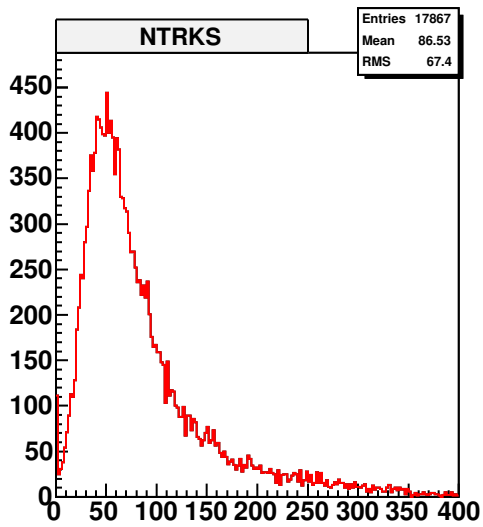
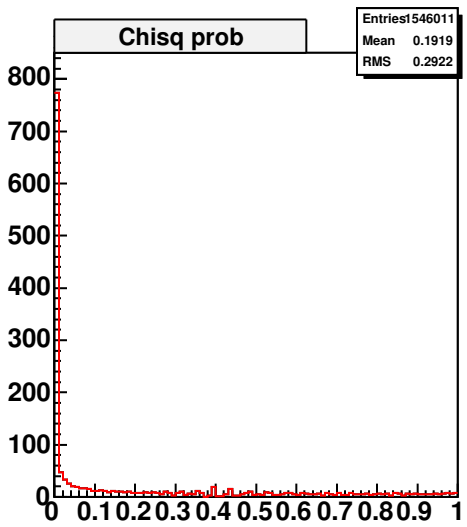
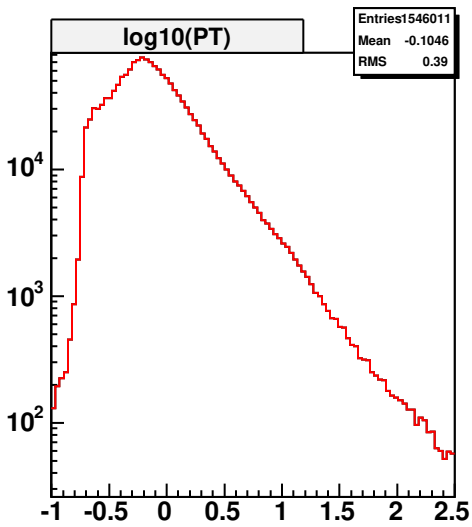
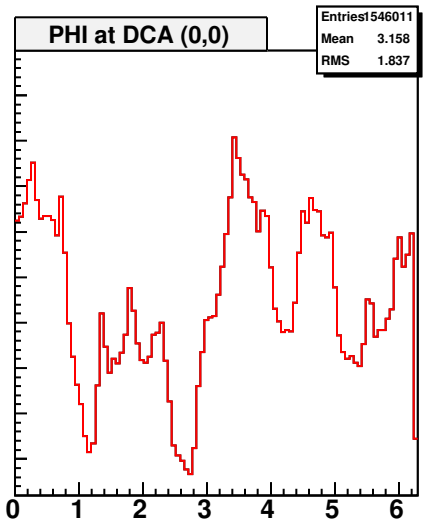
dayset-2004-06-22-194374-1_certification_

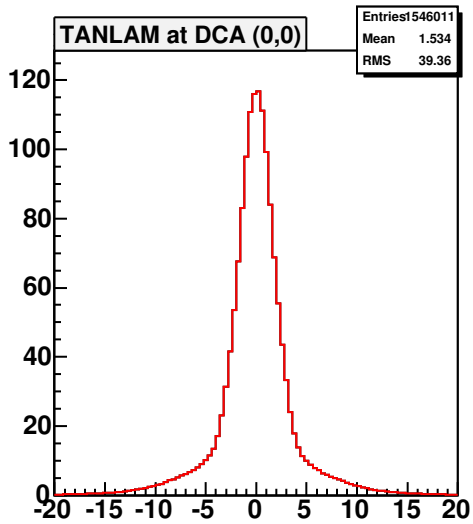
recoT_all_0000194374_mrg_104-191.raw_p

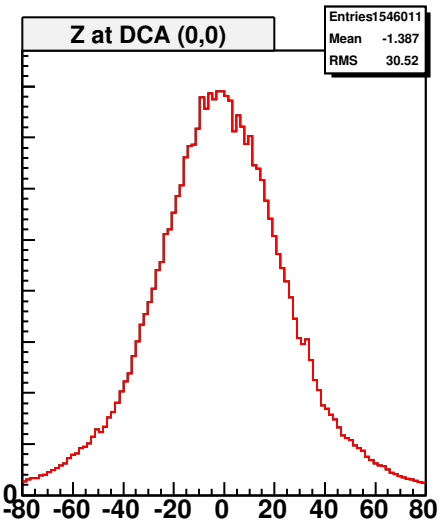

NTRKS
Entries 17867
Mean 86.53
RMS 67.4

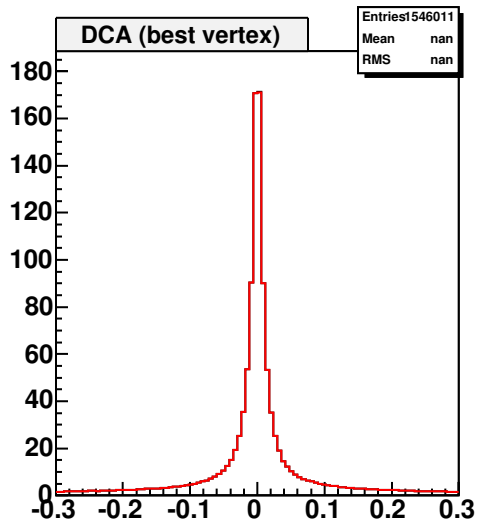

Chisq prob
Entries 1546011
Mean 0.1919
RMS 0.2922

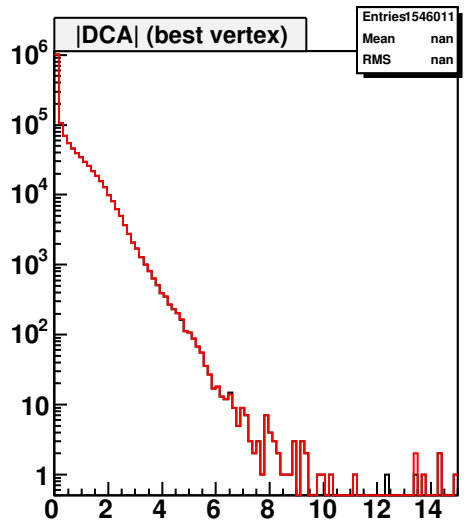

log10(PT)
Entries 1546011
Mean -0.1046
RMS 0.39

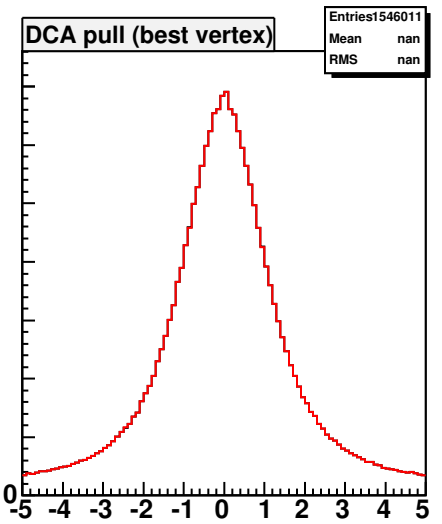

PHI at DCA (0,0)
Entries 1546011
Mean 3.158
RMS 1.837


TANLAM at DCA (0,0)
Entries 1546011
Mean 1.534
RMS 39.36

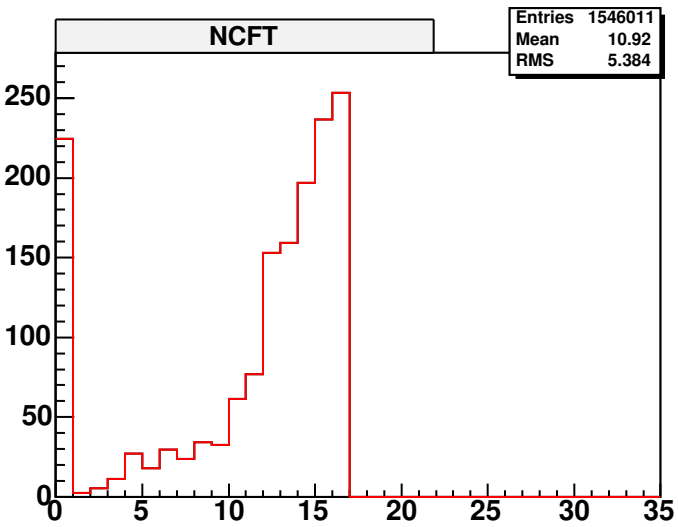

Z at DCA (0,0)
Entries 1546011
Mean -1.387
RMS 30.52

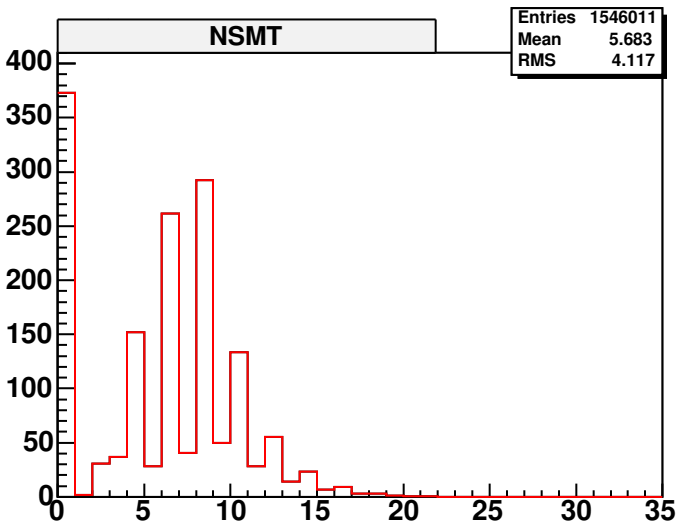

DCA (best vertex)
Entries 1546011
Mean nan
RMS nan

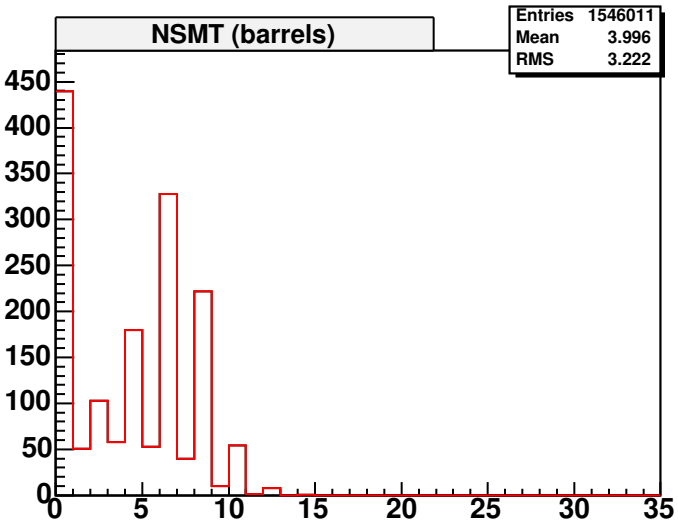

|DCA| (best vertex)
Entries 1546011
Mean nan
RMS nan

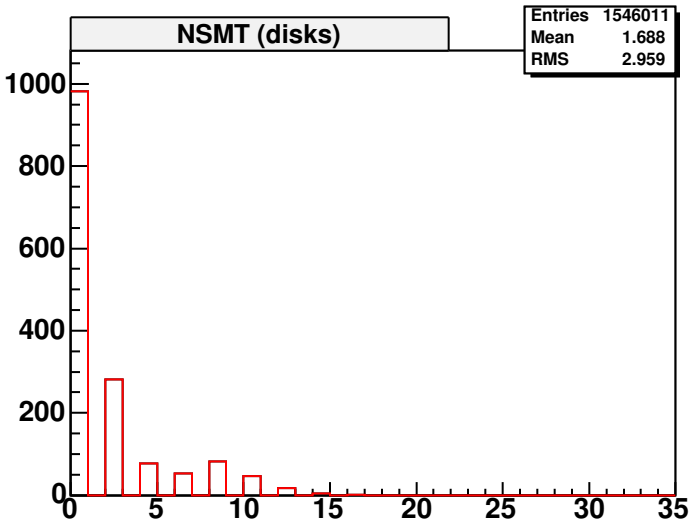

DCA pull (best vertex)
Entries 1546011
Mean nan
RMS nan

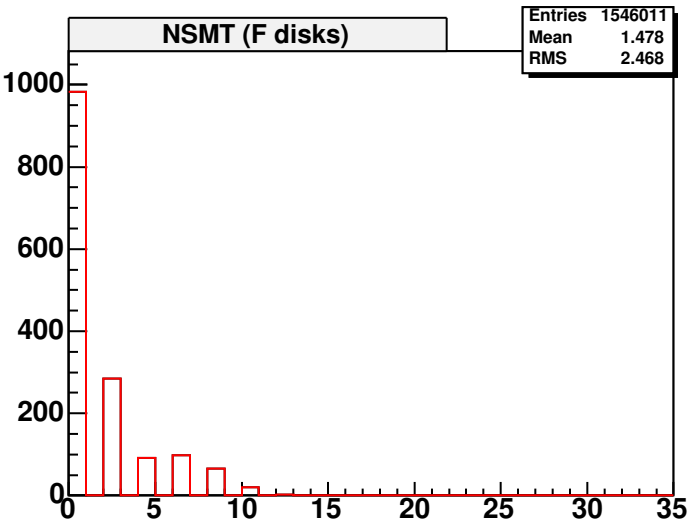
Tracks (All)

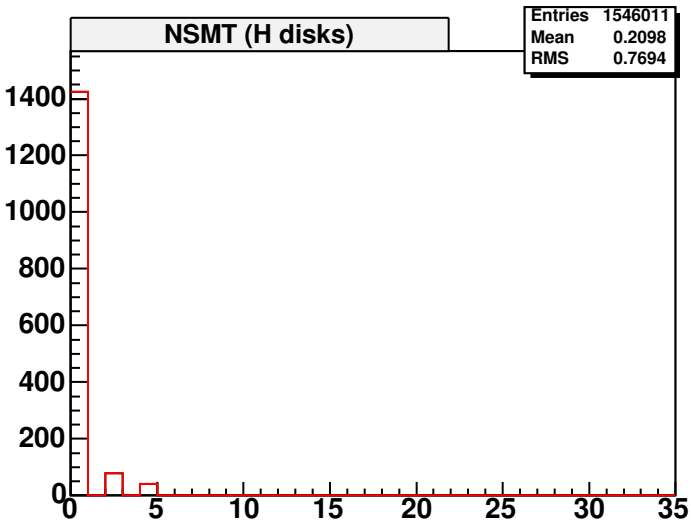




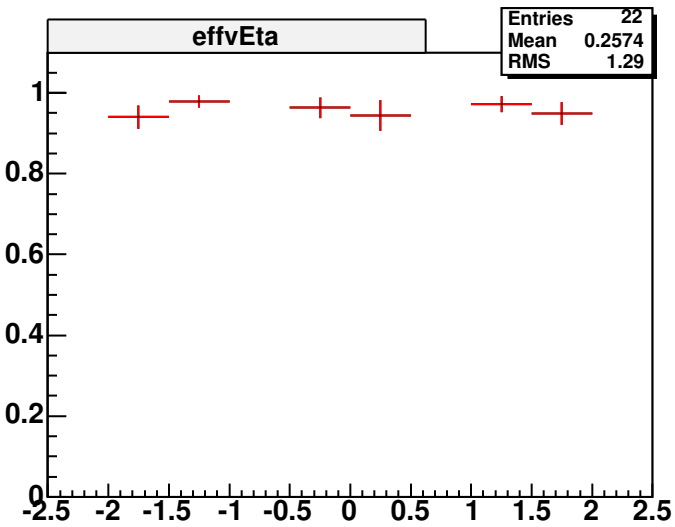


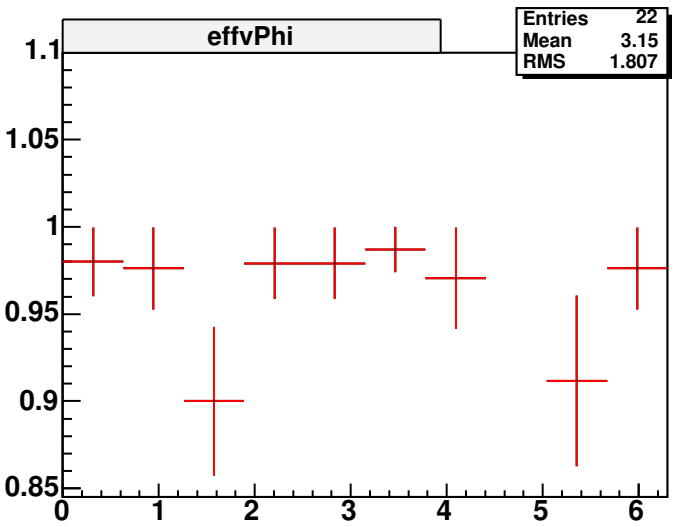


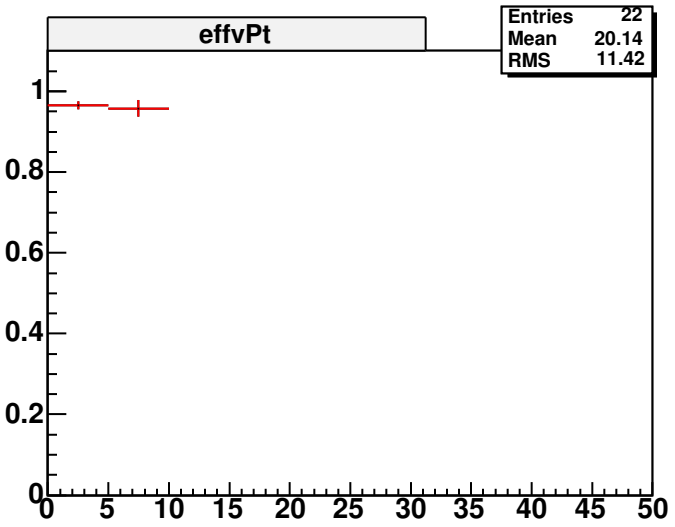


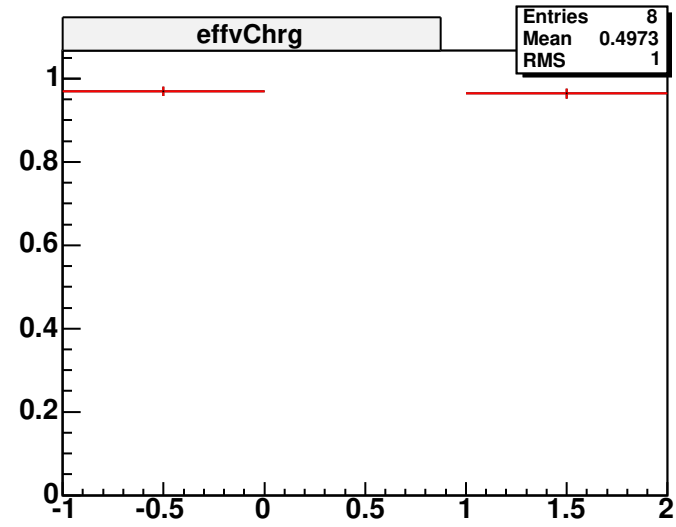


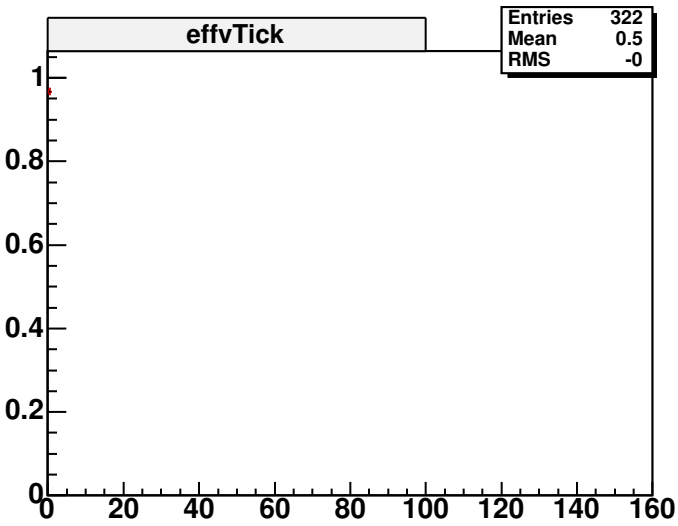
Track Hits (All)

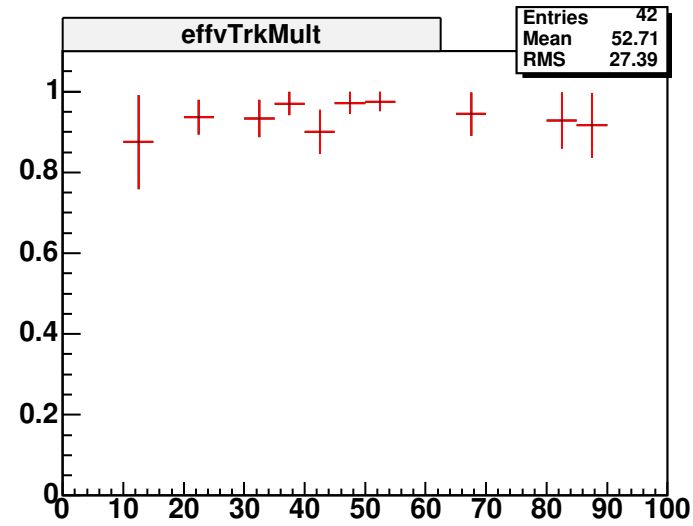




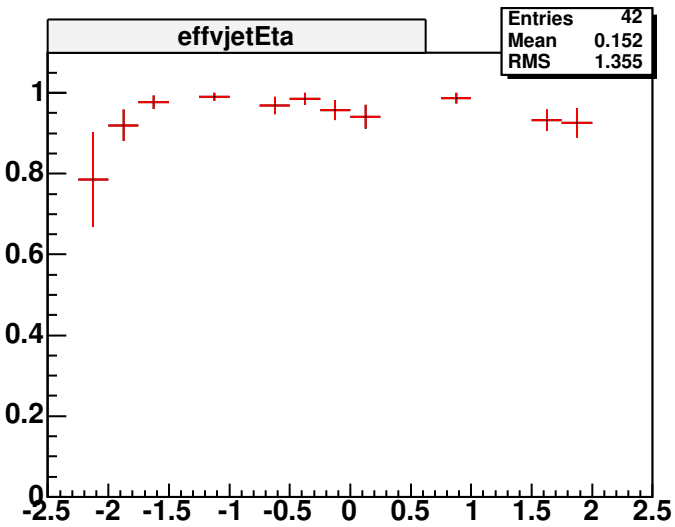


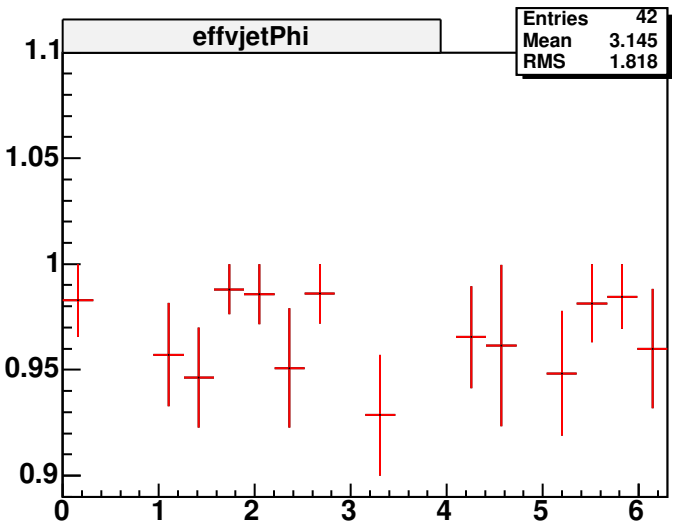


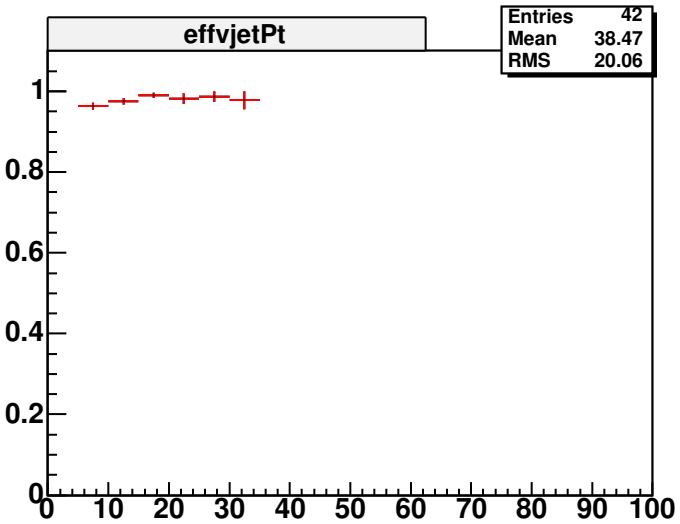


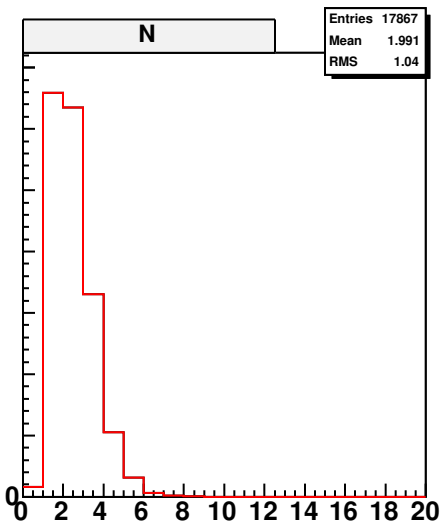


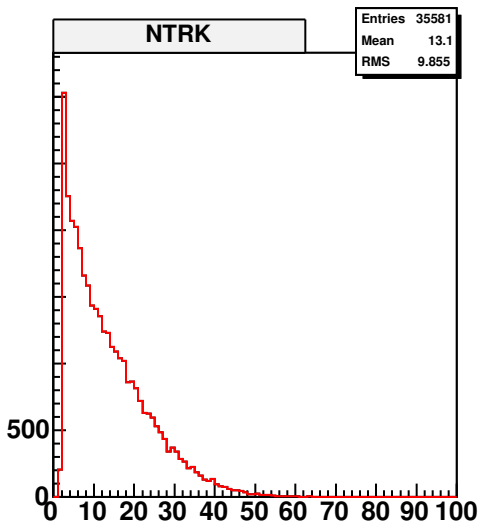
Tracking (Efficiency-Isolated)

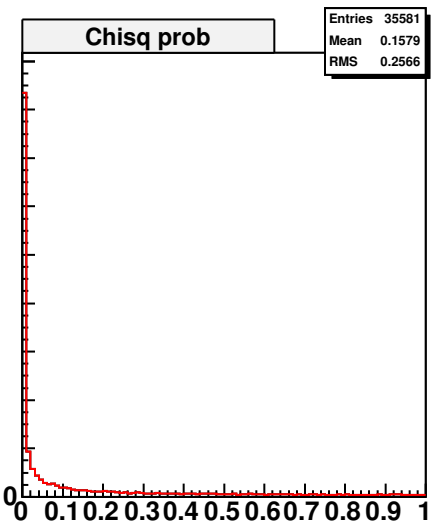

effvjetEta
Entries 42
Mean 0.152
RMS 1.355
1
0.8
0.6
0.4
0.2
0
-2.5 -2 -1.5 -1 -0.5 0 0.5 1 1.5 2 2.5

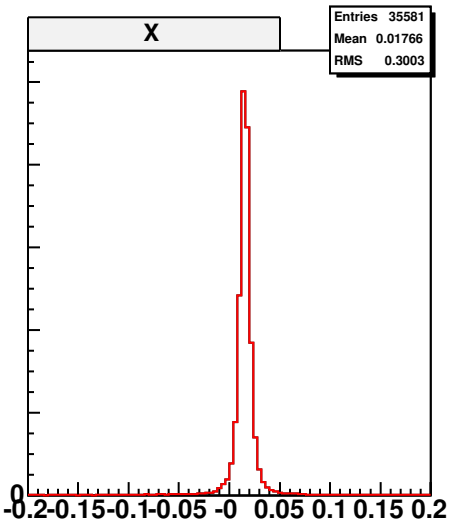

effvjetPhi
Entries 42
Mean 3.145
RMS 1.818
1.1
1.05
1
0.95
0.9
0 1 2 3 4 5 6

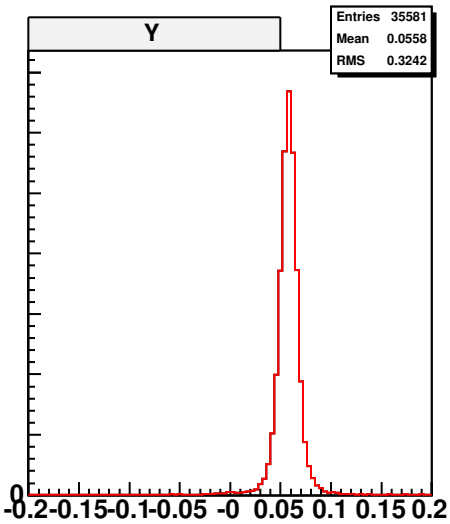

effvjetPt
Entries 42
Mean 38.47
RMS 20.06
1
0.8
0.6
0.4
0.2
0
0 10 20 30 40 50 60 70 80 90 100

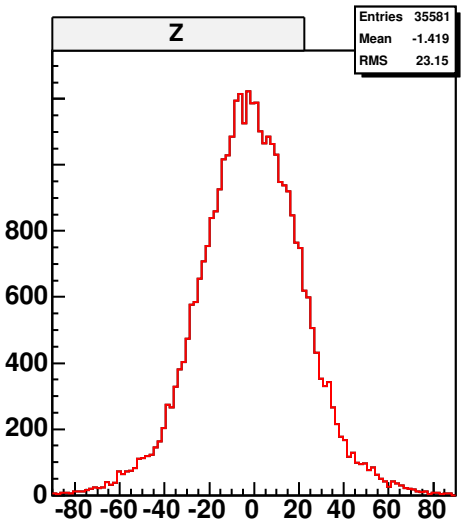


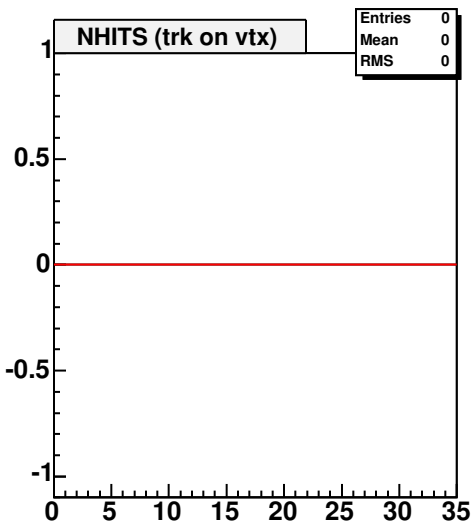


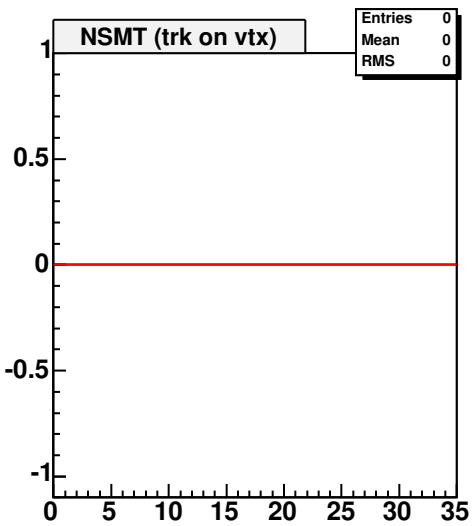


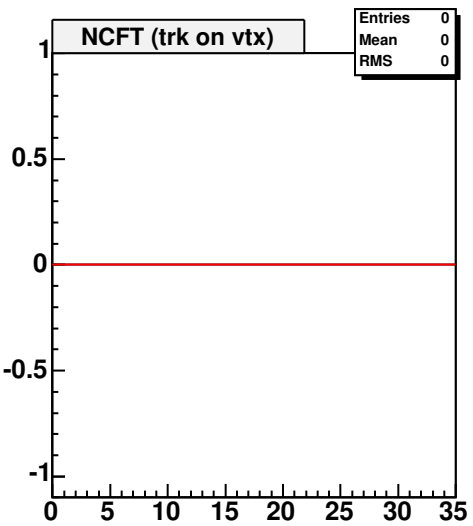




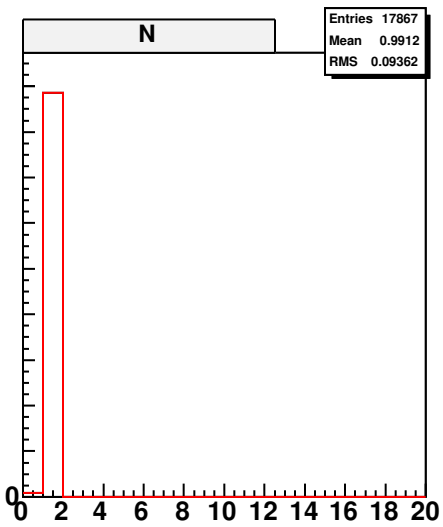


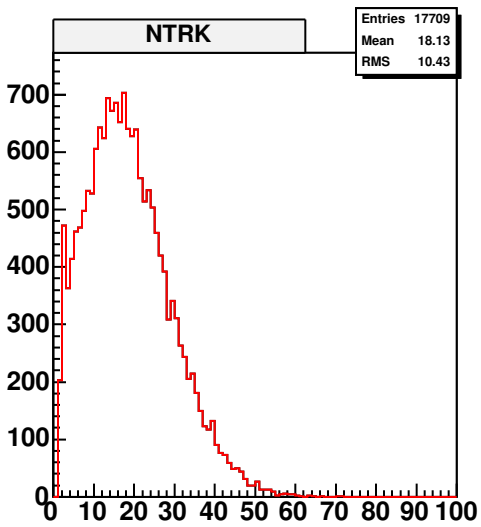


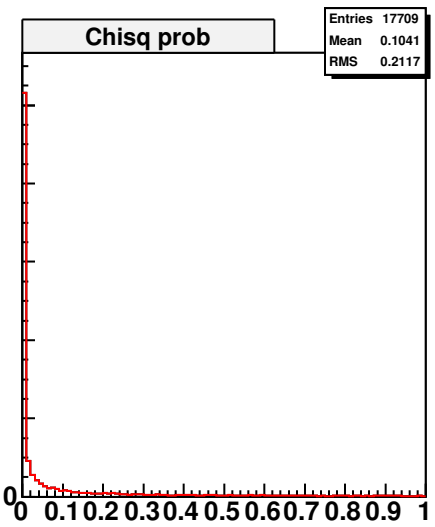


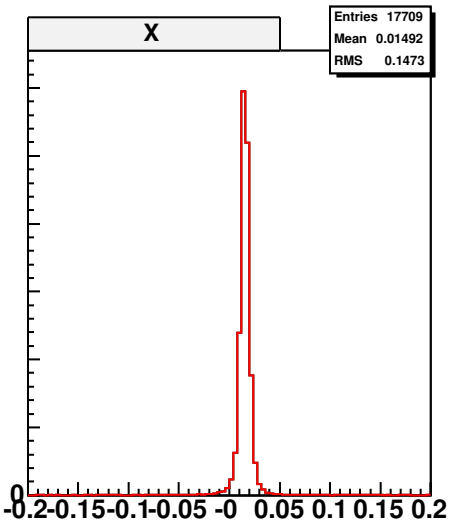


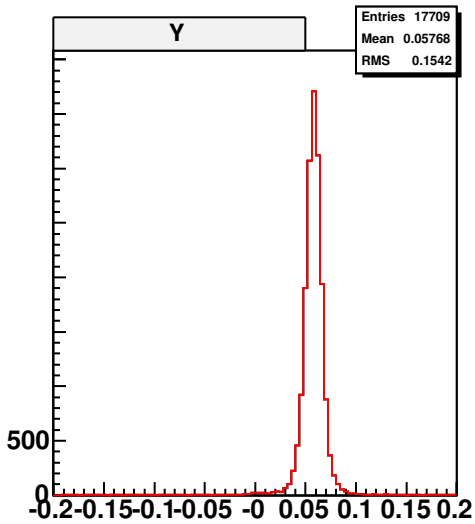
Vertices (Primary - all candidates)

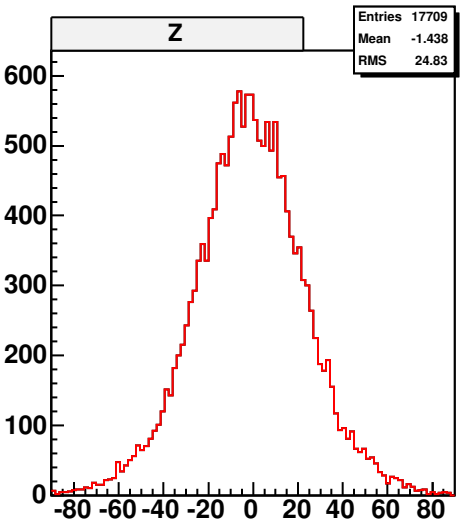


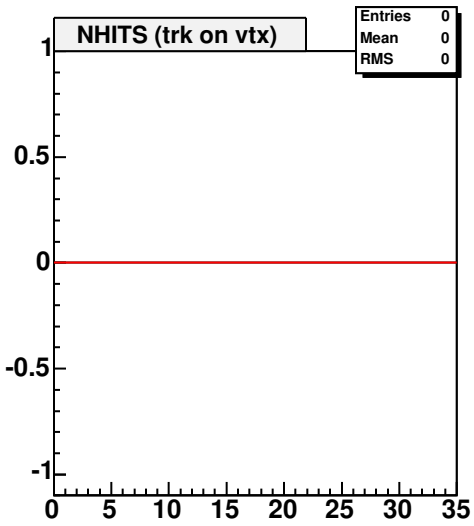


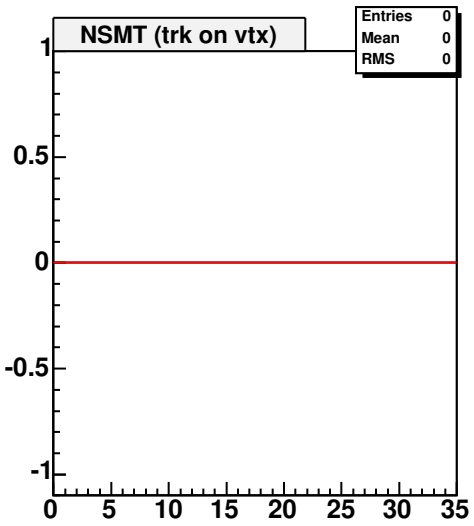


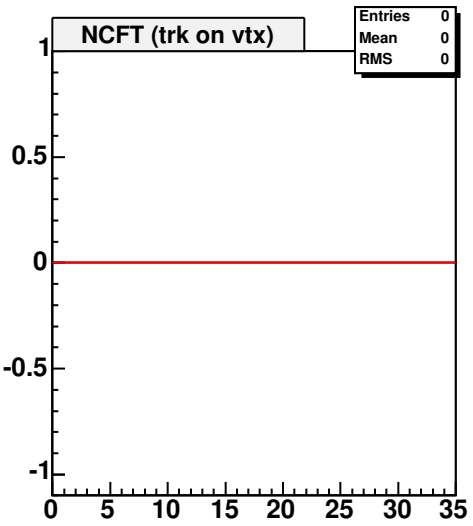




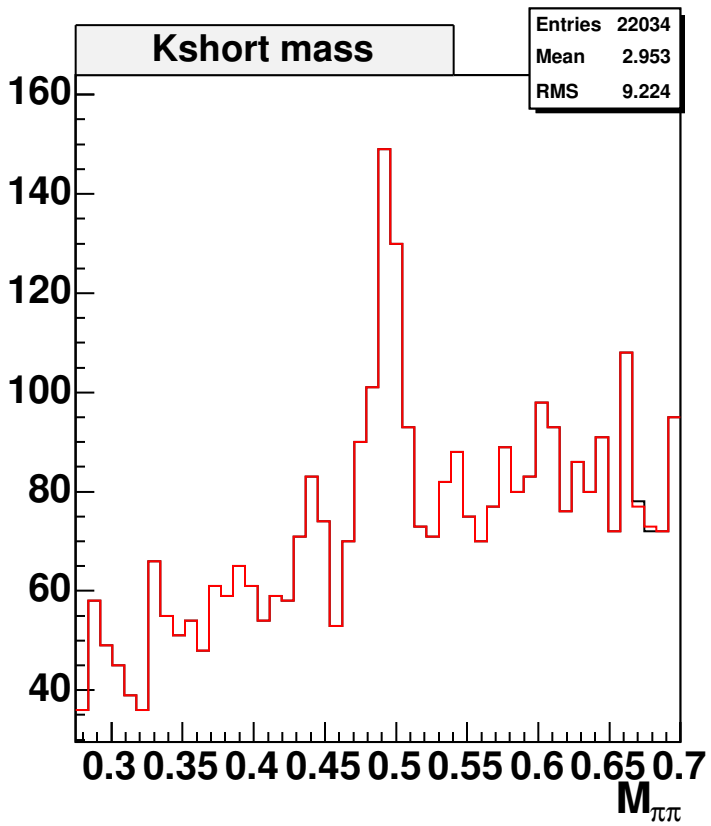


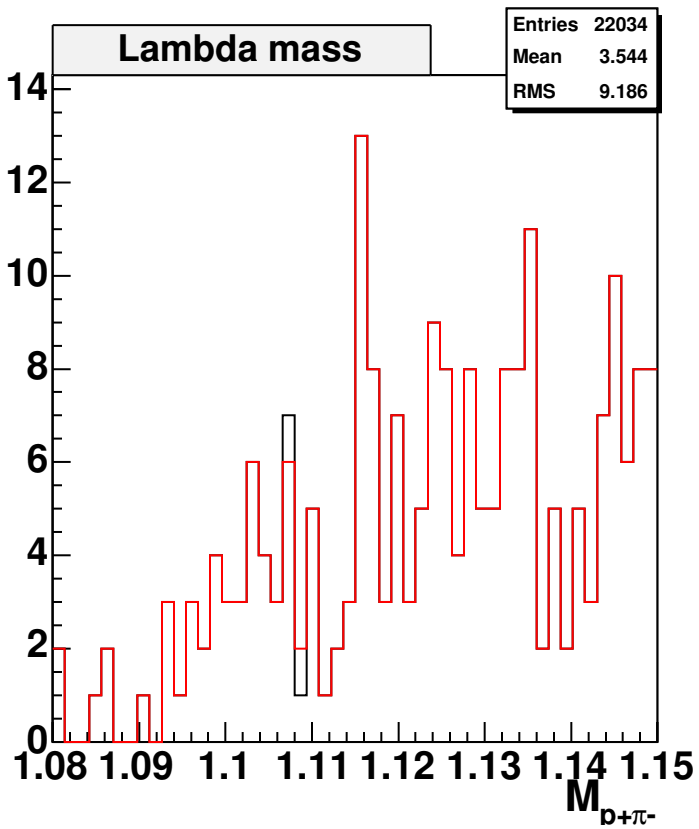


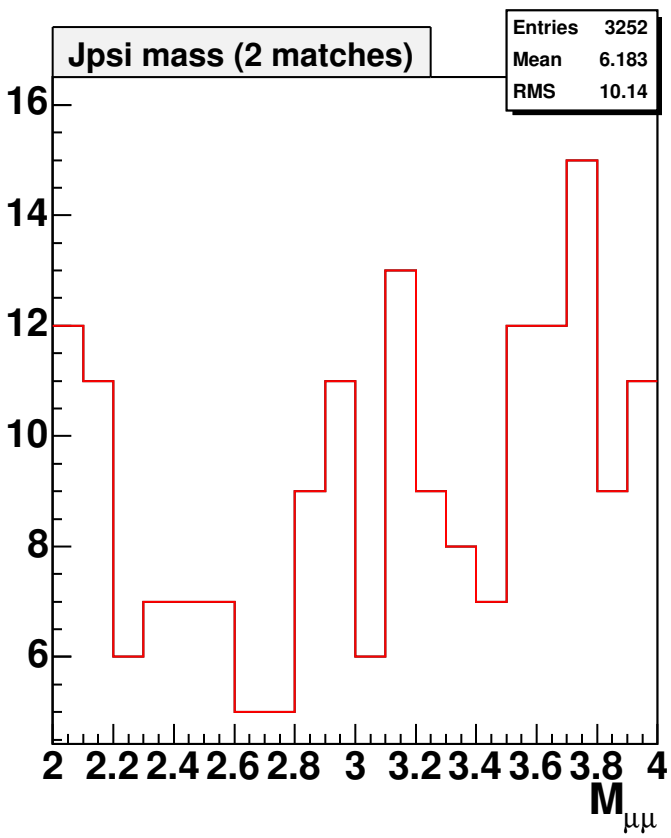


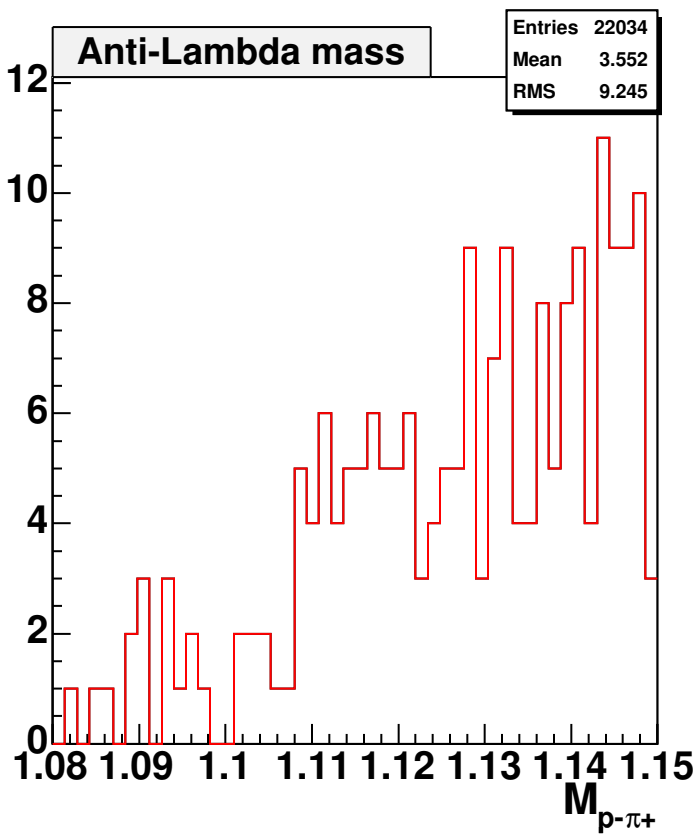


Vertices (Primary - best)

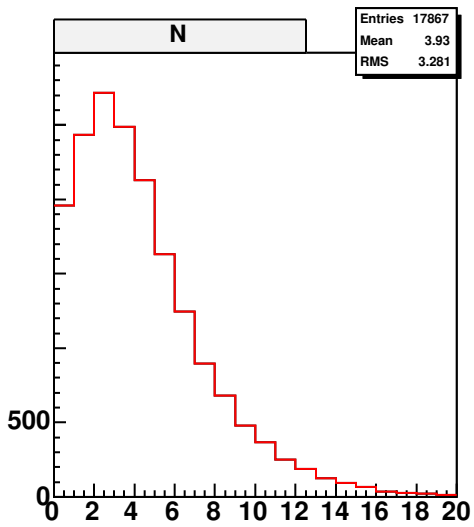

Kshort mass
Entries 22034
Mean 2.953
RMS 9.224
160
140
120
100
80
60
40
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

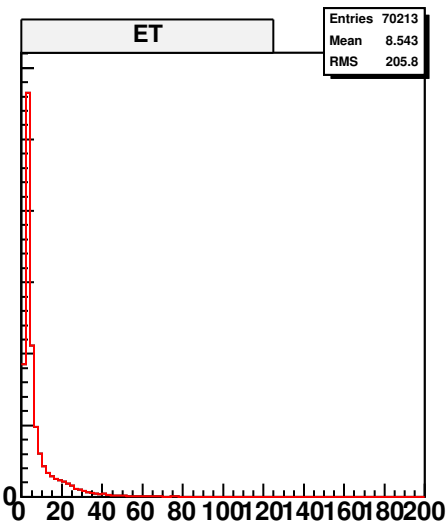

Lambda mass
Entries 22034
Mean 3.544
RMS 9.186
14
12
10
8
6
4
2
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

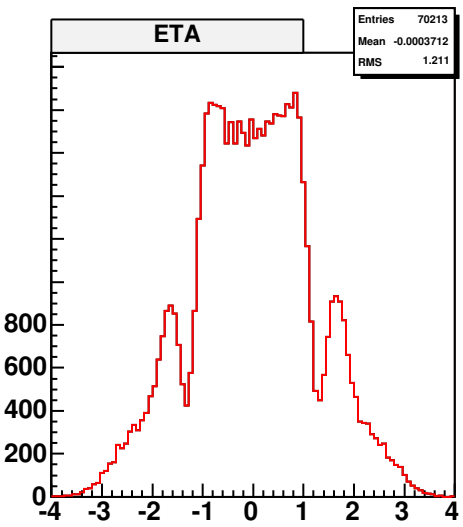

Jpsi mass (2 matches)
Entries 3252
Mean 6.183
RMS 10.14
16
14
12
10
8
6
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

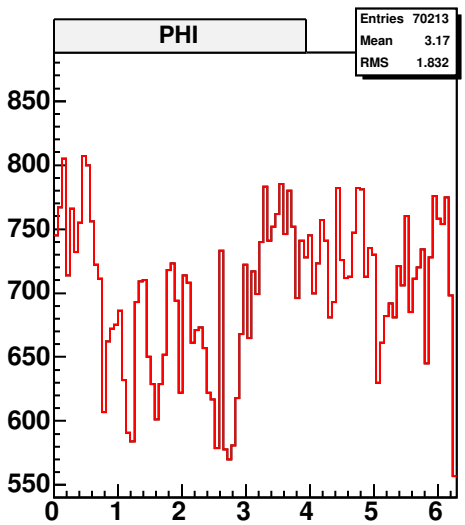

Anti-Lambda mass
Entries 22034
Mean 3.552
RMS 9.245
12
10
8
6
4
2
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

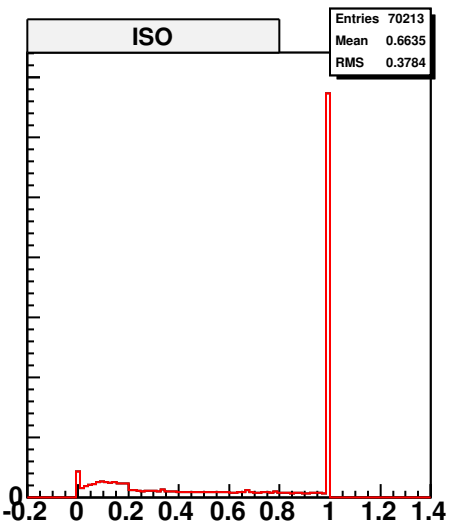
V0 (All)

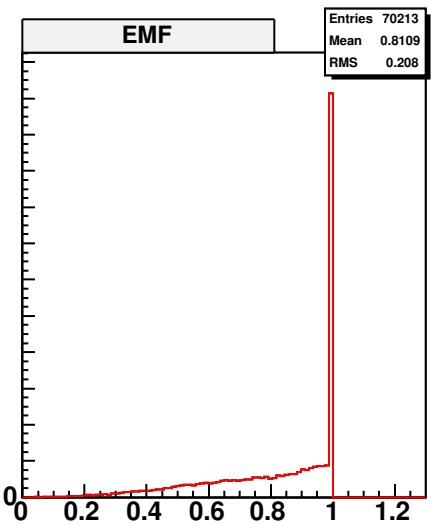


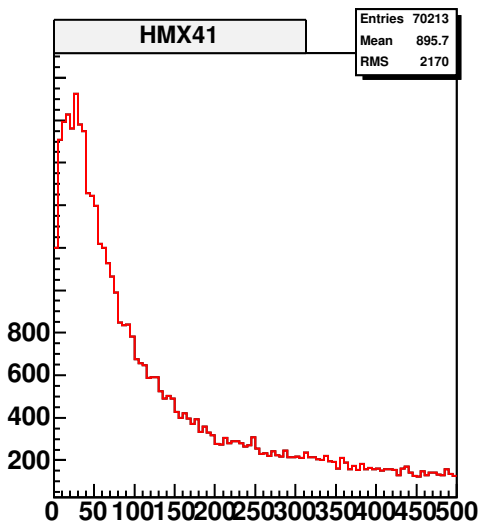


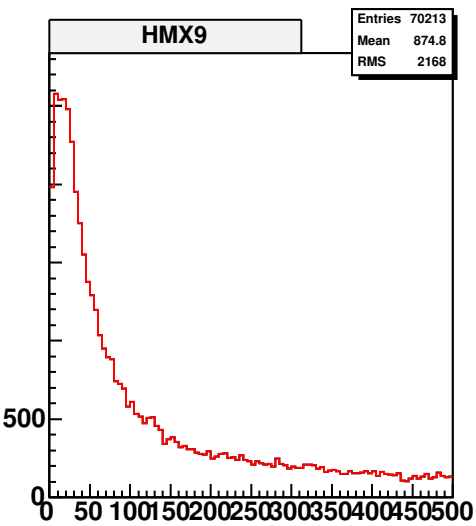


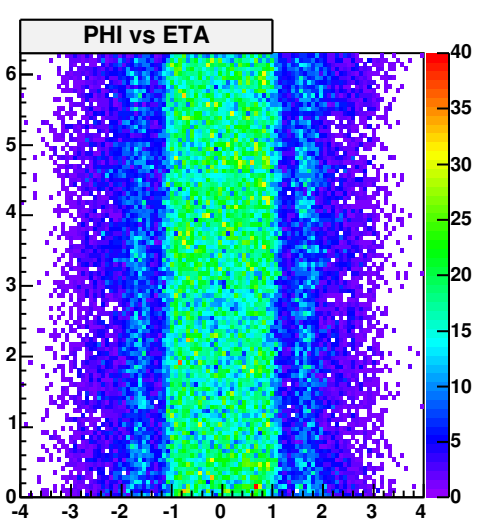




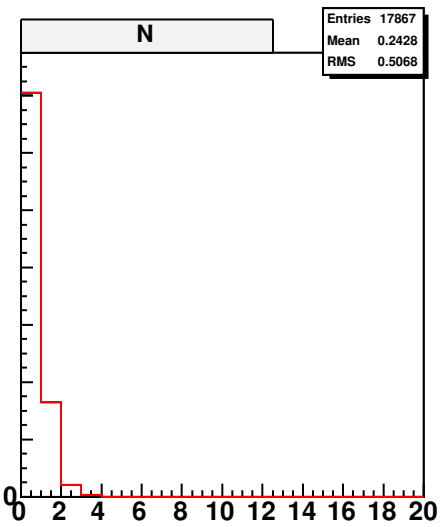


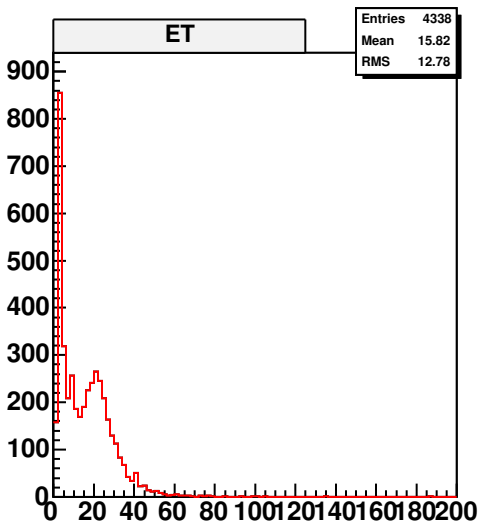


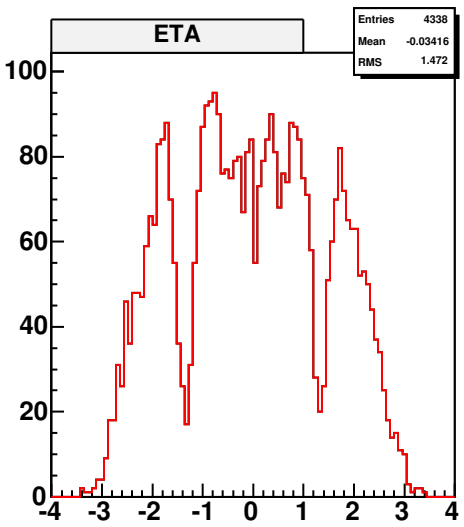


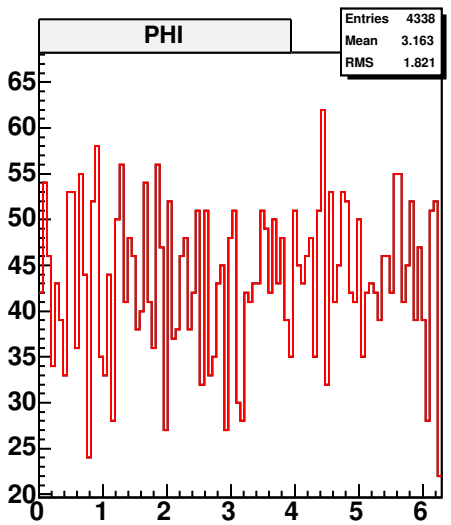


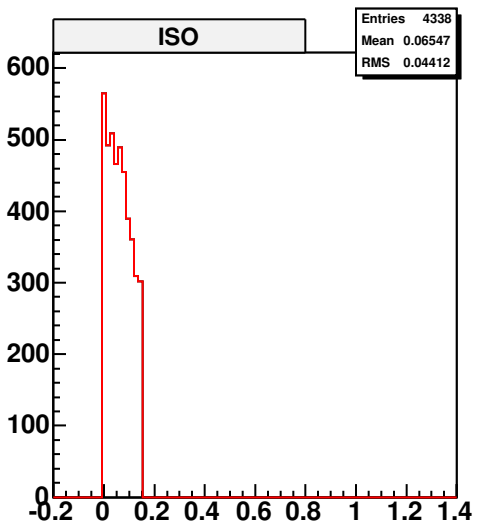
Electrons (SCONE All)

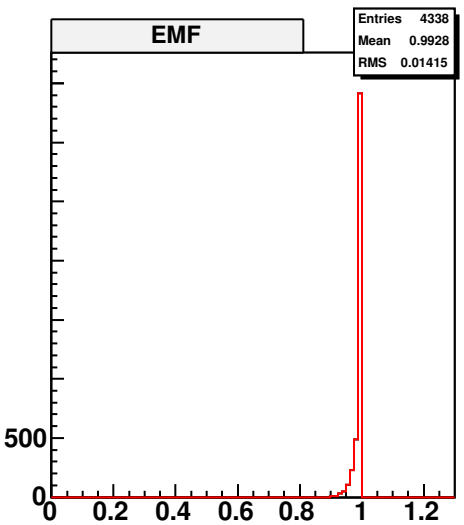


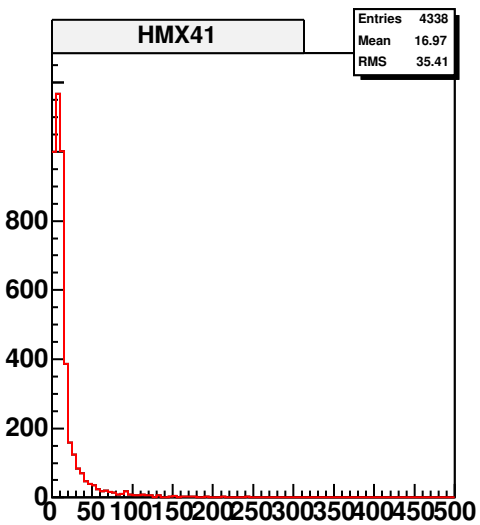


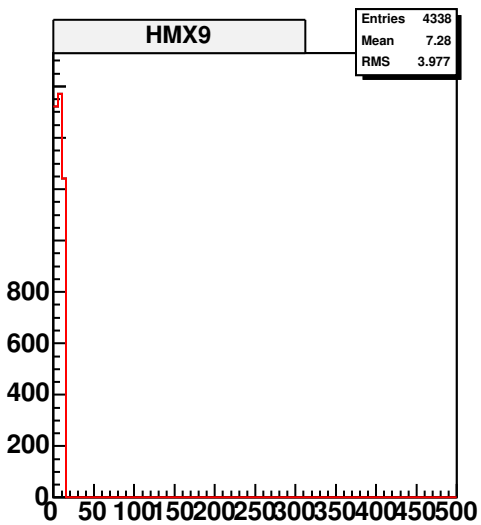


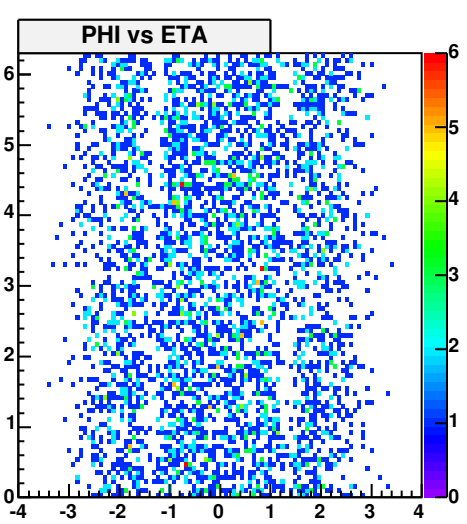




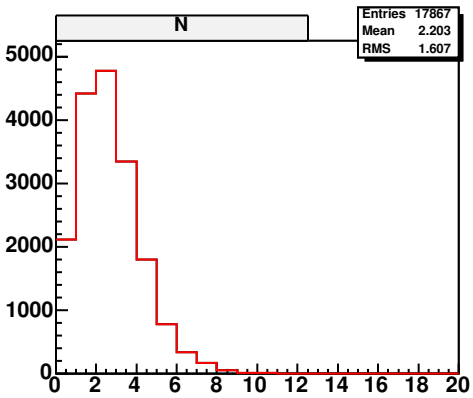


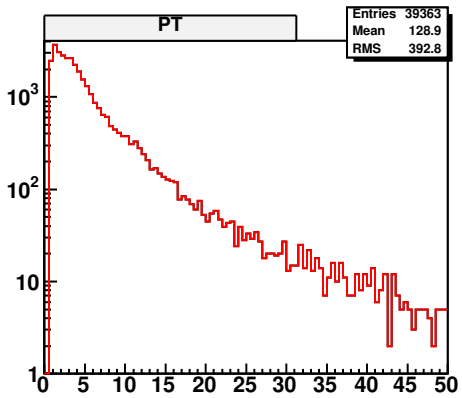


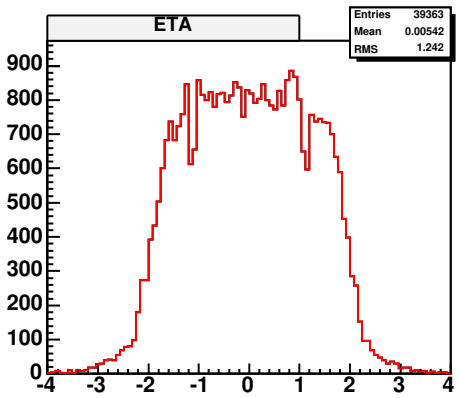


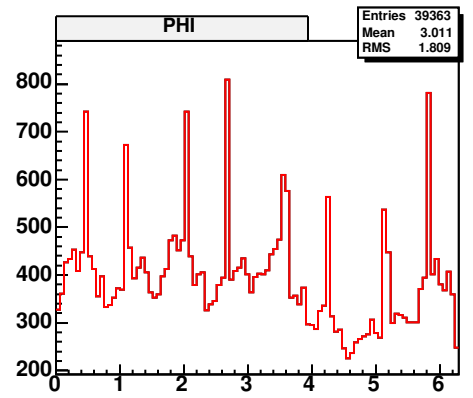


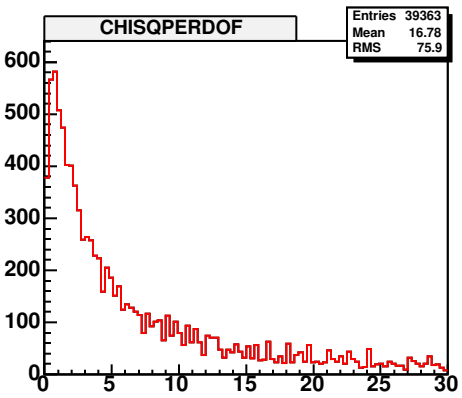
Electrons (SCONE Tight)

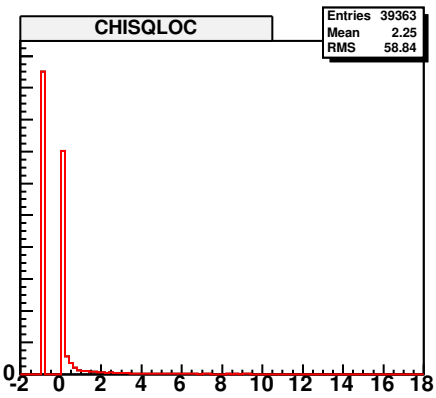

N
Entries 17867
Mean 2.203
RMS 1.607

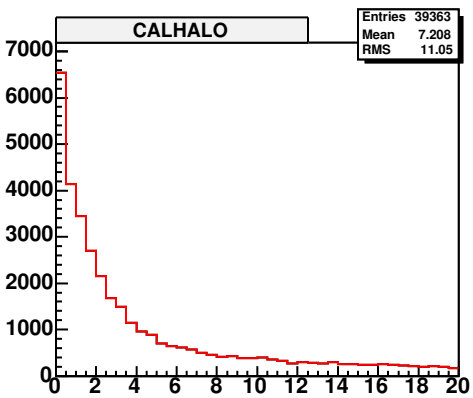

PT
Entries 39363
Mean 128.9
RMS 392.8

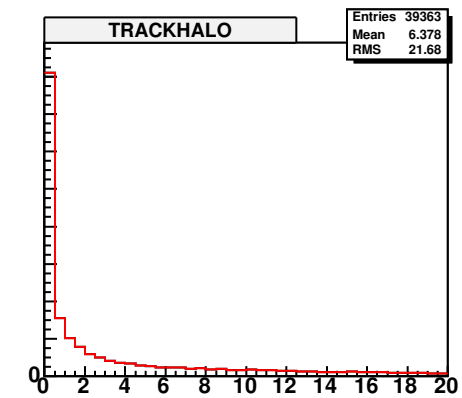

ETA
Entries 39363
Mean 0.00542
RMS 1.242

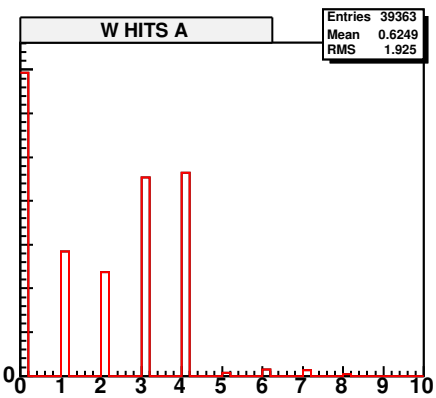

PHI
Entries 39363
Mean 3.011
RMS 1.809

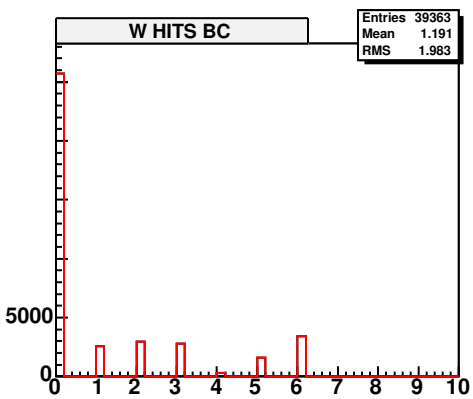

CHISQPERDOF
Entries 39363
Mean 16.78
RMS 75.9

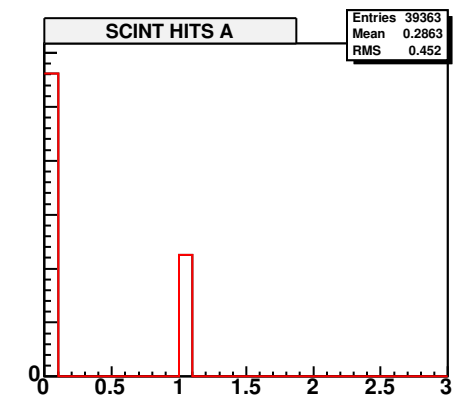

CHISQLOC
Entries 39363
Mean 2.25
RMS 58.84

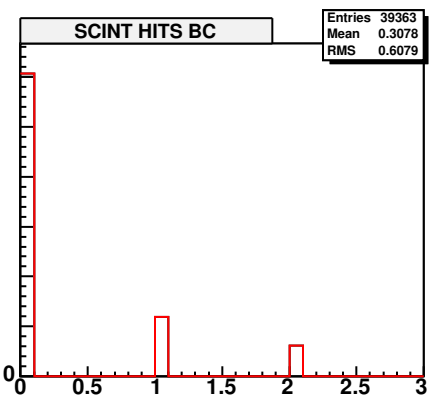

CALHALO
Entries 39363
Mean 7.208
RMS 11.05


TRACKHALO
Entries 39363
Mean 6.378
RMS 21.68

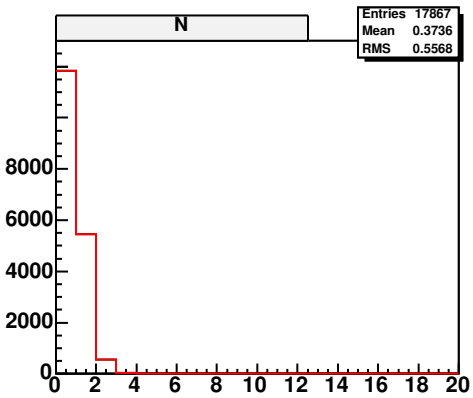

W HITS A
Entries 39363
Mean 0.6249
RMS 1.925

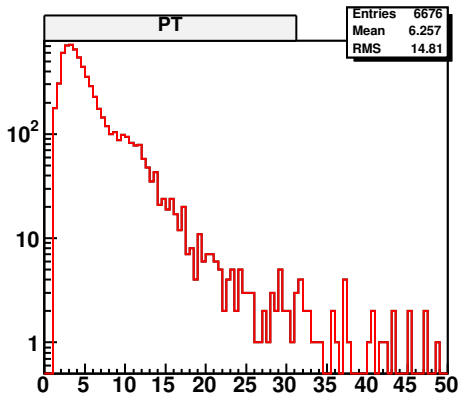

W HITS BC
Entries 39363
Mean 1.191
RMS 1.983

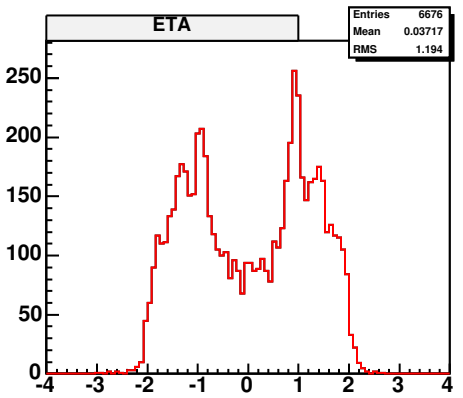

SCINT HITS A
Entries 39363
Mean 0.2863
RMS 0.452

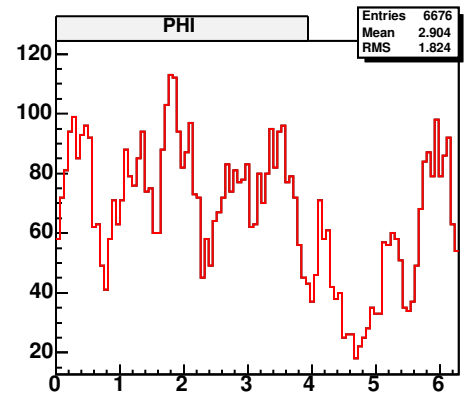

SCINT HITS BC
Entries 39363
Mean 0.3078
RMS 0.6079

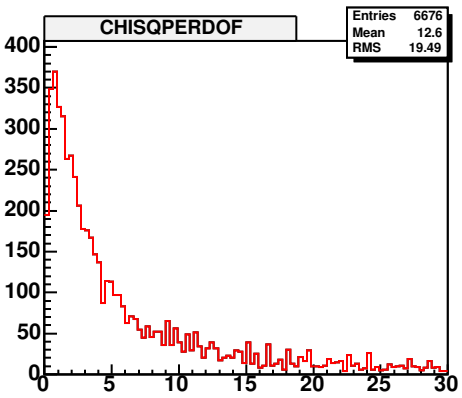
Muons (All)

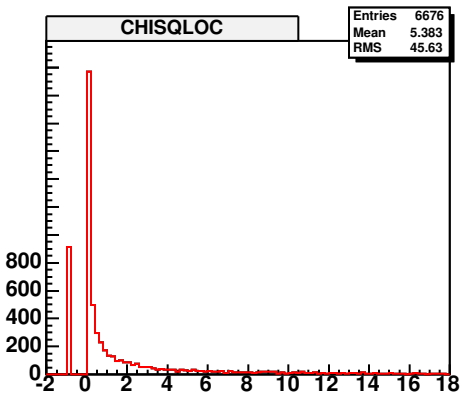


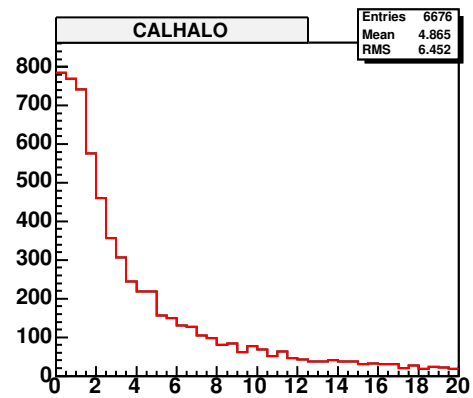


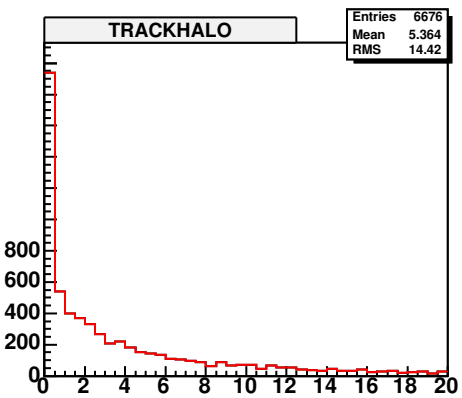


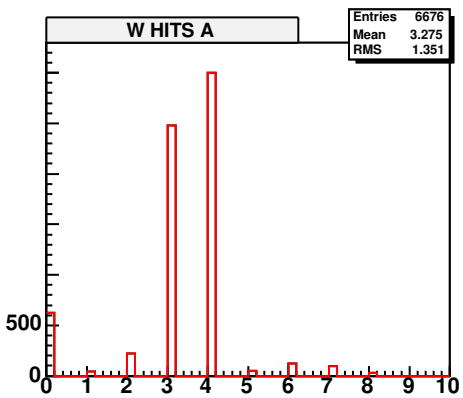


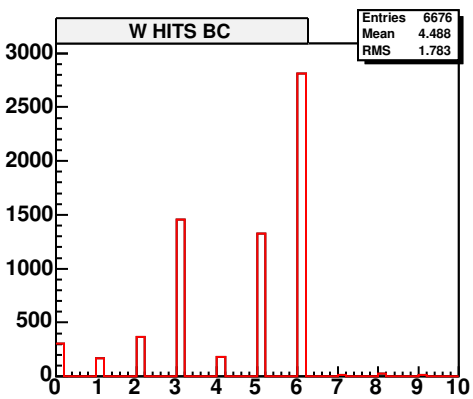


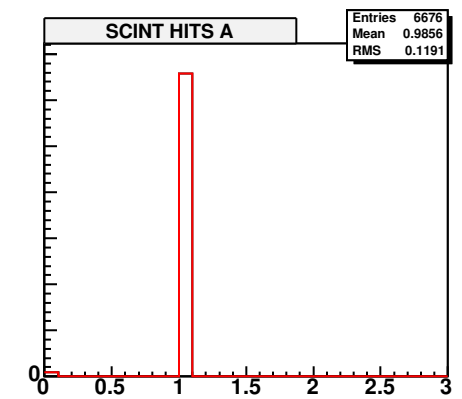


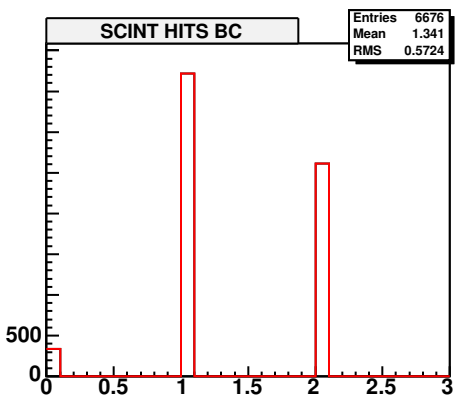




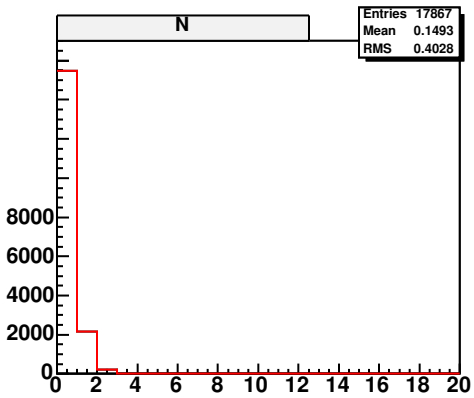


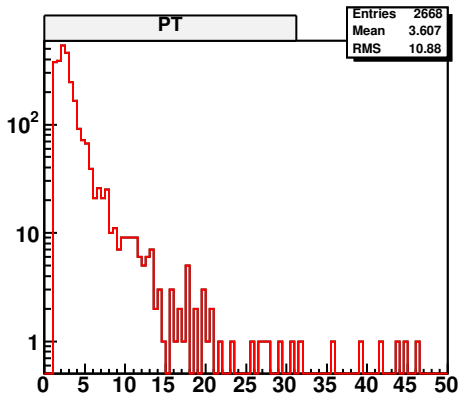


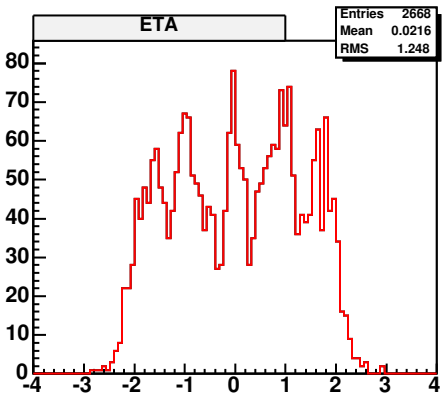


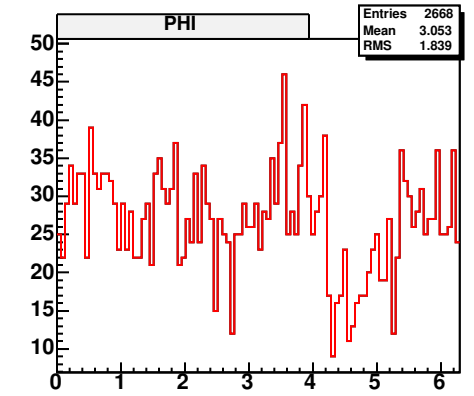


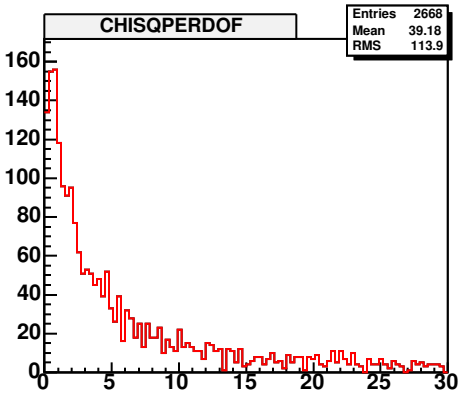
Muons (Matched)

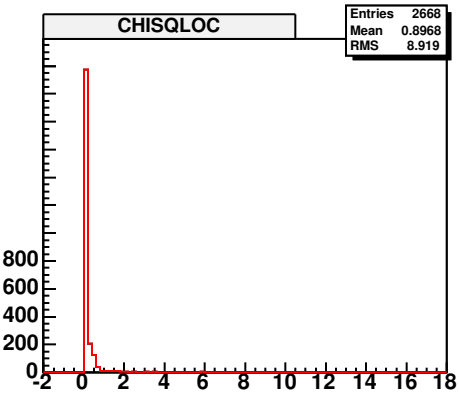

N
Entries 17867
Mean 0.1493
RMS 0.4028

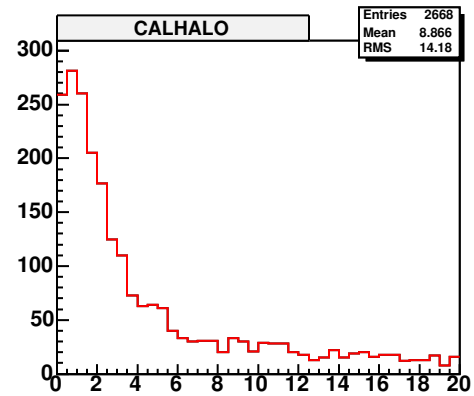

PT
Entries 2668
Mean 3.607
RMS 10.88

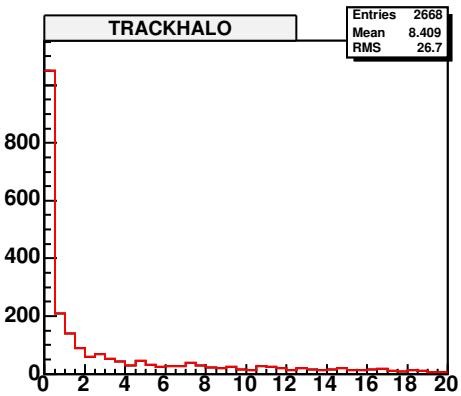

ETA
Entries 2668
Mean 0.0216
RMS 1.248

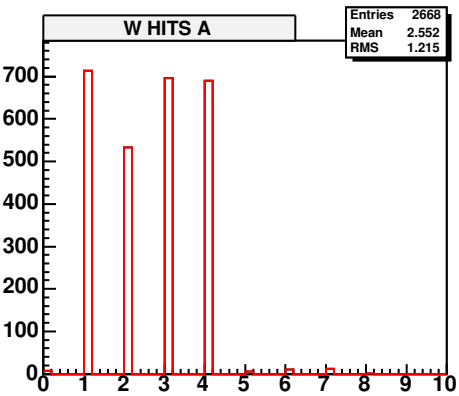

PHI
Entries 2668
Mean 3.053
RMS 1.839

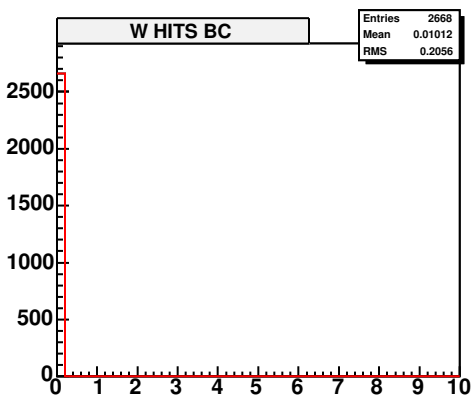

CHISQPERDOF
Entries 2668
Mean 39.18
RMS 113.9

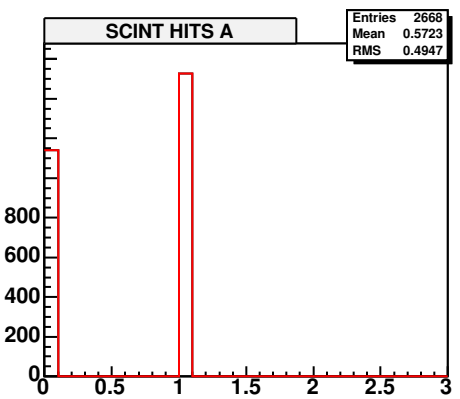

CHISQLOC
Entries 2668
Mean 0.8968
RMS 8.919

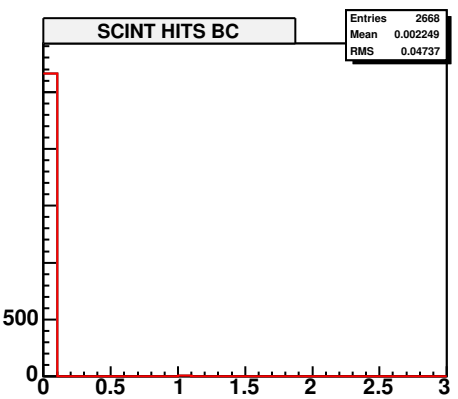

CALHALO
Entries 2668
Mean 8.866
RMS 14.18


TRACKHALO
Entries 2668
Mean 8.409
RMS 26.7

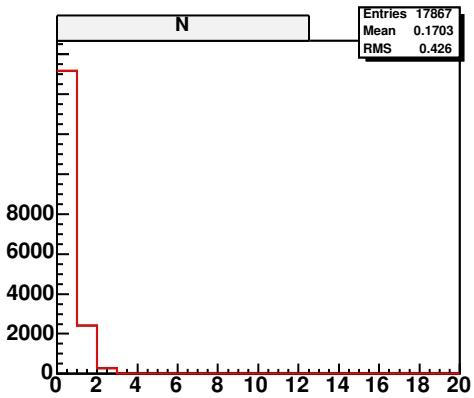

W HITS A
Entries 2668
Mean 2.552
RMS 1.215

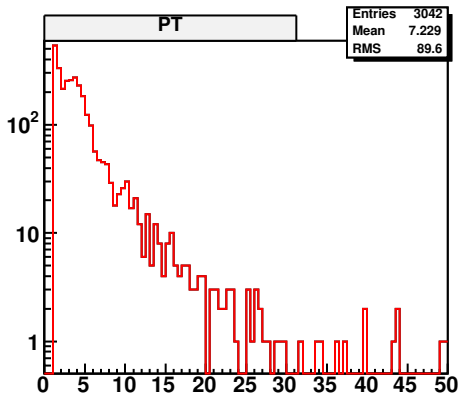

W HITS BC
Entries 2668
Mean 0.01012
RMS 0.2056

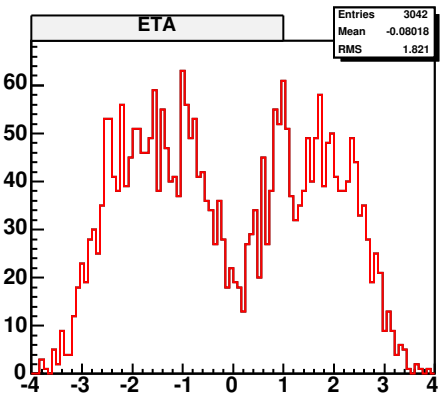

SCINT HITS A
Entries 2668
Mean 0.5723
RMS 0.4947

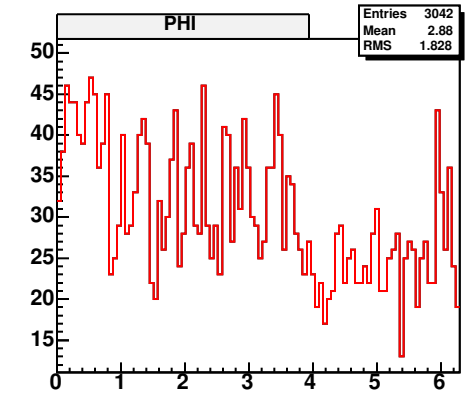

SCINT HITS BC
Entries 2668
Mean 0.002249
RMS 0.04737

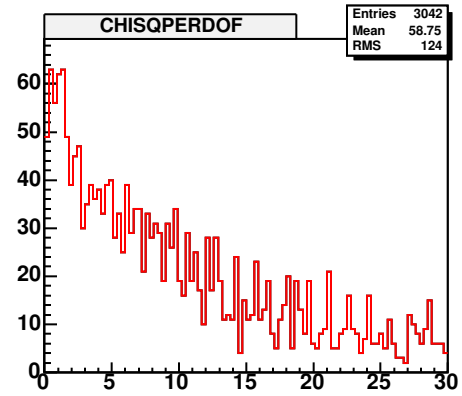
Muons (Astub)

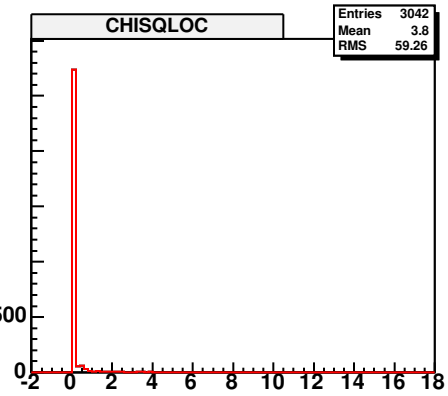


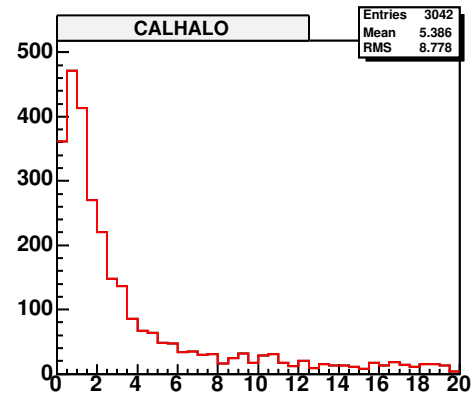


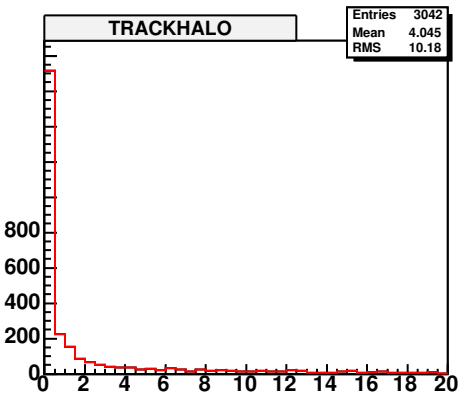


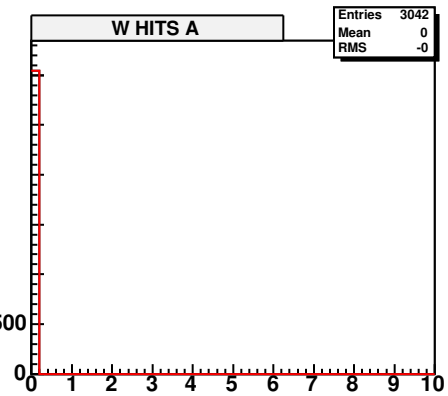


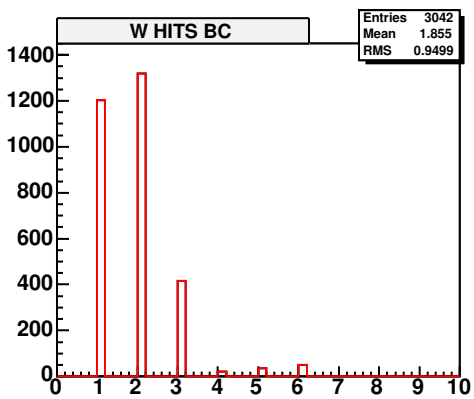


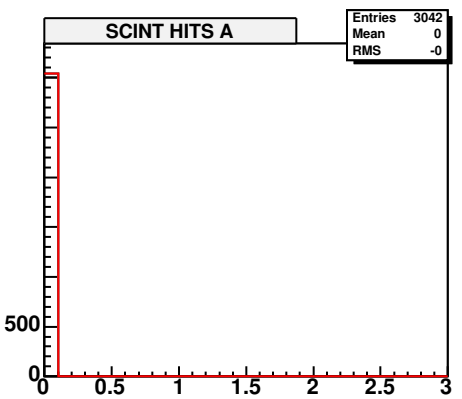


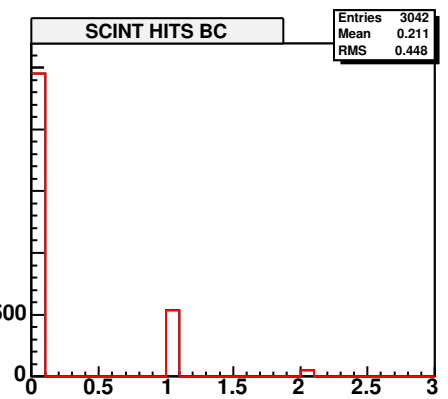




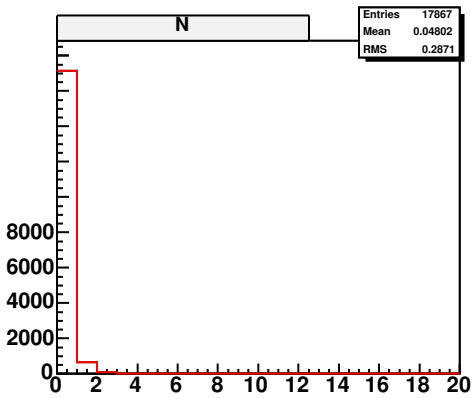


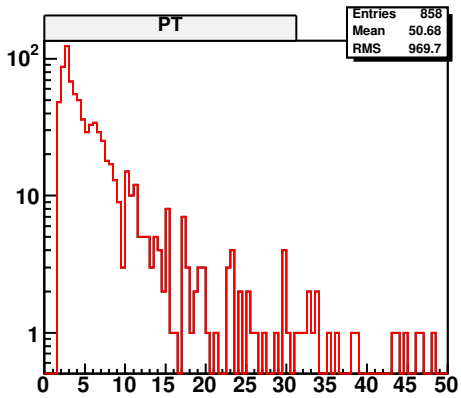


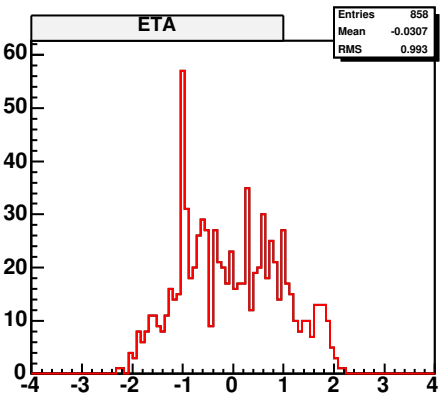


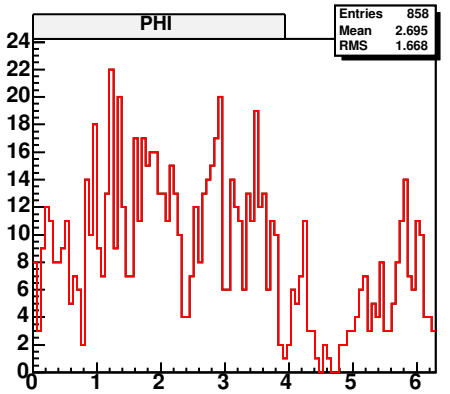


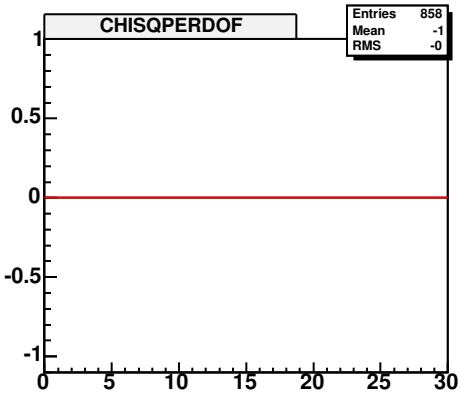
Muons (BCstub)

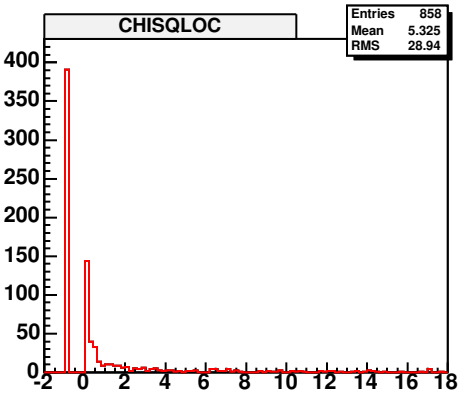


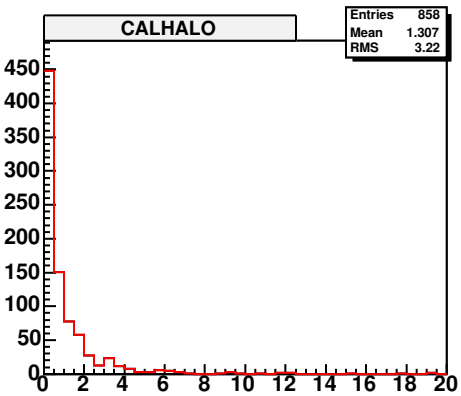


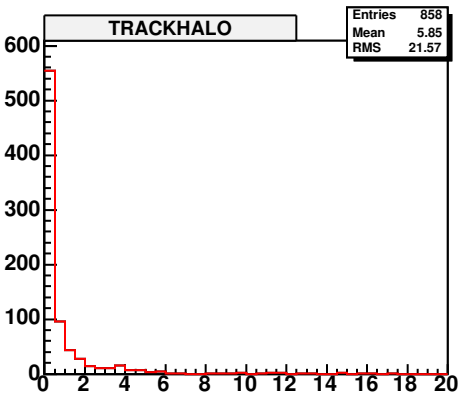


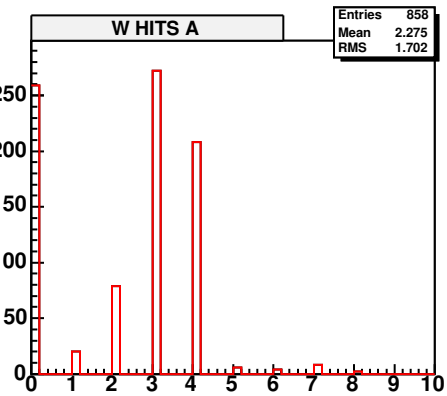


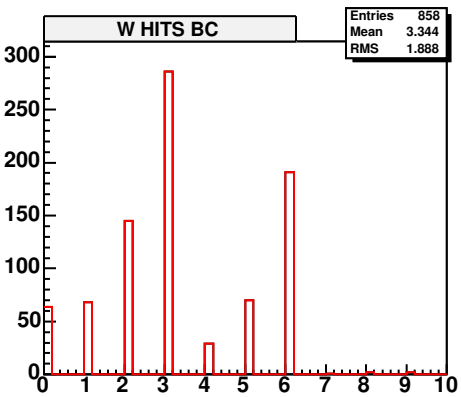


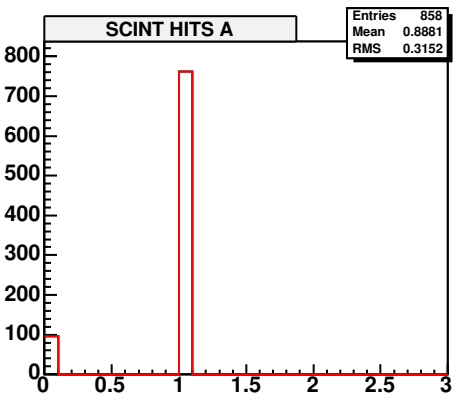


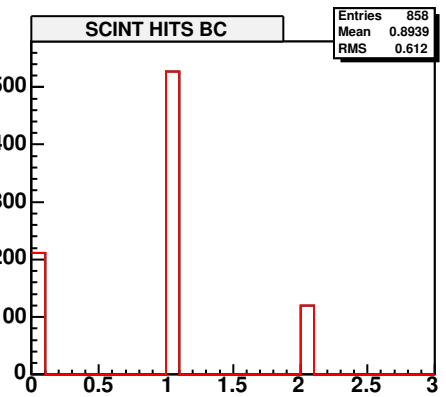




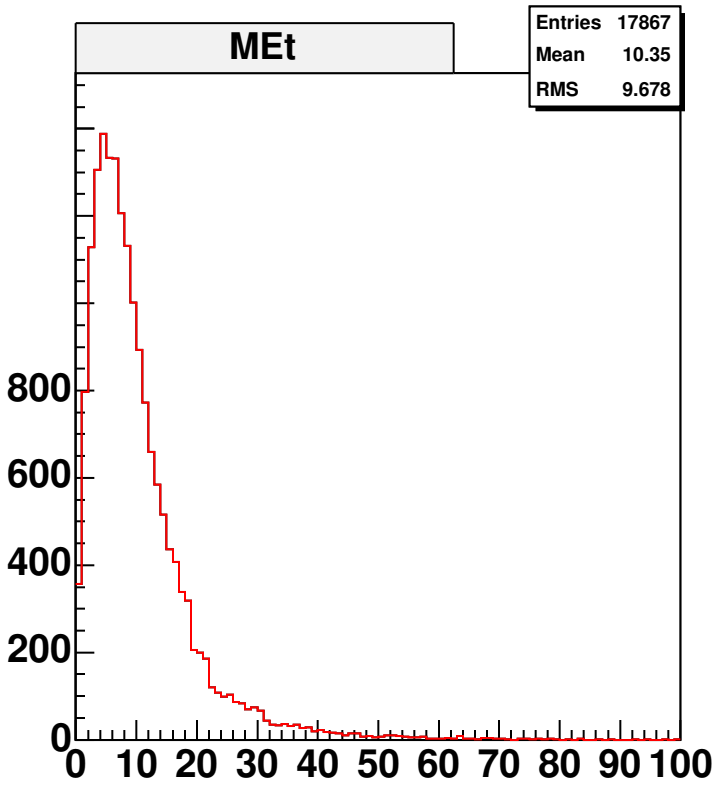


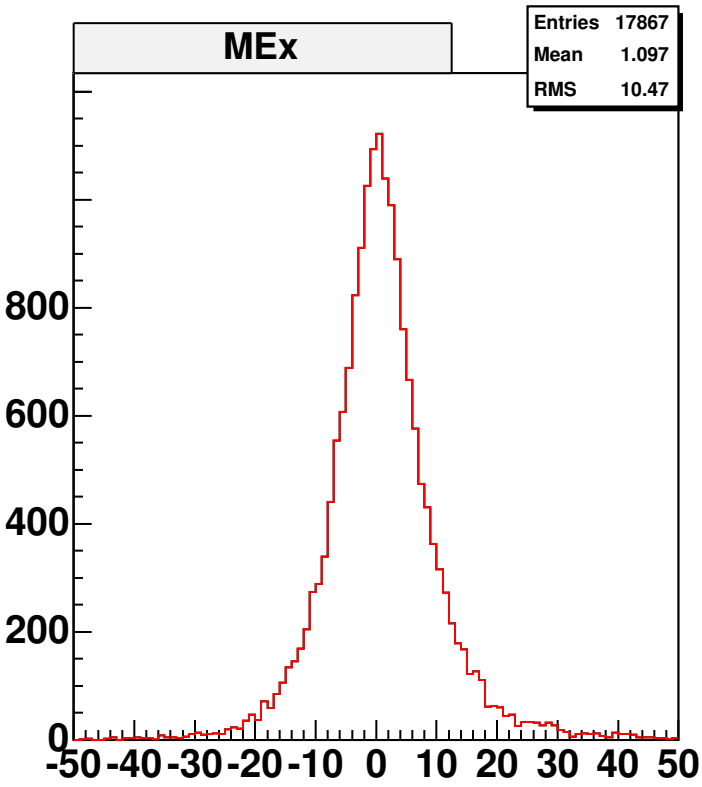


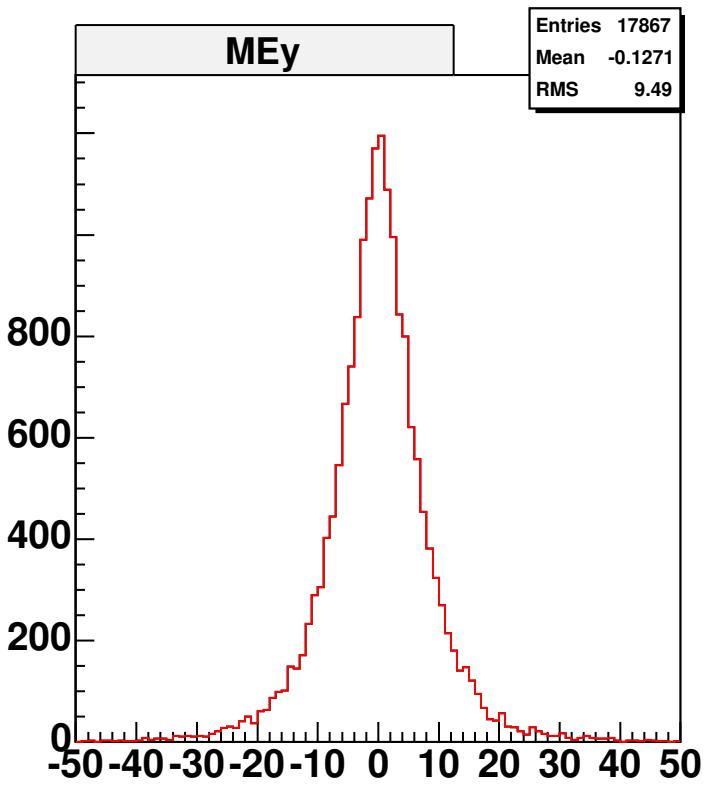




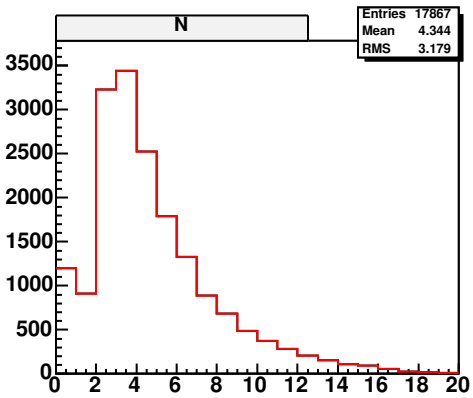
Muons (Unmatched)

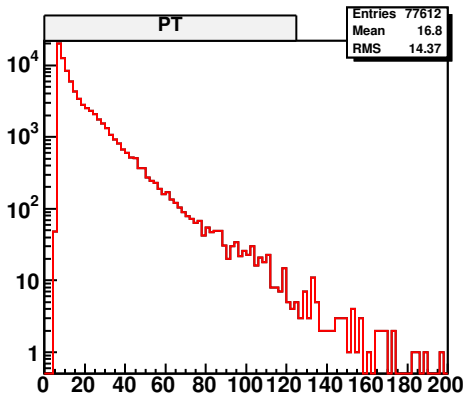

MEt
Entries 17867
Mean 10.35
RMS 9.678
800
600
400
200
0
0 10 20 30 40 50 60 70 80 90 100

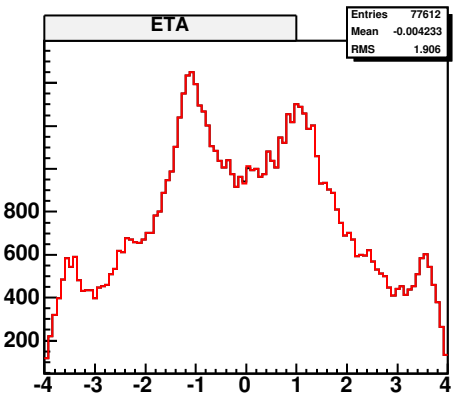

MEx
Entries 17867
Mean 1.097
RMS 10.47
800
600
400
200
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

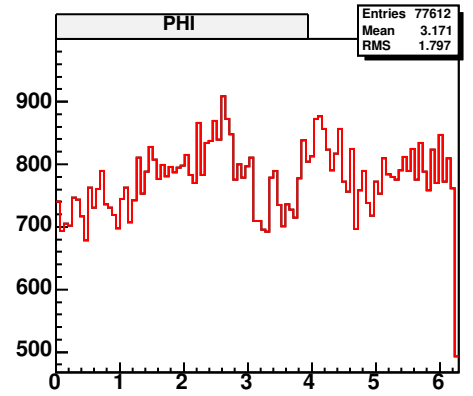

MEy
Entries 17867
Mean -0.1271
RMS 9.49
800
600
400
200
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

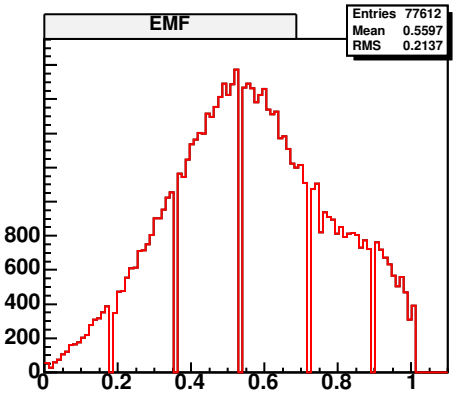
Met (No cuts)

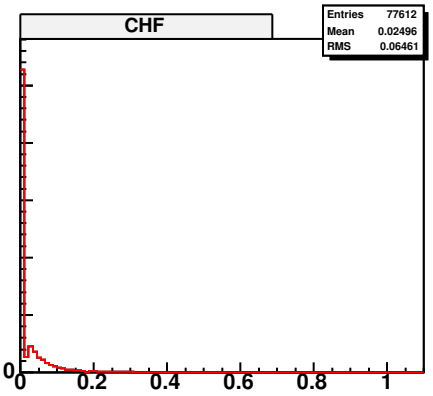


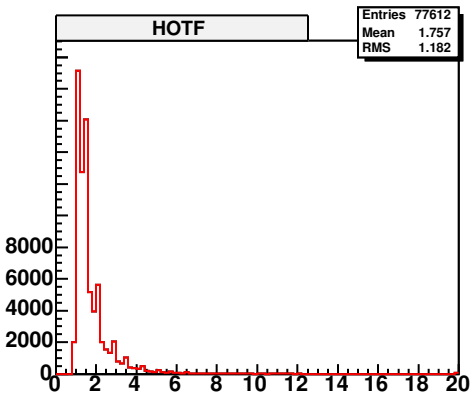


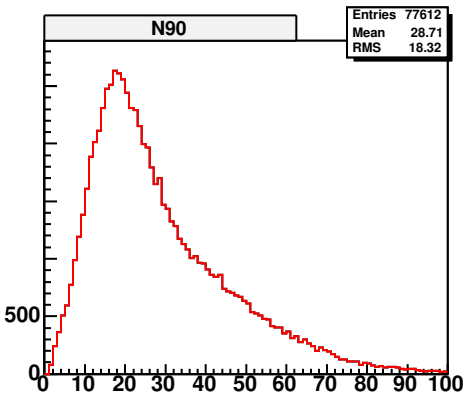


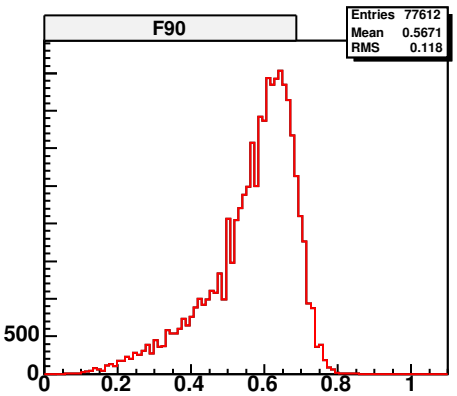


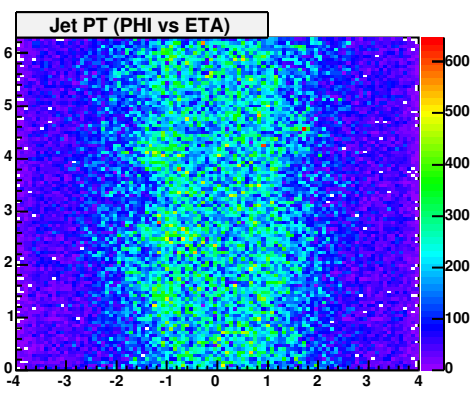




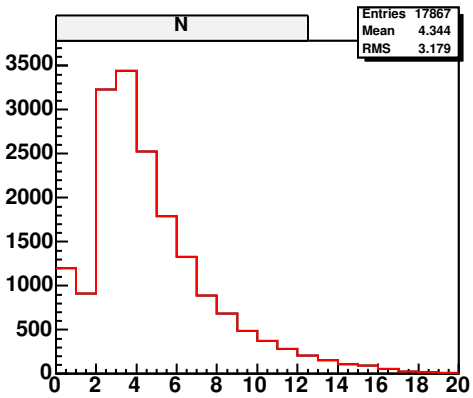


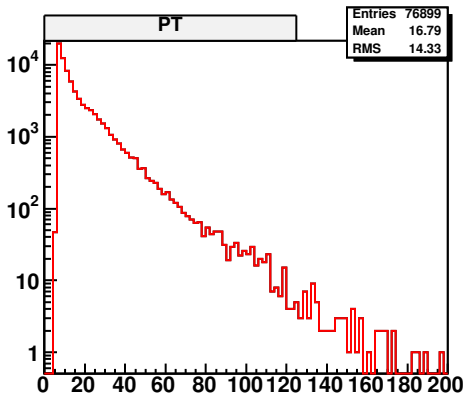


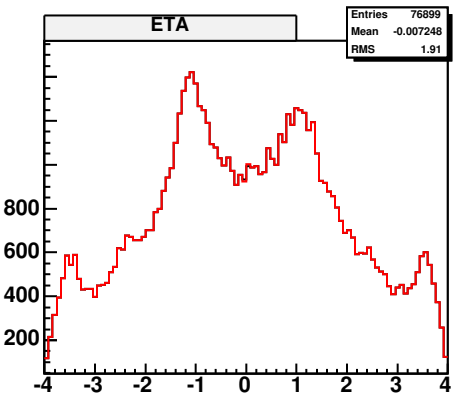


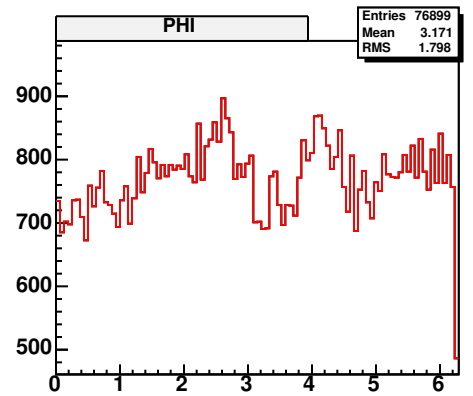


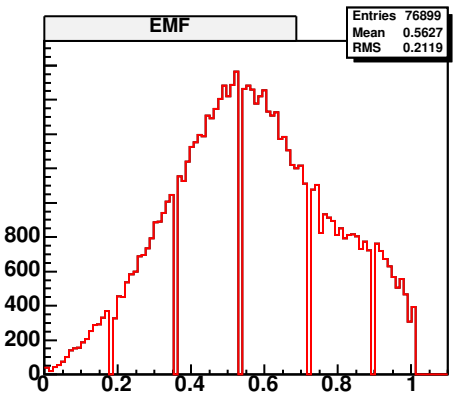
Jets (Cone R 0.7 (no cuts))

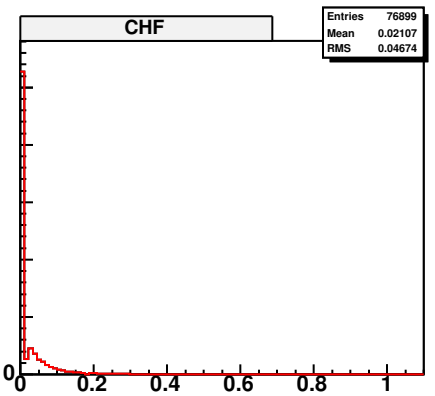


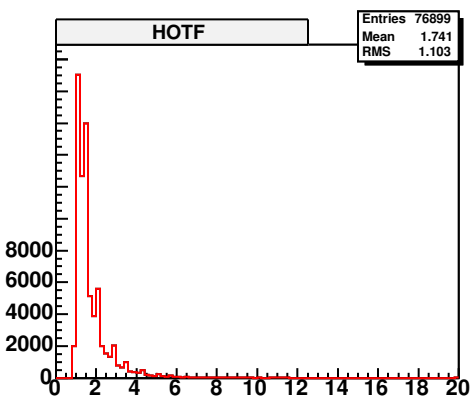


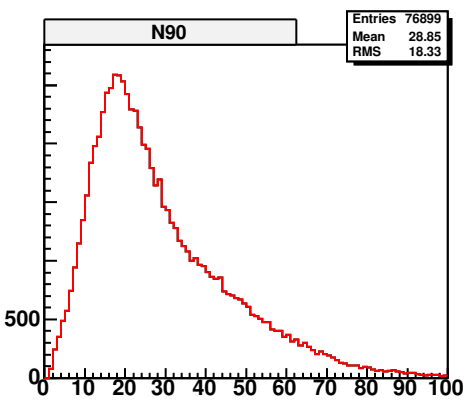


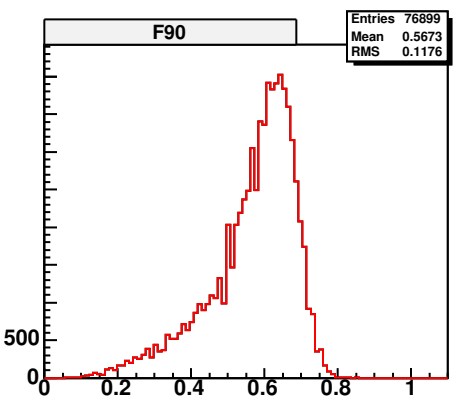


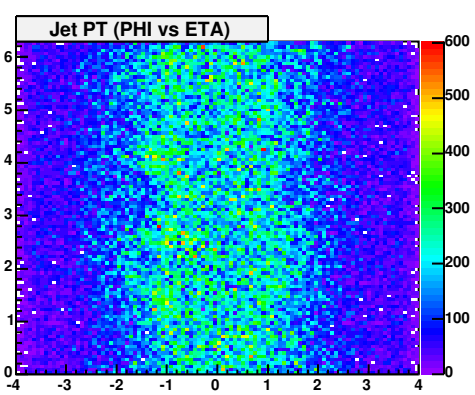




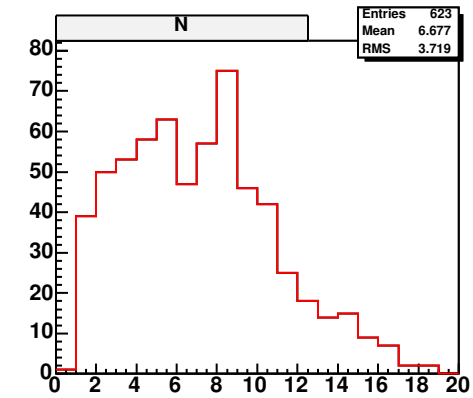


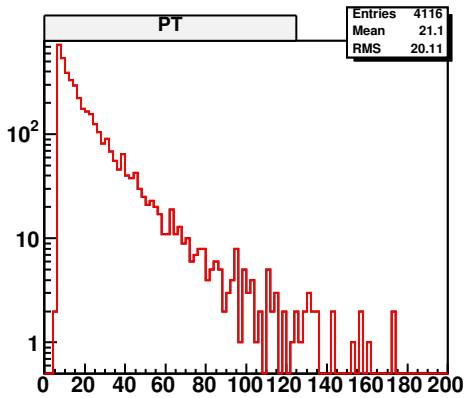


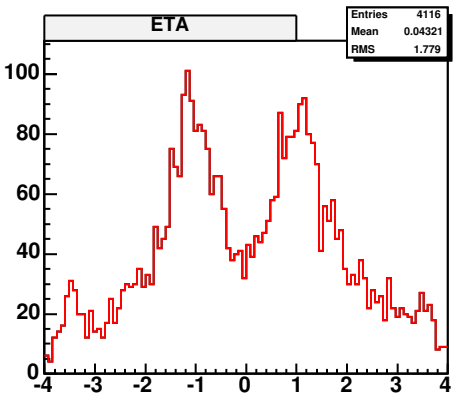


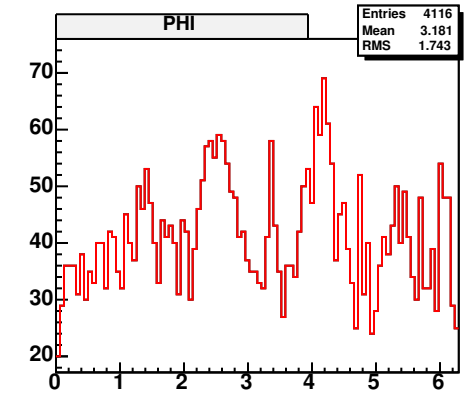


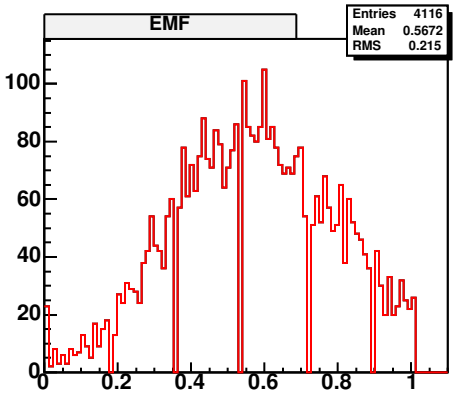
Jets (Cone R 0.7 (standard cuts))

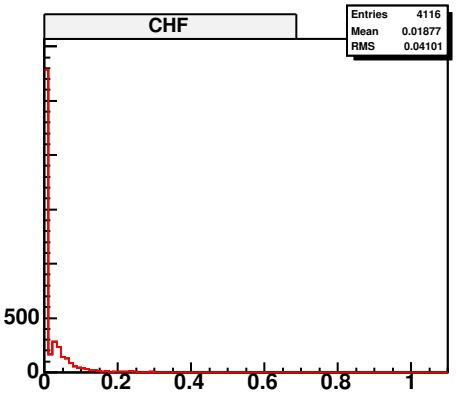


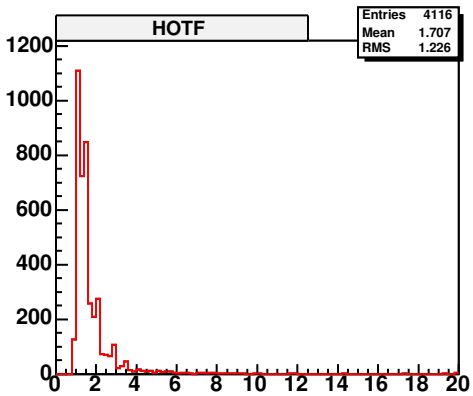


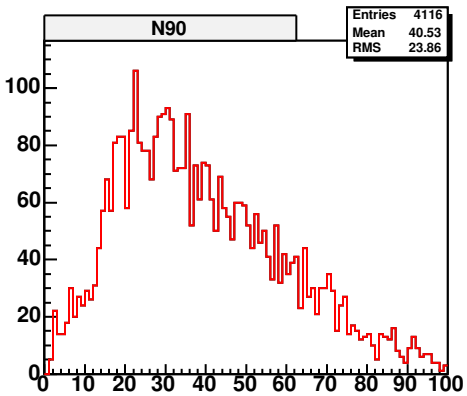


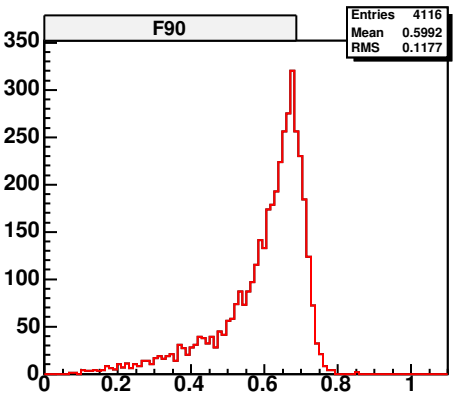


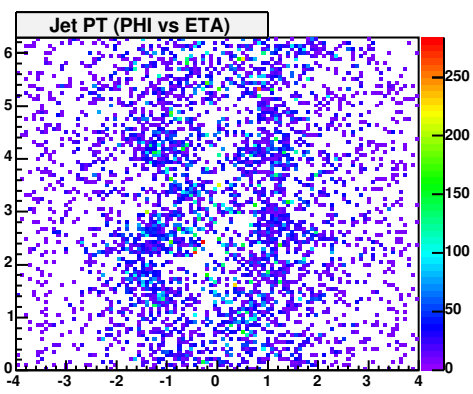




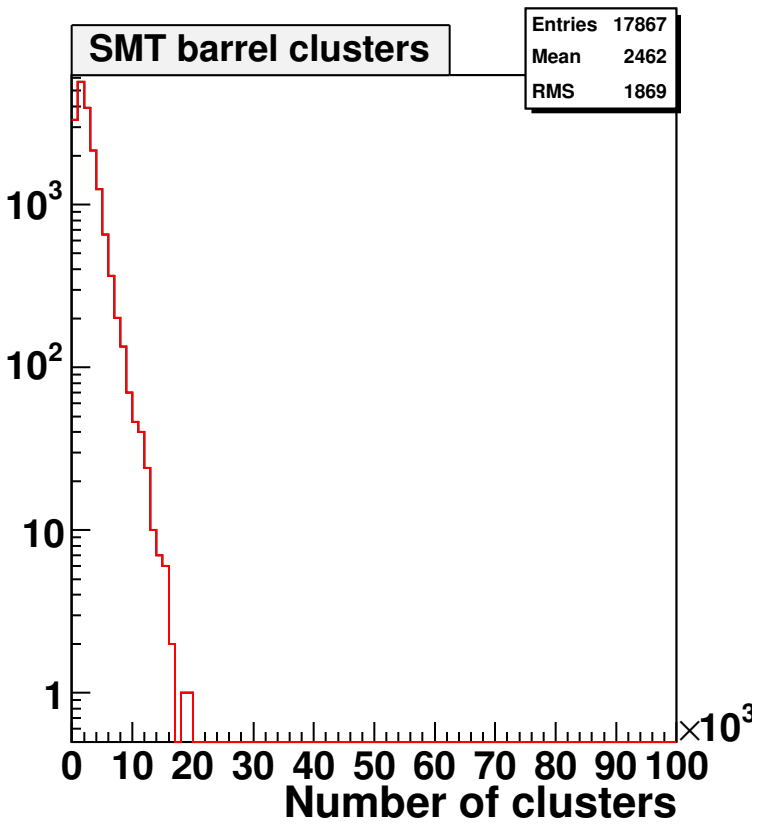


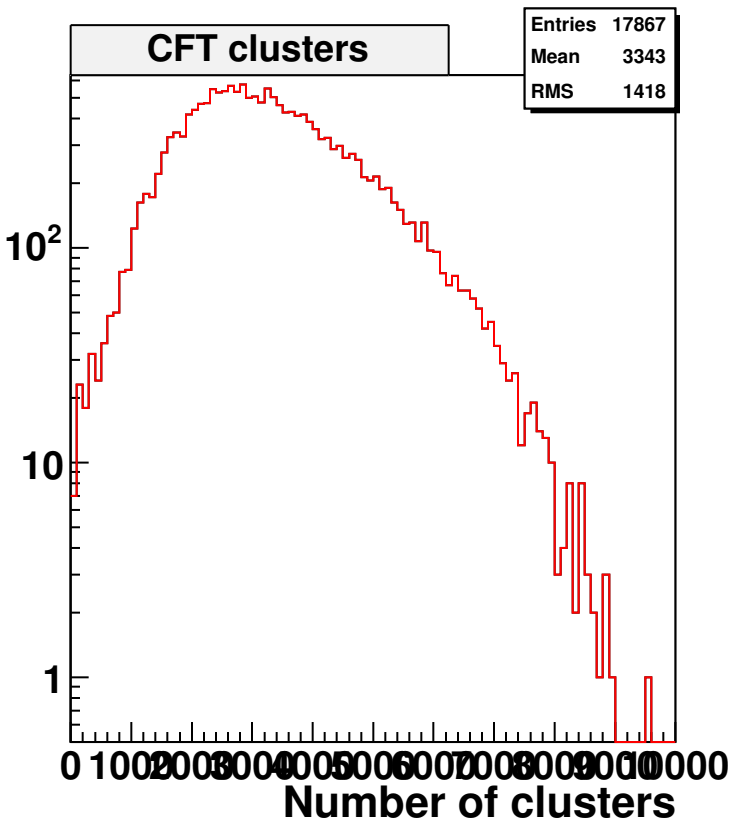


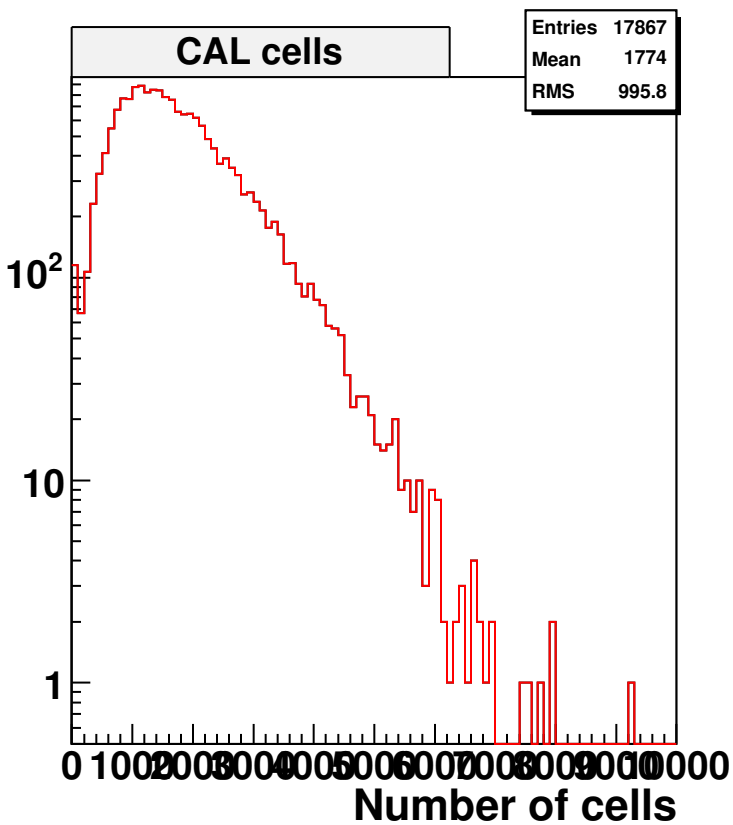


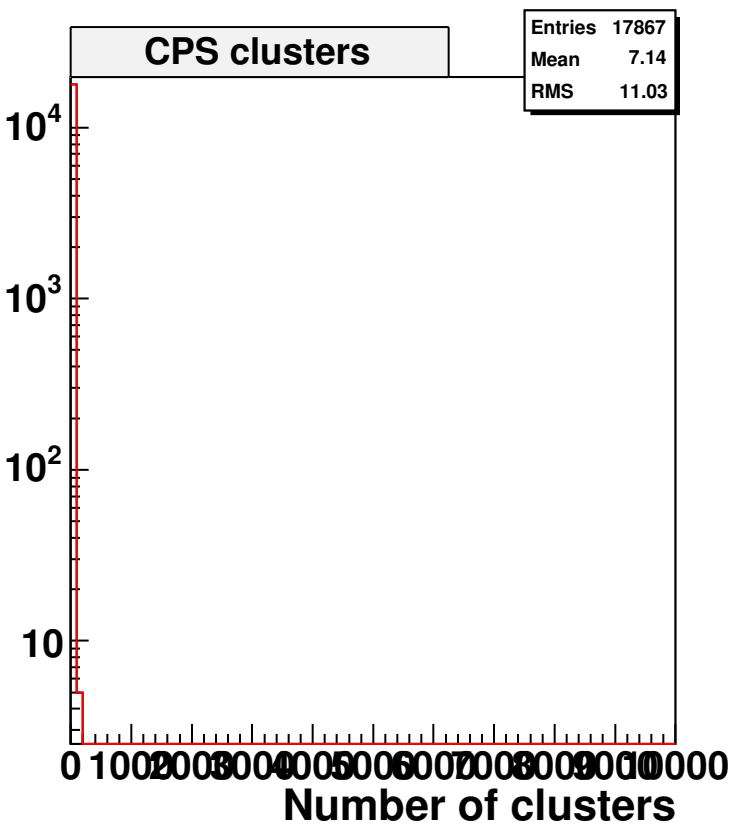


Jets (Cone R 0.7 (standard cuts, MET>30))

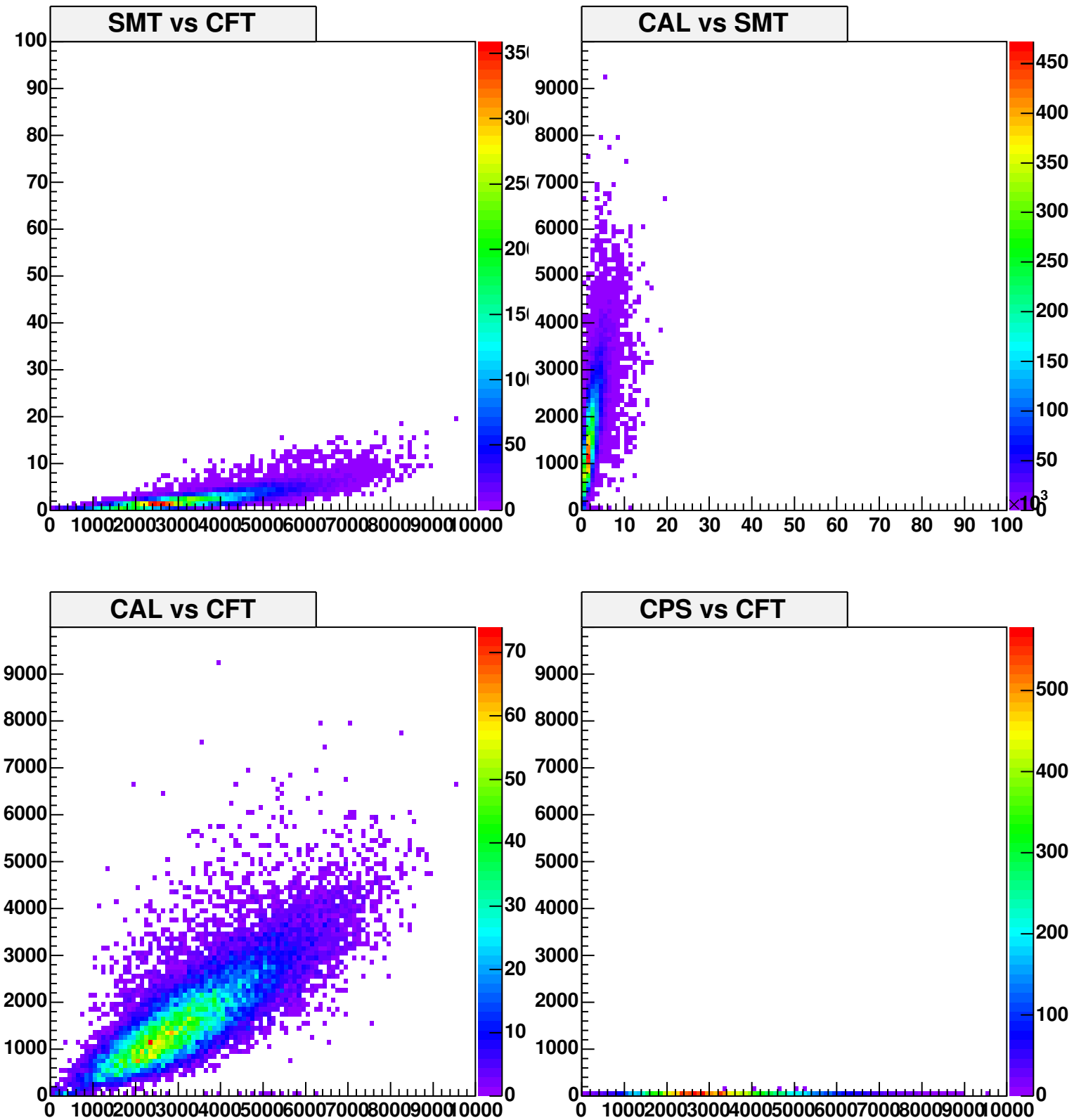




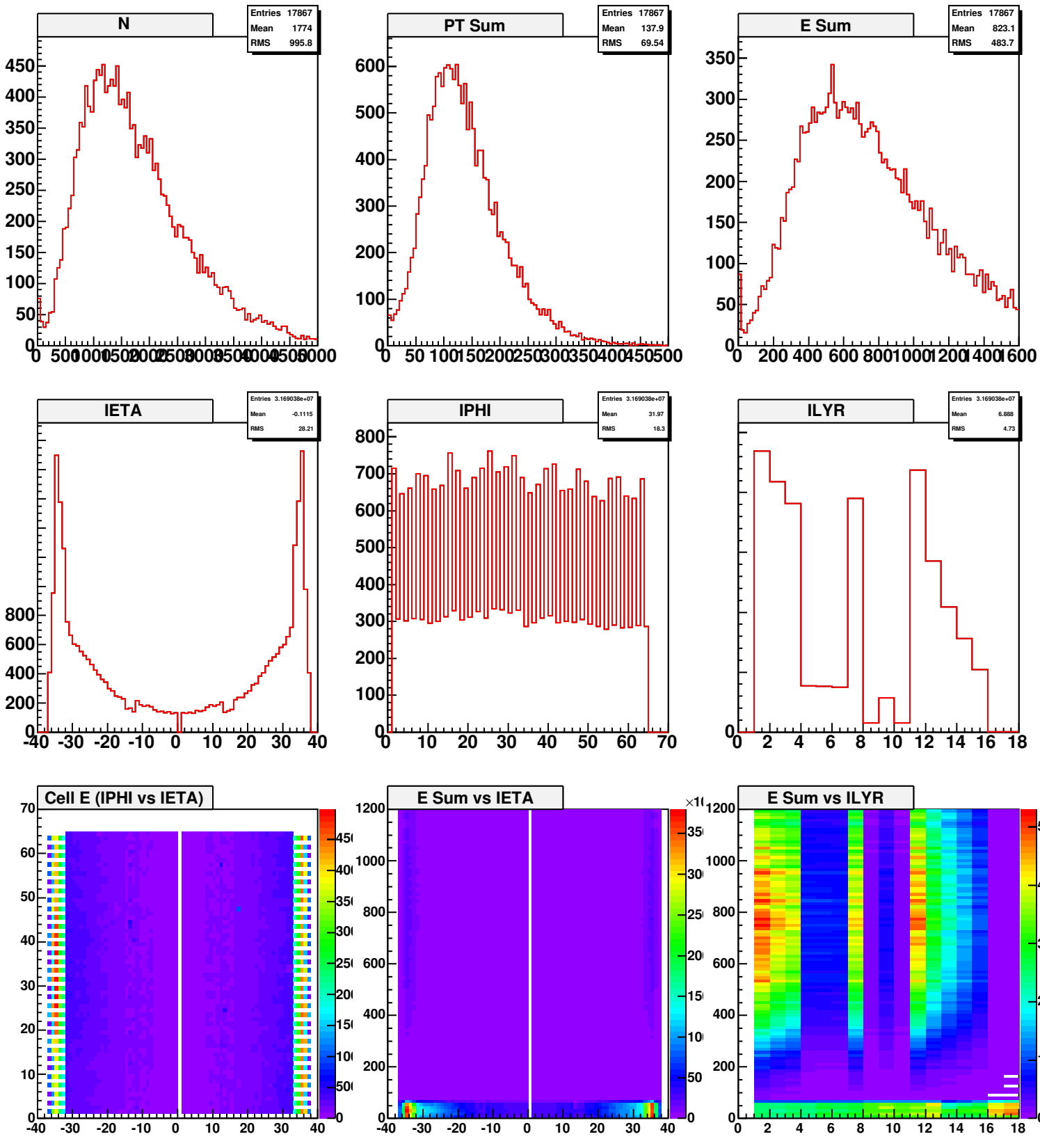




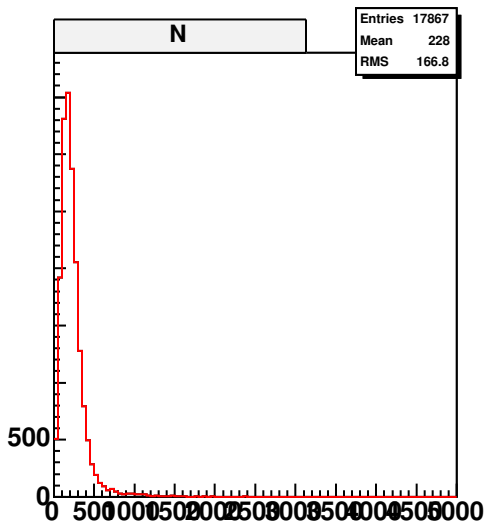
Detector Occupancy (Detector)

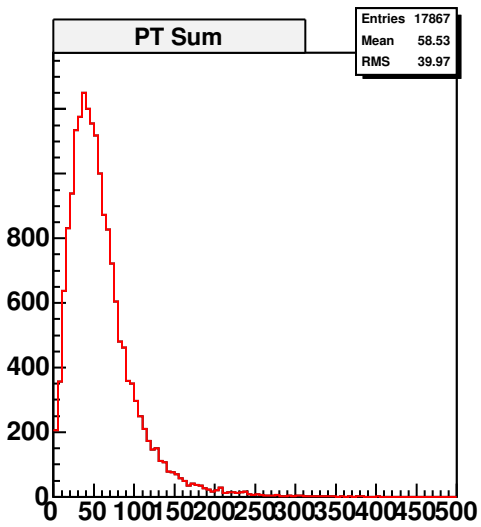


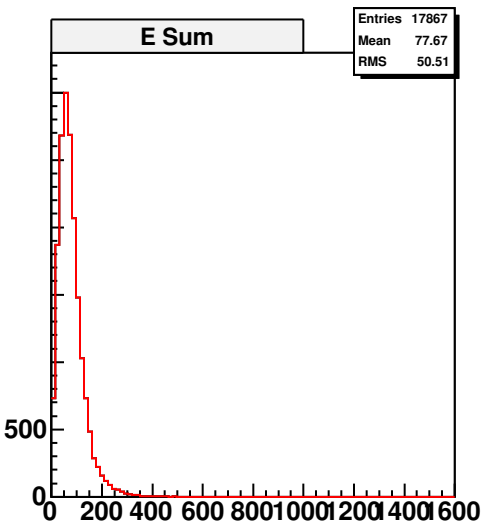
Detector Occupancy (Detector)

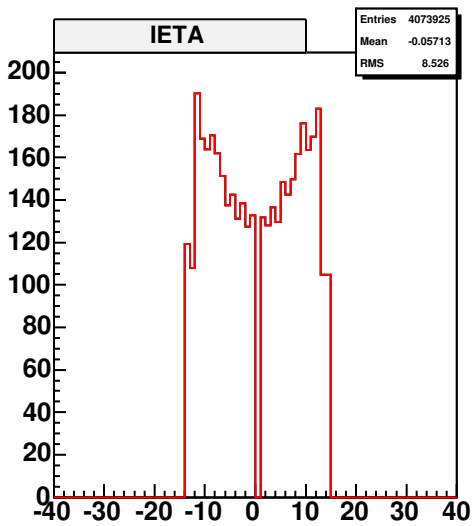


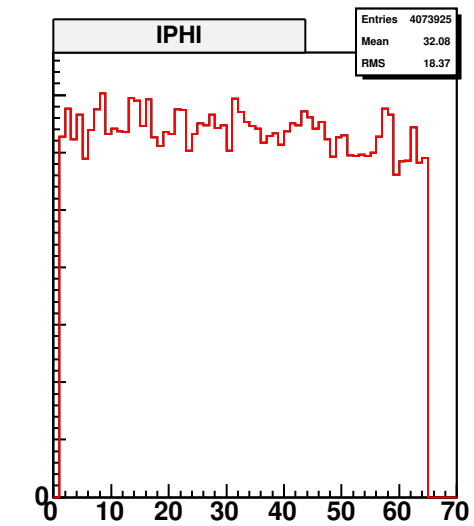
Calorimeter (All cells)

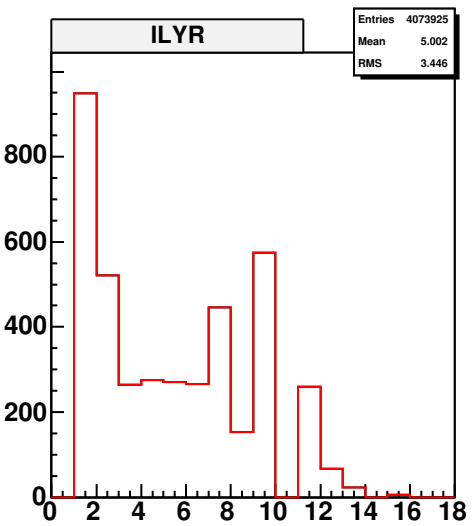


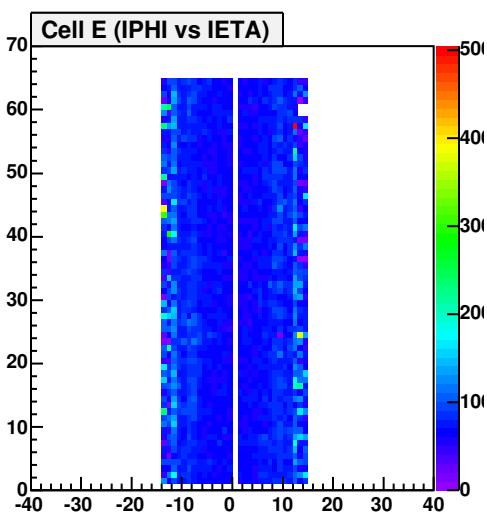


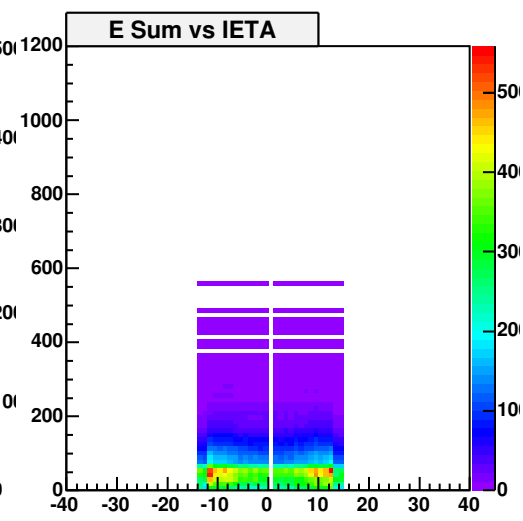


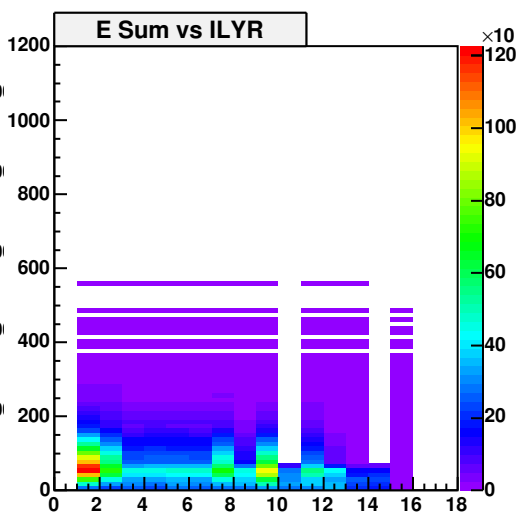




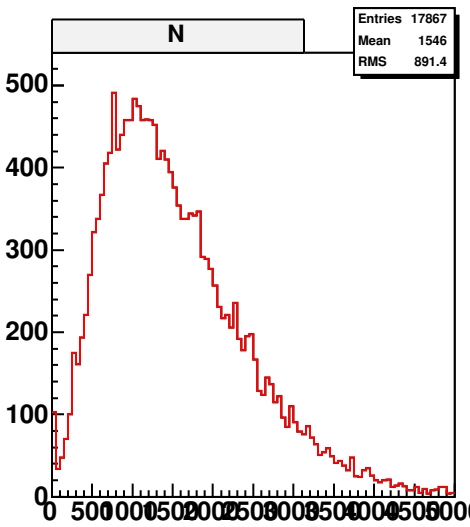


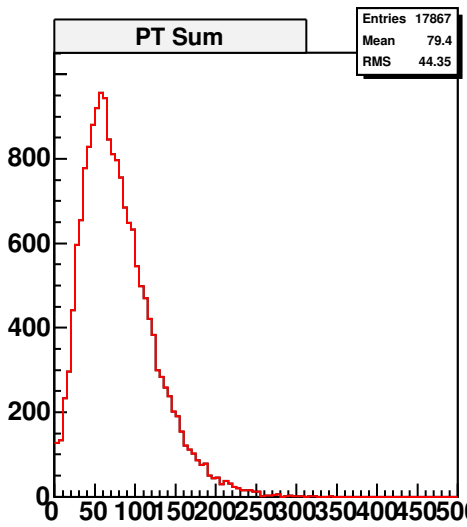


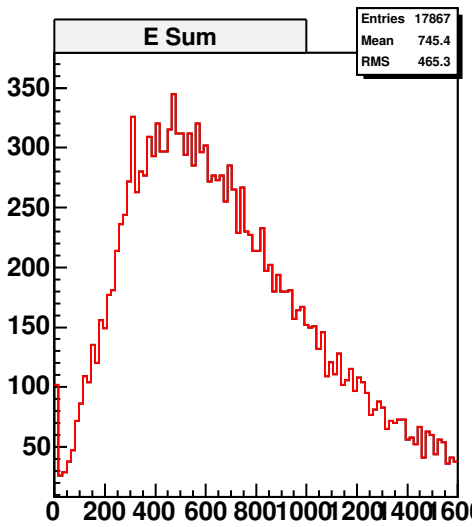


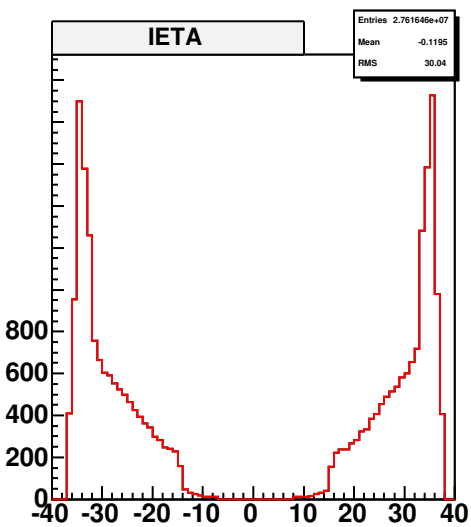


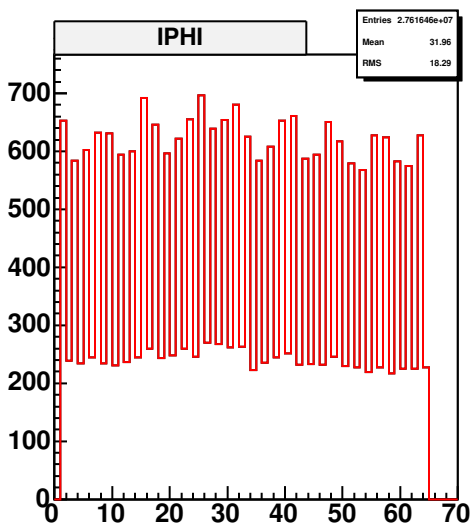
Calorimeter (All CC cells)

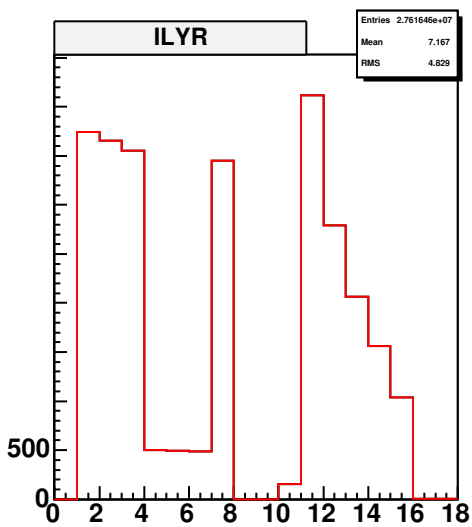


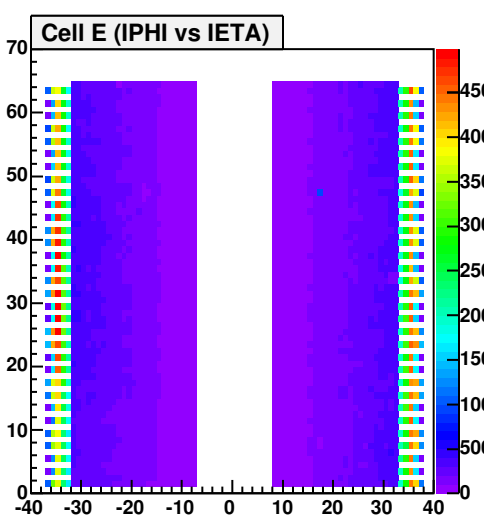


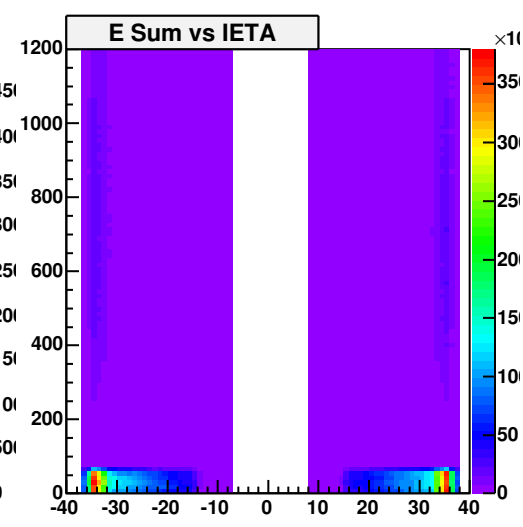


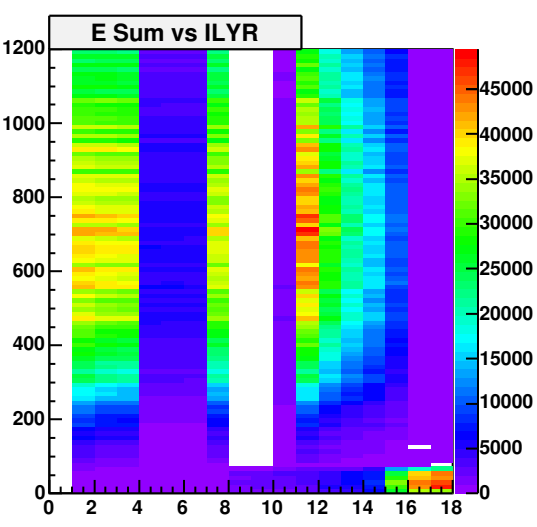




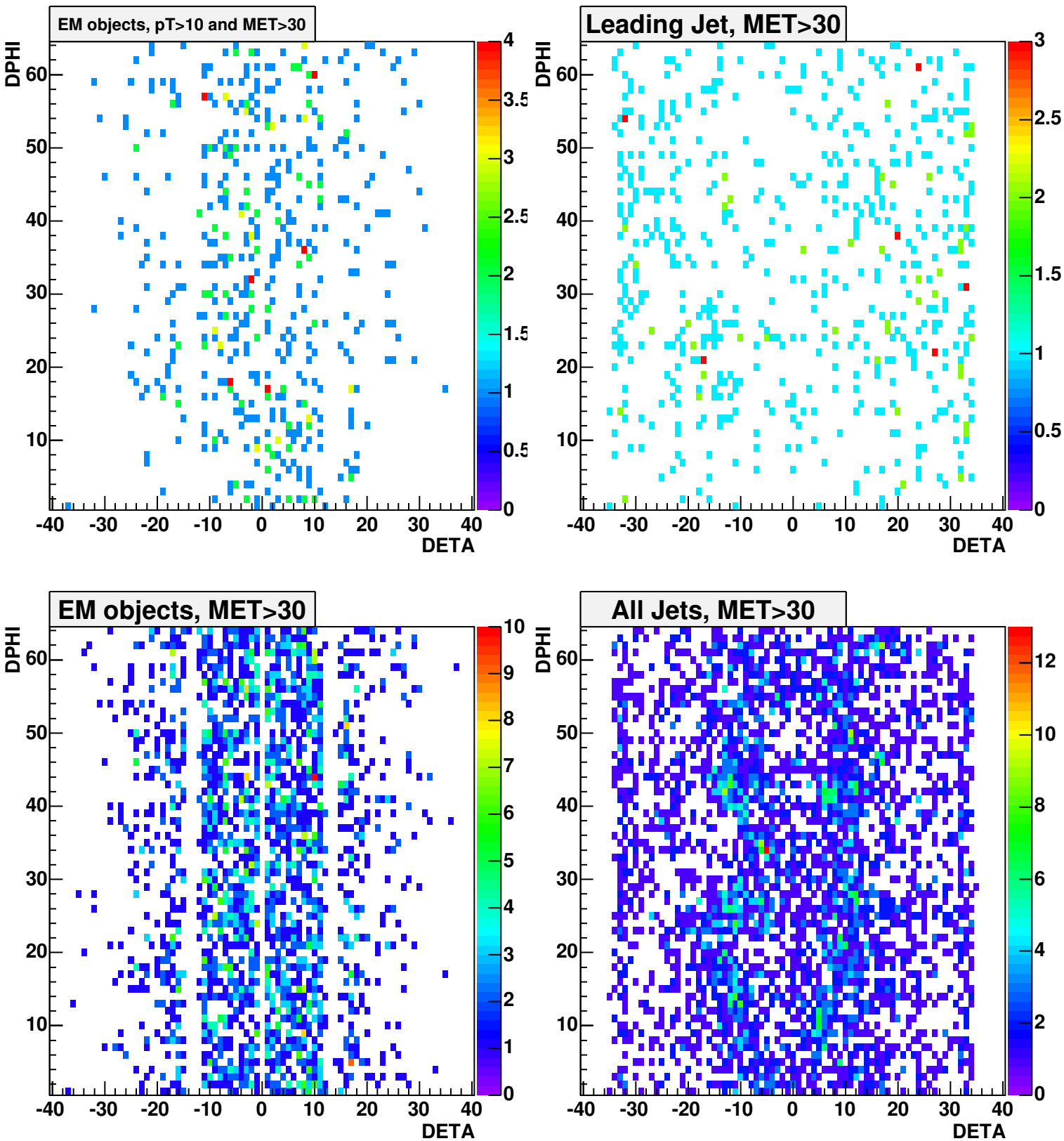




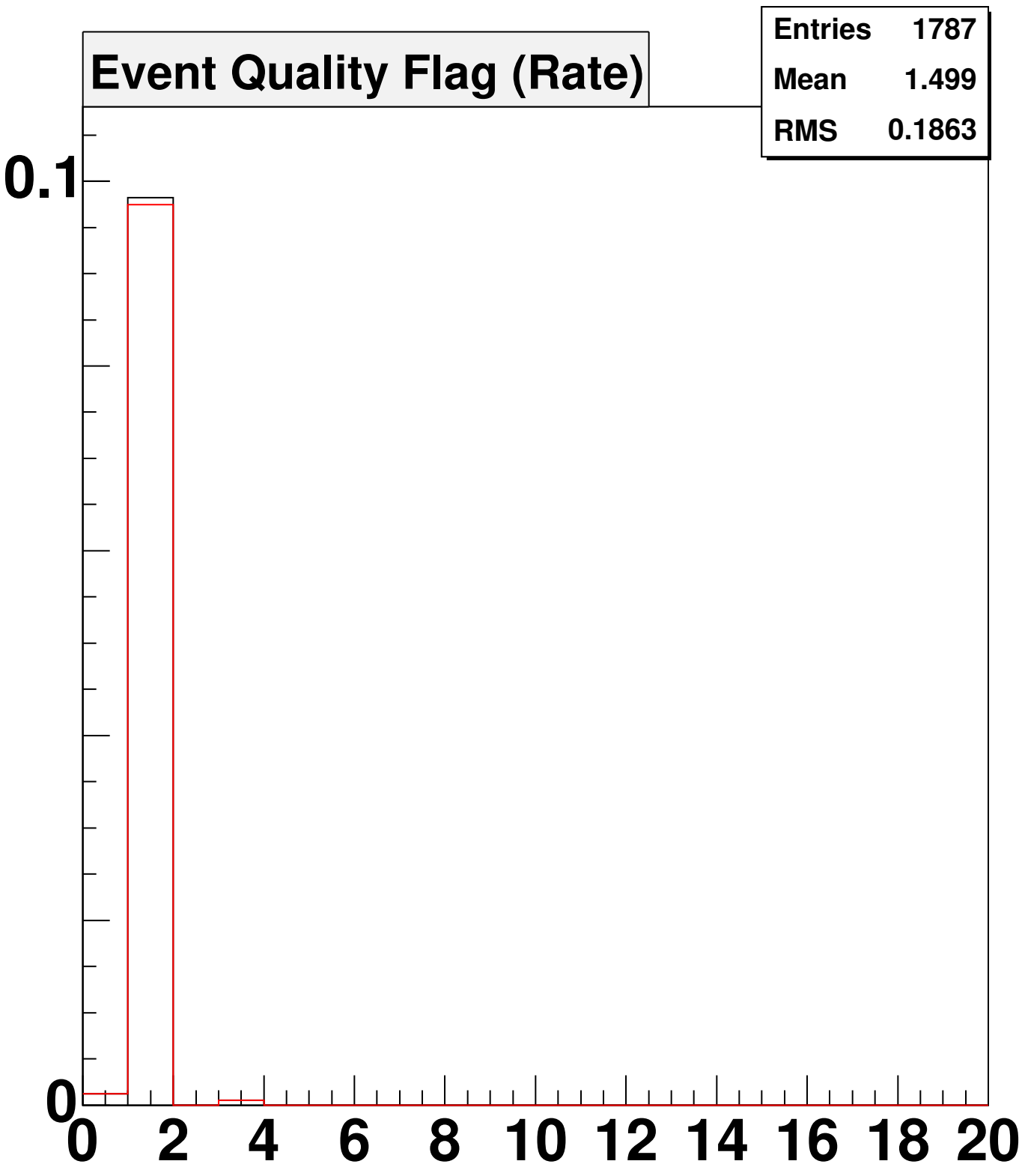


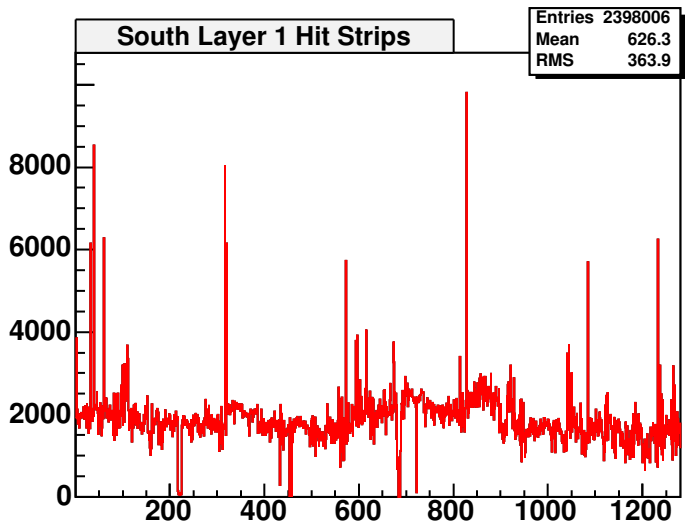


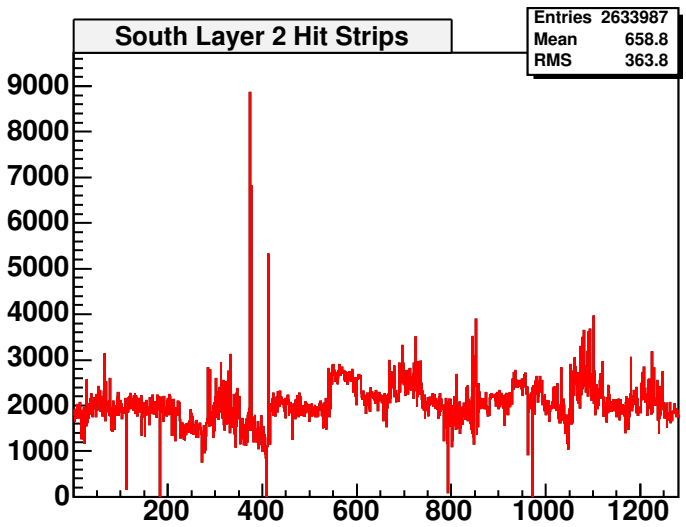
Calorimeter (All EC cells)

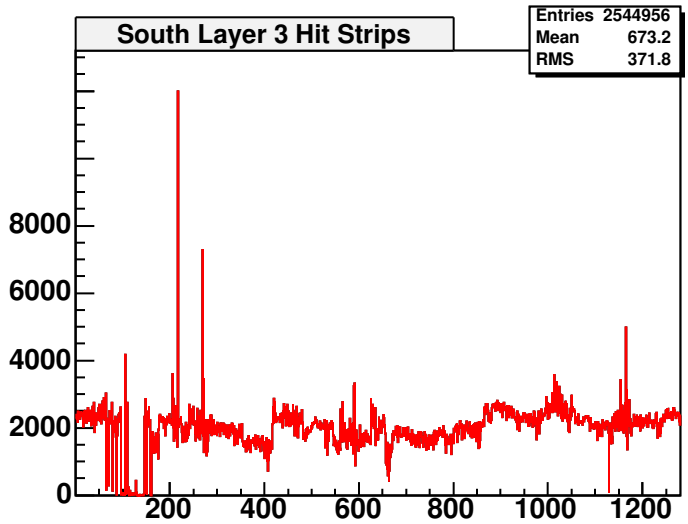


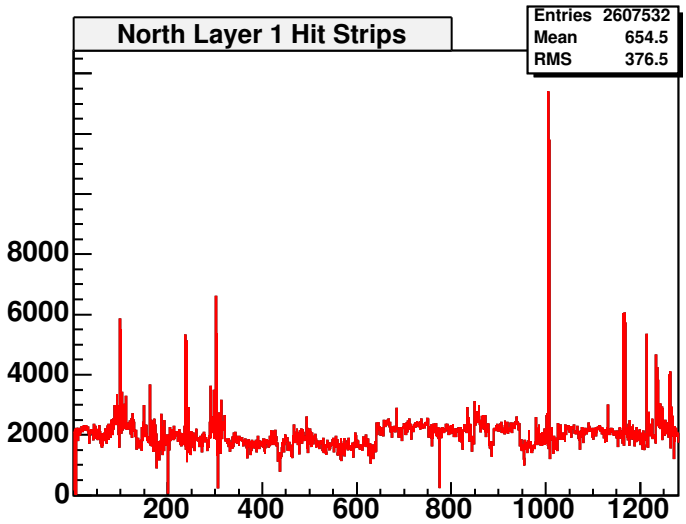
Cal Objects with MET>30 (All cells)

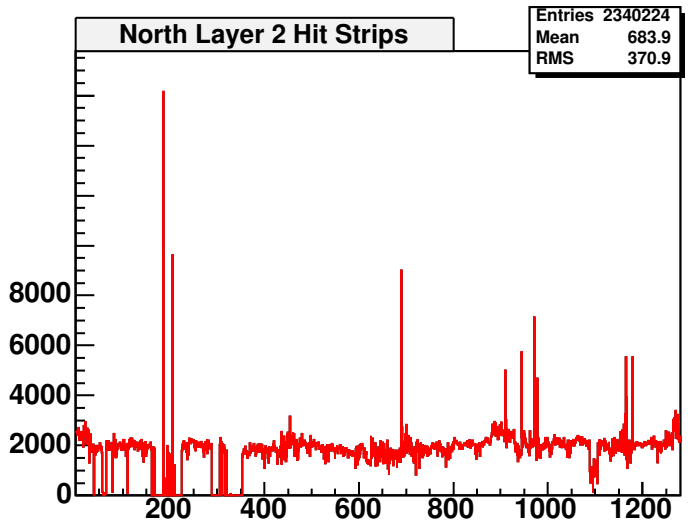

Event Quality Flag (Rate)
Entries 1787
Mean 1.499
RMS 0.1863
0.1
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

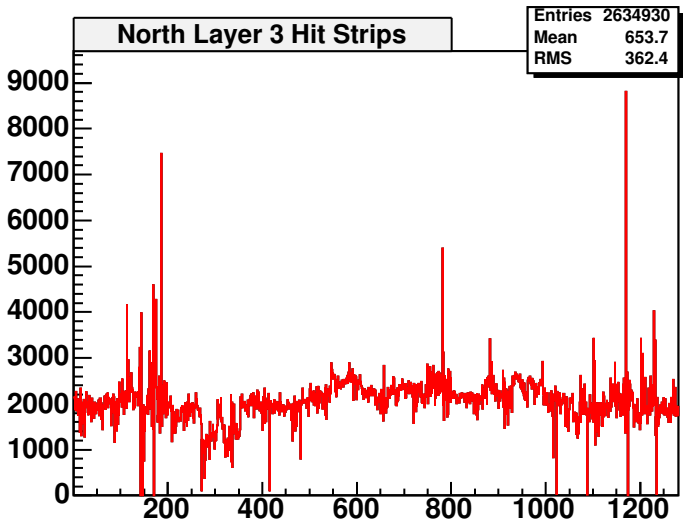




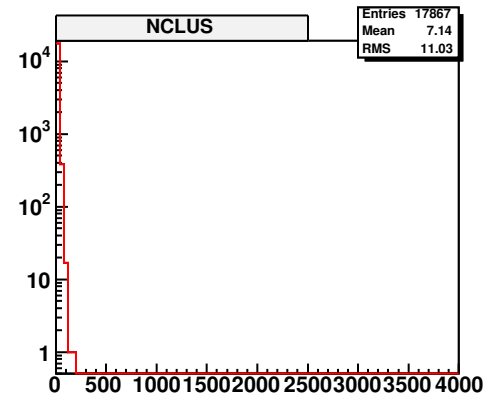


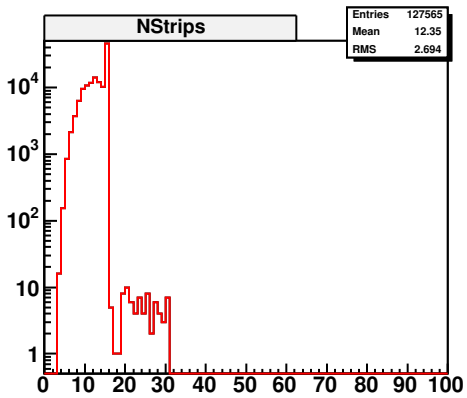


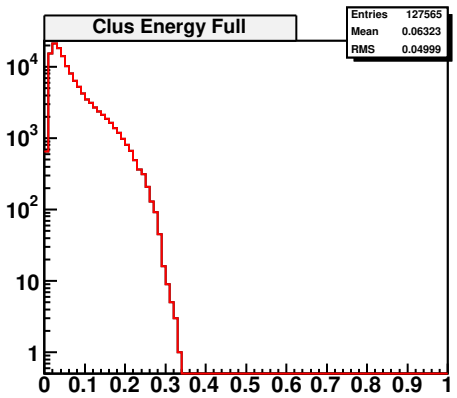


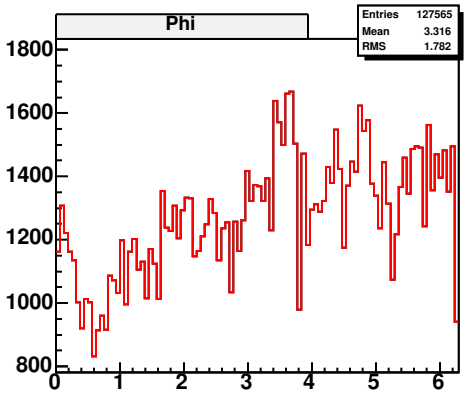


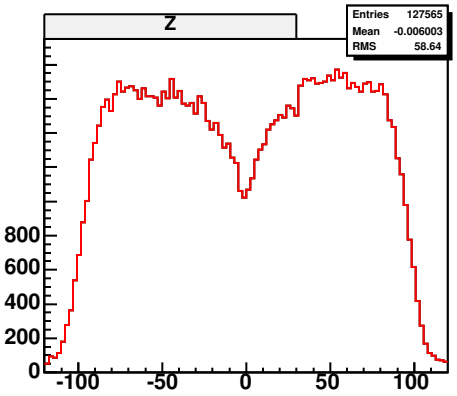
CPS Hit Strips (All Clusters)

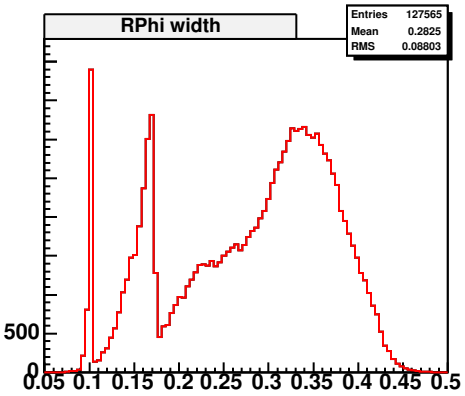


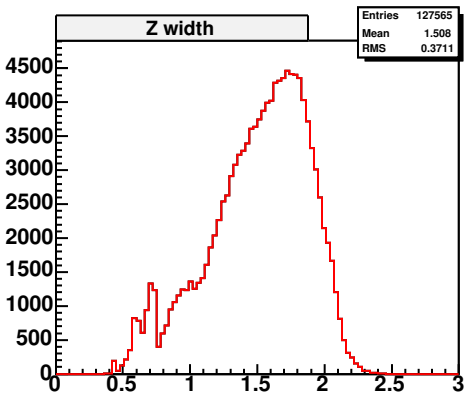


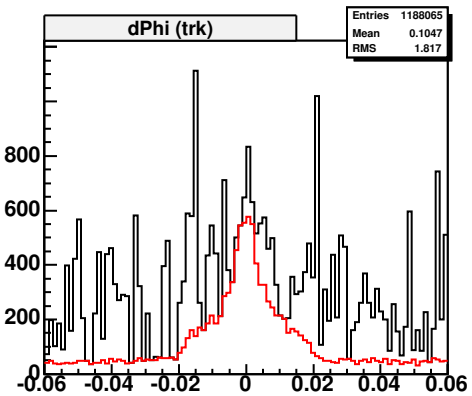


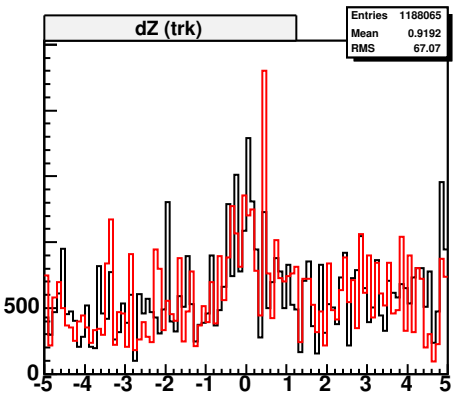


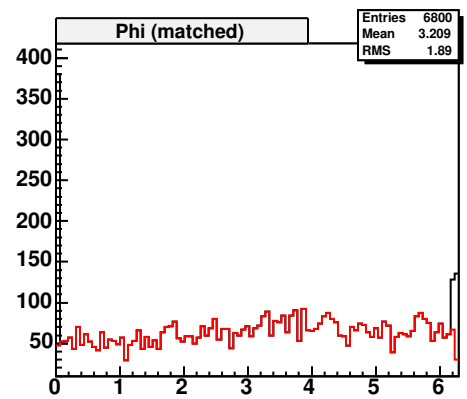


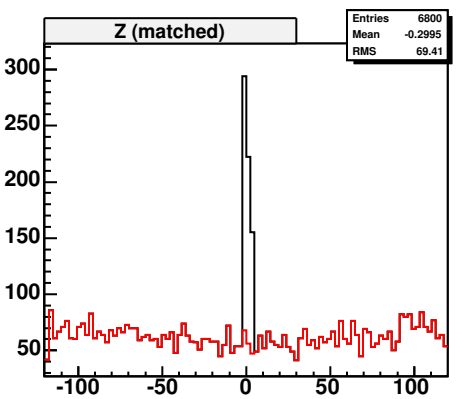




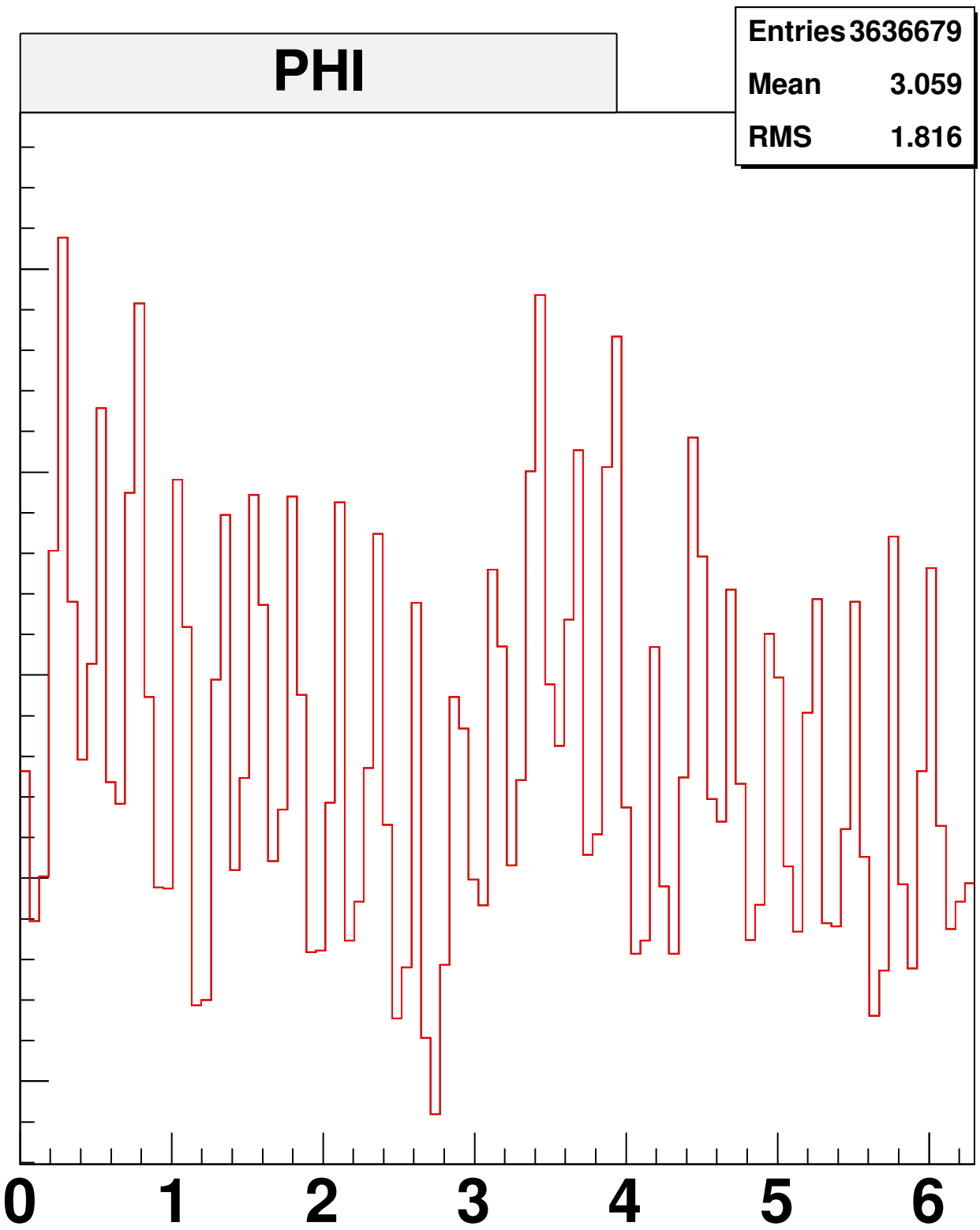


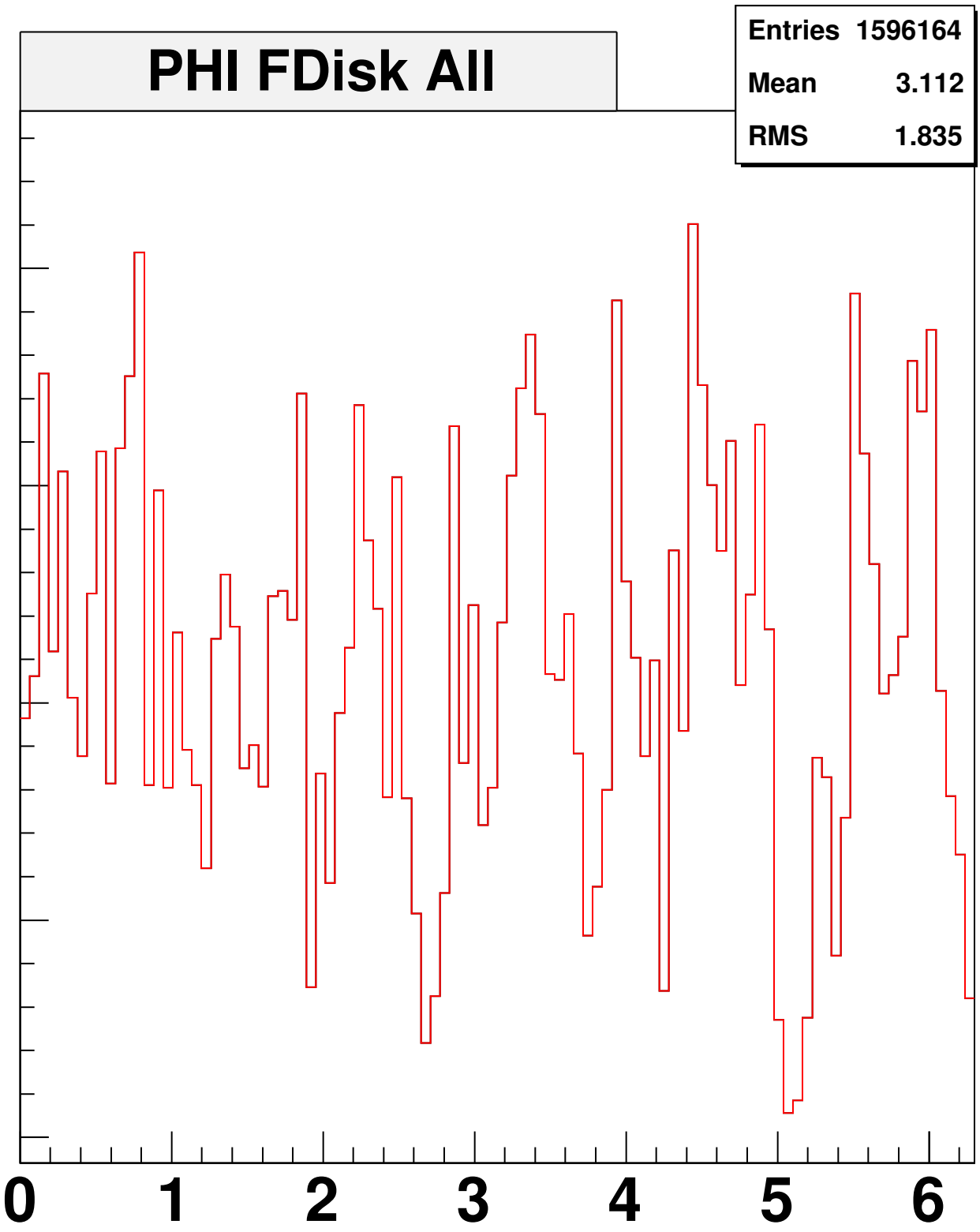


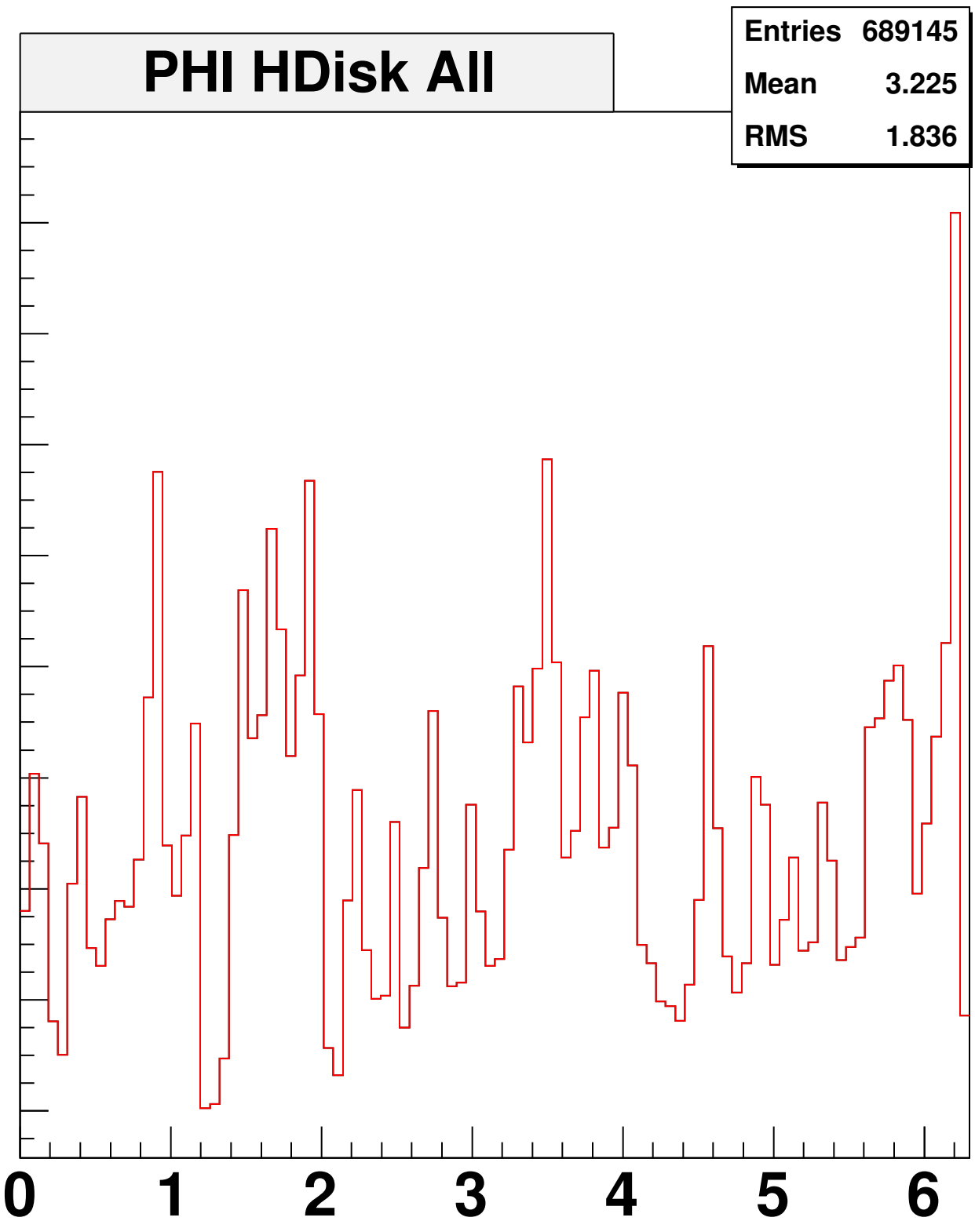


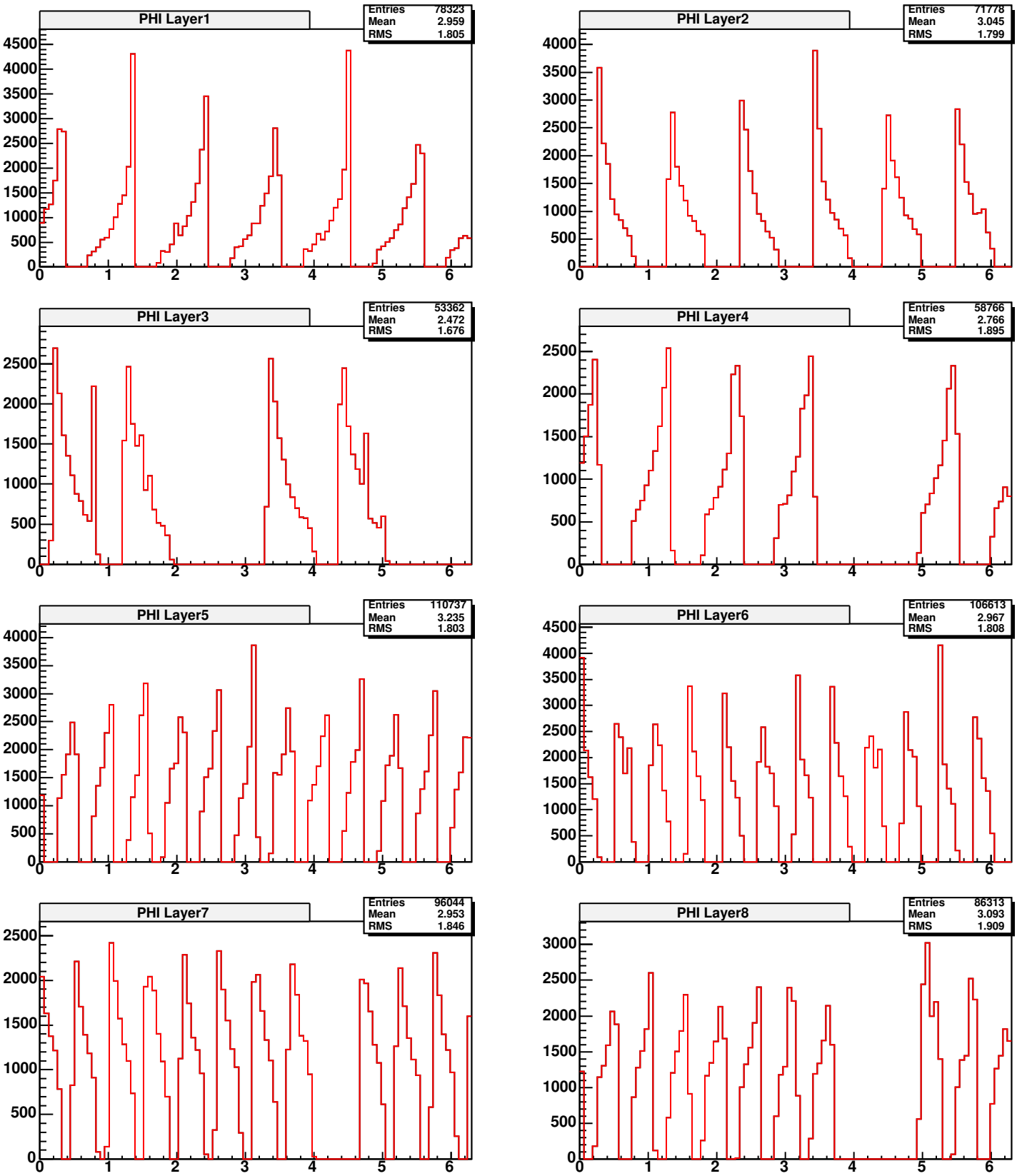


CPS Clusters (All Clusters)

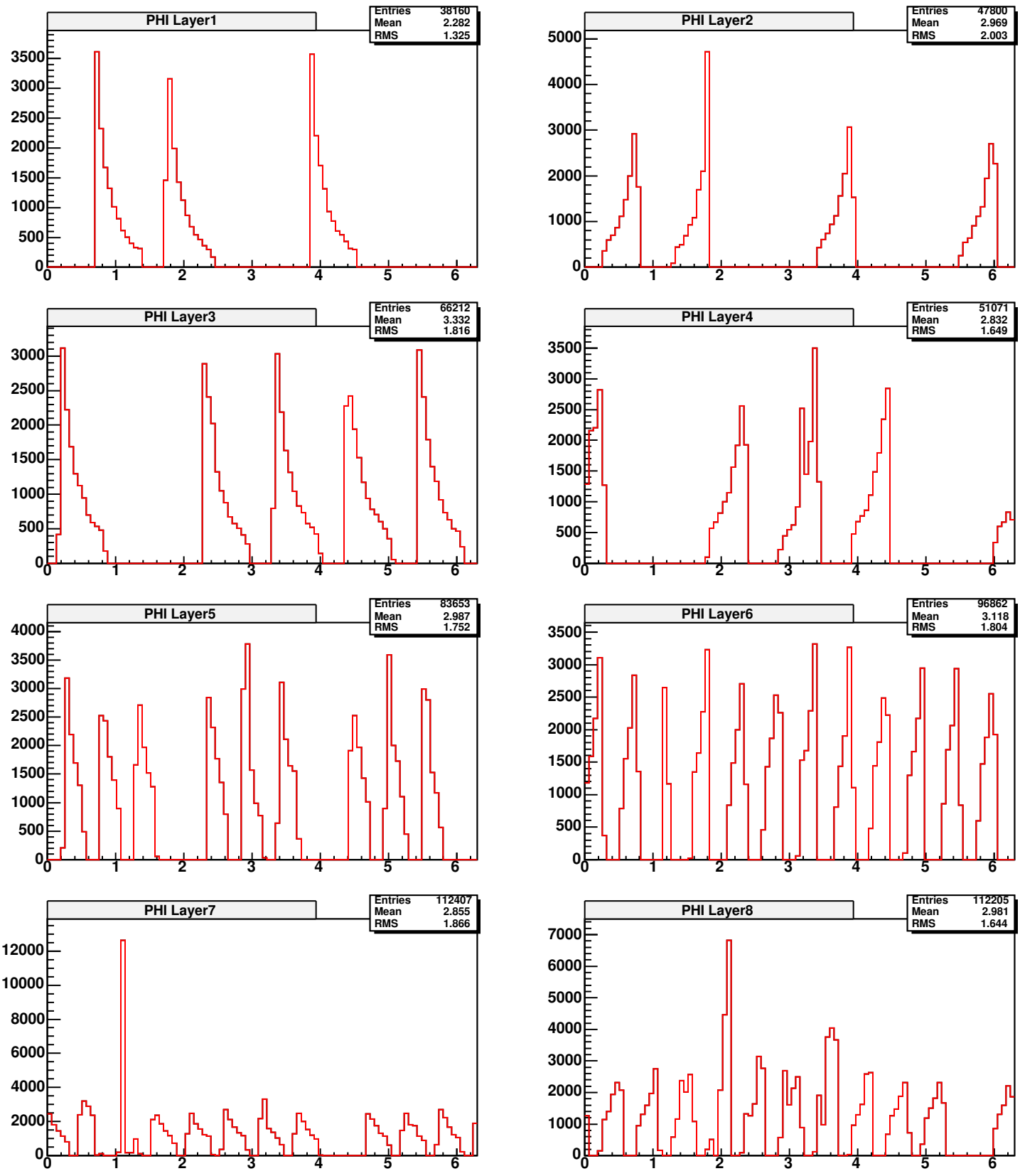

PHI
Entries 3636679
Mean 3.059
RMS 1.816
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 1596164
Mean 3.112
RMS 1.835
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

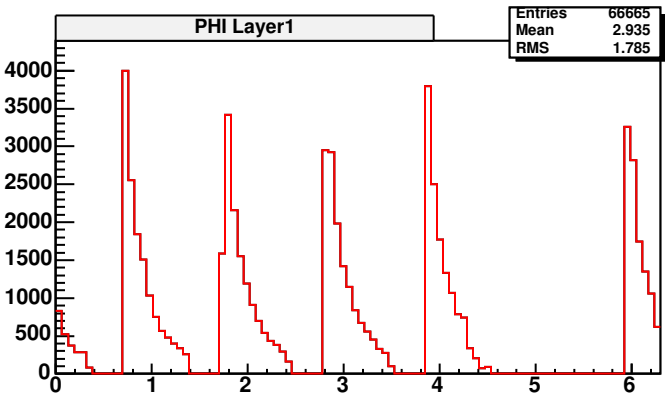

PHI HDisk All
Entries 689145
Mean 3.225
RMS 1.836
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

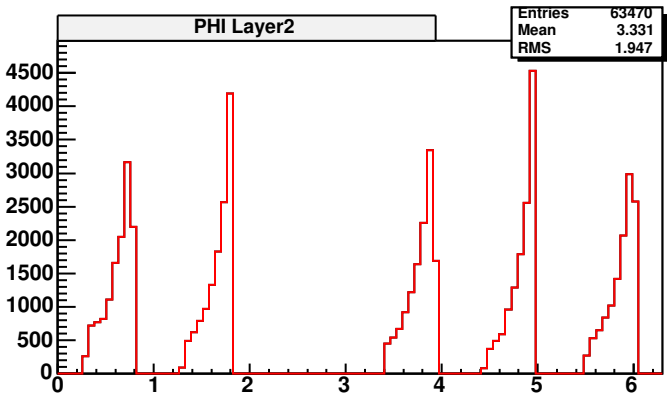


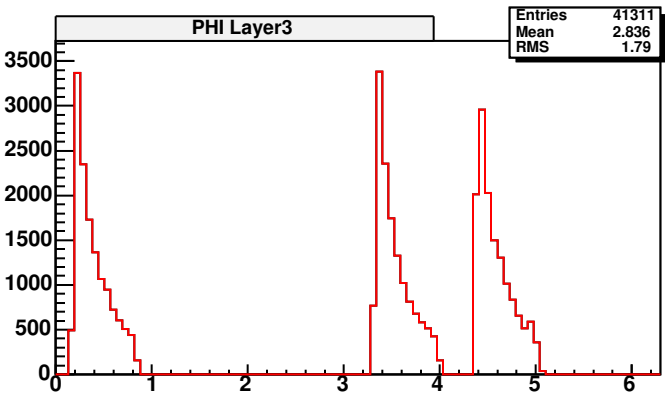
SmtClusters (ClustrBar1)

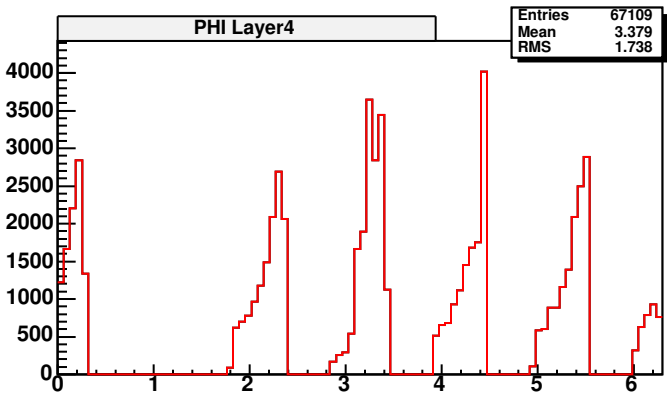


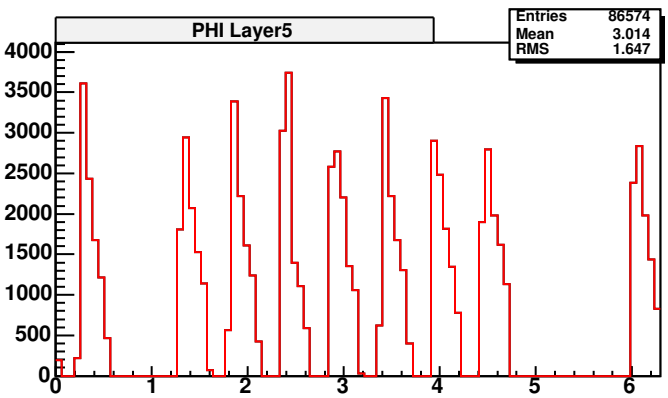
SmtClusters (ClustrBar2)

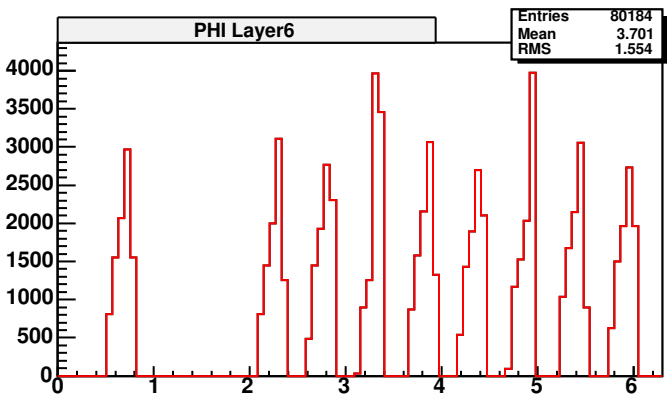


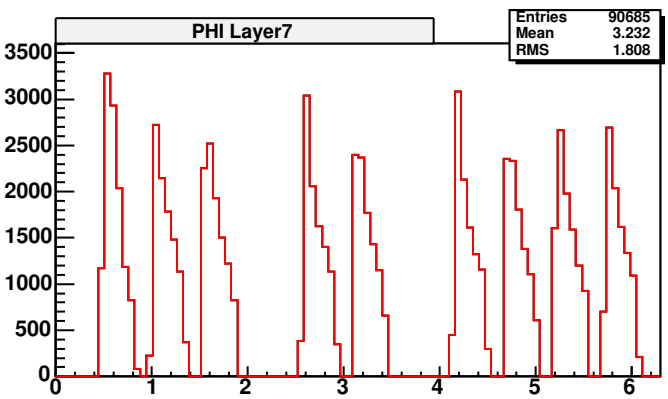


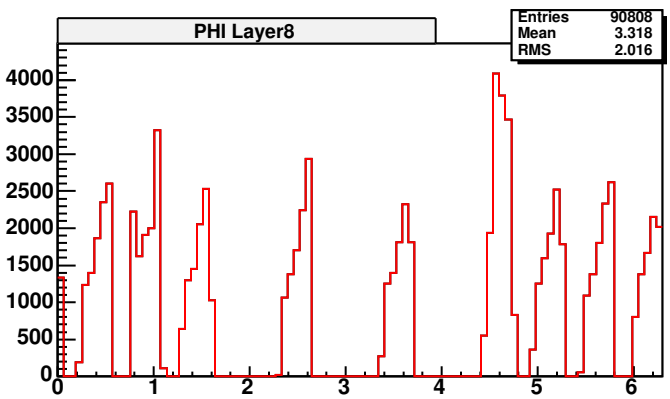




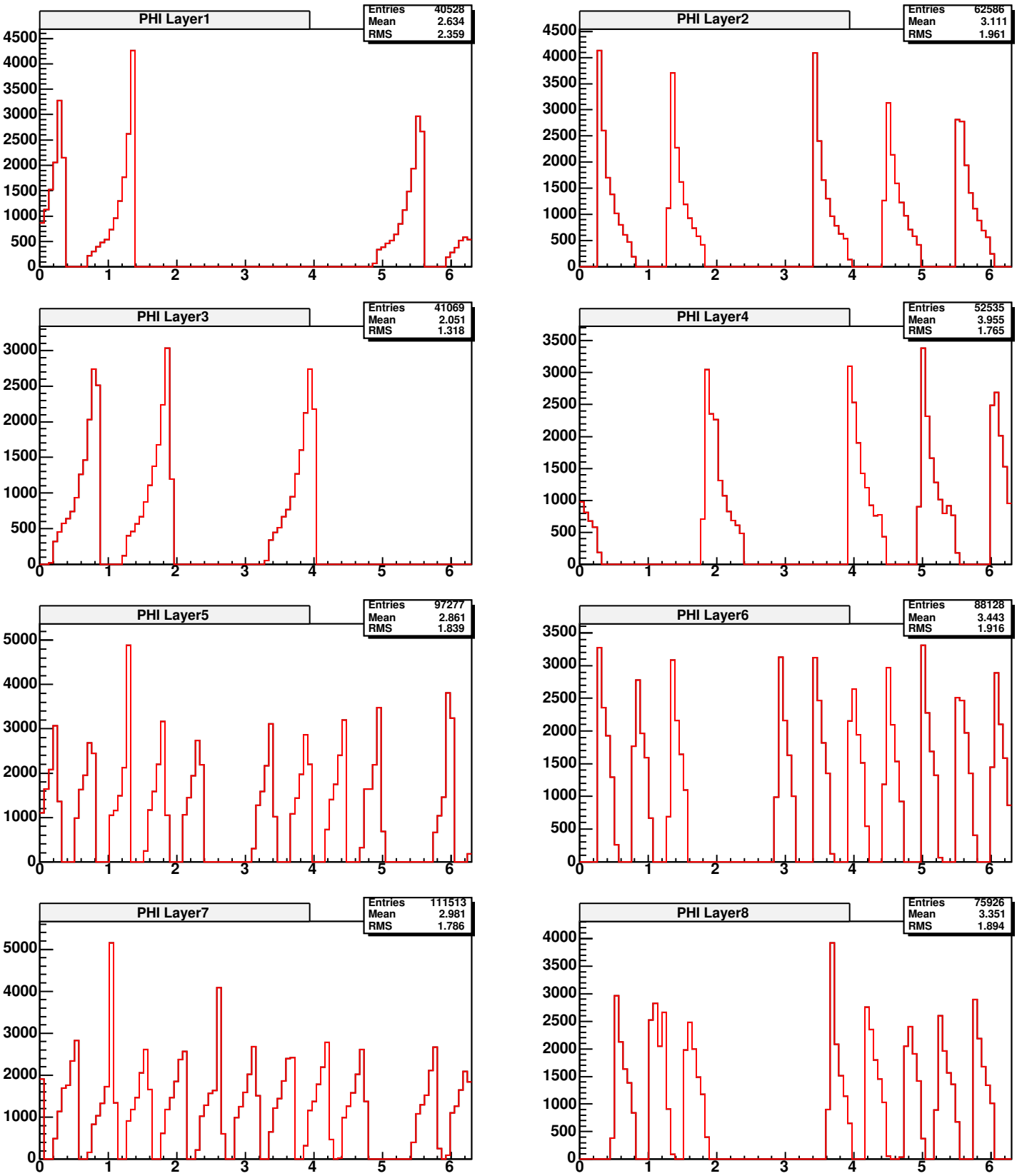




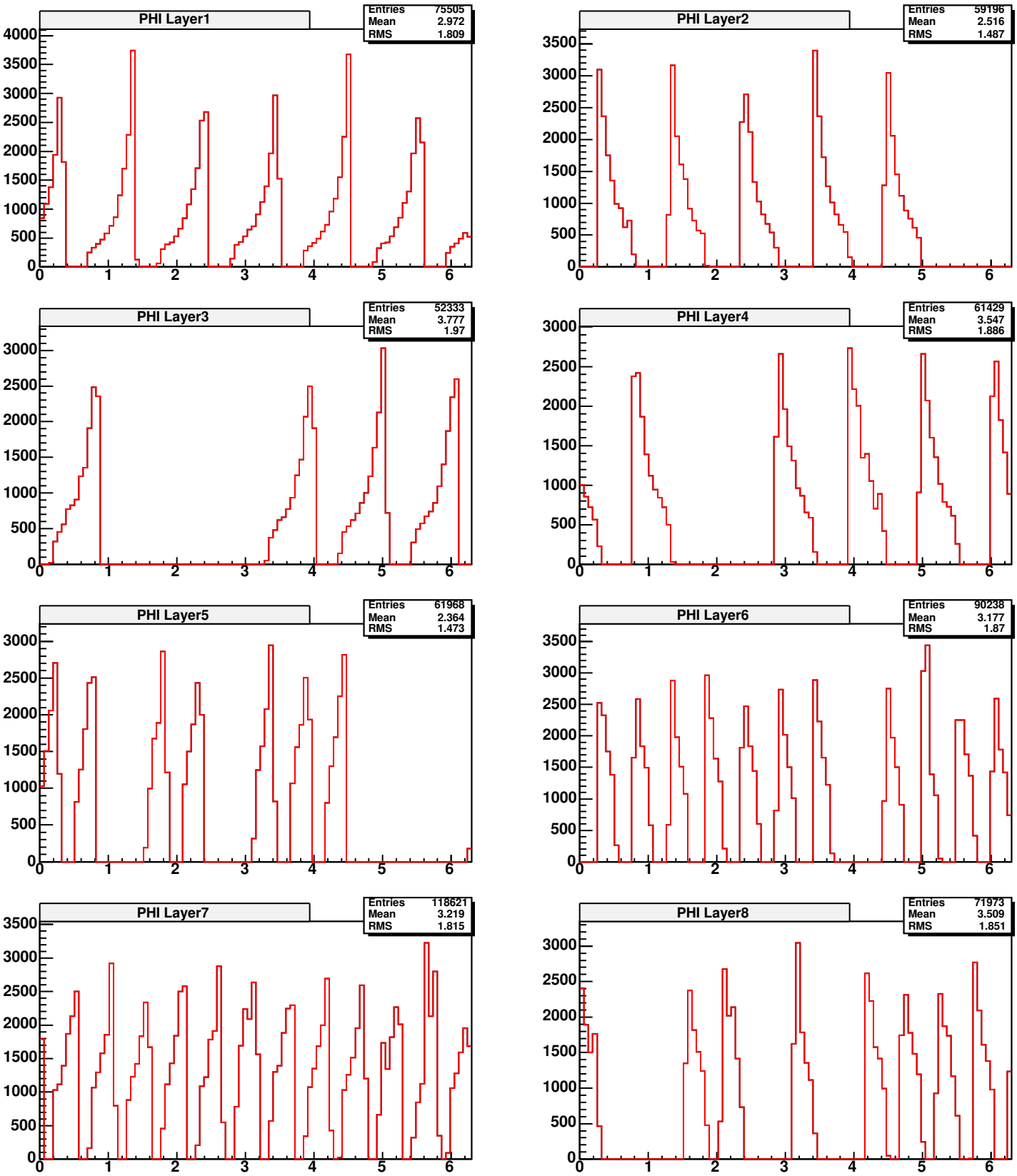




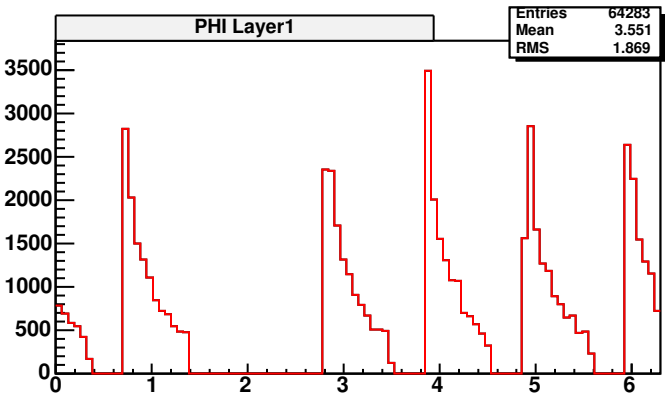
SmtClusters (ClustrBar3)

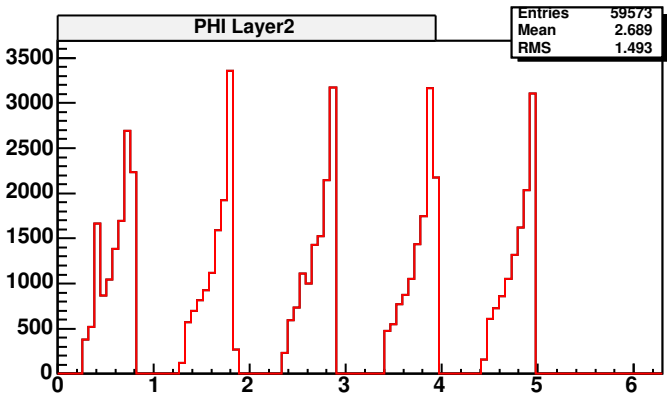


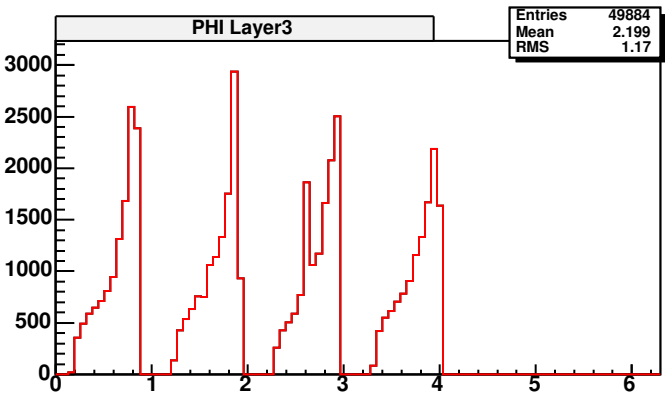
SmtClusters (ClustrBar4)

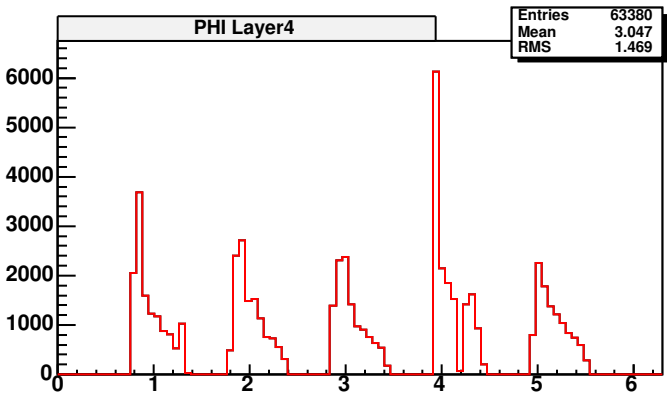


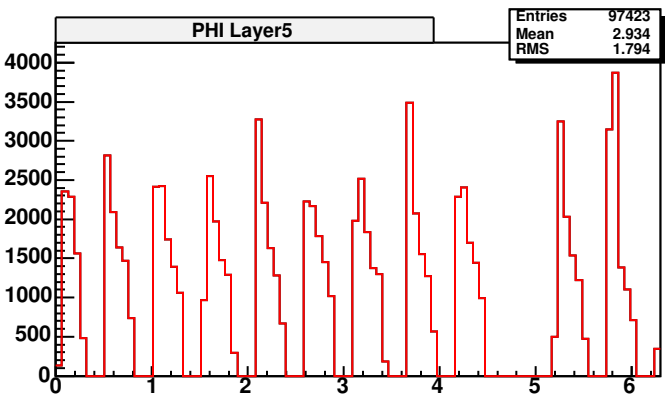
SmtClusters (ClustrBar5)

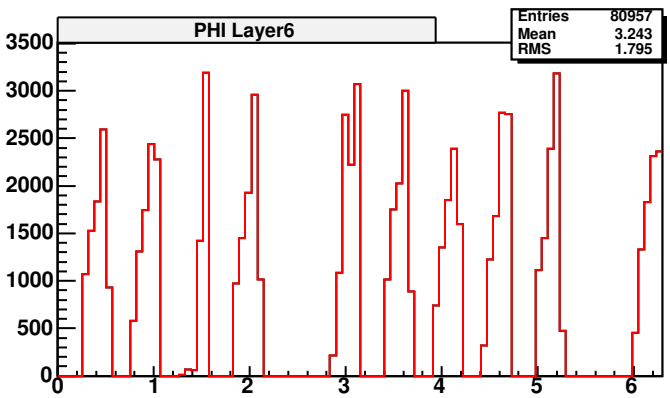


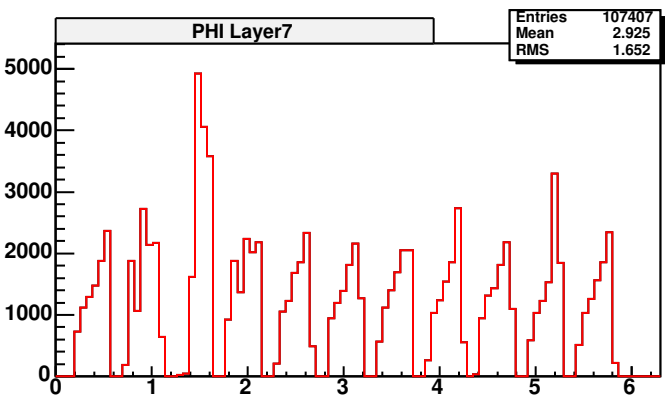


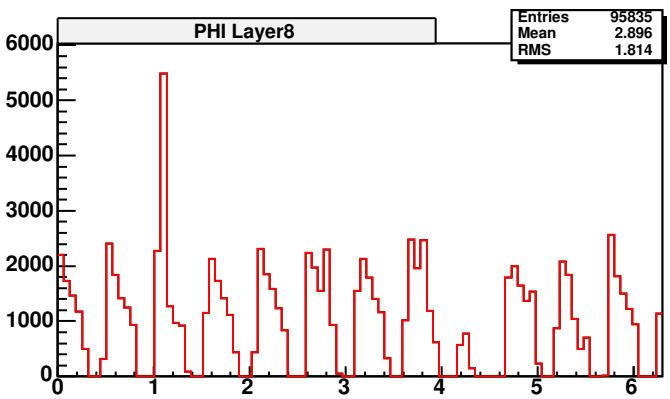




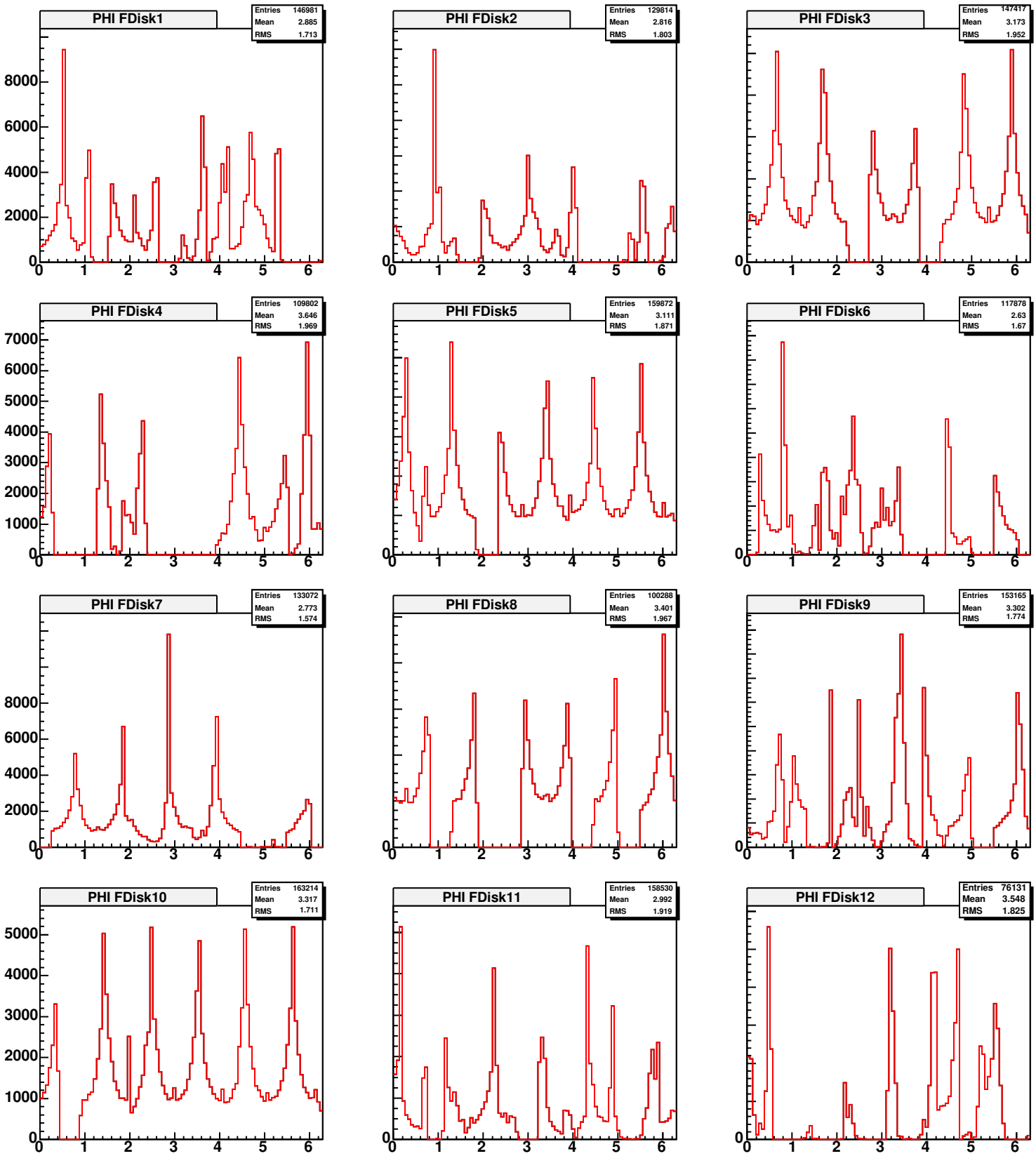




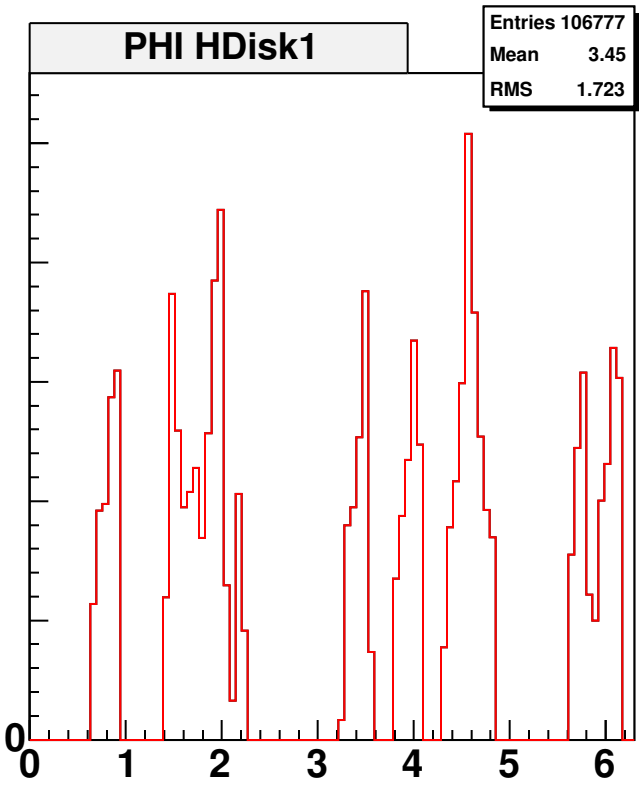


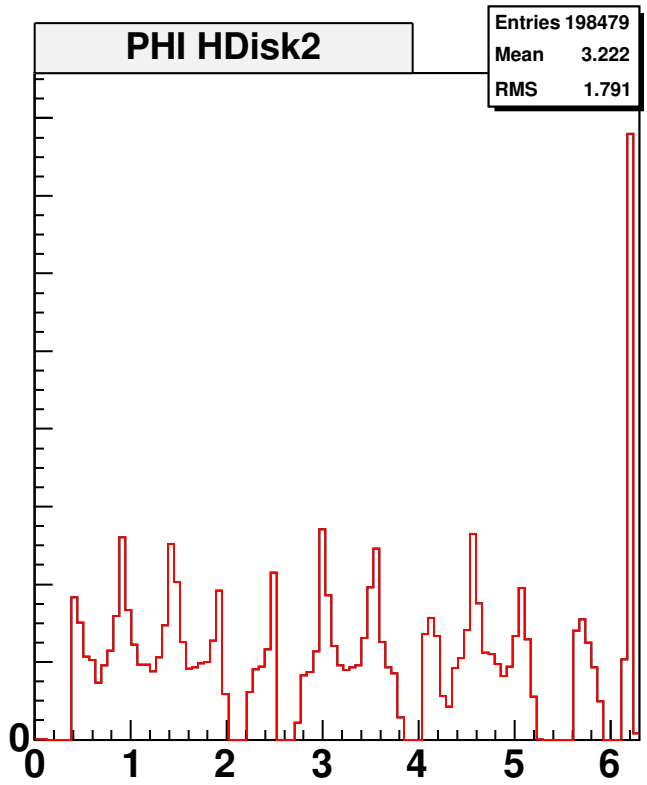


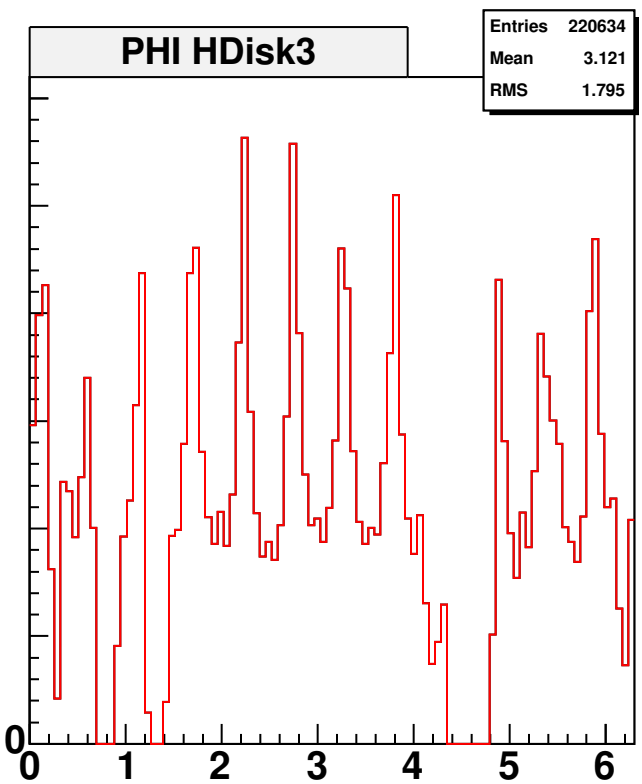
SmtClusters (ClustrBar6)

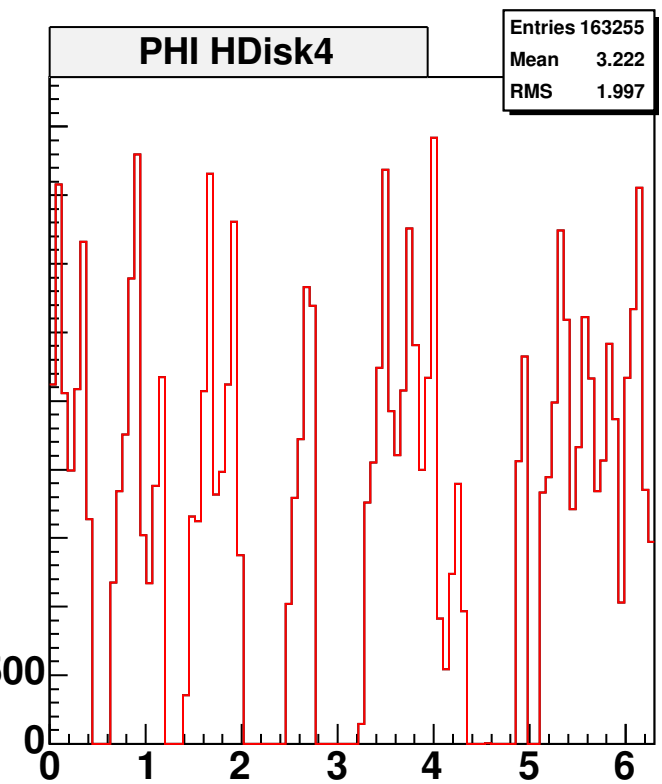


SmtClusters (FDiskClusters)

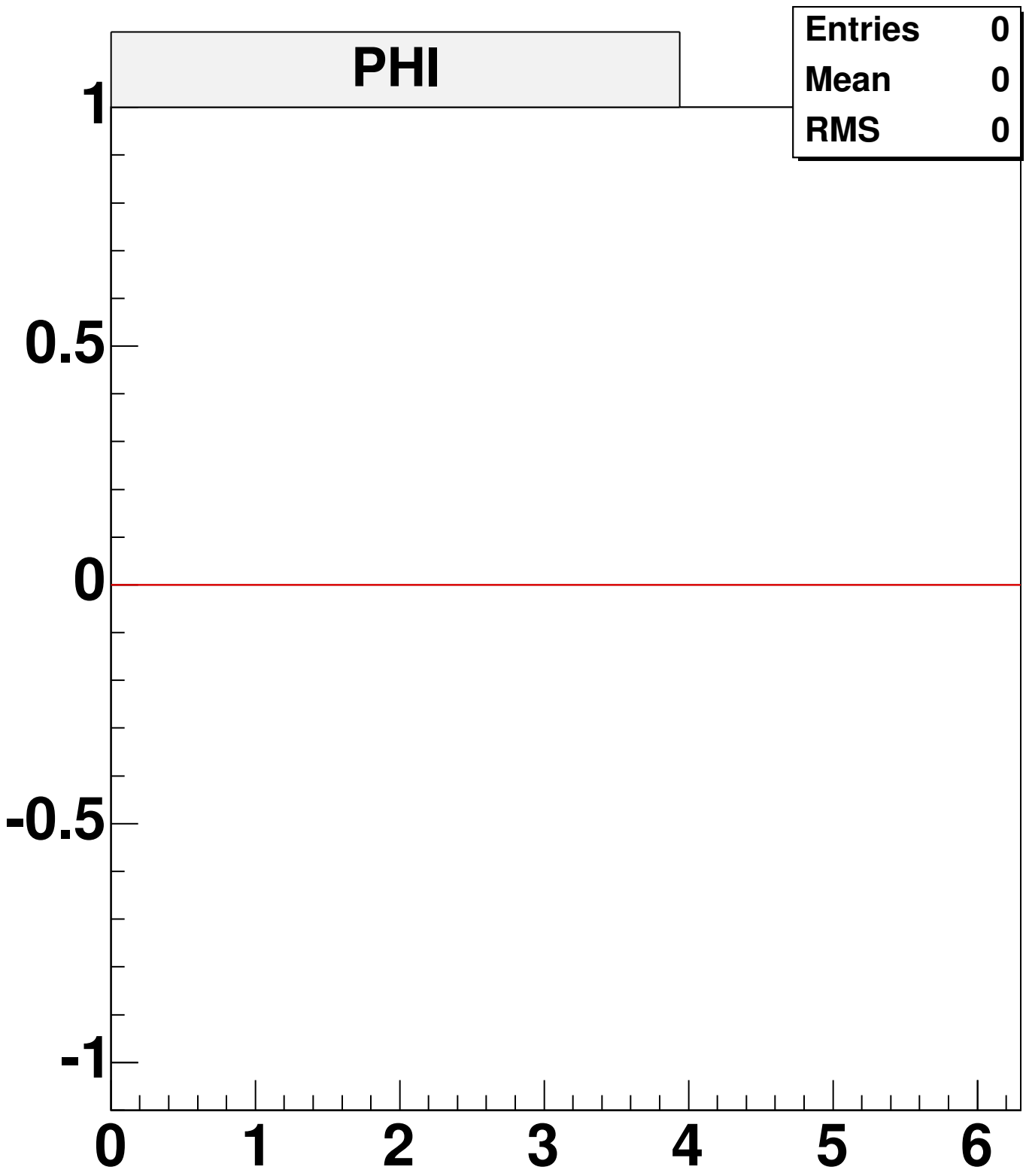








SmtClusters (HDiskClusters)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Entries 0
Mean 0
RMS 0
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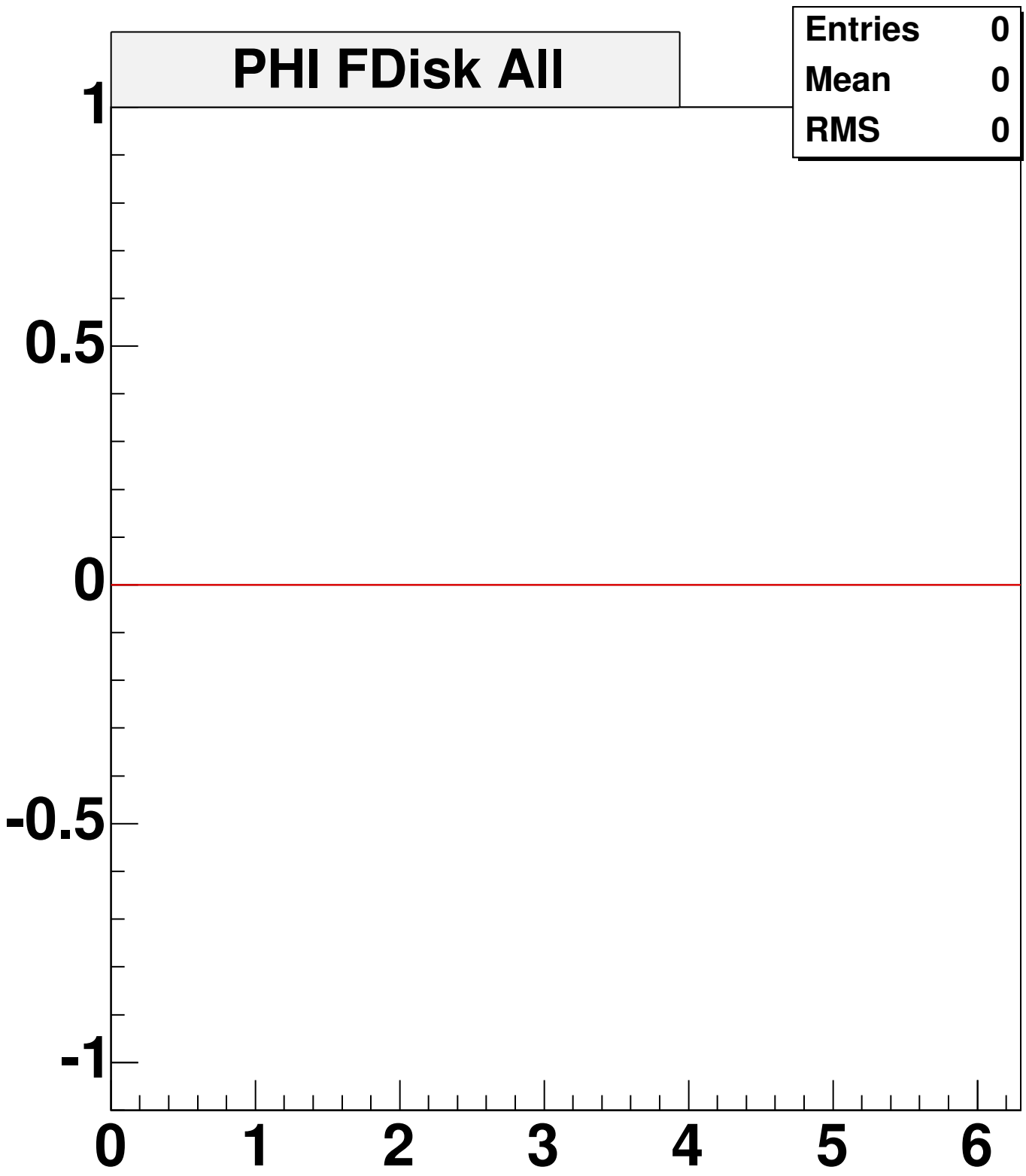
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)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Mean 0
RMS 0
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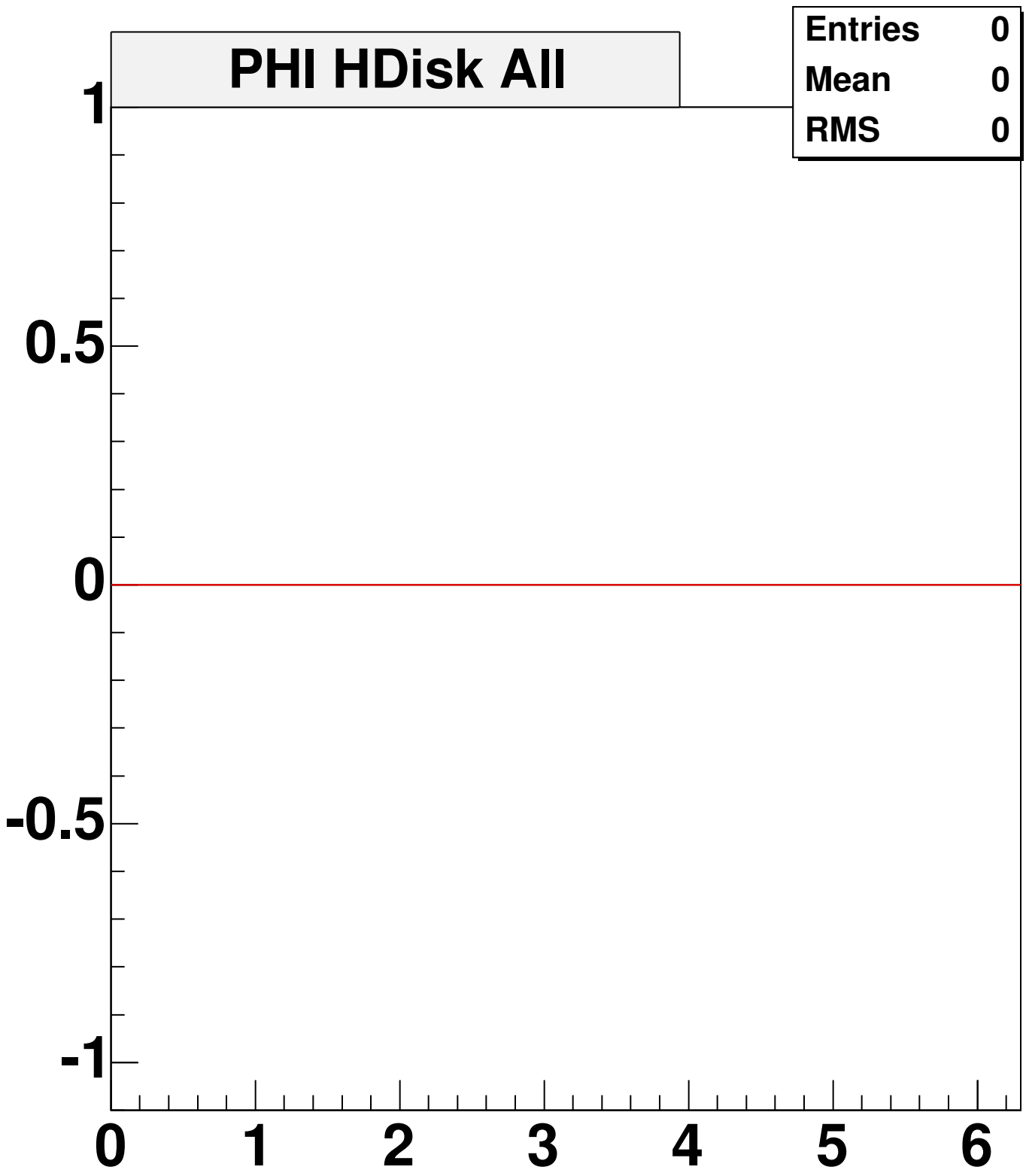
SmtClusters (allFDiskTClusters)


PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
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-1
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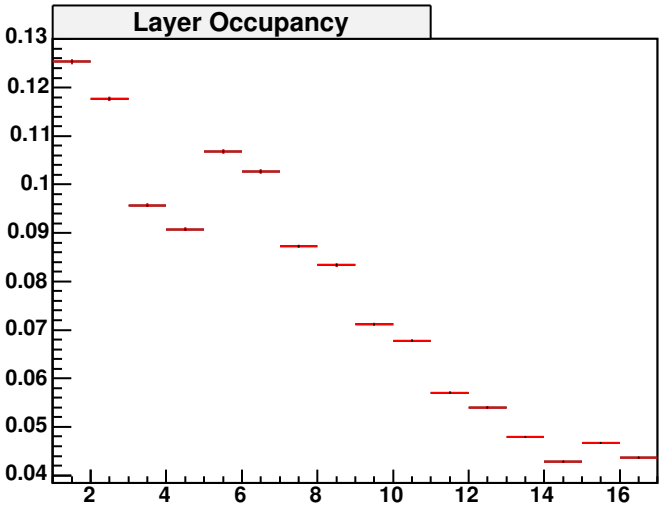
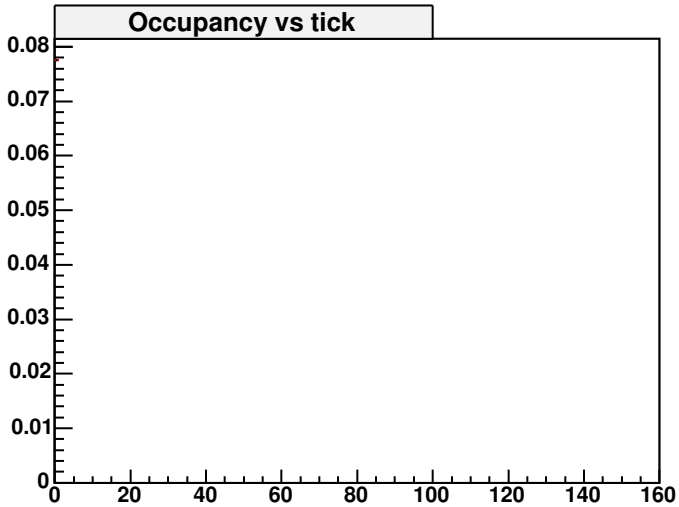
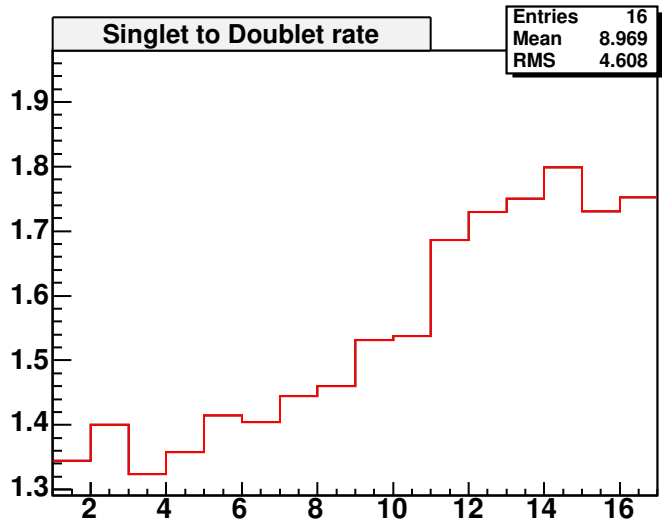
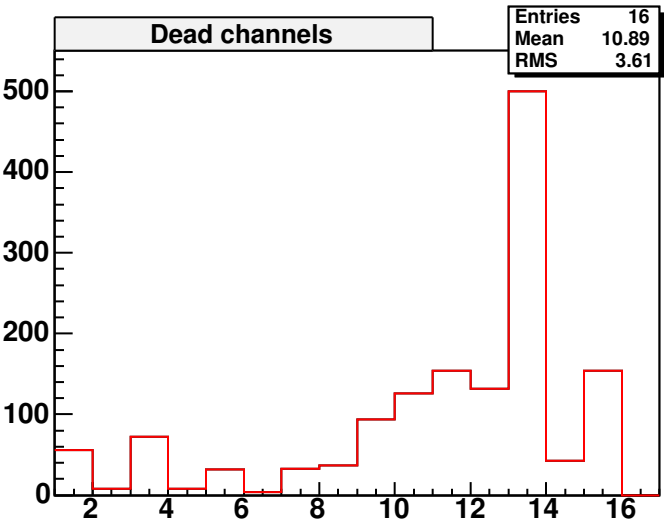
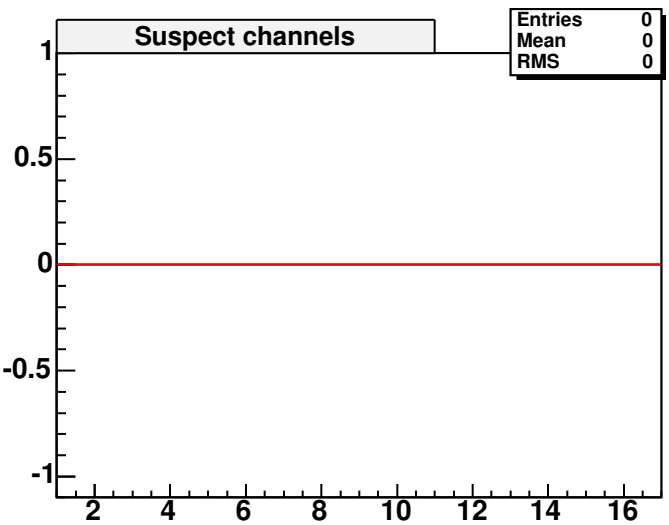
SmtClusters (allHDiskTClusters)

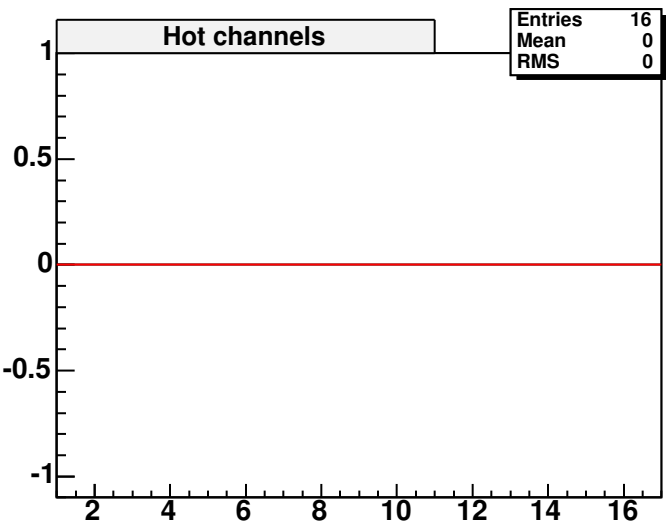




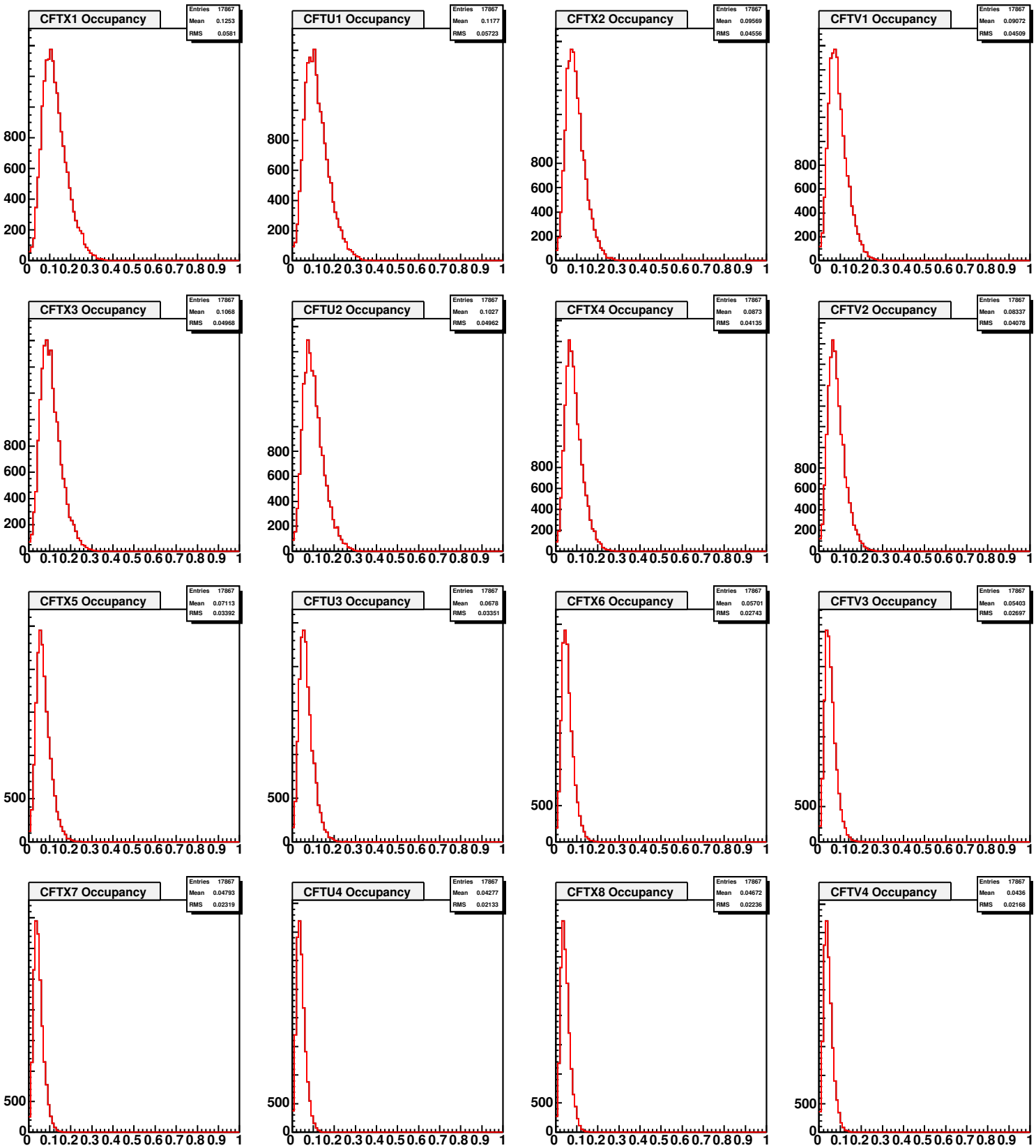




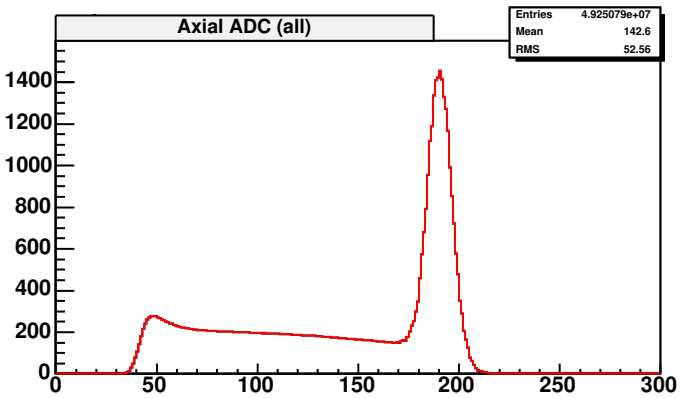


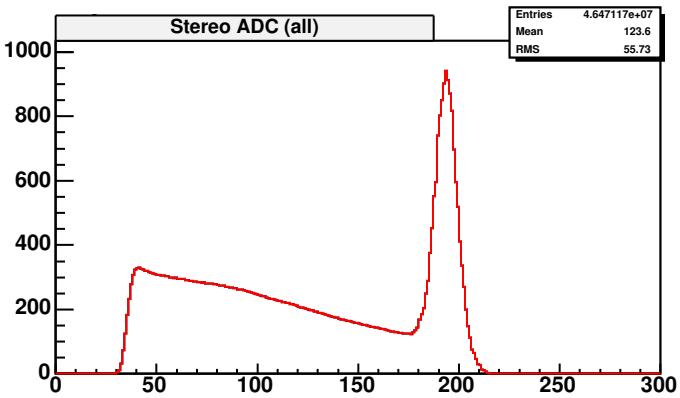


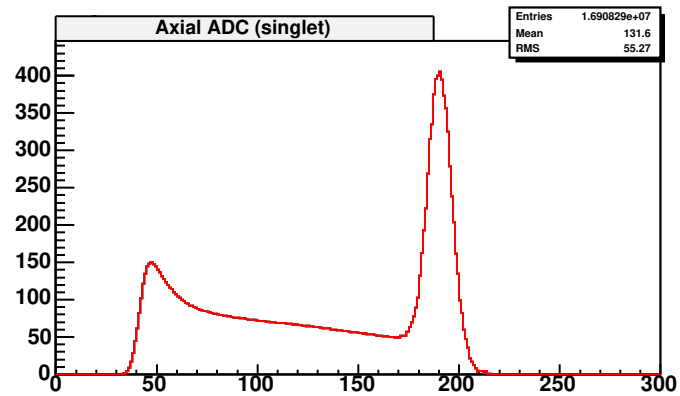
CFT Summary (All Clusters)

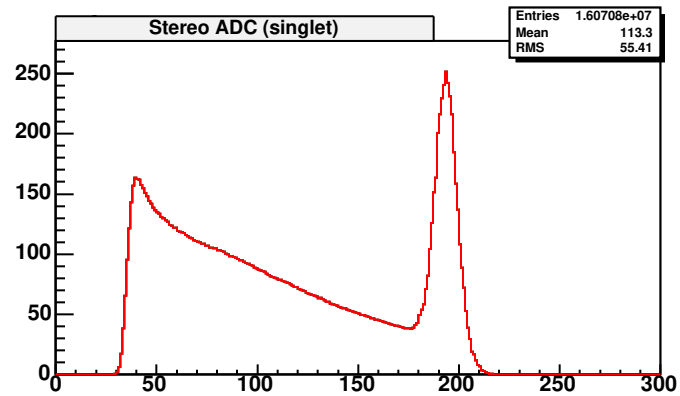


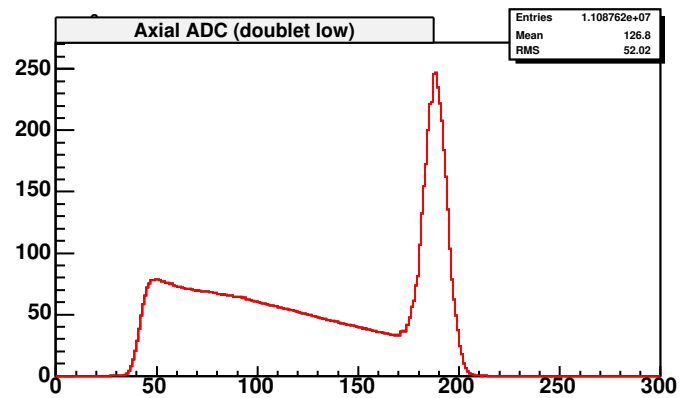
CFT Occupancy (All Clusters)

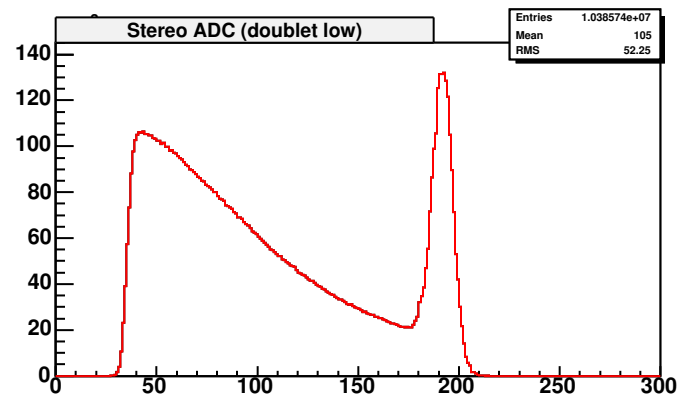


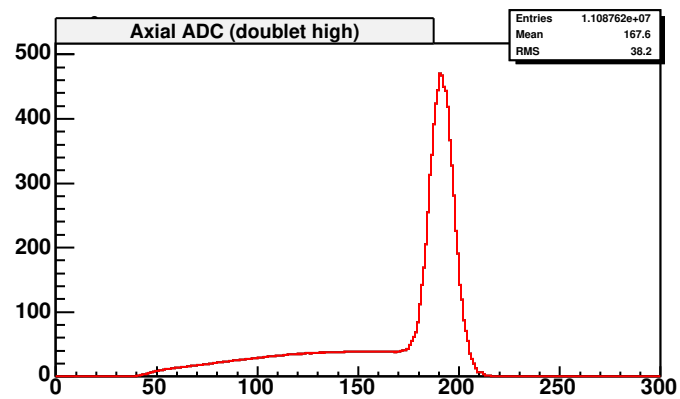


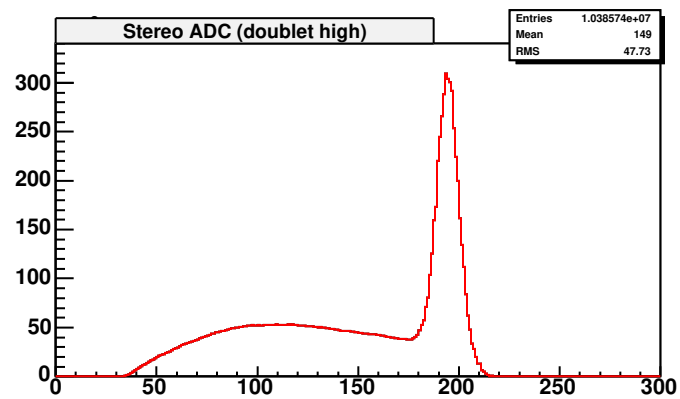




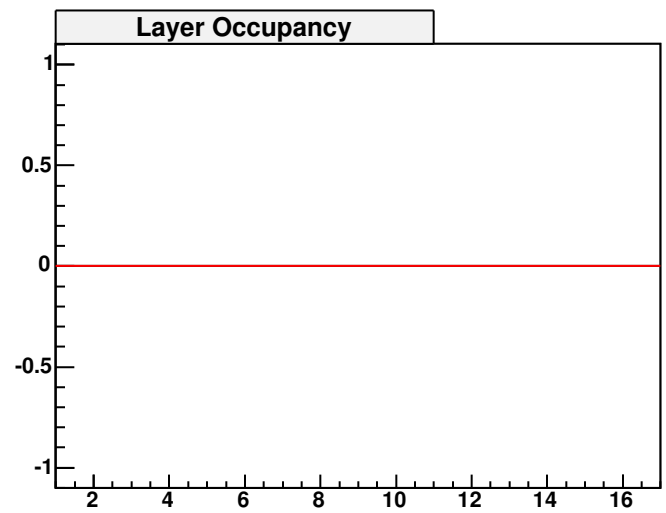


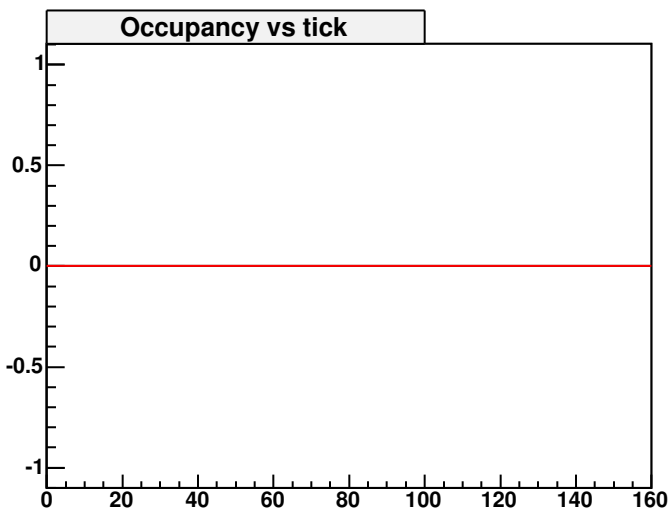


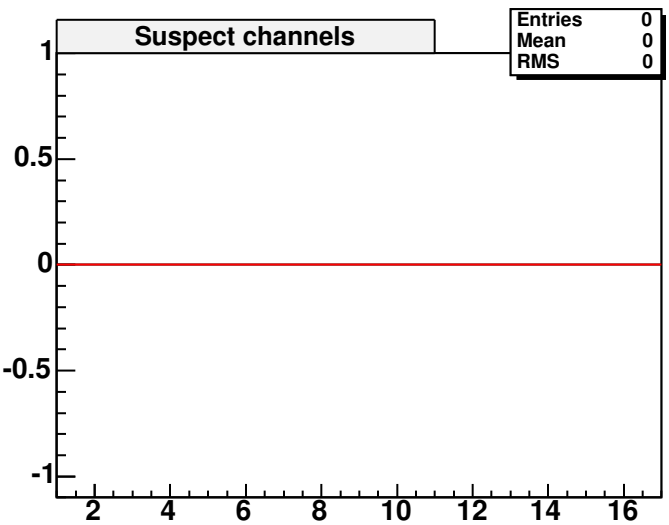


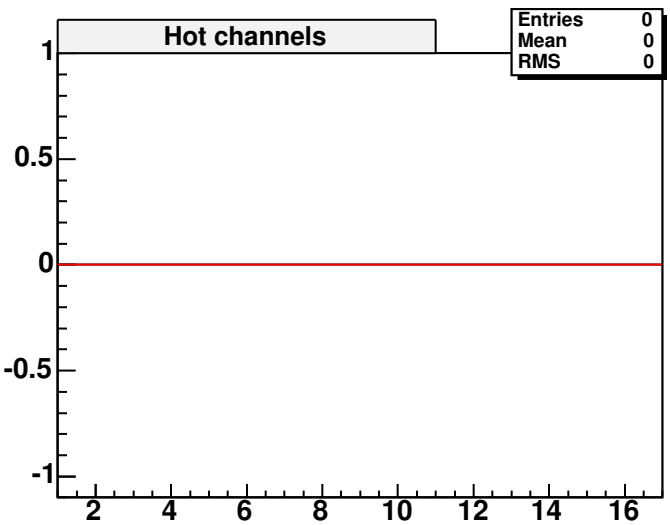


CFT ADC Summary (All Clusters)

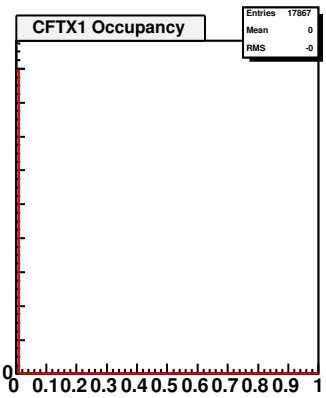


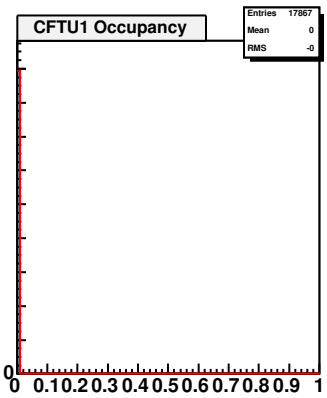


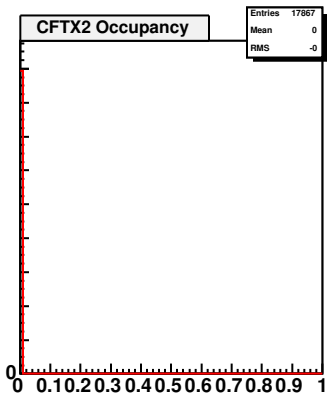


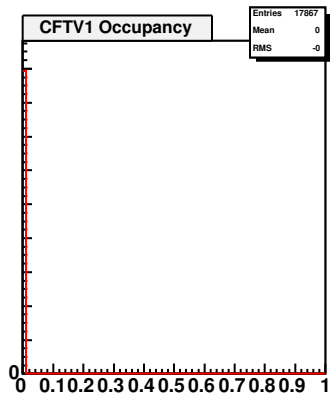


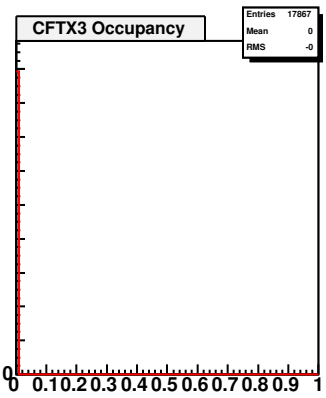
CFT Summary (Clusters on tracks)

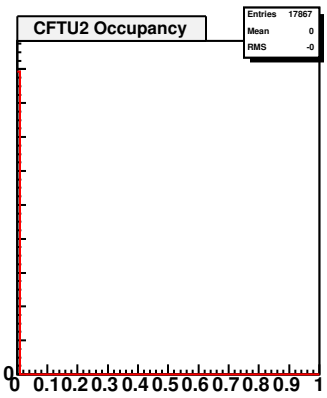


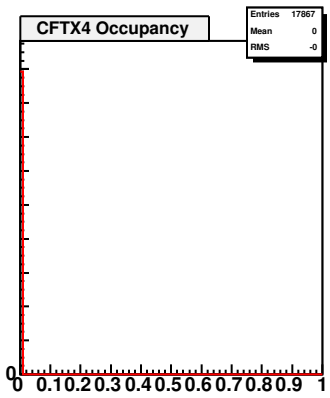


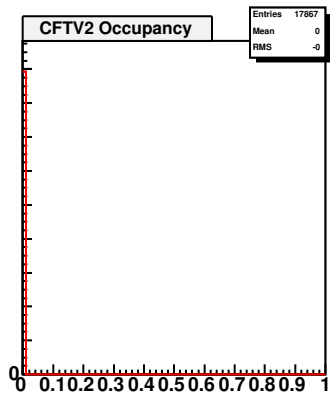


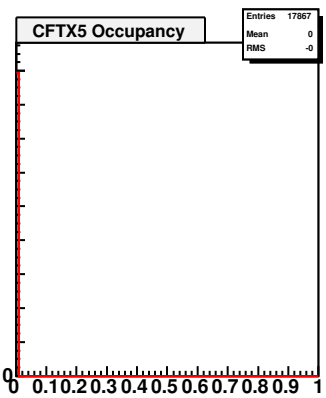


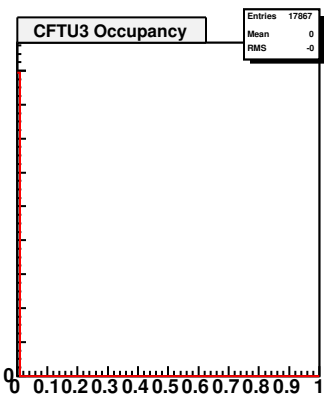


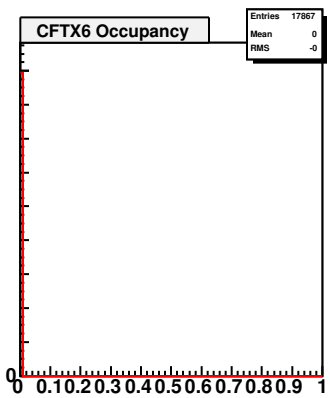


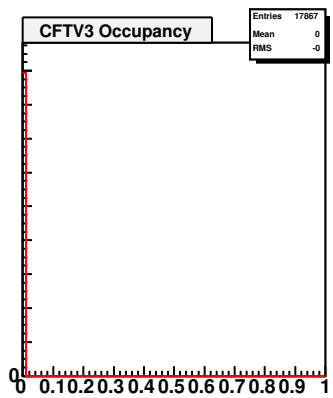


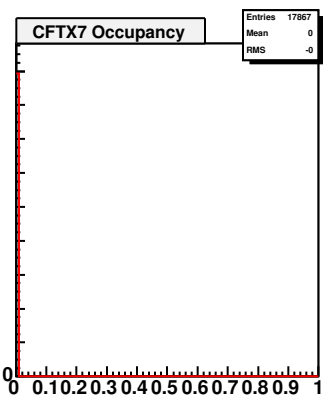


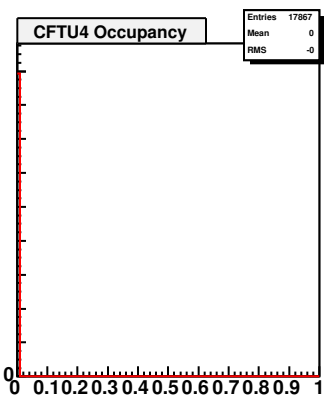


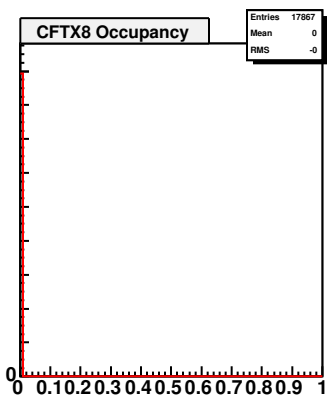


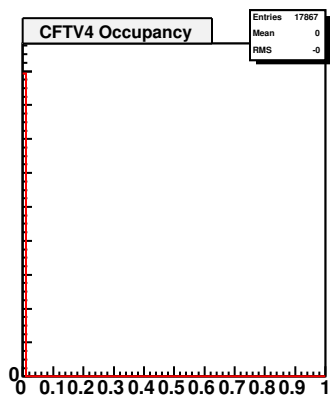




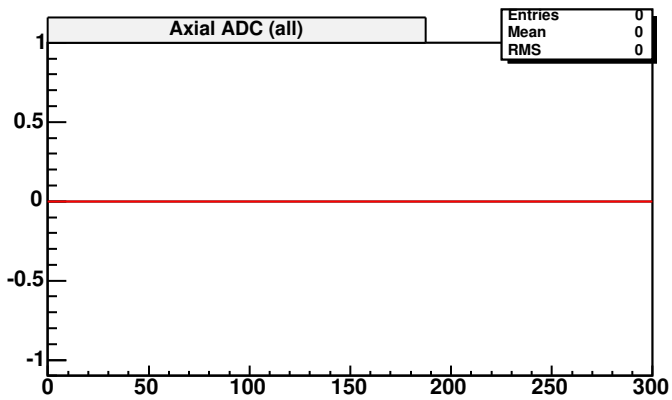


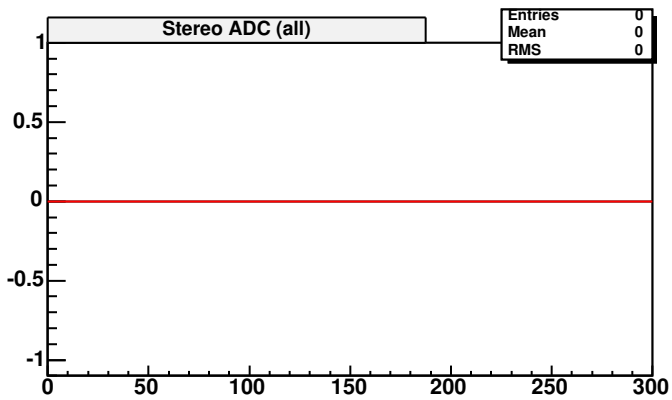


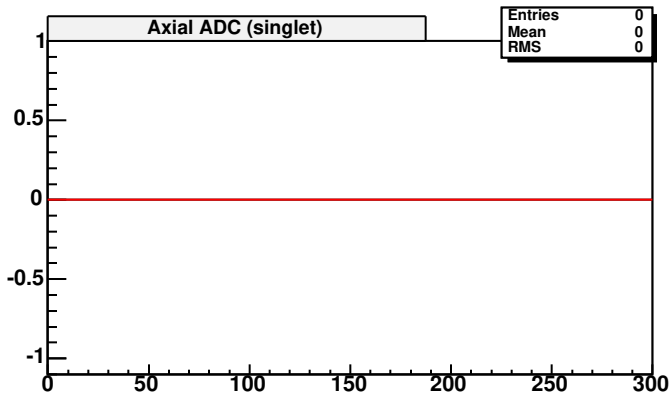


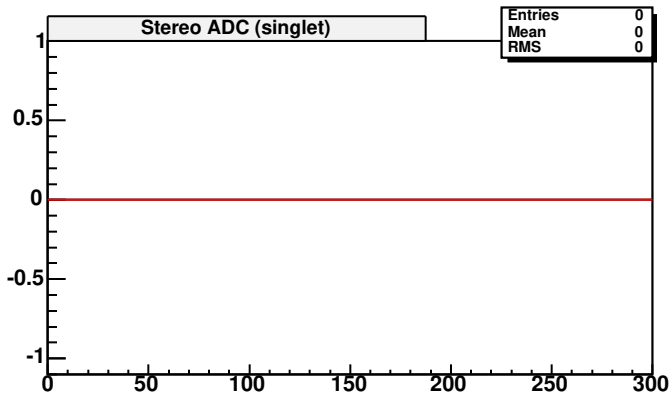


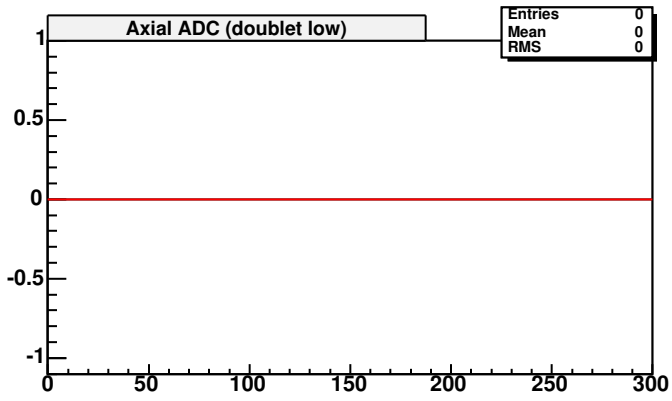
CFT Occupancy (Clusters on tracks)

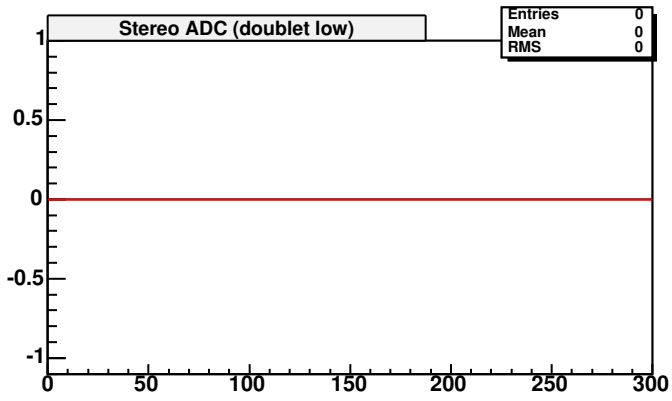


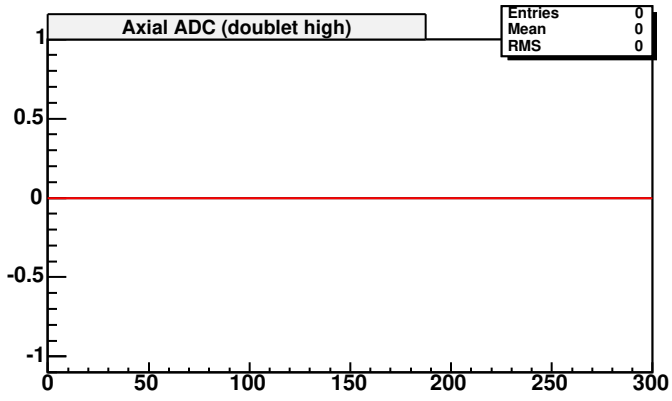


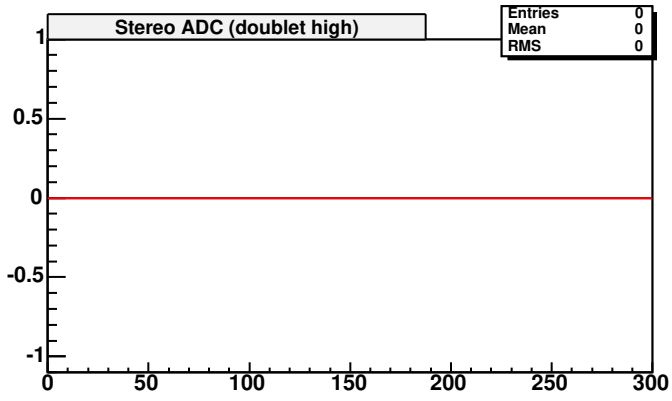




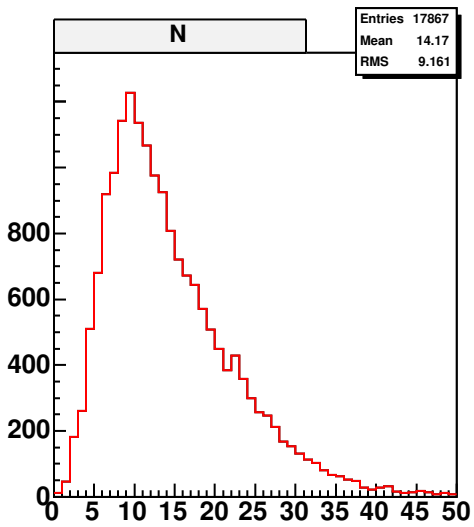








CFT ADC Summary (Clusters on tracks)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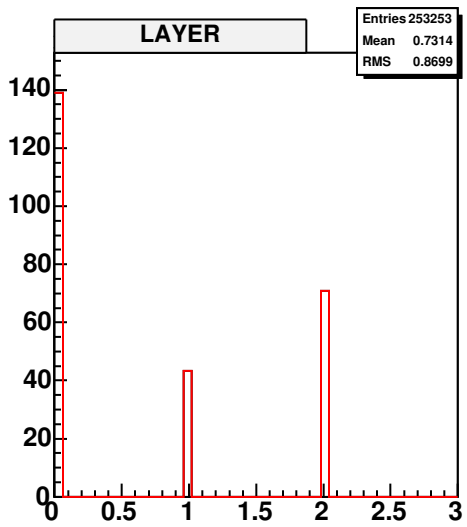
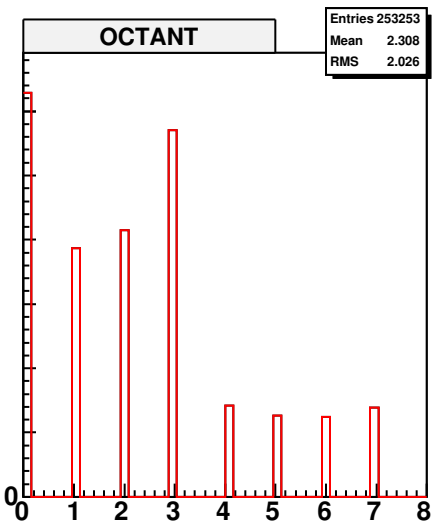
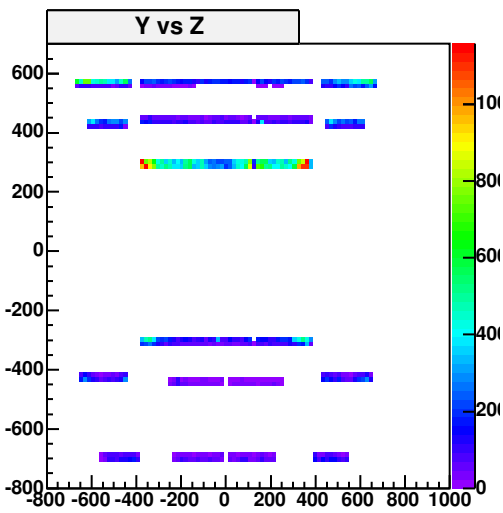
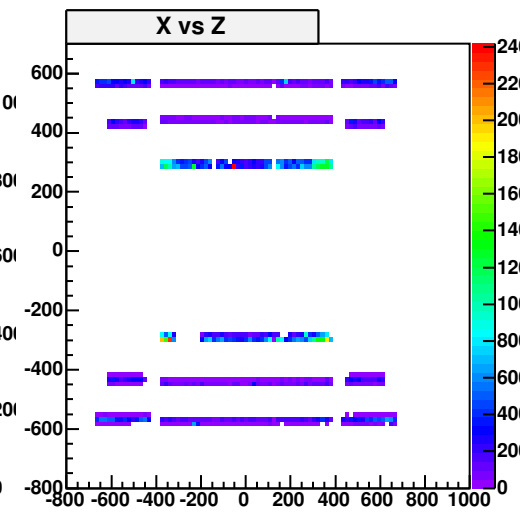
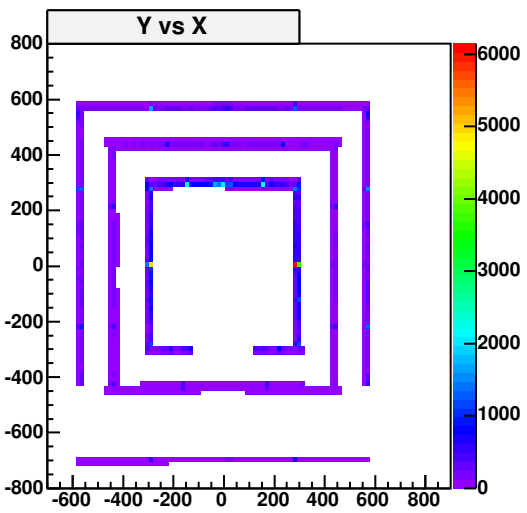
RMS 9.161

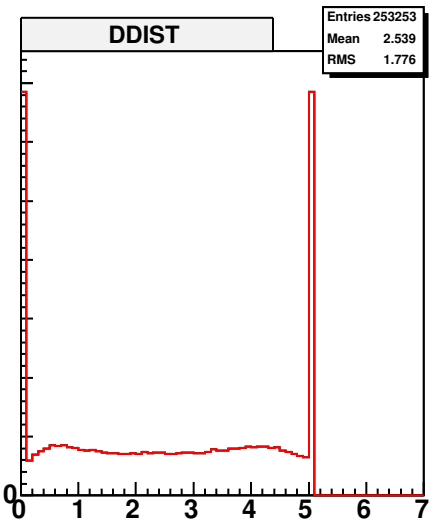

LAYER
Entries 253253
Mean 0.7314
RMS 0.8699

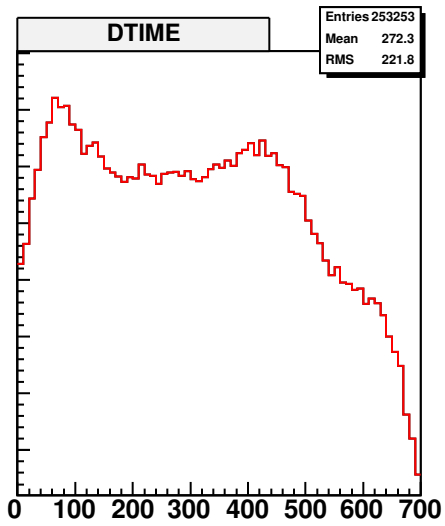

OCTANT
Entries 253253
Mean 2.308
RMS 2.026


Y vs Z

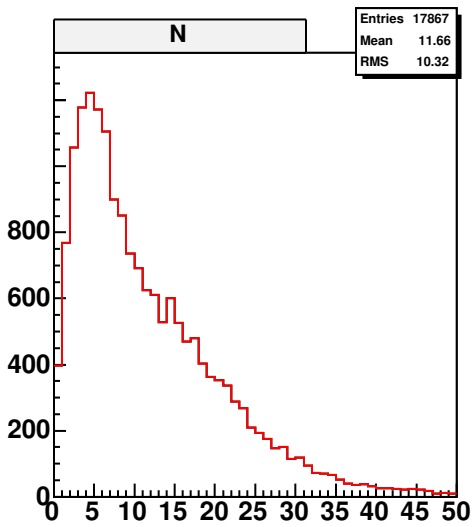

X vs Z

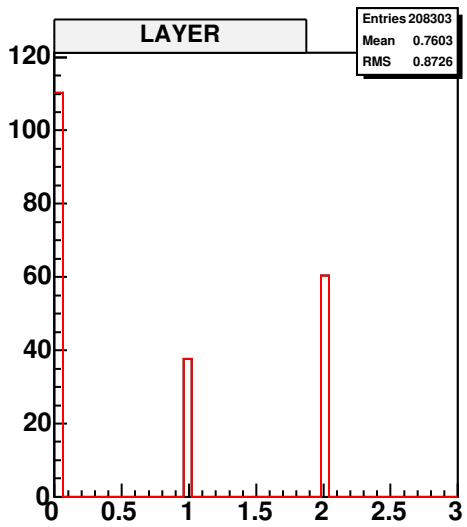

Y vs X

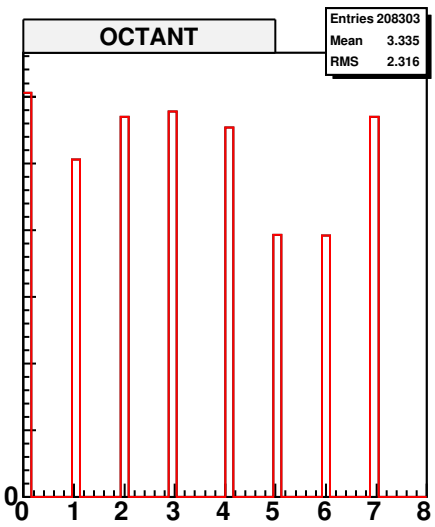

DDIST
Entries 253253
Mean 2.539
RMS 1.776

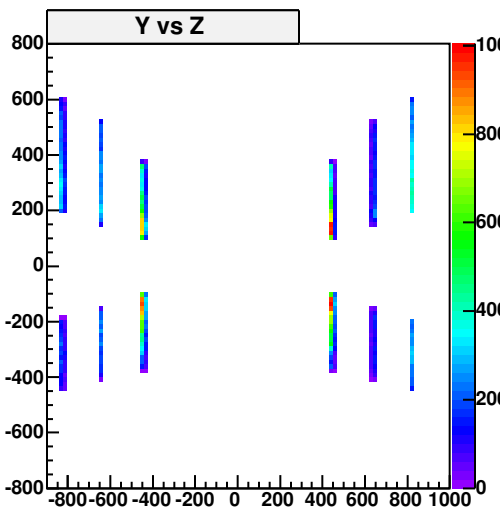

DTIME
Entries 253253
Mean 272.3
RMS 221.8

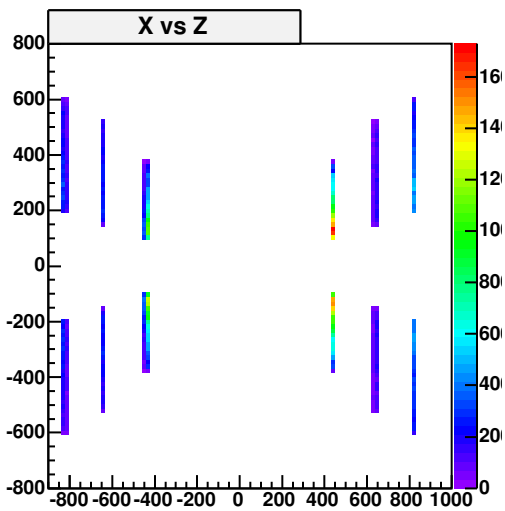
MuonPDT (All)

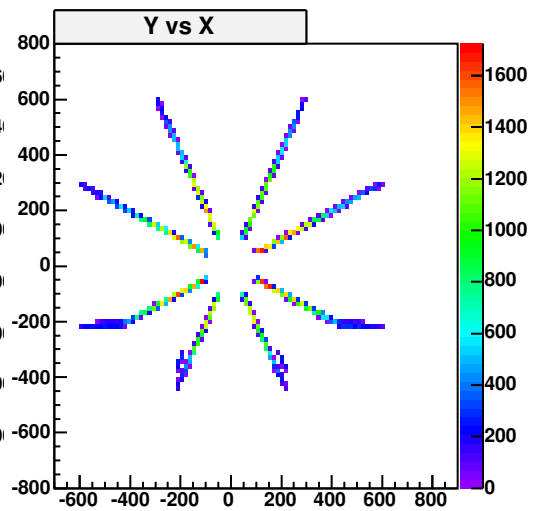

N
Entries 17867
Mean 11.66
RMS 10.32

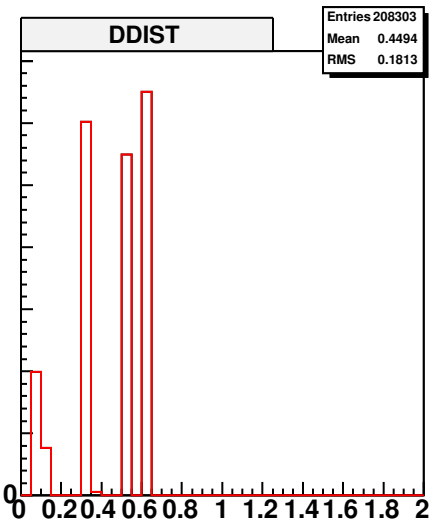

LAYER
Entries 208303
Mean 0.7603
RMS 0.8726

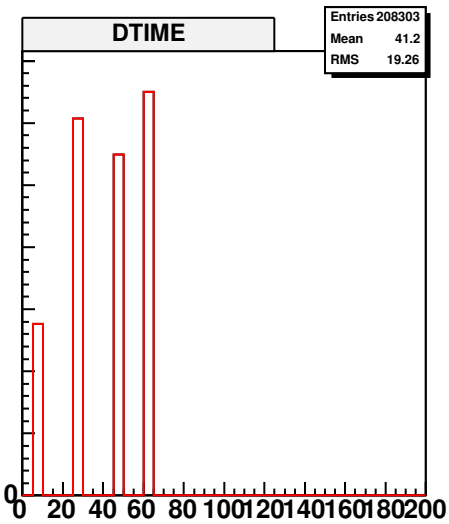

OCTANT
Entries 208303
Mean 3.335
RMS 2.316


Y vs Z

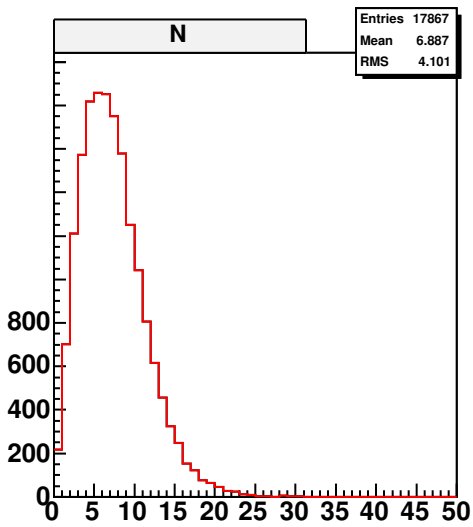

X vs Z

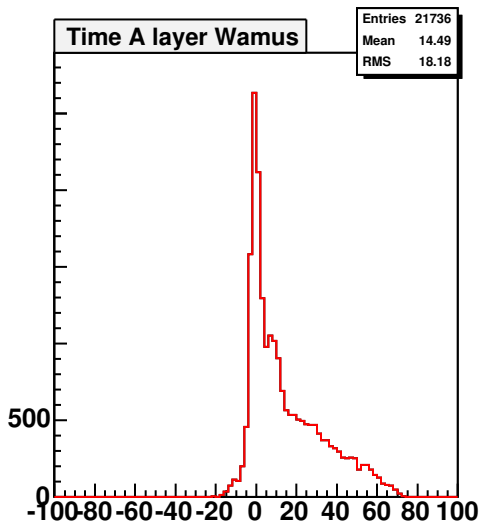

Y vs X

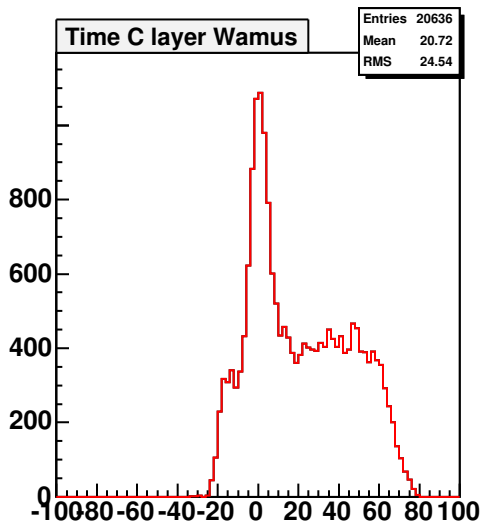

DDIST
Entries 208303
Mean 0.4494
RMS 0.1813

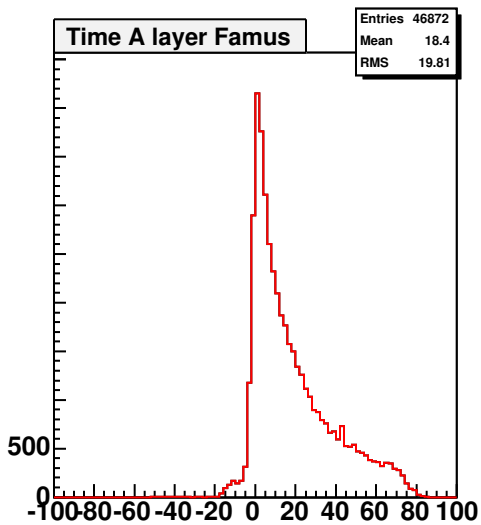

DTIME
Entries 208303
Mean 41.2
RMS 19.26

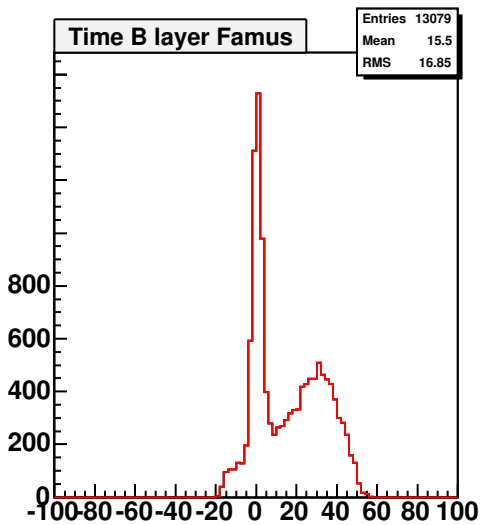
MuonMDT (All)

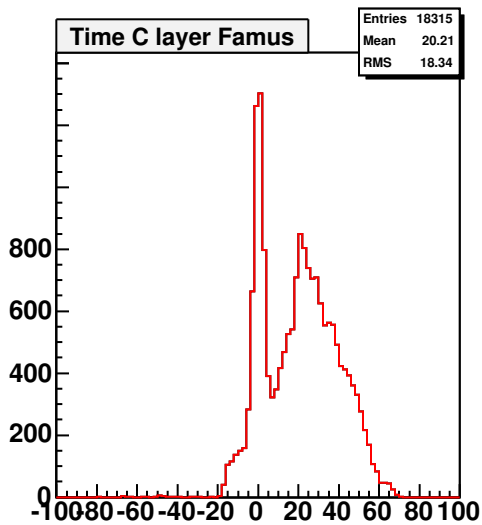

N
Entries 17867
Mean 6.887
RMS 4.101

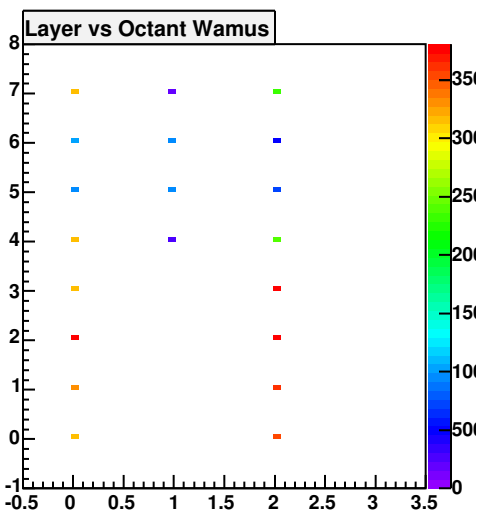

Time A layer Wamus
Entries 21736
Mean 14.49
RMS 18.18

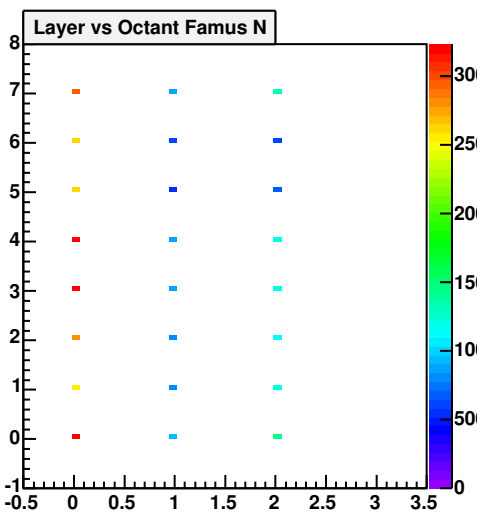

Time C layer Wamus
Entries 20636
Mean 20.72
RMS 24.54

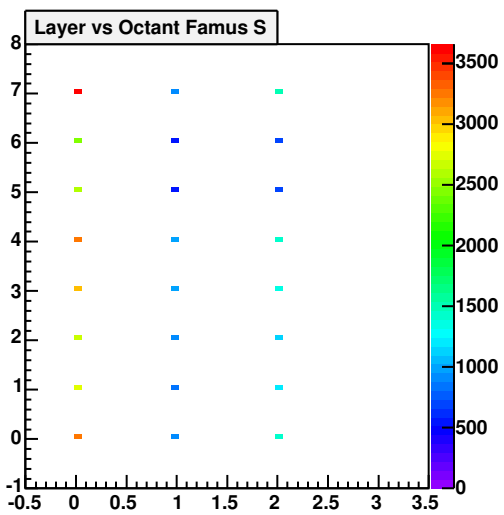

Time A layer Famus
Entries 46872
Mean 18.4
RMS 19.81


Time B layer Famus
Entries 13079
Mean 15.5
RMS 16.85

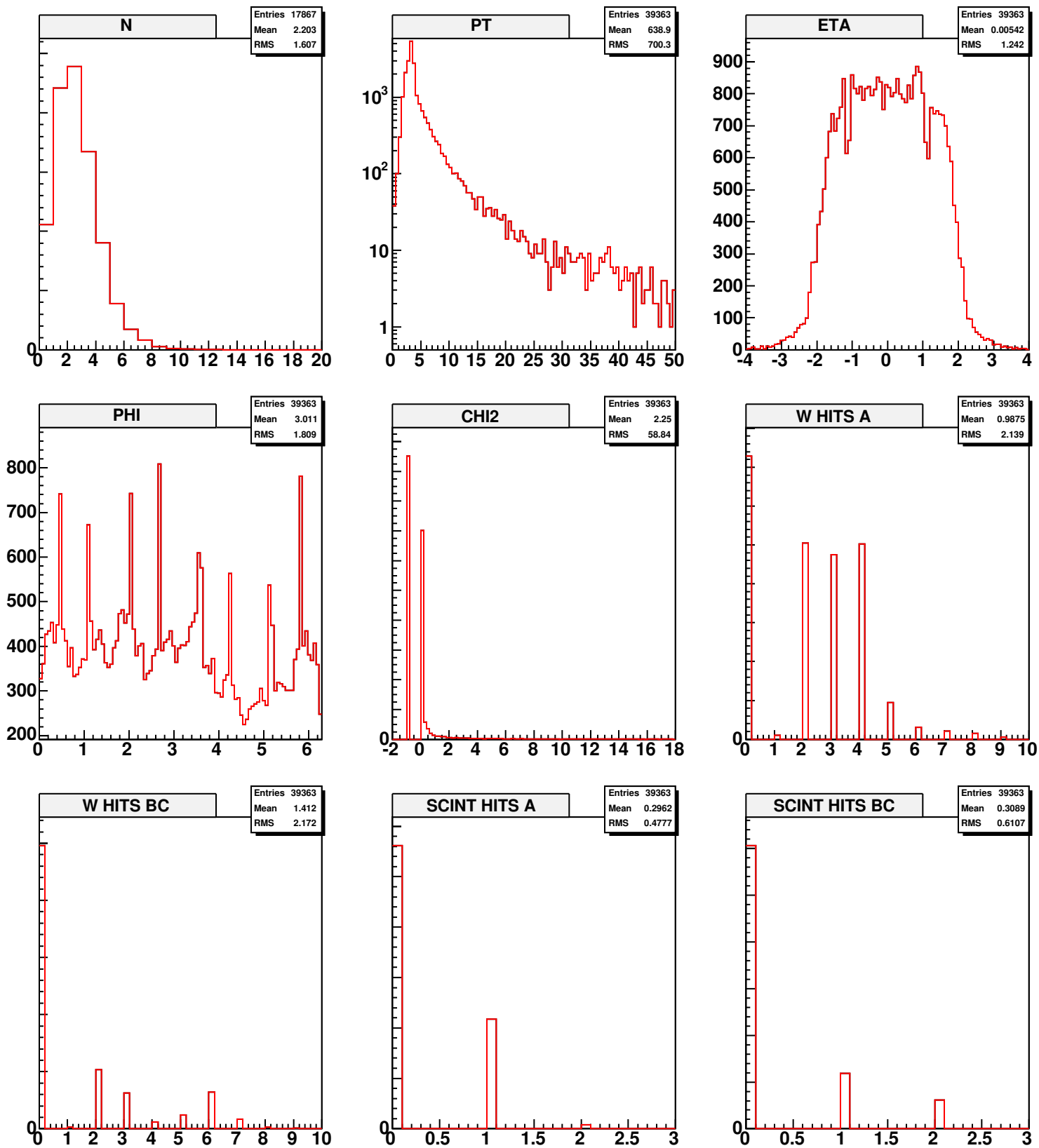

Time C layer Famus
Entries 18315
Mean 20.21
RMS 18.34


Layer vs Octant Wamus

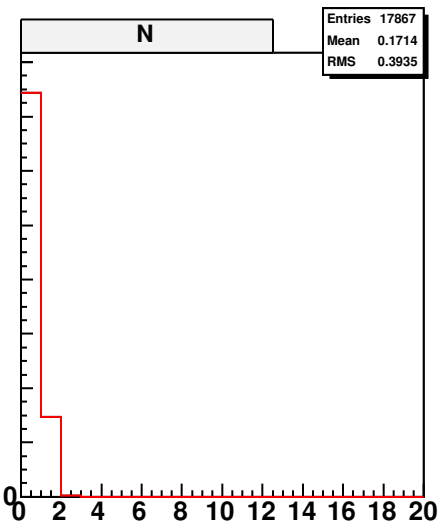

Layer vs Octant Famus N

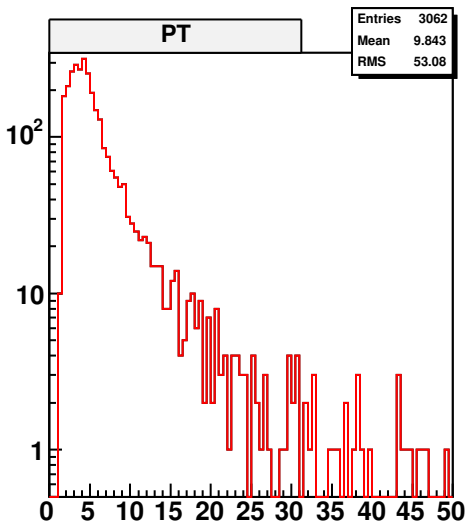

Layer vs Octant Famus S

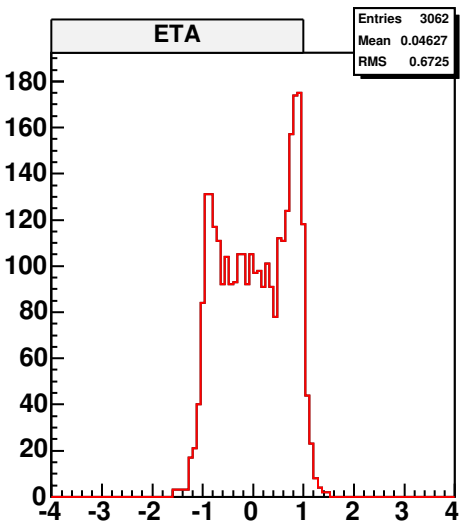
MuonMSC (All)

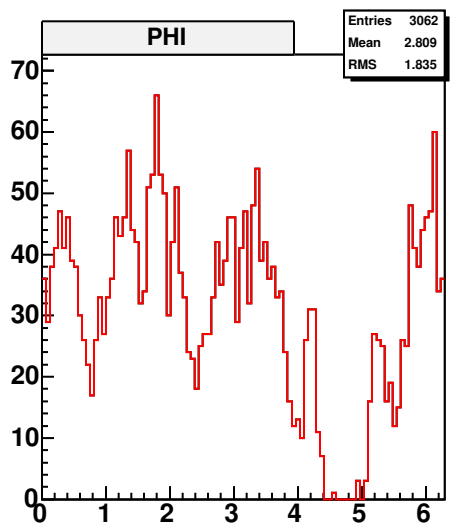


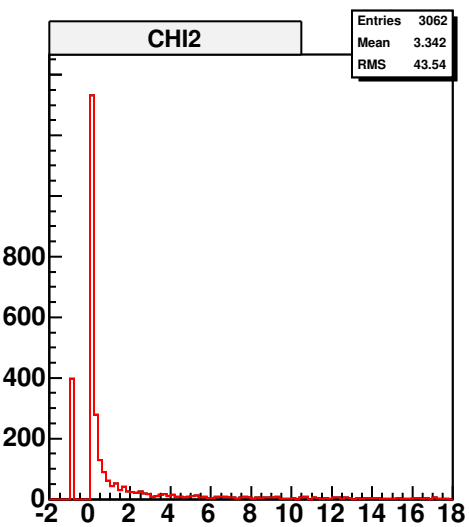
Muon Local Tracks (All)

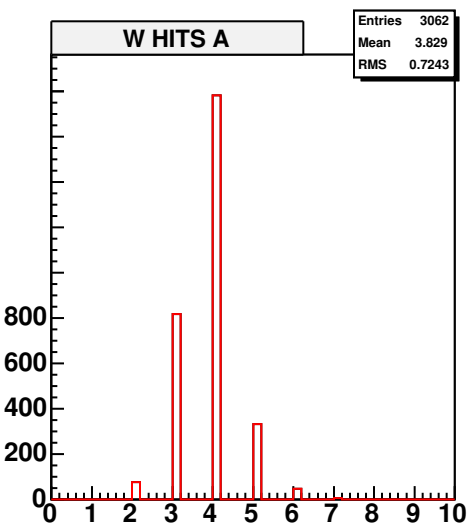


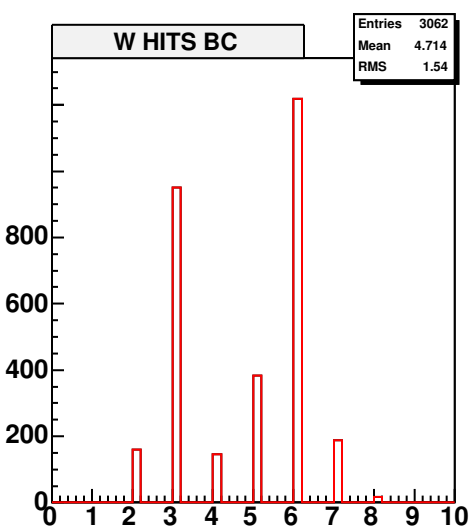


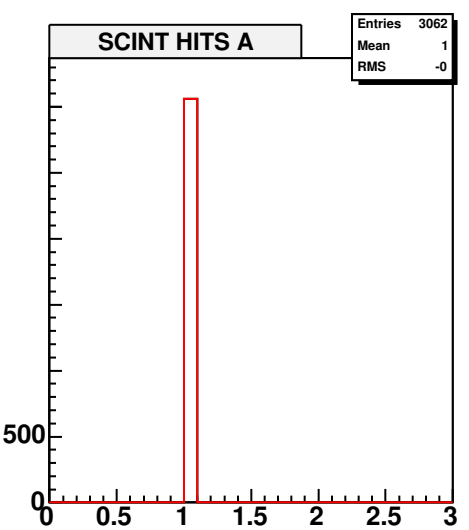


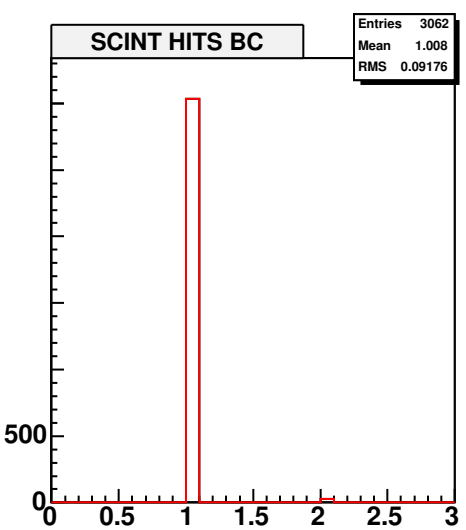




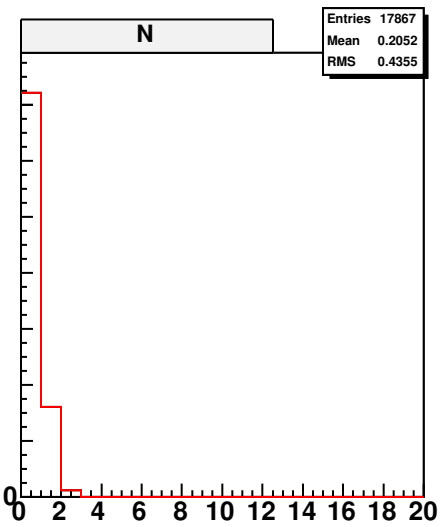


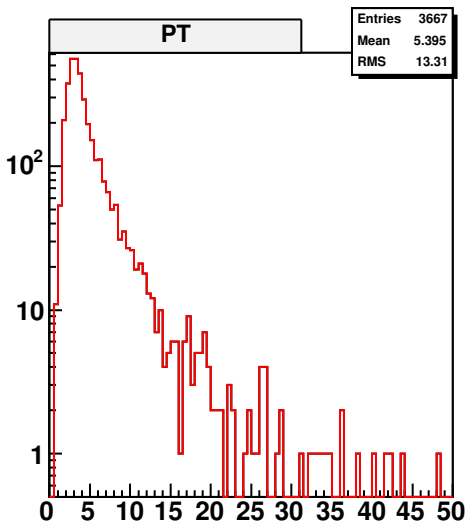


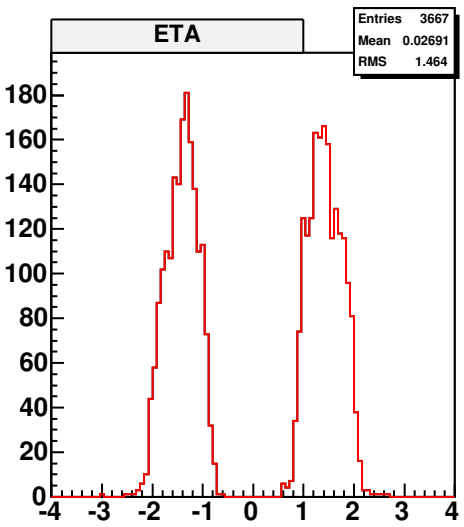


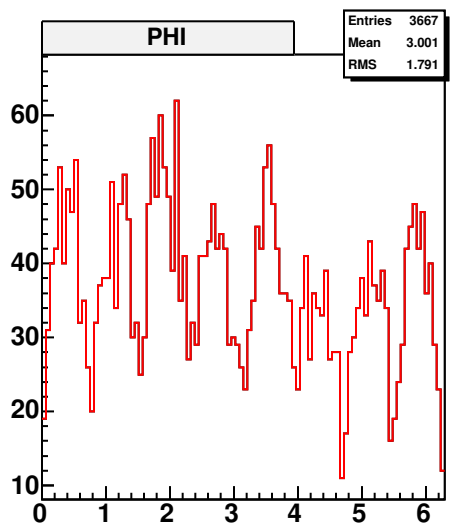


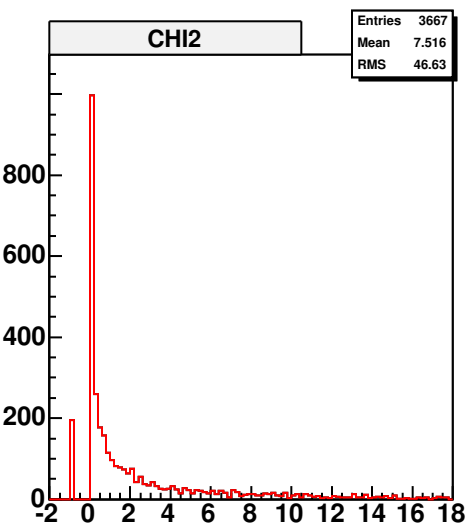
Muon Local Tracks (MediumWamus)

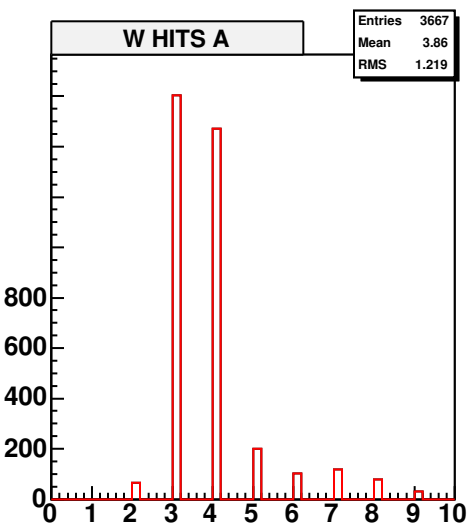


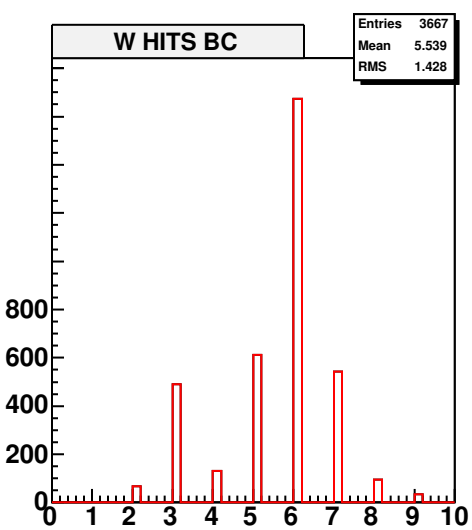


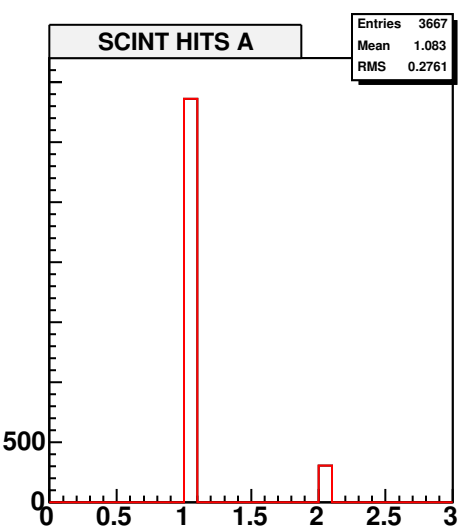


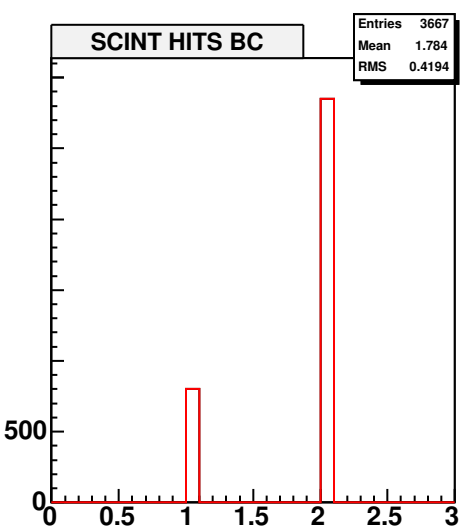




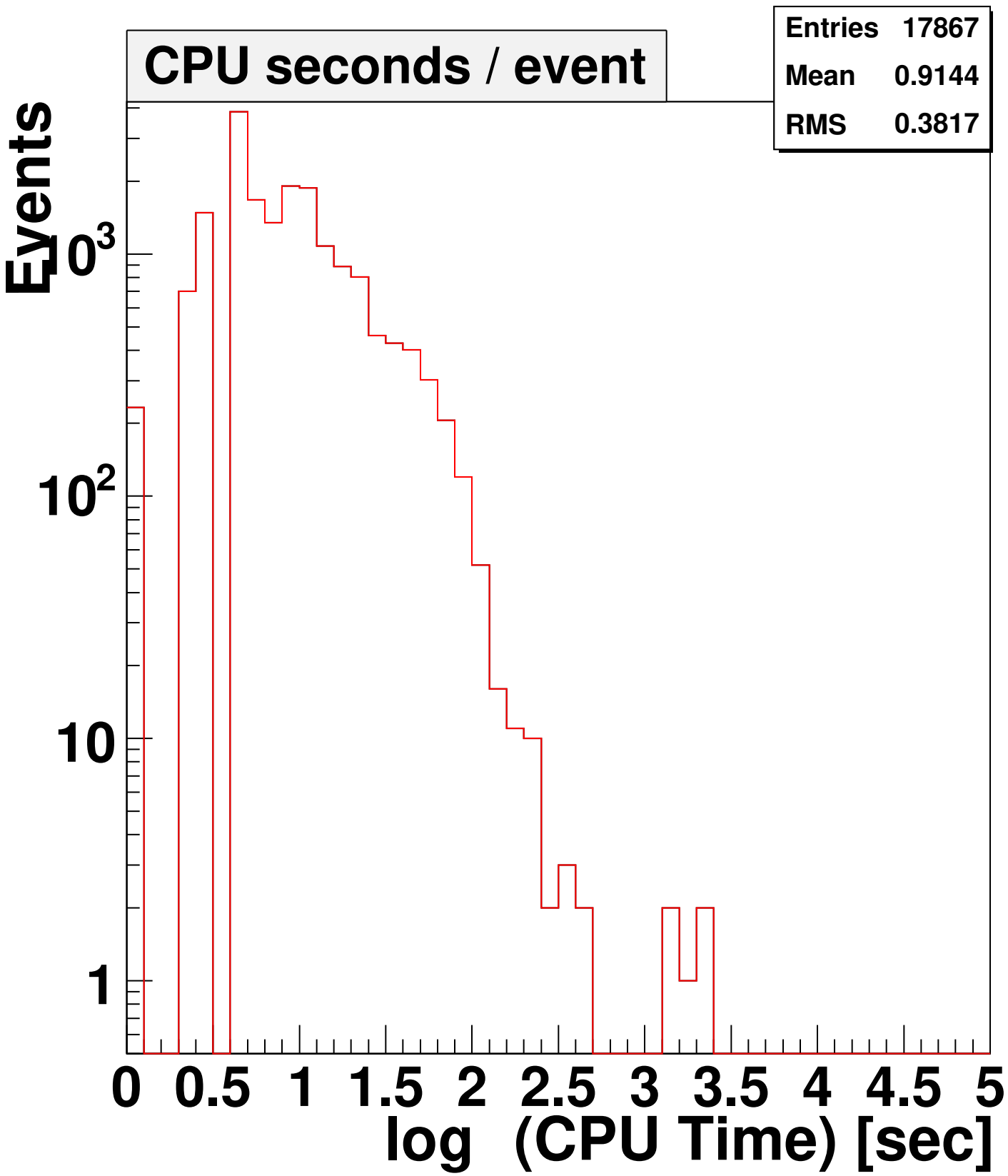








Muon Local Tracks (MediumFamus)



RECO Performance (Timing)