p200100b4-Run2atmb_25kevt.root
p2003_r222485.root

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Page 4: Tracks Hits (All)
Page 5: Tracks (Tight)
Page 6: Tracks Hits (Tight)
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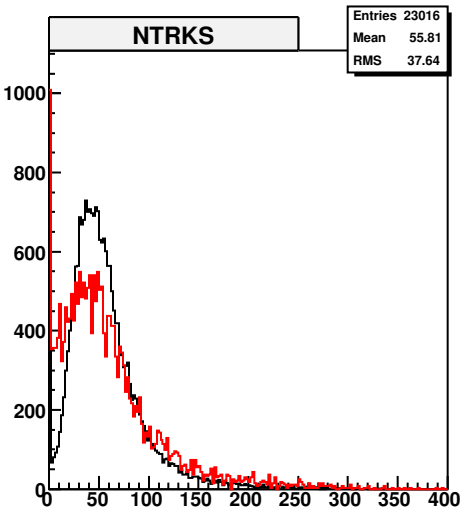
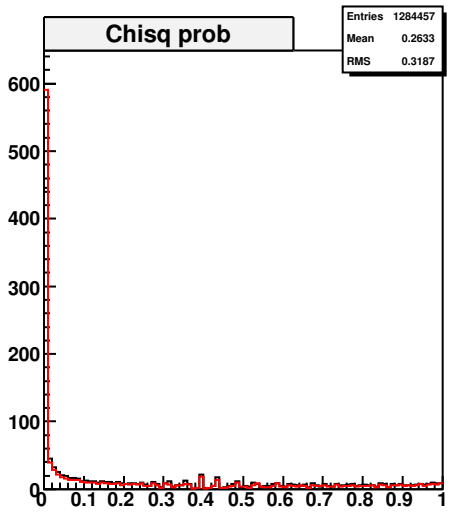
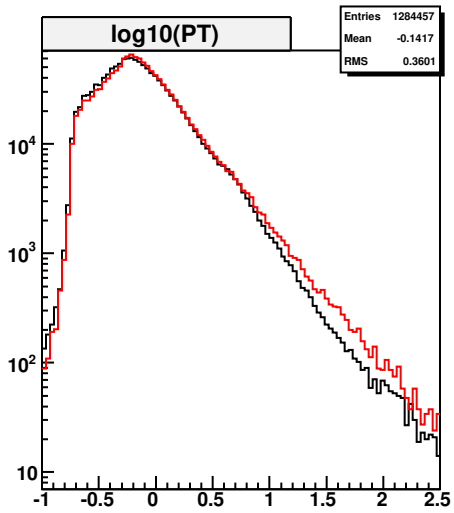
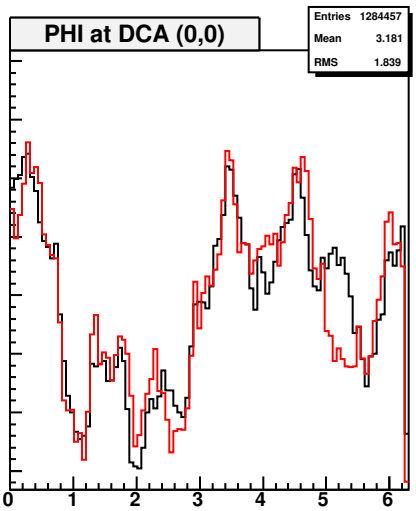
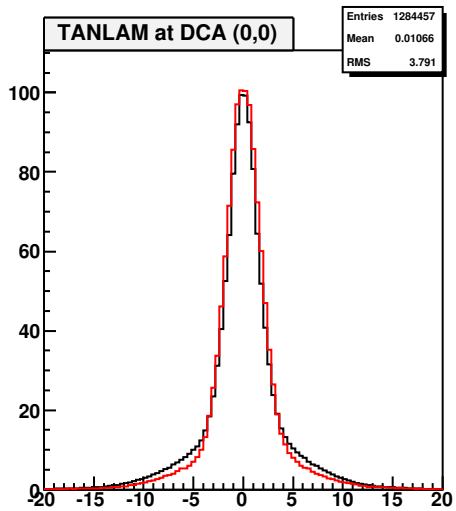
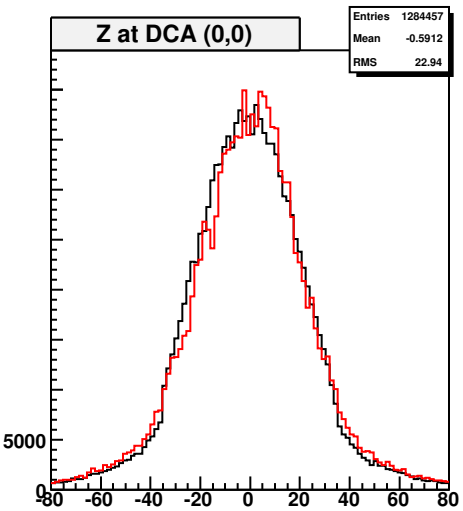

NTRKS
Entries 23016
Mean 55.81
RMS 37.64

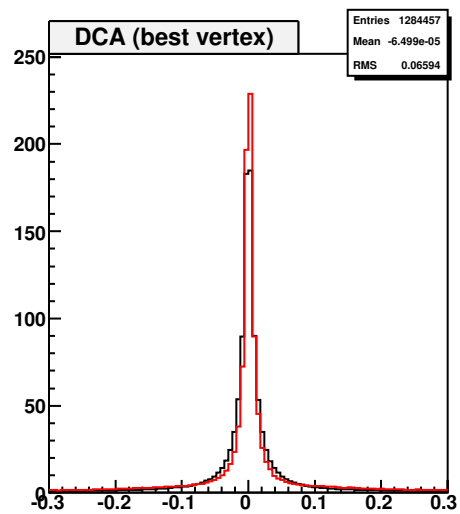

Chisq prob
Entries 1284457
Mean 0.2633
RMS 0.3187

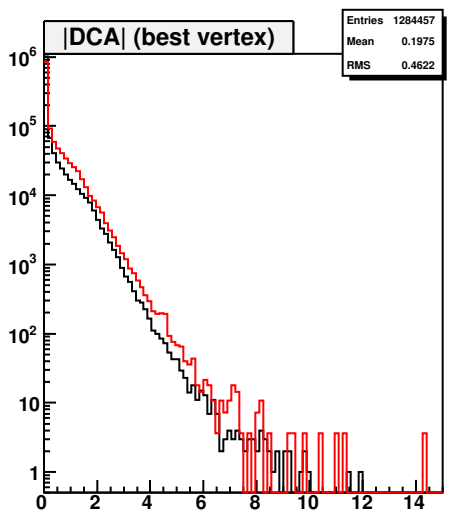

log10(PT)
Entries 1284457
Mean -0.1417
RMS 0.3601

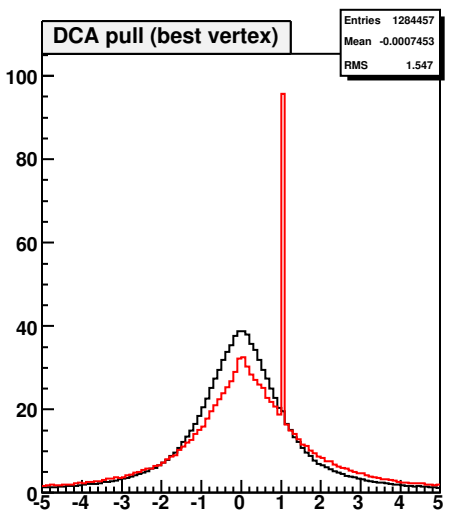

PHI at DCA (0,0)
Entries 1284457
Mean 3.181
RMS 1.839


TANLAM at DCA (0,0)
Entries 1284457
Mean 0.01066
RMS 3.791

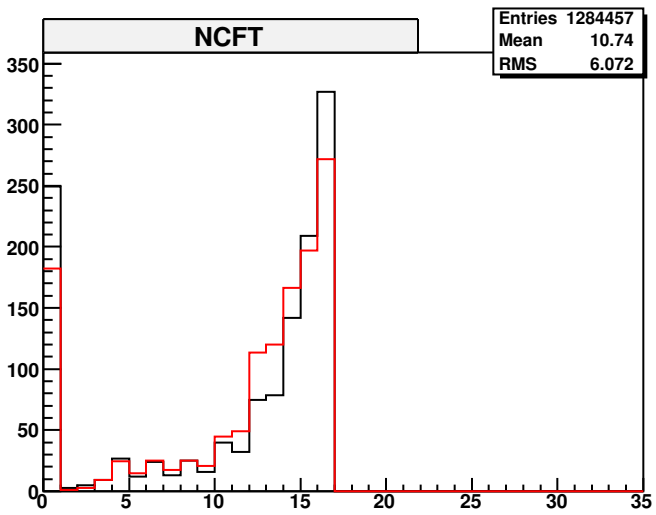

Z at DCA (0,0)
Entries 1284457
Mean -0.5912
RMS 22.94

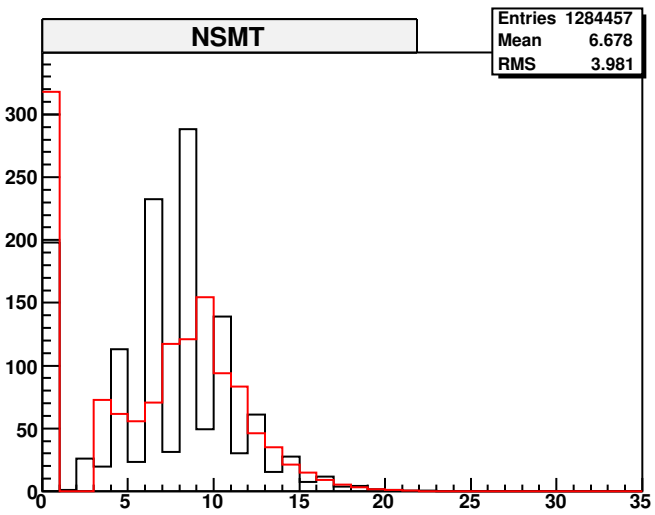

DCA (best vertex)
Entries 1284457
Mean -6.499e-05
RMS 0.06594

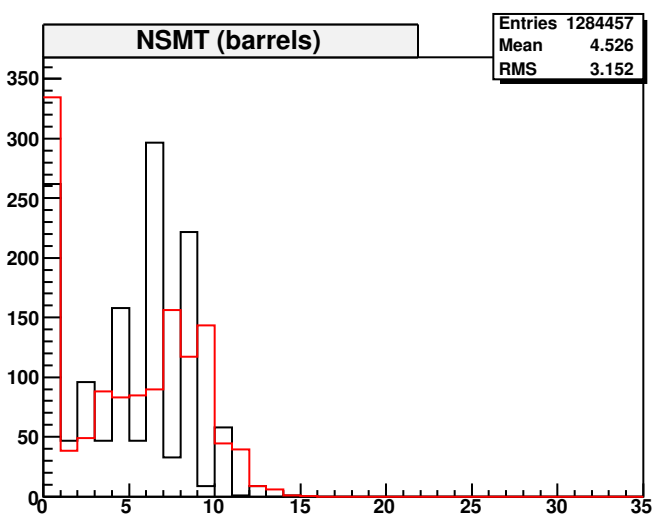

|DCA| (best vertex)
Entries 1284457
Mean 0.1975
RMS 0.4622

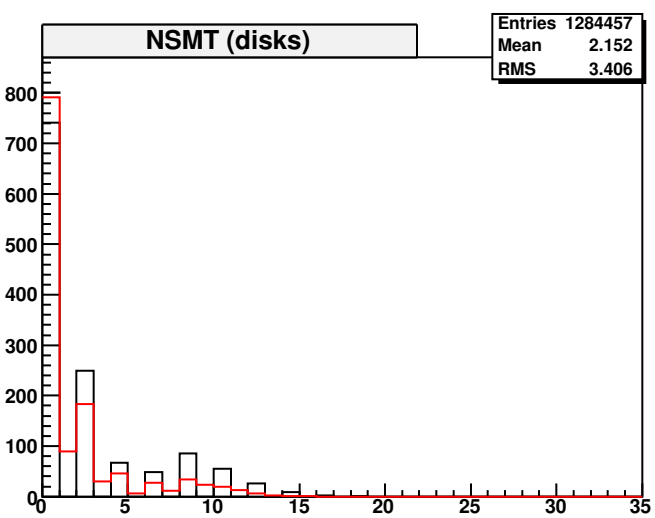

DCA pull (best vertex)
Entries 1284457
Mean -0.0007453
RMS 1.547

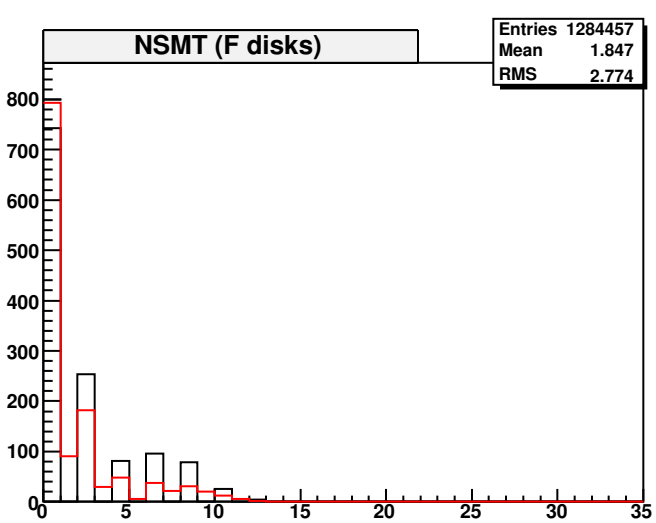
Tracks (All)

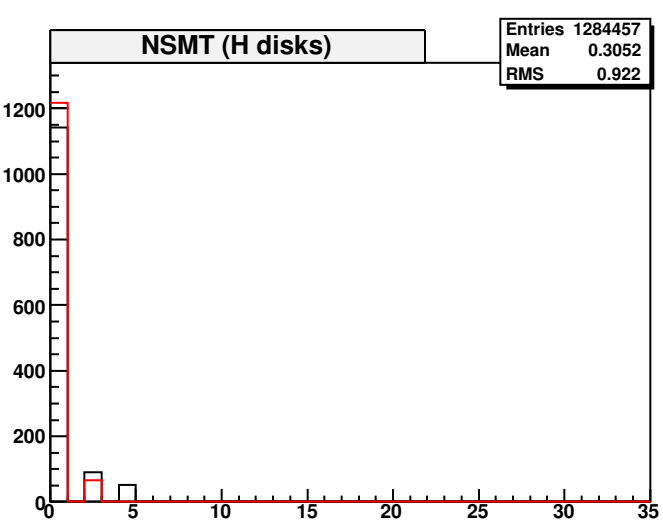




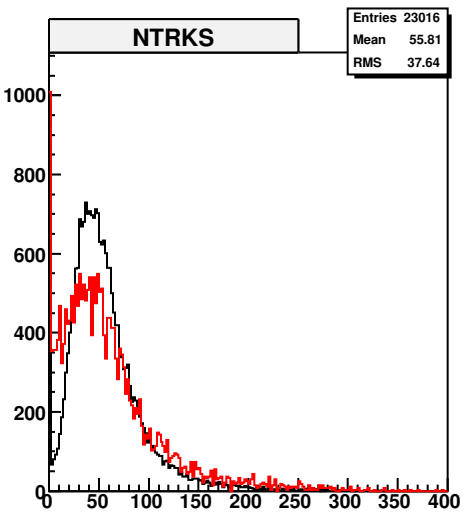


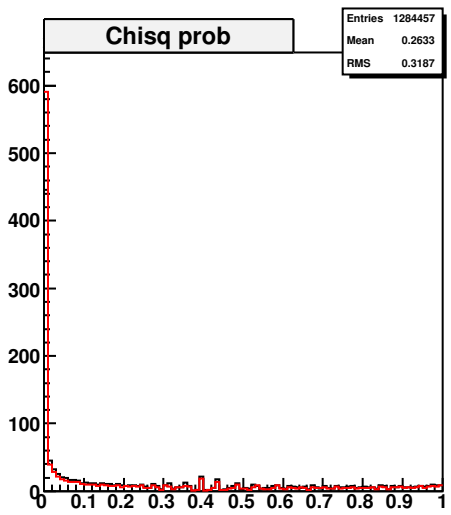


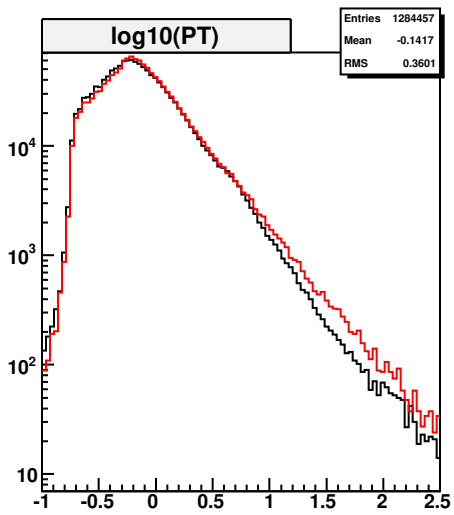


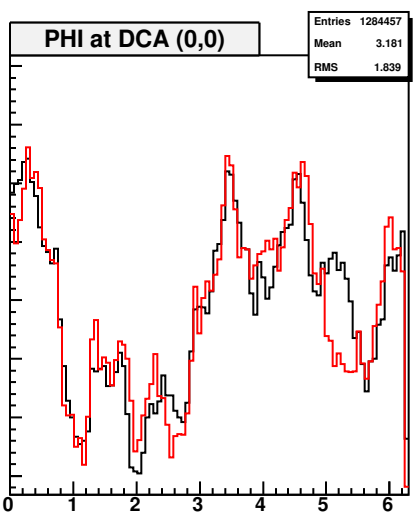


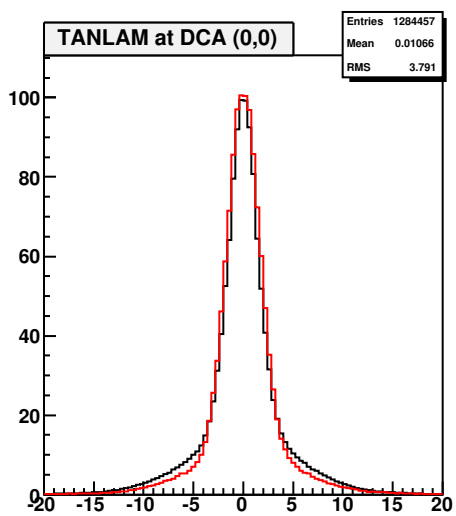
Track Hits (All)

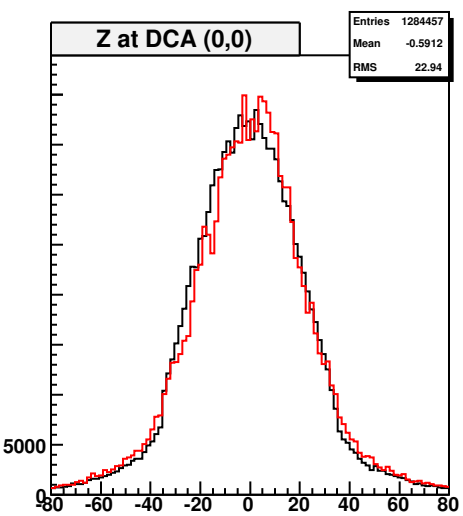


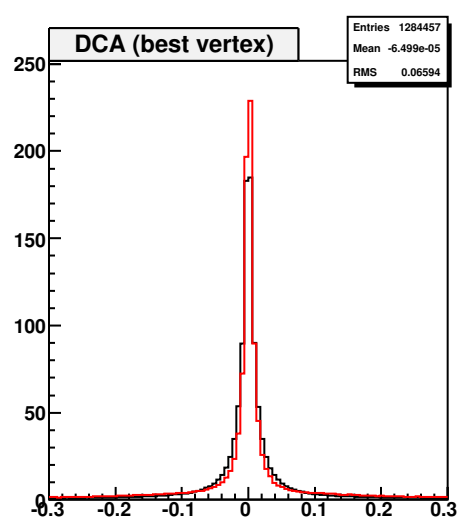


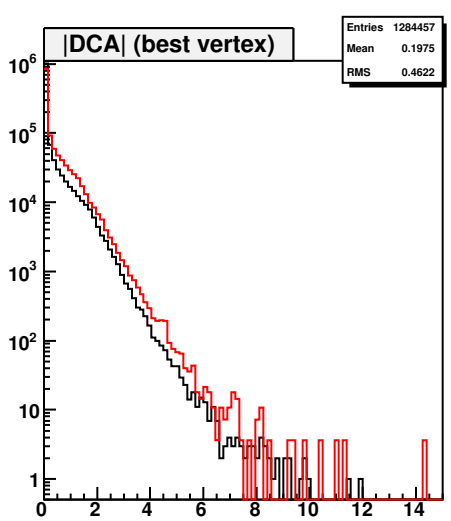


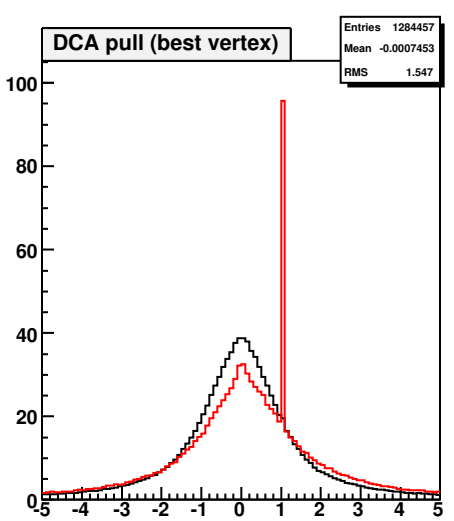




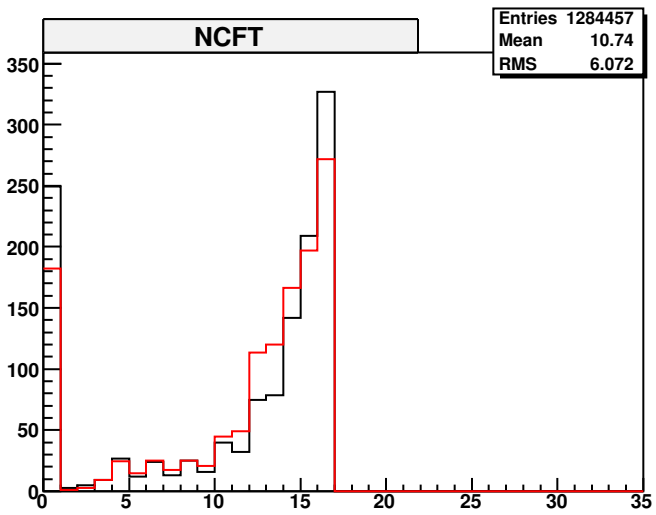


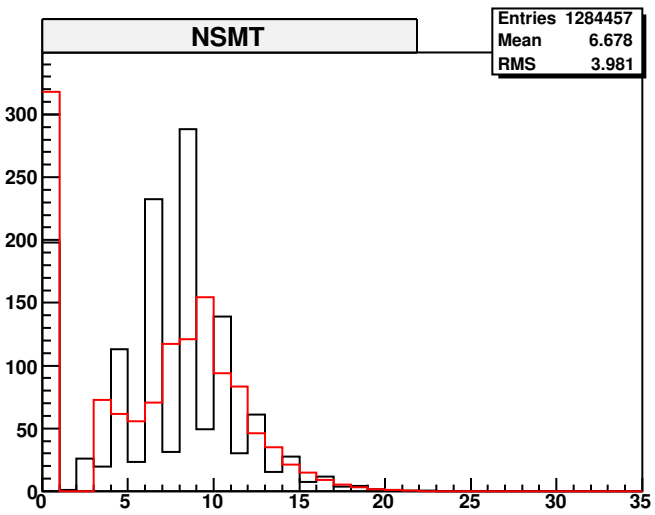


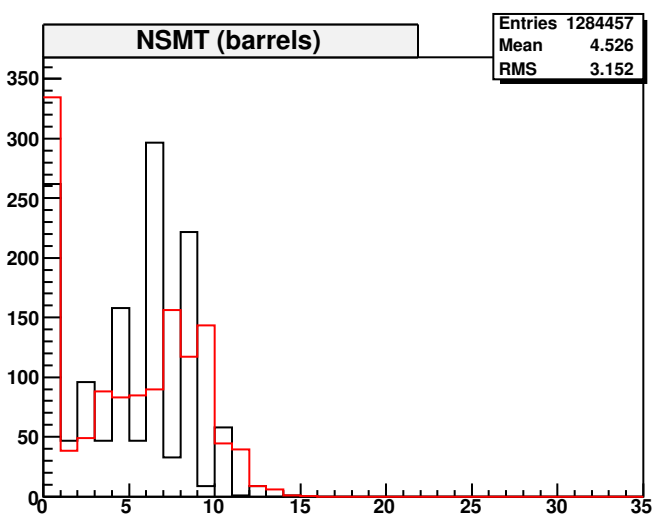


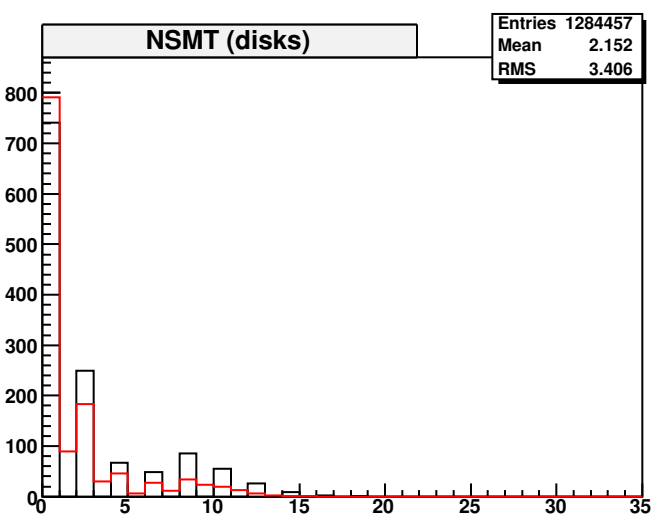


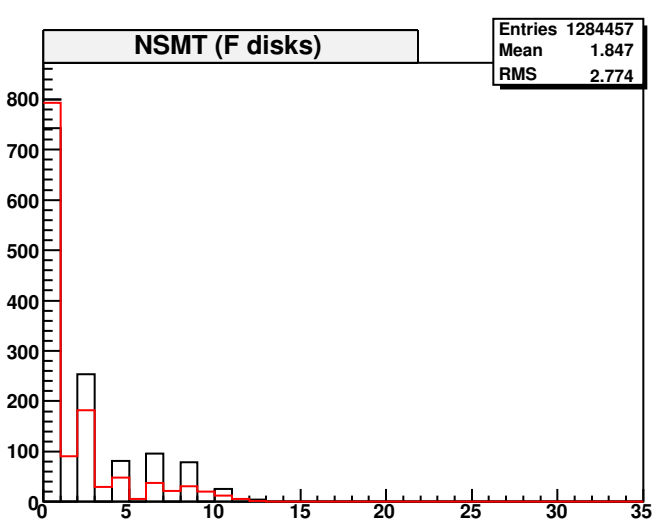
Tracks (Tight)

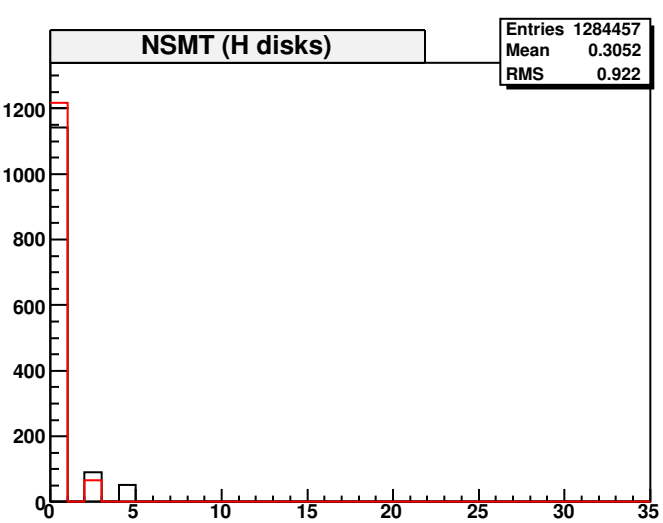




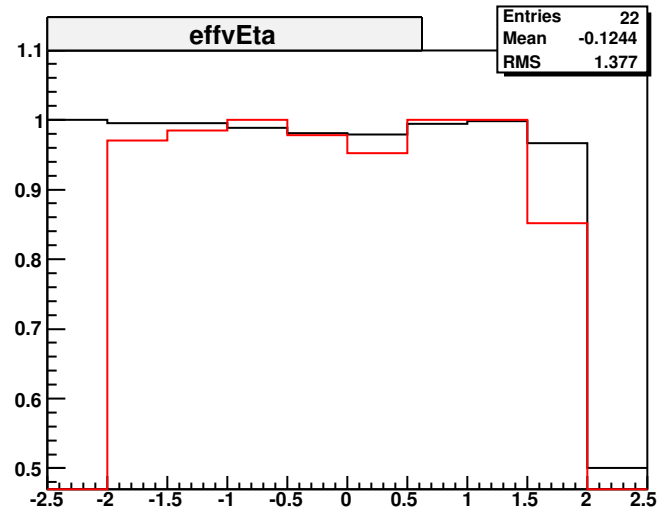


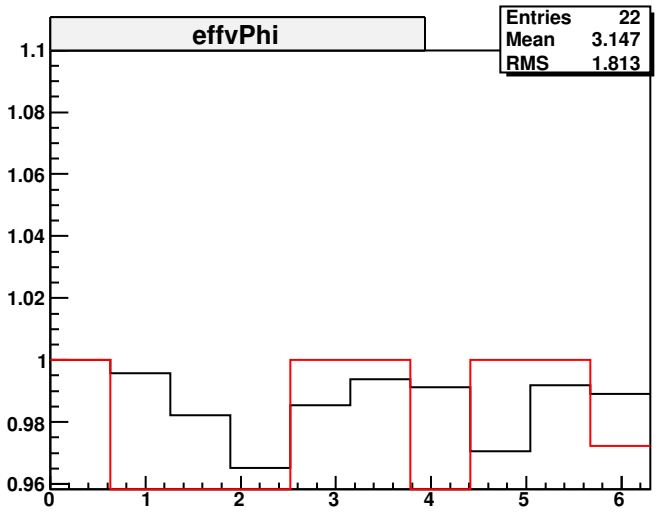


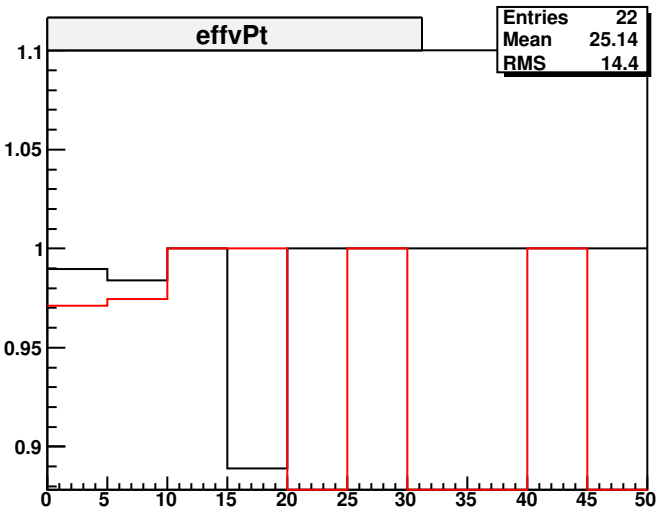


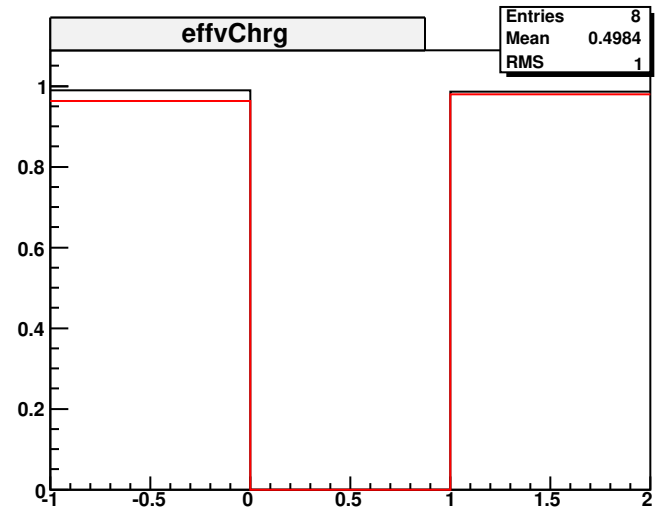


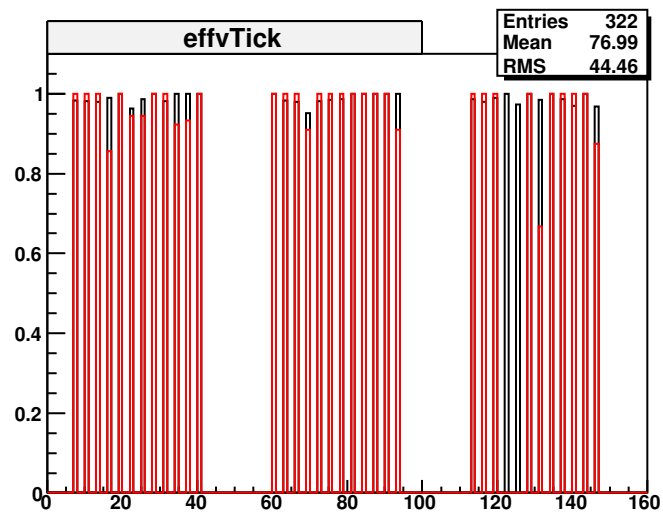
Track Hits (Tight)

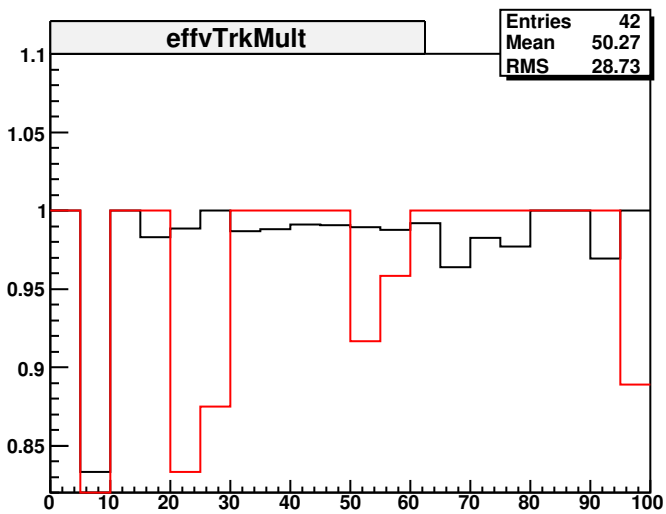




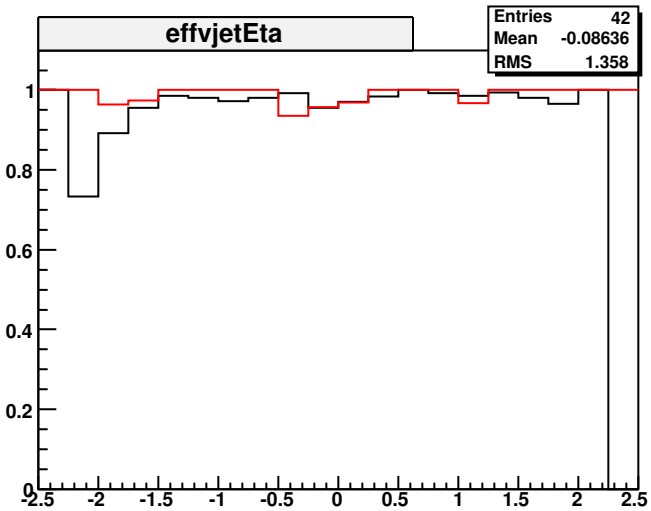


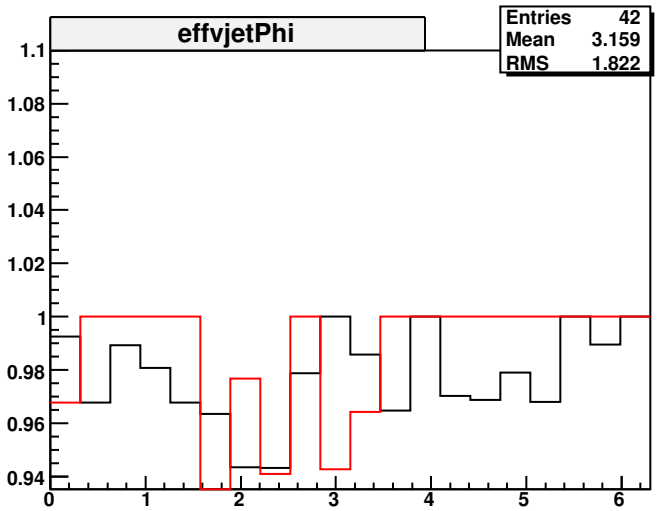


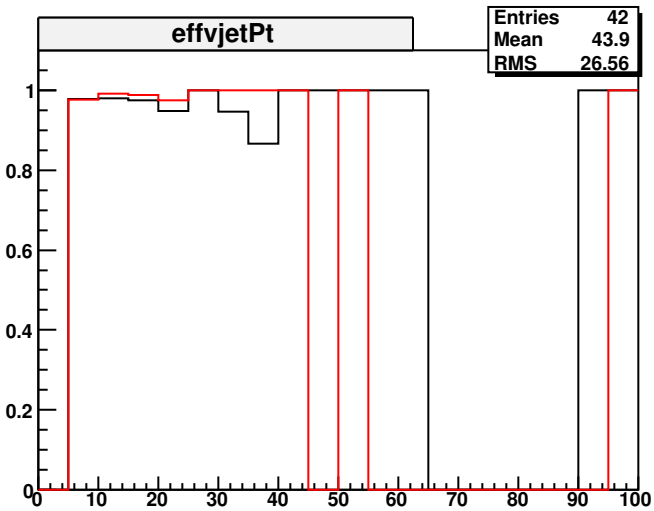




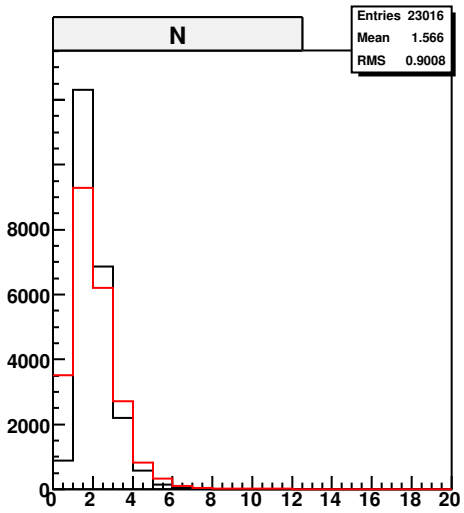
Tracking (Efficiency-Isolated)

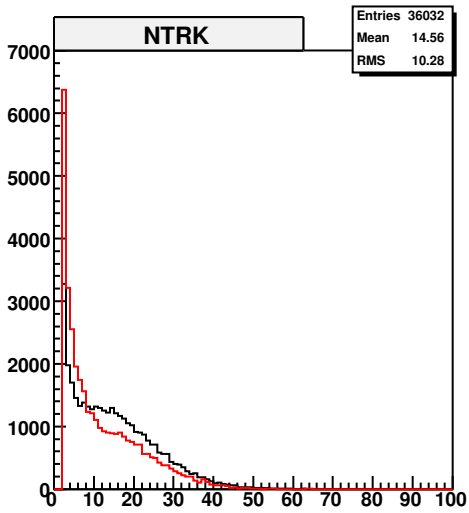


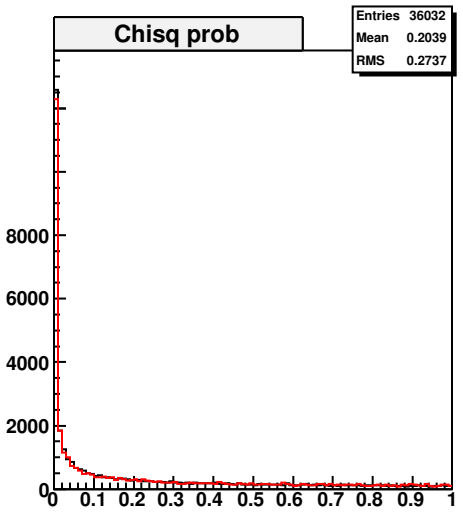


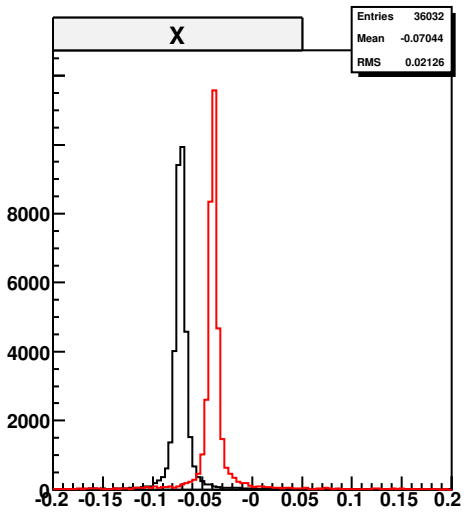


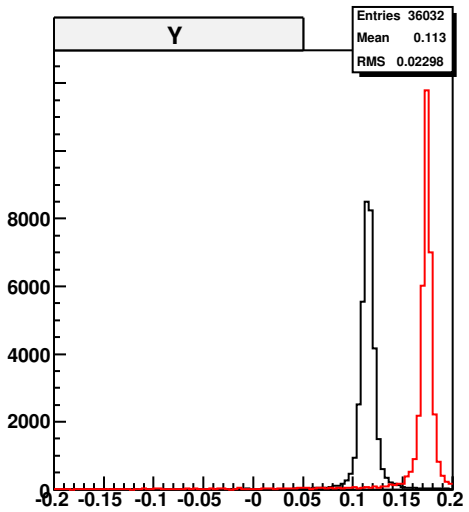
Tracking (Efficiency-InJets)

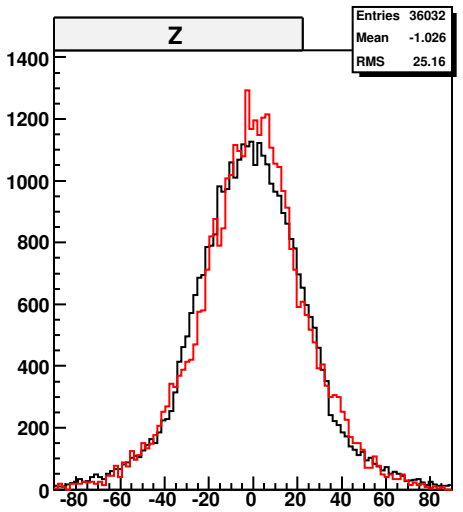


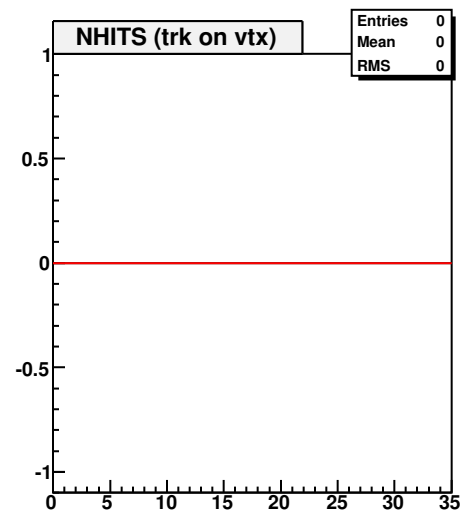


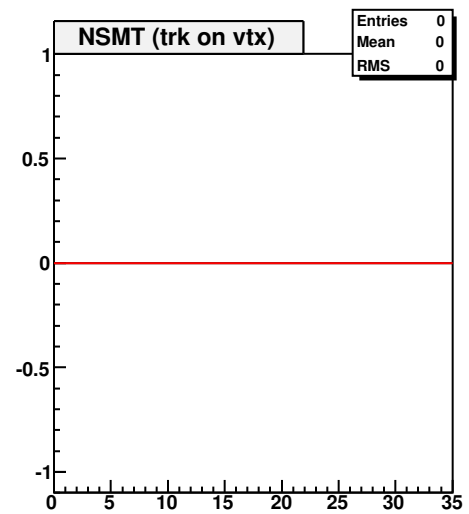


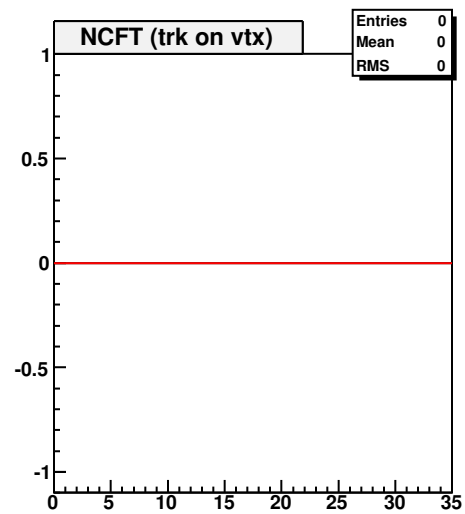




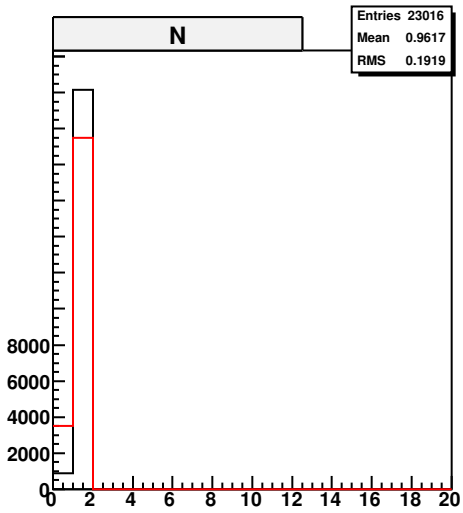


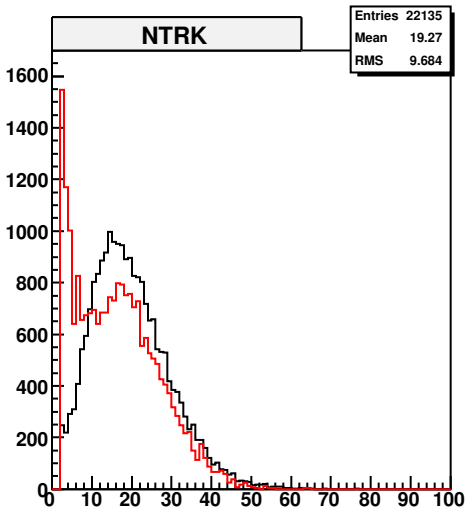


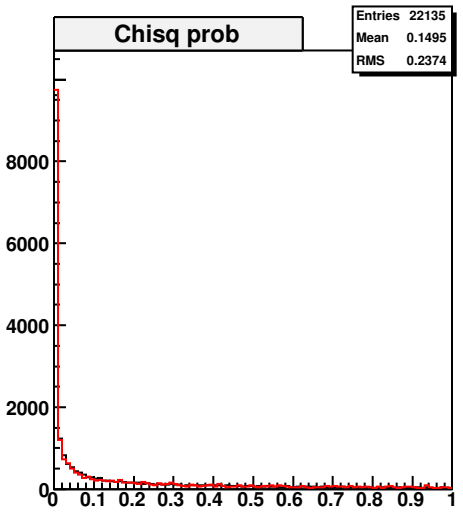


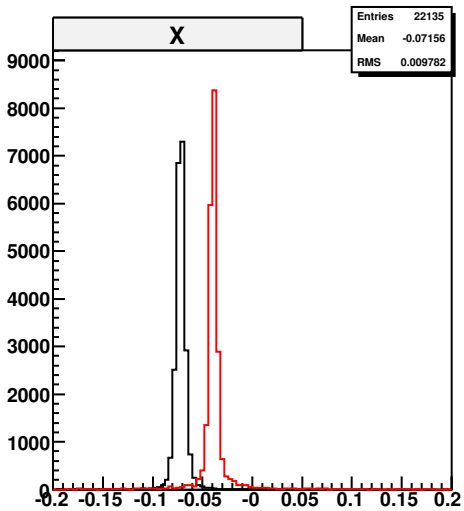


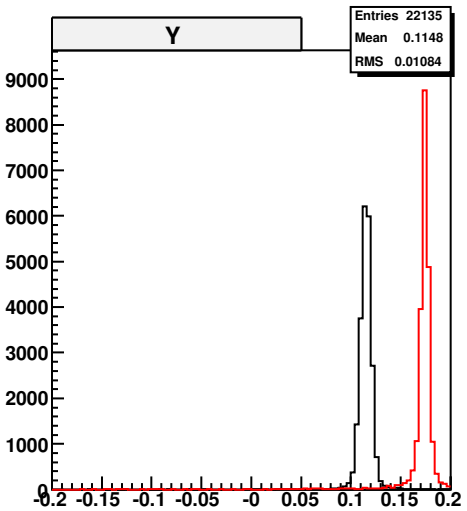
Vertices (Primary - all candidates)

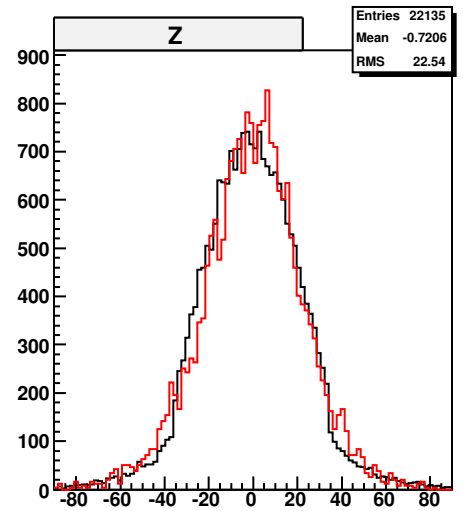


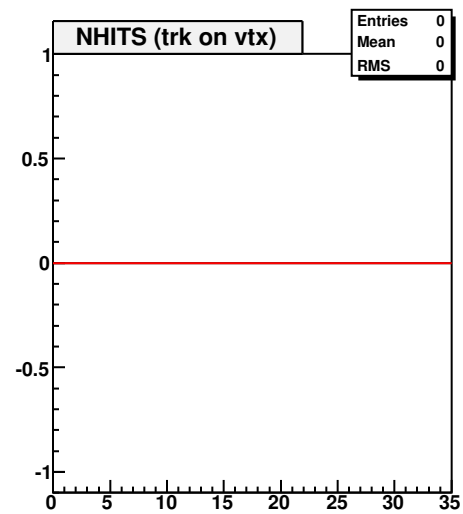


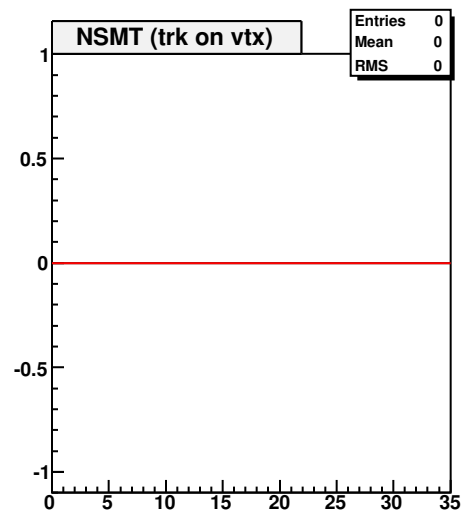


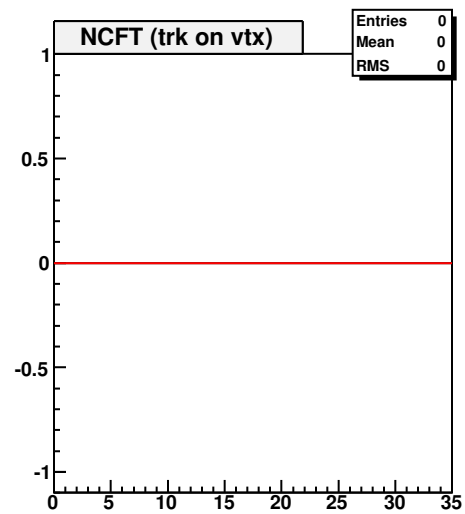




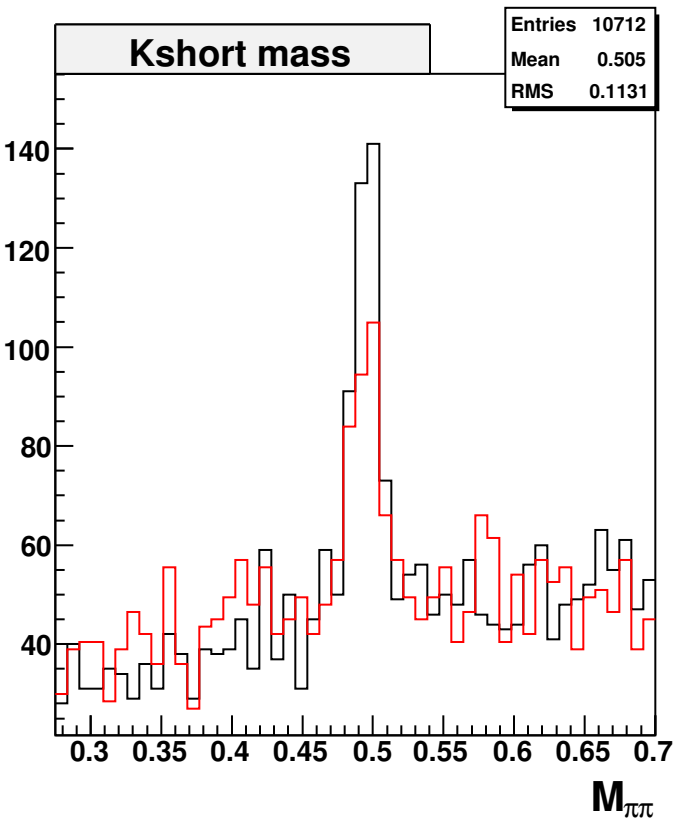


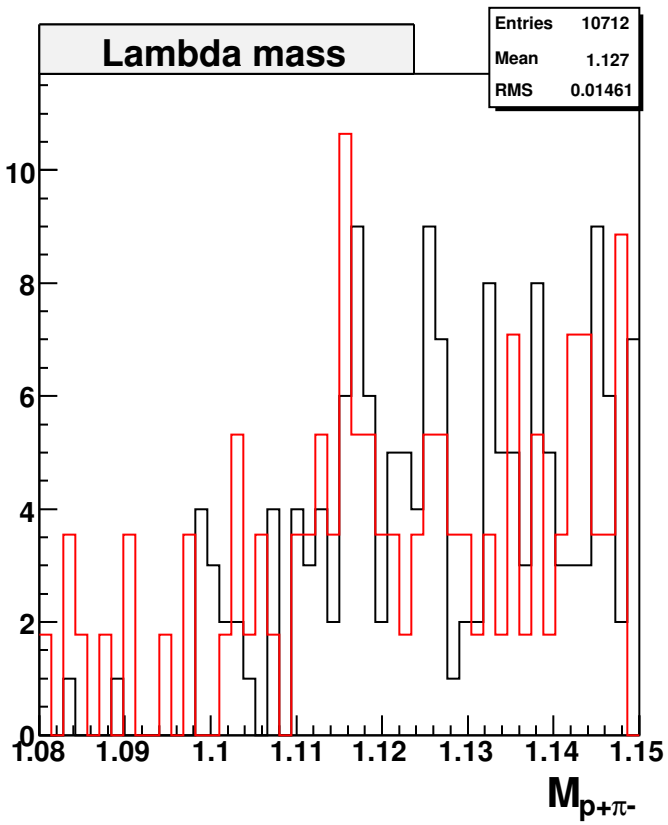


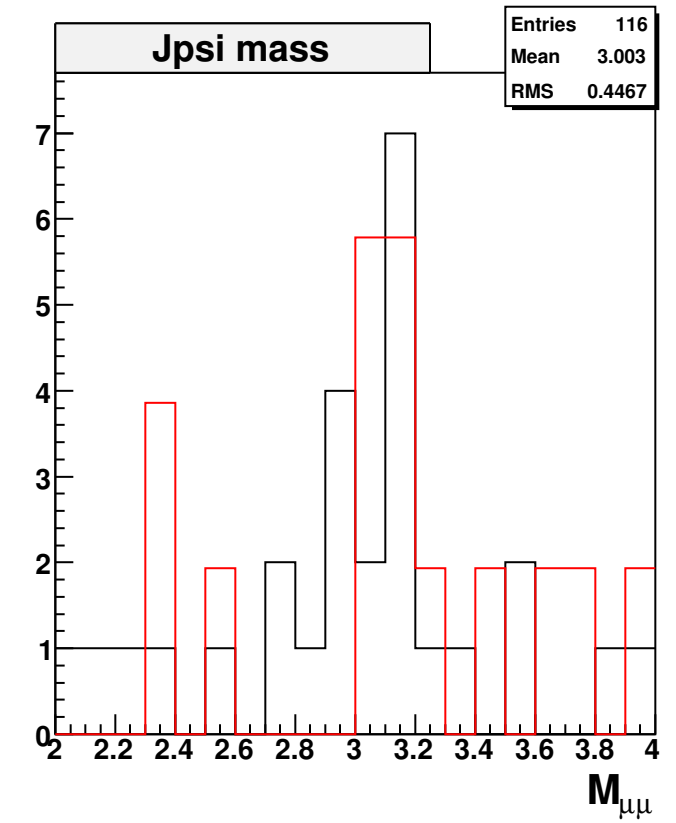


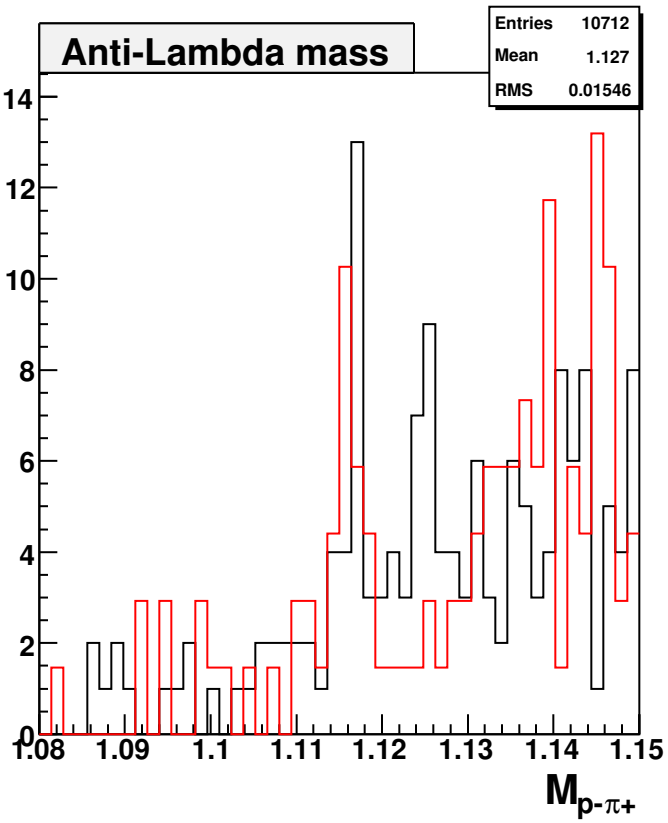


Vertices (Primary - best)

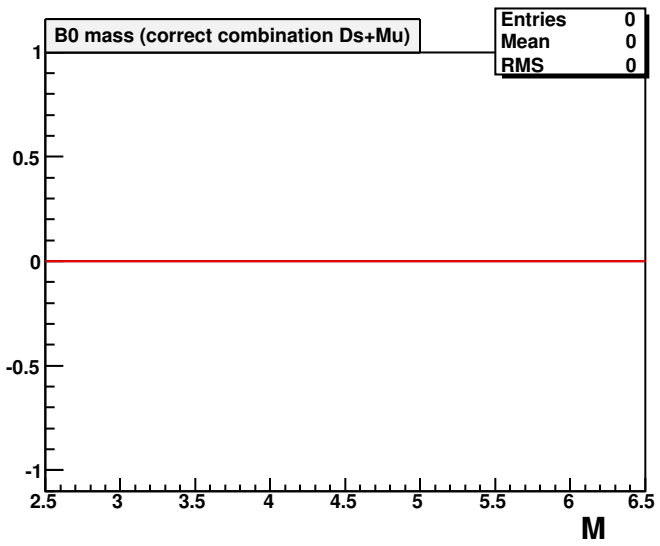

Kshort mass
Entries 10712
Mean 0.505
RMS 0.1131
140
120
100
80
60
40
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

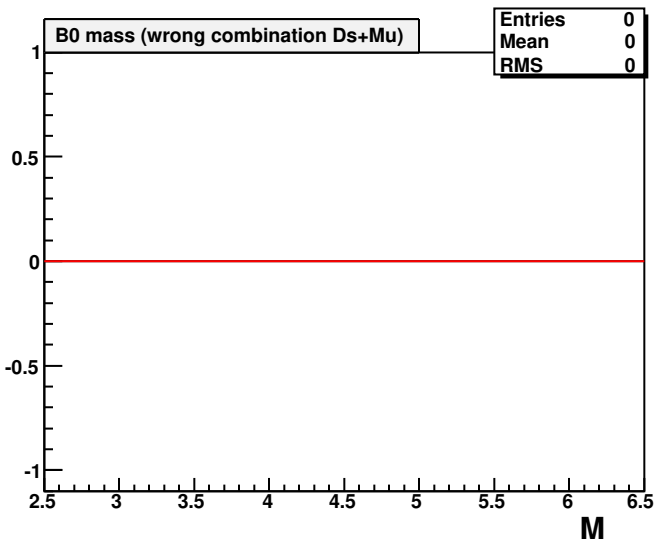

Lambda mass
Entries 10712
Mean 1.127
RMS 0.01461
10
8
6
4
2
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

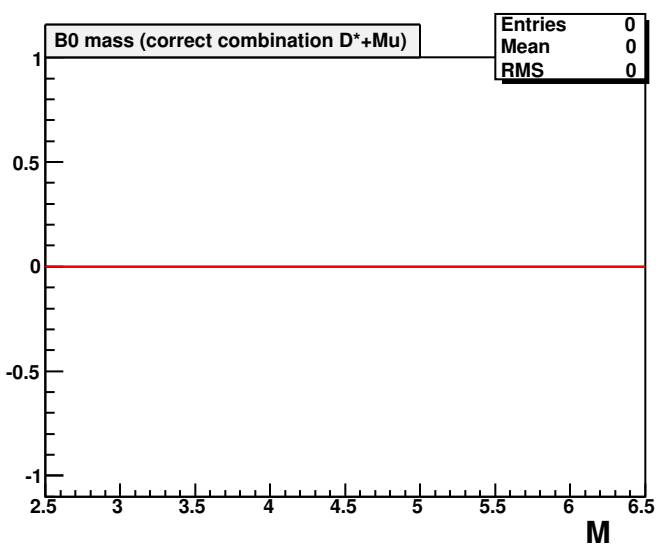

Jpsi mass
Entries 116
Mean 3.003
RMS 0.4467
7
6
5
4
3
2
1
0
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

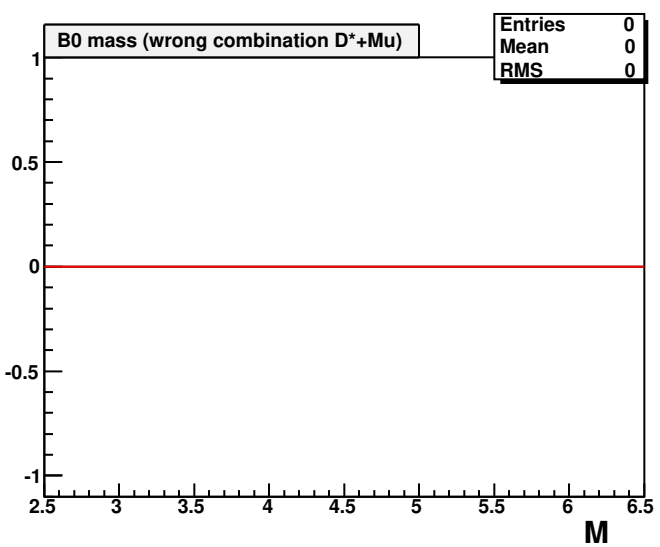

Anti-Lambda mass
Entries 10712
Mean 1.127
RMS 0.01546
14
12
10
8
6
4
2
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

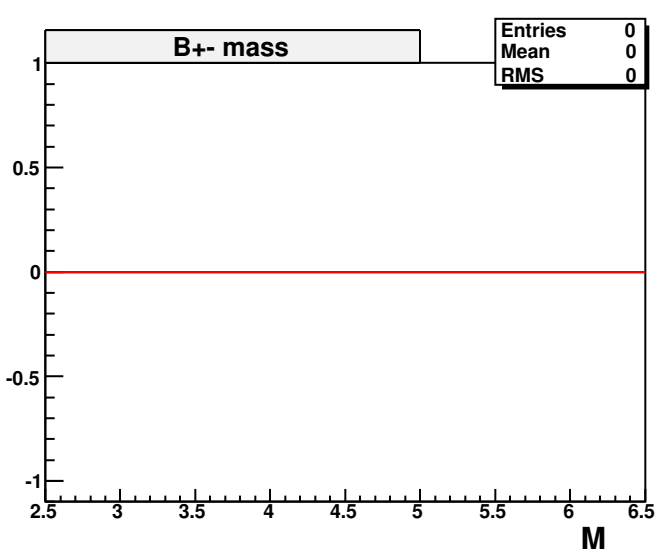
V0 (All)



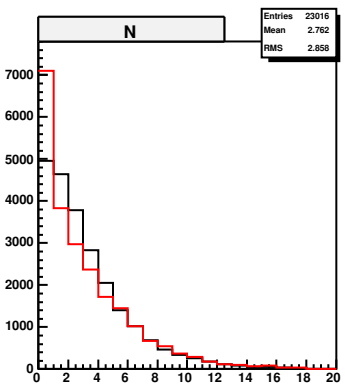


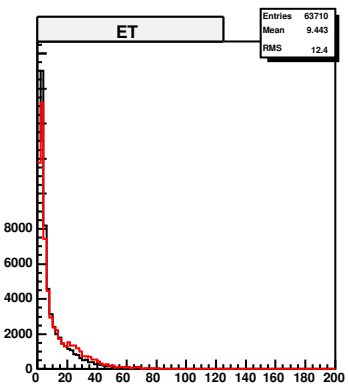


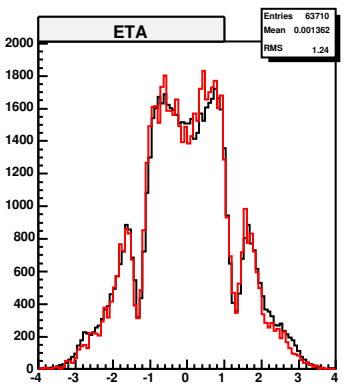


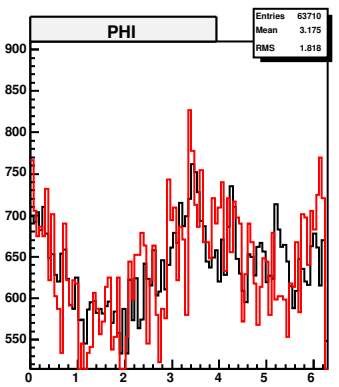


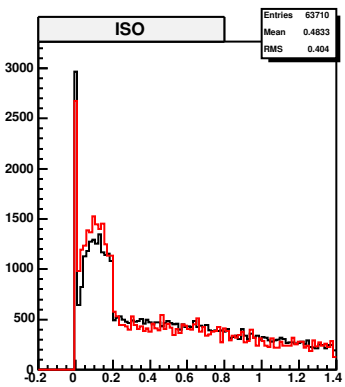
V0(B mesons) (All)

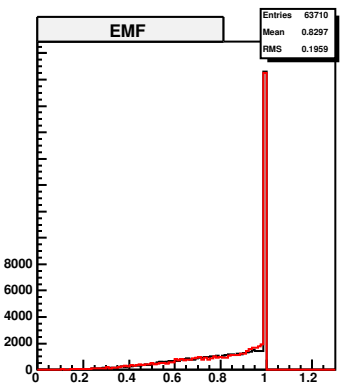


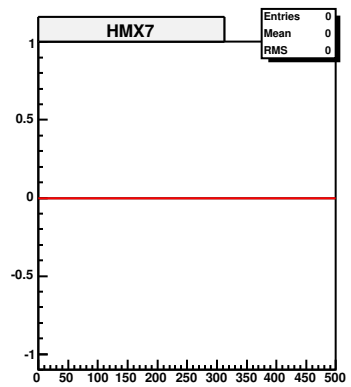


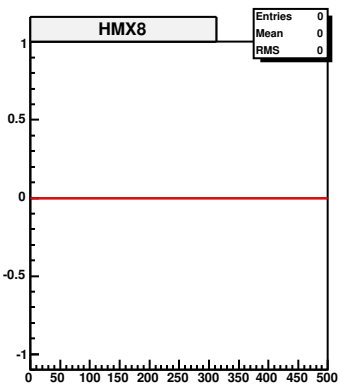


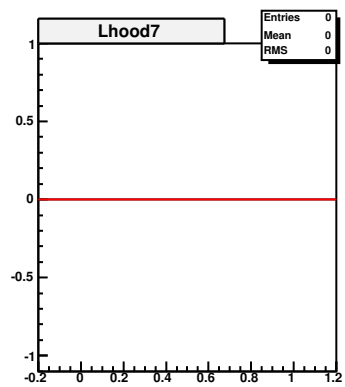


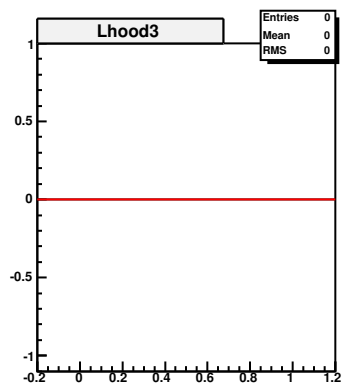


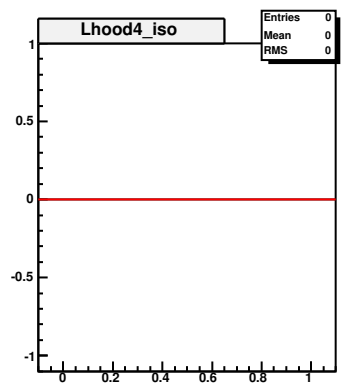


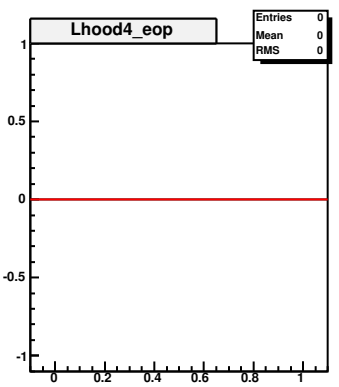


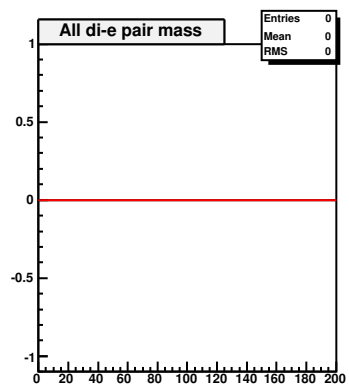


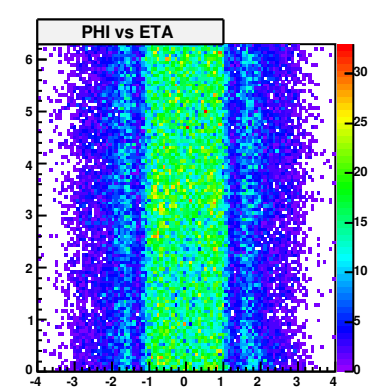


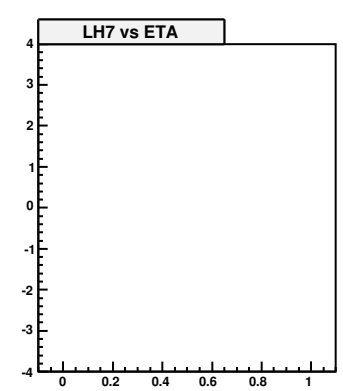


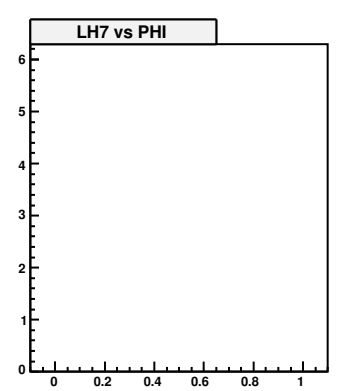




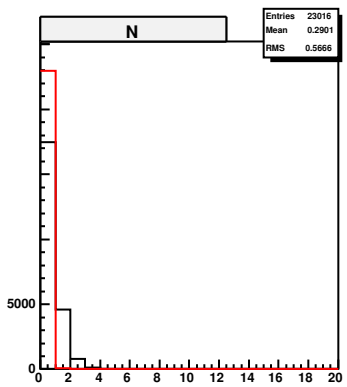


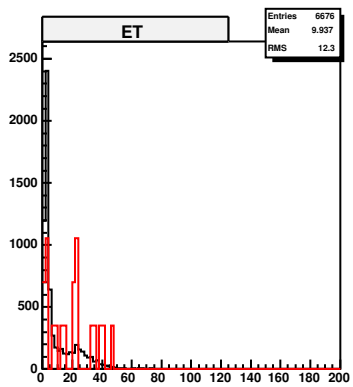


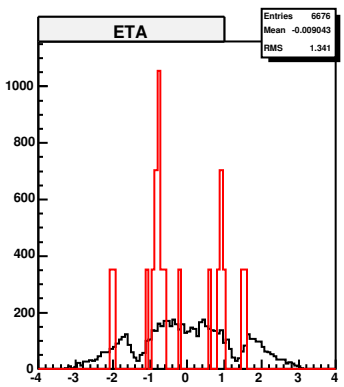


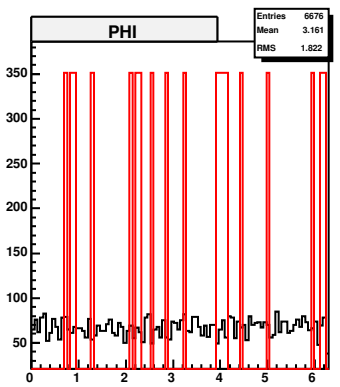


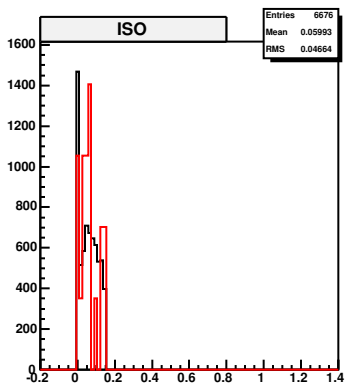
Electrons (SCONE All)

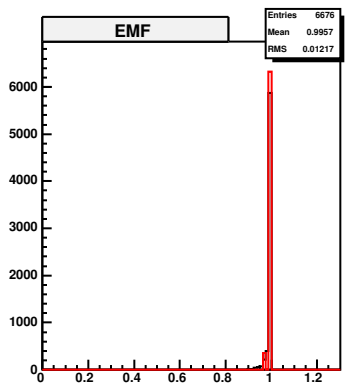


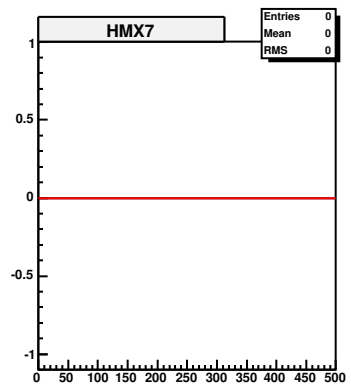


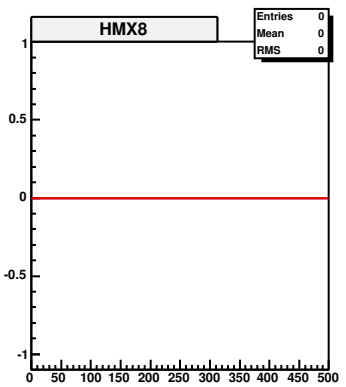


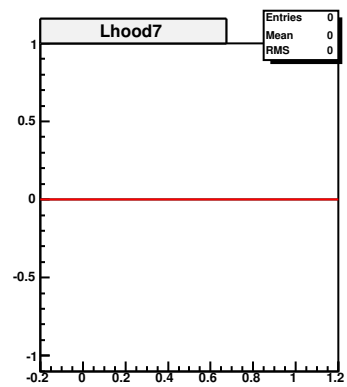


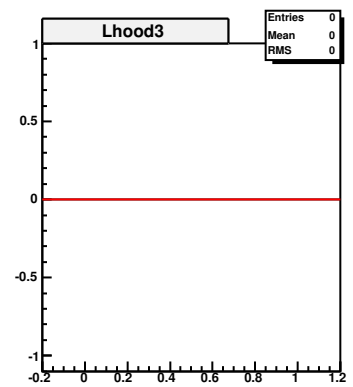


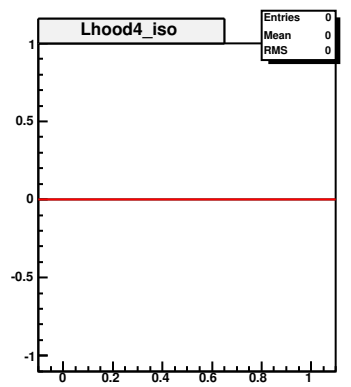


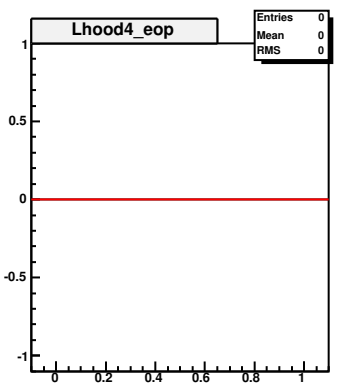


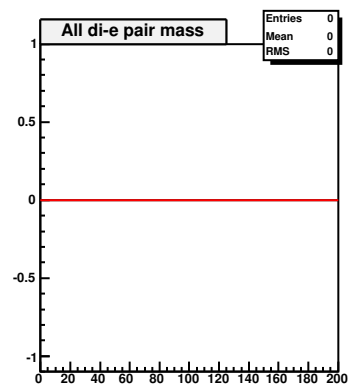


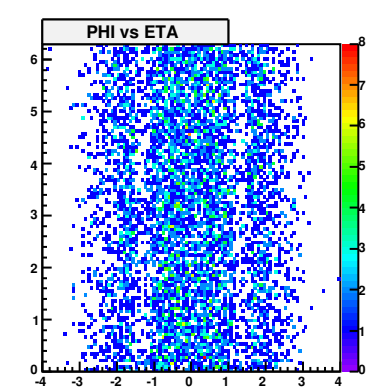


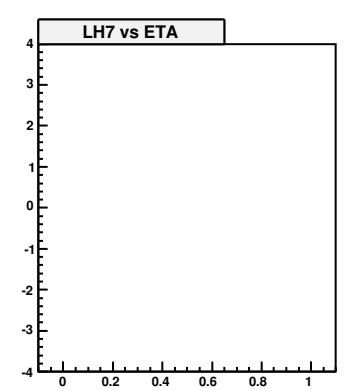


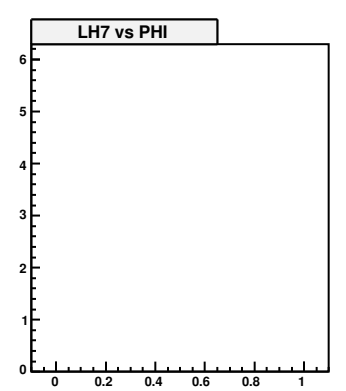




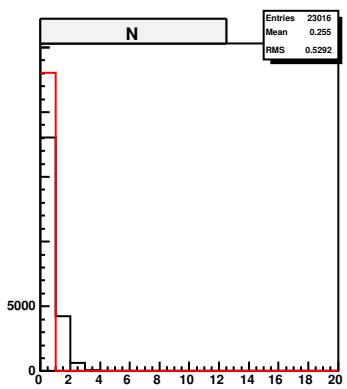


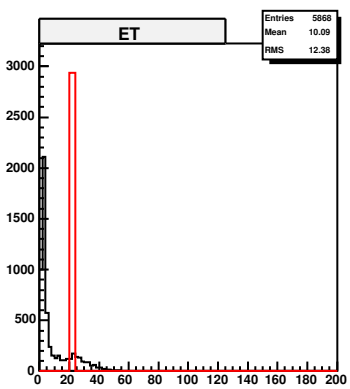


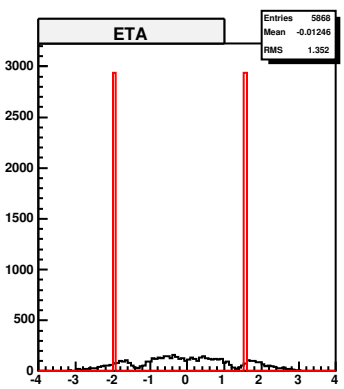


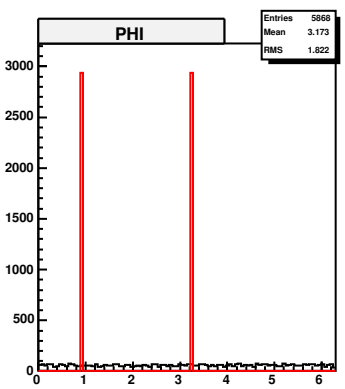


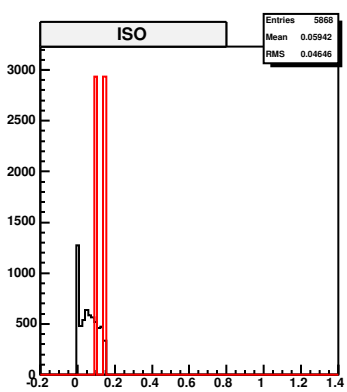
Electrons (SCONE Loose)

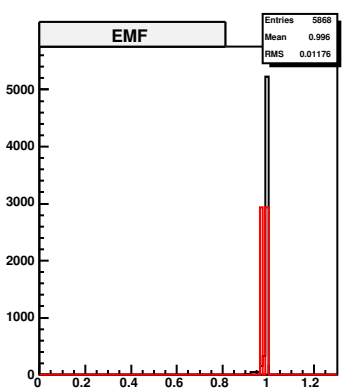


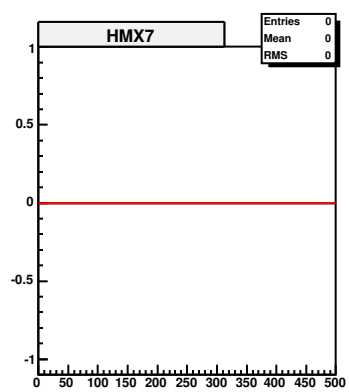


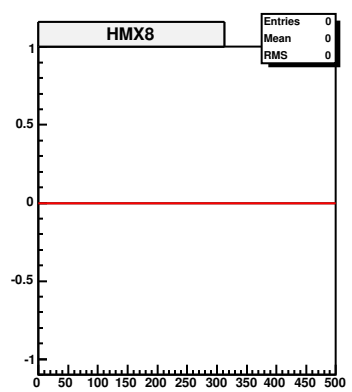


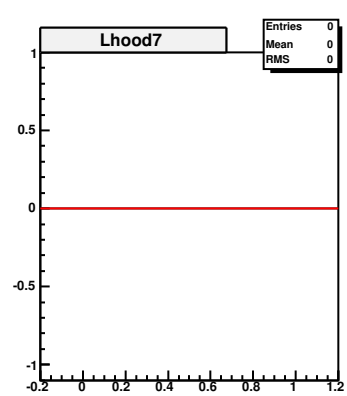


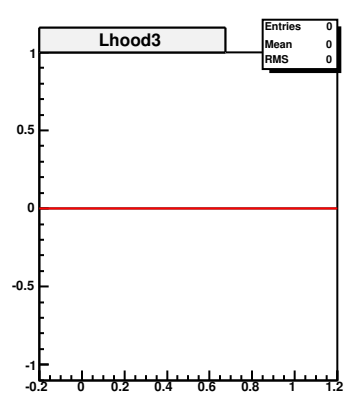


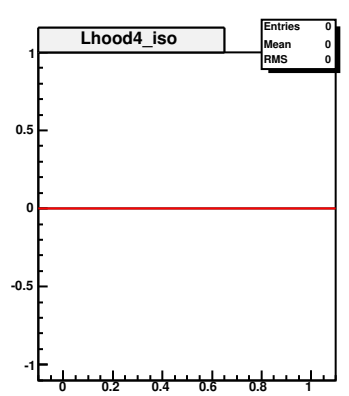


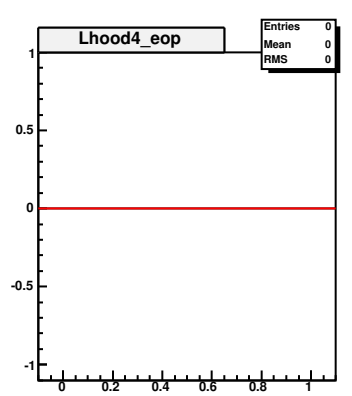


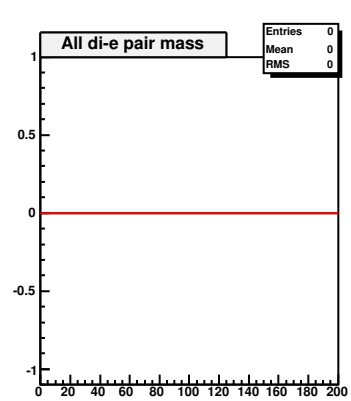


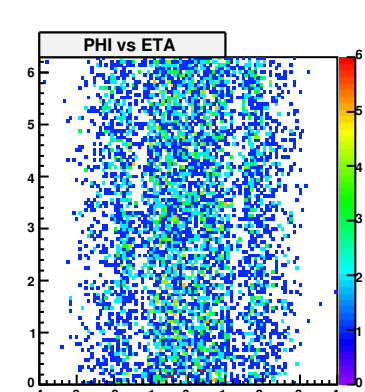


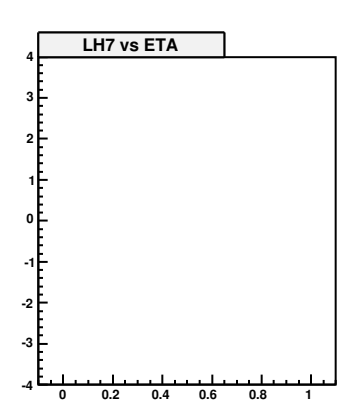


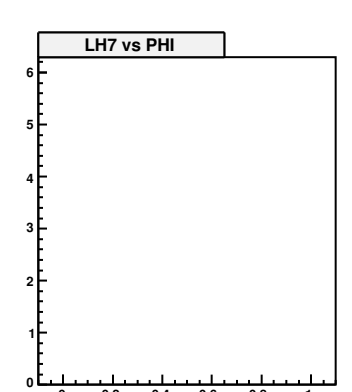




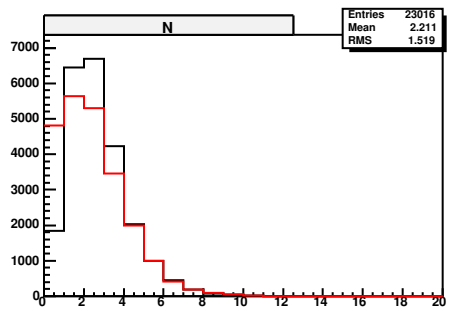


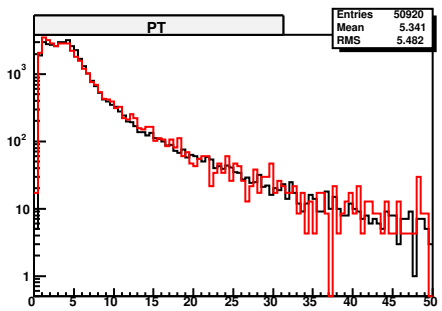


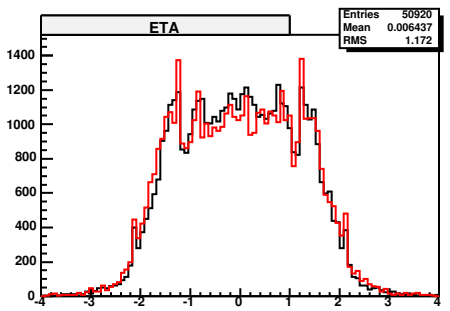


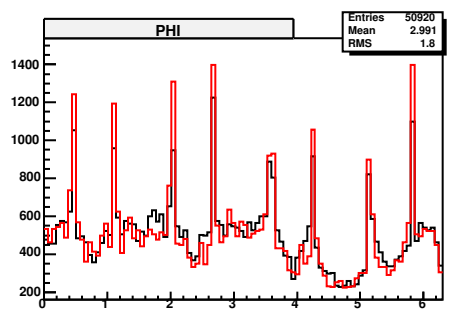


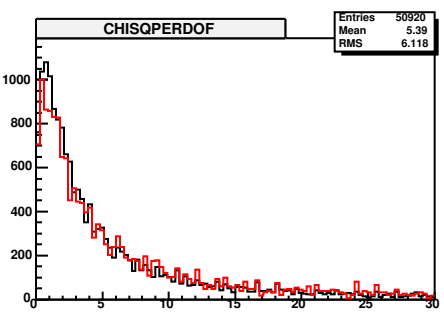
Electrons (SCONE Tight)

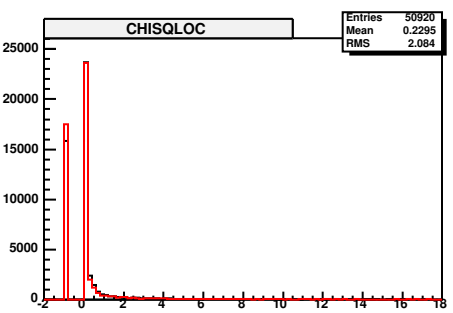

N
Entries 23016
Mean 2.211
RMS 1.519

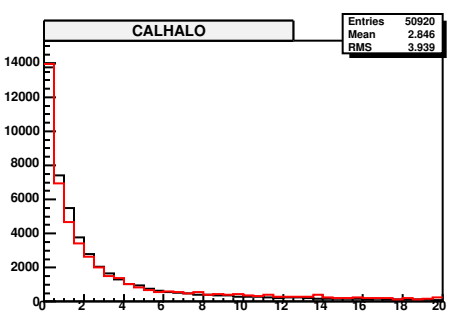

PT
Entries 50920
Mean 5.341
RMS 5.482

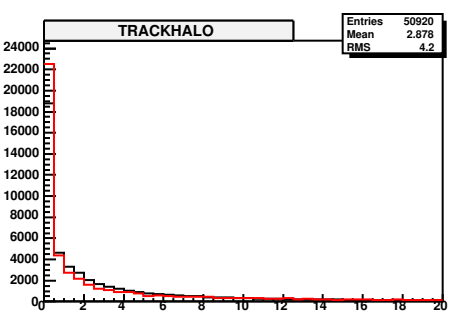

ETA
Entries 50920
Mean 0.006437
RMS 1.172

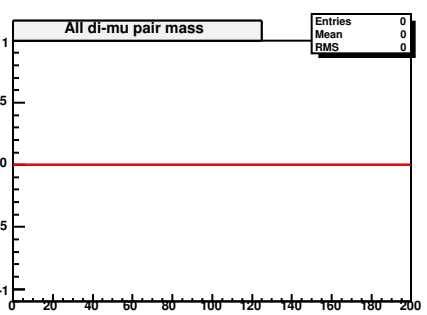

PHI
Entries 50920
Mean 2.991
RMS 1.8

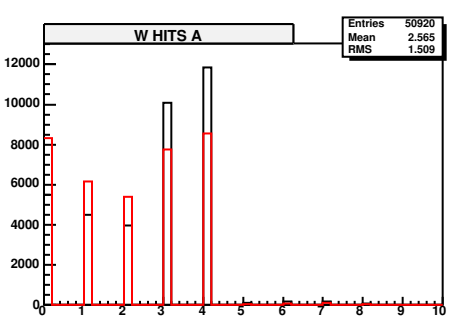

CHISQPERDOF
Entries 50920
Mean 5.39
RMS 6.118

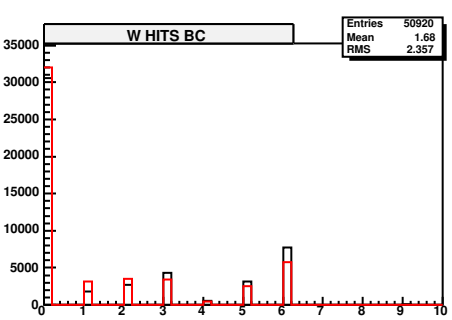

CHISQLOC
Entries 50920
Mean 0.2295
RMS 2.084

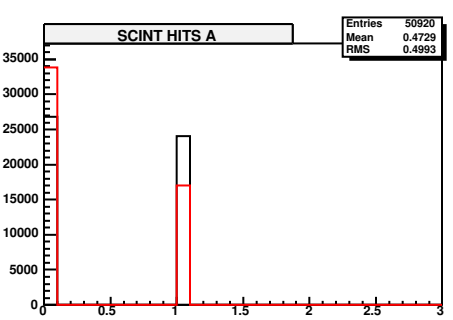

CALHALO
Entries 50920
Mean 2.846
RMS 3.939

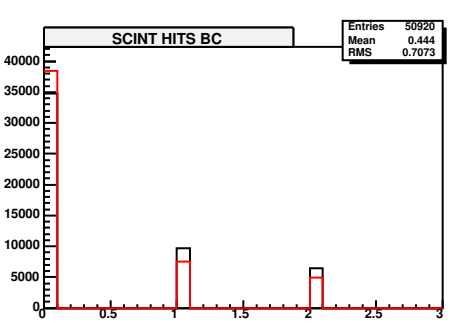

TRACKHALO
Entries 50920
Mean 2.878
RMS 4.2


All di-mu pair mass
Entries 0
Mean 0
RMS 0

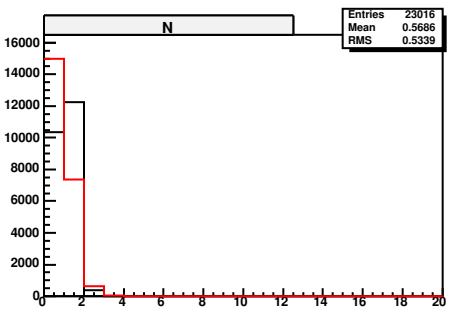

W HITS A
Entries 50920
Mean 2.565
RMS 1.509

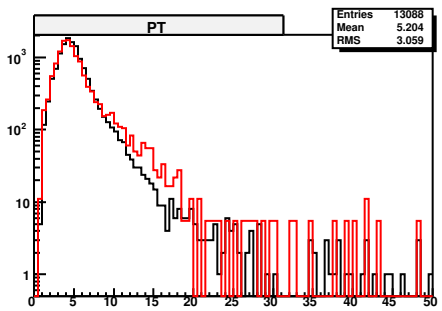

W HITS BC
Entries 50920
Mean 1.68
RMS 2.357

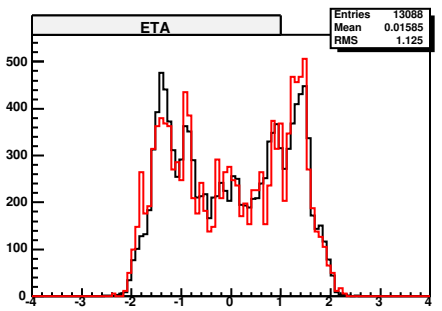

SCINT HITS A
Entries 50920
Mean 0.4729
RMS 0.4993

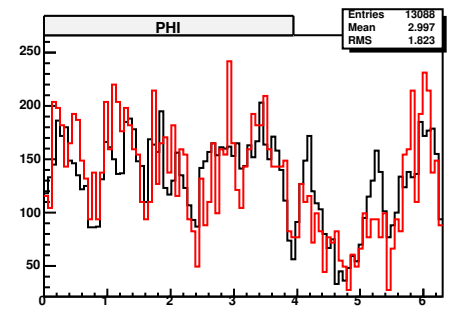

SCINT HITS BC
Entries 50920
Mean 0.444
RMS 0.7073

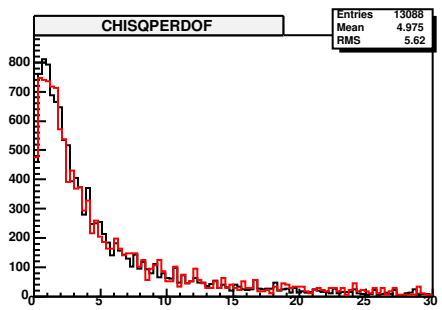
Muons (All)

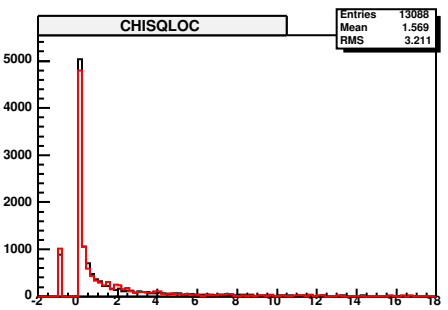


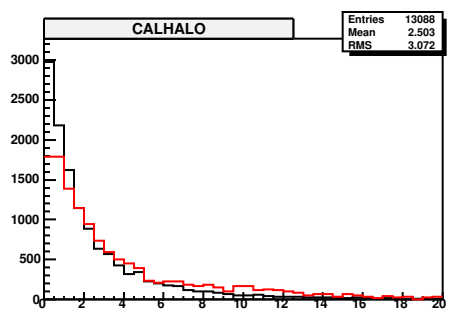


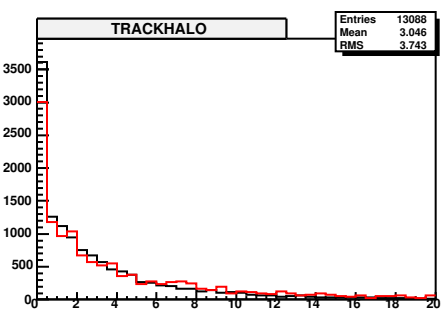


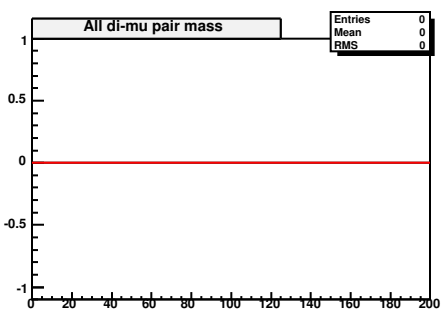


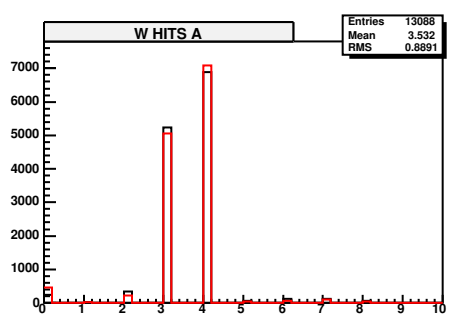


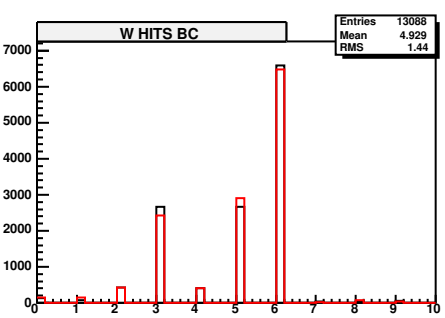


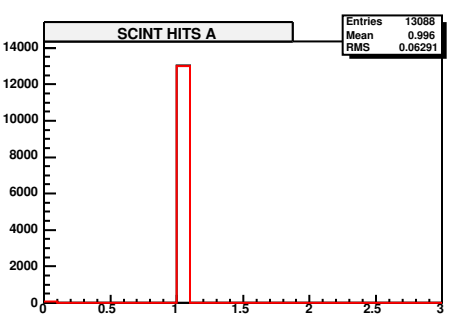


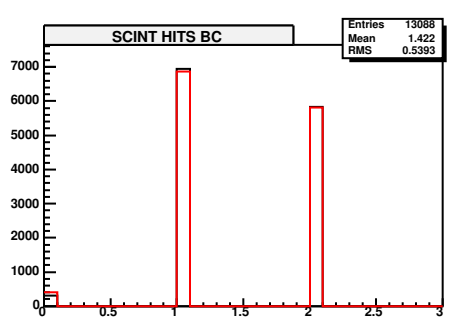




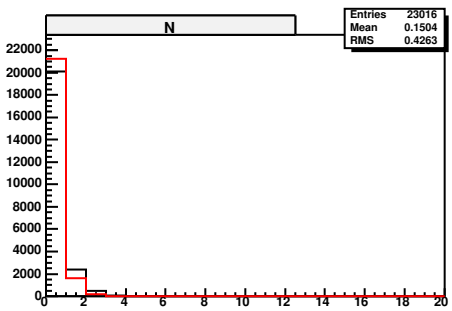


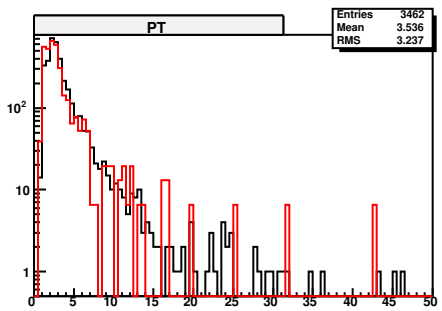


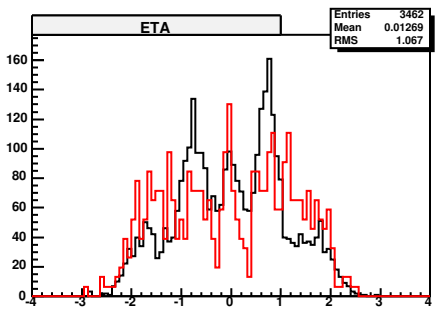


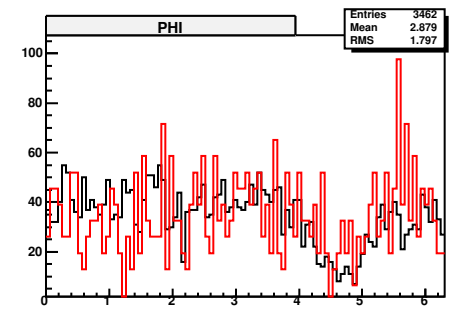


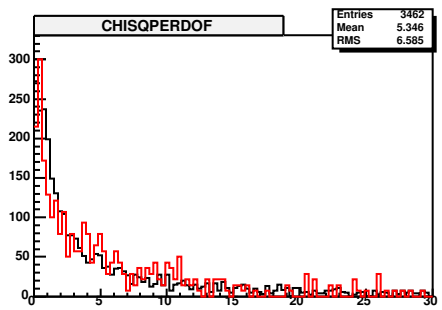
Muons (Matched)

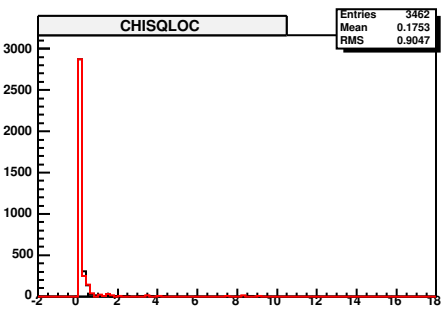

N
Entries 23016
Mean 0.1504
RMS 0.4263

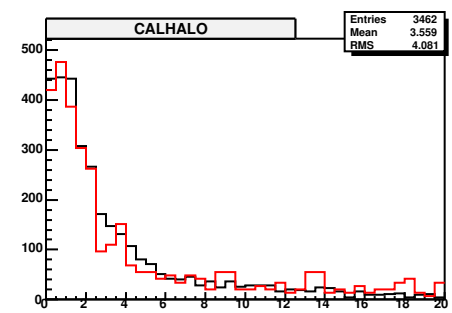

PT
Entries 3462
Mean 3.536
RMS 3.237

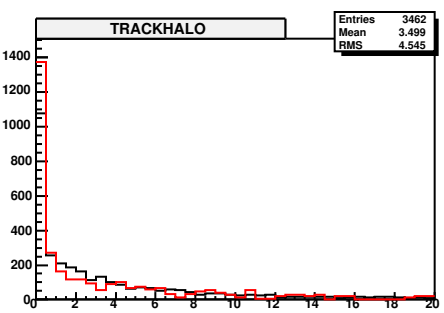

ETA
Entries 3462
Mean 0.01269
RMS 1.067

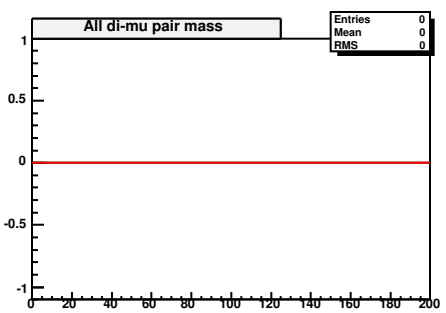

PHI
Entries 3462
Mean 2.879
RMS 1.797

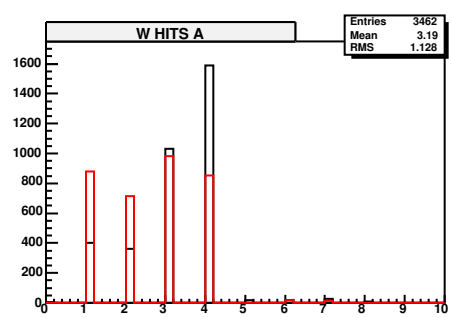

CHISQPERDOF
Entries 3462
Mean 5.346
RMS 6.585

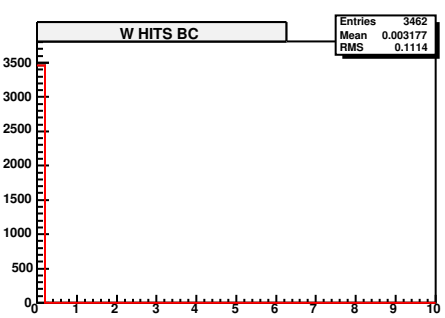

CHISQLOC
Entries 3462
Mean 0.1753
RMS 0.9047

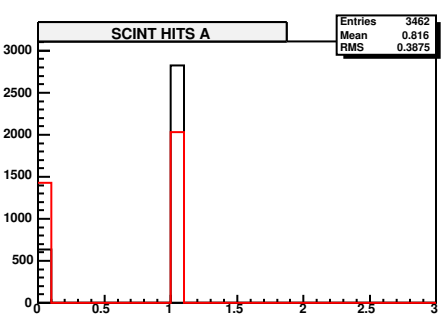

CALHALO
Entries 3462
Mean 3.559
RMS 4.081

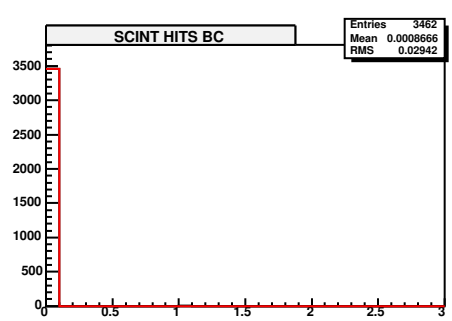

TRACKHALO
Entries 3462
Mean 3.499
RMS 4.545


All di-mu pair mass
Entries 0
Mean 0
RMS 0

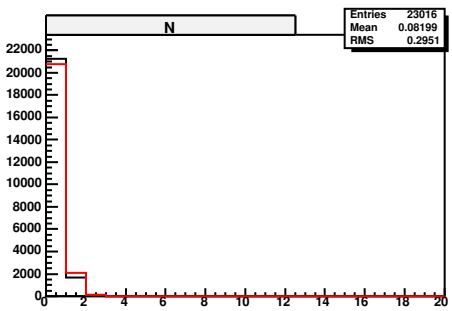

W HITS A
Entries 3462
Mean 3.19
RMS 1.128

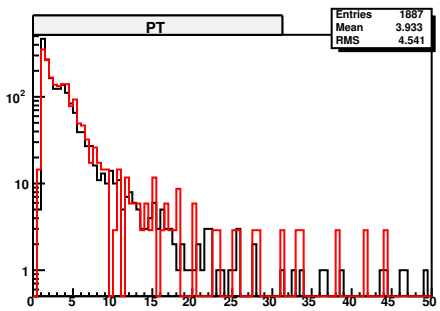

W HITS BC
Entries 3462
Mean 0.003177
RMS 0.1114

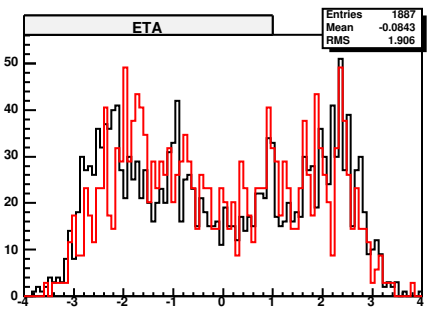

SCINT HITS A
Entries 3462
Mean 0.816
RMS 0.3875

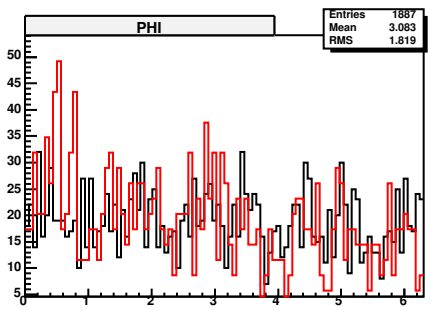

SCINT HITS BC
Entries 3462
Mean 0.0008666
RMS 0.02942

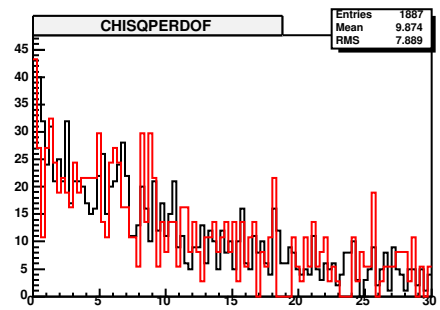
Muons (Astub)

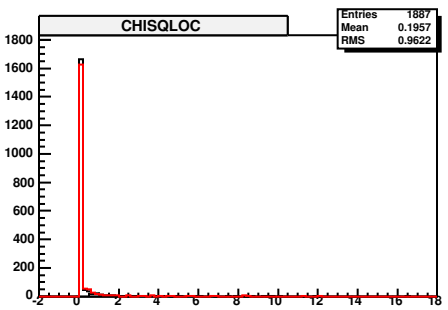


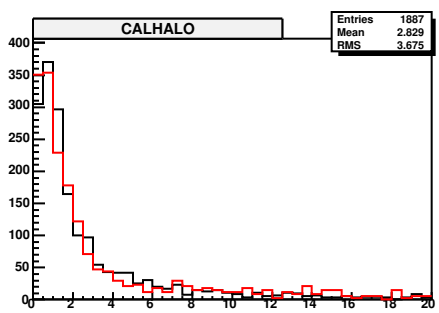


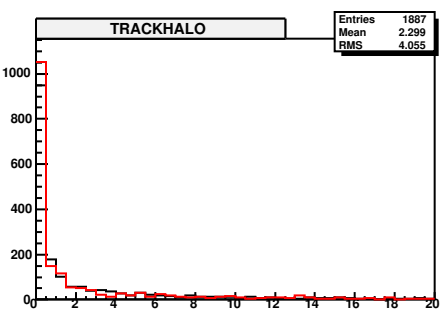


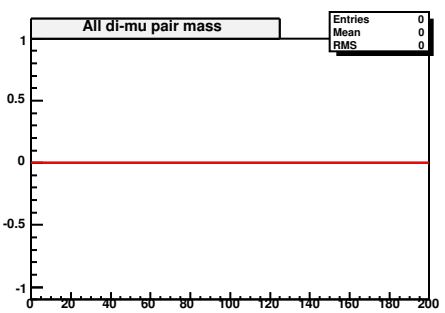


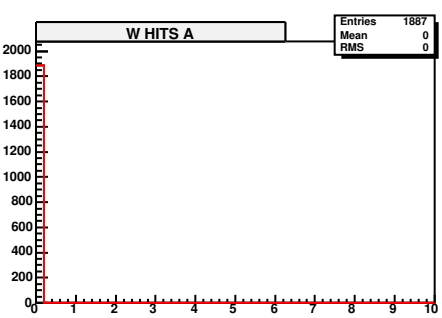


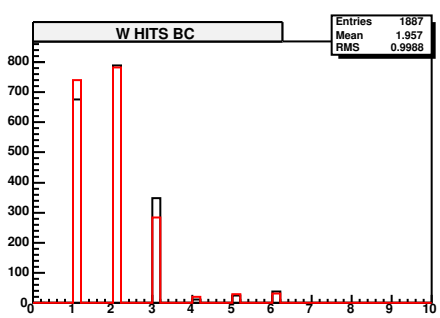


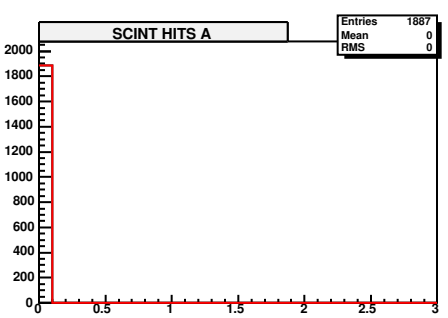


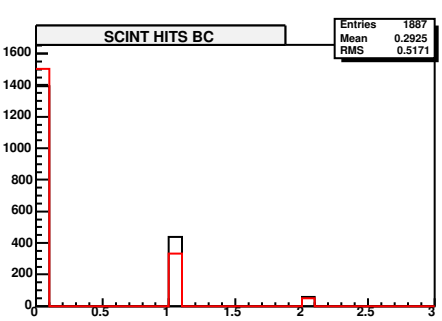




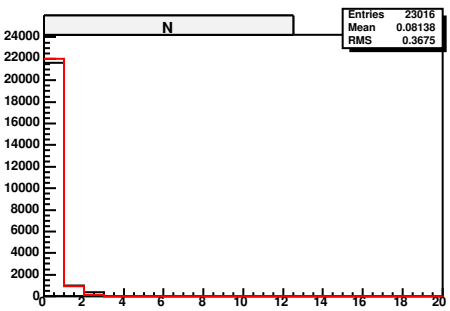


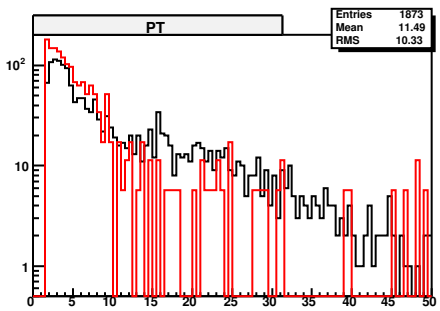


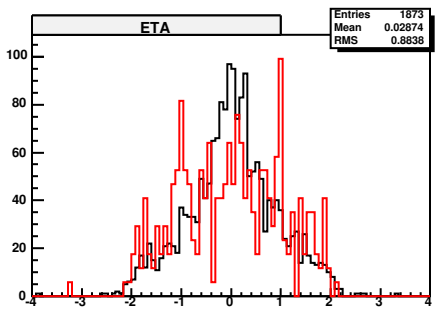


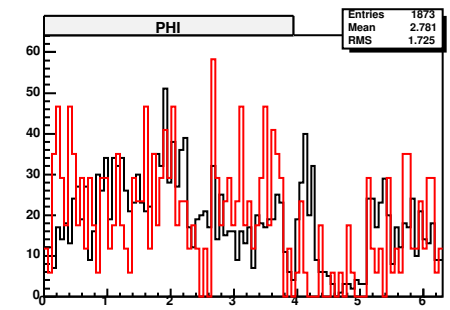


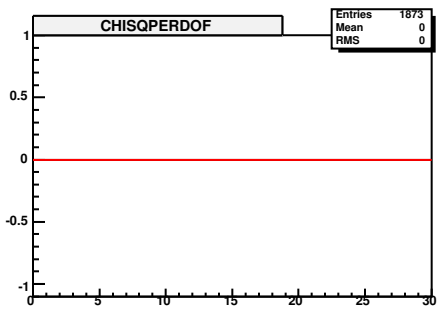
Muons (BCstub)

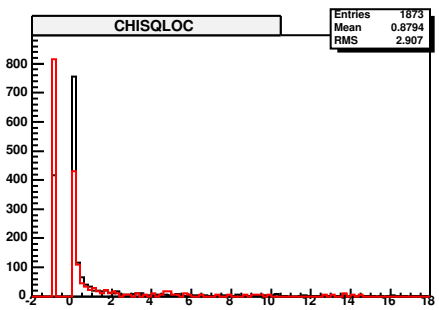


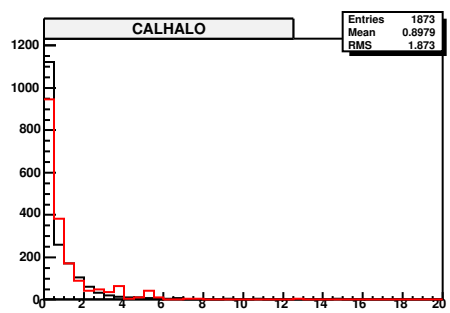


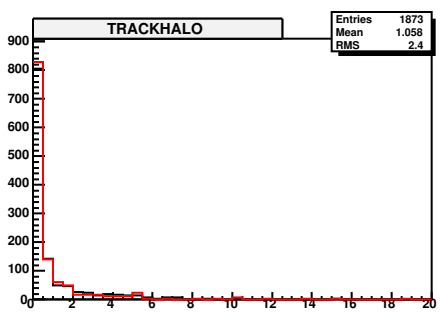


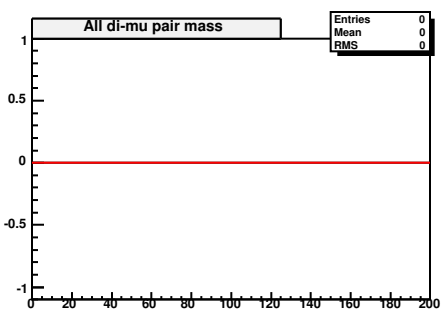


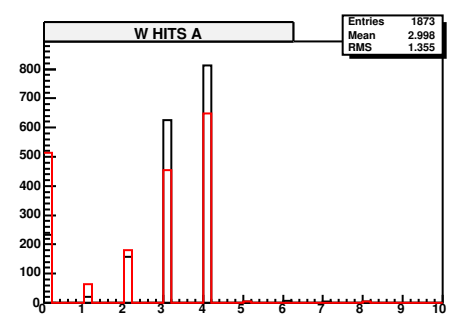


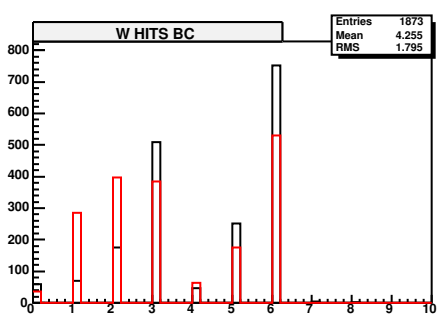


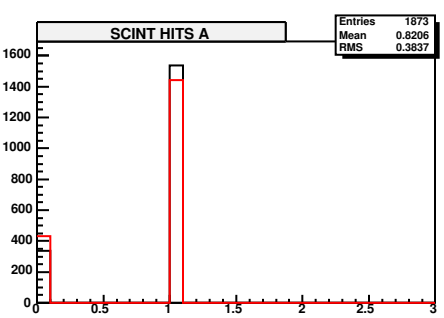


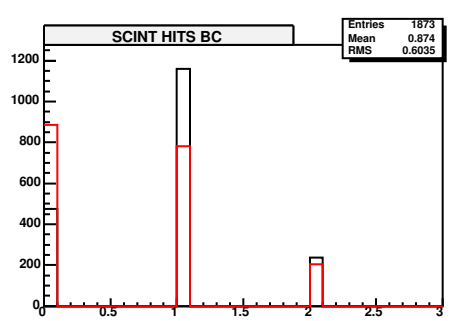




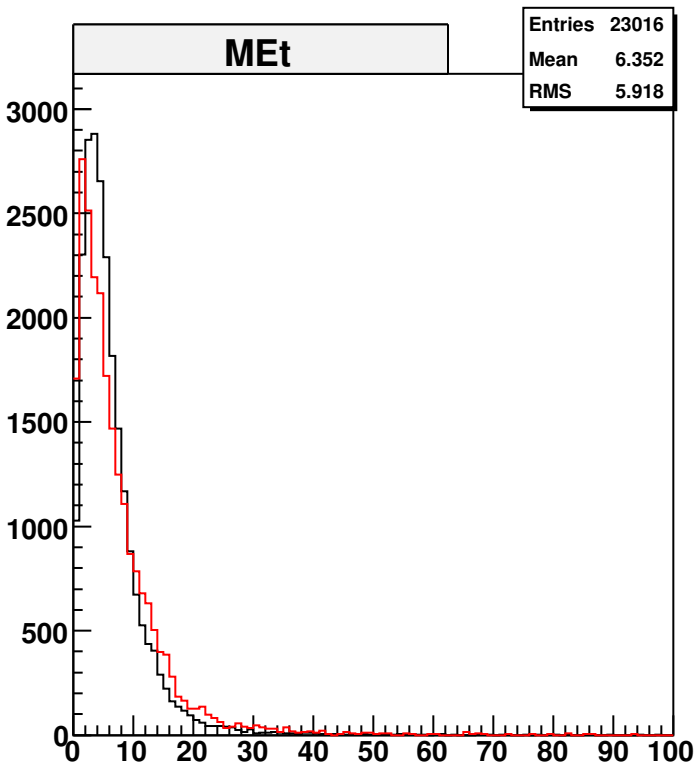








Muons (Unmatched)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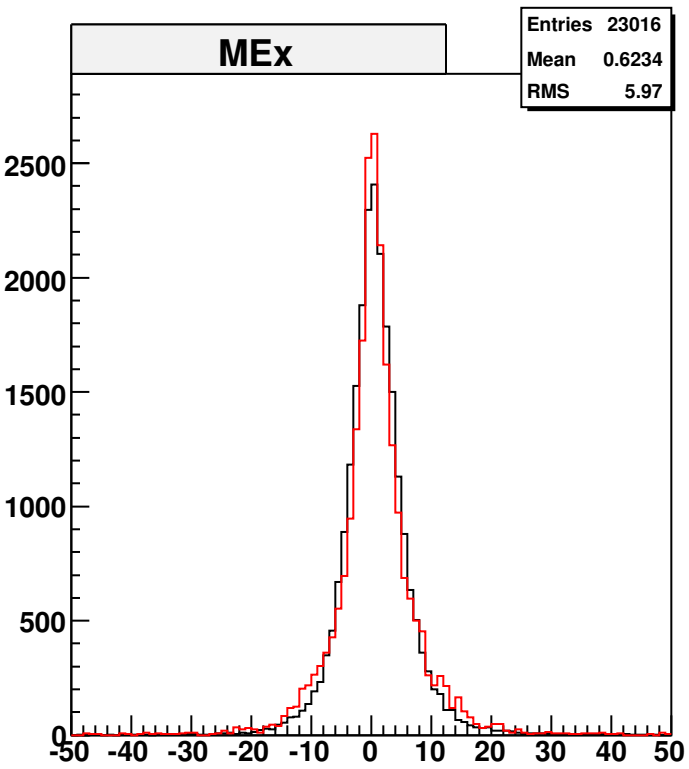
Entries 23016
Mean 6.352
RMS 5.918
3000
2500
2000
1500
1000
500
0
0 10 20 30 40 50 60 70 80 90 100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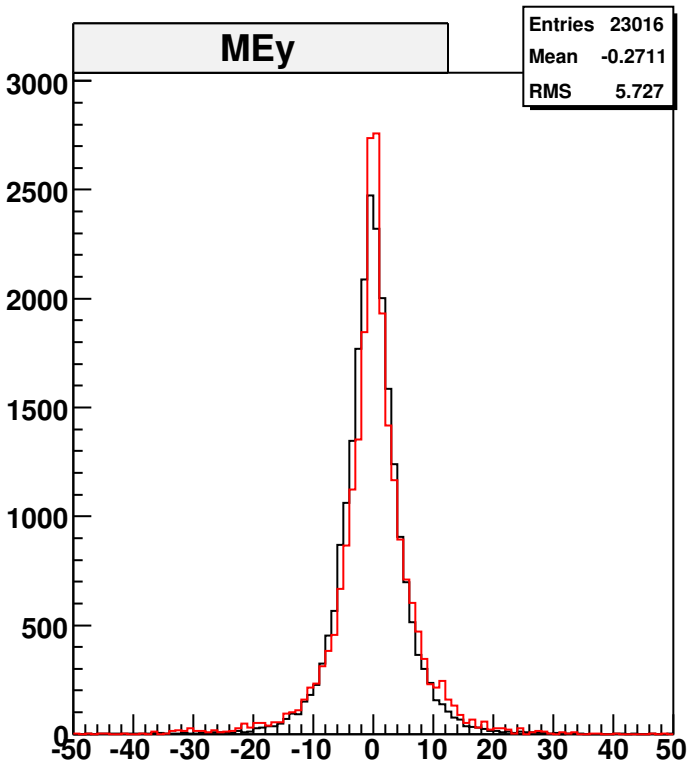
MEy
Entries 23016
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2000
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1000
500
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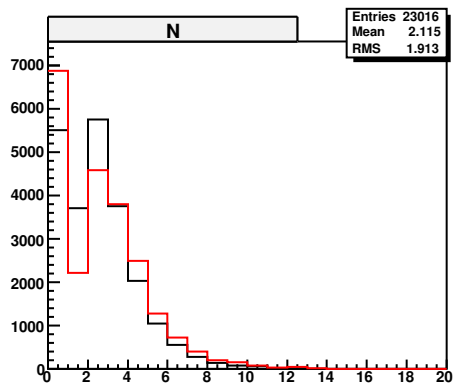
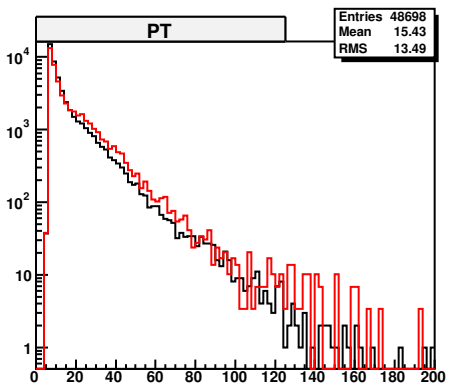
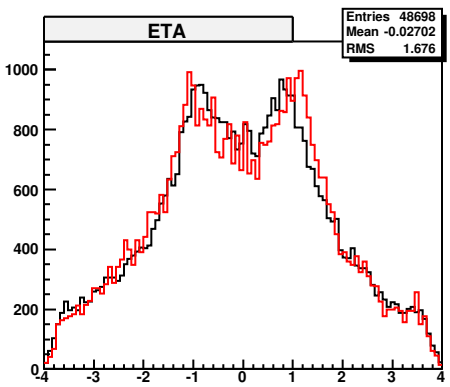
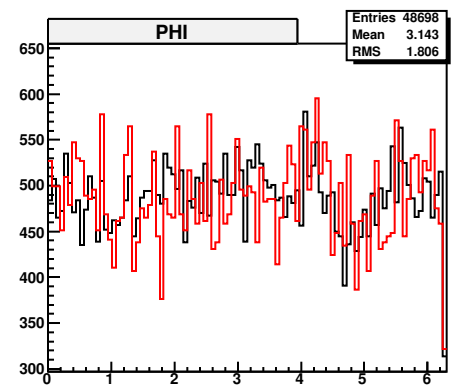
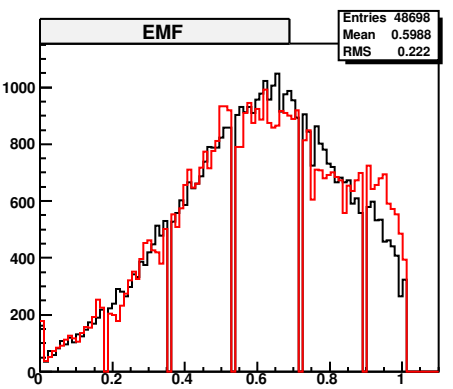
Met (No cuts)

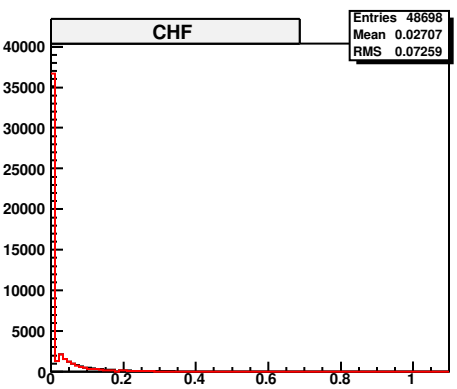


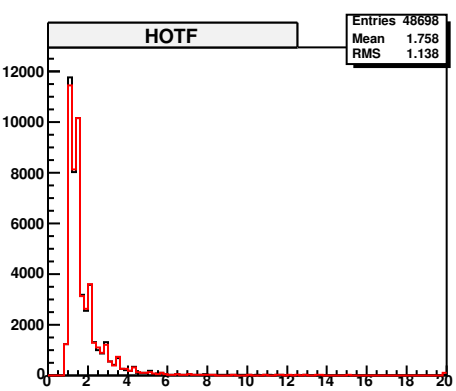


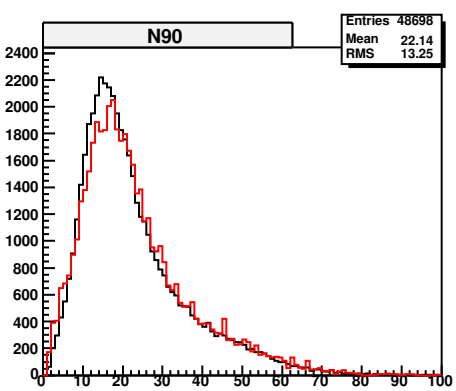


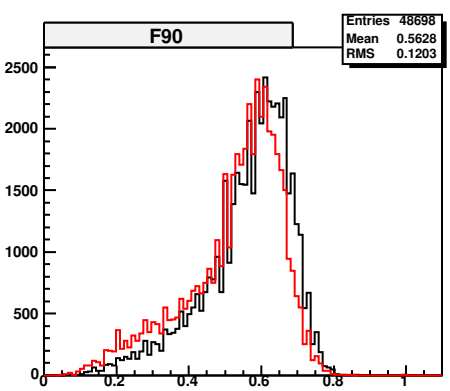


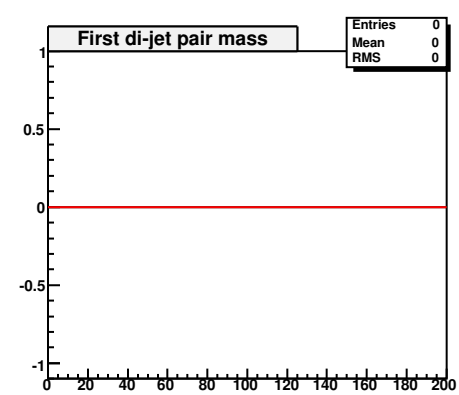


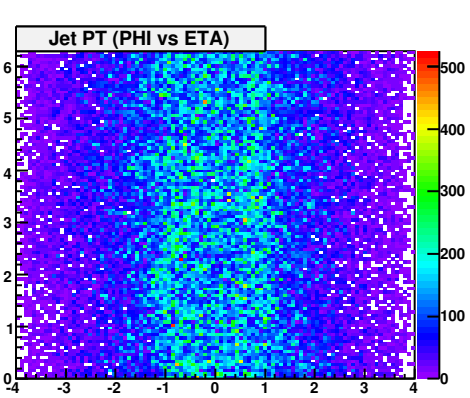




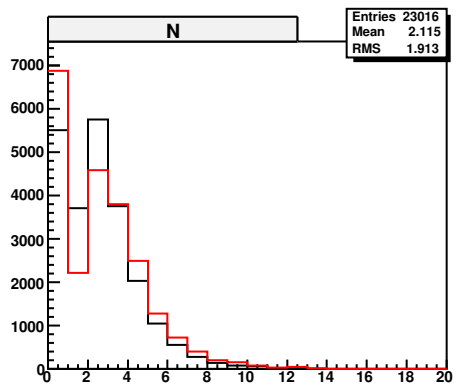


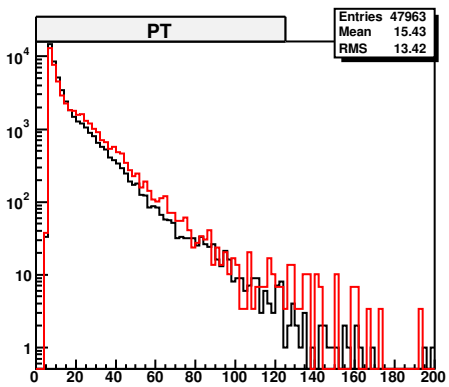


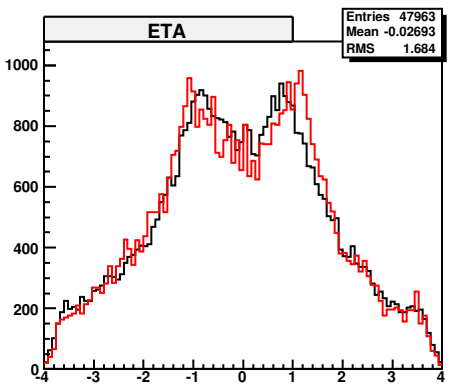


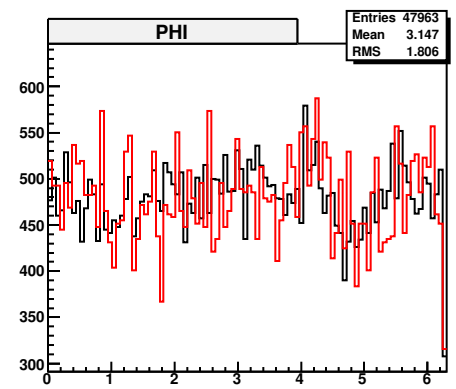


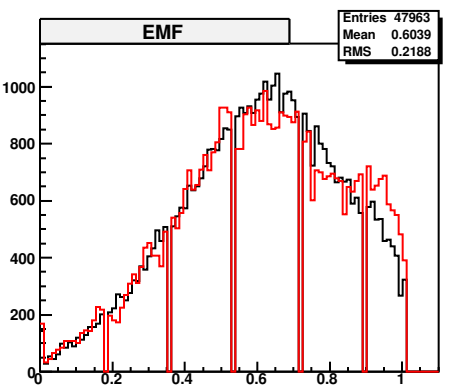
Jets (Cone R 0.7 (no cuts))

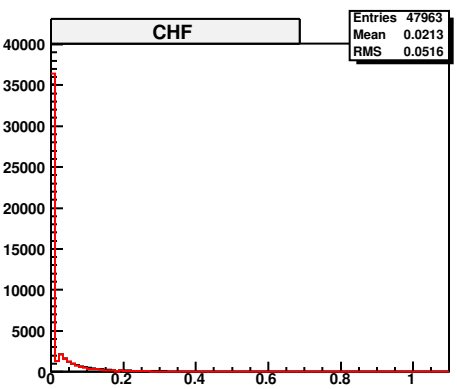


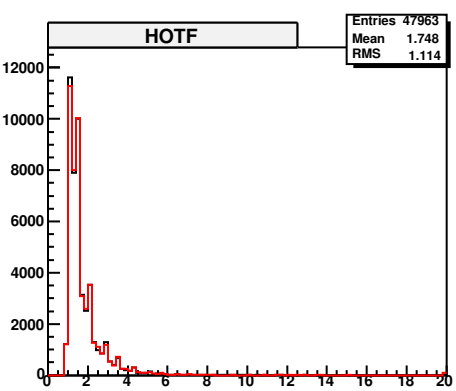


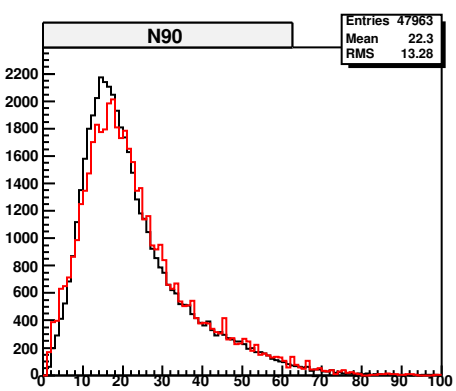


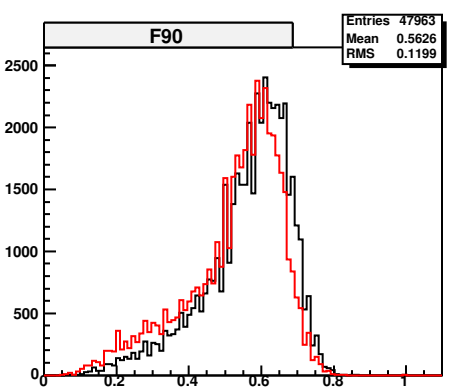


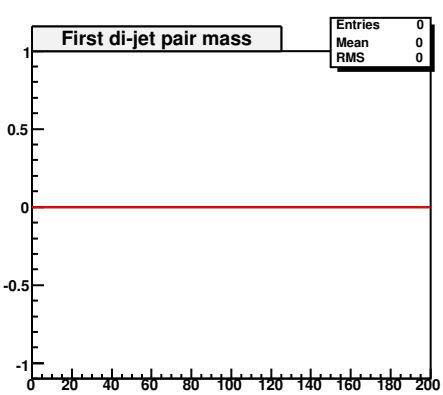


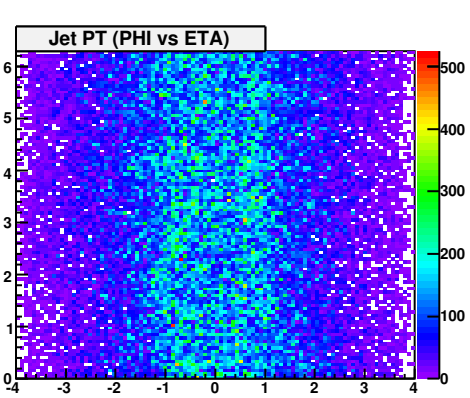




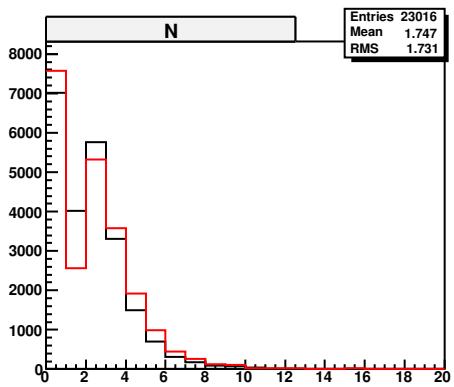


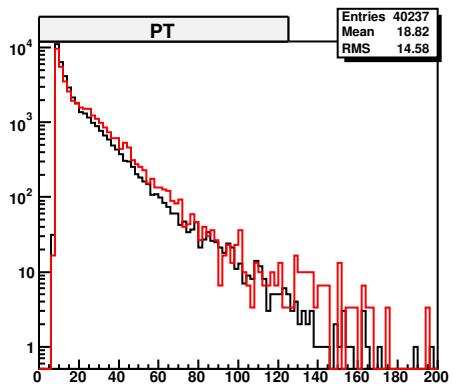


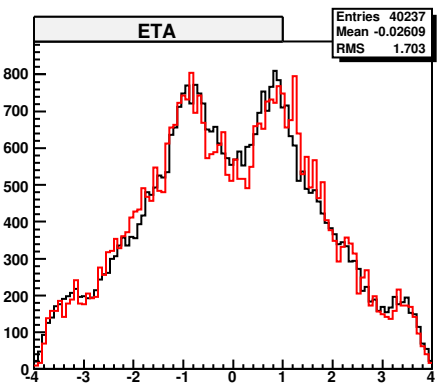


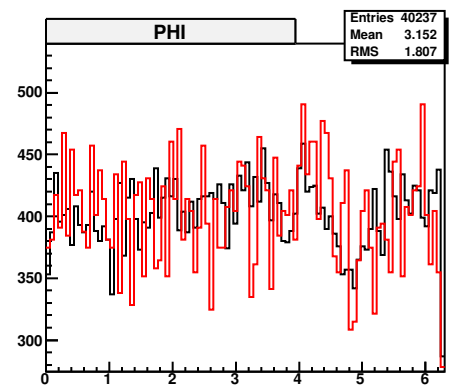


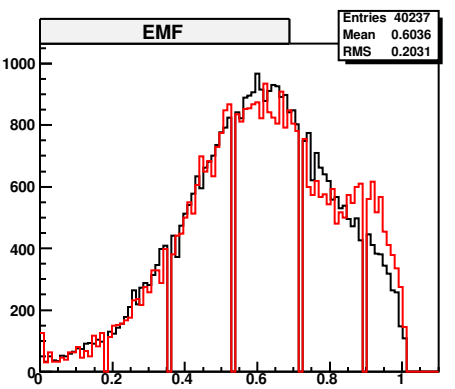
Jets (Cone R 0.7 (standard cuts))

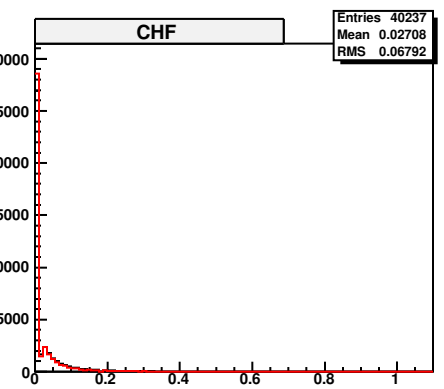


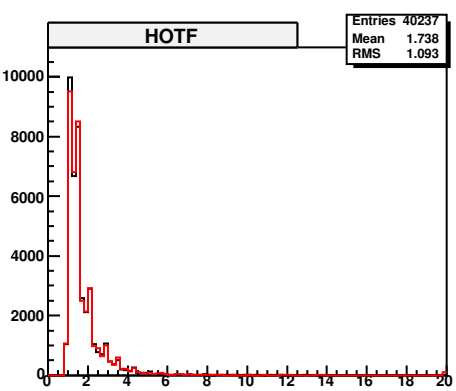


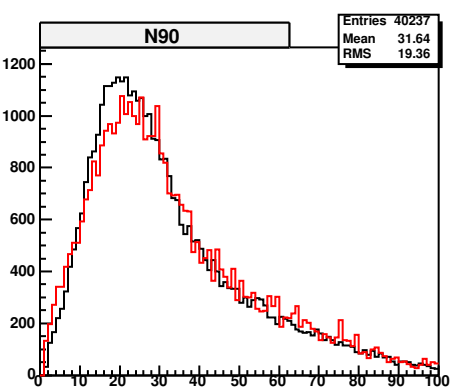


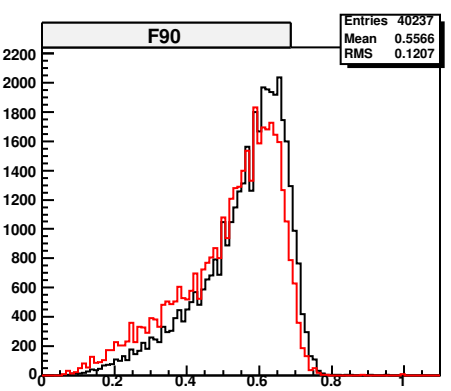


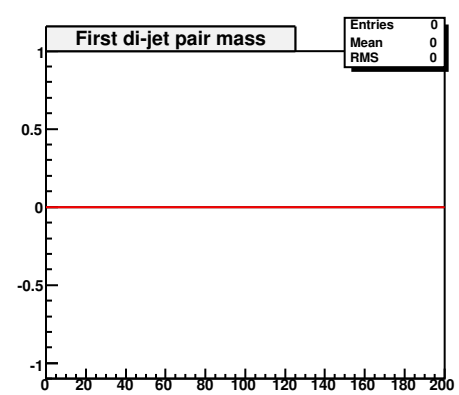


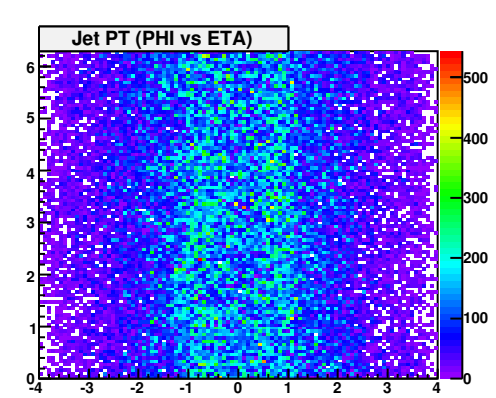




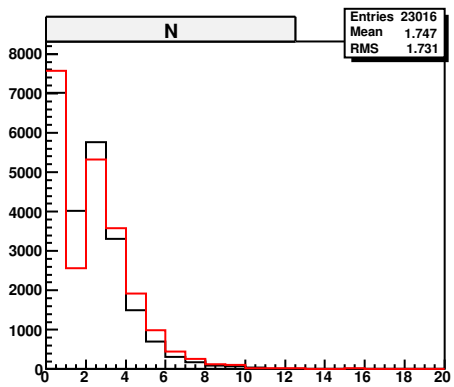


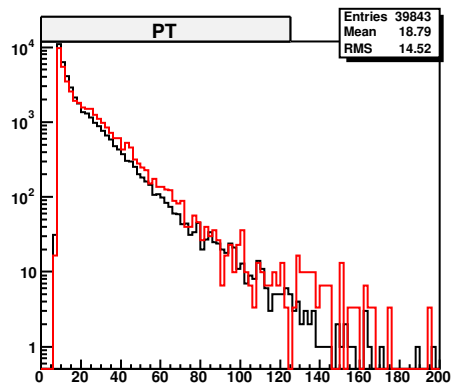


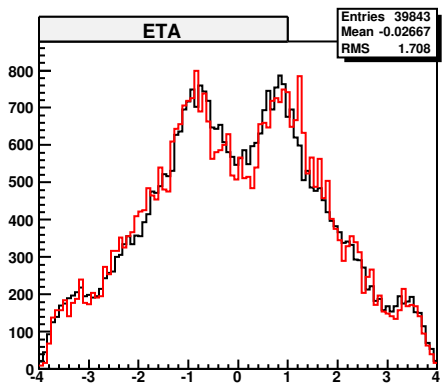


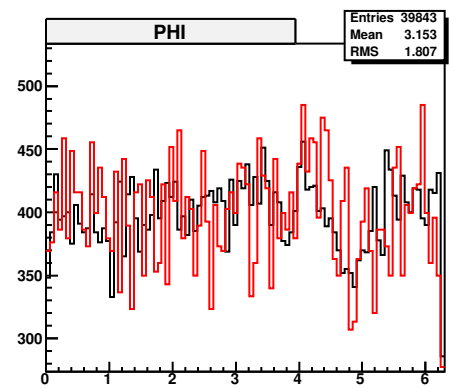


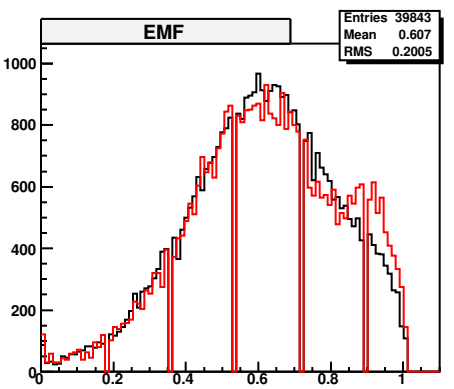
Jets (KT D 1 (no cuts))

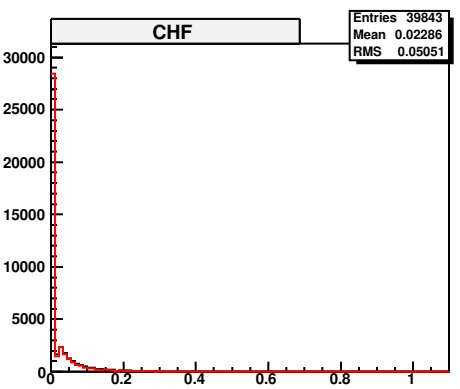


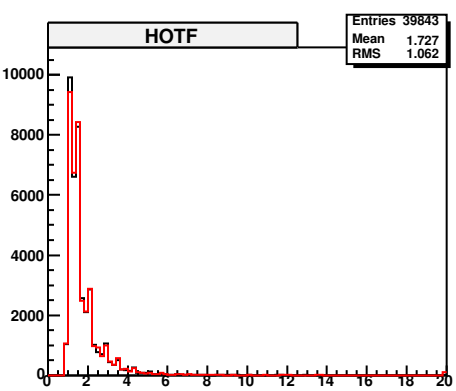


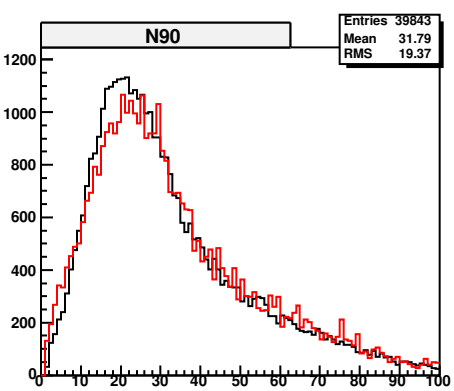


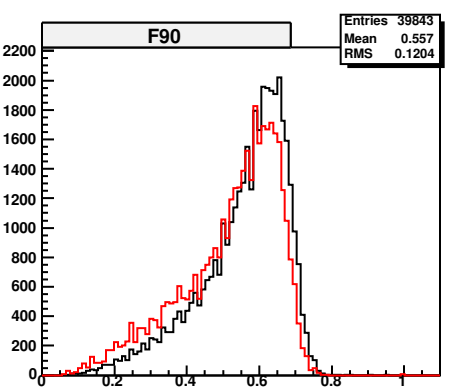


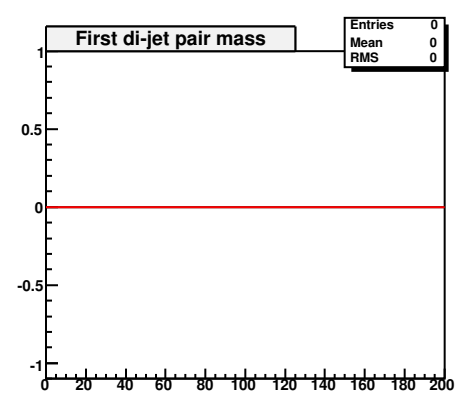


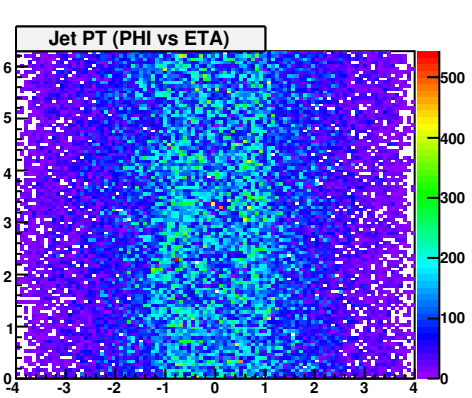




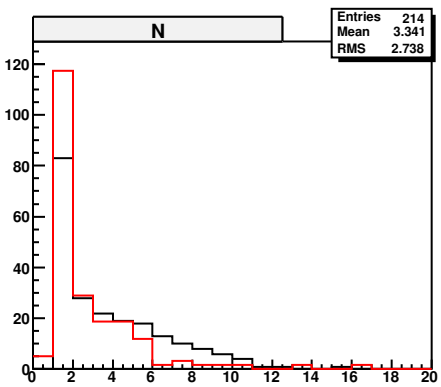


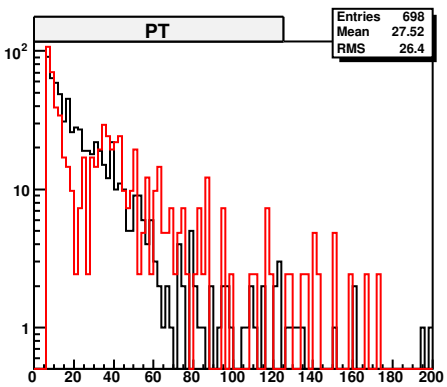


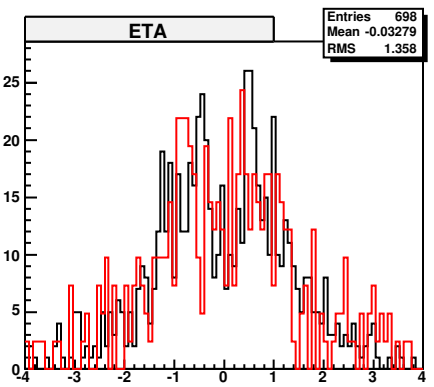


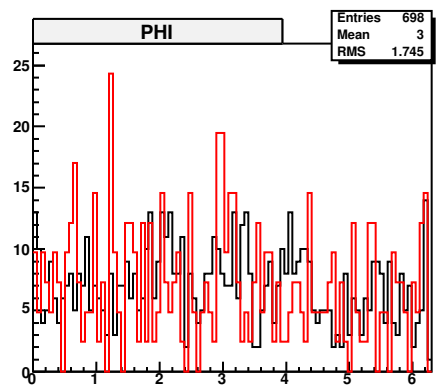


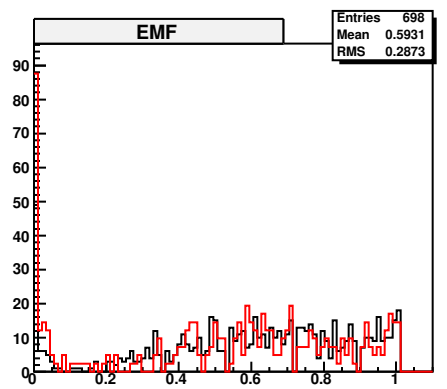
Jets (KT D 1 (standard cuts))

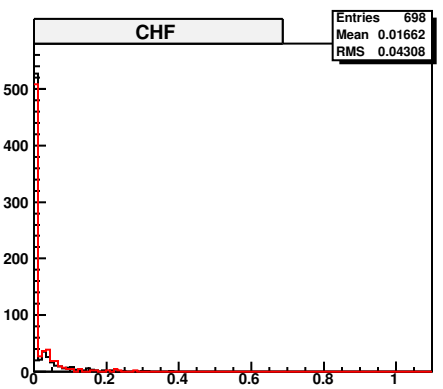


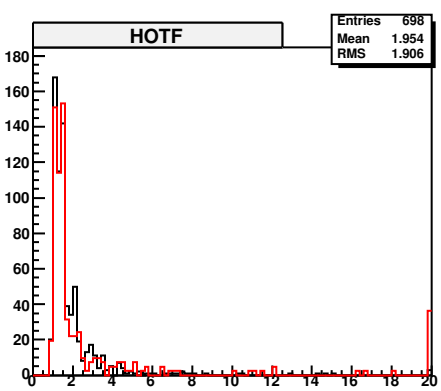


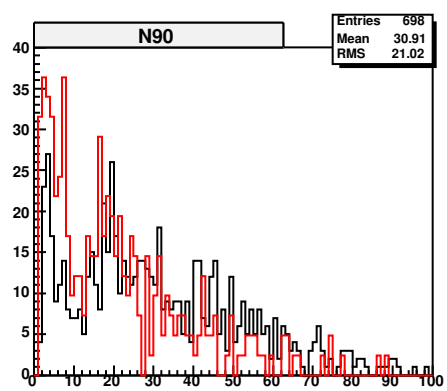


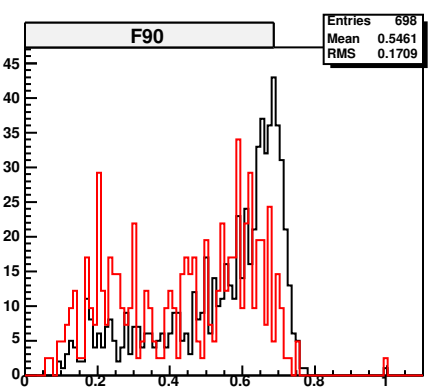


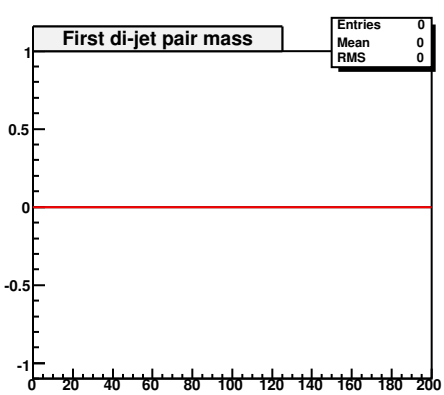


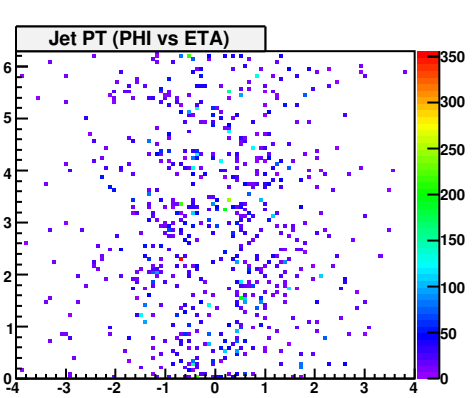




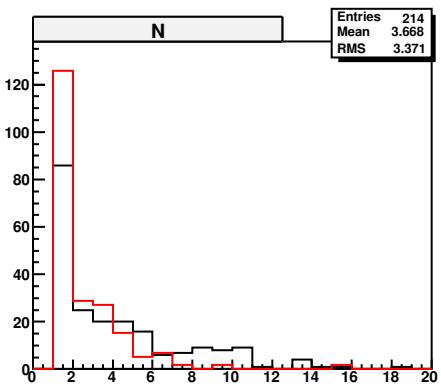


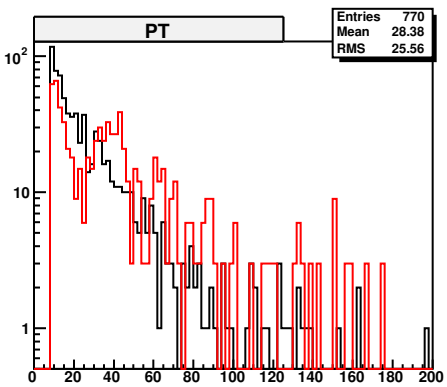


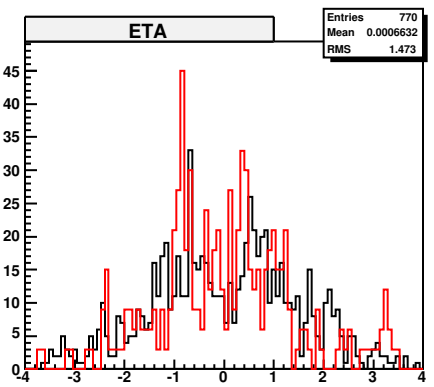


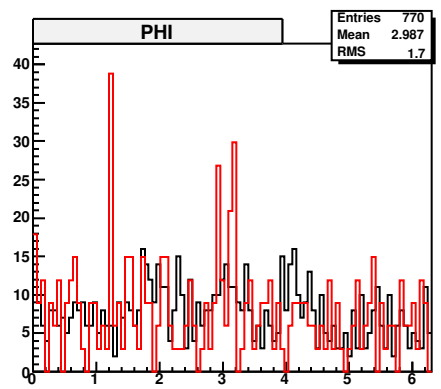


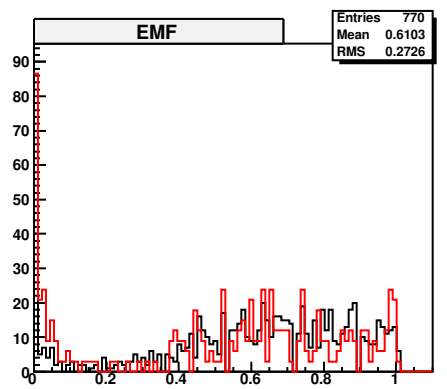
Jets (Cone R 0.7 (standard cuts, MET>30))

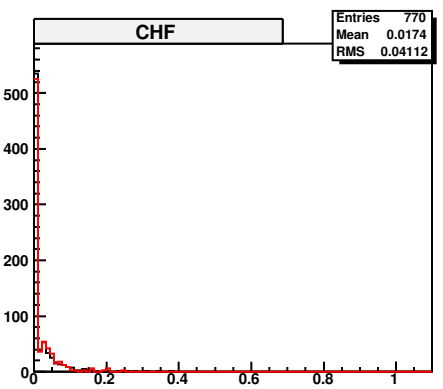


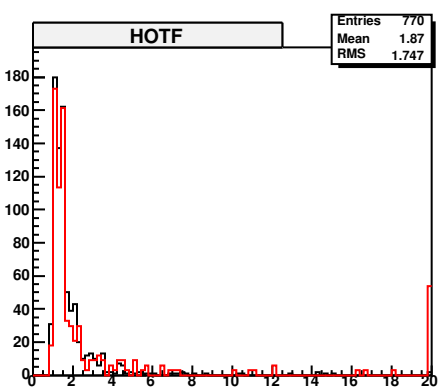


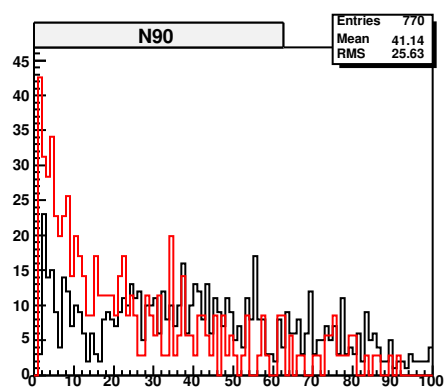


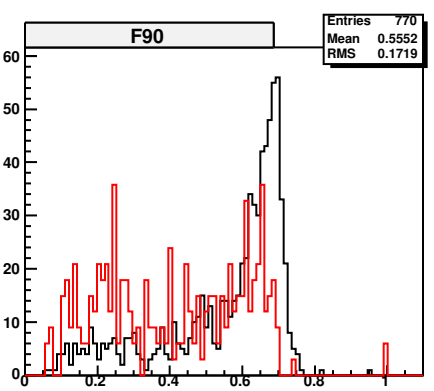


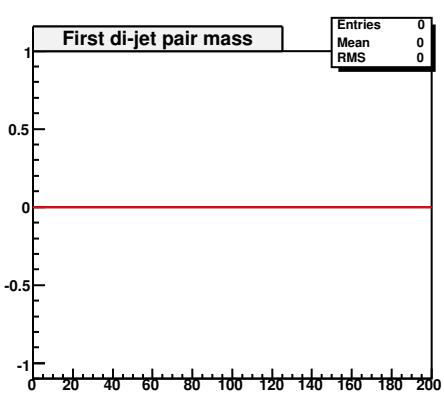


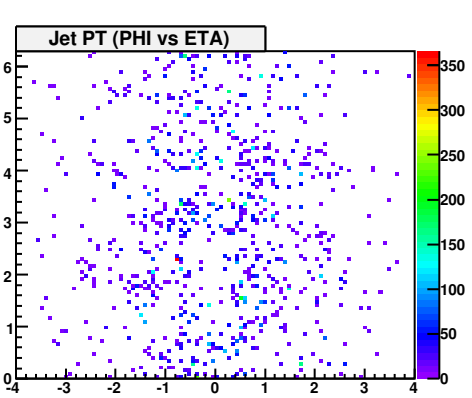




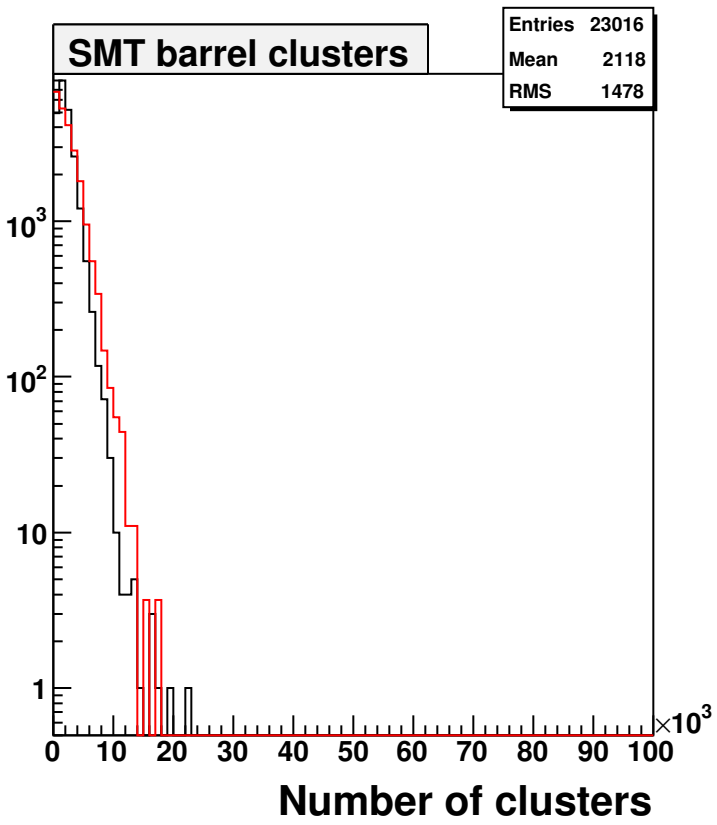


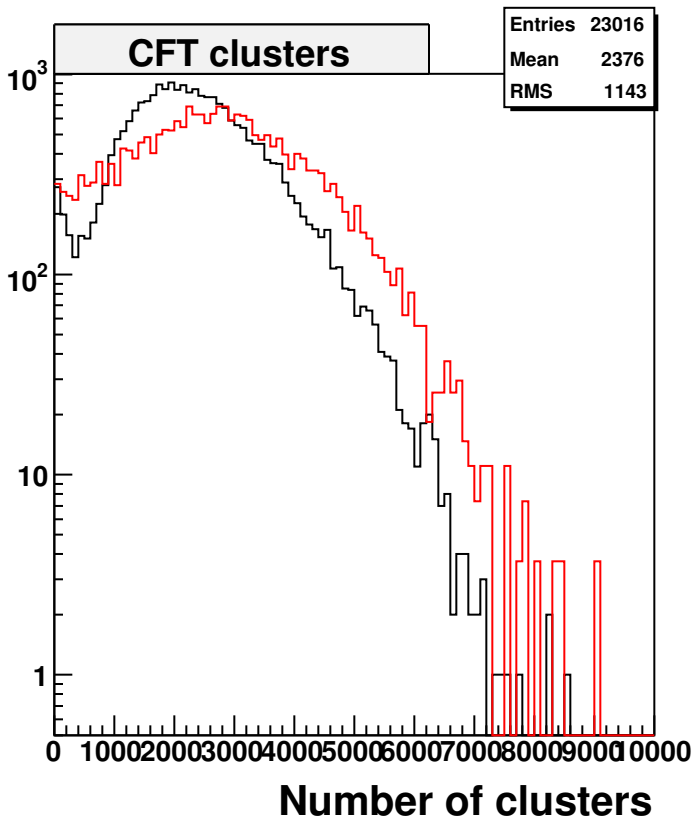


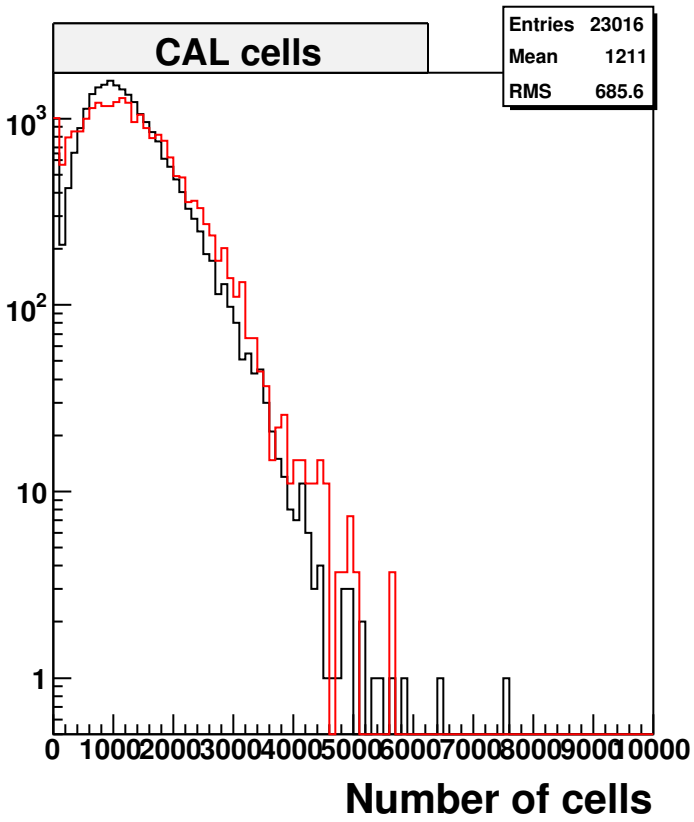


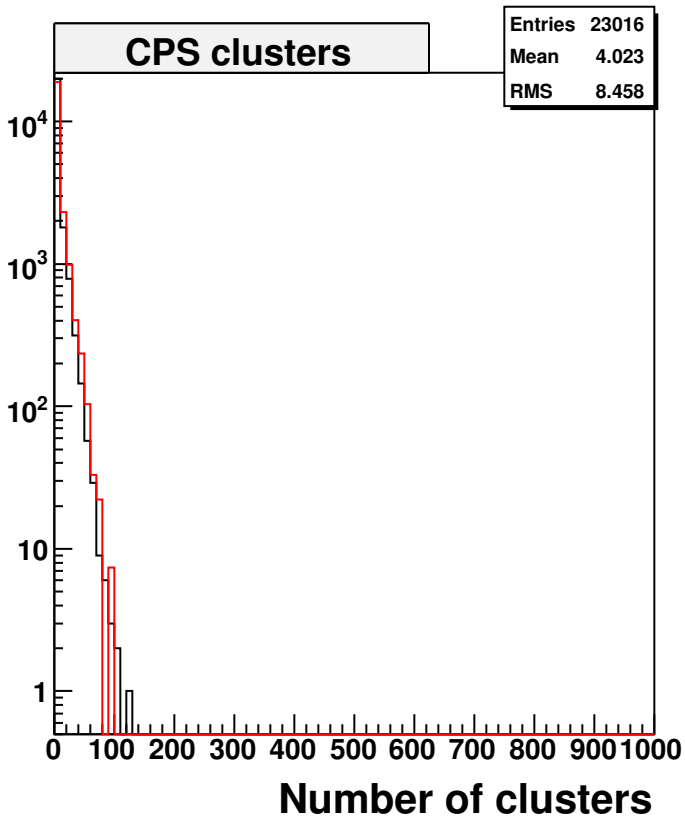


Jets (KT D 1 (standard cuts, MET>30))

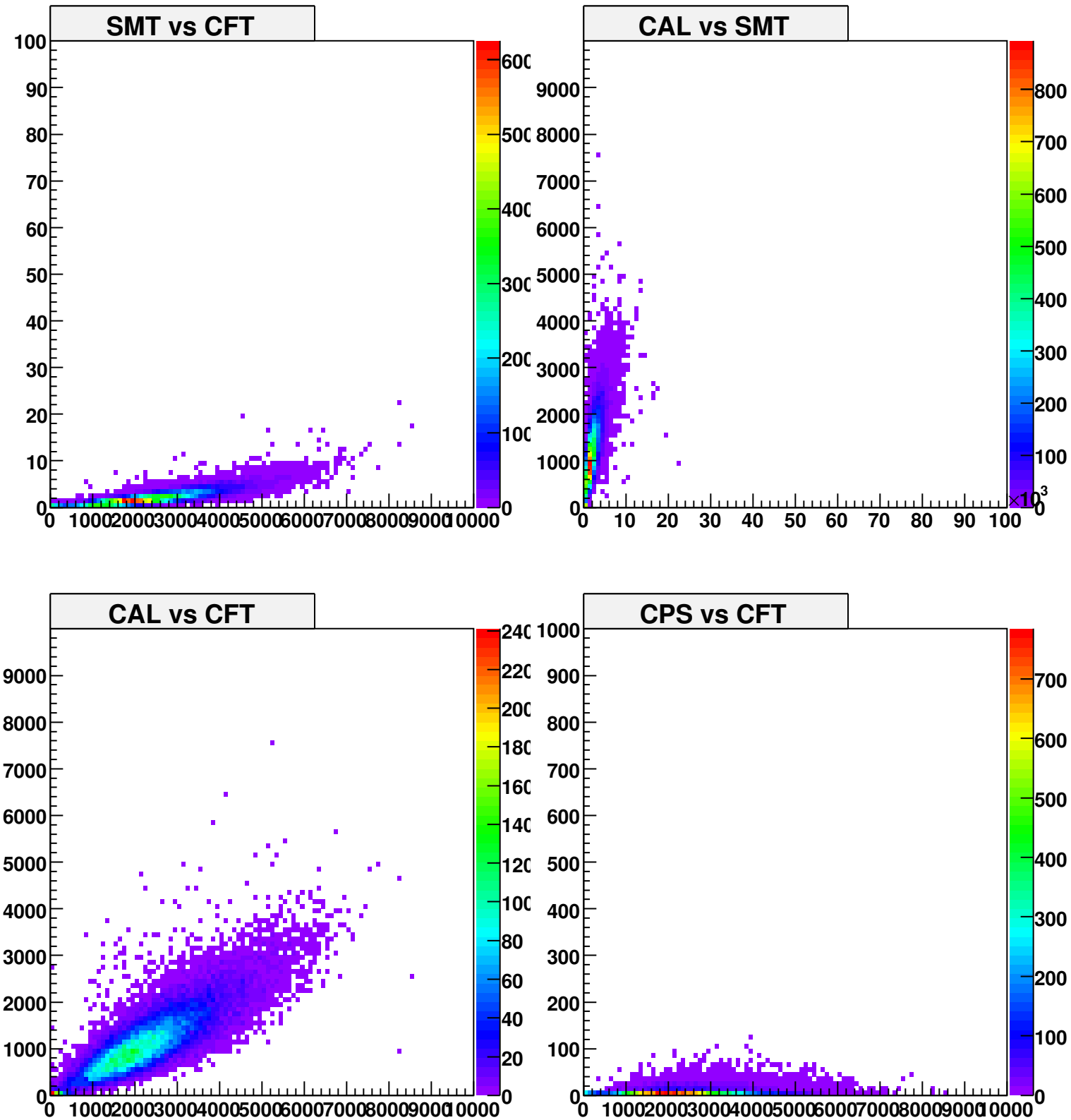


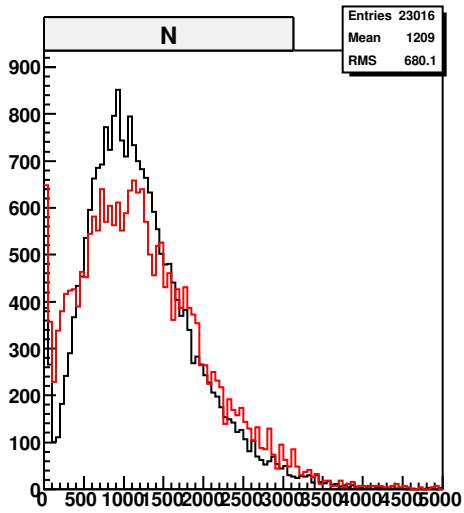


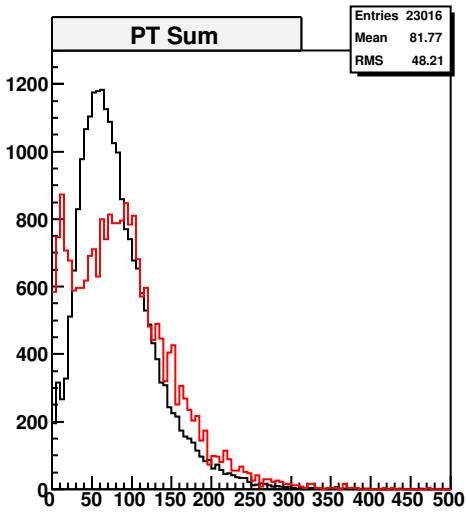


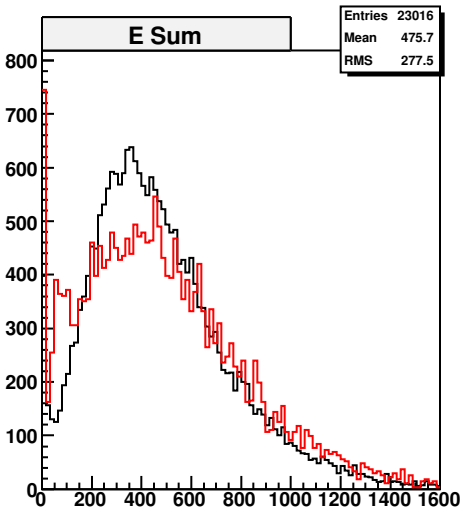


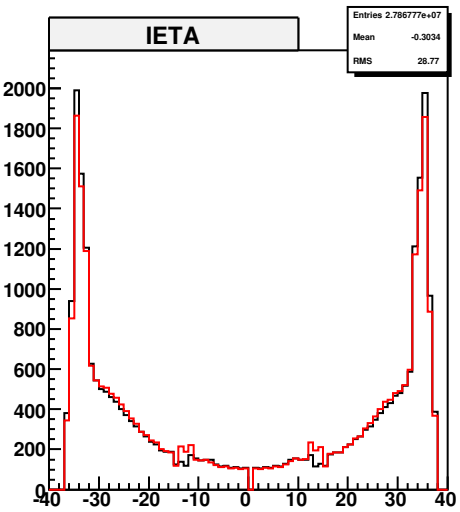
Detector Occupancy (Detector)

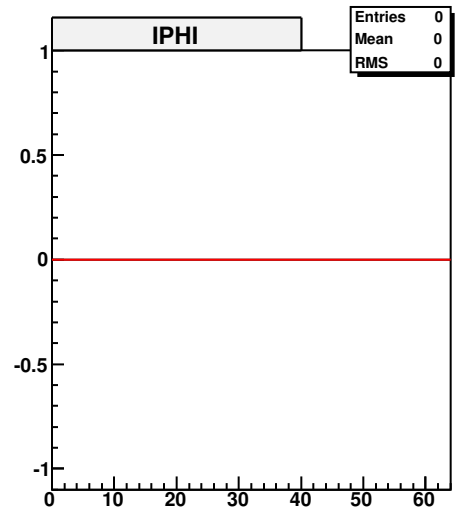

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

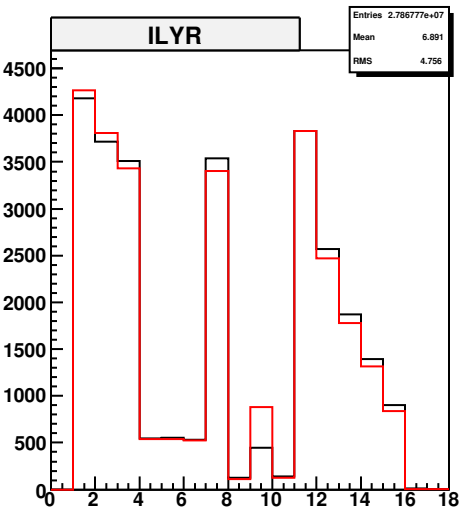


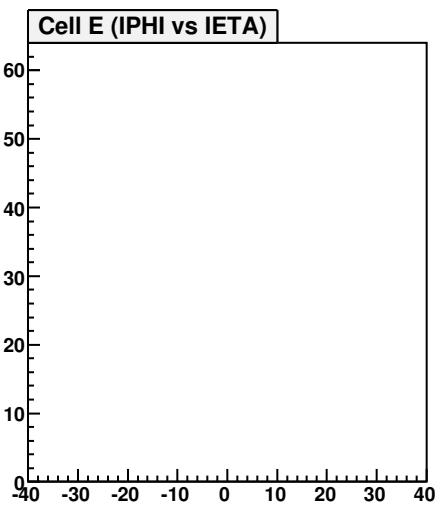


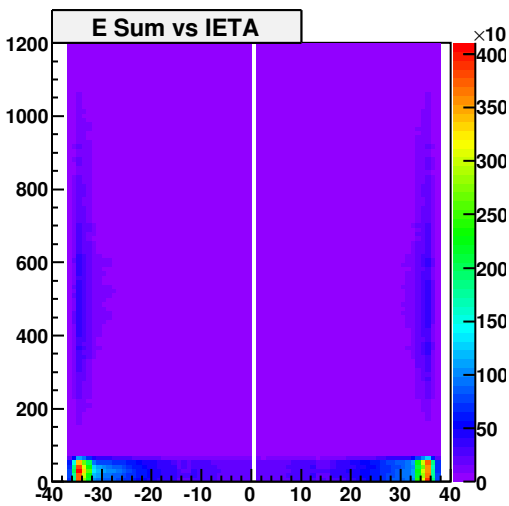


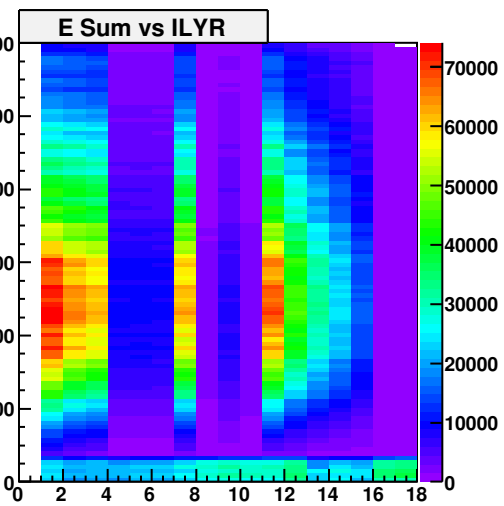




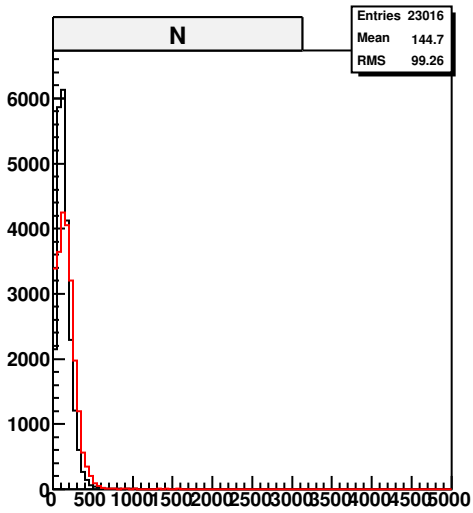


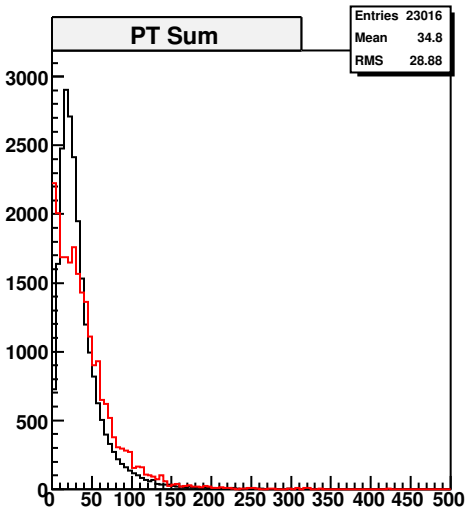


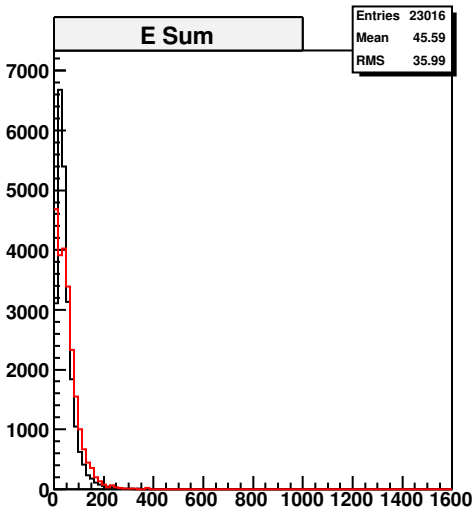


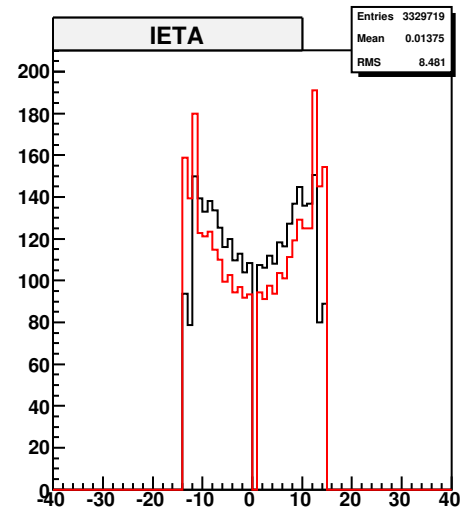


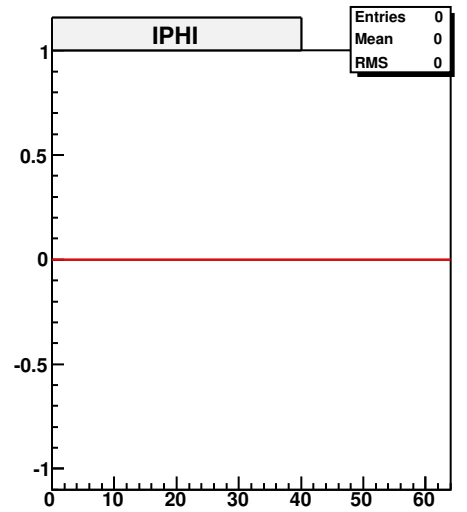
Calorimeter (All cells)

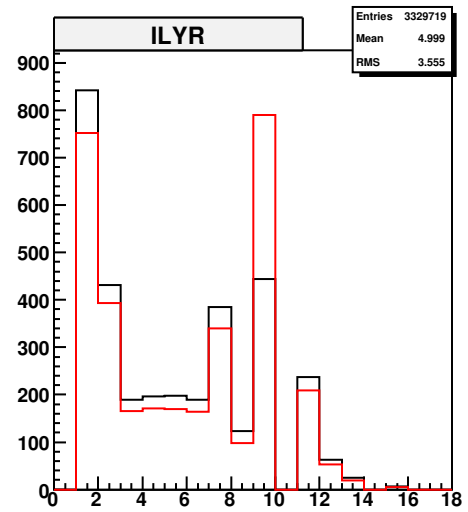


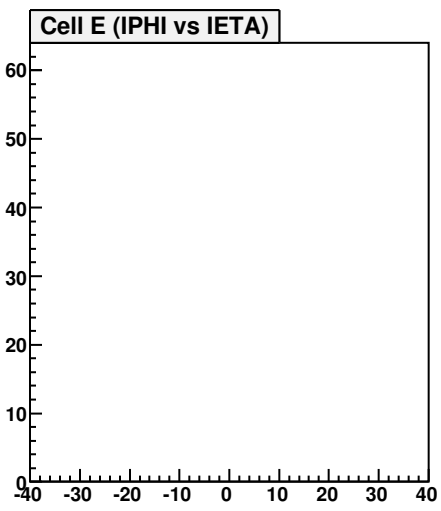


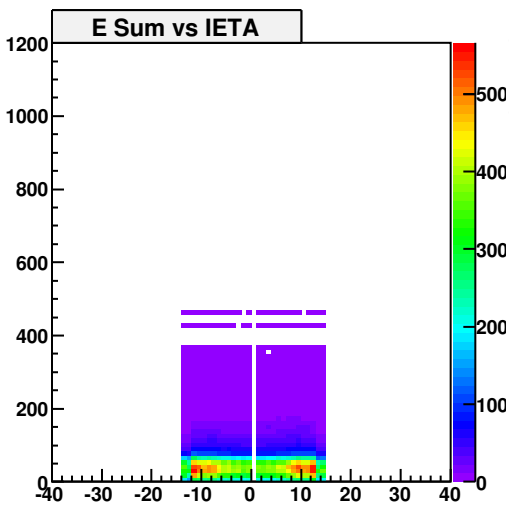


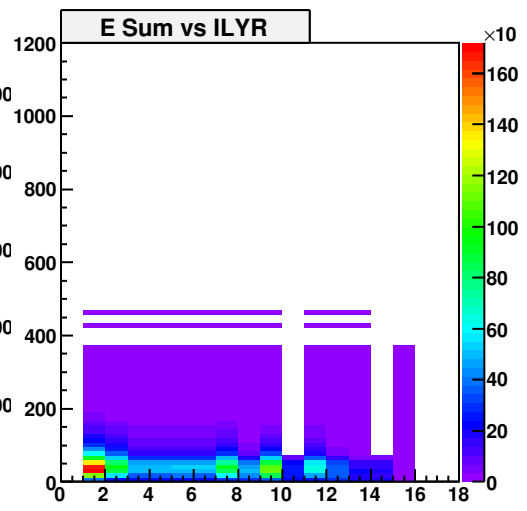




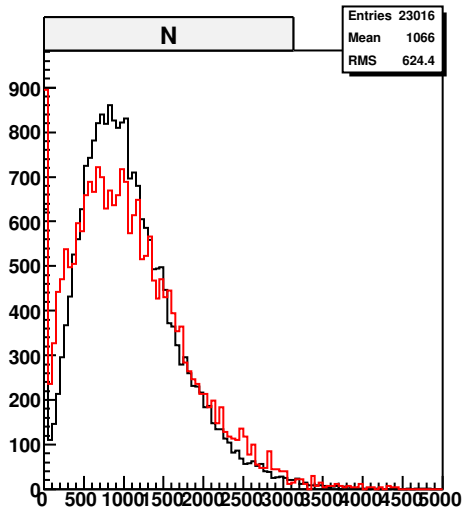


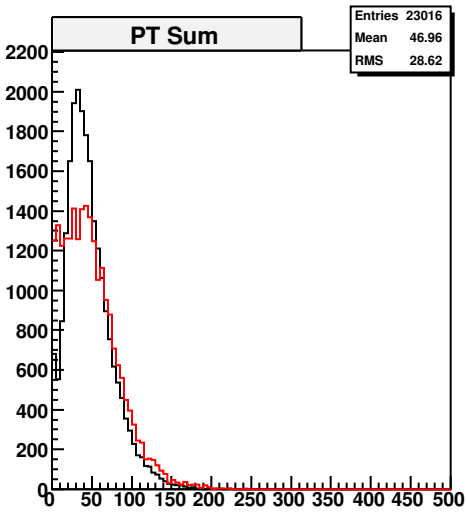


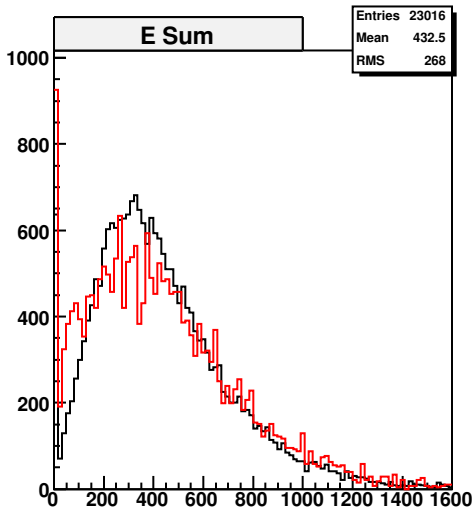


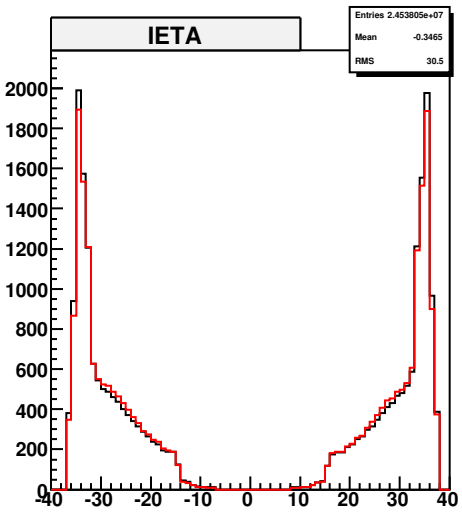


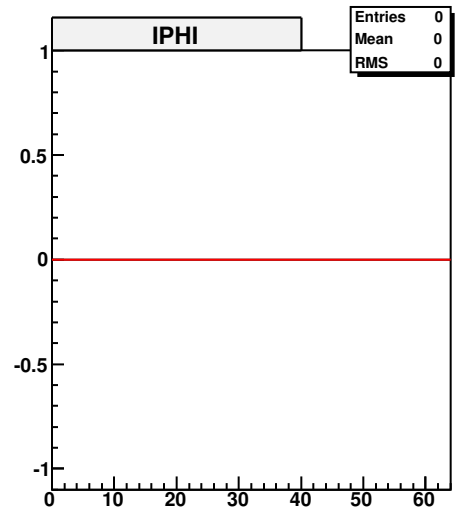
Calorimeter (All CC cells)

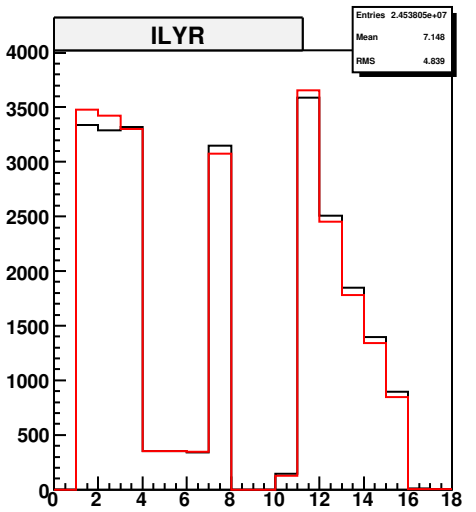


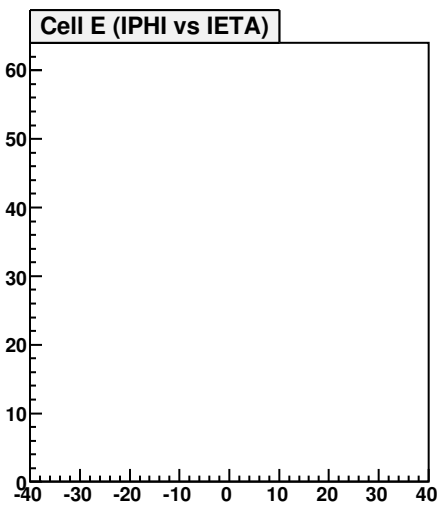


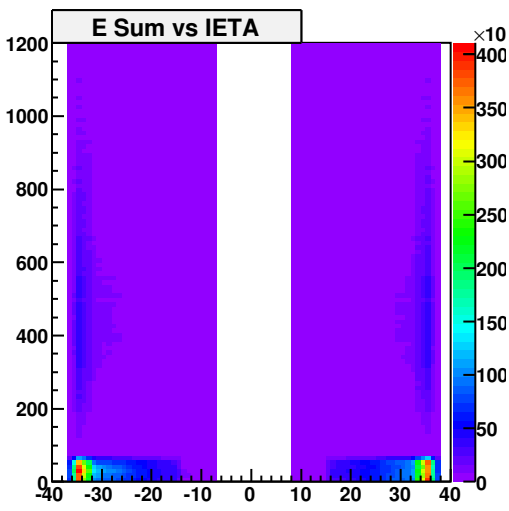


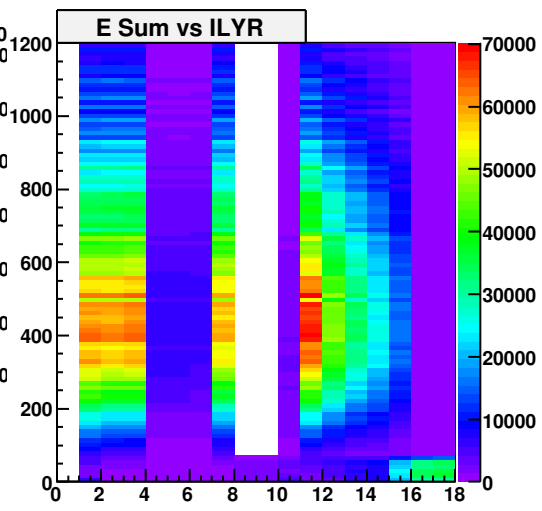




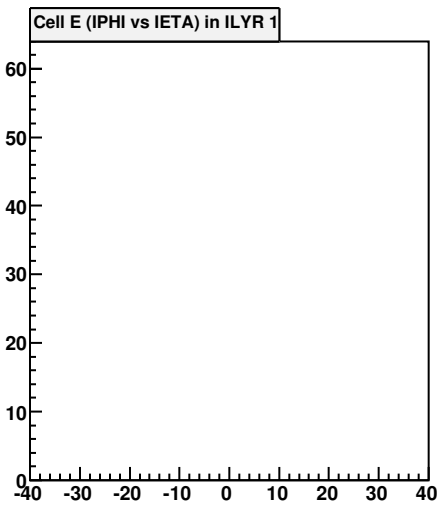


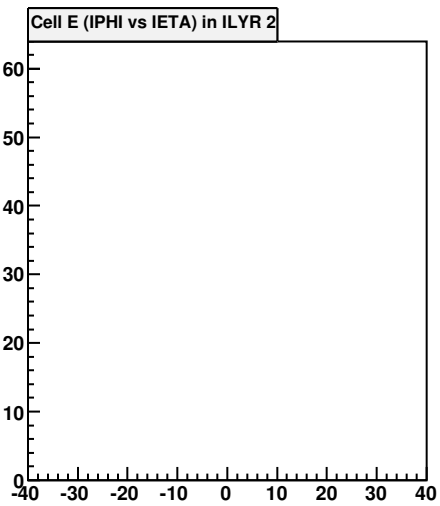


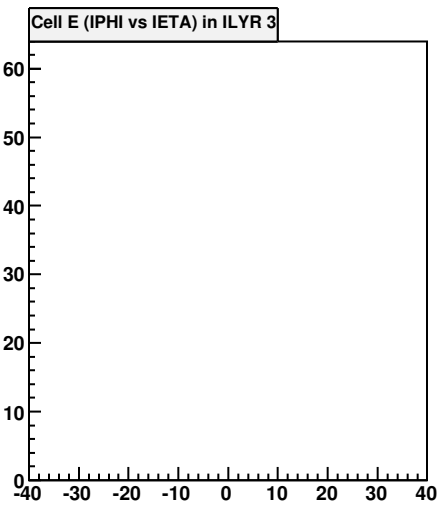


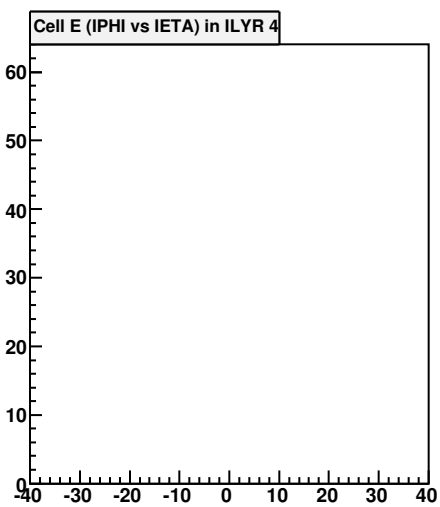


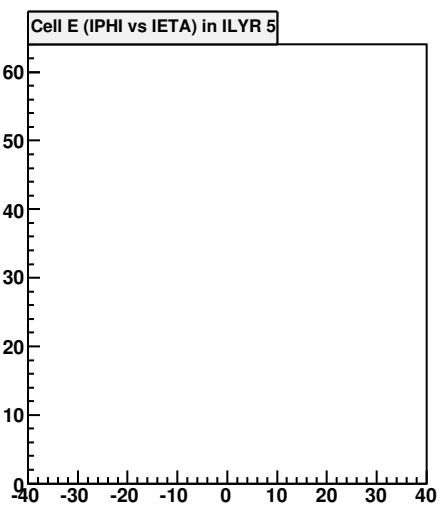
Calorimeter (All EC cells)

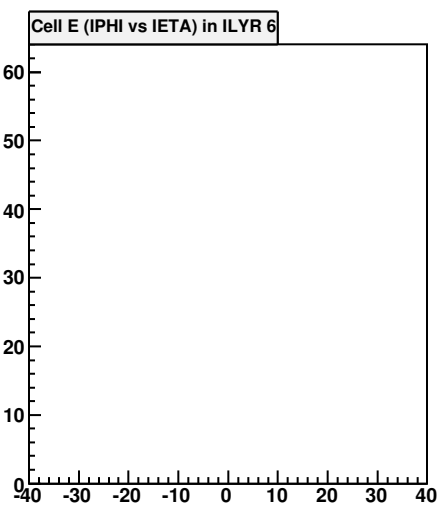


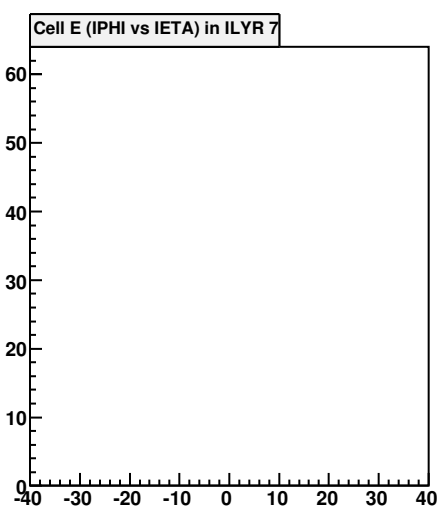


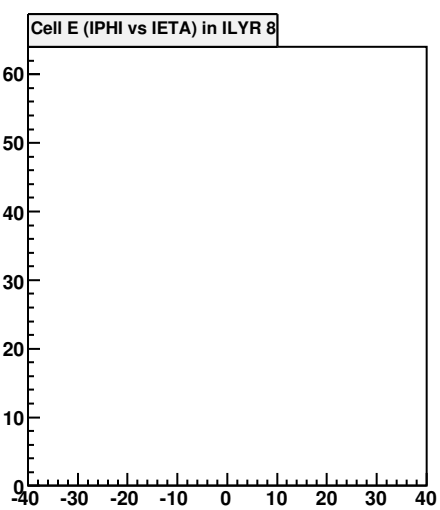


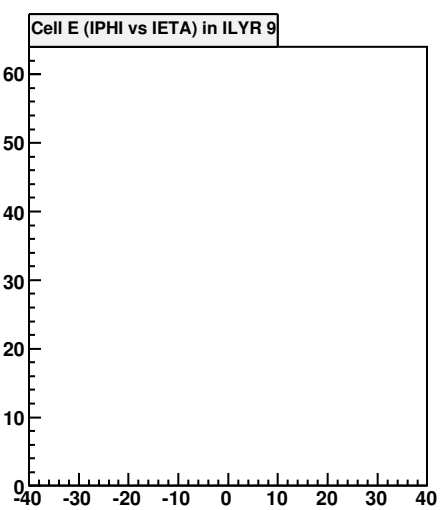




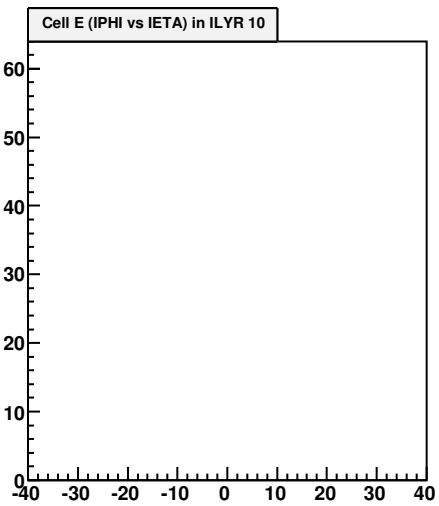


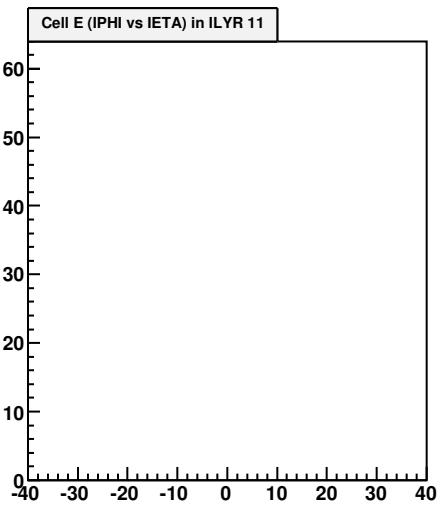


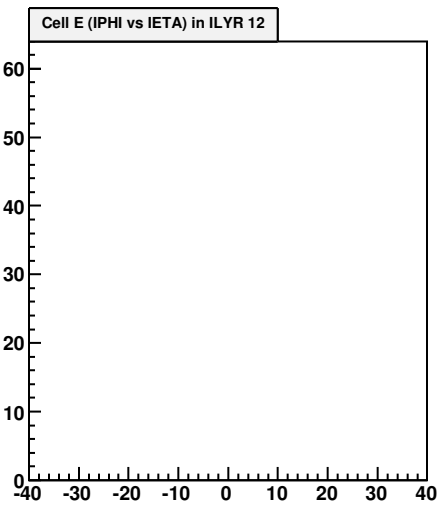


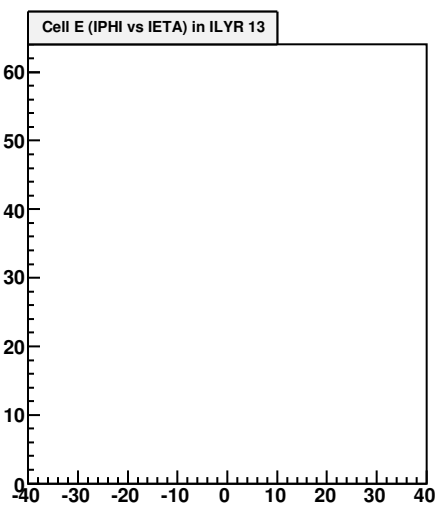


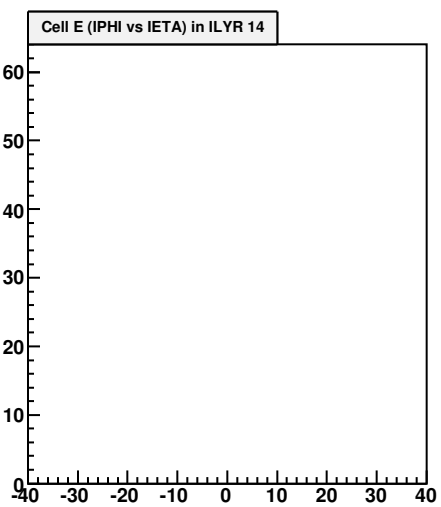
Calorimeter Cell Energy ILYR 1-9 (All cells)

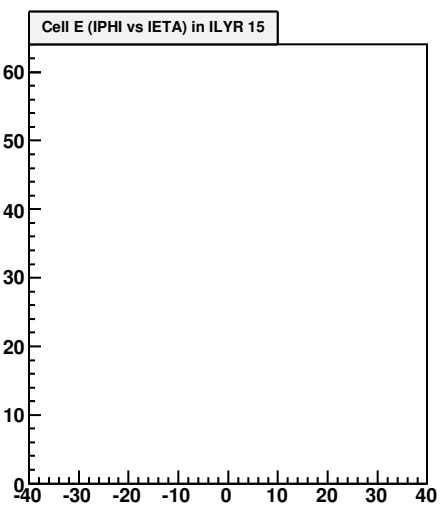


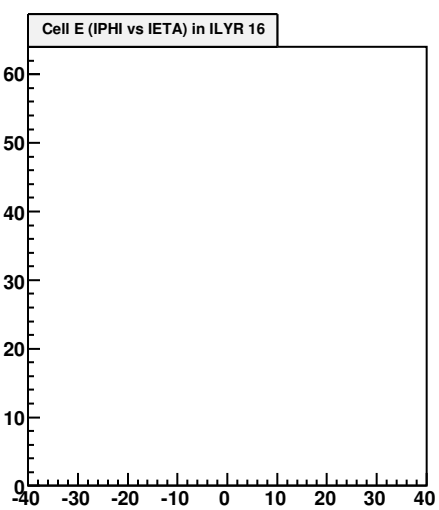


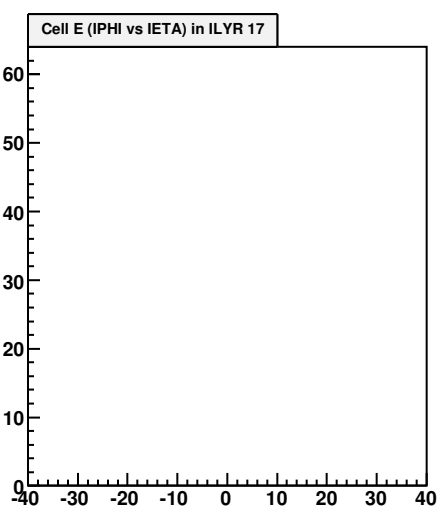




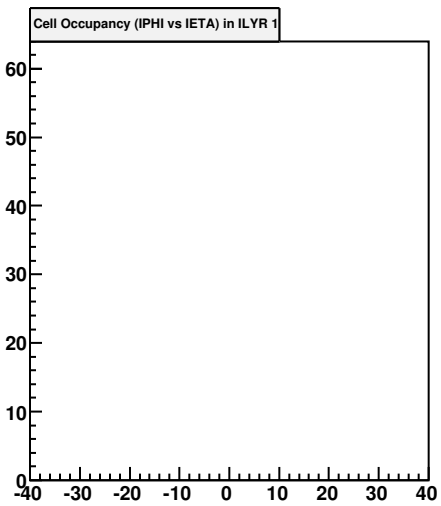


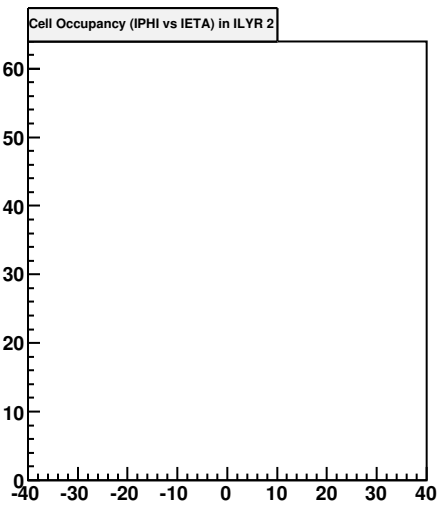


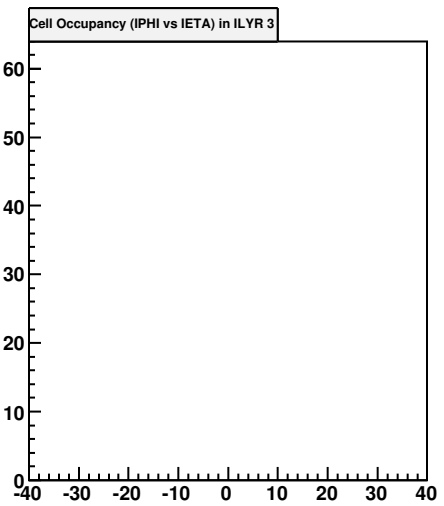


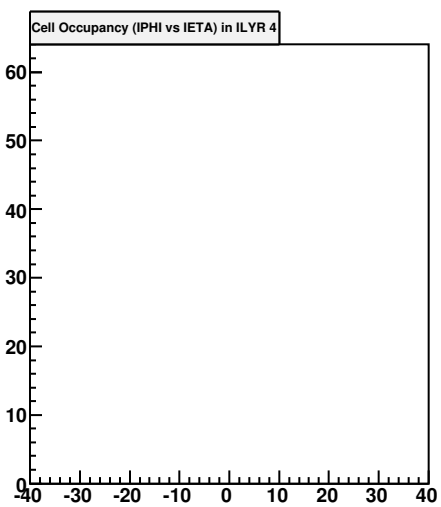


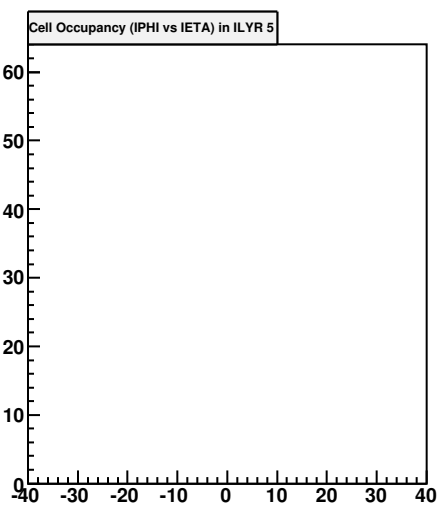
Calorimeter Cell Energy ILYR 10-17 (All cells)

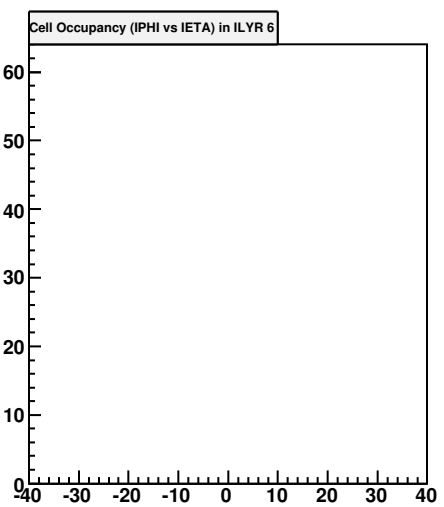


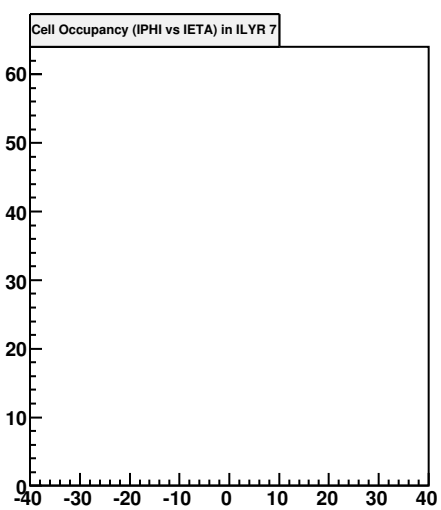


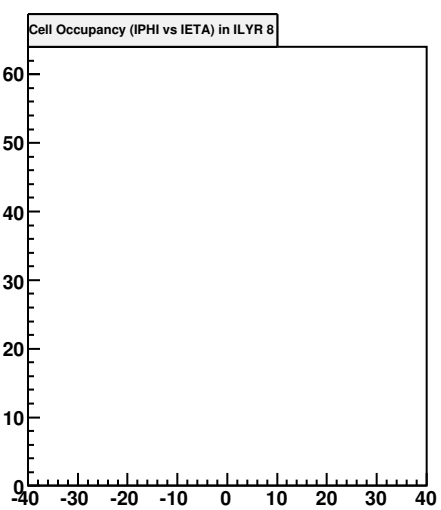


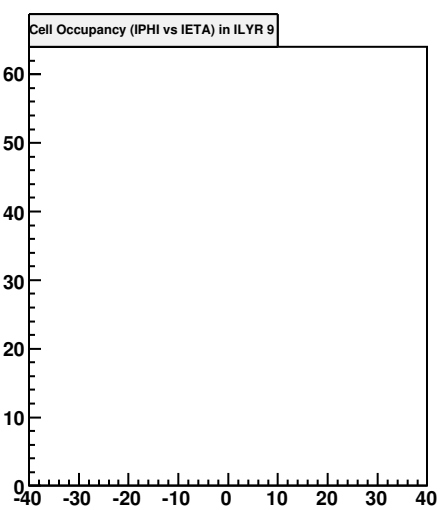




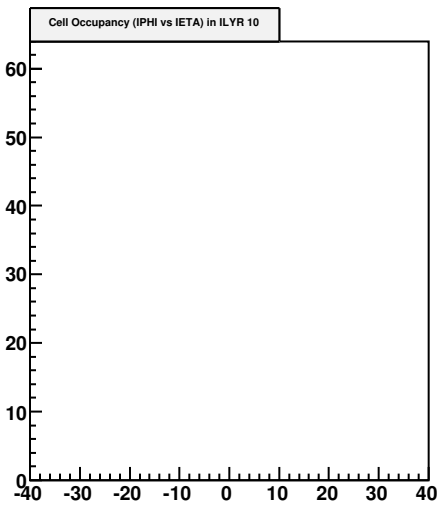


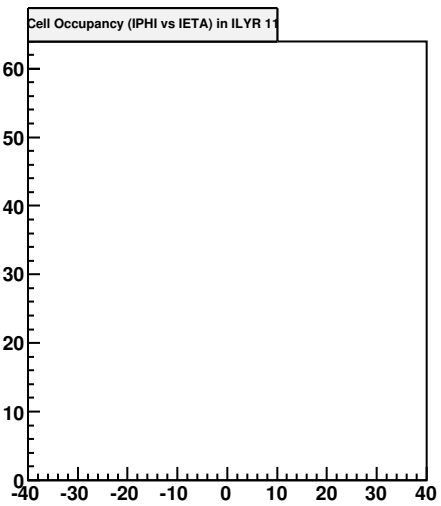


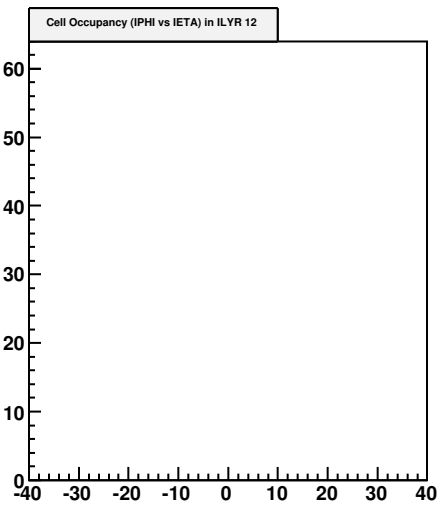


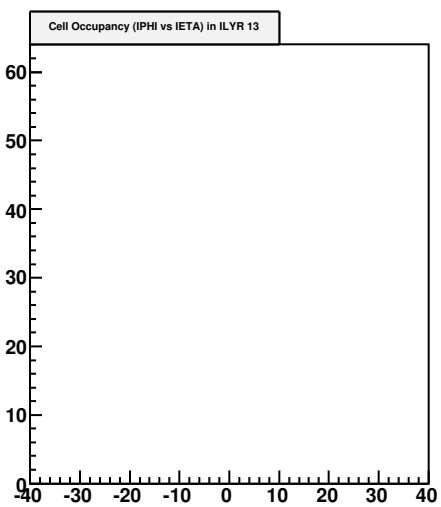


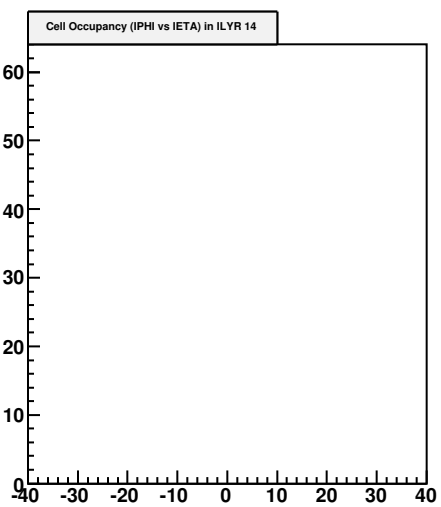
Calorimeter Occupancy ILYR 1-9 (All cells)

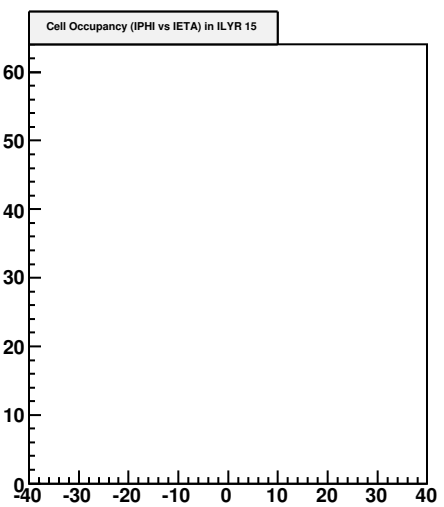


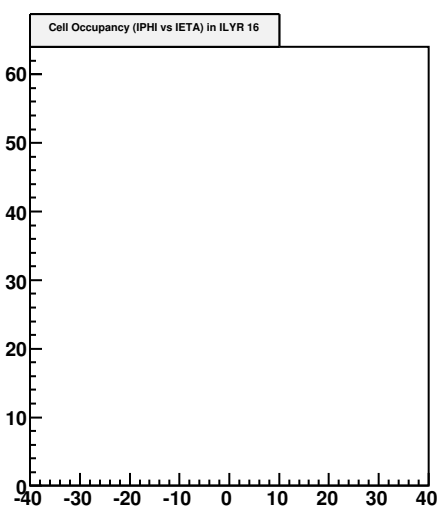


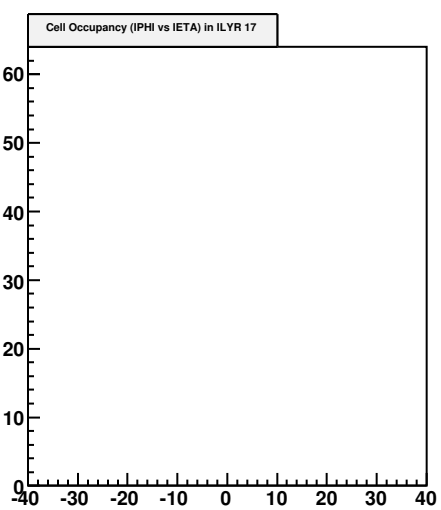




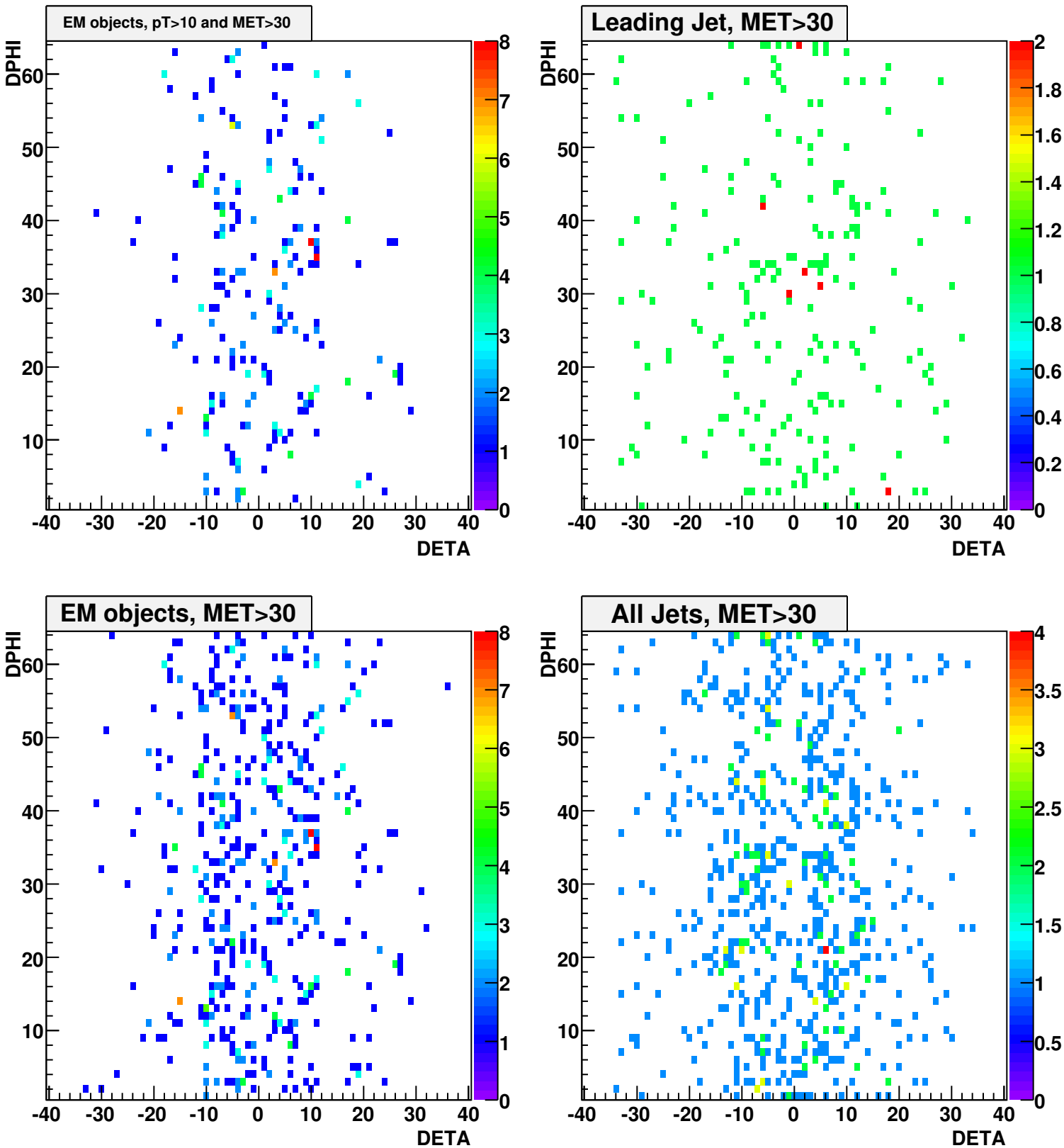




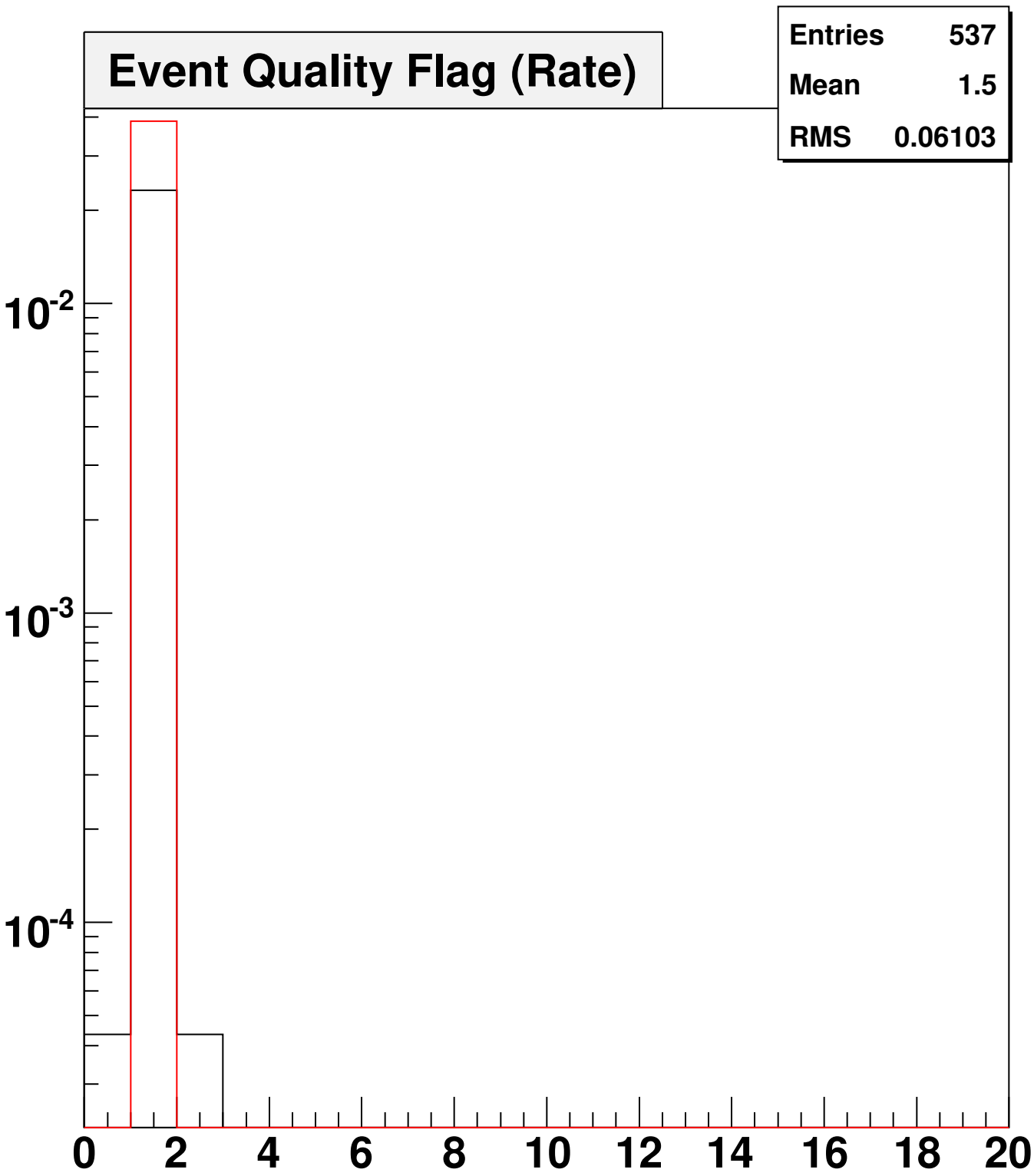


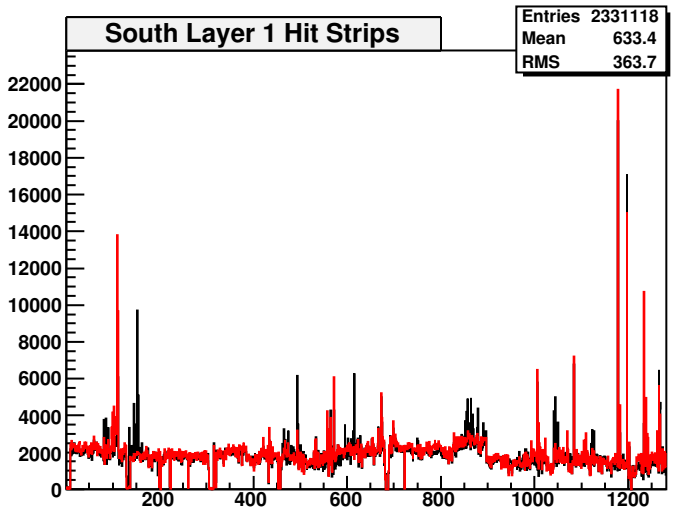


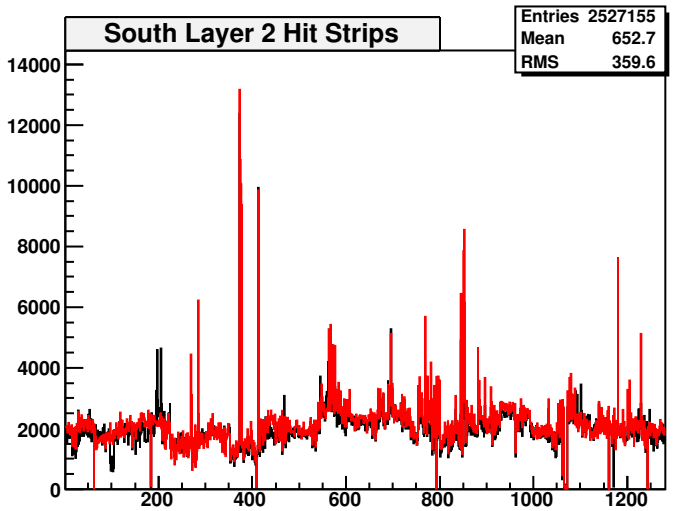
Calorimeter Occupancy ILYR 10-17 (All cells)

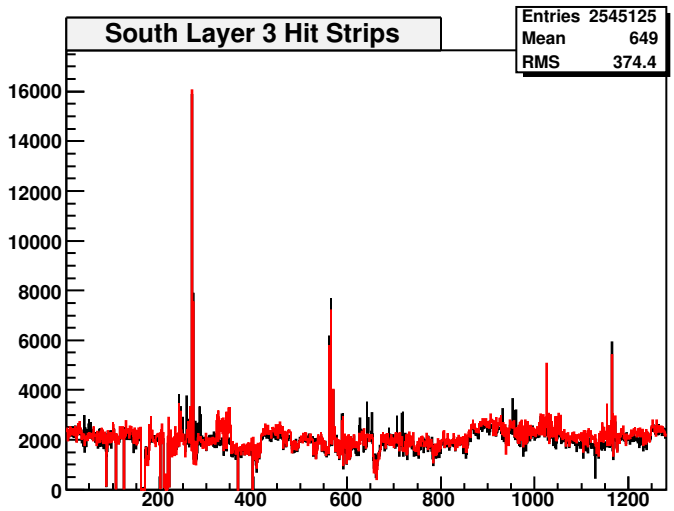


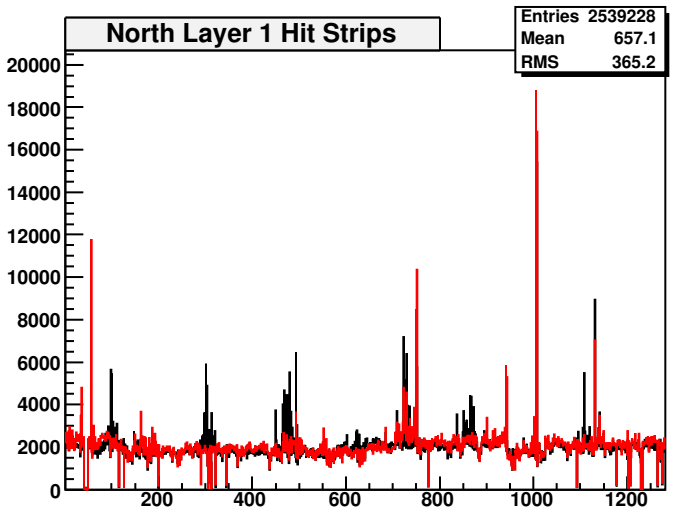
Cal Objects with MET>30 (All cells)

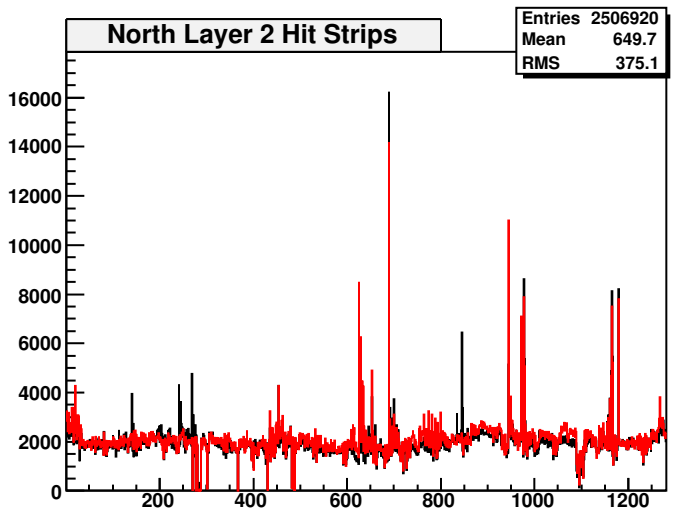

Event Quality Flag (Rate)
Entries 537
Mean 1.5
RMS 0.06103
10-2
10-3
10-4
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

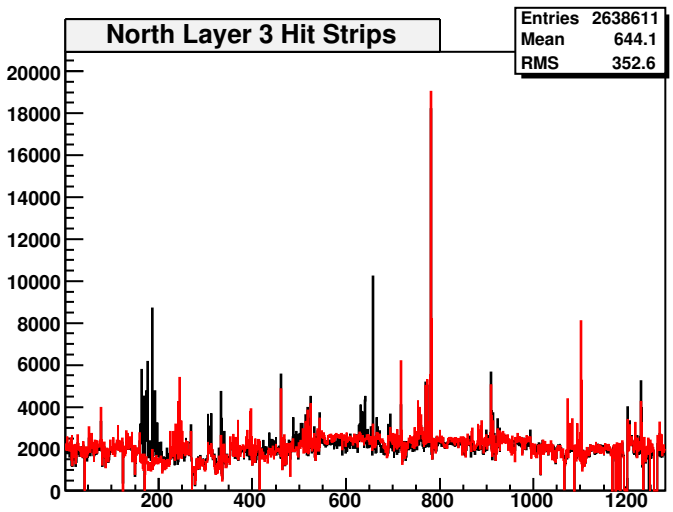




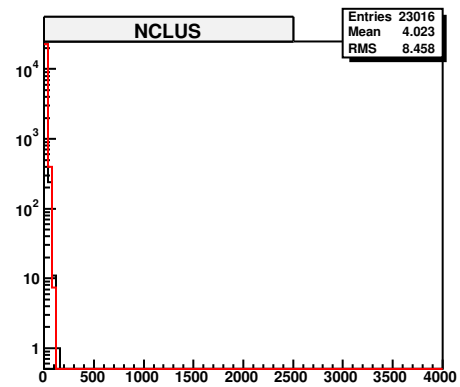


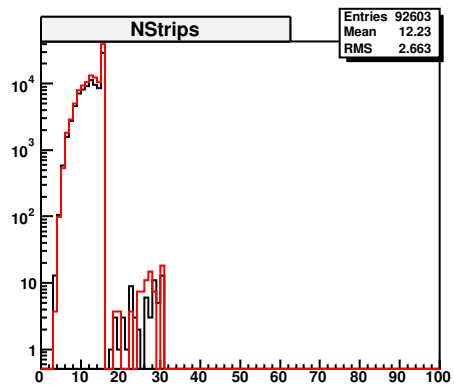


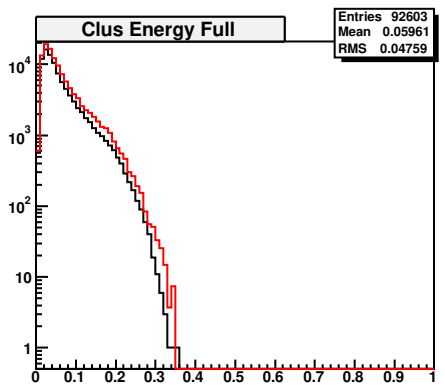


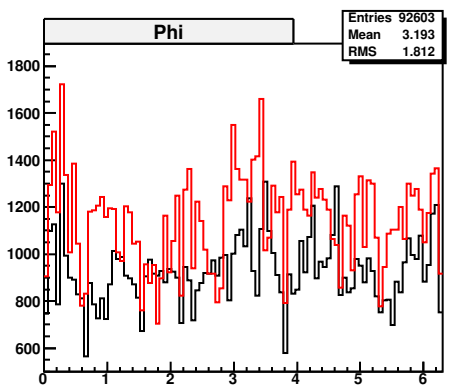


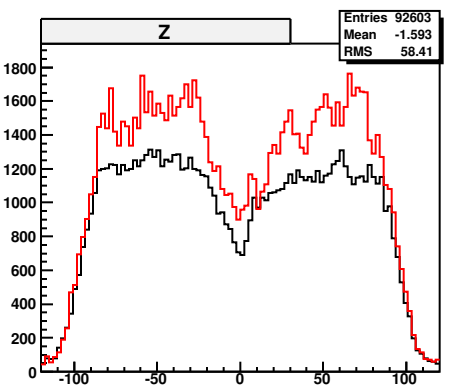
CPS Hit Strips (All Clusters)

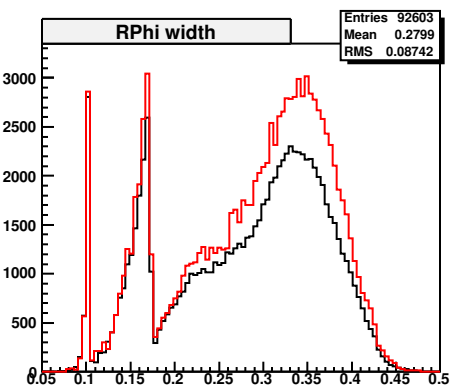


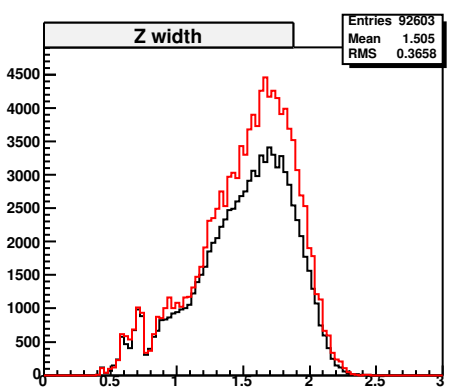


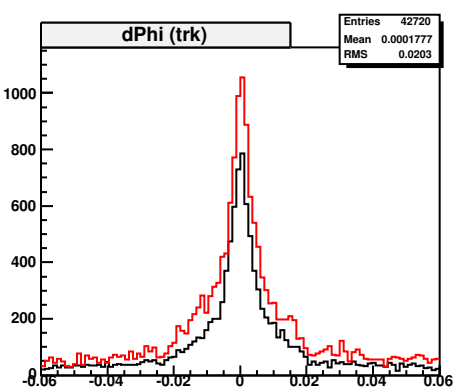


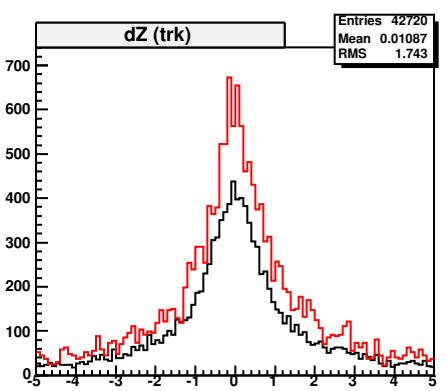


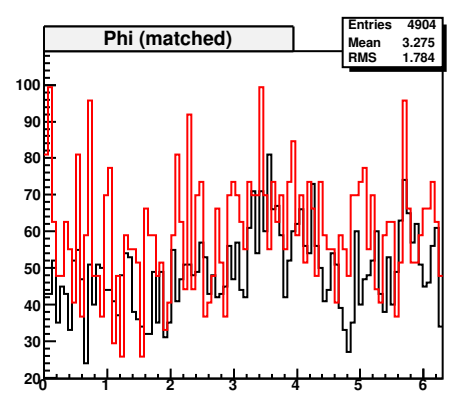


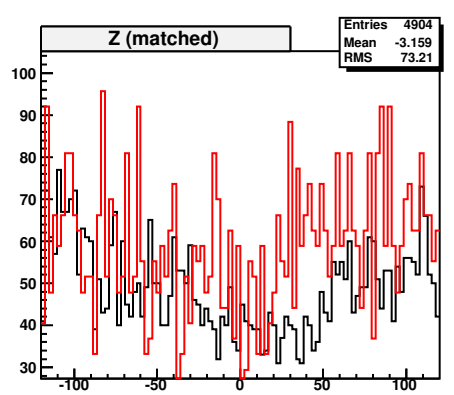




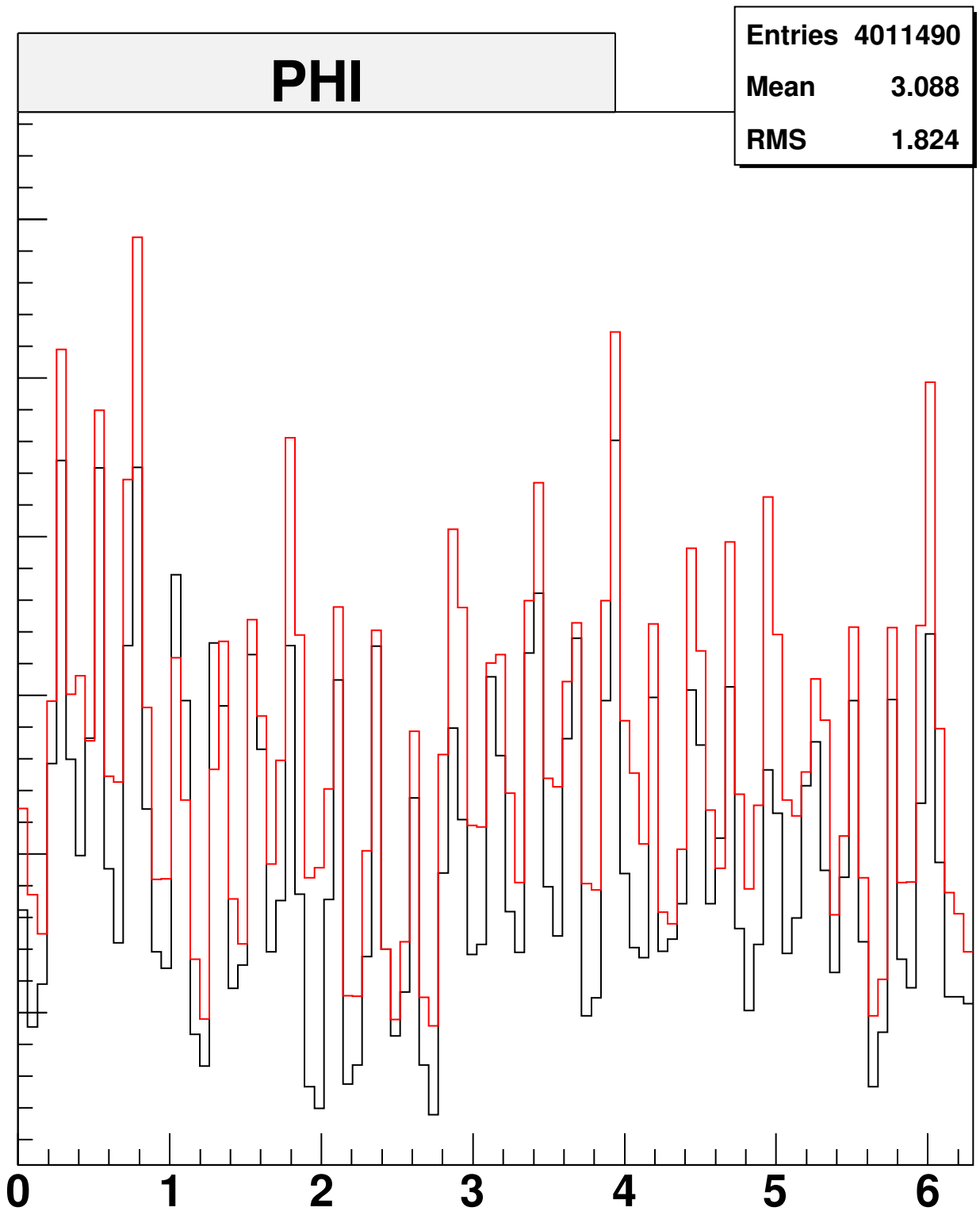


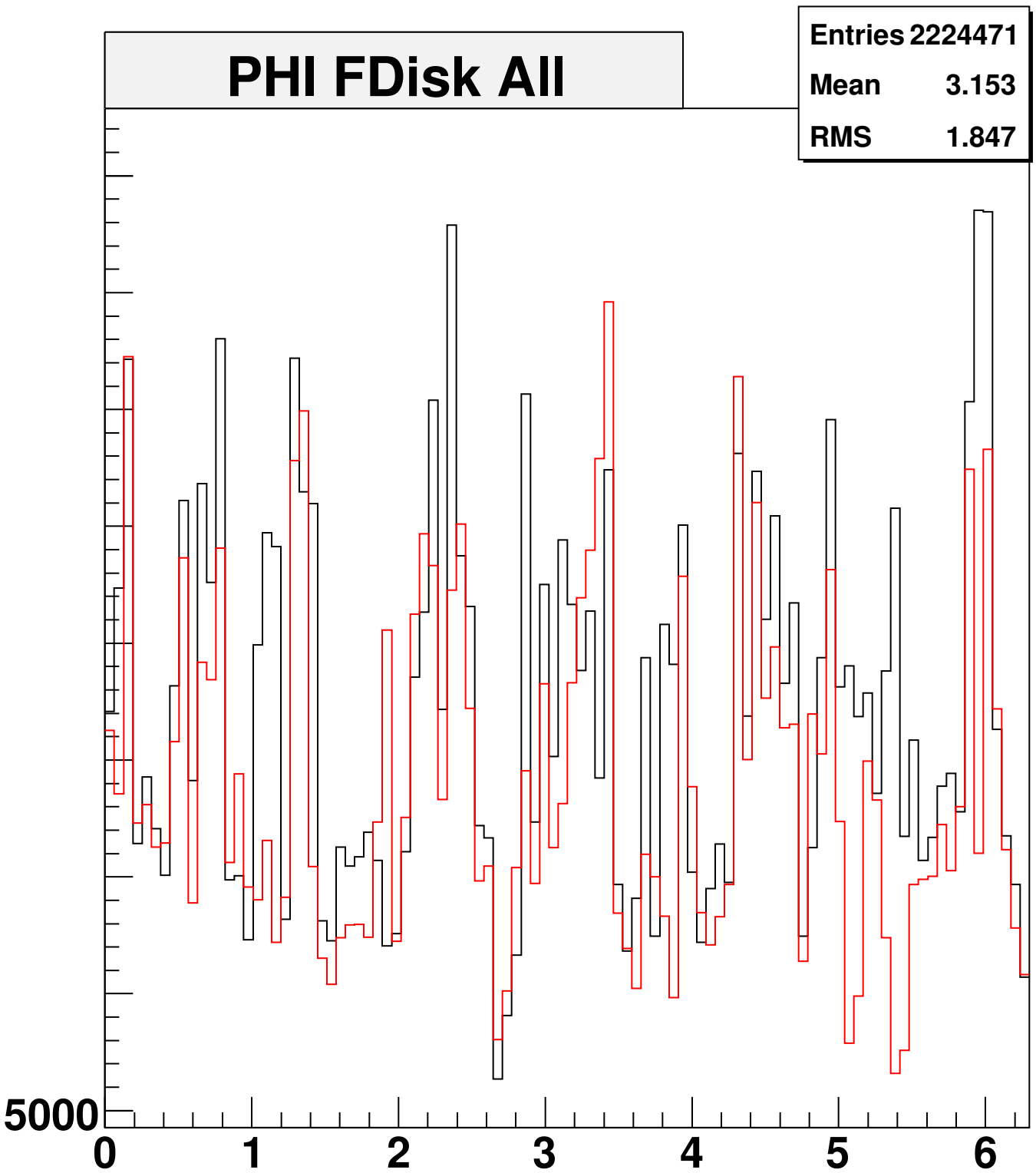


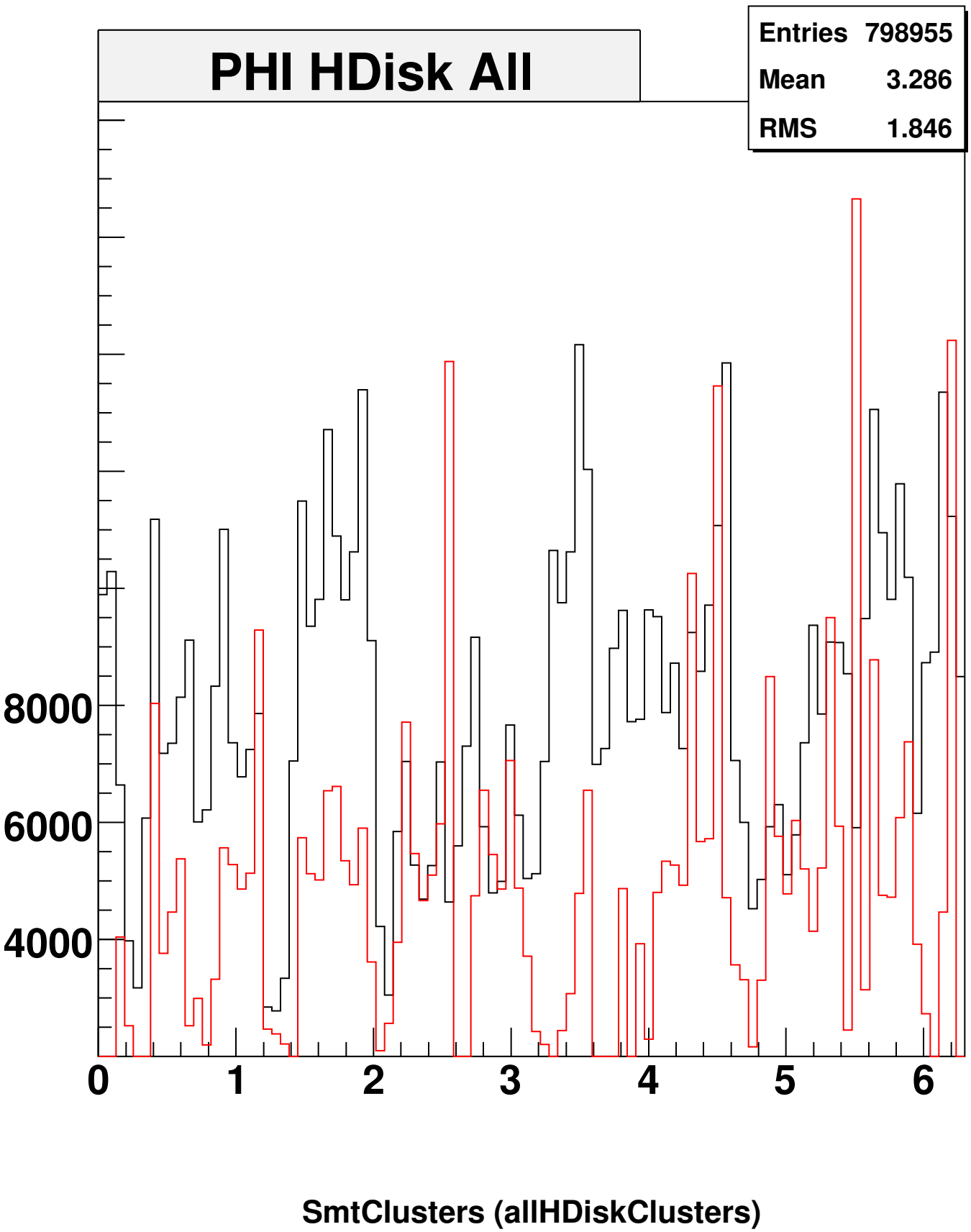


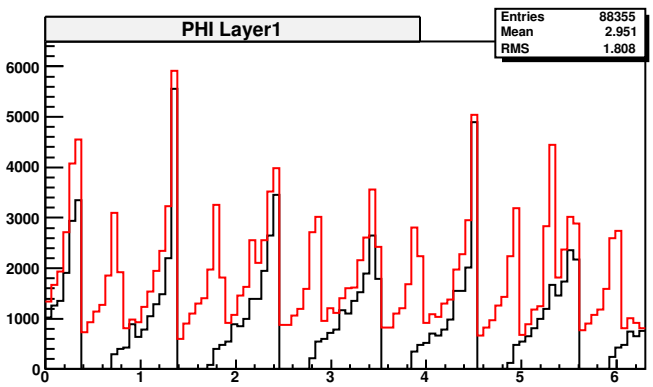


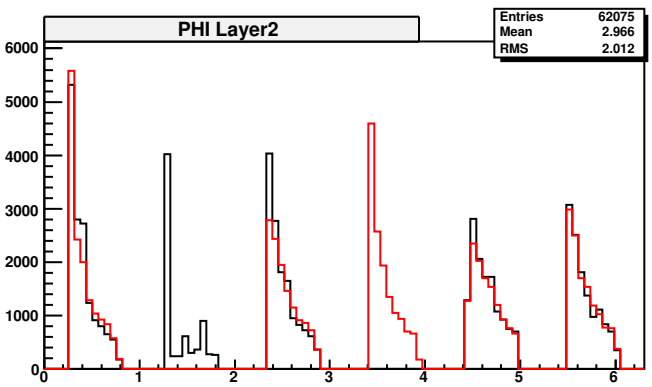
CPS Clusters (All Clusters)

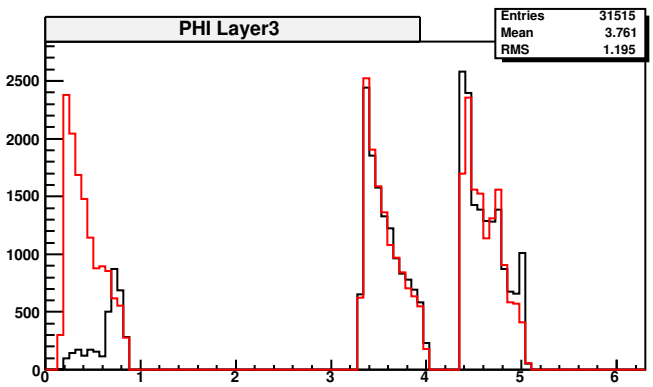

PHI
Entries 4011490
Mean 3.088
RMS 1.824
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

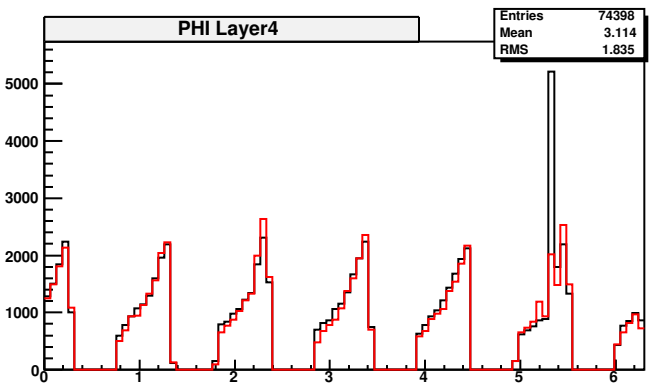

PHI FDisk All
Entries 2224471
Mean 3.153
RMS 1.847
5000
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

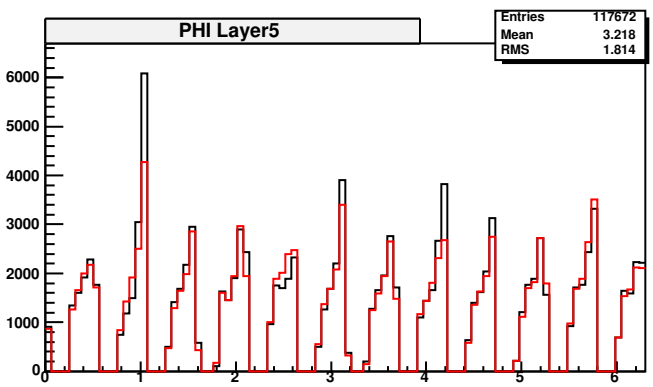

PHI HDisk All
Entries 798955
Mean 3.286
RMS 1.846
8000
6000
4000
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

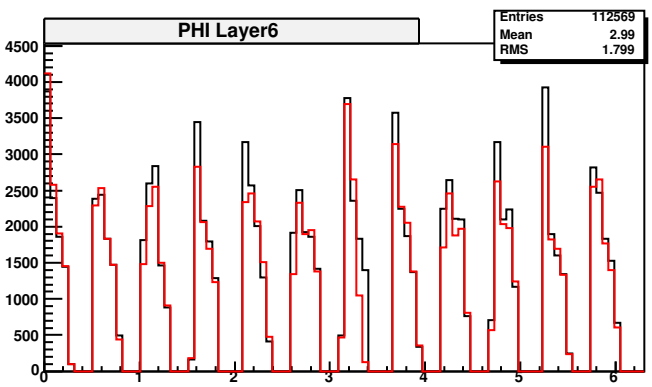


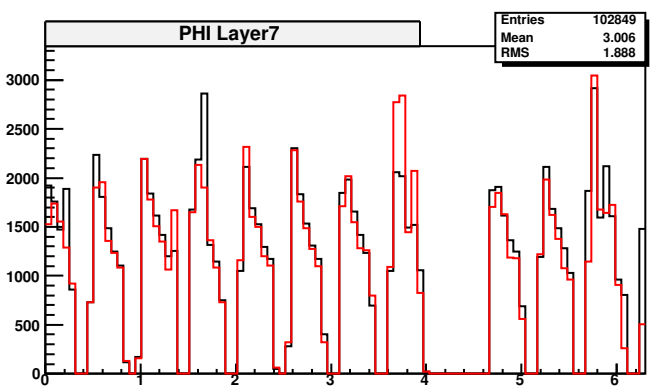


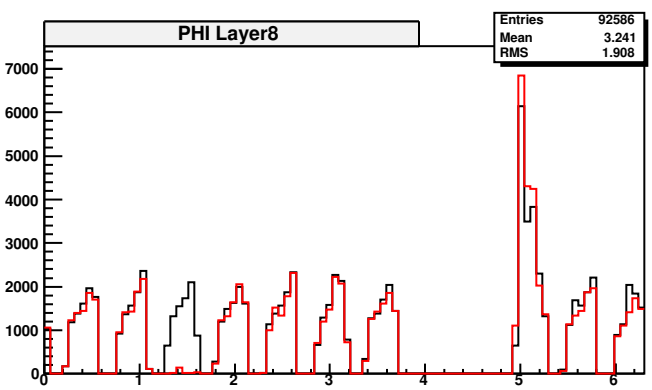




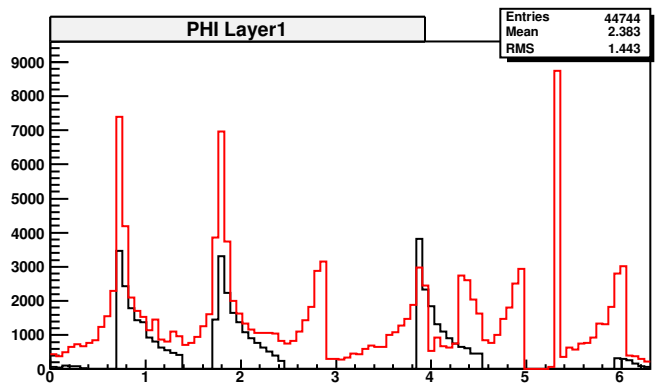


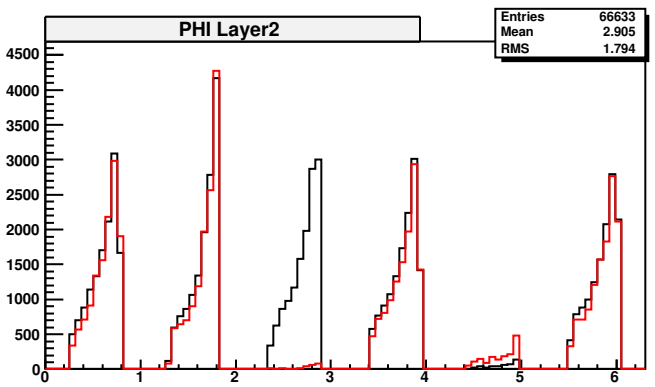


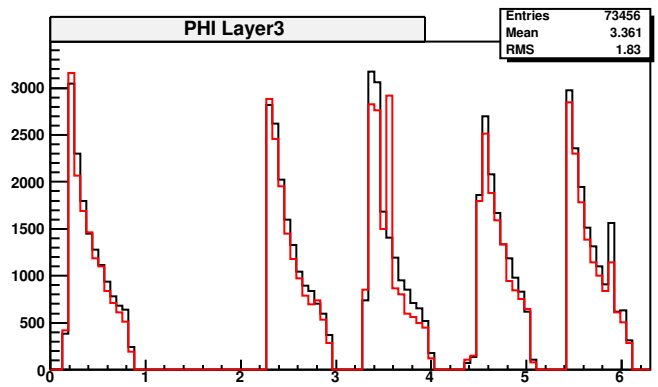


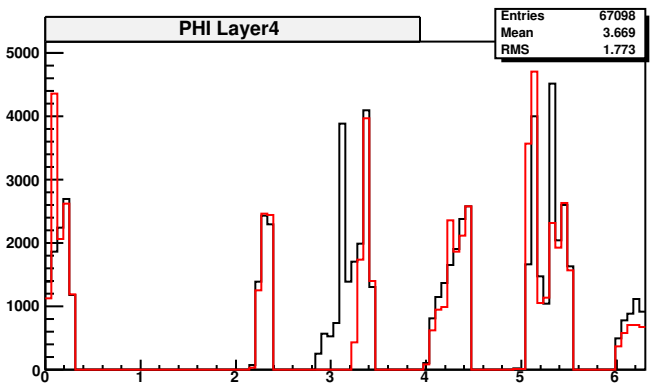


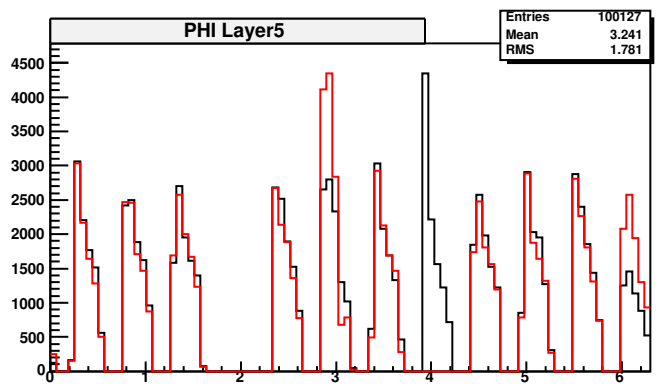
SmtClusters (ClustrBar1)

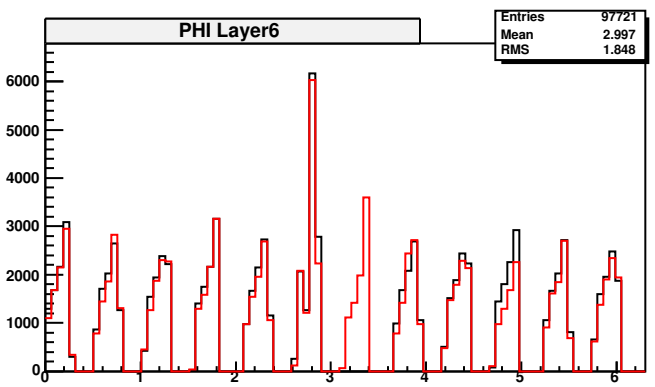


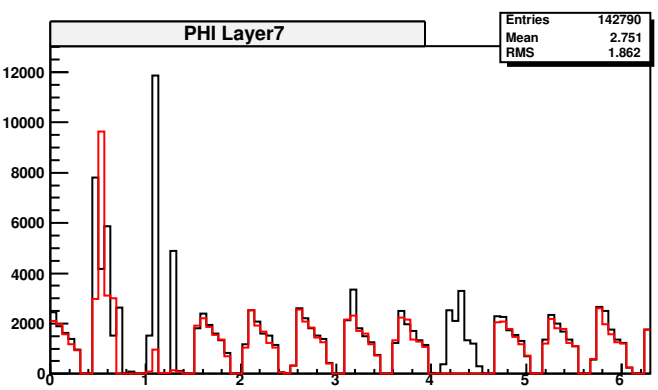


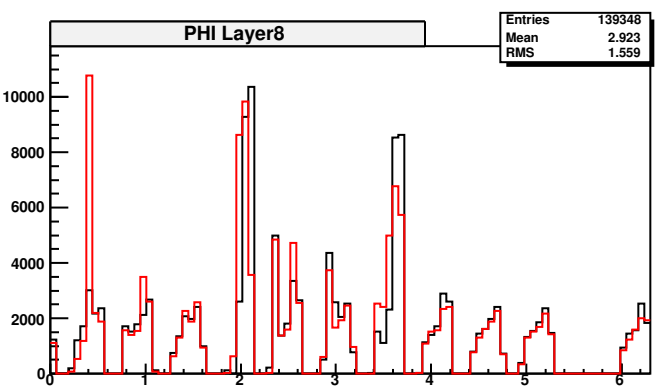




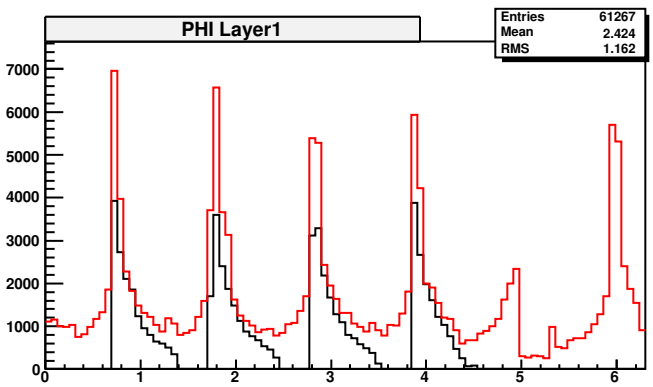


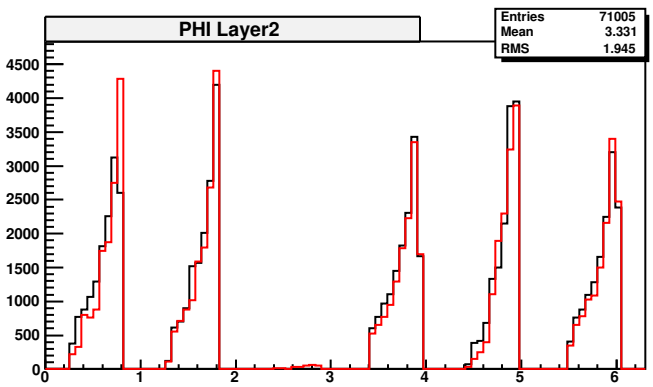


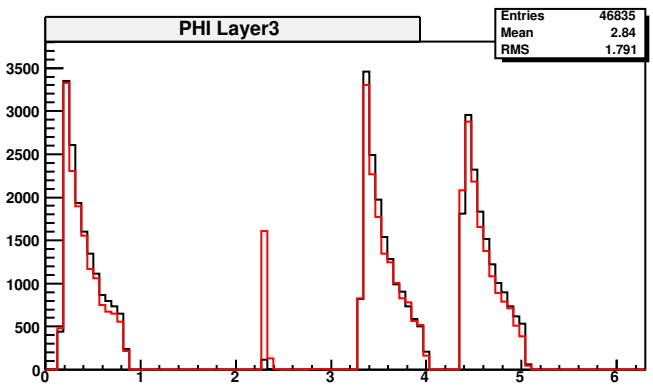


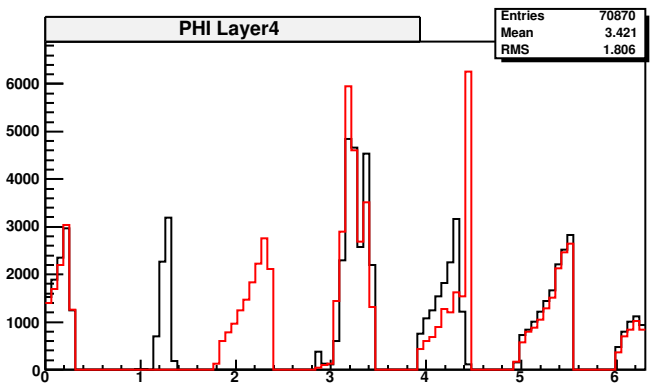


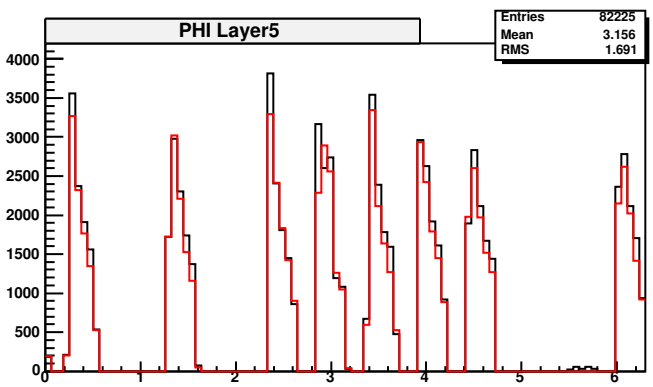
SmtClusters (ClustrBar2)

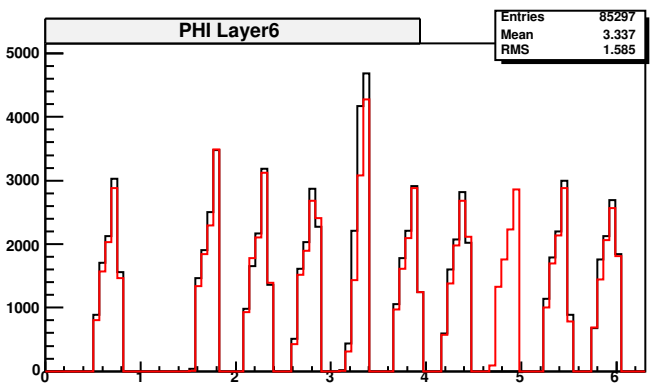


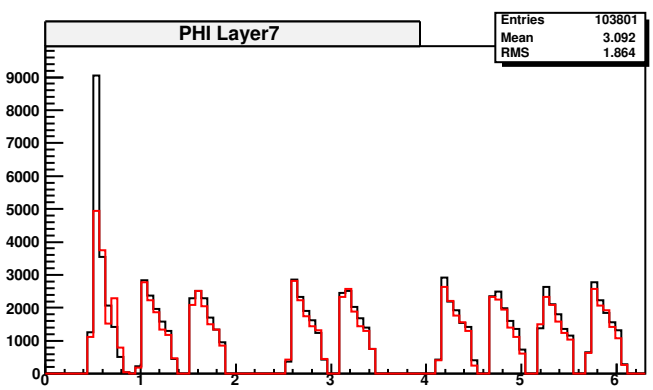


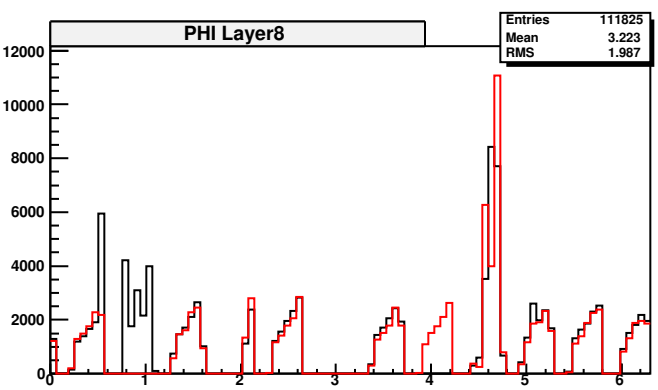




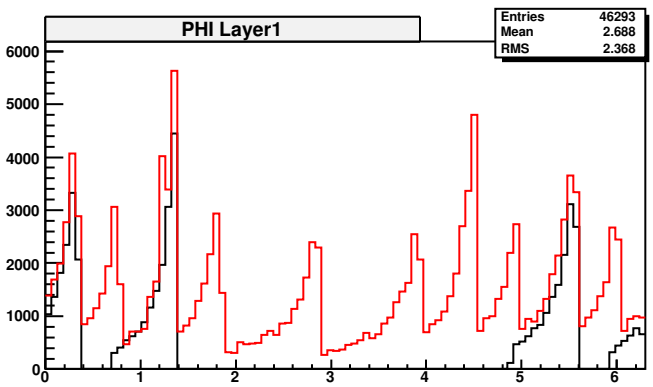


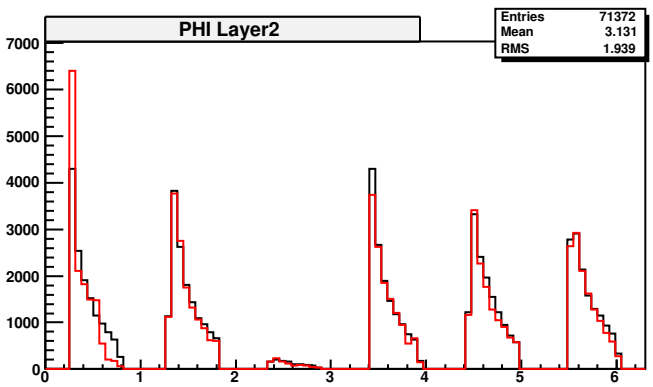


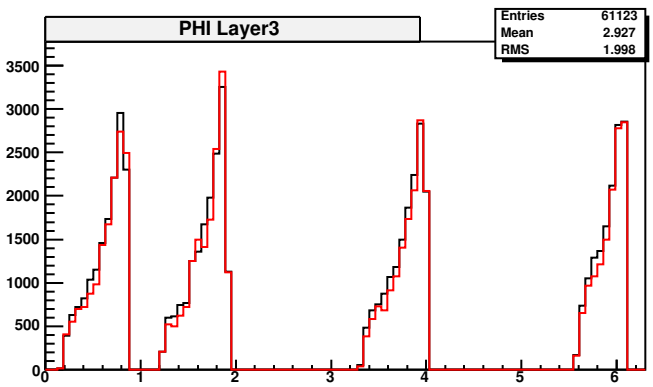


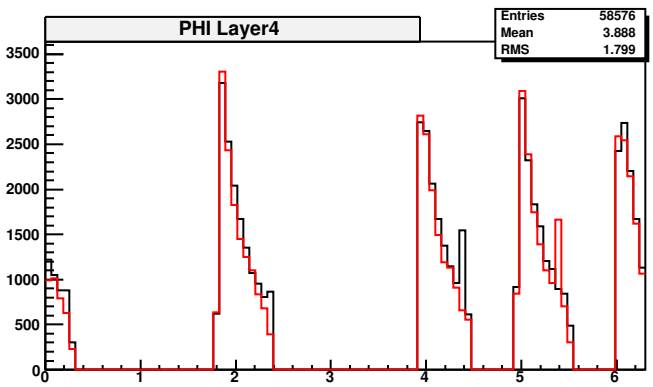


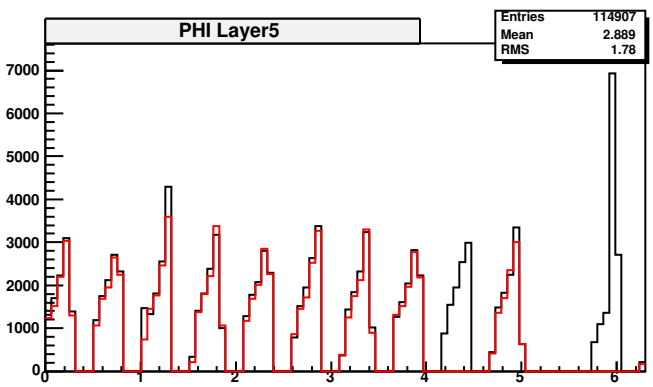
SmtClusters (ClustrBar3)

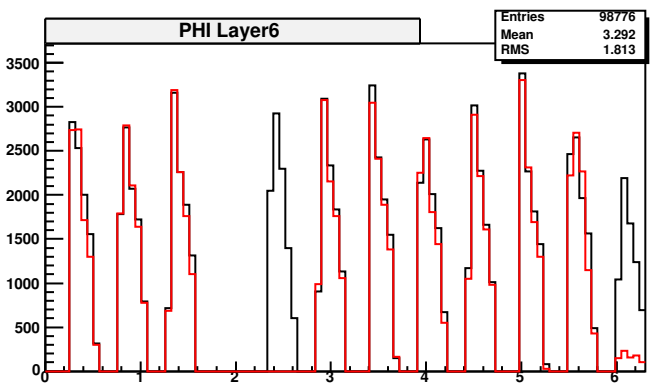


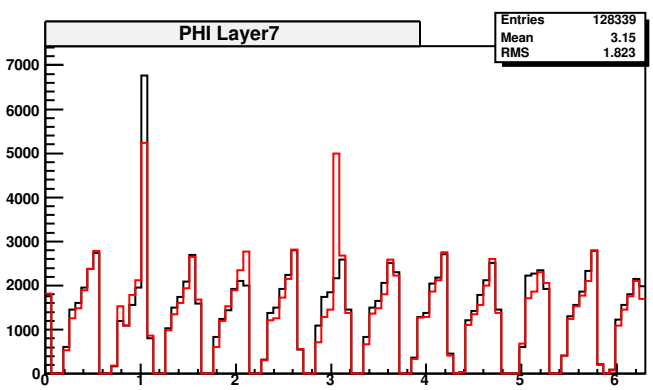


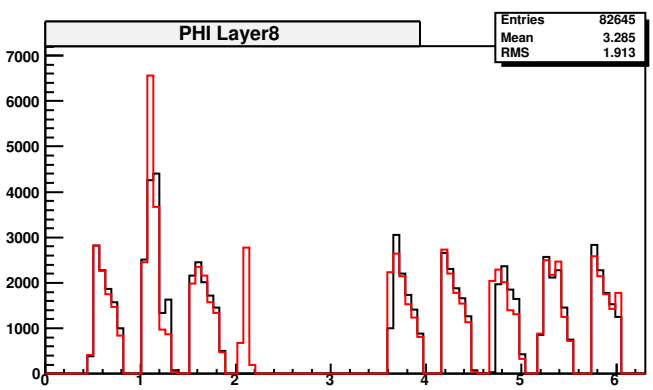




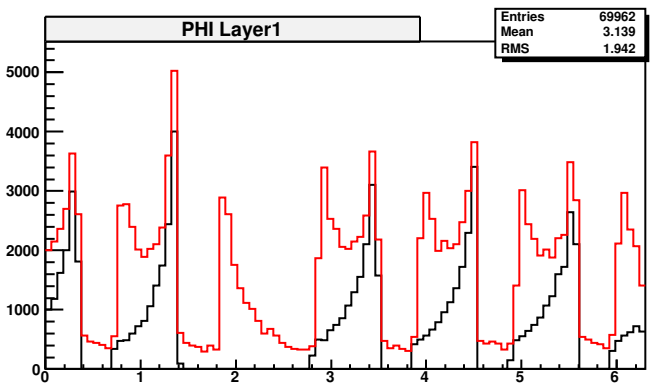


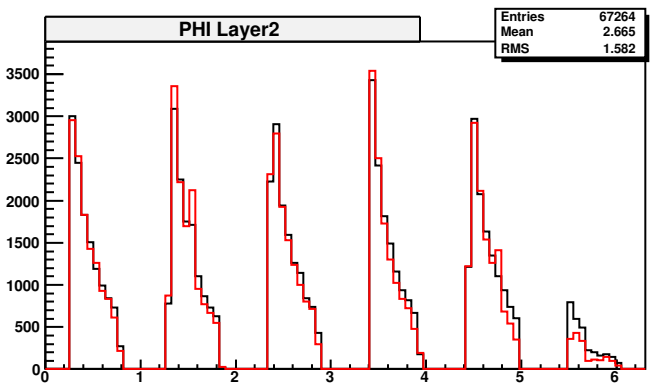


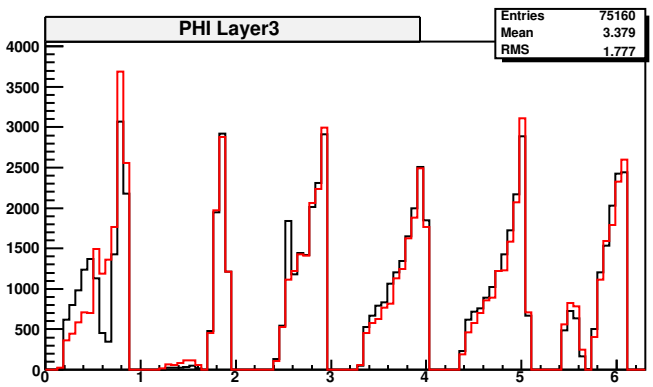


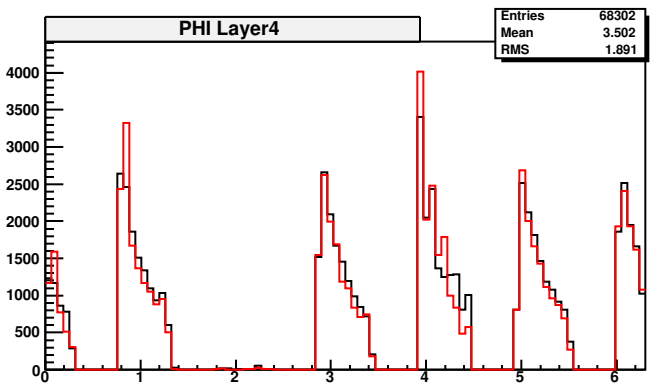


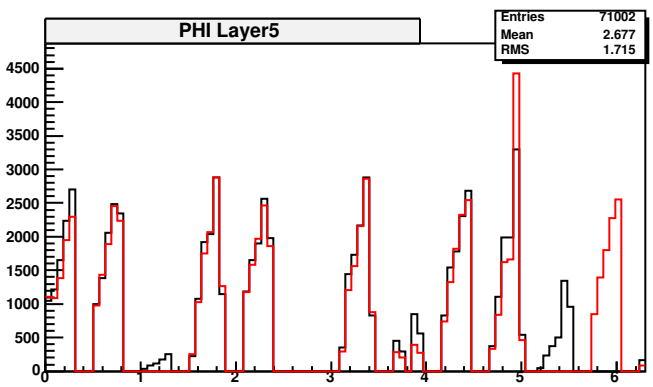
SmtClusters (ClustrBar4)

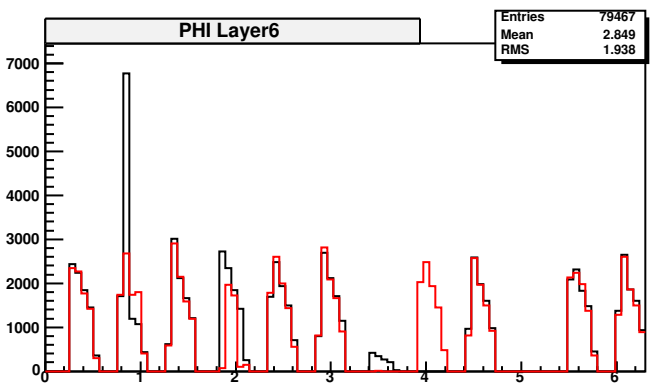


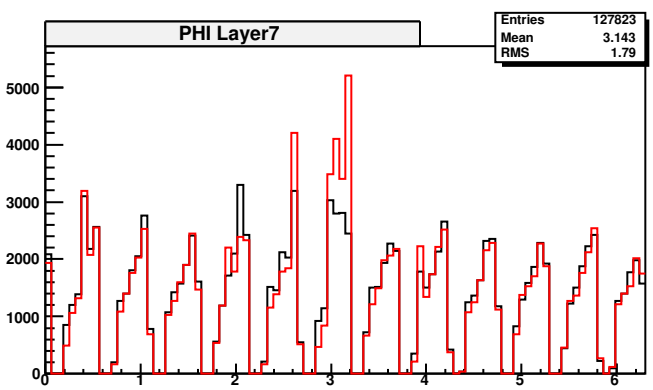


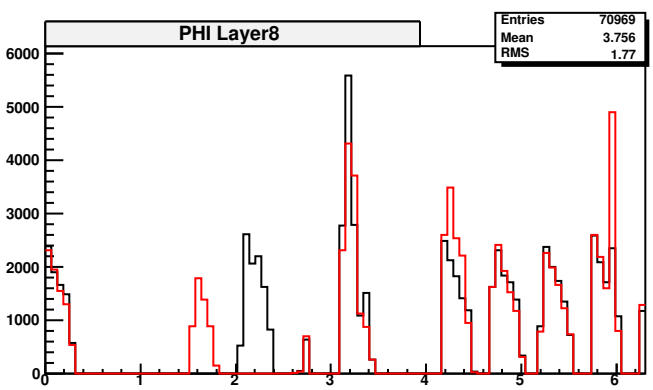




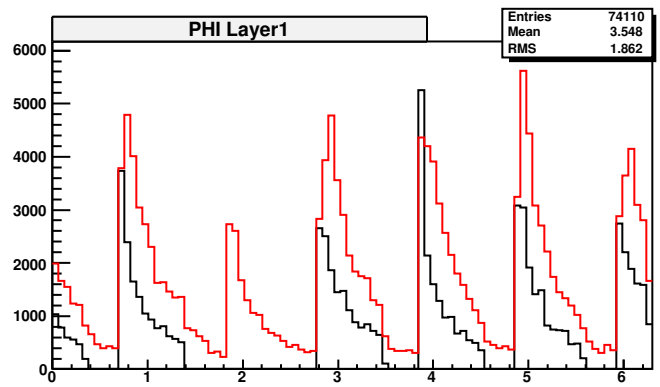


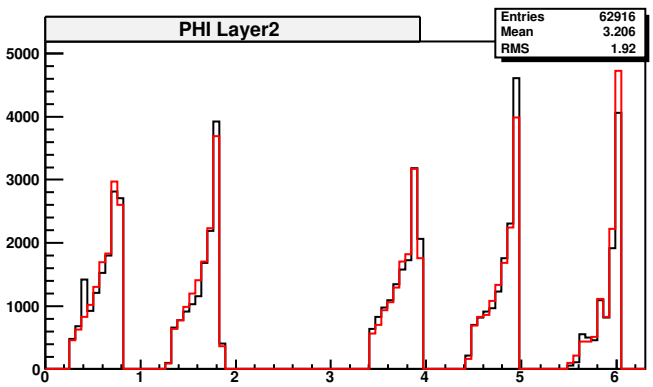


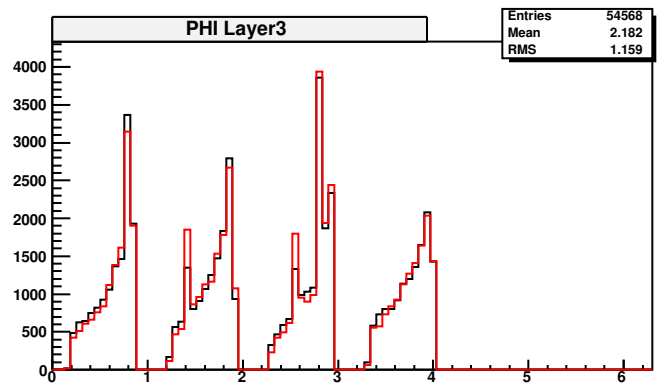


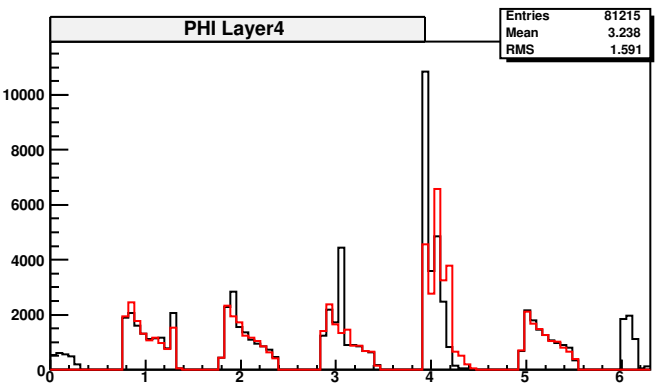


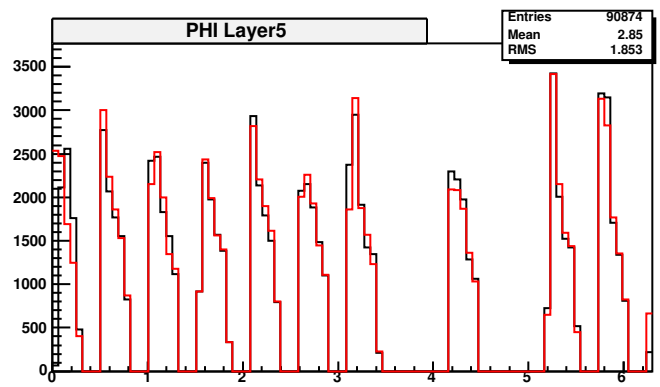
SmtClusters (ClustrBar5)

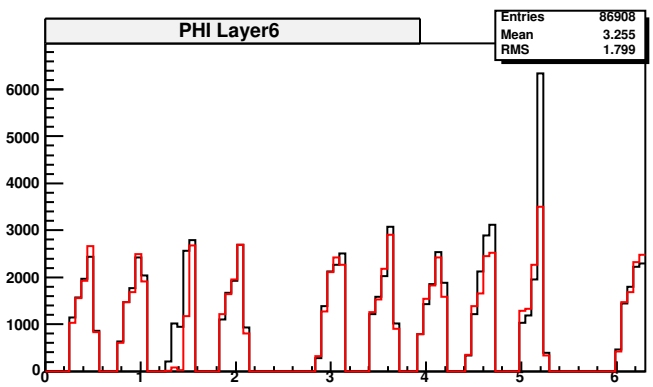


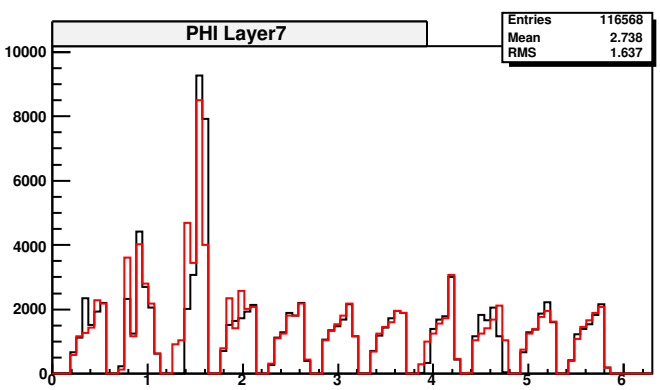


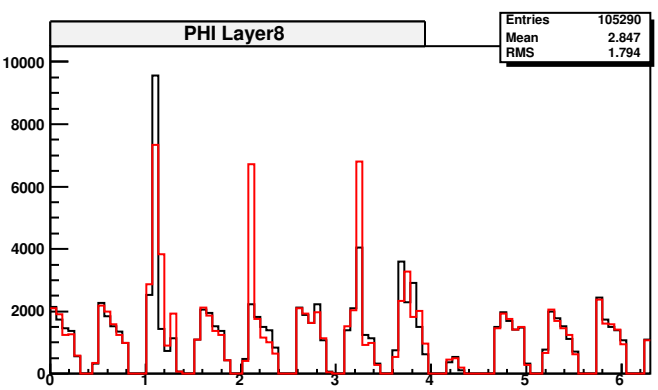




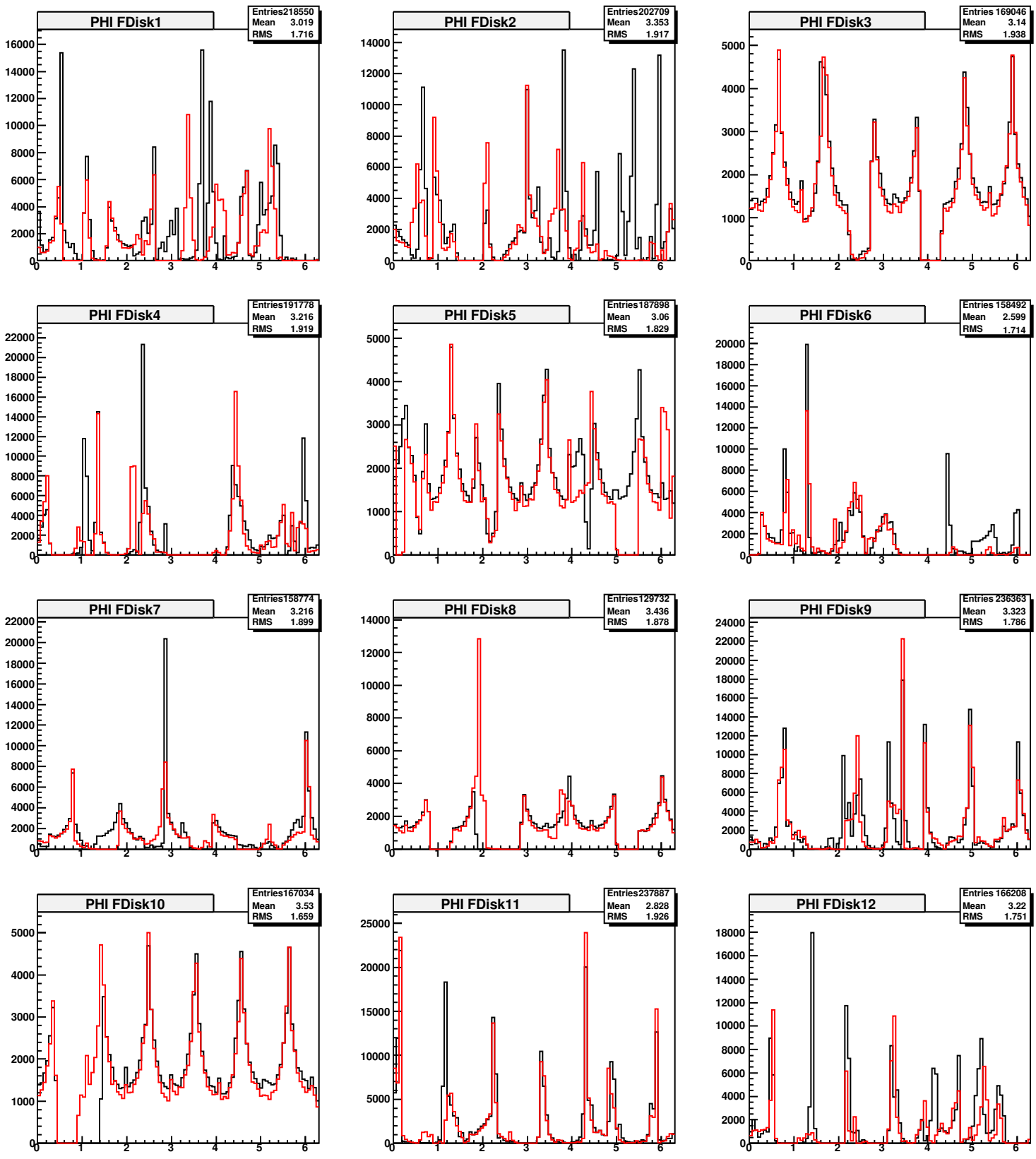




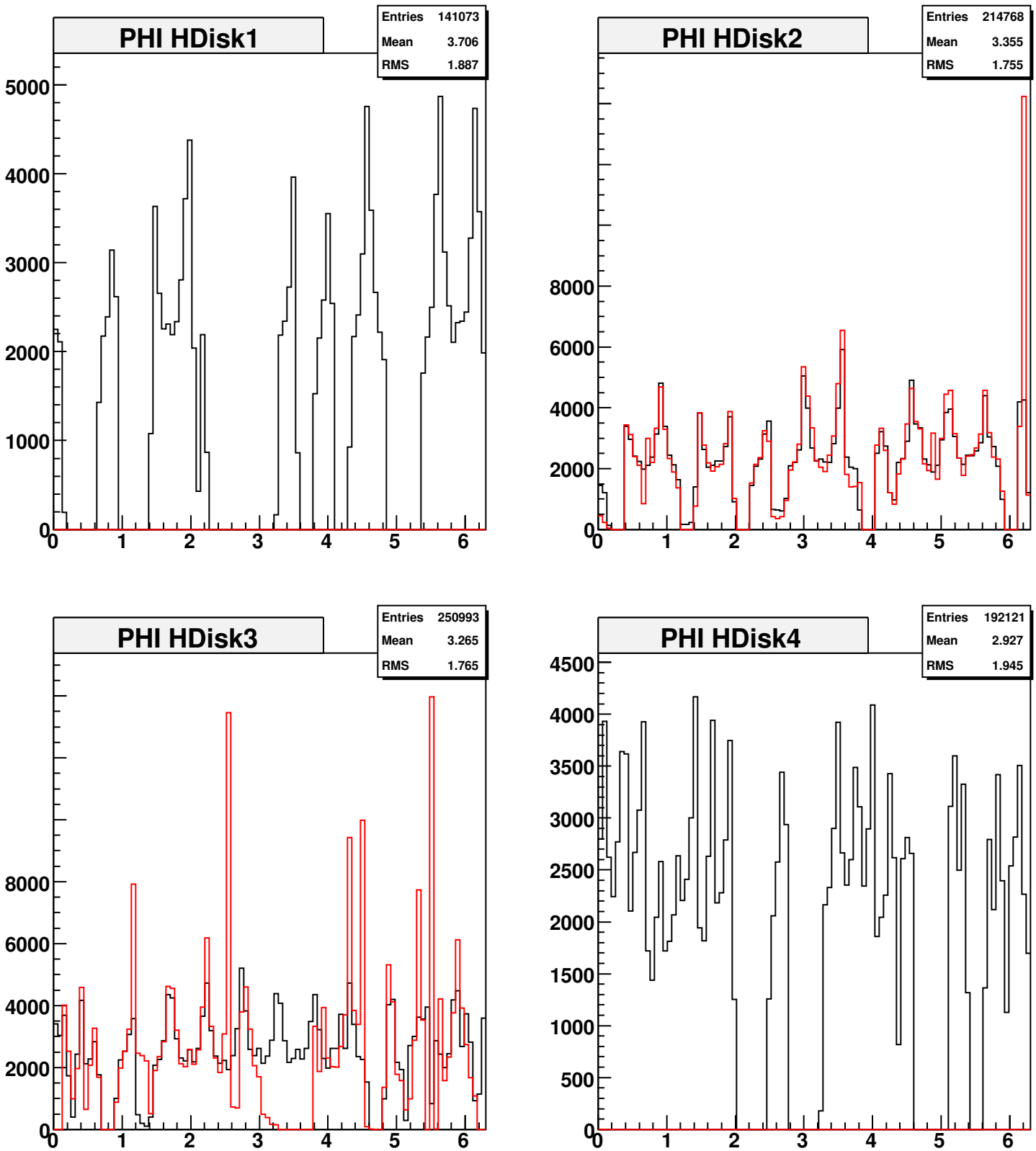




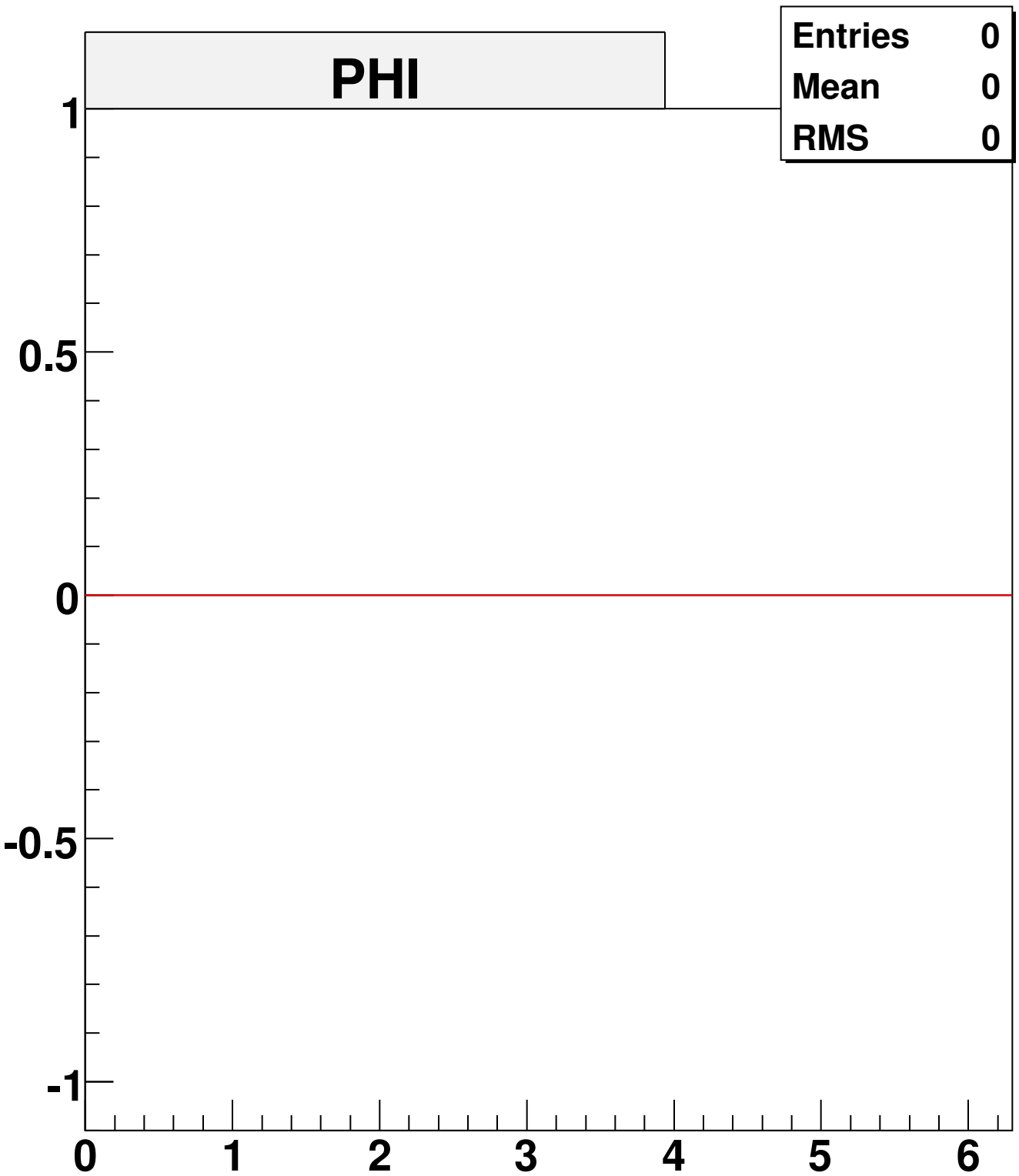
SmtClusters (ClustrBar6)

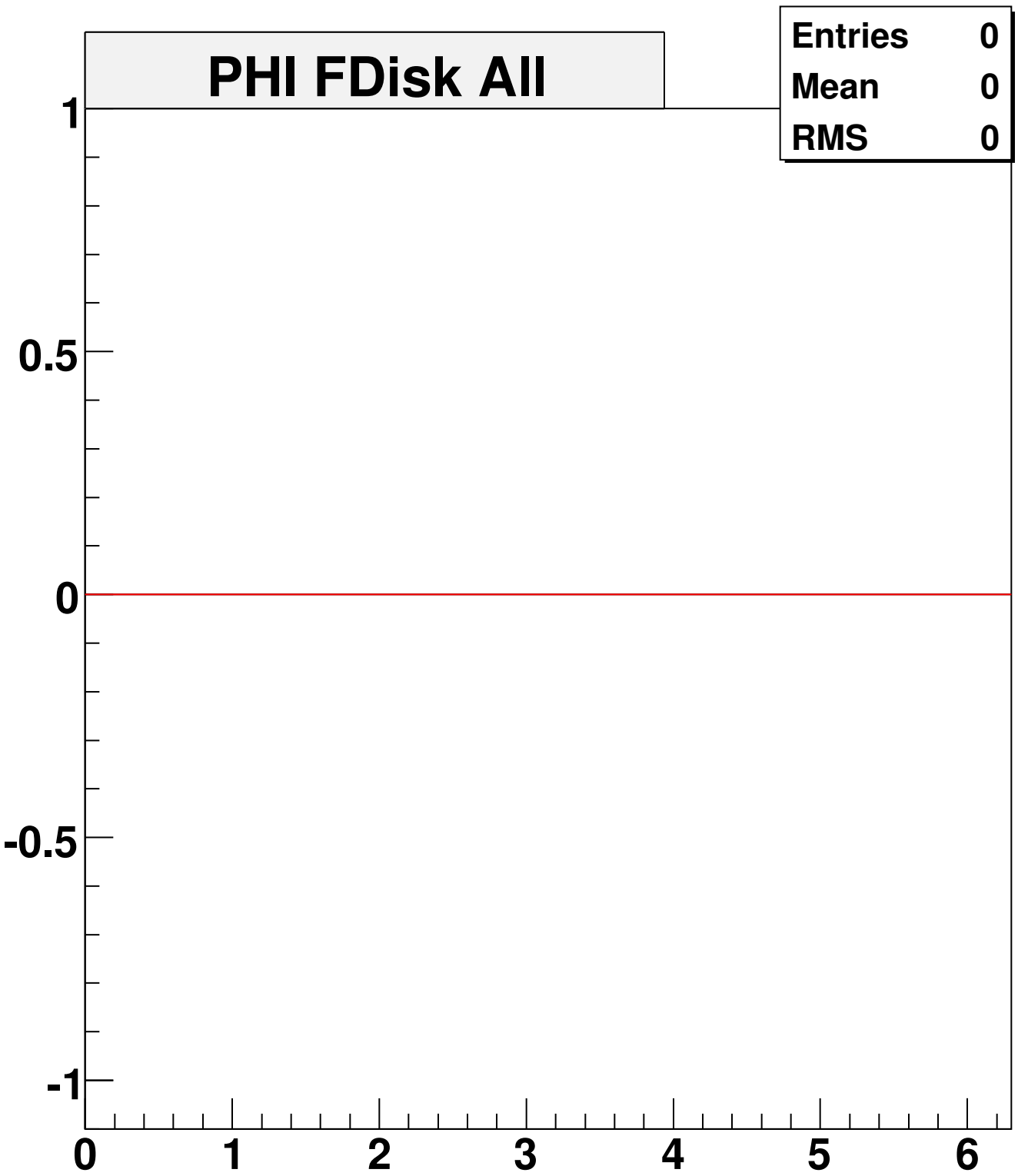


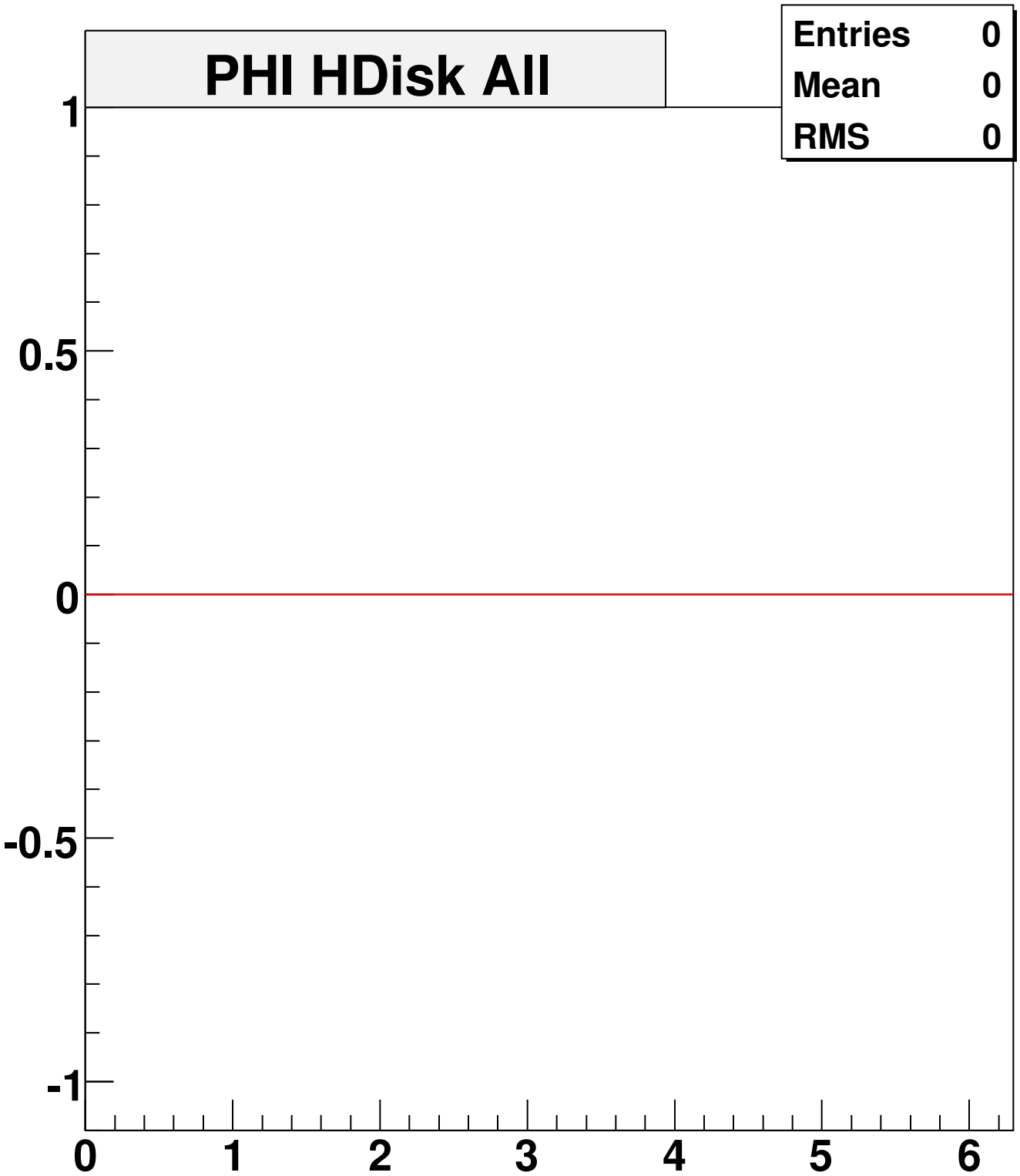
SmtClusters (FDiskClusters)

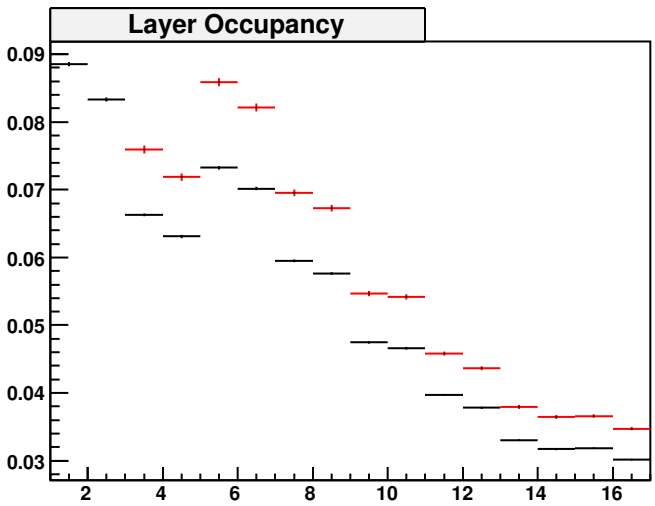


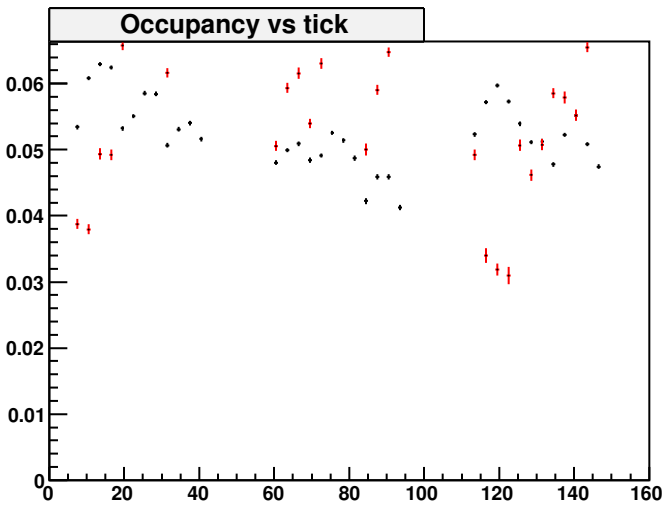
SmtClusters (HDiskClusters)

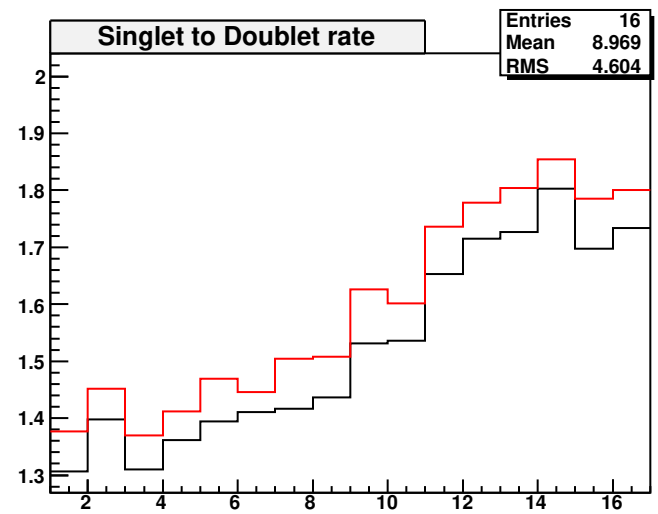

PHI
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)

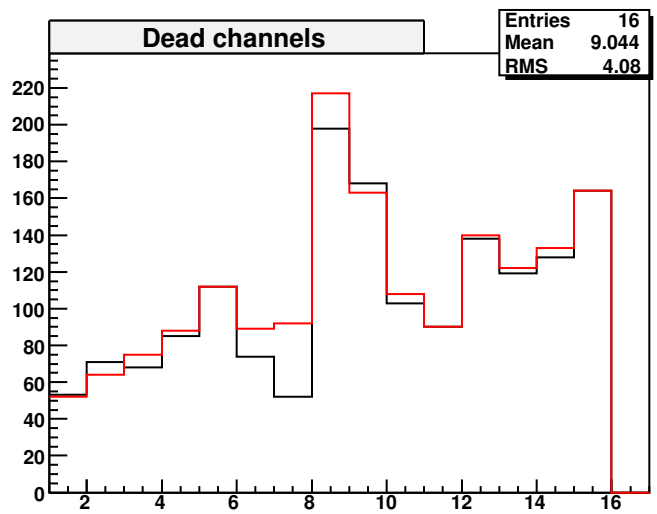

PHI FDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allFDiskTClusters)

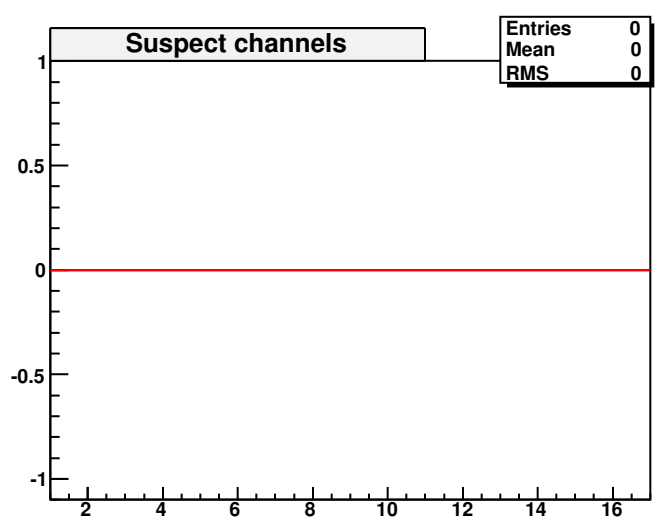

PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allHDiskTClusters)

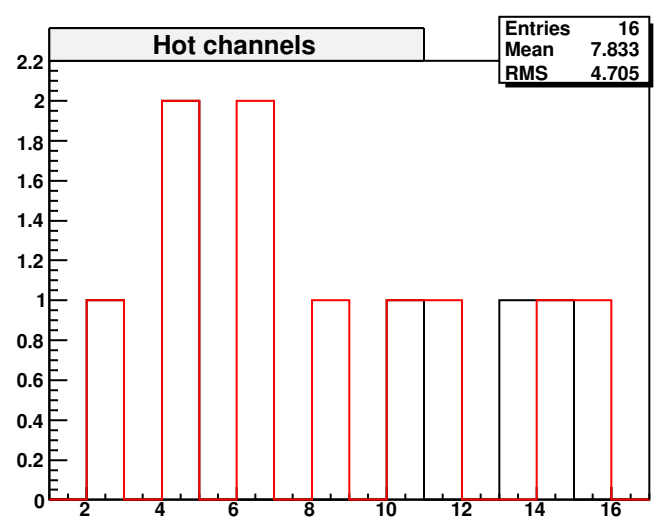




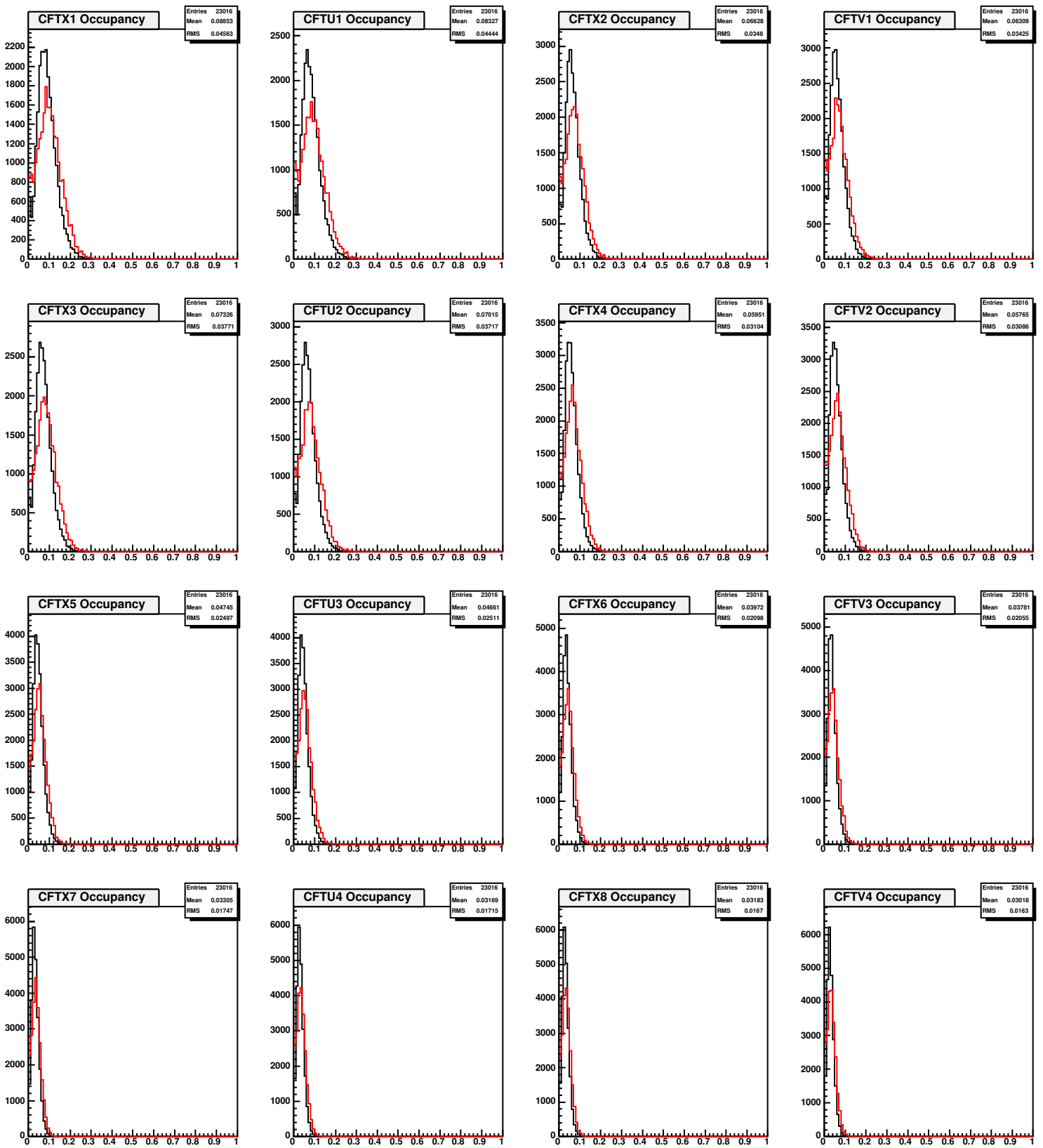




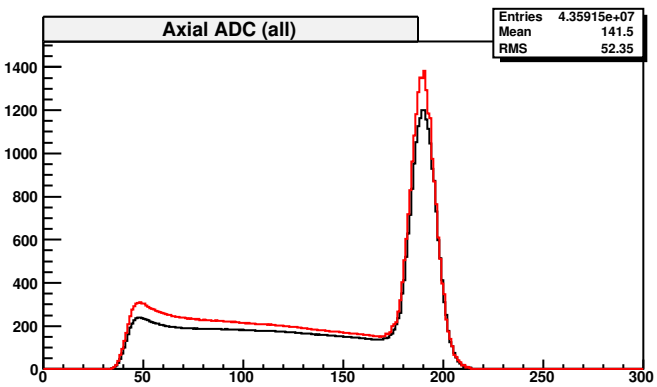


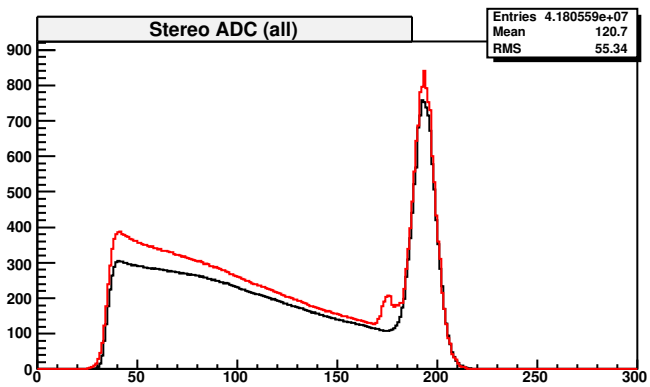


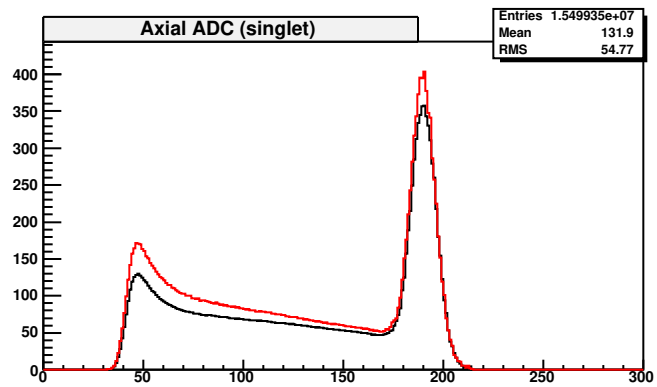
CFT Summary (All Clusters)

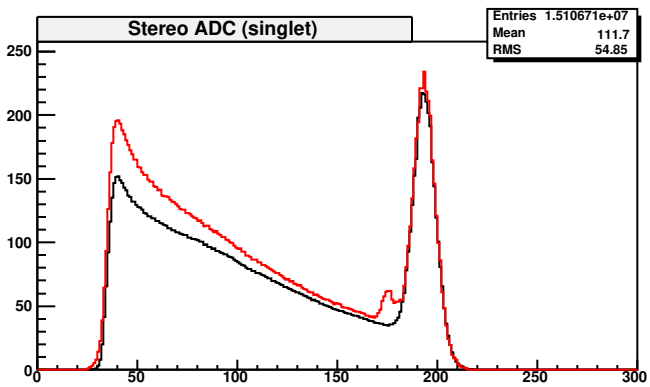


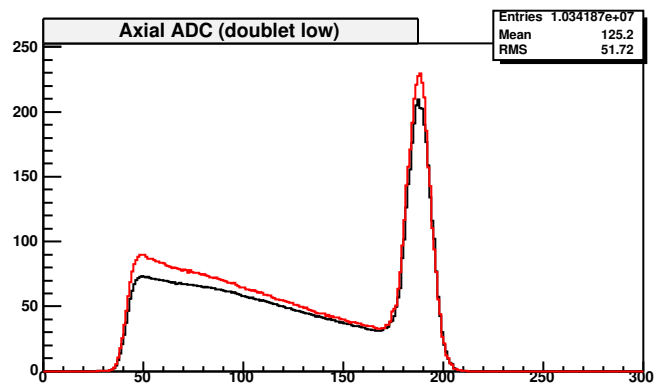
CFT Occupancy (All Clusters)

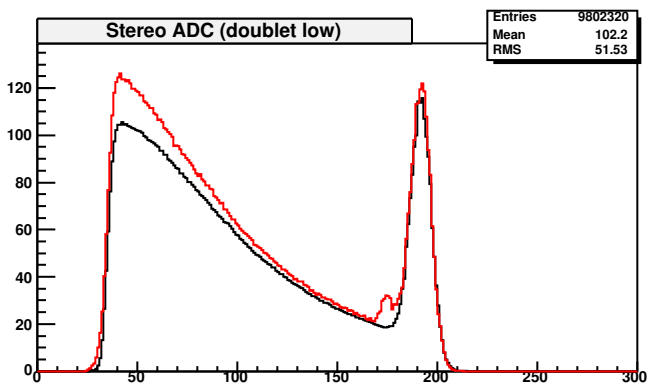


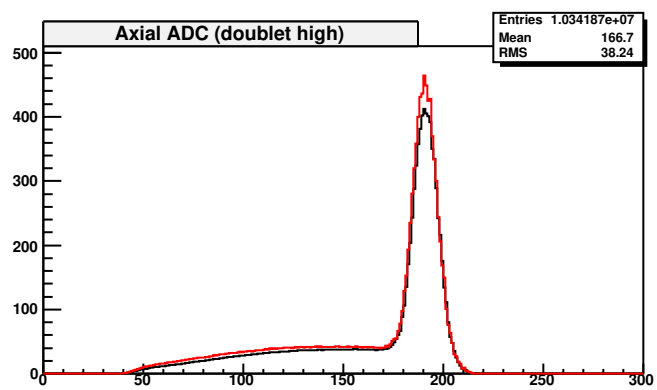


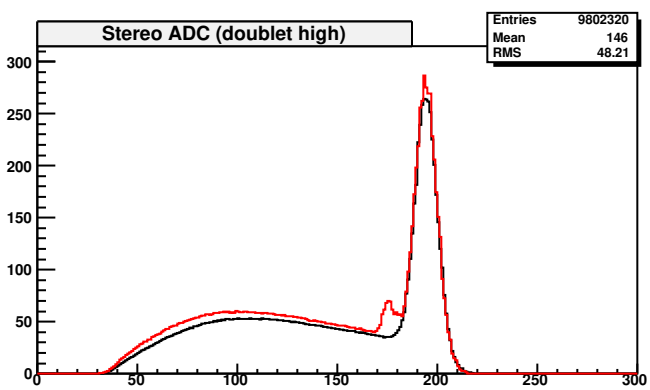




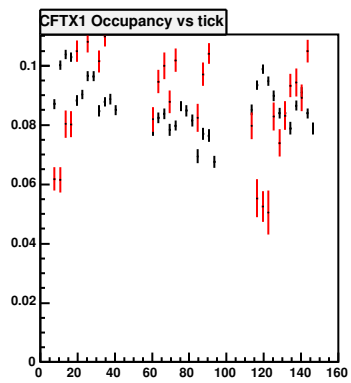


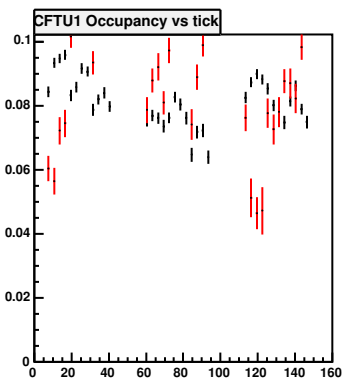


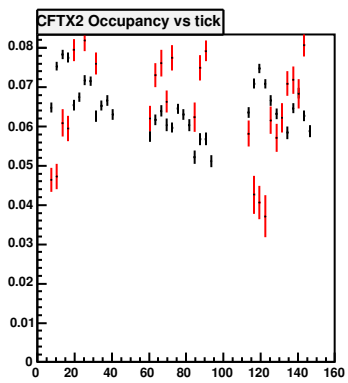


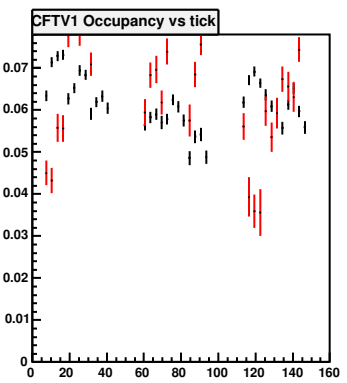


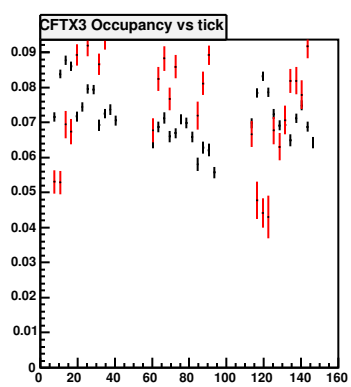
CFT ADC Summary (All Clusters)

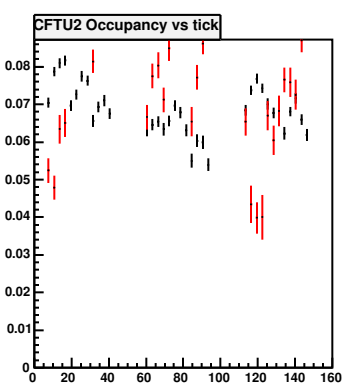


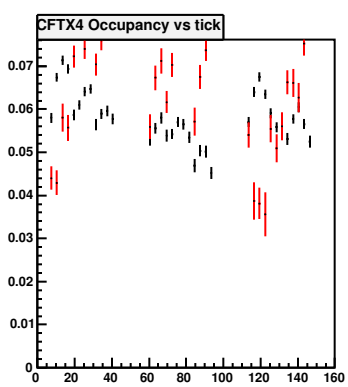


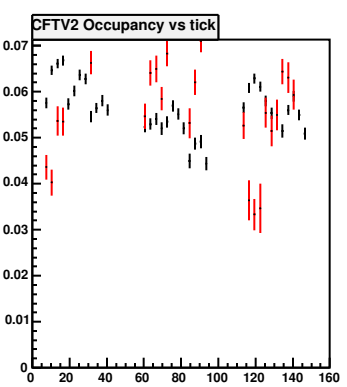


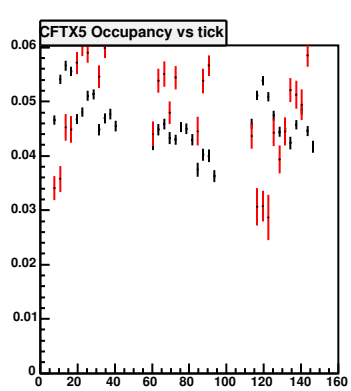


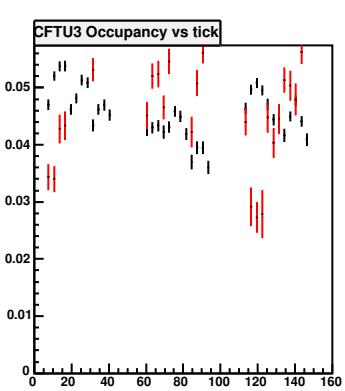


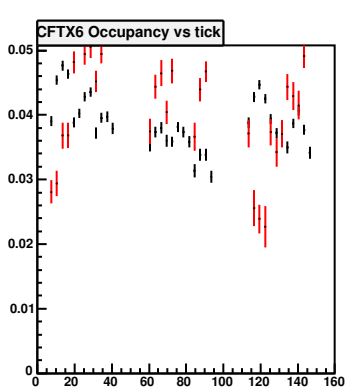


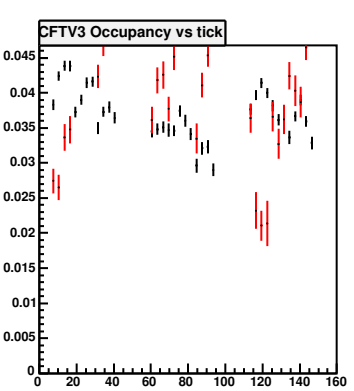


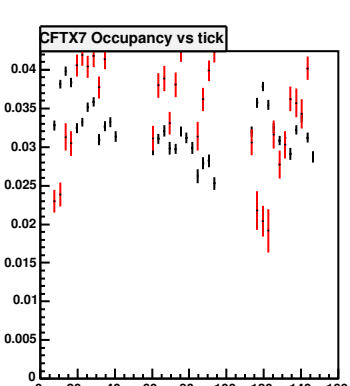


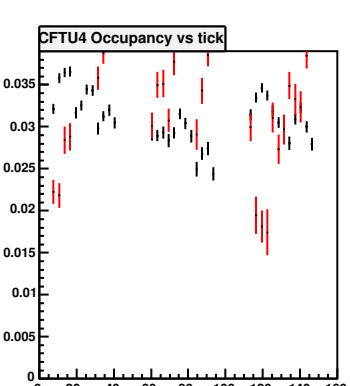


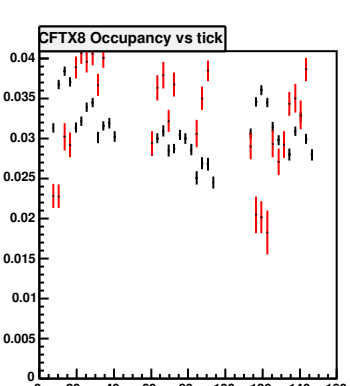


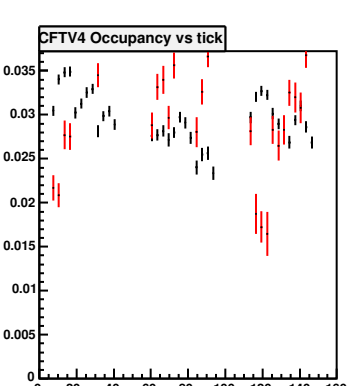




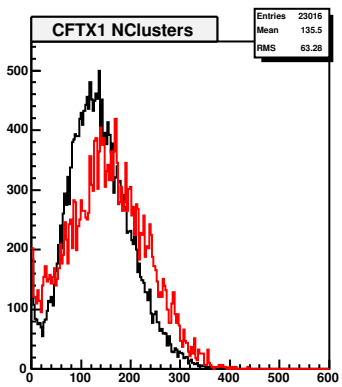


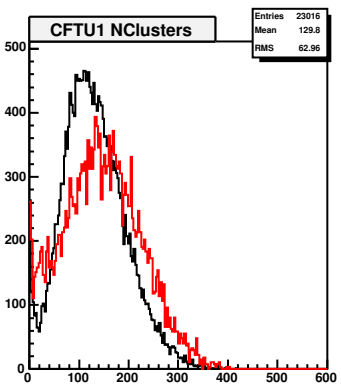


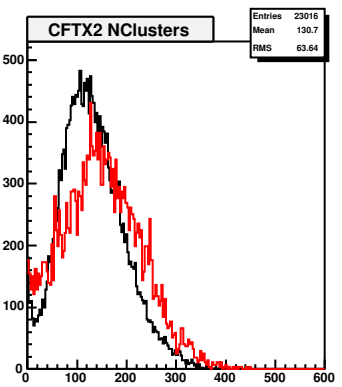


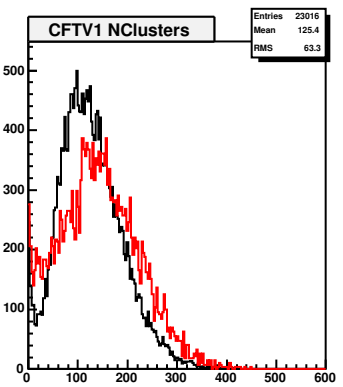


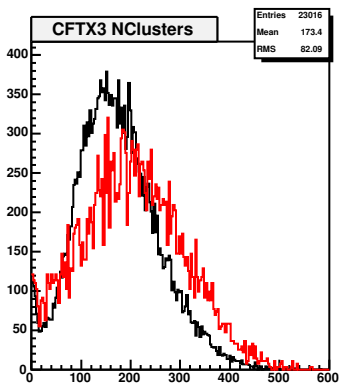
CFT Occupancy vs Tick (All Clusters)

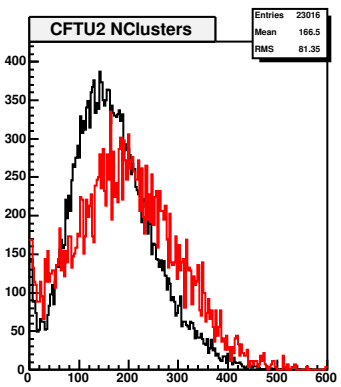


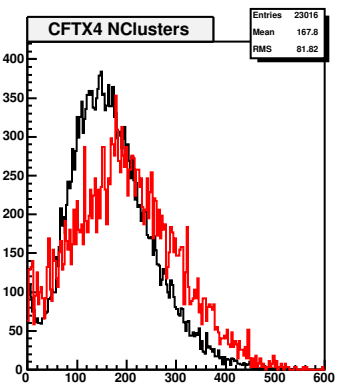


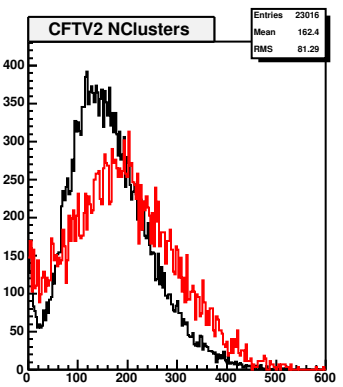


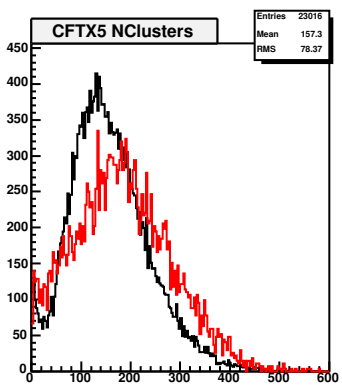


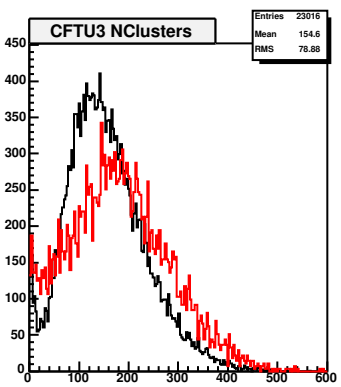


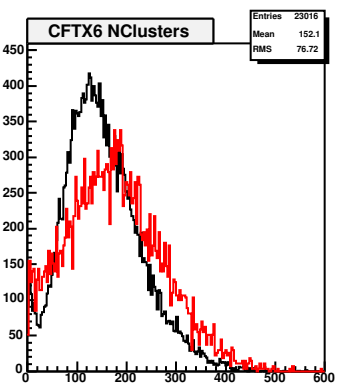


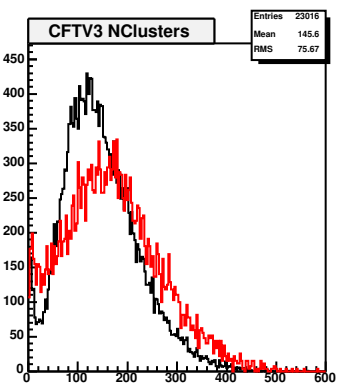


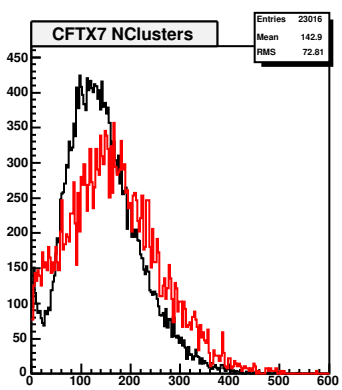


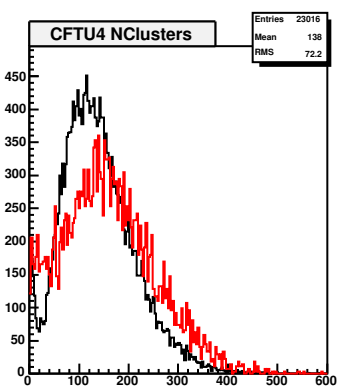


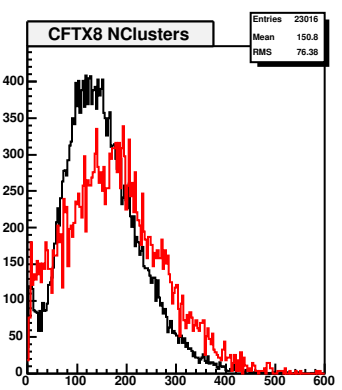


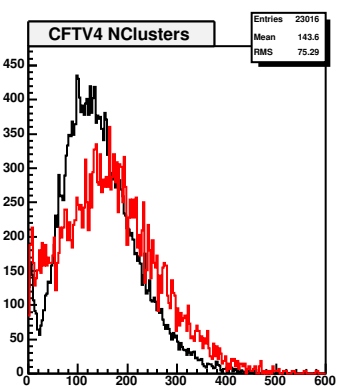




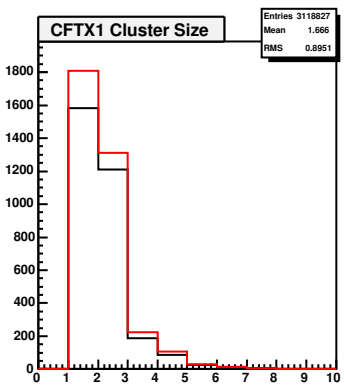


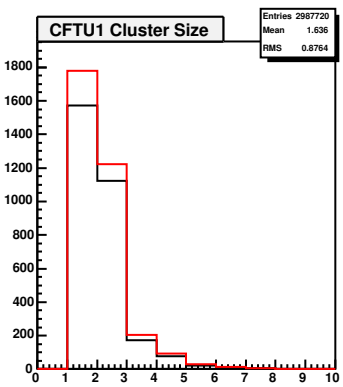


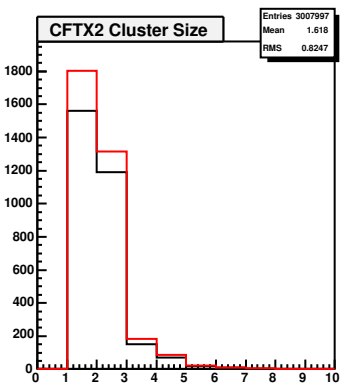


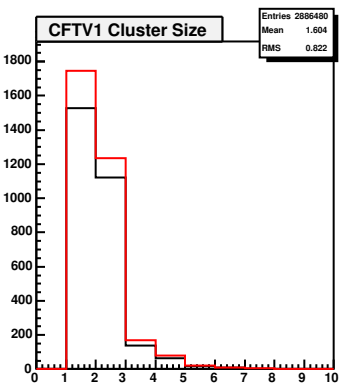


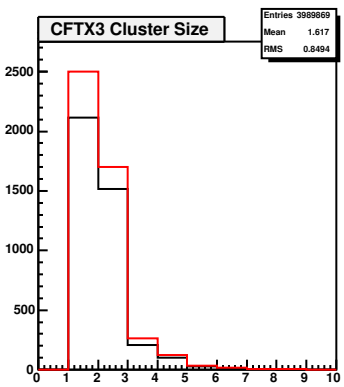
CFT NClusters (All Clusters)

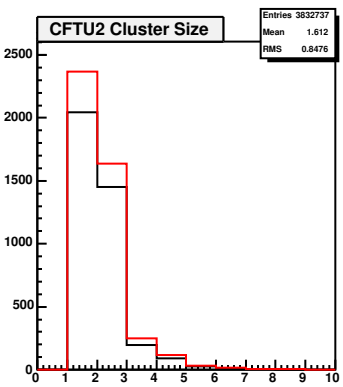


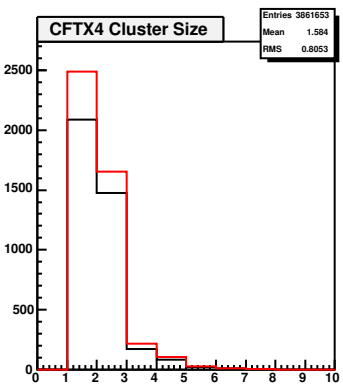


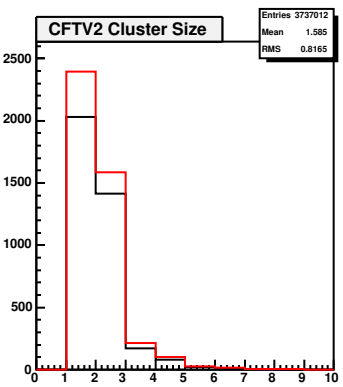


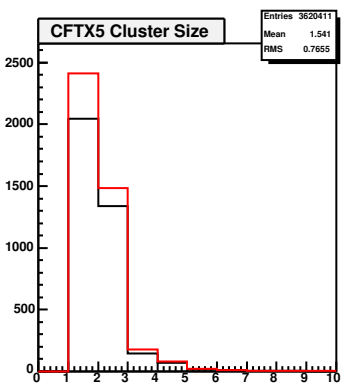


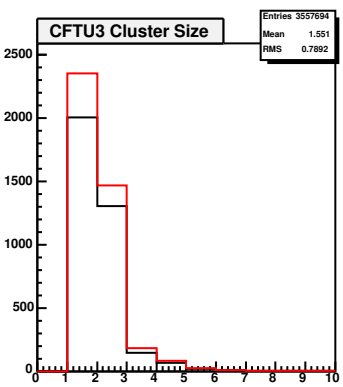


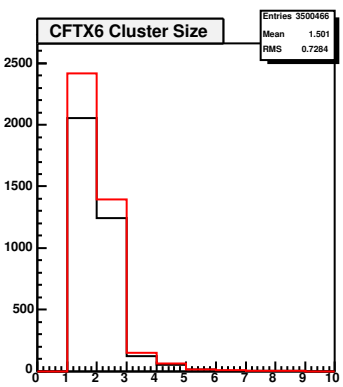


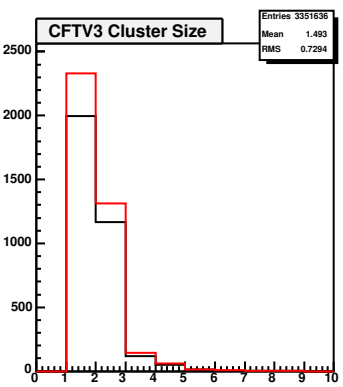


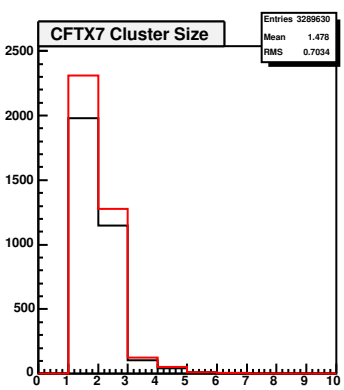


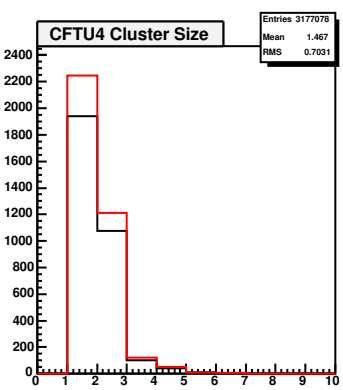


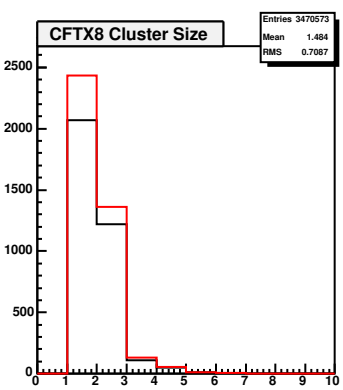


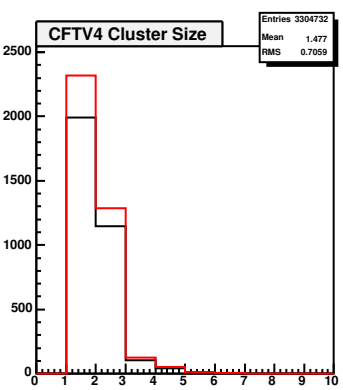




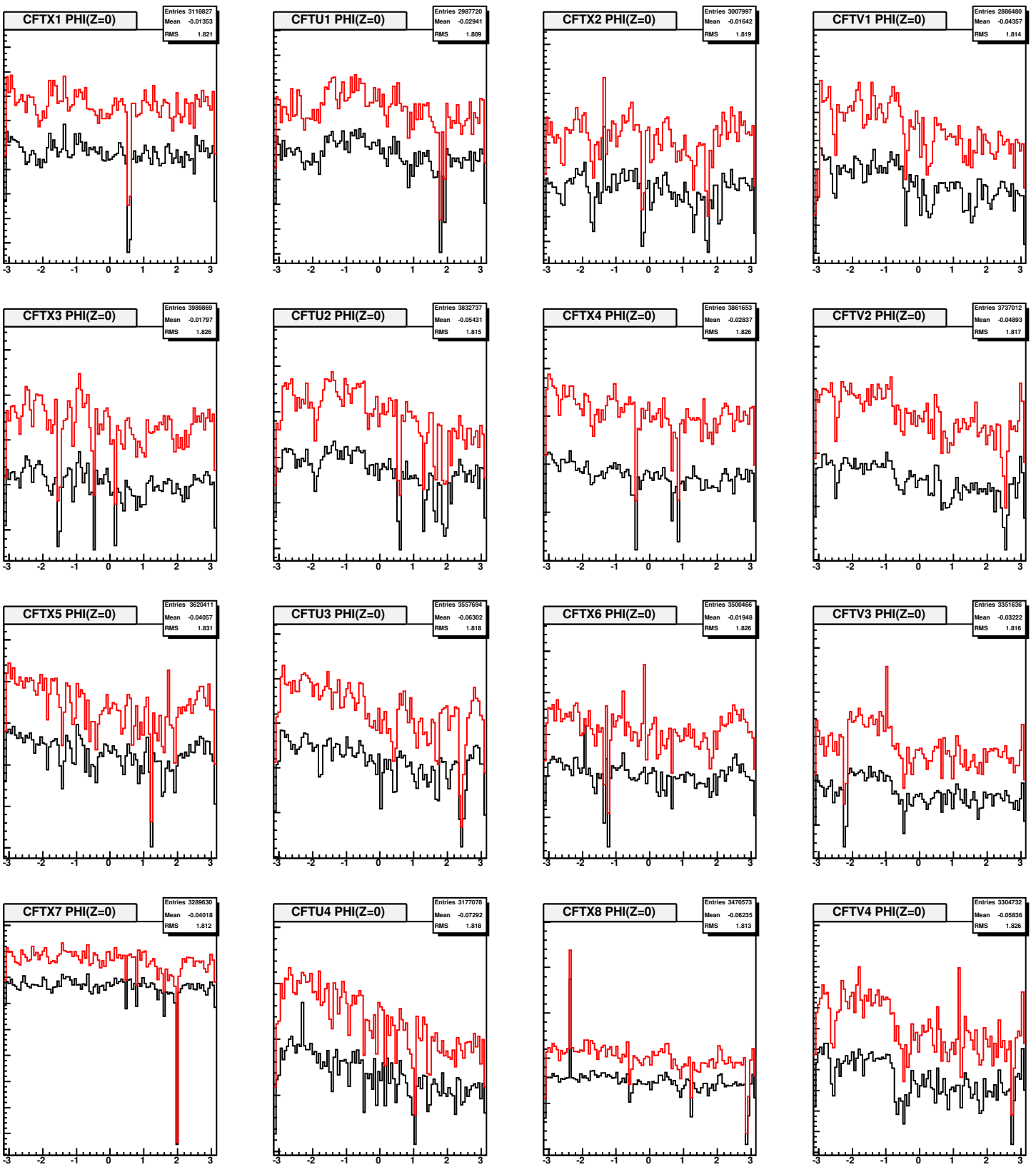




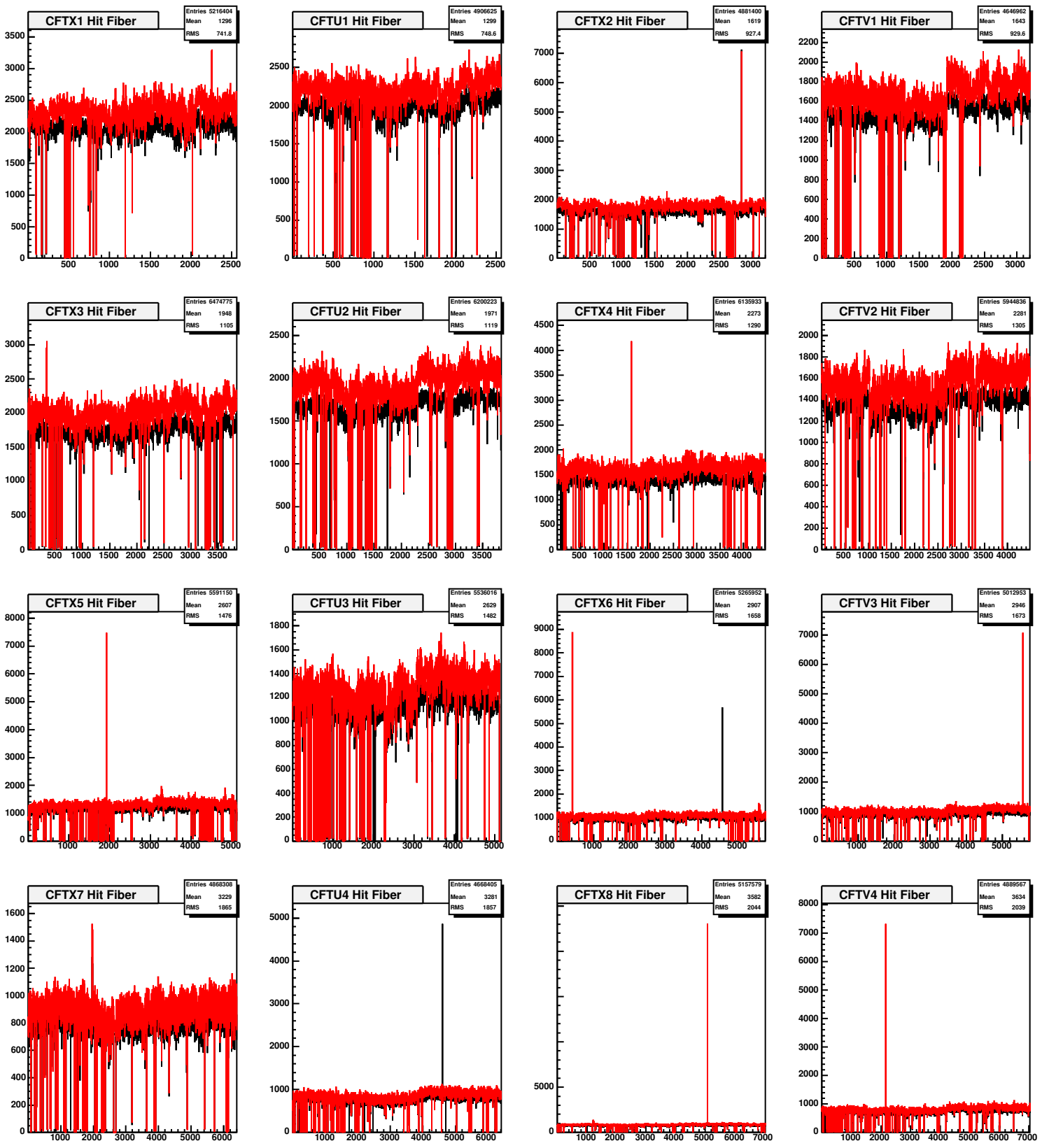




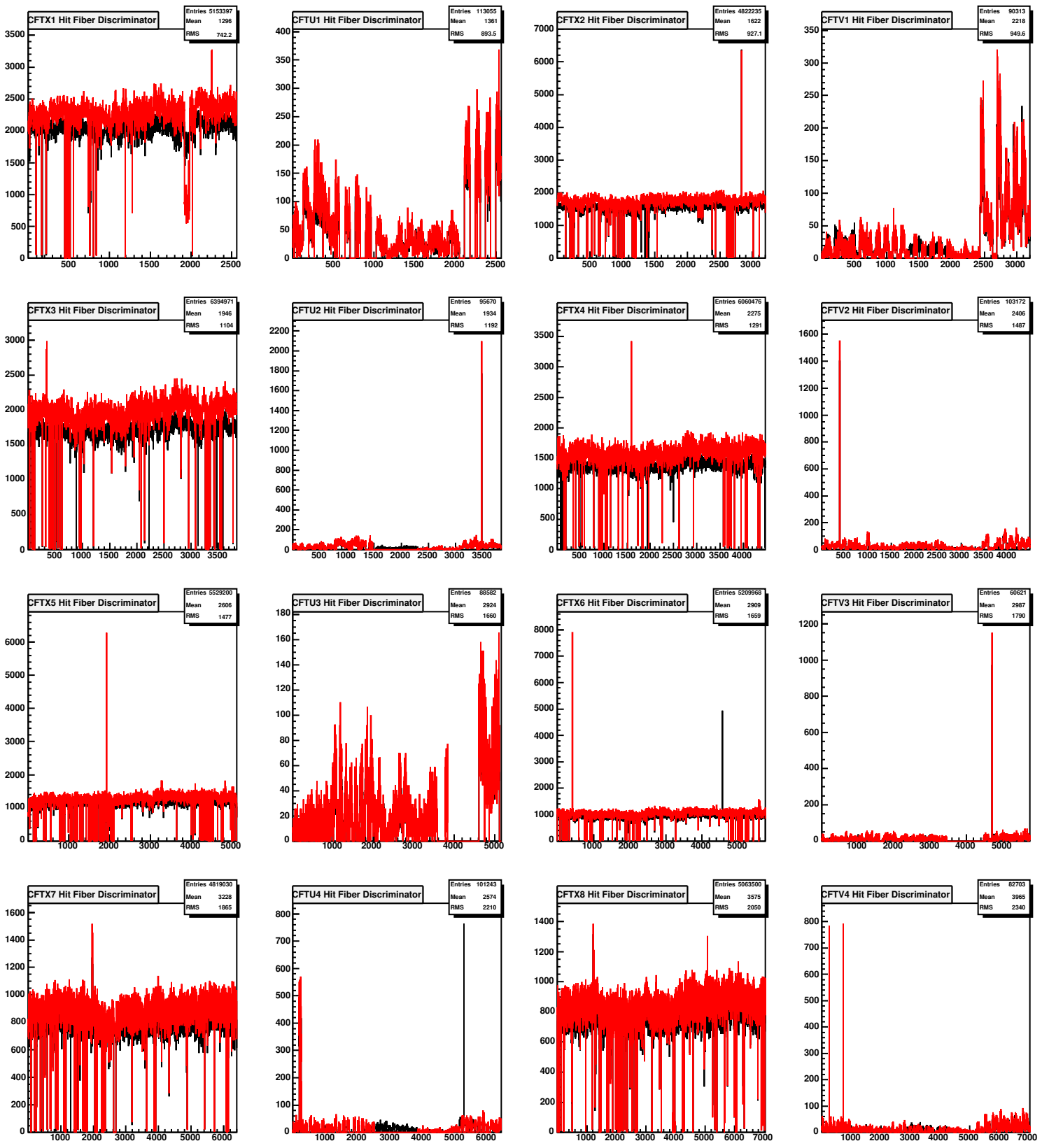
CFT Cluster Size (All Clusters)



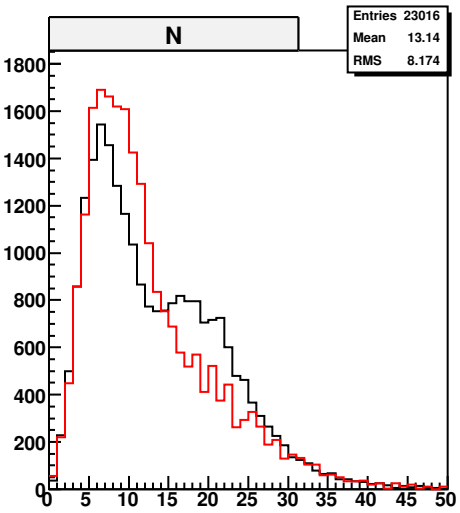
CFT PHI(Z=0) (All Clusters)

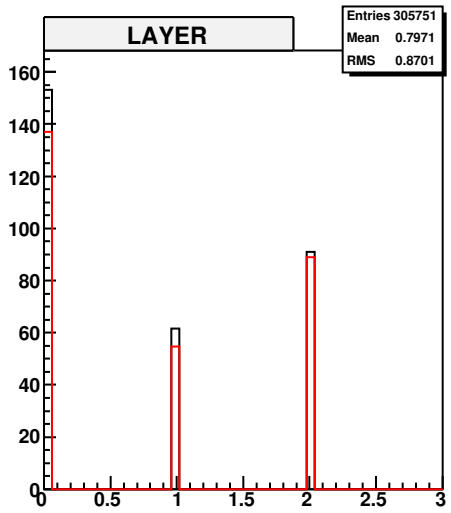


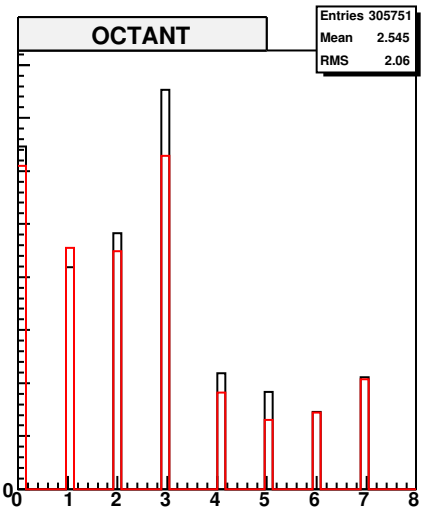
CFT Hit Fiber (All Clusters)

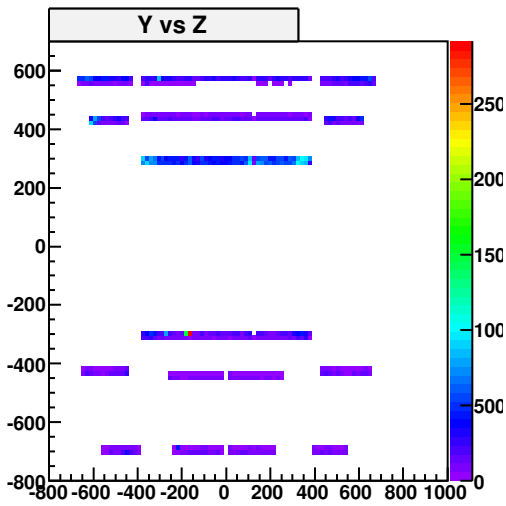


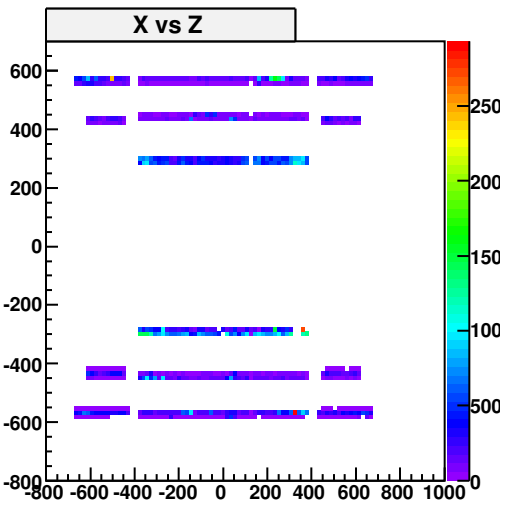
CFT Hit Fiber Discriminator (All Clusters)

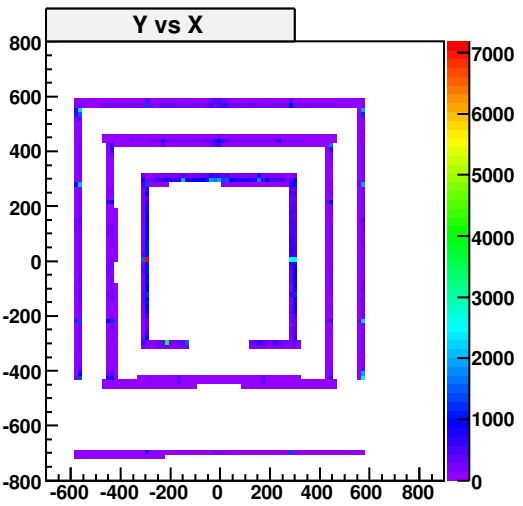

N
Entries 23016
Mean 13.14
RMS 8.174


LAYER
Entries 305751
Mean 0.7971
RMS 0.8701


OCTANT
Entries 305751
Mean 2.545
RMS 2.06


Y vs Z


X vs Z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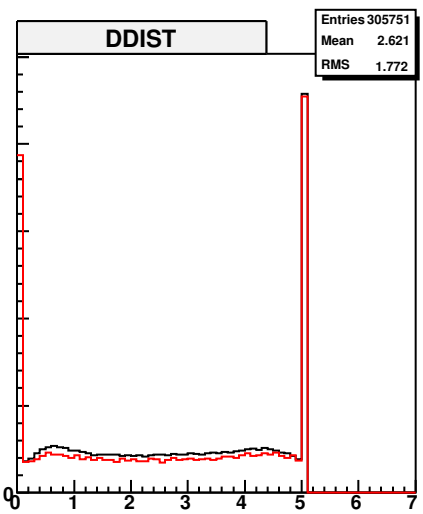
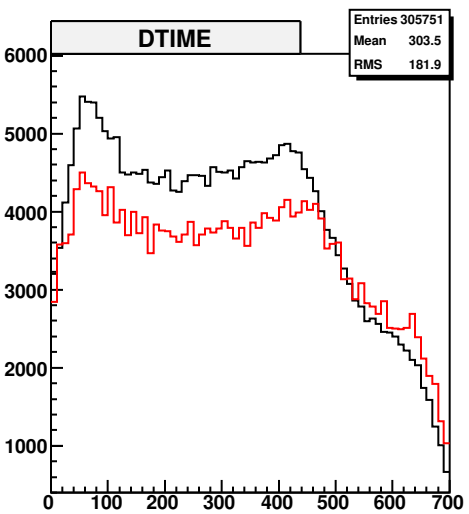
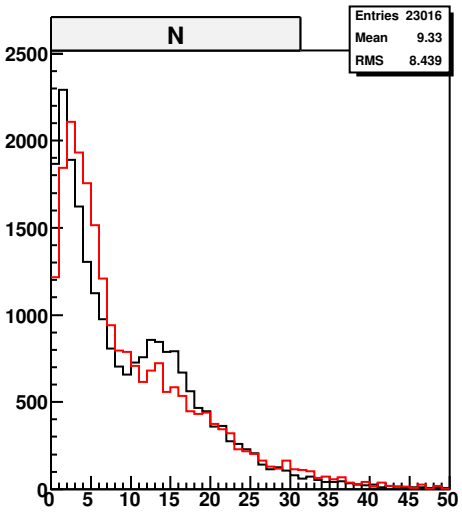
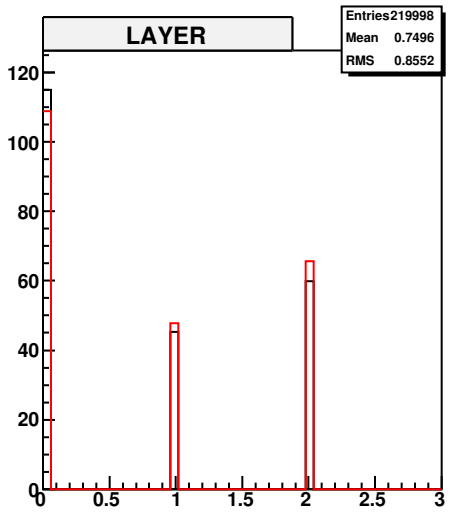
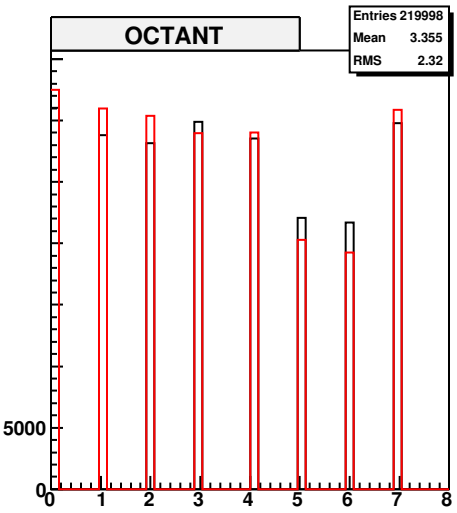

DDIST
Entries 305751
Mean 2.621
RMS 1.772

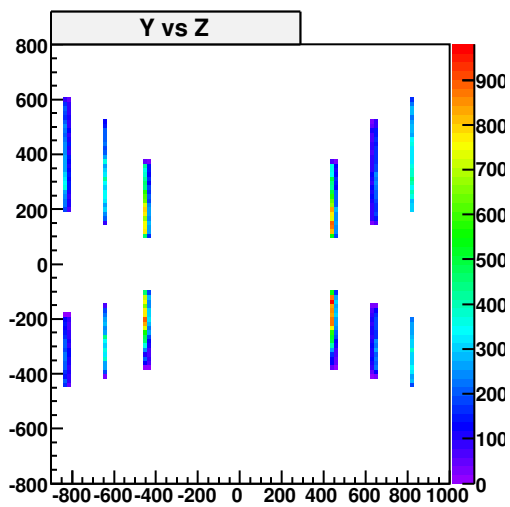

DTIME
Entries 305751
Mean 303.5
RMS 181.9

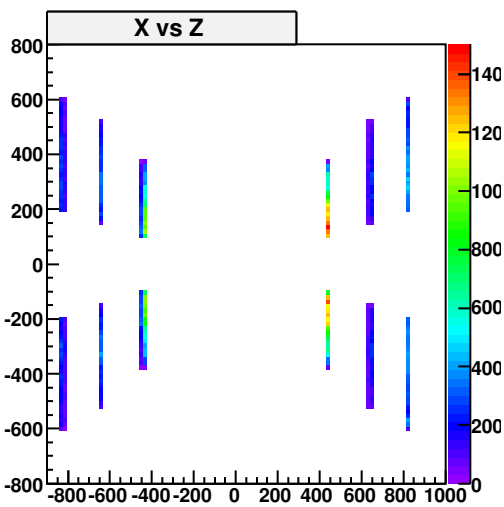
MuonPDT (All)

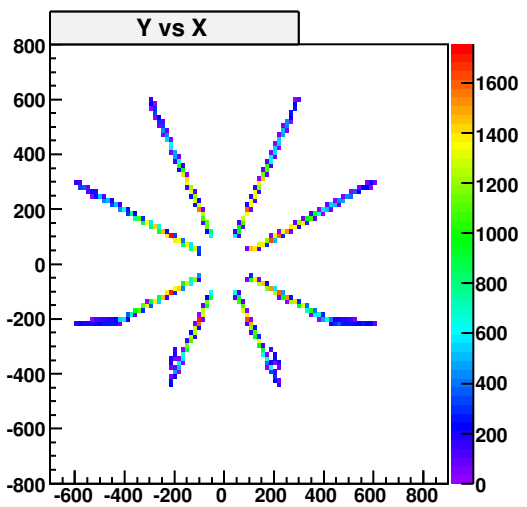

N
Entries 23016
Mean 9.33
RMS 8.439

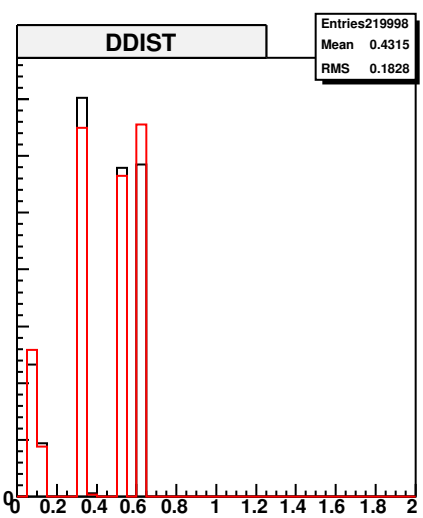

LAYER
Entries 219998
Mean 0.7496
RMS 0.8552

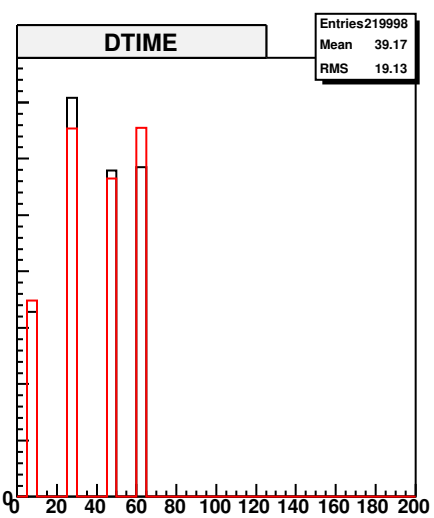

OCTANT
Entries 219998
Mean 3.355
RMS 2.32


Y vs Z

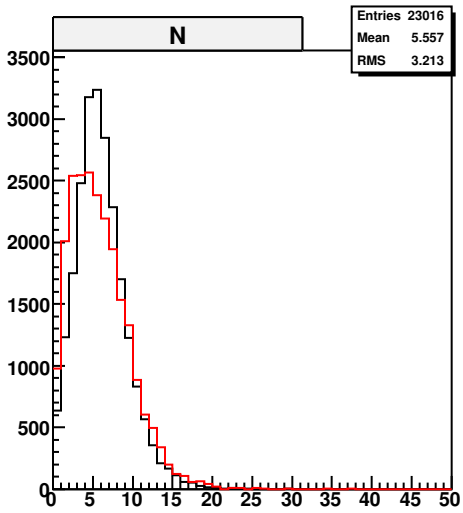

X vs Z

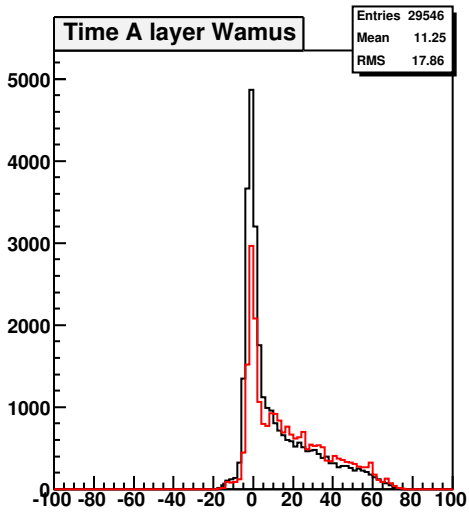

Y vs X

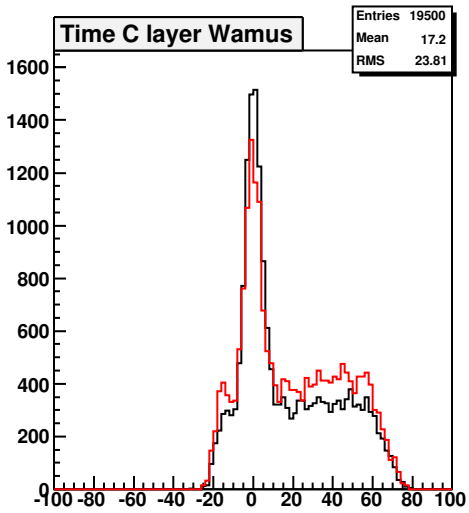

DDIST
Entries 219998
Mean 0.4315
RMS 0.1828

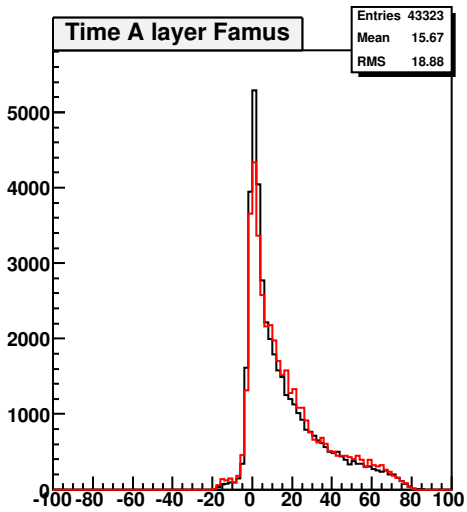

DTIME
Entries 219998
Mean 39.17
RMS 19.13

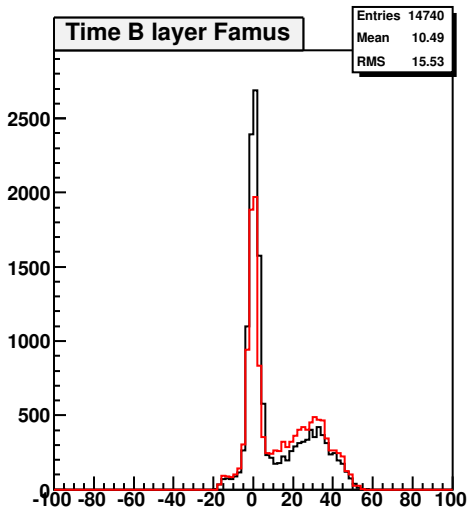
MuonMDT (All)

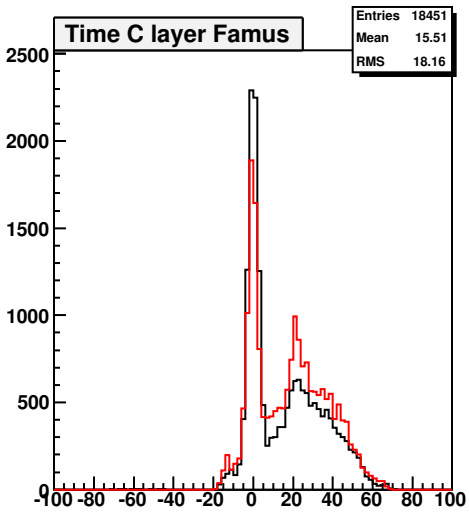

N
Entries 23016
Mean 5.557
RMS 3.213

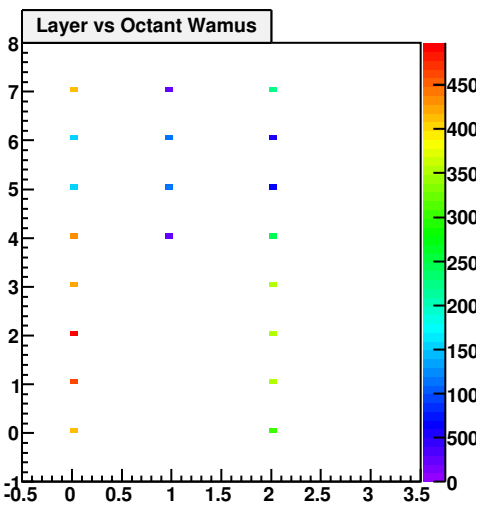

Time A layer Wamus
Entries 29546
Mean 11.25
RMS 17.86

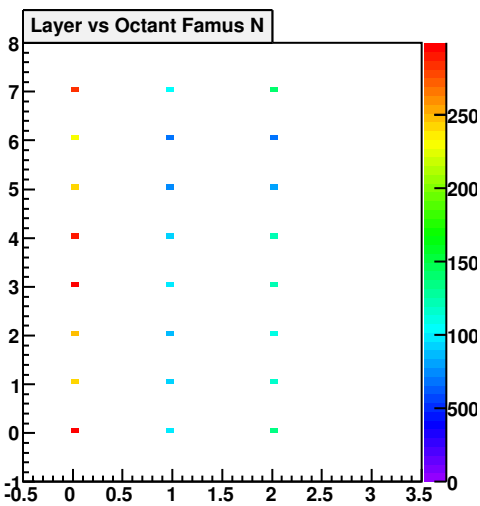

Time C layer Wamus
Entries 19500
Mean 17.2
RMS 23.81

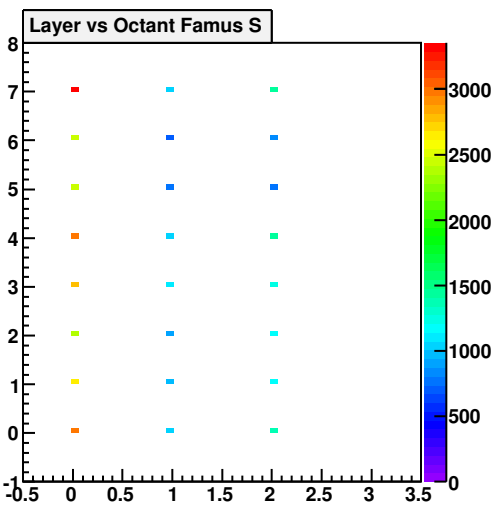

Time A layer Famus
Entries 43323
Mean 15.67
RMS 18.88


Time B layer Famus
Entries 14740
Mean 10.49
RMS 15.53

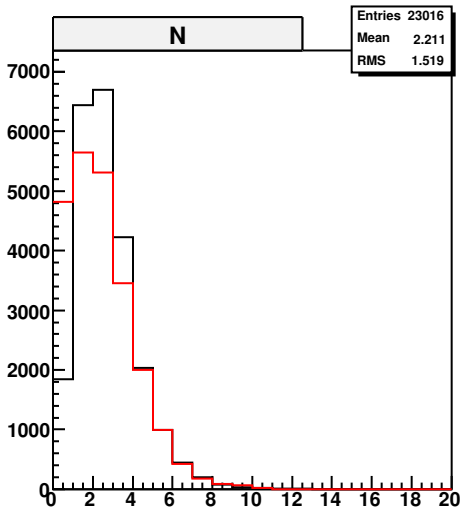

Time C layer Famus
Entries 18451
Mean 15.51
RMS 18.16

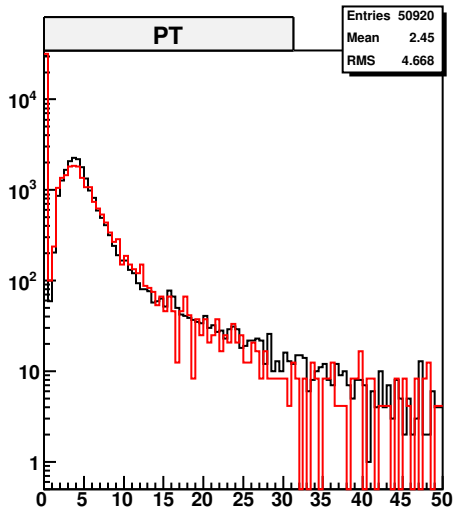

Layer vs Octant Wamus

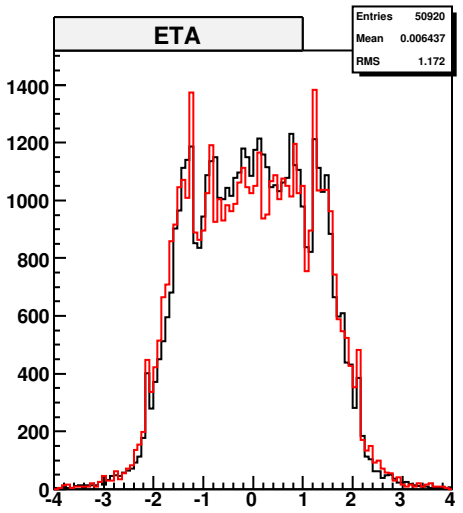

Layer vs Octant Famus N

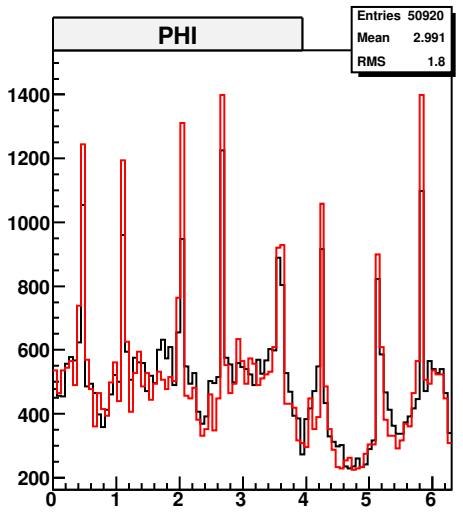

Layer vs Octant Famus S

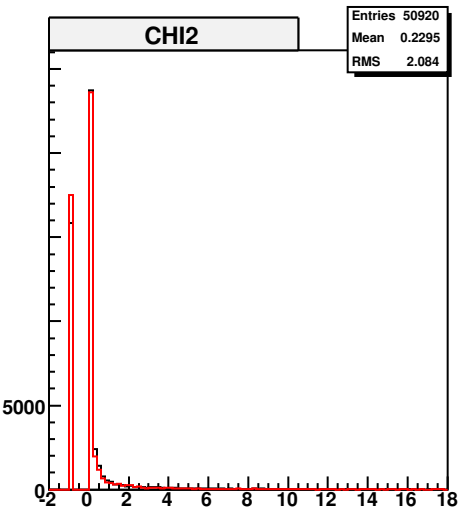
MuonMSC (All)

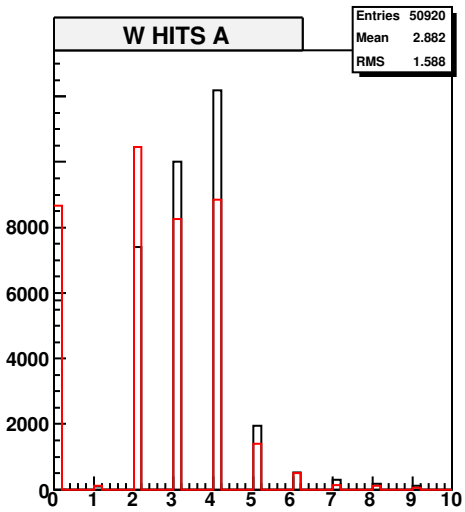


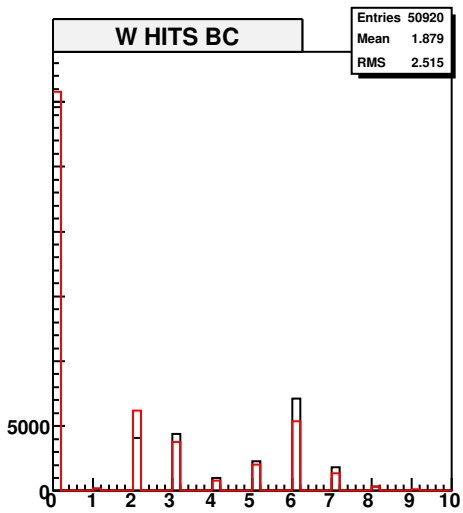


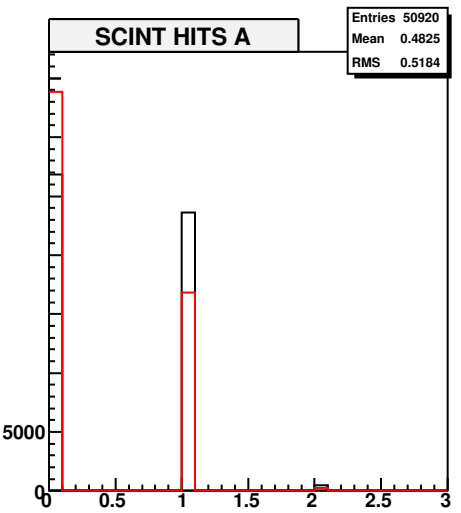


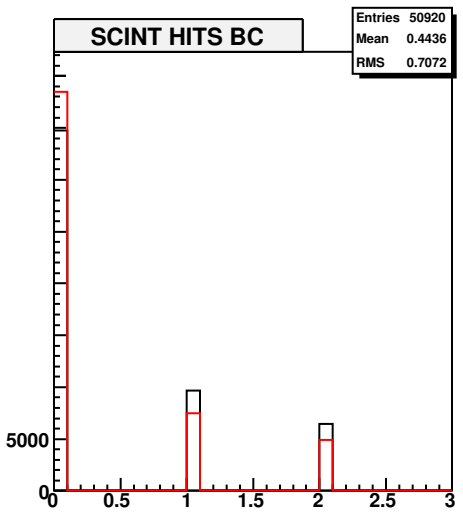




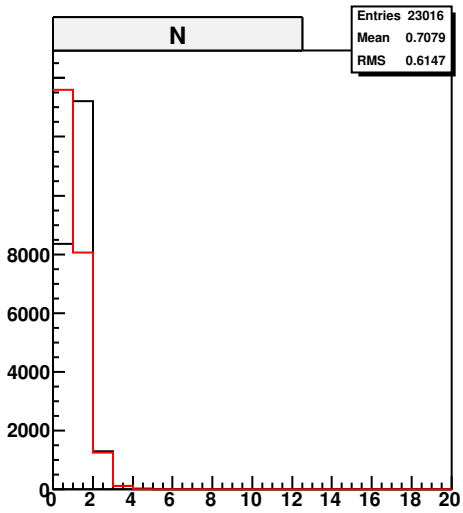


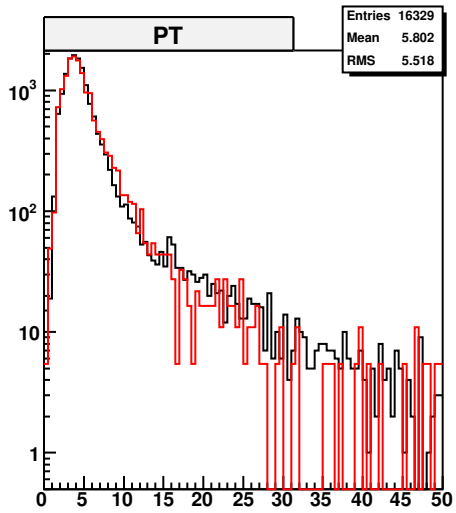


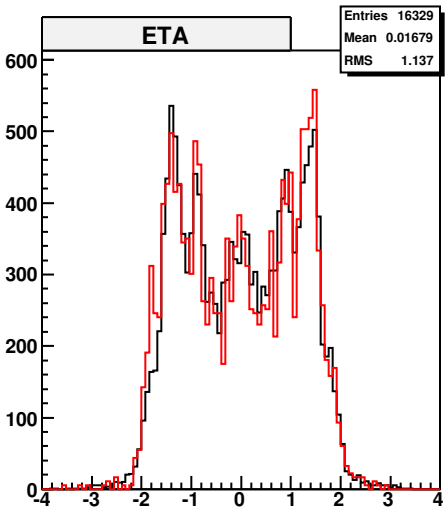


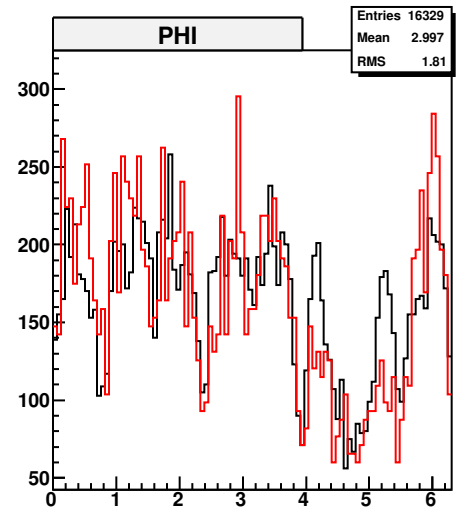


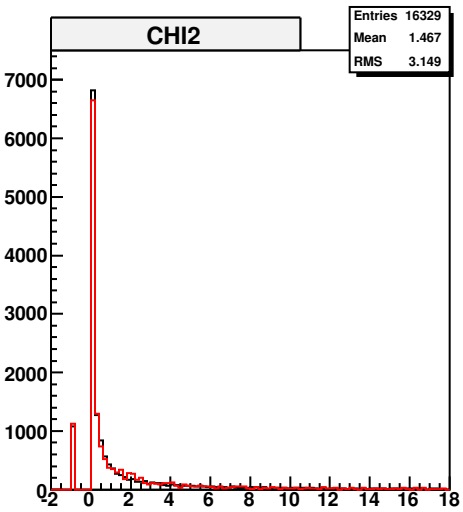
Muon Local Tracks (All)

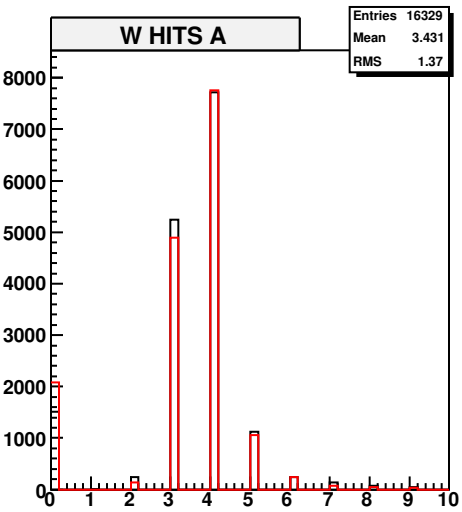


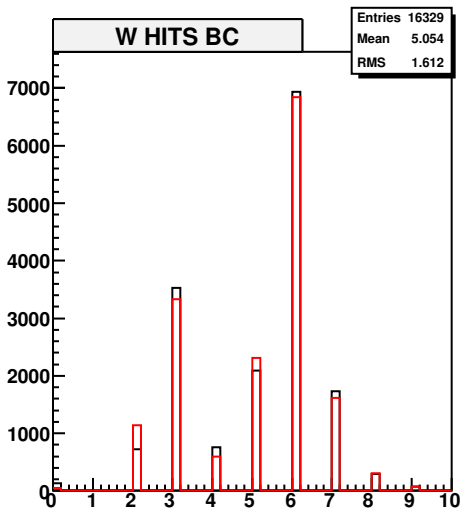


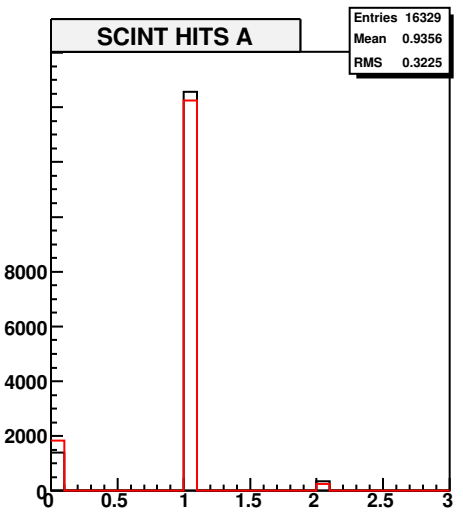


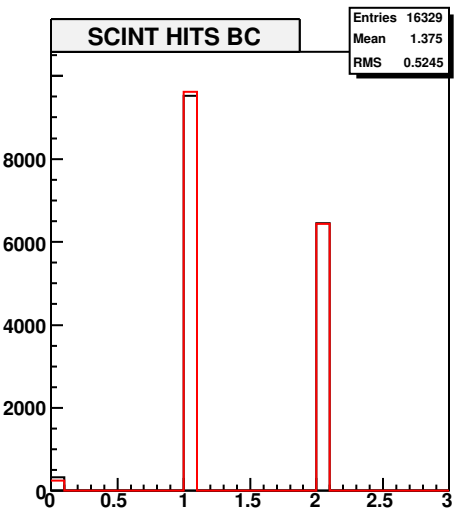




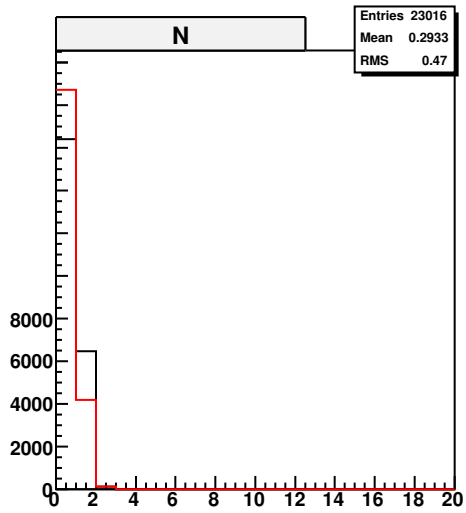


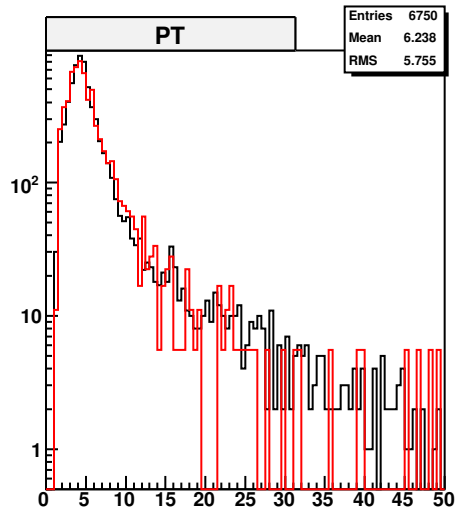


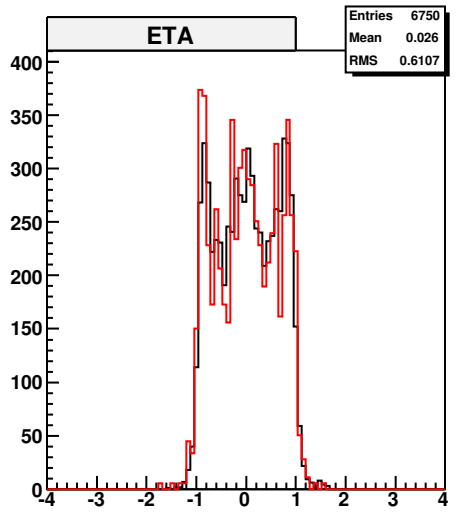


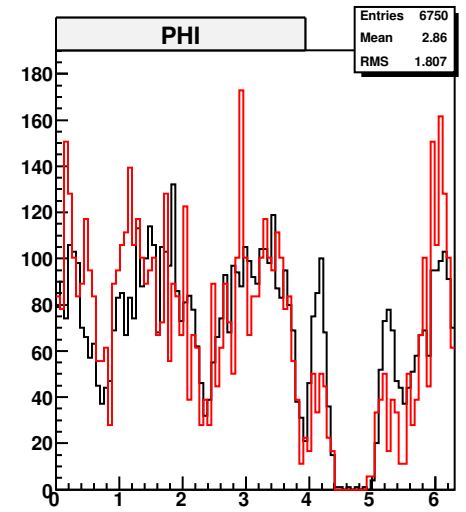


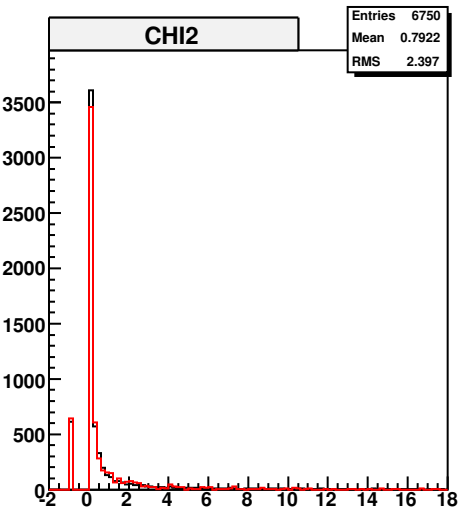
Muon Local Tracks (LooseWamus)

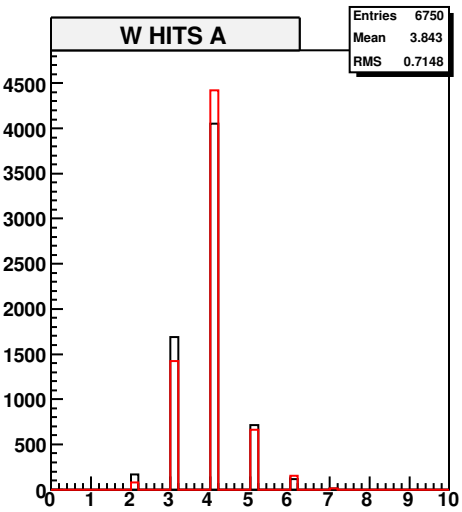


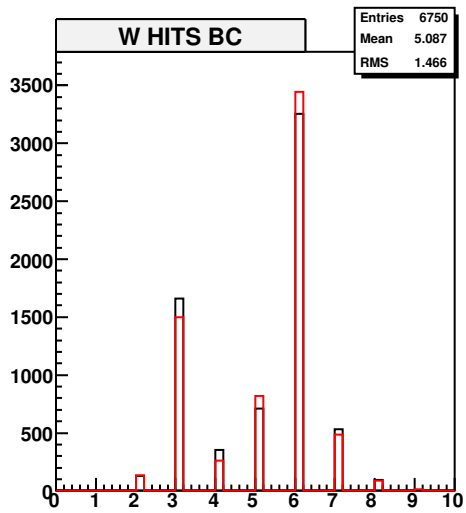


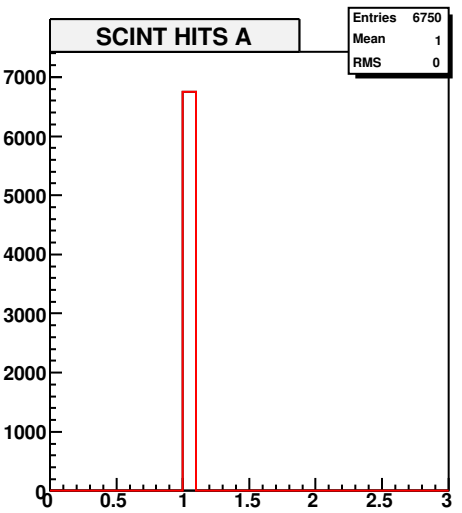


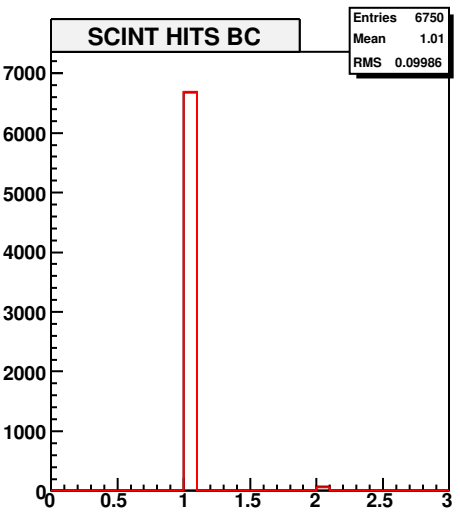




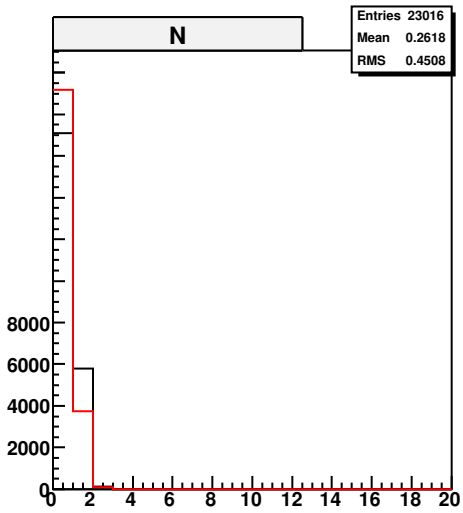


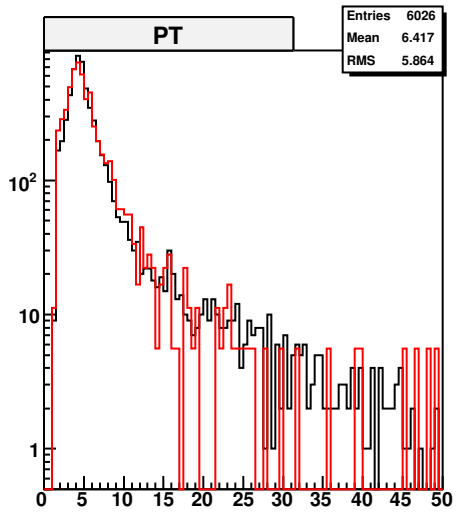


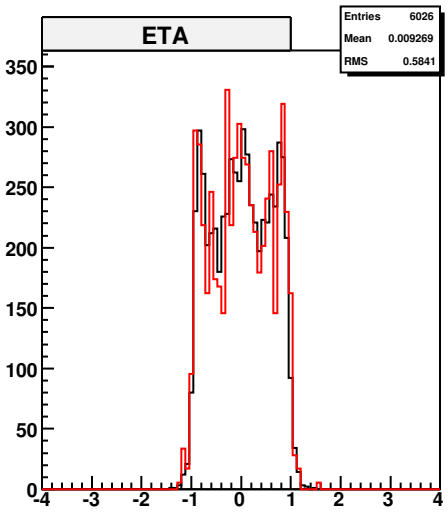


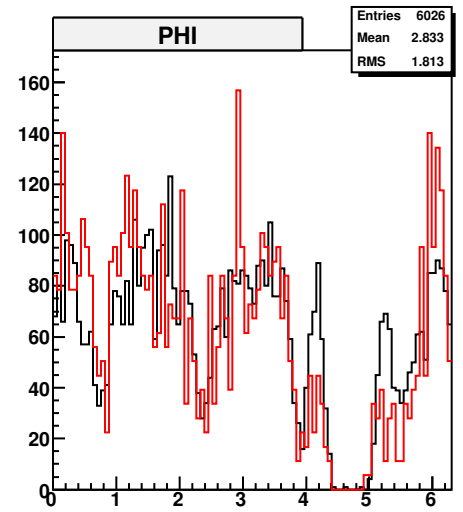


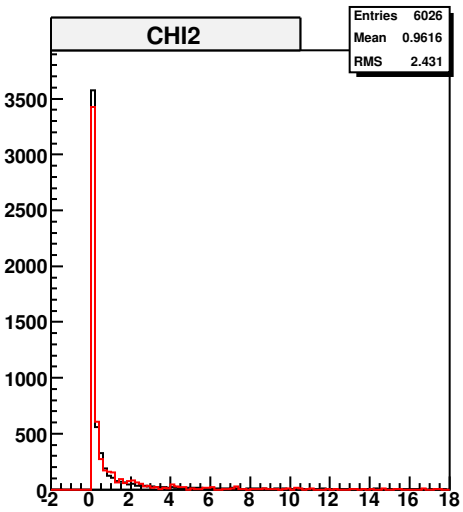
Muon Local Tracks (MediumWamus)

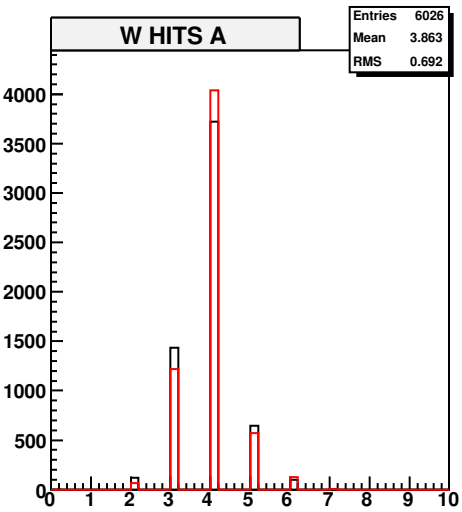


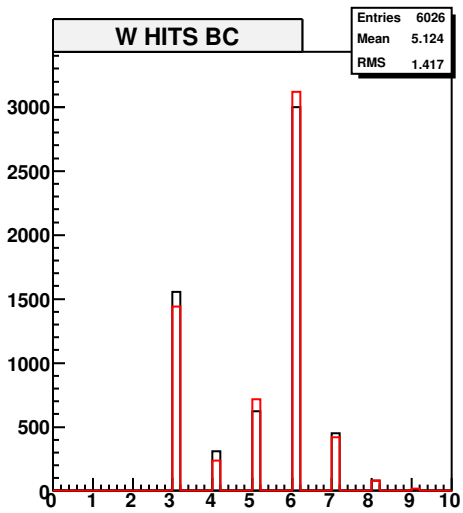


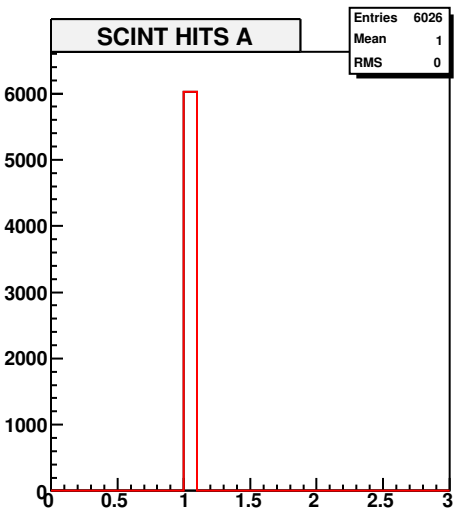


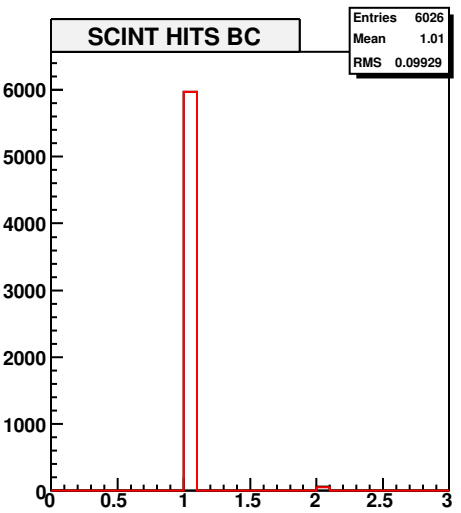




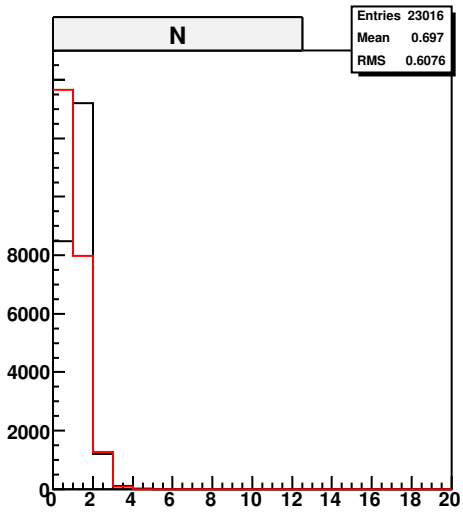


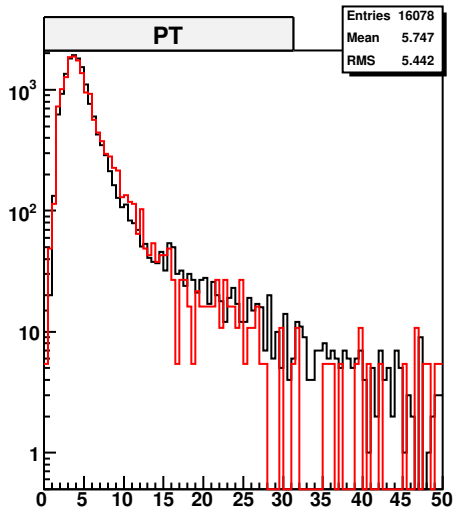


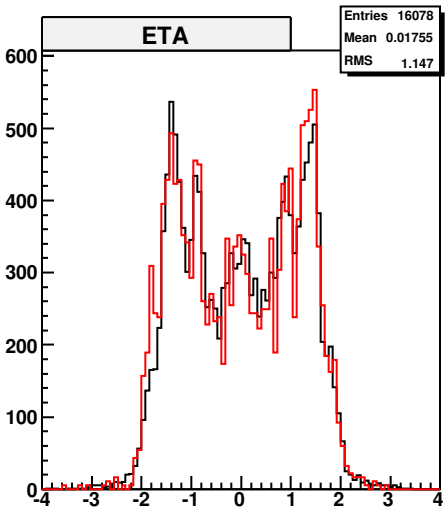


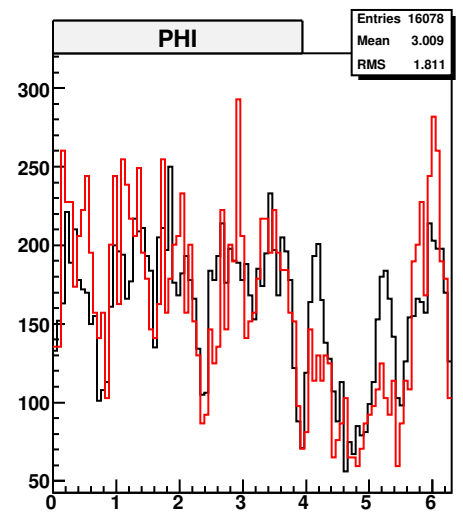


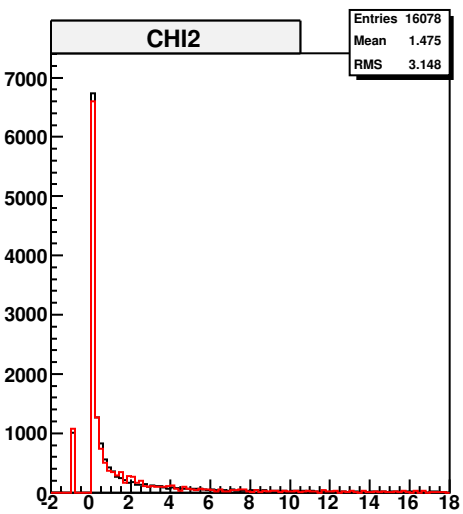
Muon Local Tracks (TightWamus)

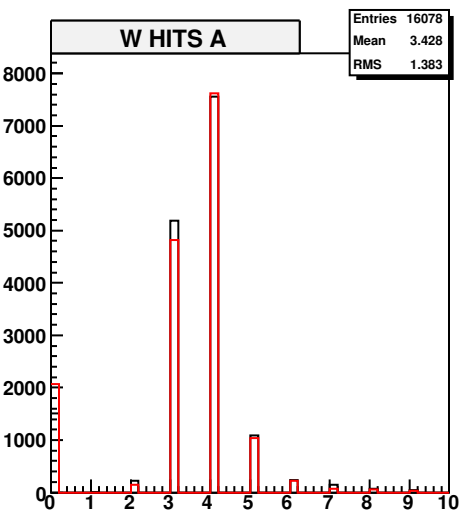


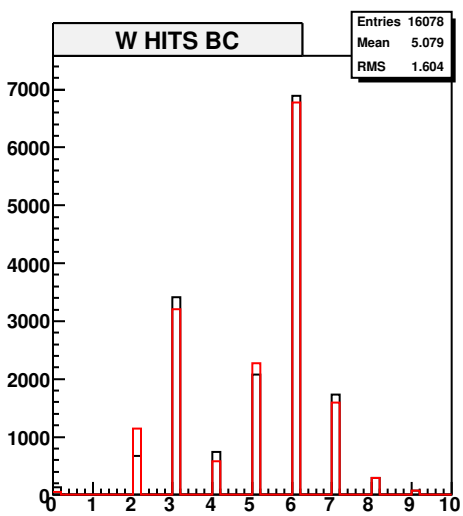


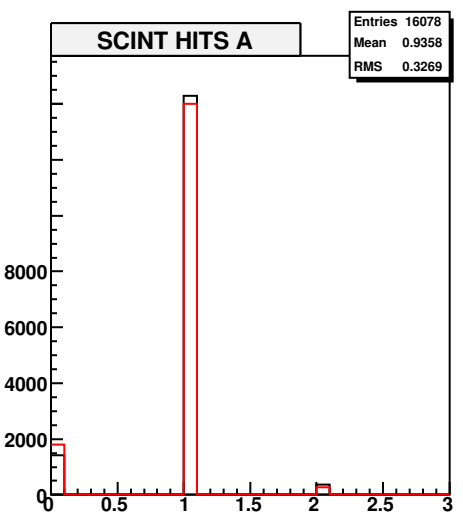


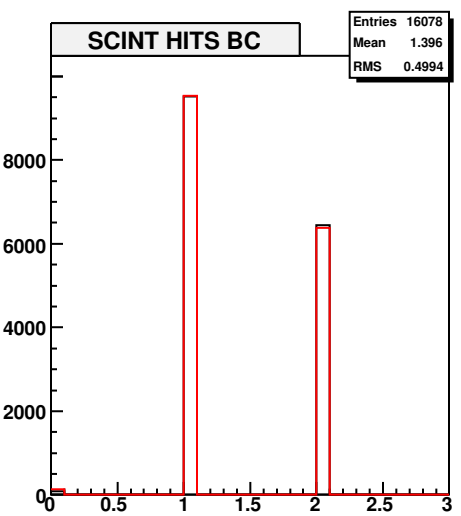




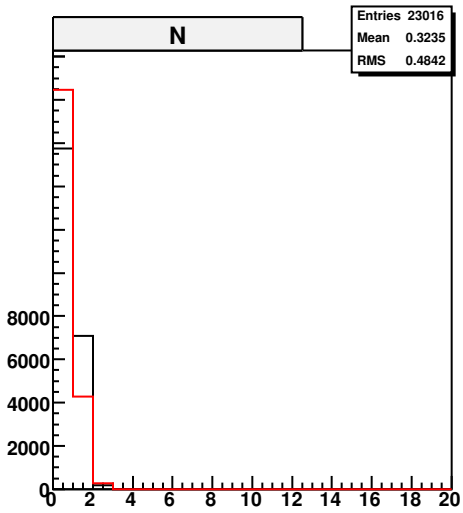


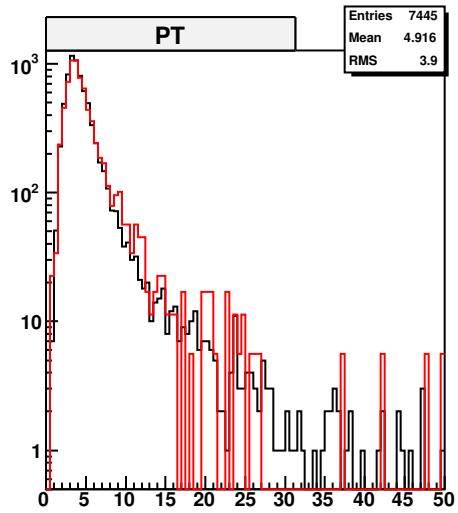


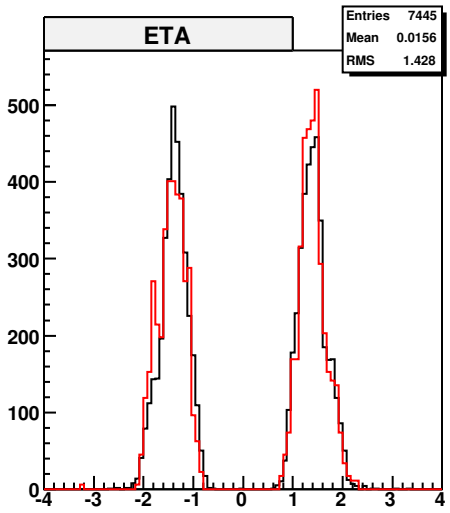


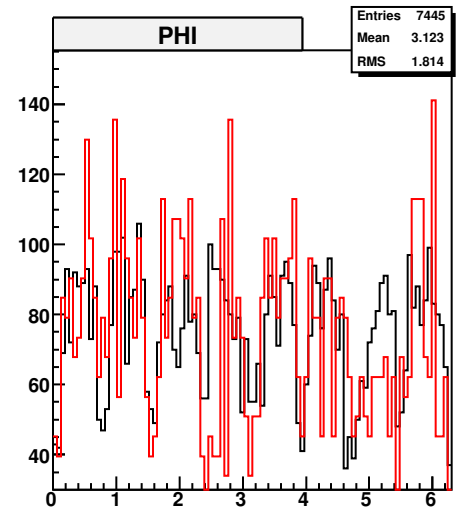


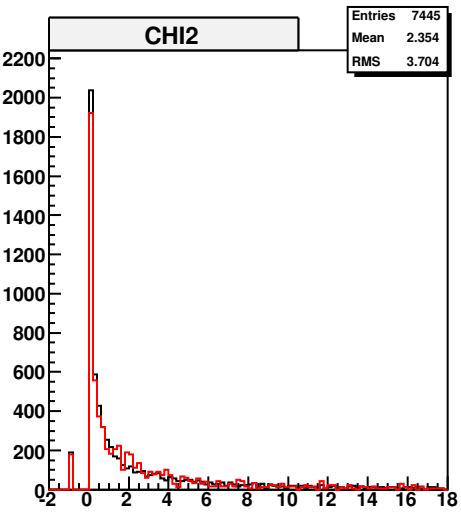
Muon Local Tracks (LooseFamus)

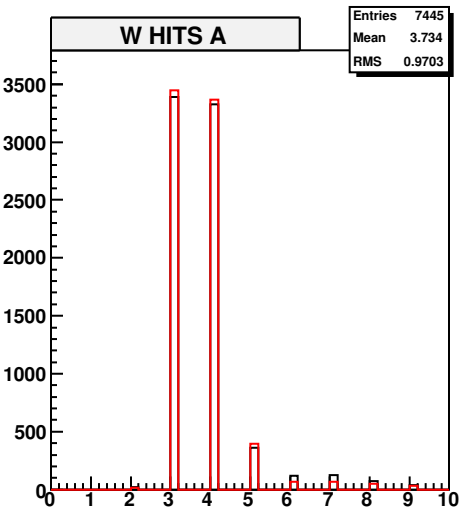


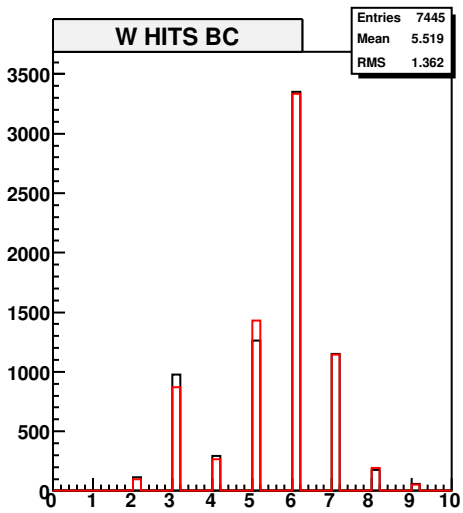


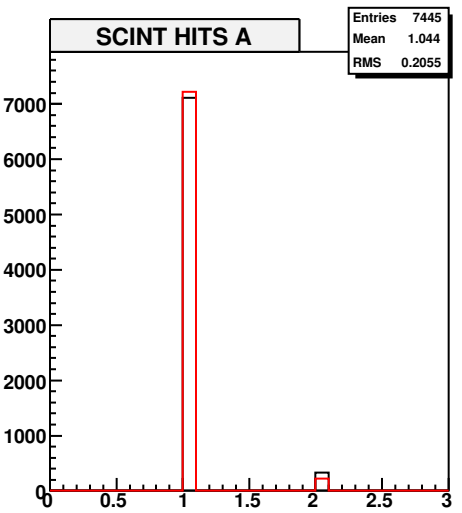


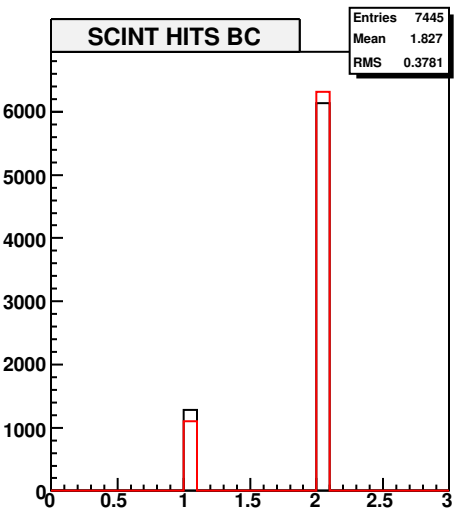




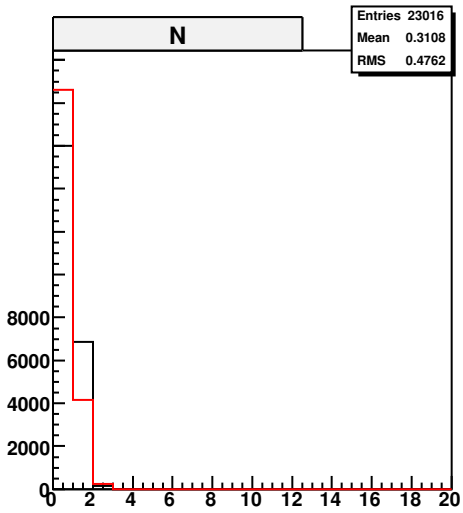


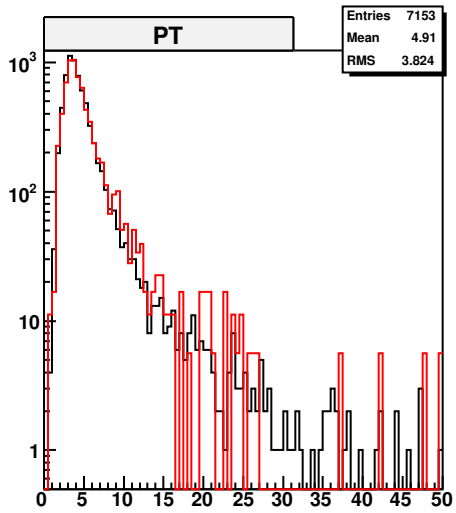


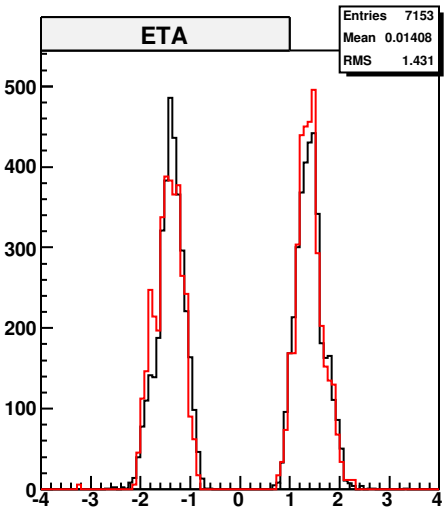


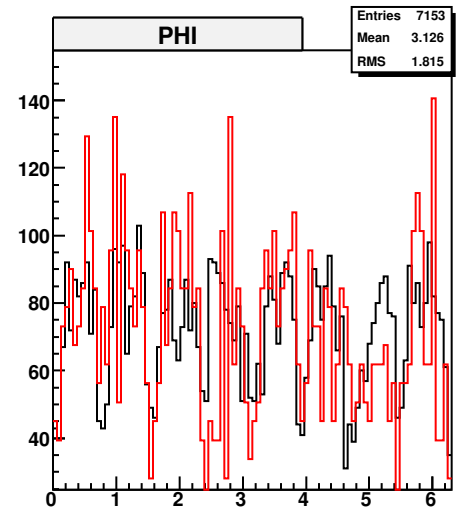


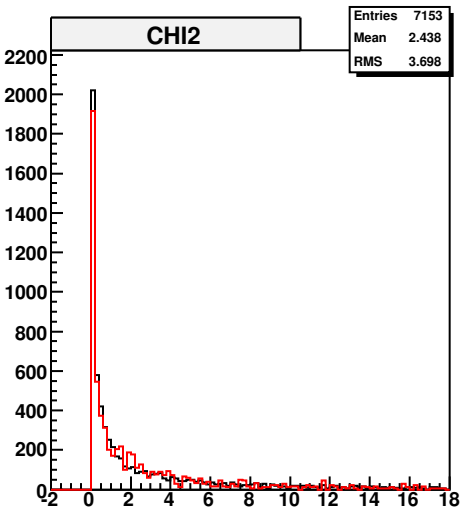
Muon Local Tracks (MediumFamus)

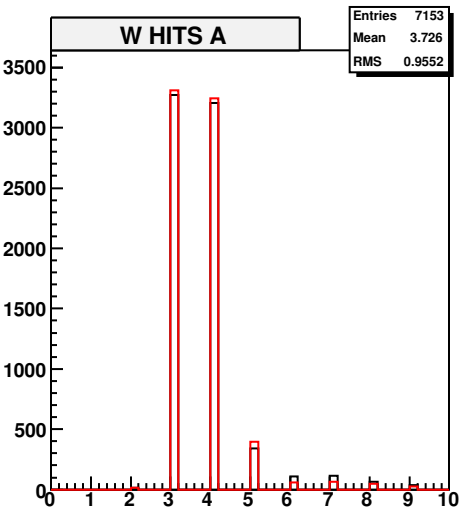


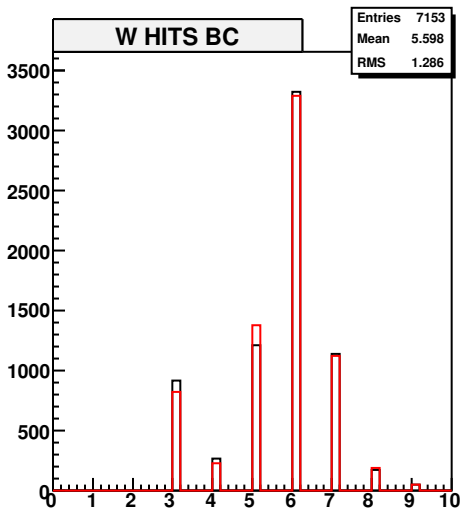


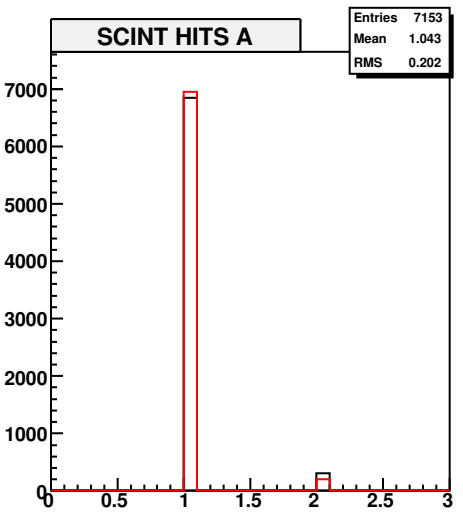


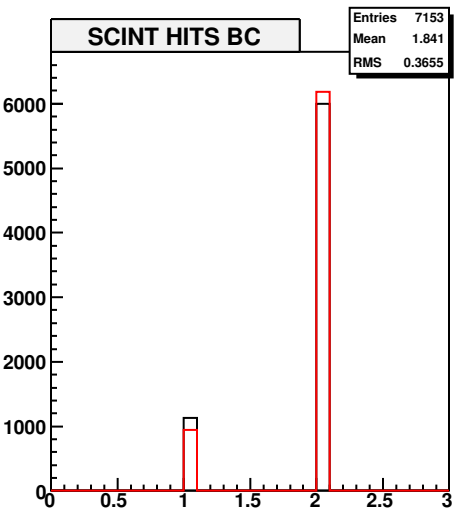




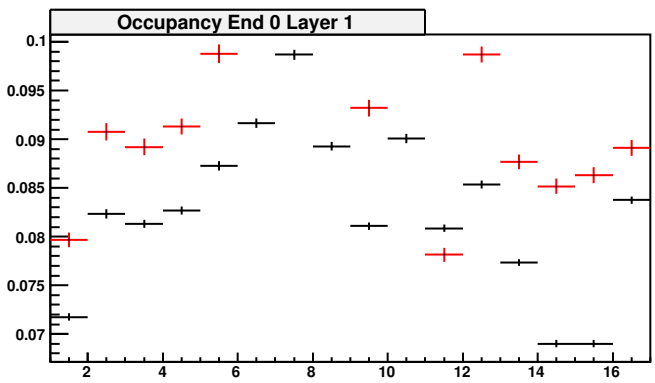


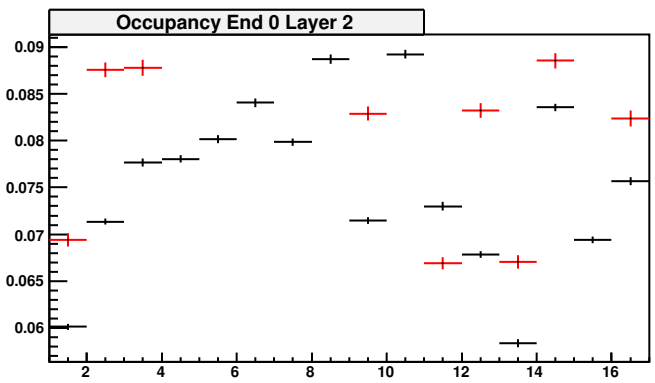


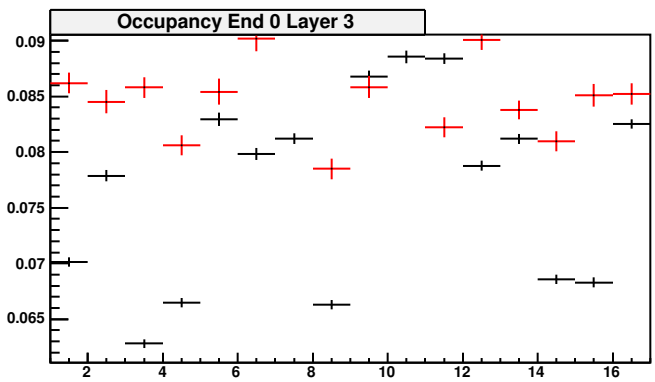


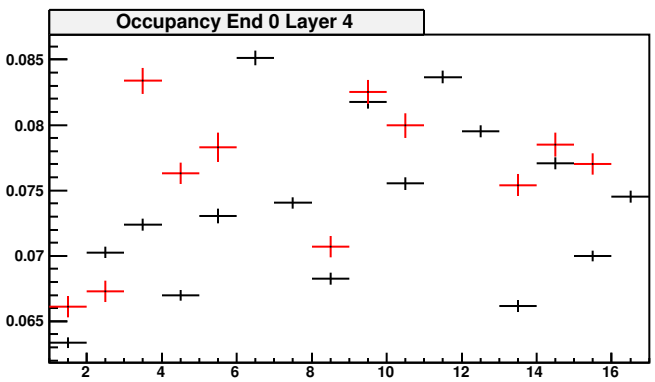


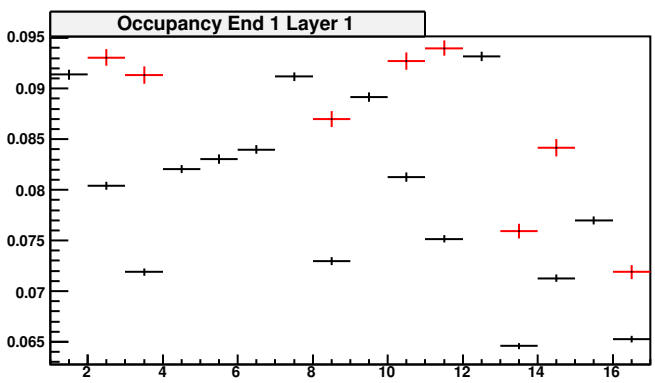
Muon Local Tracks (TightFamus)

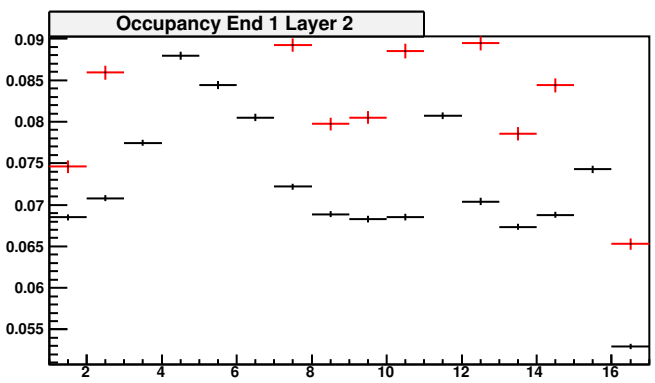


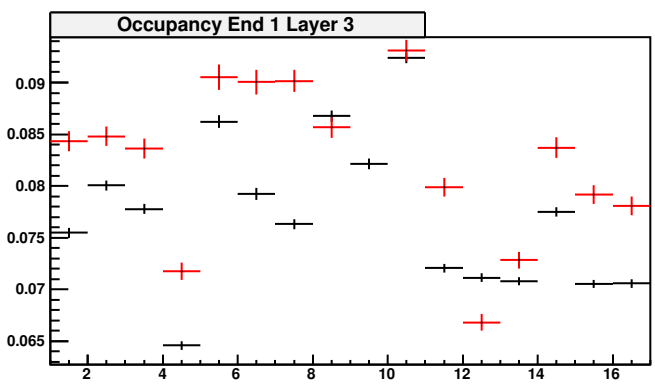


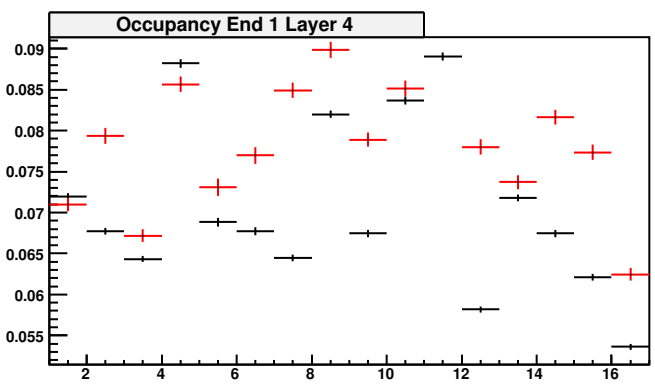




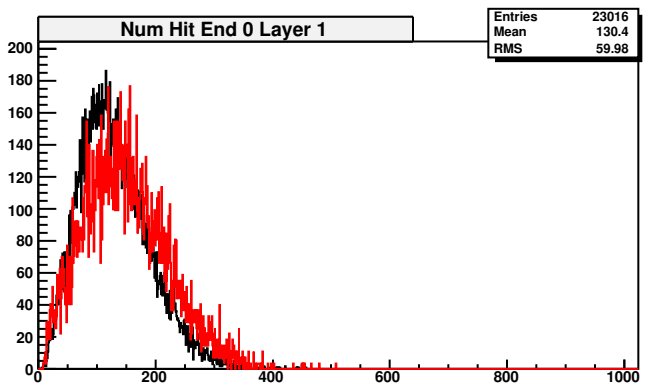


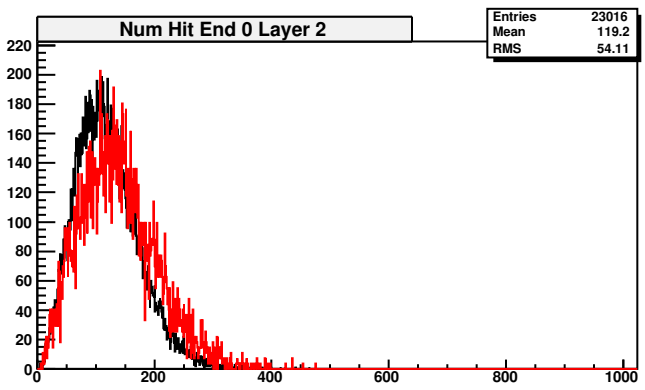


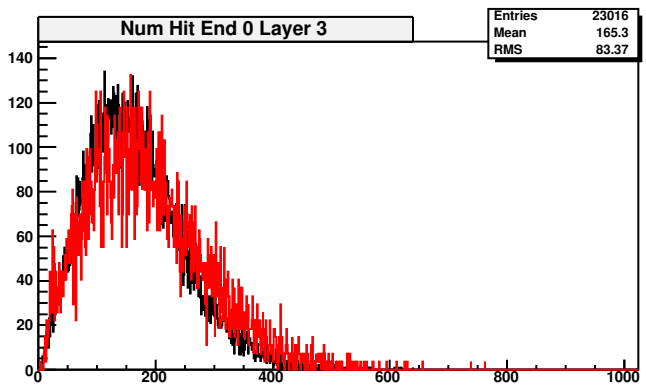


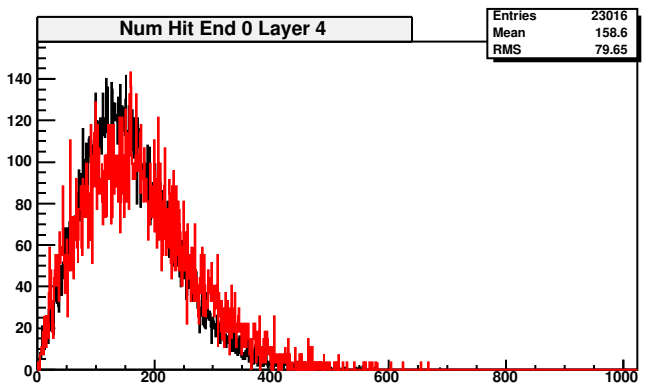


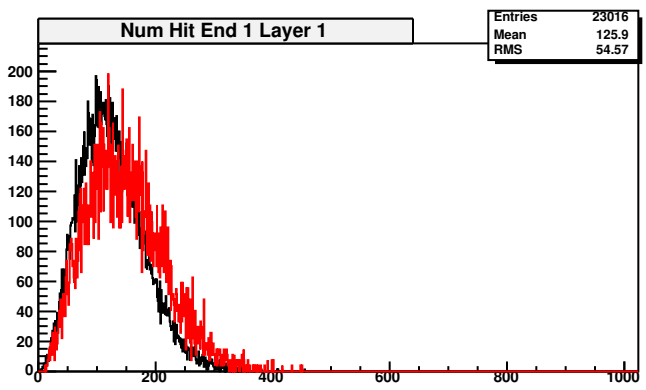
FPS Hit Occupancy (All)

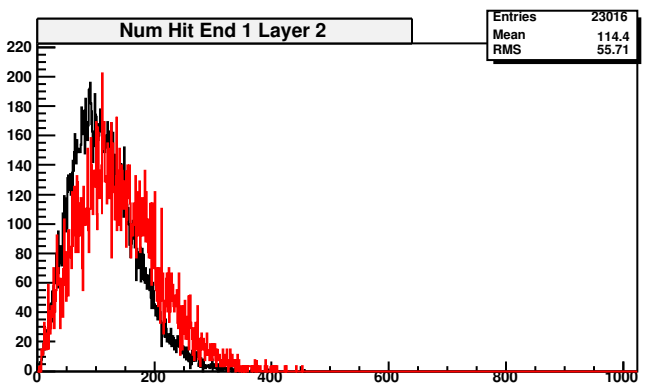


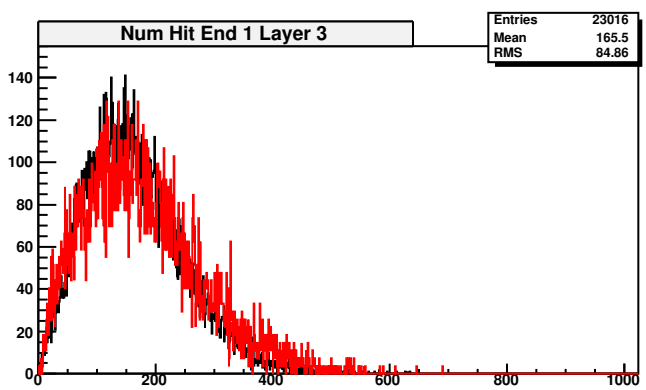


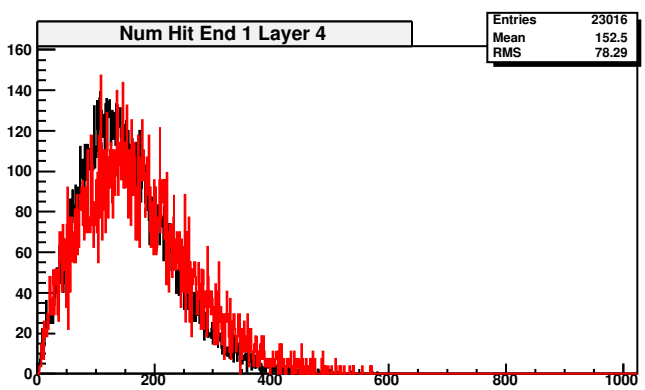




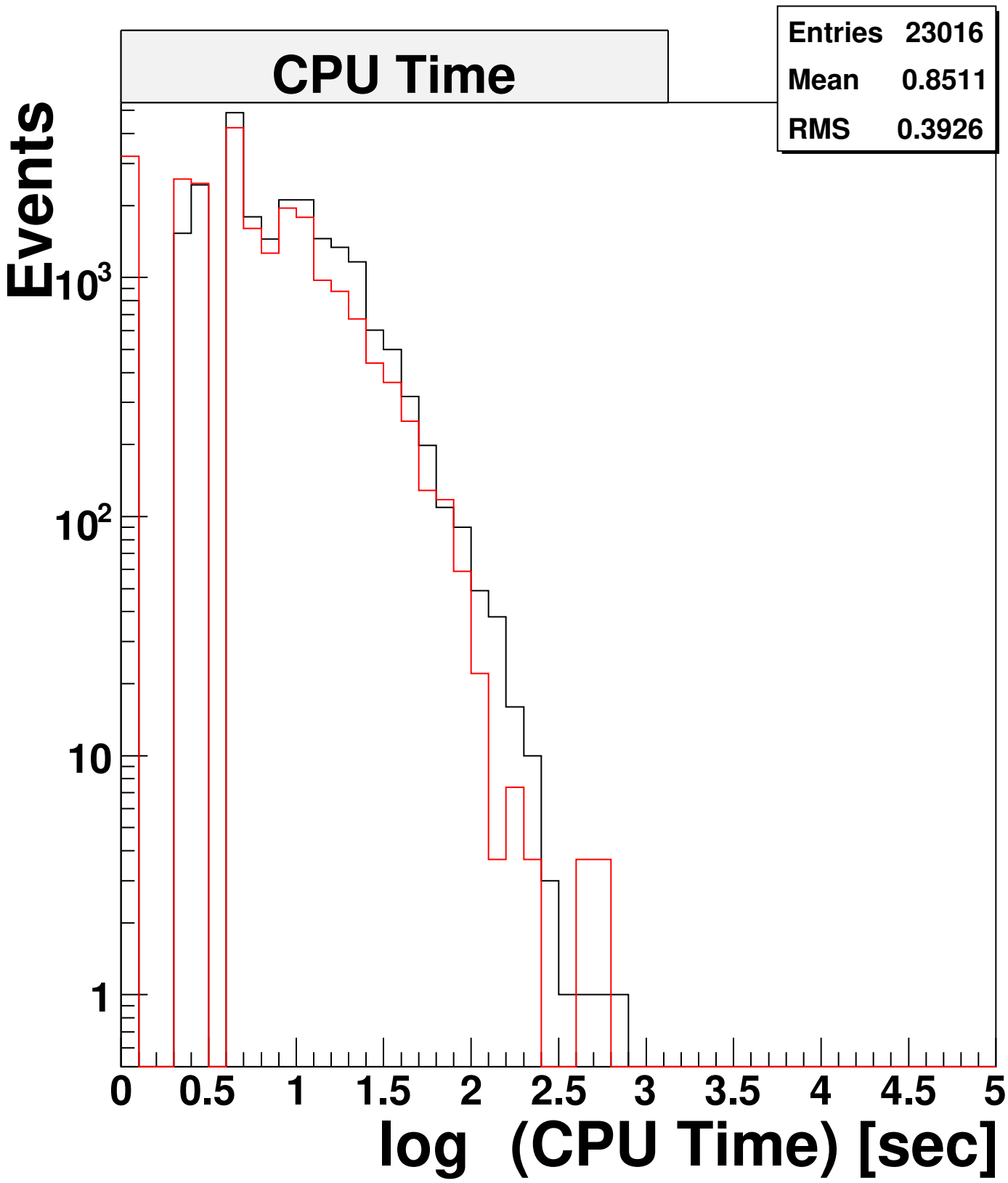








FPS Number of Hits (All)



RECO Performance (Timing)