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p200100b4-v14tmb_25kevt.root

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Page 3: Tracks Hits (All)
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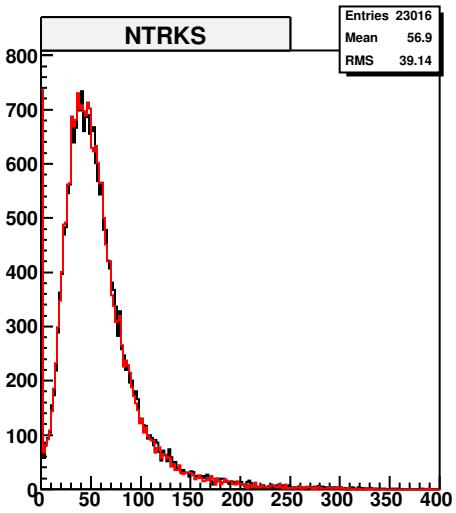
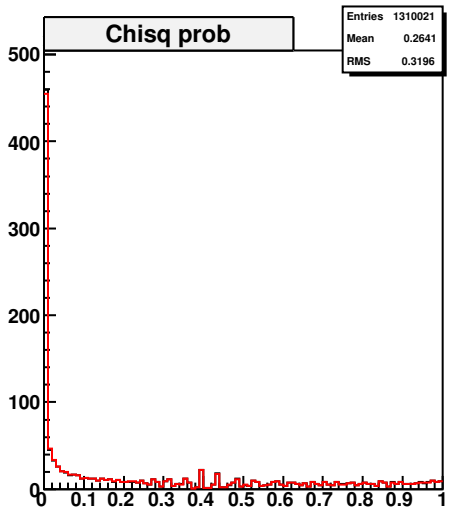
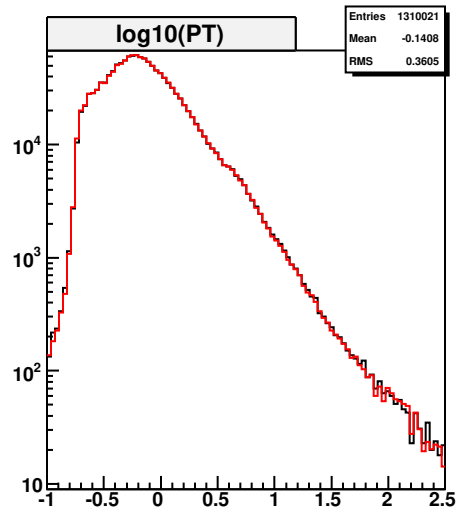
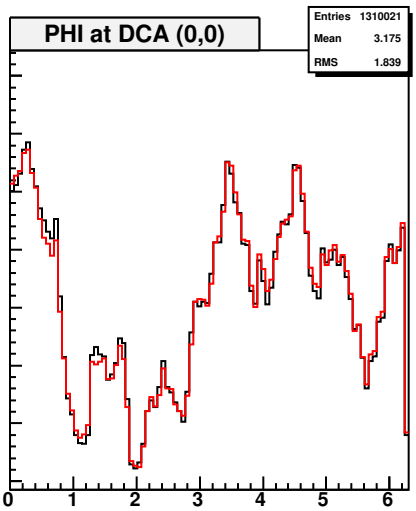
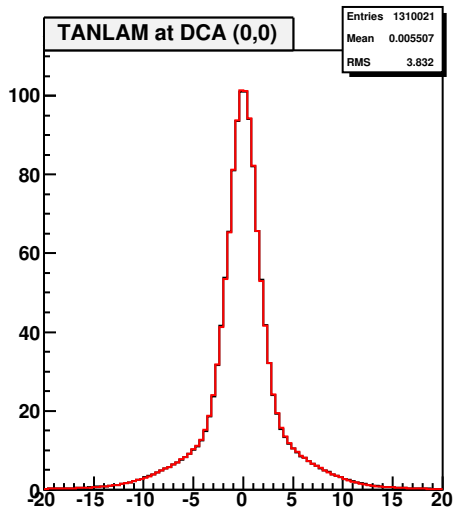
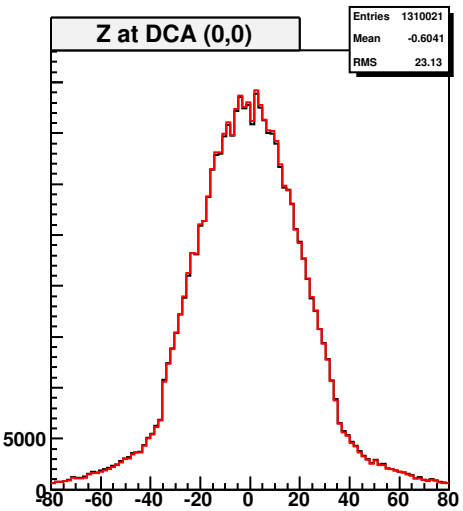

NTRKS
Entries 23016
Mean 56.9
RMS 39.14

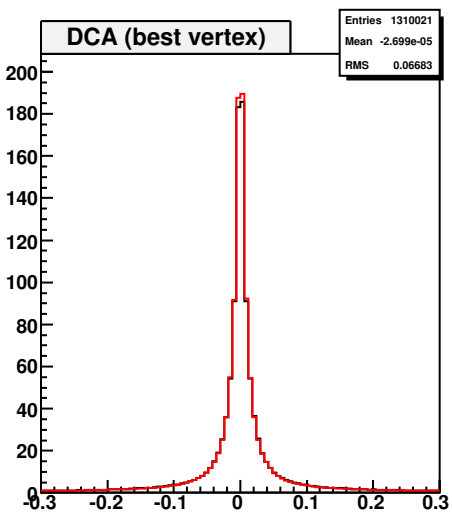

Chisq prob
Entries 1310021
Mean 0.2641
RMS 0.3196

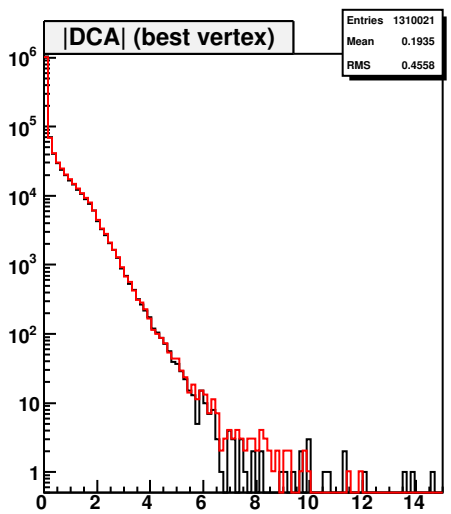

log10(PT)
Entries 1310021
Mean -0.1408
RMS 0.3605

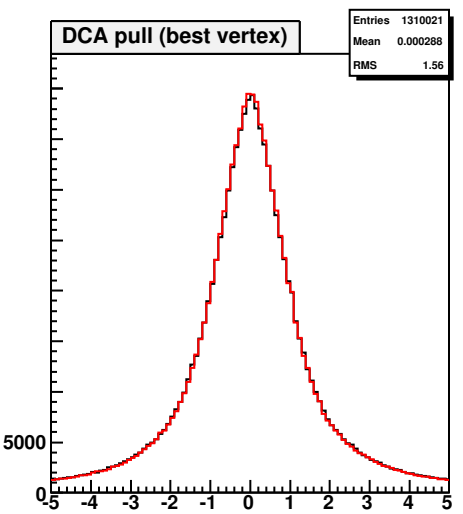

PHI at DCA (0,0)
Entries 1310021
Mean 3.175
RMS 1.839


TANLAM at DCA (0,0)
Entries 1310021
Mean 0.005507
RMS 3.832

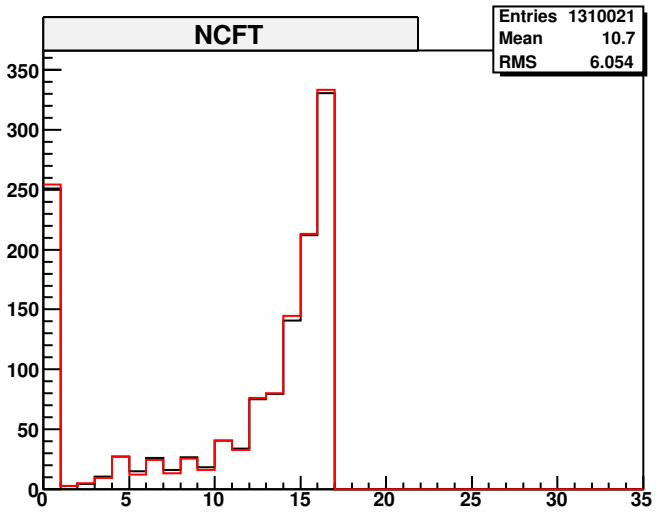

Z at DCA (0,0)
Entries 1310021
Mean -0.6041
RMS 23.13

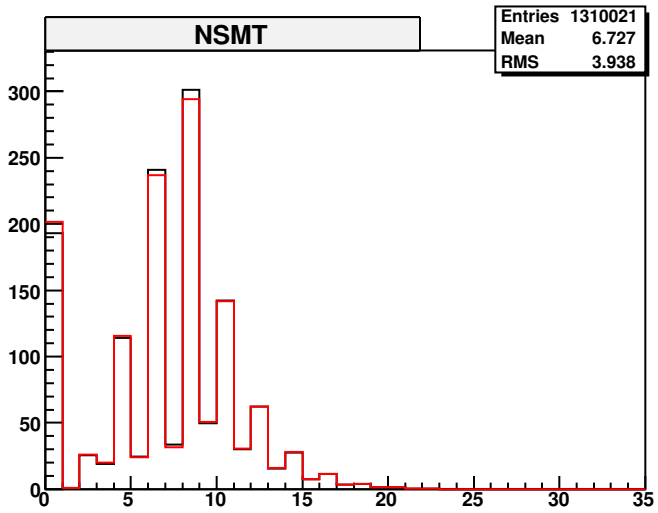

DCA (best vertex)
Entries 1310021
Mean -2.699e-05
RMS 0.06683

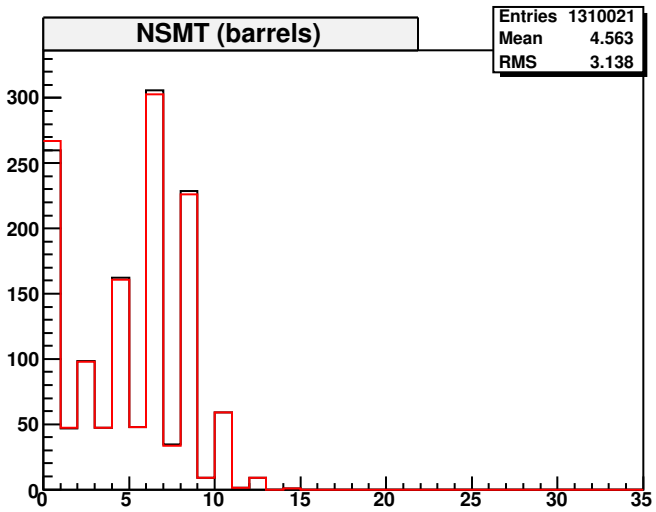

|DCA| (best vertex)
Entries 1310021
Mean 0.1935
RMS 0.4558

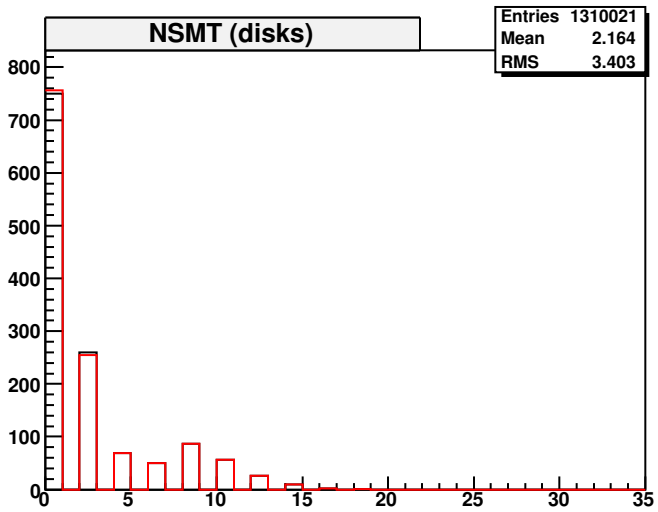

DCA pull (best vertex)
Entries 1310021
Mean 0.000288
RMS 1.56

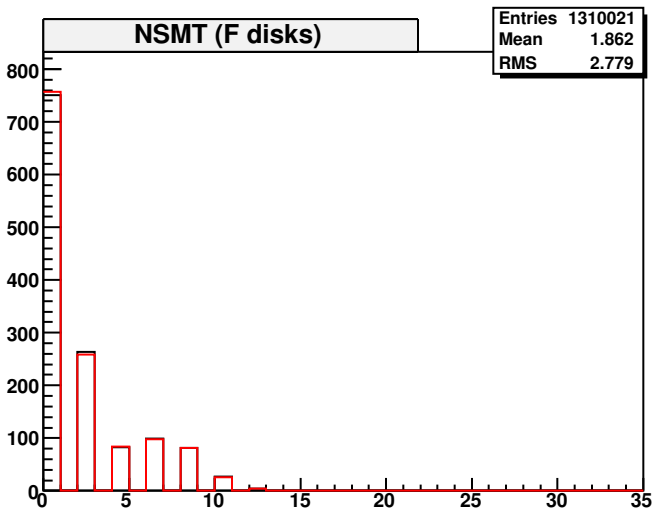
Tracks (All)

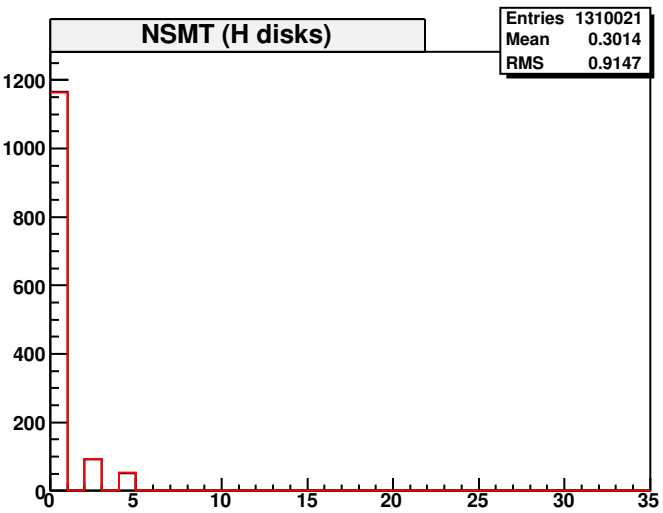




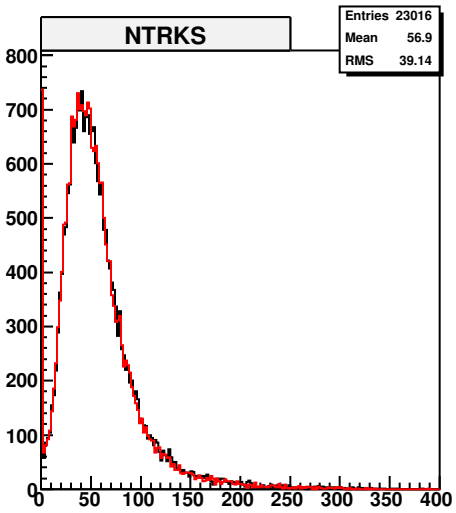


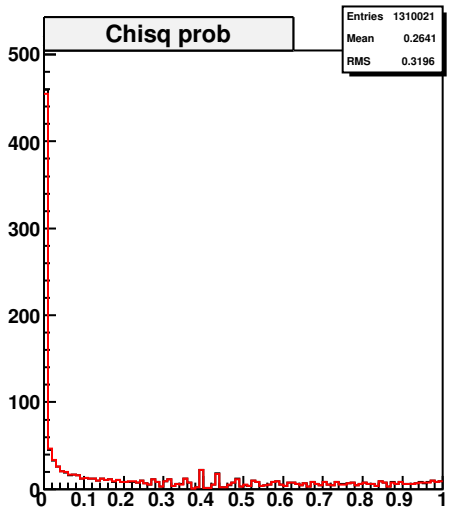


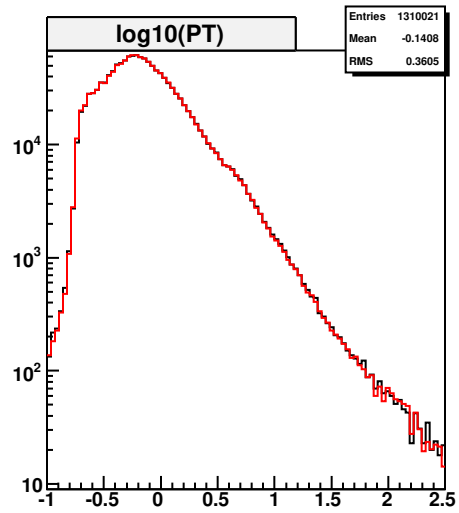


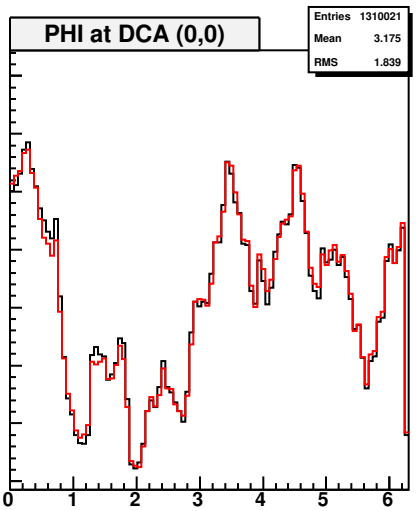


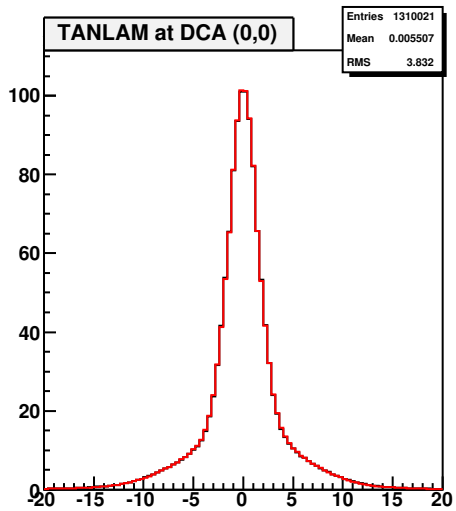
Track Hits (All)

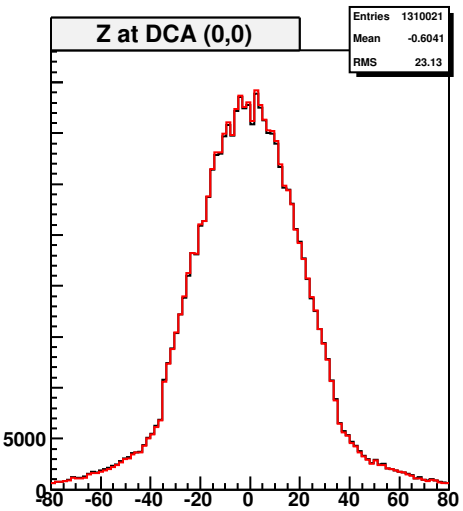


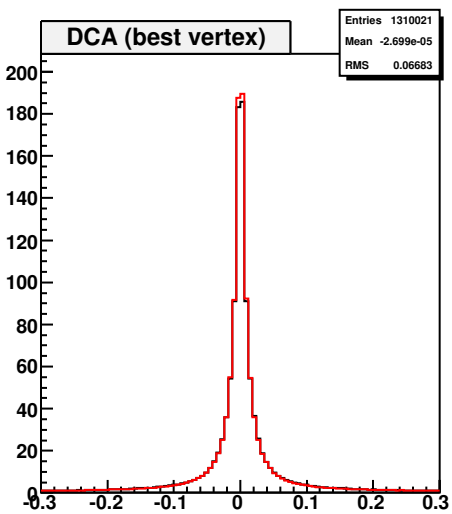


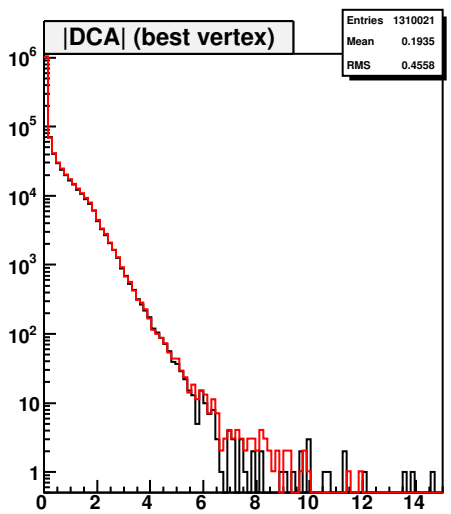


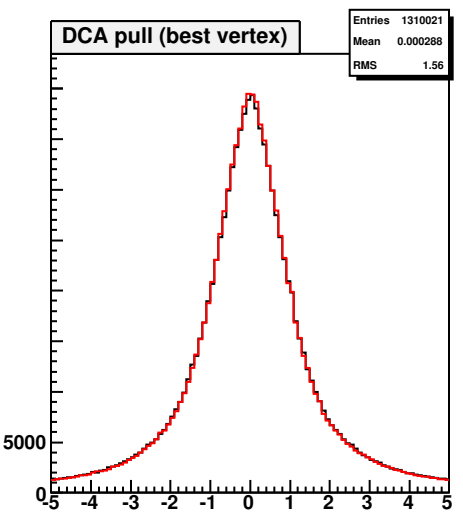




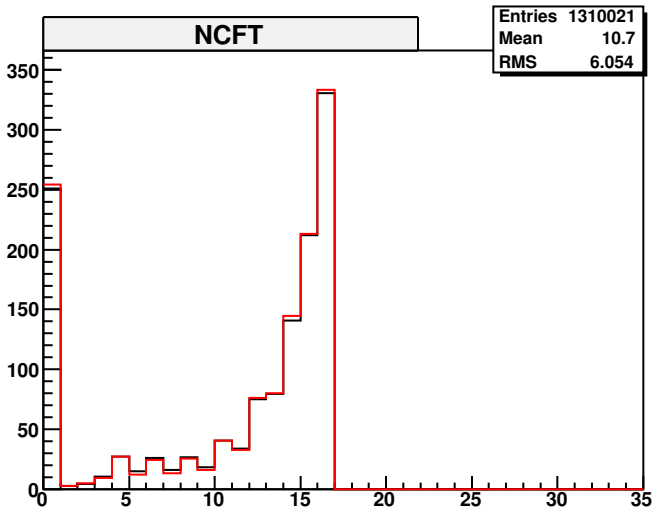


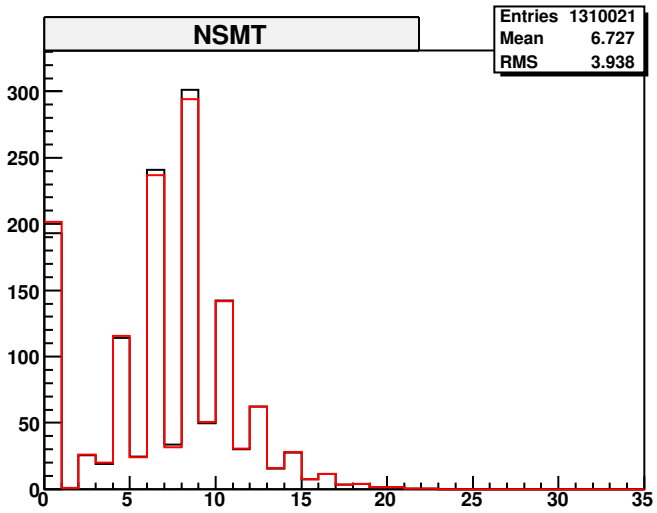


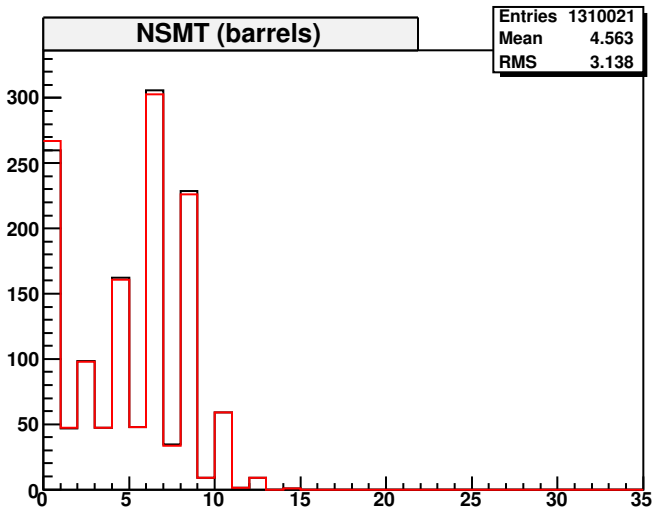


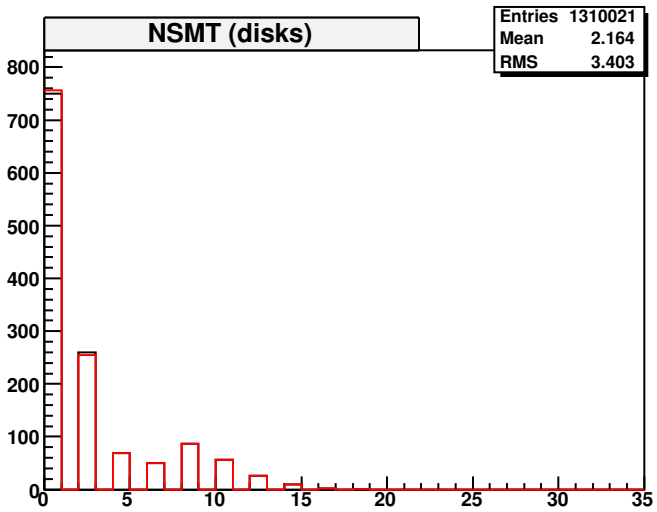


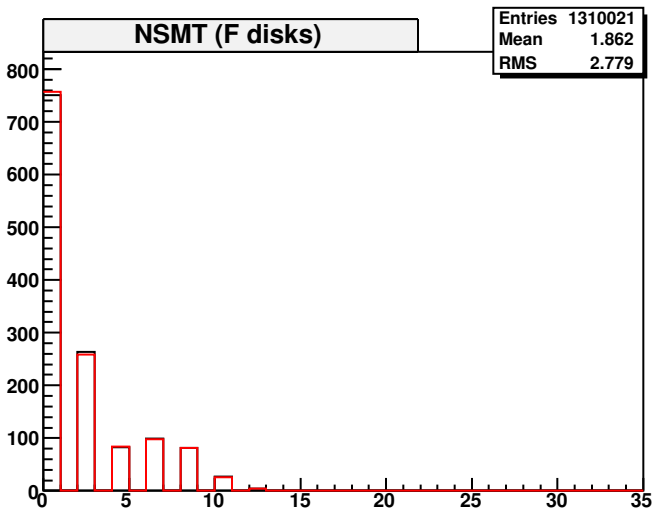
Tracks (Tight)

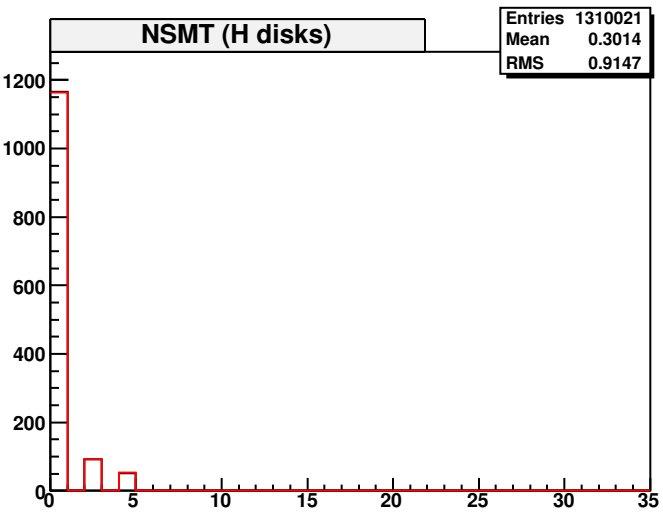




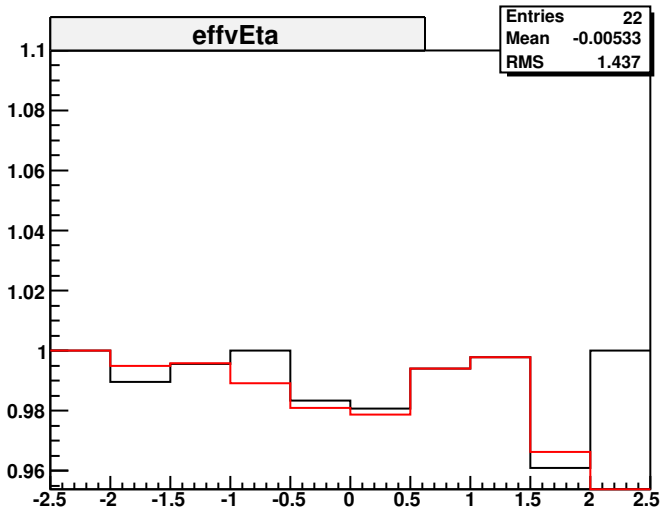


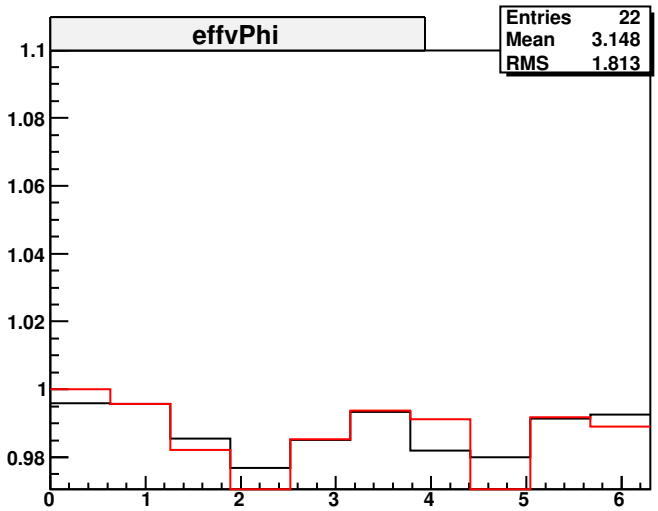


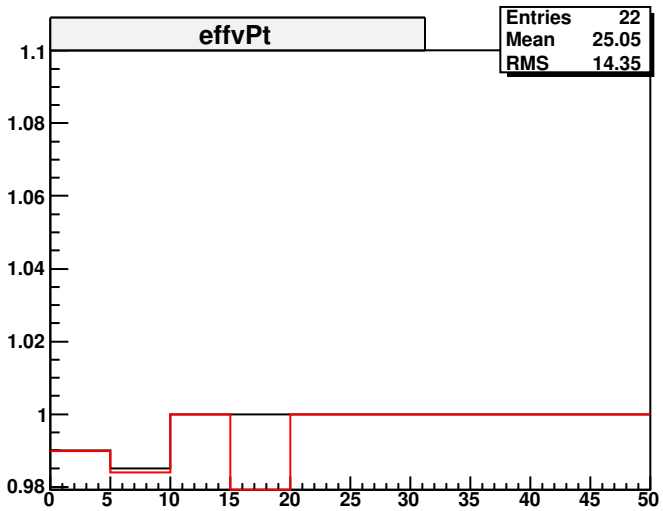


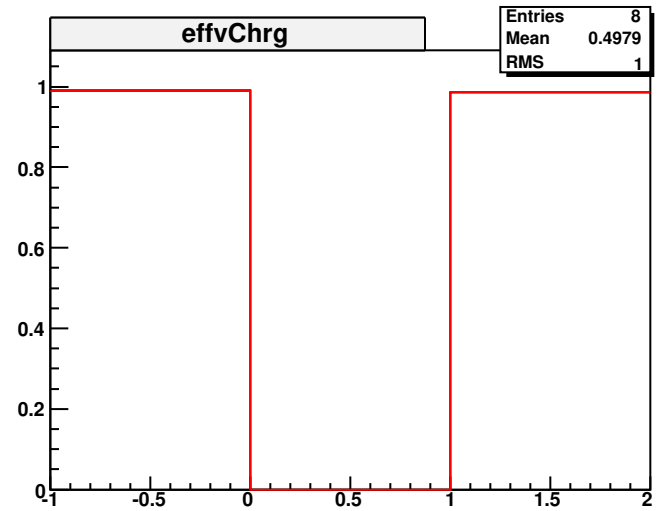


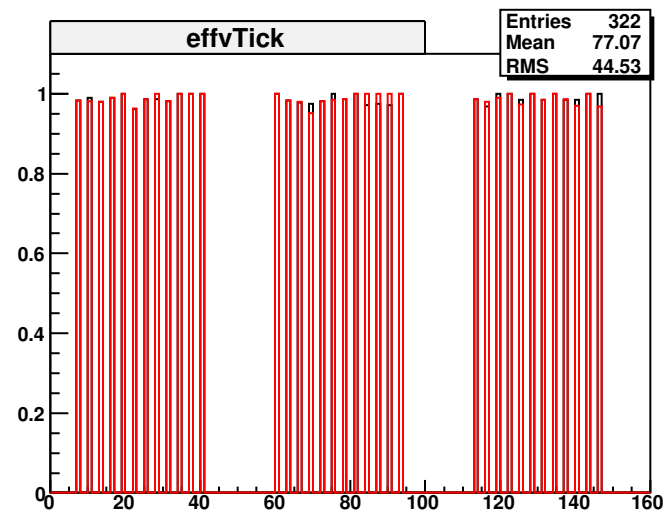
Track Hits (Tight)

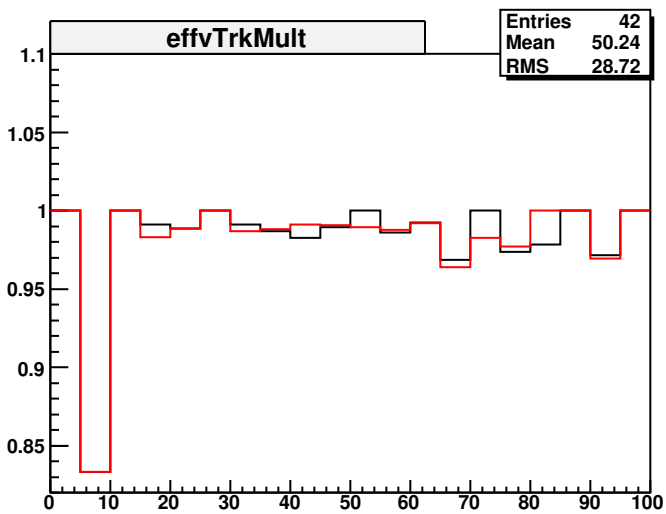




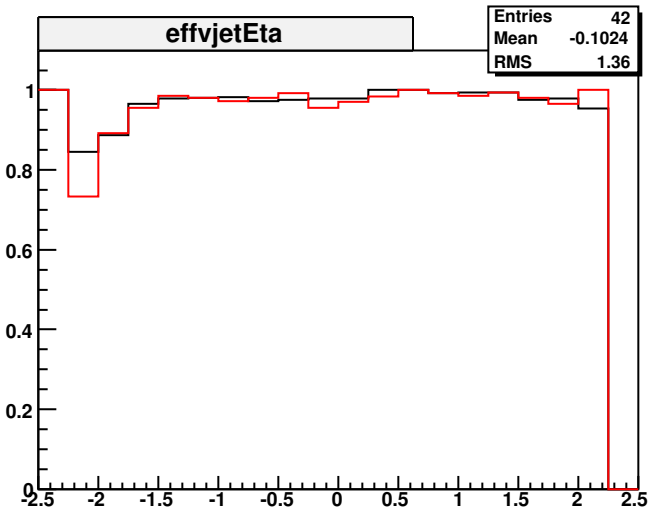


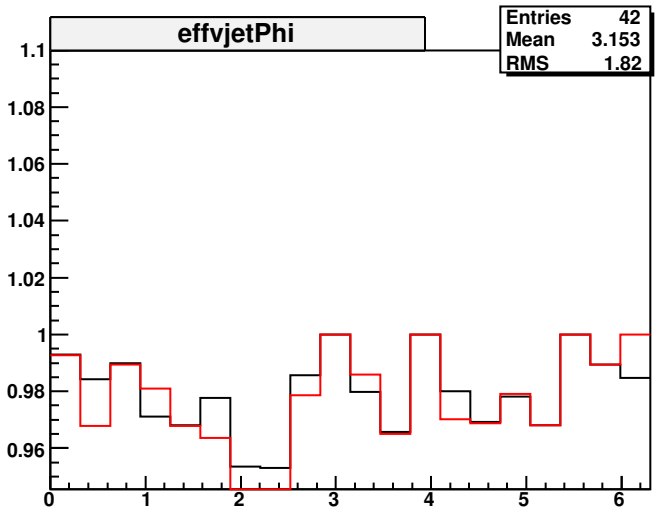


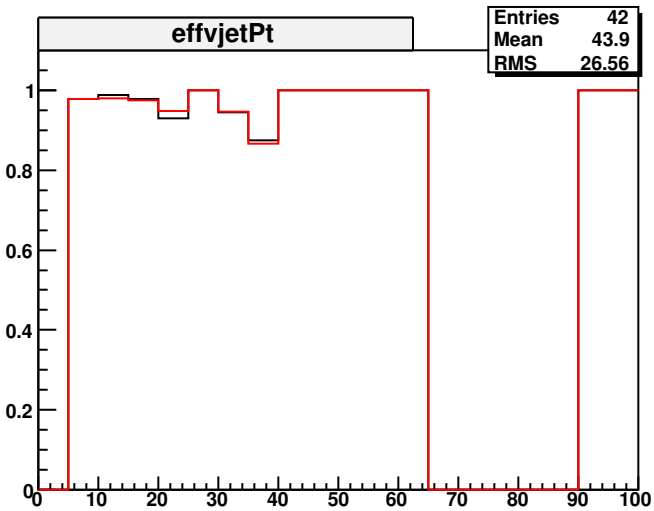




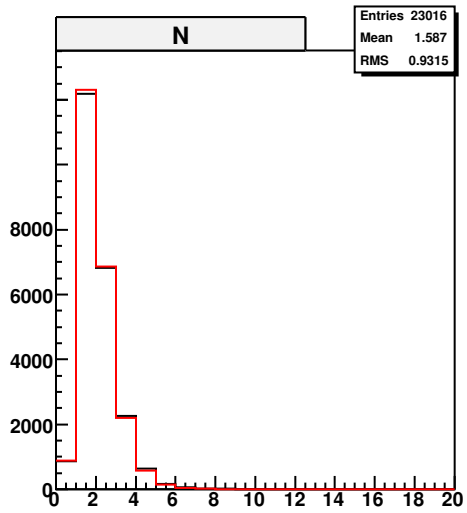
Tracking (Efficiency-Isolated)

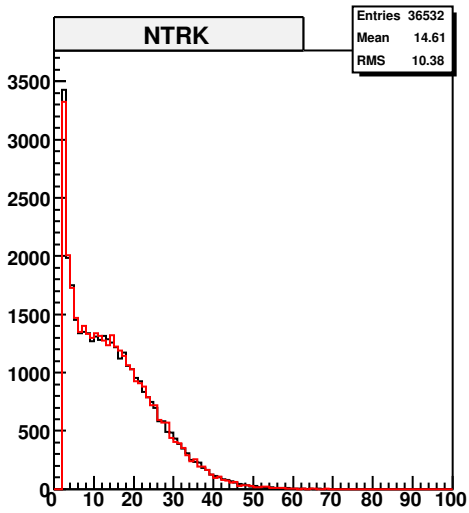


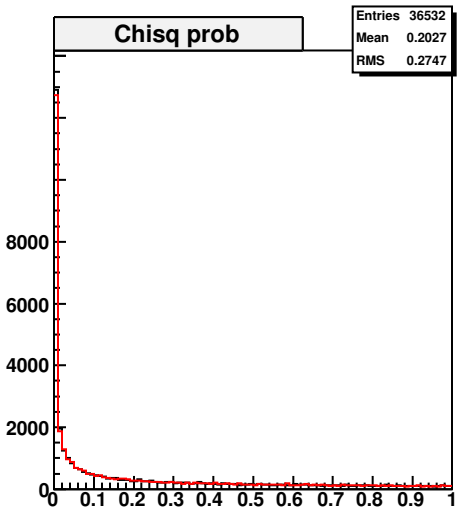


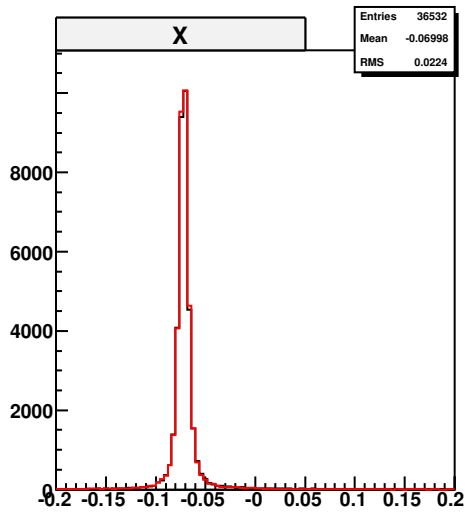


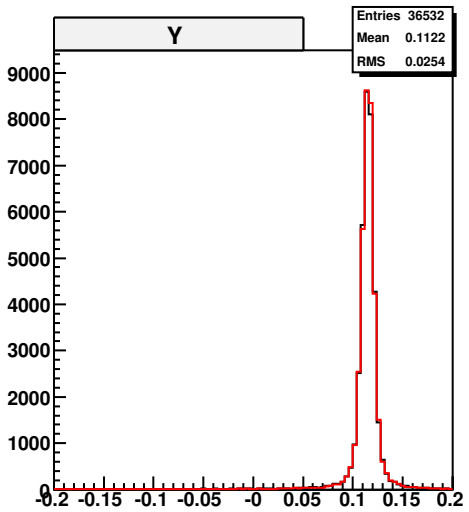
Tracking (Efficiency-InJets)

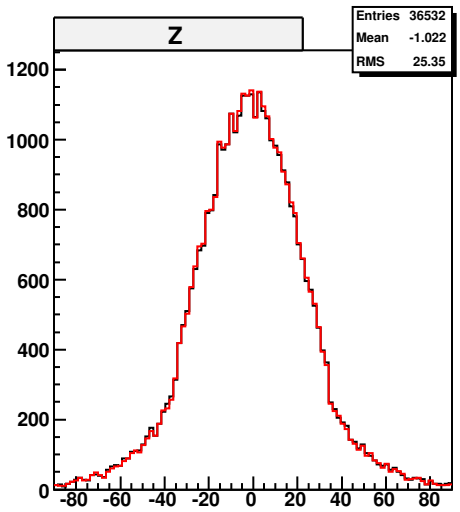


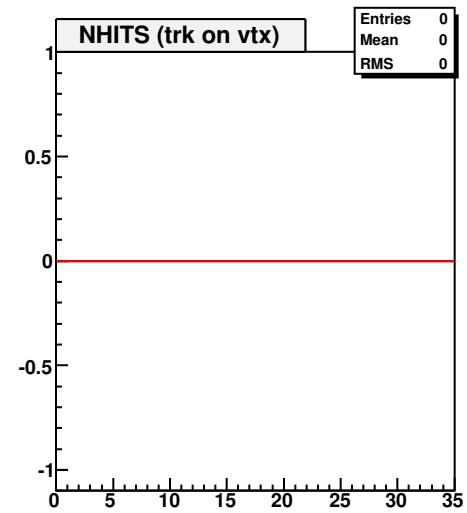


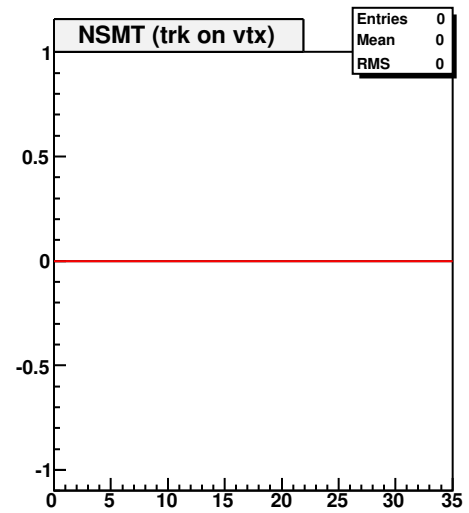


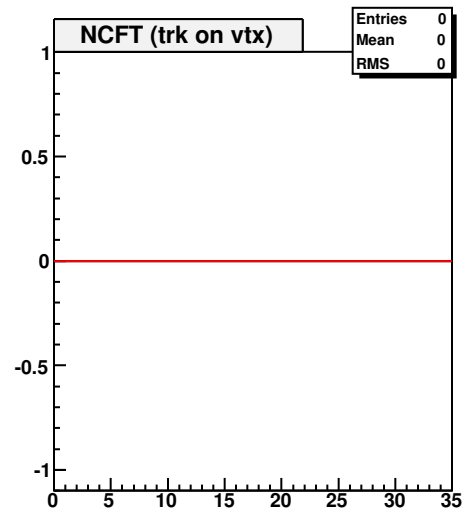




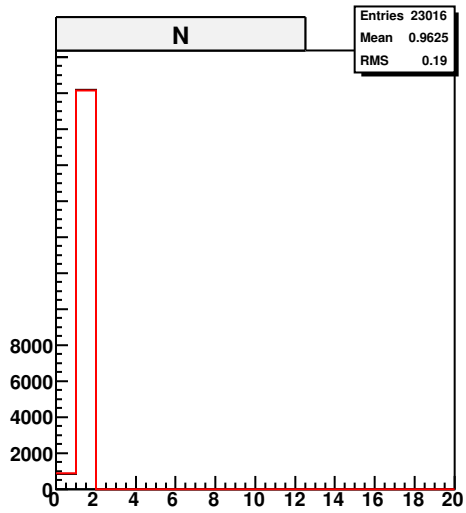


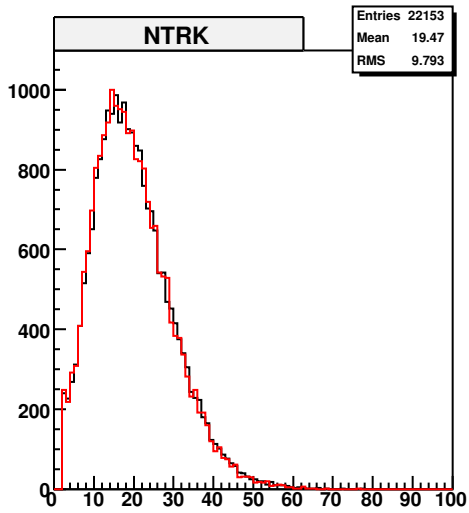


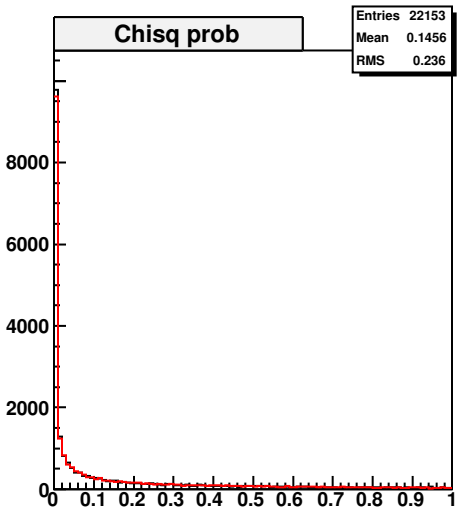


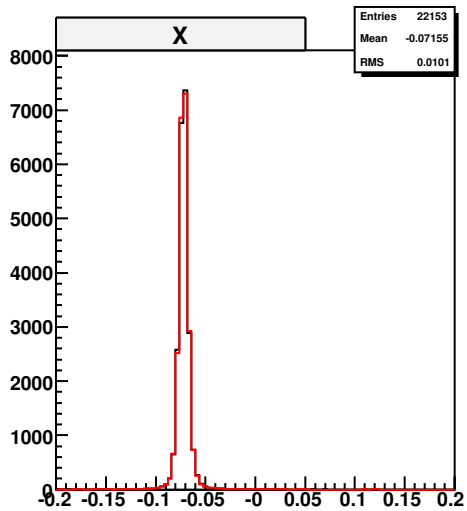


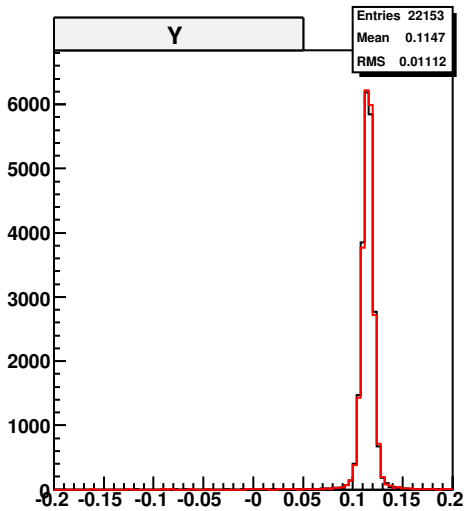
Vertices (Primary - all candidates)

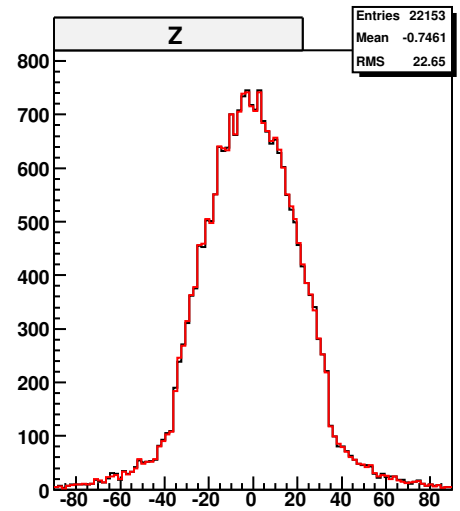


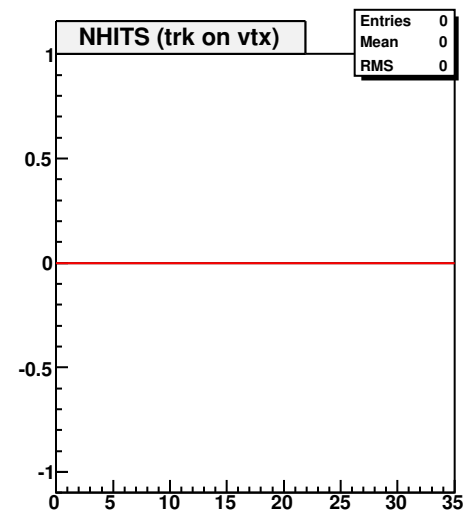


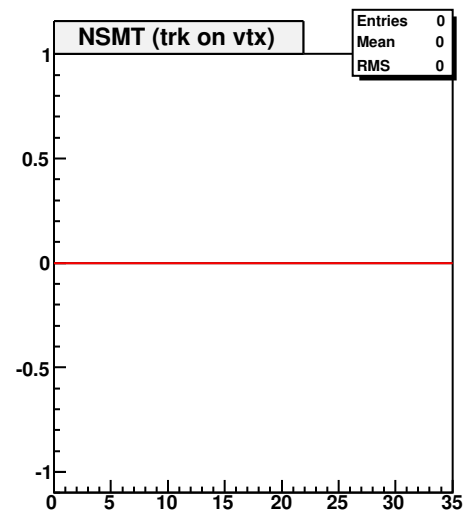


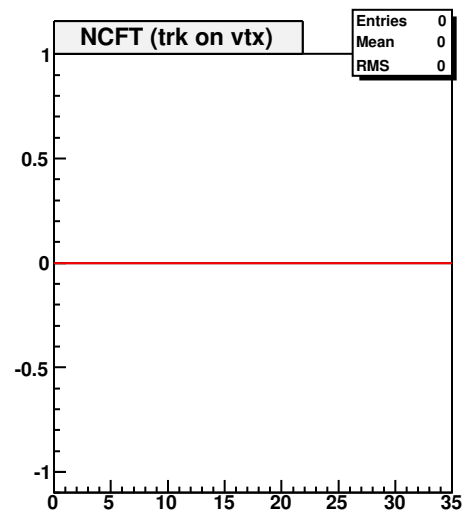




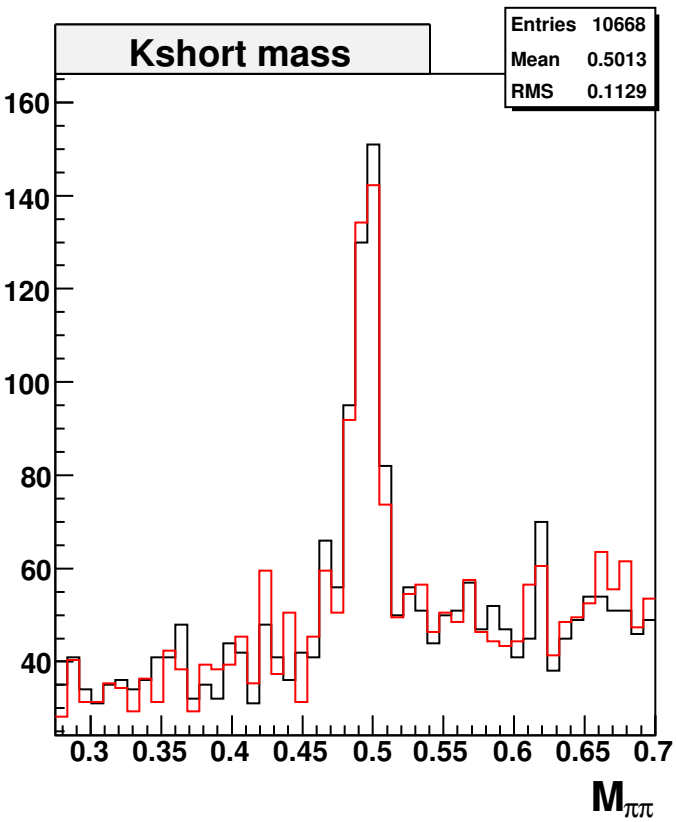


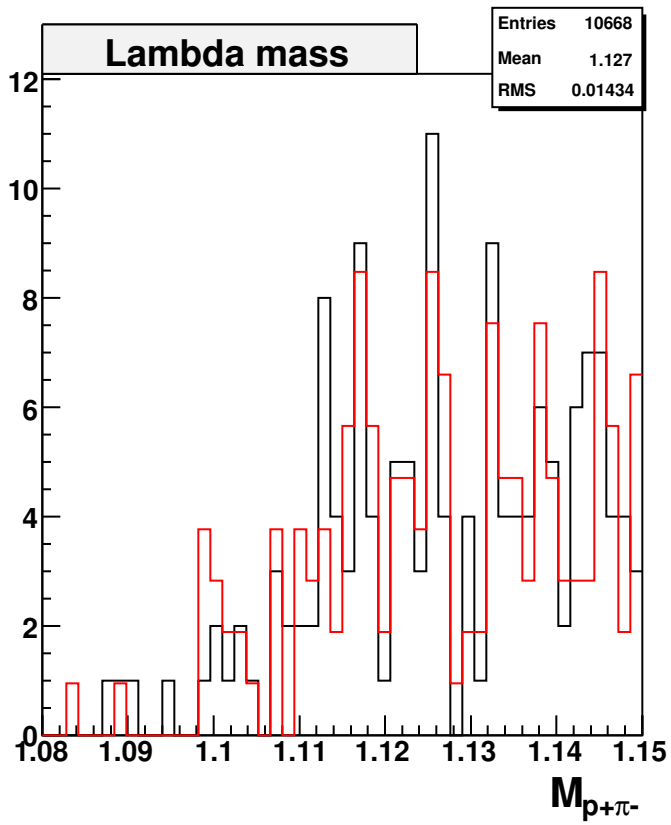


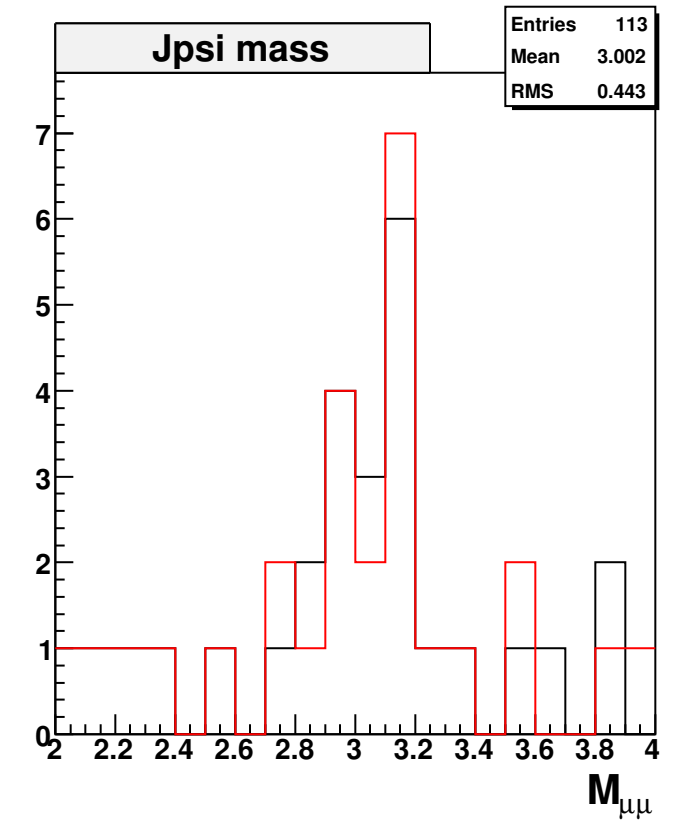


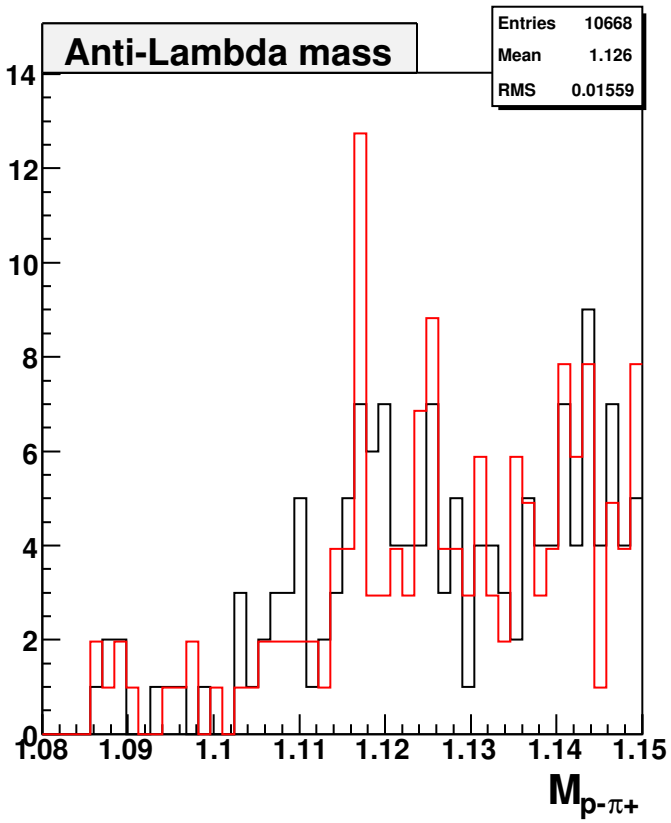


Vertices (Primary - best)

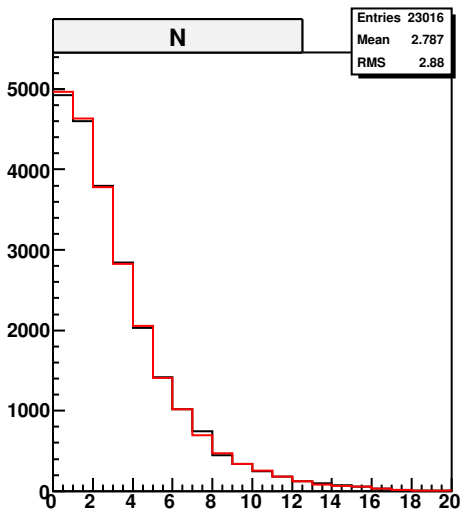

Kshort mass
Entries 10668
Mean 0.5013
RMS 0.1129
160
140
120
100
80
60
40
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

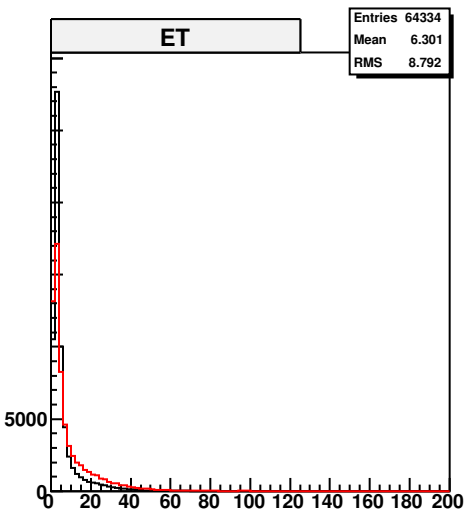

Lambda mass
Entries 10668
Mean 1.127
RMS 0.01434
12
10
8
6
4
2
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

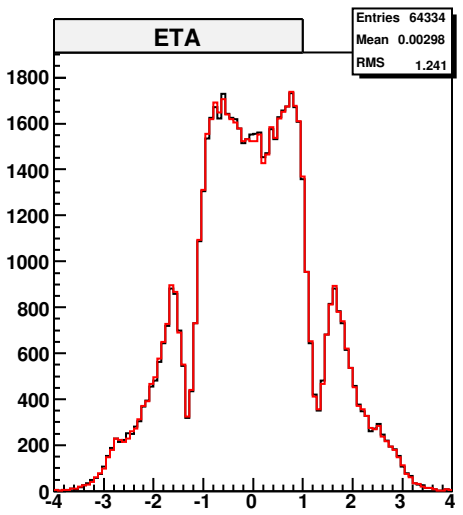

Jpsi mass
Entries 113
Mean 3.002
RMS 0.443
7
6
5
4
3
2
1
0
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

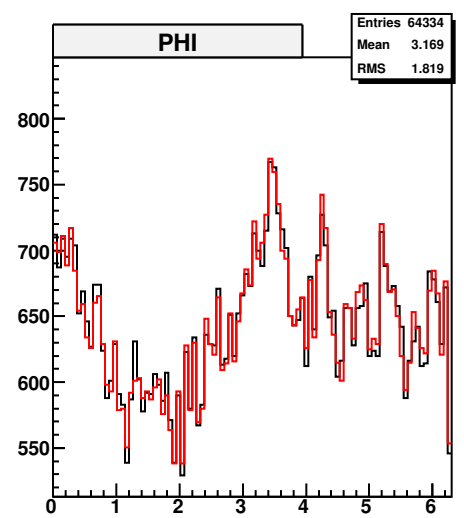

Anti-Lambda mass
Entries 10668
Mean 1.126
RMS 0.01559
14
12
10
8
6
4
2
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

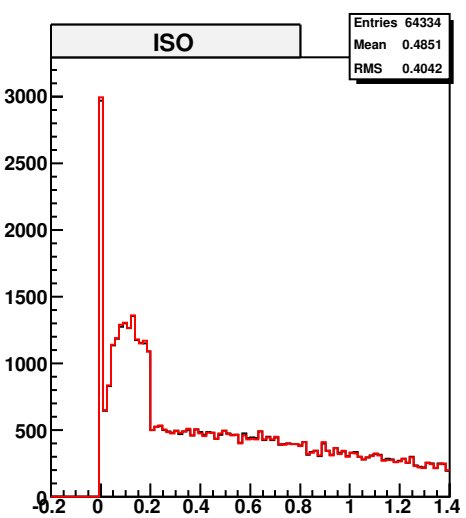
V0 (All)

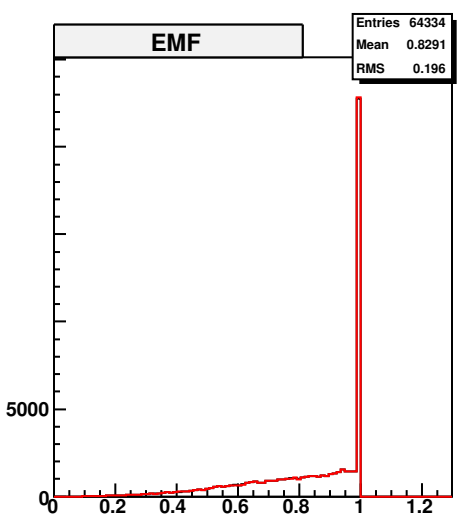


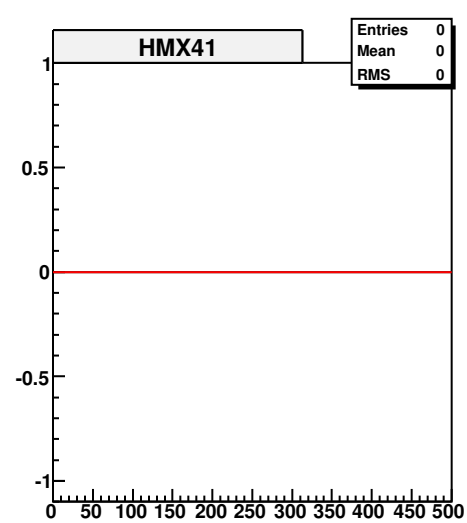


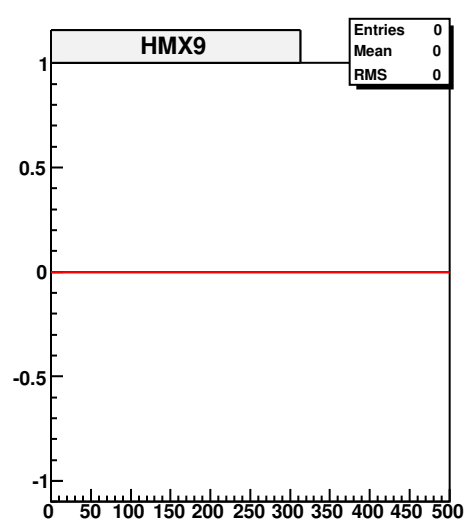


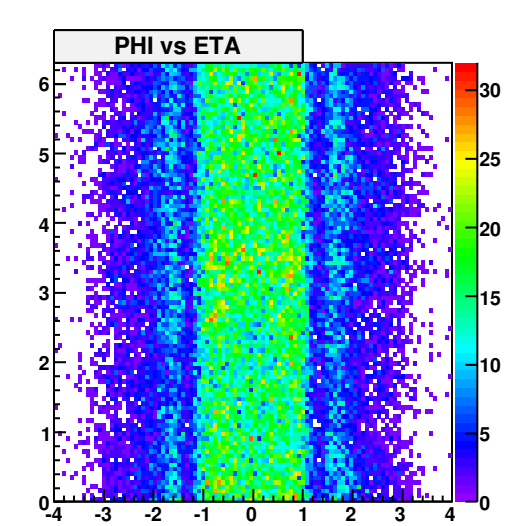




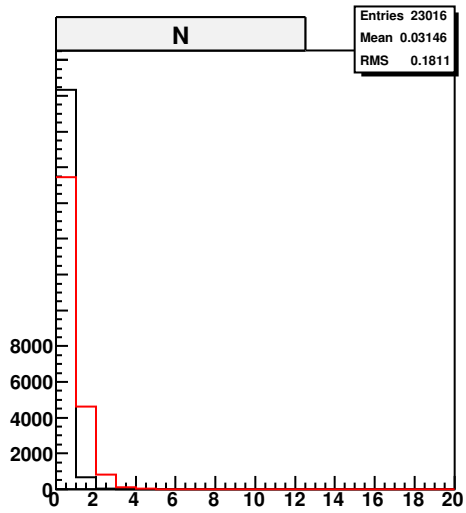


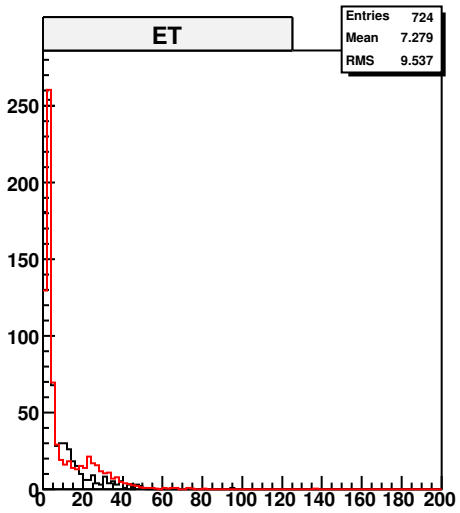


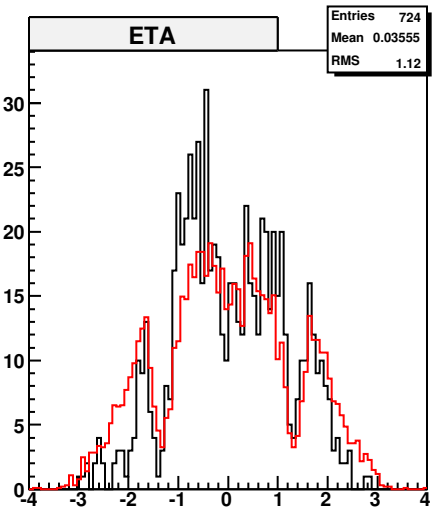


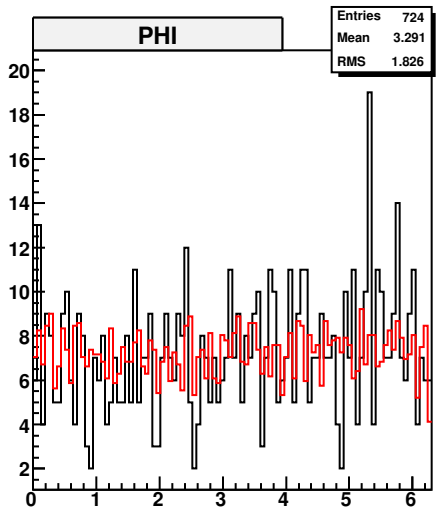


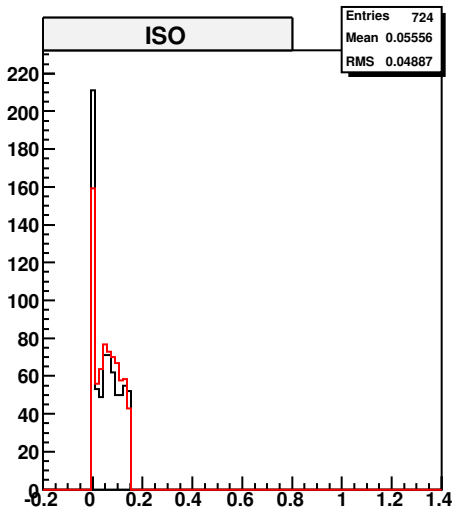
Electrons (SCONE All)

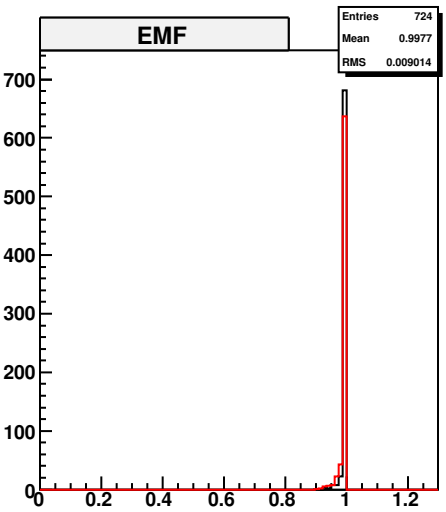


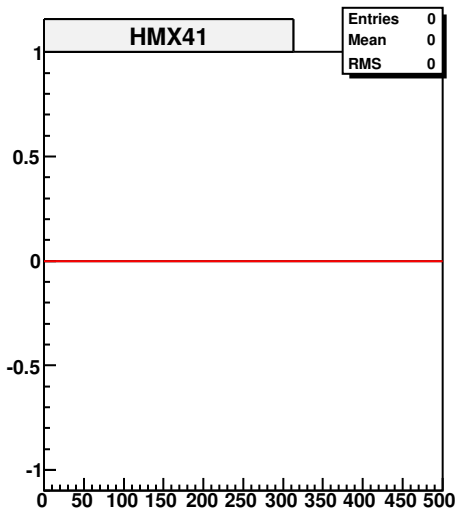


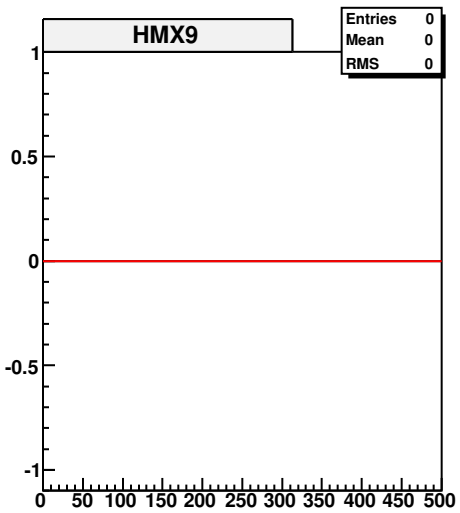


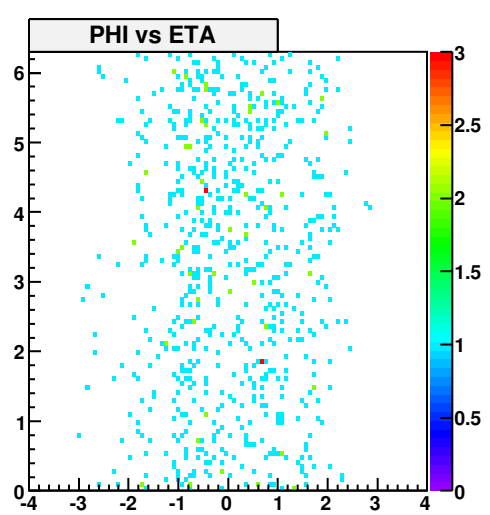




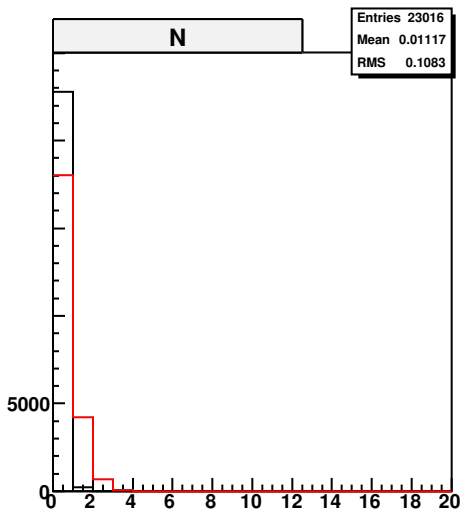


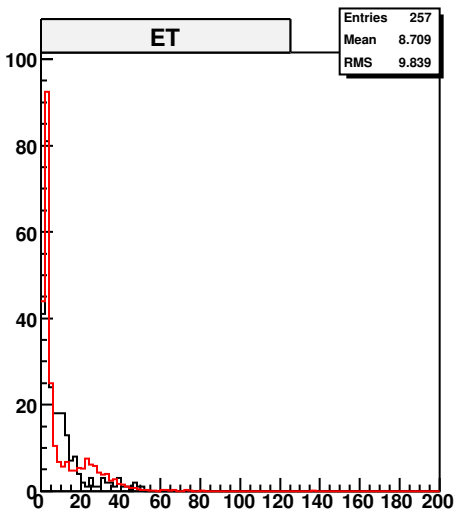


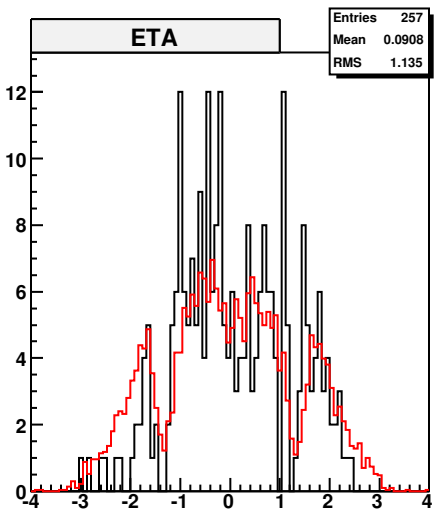


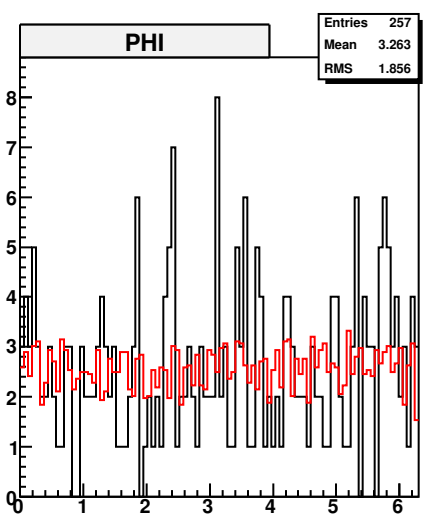


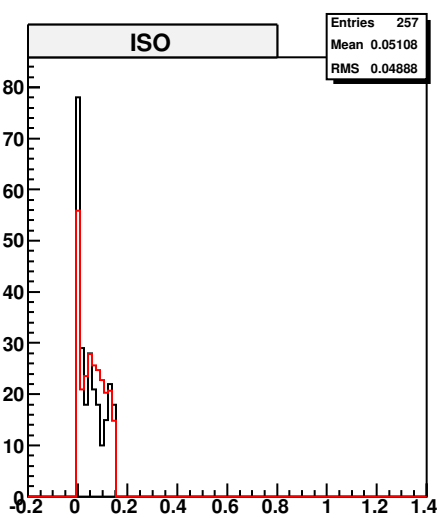
Electrons (SCONE Loose)

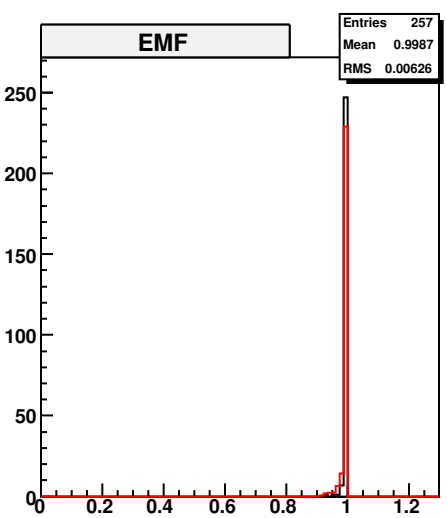


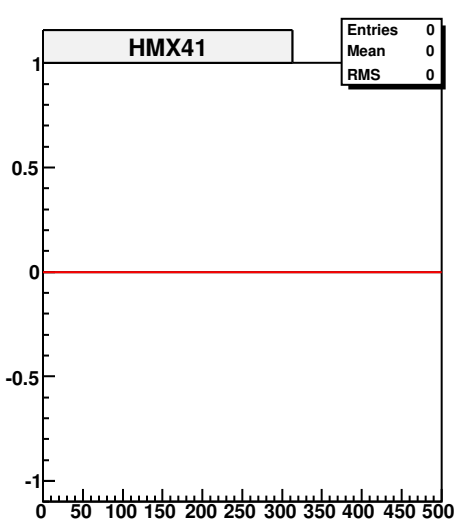


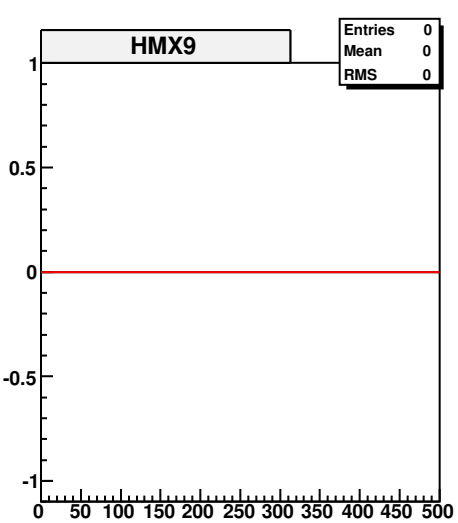


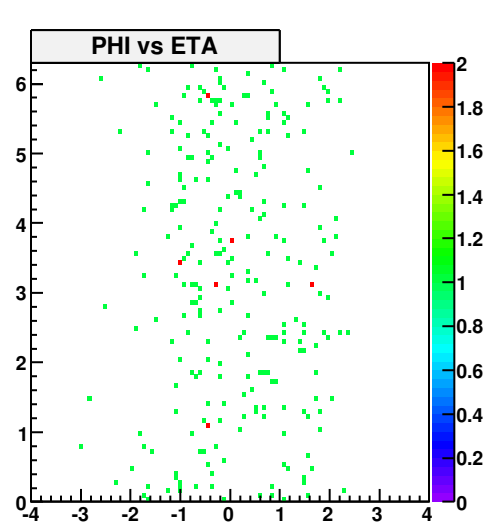




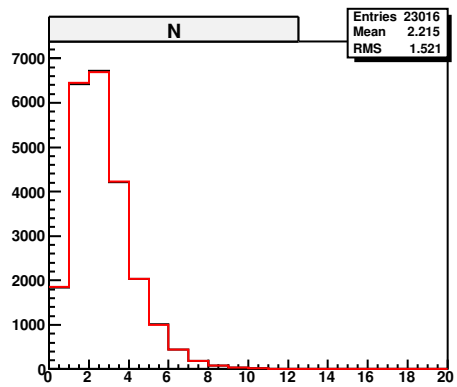


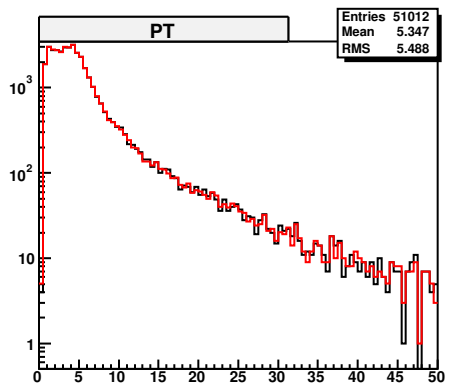


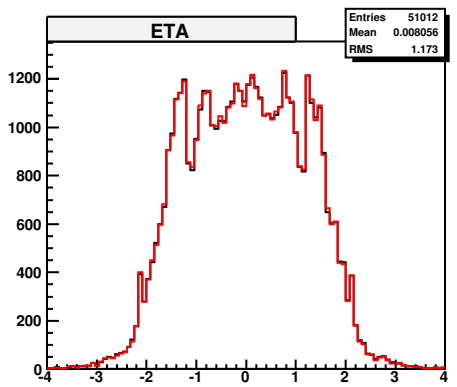


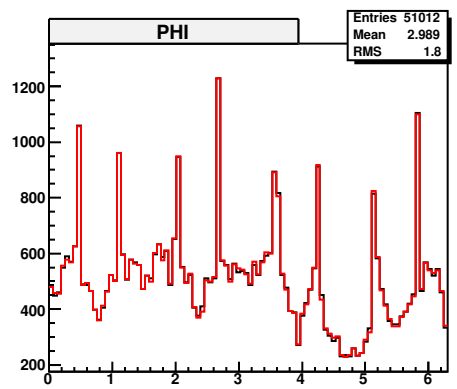


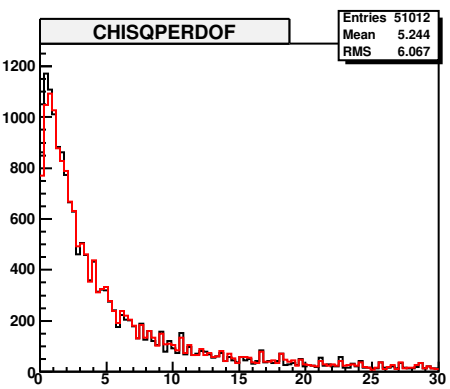
Electrons (SCONE Tight)

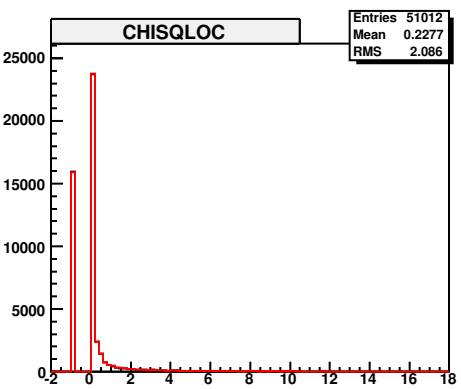

N
Entries 23016
Mean 2.215
RMS 1.521

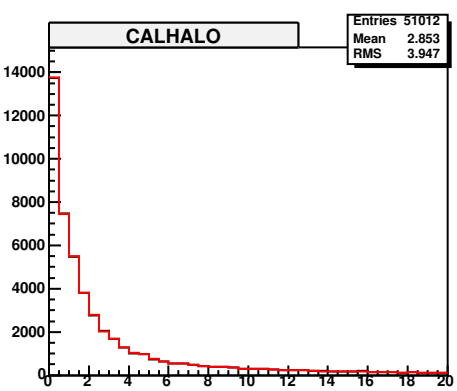

PT
Entries 51012
Mean 5.347
RMS 5.488

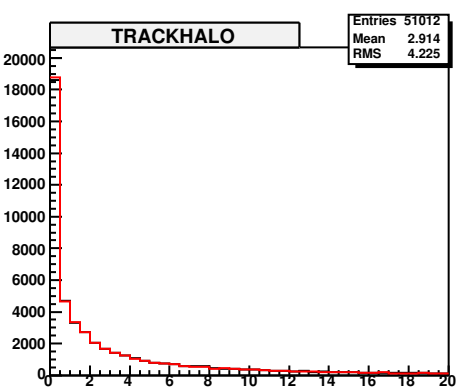

ETA
Entries 51012
Mean 0.008056
RMS 1.173

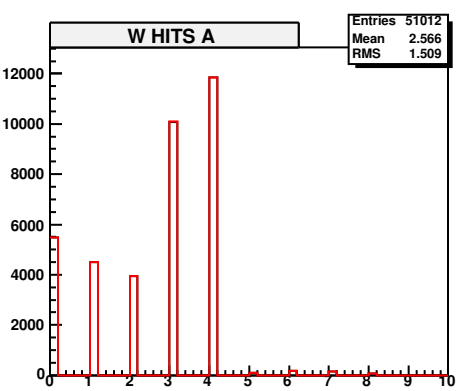

PHI
Entries 51012
Mean 2.989
RMS 1.8

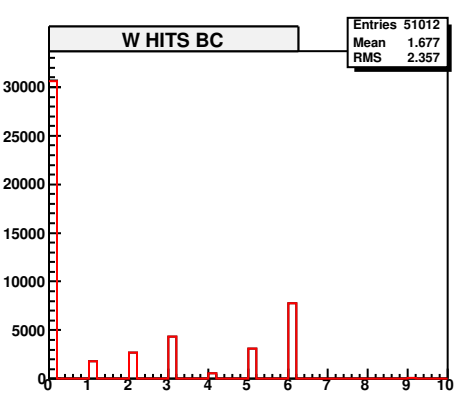

CHISQPERDOF
Entries 51012
Mean 5.244
RMS 6.067

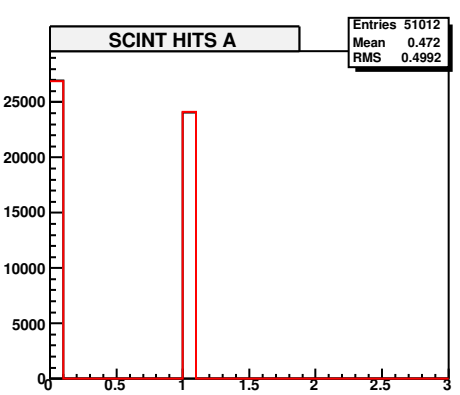

CHISQLOC
Entries 51012
Mean 0.2277
RMS 2.086

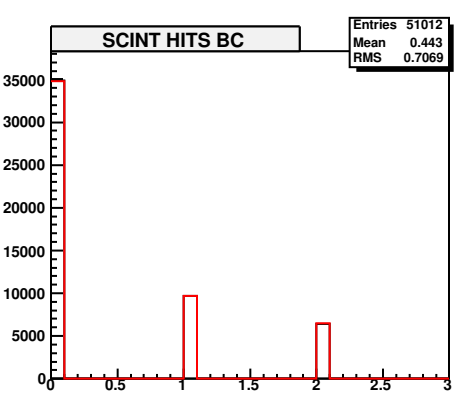

CALHALO
Entries 51012
Mean 2.853
RMS 3.947


TRACKHALO
Entries 51012
Mean 2.914
RMS 4.225

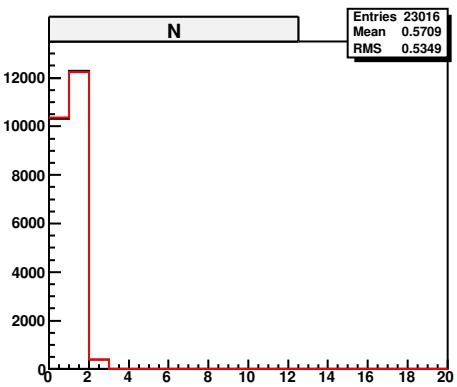

W HITS A
Entries 51012
Mean 2.566
RMS 1.509

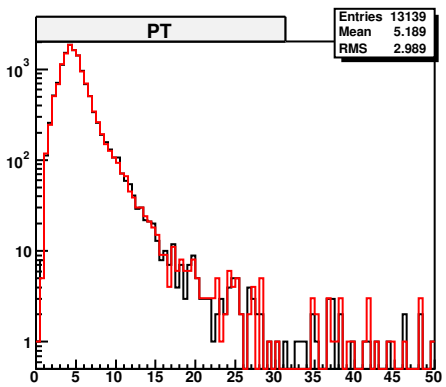

W HITS BC
Entries 51012
Mean 1.677
RMS 2.357

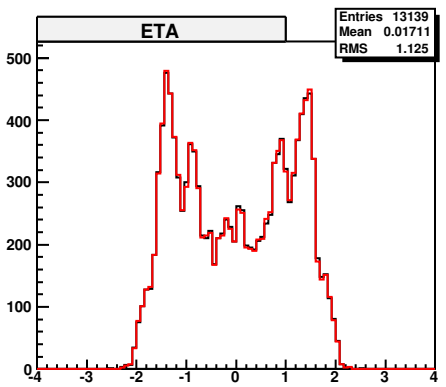

SCINT HITS A
Entries 51012
Mean 0.472
RMS 0.4992

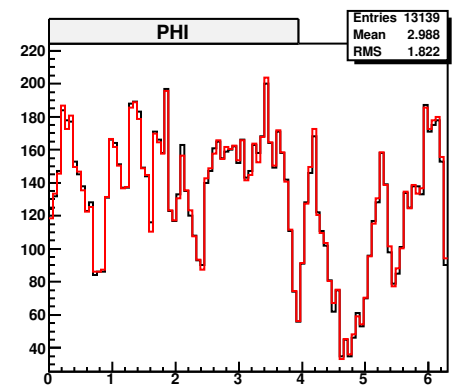

SCINT HITS BC
Entries 51012
Mean 0.443
RMS 0.7069

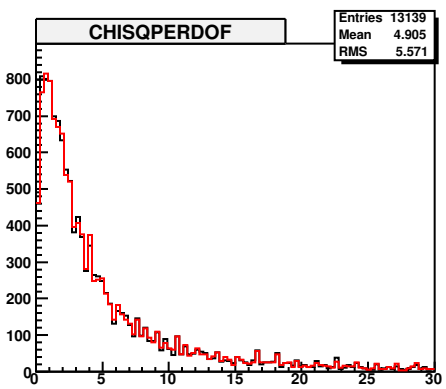
Muons (All)

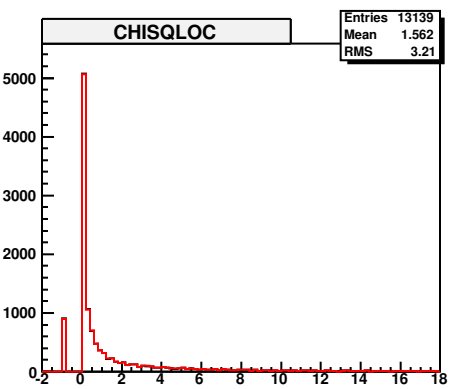


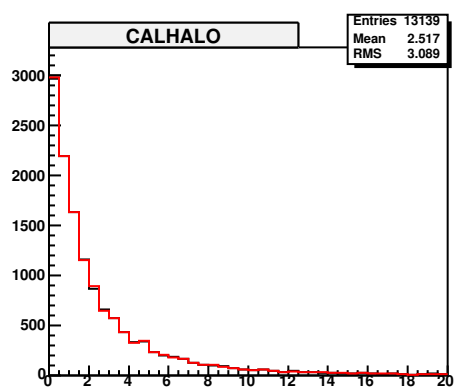


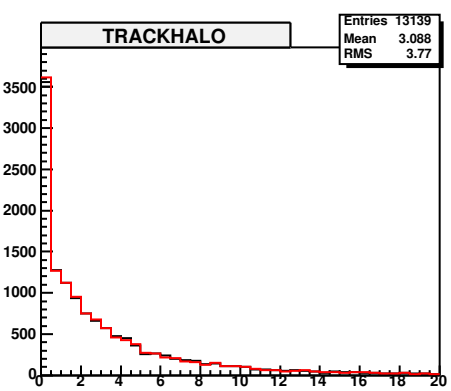


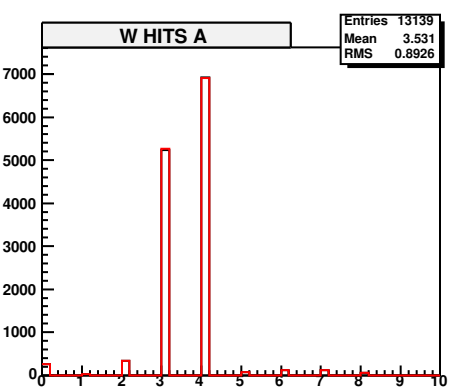


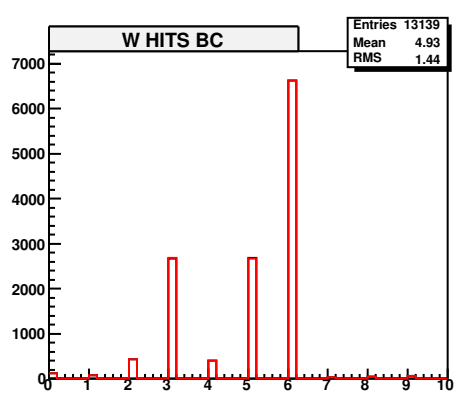


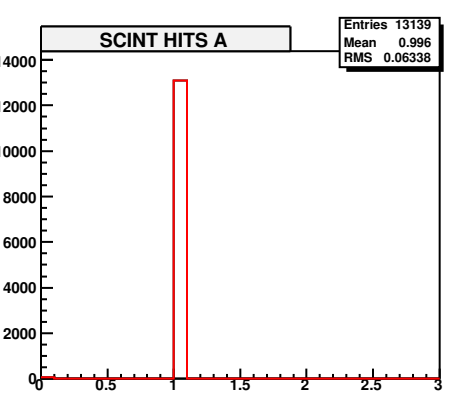


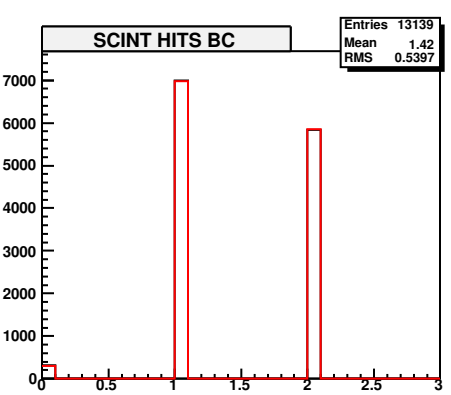




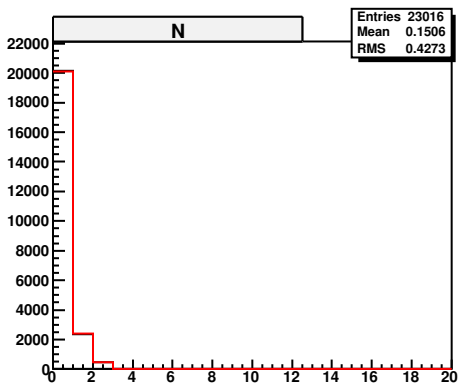


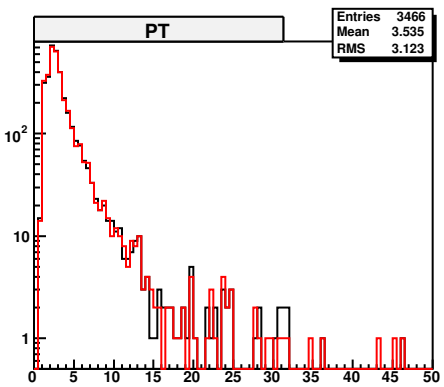


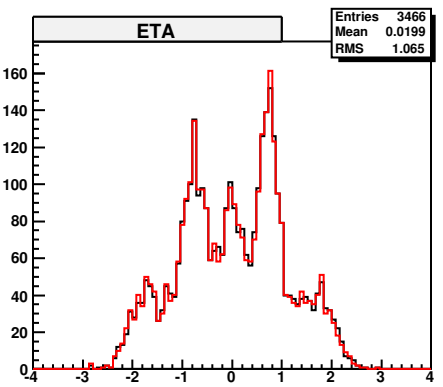


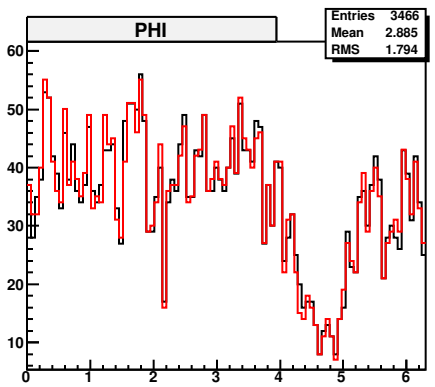


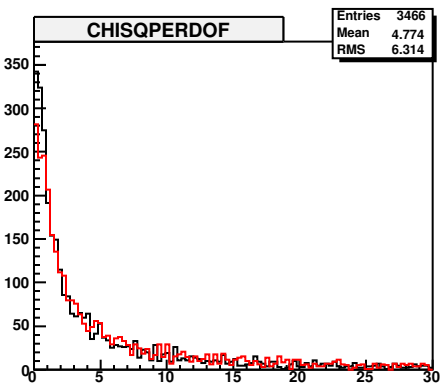
Muons (Matched)

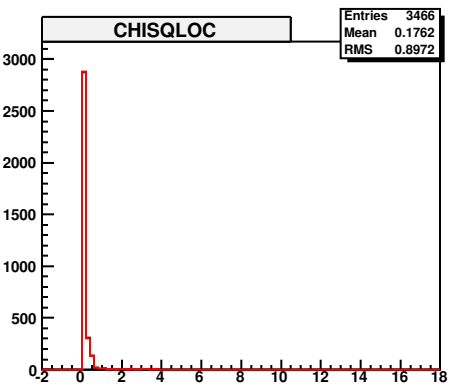

N
Entries 23016
Mean 0.1506
RMS 0.4273

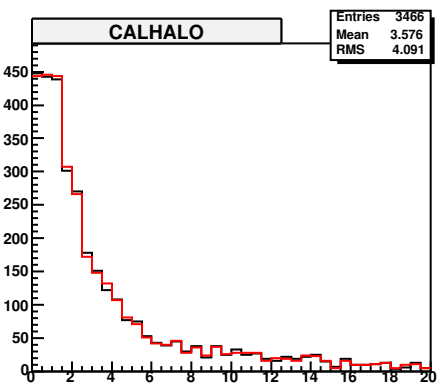

PT
Entries 3466
Mean 3.535
RMS 3.123

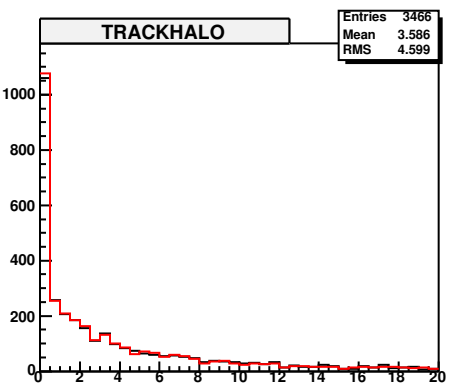

ETA
Entries 3466
Mean 0.0199
RMS 1.065

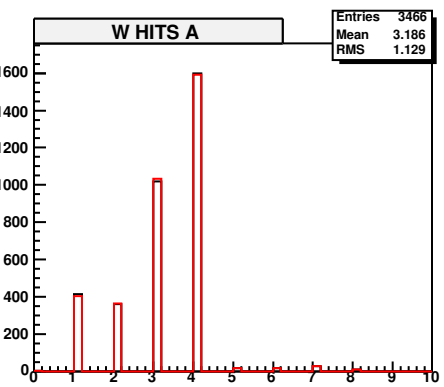

PHI
Entries 3466
Mean 2.885
RMS 1.794

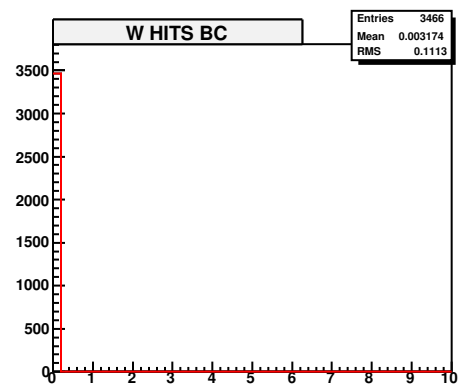

CHISQPERDOF
Entries 3466
Mean 4.774
RMS 6.314

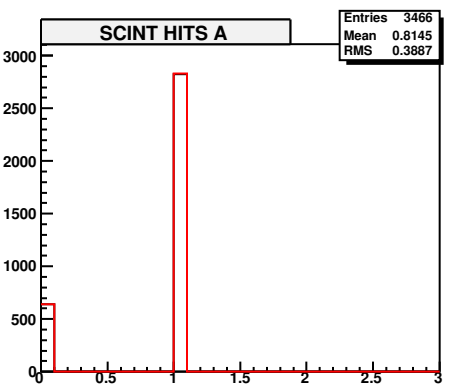

CHISQLOC
Entries 3466
Mean 0.1762
RMS 0.8972

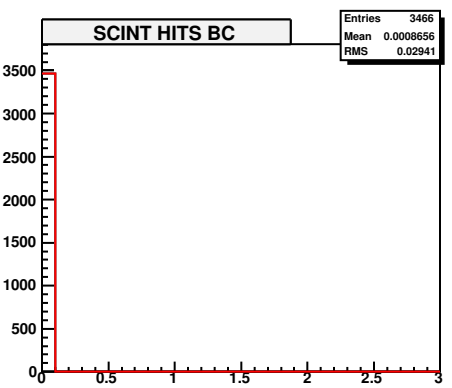

CALHALO
Entries 3466
Mean 3.576
RMS 4.091


TRACKHALO
Entries 3466
Mean 3.586
RMS 4.599

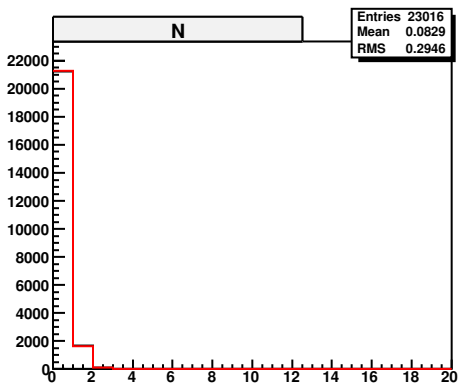

W HITS A
Entries 3466
Mean 3.186
RMS 1.129

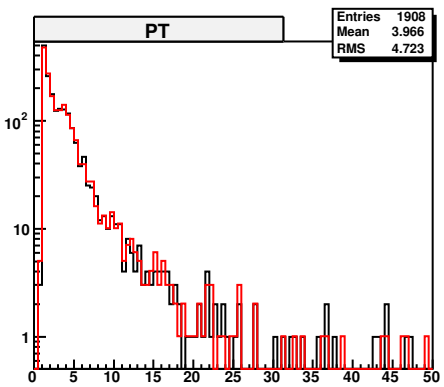

W HITS BC
Entries 3466
Mean 0.003174
RMS 0.1113

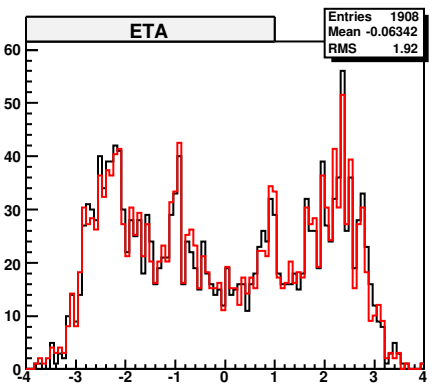

SCINT HITS A
Entries 3466
Mean 0.8145
RMS 0.3887

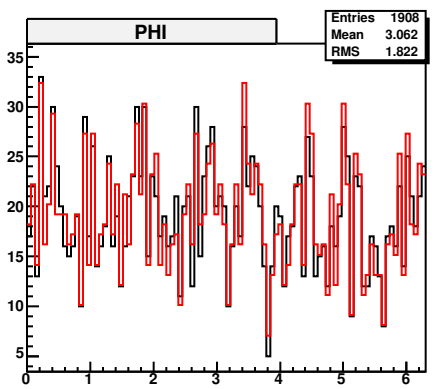

SCINT HITS BC
Entries 3466
Mean 0.0008656
RMS 0.02941

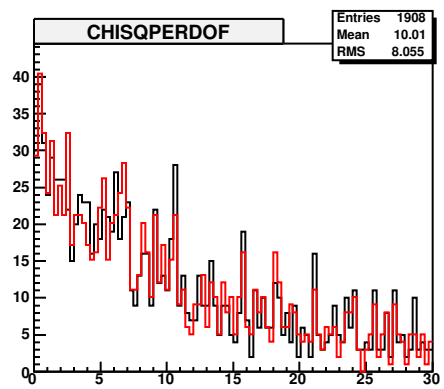
Muons (Astub)

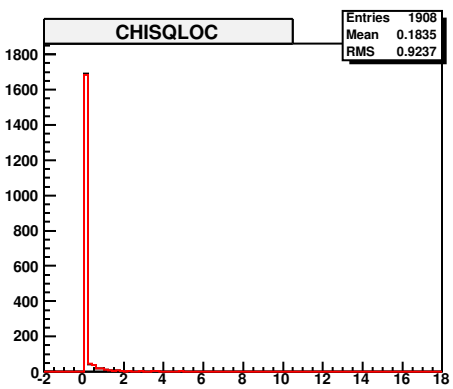


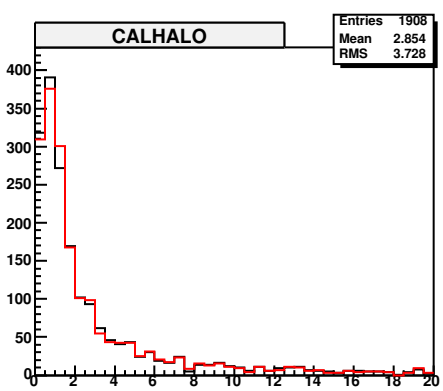


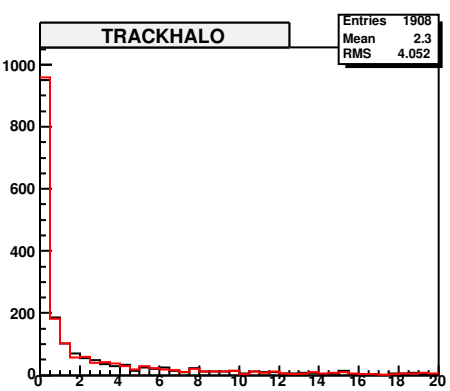


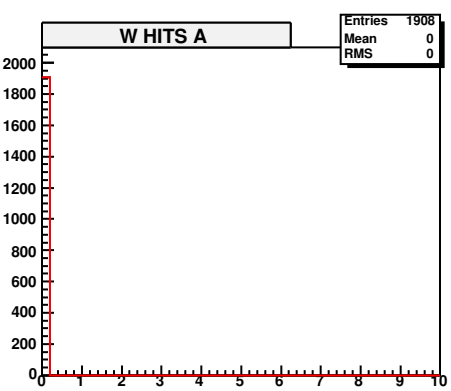


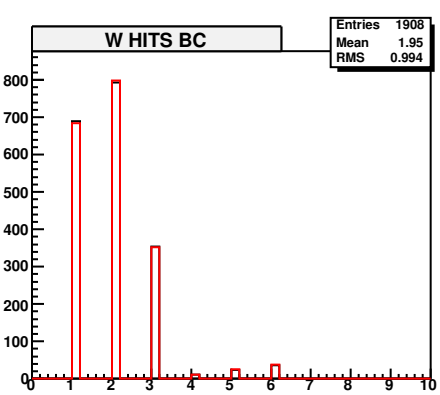


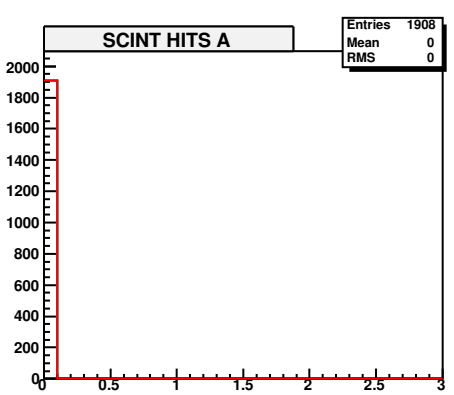


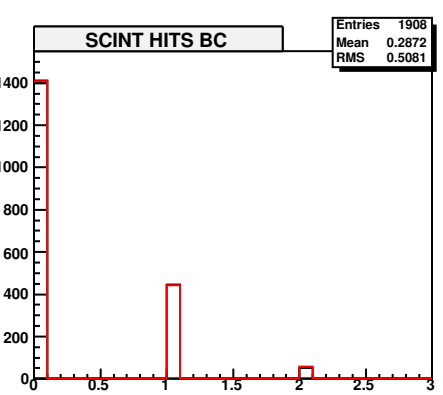




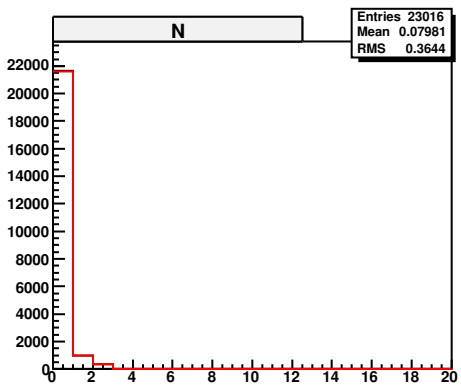


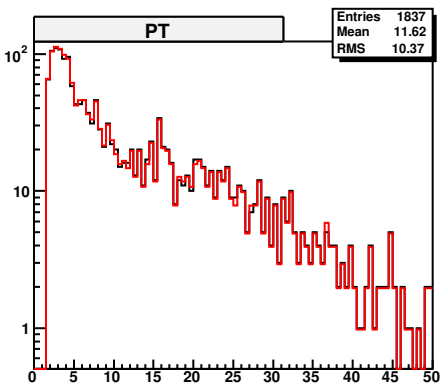


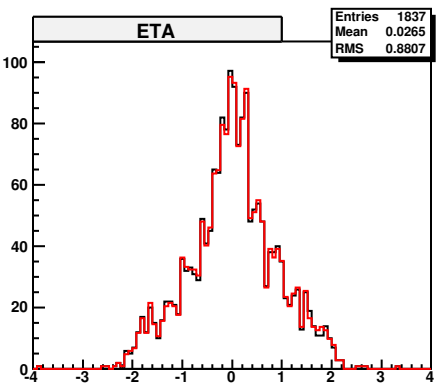


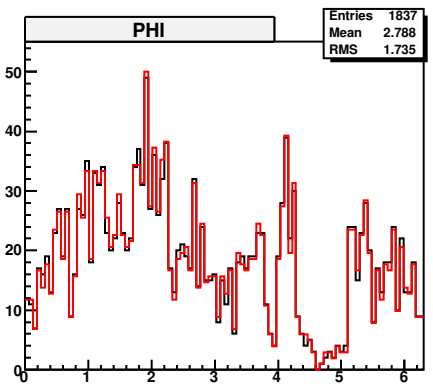


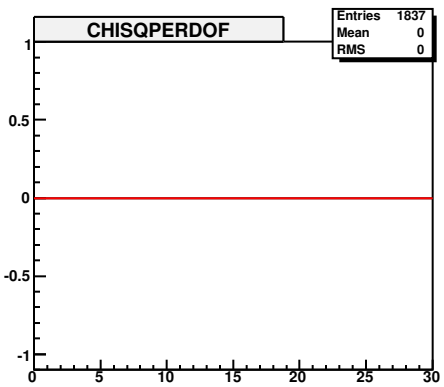
Muons (BCstub)

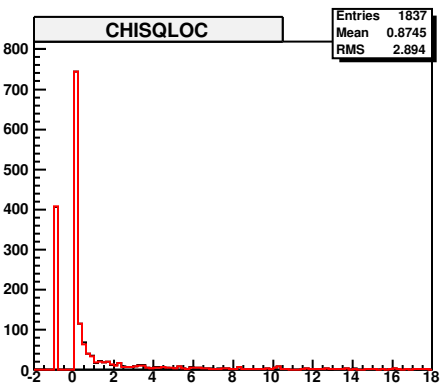


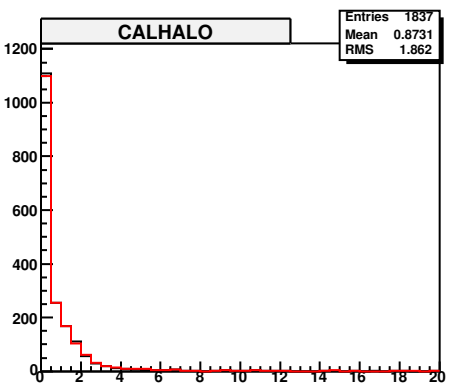


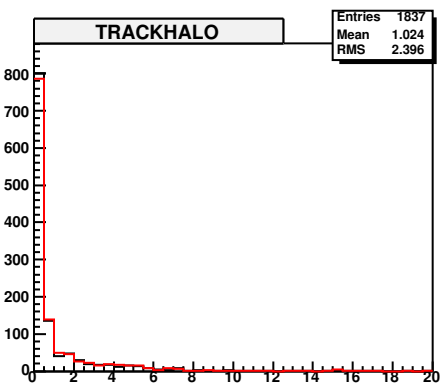


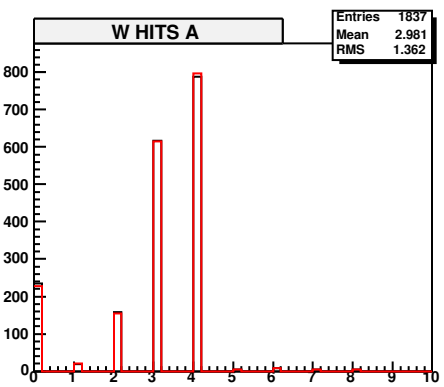


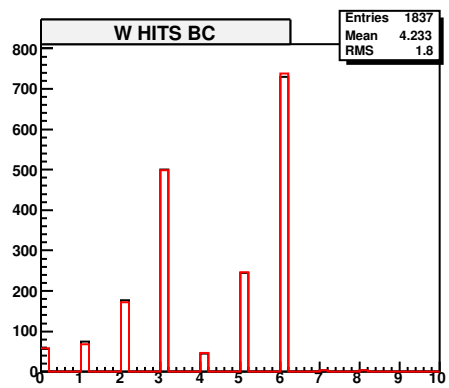


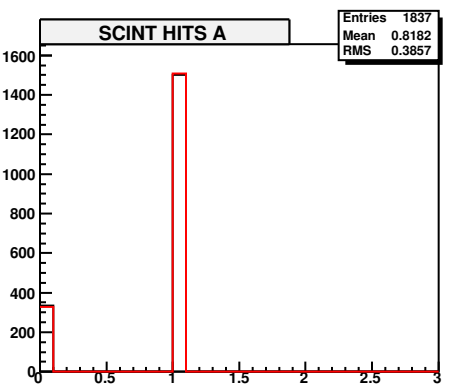


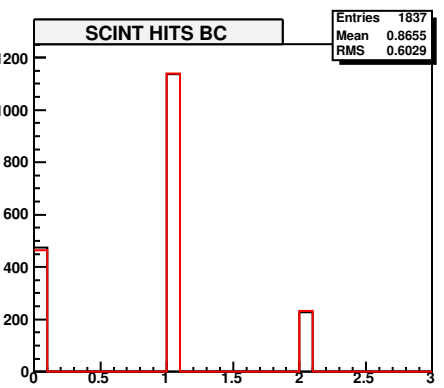




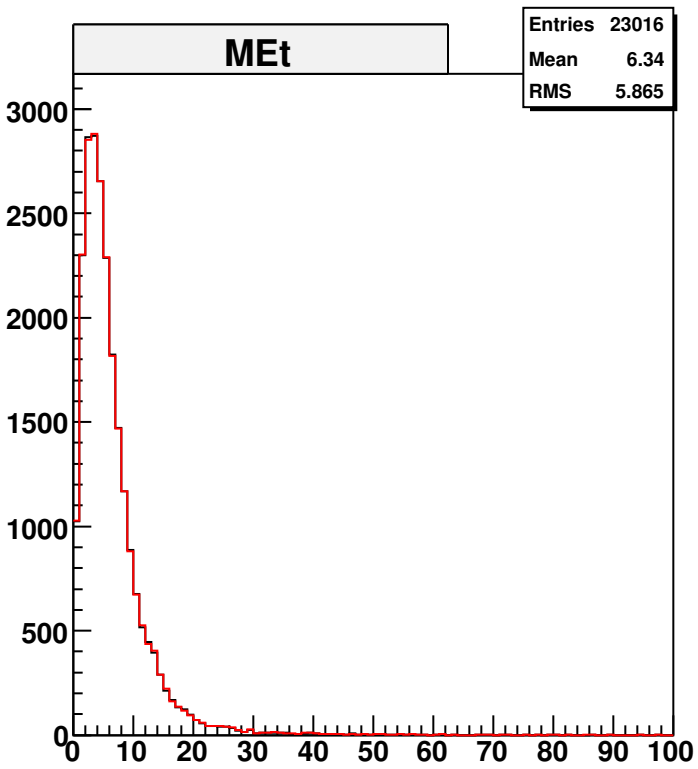


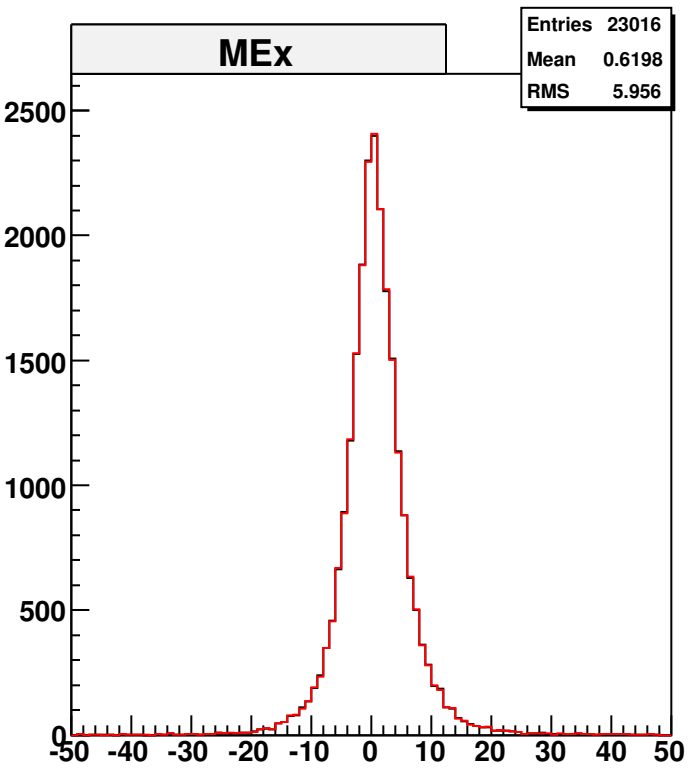


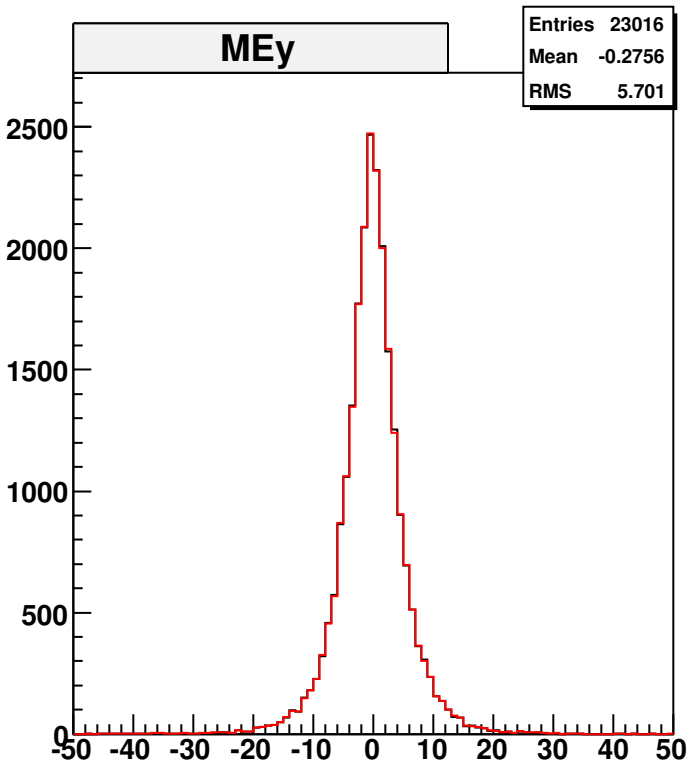




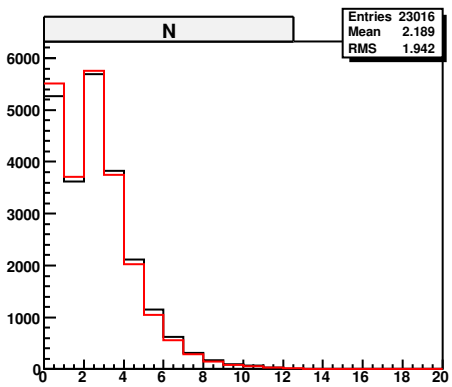
Muons (Unmatched)

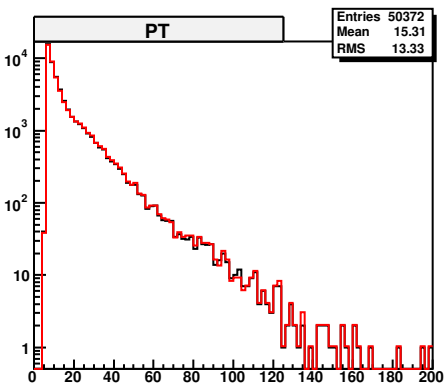

MEt
Entries 23016
Mean 6.34
RMS 5.865
3000
2500
2000
1500
1000
500
0
0 10 20 30 40 50 60 70 80 90 100

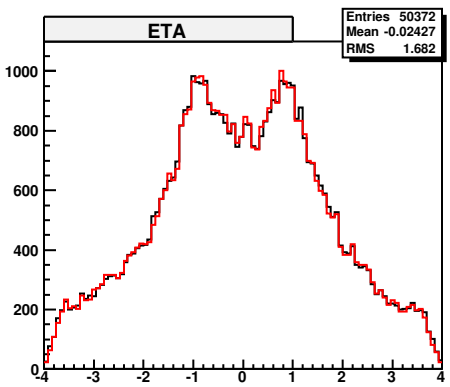

MEx
Entries 23016
Mean 0.6198
RMS 5.956
2500
2000
1500
1000
500
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

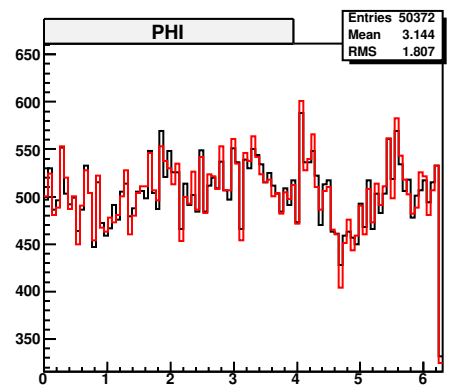

MEy
Entries 23016
Mean -0.2756
RMS 5.701
2500
2000
1500
1000
500
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

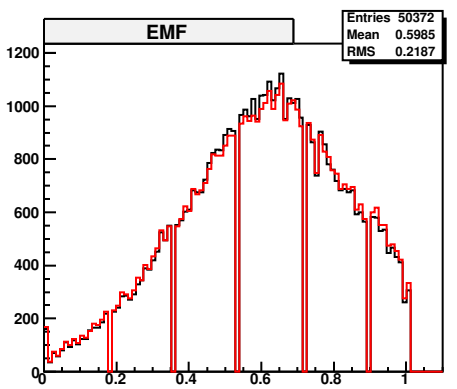
Met (No cuts)

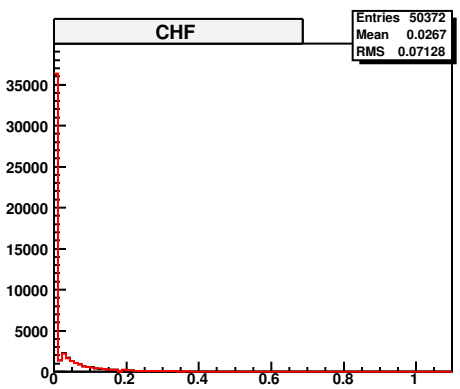


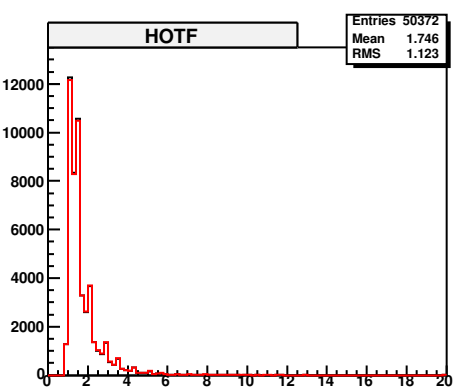


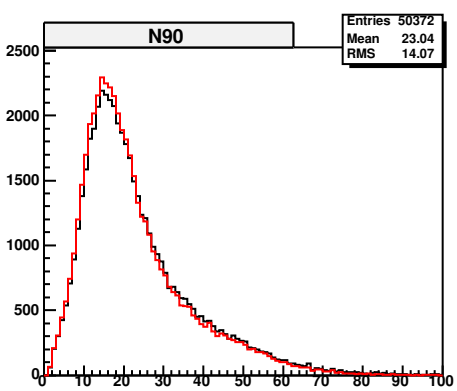


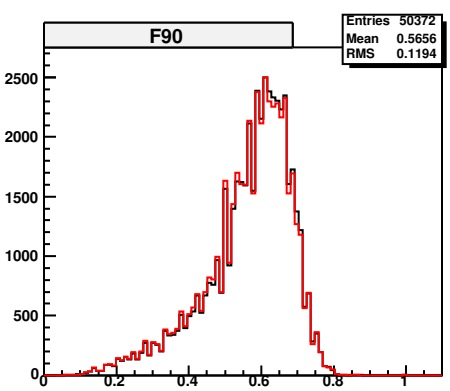


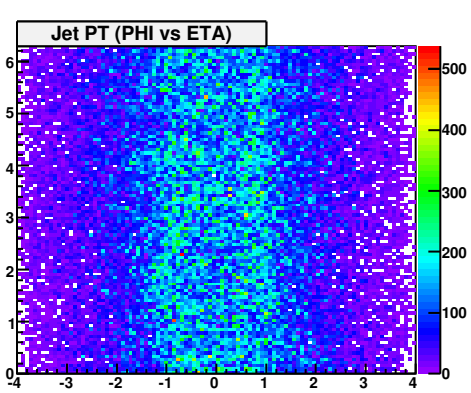




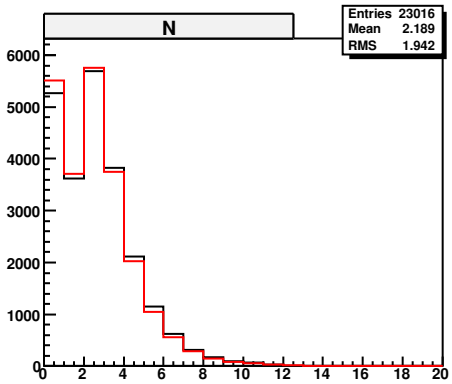


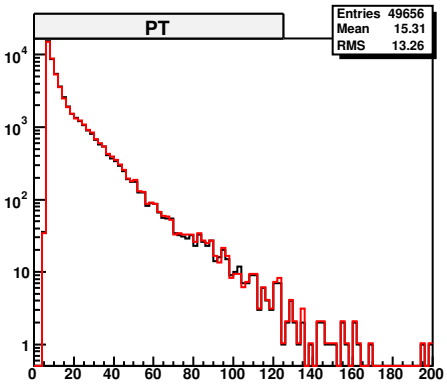


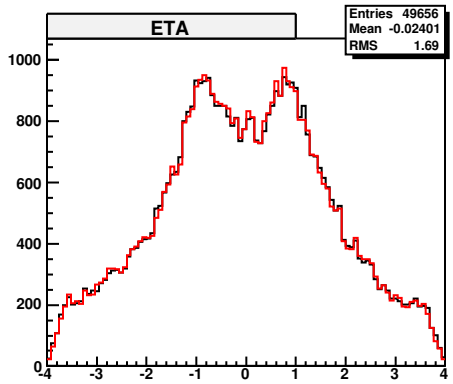


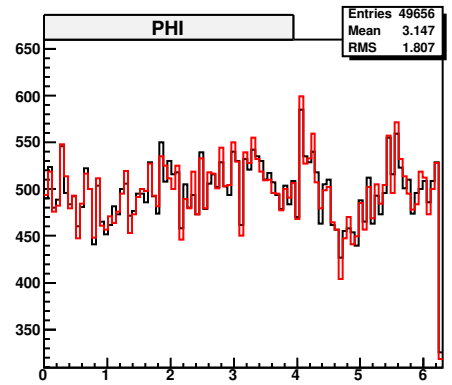


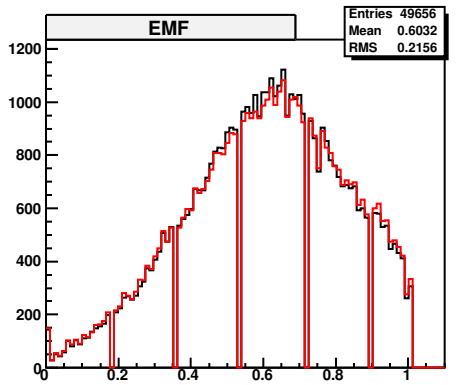
Jets (Cone R 0.7 (no cuts))

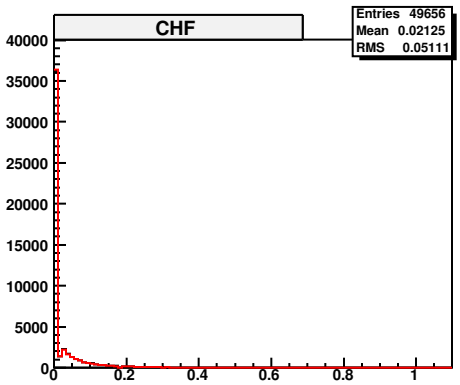


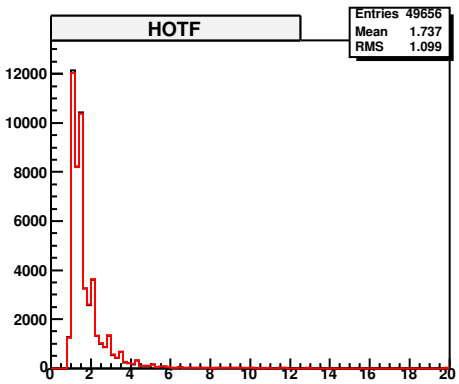


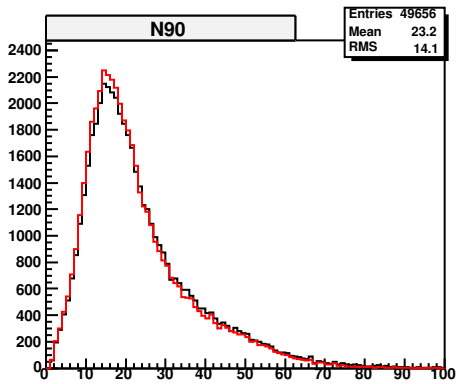


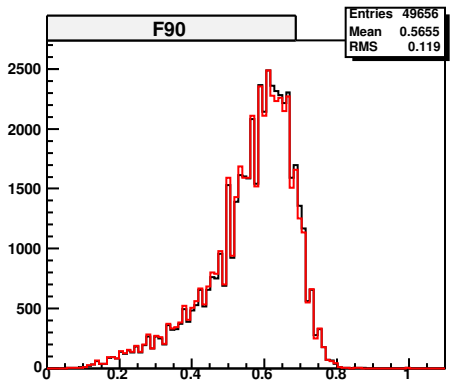


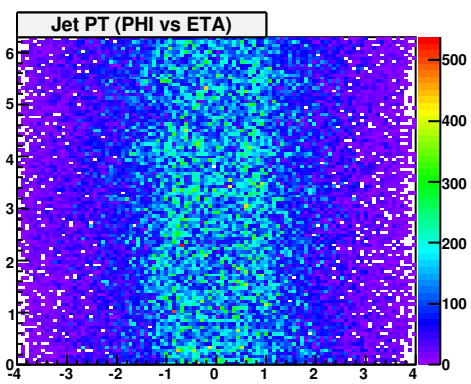




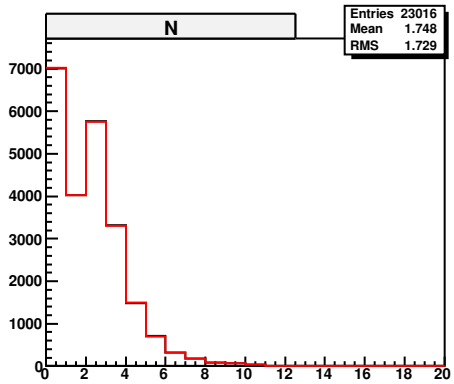


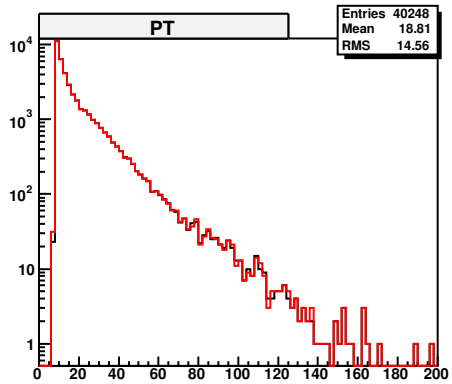


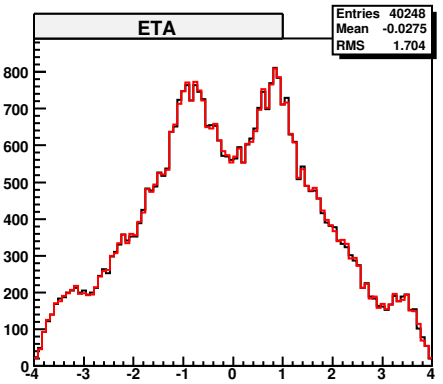


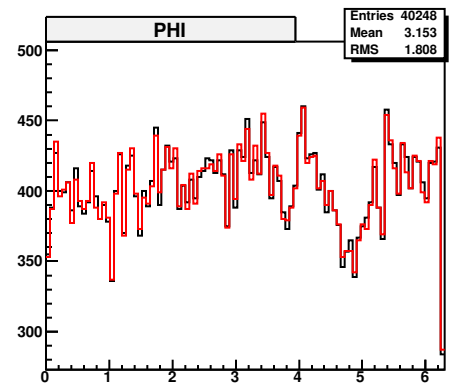


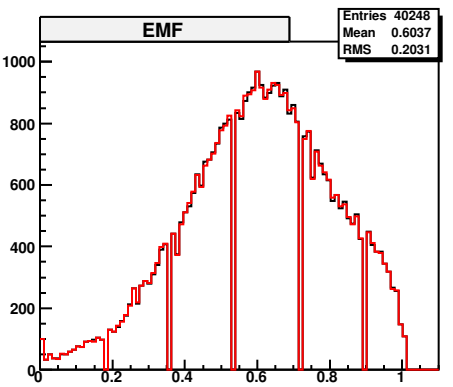
Jets (Cone R 0.7 (standard cuts))

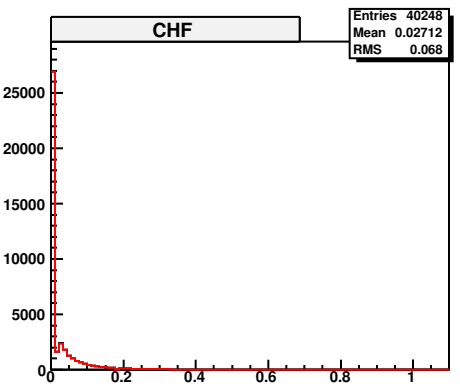


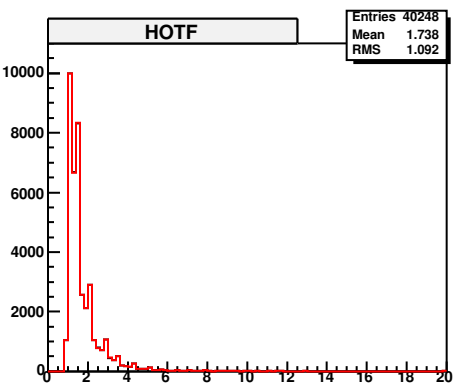


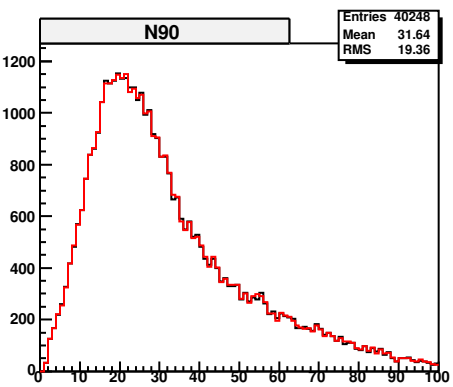


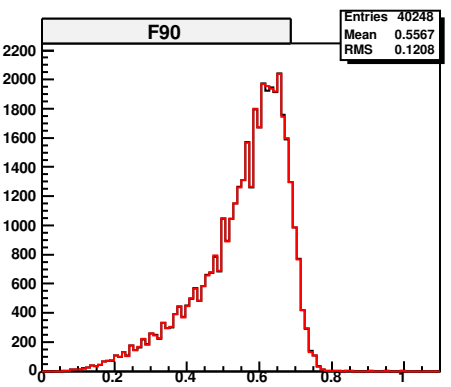


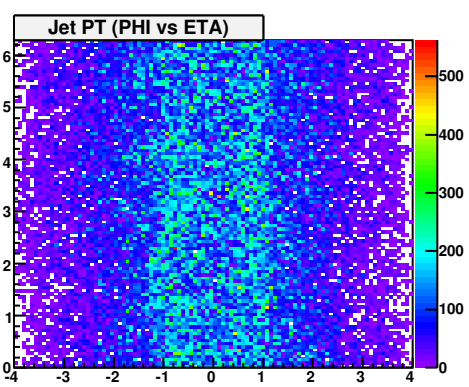




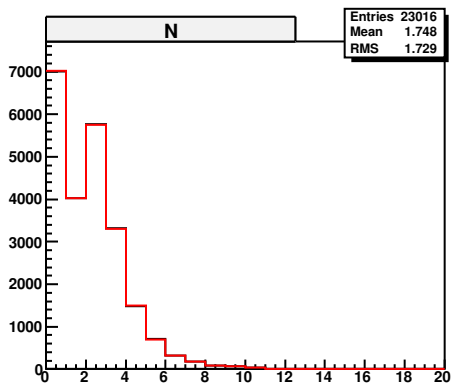


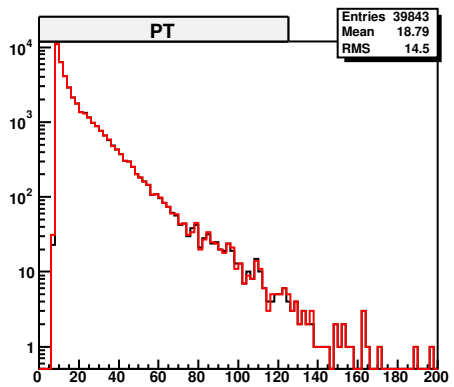


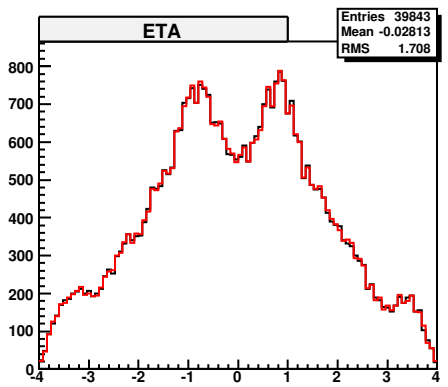


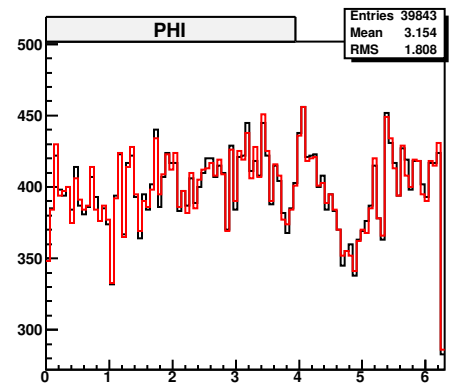


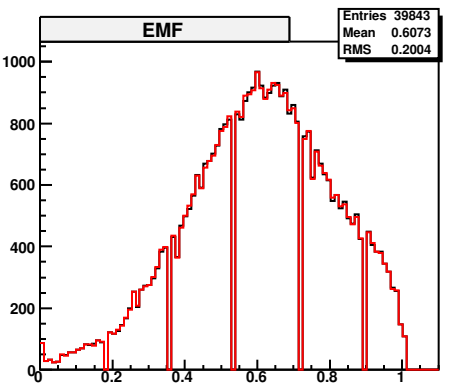
Jets (KT D 1 (no cuts))

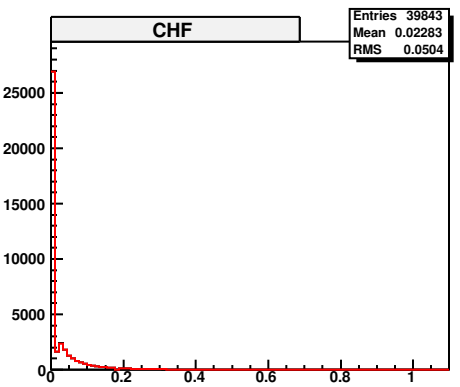


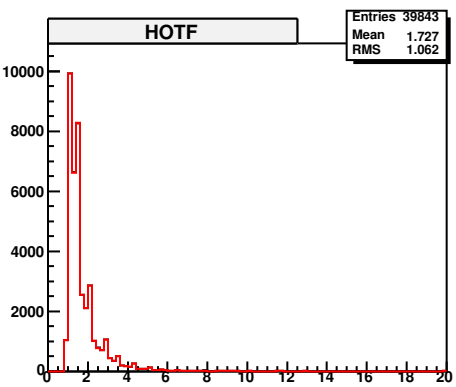


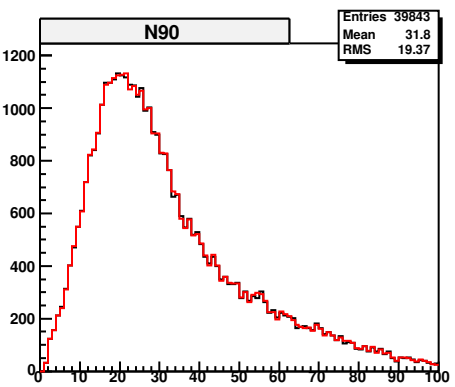


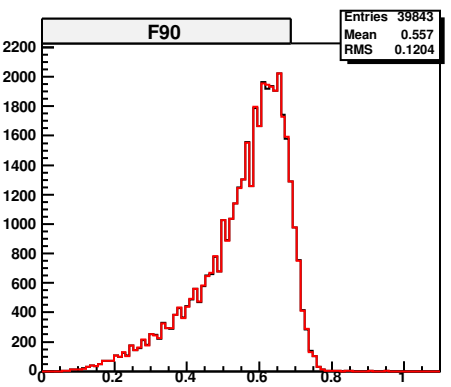


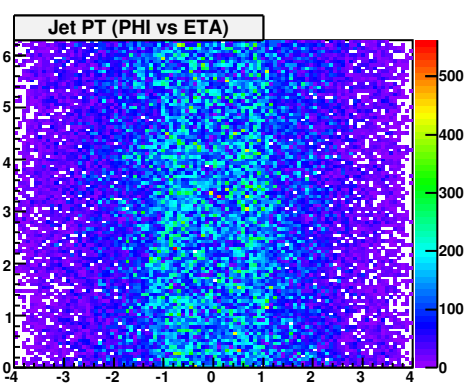




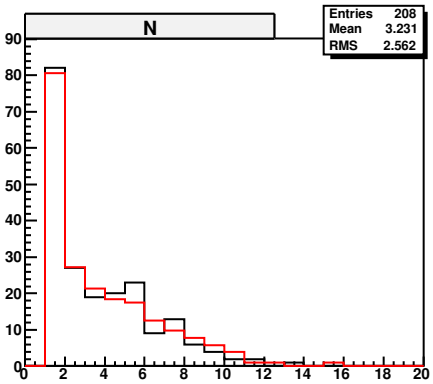


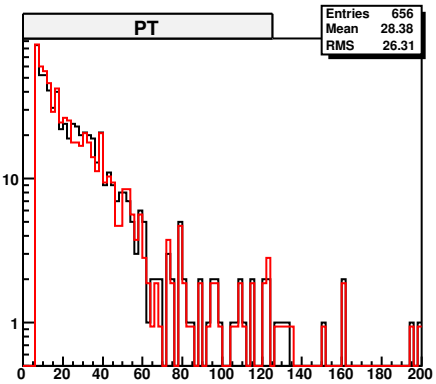


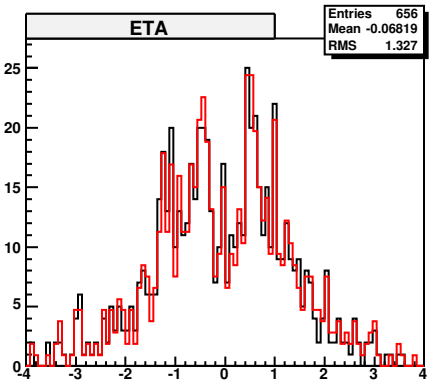


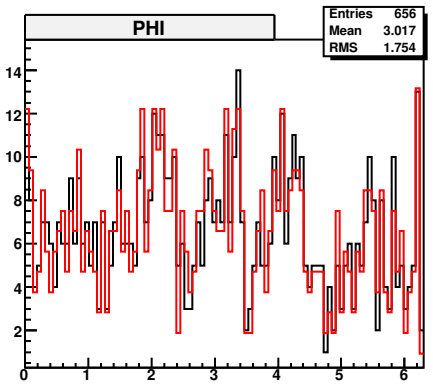


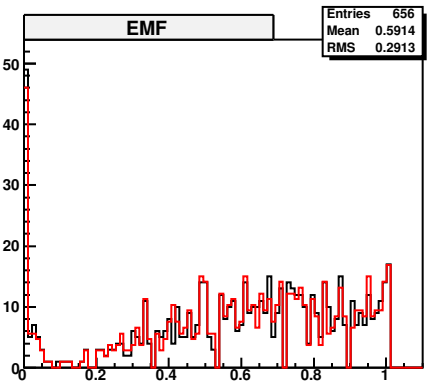
Jets (KT D 1 (standard cuts))

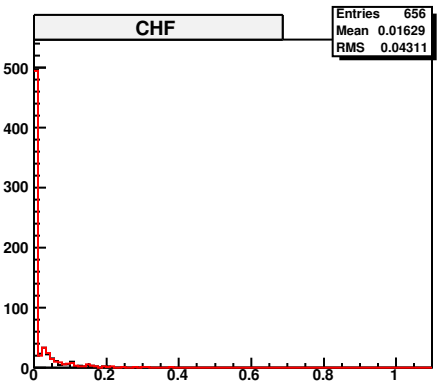


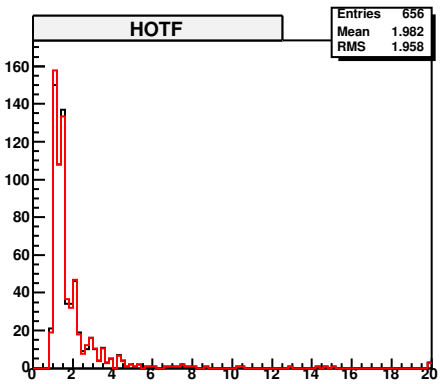


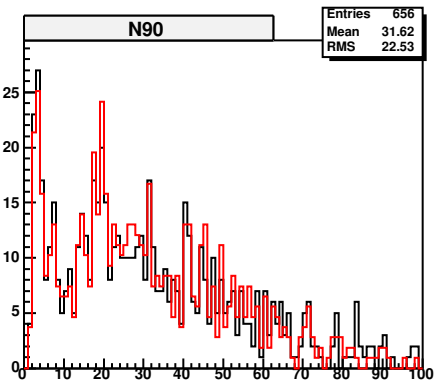


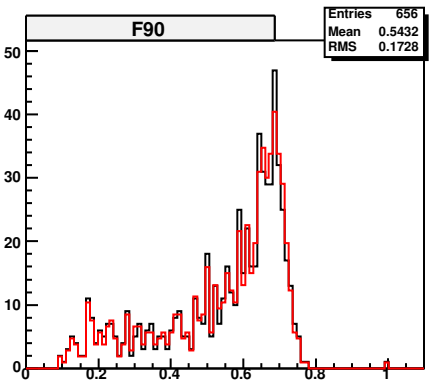


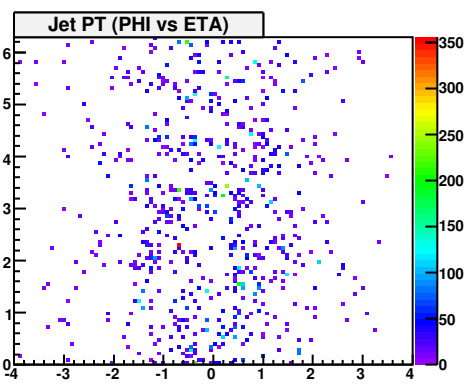




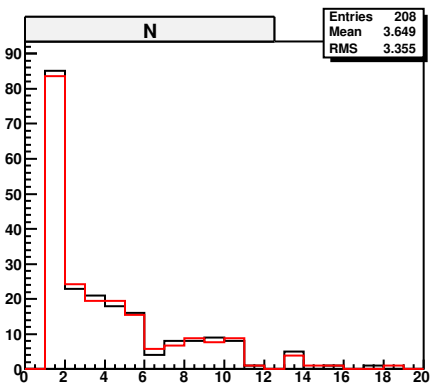


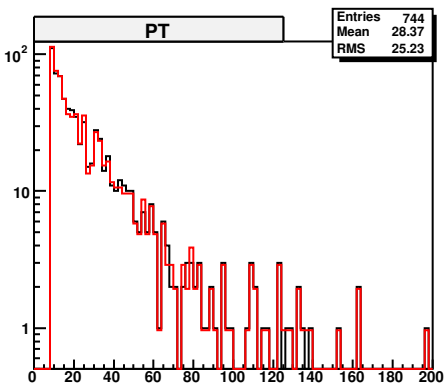


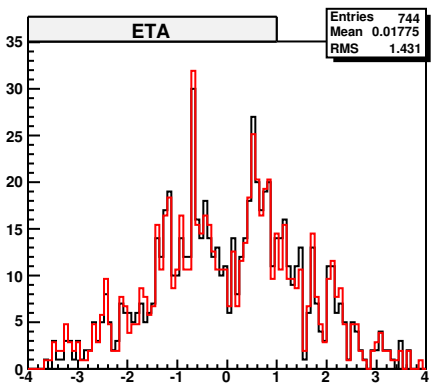


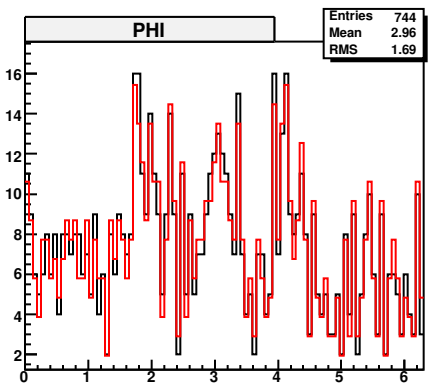


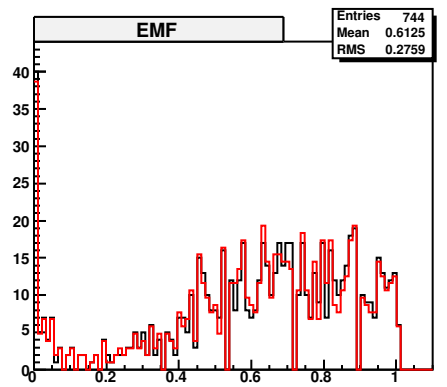
Jets (Cone R 0.7 (standard cuts, MET>30))

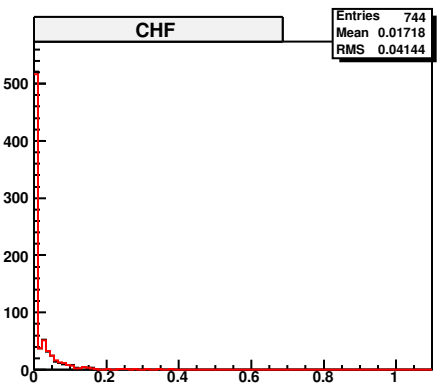


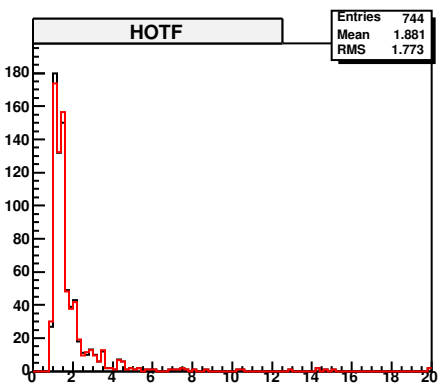


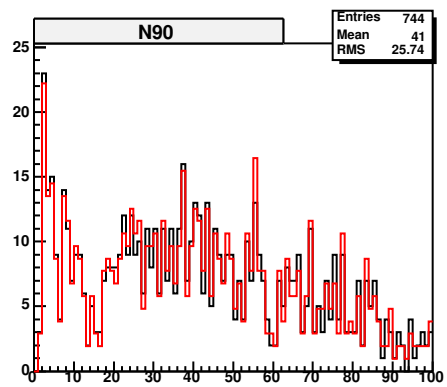


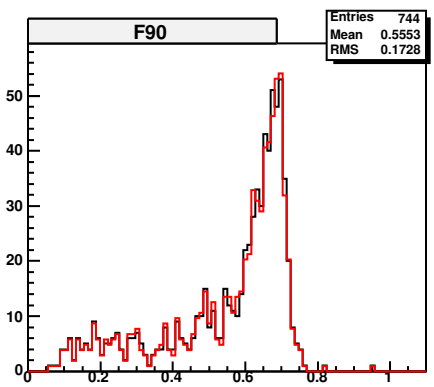


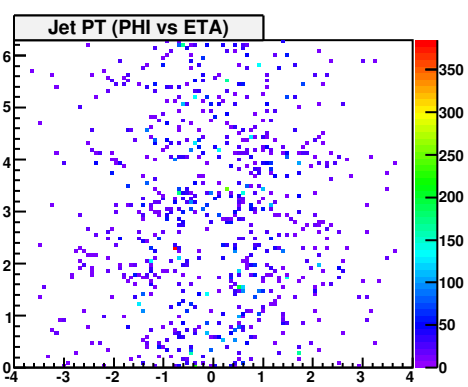




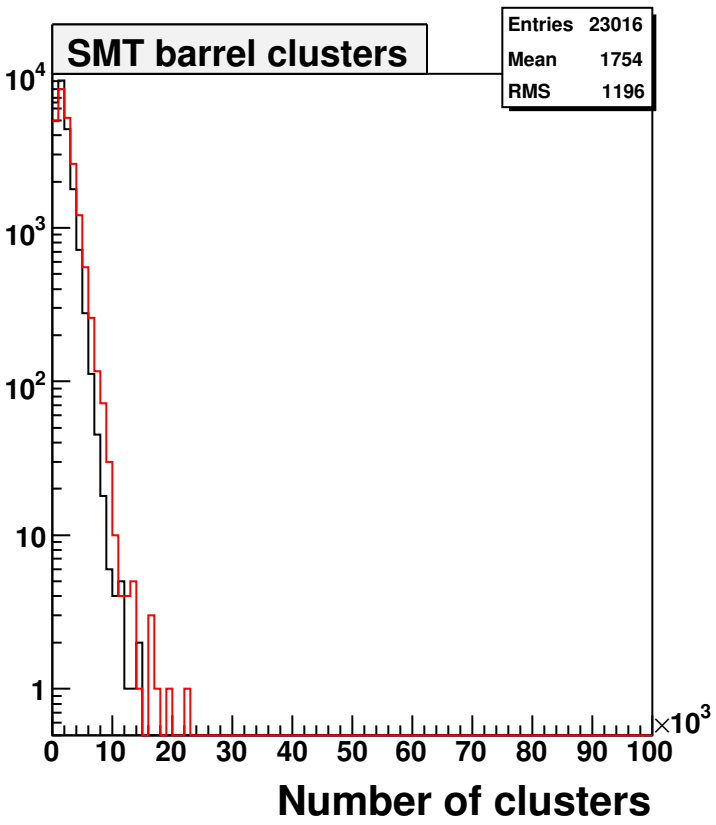


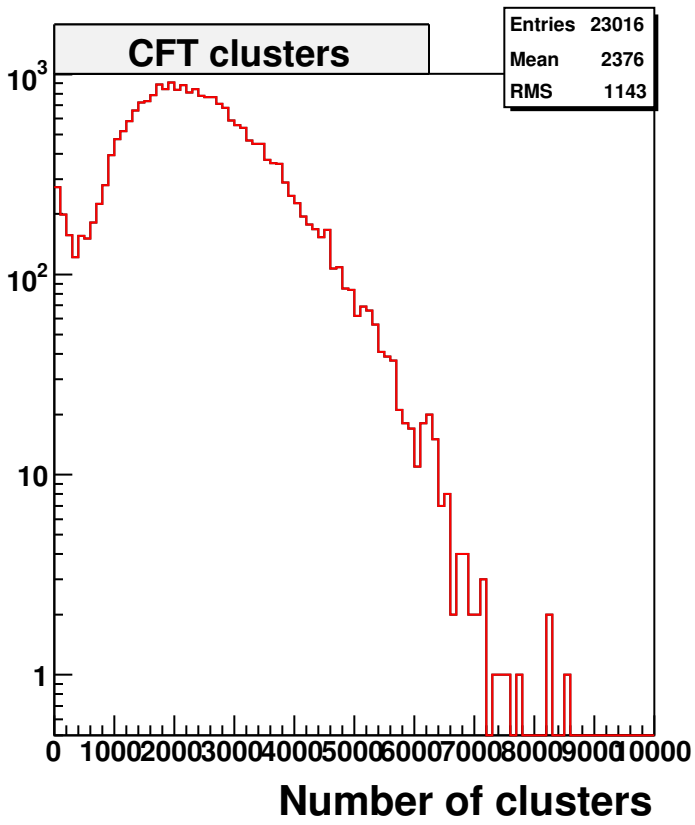


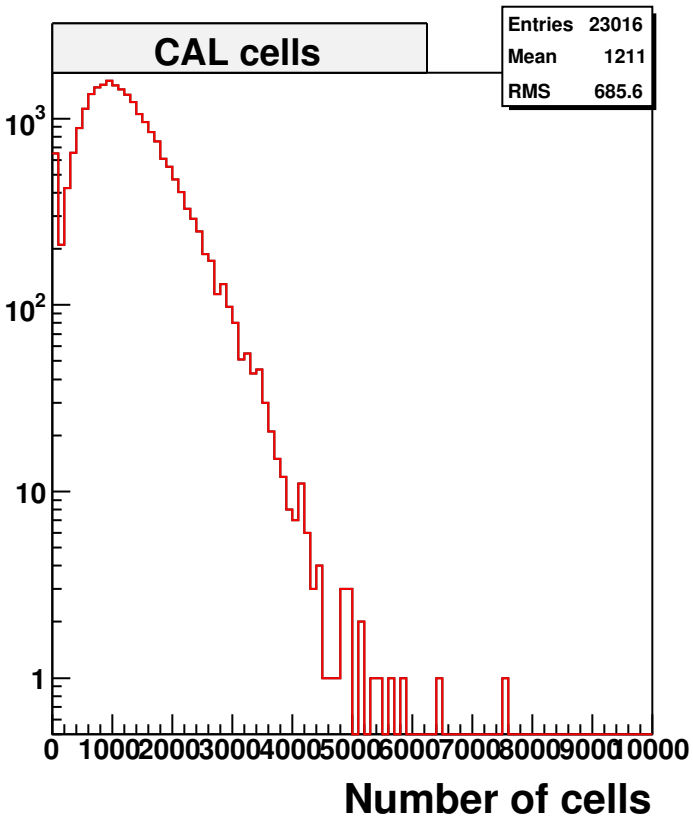


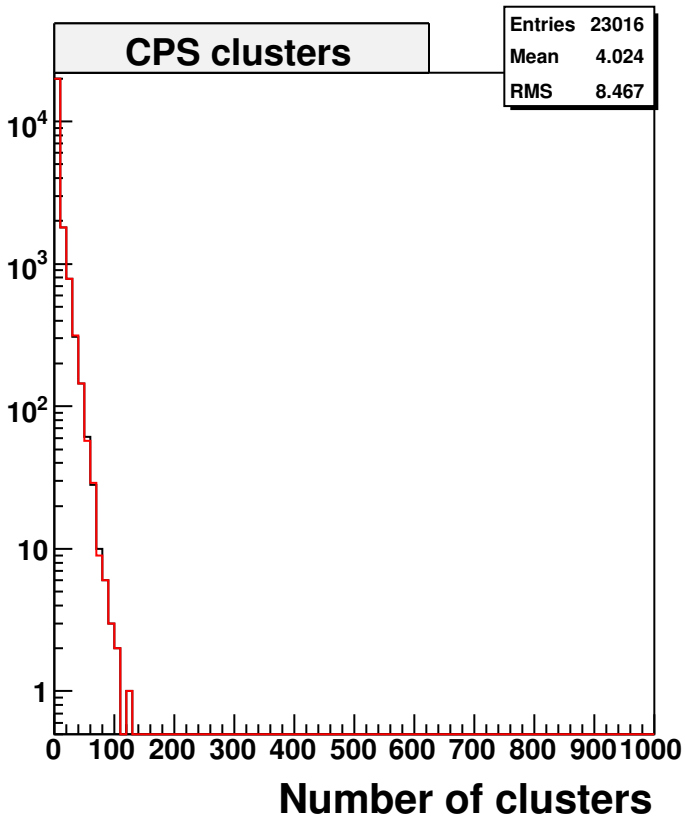


Jets (KT D 1 (standard cuts, MET>30))

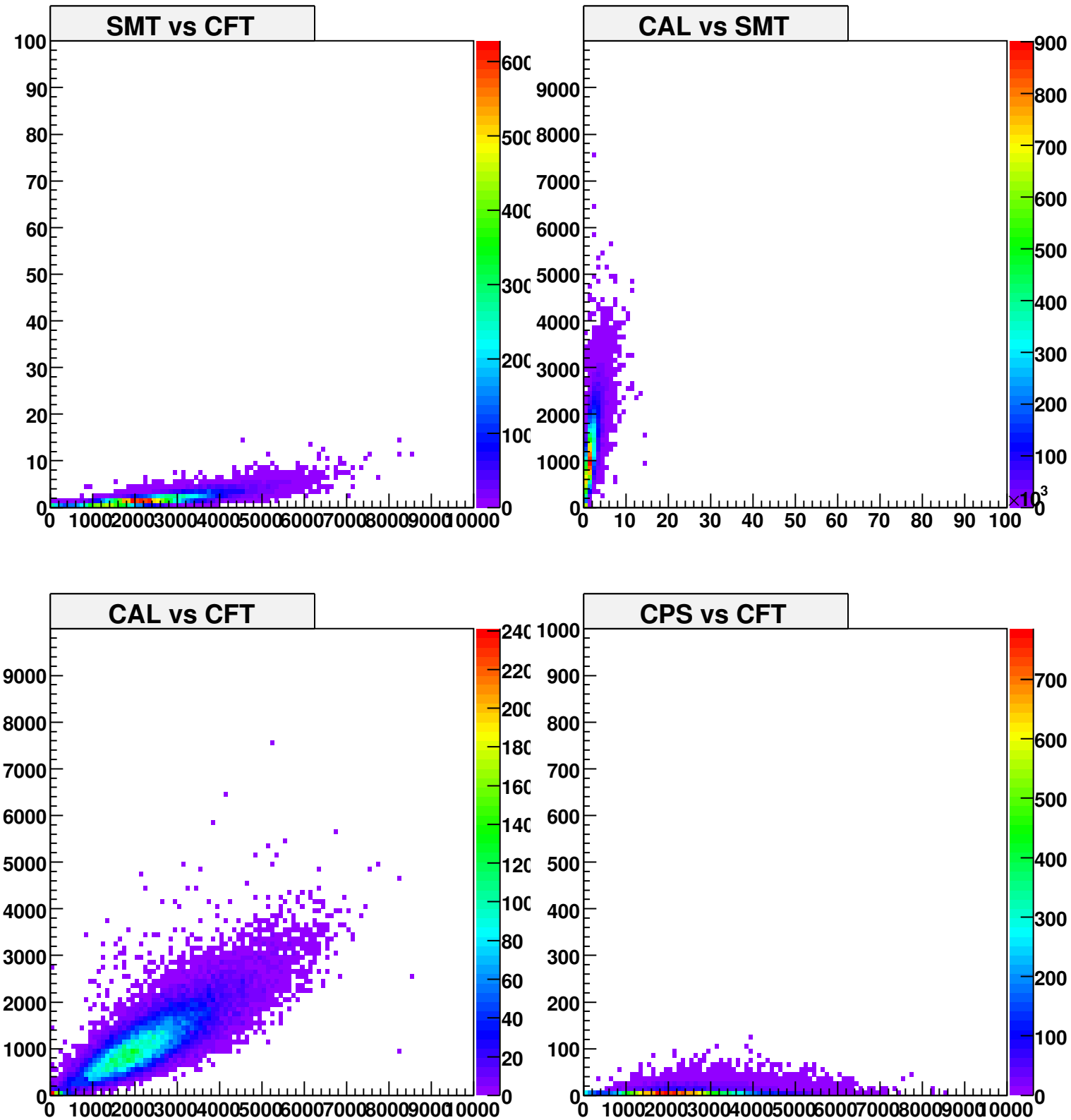




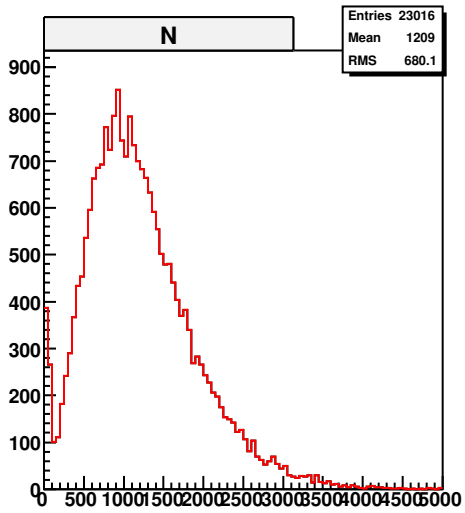


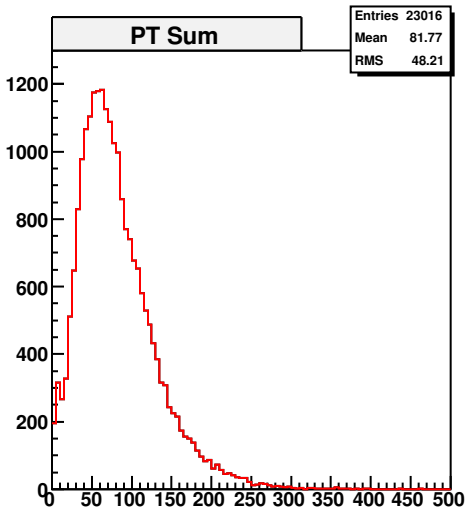


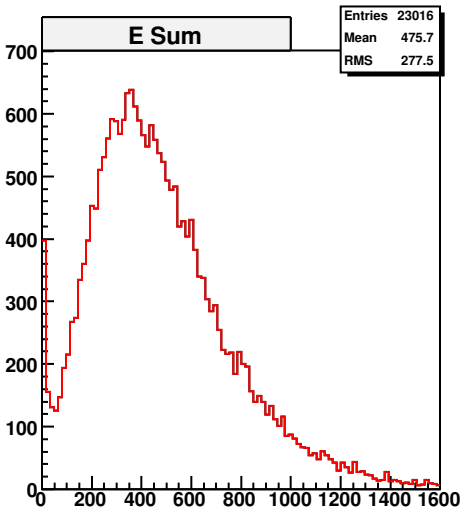
Detector Occupancy (Detector)

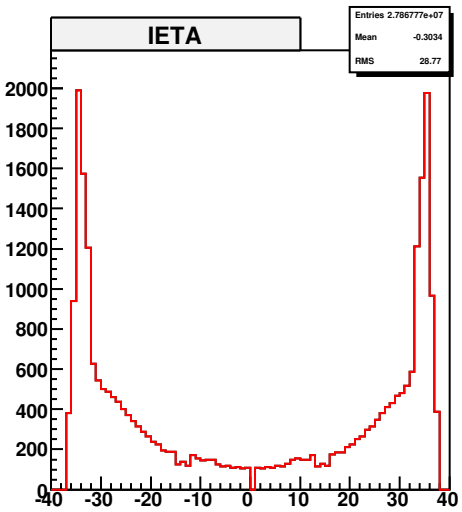


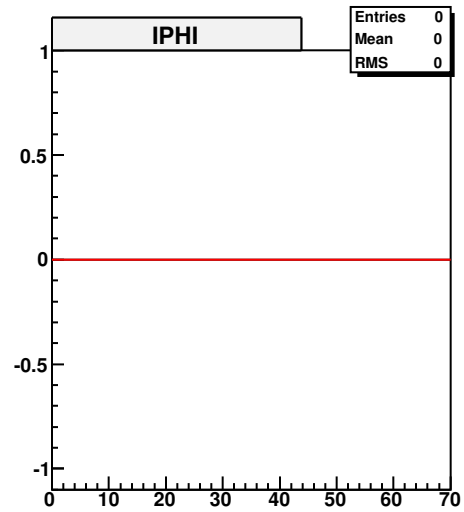
Detector Occupancy (Detector)

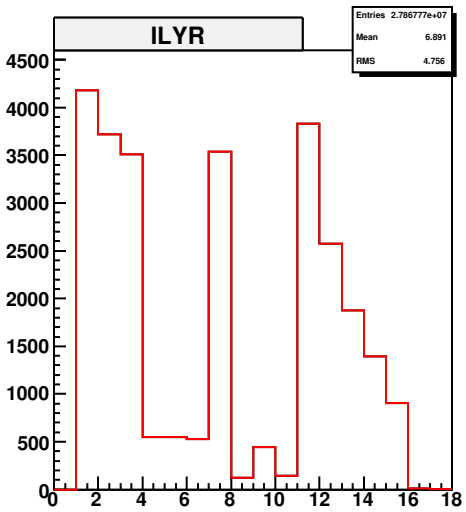


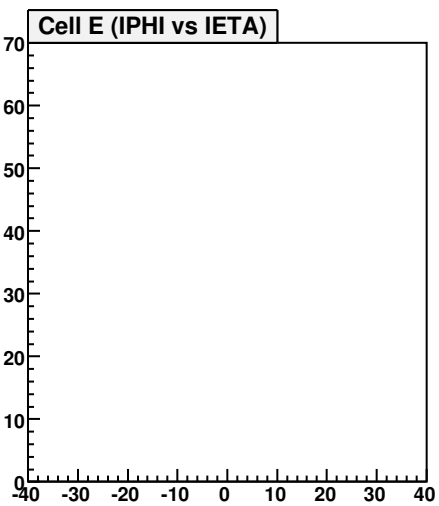


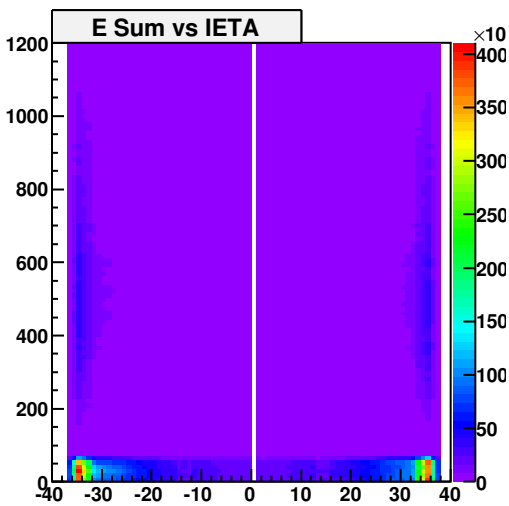


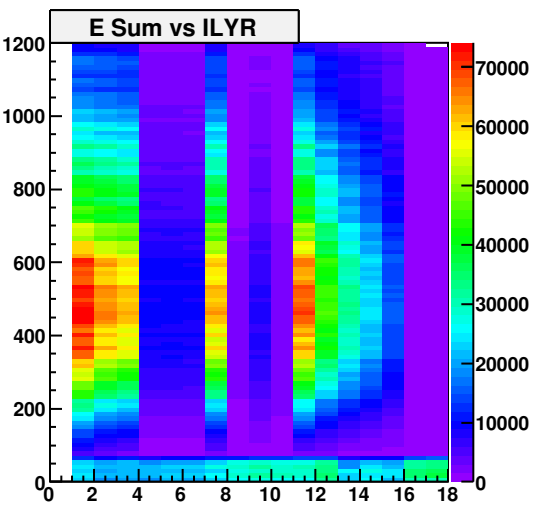




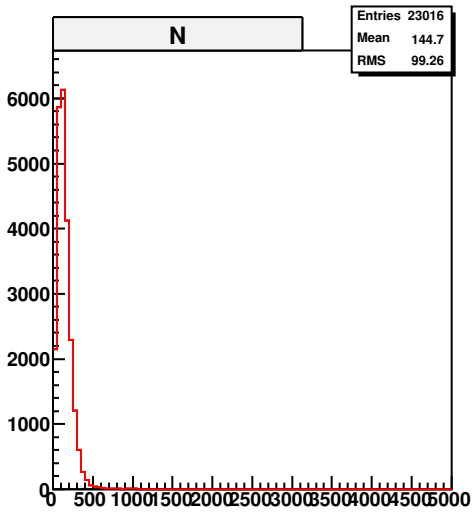


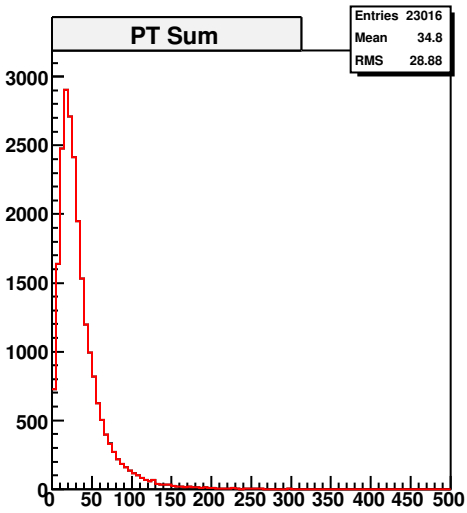


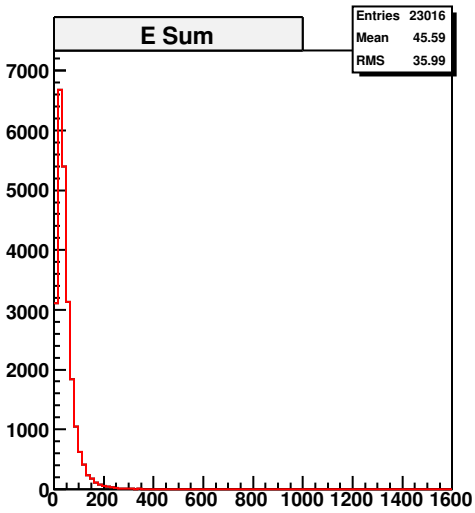


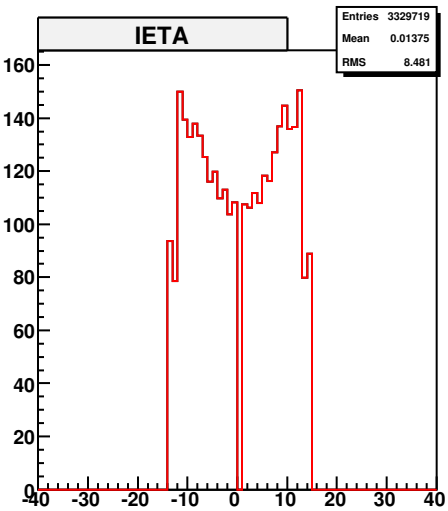


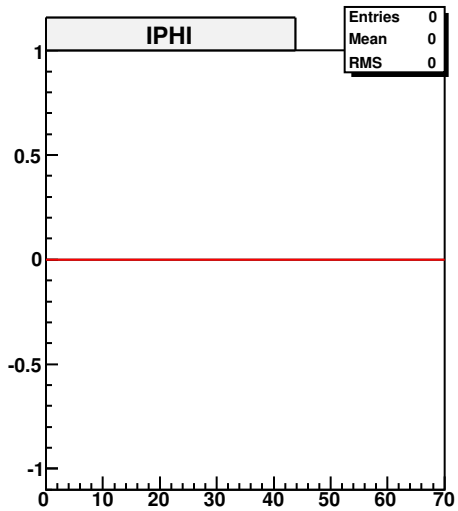
Calorimeter (All cells)

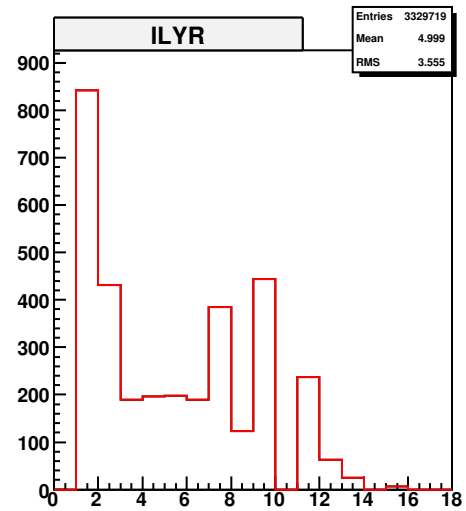


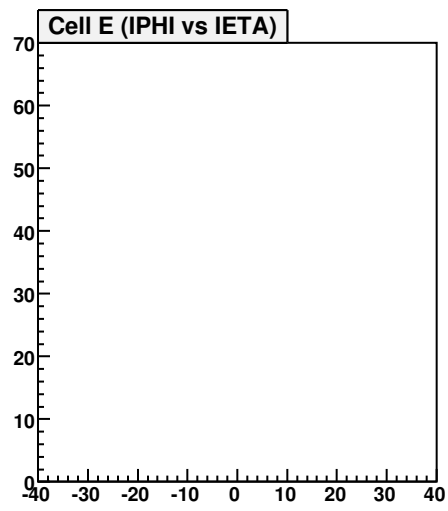


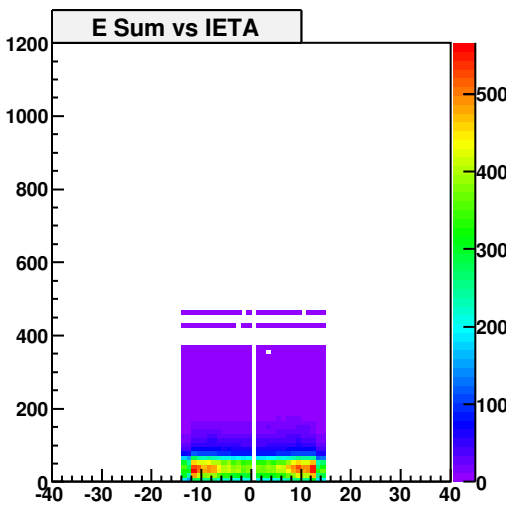


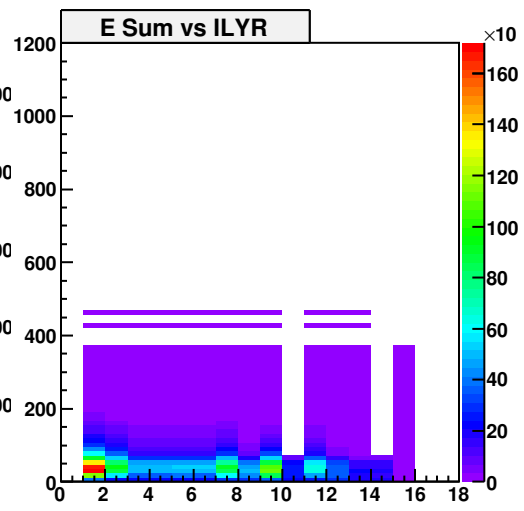




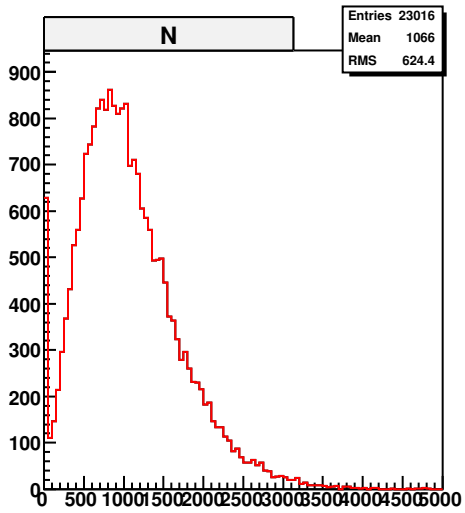


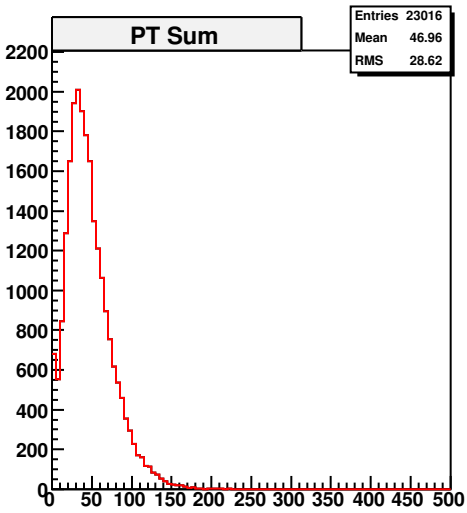


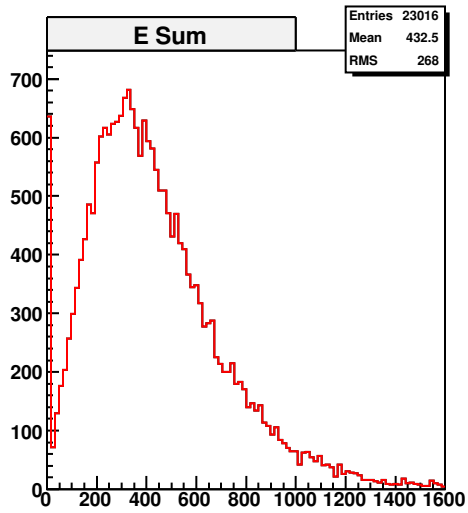


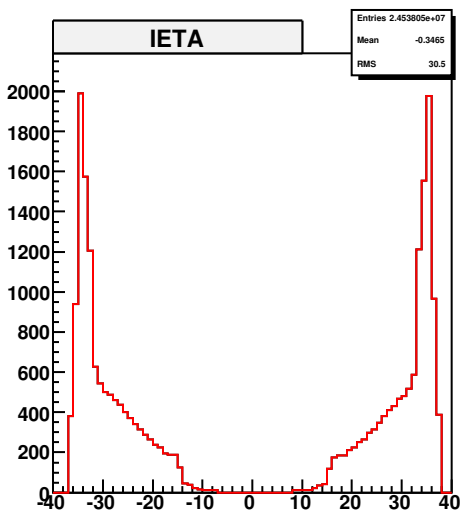


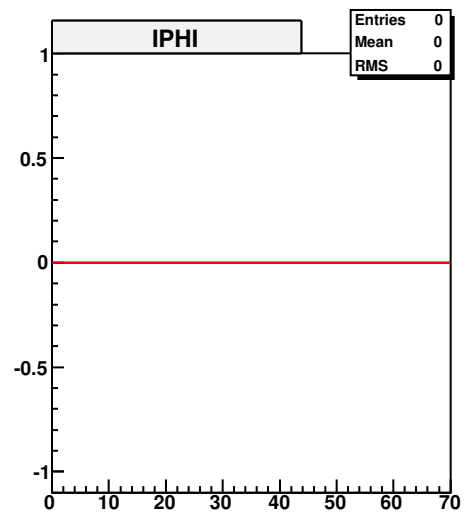
Calorimeter (All CC cells)

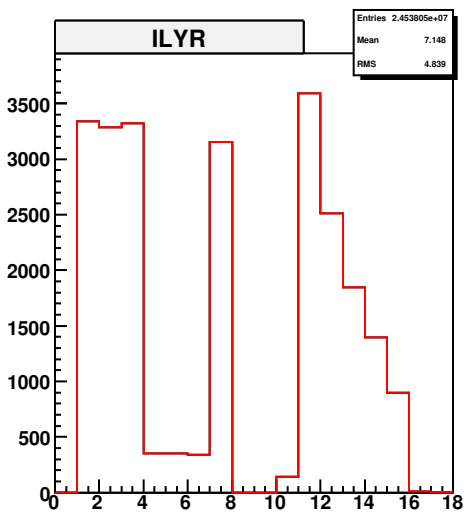


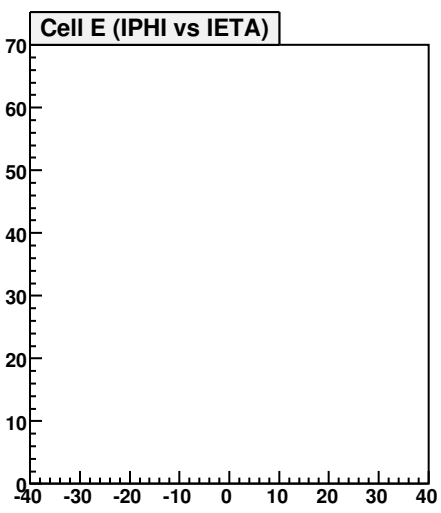


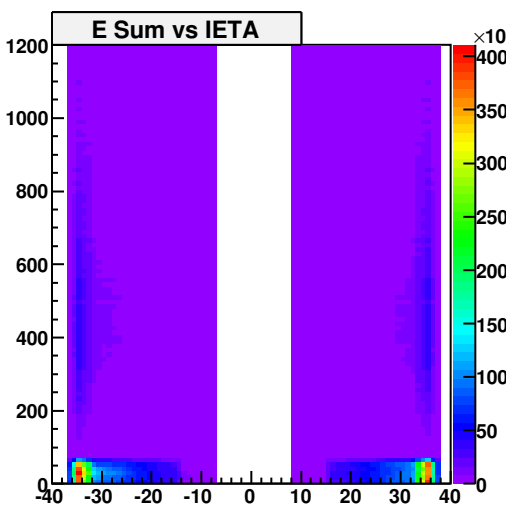


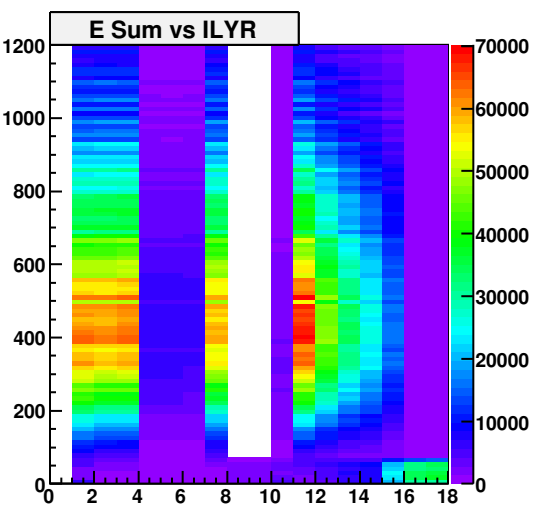




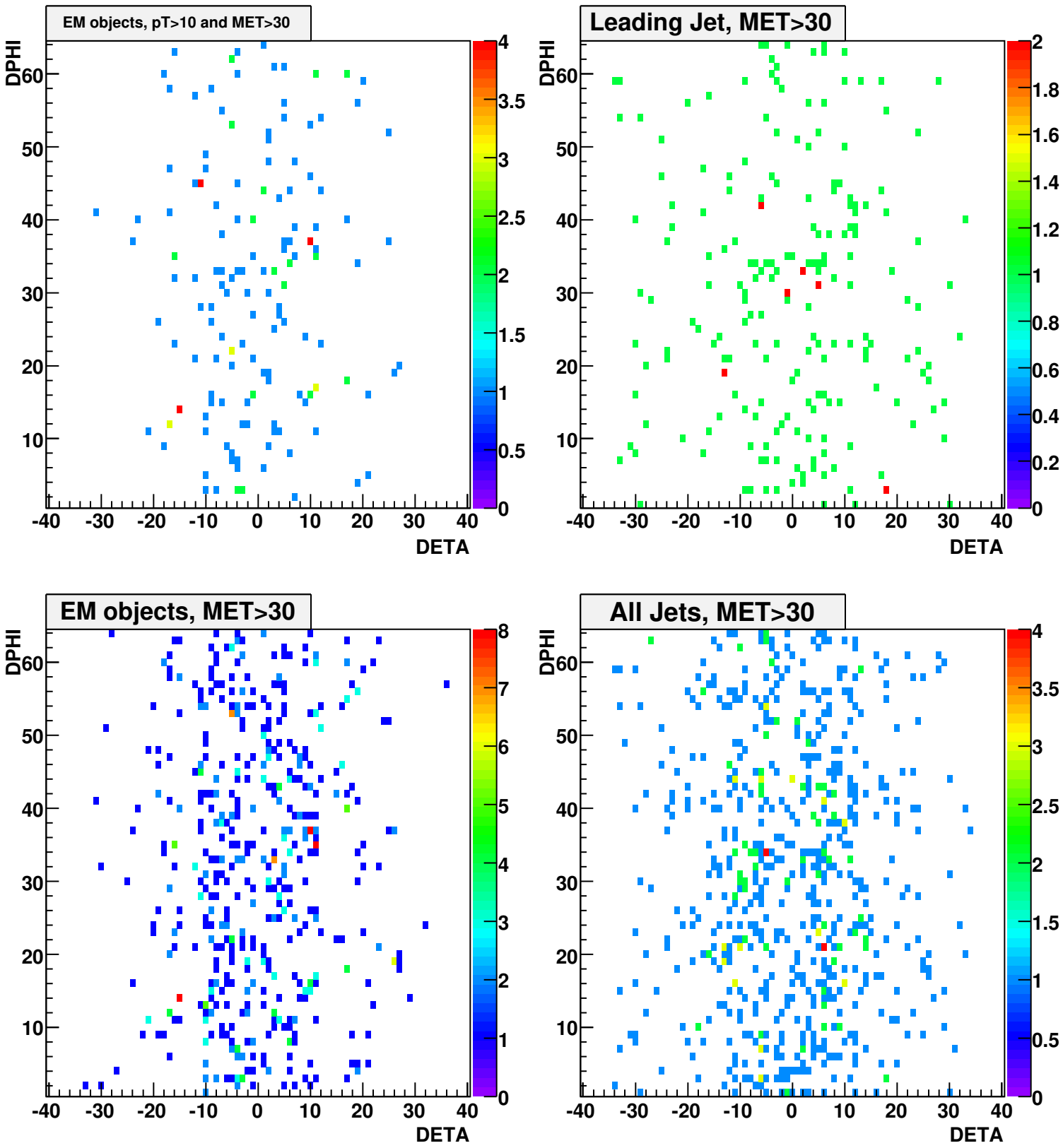




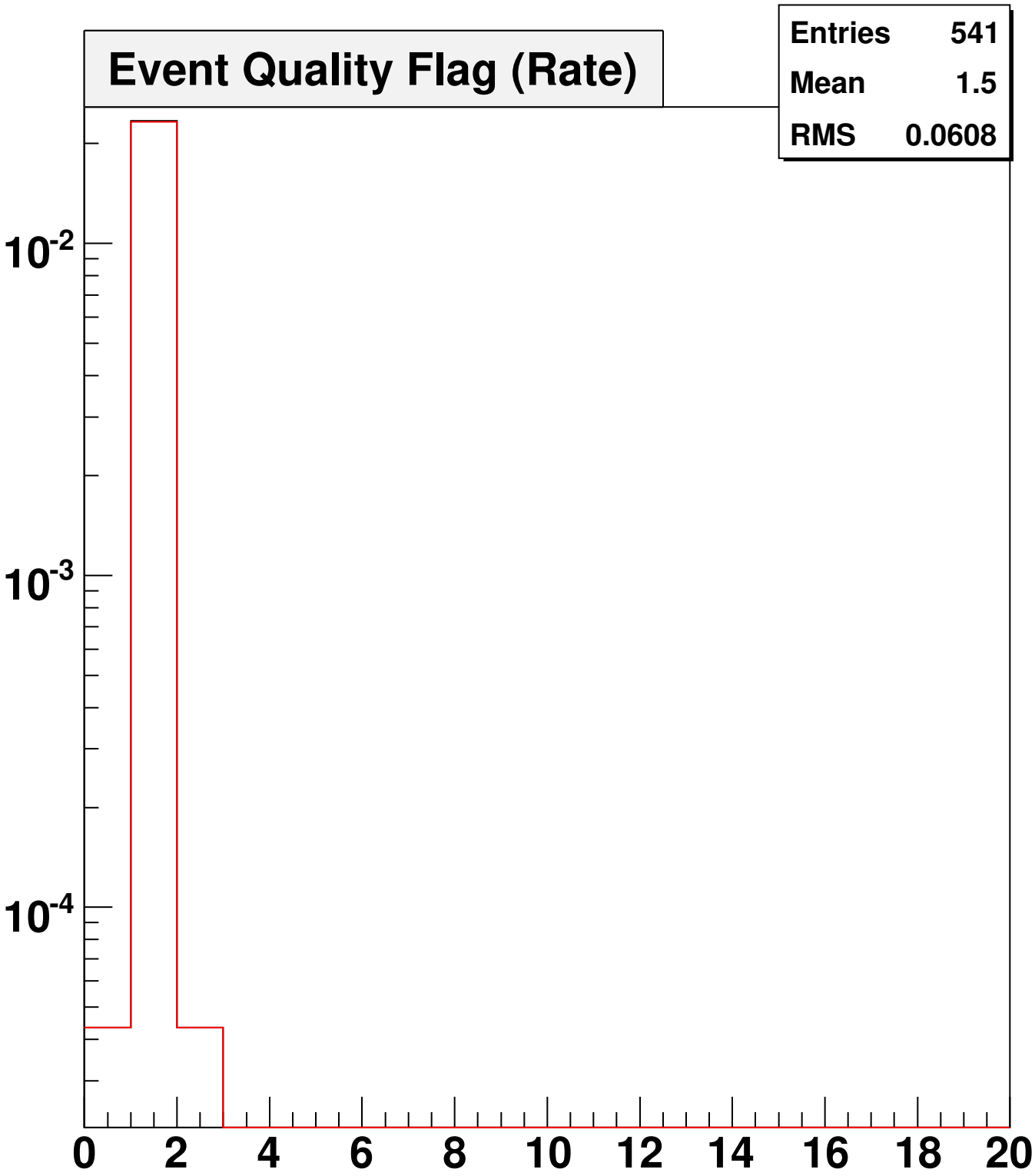


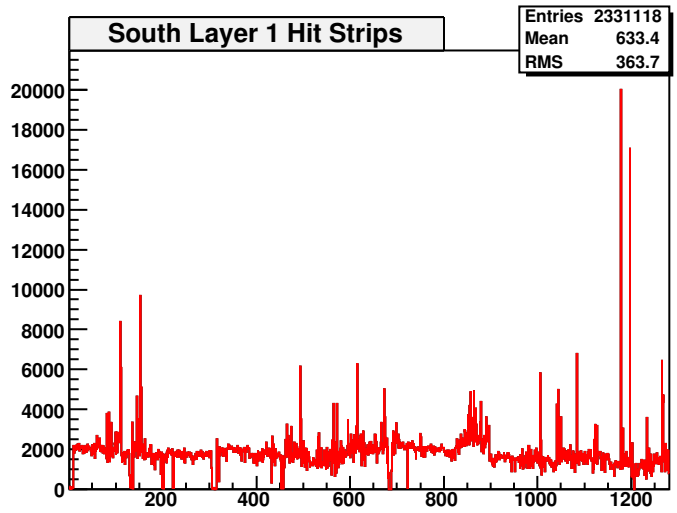


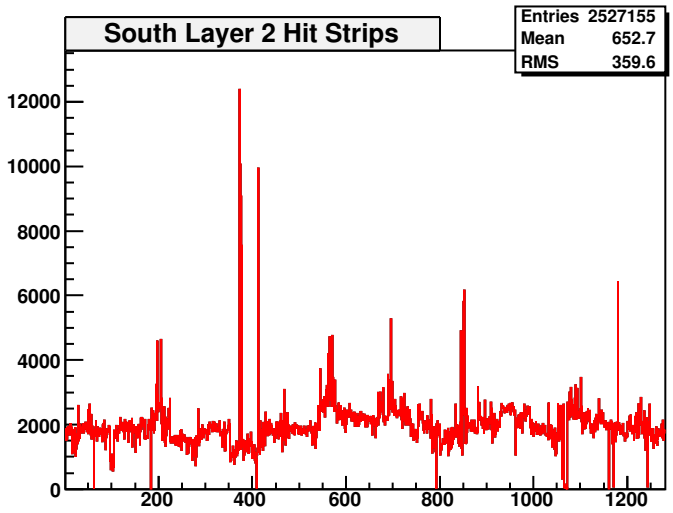
Calorimeter (All EC cells)

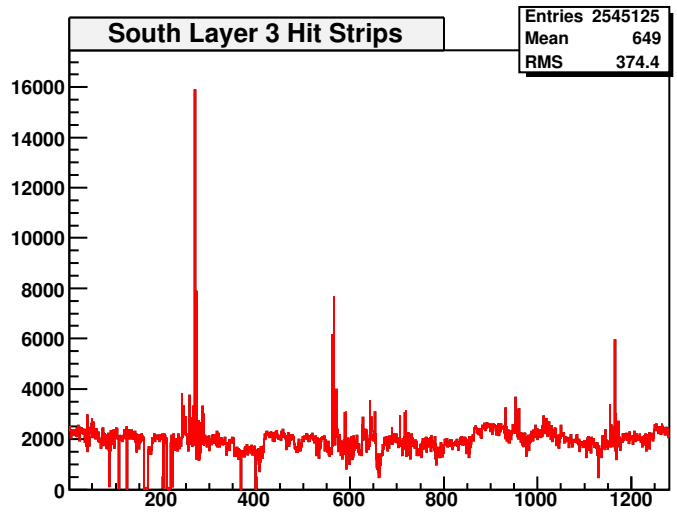


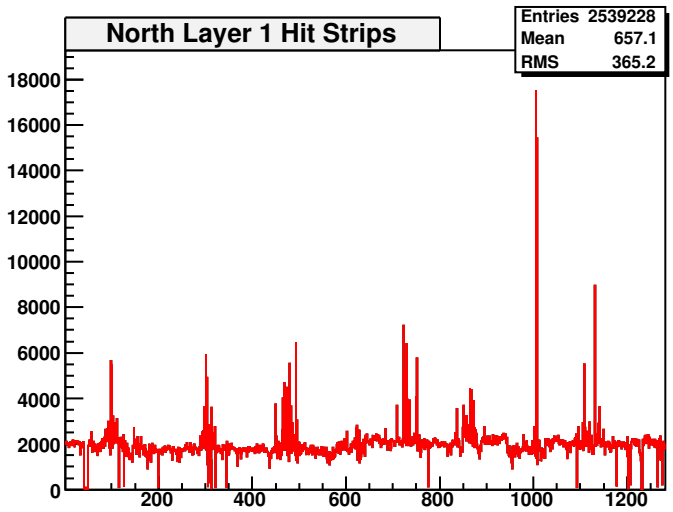
Cal Objects with MET>30 (All cells)

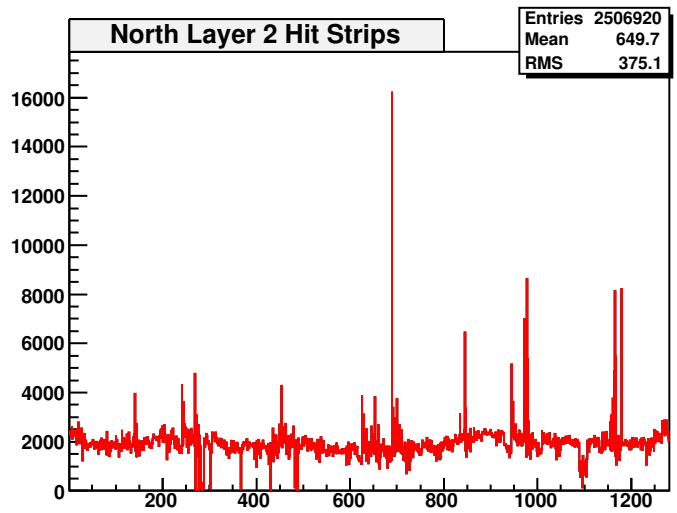

Event Quality Flag (Rate)
Entries 541
Mean 1.5
RMS 0.0608
10-2
10-3
10-4
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

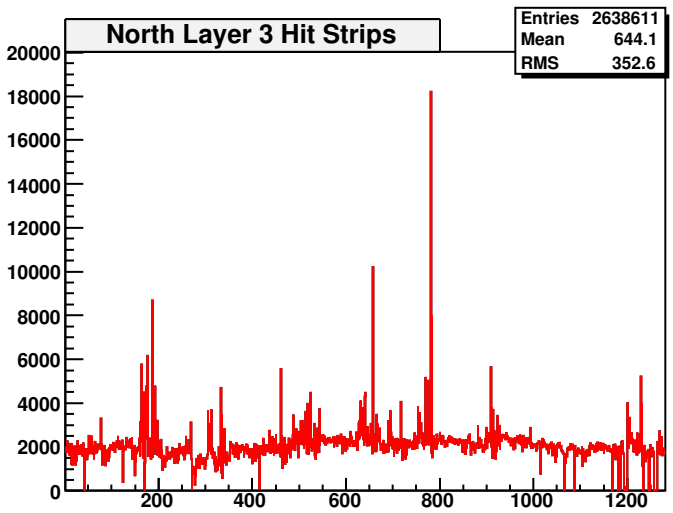




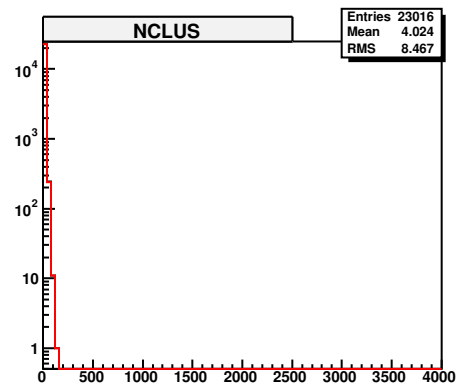


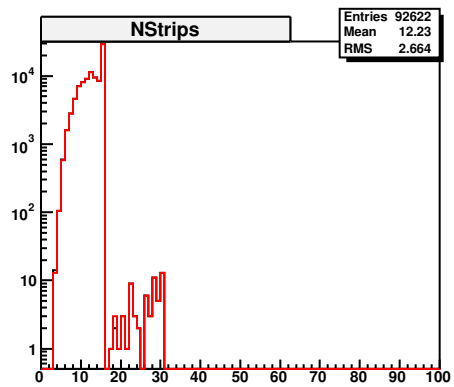


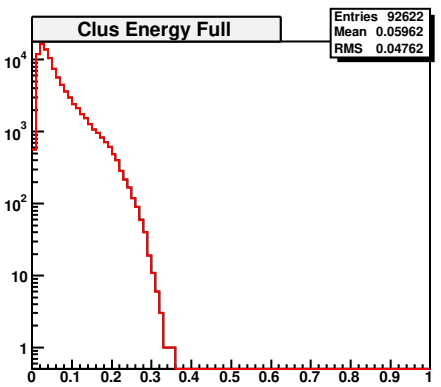


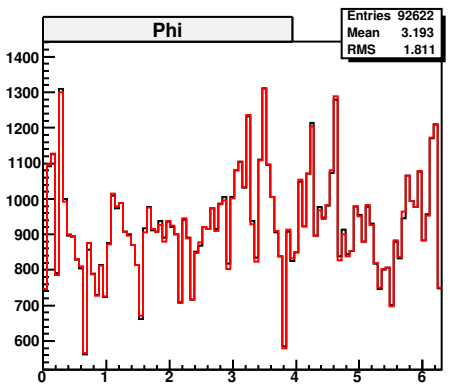


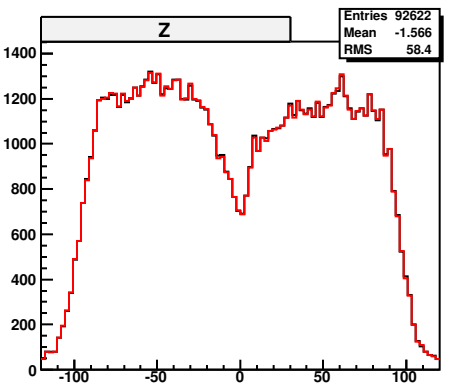
CPS Hit Strips (All Clusters)

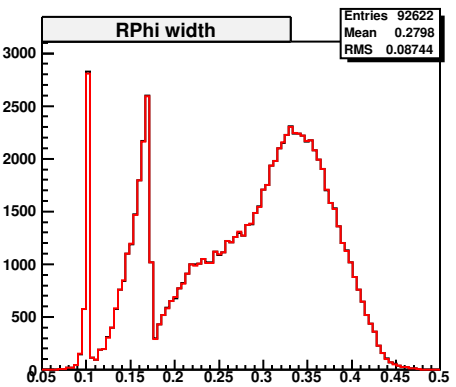


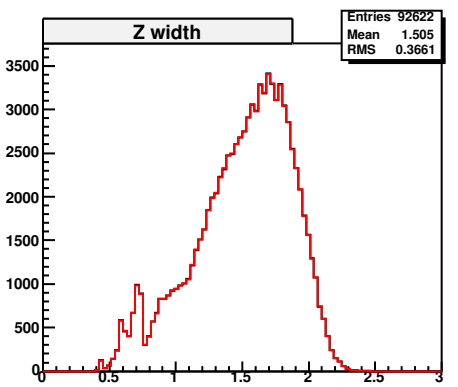


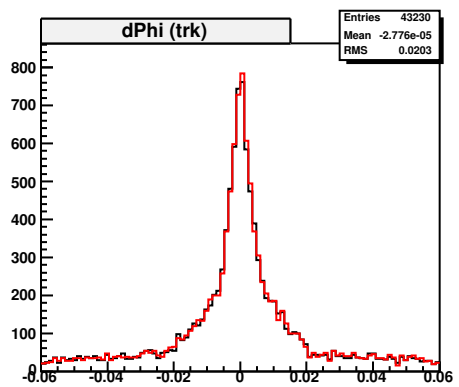


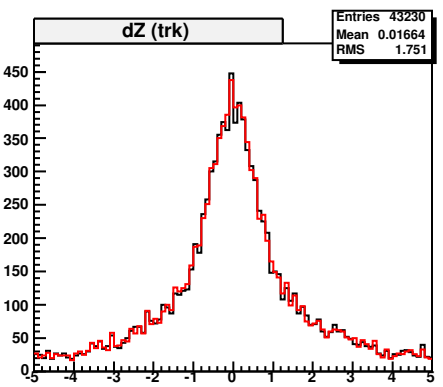


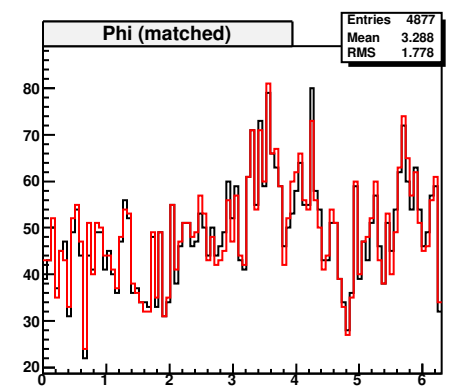


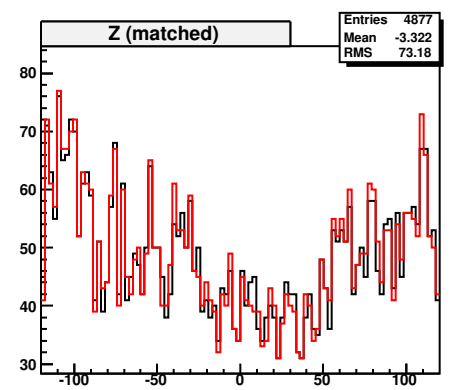




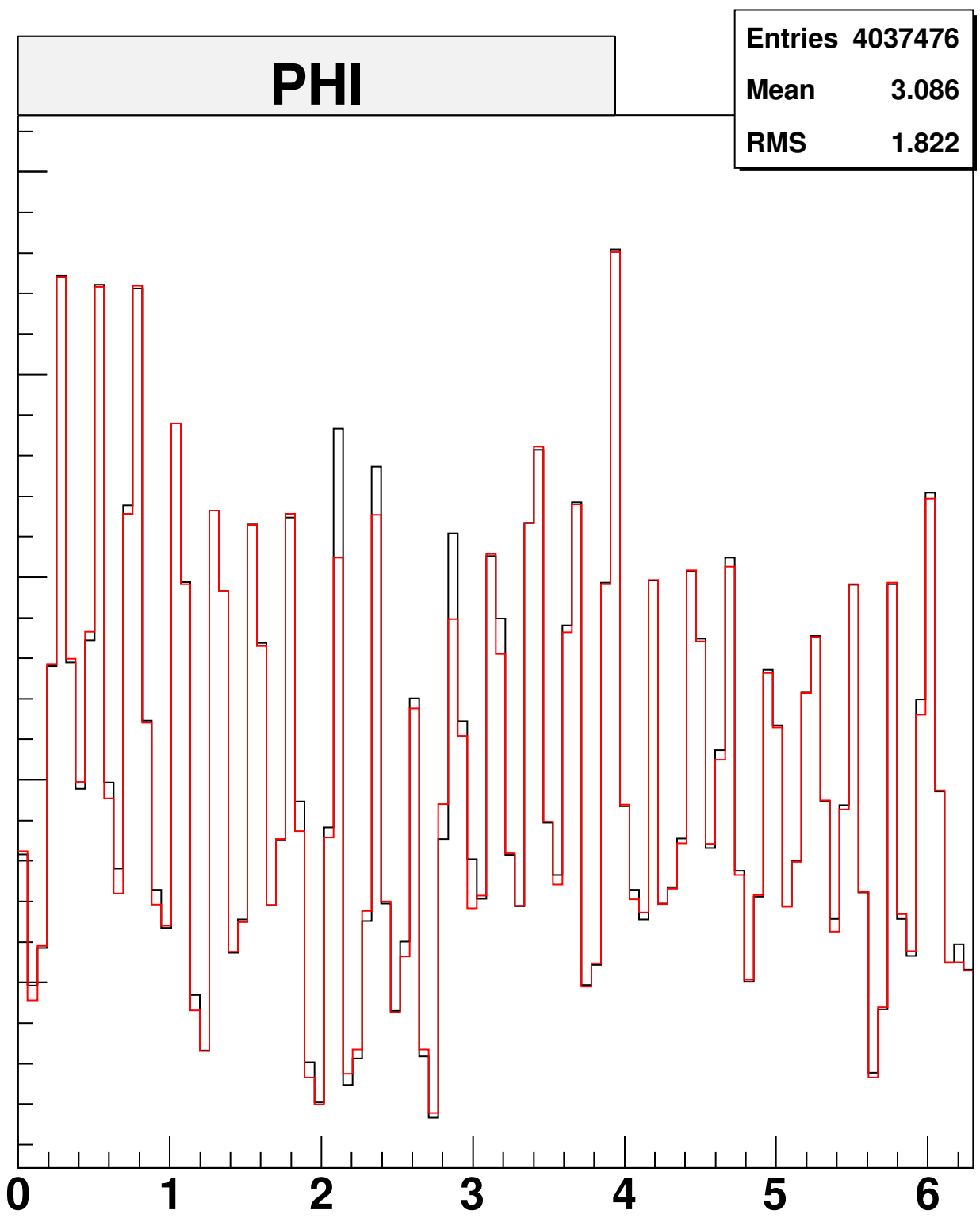


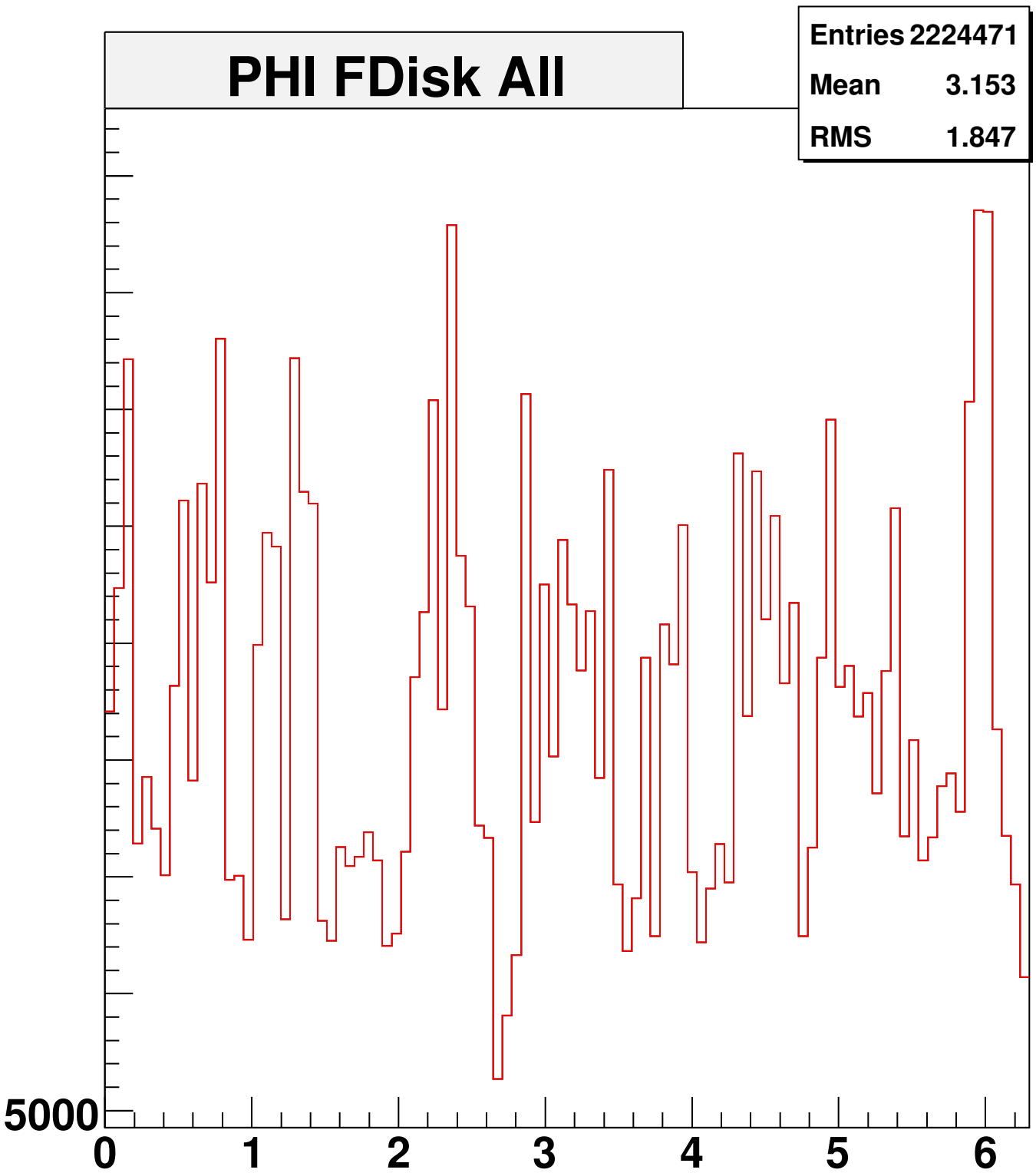


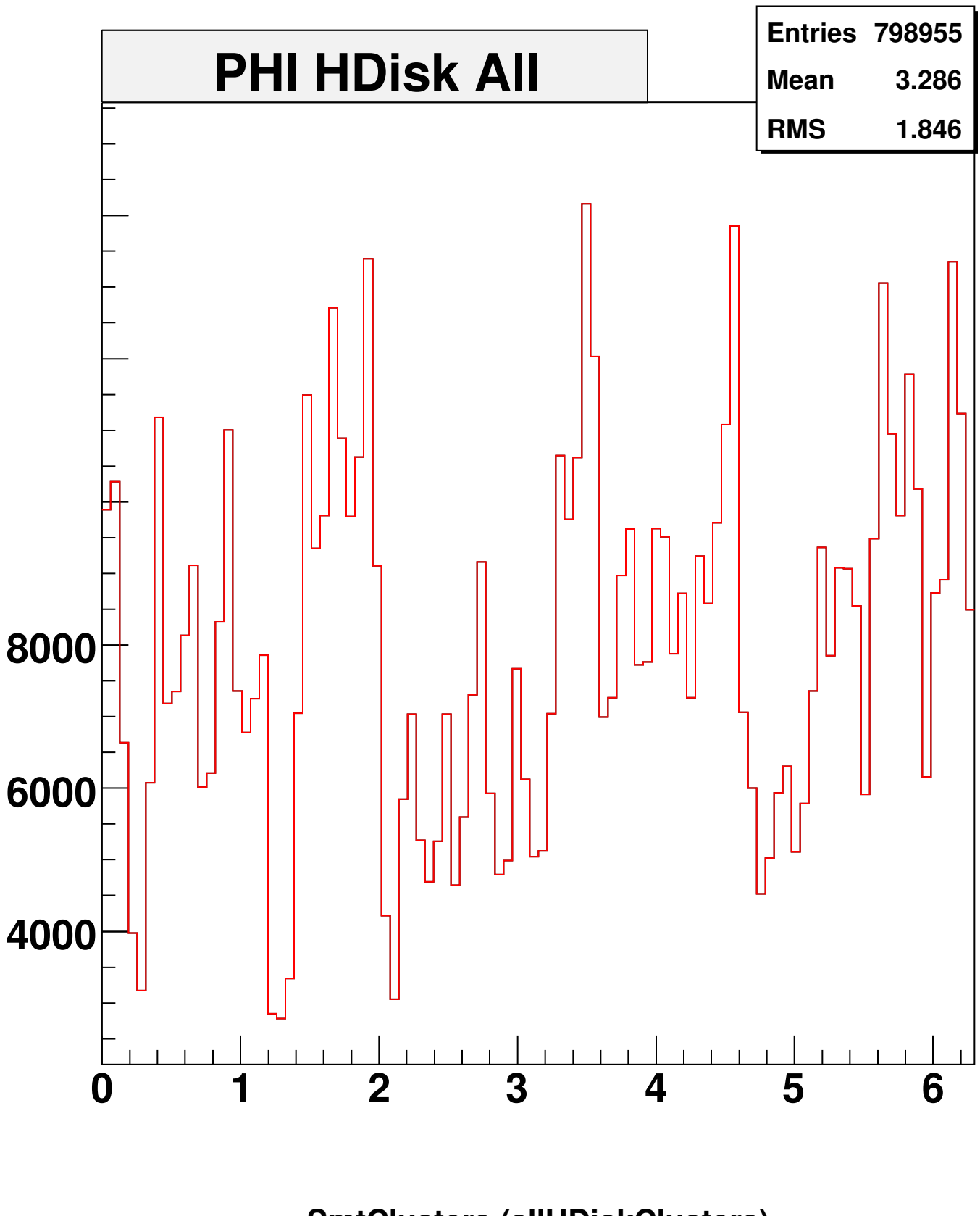


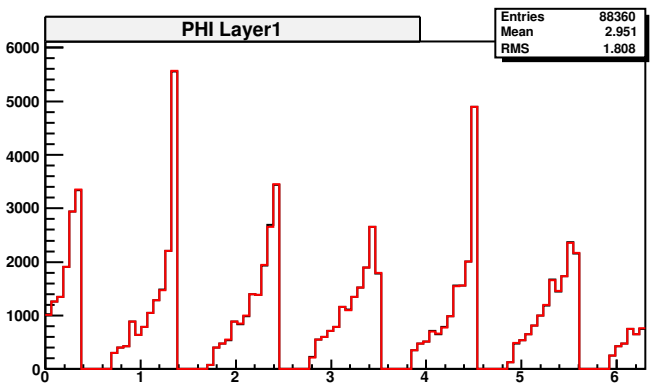


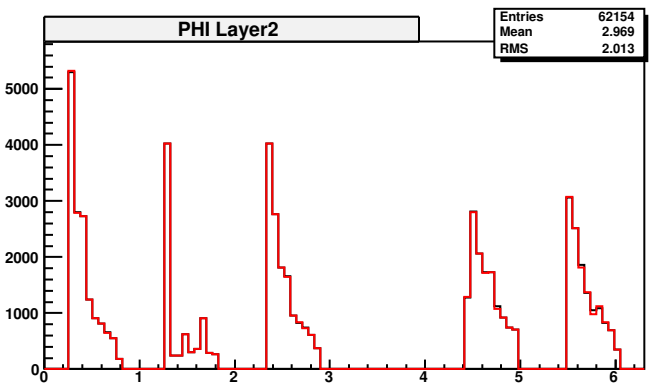
CPS Clusters (All Clusters)

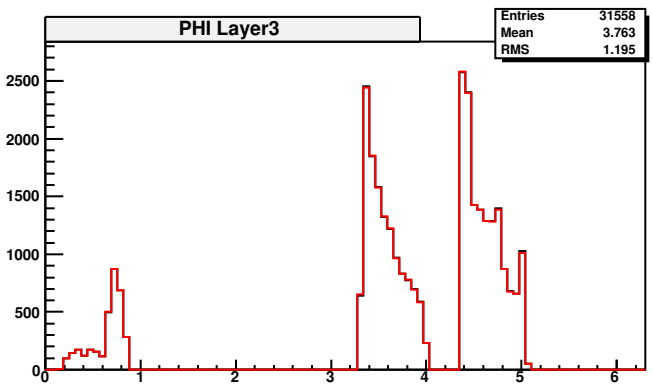

PHI
Entries 4037476
Mean 3.086
RMS 1.822
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

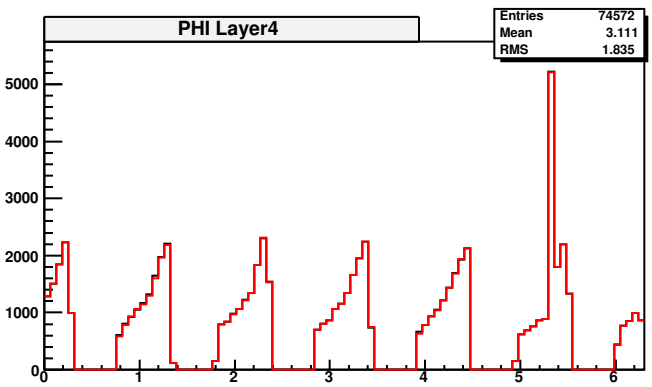

PHI FDisk All
Entries 2224471
Mean 3.153
RMS 1.847
5000
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

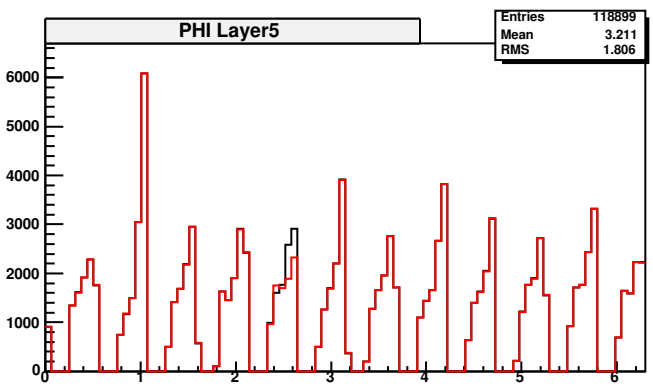

PHI HDisk All
Entries 798955
Mean 3.286
RMS 1.846
8000
6000
4000
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

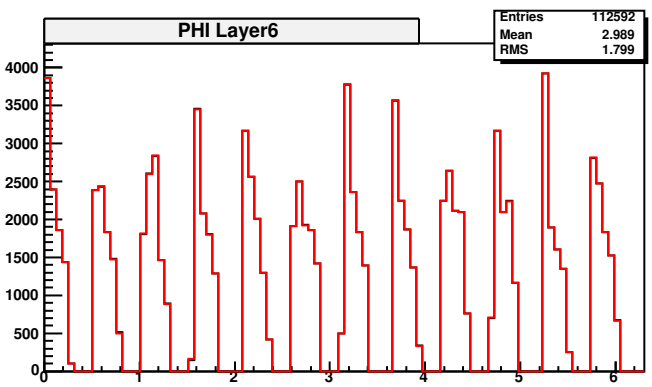


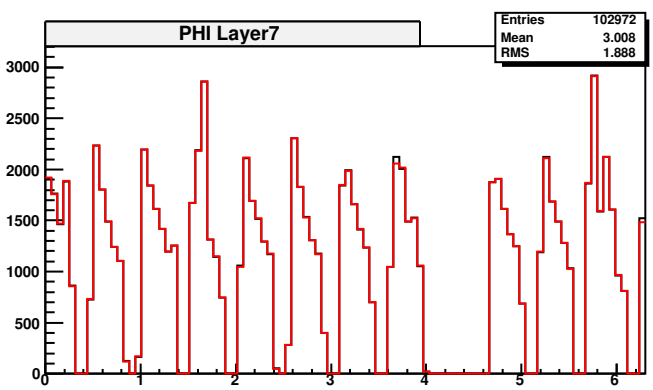


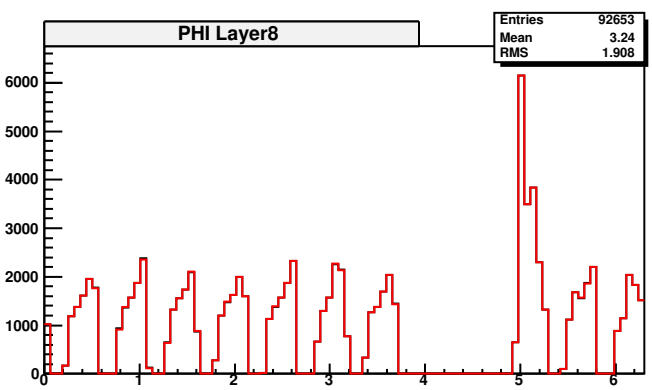




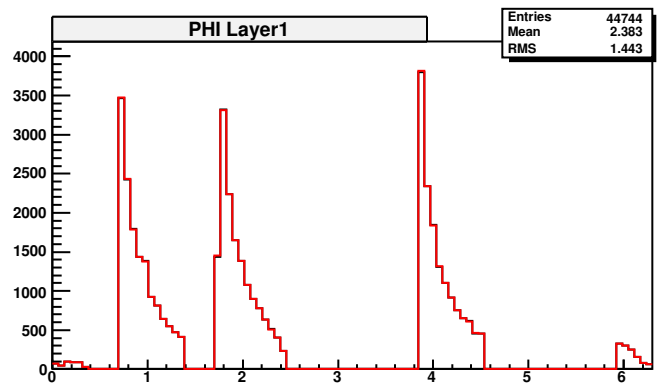


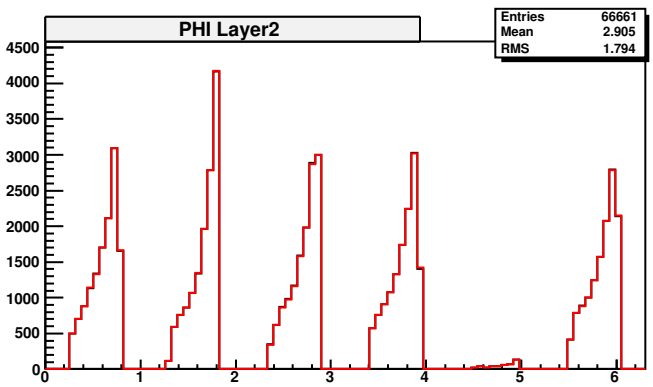


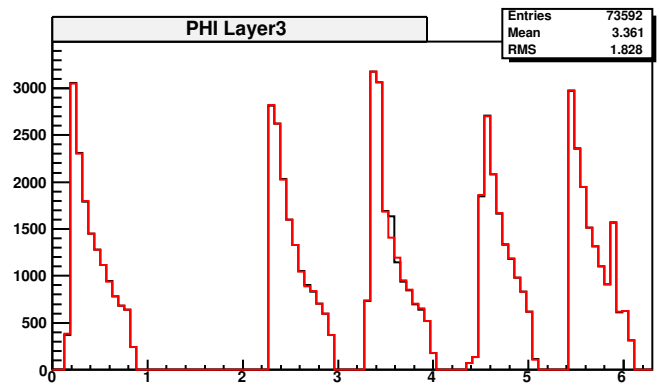


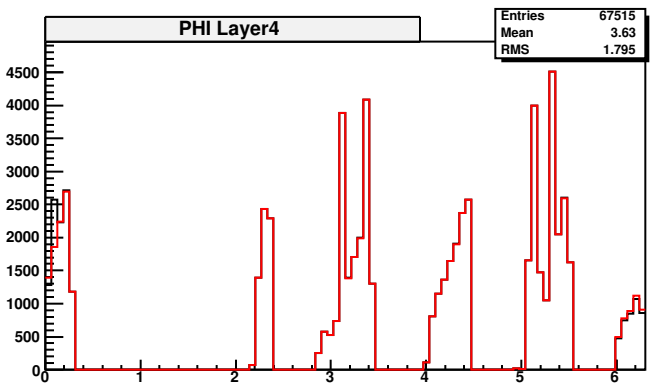


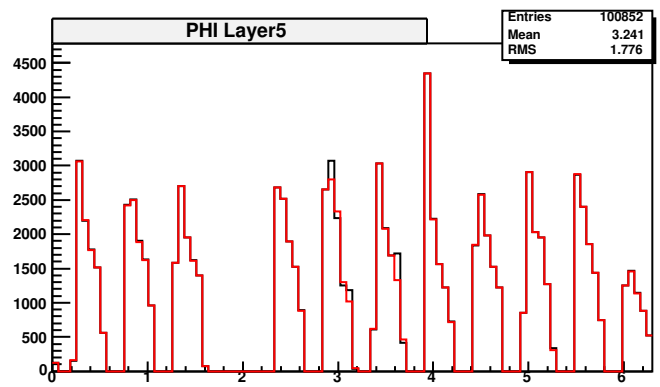
SmtClusters (ClustrBar1)

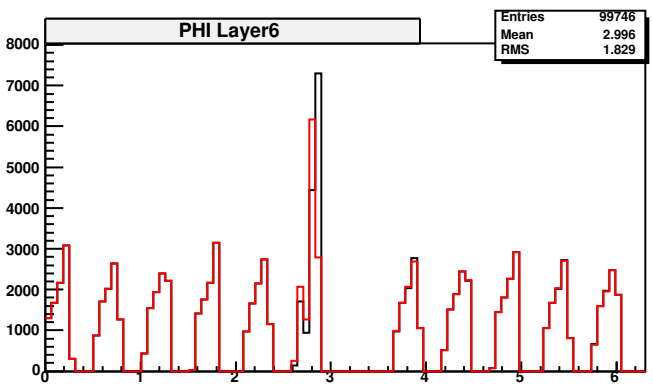


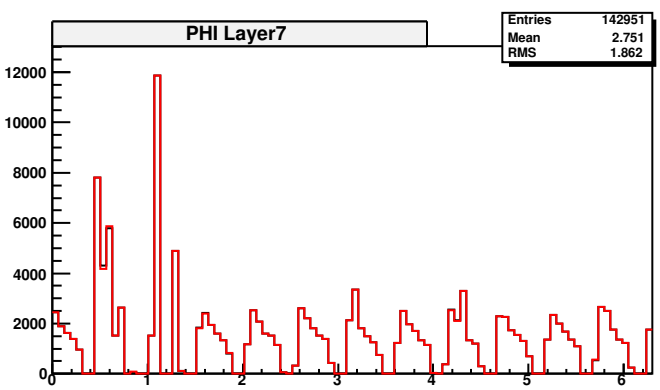


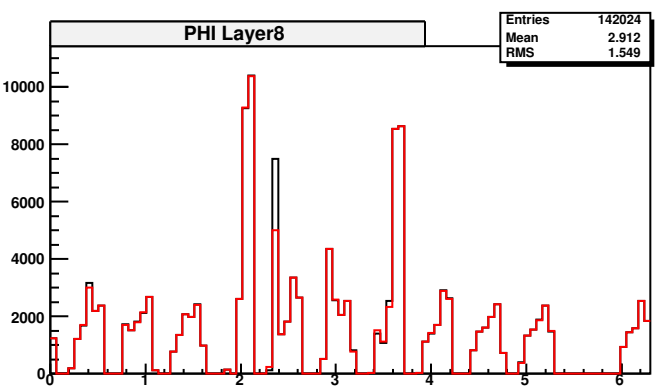




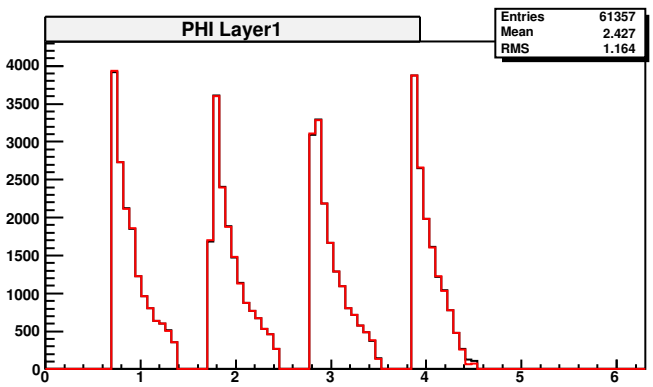


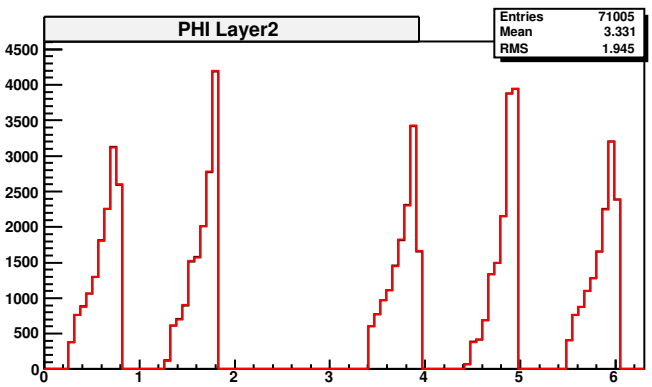


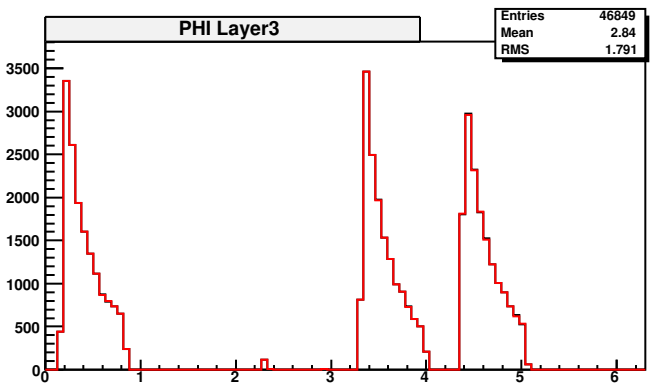


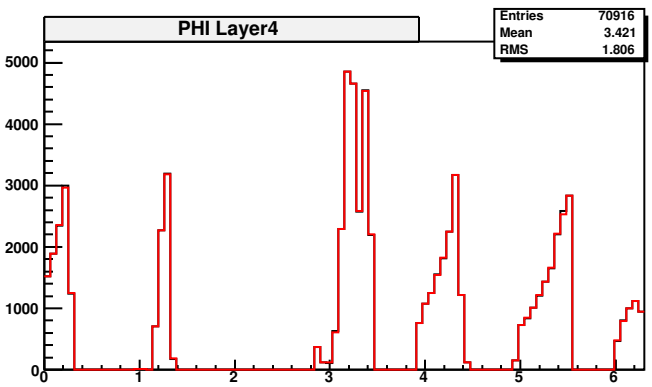


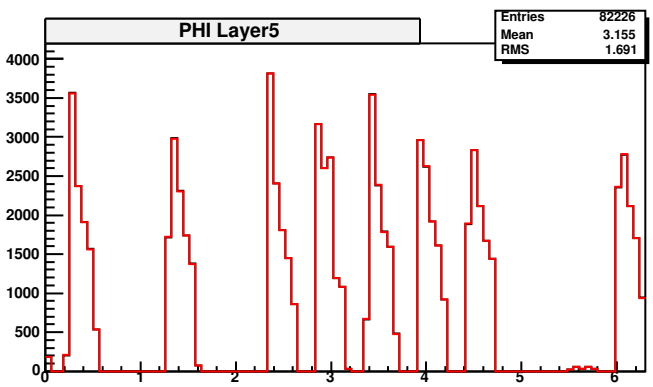
SmtClusters (ClustrBar2)

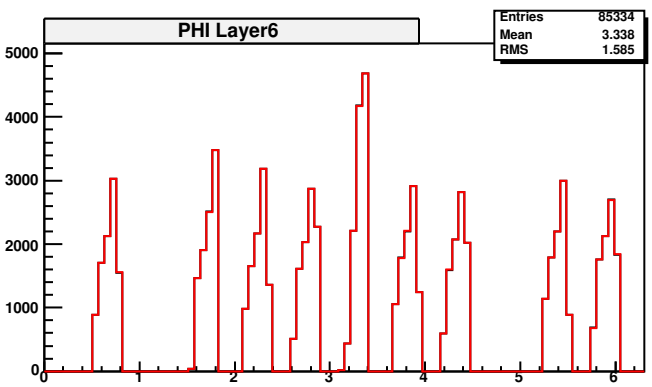


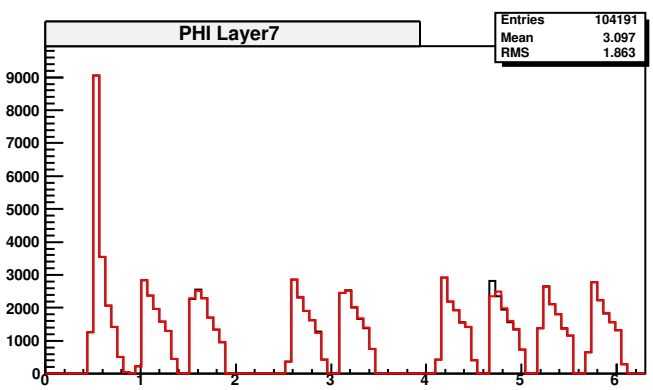


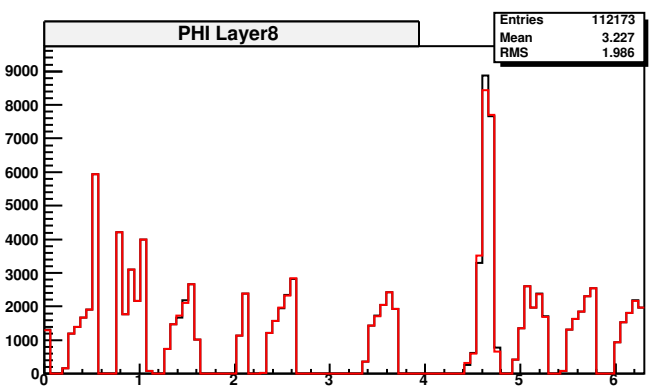




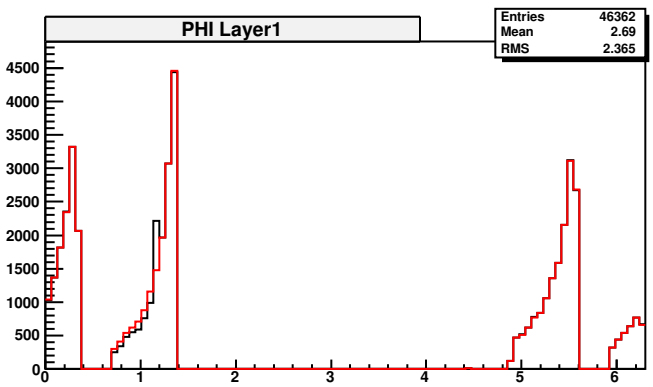


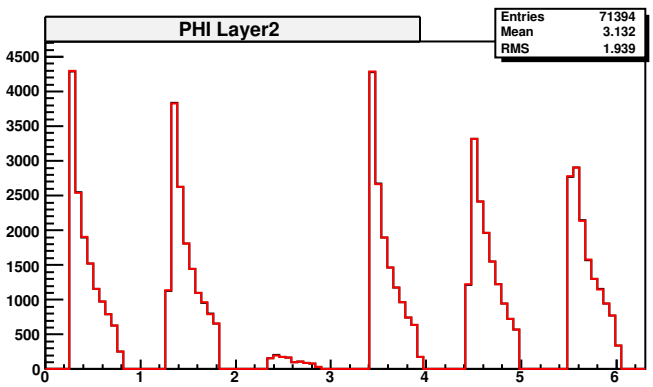


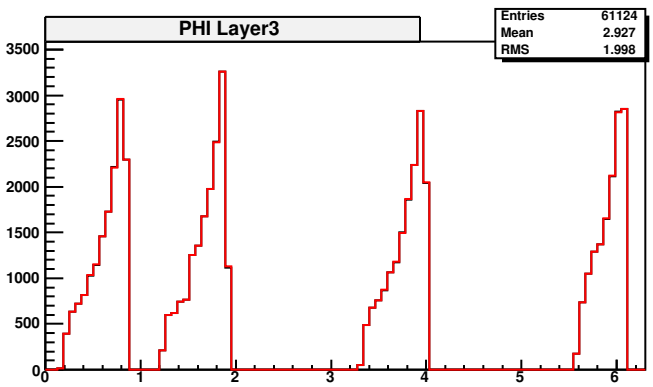


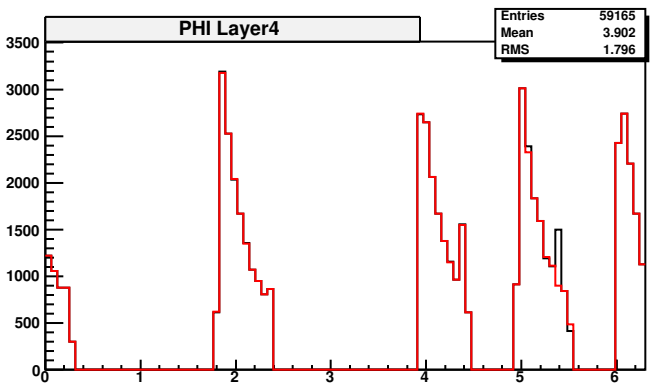


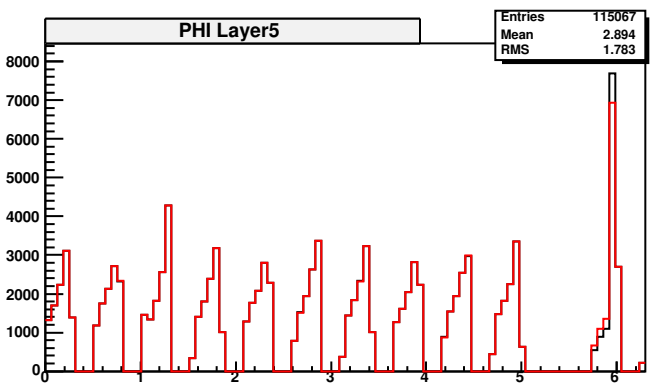
SmtClusters (ClustrBar3)

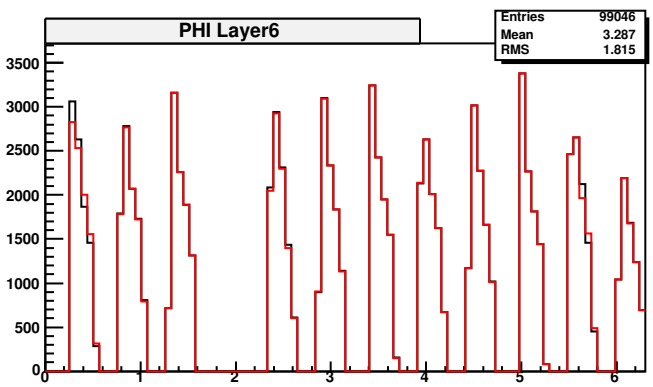


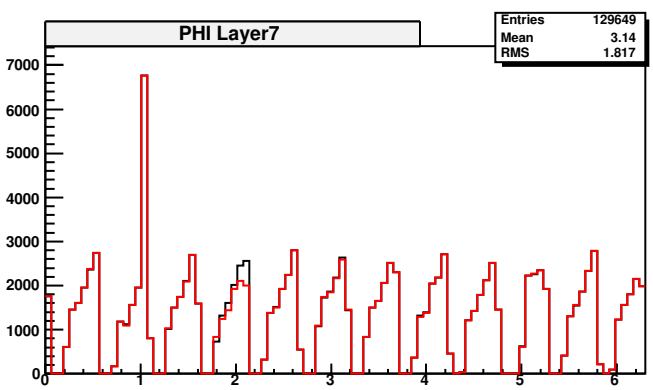


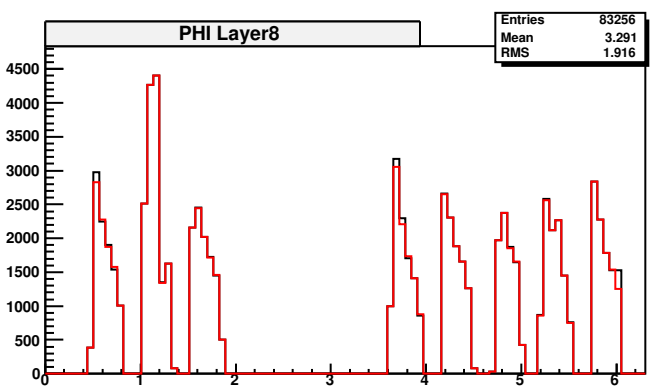




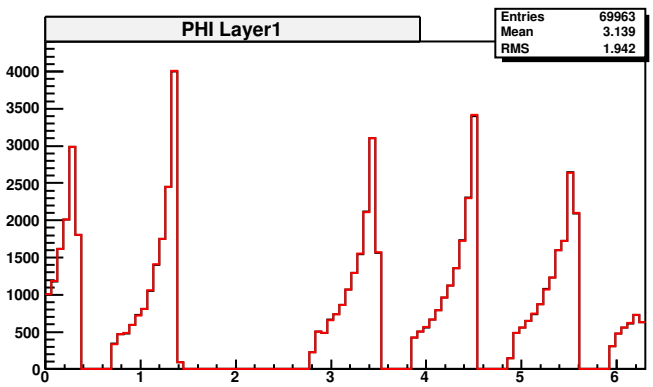


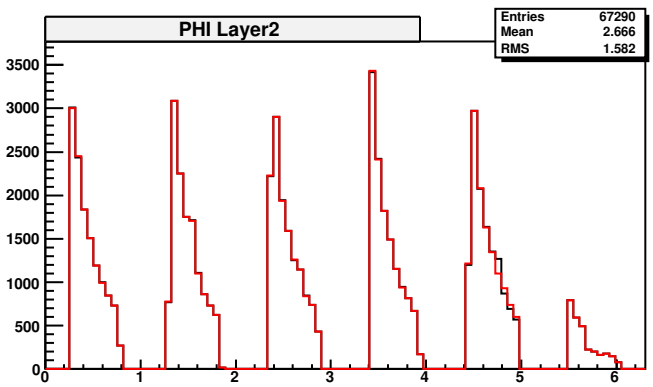


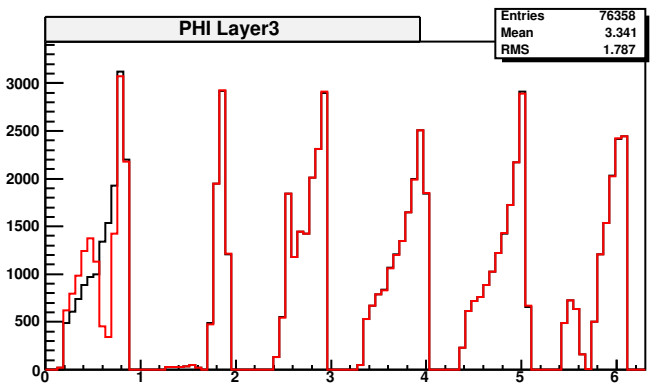


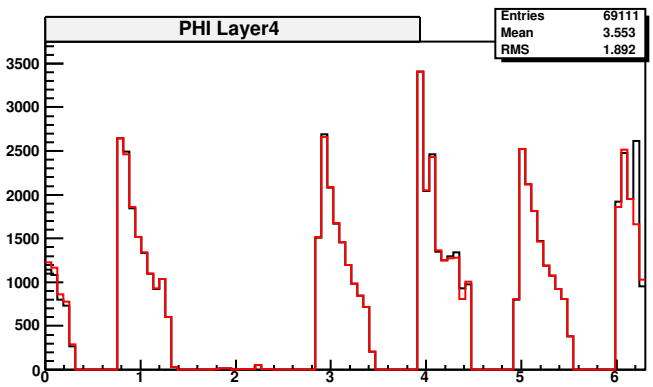


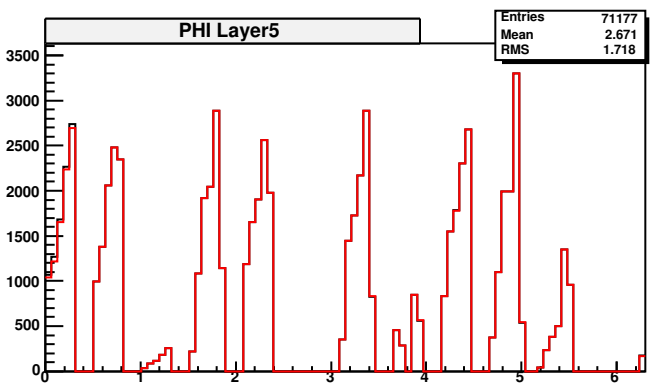
SmtClusters (ClustrBar4)

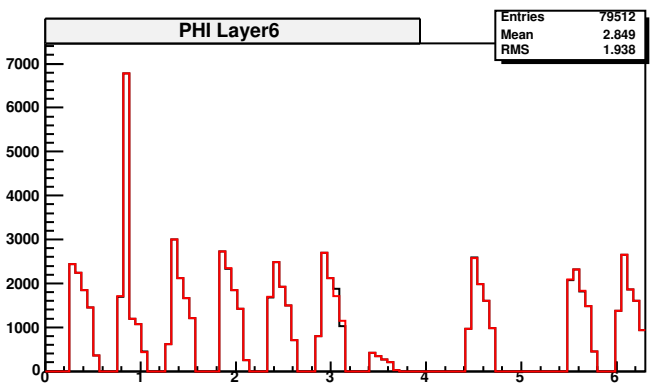


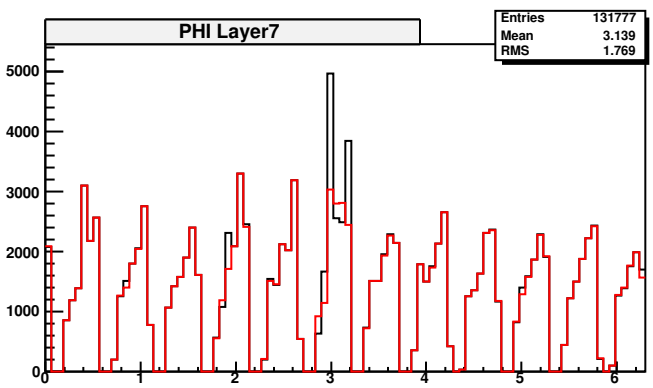


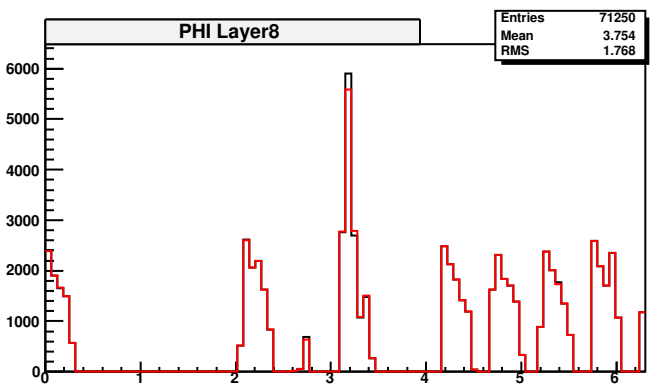




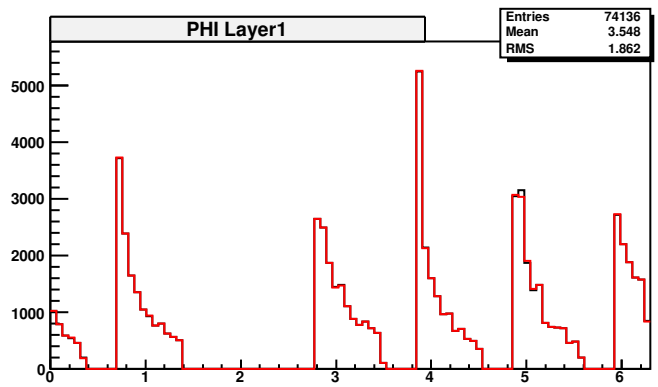


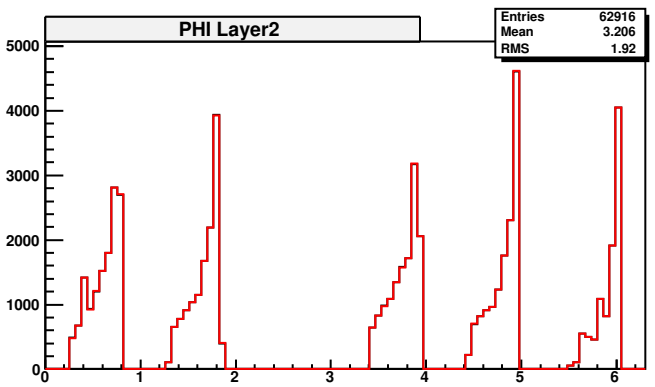


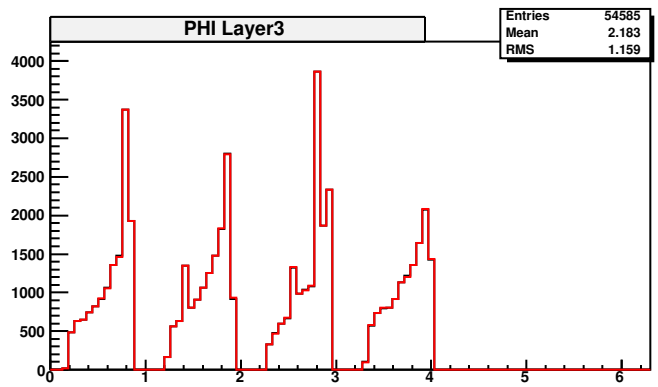


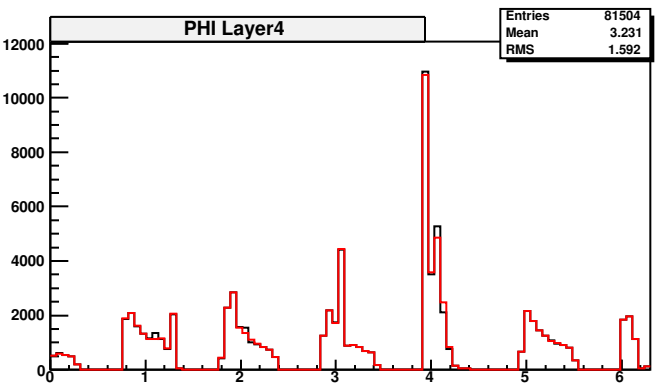


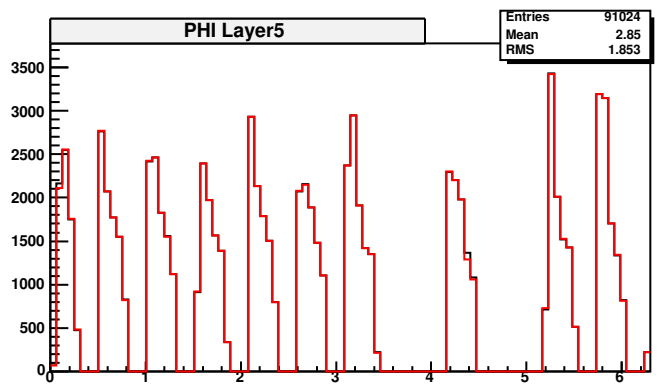
SmtClusters (ClustrBar5)

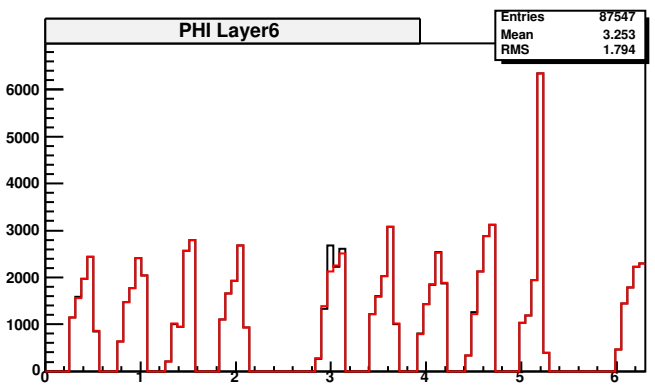


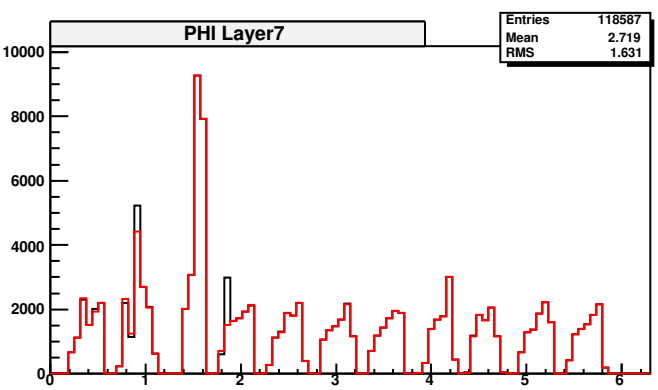


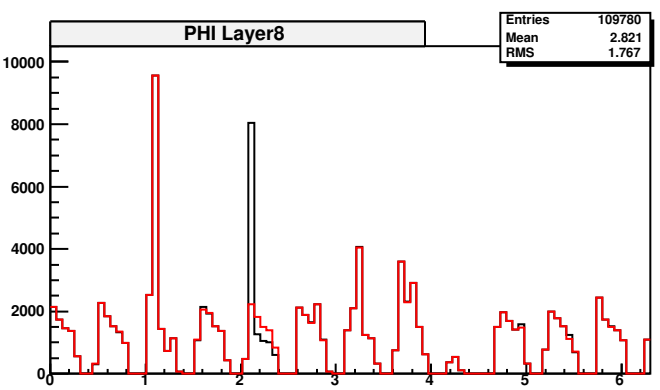




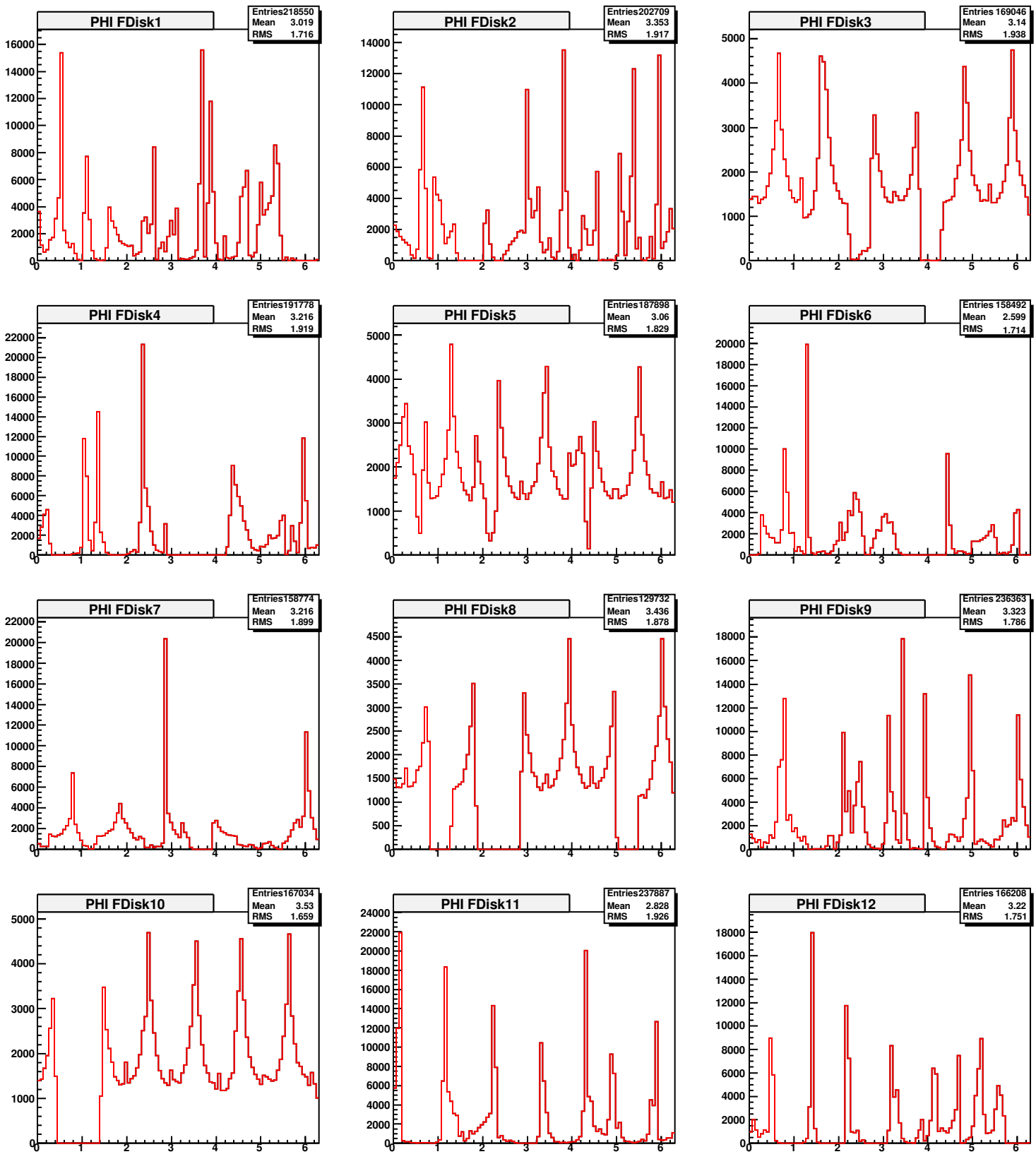




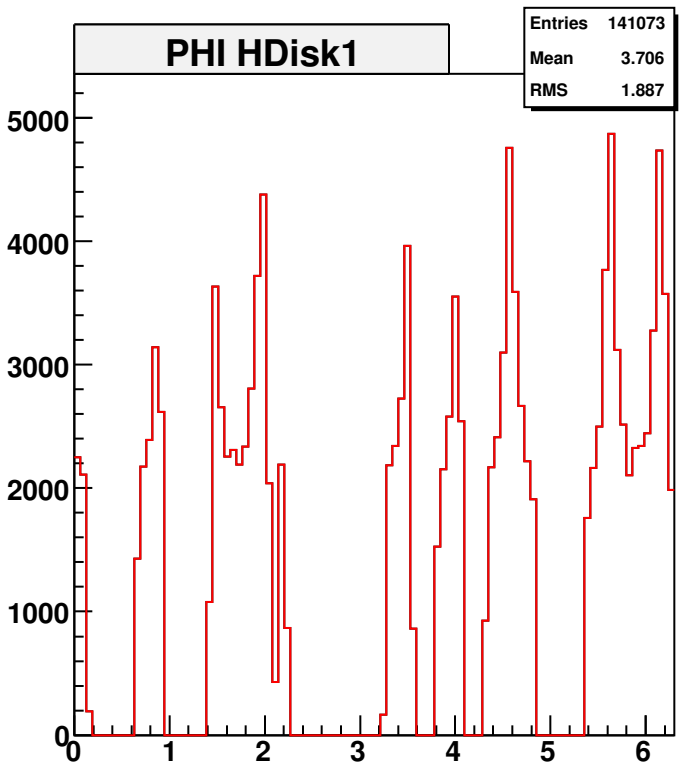


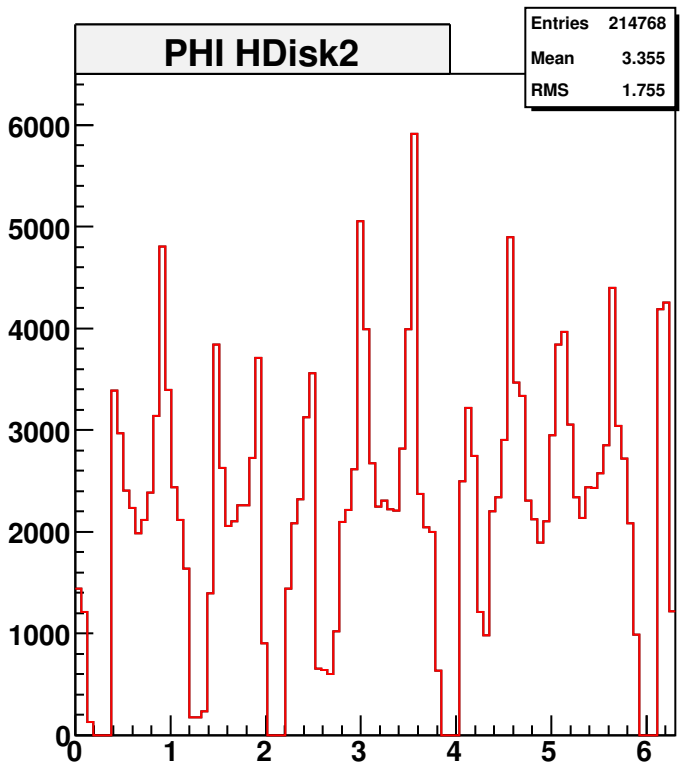


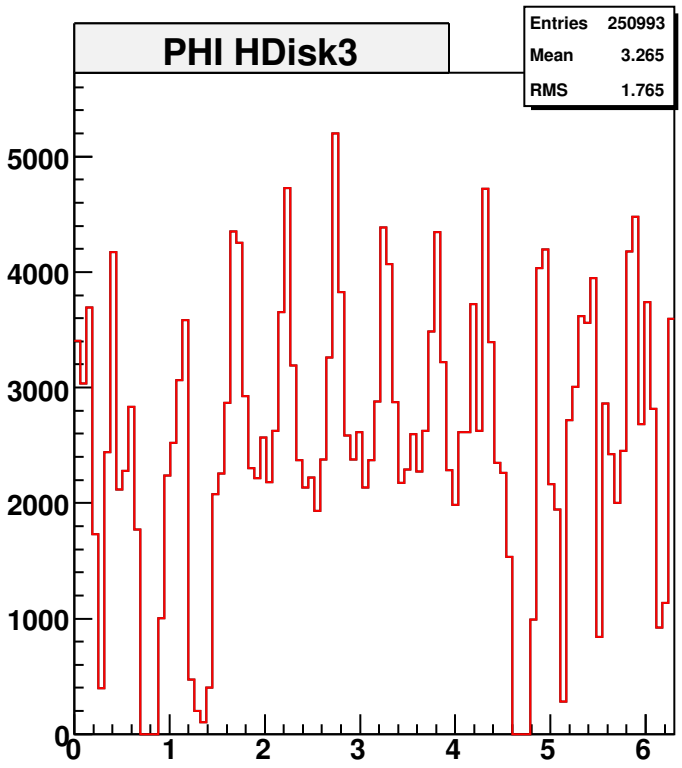
SmtClusters (ClustrBar6)

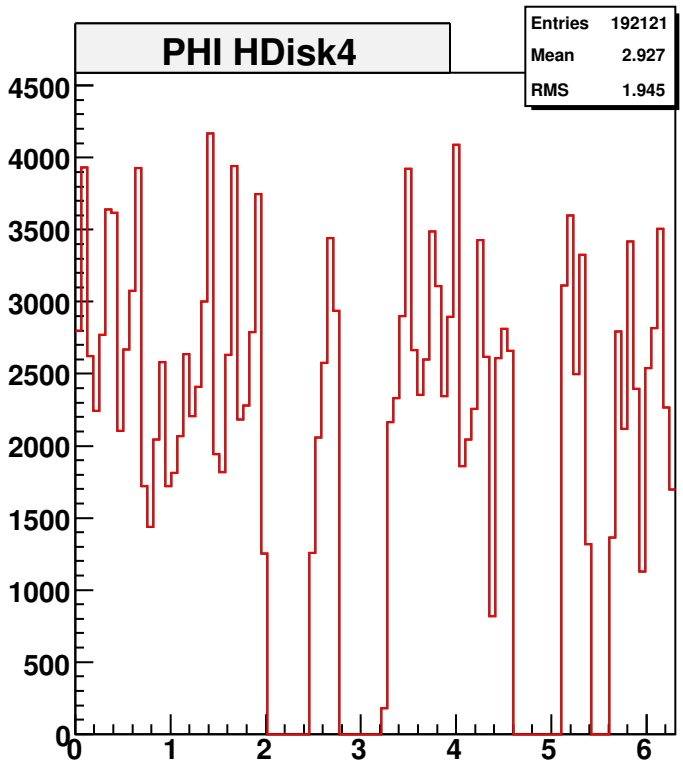


SmtClusters (FDiskClusters)

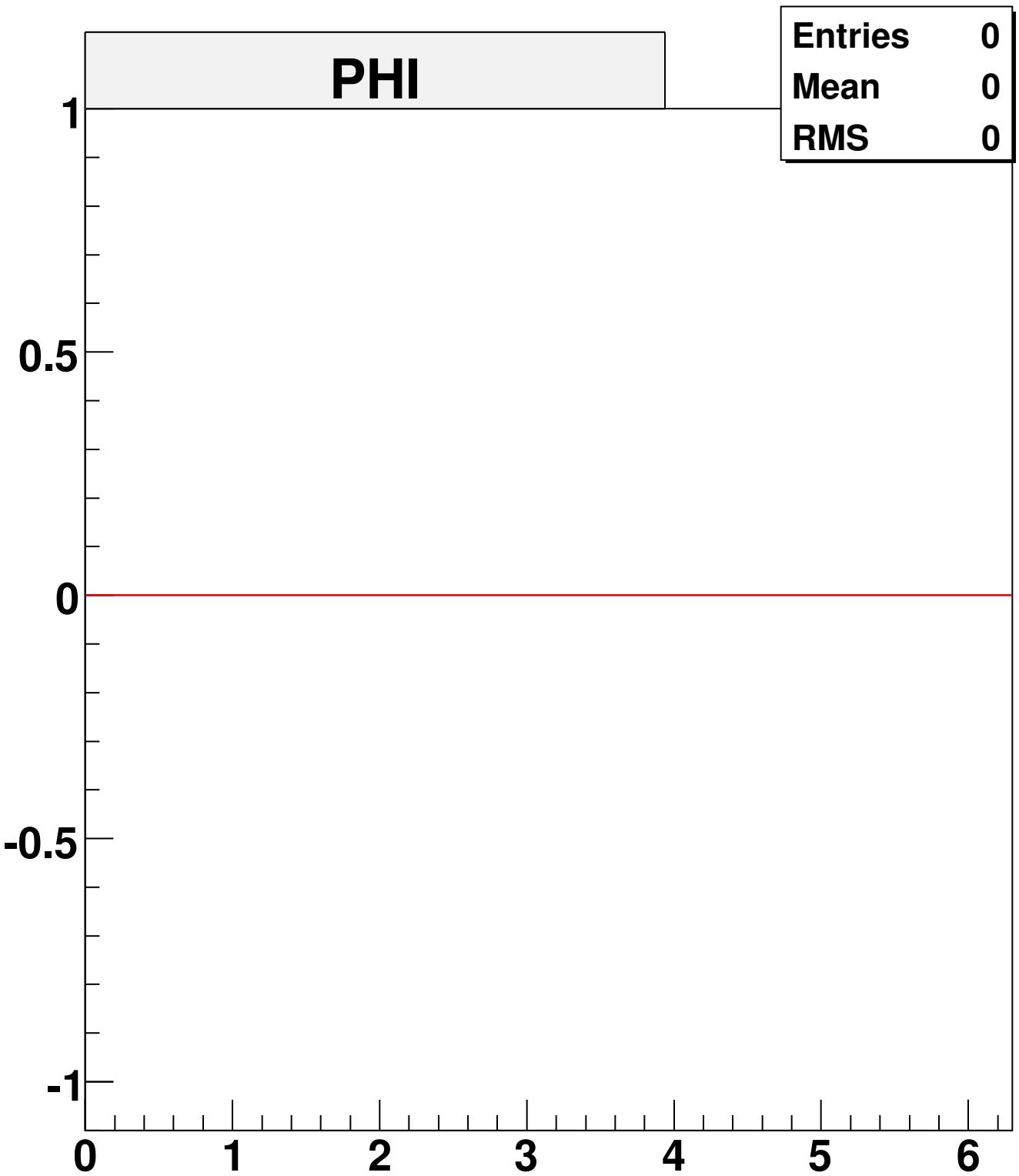


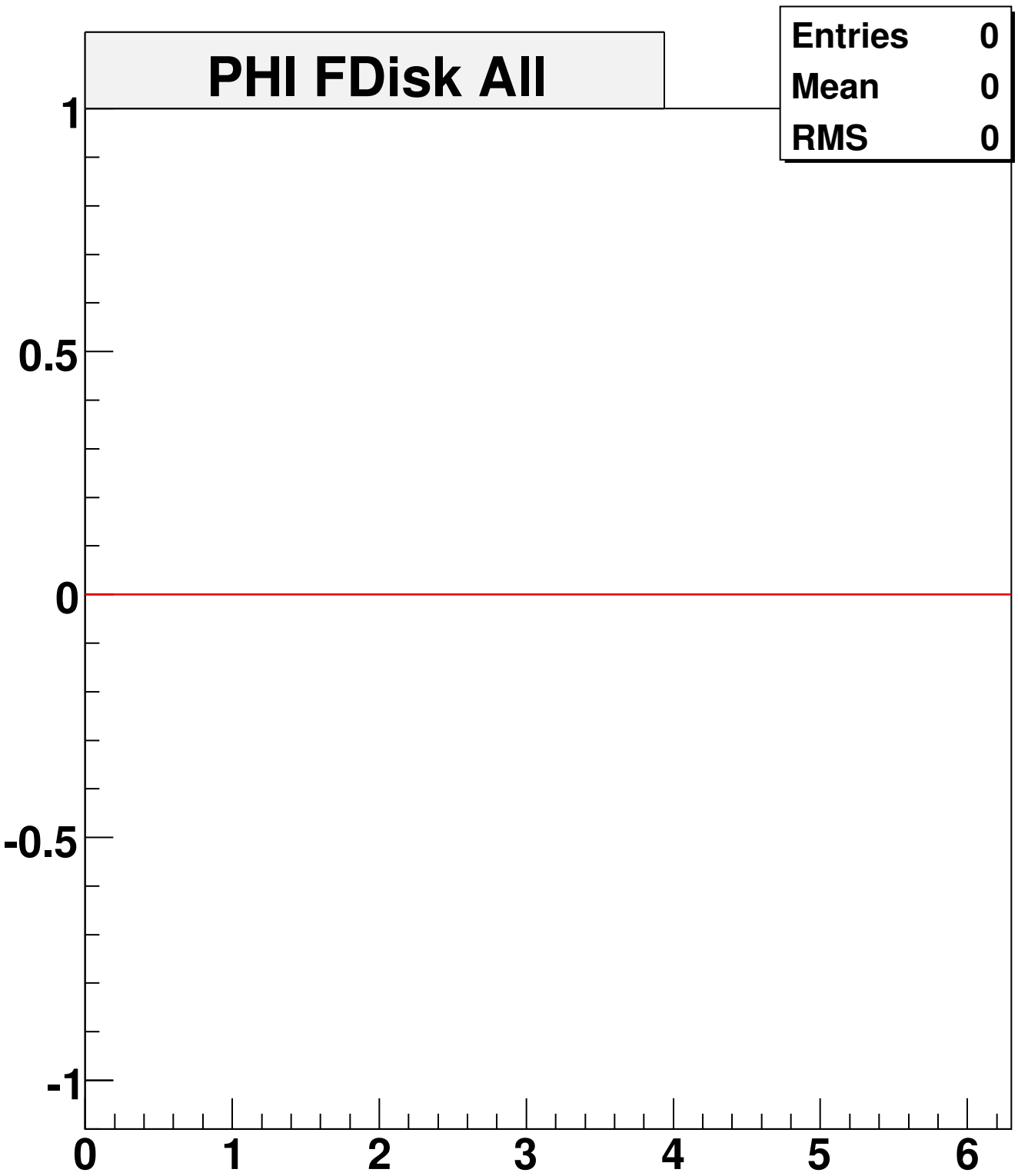






SmtClusters (HDiskClusters)


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
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3
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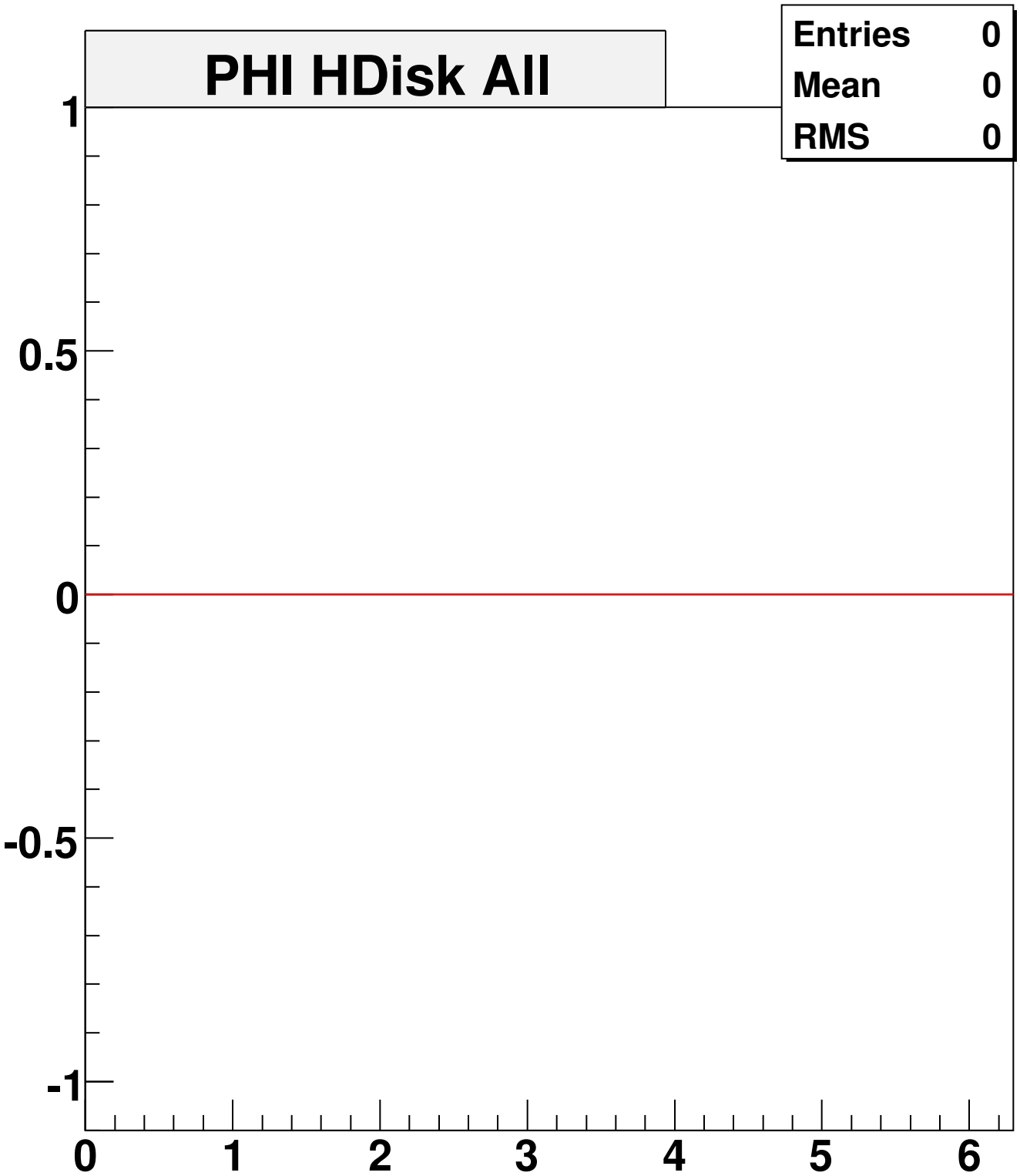
SmtClusters (allFDiskTClusters)


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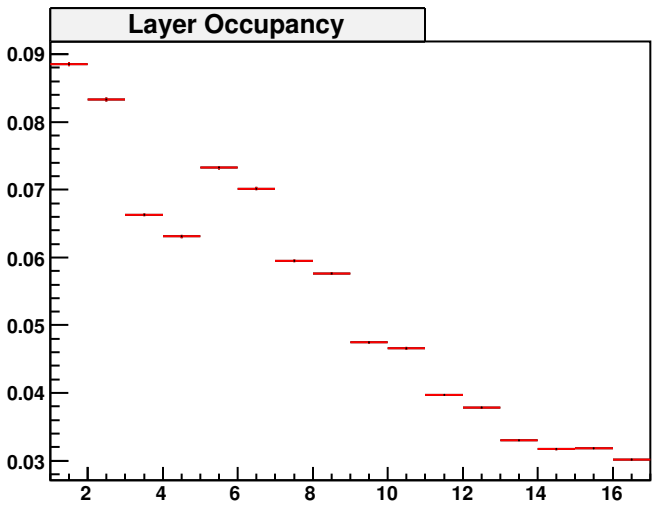
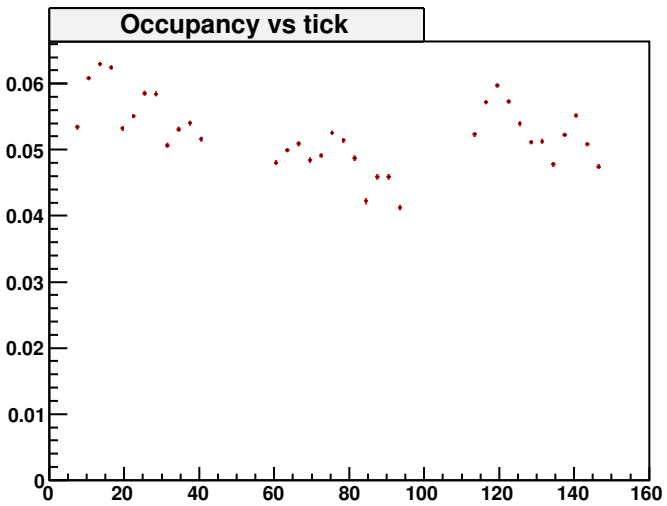
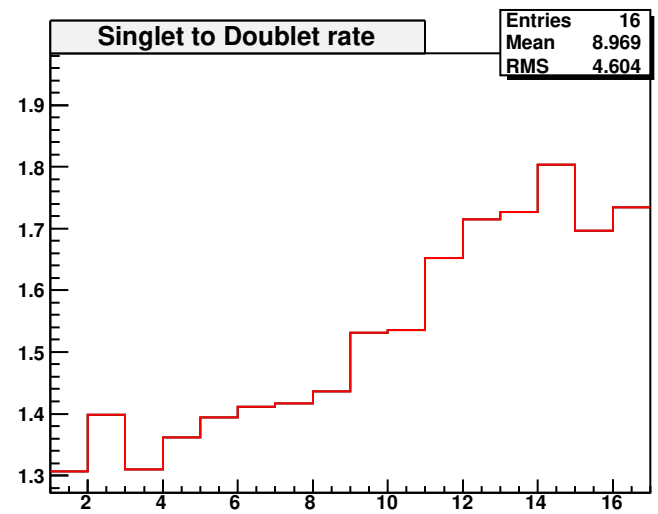
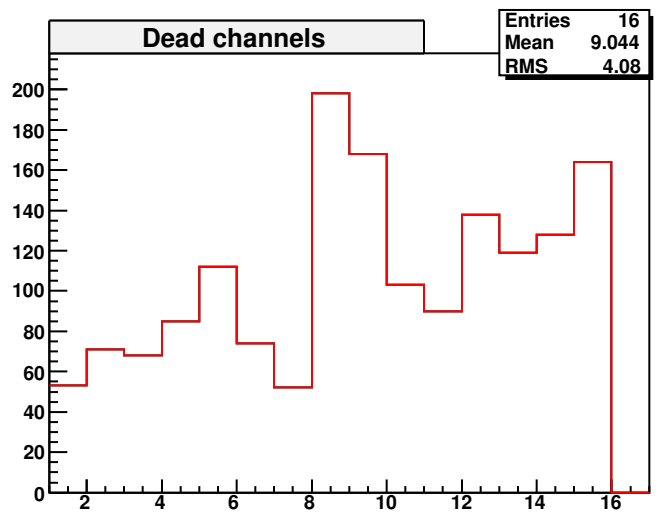
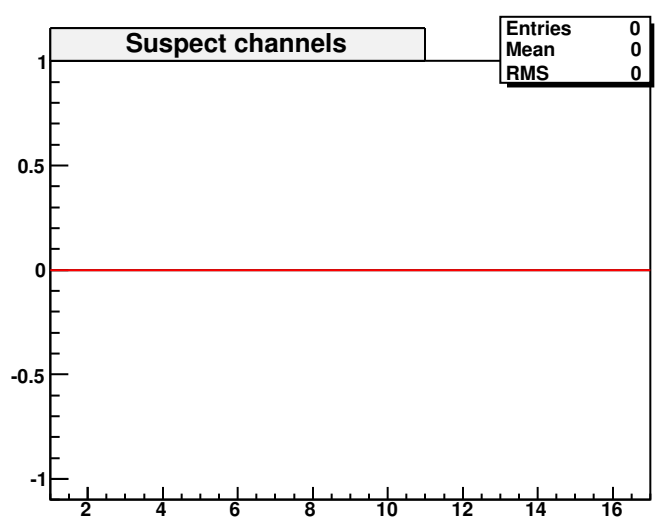
6
SmtClusters (allHDiskTClusters)

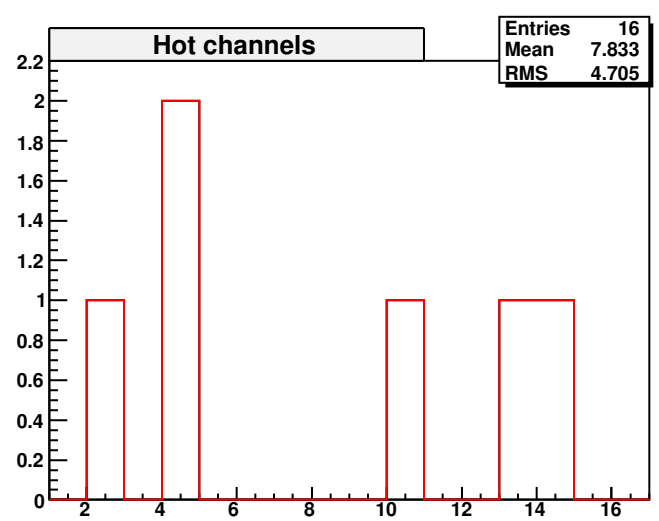




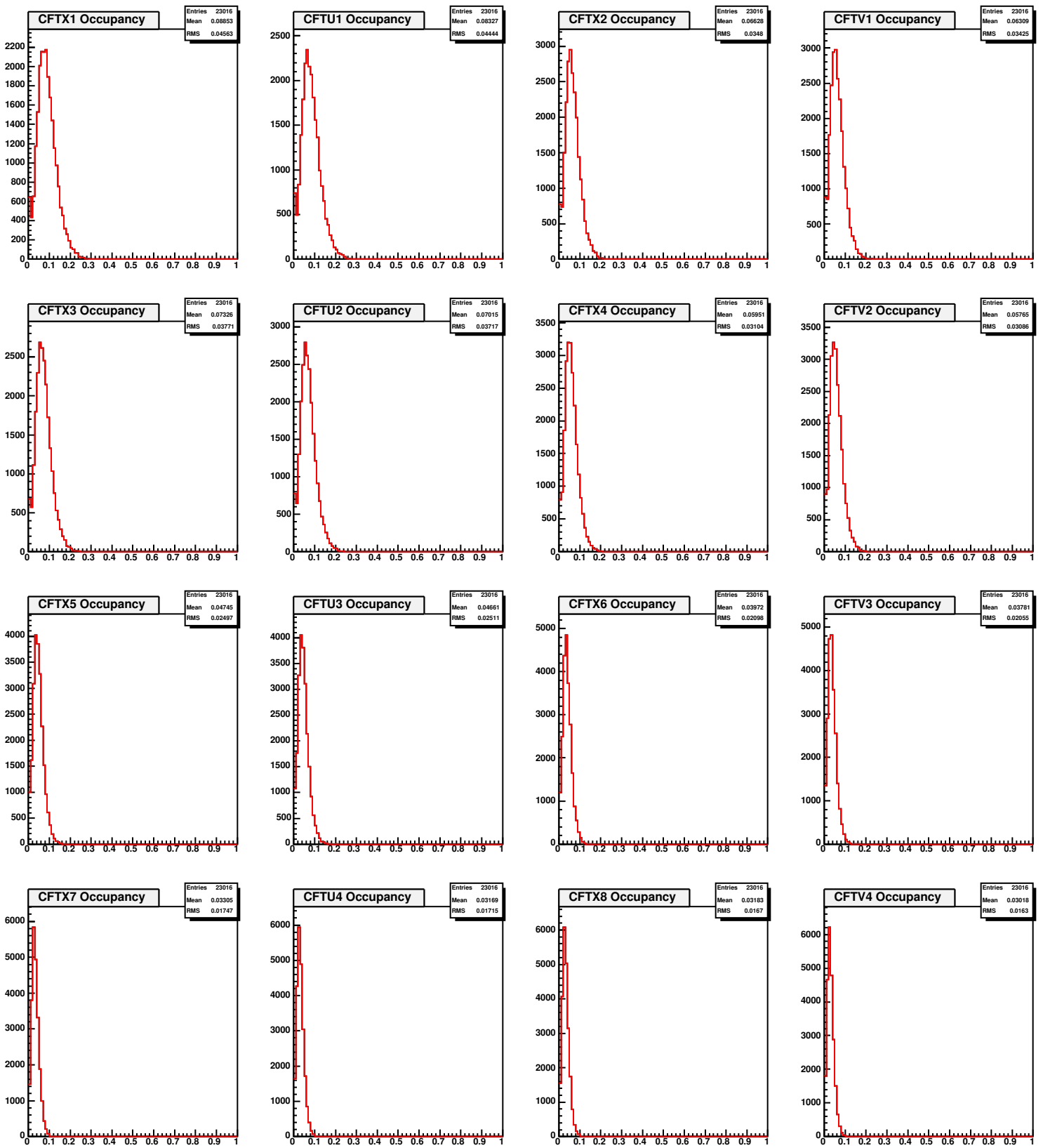




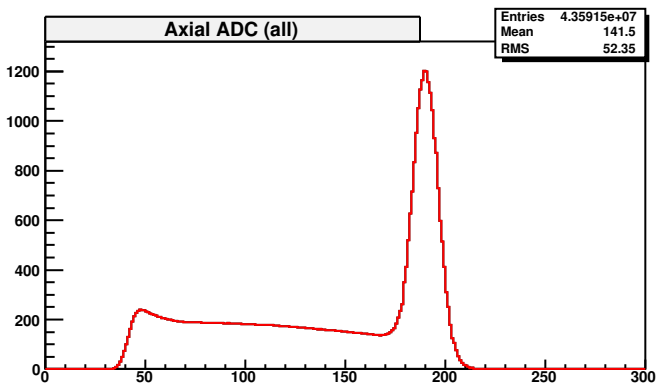


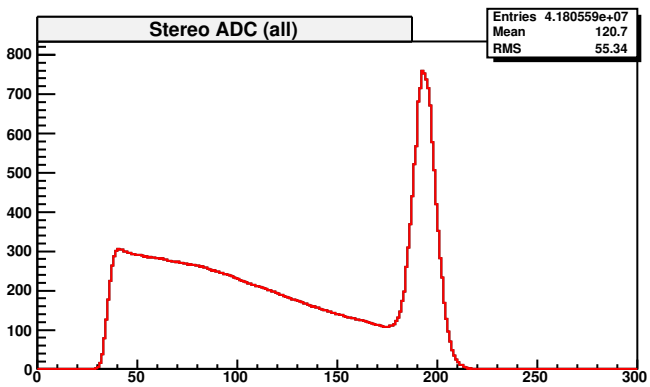


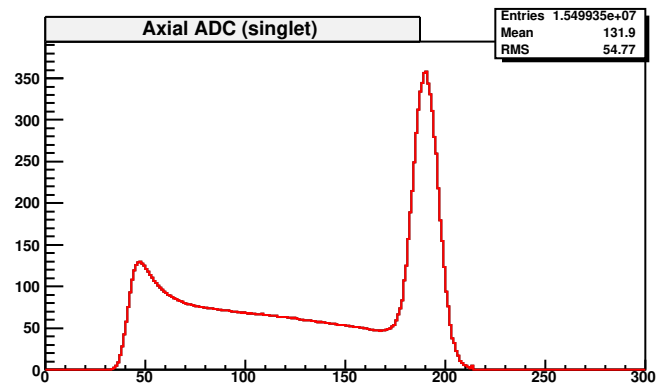
CFT Summary (All Clusters)

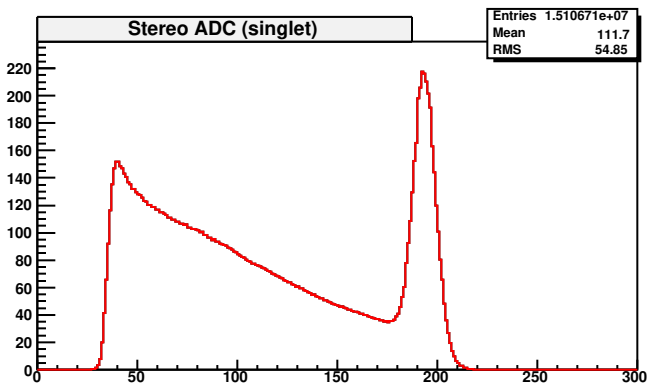


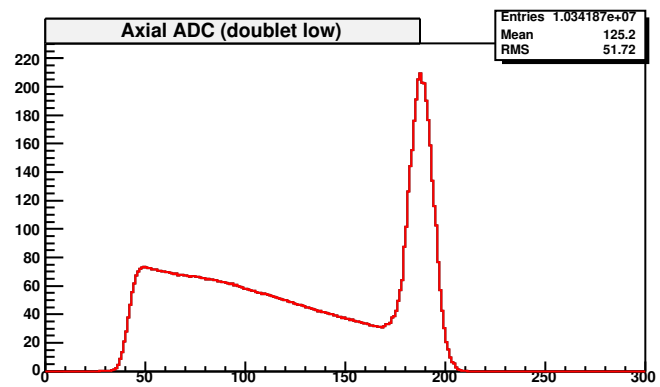
CFT Occupancy (All Clusters)

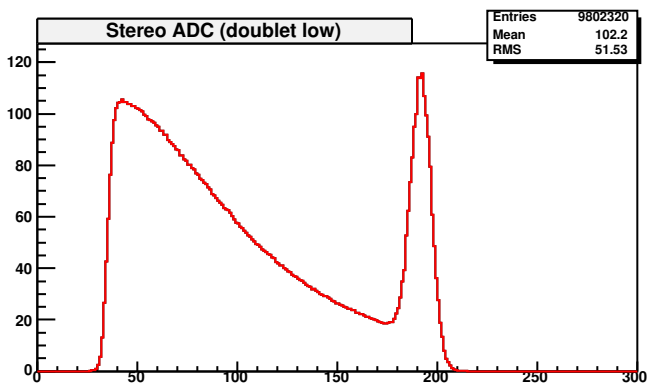


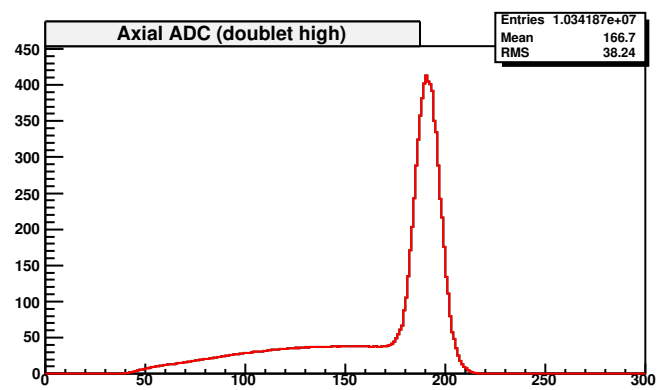


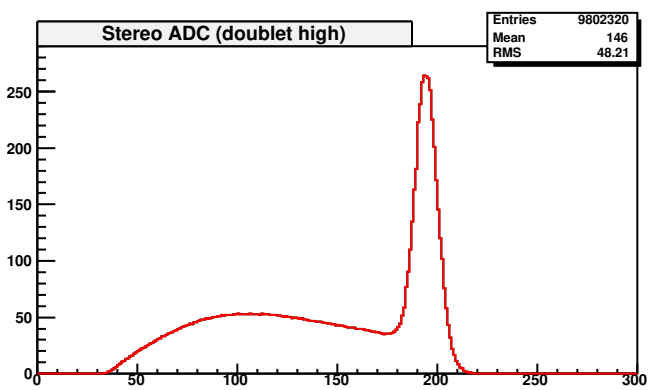




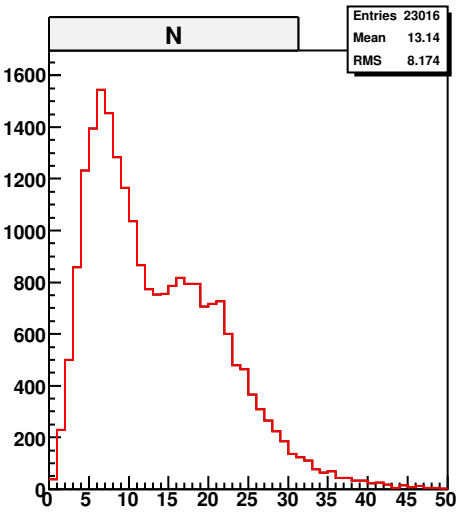


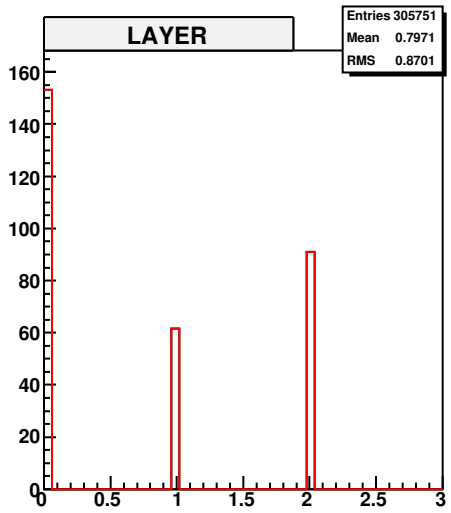


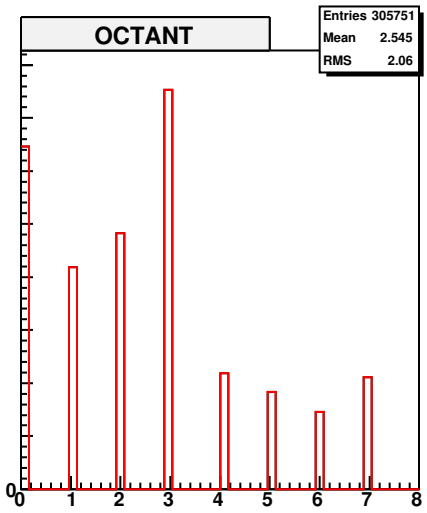


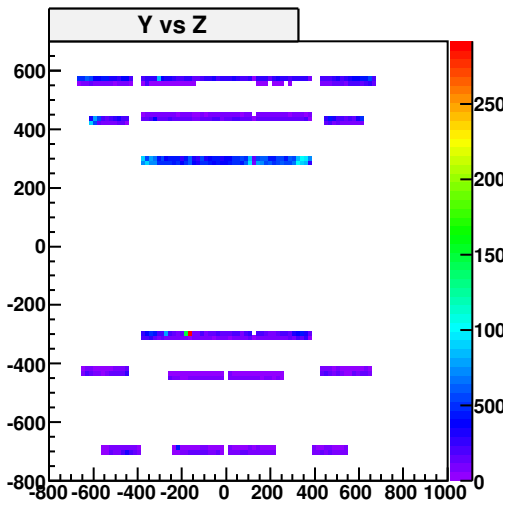


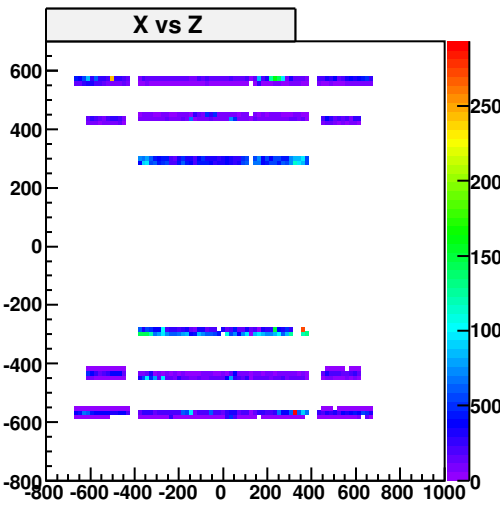
CFT ADC Summary (All Clusters)

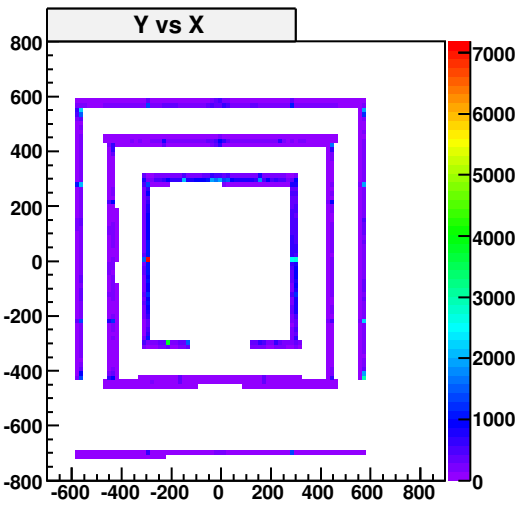

N
Entries 23016
Mean 13.14
RMS 8.174

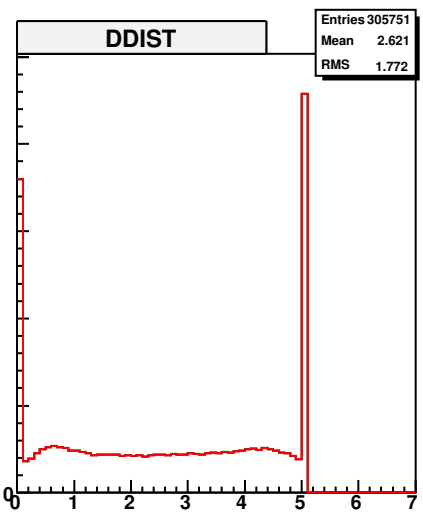

LAYER
Entries 305751
Mean 0.7971
RMS 0.8701

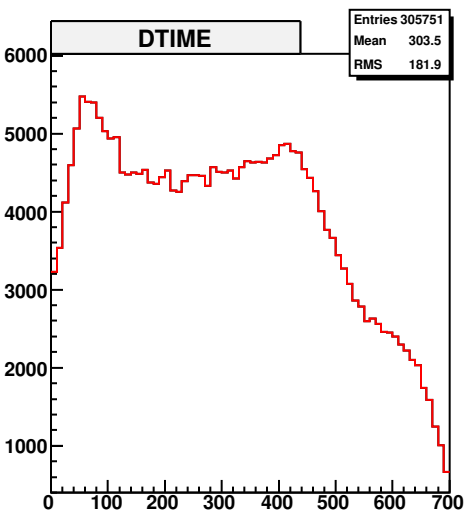

OCTANT
Entries 305751
Mean 2.545
RMS 2.06


Y vs Z

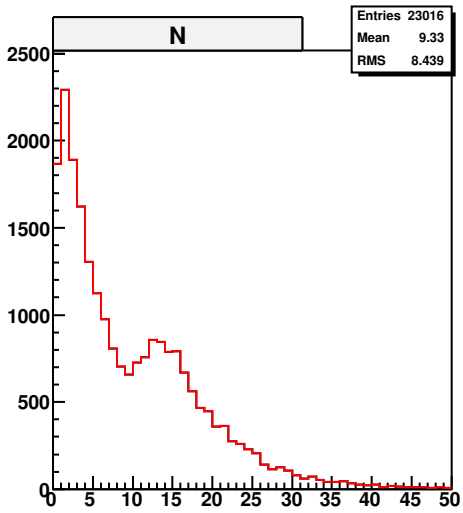

X vs Z

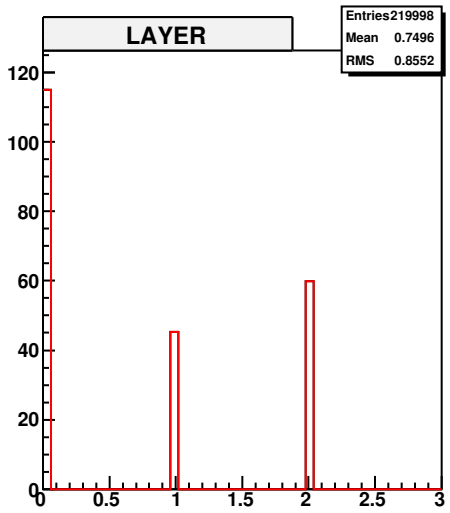

Y vs X

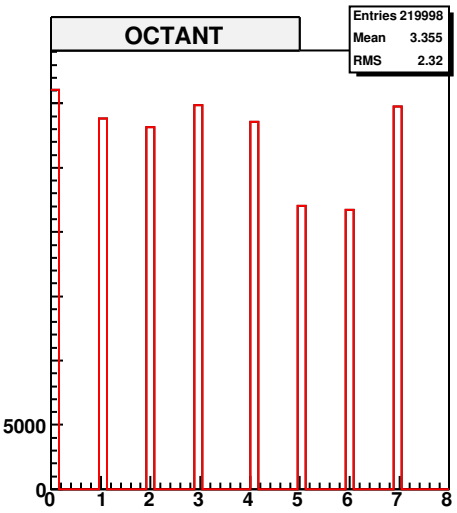

DDIST
Entries 305751
Mean 2.621
RMS 1.772

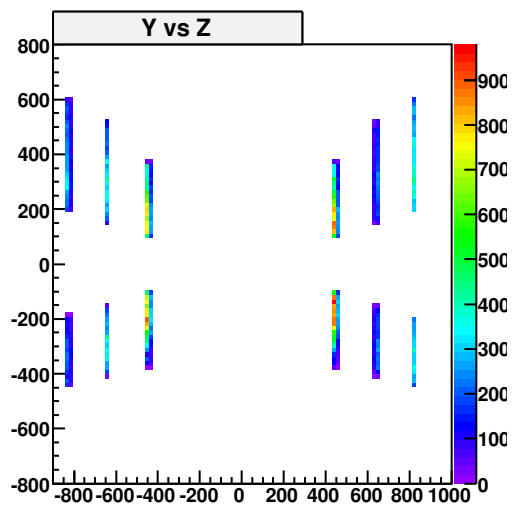

DTIME
Entries 305751
Mean 303.5
RMS 181.9

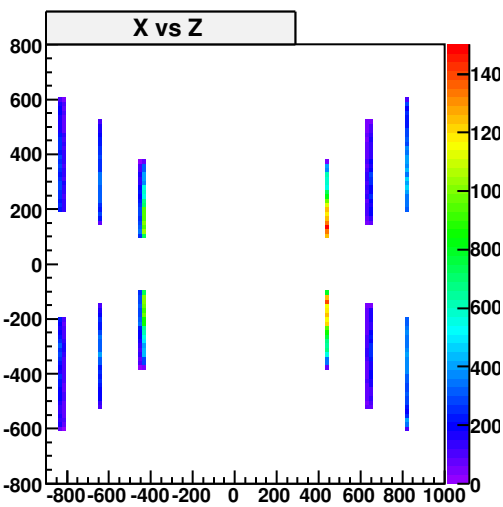
MuonPDT (All)

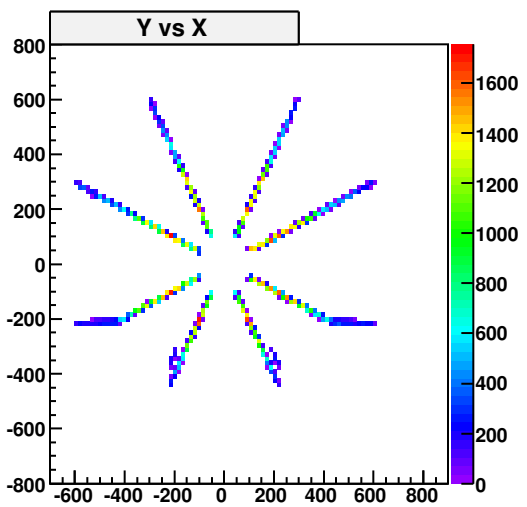

N
Entries 23016
Mean 9.33
RMS 8.439

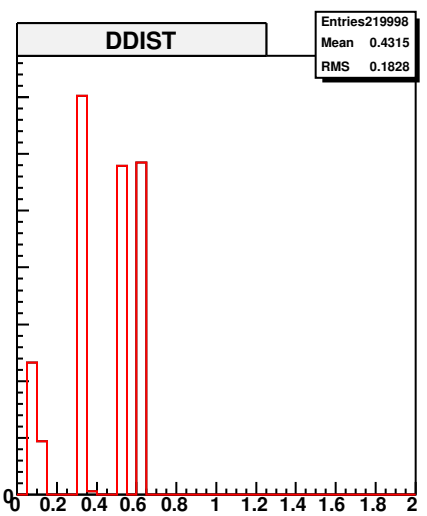

LAYER
Entries 219998
Mean 0.7496
RMS 0.8552

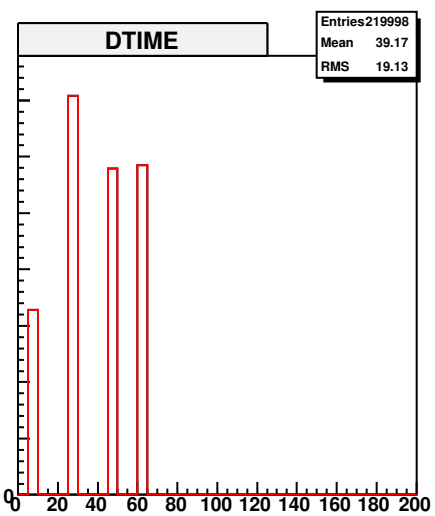

OCTANT
Entries 219998
Mean 3.355
RMS 2.32


Y vs Z

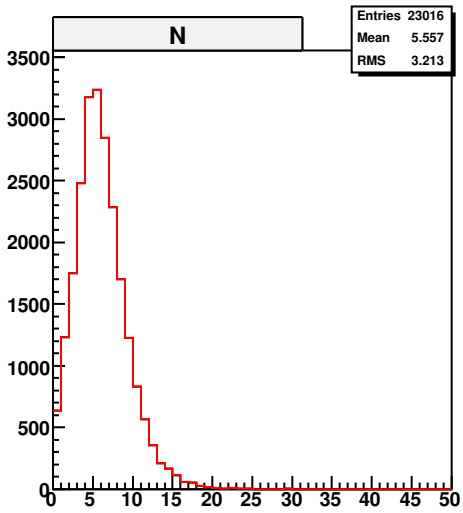

X vs Z

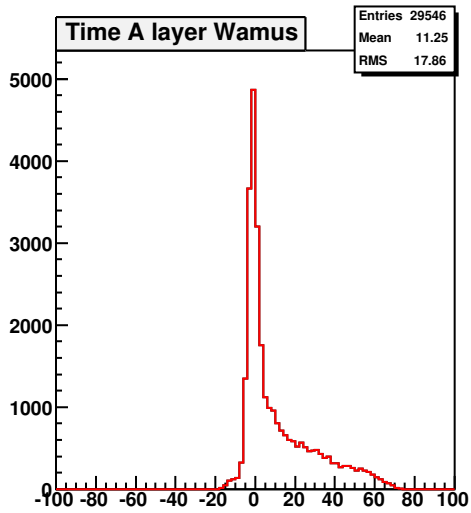

Y vs X

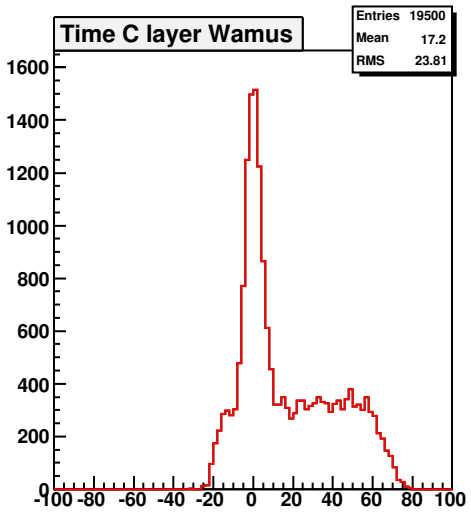

DDIST
Entries 219998
Mean 0.4315
RMS 0.1828

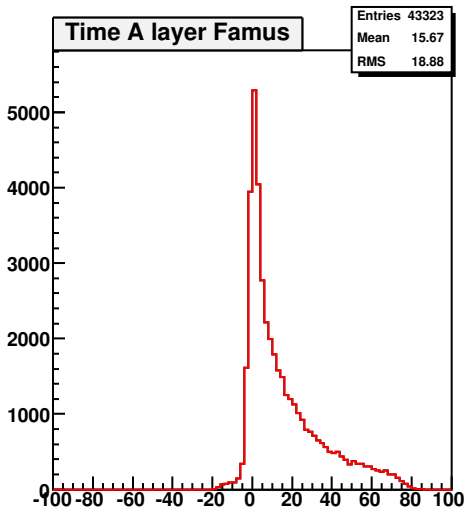

DTIME
Entries 219998
Mean 39.17
RMS 19.13

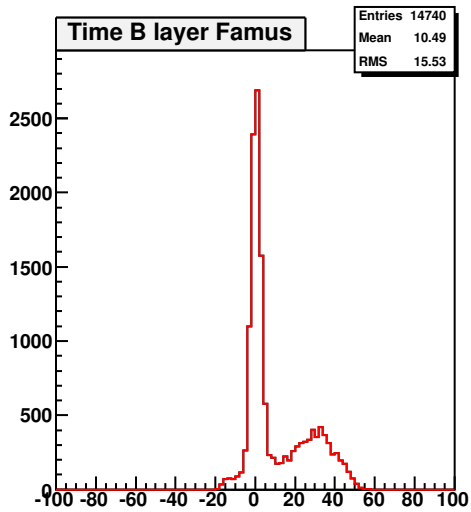
MuonMDT (All)

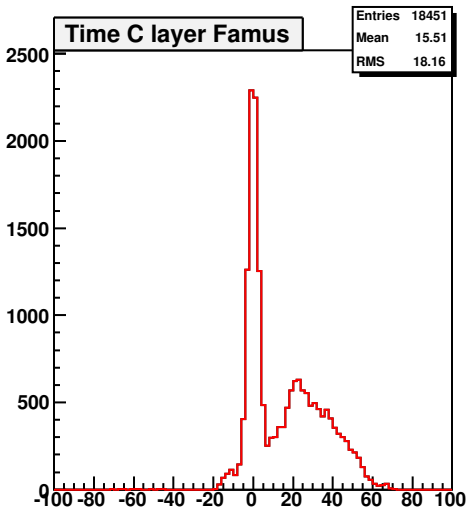

N
Entries 23016
Mean 5.557
RMS 3.213

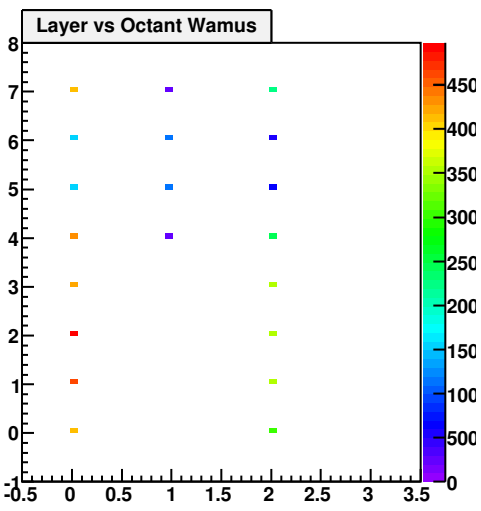

Time A layer Wamus
Entries 29546
Mean 11.25
RMS 17.86

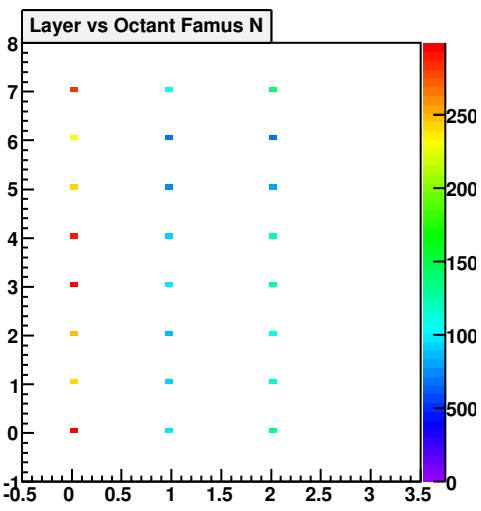

Time C layer Wamus
Entries 19500
Mean 17.2
RMS 23.81

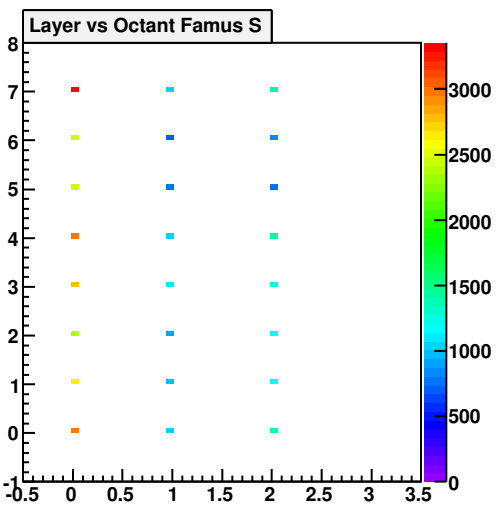

Time A layer Famus
Entries 43323
Mean 15.67
RMS 18.88


Time B layer Famus
Entries 14740
Mean 10.49
RMS 15.53

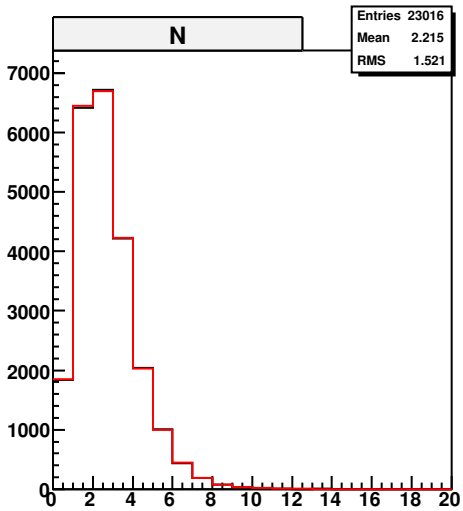

Time C layer Famus
Entries 18451
Mean 15.51
RMS 18.16

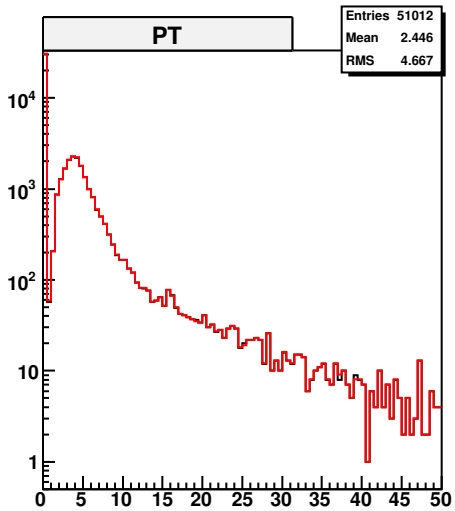

Layer vs Octant Wamus

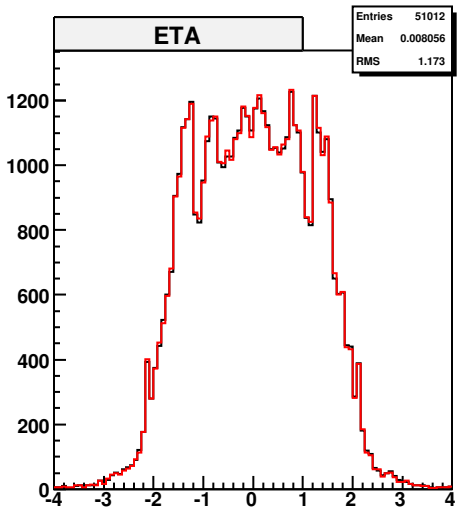

Layer vs Octant Famus N

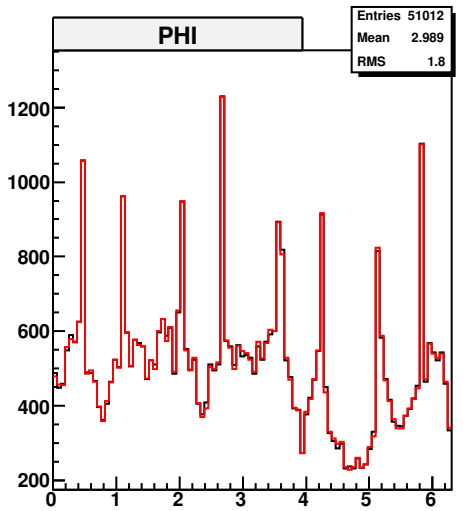

Layer vs Octant Famus S

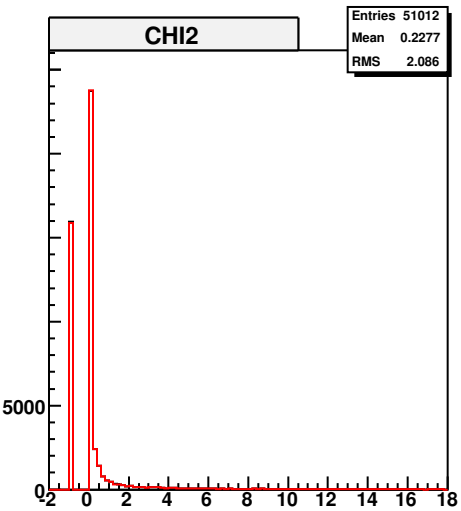
MuonMSC (All)

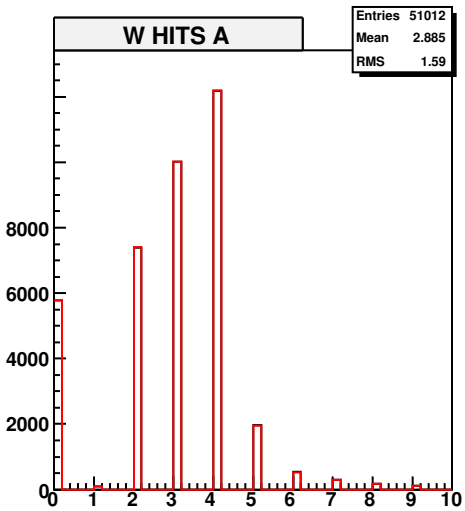


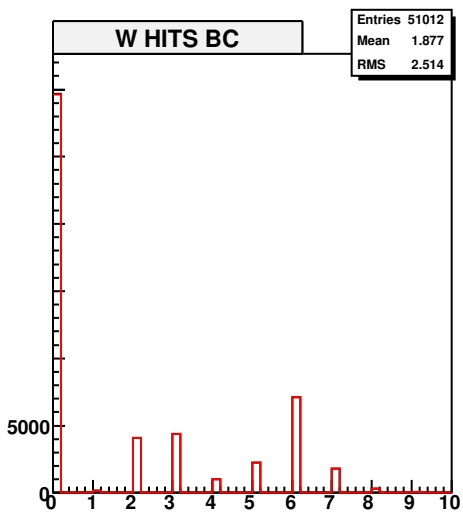


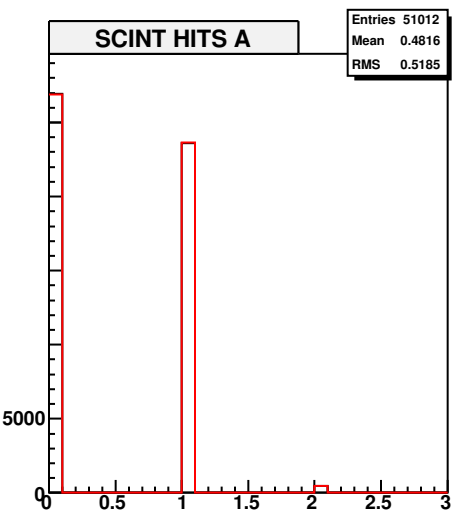


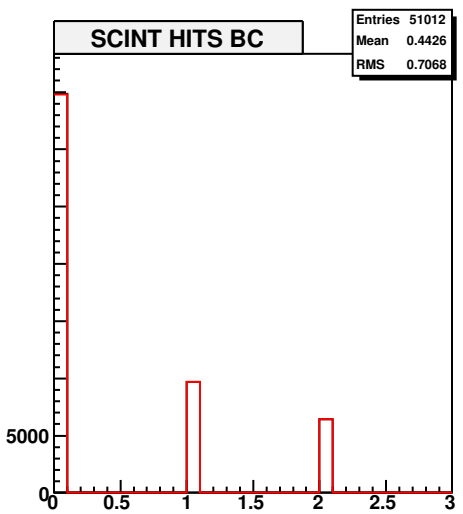




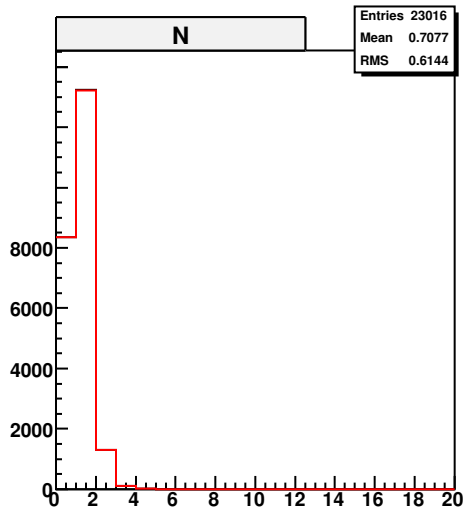


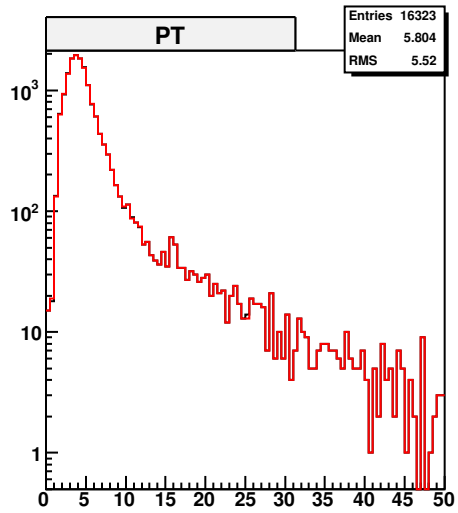


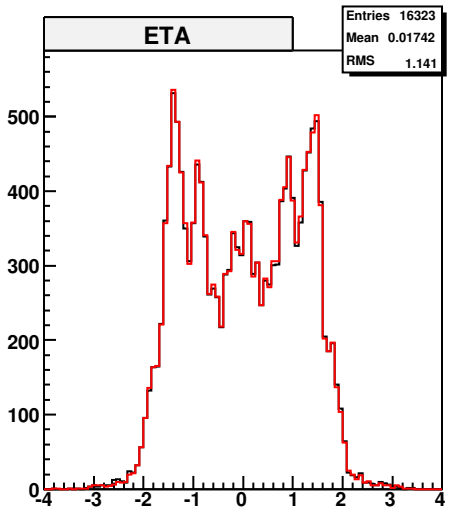


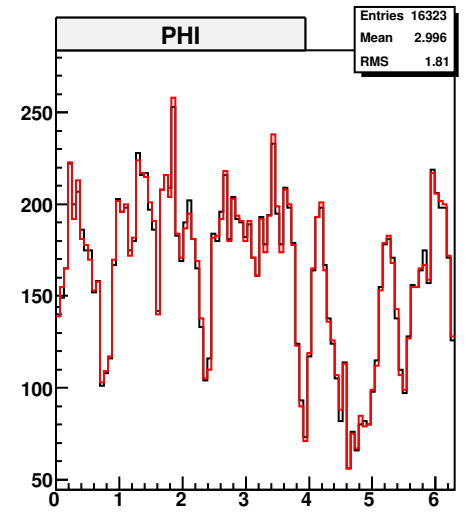


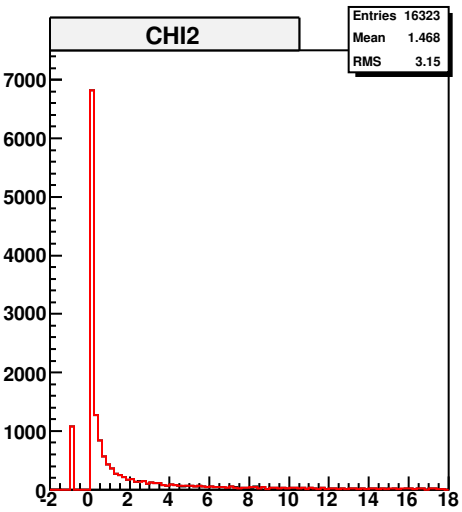
Muon Local Tracks (All)

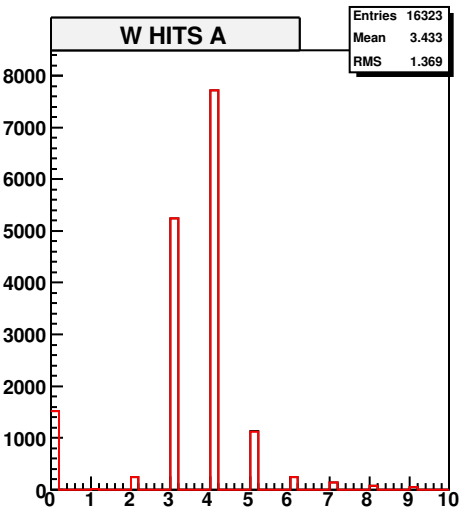


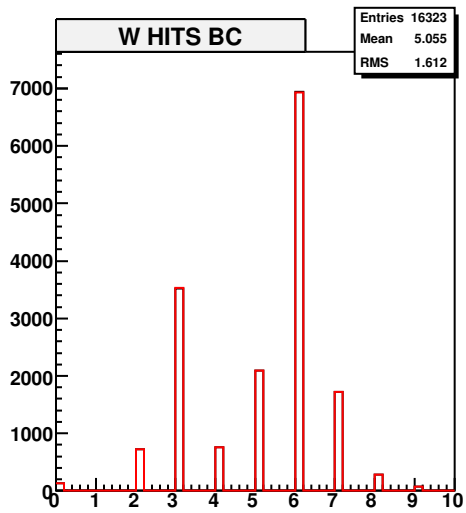


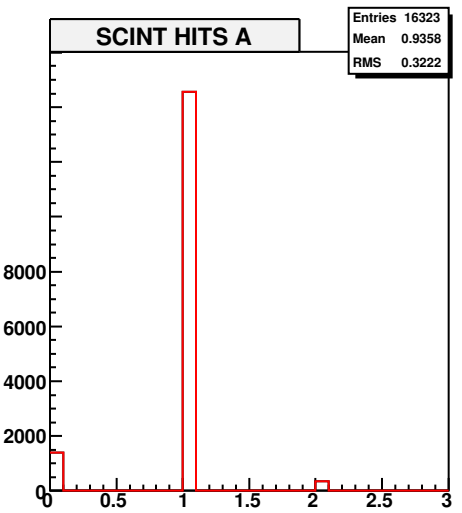


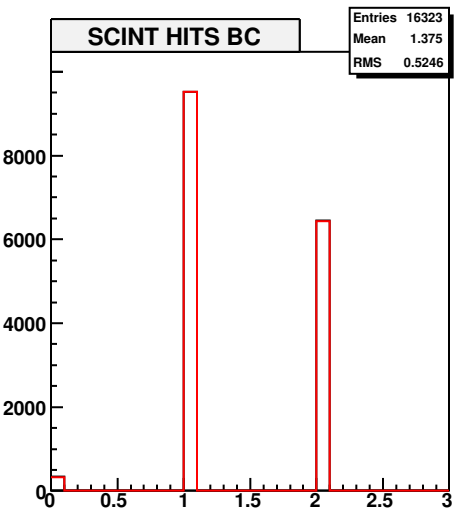




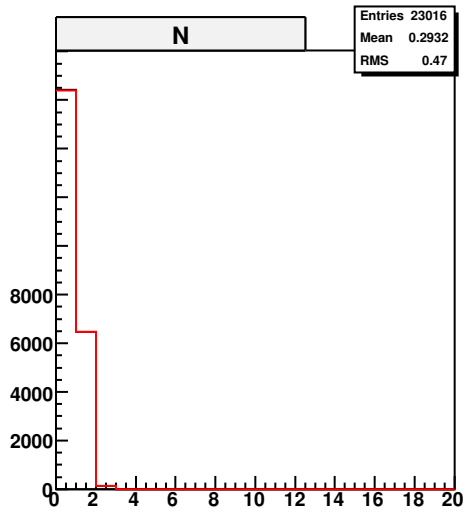


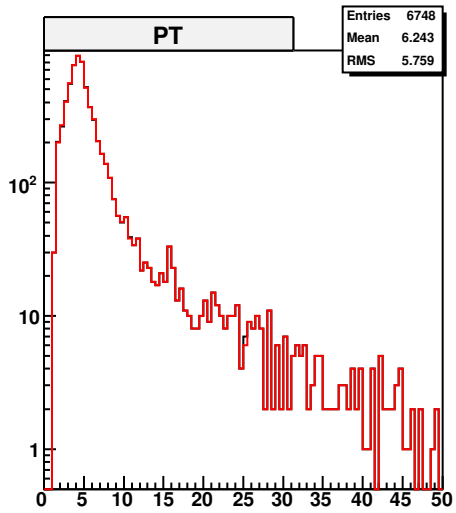


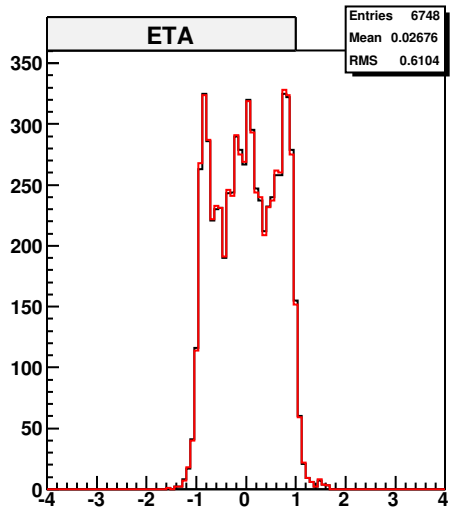


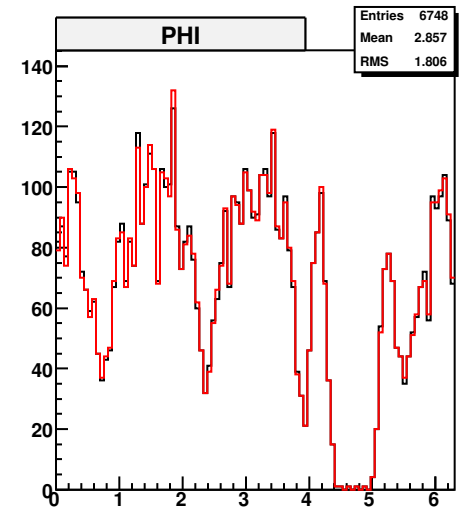


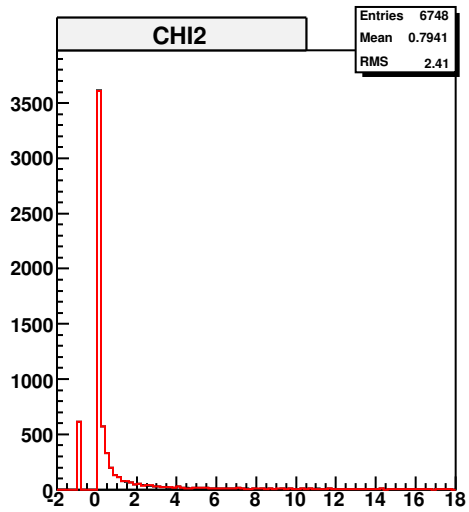
Muon Local Tracks (LooseWamus)

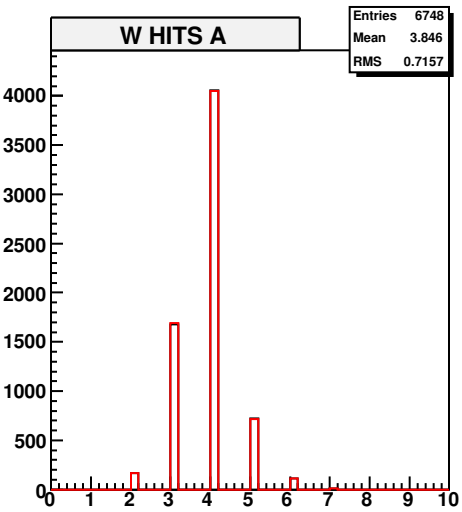


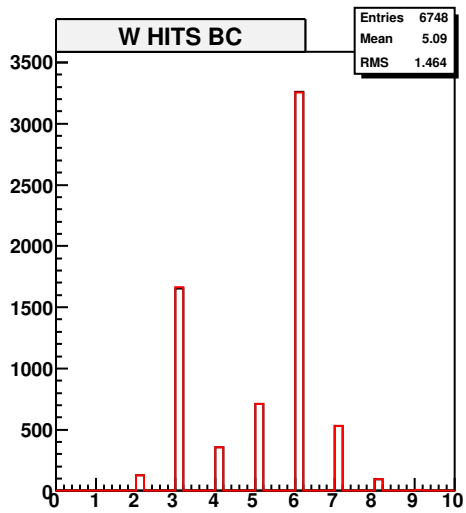


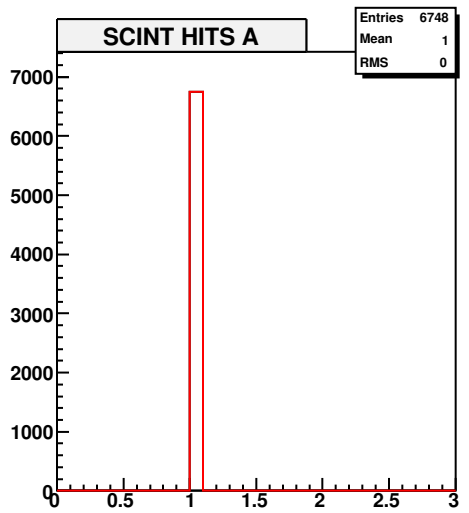


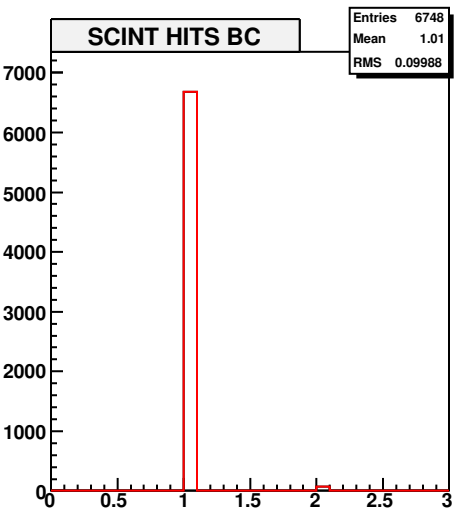




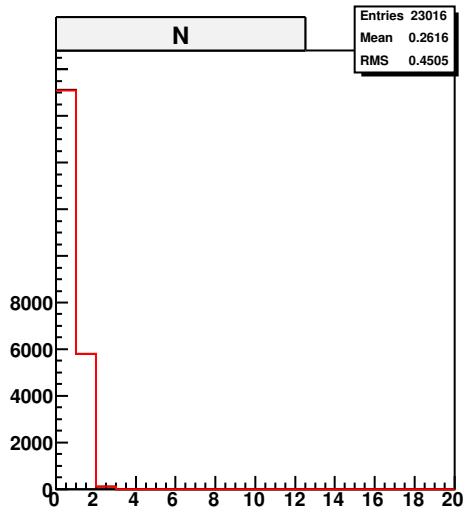


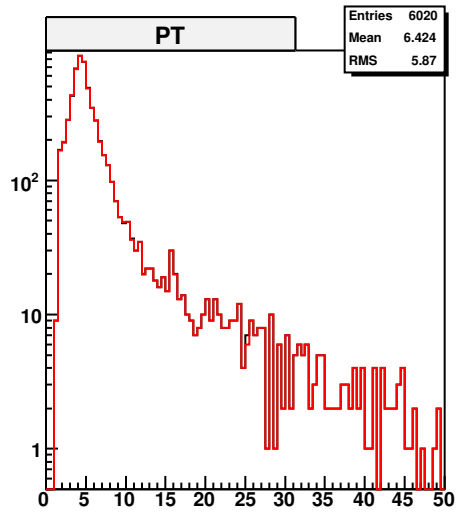


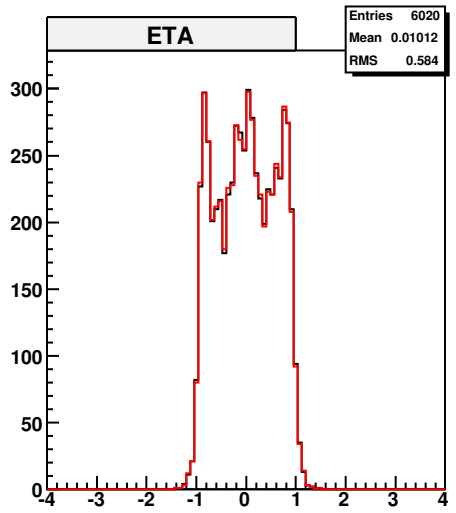


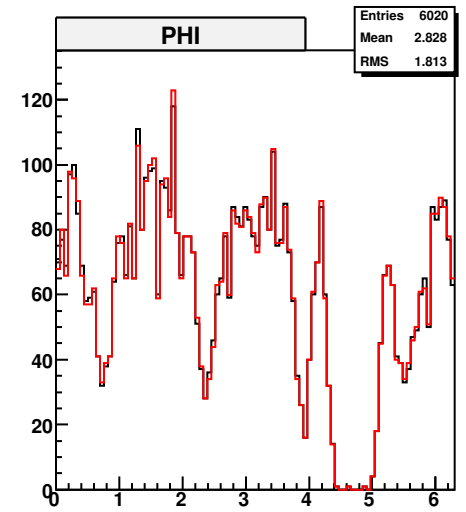


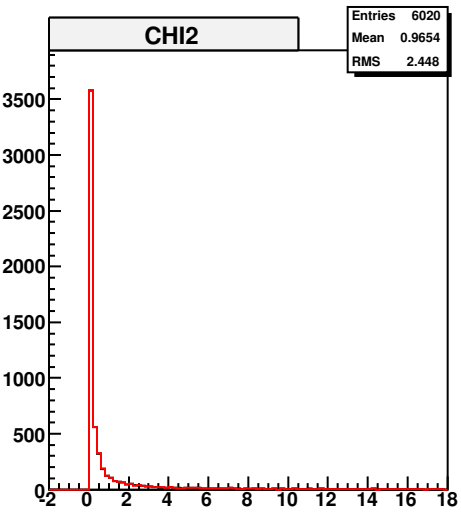
Muon Local Tracks (MediumWamus)

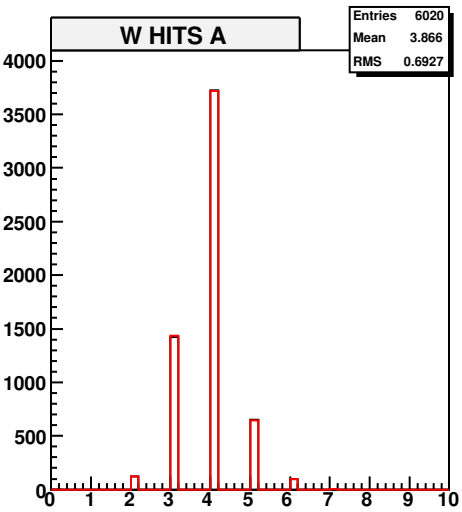


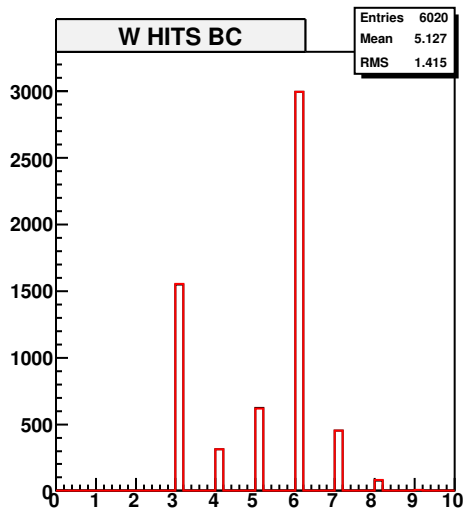


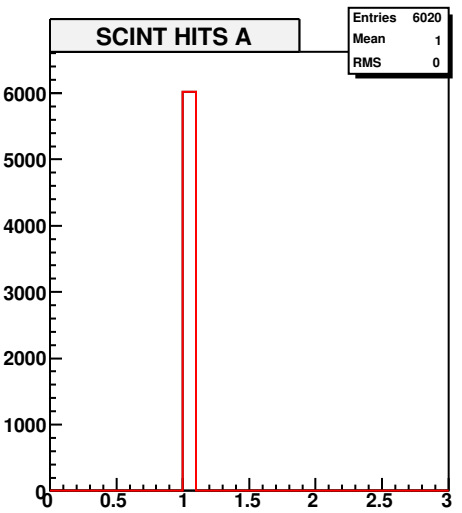


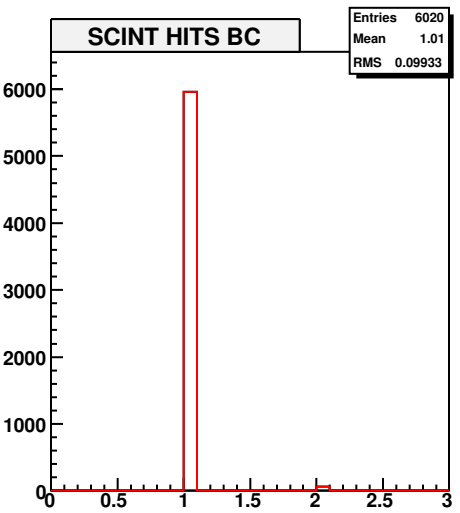




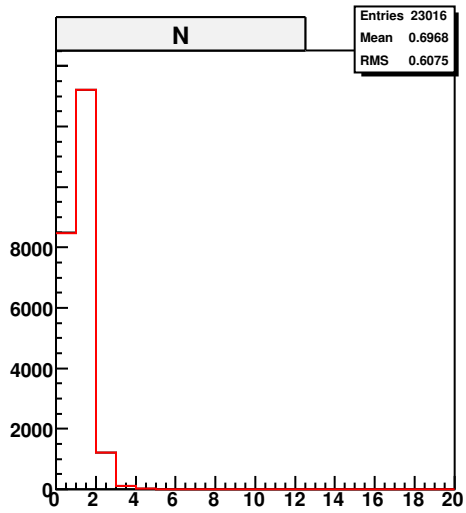


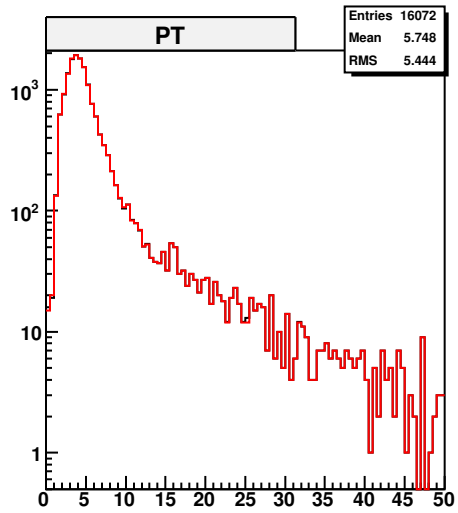


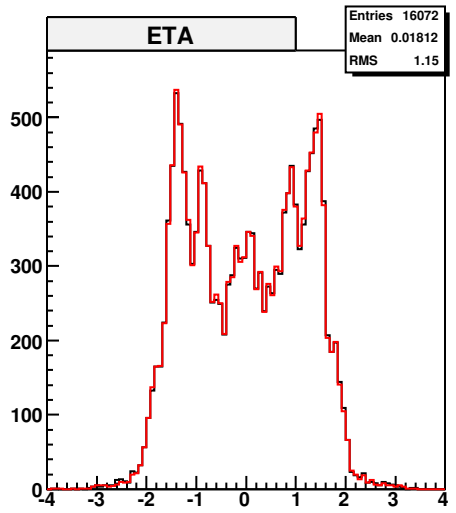


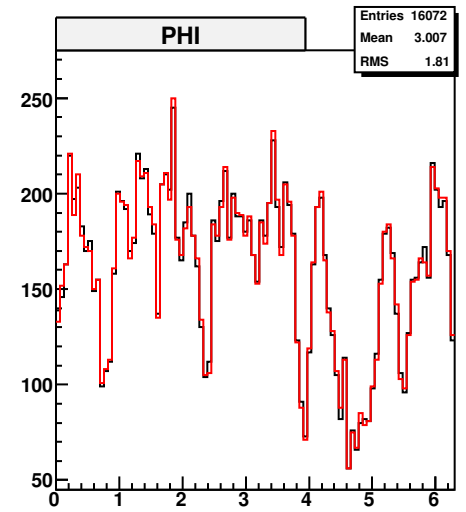


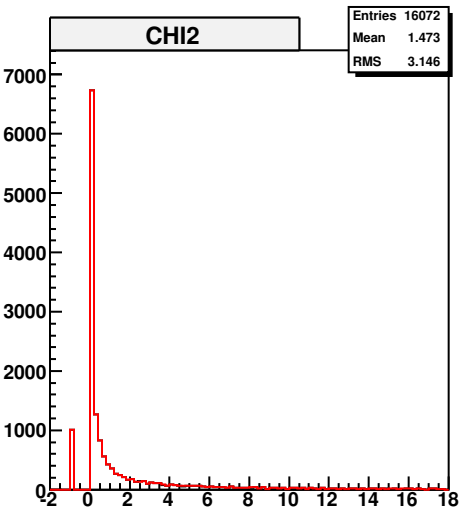
Muon Local Tracks (TightWamus)

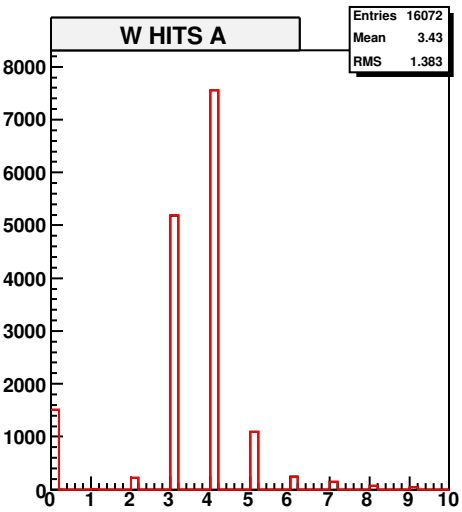


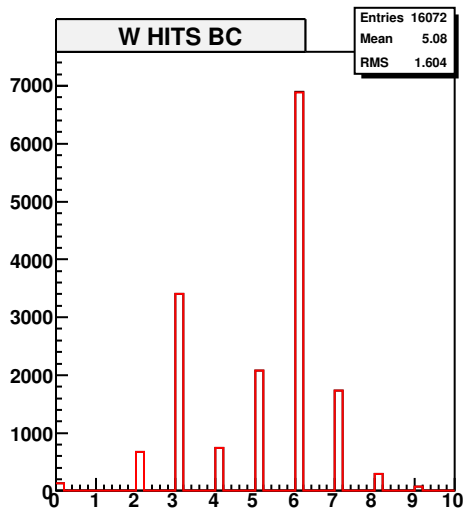


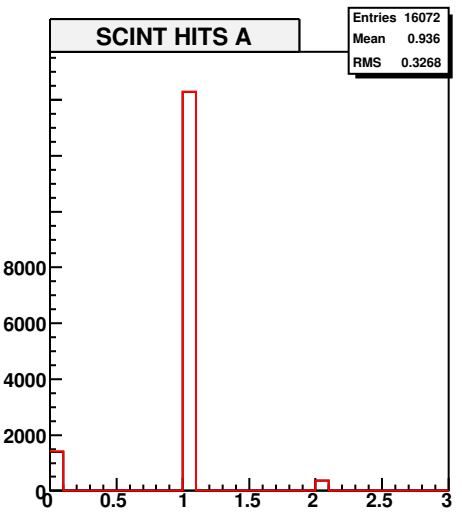


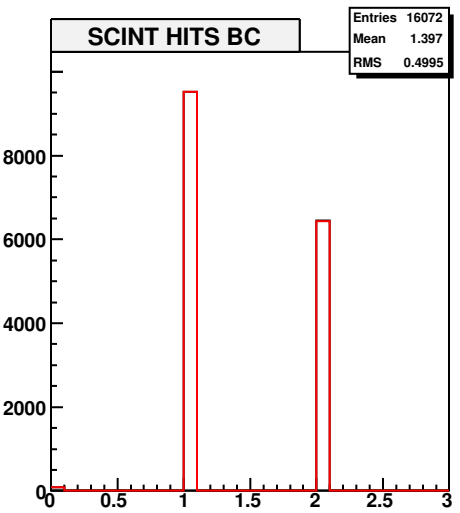




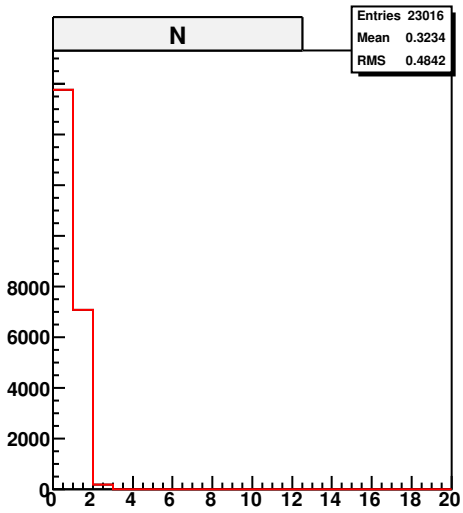


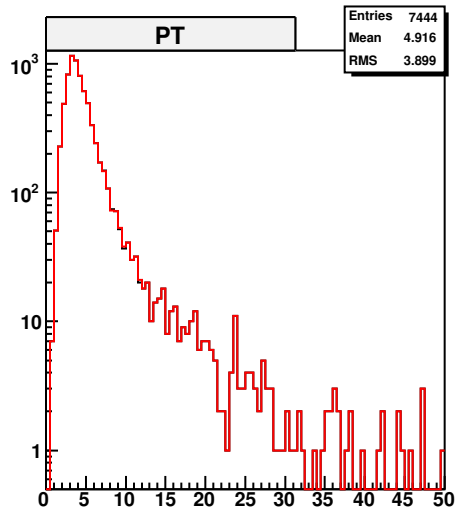


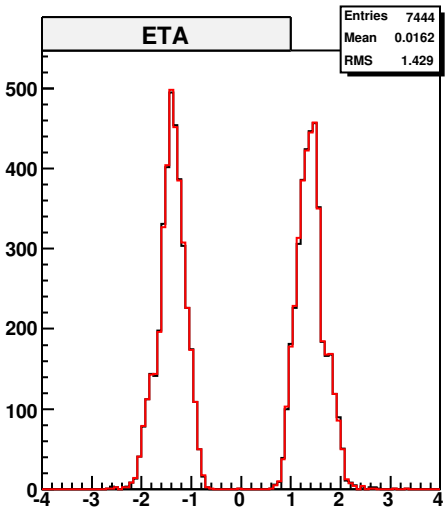


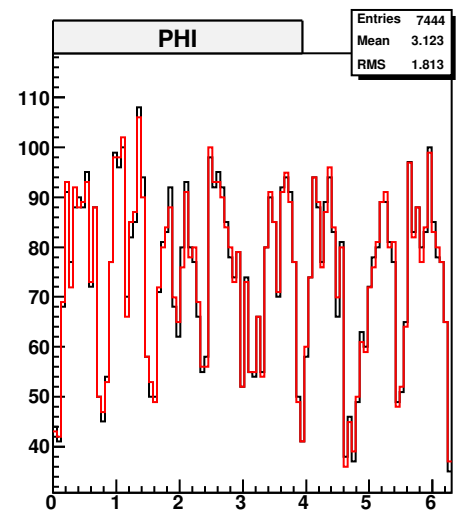


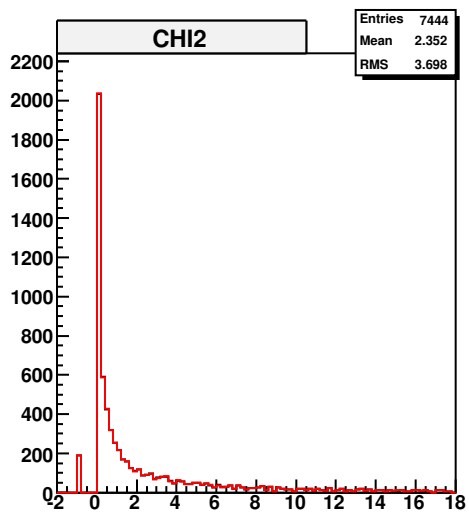
Muon Local Tracks (LooseFamus)

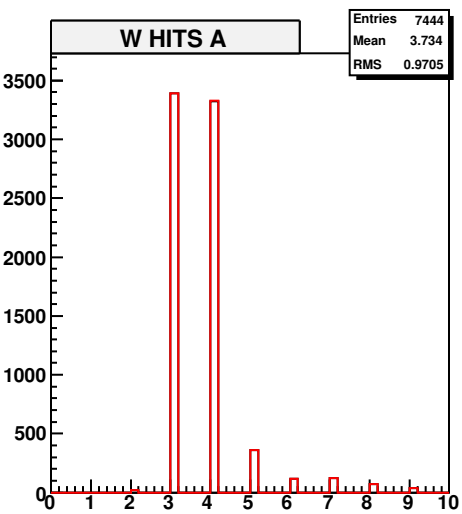


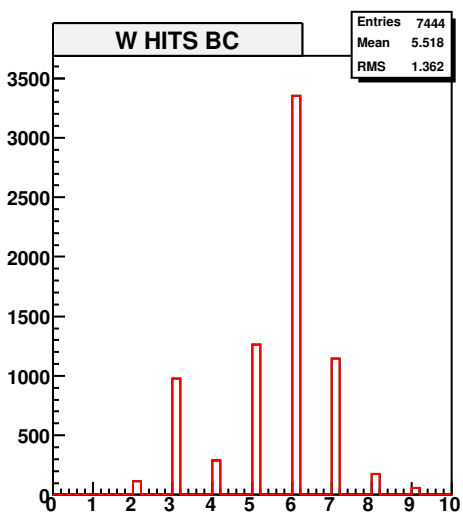


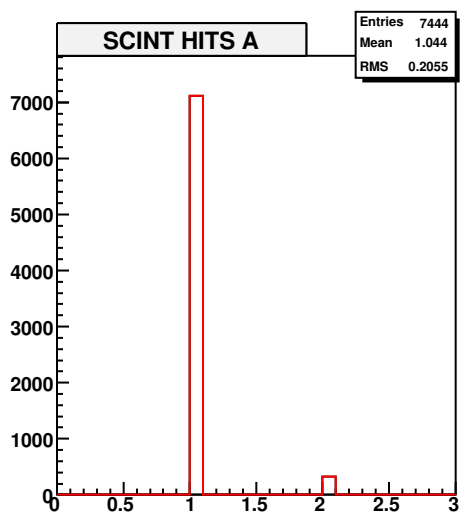


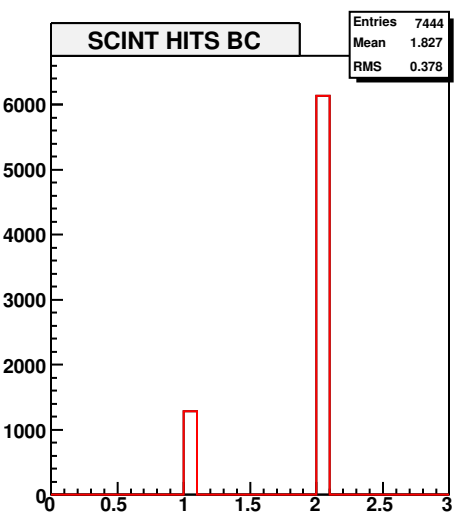




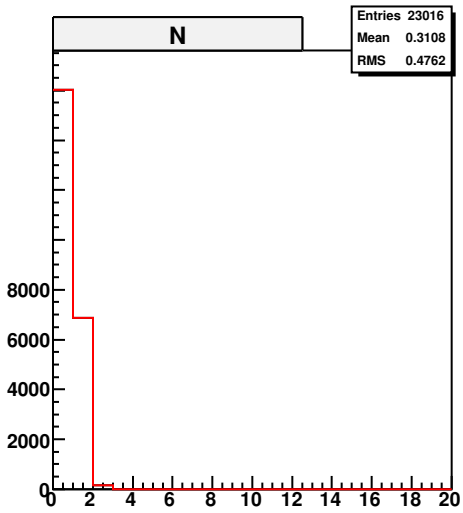


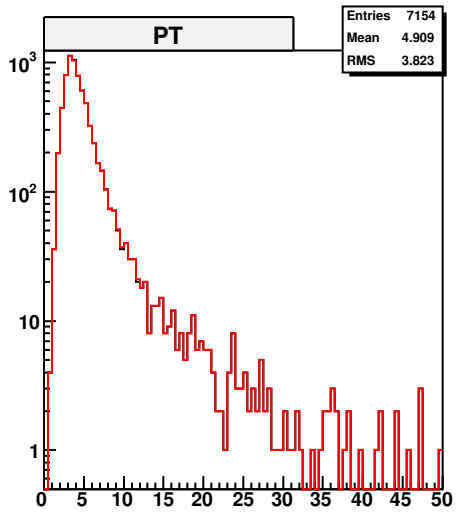


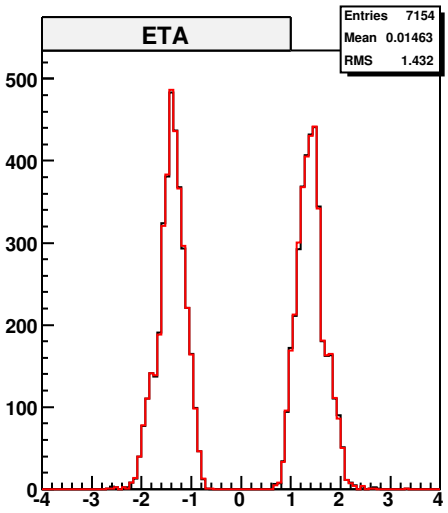


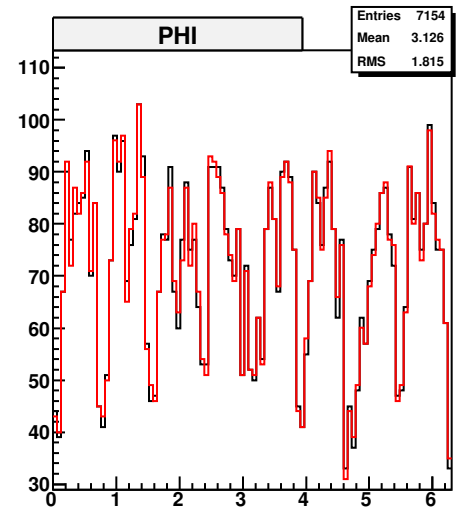


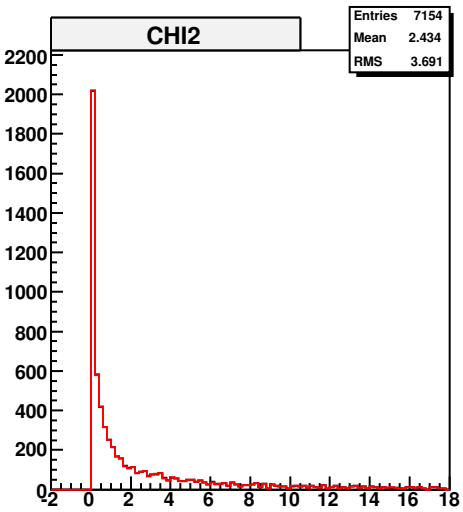
Muon Local Tracks (MediumFamus)

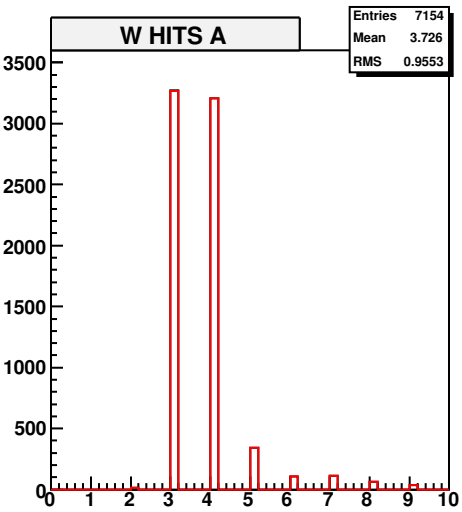


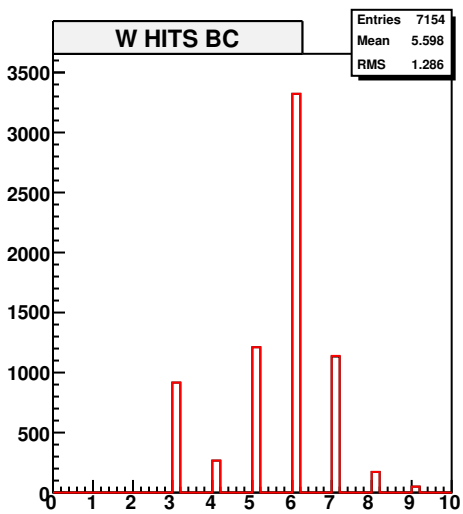


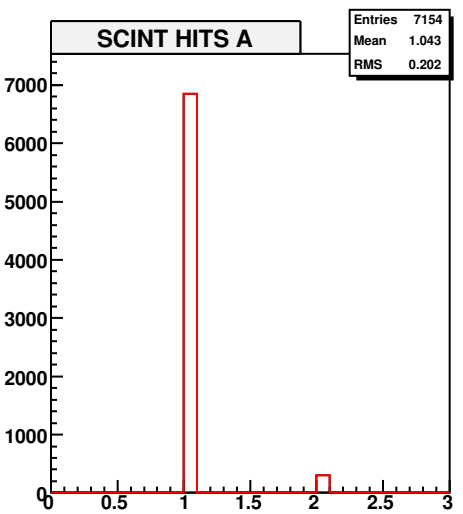


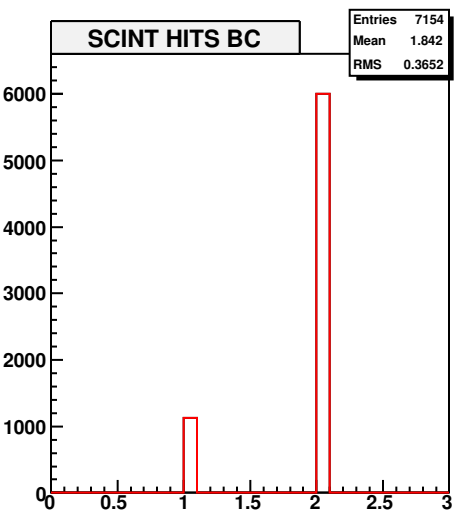




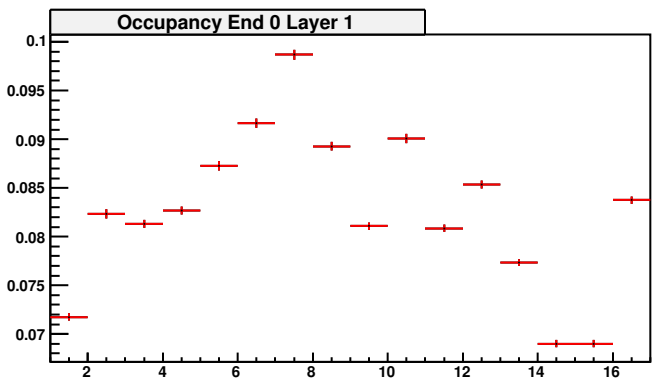


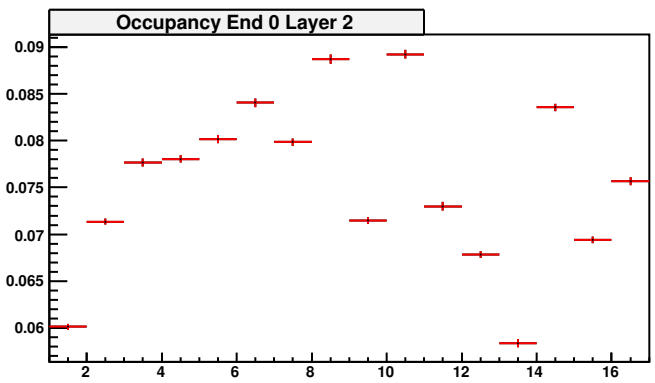


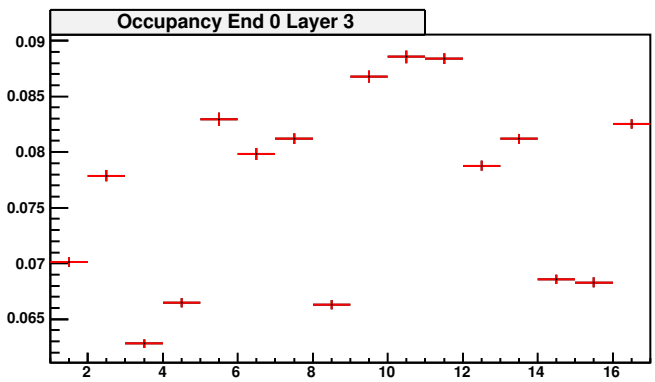


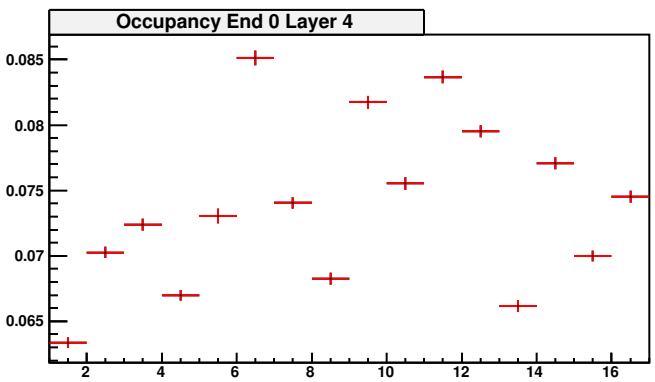


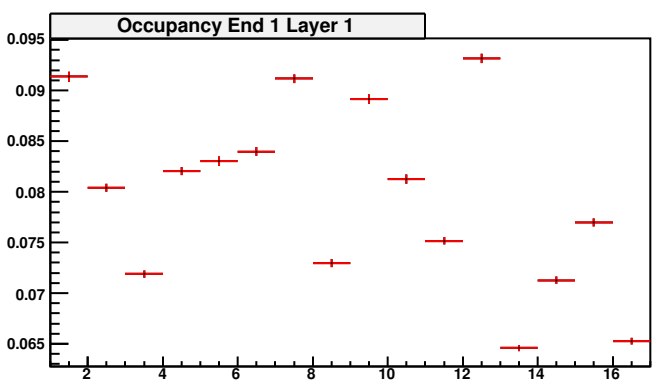
Muon Local Tracks (TightFamus)

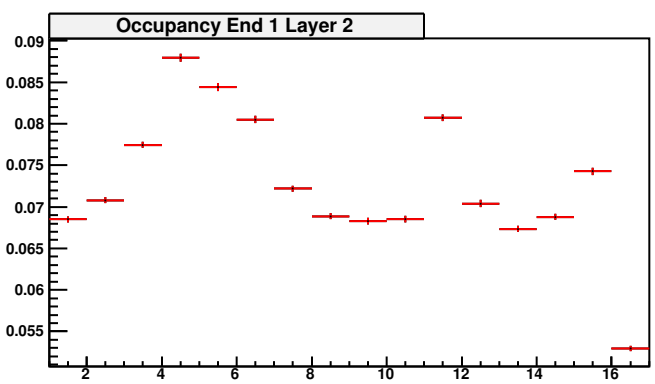


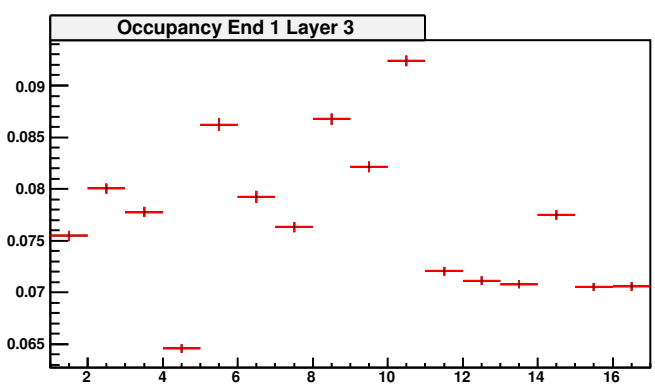


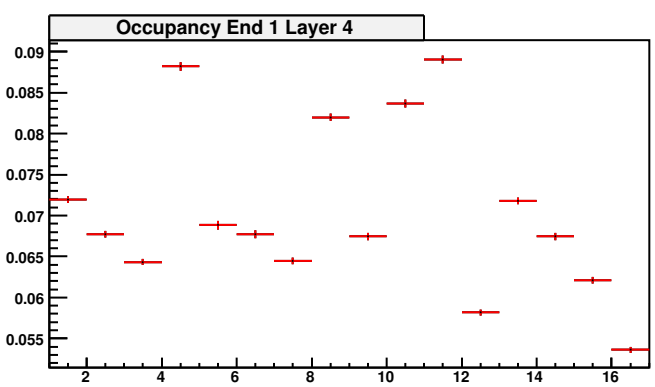




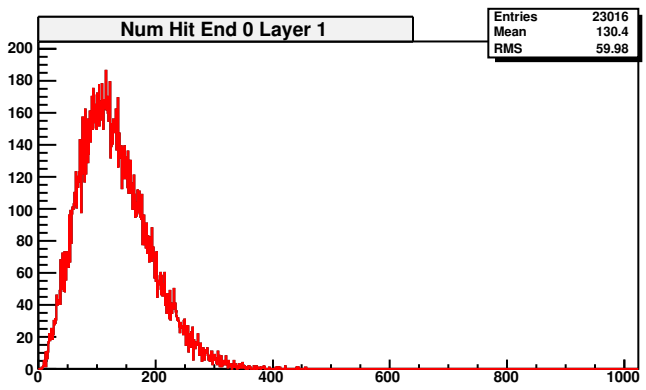


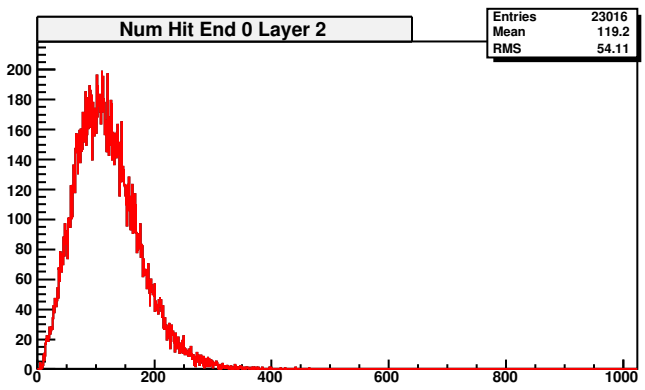


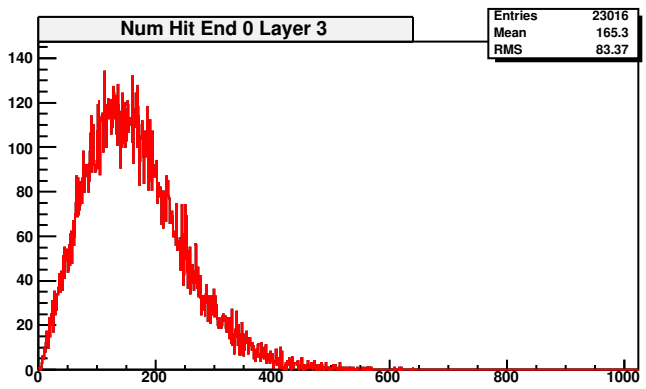


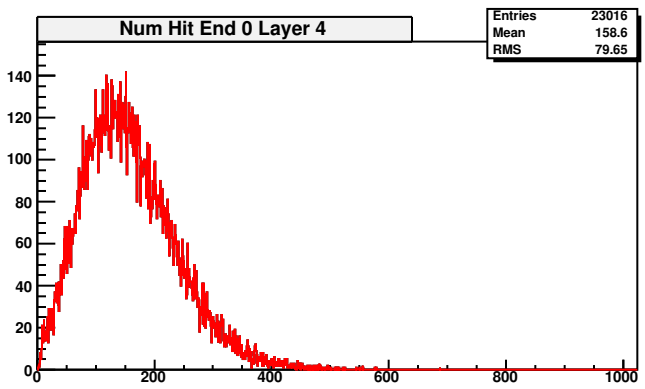


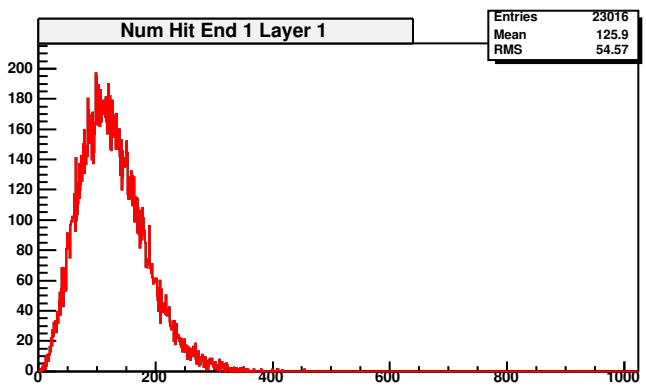
FPS Hit Occupancy (All)

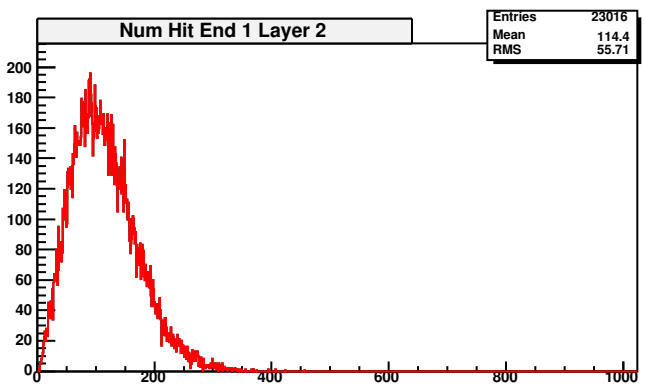


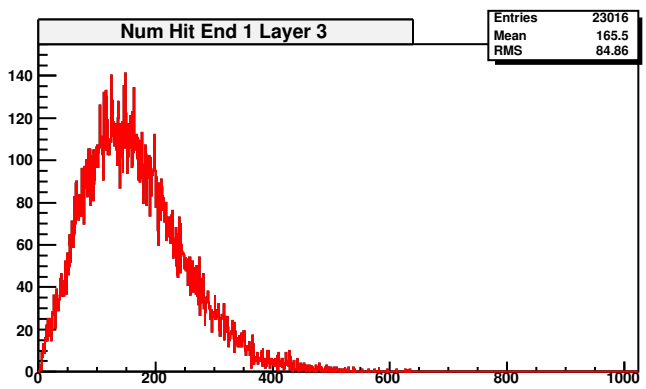


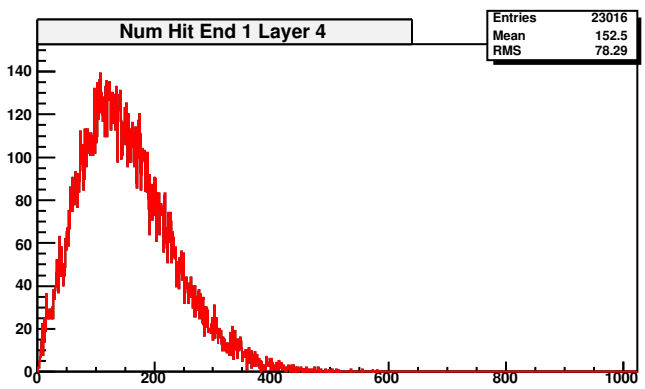




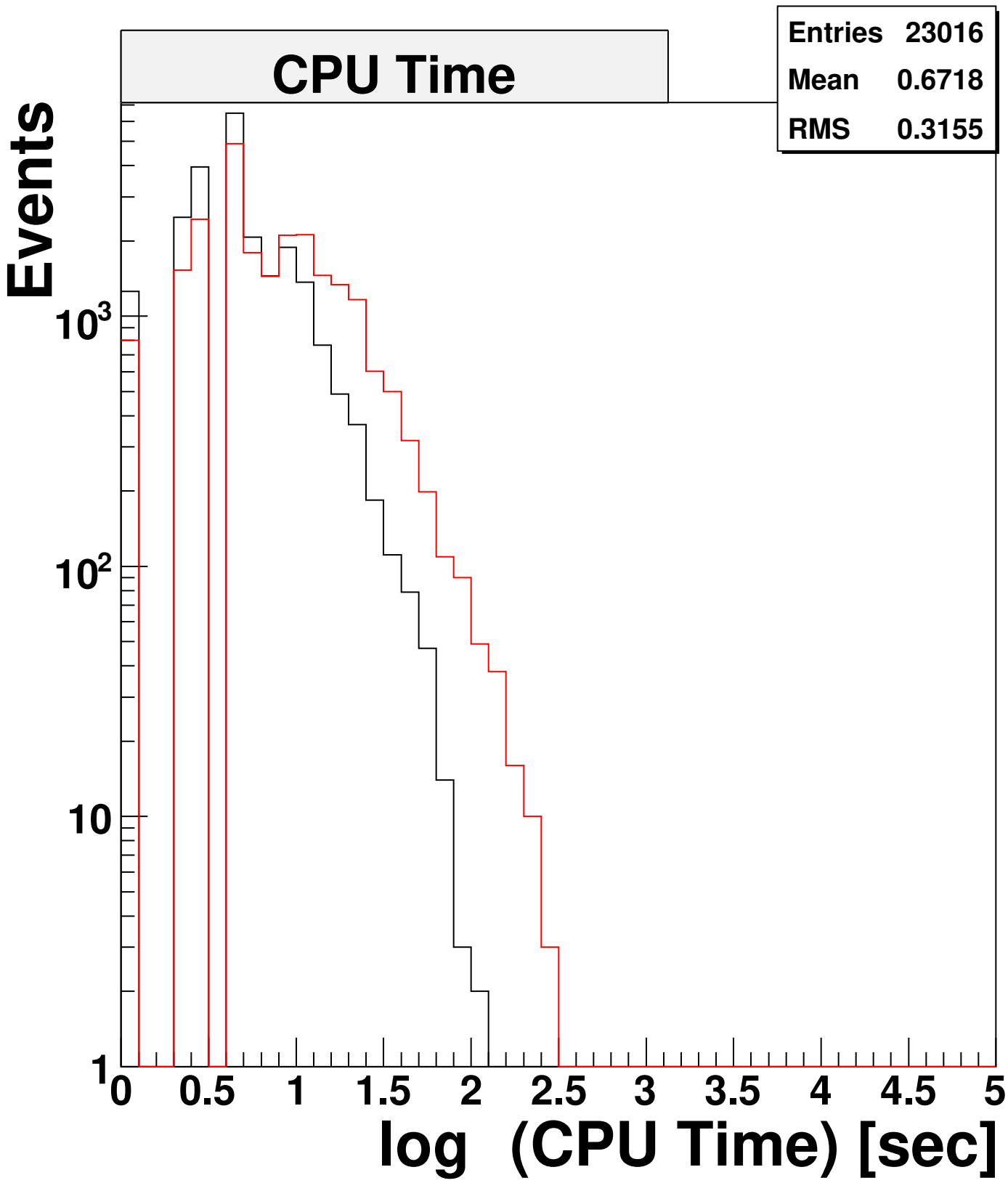








FPS Number of Hits (All)



RECO Performance (Timing)