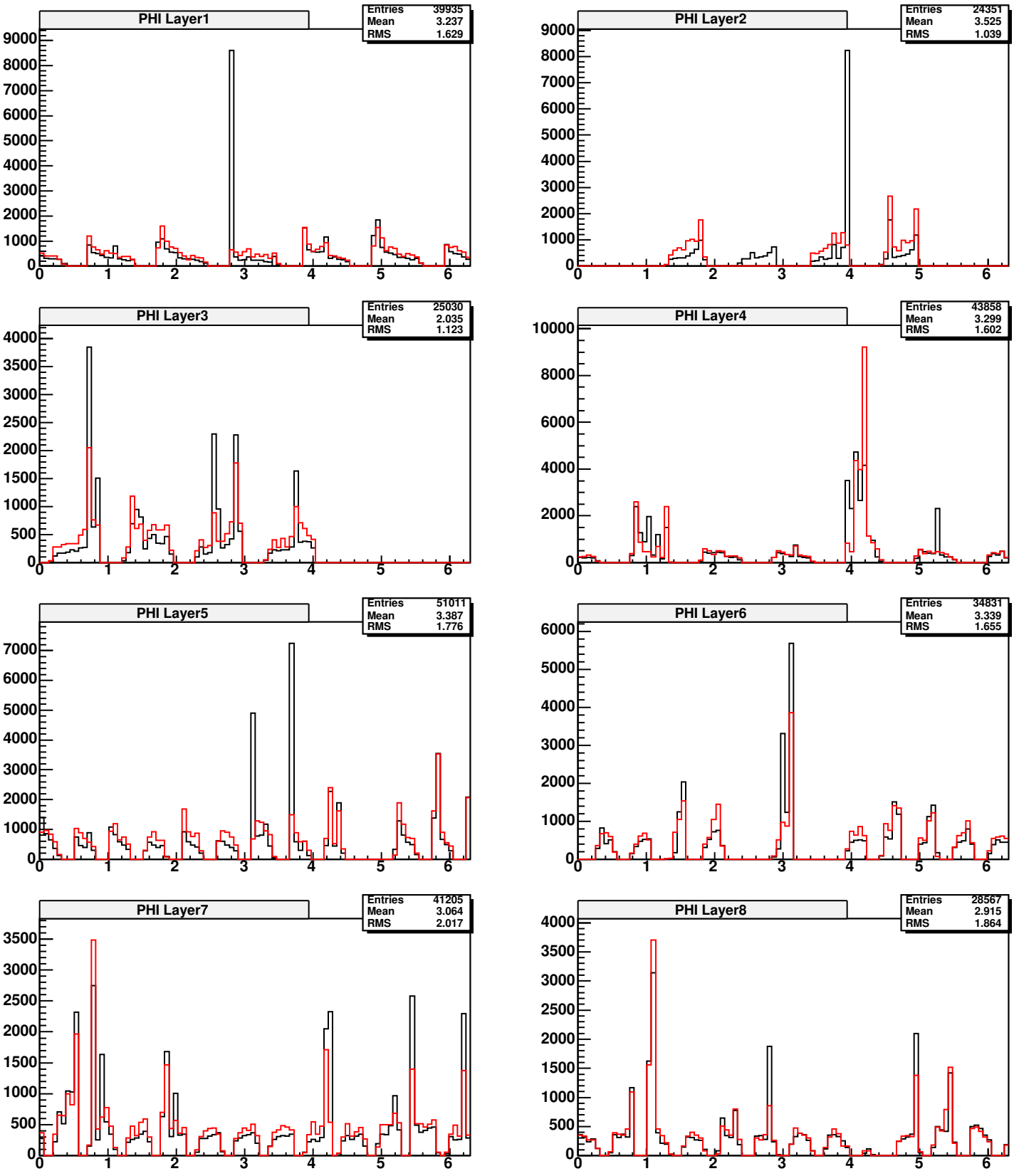




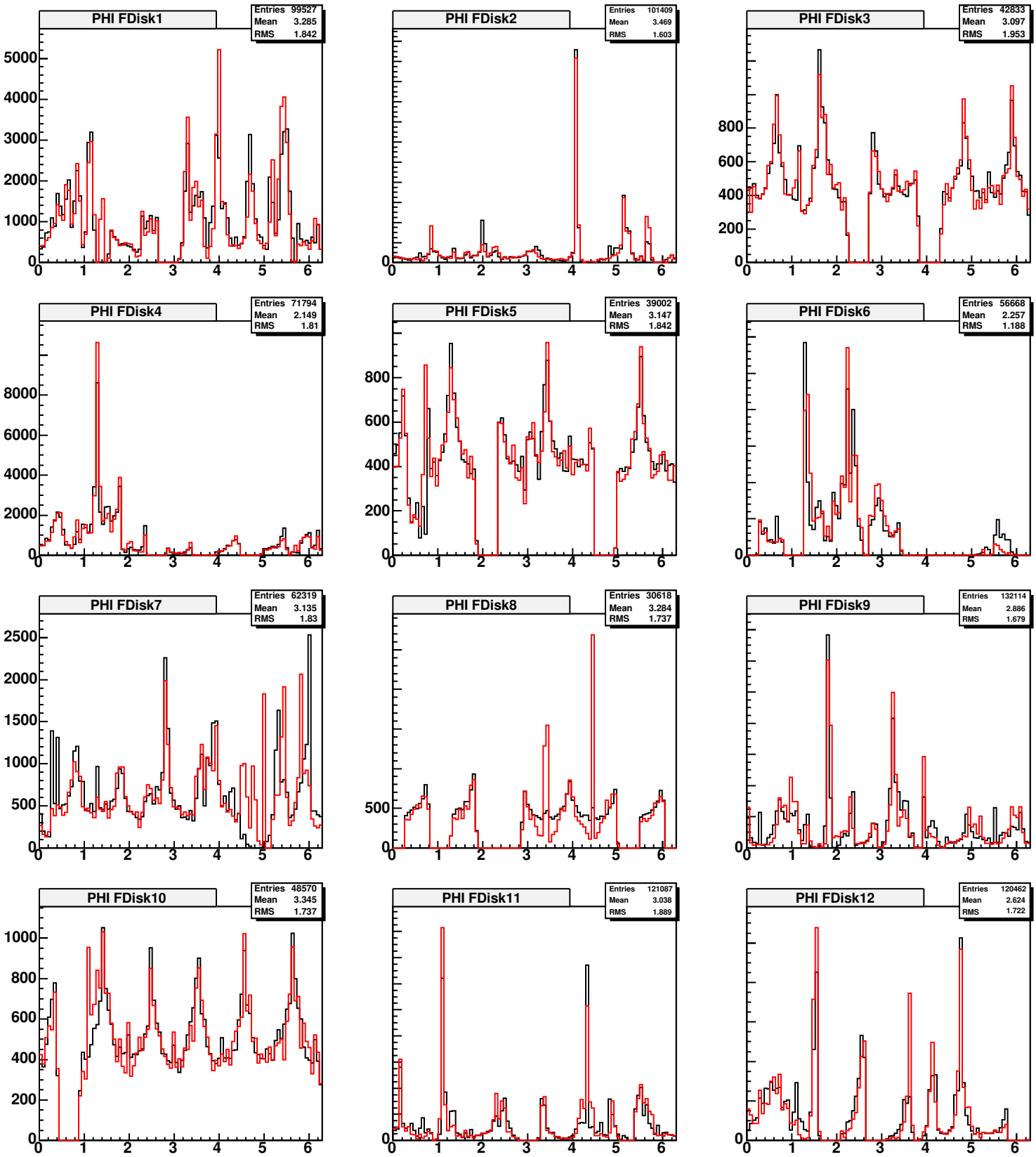




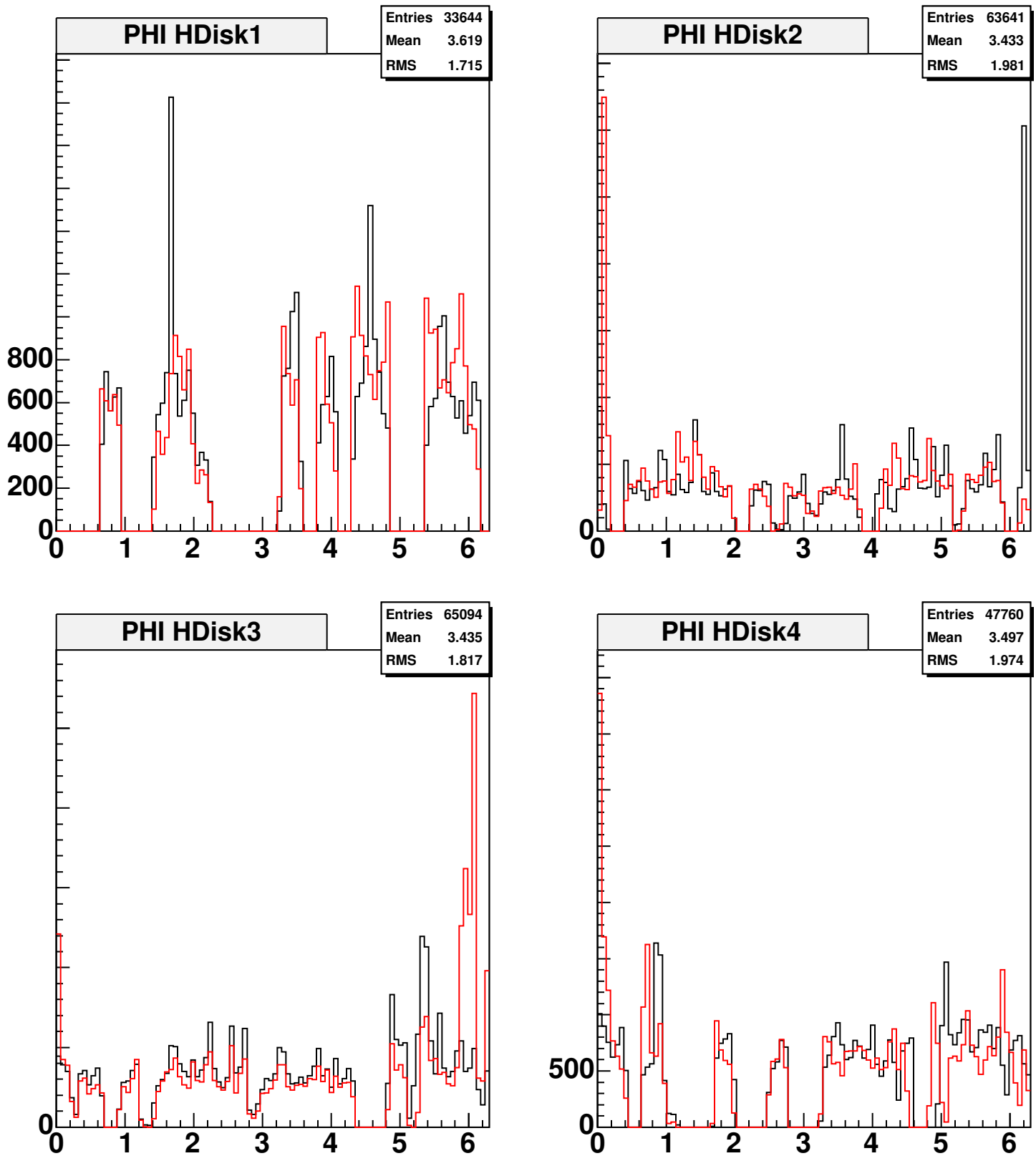
SmtClusters (ClustrBar5)

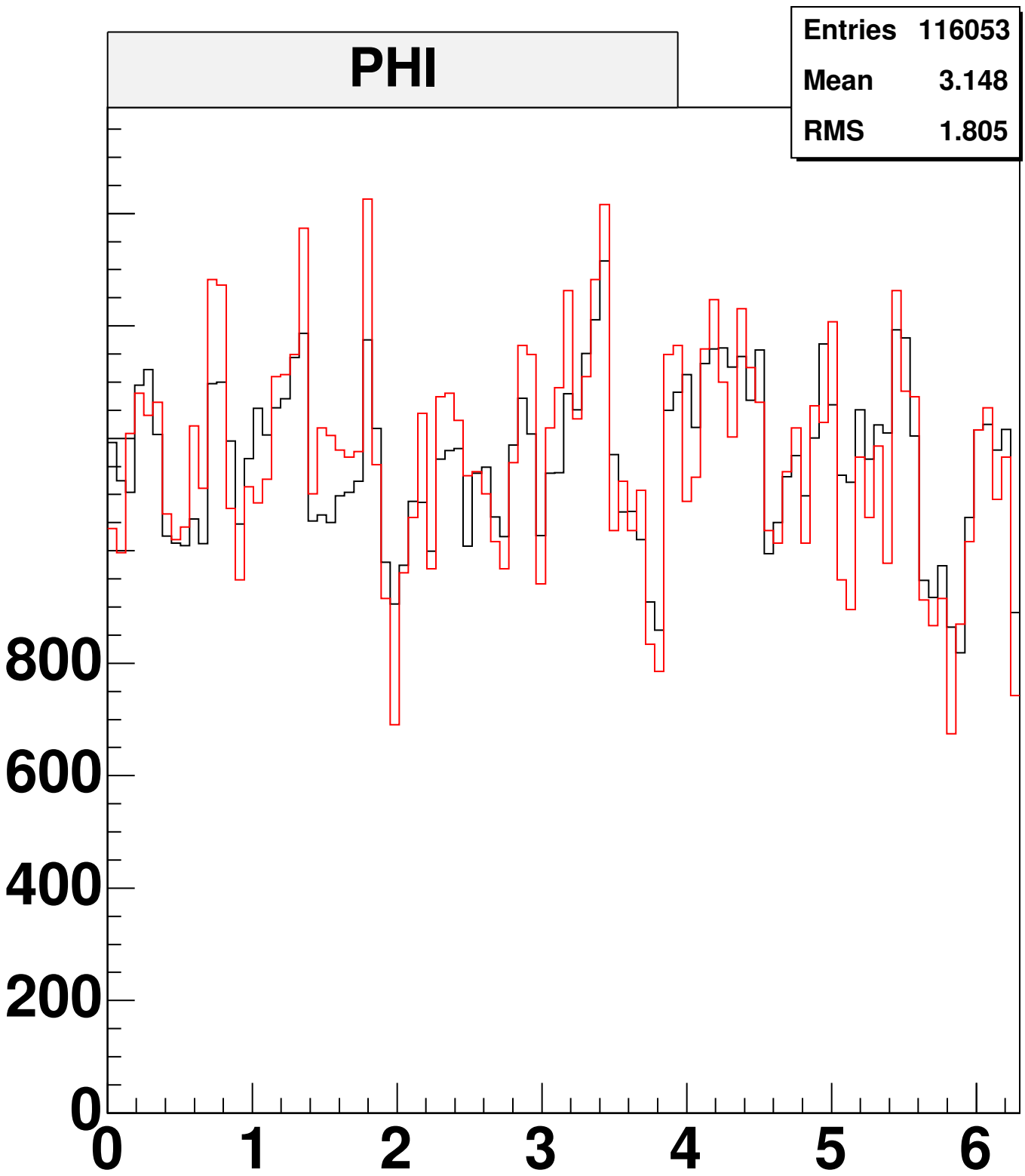


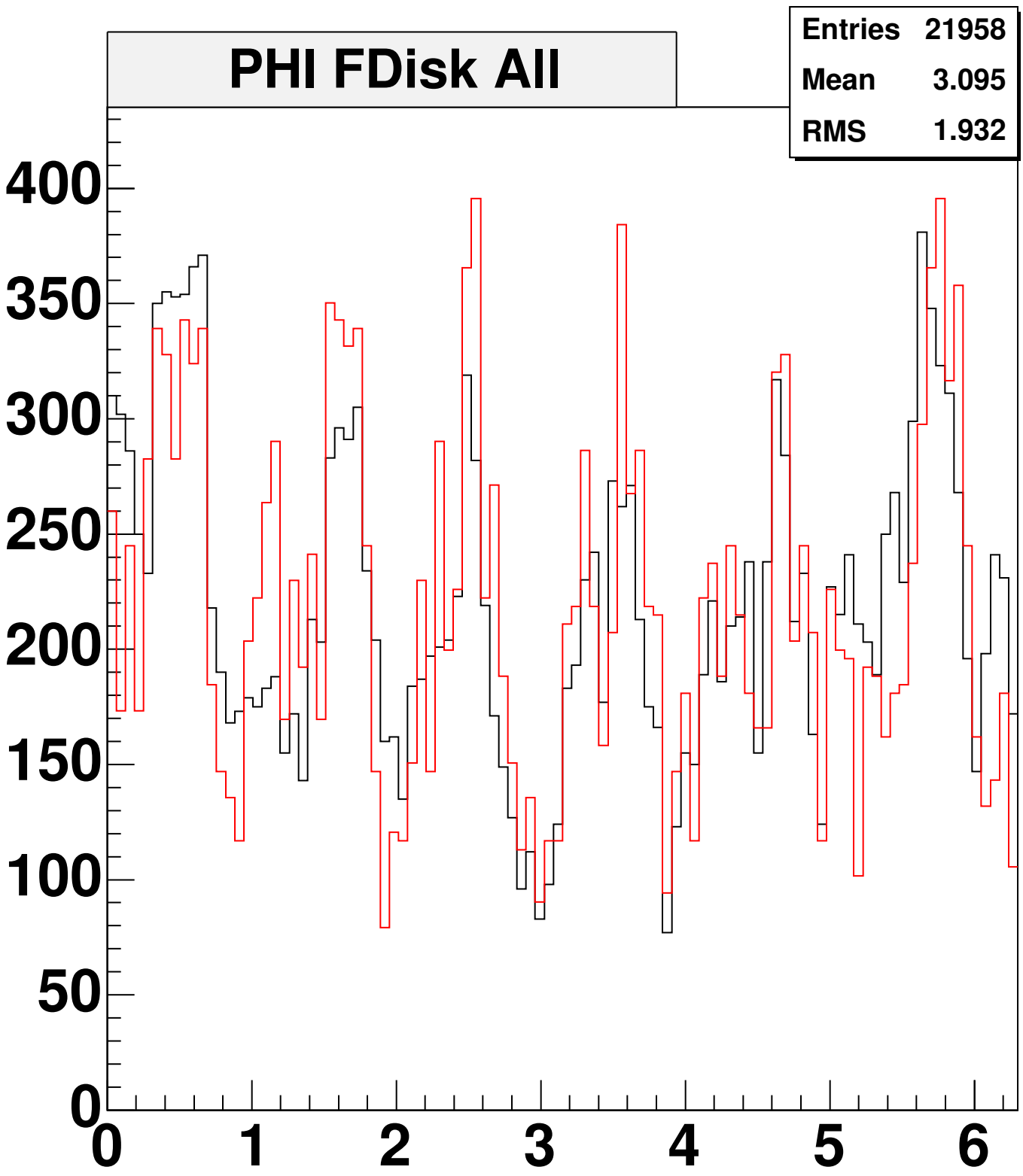
SmtClusters (ClustrBar6)

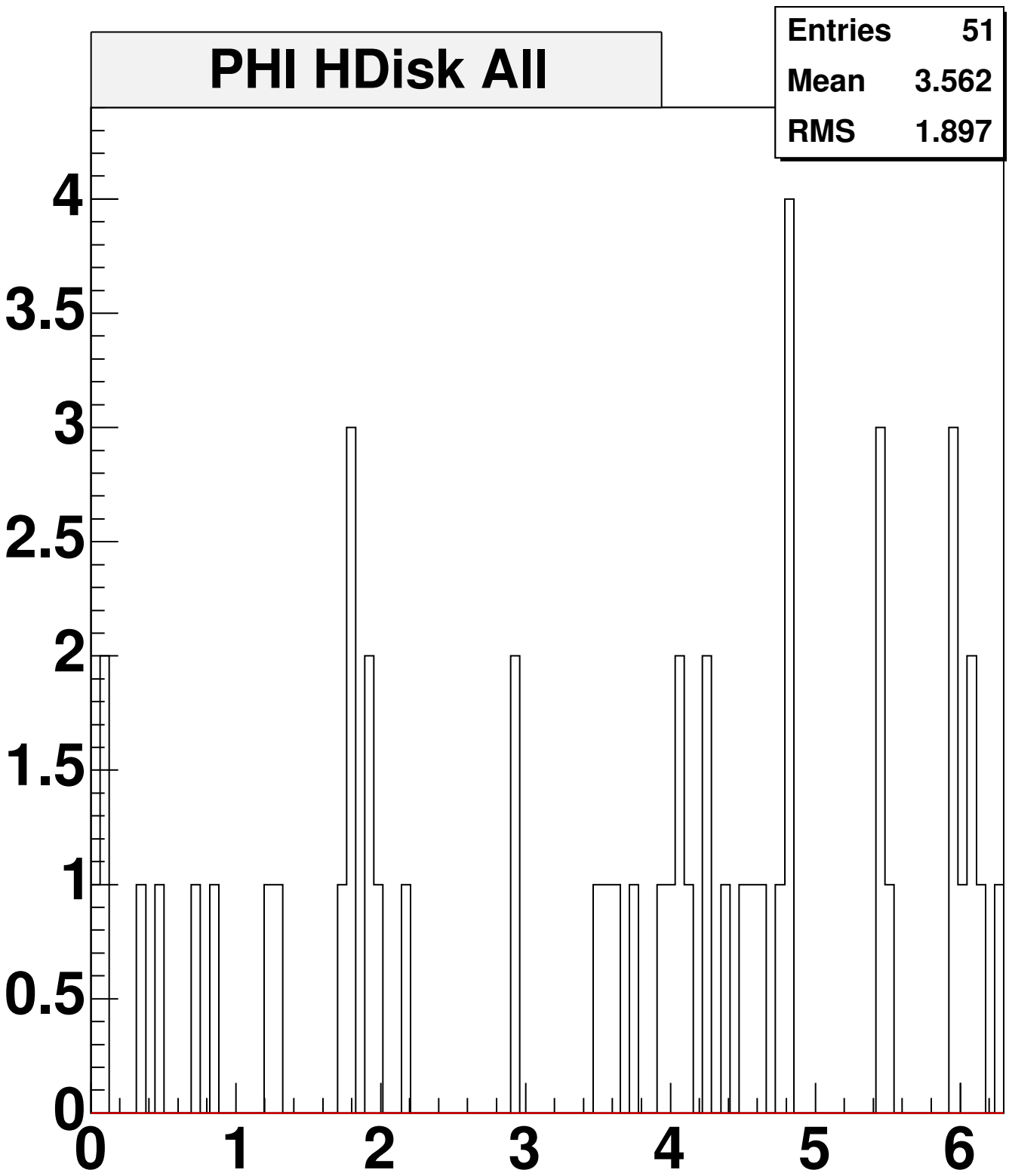


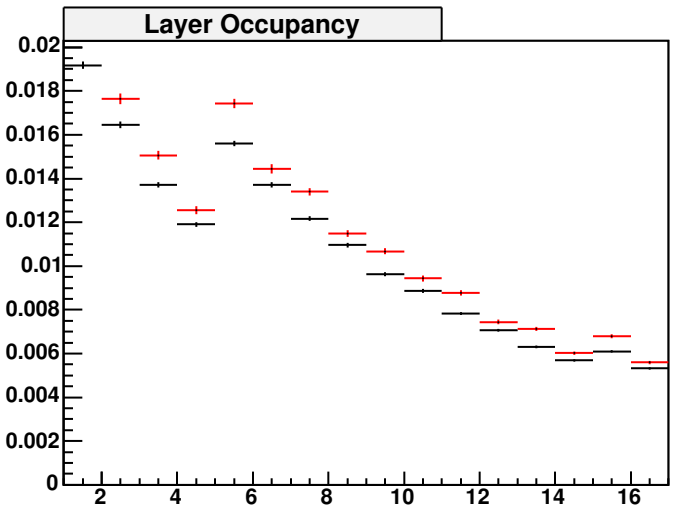
SmtClusters (FDiskClusters)

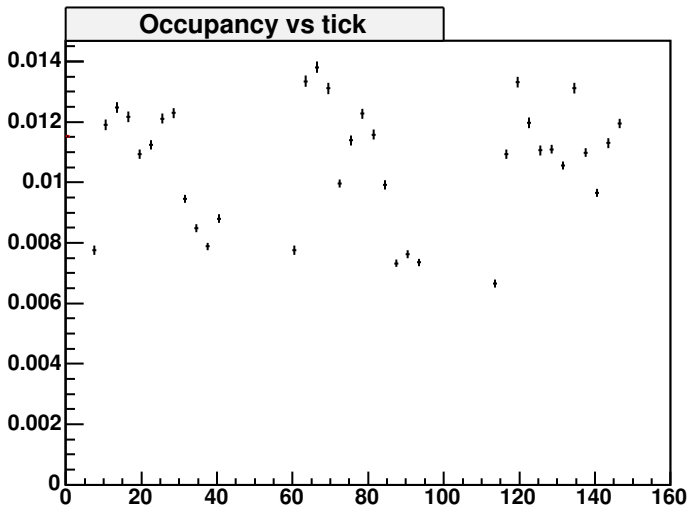

PHI HDisk1
Entries 33644
Mean 3.619
RMS 1.715
PHI HDisk2
Entries 63641
Mean 3.433
RMS 1.981
PHI HDisk3
Entries 65094
Mean 3.435
RMS 1.817
PHI HDisk4
Entries 47760
Mean 3.497
RMS 1.974
SmtClusters (HDiskClusters)

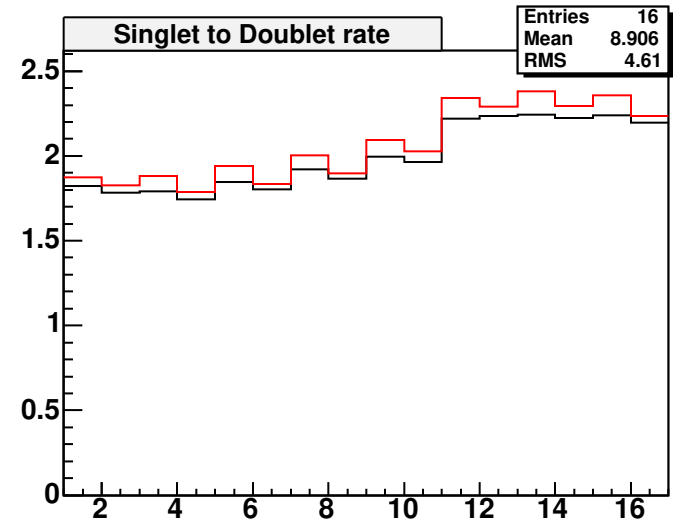

PHI
Entries 116053
Mean 3.148
RMS 1.805
800
600
400
200
0
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)

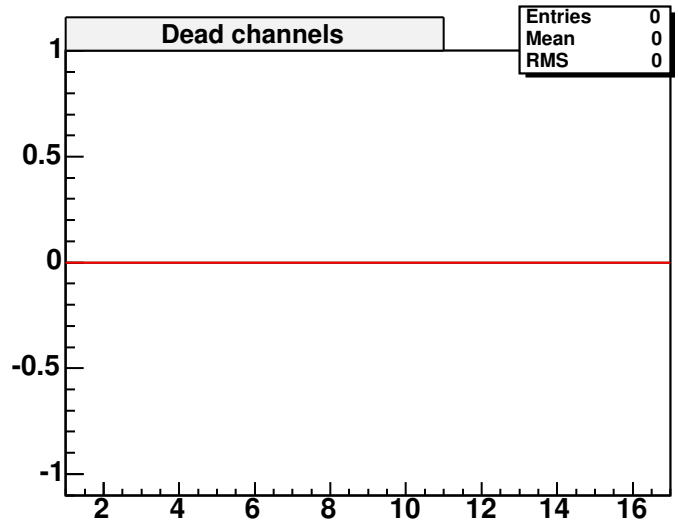

PHI FDisk All
Entries 21958
Mean 3.095
RMS 1.932
400
350
300
250
200
150
100
50
0
0
1
2
3
4
5
6
SmtClusters (allFDiskTClusters)

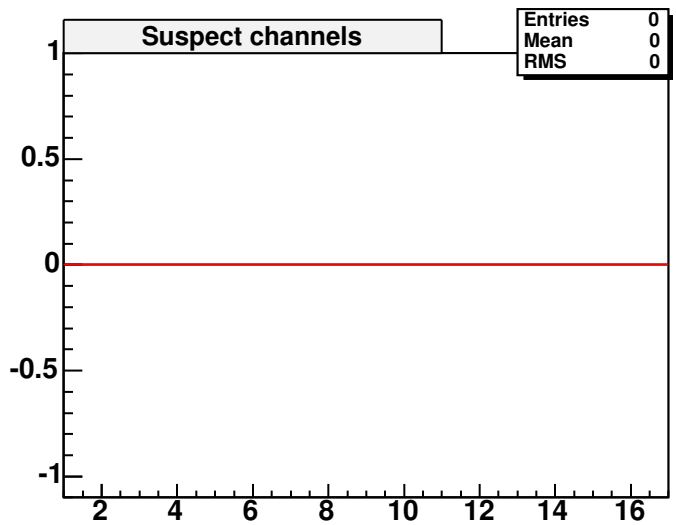

PHI HDisk All
Entries 51
Mean 3.562
RMS 1.897
0
0.5
1
1.5
2
2.5
3
3.5
4
0
1
2
3
4
5
6
SmtClusters (allHDiskTClusters)

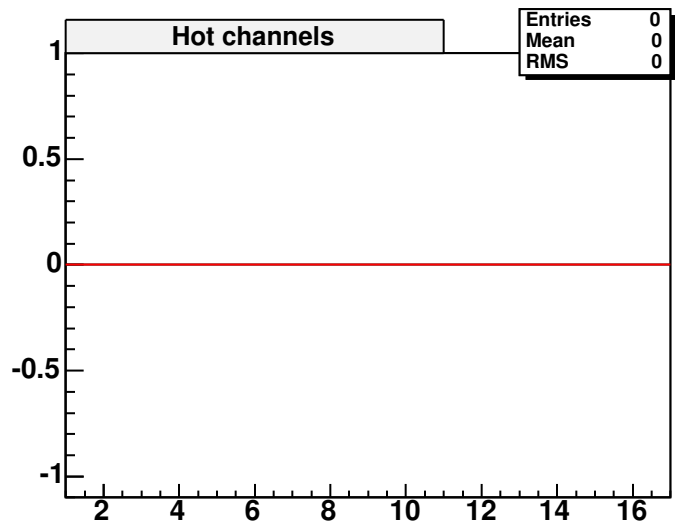




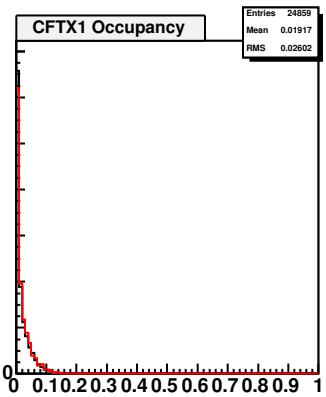


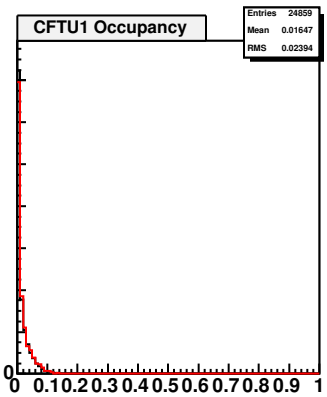


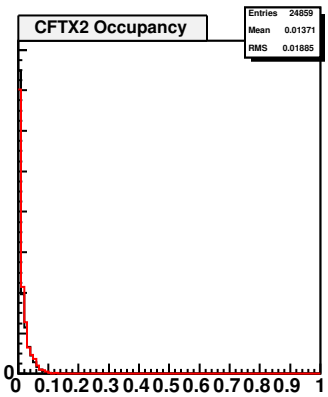


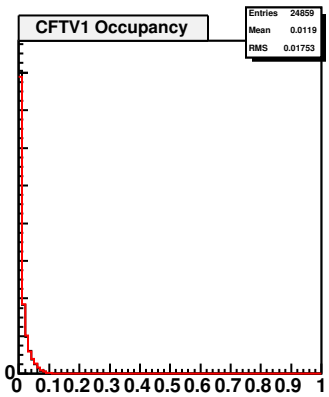


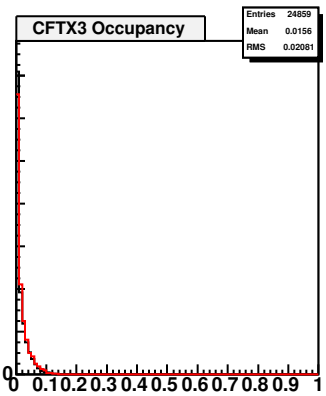
CFT Summary (All Clusters)

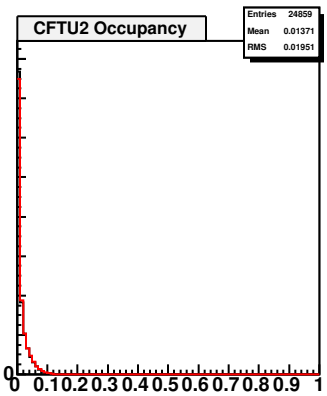


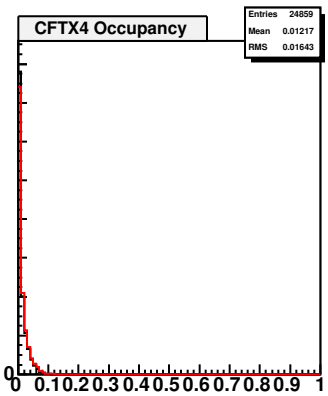


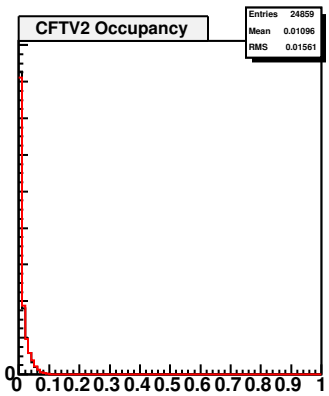


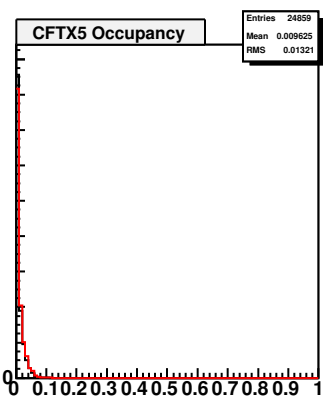


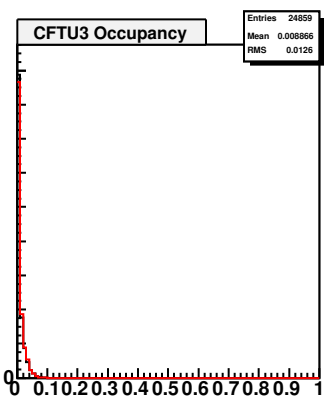


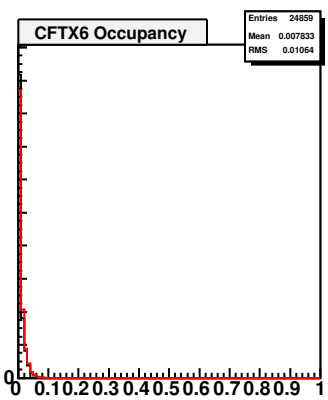


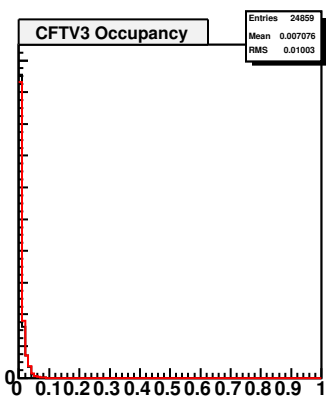


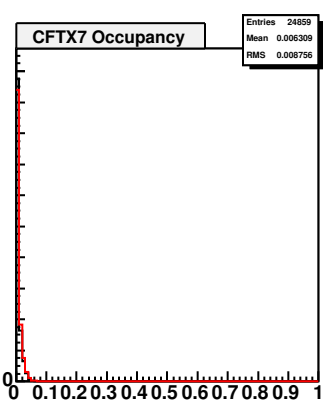


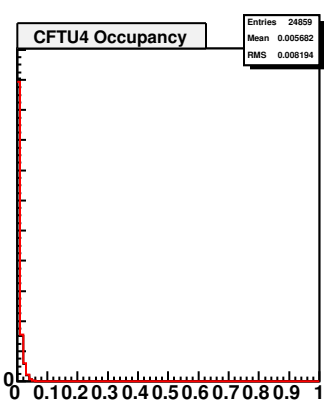


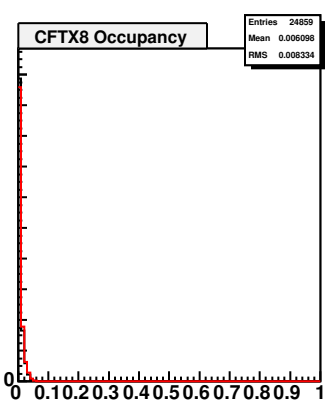


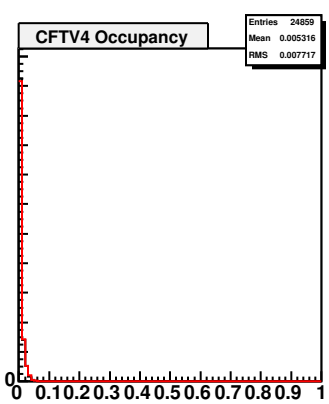




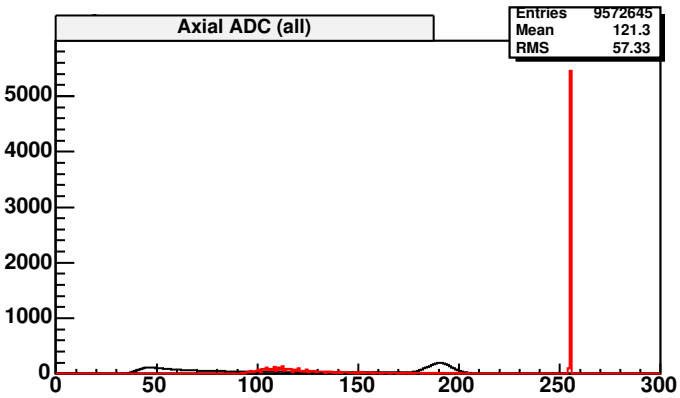


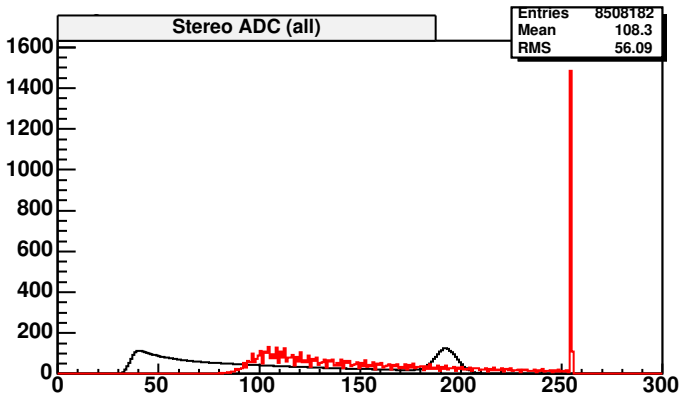


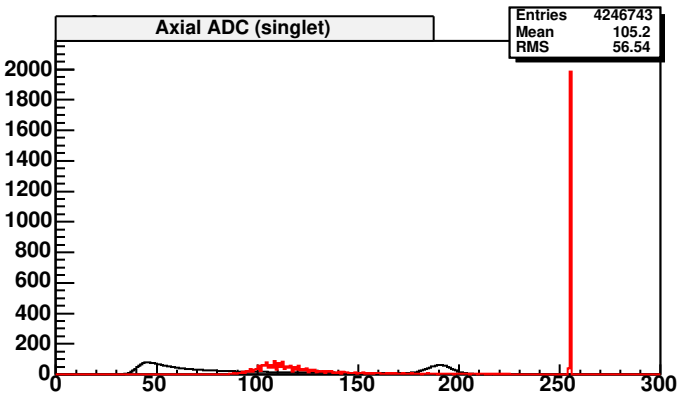


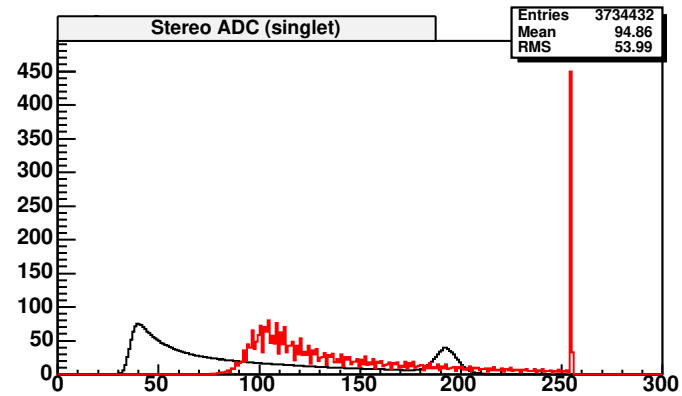


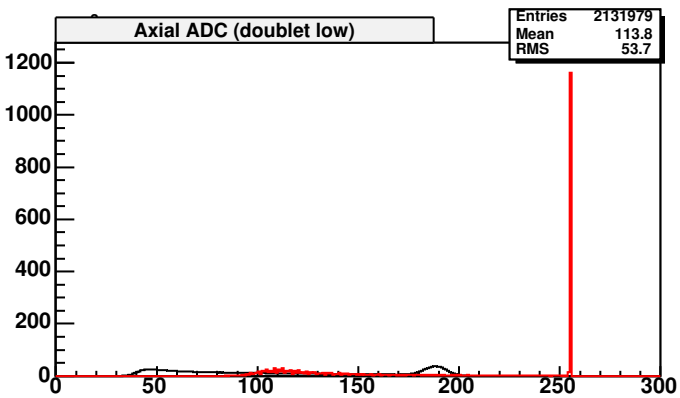
Cft Occupancy (All Clusters)

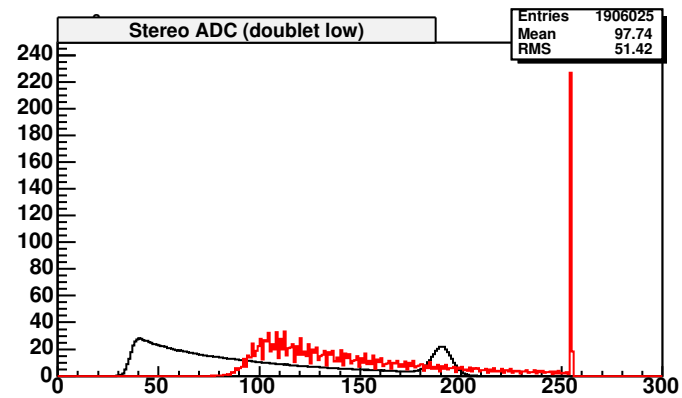


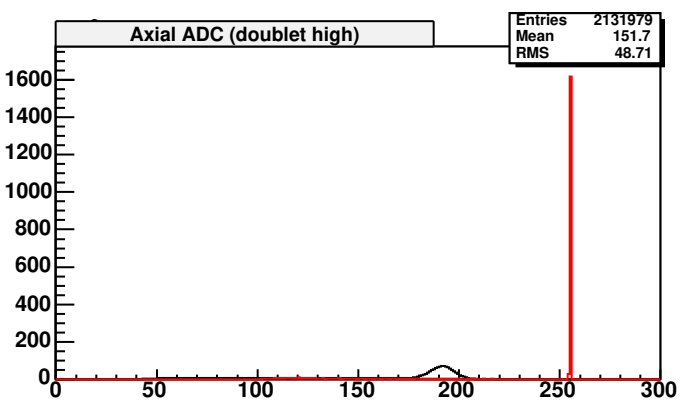


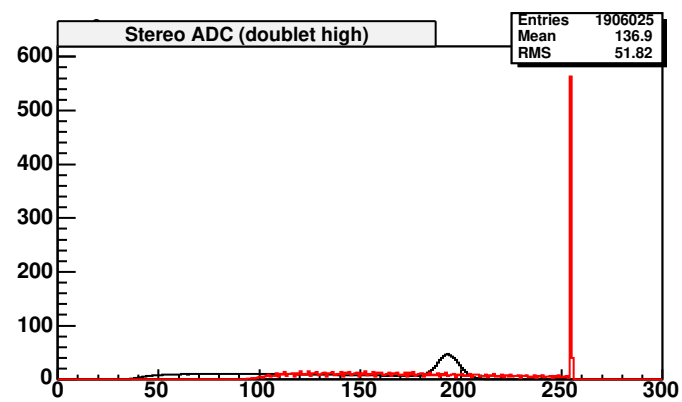




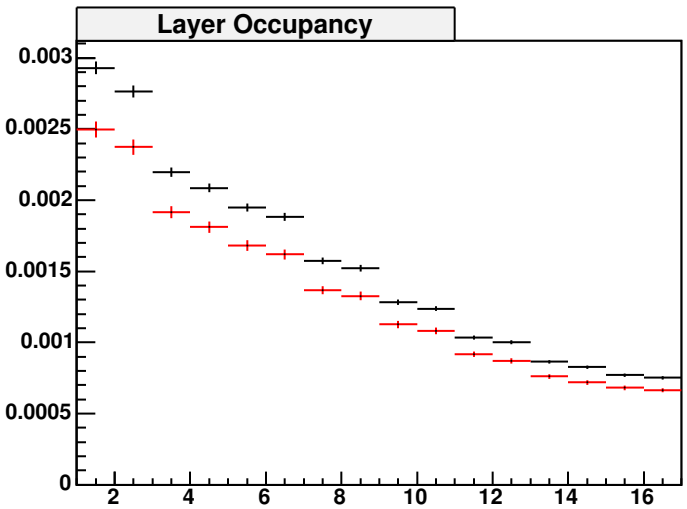


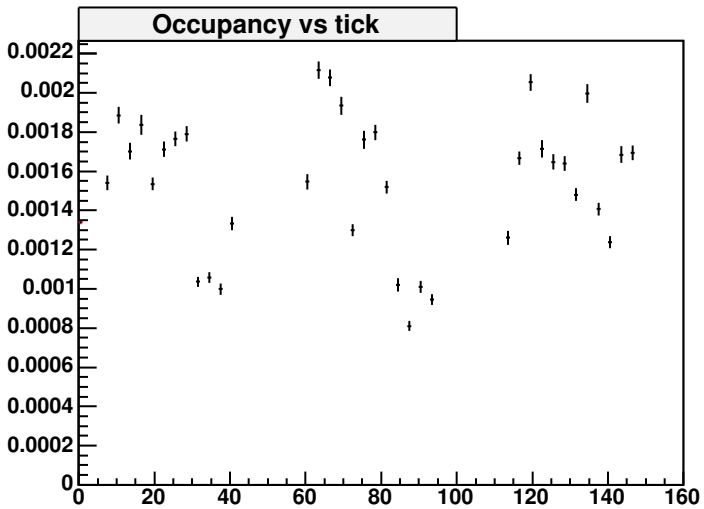


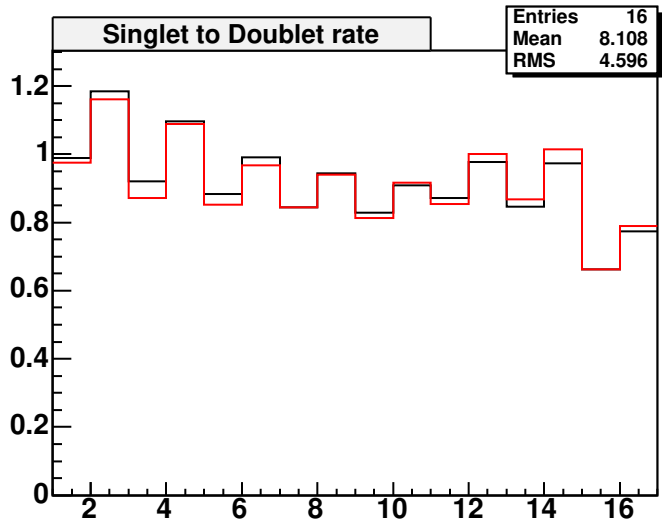


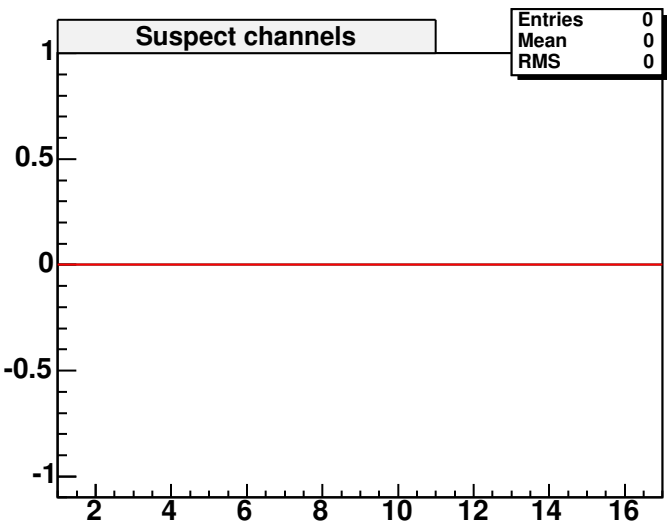


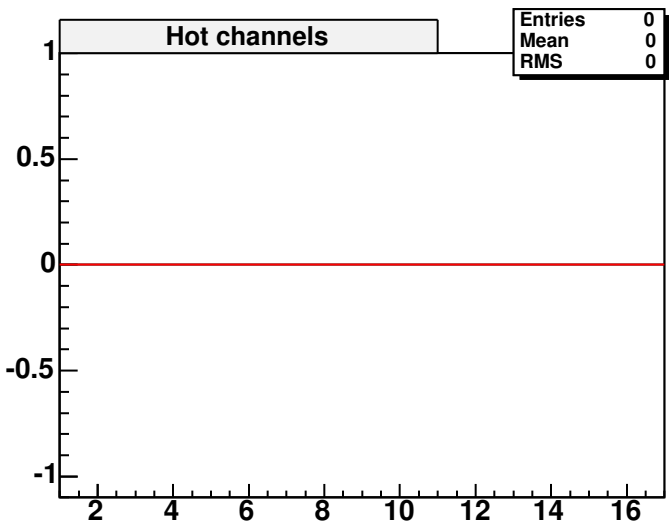
CFT ADC Summary (All Clusters)



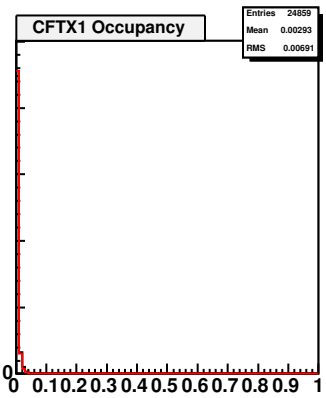


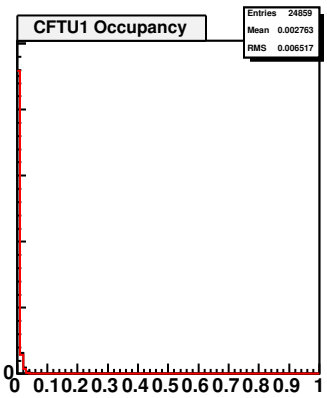


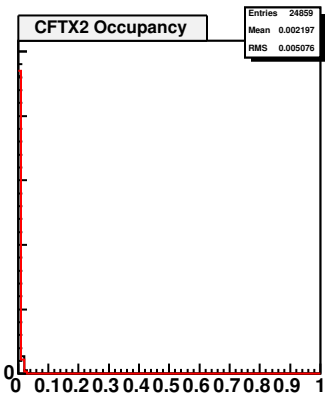


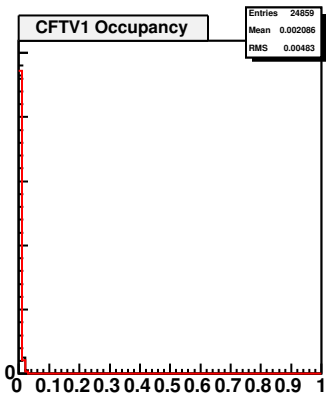


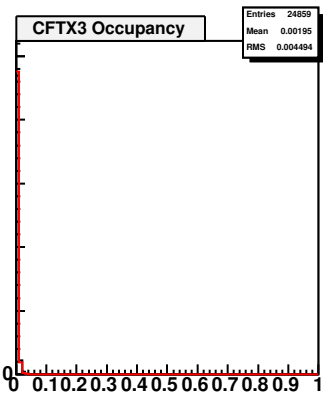
CFT Summary (Clusters on tracks)

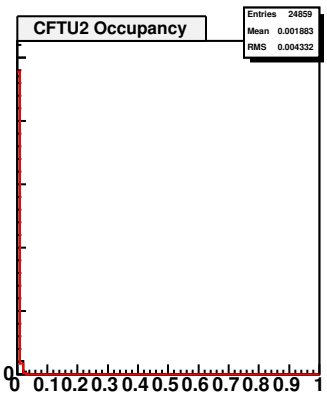


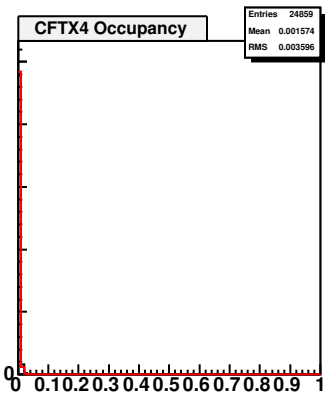


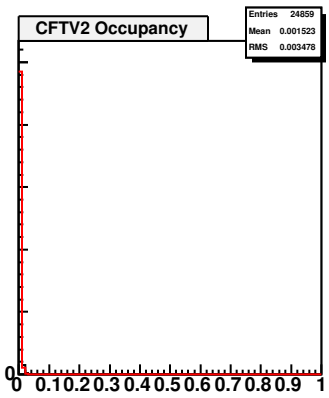


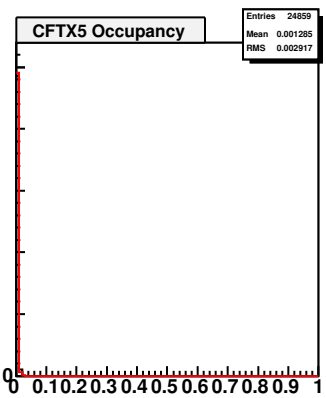


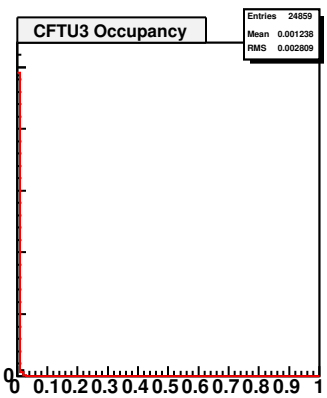


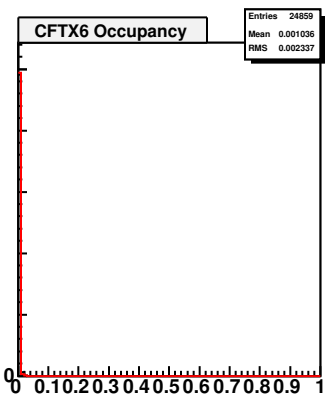


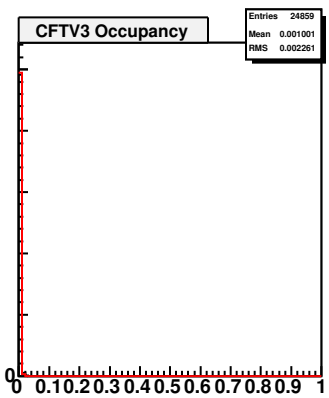


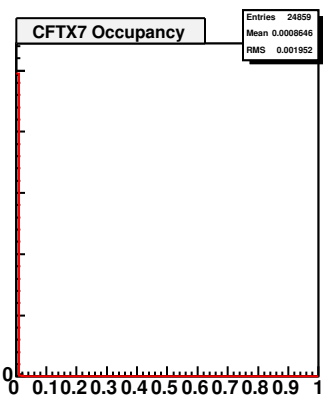


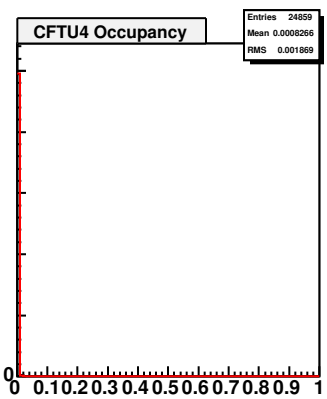


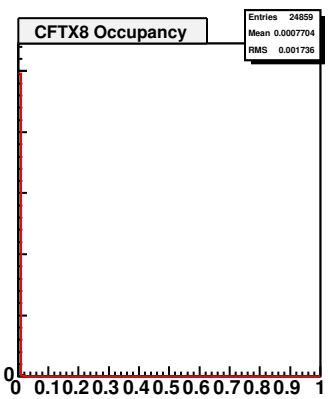


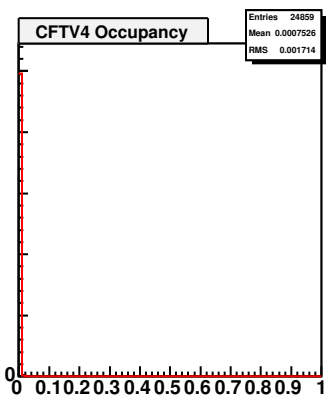




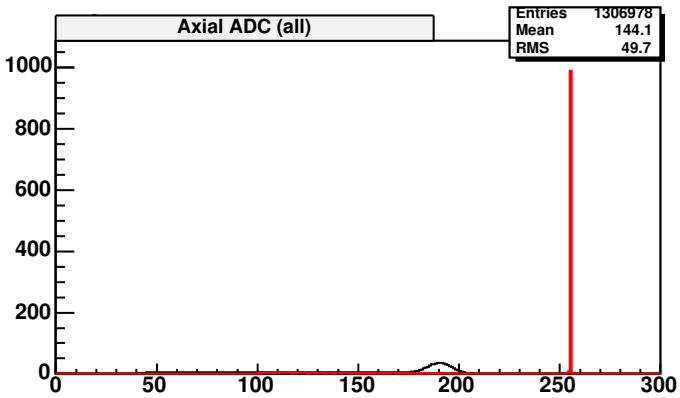


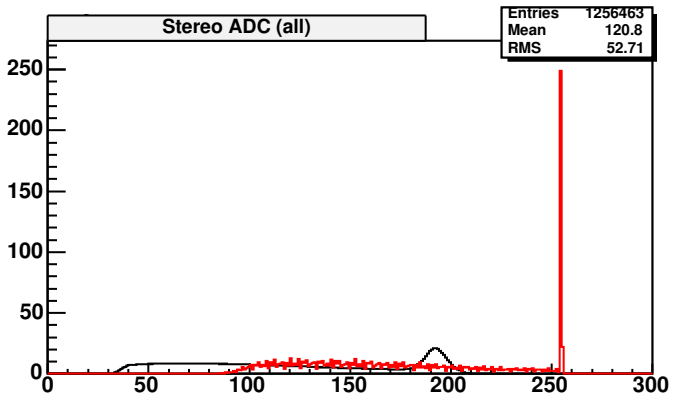


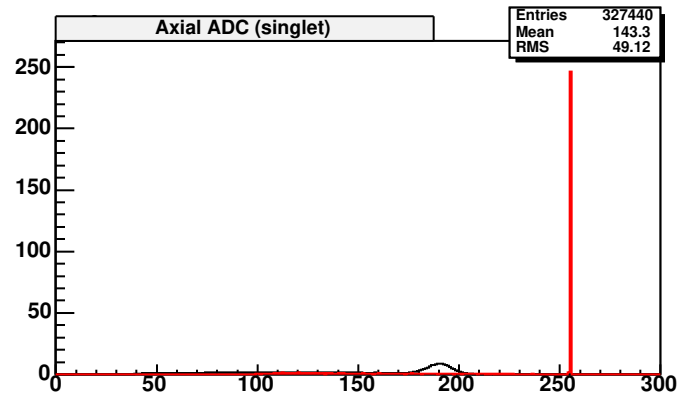


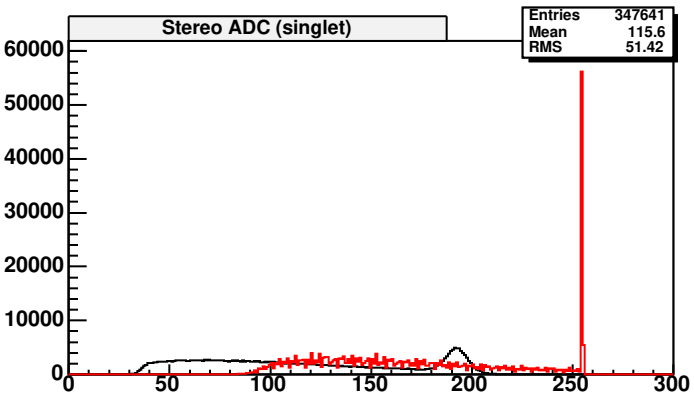


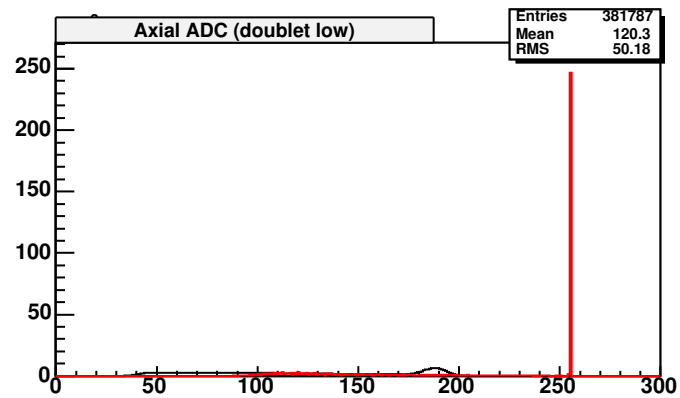
Cft Occupancy (Clusters on tracks)

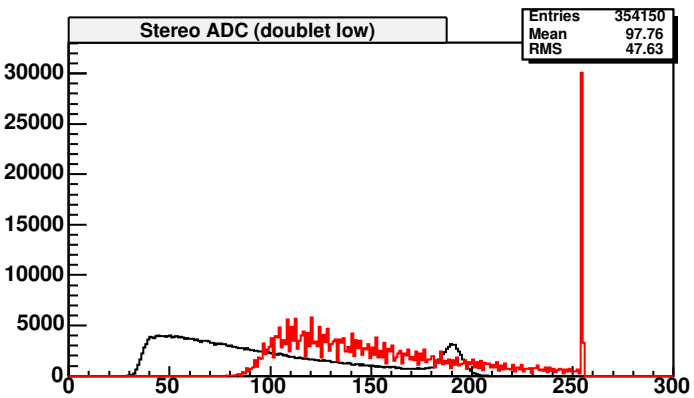


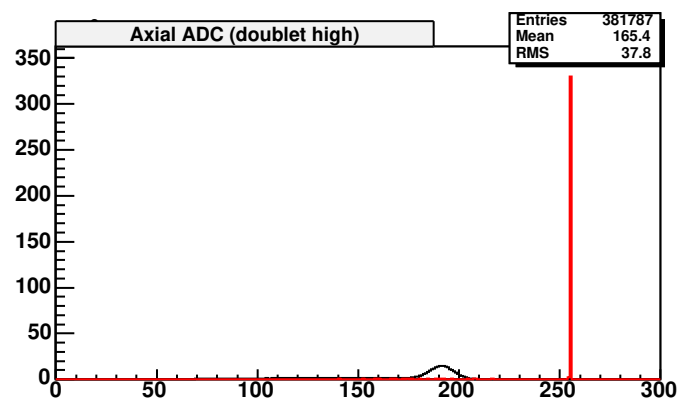


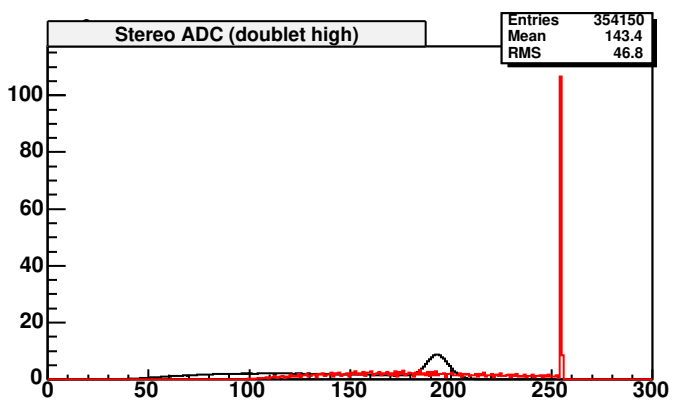




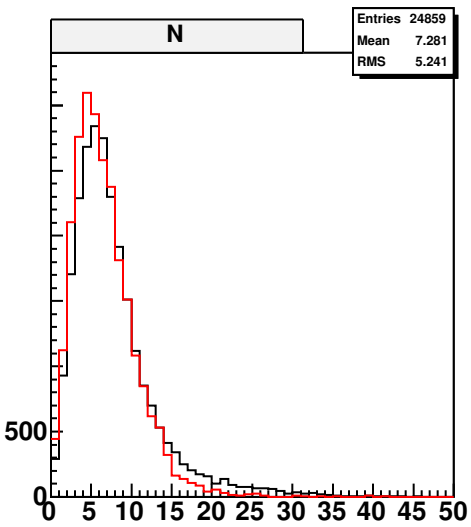








CFT ADC Summary (Clusters on tracks)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RMS 5.241
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0
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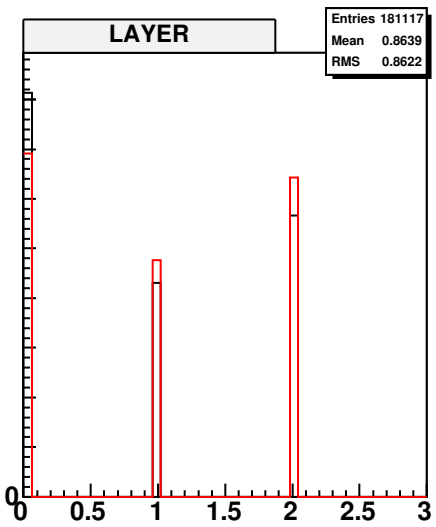
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Entries 181117
Mean 0.8639
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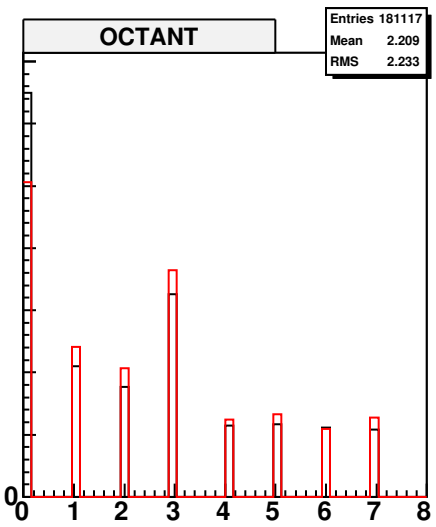
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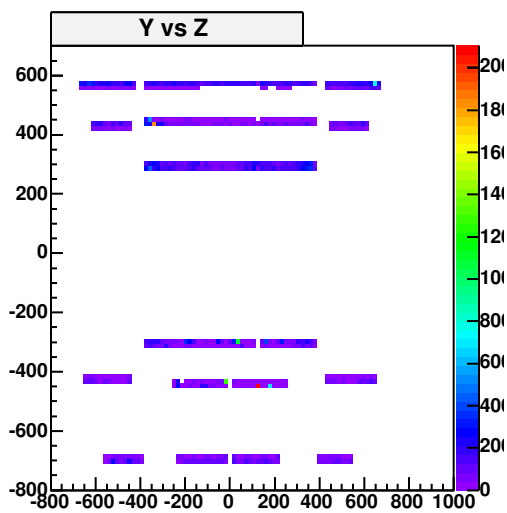
Y vs Z
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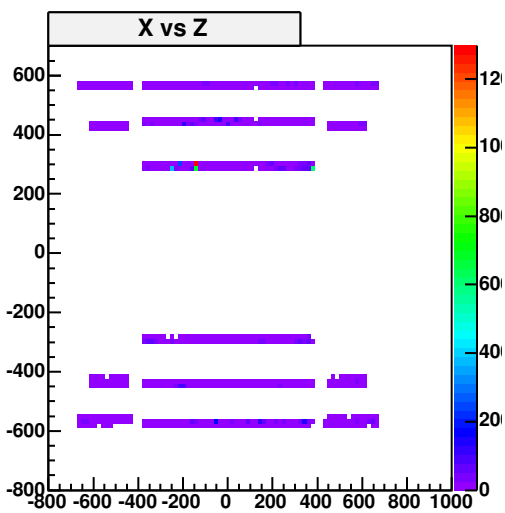
200
0
-200
-400
-600
-800
-800 -600 -400 -200 0 200 400 600 800 1000


X vs Z
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-200
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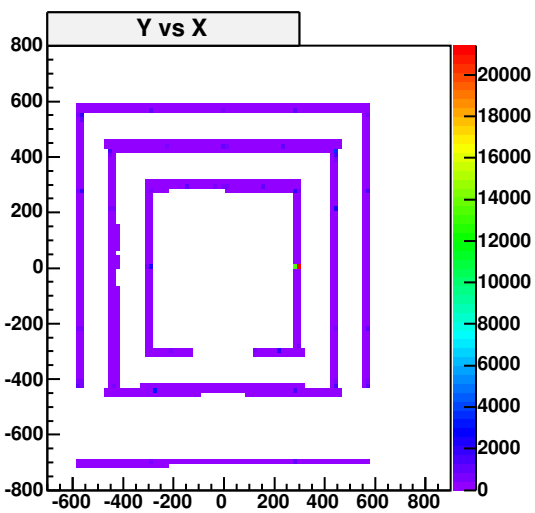
Y vs X
800
600
400
200
0
-200
-400
-600
-800
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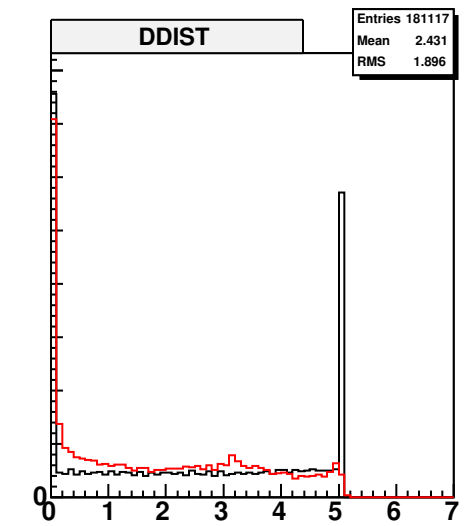
DDIST
Entries 181117
Mean 2.431
RMS 1.896
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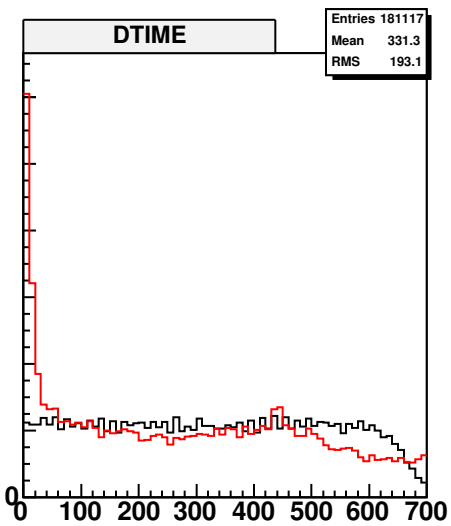
DTIME
Entries 181117
Mean 331.3
RMS 193.1
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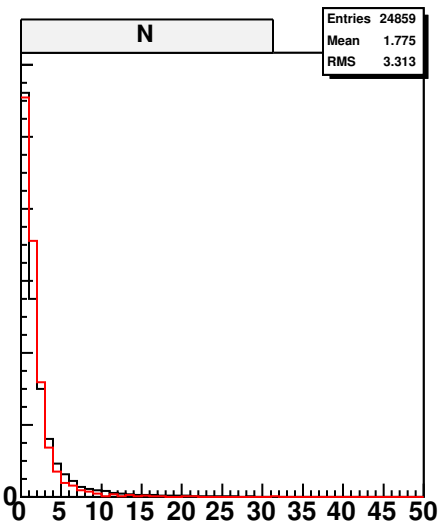
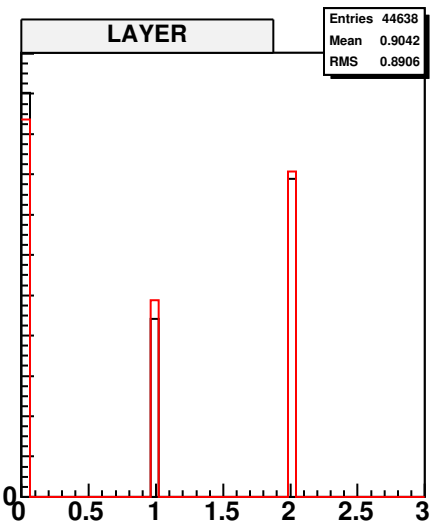
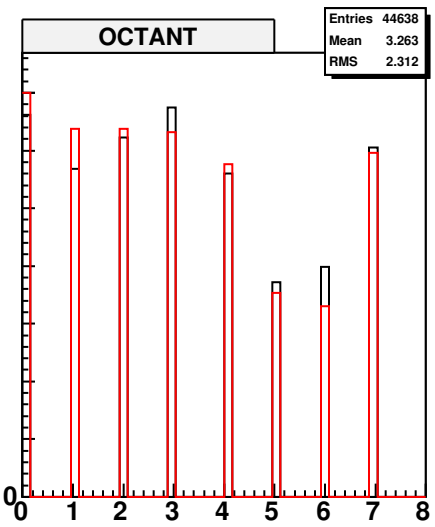
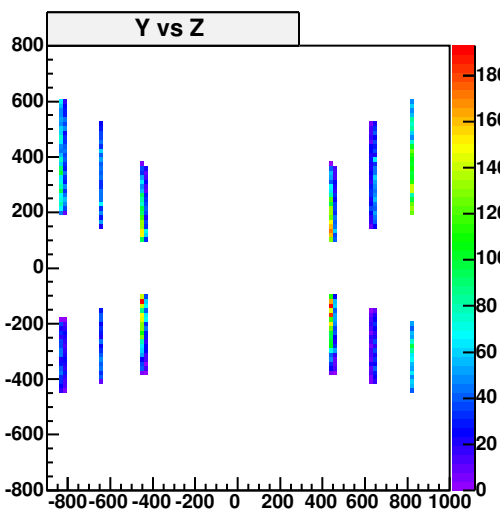
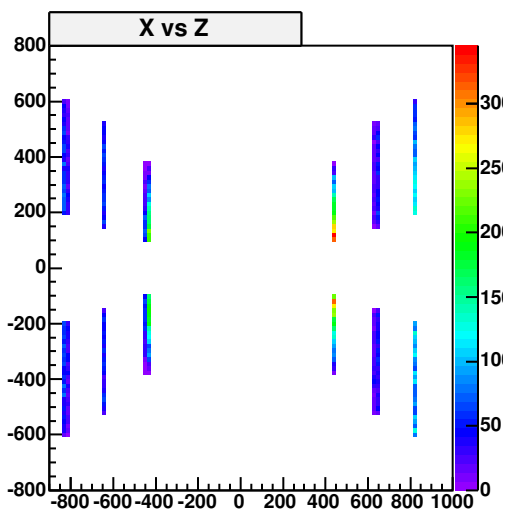
MuonPDT (All)

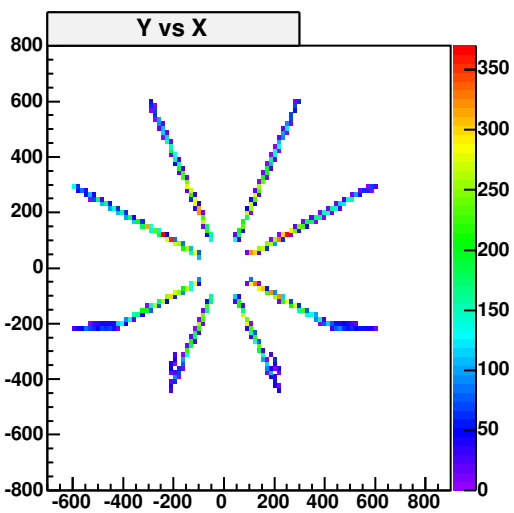

N
Entries 24859
Mean 1.775
RMS 3.313

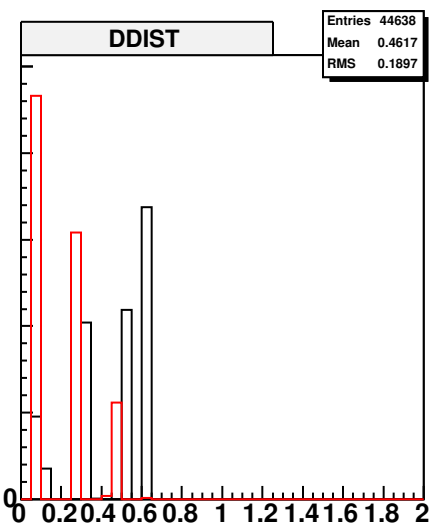

LAYER
Entries 44638
Mean 0.9042
RMS 0.8906

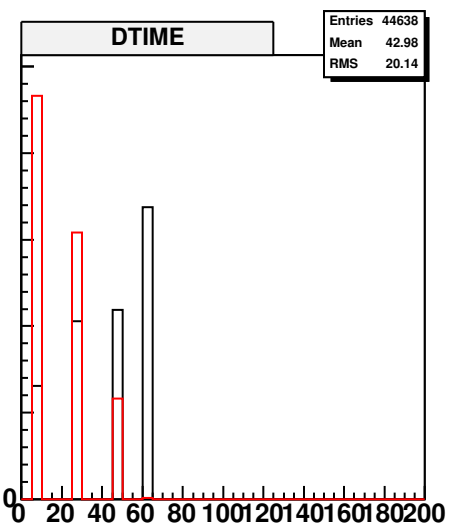

OCTANT
Entries 44638
Mean 3.263
RMS 2.312


Y vs Z

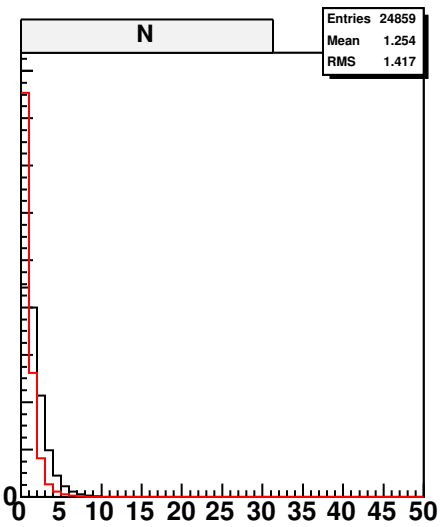

X vs Z

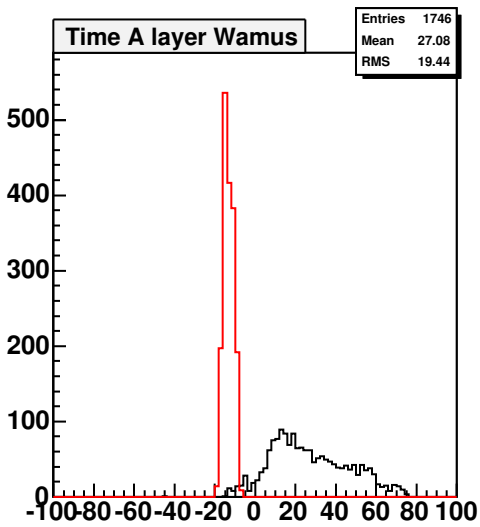

Y vs X

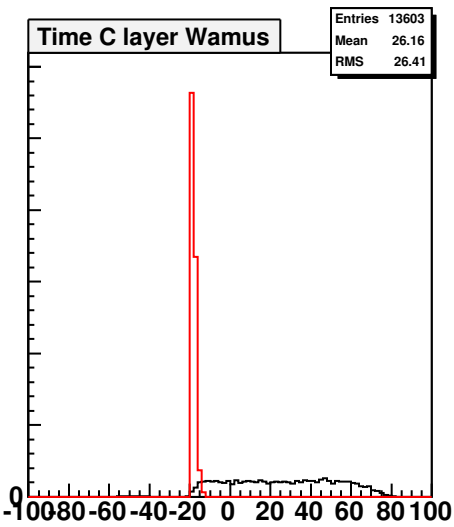

DDIST
Entries 44638
Mean 0.4617
RMS 0.1897

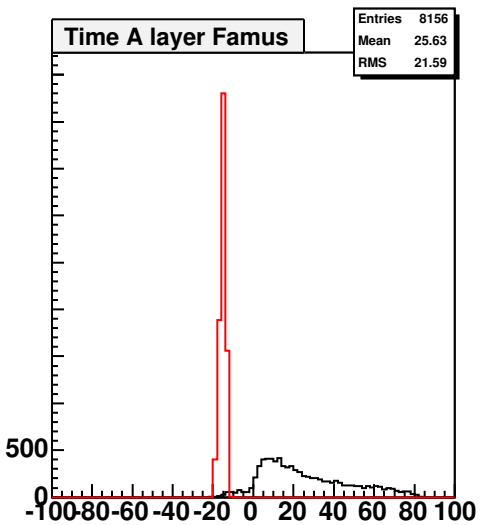

DTIME
Entries 44638
Mean 42.98
RMS 20.14

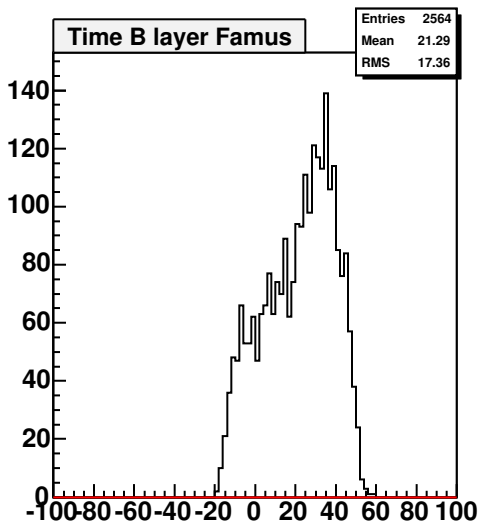
MuonMDT (All)

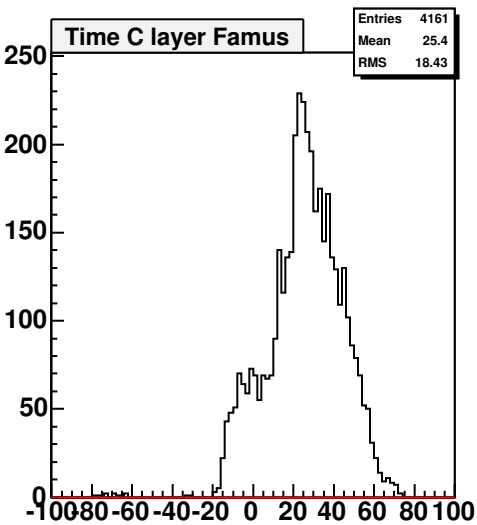

N
Entries 24859
Mean 1.254
RMS 1.417

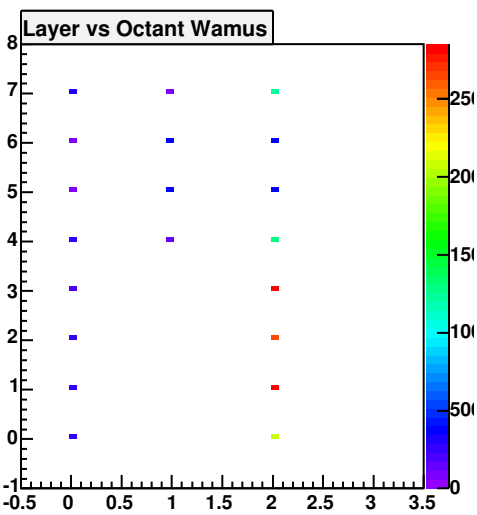

Time A layer Wamus
Entries 1746
Mean 27.08
RMS 19.44

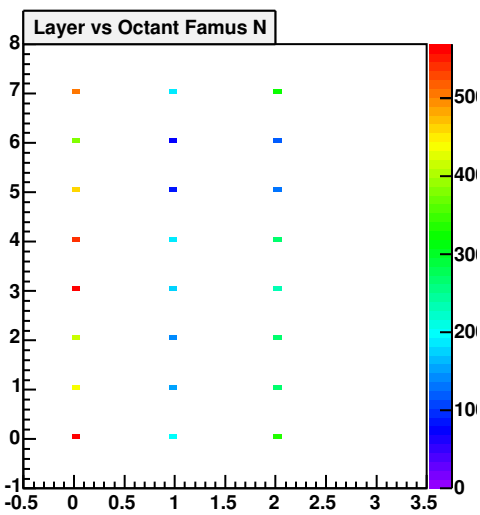

Time C layer Wamus
Entries 13603
Mean 26.16
RMS 26.41

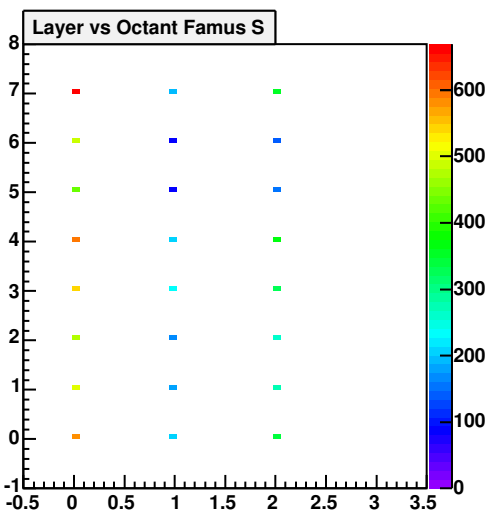

Time A layer Famus
Entries 8156
Mean 25.63
RMS 21.59


Time B layer Famus
Entries 2564
Mean 21.29
RMS 17.36

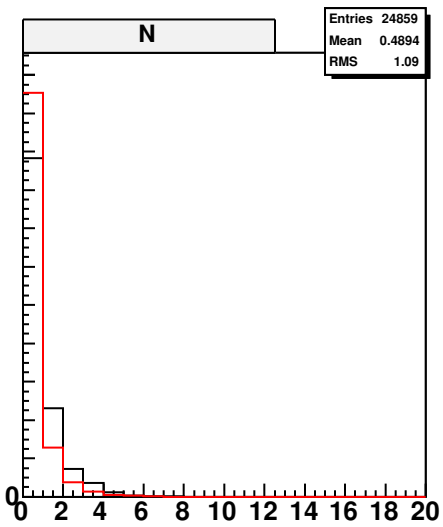

Time C layer Famus
Entries 4161
Mean 25.4
RMS 18.43

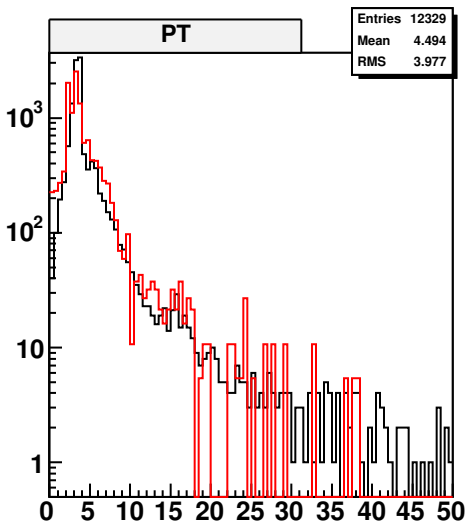

Layer vs Octant Wamus

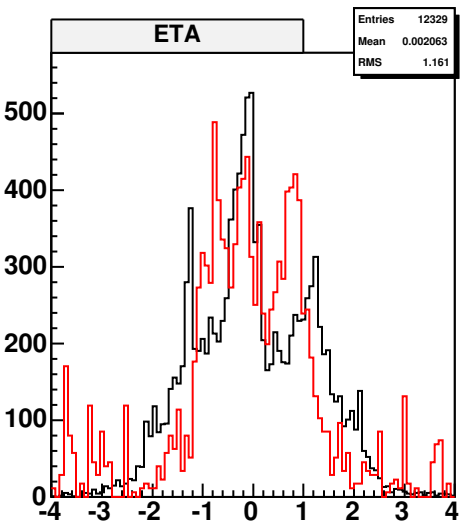

Layer vs Octant Famus N

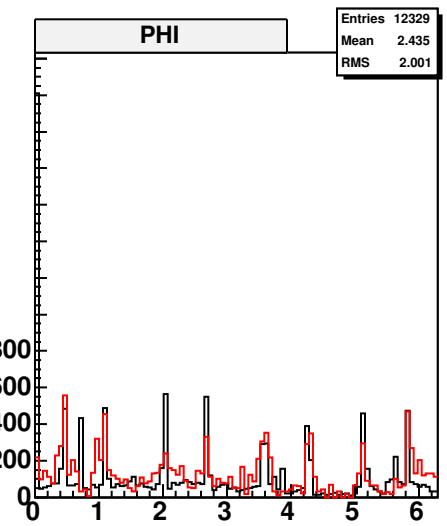

Layer vs Octant Famus S

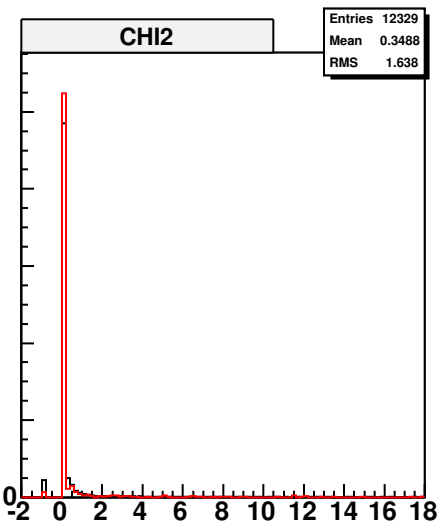
MuonMSC (All)

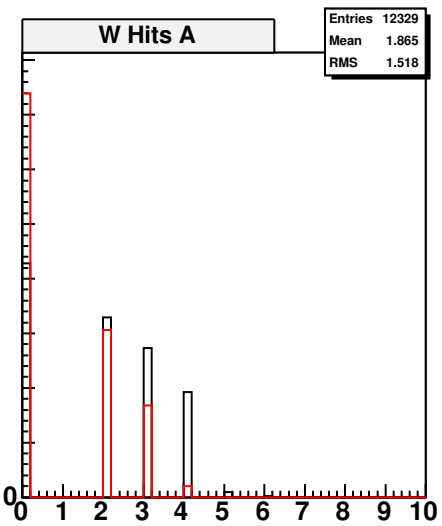


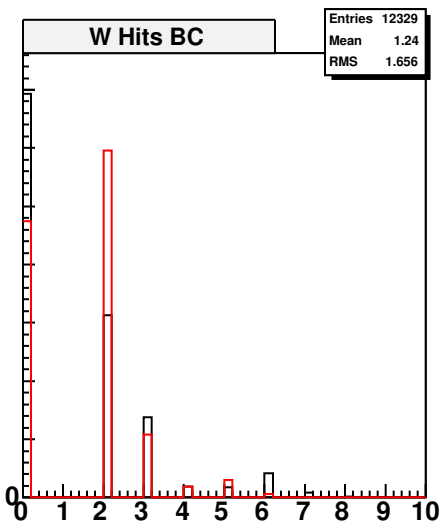


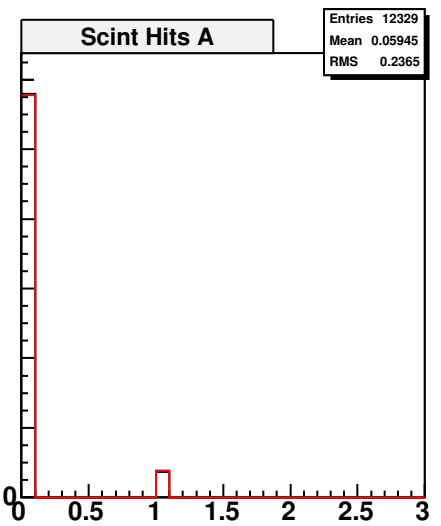


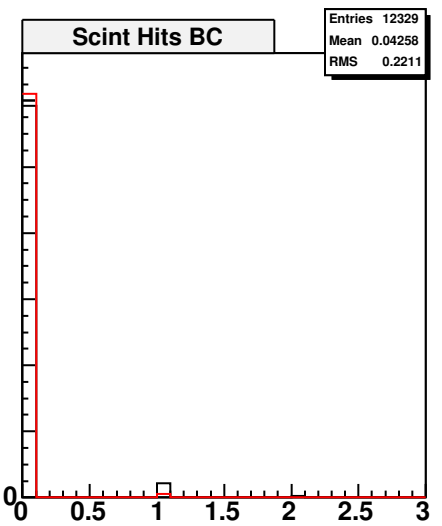




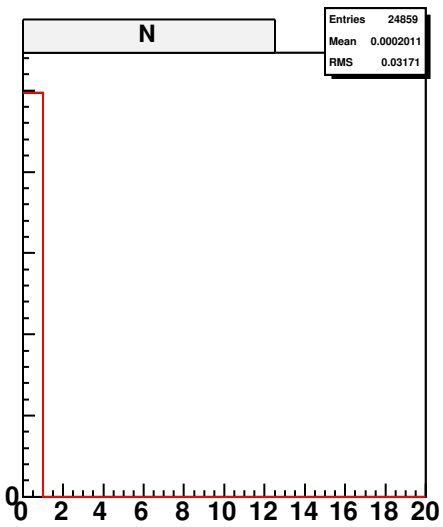


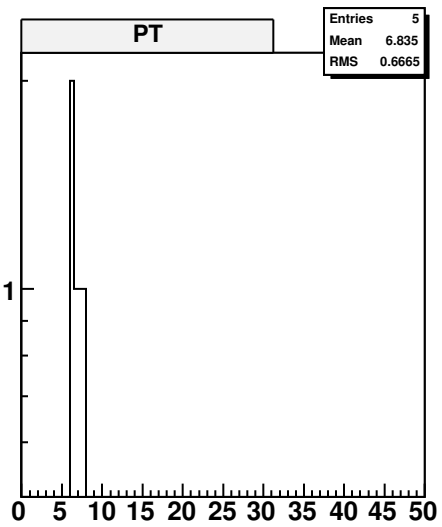


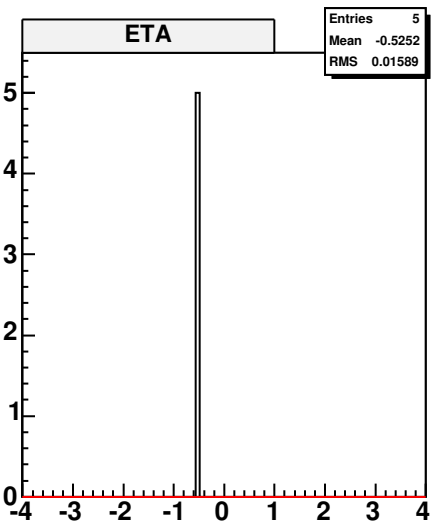


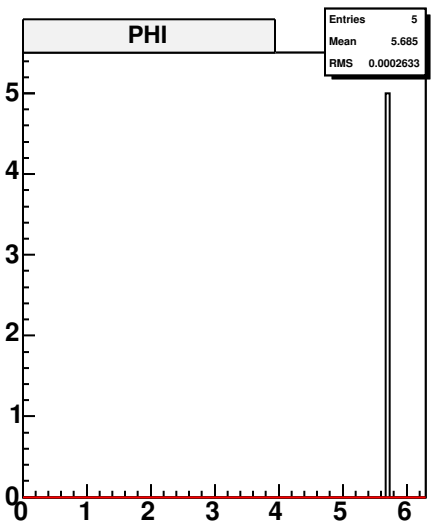


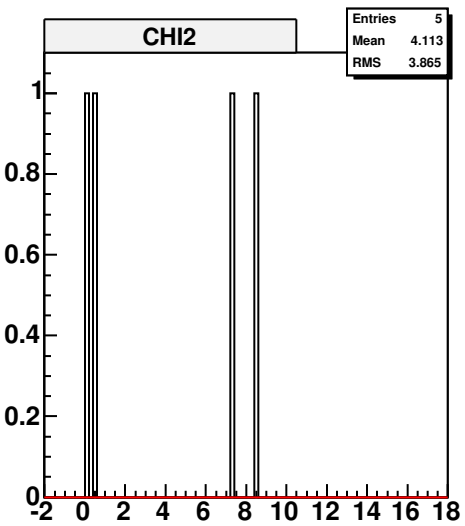
Muon Local Tracks (All)

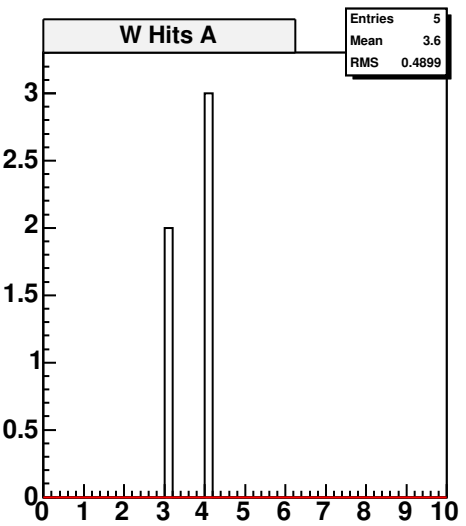


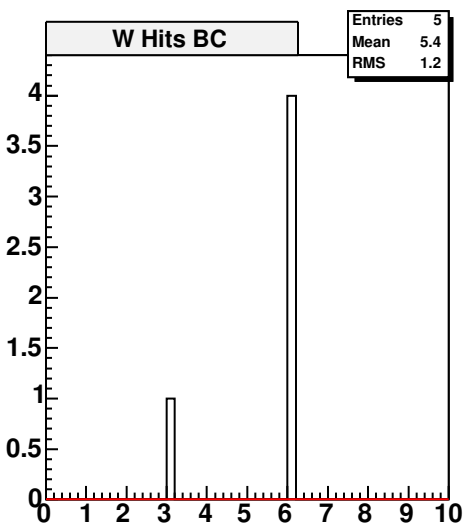


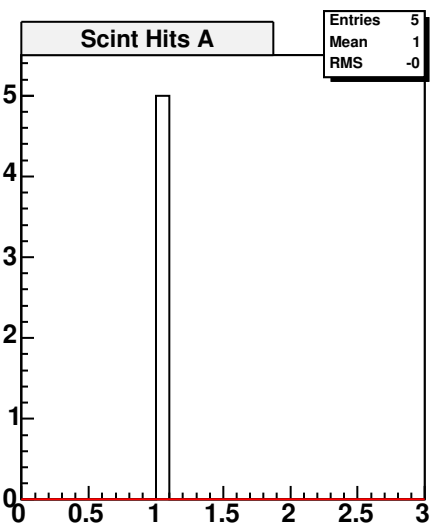


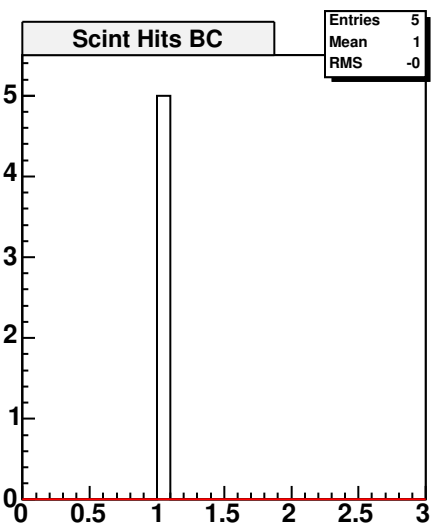




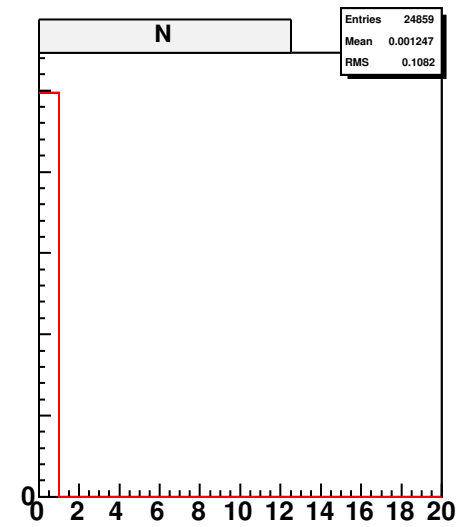


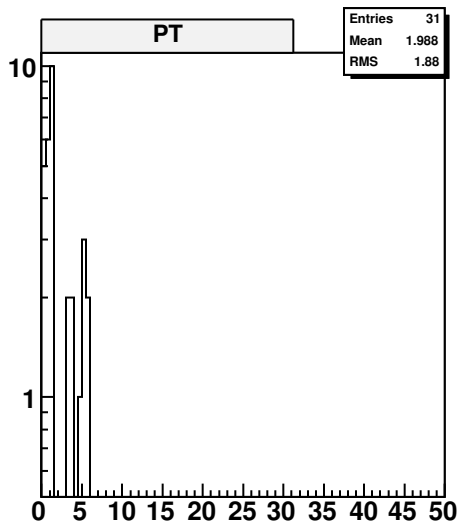


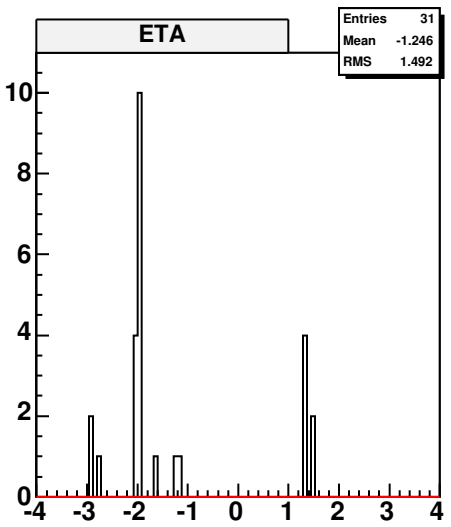


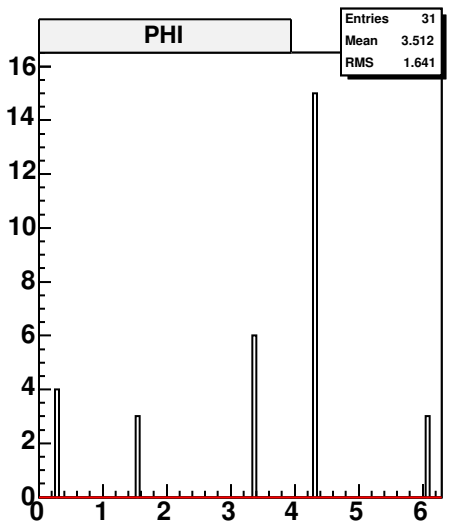


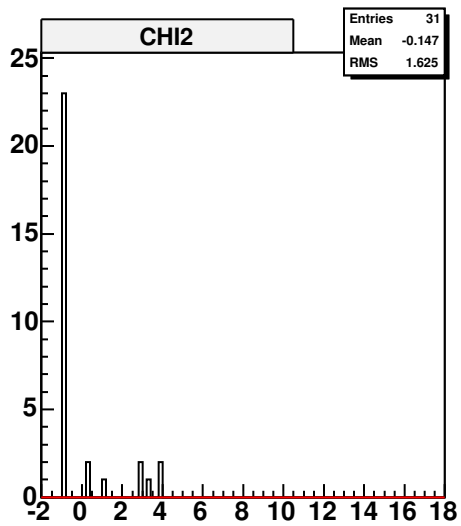
Muon Local Tracks (MediumWamus)

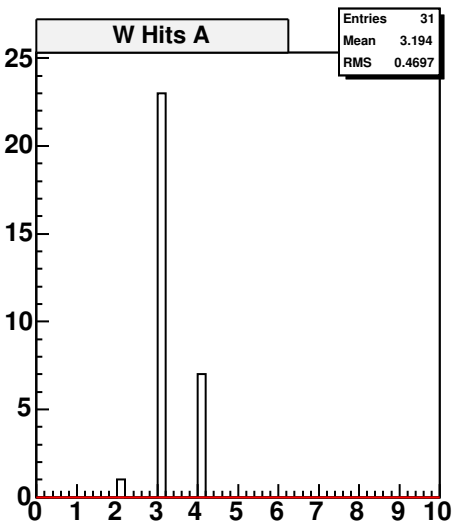


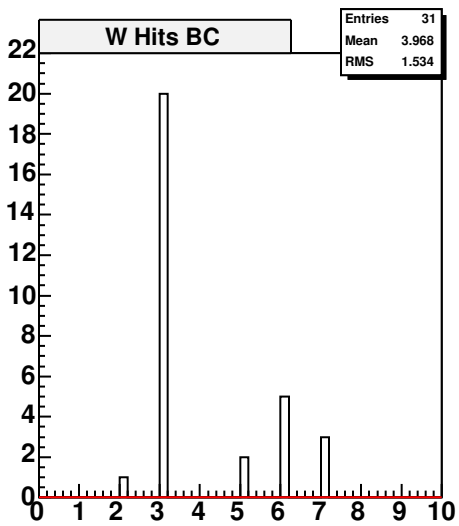


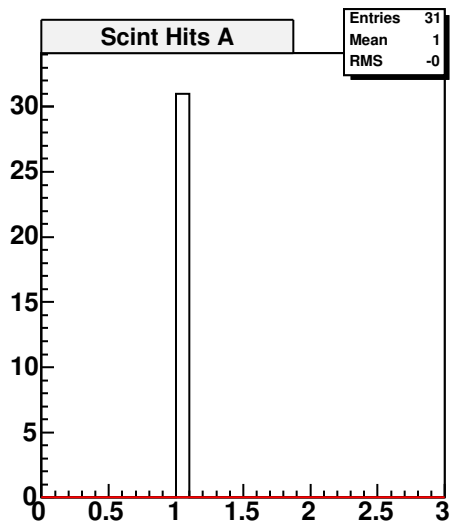


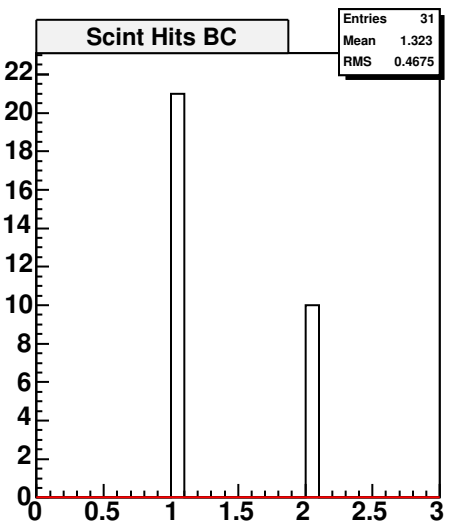




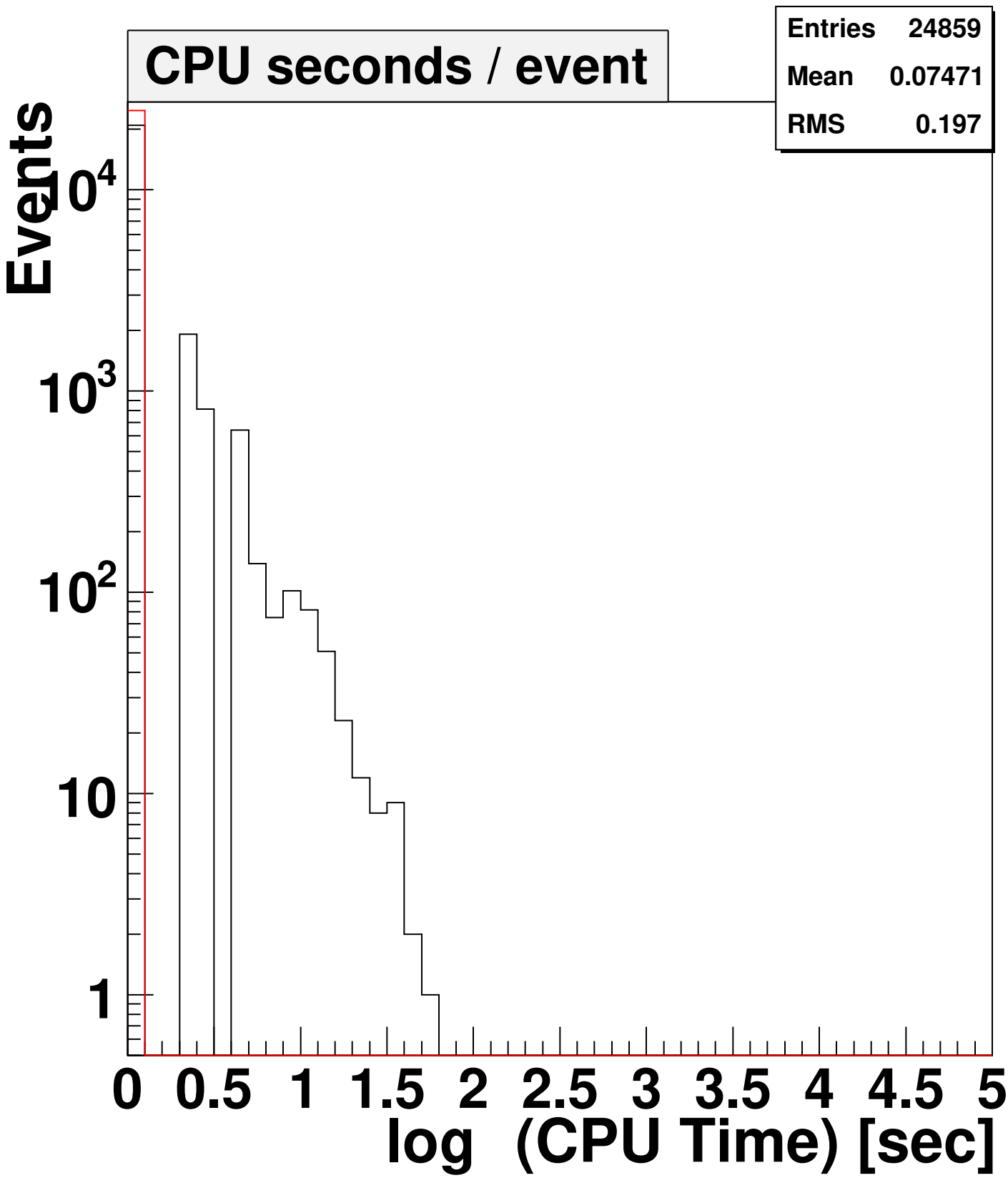








Muon Local Tracks (MediumFamus)



RECO Performance (Timing)