# p1709tmb_highlumi.root
# p2001tmb_highlumi.root


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**Page 4: Tracks Hits (All)**
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**Page 7: Tracking (Efficiency - InJets)**
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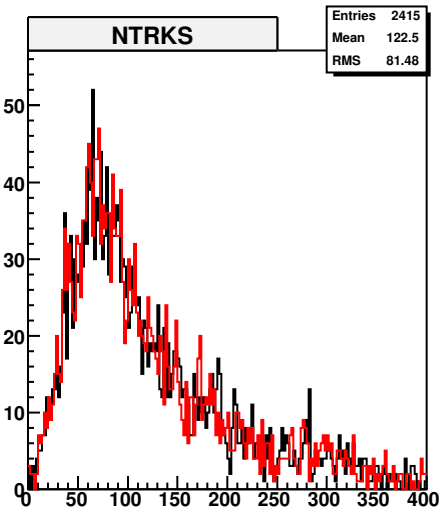
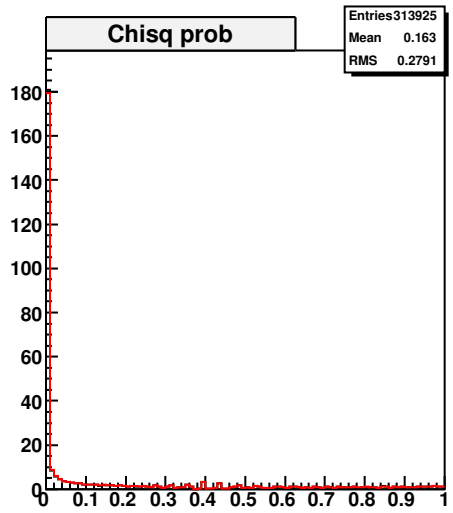
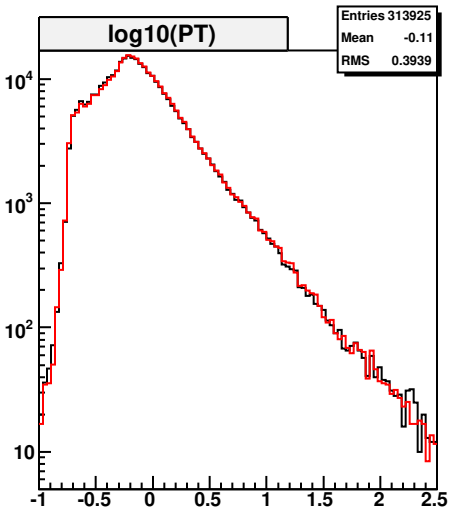
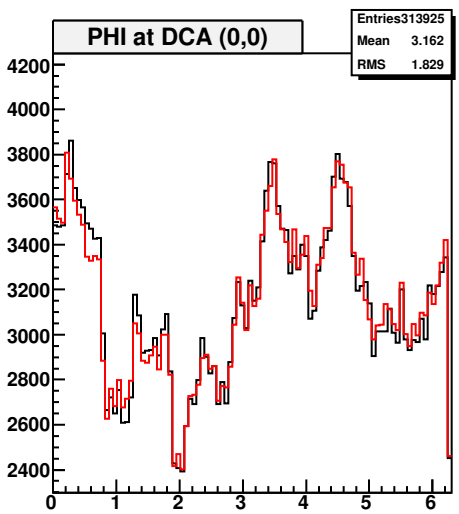
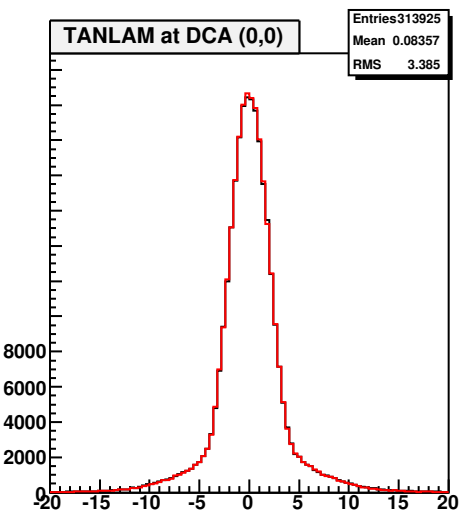
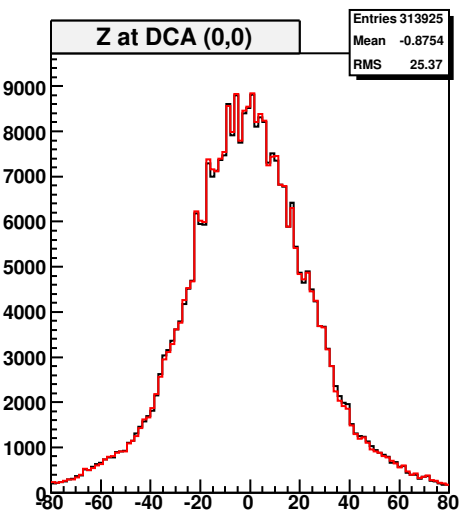

NTRKS
Entries 2415
Mean 122.5
RMS 81.48

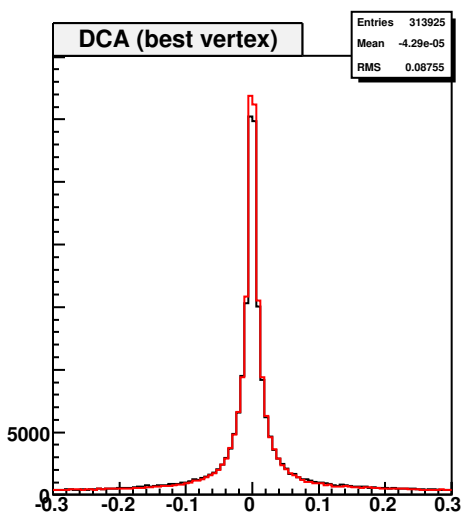

Chisq prob
Entries313925
Mean 0.163
RMS 0.2791

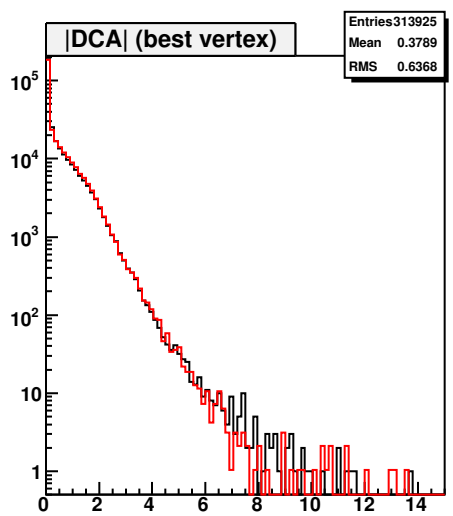

log10(PT)
Entries 313925
Mean -0.11
RMS 0.3939

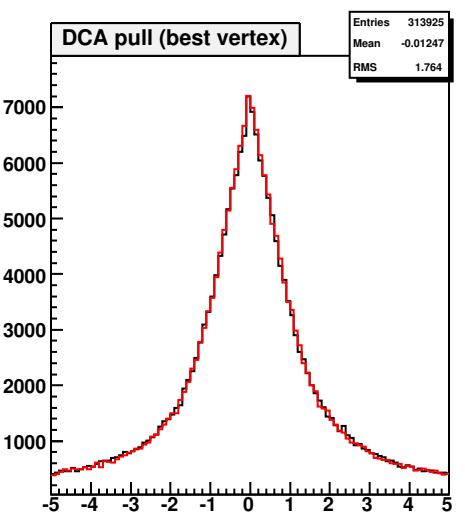

PHI at DCA (0,0)
Entries313925
Mean 3.162
RMS 1.829


TANLAM at DCA (0,0)
Entries313925
Mean 0.08357
RMS 3.385

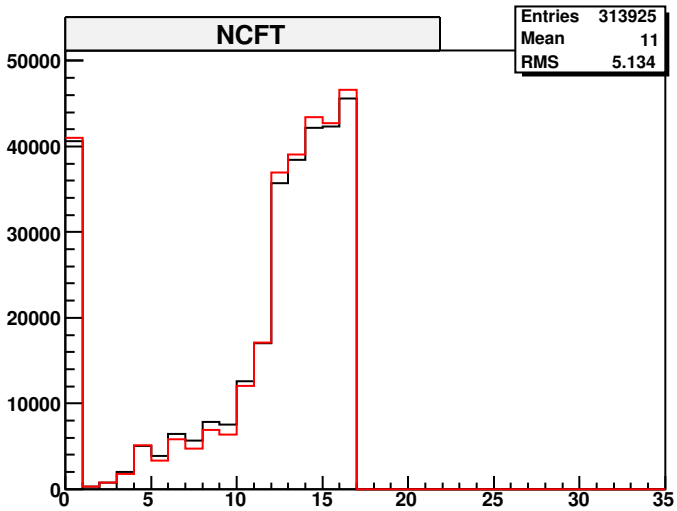

Z at DCA (0,0)
Entries 313925
Mean -0.8754
RMS 25.37

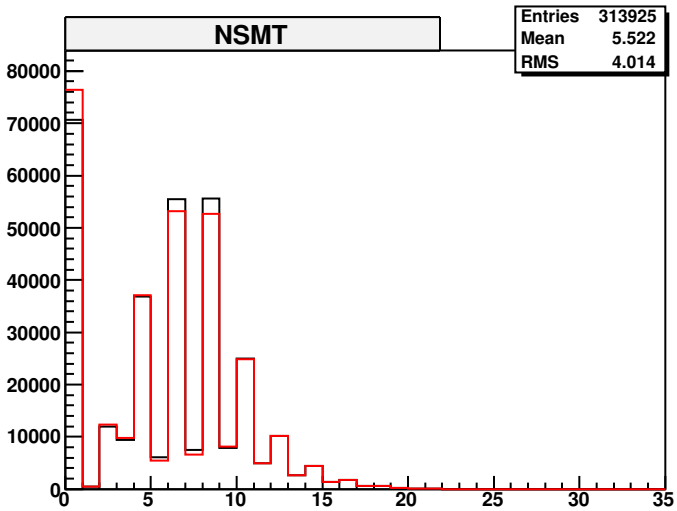

DCA (best vertex)
Entries 313925
Mean -4.29e-05
RMS 0.08755

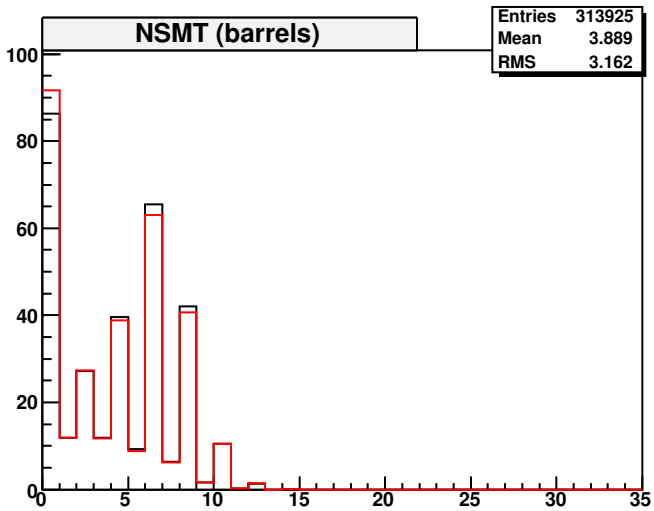

|DCA| (best vertex)
Entries313925
Mean 0.3789
RMS 0.6368

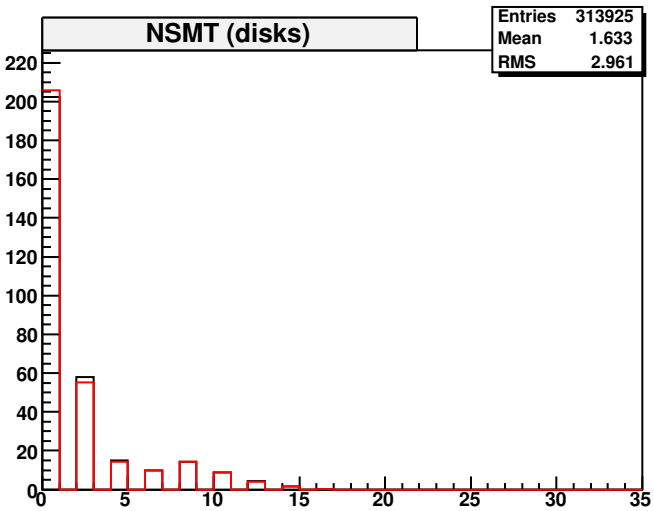

DCA pull (best vertex)
Entries 313925
Mean -0.01247
RMS 1.764

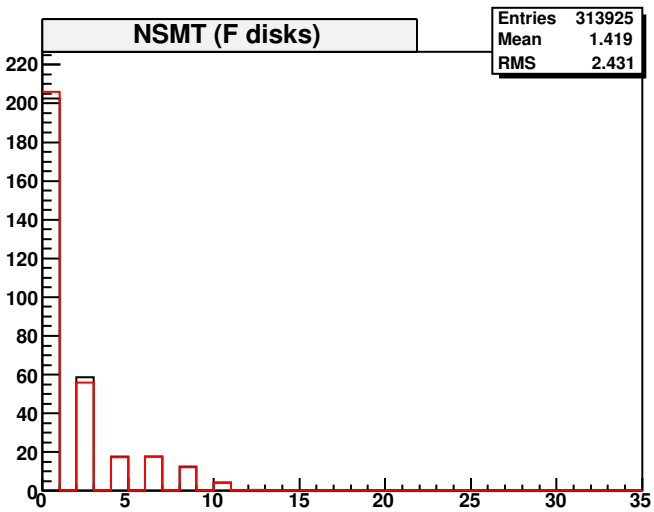
# Tracks (All)

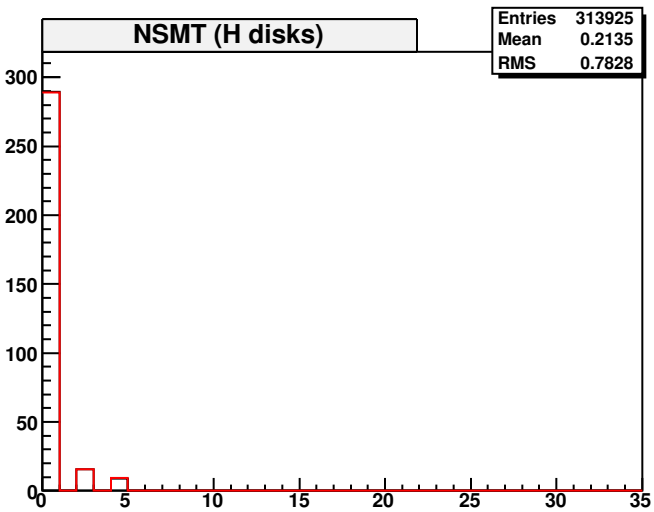


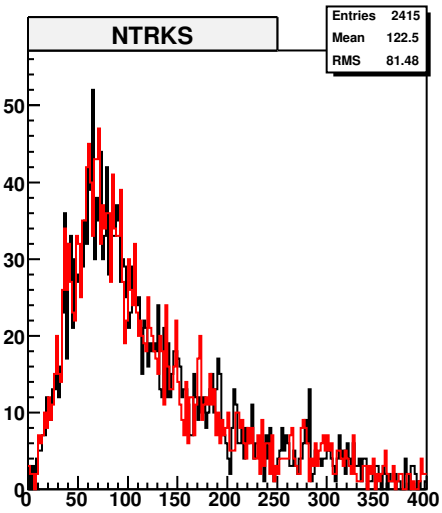



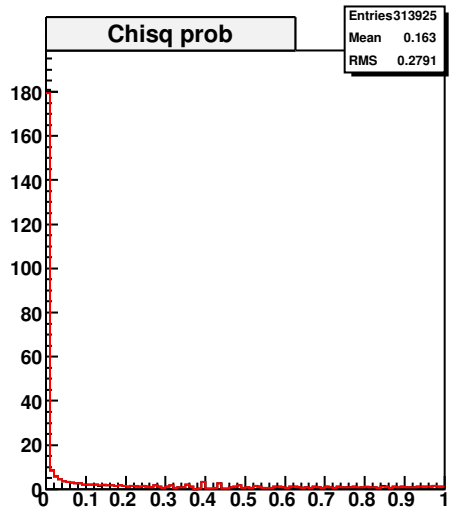



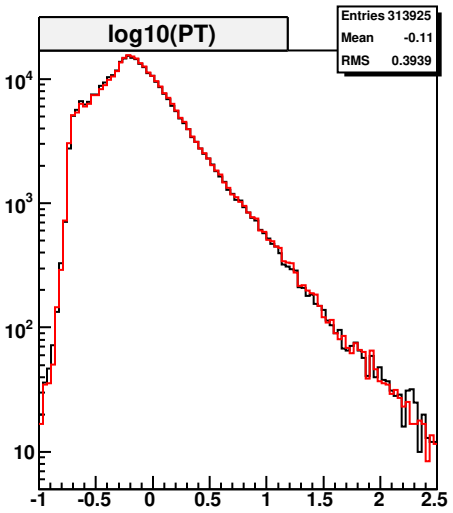



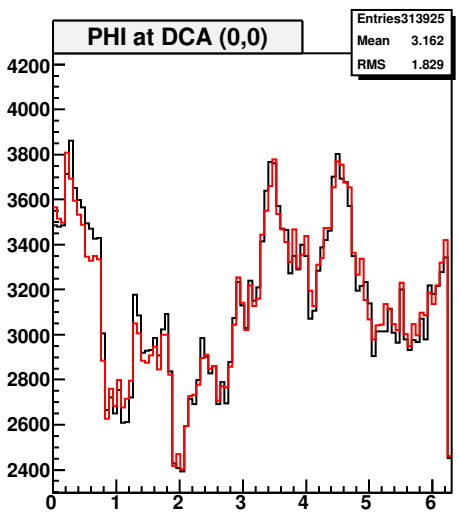



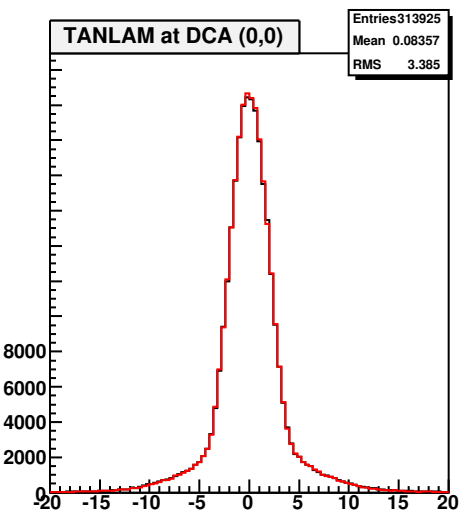

**Track Hits (All)**

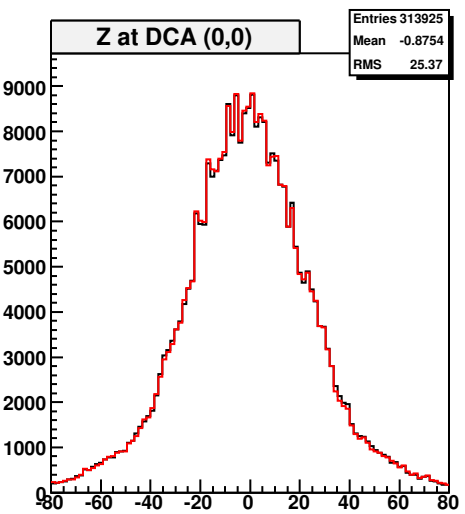


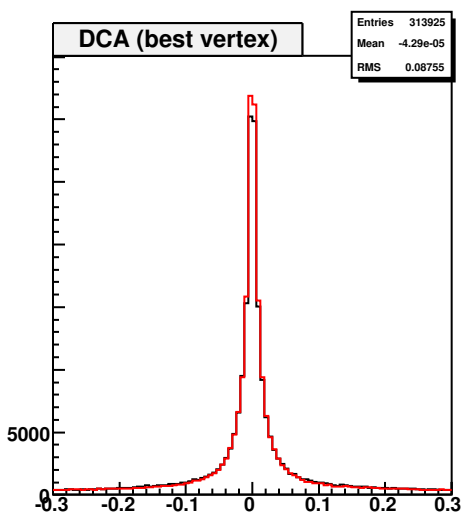



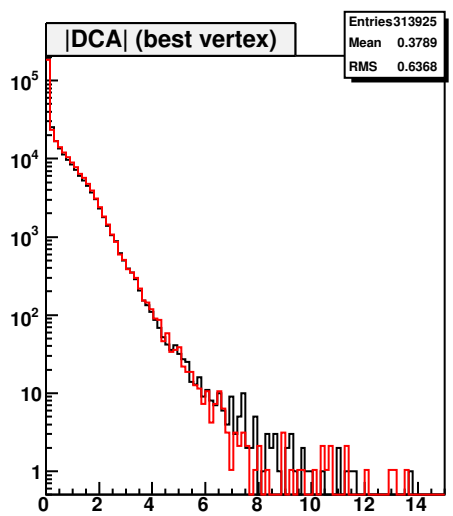



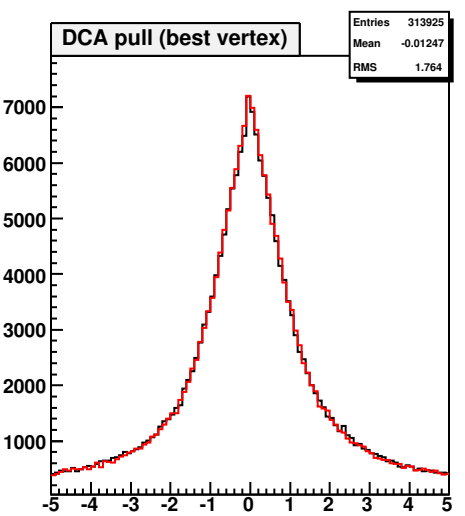



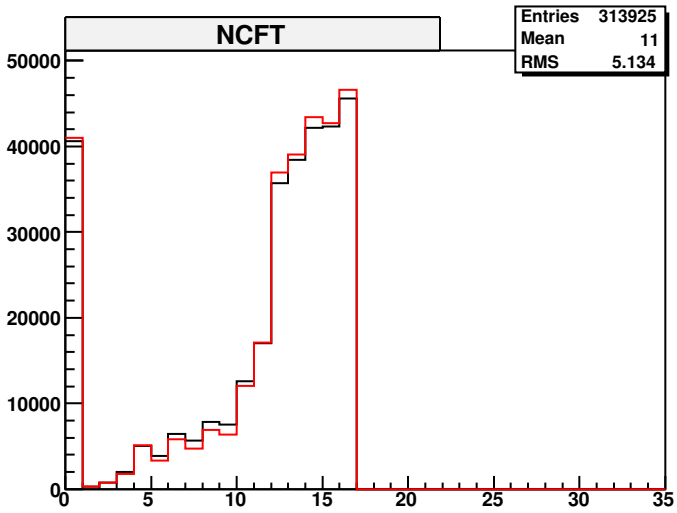



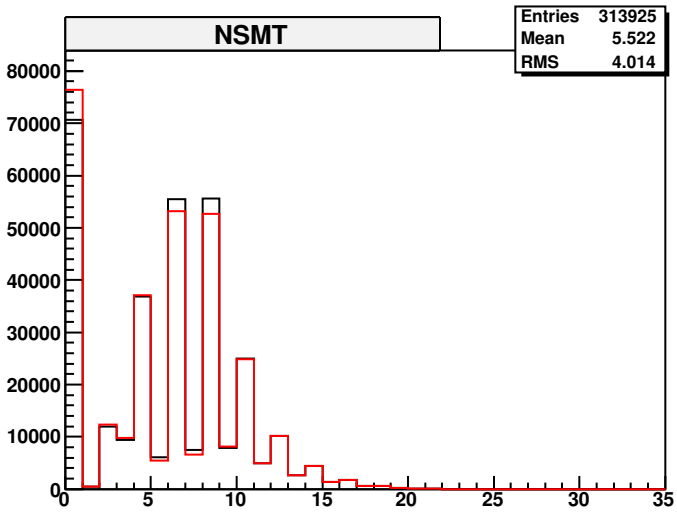



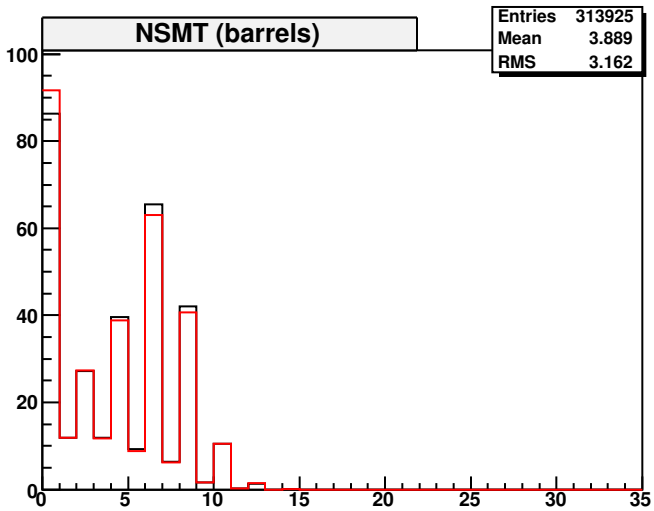



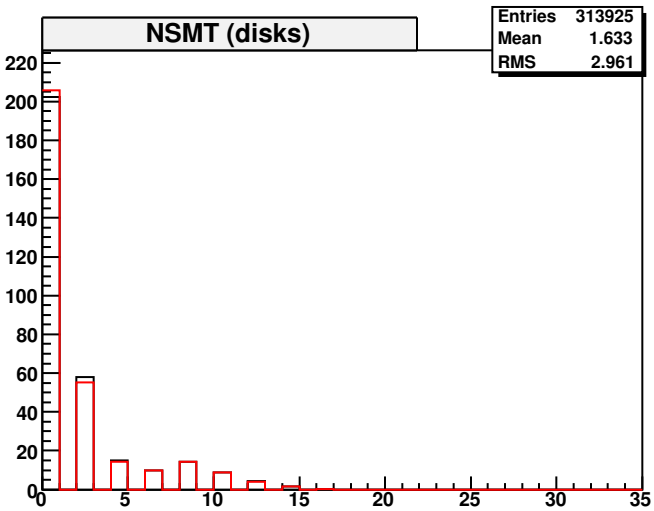



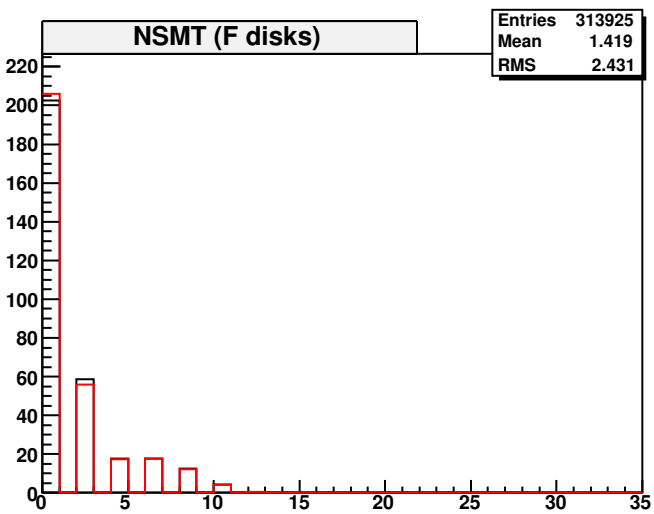

# Tracks (Tight)

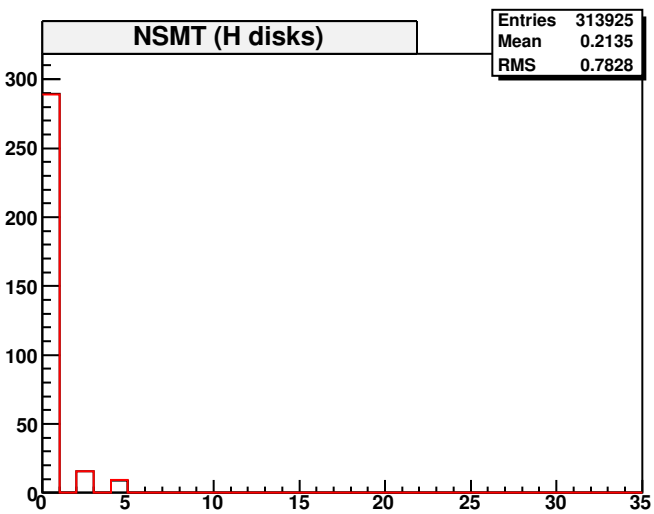


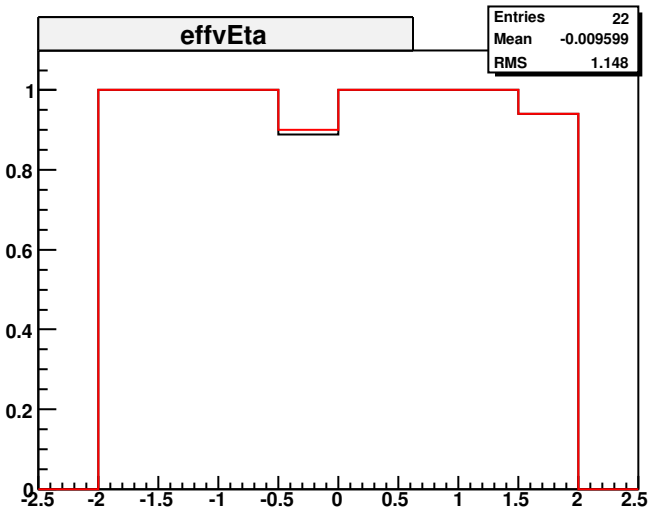



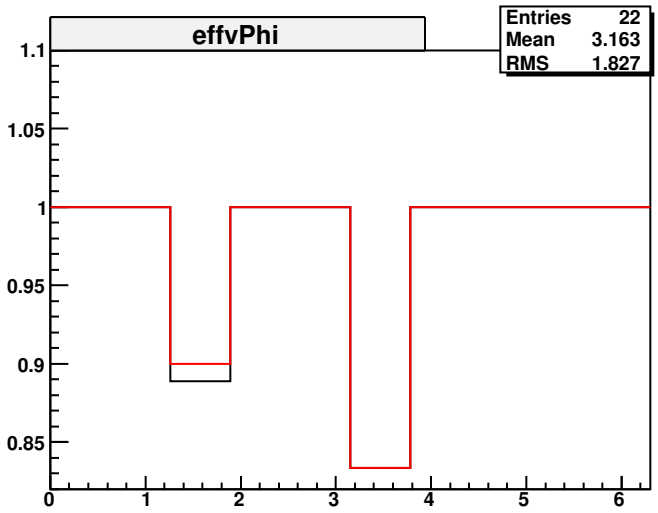



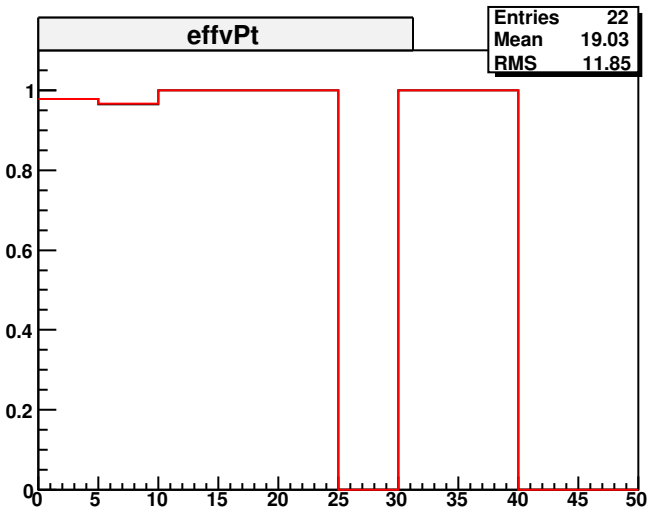



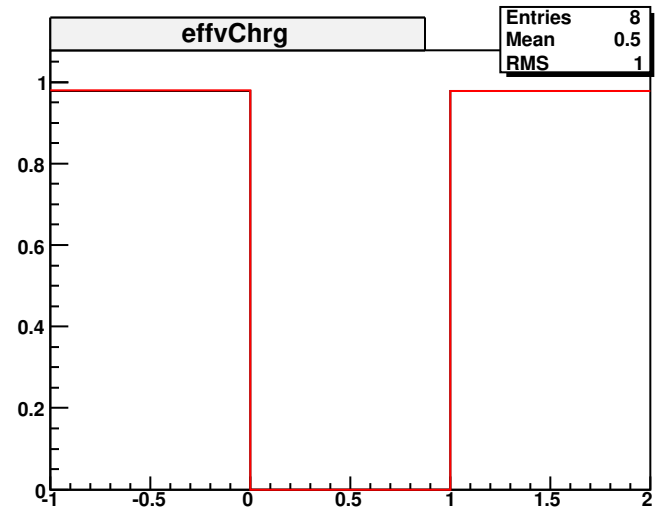



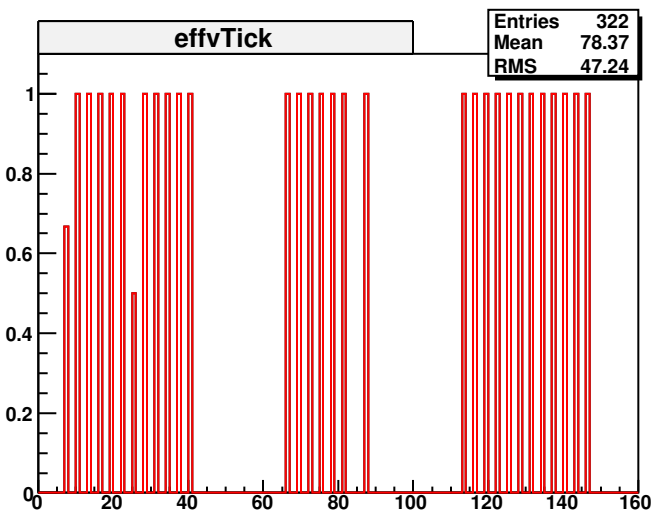

**Track Hits (Tight)**

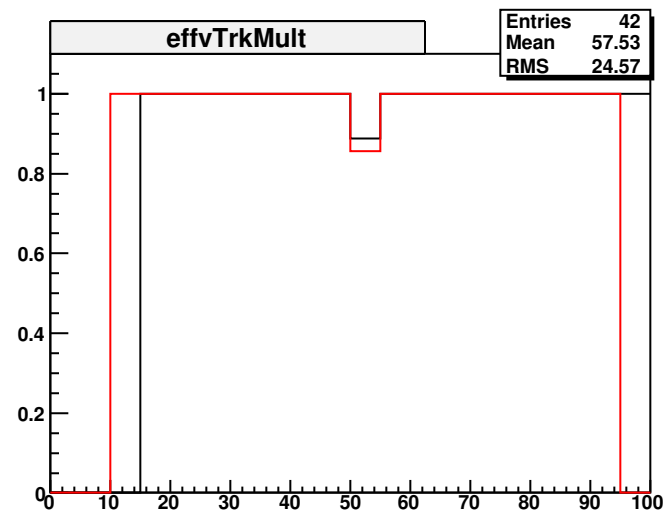


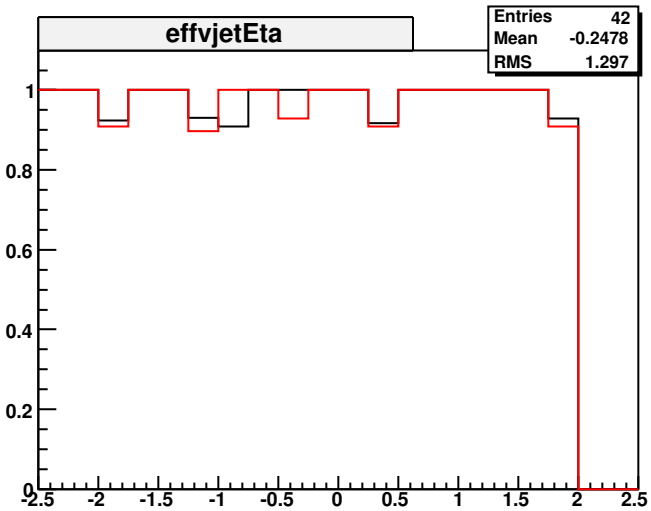



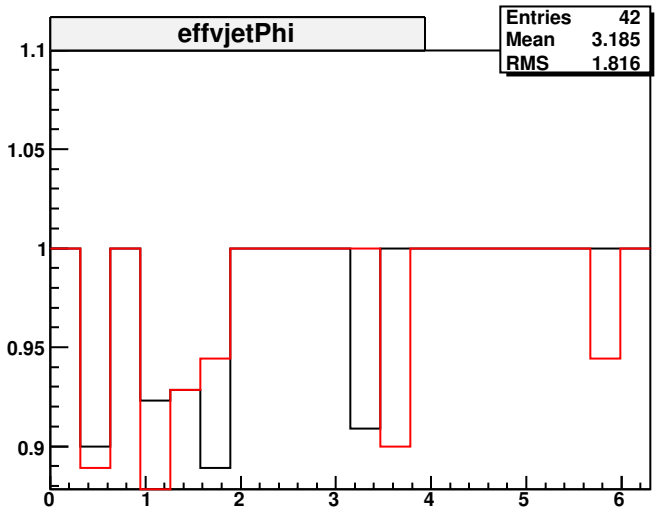



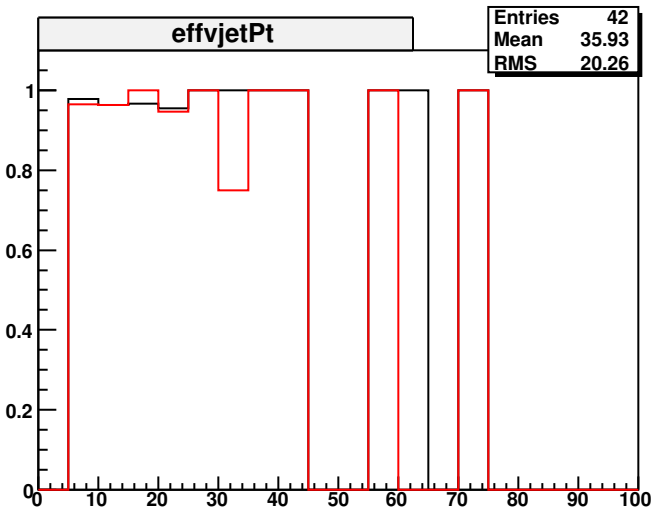



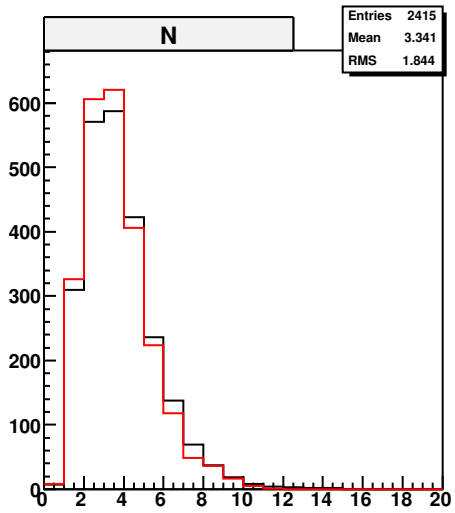

# Tracking (Efficiency-Isolated)

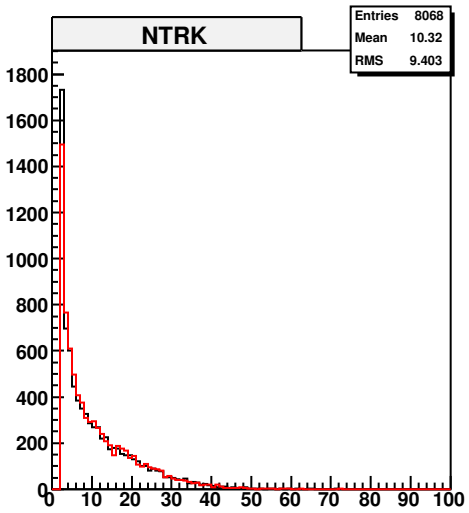


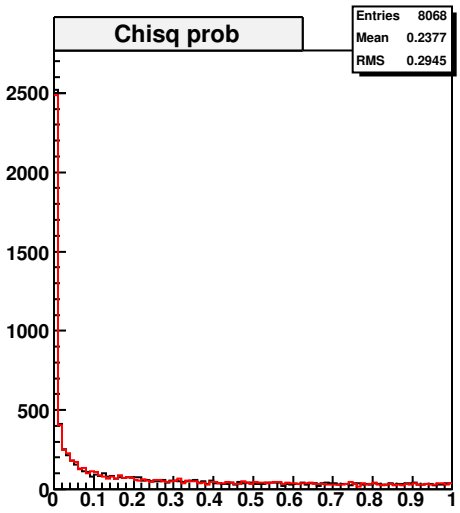



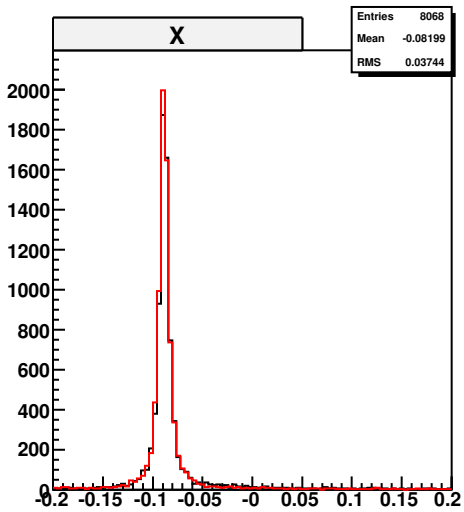



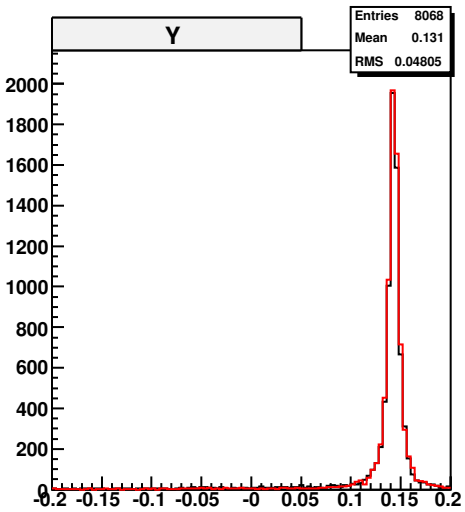

# Tracking (Efficiency-InJets)

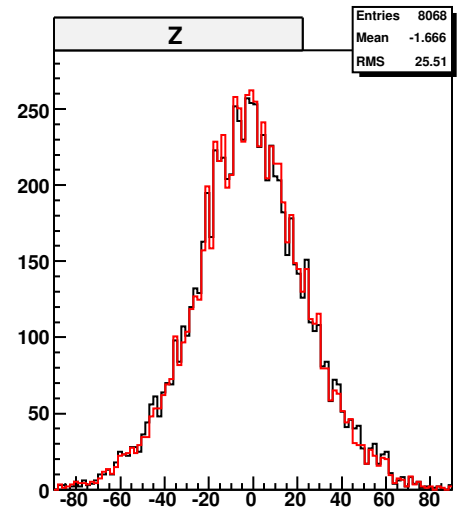


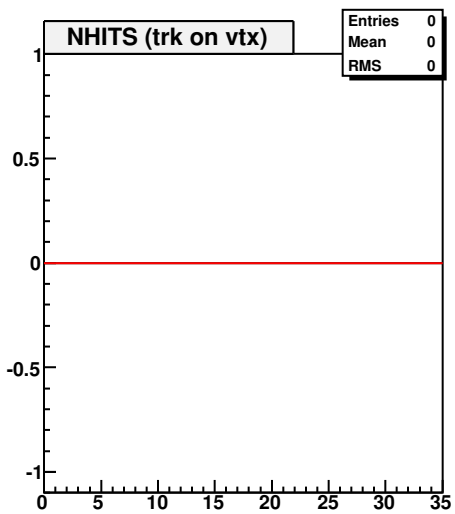



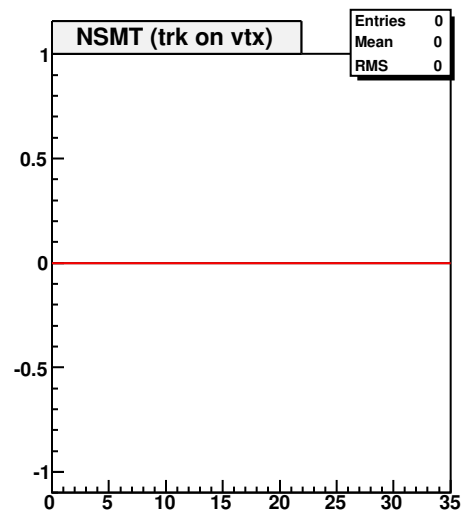



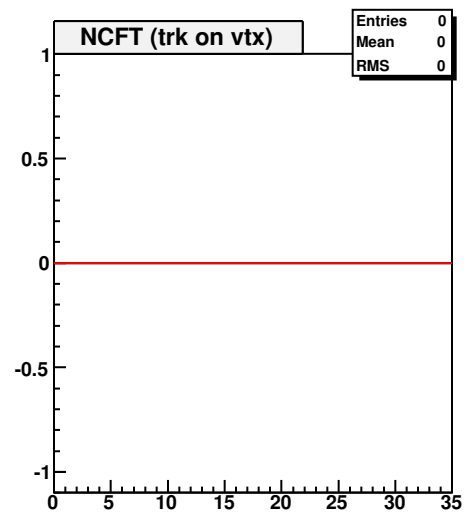



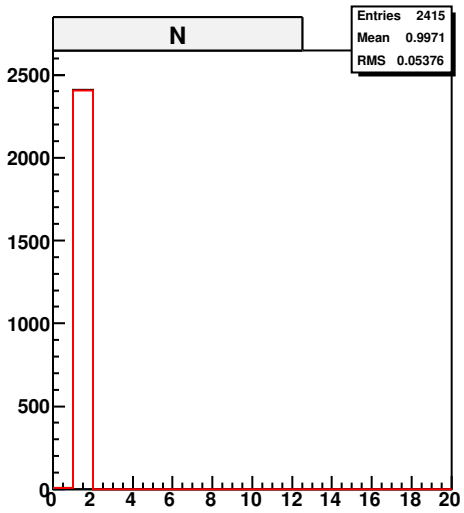



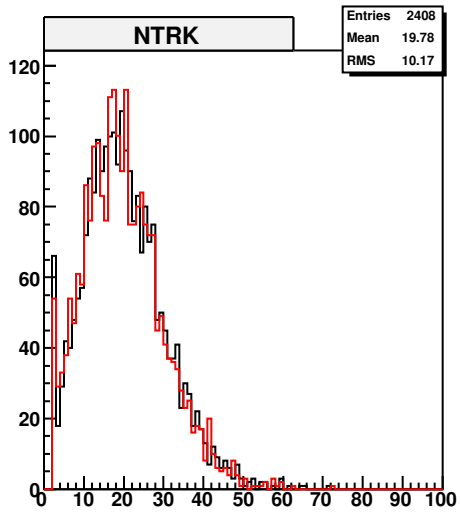



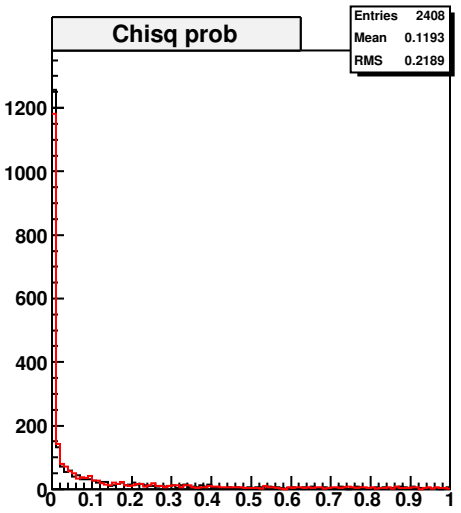



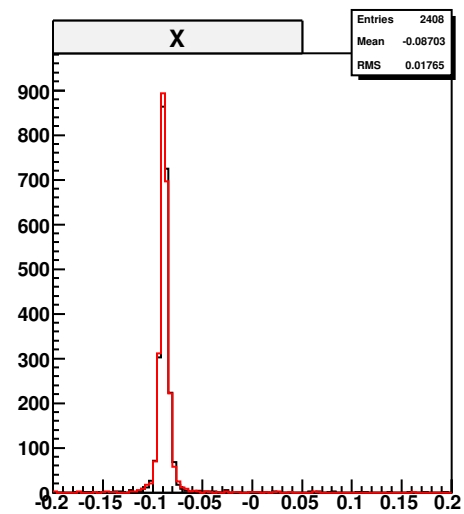



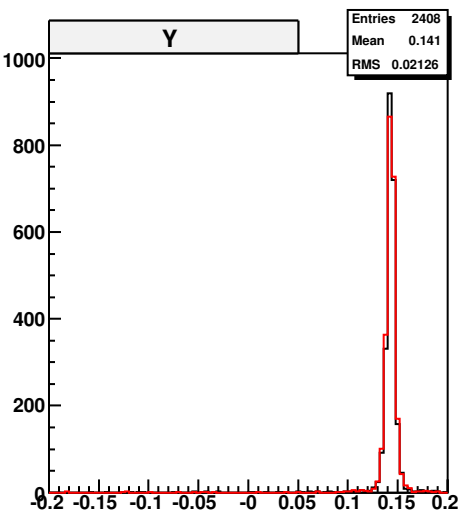

# Vertices (Primary - all candidates)

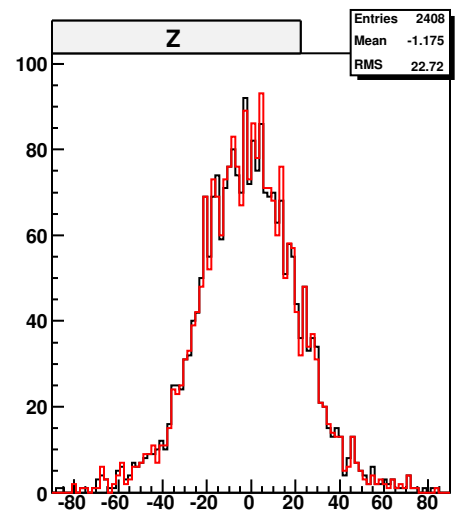


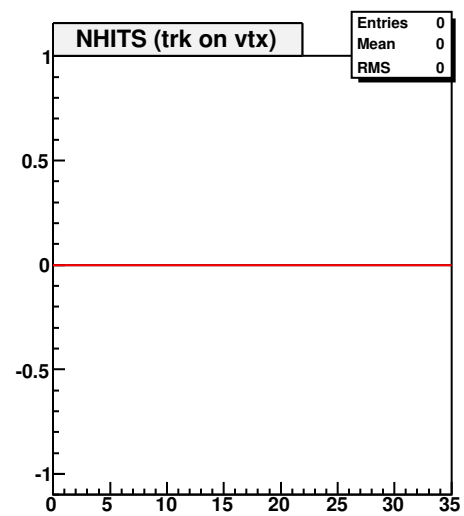



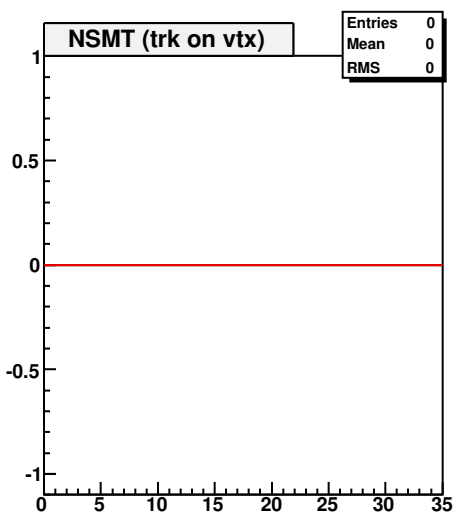



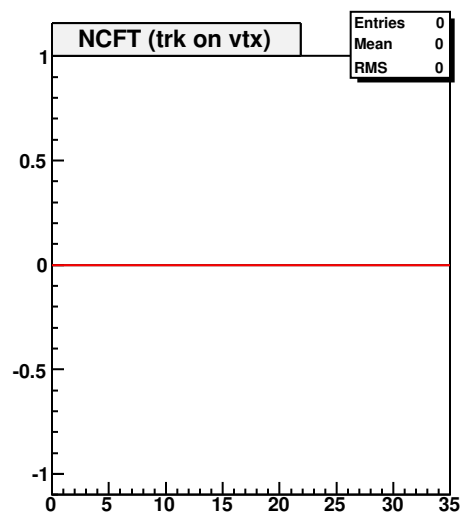



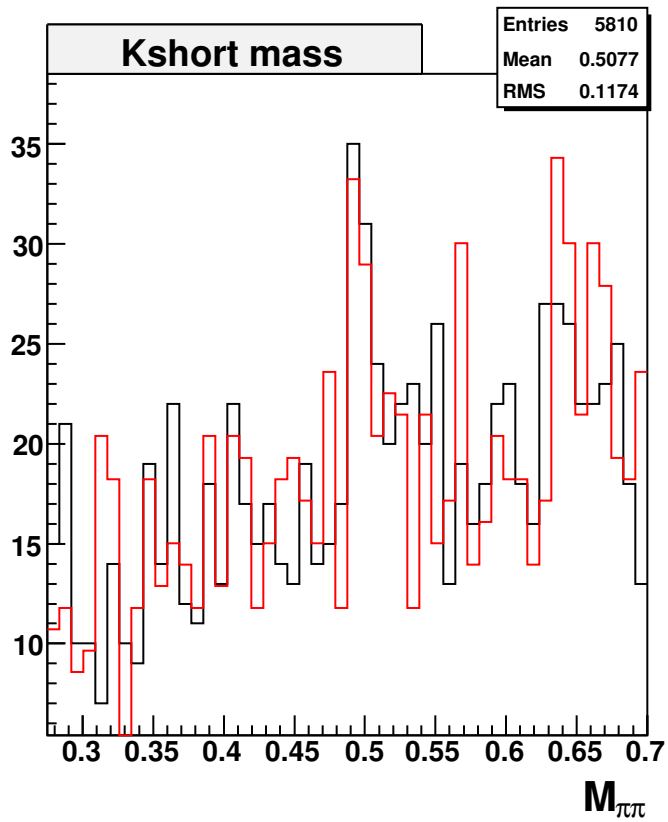



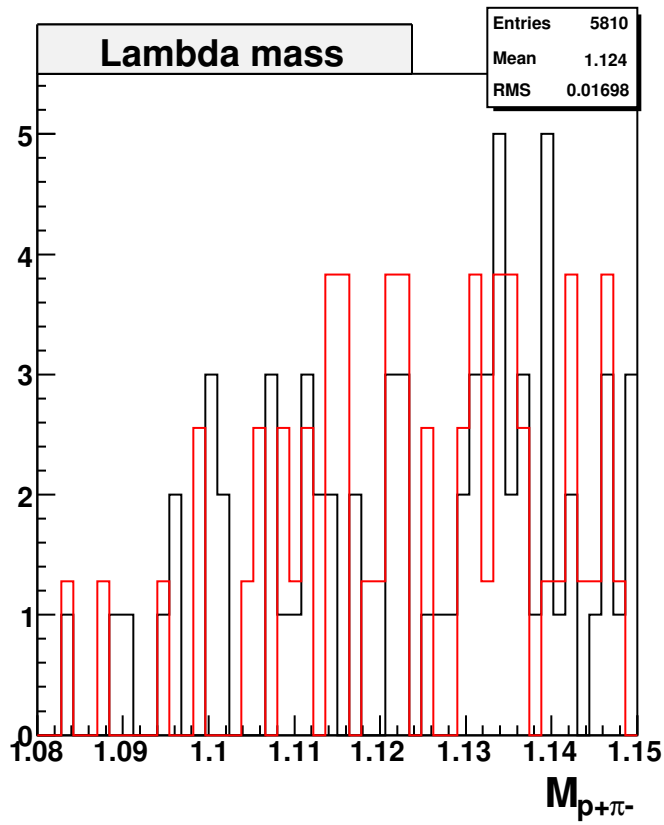



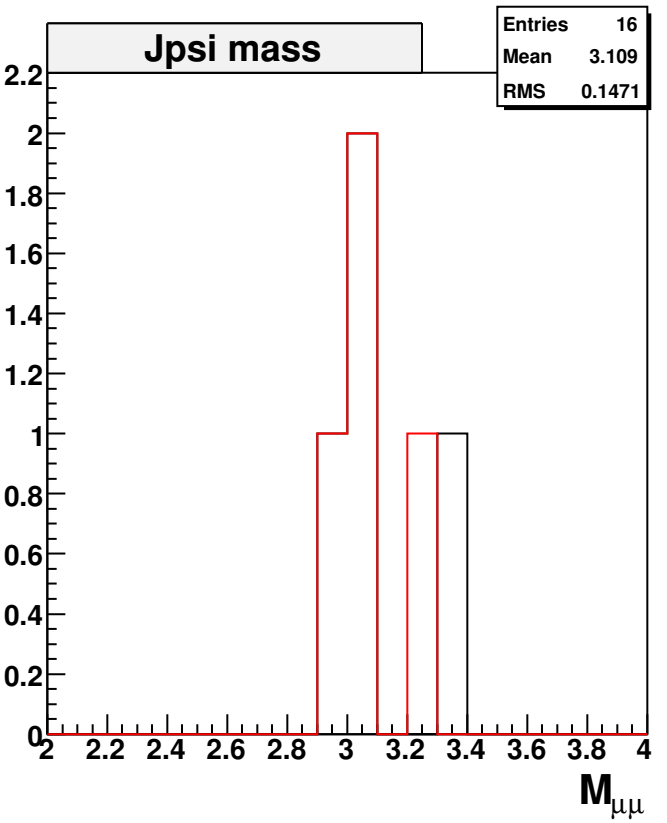



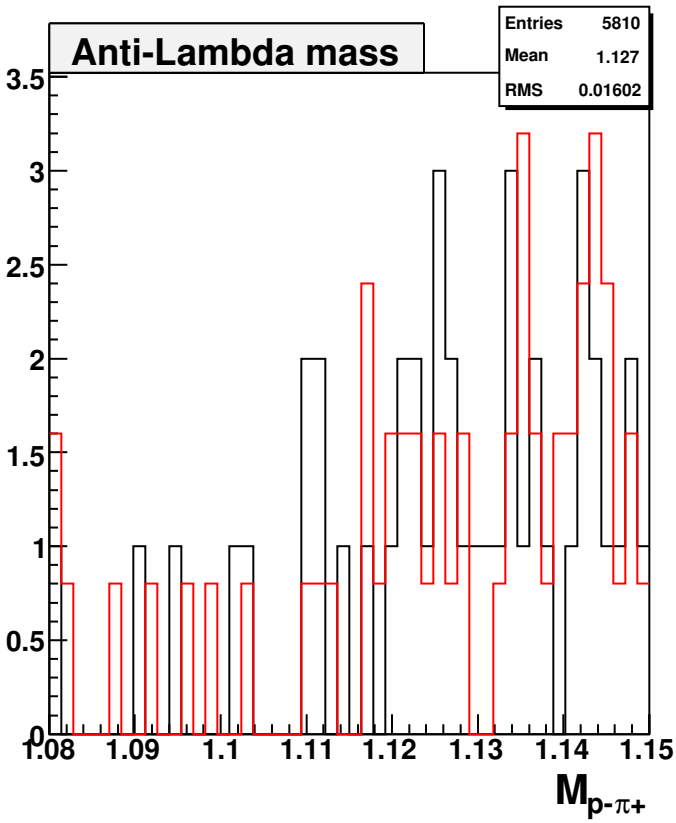




# Vertices (Primary - best)

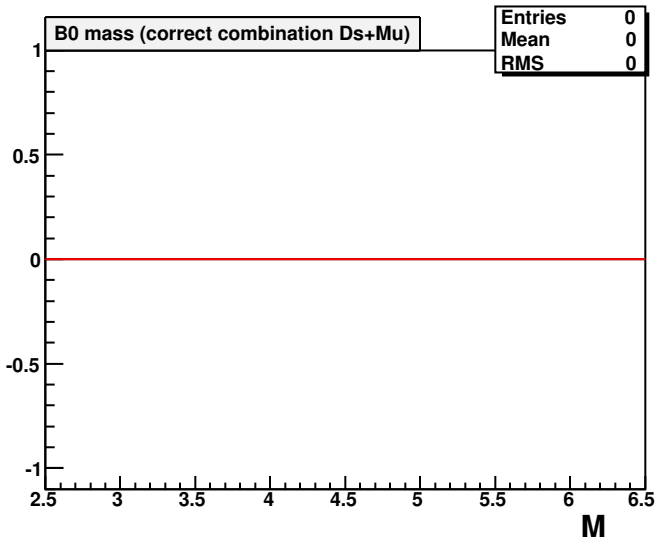

Kshort mass
Entries 5810
Mean 0.5077
RMS 0.1174
$M_{\pi\pi}$

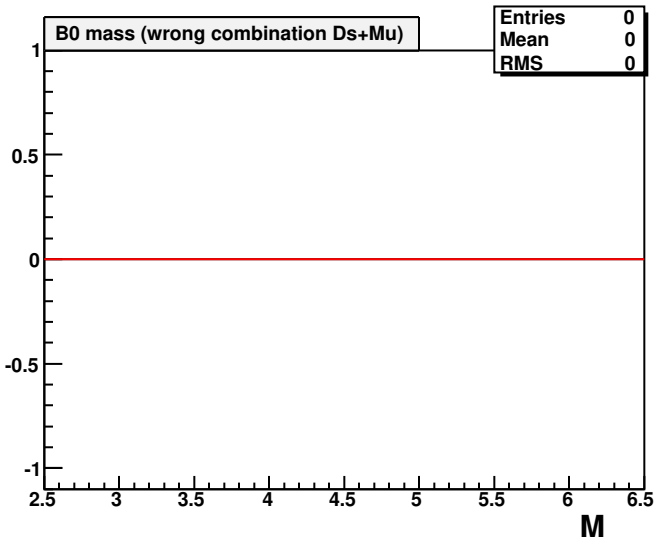

Lambda mass
Entries 5810
Mean 1.124
RMS 0.01698
$M_{p+\pi-}$

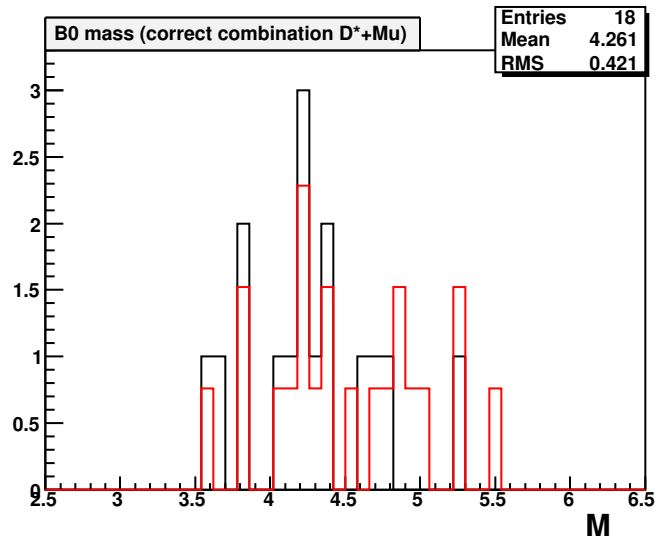

Jpsi mass
Entries 16
Mean 3.109
RMS 0.1471
$M_{\mu\mu}$

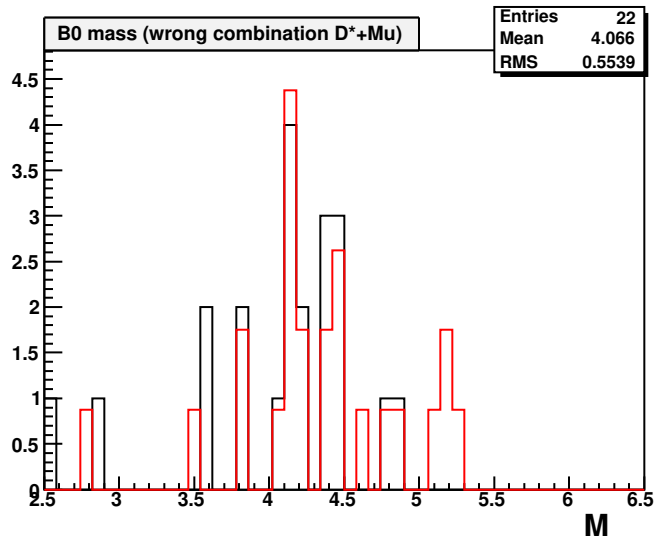

Anti-Lambda mass
Entries 5810
Mean 1.127
RMS 0.01602
$M_{p-\pi+}$

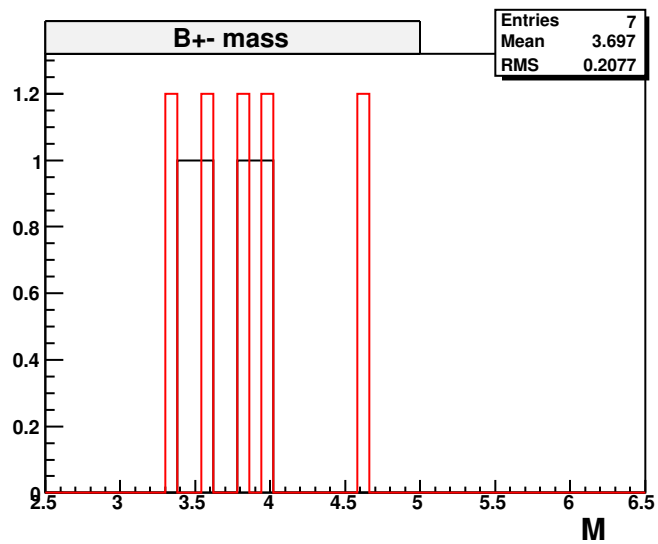
**V0 (All)**



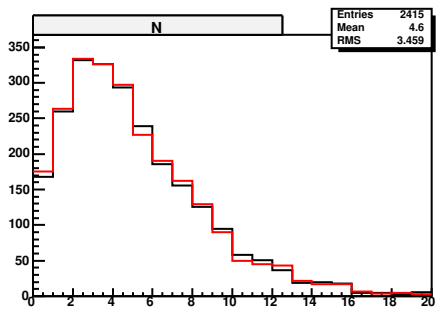



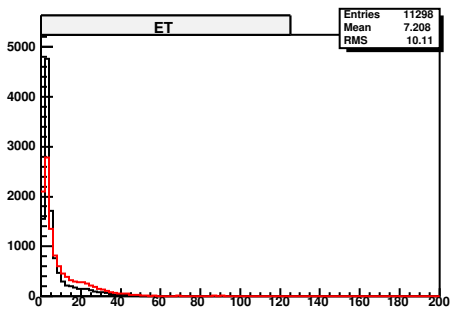



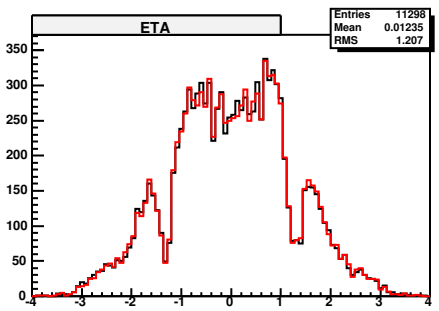



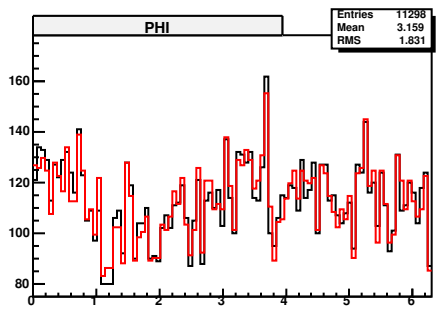



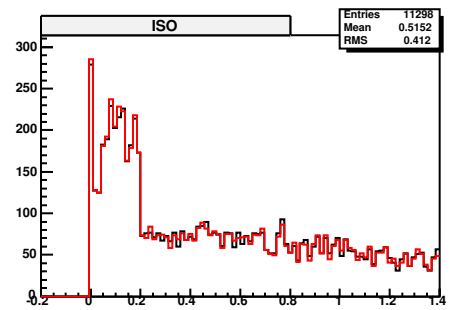

# V0(B mesons) (All)

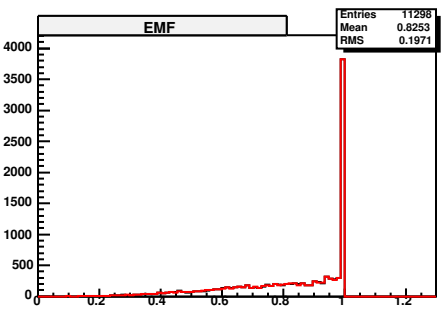


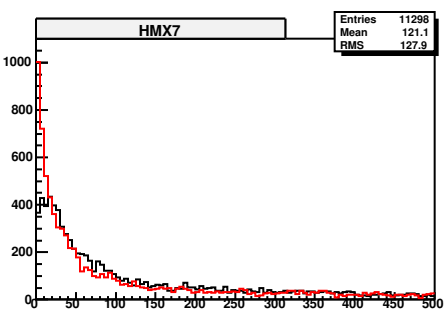



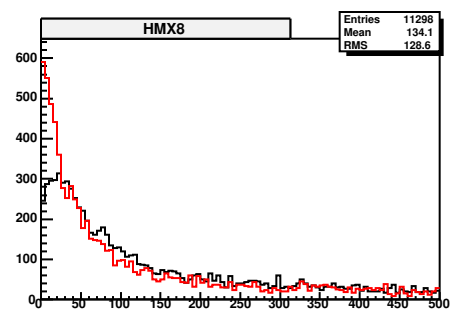



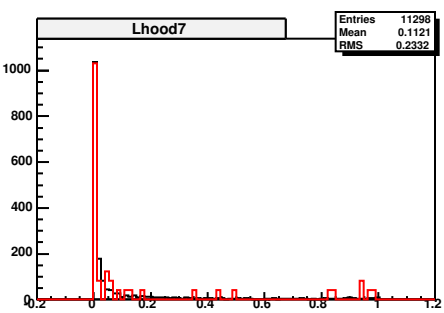



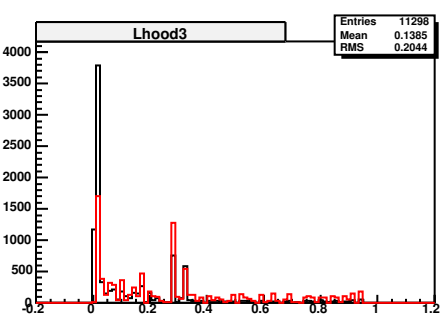



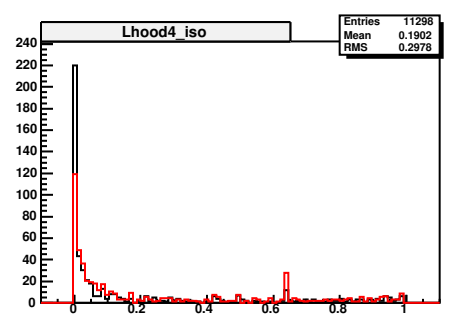



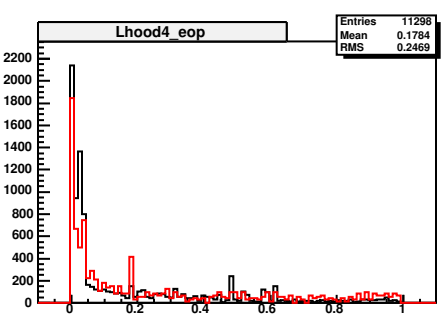



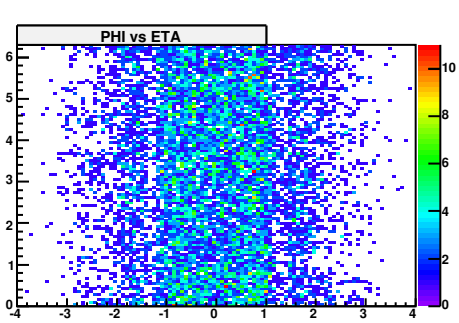



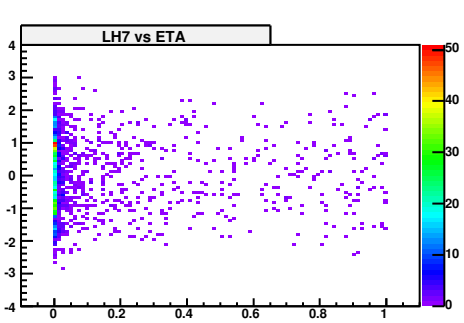



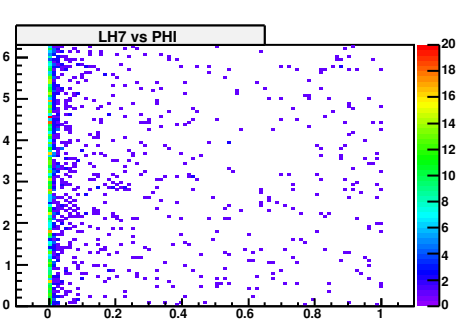



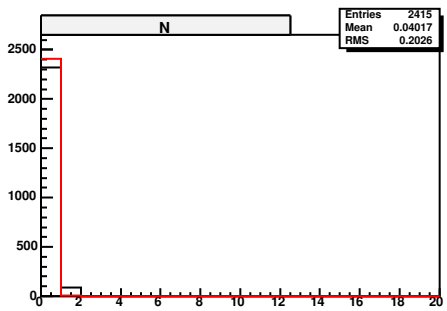



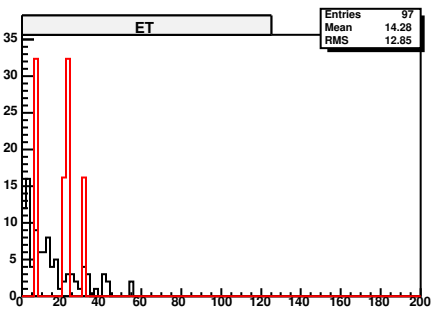



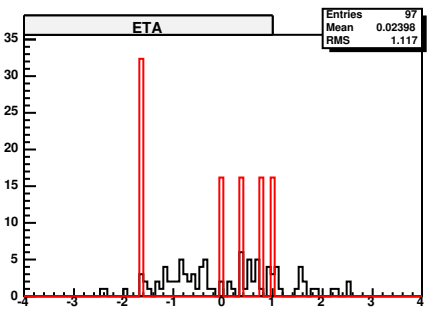



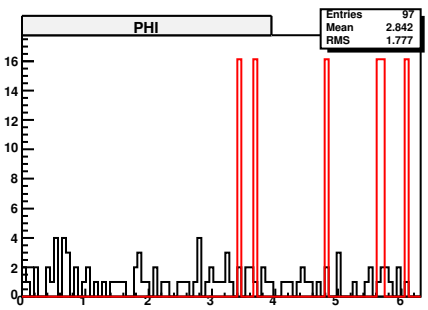



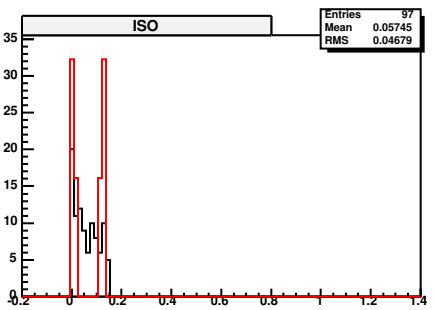

# Electrons (SCONE All)

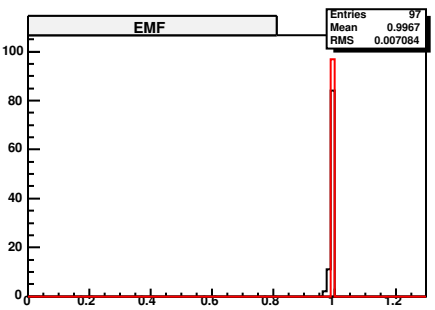


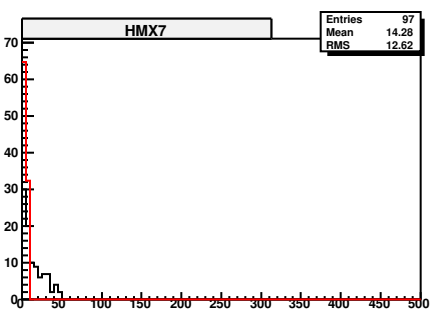



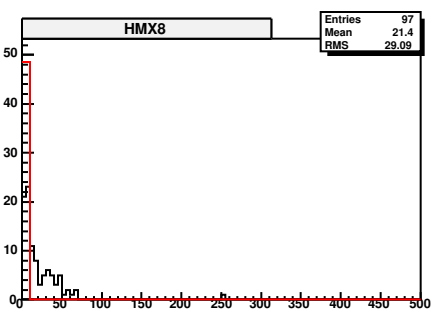



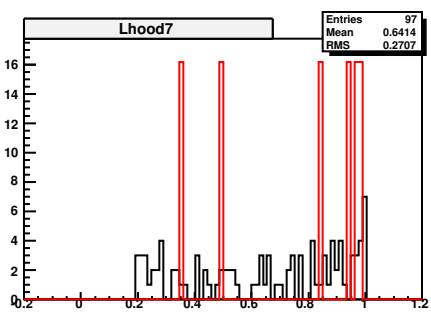



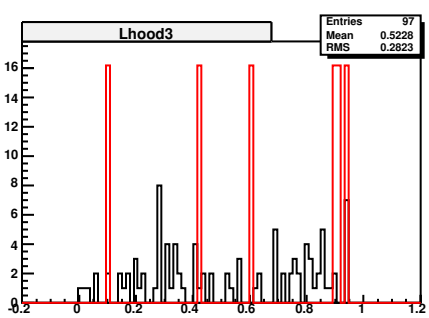



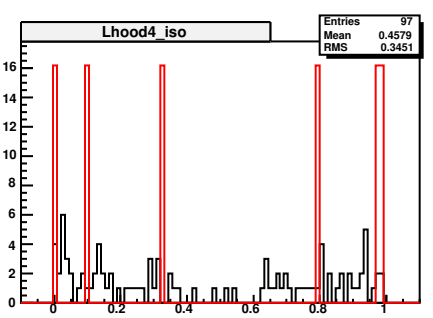



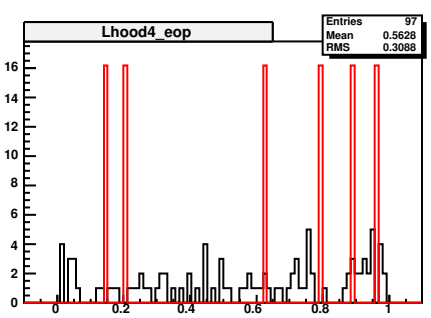



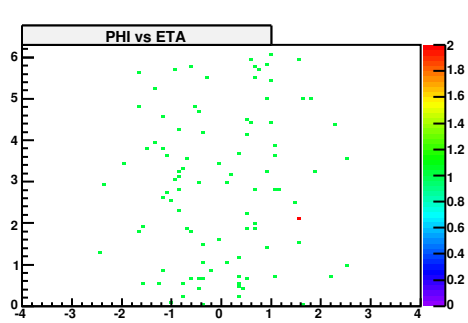



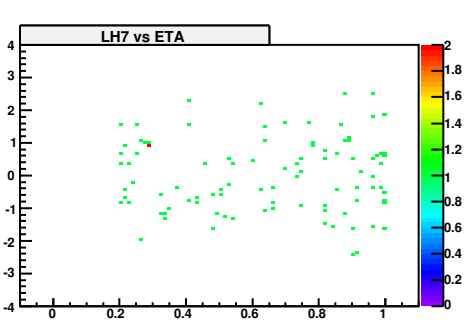



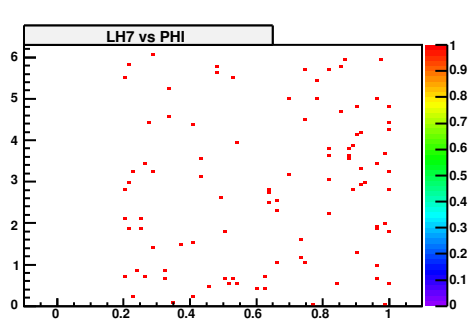



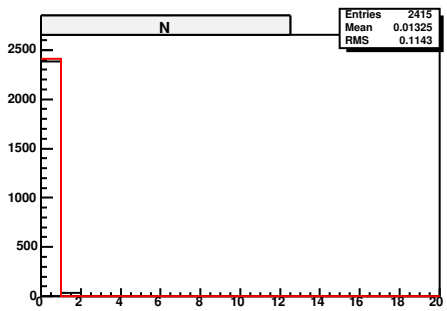



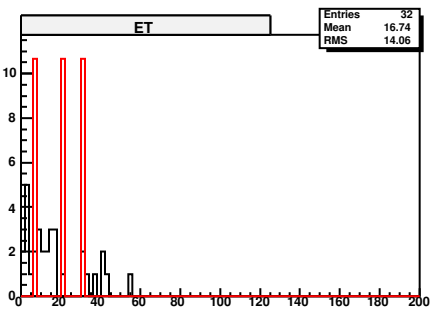



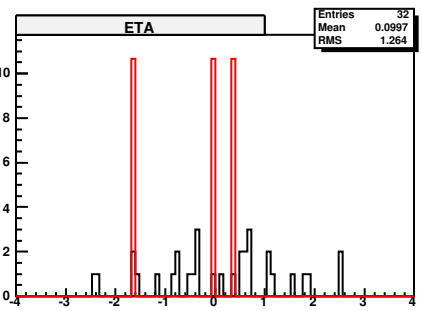



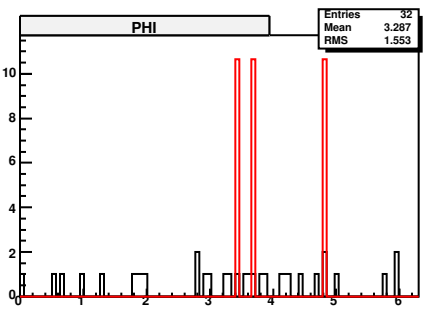



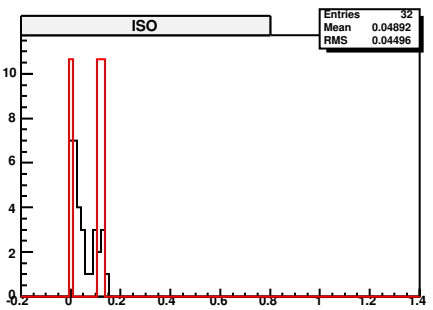

# Electrons (SCONE Loose)

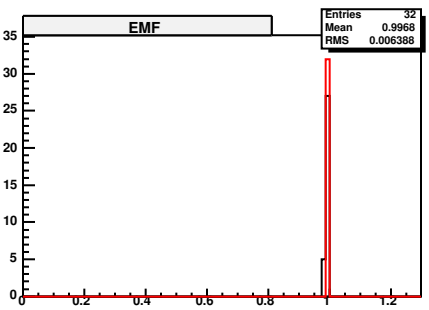


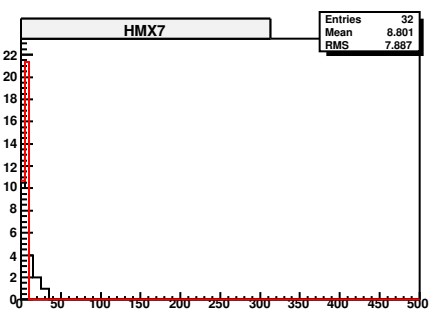



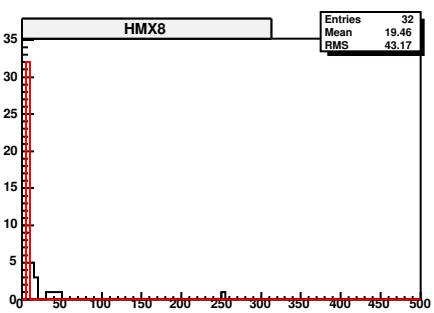



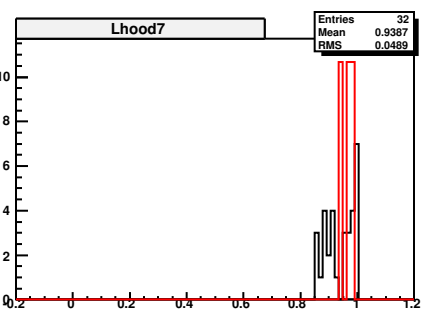



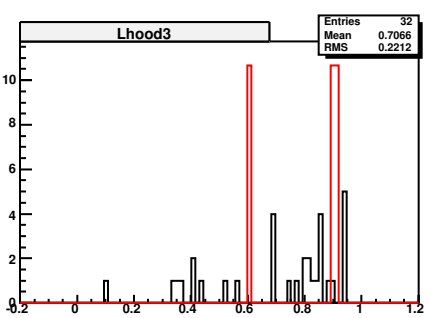



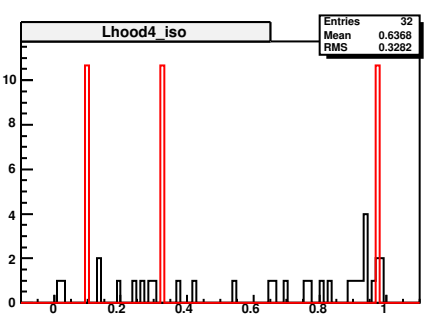



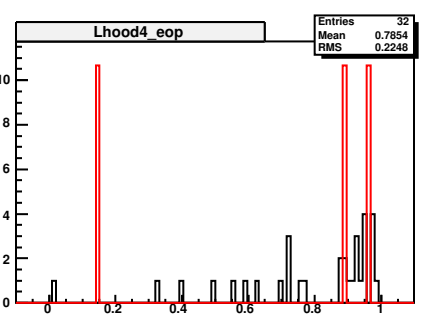



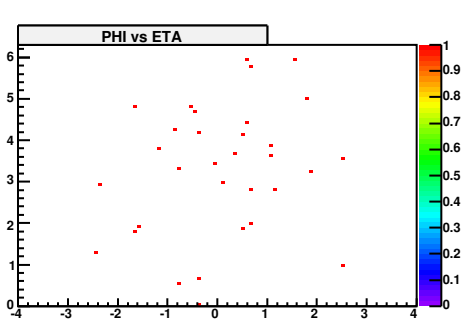



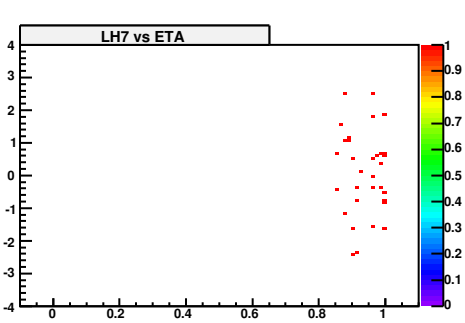



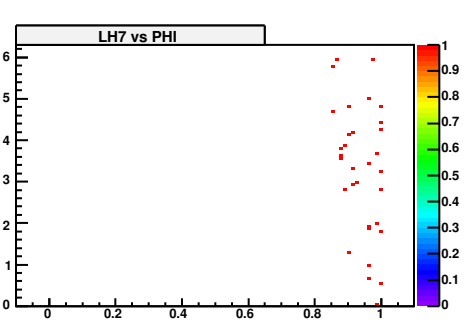



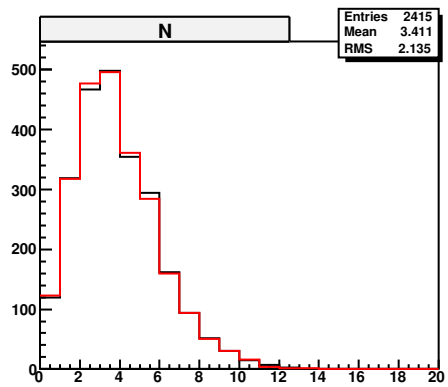



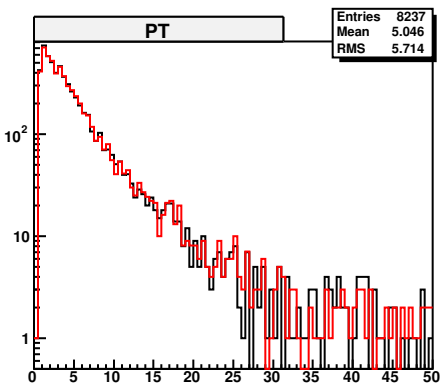



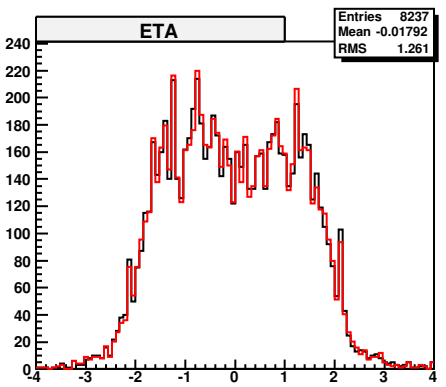



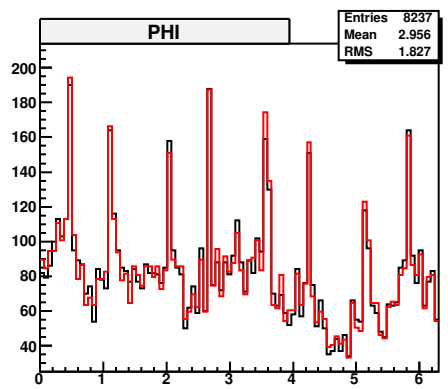



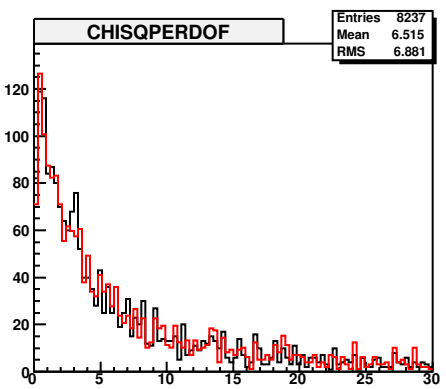

# Electrons (SCONE Tight)

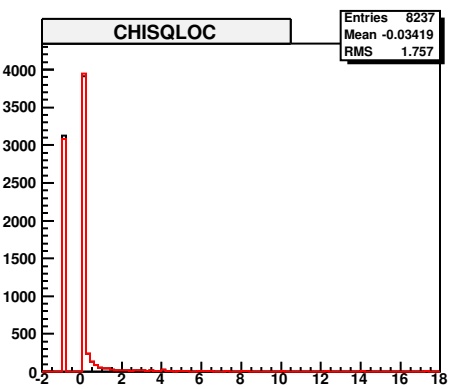

N
Entries 2415
Mean 3.411
RMS 2.135

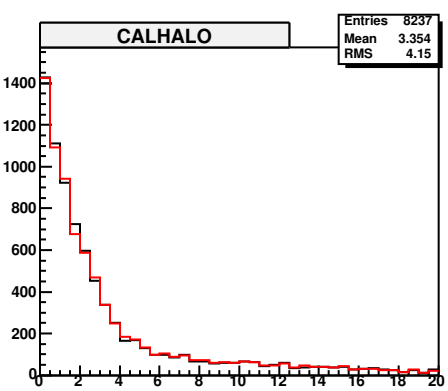

PT
Entries 8237
Mean 5.046
RMS 5.714

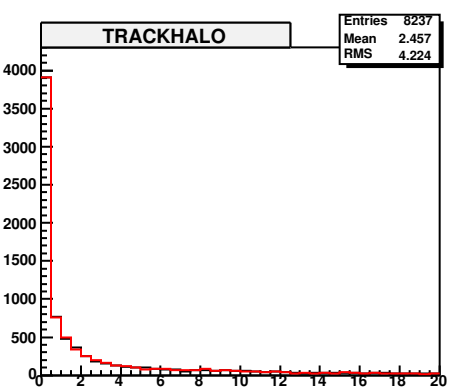

ETA
Entries 8237
Mean -0.01792
RMS 1.261

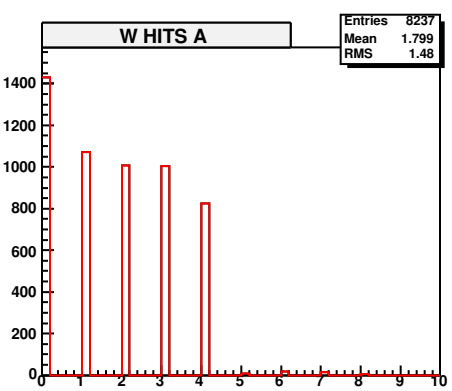

PHI
Entries 8237
Mean 2.956
RMS 1.827

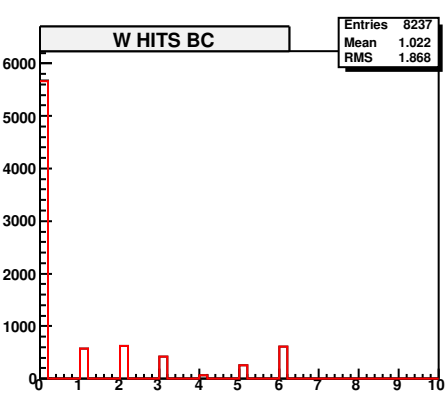

CHISQPERDOF
Entries 8237
Mean 6.515
RMS 6.881

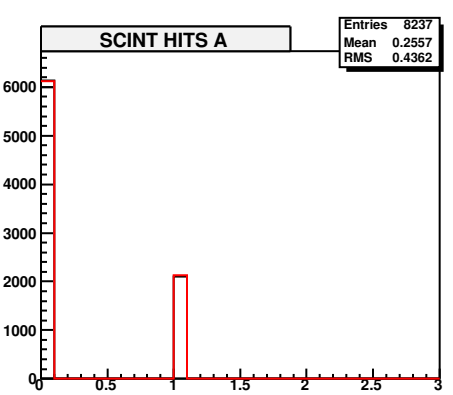

CHISQLOC
Entries 8237
Mean -0.03419
RMS 1.757

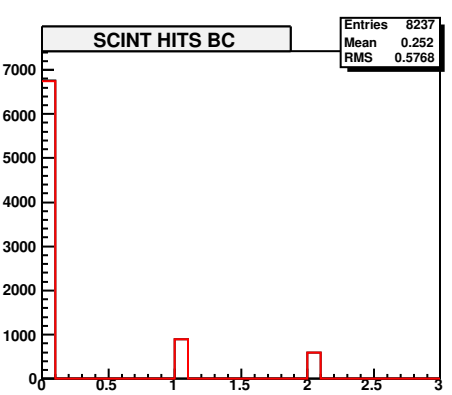

CALHALO
Entries 8237
Mean 3.354
RMS 4.15


TRACKHALO
Entries 8237
Mean 2.457
RMS 4.224

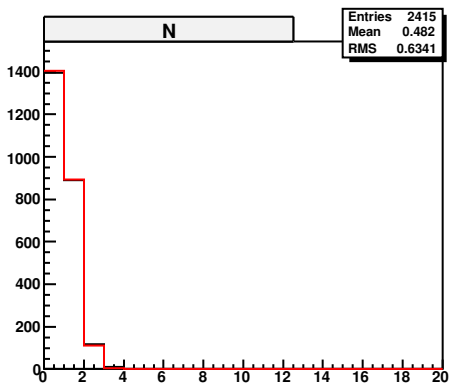

W HITS A
Entries 8237
Mean 1.799
RMS 1.48

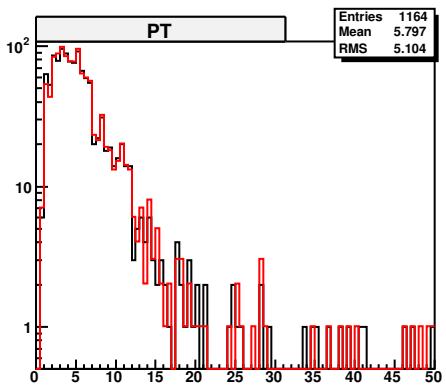

W HITS BC
Entries 8237
Mean 1.022
RMS 1.868

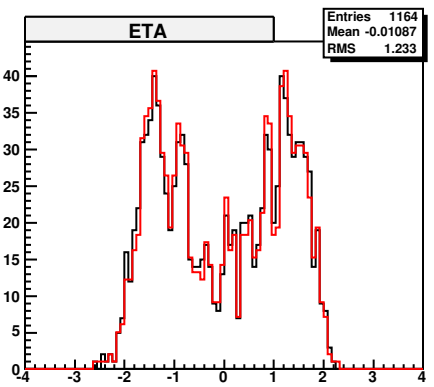

SCINT HITS A
Entries 8237
Mean 0.2557
RMS 0.4362

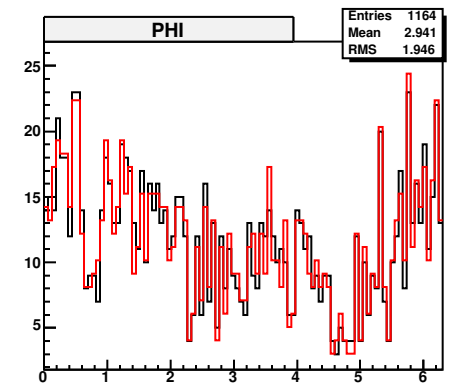

SCINT HITS BC
Entries 8237
Mean 0.252
RMS 0.5768

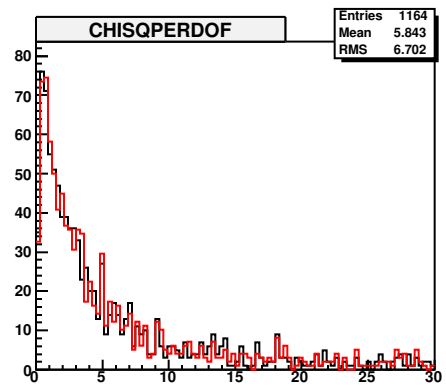
# Muons (All)

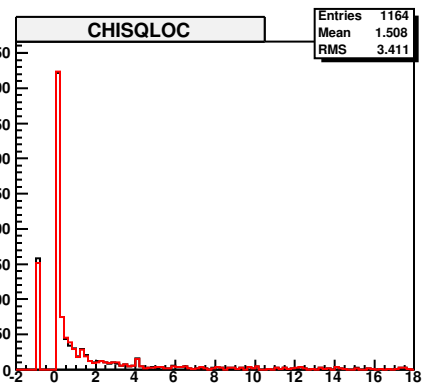


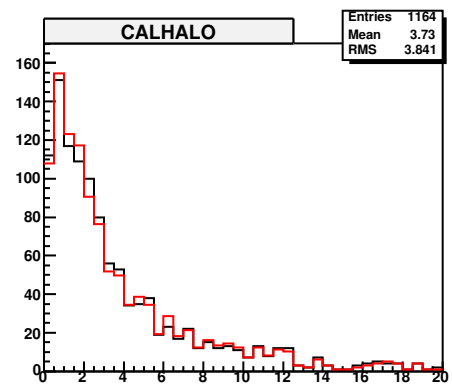



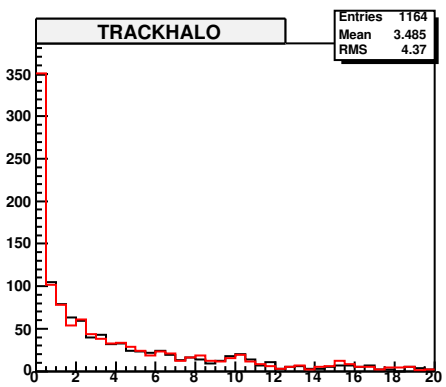



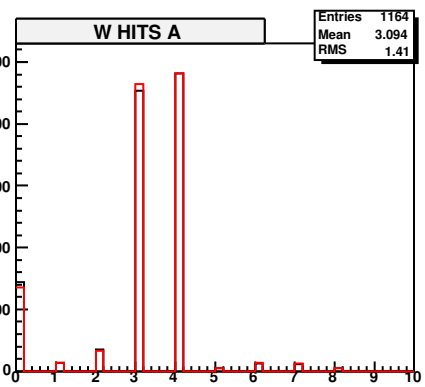



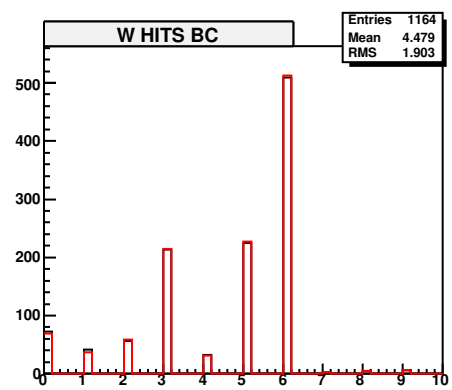



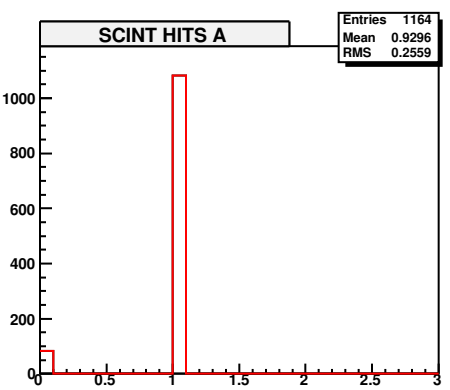



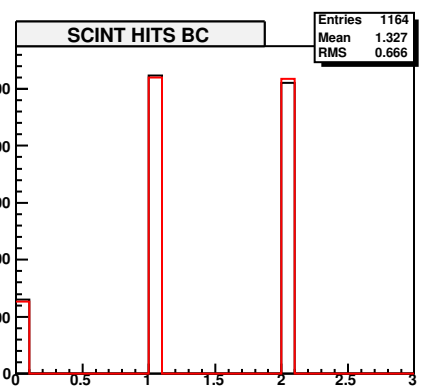



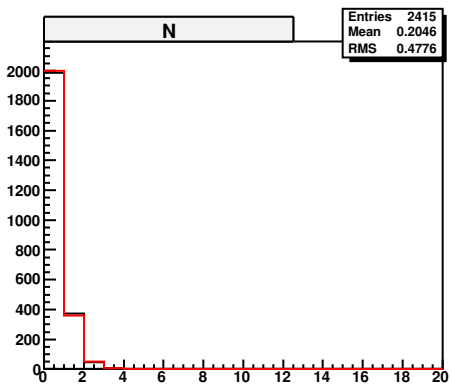



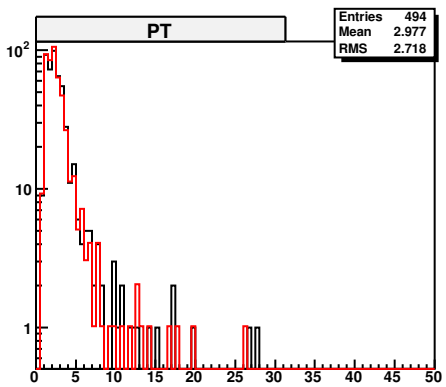



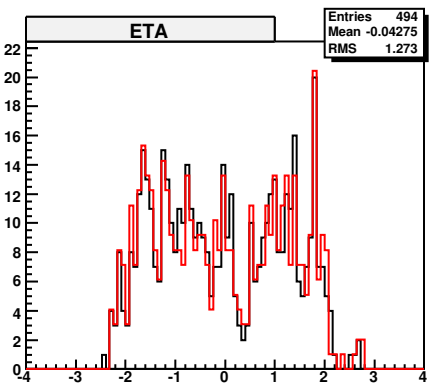



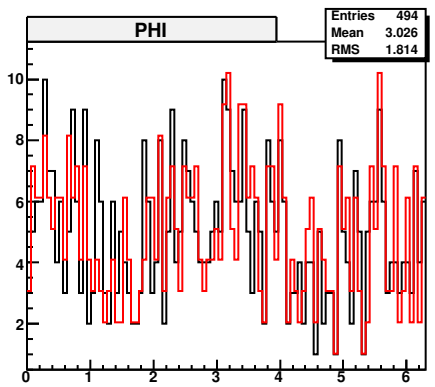



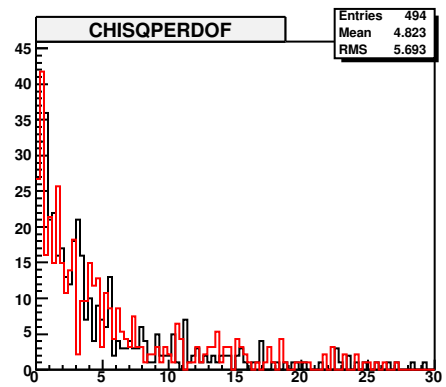

# Muons (Matched)

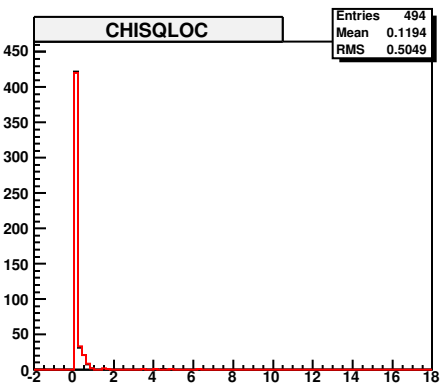

N
Entries 2415
Mean 0.2046
RMS 0.4776

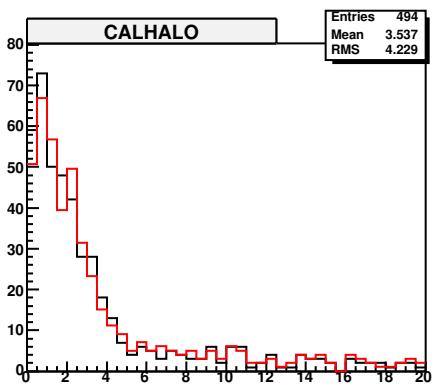

PT
Entries 494
Mean 2.977
RMS 2.718

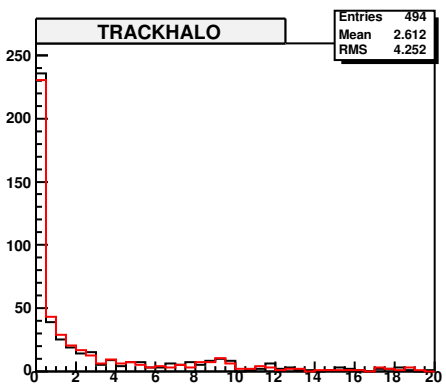

ETA
Entries 494
Mean -0.04275
RMS 1.273

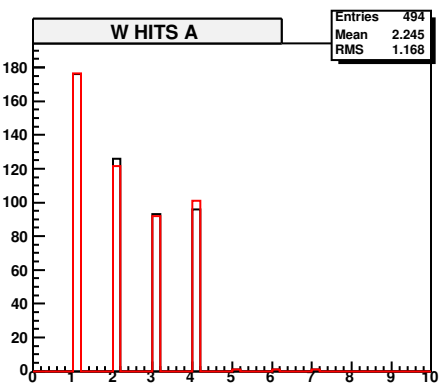

PHI
Entries 494
Mean 3.026
RMS 1.814

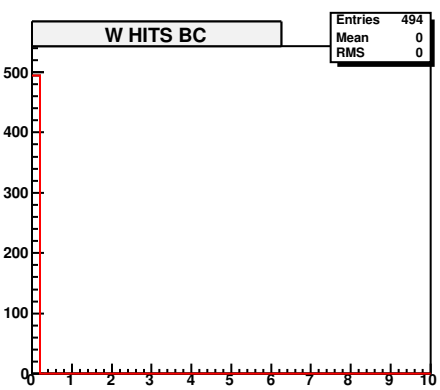

CHISQPERDOF
Entries 494
Mean 4.823
RMS 5.693

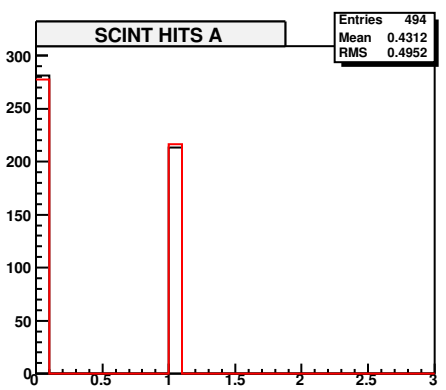

CHISQLOC
Entries 494
Mean 0.1194
RMS 0.5049

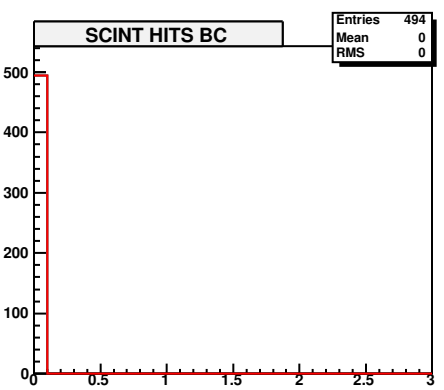

CALHALO
Entries 494
Mean 3.537
RMS 4.229


TRACKHALO
Entries 494
Mean 2.612
RMS 4.252

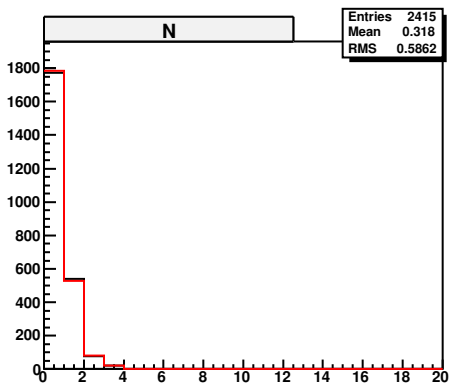

W HITS A
Entries 494
Mean 2.245
RMS 1.168

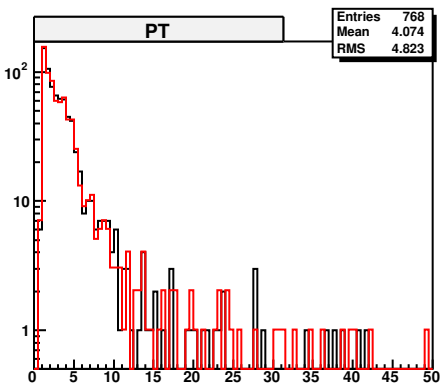

W HITS BC
Entries 494
Mean 0
RMS 0

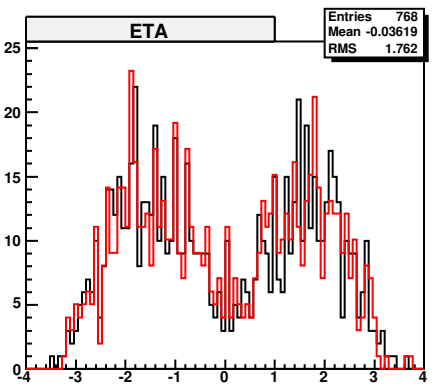

SCINT HITS A
Entries 494
Mean 0.4312
RMS 0.4952

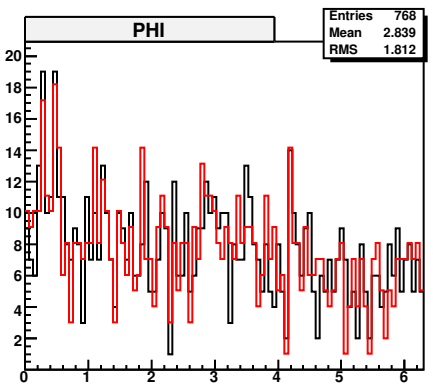

SCINT HITS BC
Entries 494
Mean 0
RMS 0

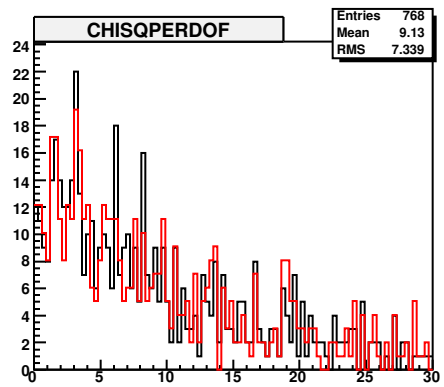
# Muons (Astub)

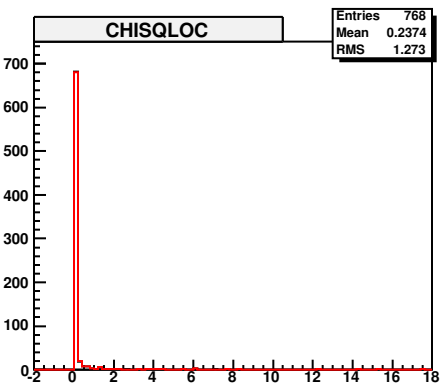


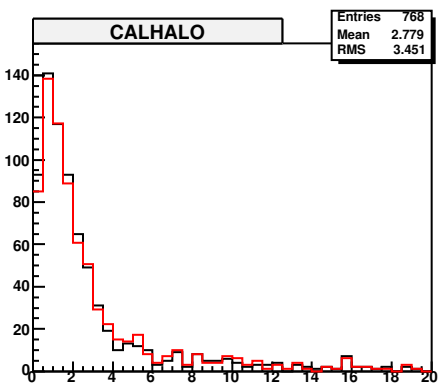



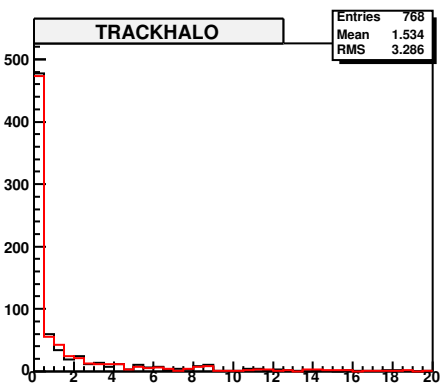



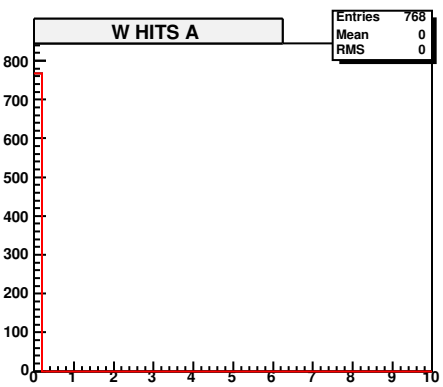



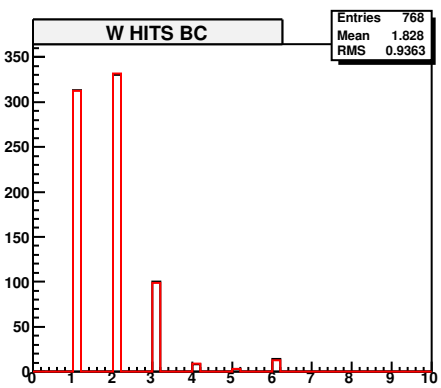



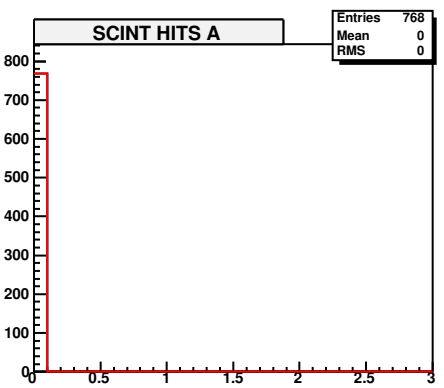



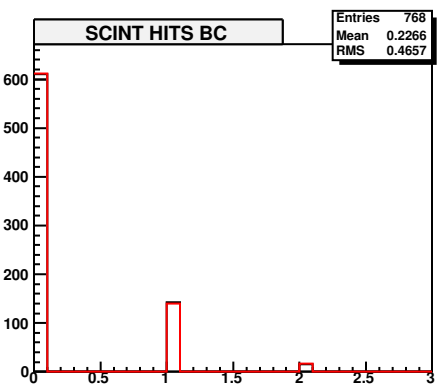



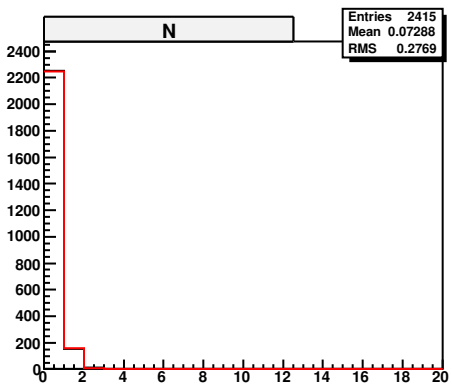



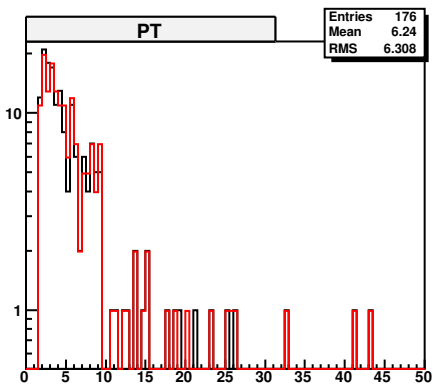



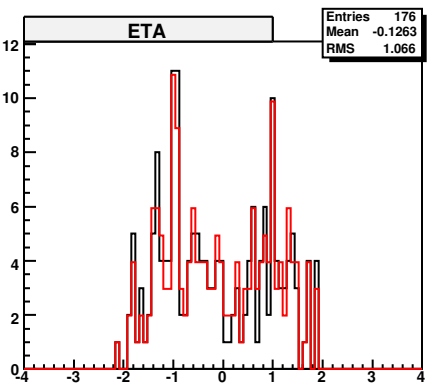



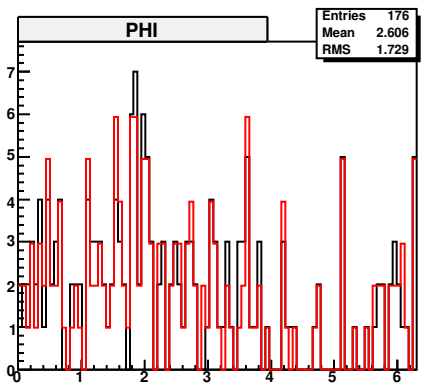



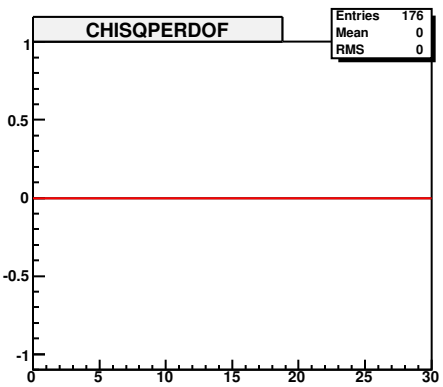

# Muons (BCstub)

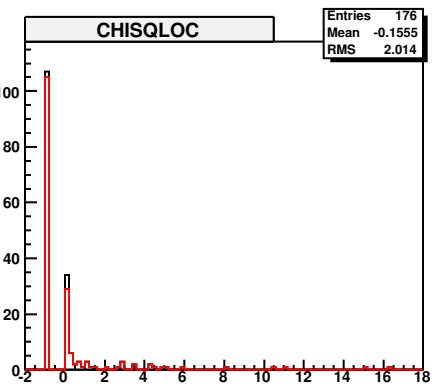


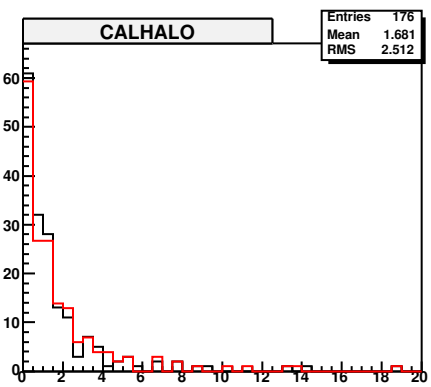



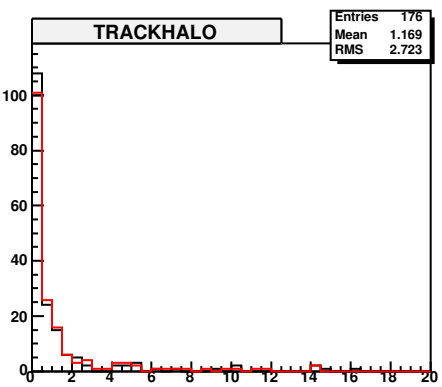



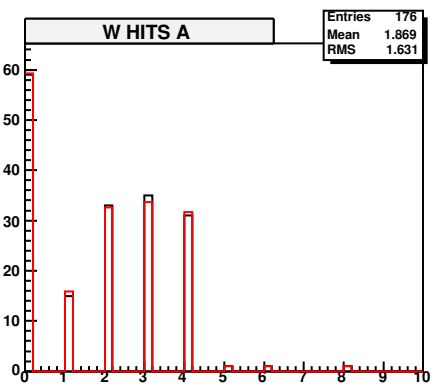



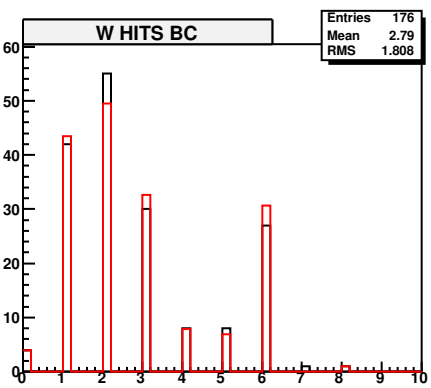



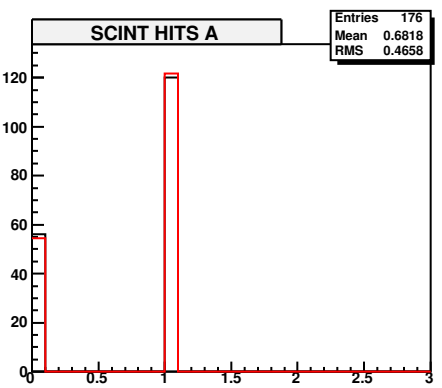



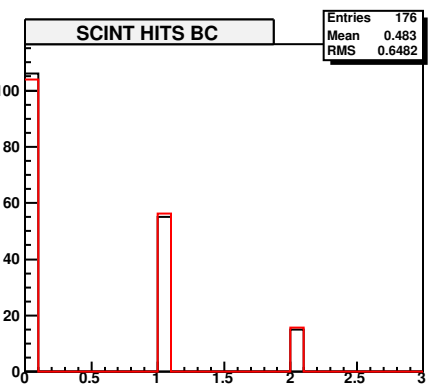



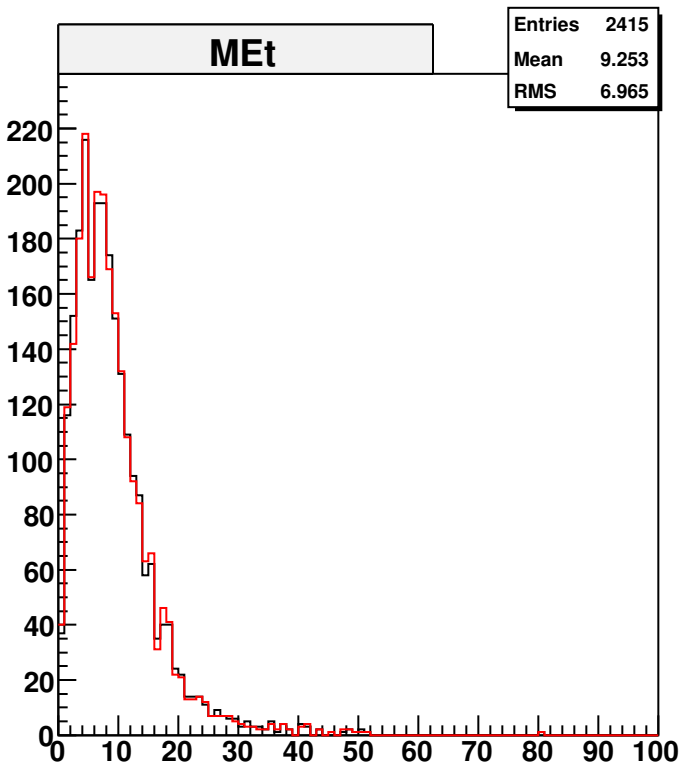



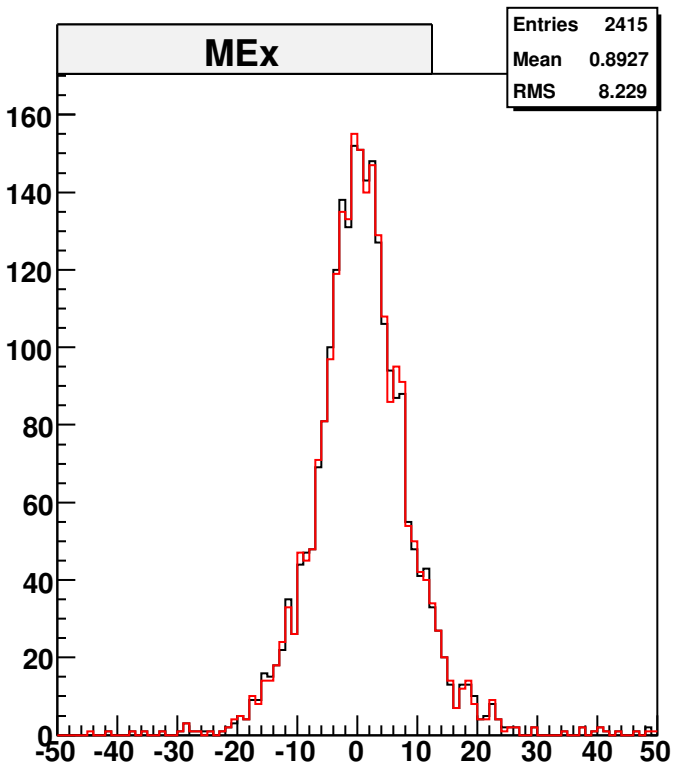



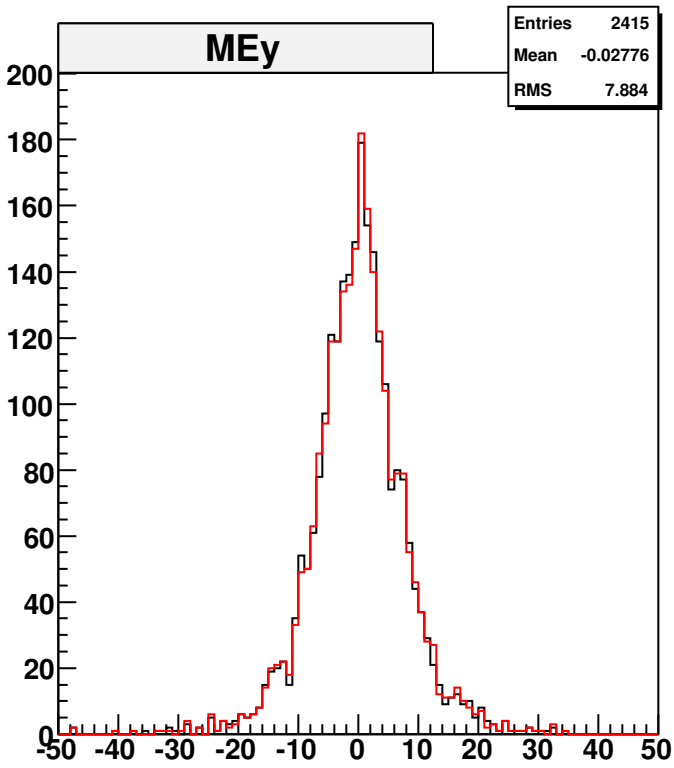



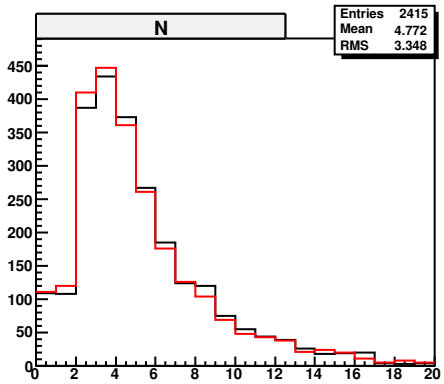

# Muons (Unmatched)

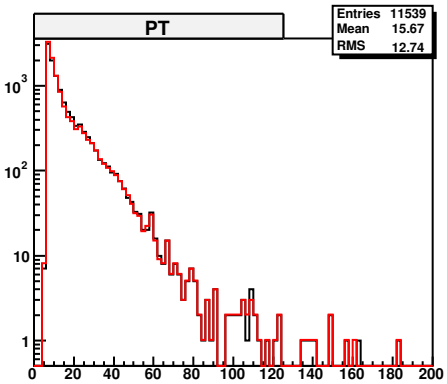

MEt
Entries 2415
Mean 9.253
RMS 6.965
0 10 20 30 40 50 60 70 80 90 100
0 20 40 60 80 100 120 140 160 180 200 220

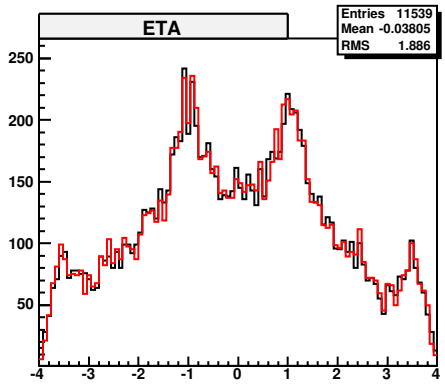

MEx
Entries 2415
Mean 0.8927
RMS 8.229
-50 -40 -30 -20 -10 0 10 20 30 40 50
0 20 40 60 80 100 120 140 160

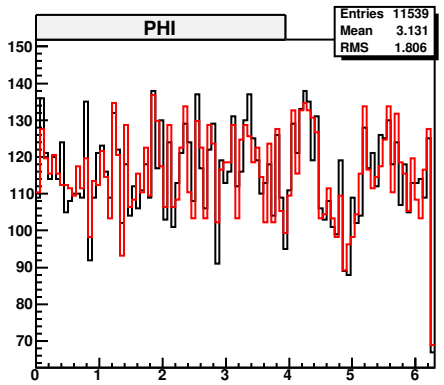

MEy
Entries 2415
Mean -0.02776
RMS 7.884
-50 -40 -30 -20 -10 0 10 20 30 40 50
0 20 40 60 80 100 120 140 160 180 200

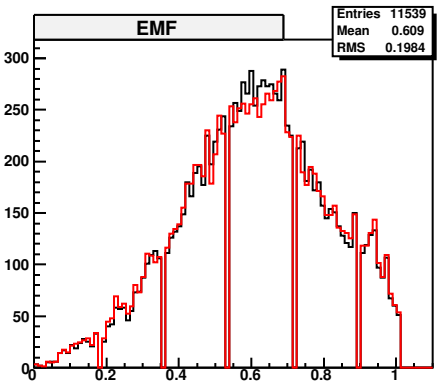
**Met (No cuts)**

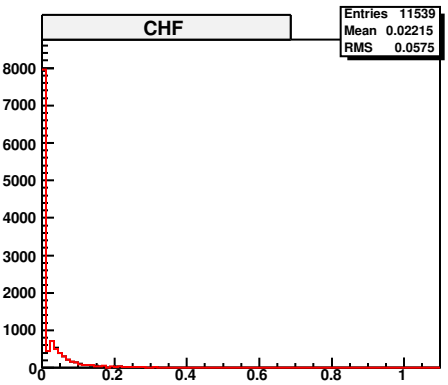


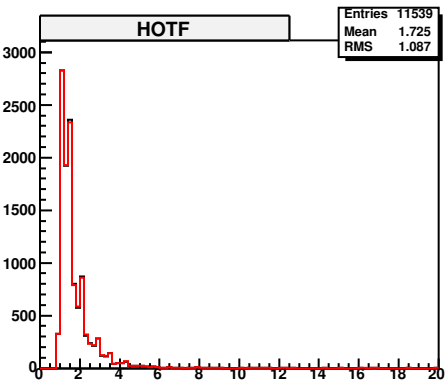



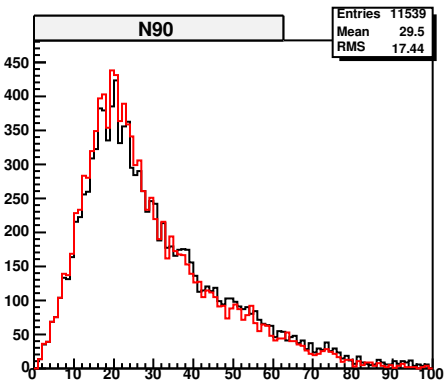



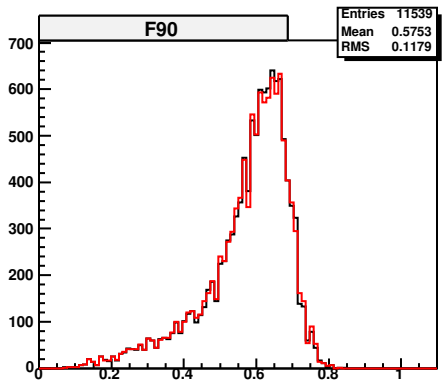



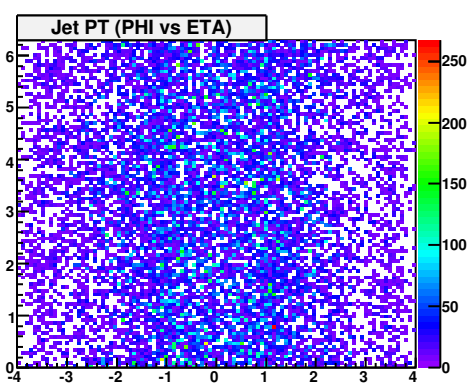



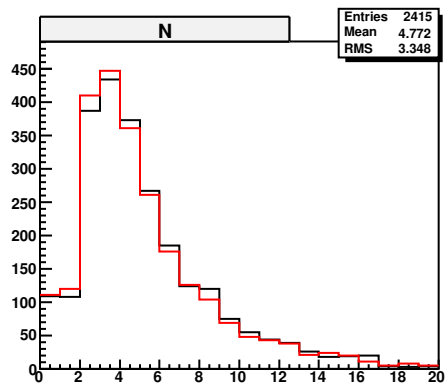



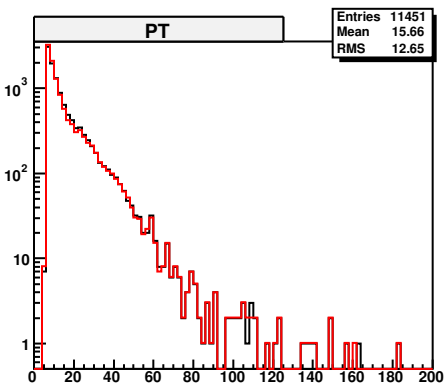



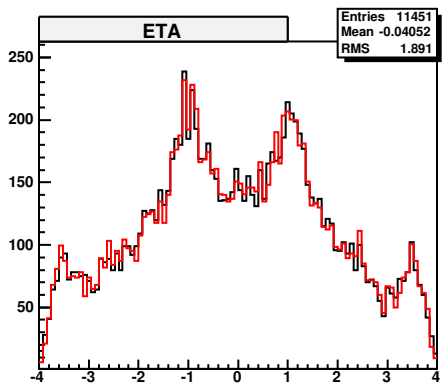



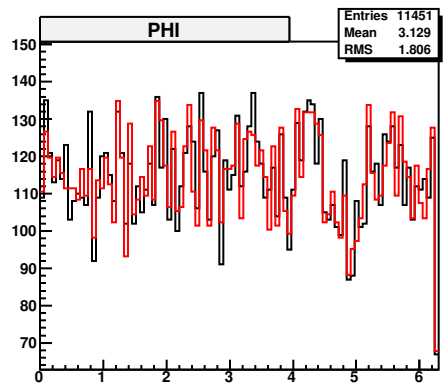



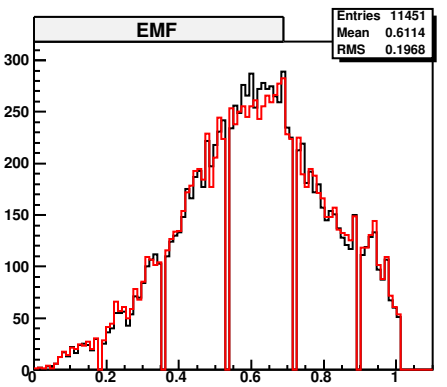

# Jets (Cone R 0.7 (no cuts))

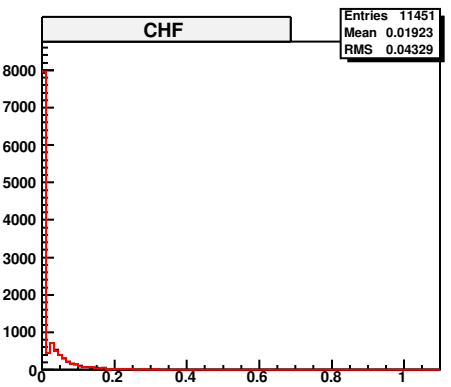


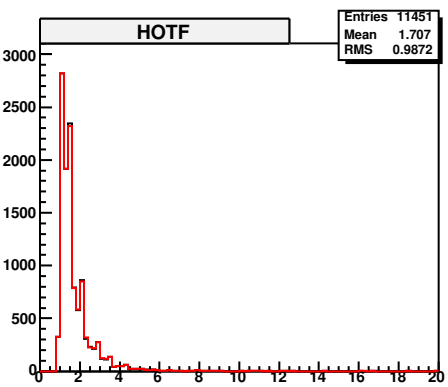



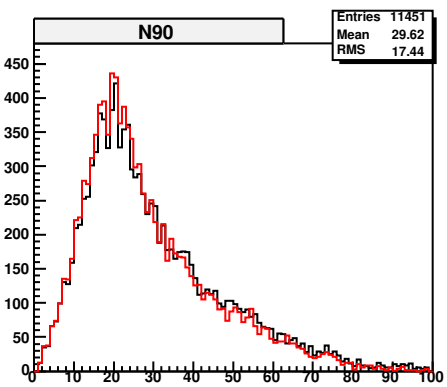



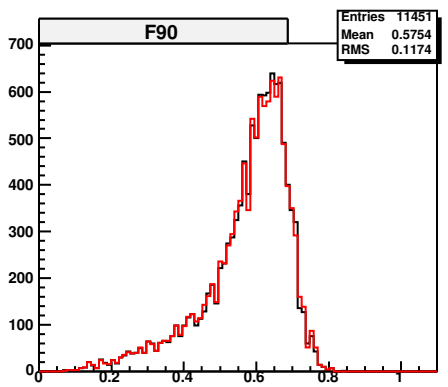



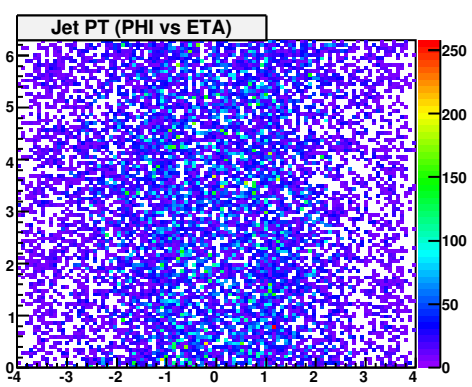



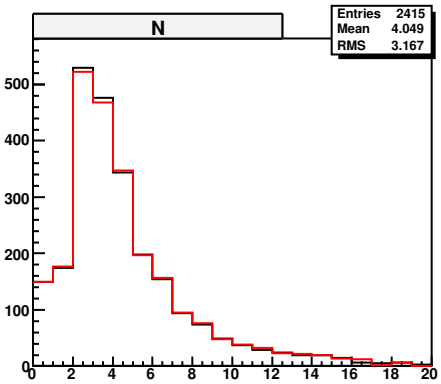



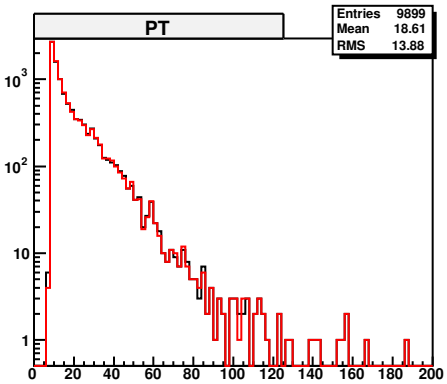



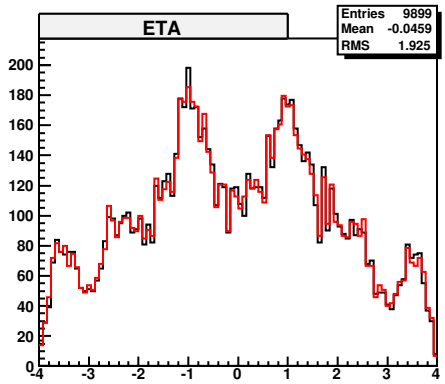



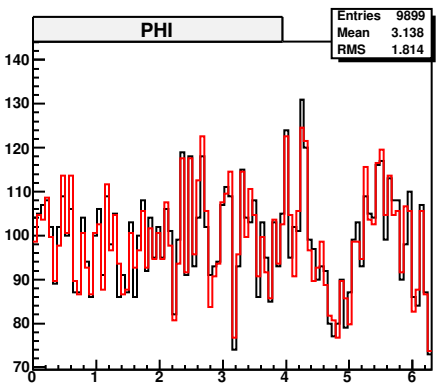



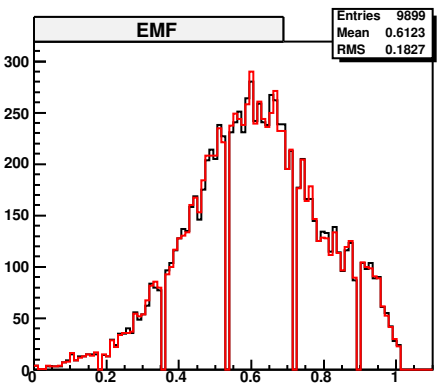

# Jets (Cone R 0.7 (standard cuts))

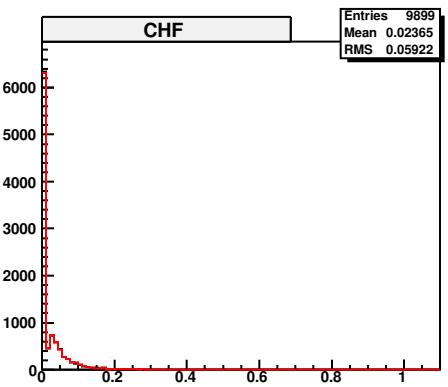


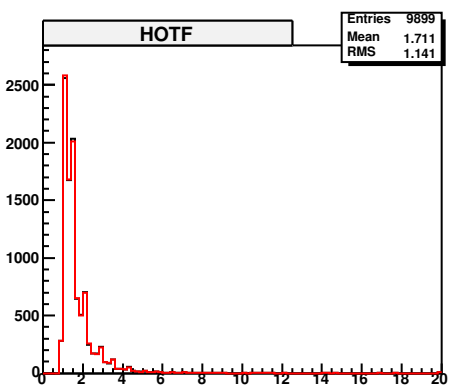



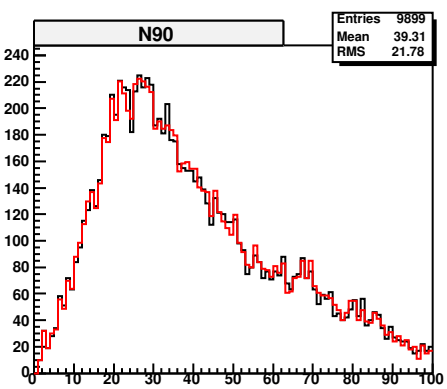



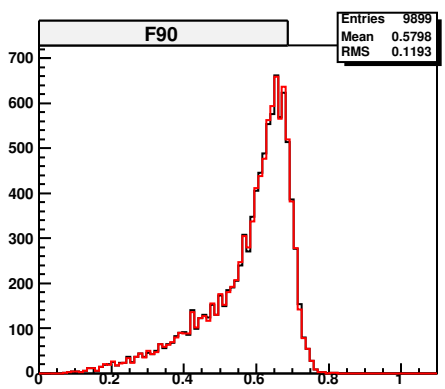



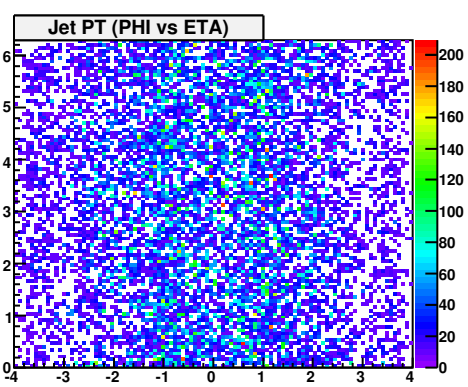



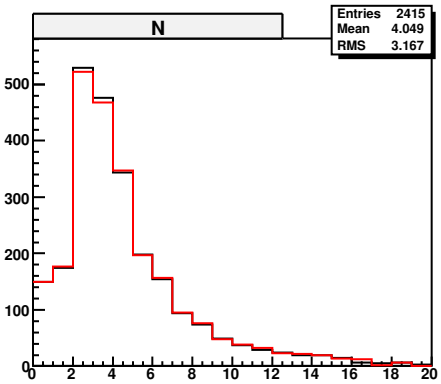



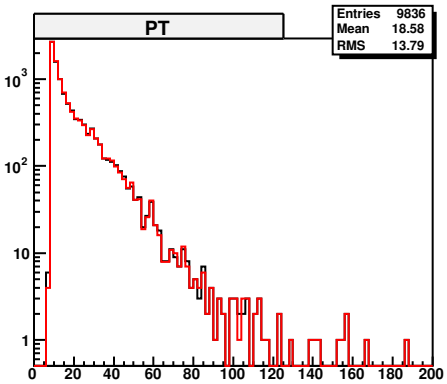



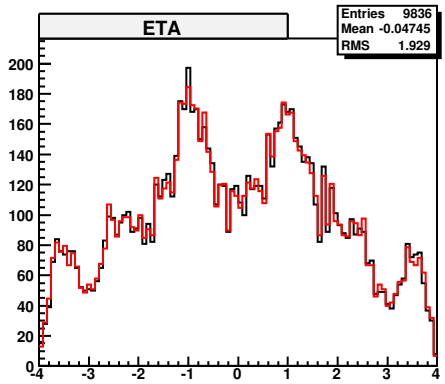



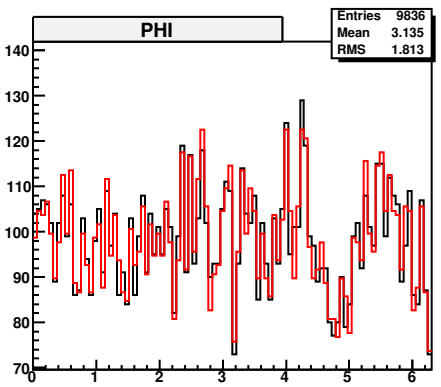



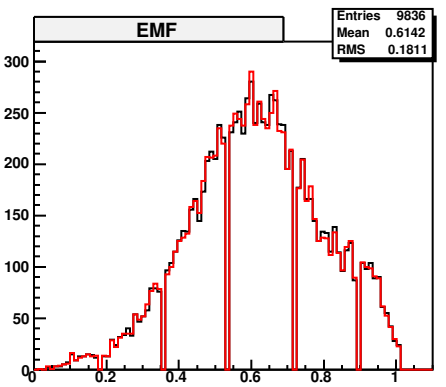

# Jets (KT D 1 (no cuts))

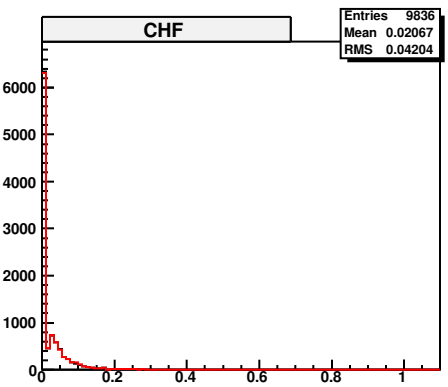


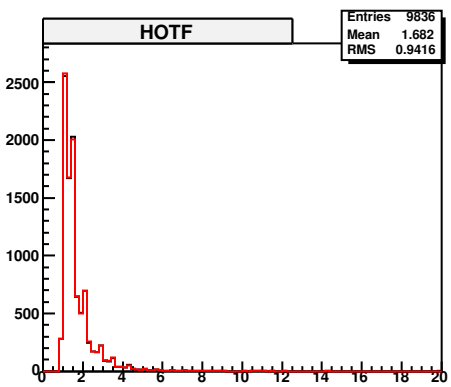



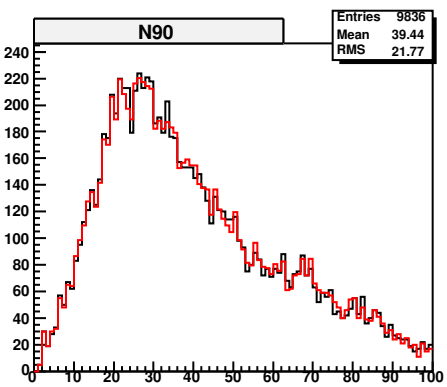



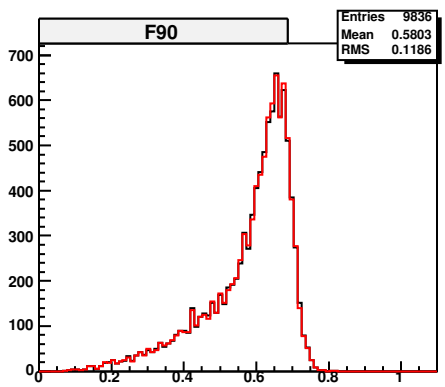



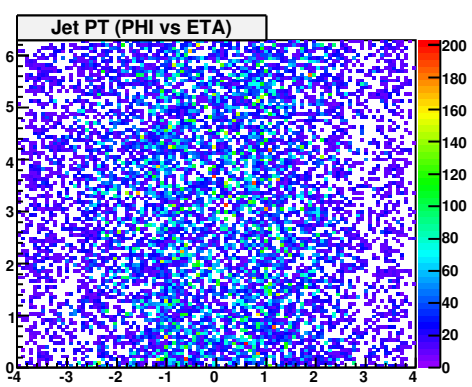



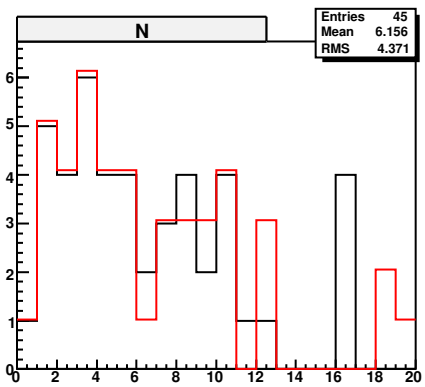



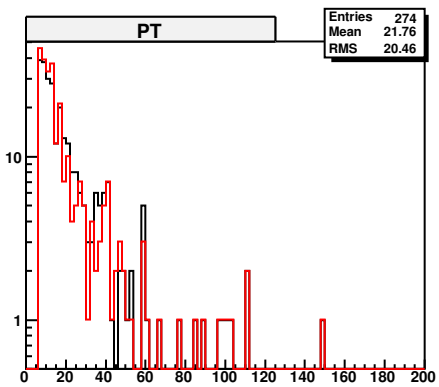



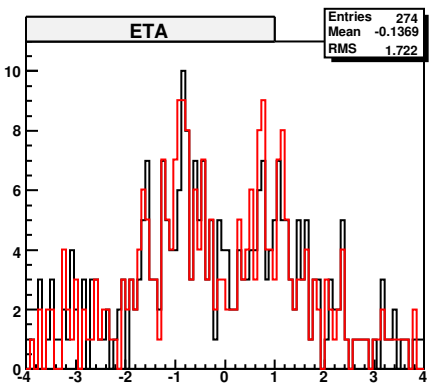



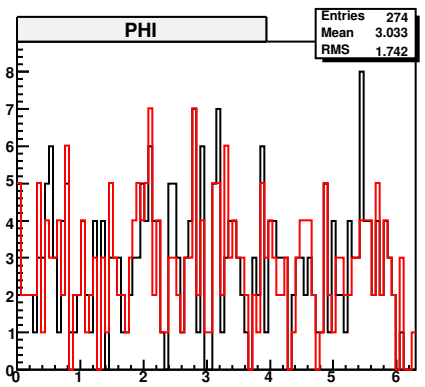



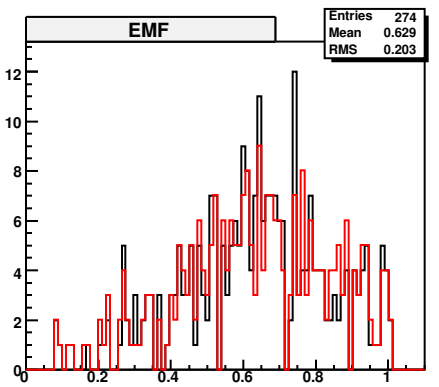

# Jets (KT D 1 (standard cuts))

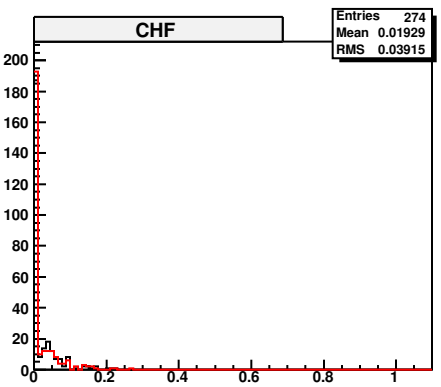


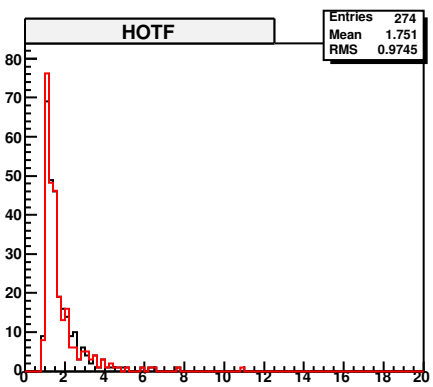



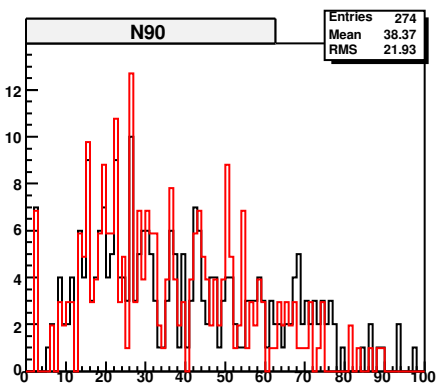



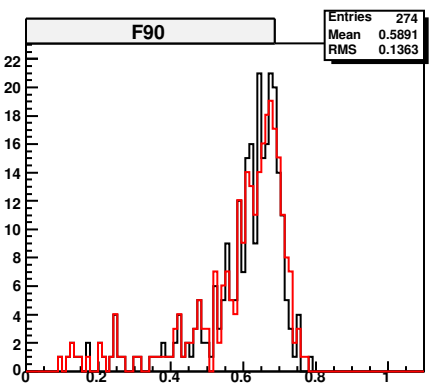



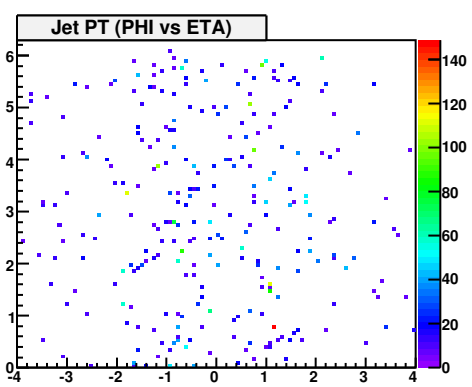



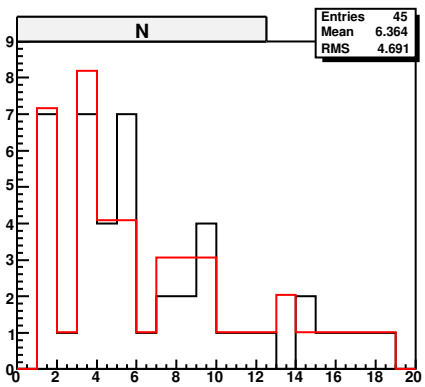



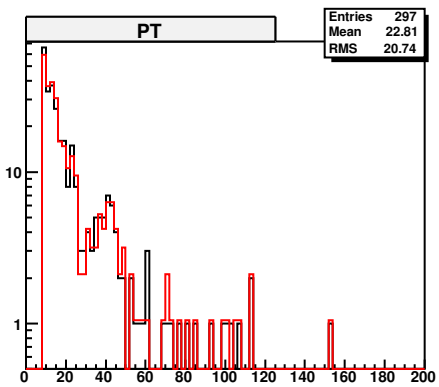



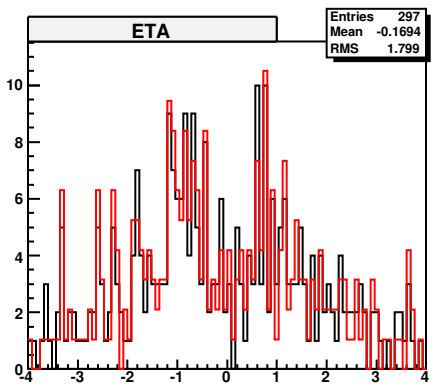



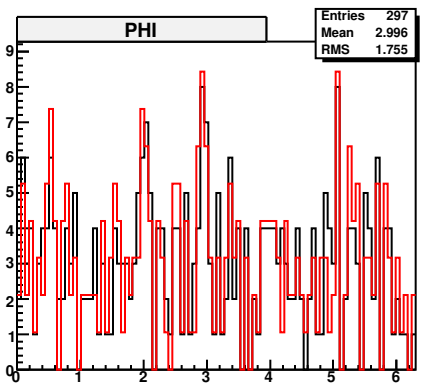



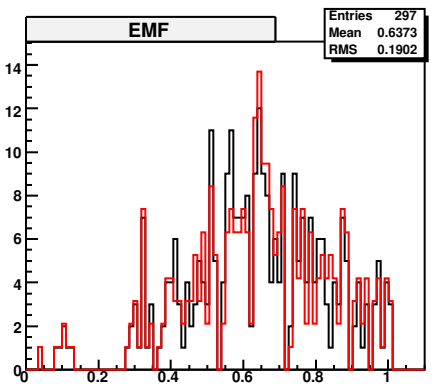

**Jets (Cone R 0.7 (standard cuts, MET>30))**

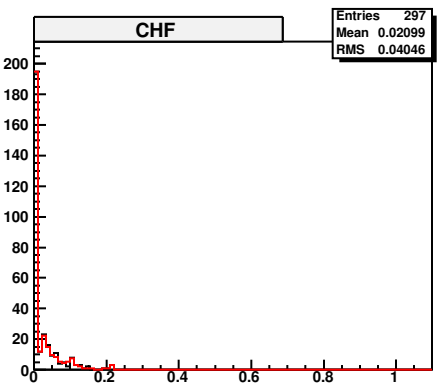


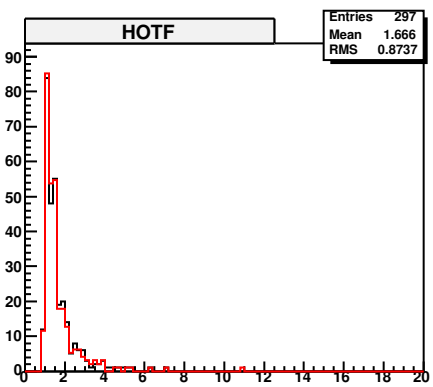



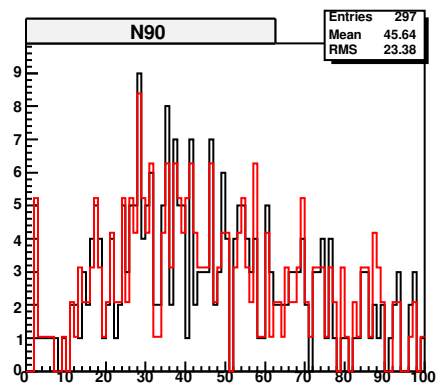



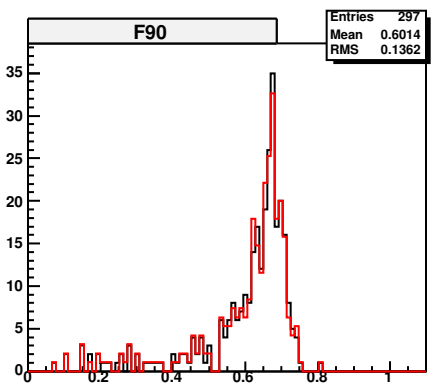



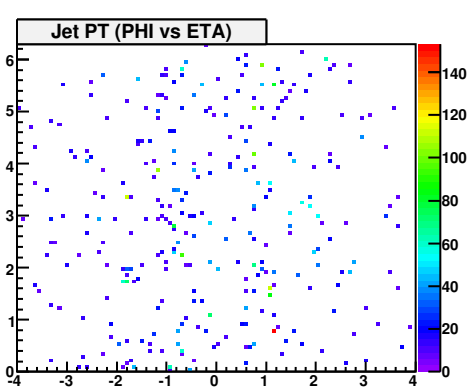



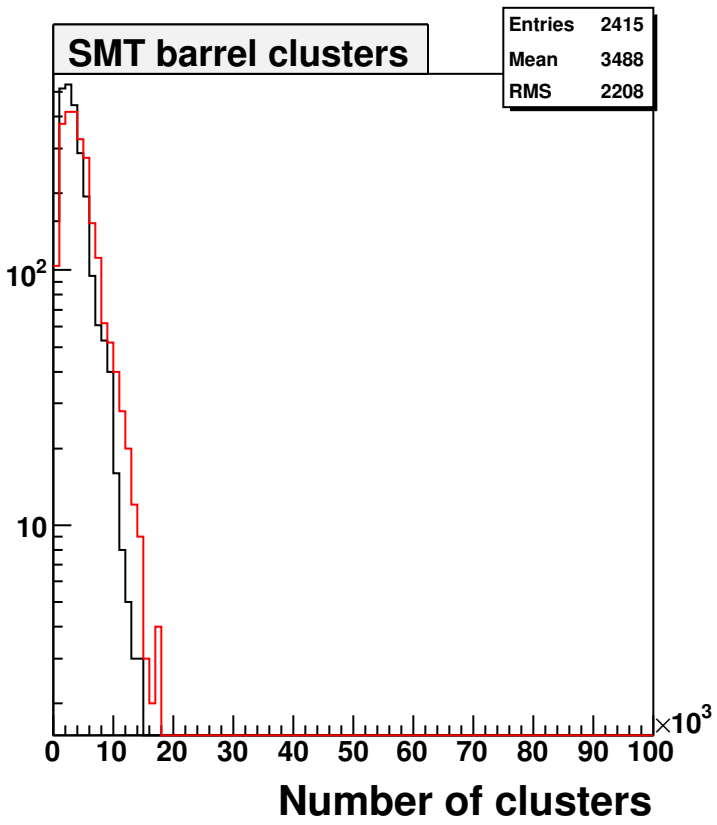



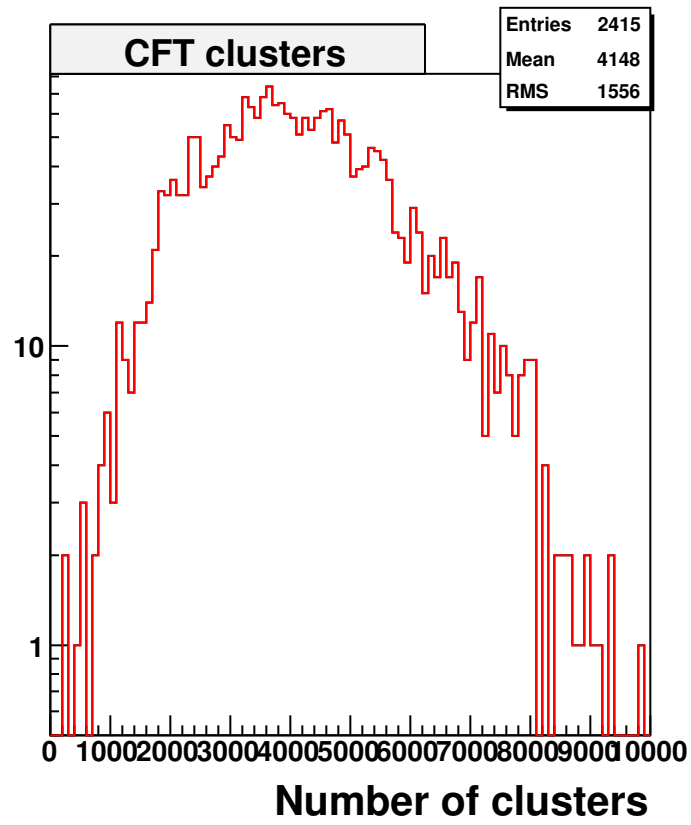



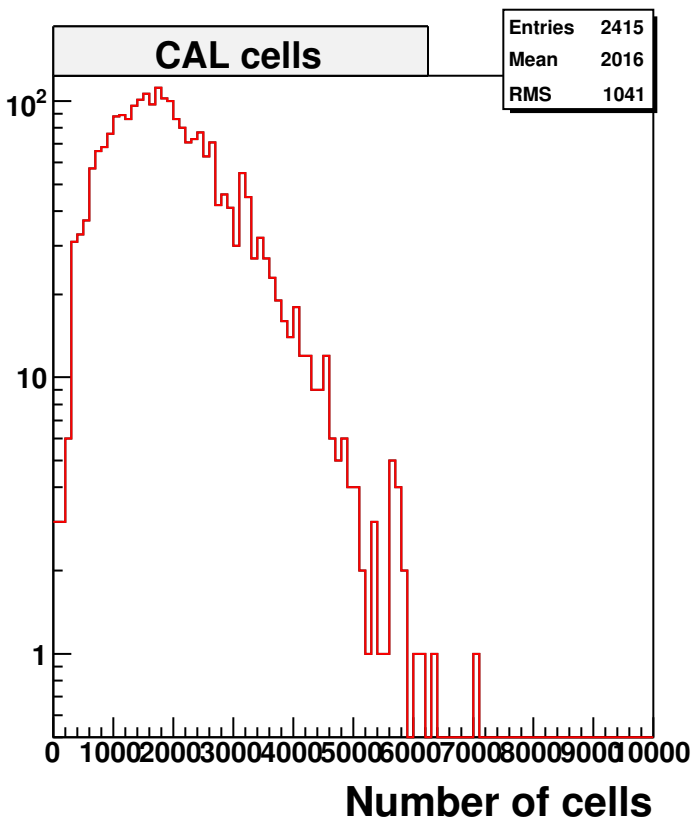



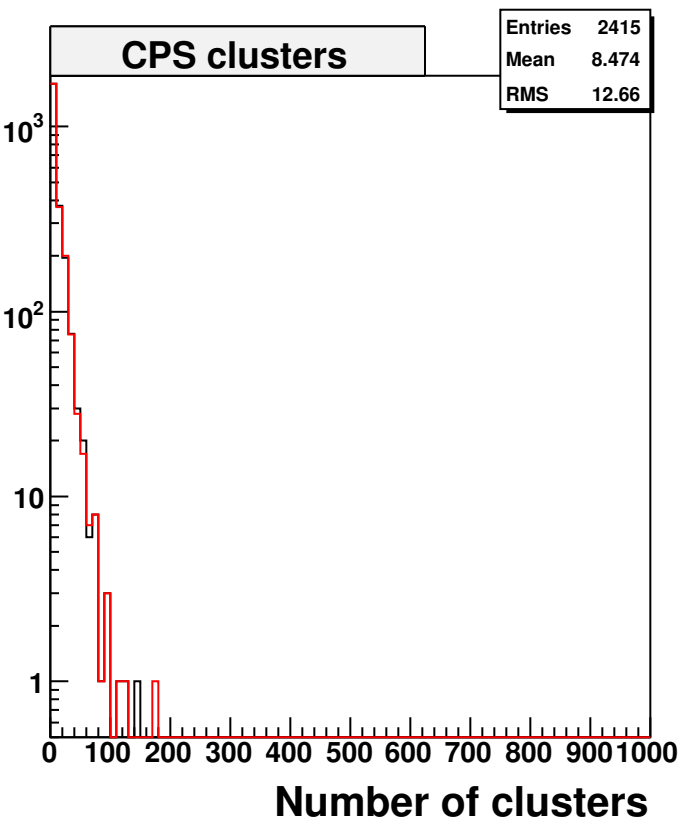




# Jets (KT D 1 (standard cuts, MET>30))

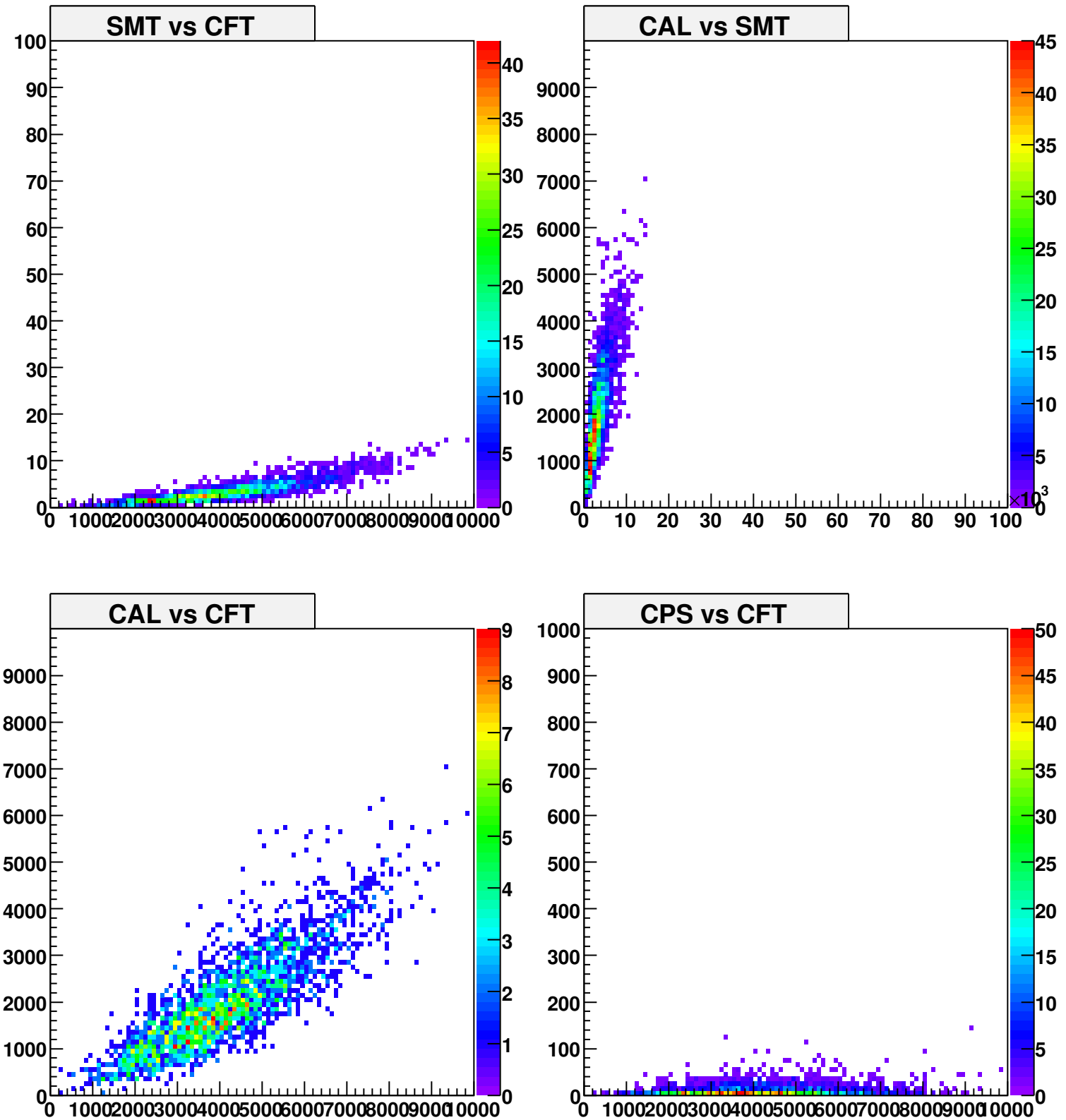


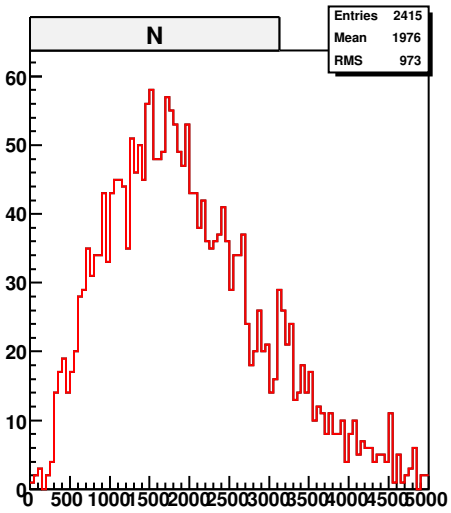



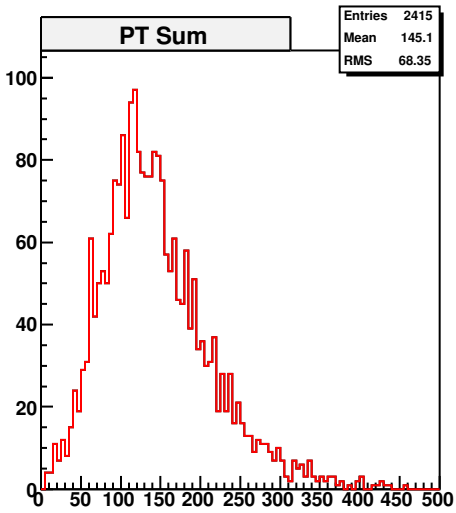



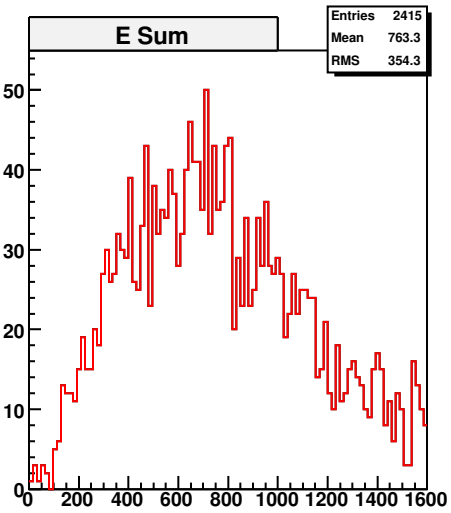



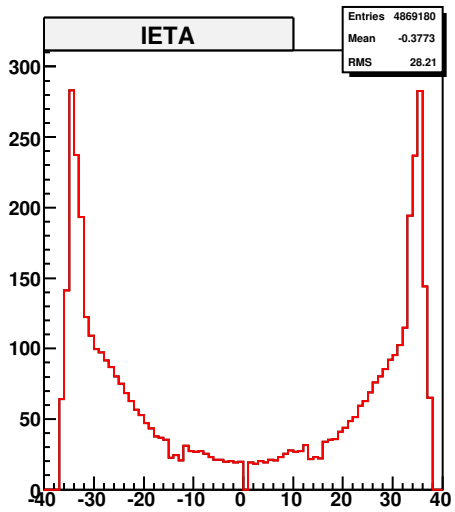

Detector Occupancy (Detector)

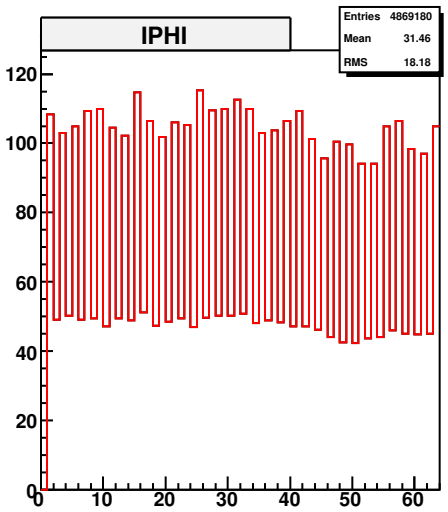

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

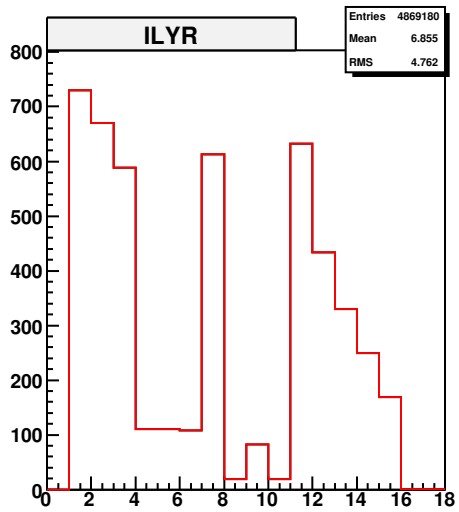


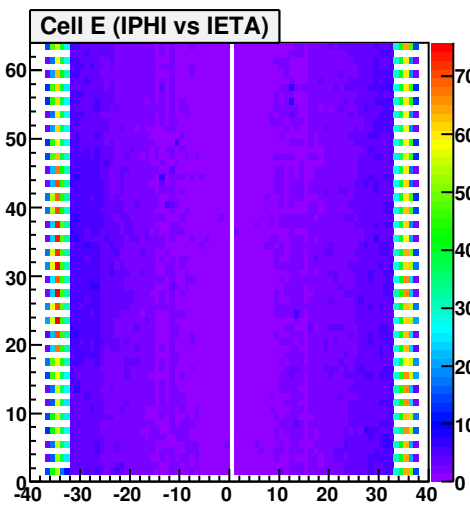



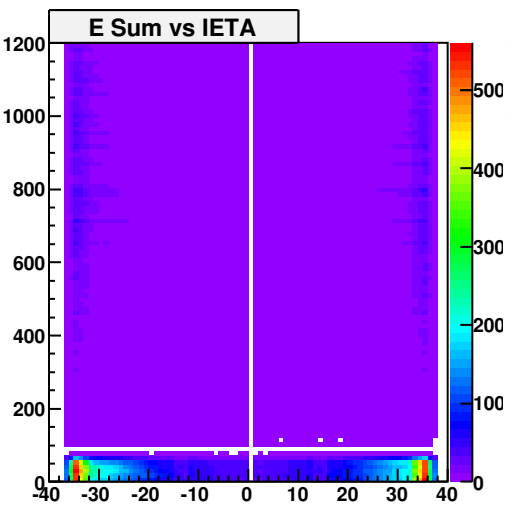



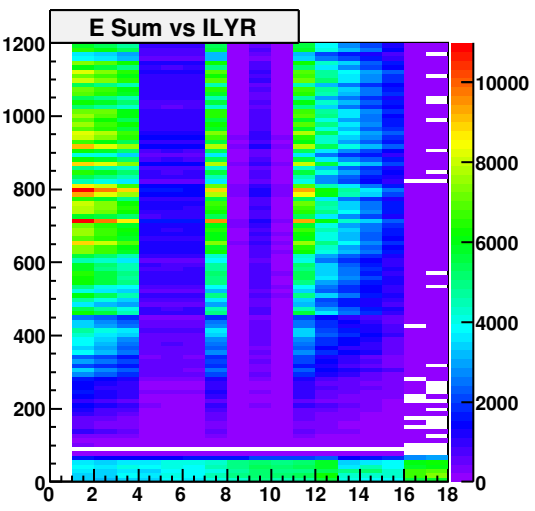



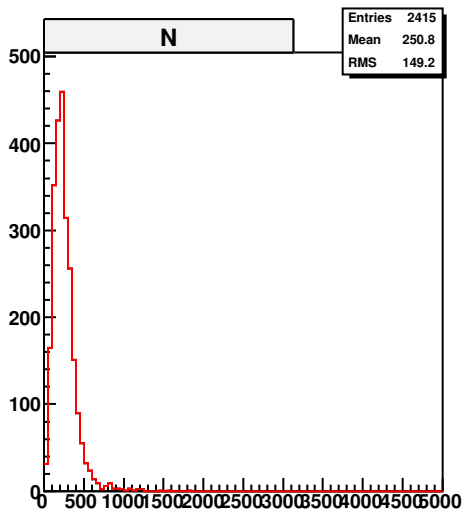



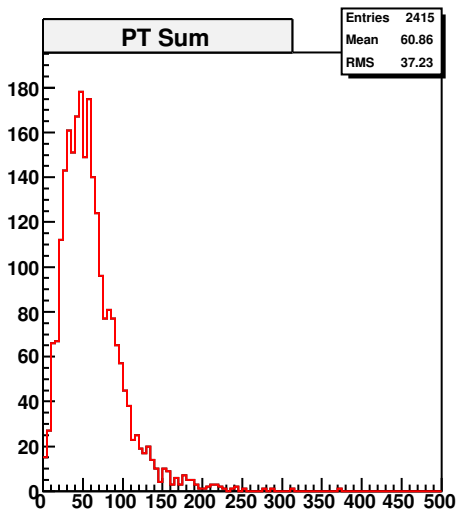



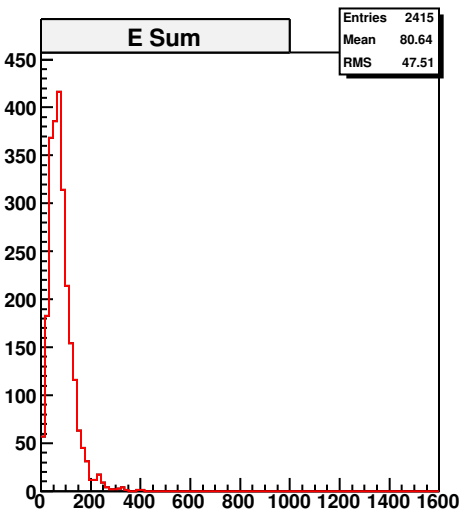



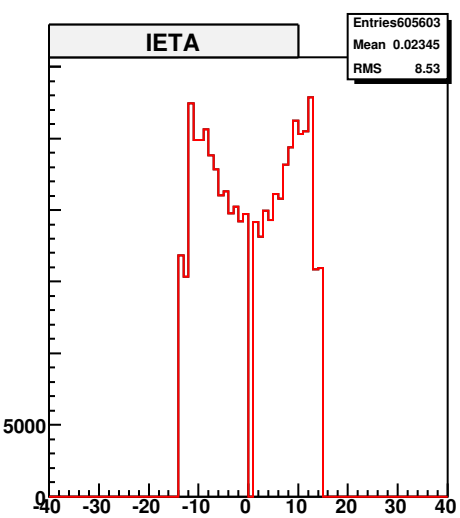



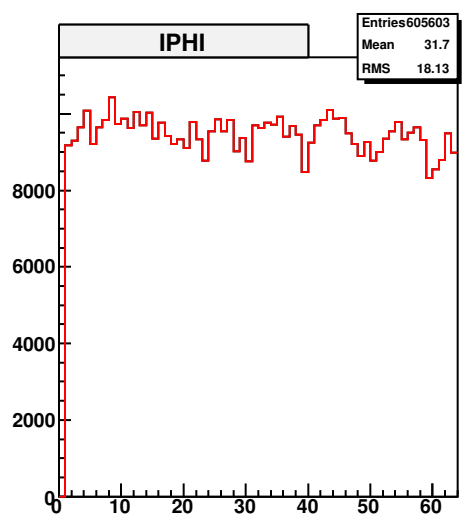

# Calorimeter (All cells)

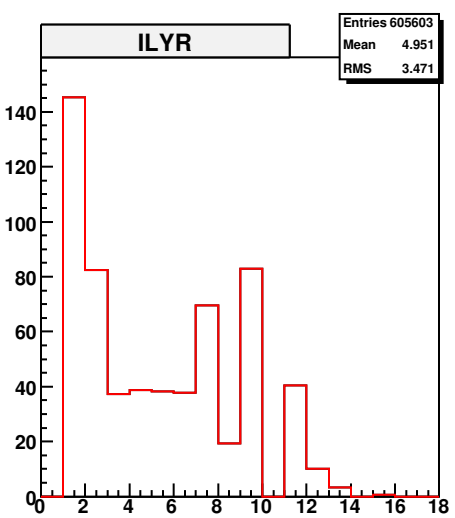


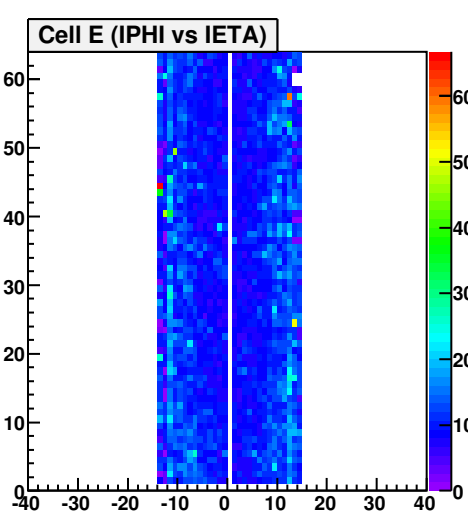



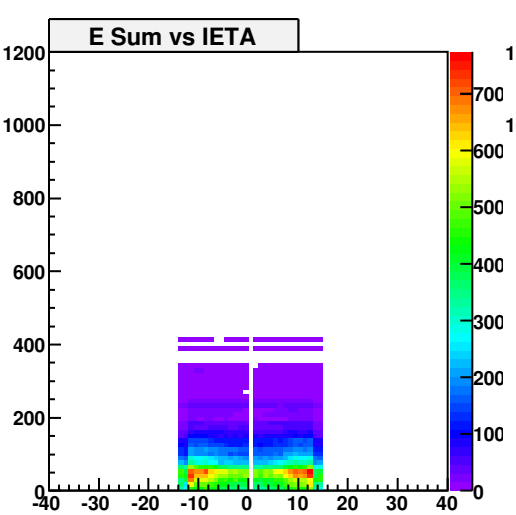



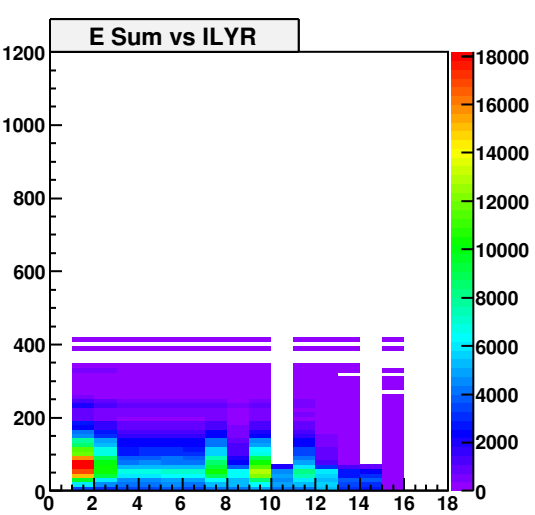



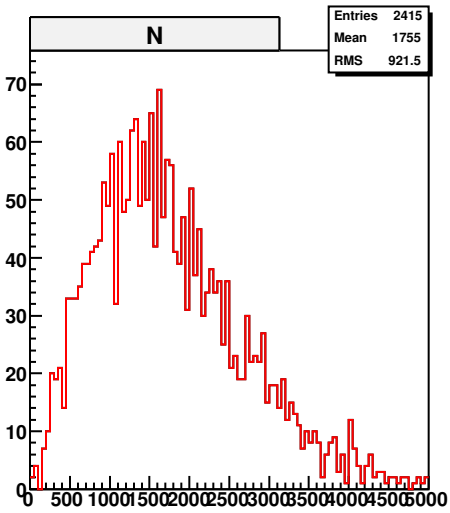



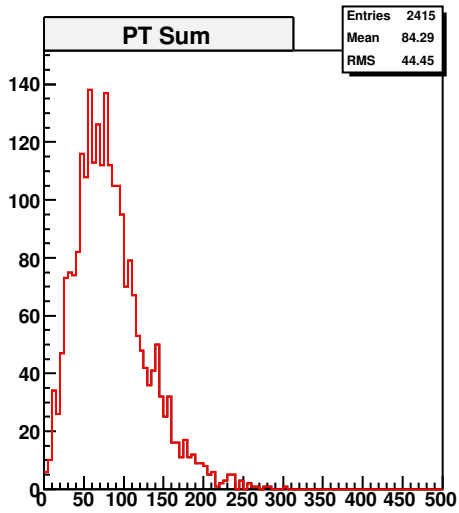



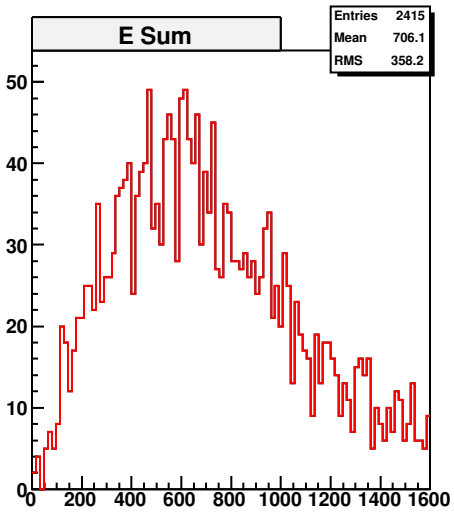



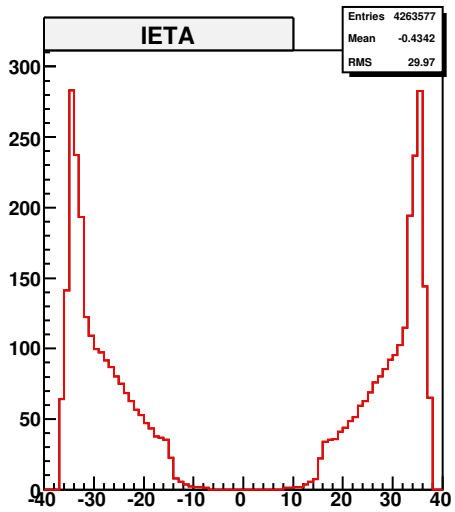



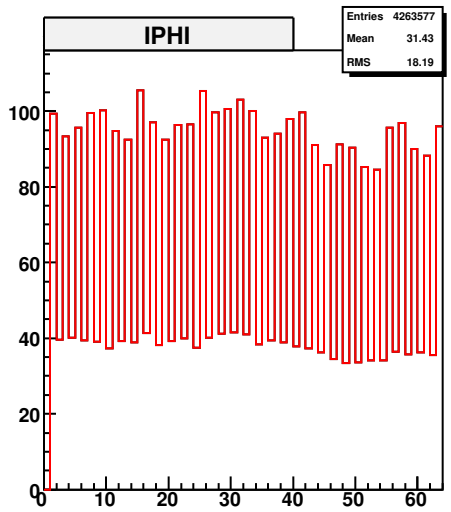

# Calorimeter (All CC cells)

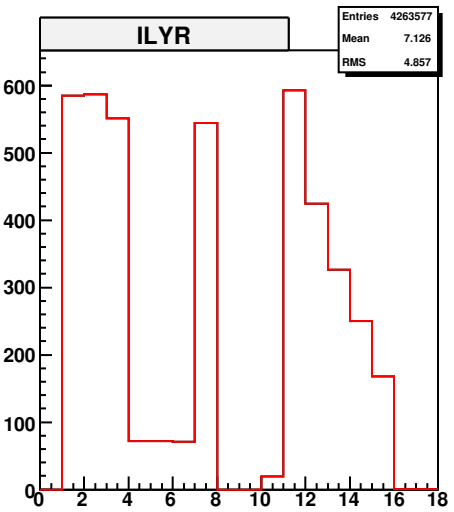


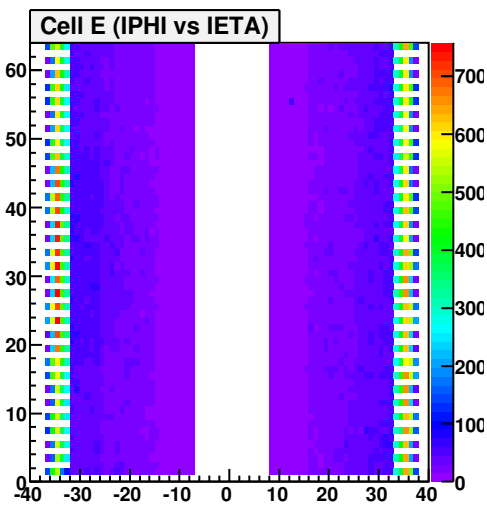



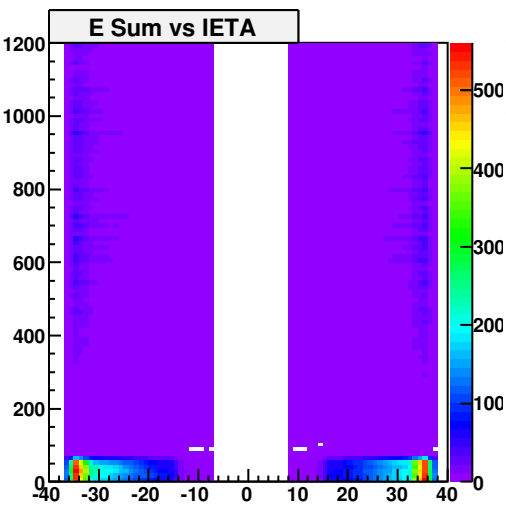



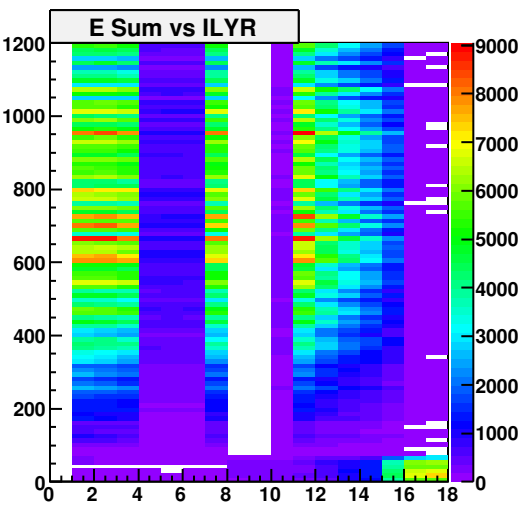



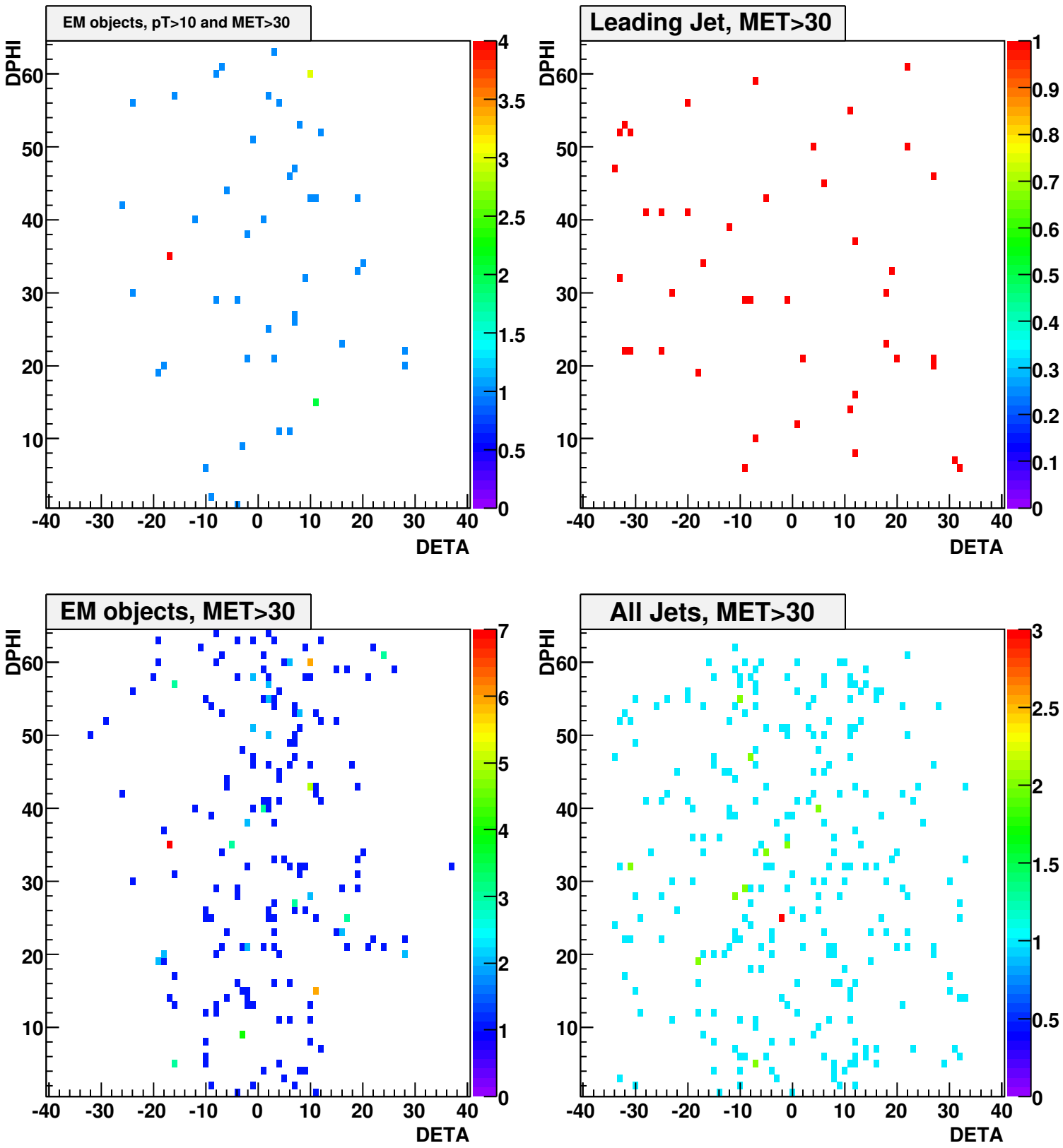



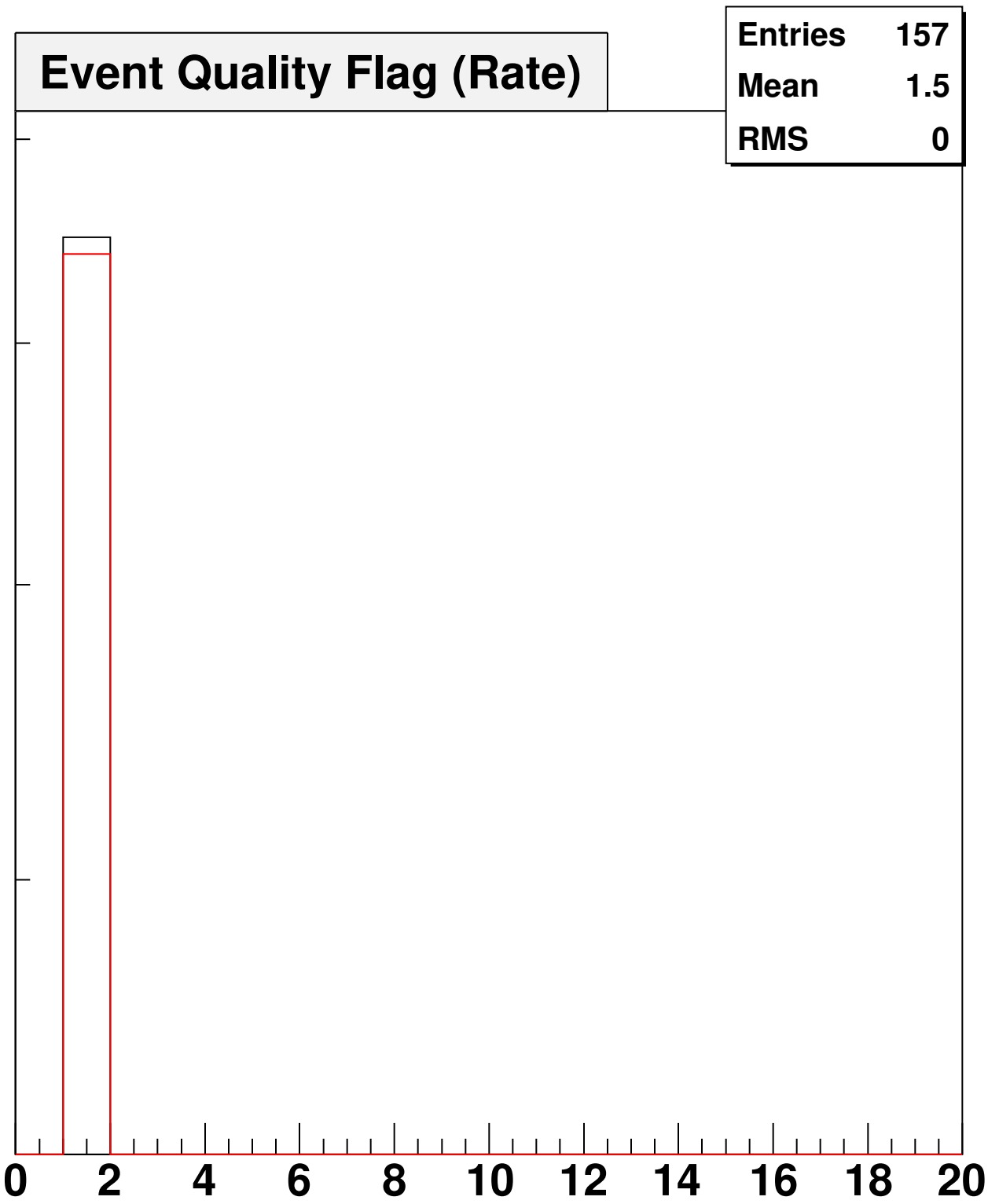



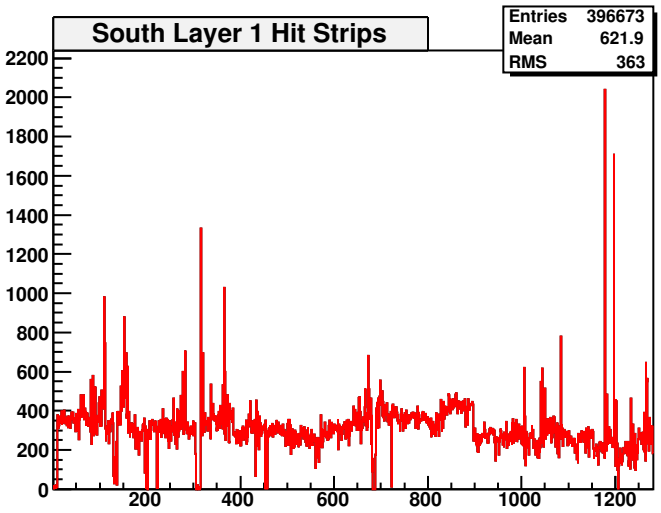



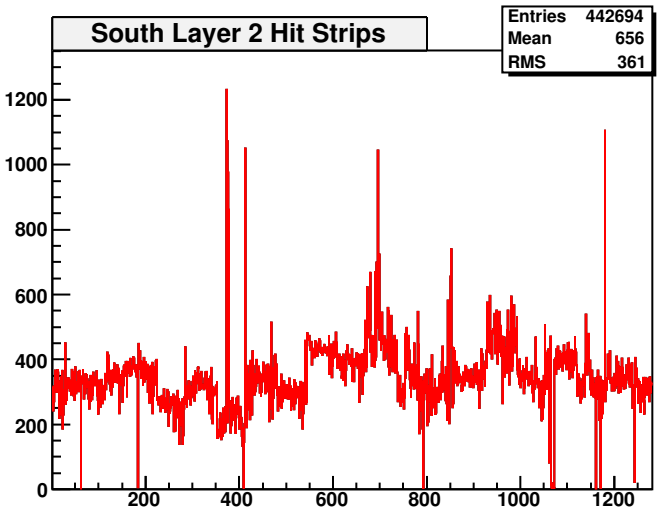

# Calorimeter (All EC cells)

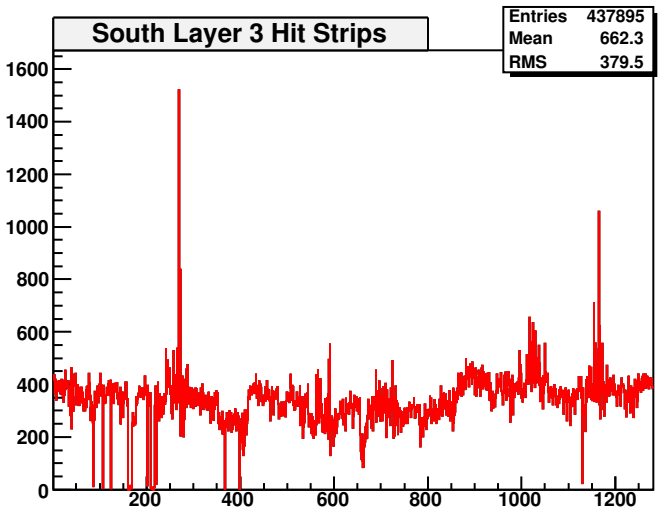


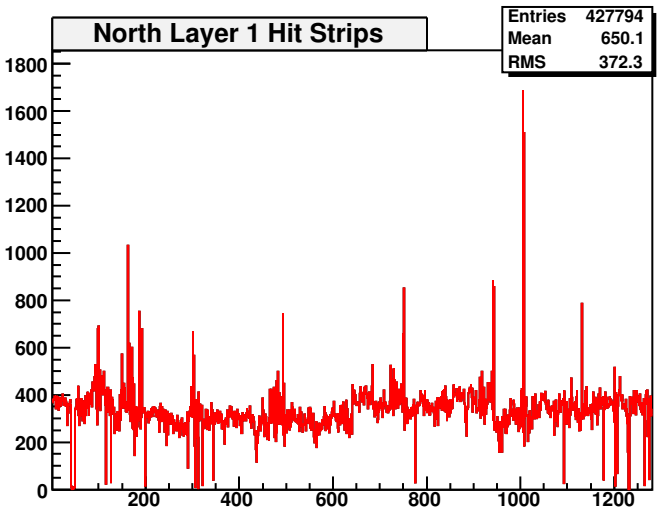

Cal Objects with MET>30 (All cells)

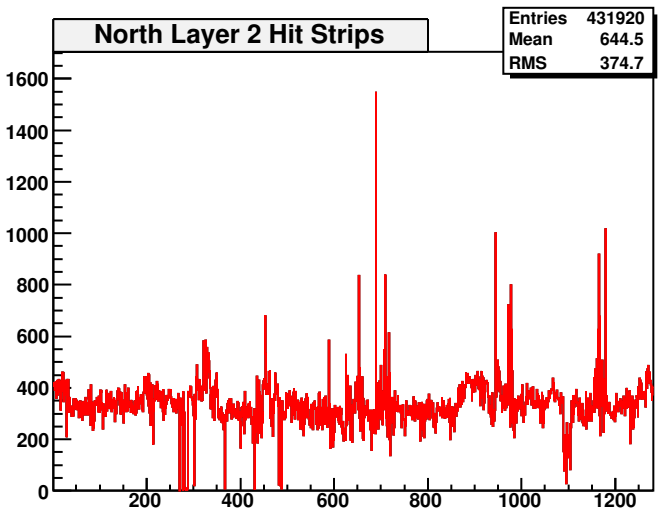

Event Quality Flag (Rate)
Entries 157
Mean 1.5
RMS 0
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

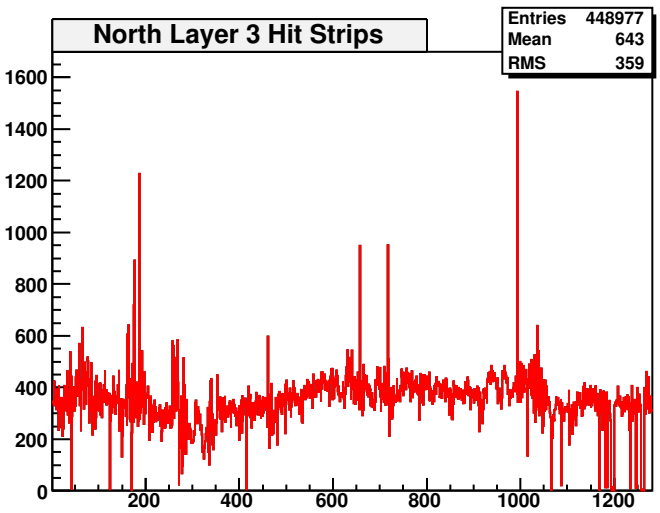


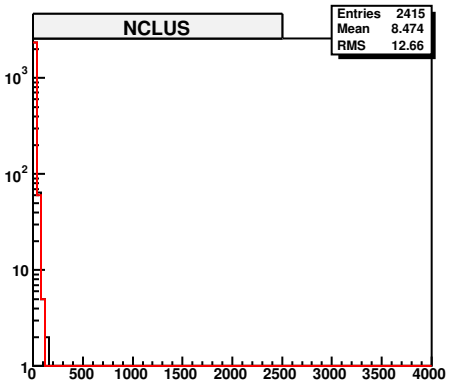



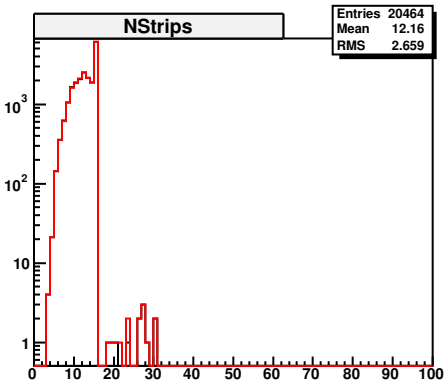



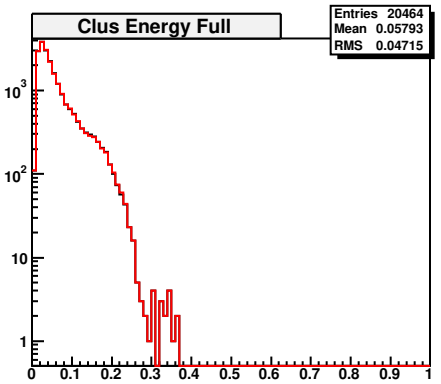



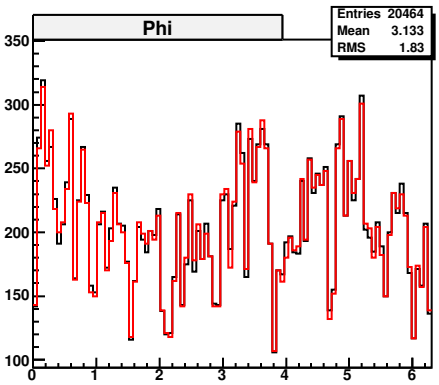



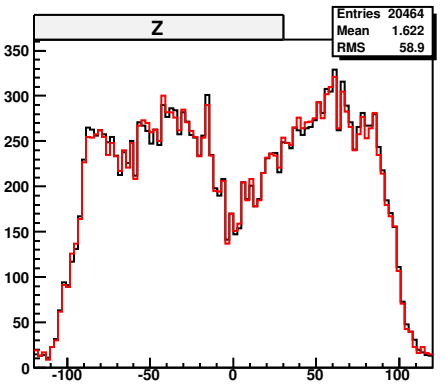

# CPS Hit Strips (All Clusters)

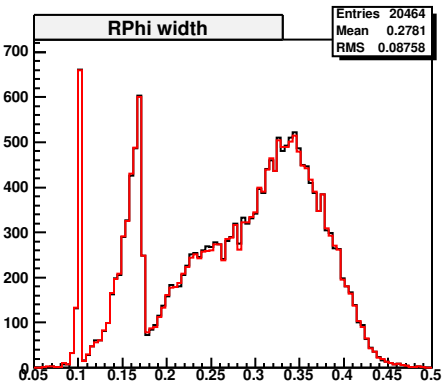


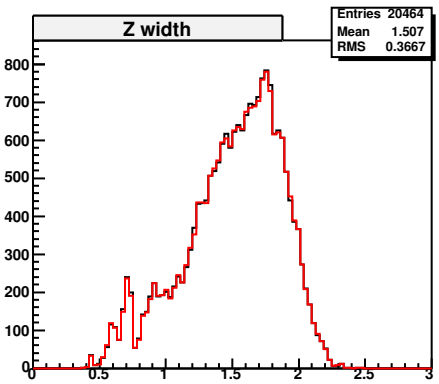



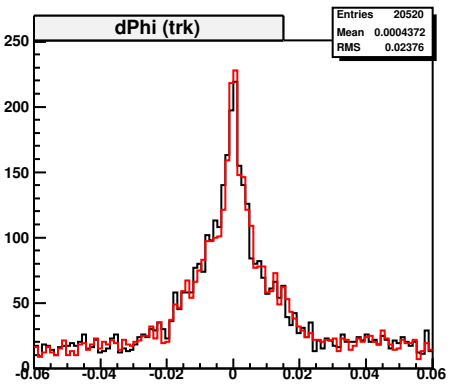



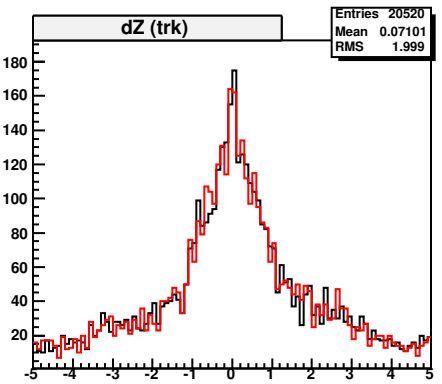



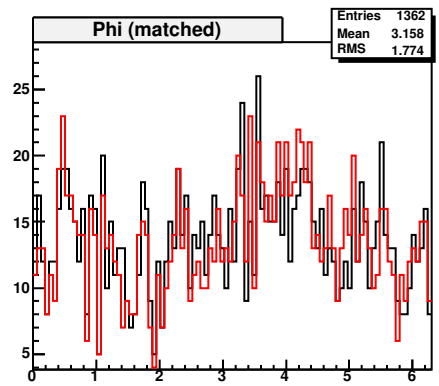



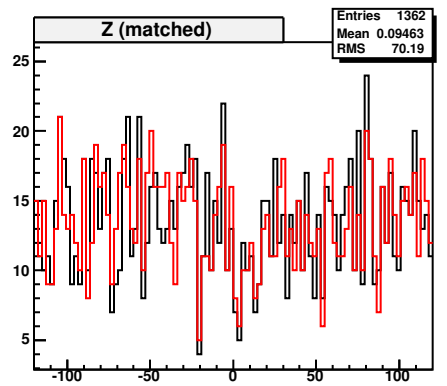



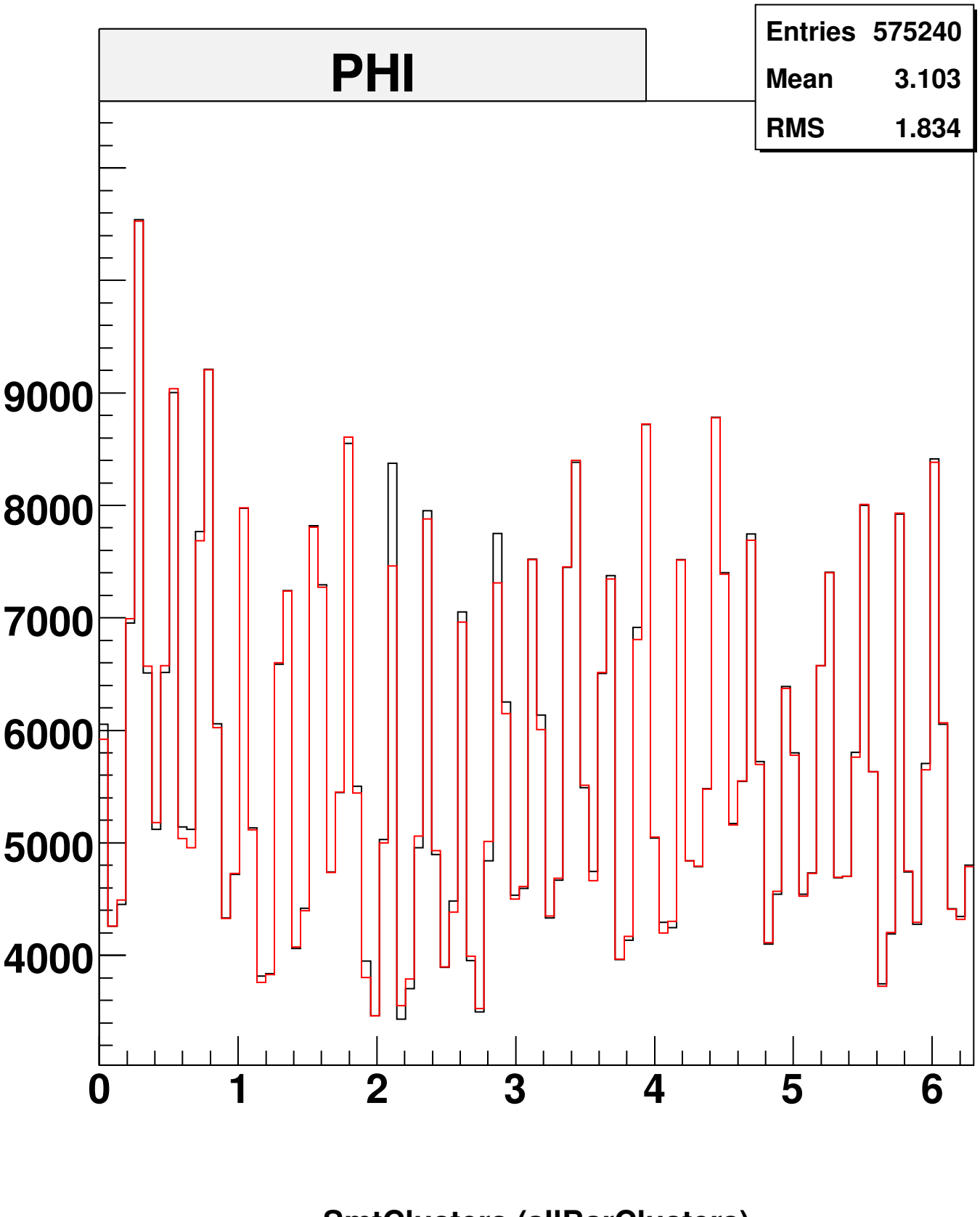



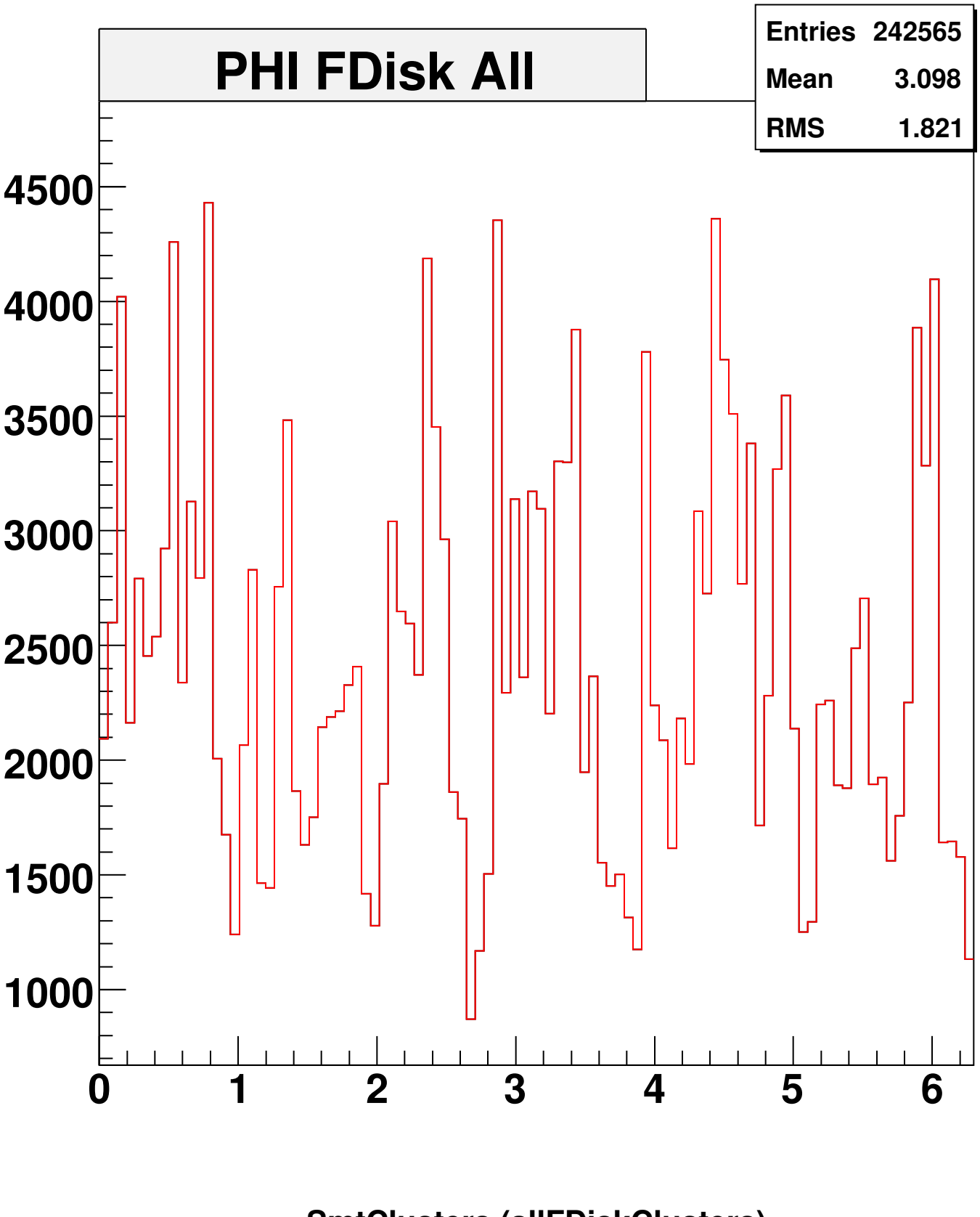



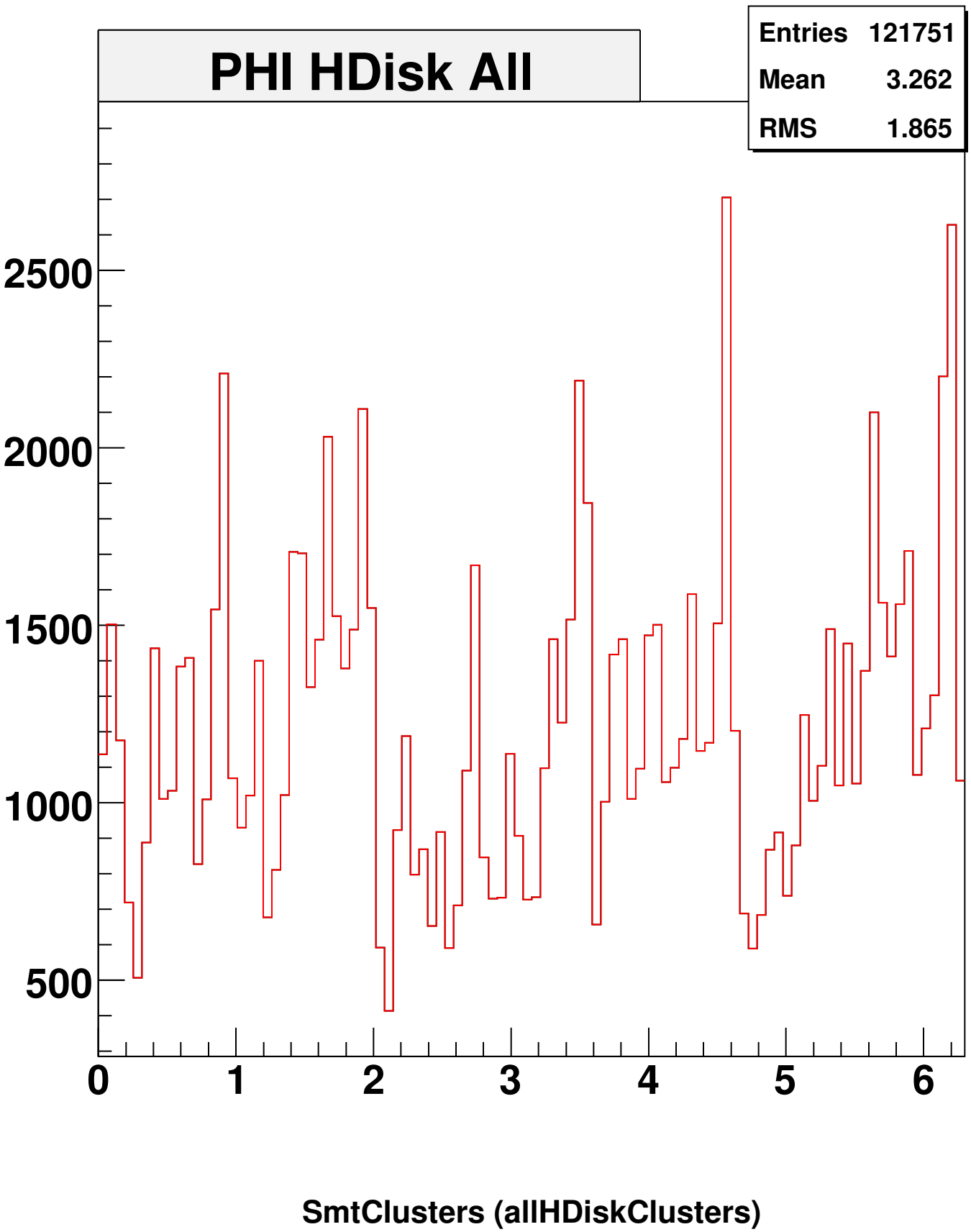



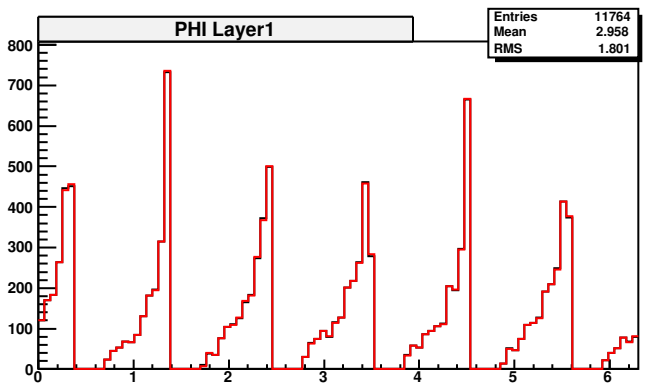



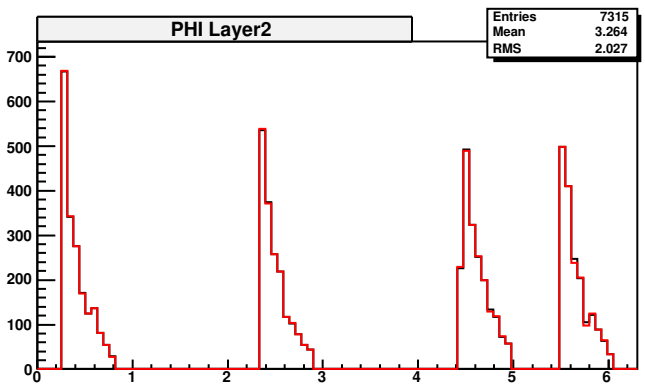

# CPS Clusters (All Clusters)

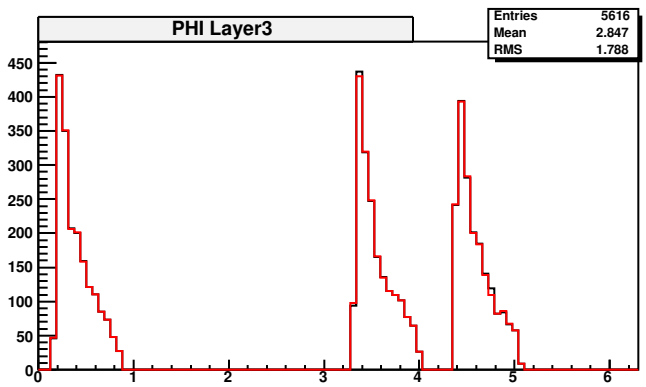

PHI
Entries 575240
Mean 3.103
RMS 1.834
9000
8000
7000
6000
5000
4000
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

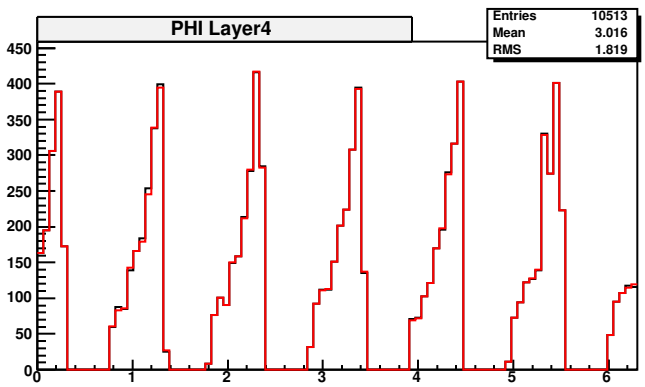

PHI FDisk All
Entries 242565
Mean 3.098
RMS 1.821
4500
4000
3500
3000
2500
2000
1500
1000
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

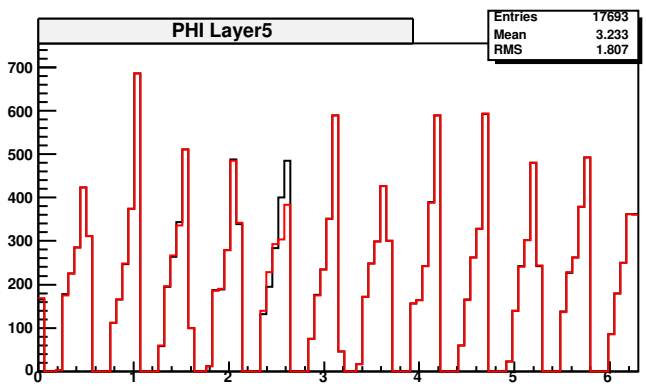

PHI HDisk All
Entries 121751
Mean 3.262
RMS 1.865
2500
2000
1500
1000
500
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

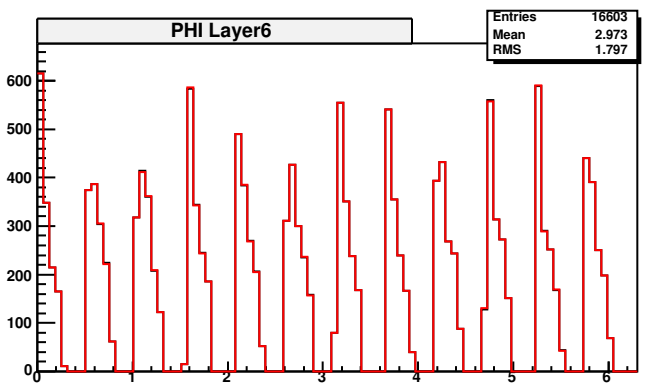


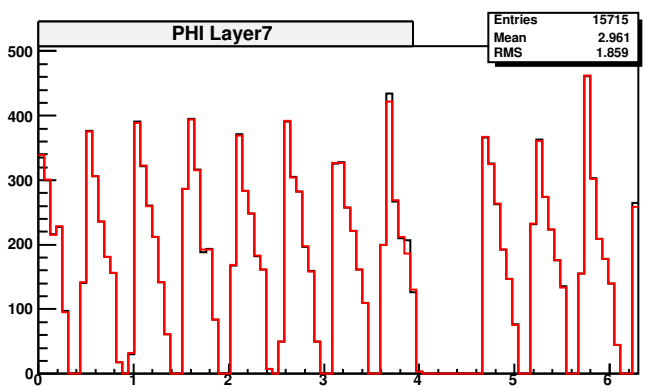



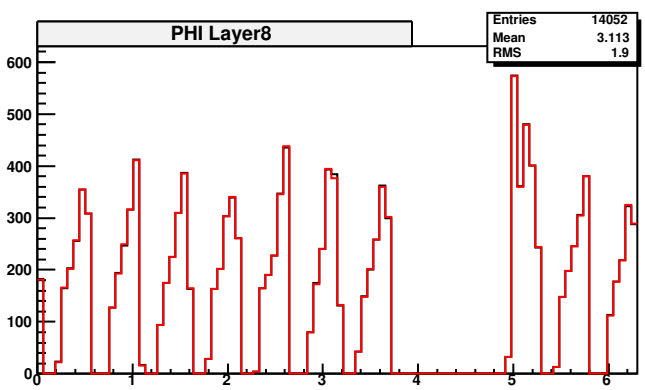



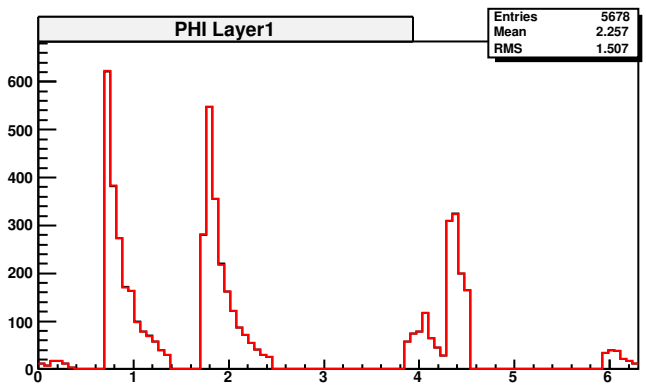



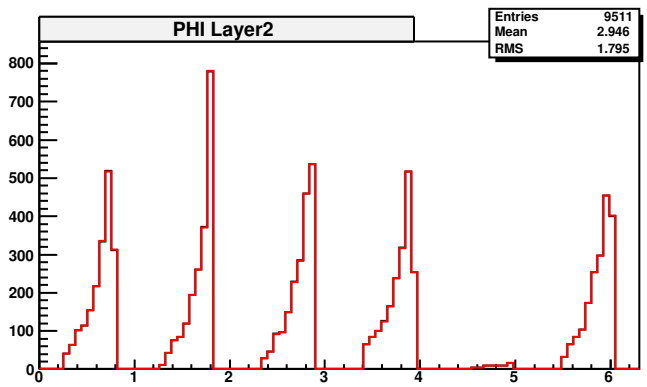



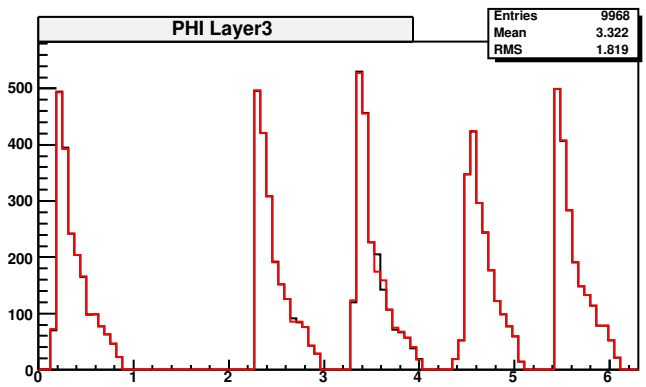



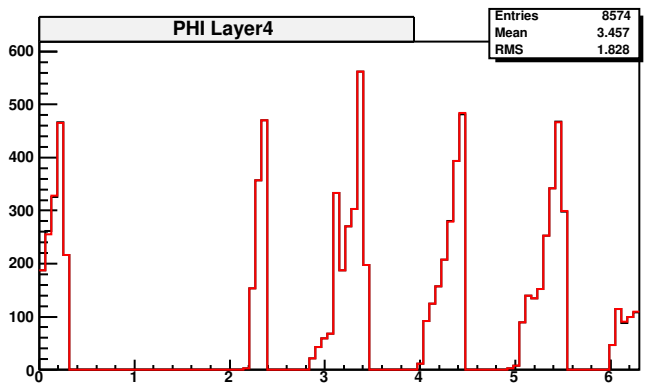



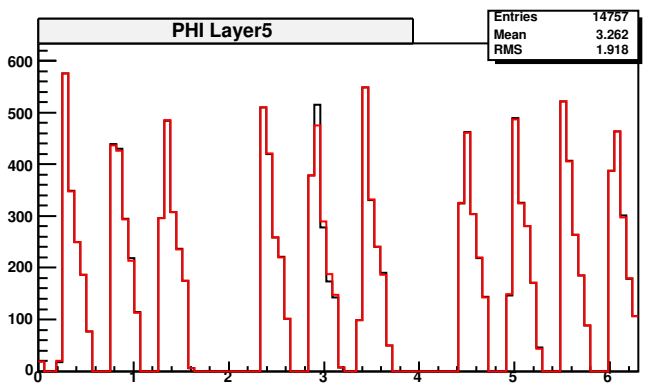

# SmtClusters (ClustrBar1)

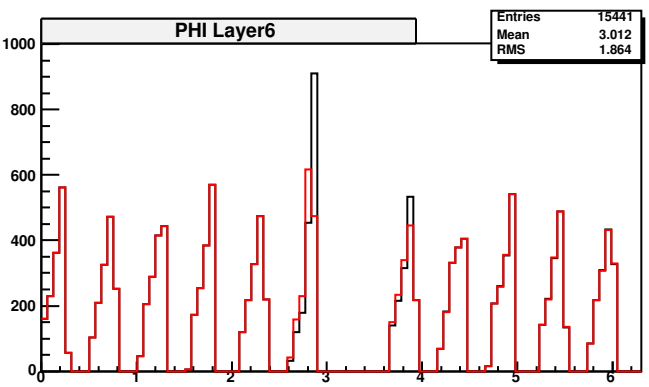


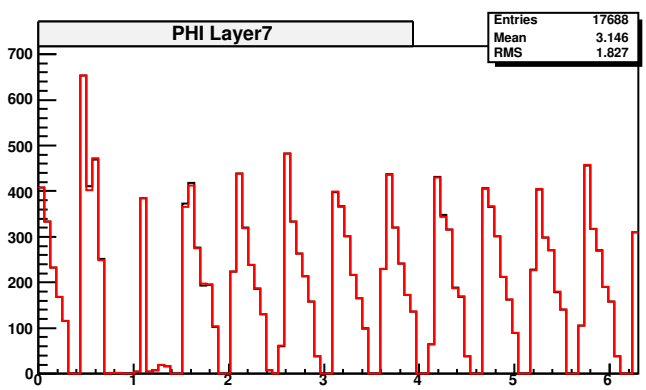



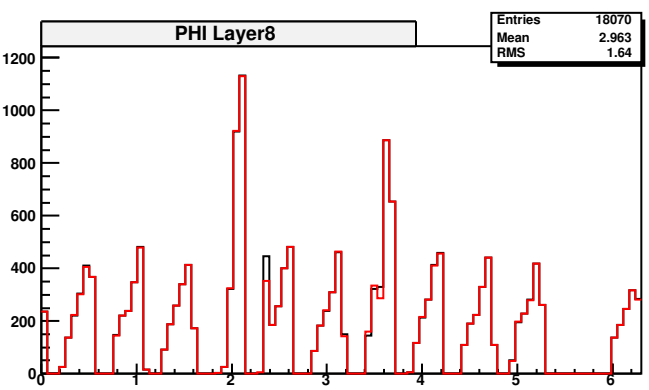



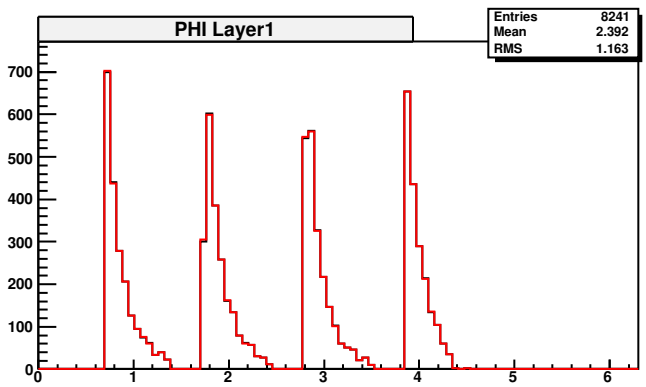



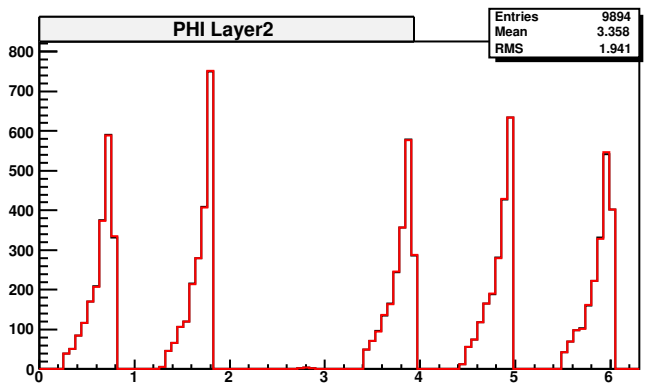



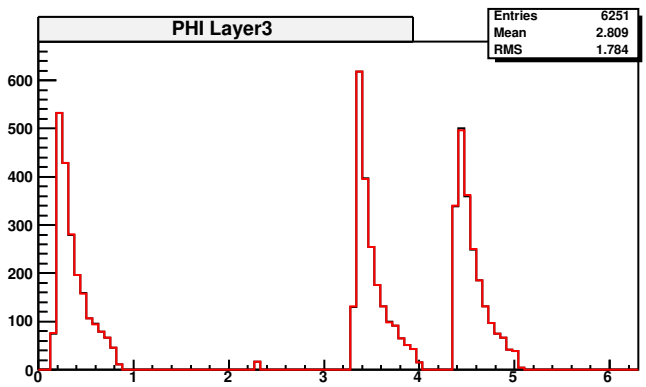



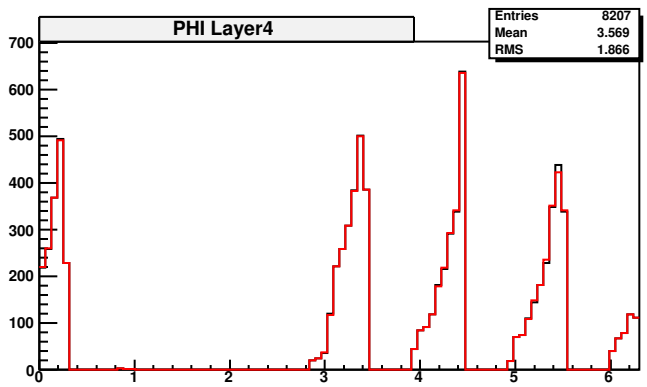



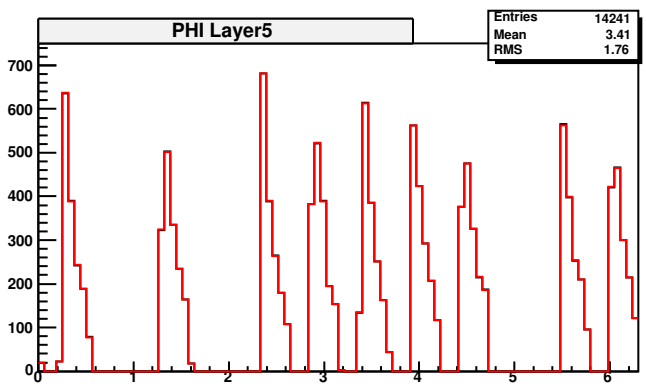

# SmtClusters (ClustrBar2)

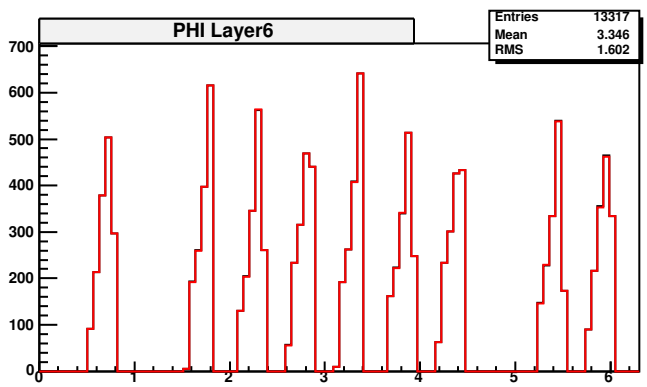


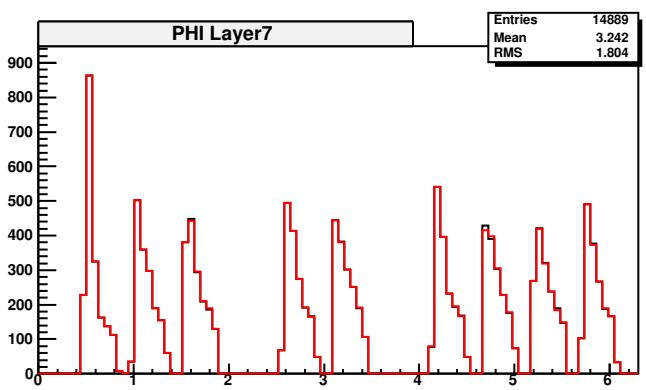



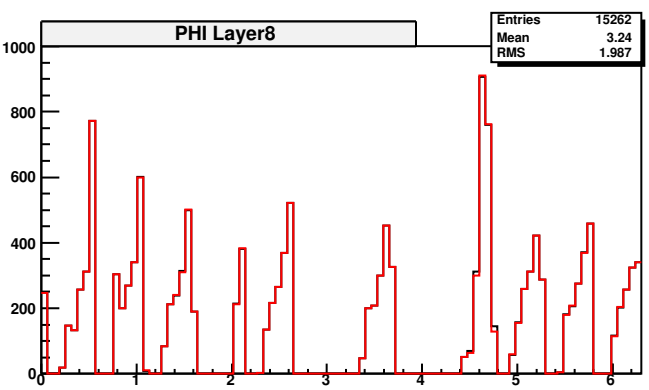



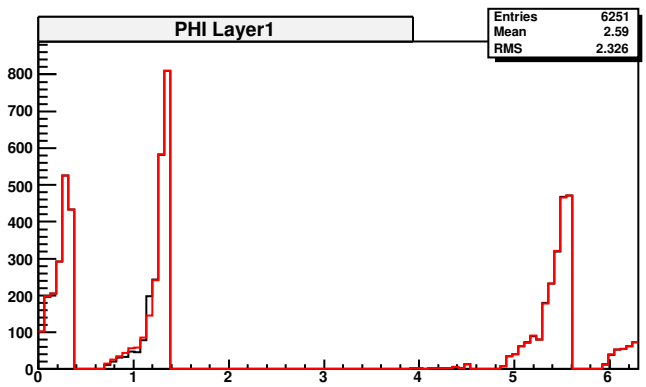



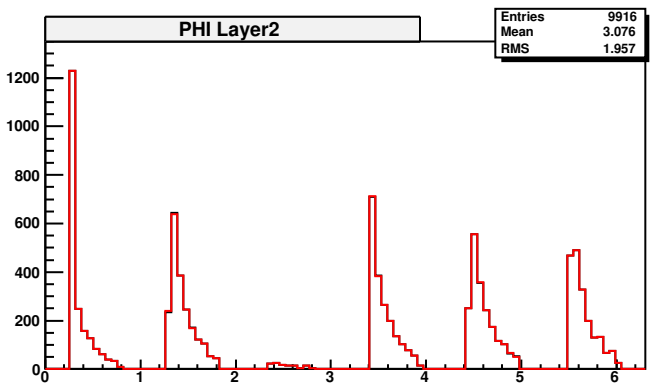



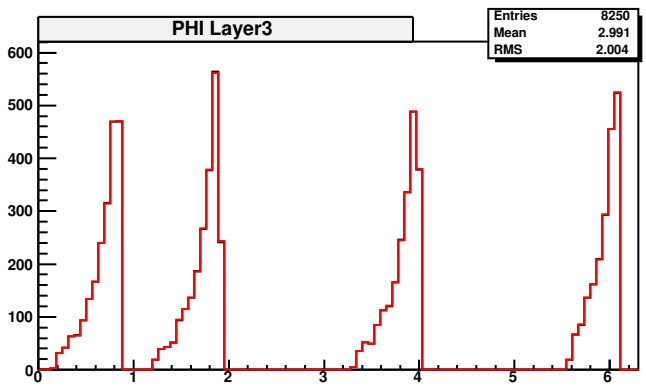



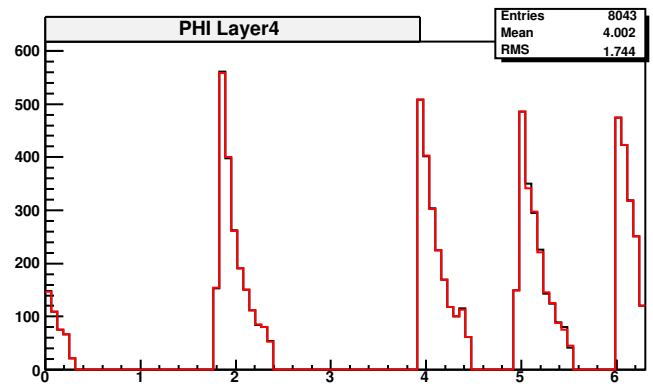



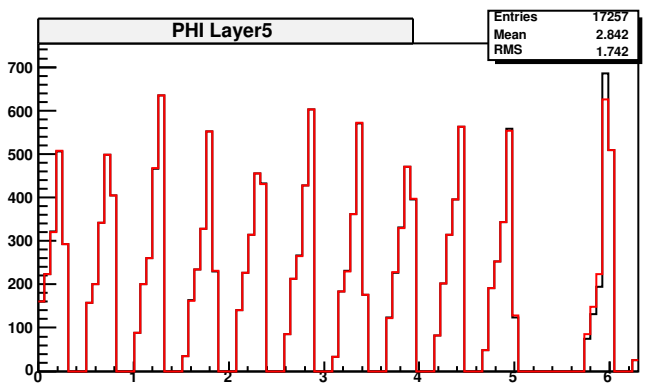

# SmtClusters (ClustrBar3)

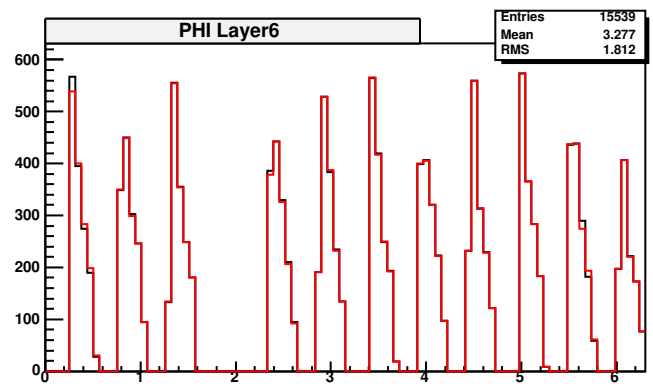


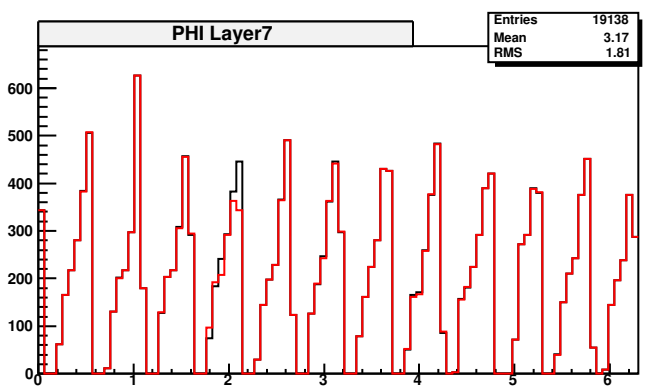



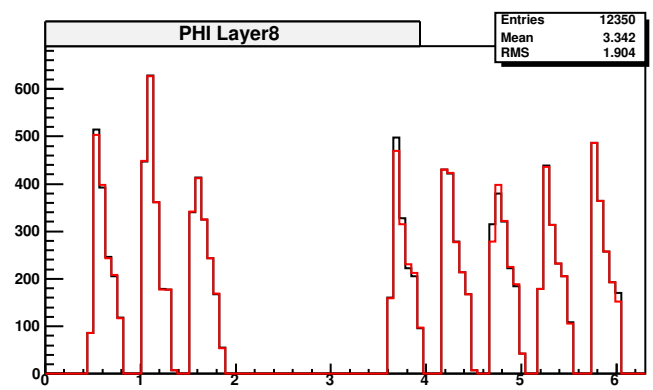



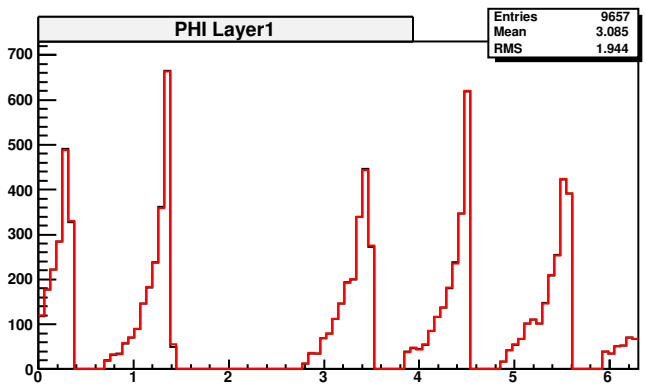



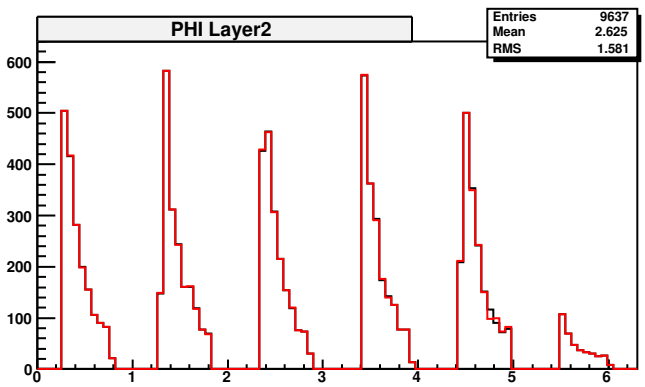



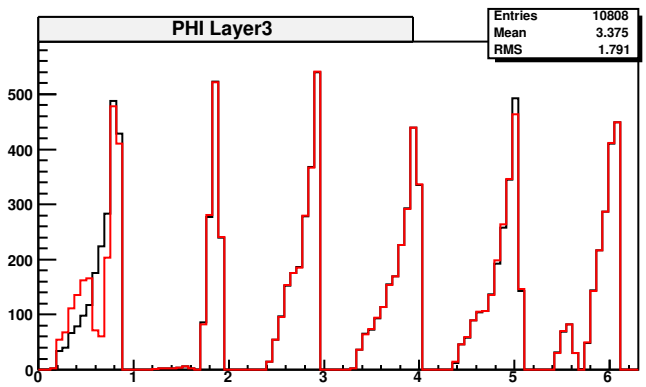



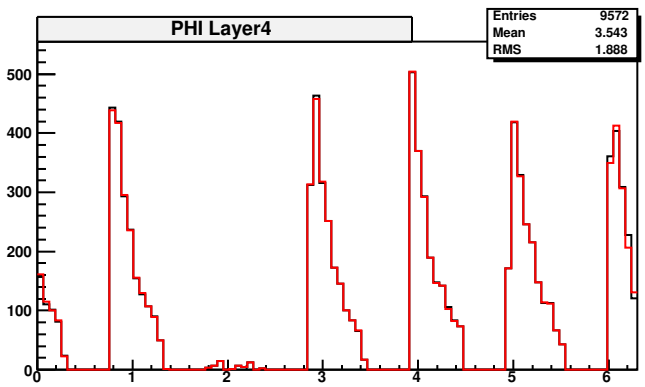



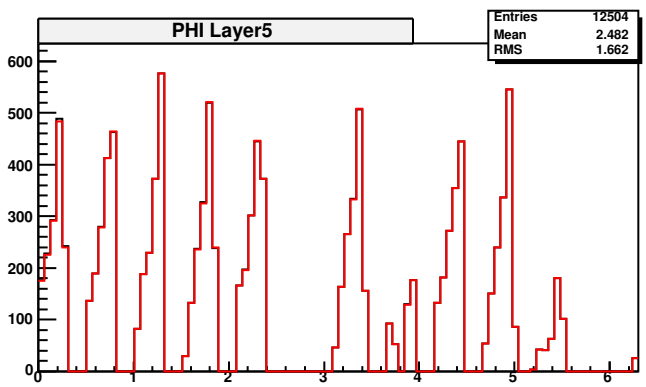

# SmtClusters (ClustrBar4)

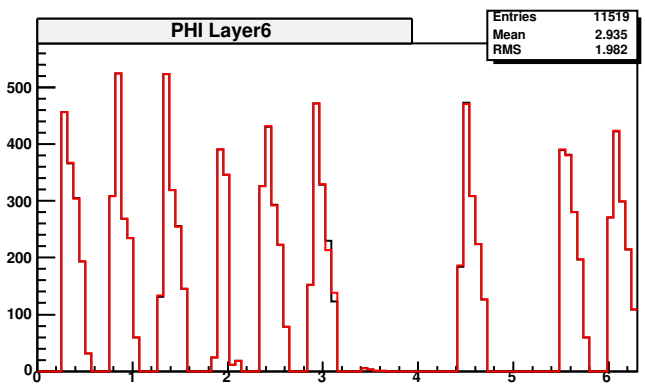


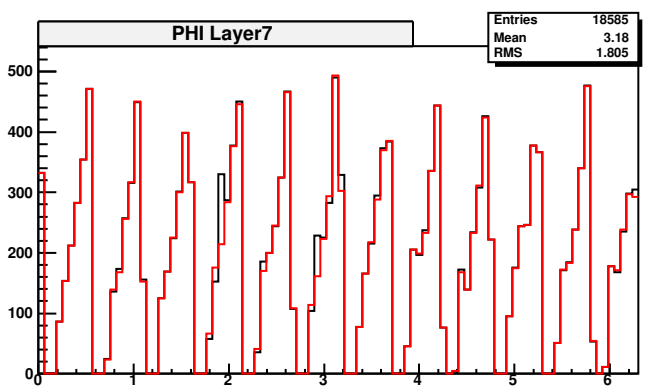



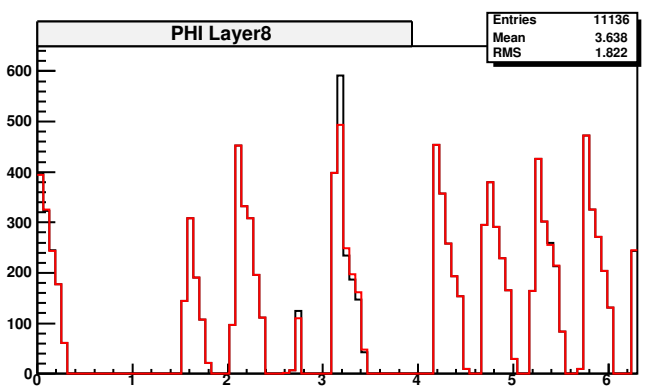



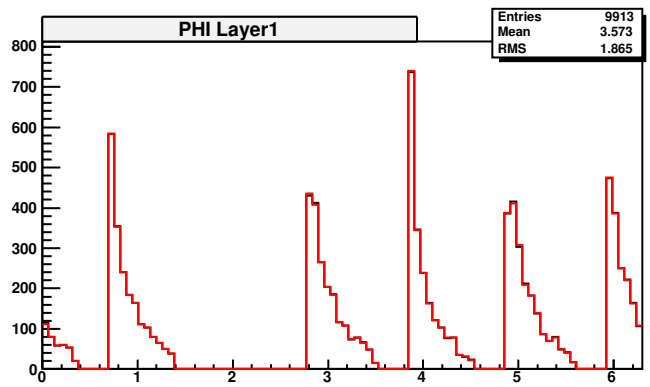



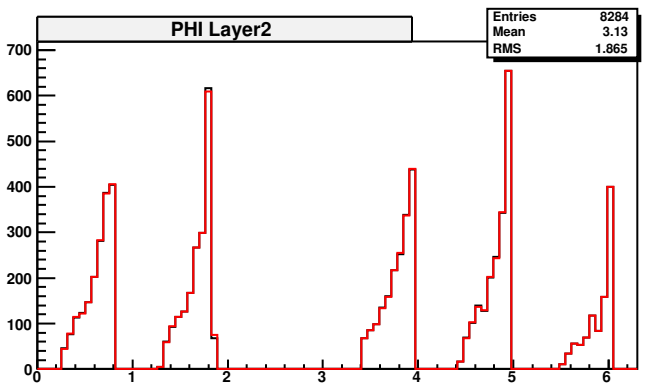



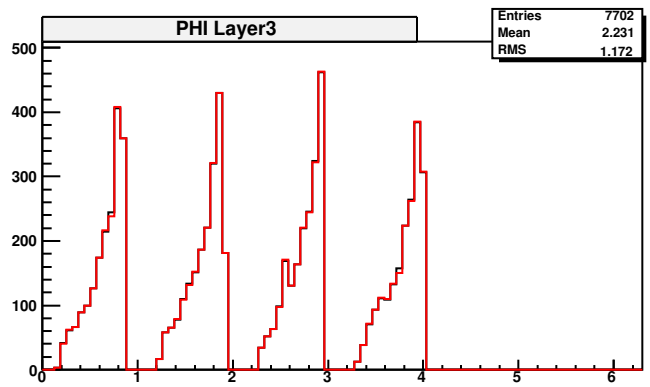



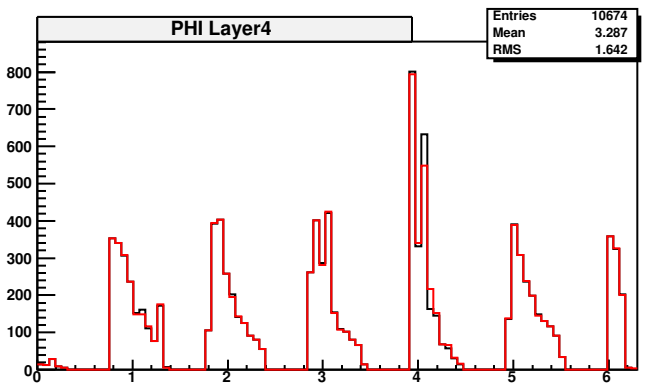



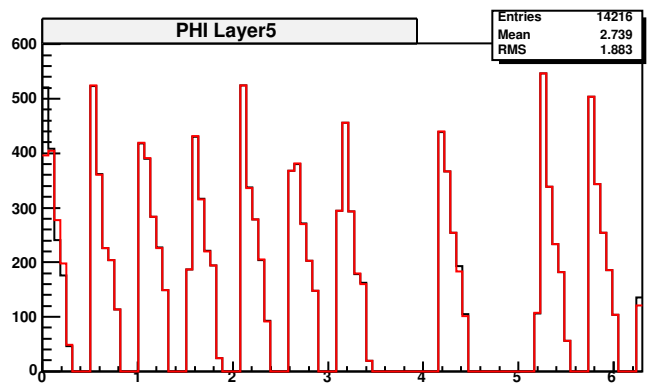

# SmtClusters (ClustrBar5)

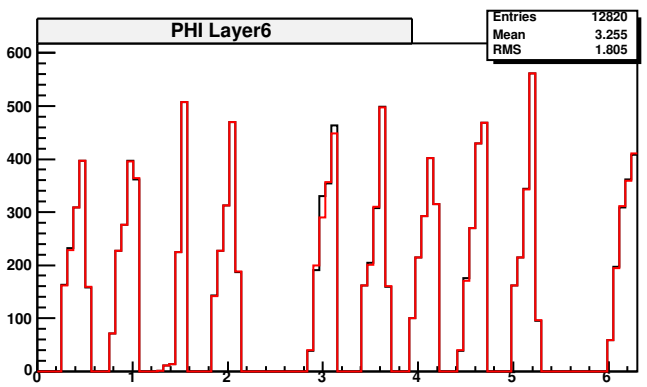


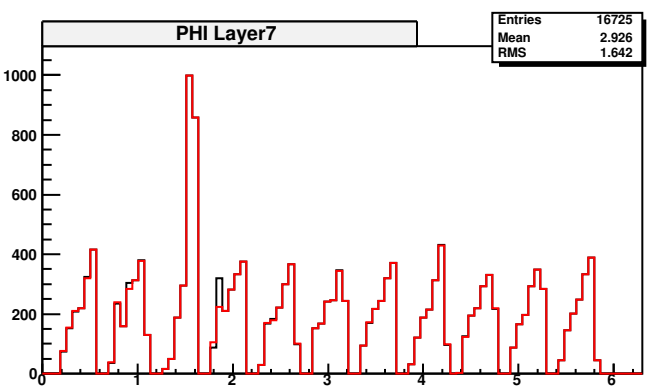



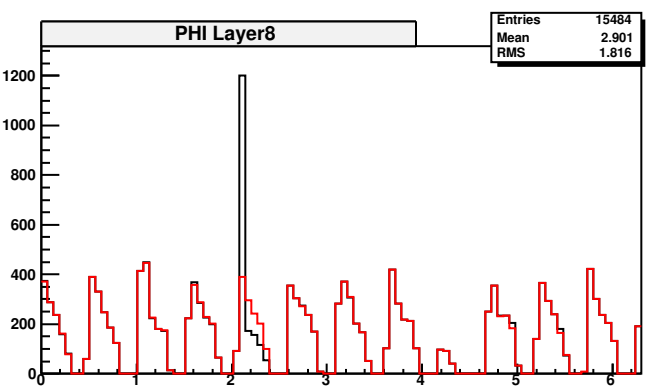



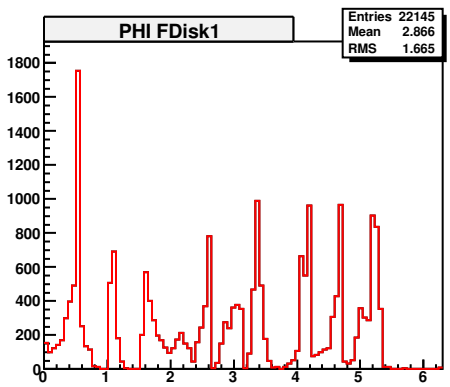



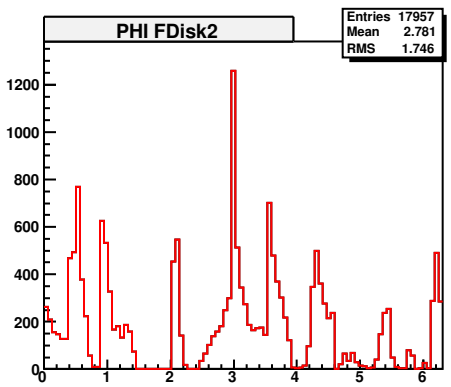



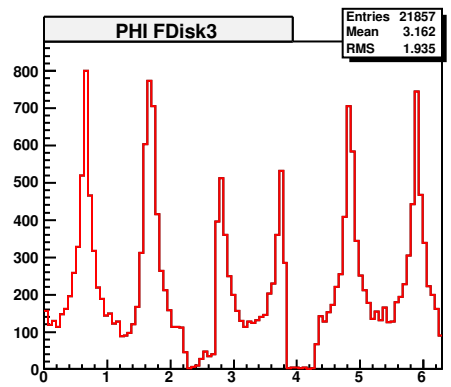



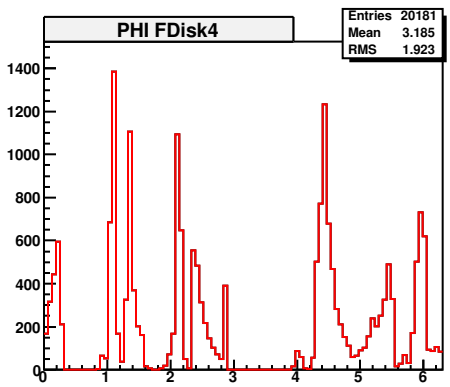



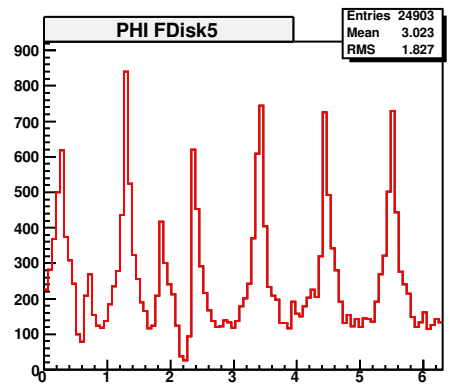

# SmtClusters (ClustrBar6)

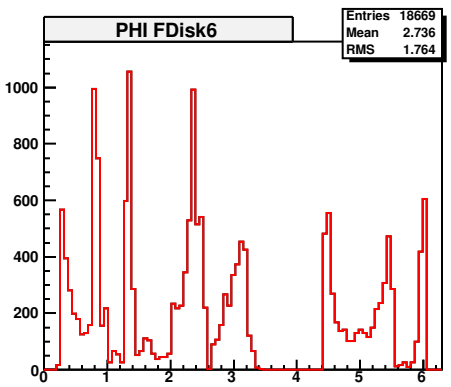


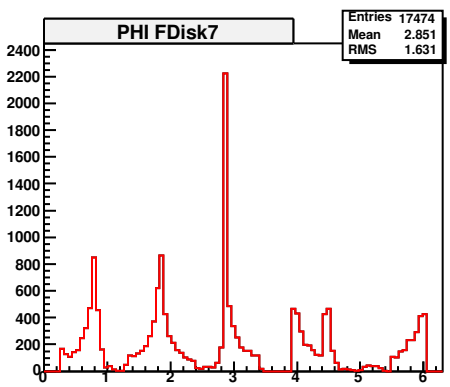



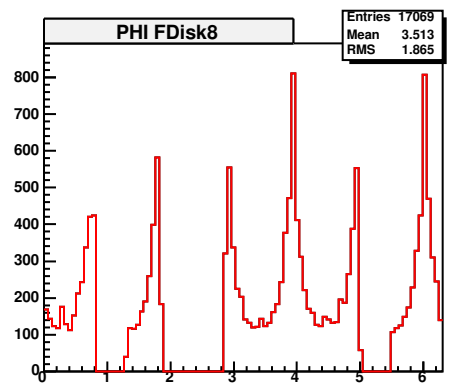



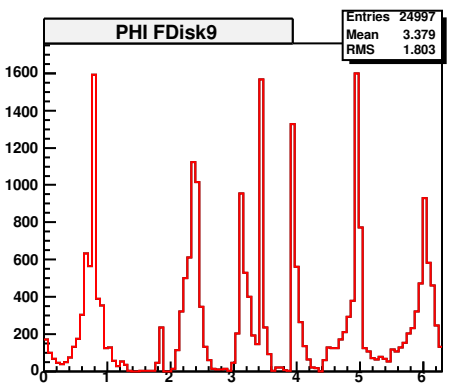



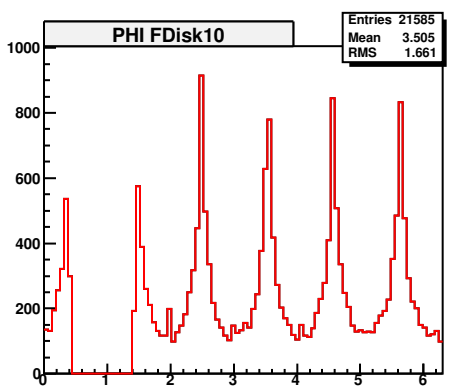



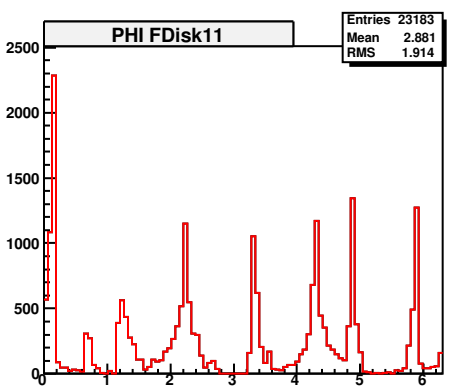



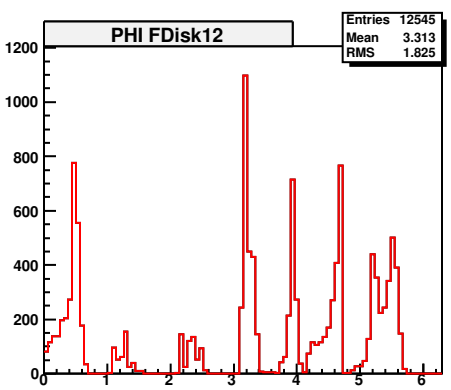



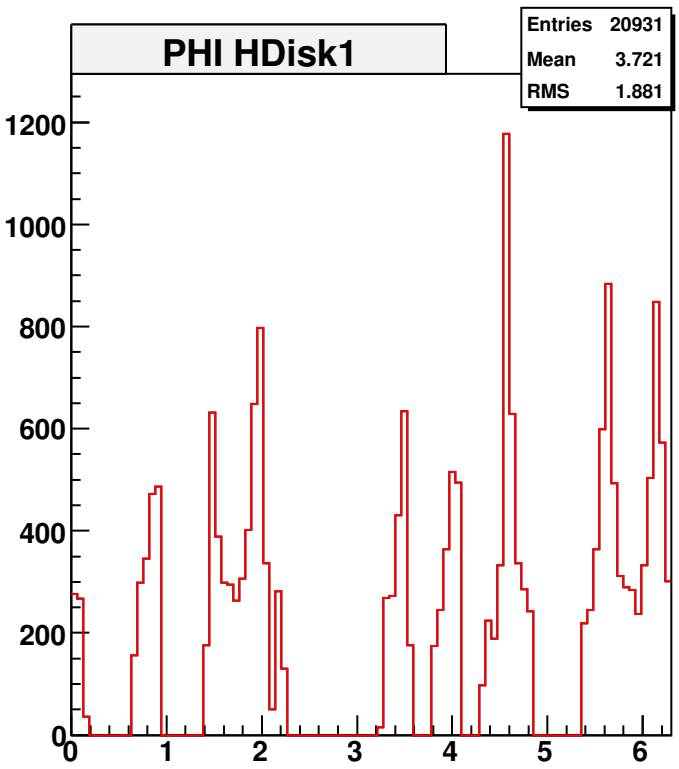



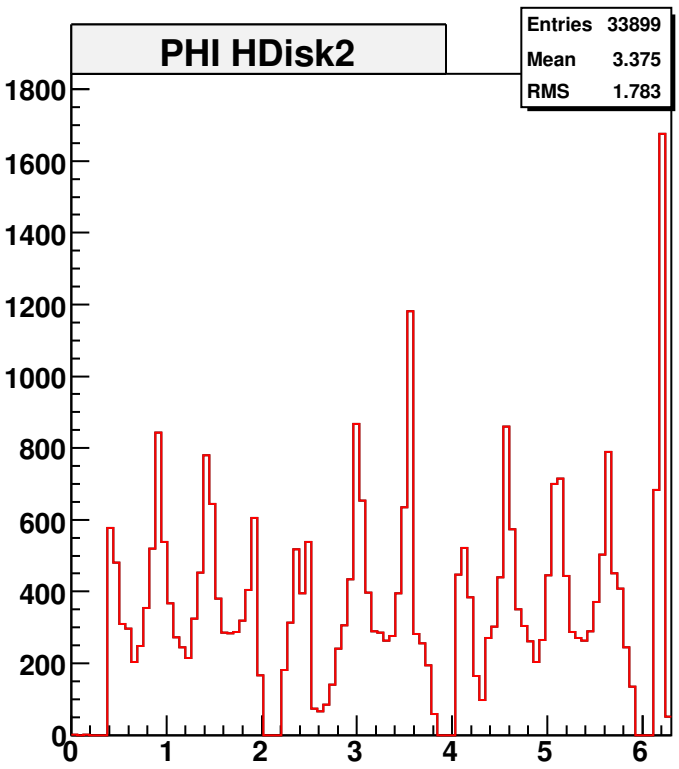



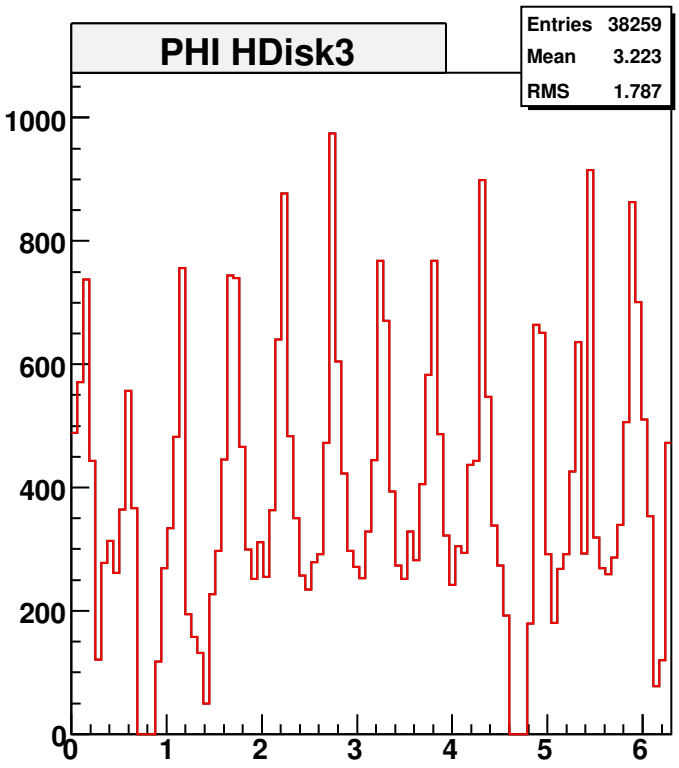



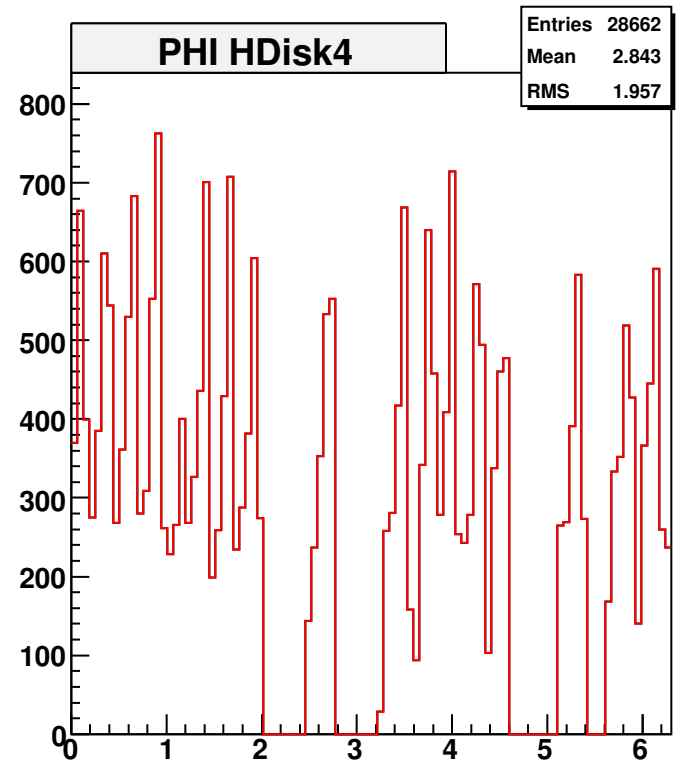




# SmtClusters (FDiskClusters)

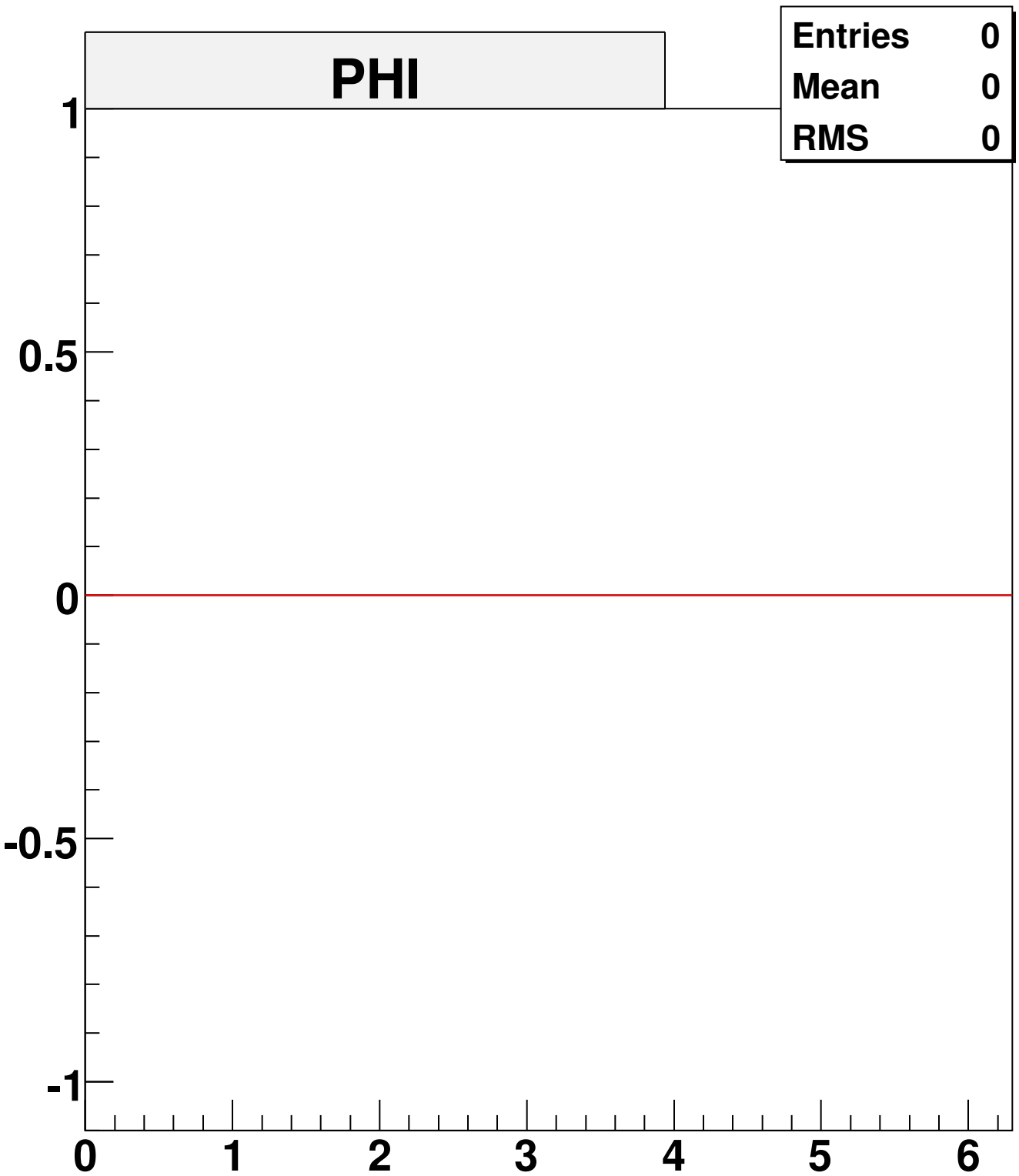


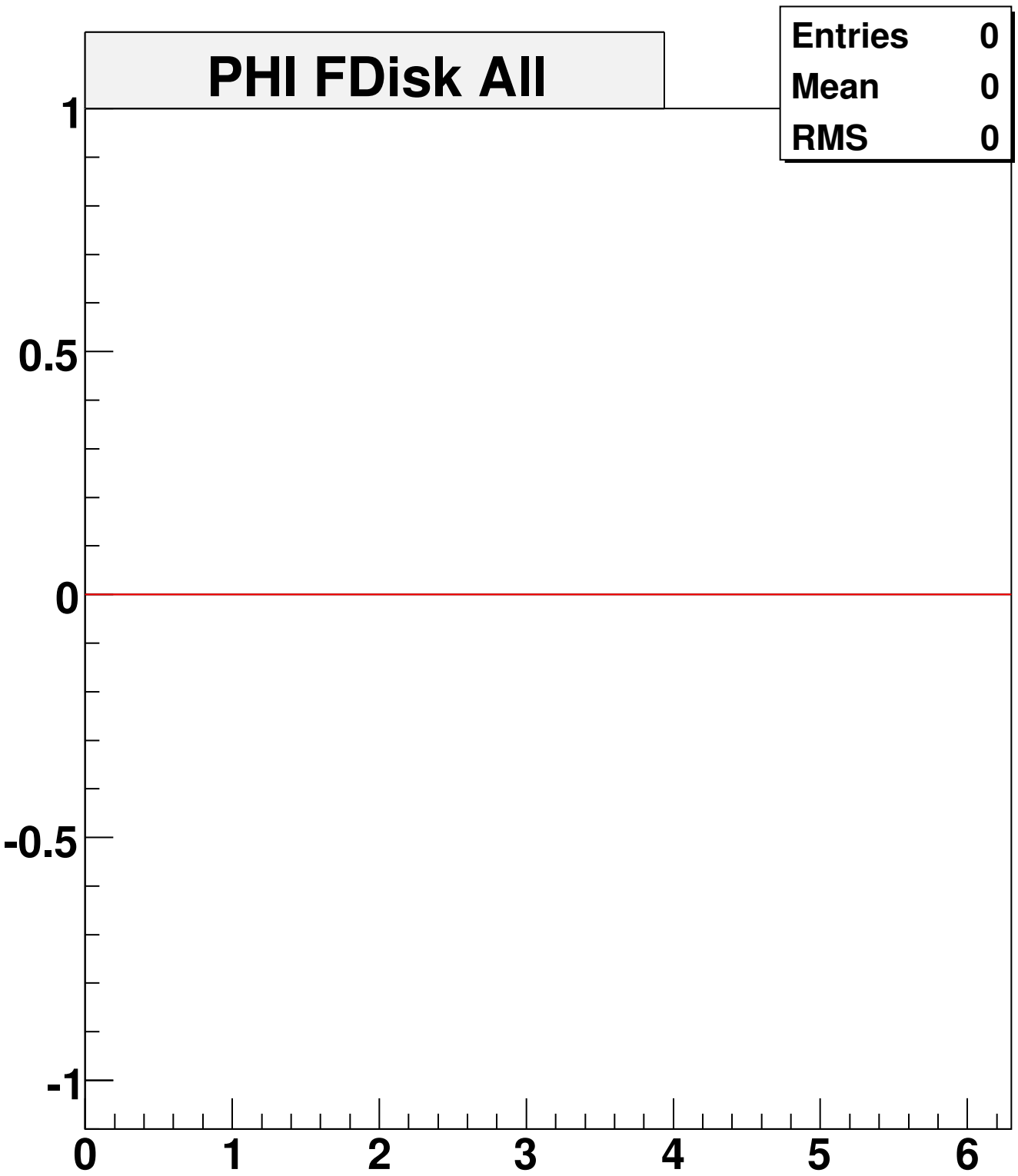




**SmtClusters (HDiskClusters)**


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


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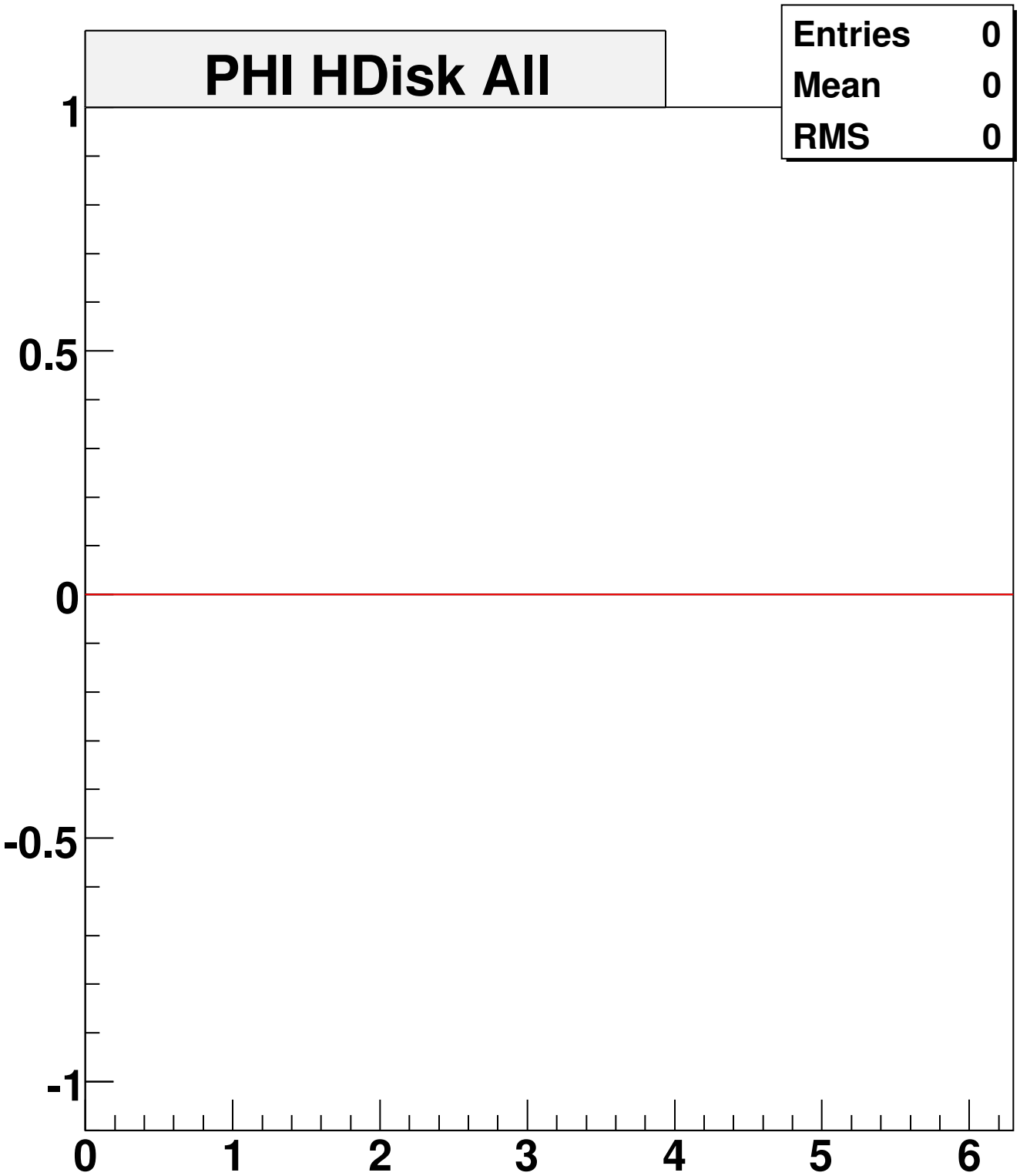
6
SmtClusters (allFDiskTClusters)


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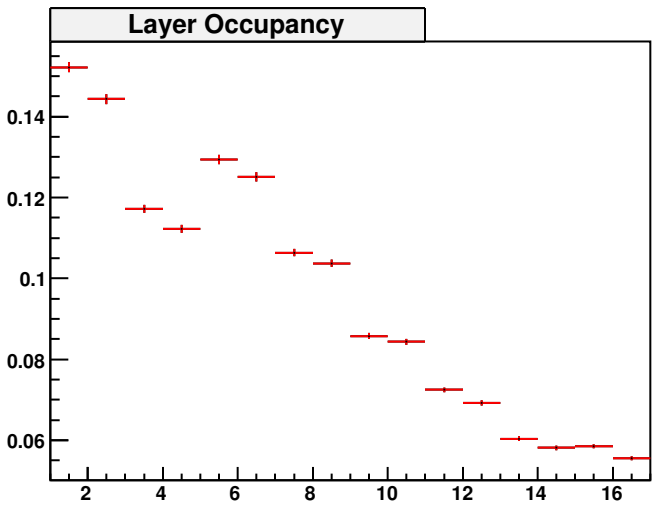
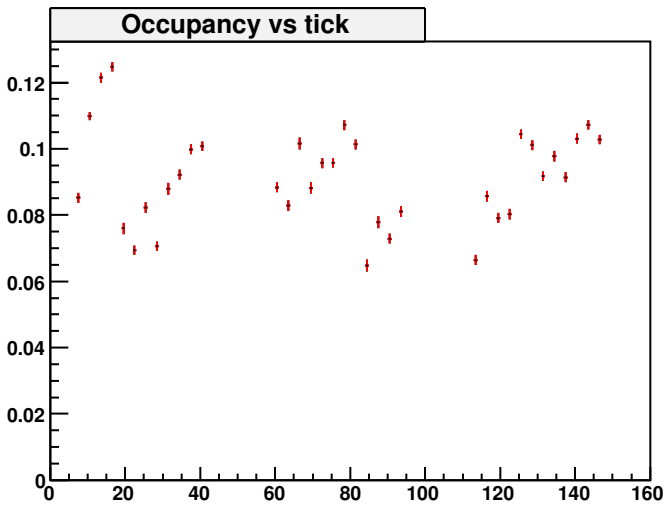
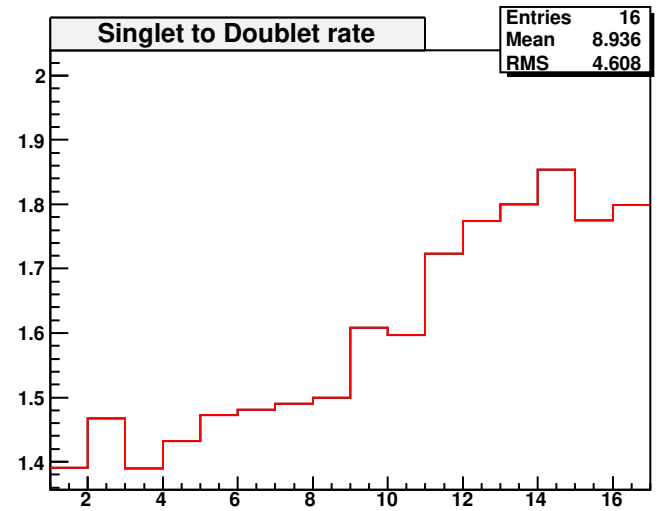
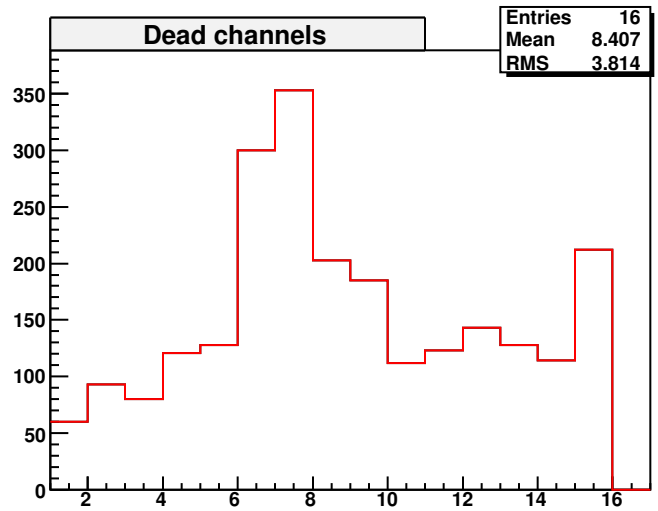
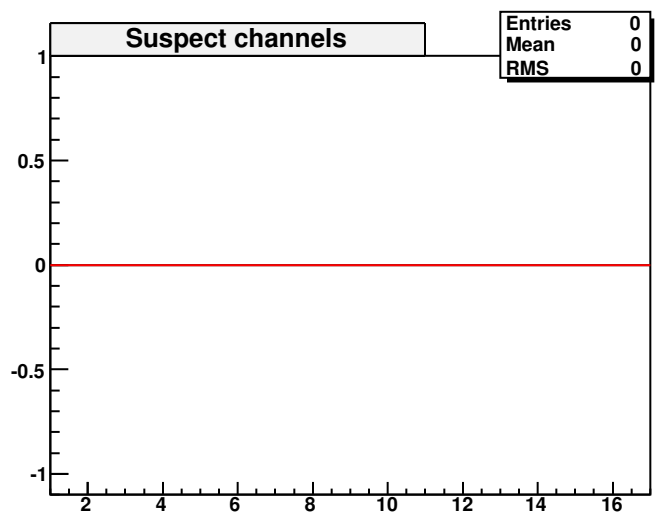
6
SmtClusters (allHDiskTClusters)

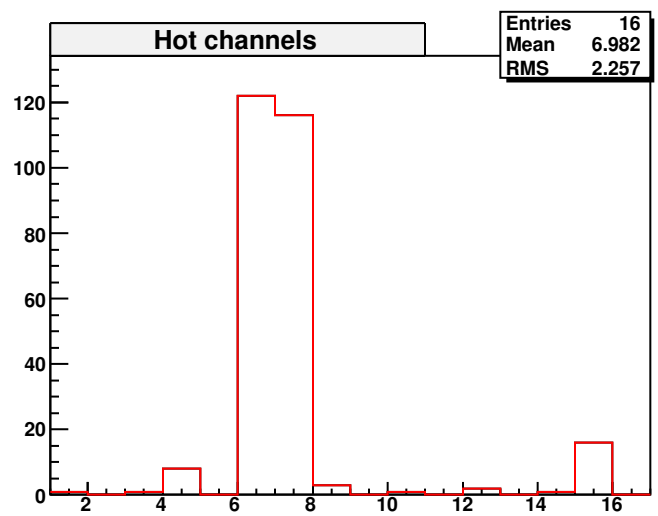


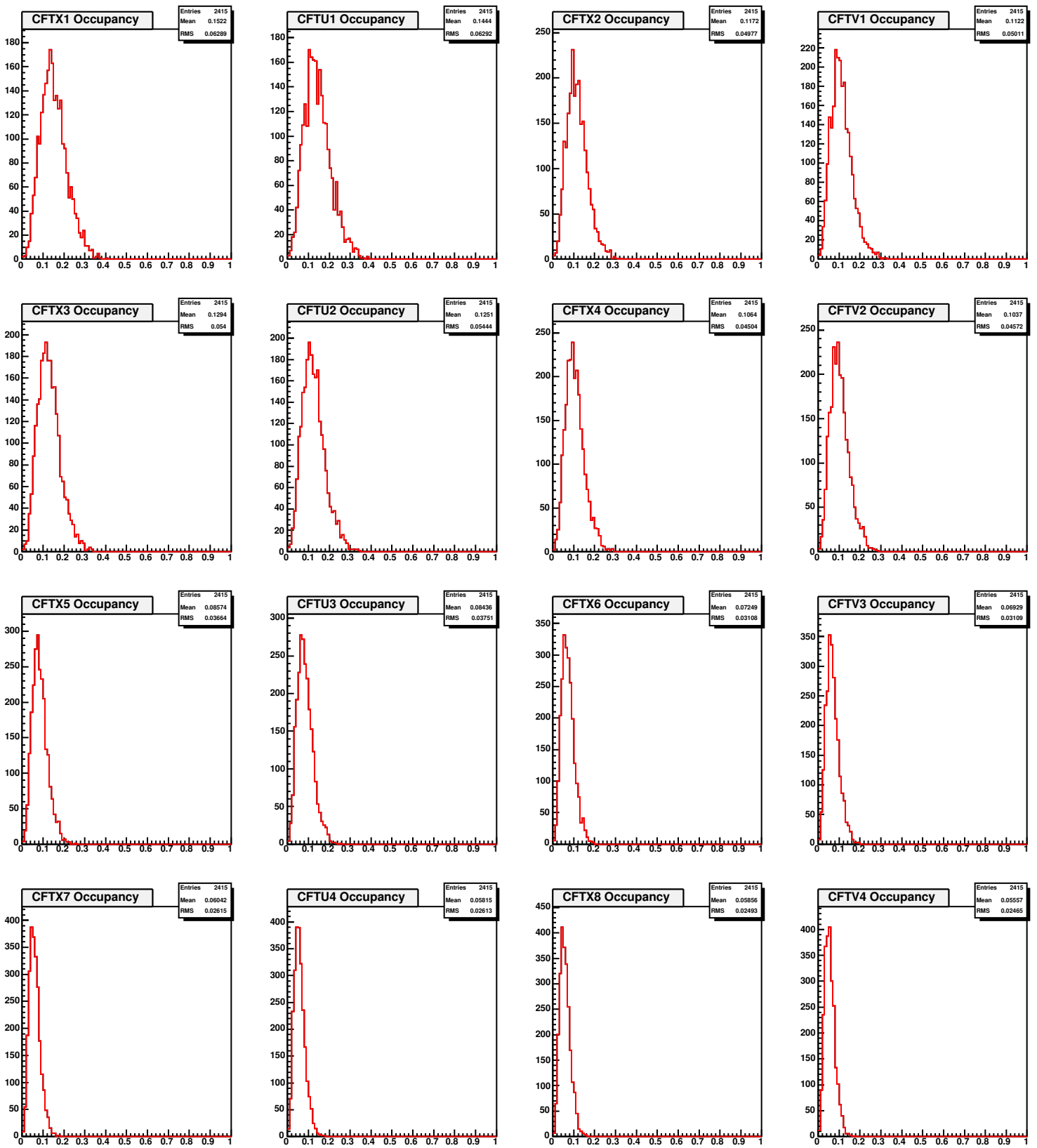



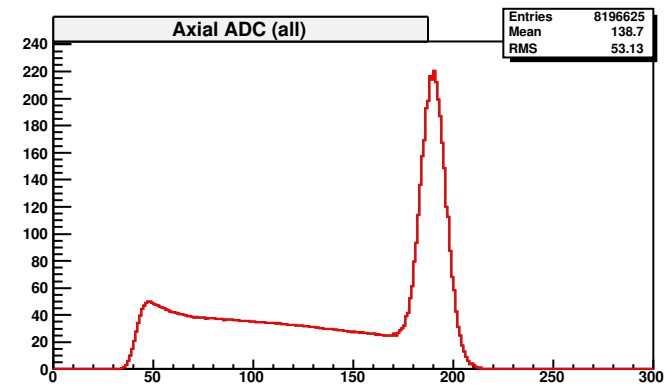



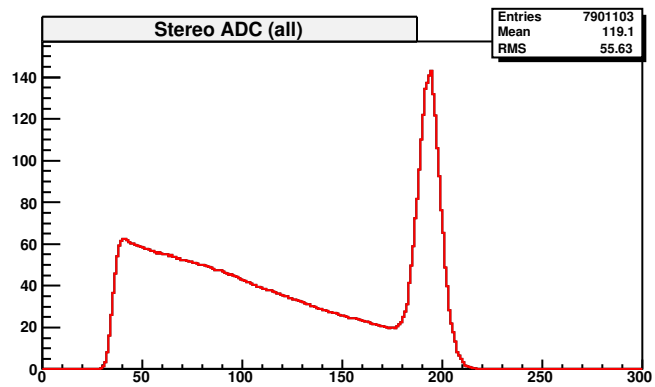



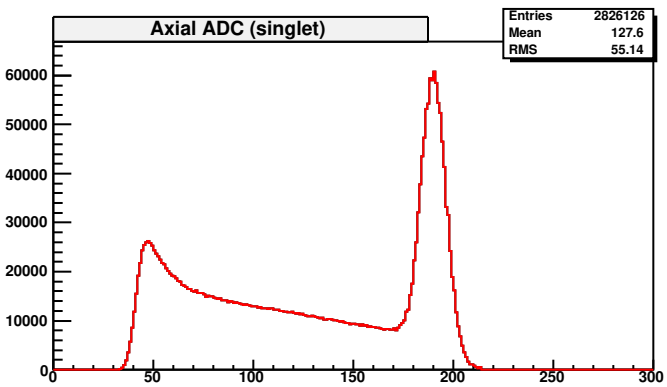

# CFT Summary (All Clusters)

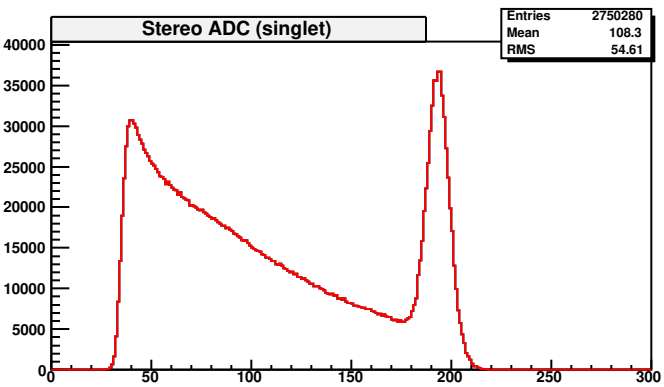


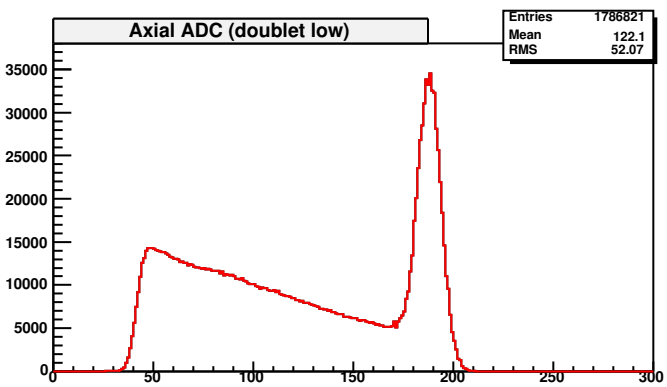

# CFT Occupancy (All Clusters)

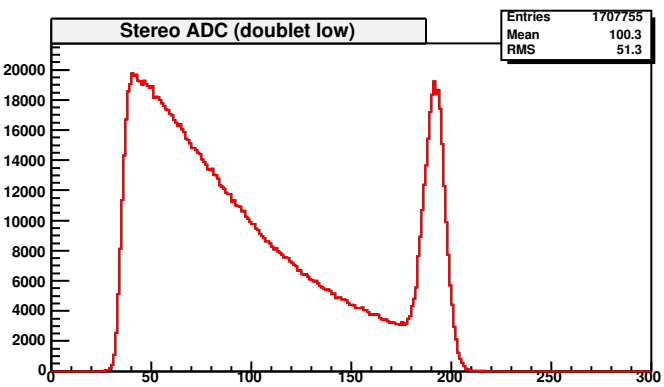


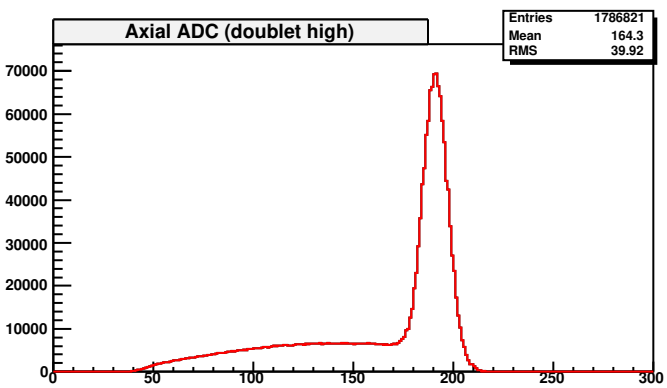



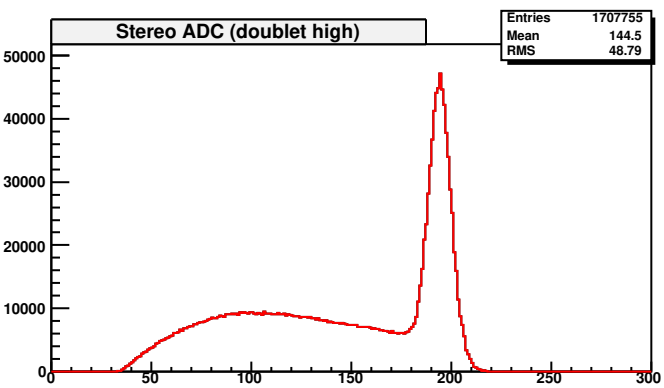



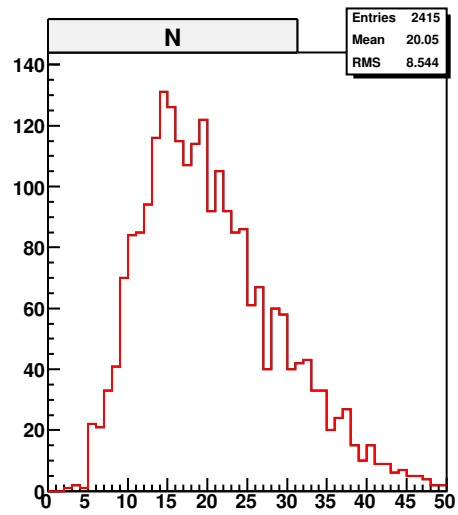



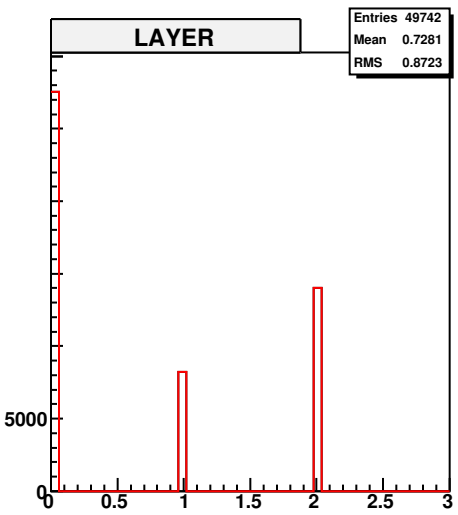



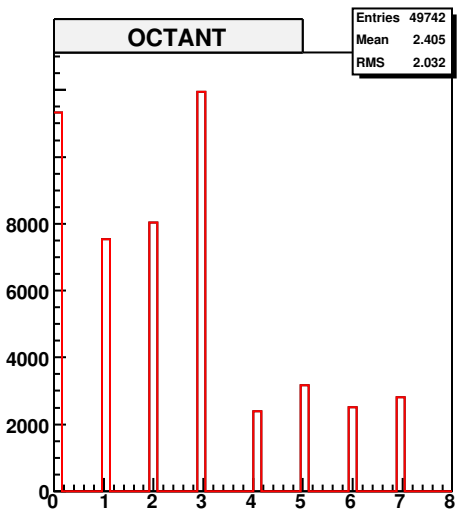



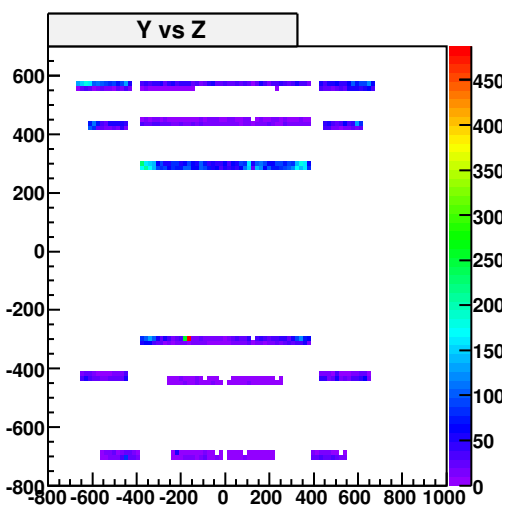



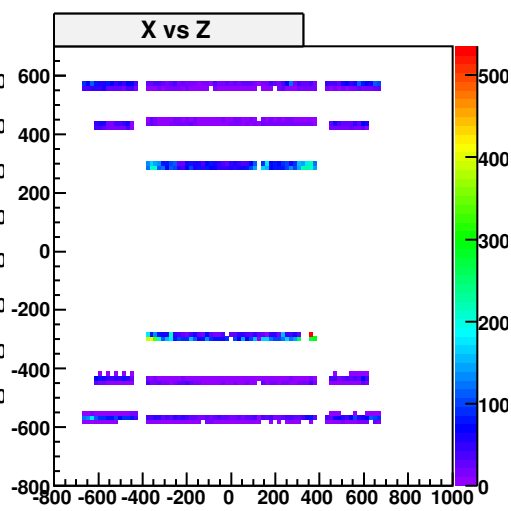

# CFT ADC Summary (All Clusters)

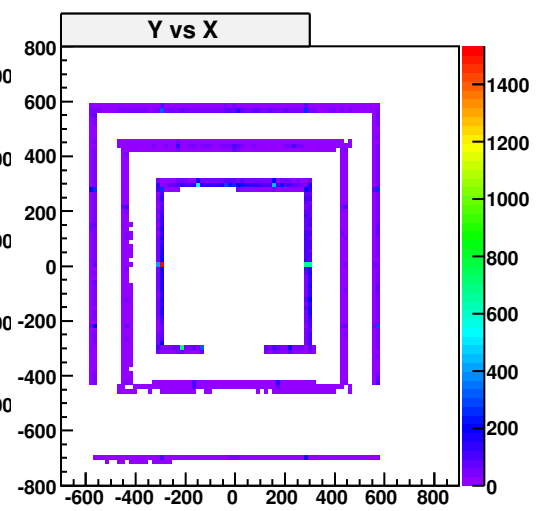

N
Entries 2415
Mean 20.05
RMS 8.544

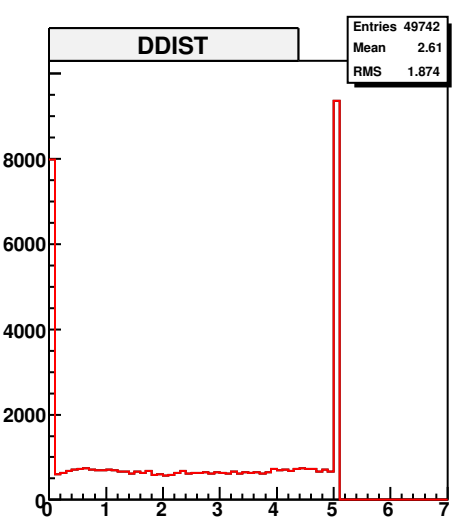

LAYER
Entries 49742
Mean 0.7281
RMS 0.8723

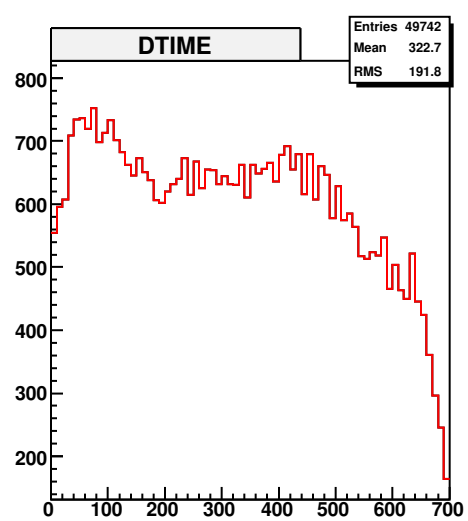

OCTANT
Entries 49742
Mean 2.405
RMS 2.032


Y vs Z

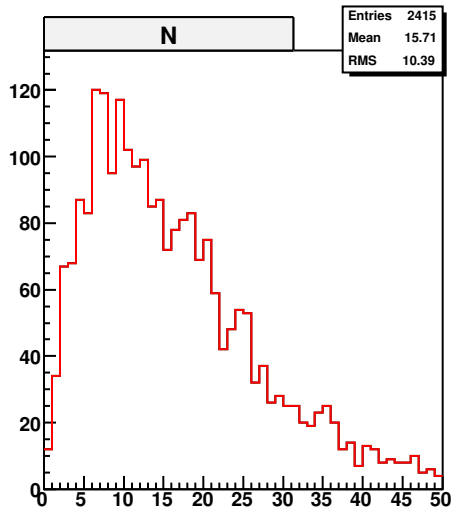

X vs Z

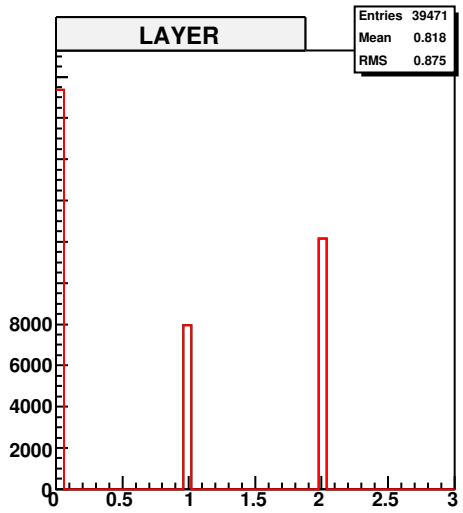

Y vs X

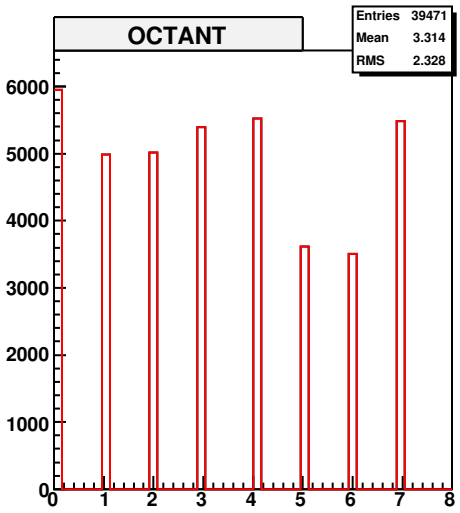

DDIST
Entries 49742
Mean 2.61
RMS 1.874

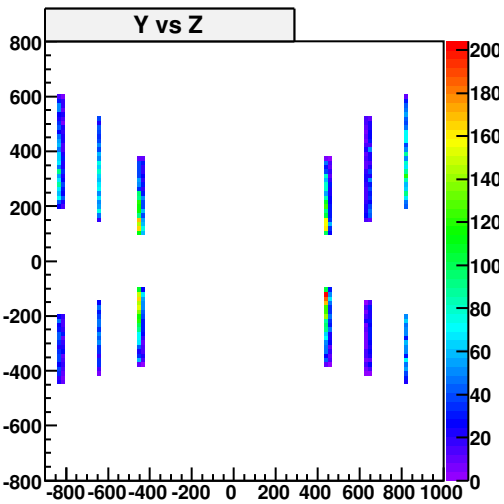

DTIME
Entries 49742
Mean 322.7
RMS 191.8

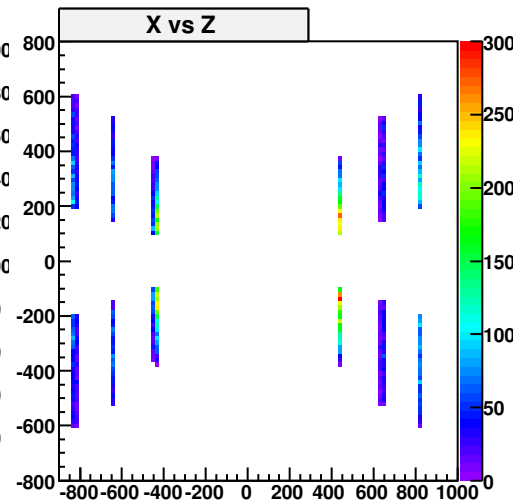
# MuonPDT (All)

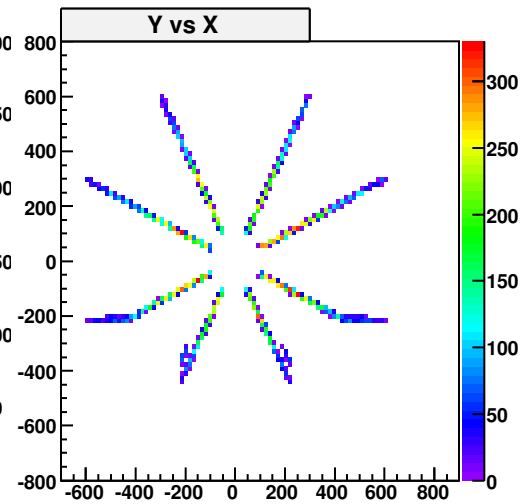

N
Entries 2415
Mean 15.71
RMS 10.39

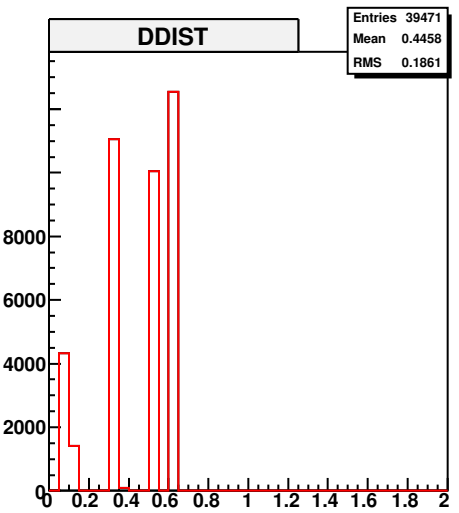

LAYER
Entries 39471
Mean 0.818
RMS 0.875

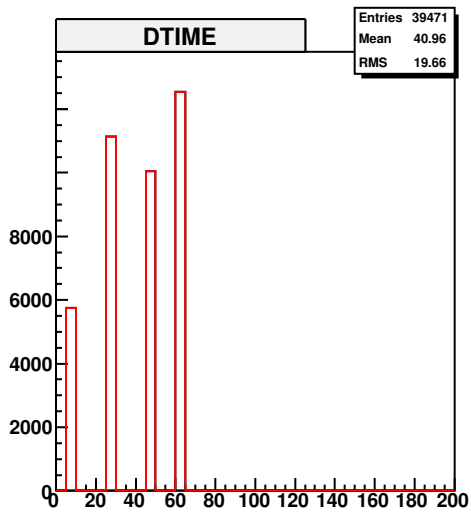

OCTANT
Entries 39471
Mean 3.314
RMS 2.328


Y vs Z

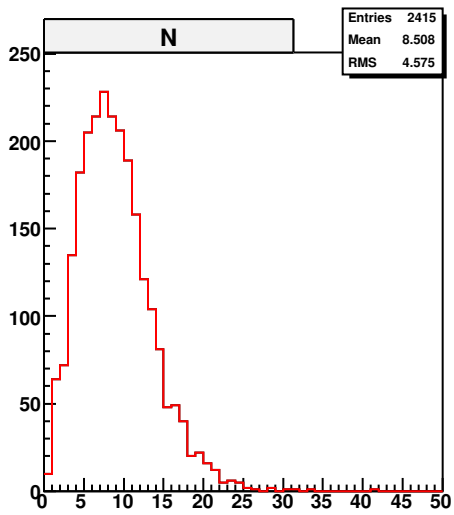

X vs Z

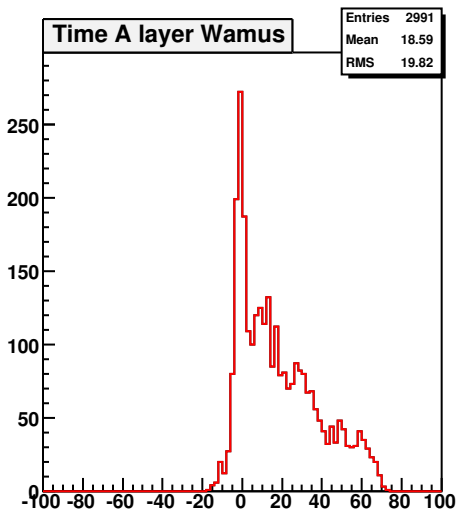

Y vs X

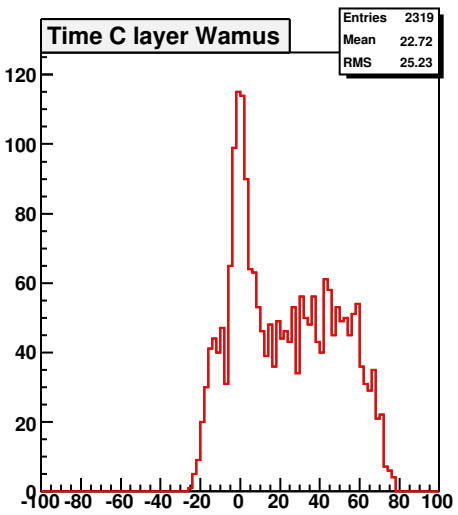

DDIST
Entries 39471
Mean 0.4458
RMS 0.1861

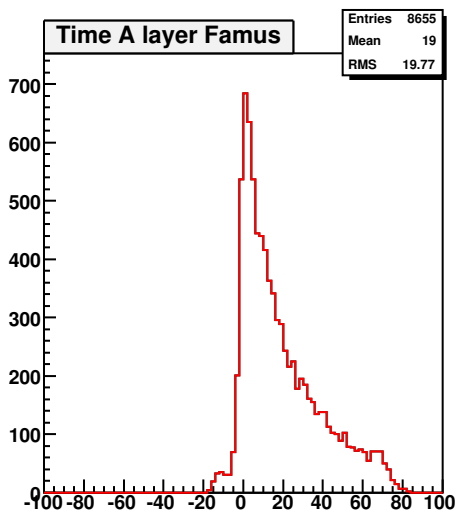

DTIME
Entries 39471
Mean 40.96
RMS 19.66

# MuonMDT (All)


N
Entries 2415
Mean 8.508
RMS 4.575


Time A layer Wamus
Entries 2991
Mean 18.59
RMS 19.82


Time C layer Wamus
Entries 2319
Mean 22.72
RMS 25.23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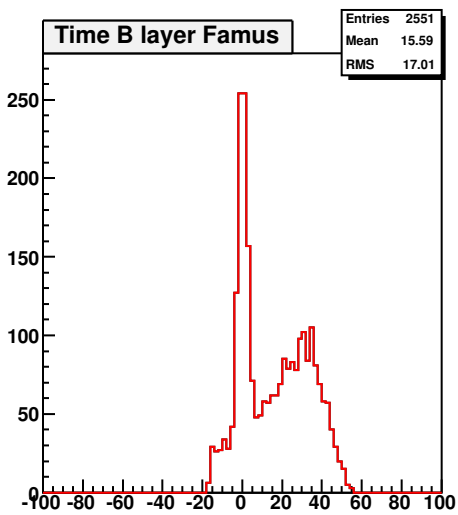
Mean 19
RMS 19.77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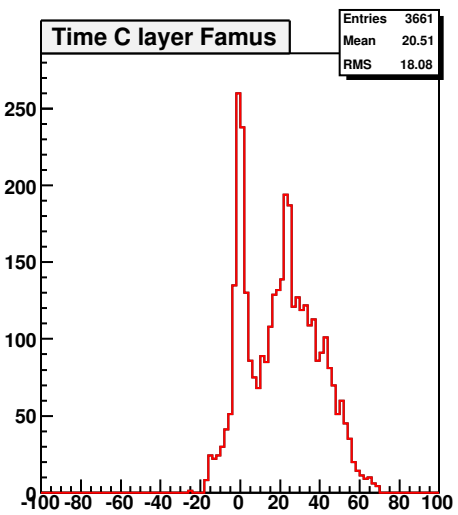
RMS 17.01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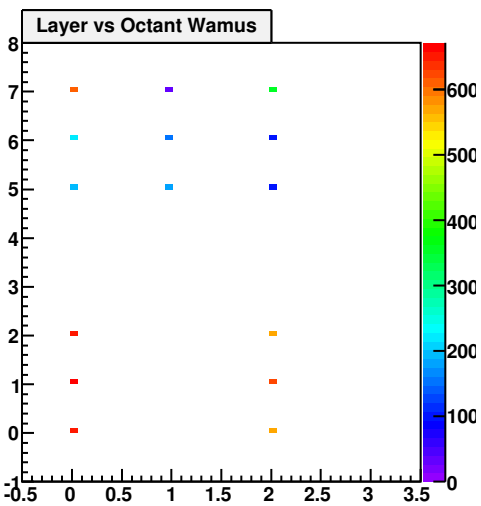
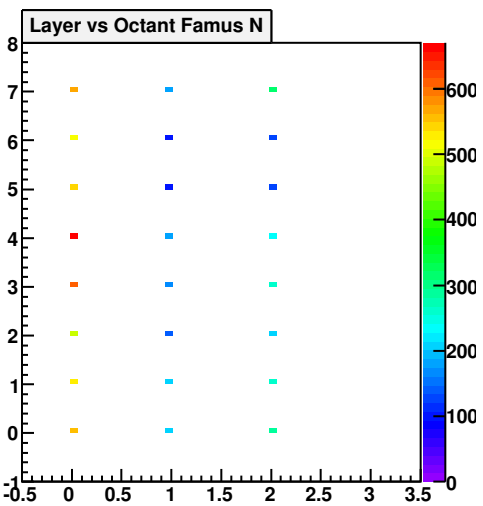
Mean 20.51
RMS 18.08


Layer vs Octant Wamus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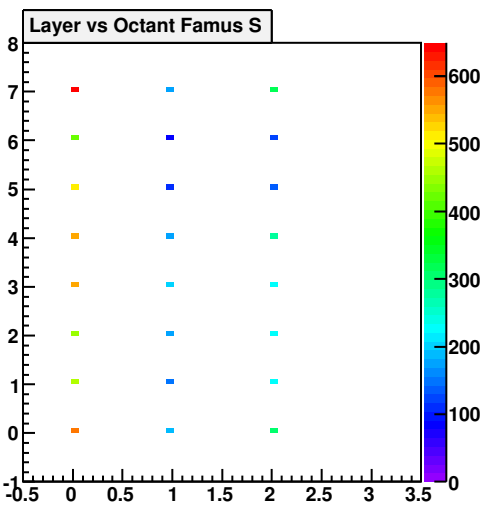
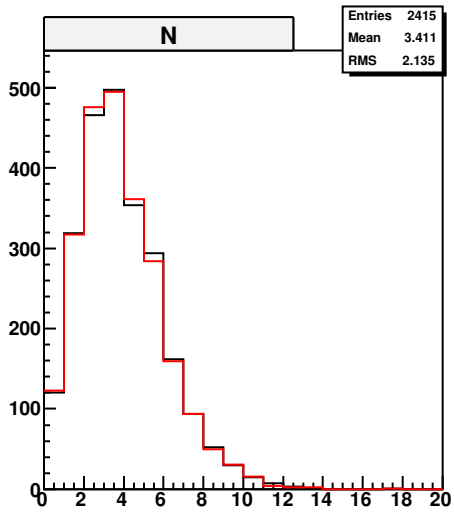
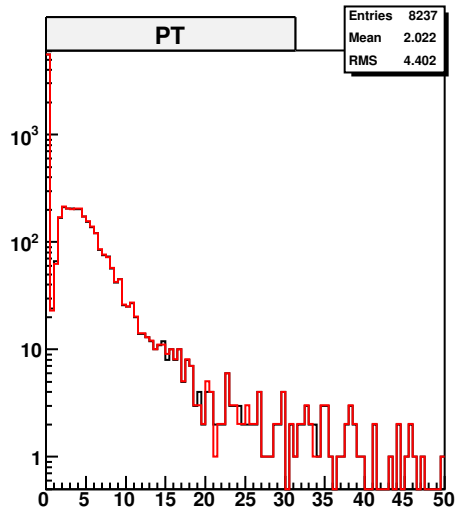
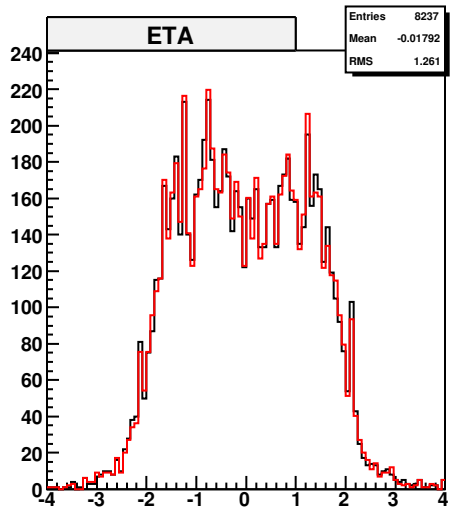
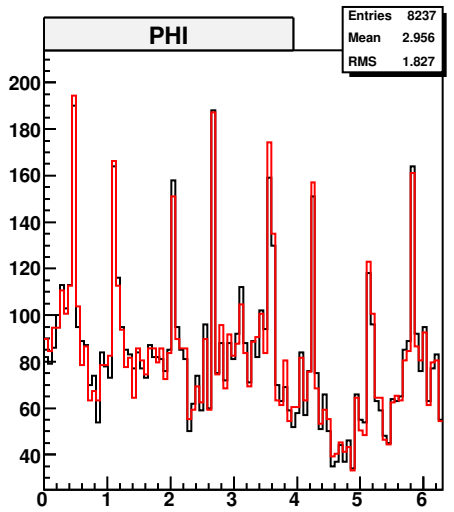

Layer vs Octant Famus S

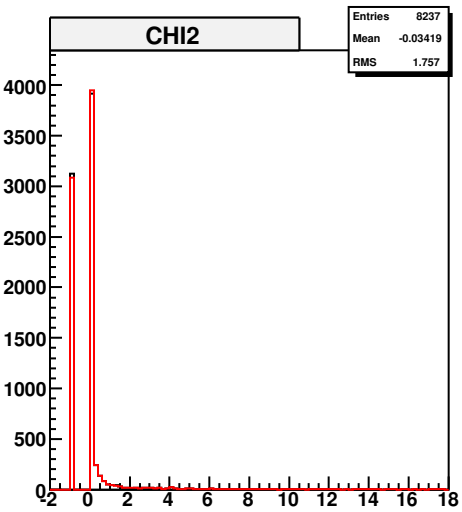
# MuonMSC (All)

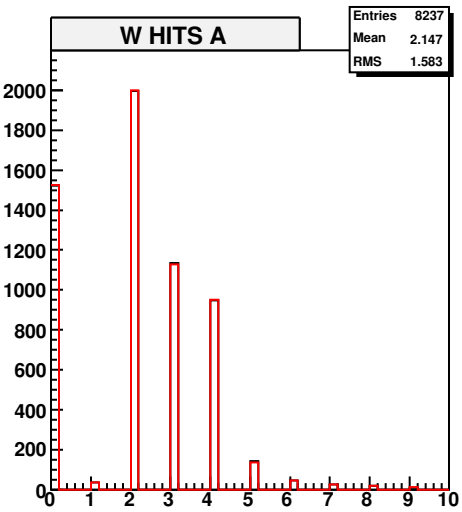


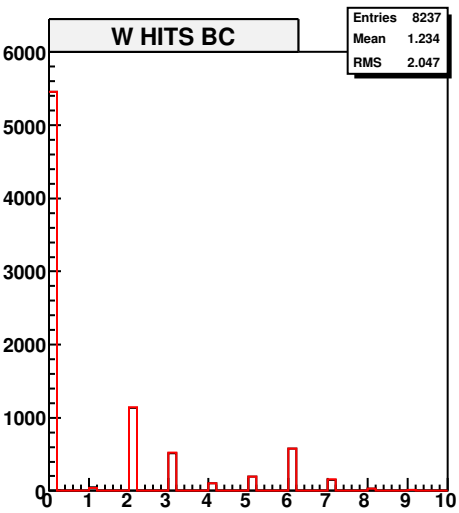



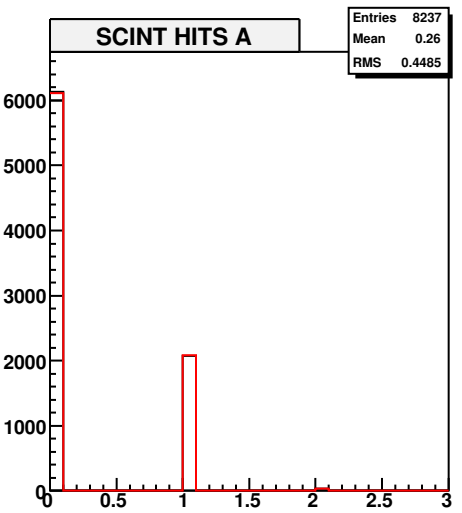



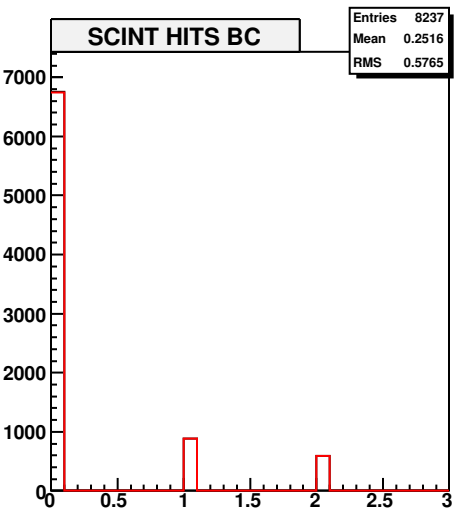



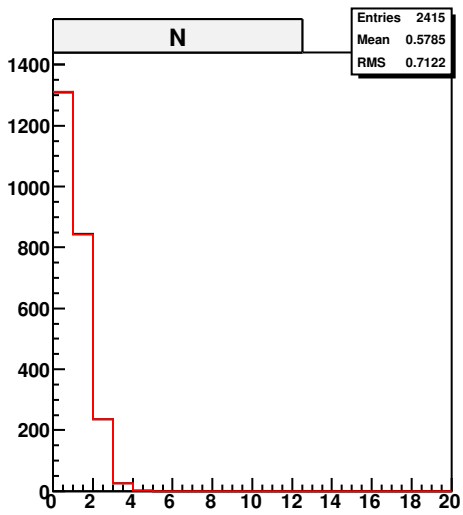



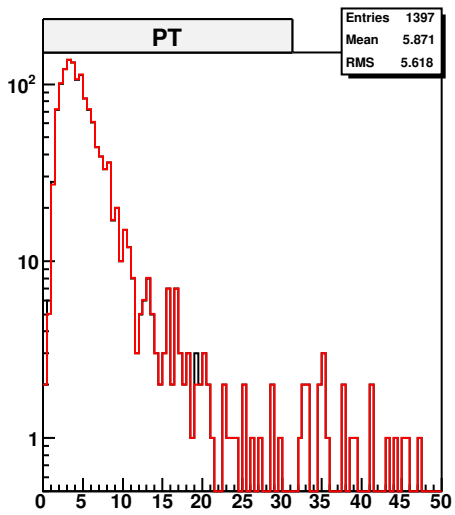



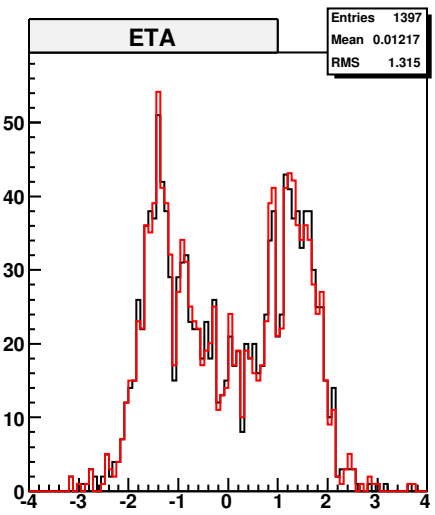



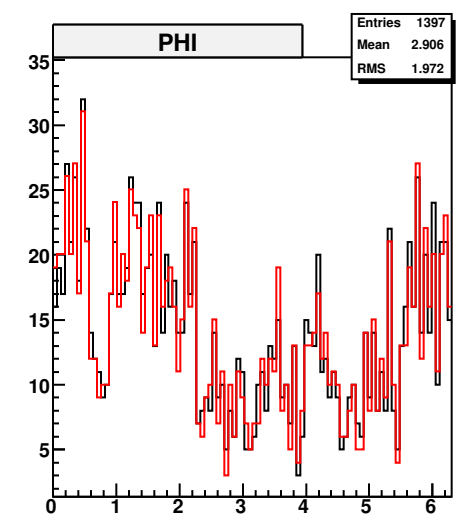



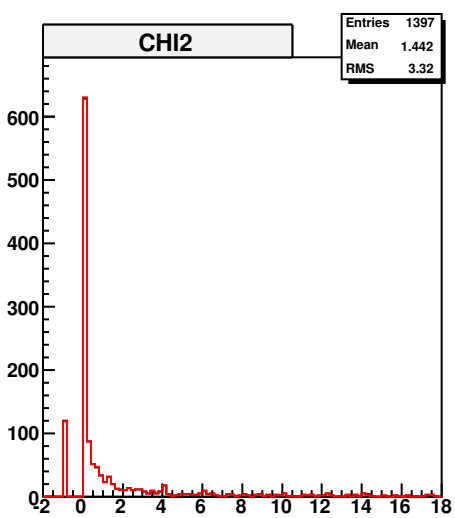

# Muon Local Tracks (All)

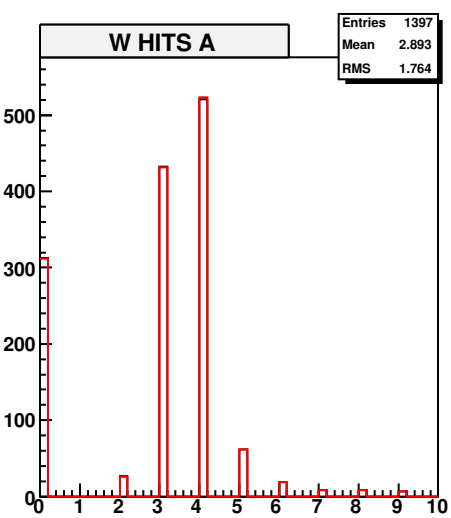


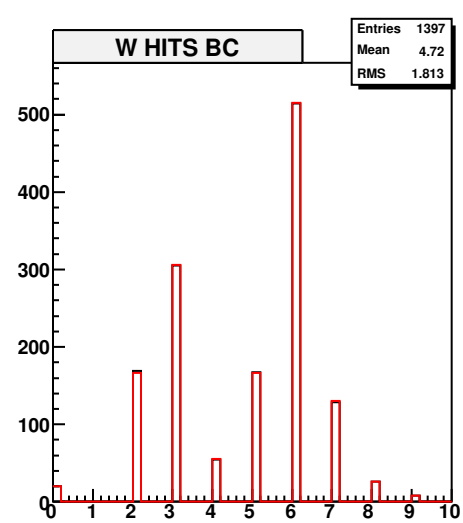



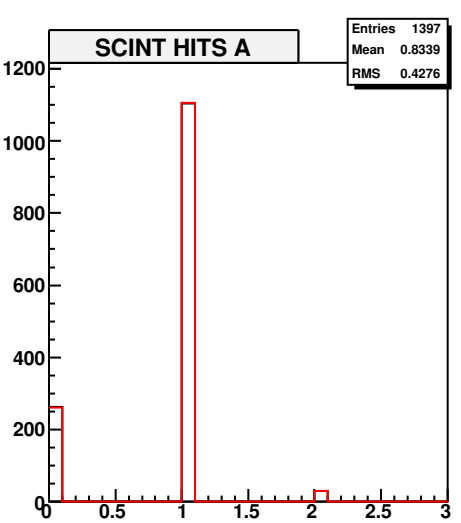



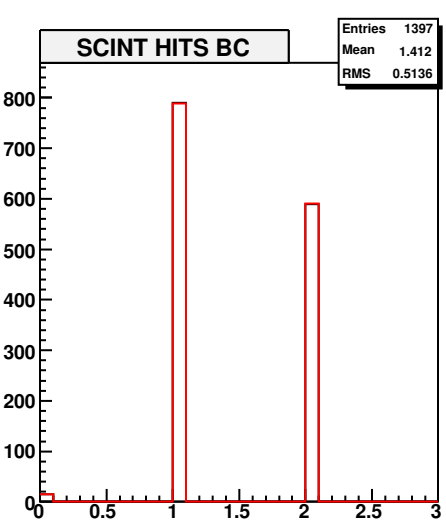



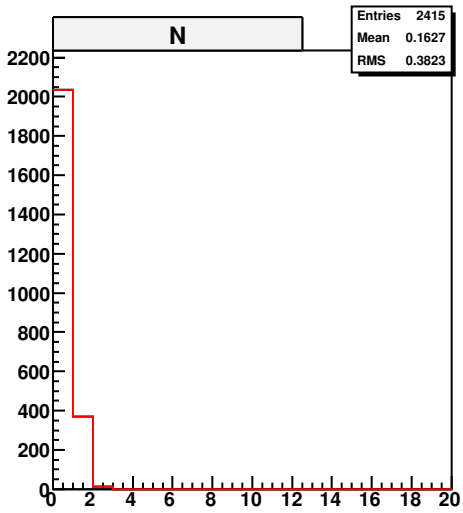



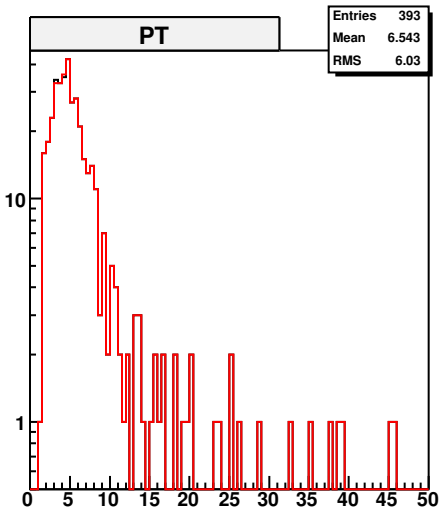



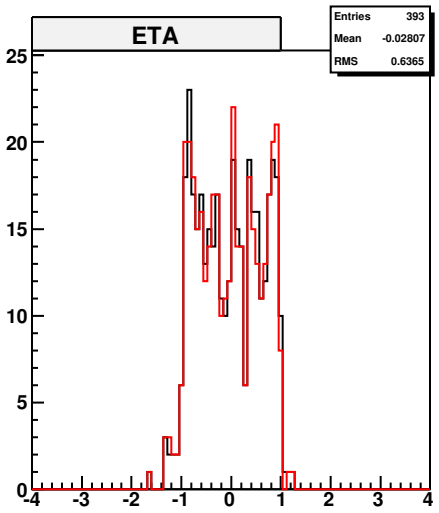



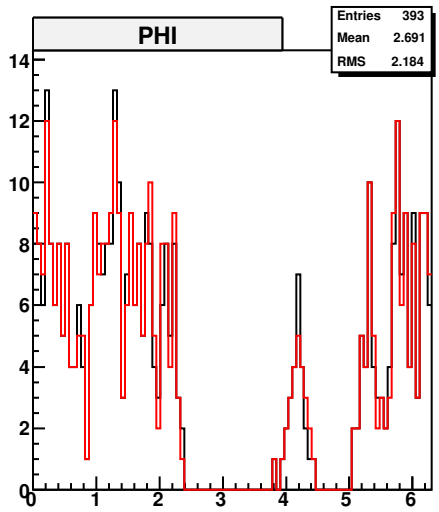



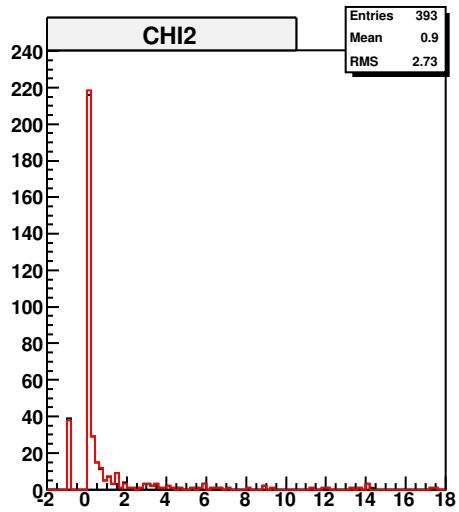

# Muon Local Tracks (LooseWamus)

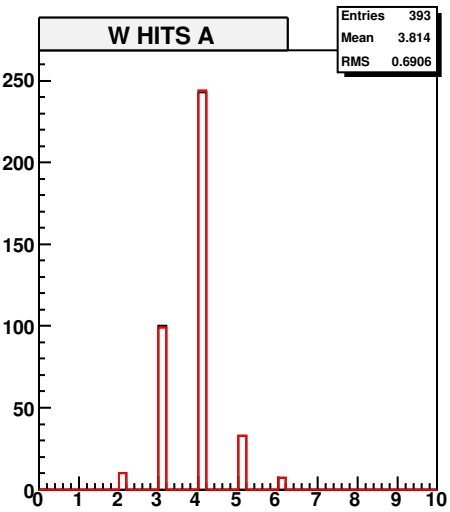


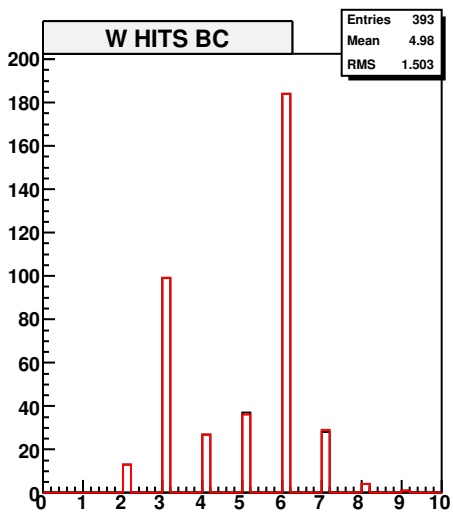



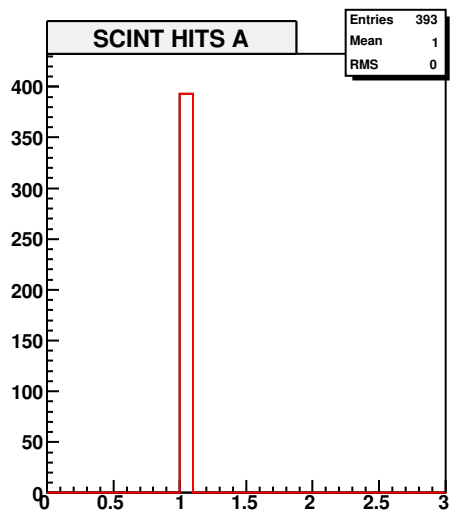



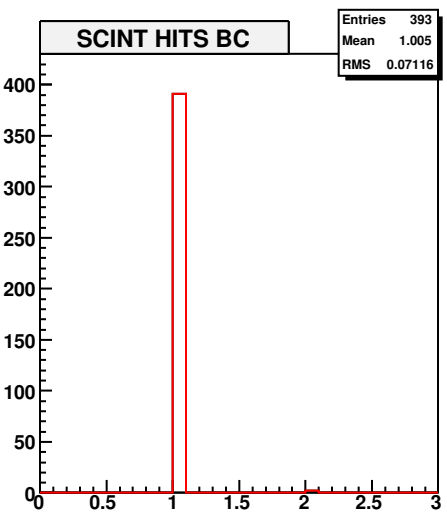



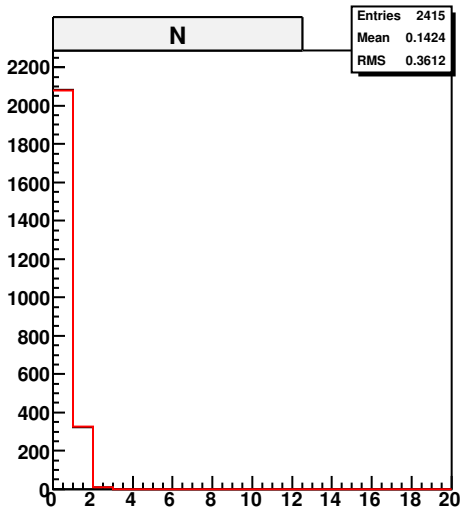



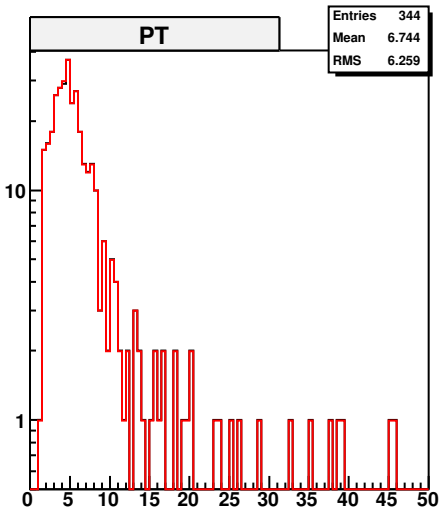



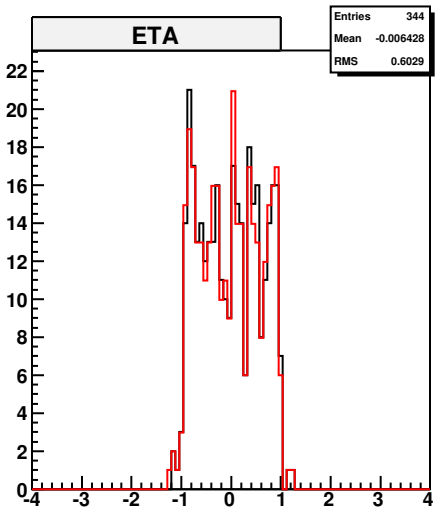



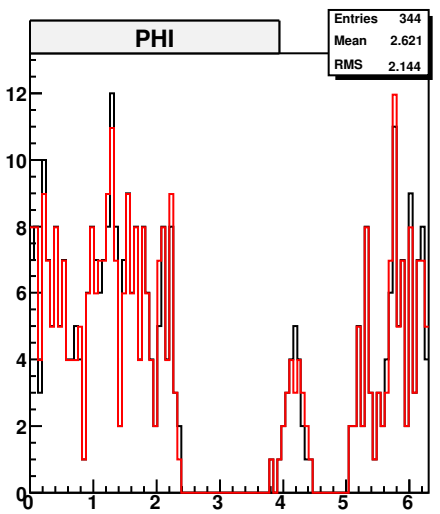



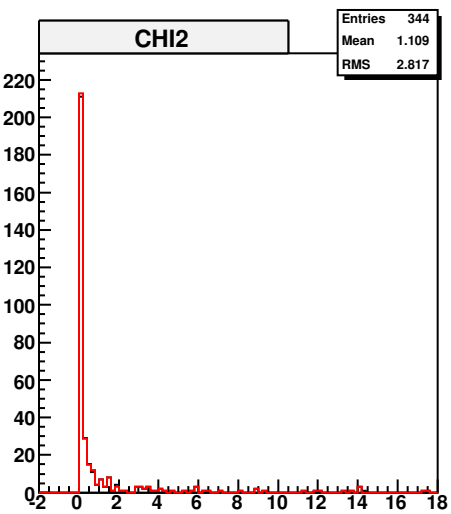

# Muon Local Tracks (MediumWamus)

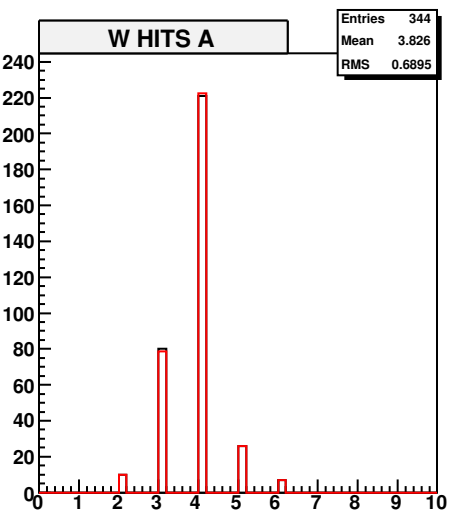


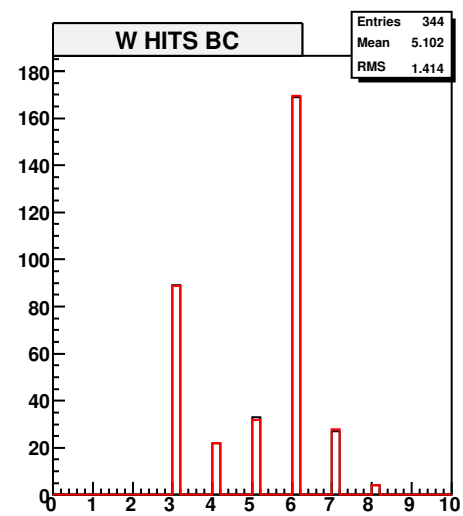



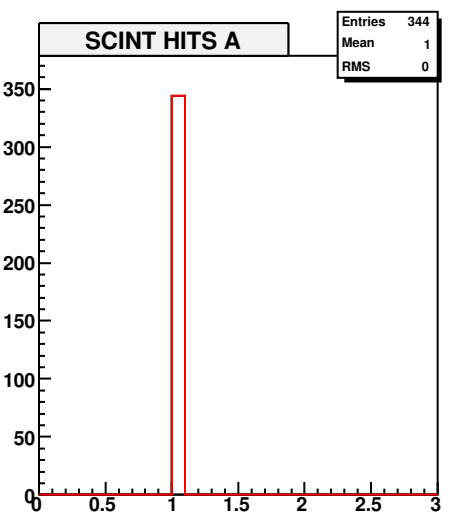



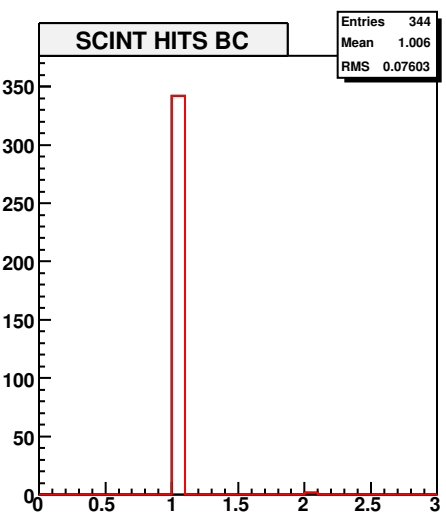



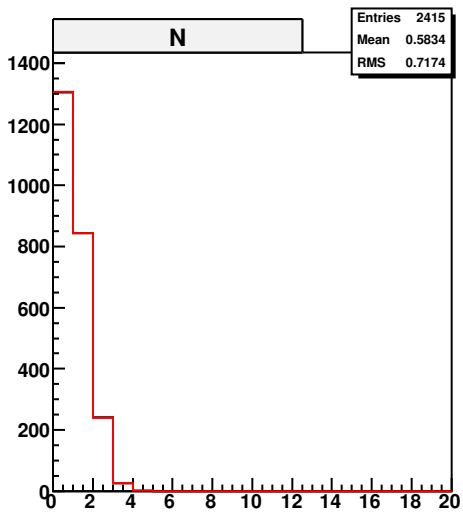



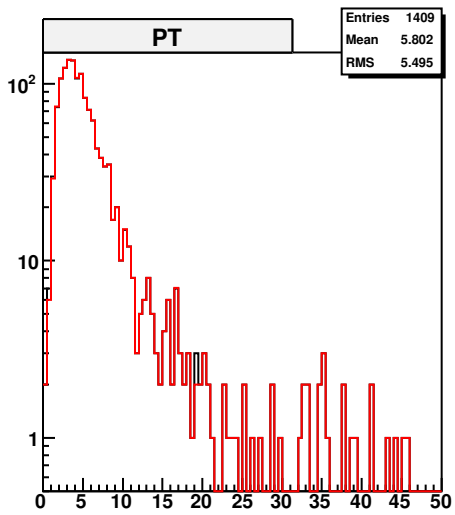



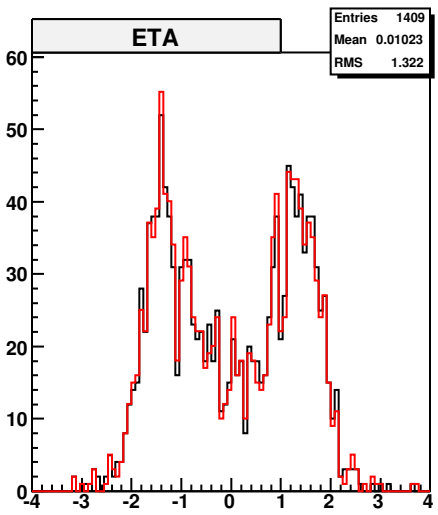



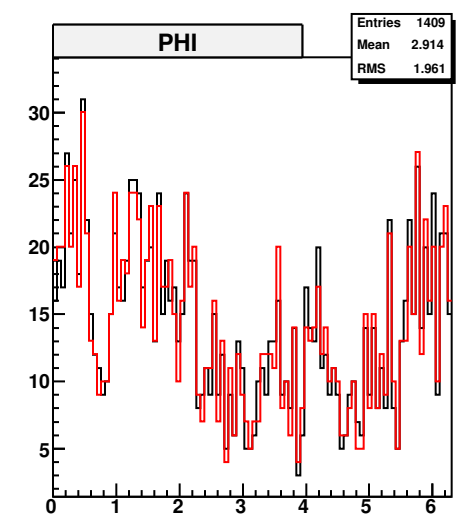



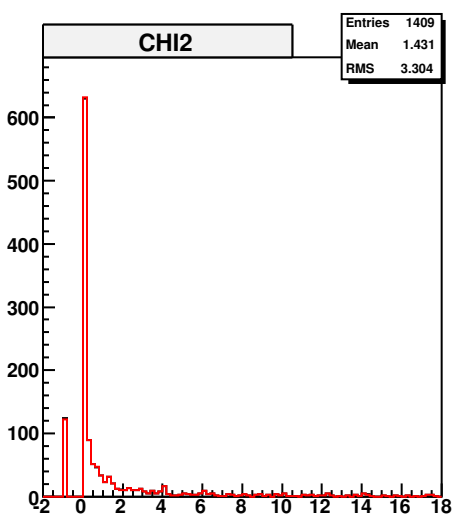

# Muon Local Tracks (TightWamus)

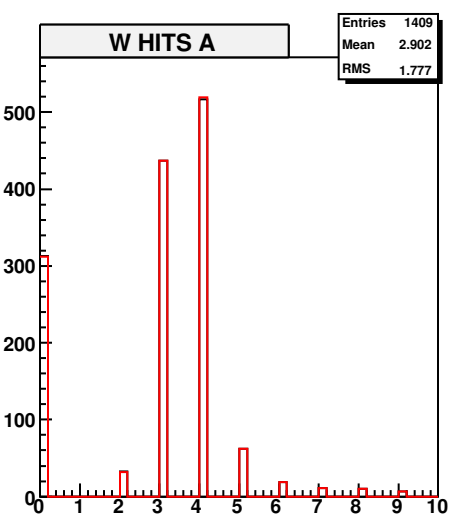


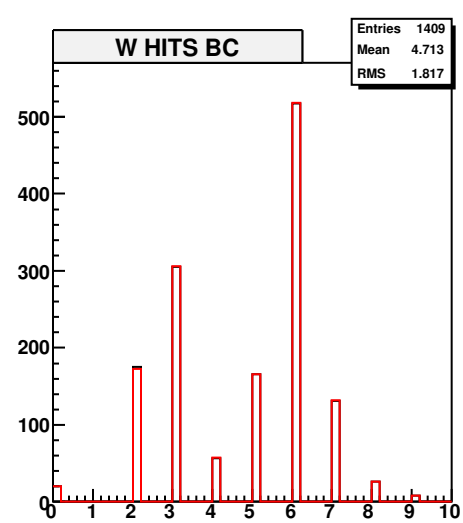



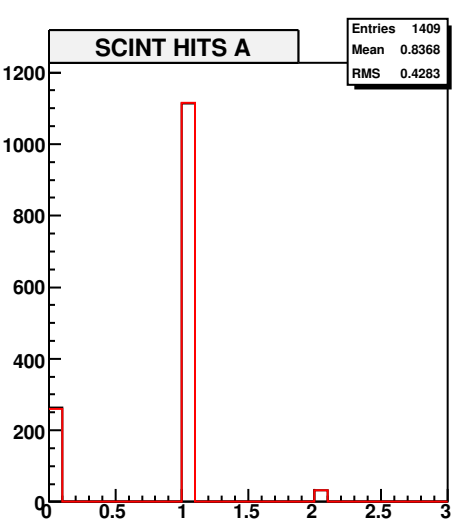



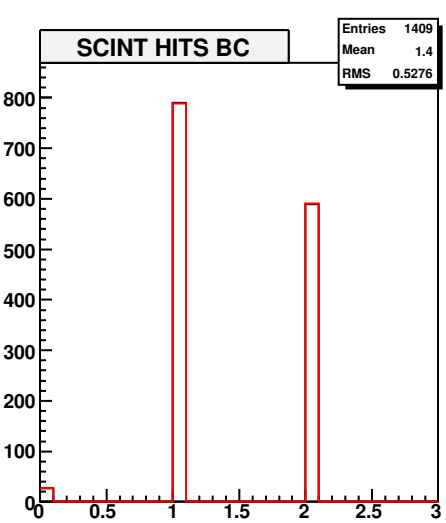



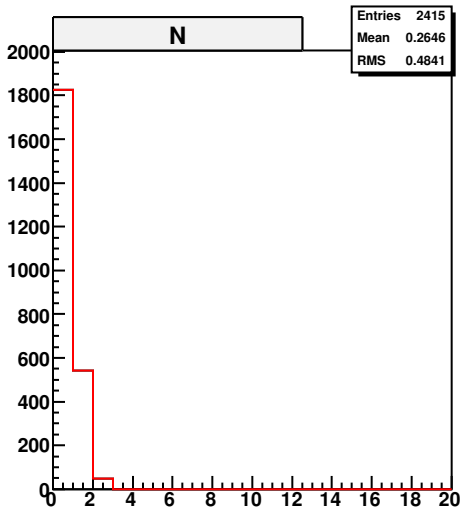



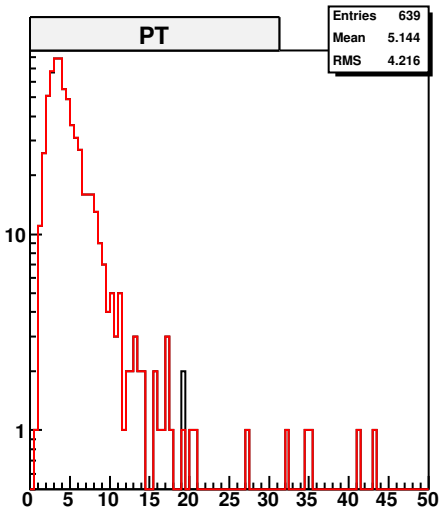



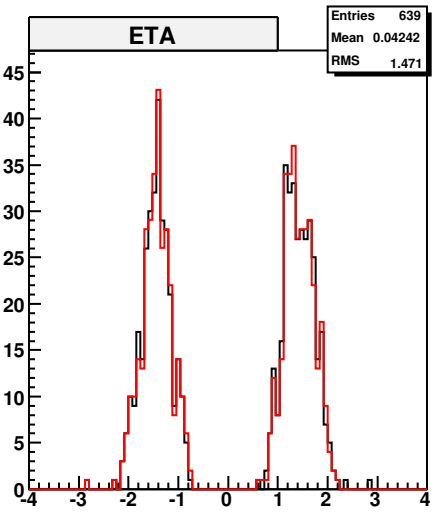



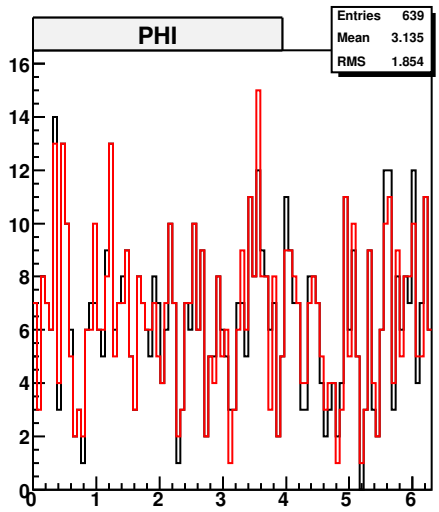



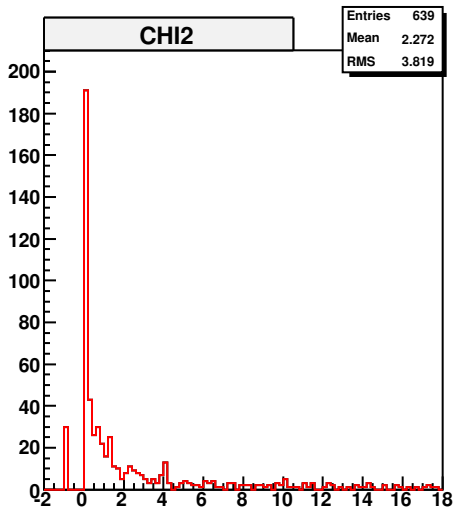

# Muon Local Tracks (LooseFamus)

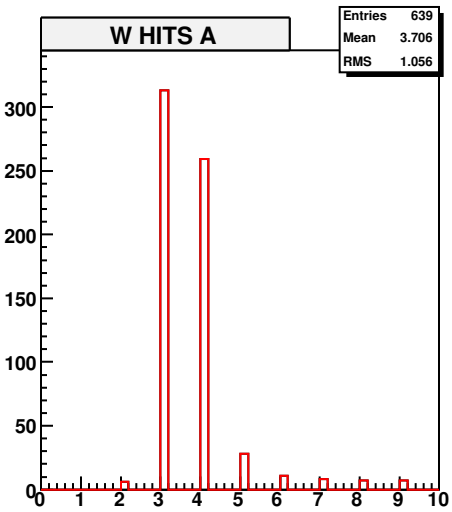


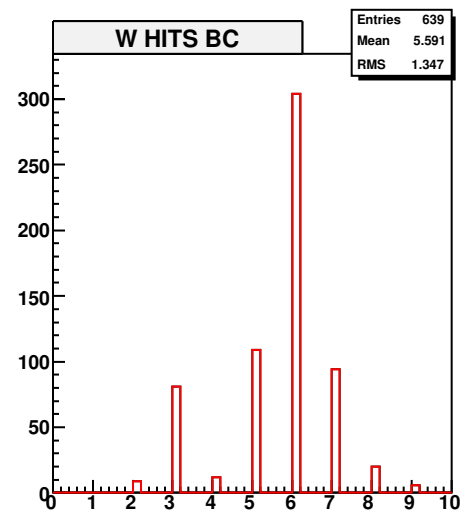



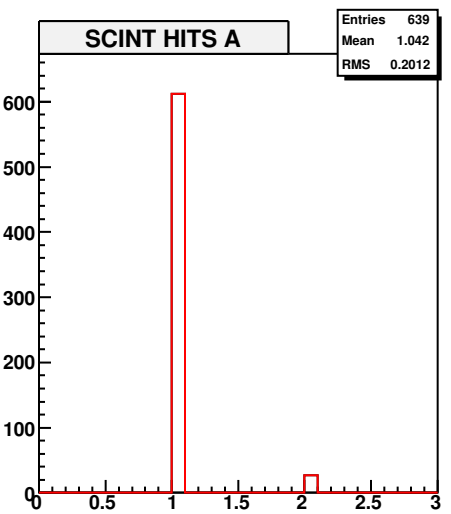



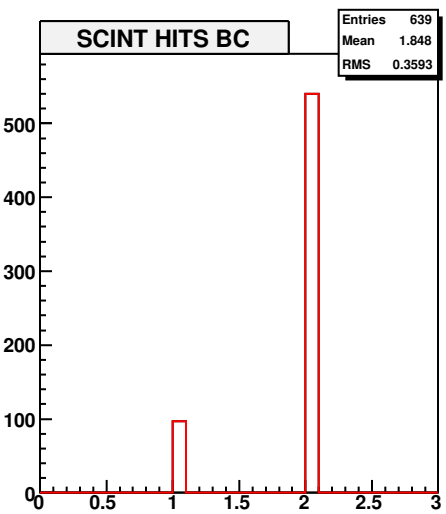



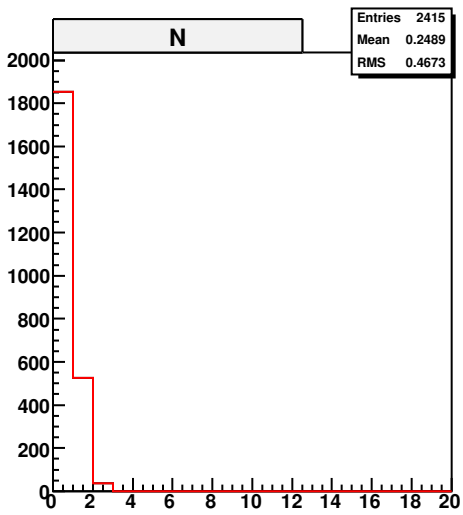



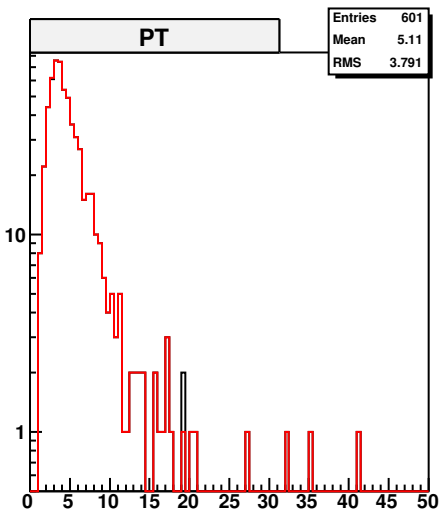



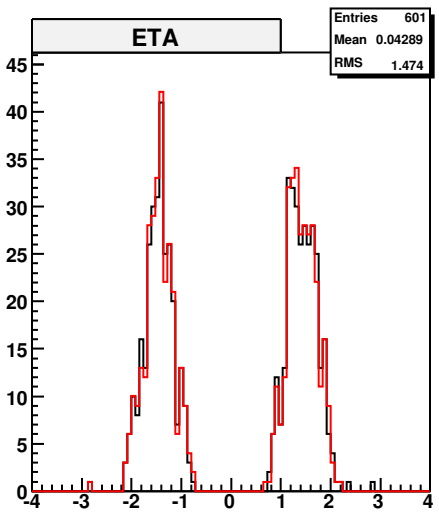



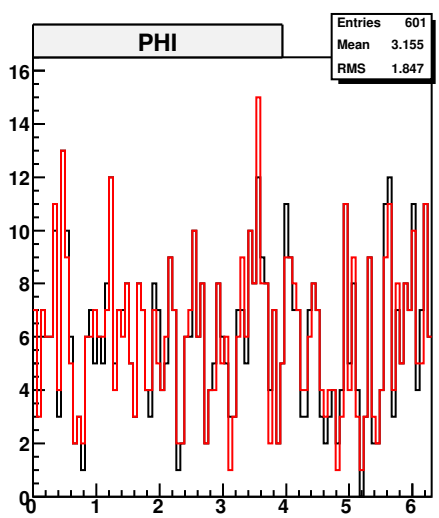



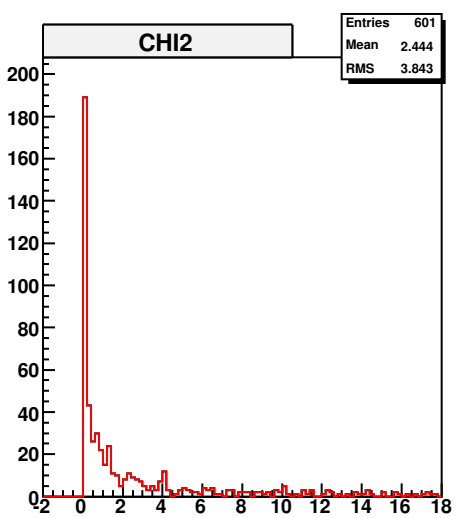

# Muon Local Tracks (MediumFamus)

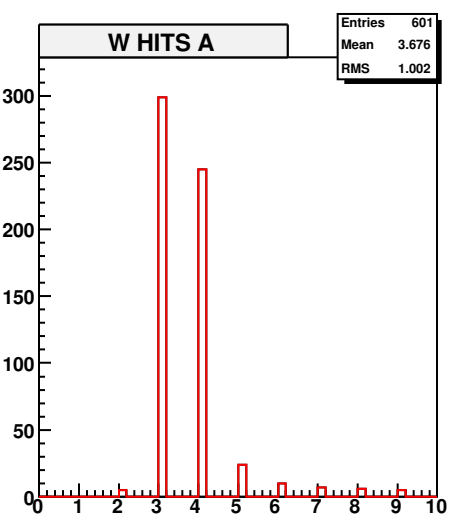


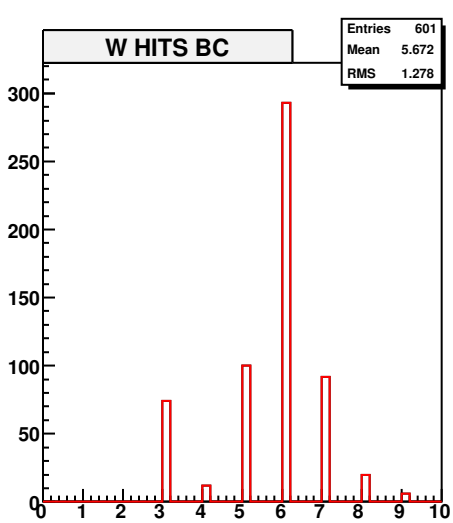



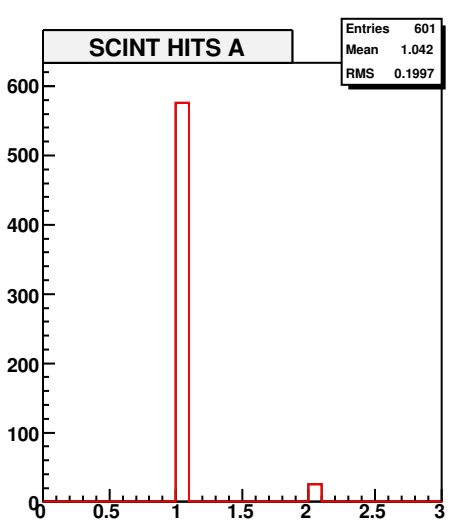



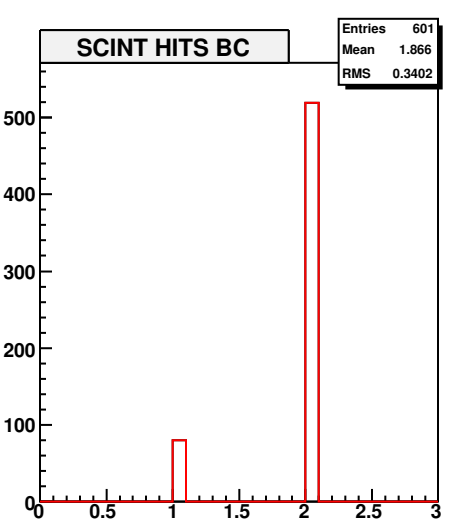



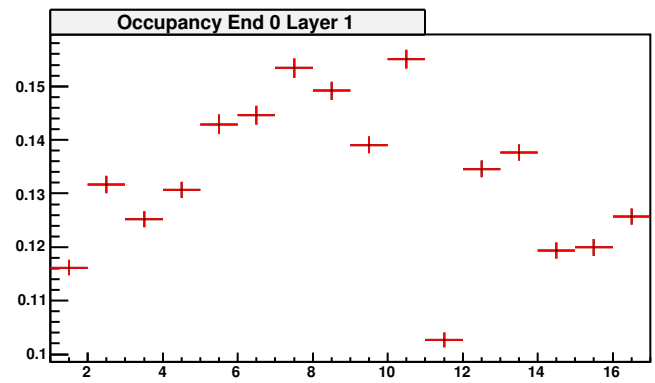



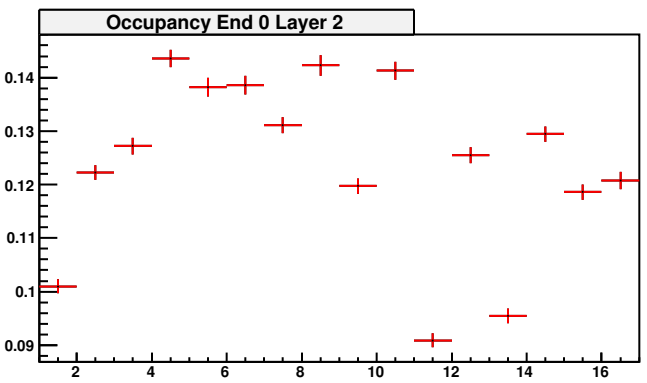



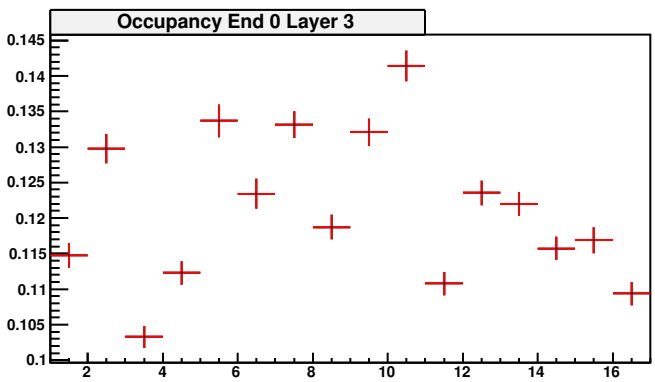



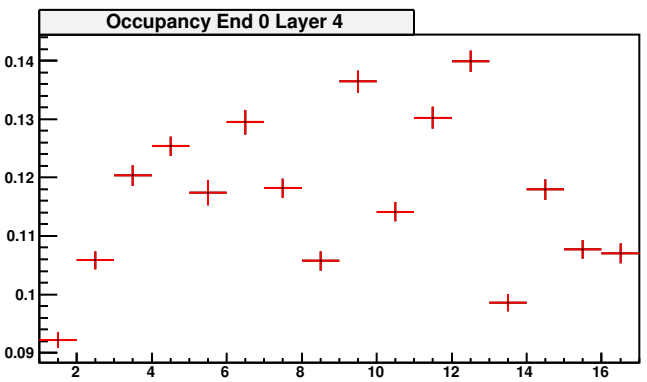



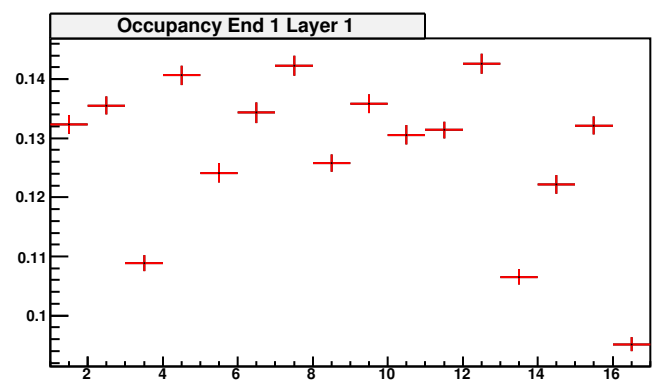

# Muon Local Tracks (TightFamus)

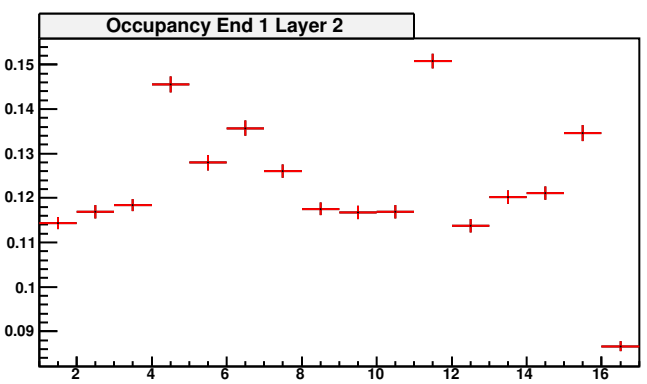


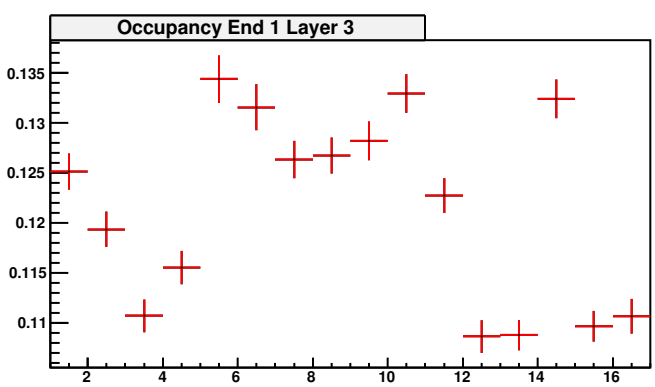



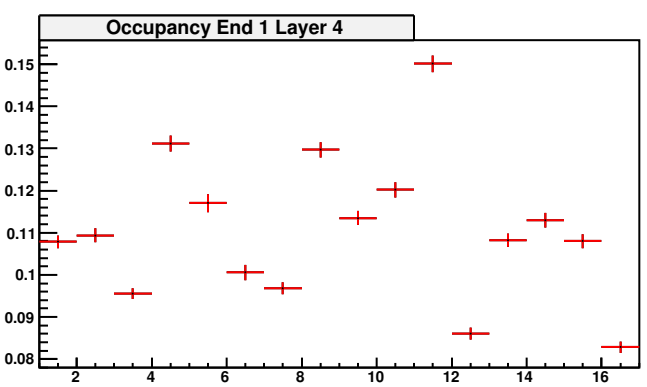



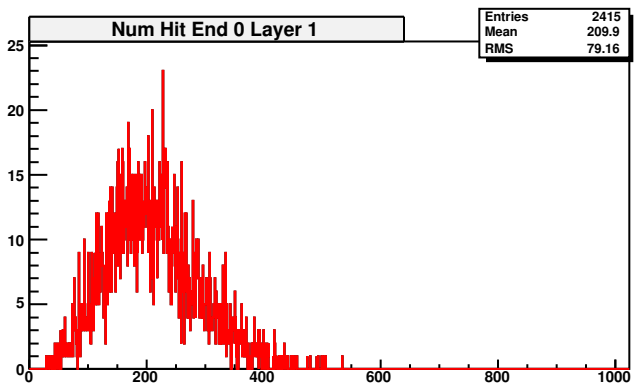



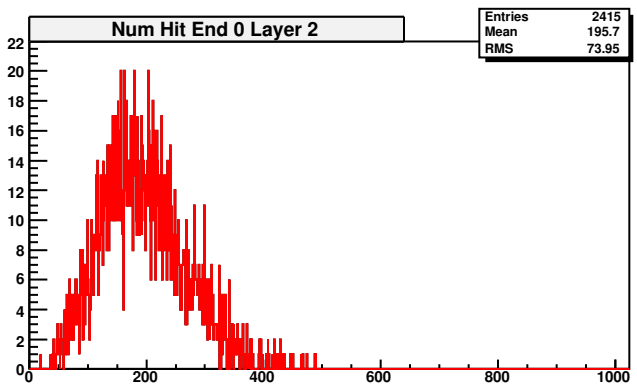



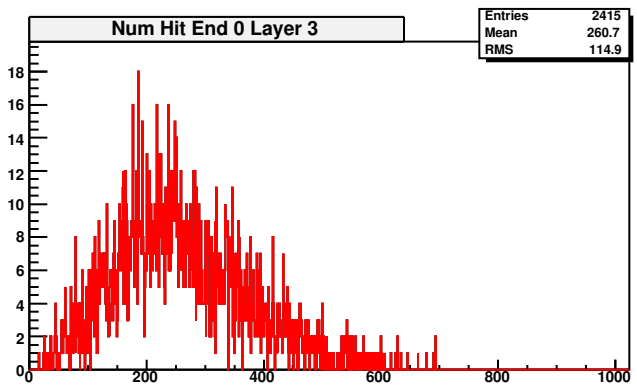



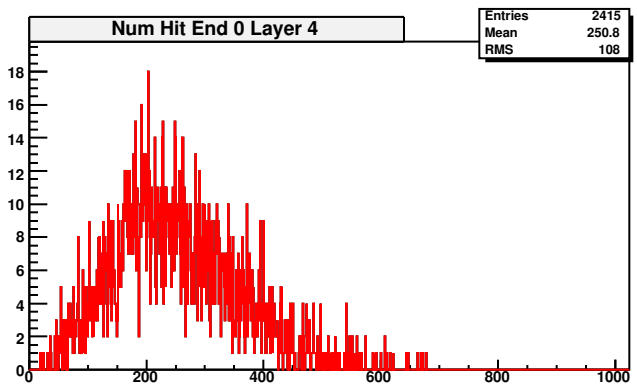



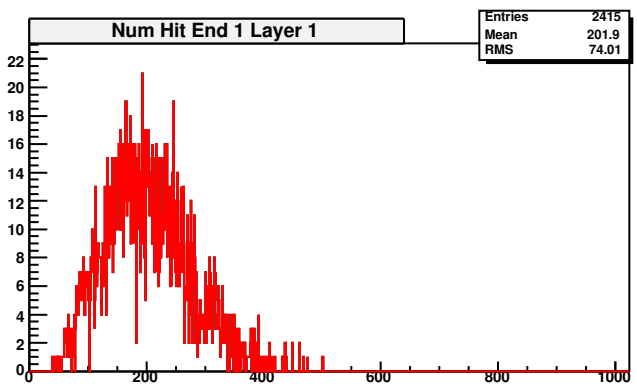

# FPS Hit Occupancy (All)

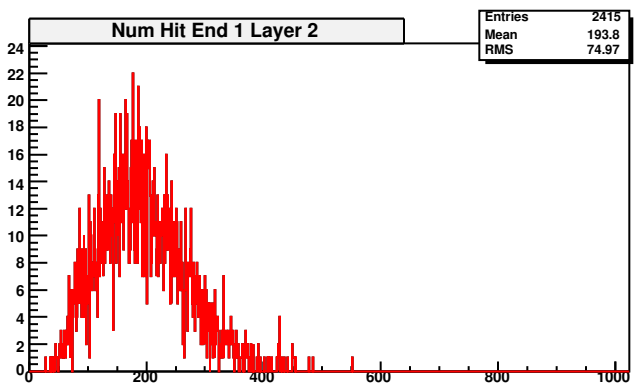


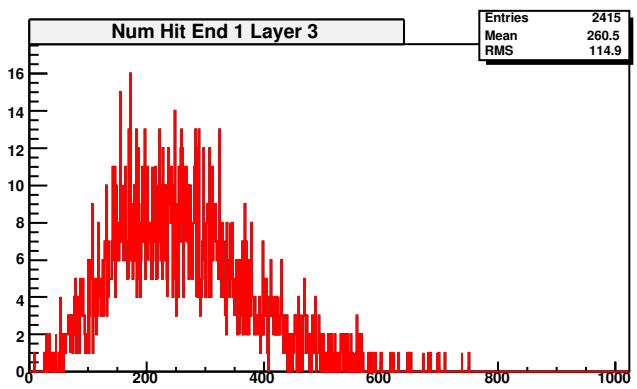



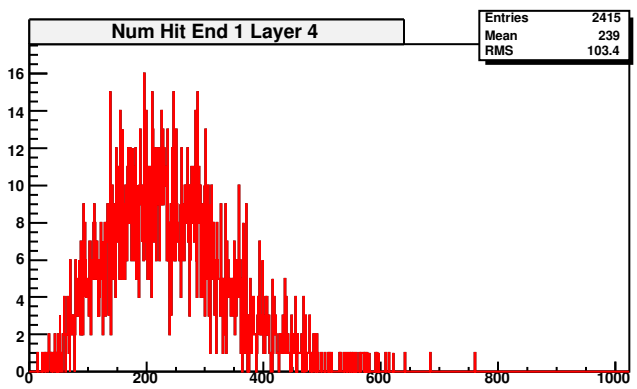



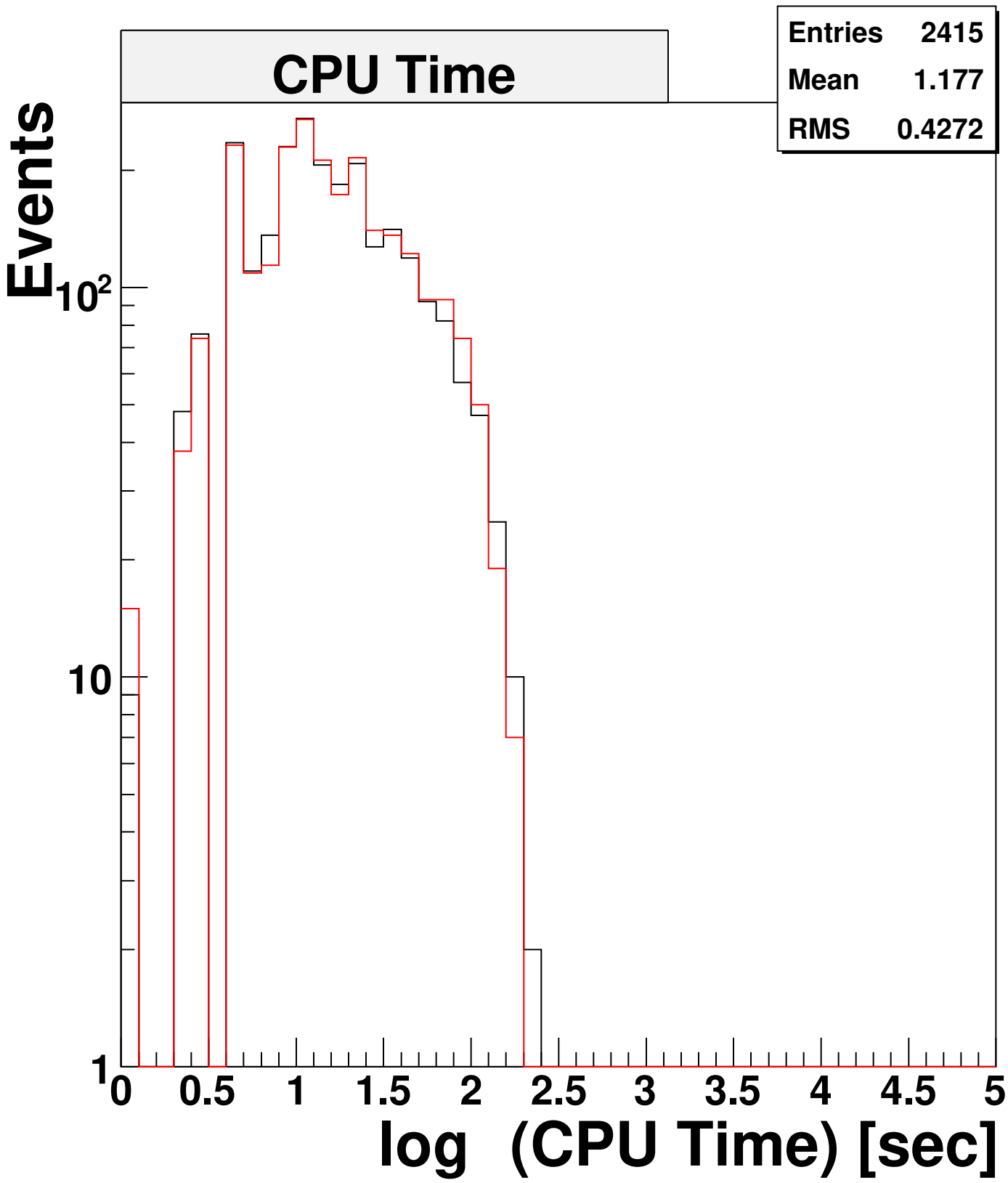




# FPS Number of Hits (All)




RECO Performance (Timing)