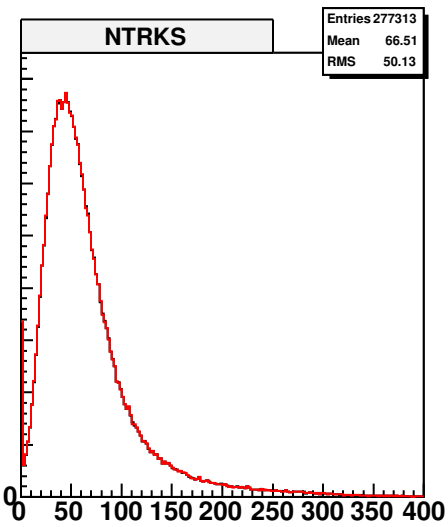
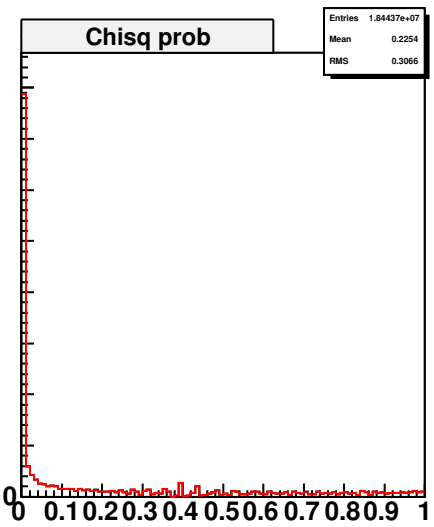
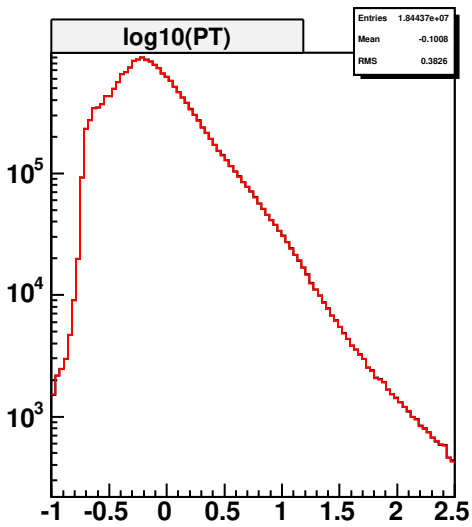
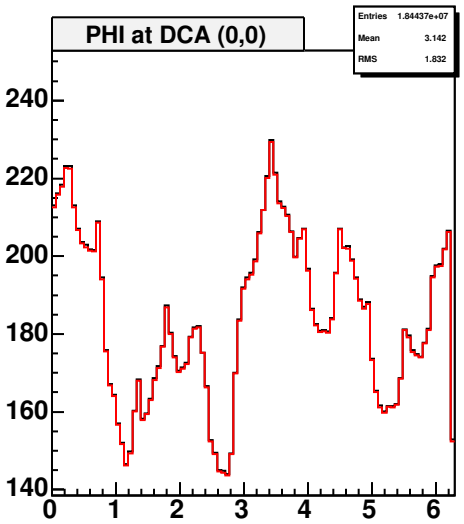
dayset-2004-06-15-194026-0_certification_

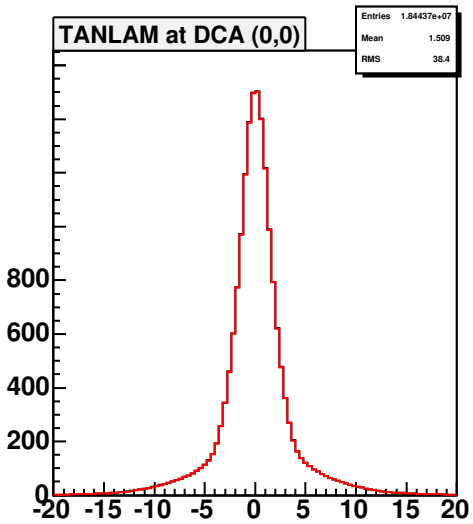
dayset-2004-06-15-194026-0_certification_

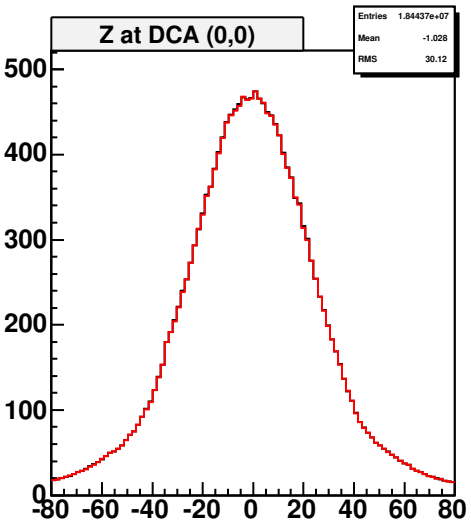

NTRKS
Entries 277313
Mean 66.51
RMS 50.13
0 50 100 150 200 250 300 350 400

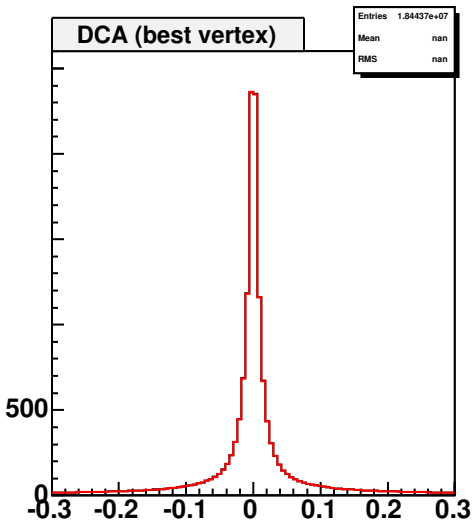

Chisq prob
Entries 1.84437e+07
Mean 0.2254
RMS 0.3066
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

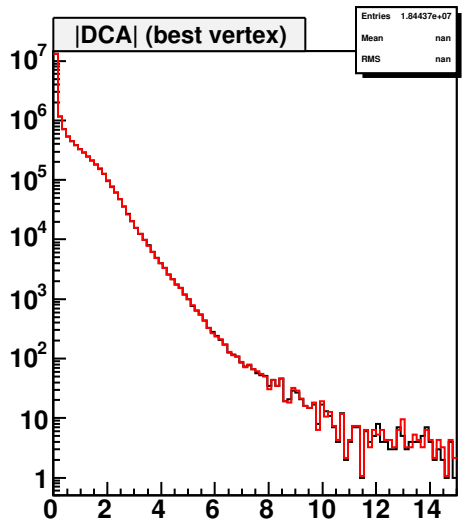

log10(PT)
Entries 1.84437e+07
Mean -0.1008
RMS 0.3826
10^5
10^4
10^3
-1 -0.5 0 0.5 1 1.5 2 2.5

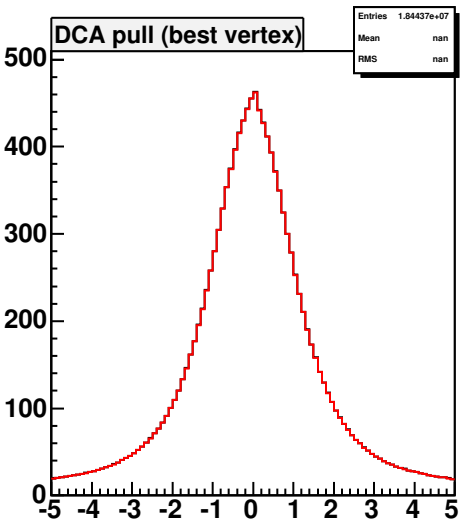

PHI at DCA (0,0)
Entries 1.84437e+07
Mean 3.142
RMS 1.832
240
220
200
180
160
140
0 1 2 3 4 5 6


TANLAM at DCA (0,0)
Entries 1.84437e+07
Mean 1.509
RMS 38.4
800
600
400
200
0
-20 -15 -10 -5 0 5 10 15 20

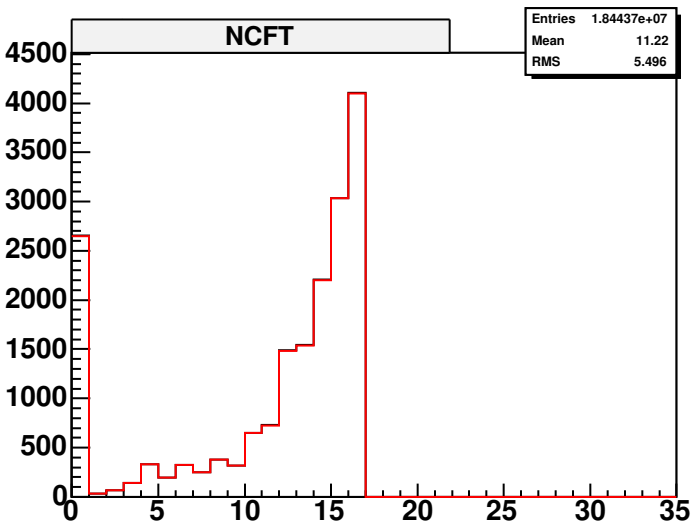

Z at DCA (0,0)
Entries 1.84437e+07
Mean -1.028
RMS 30.12
500
400
300
200
100
0
-80 -60 -40 -20 0 20 40 60 80

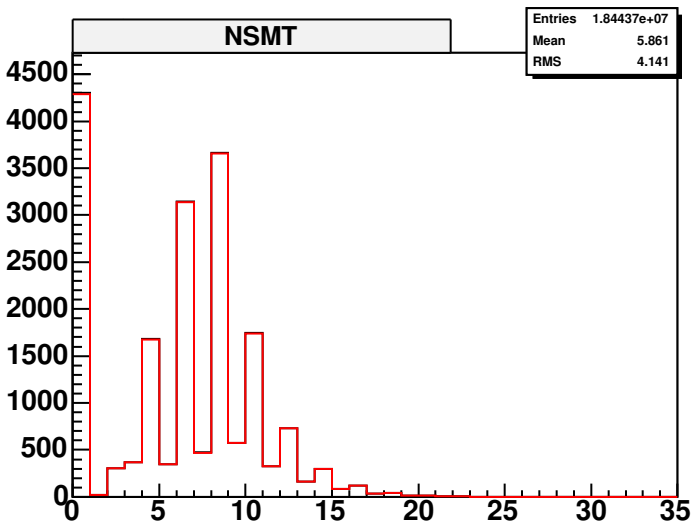

DCA (best vertex)
Entries 1.84437e+07
Mean nan
RMS nan
500
0
-0.3 -0.2 -0.1 0 0.1 0.2 0.3

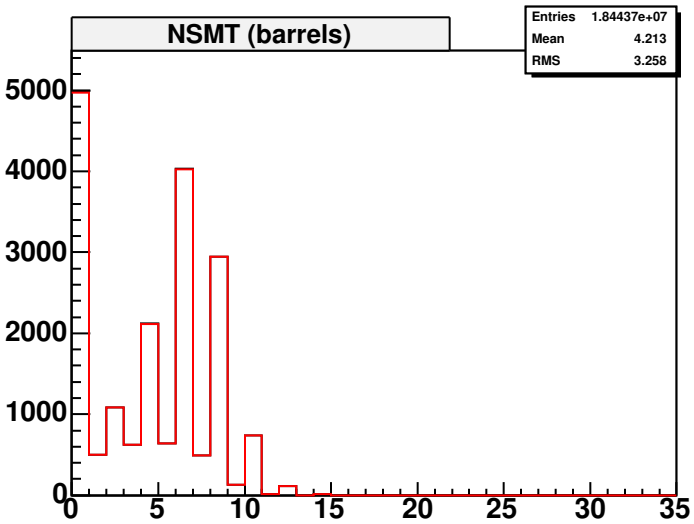

|DCA| (best vertex)
Entries 1.84437e+07
Mean nan
RMS nan
10^7
10^6
10^5
10^4
10^3
10^2
10
1
0 2 4 6 8 10 12 14

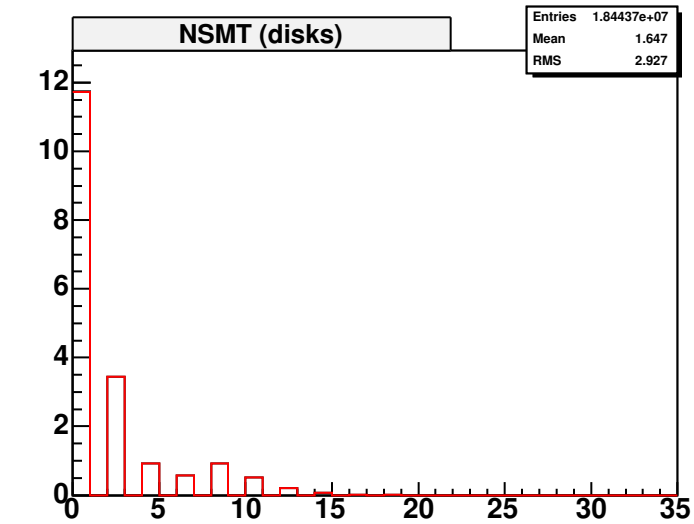

DCA pull (best vertex)
Entries 1.84437e+07
Mean nan
RMS nan
500
400
300
200
100
0
-5 -4 -3 -2 -1 0 1 2 3 4 5

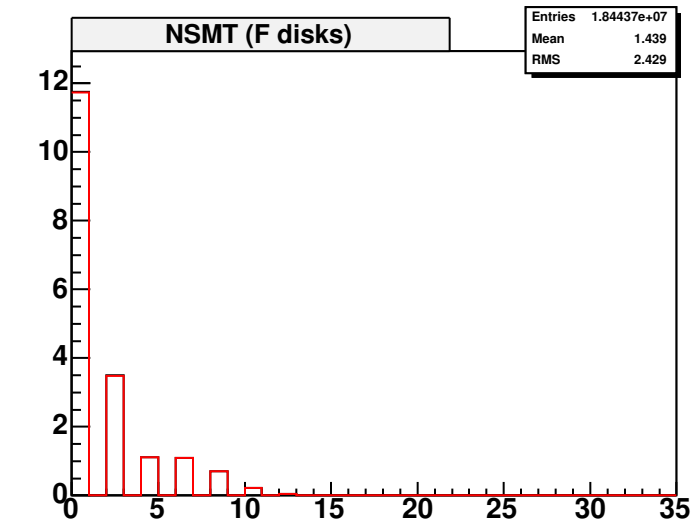
Tracks (All)

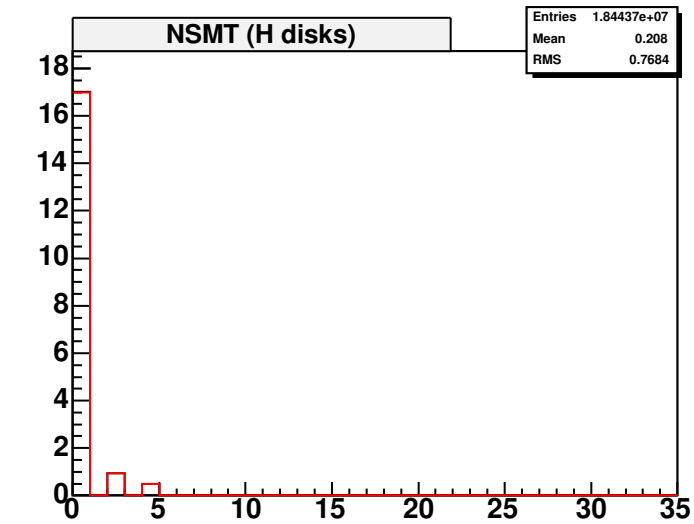




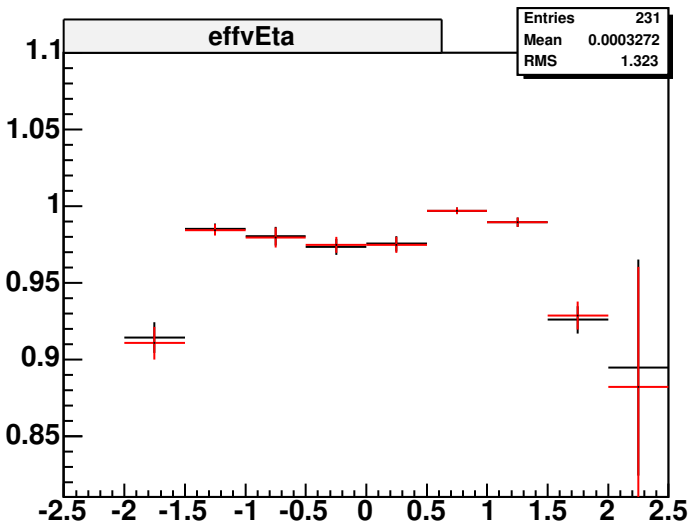


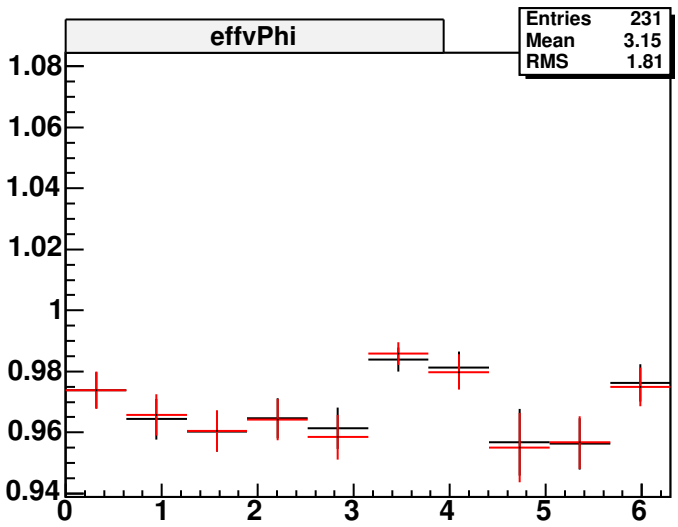


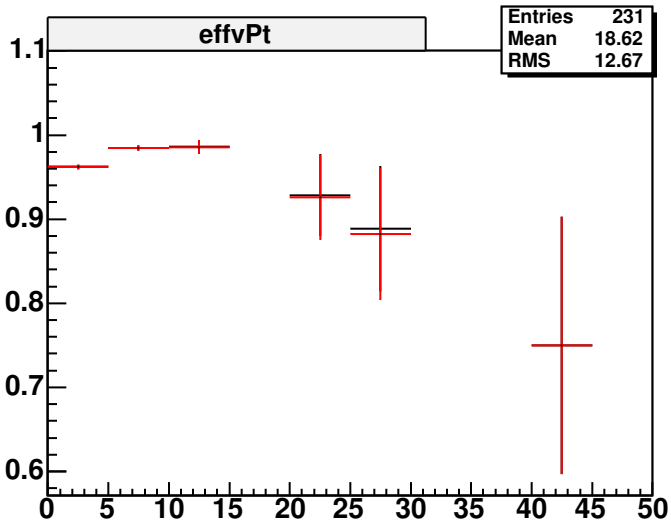


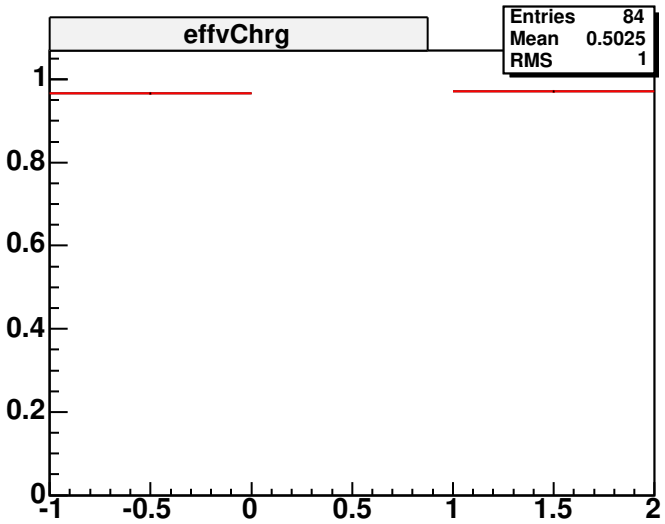


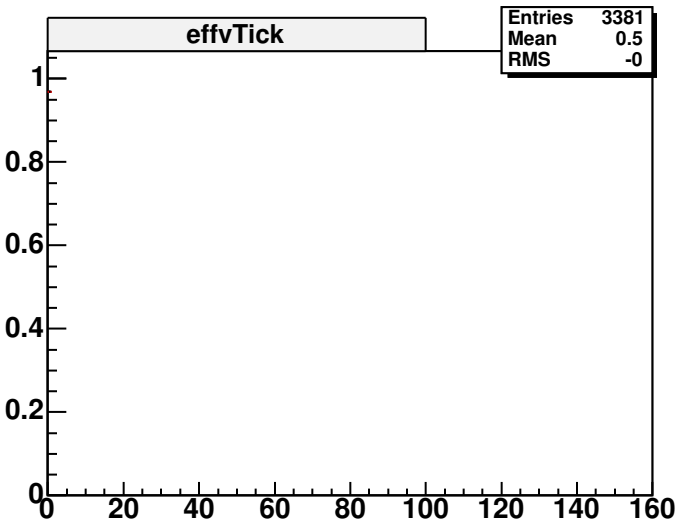
Track Hits (All)

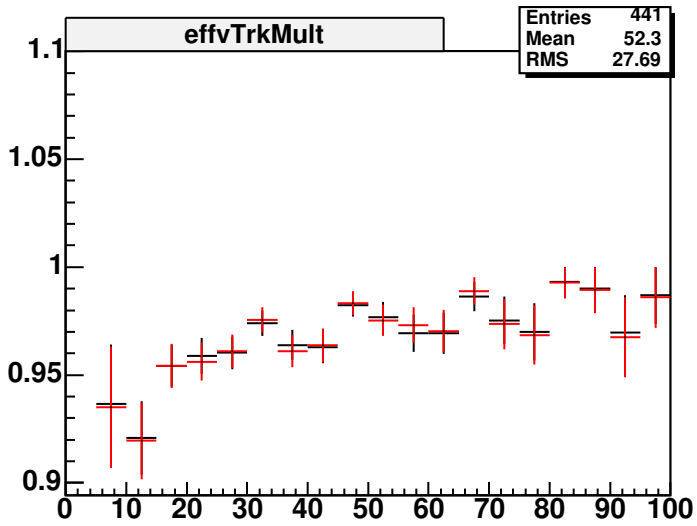




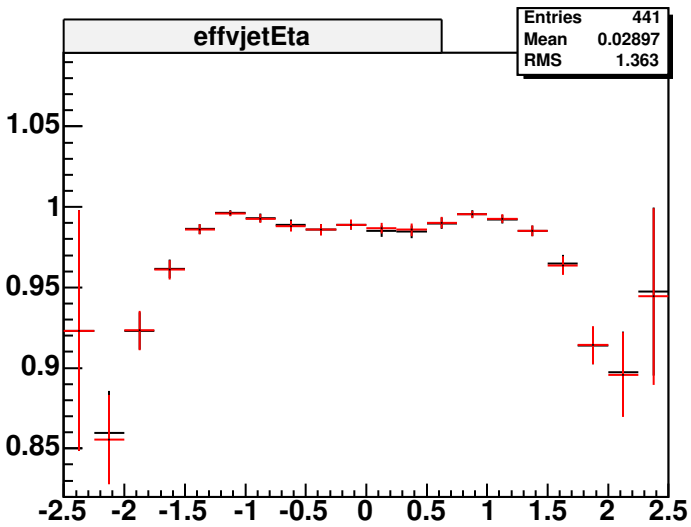


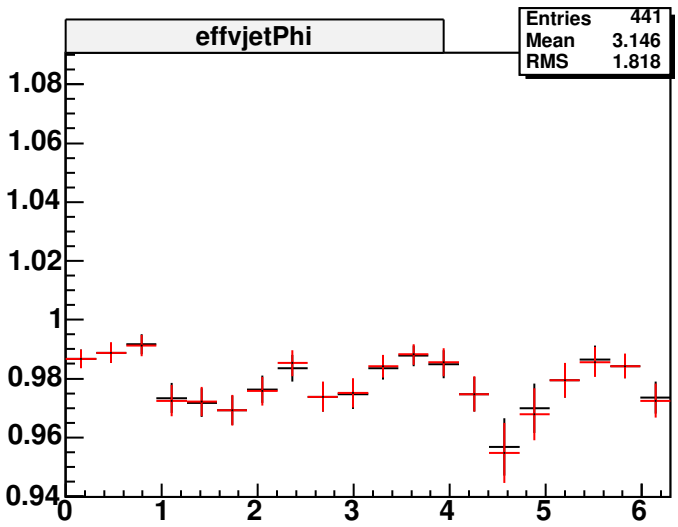


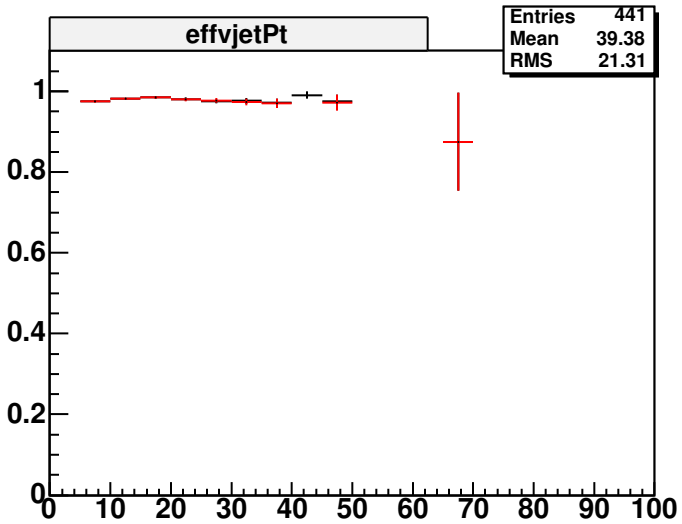




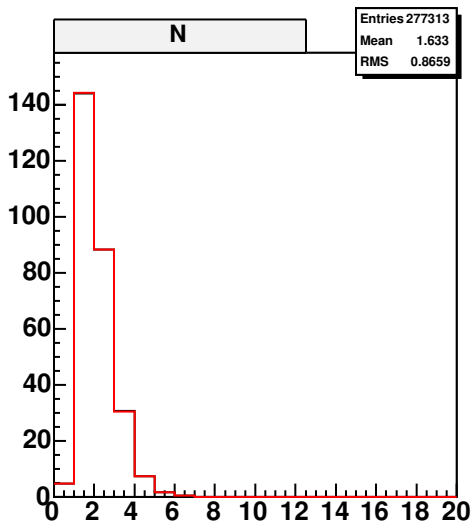
Tracking (Efficiency-Isolated)

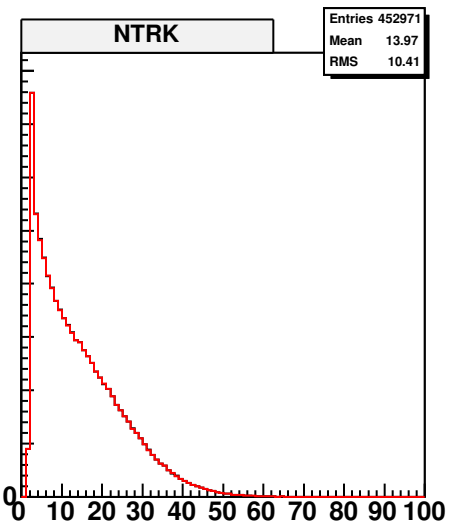


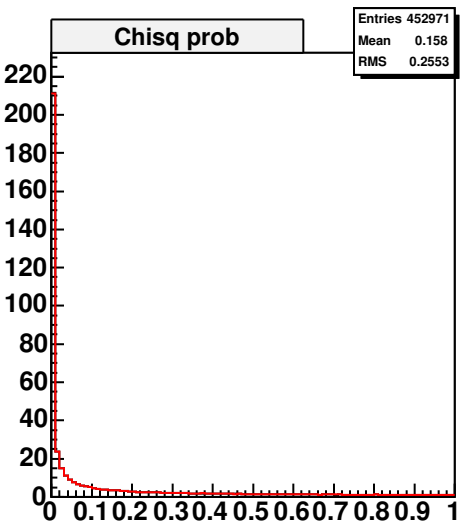


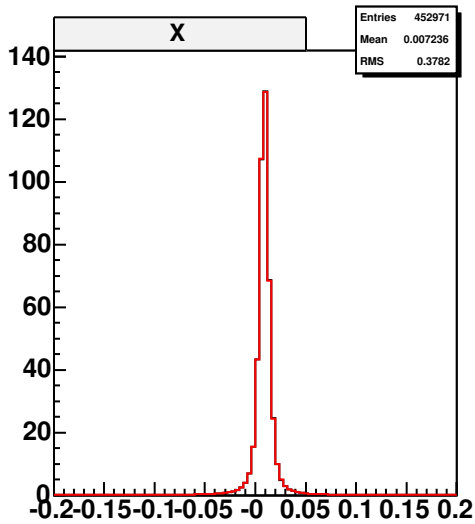


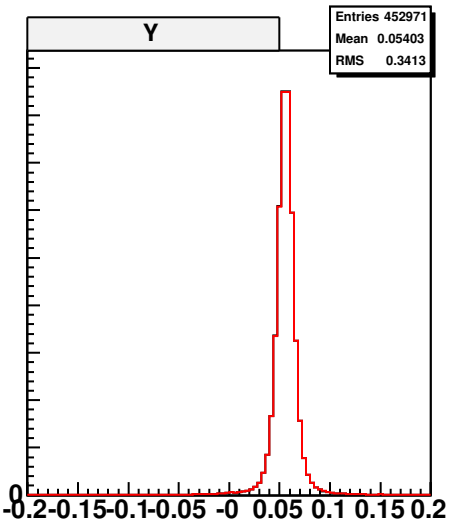
Tracking (Efficiency-InJets)

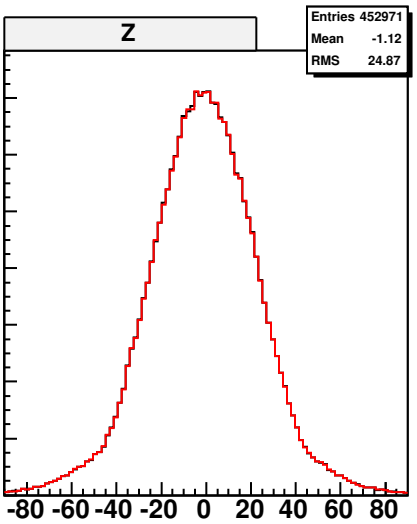


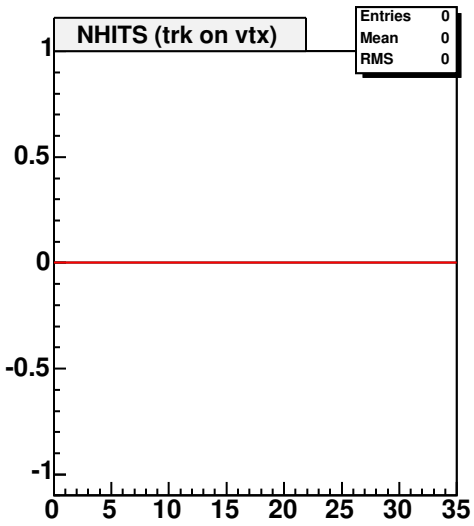


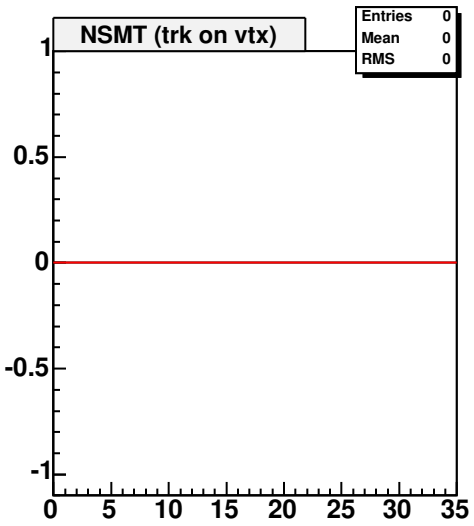


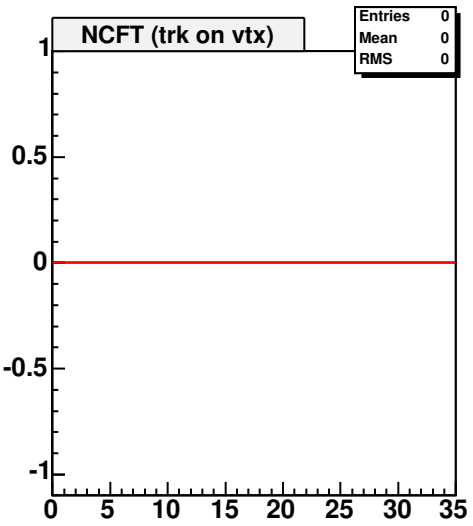




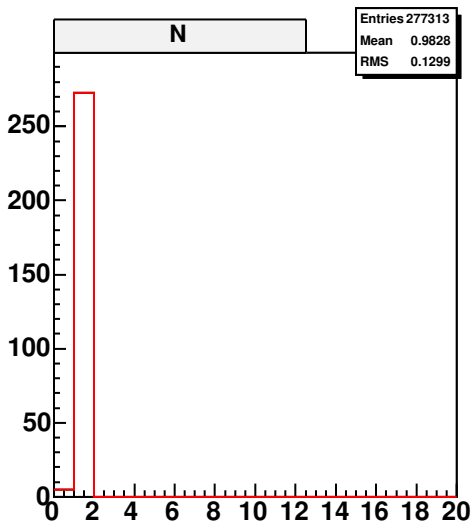


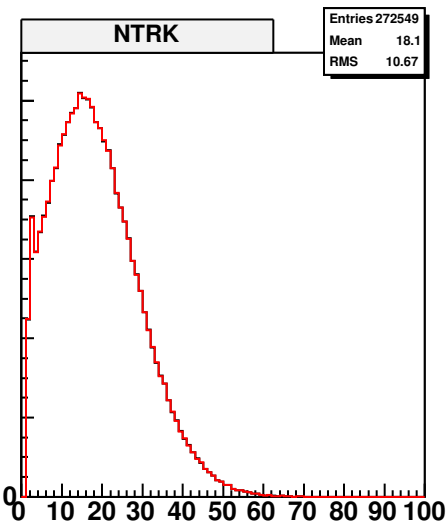


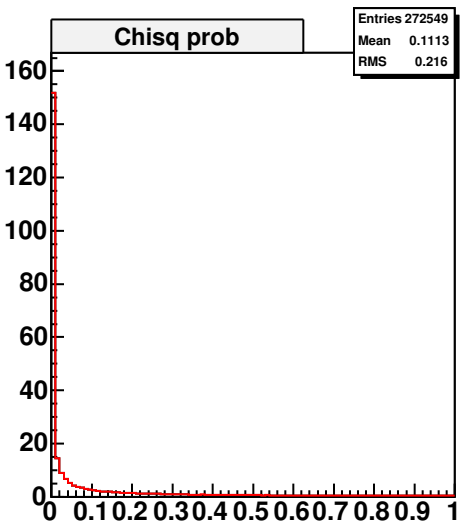


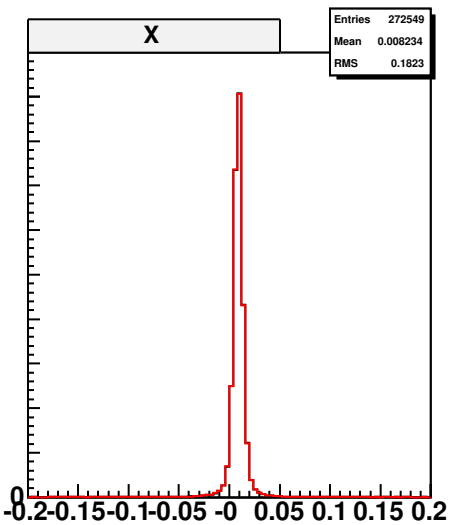


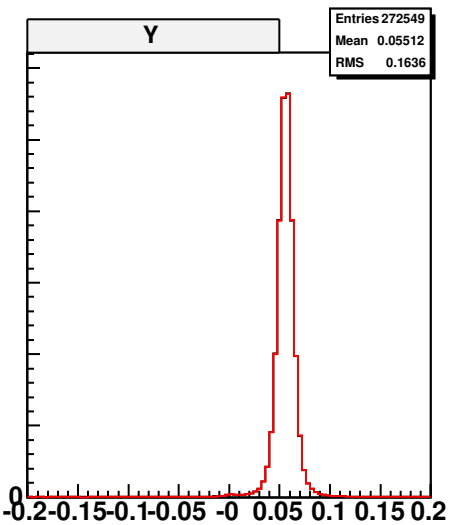
Vertices (Primary - all candidates)

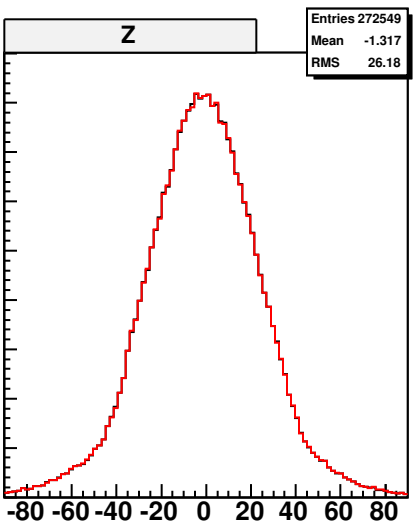


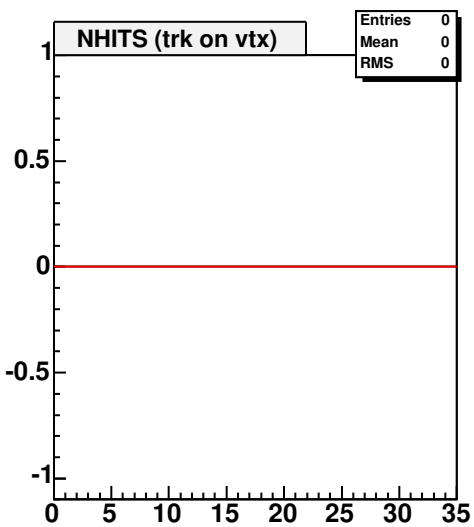


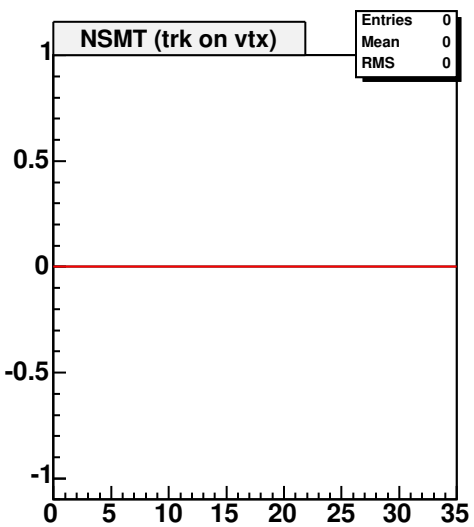


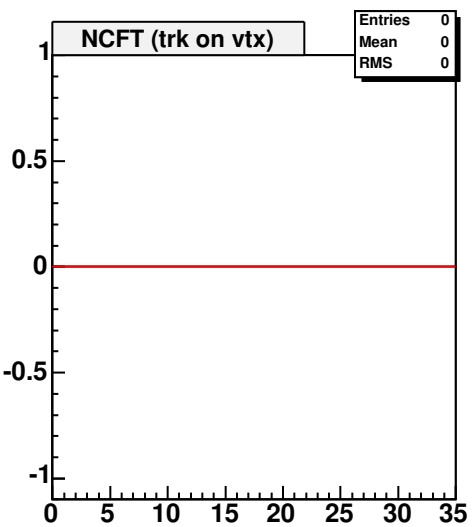




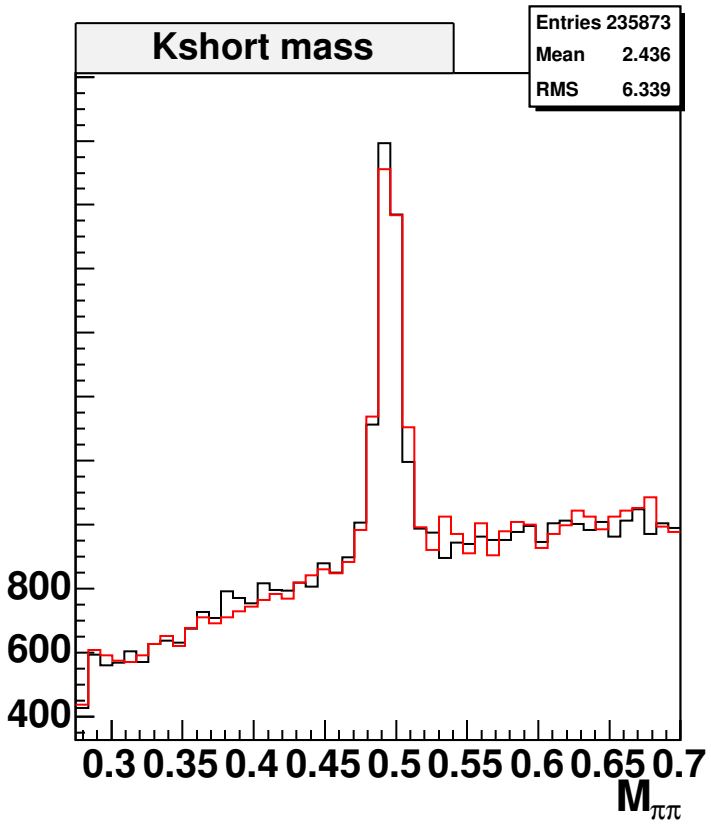


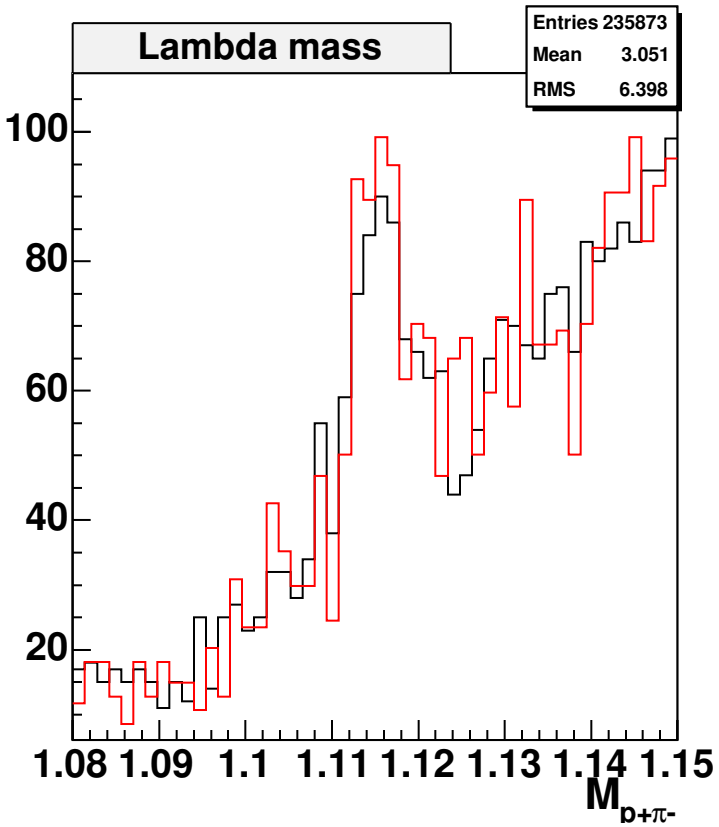


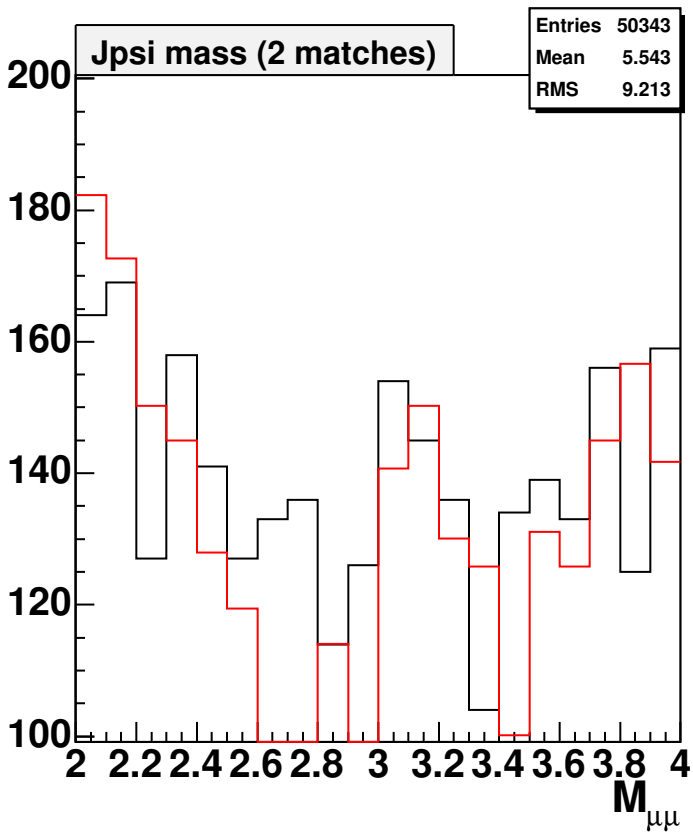


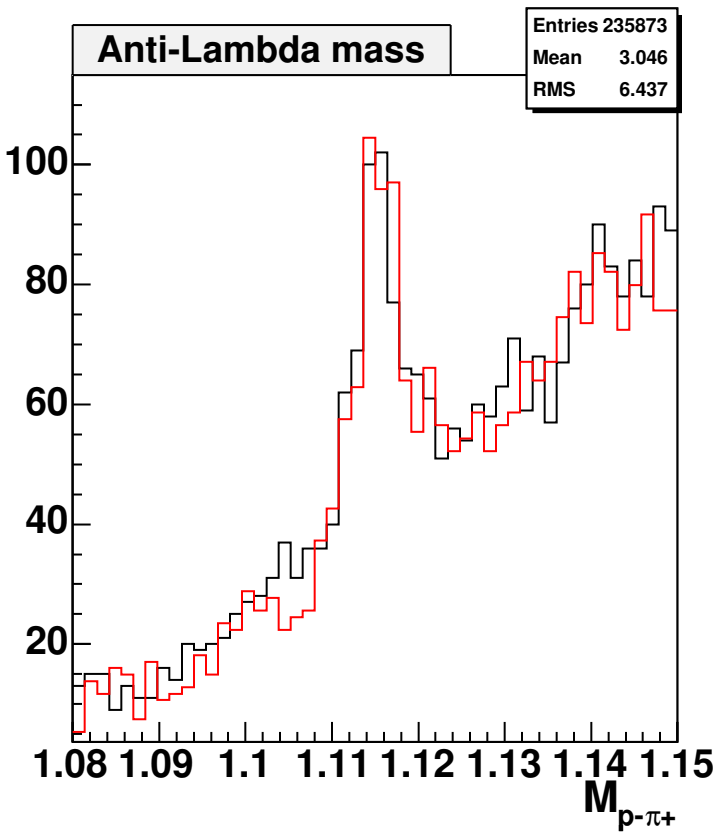


Vertices (Primary - best)

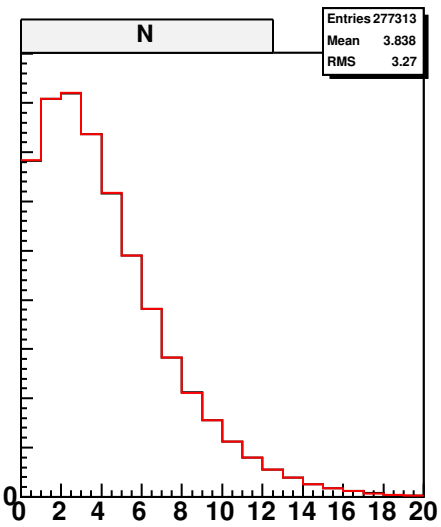

Kshort mass
Entries 235873
Mean 2.436
RMS 6.339
800
600
400
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

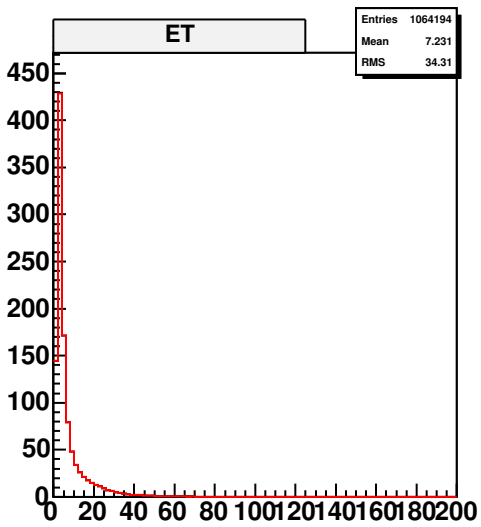

Lambda mass
Entries 235873
Mean 3.051
RMS 6.398
100
80
60
40
20
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

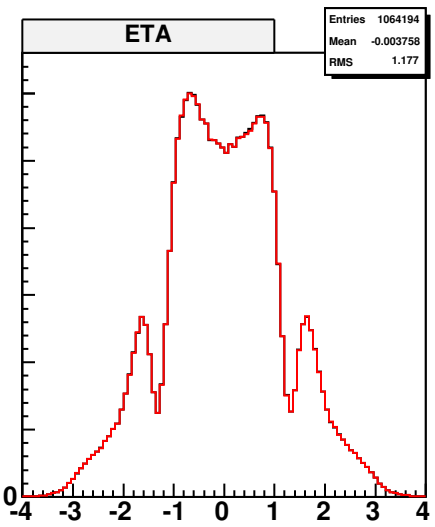

Jpsi mass (2 matches)
Entries 50343
Mean 5.543
RMS 9.213
200
180
160
140
120
100
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

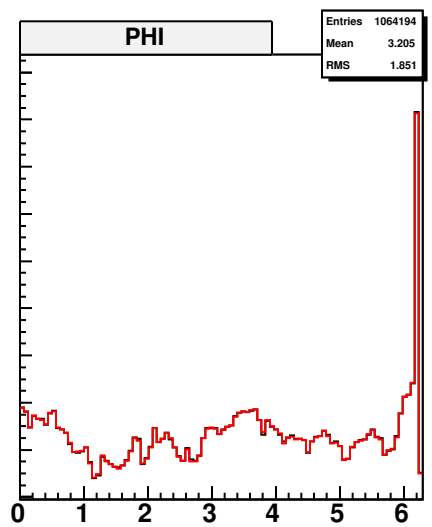

Anti-Lambda mass
Entries 235873
Mean 3.046
RMS 6.437
100
80
60
40
20
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

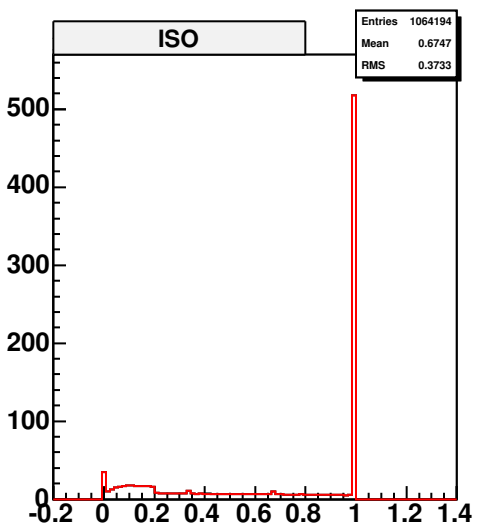
V0 (All)

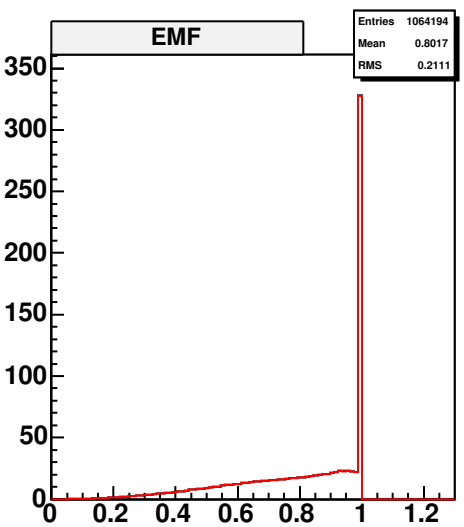


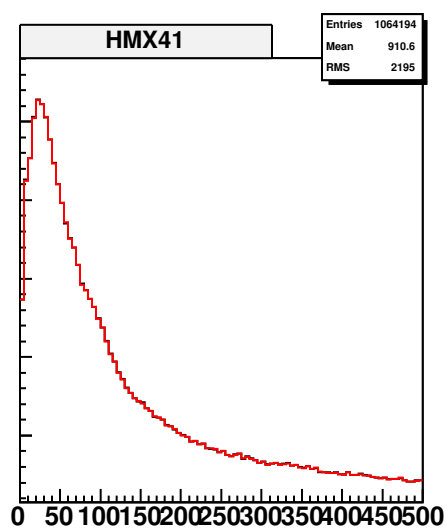


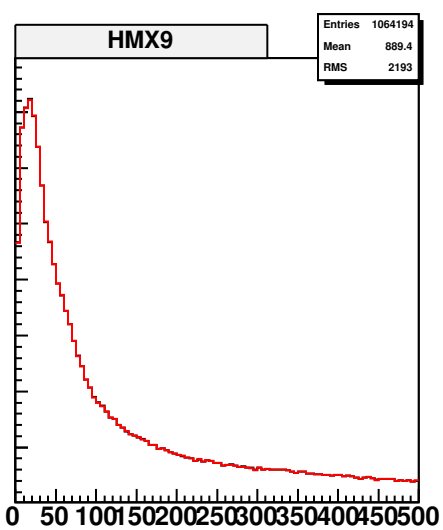


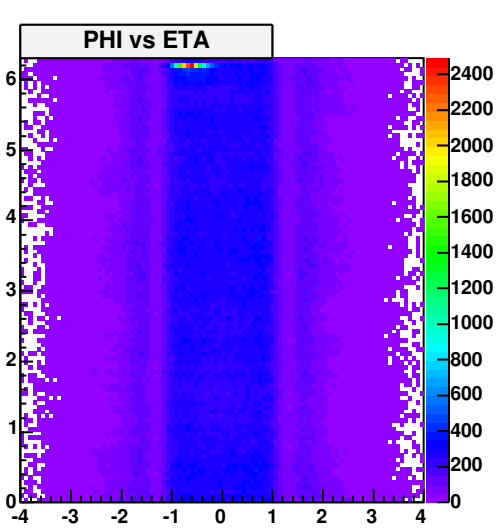




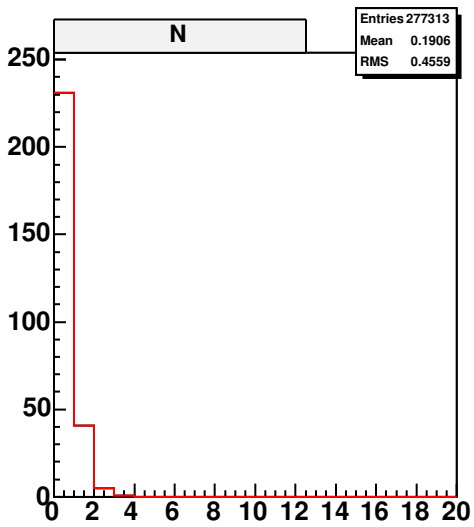


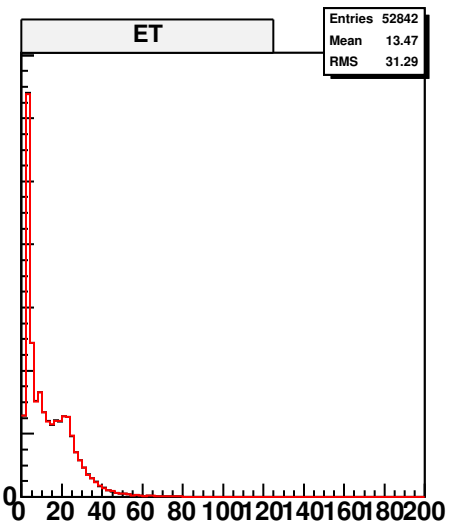


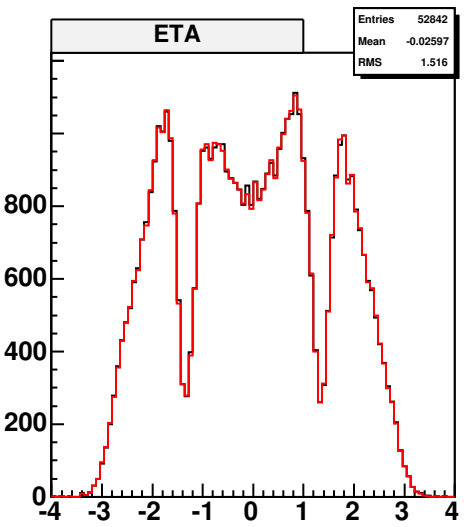


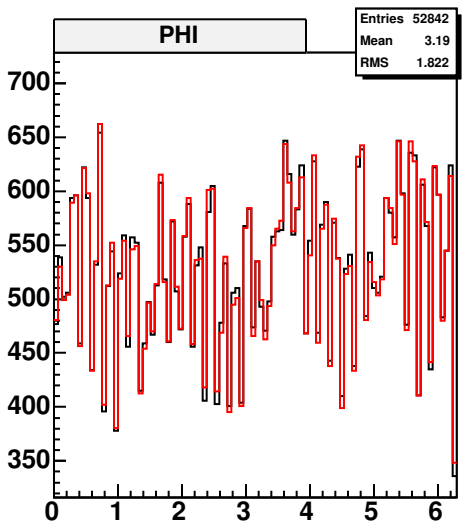


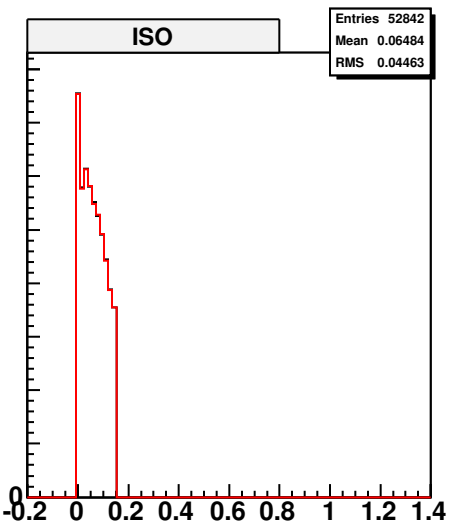
Electrons (SCONE All)

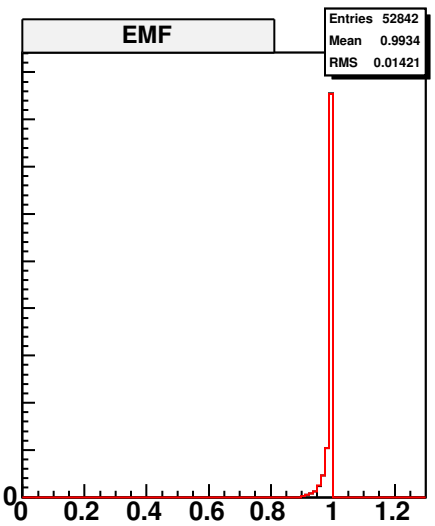


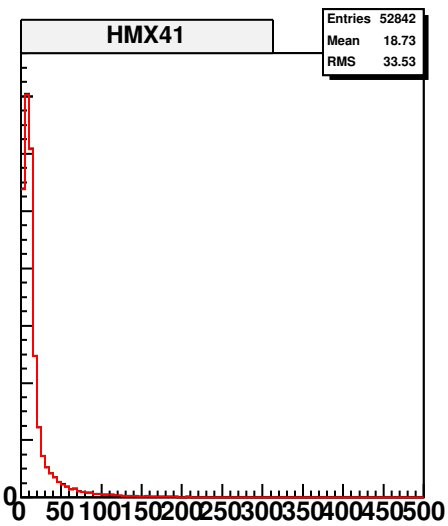


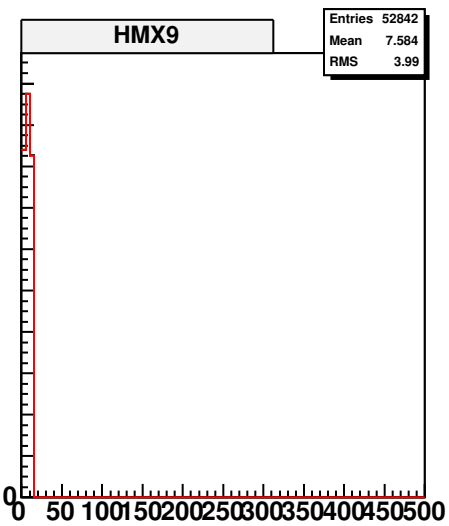


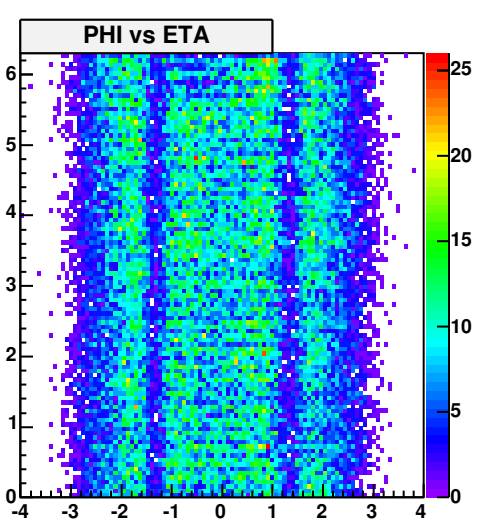




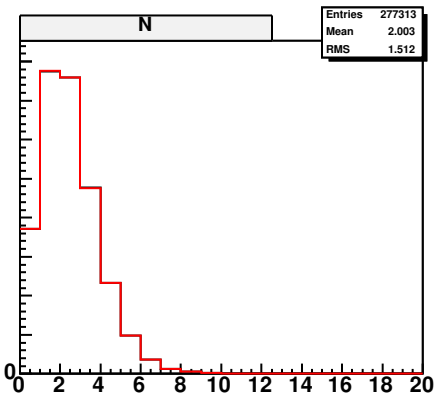


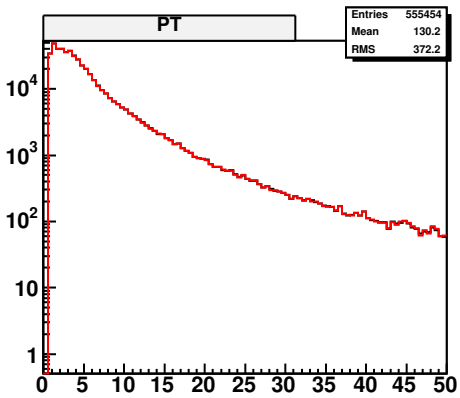


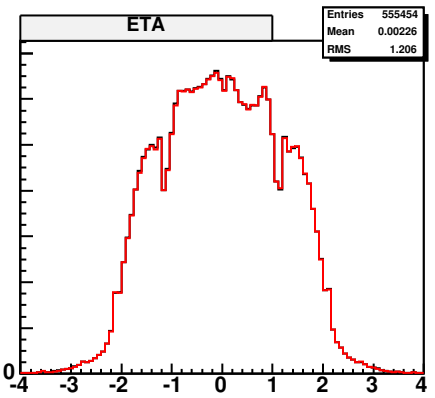


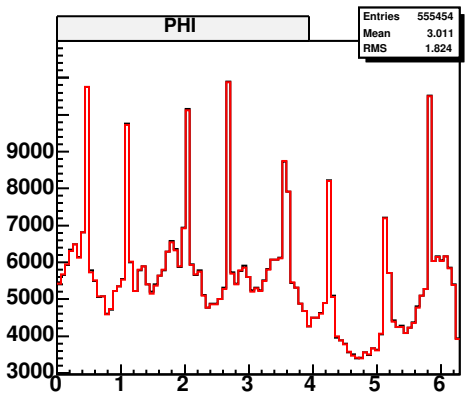


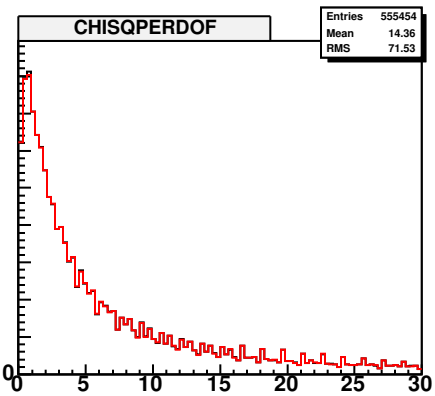
Electrons (SCONE Tight)

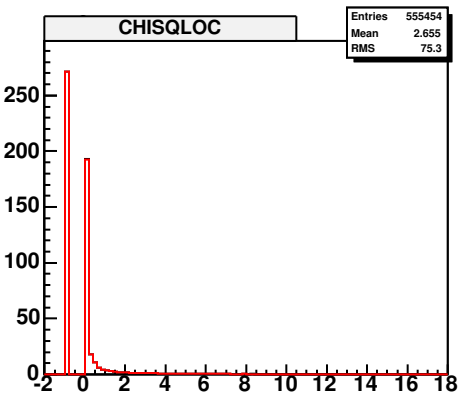

N
Entries 277313
Mean 2.003
RMS 1.512

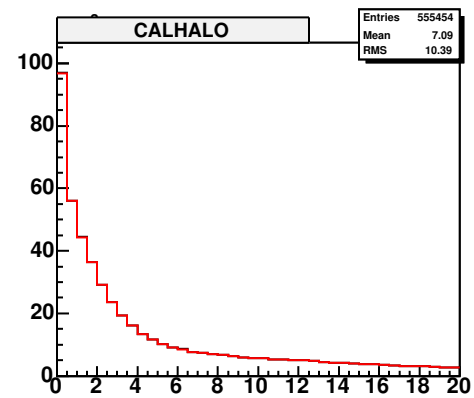

PT
Entries 555454
Mean 130.2
RMS 372.2

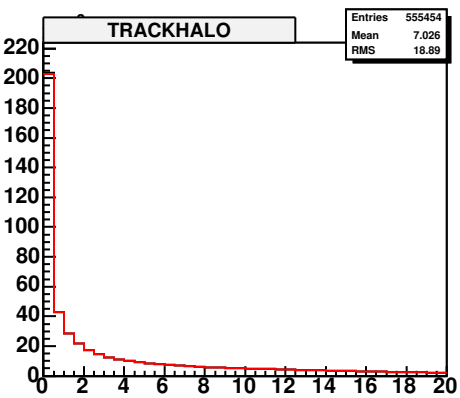

ETA
Entries 555454
Mean 0.00226
RMS 1.206

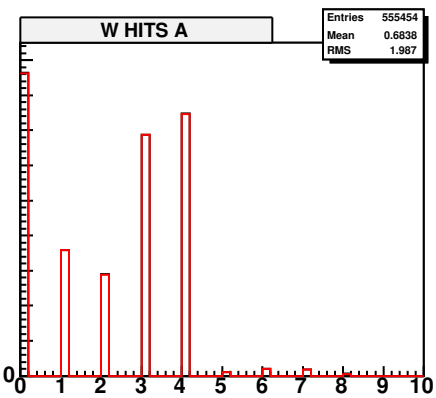

PHI
Entries 555454
Mean 3.011
RMS 1.824

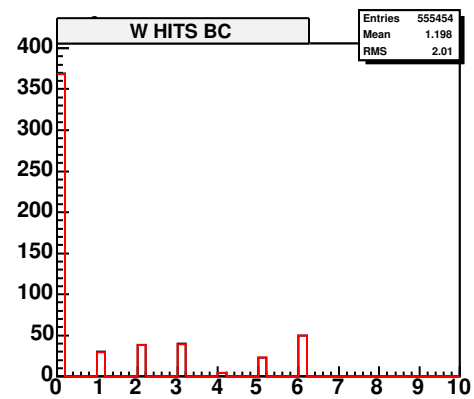

CHISQPERDOF
Entries 555454
Mean 14.36
RMS 71.53

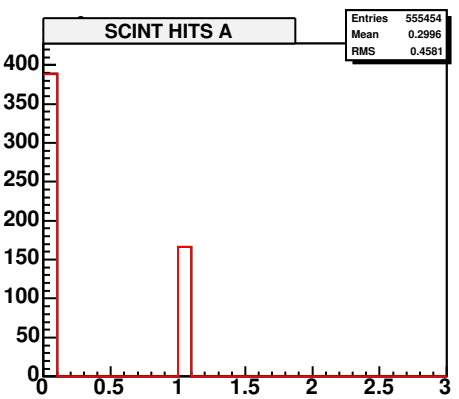

CHISQLOC
Entries 555454
Mean 2.655
RMS 75.3

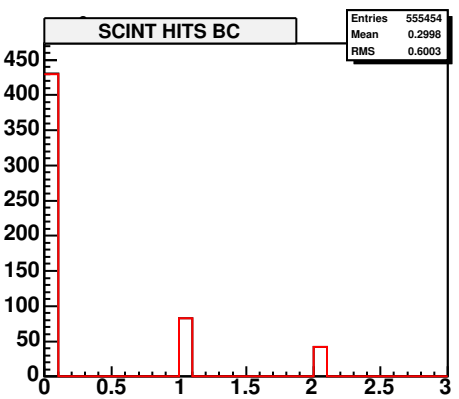

CALHALO
Entries 555454
Mean 7.09
RMS 10.39


TRACKHALO
Entries 555454
Mean 7.026
RMS 18.89

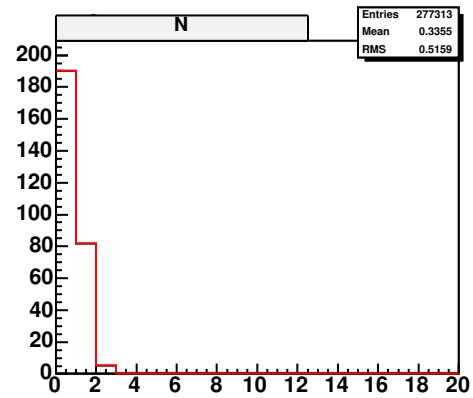

W HITS A
Entries 555454
Mean 0.6838
RMS 1.987

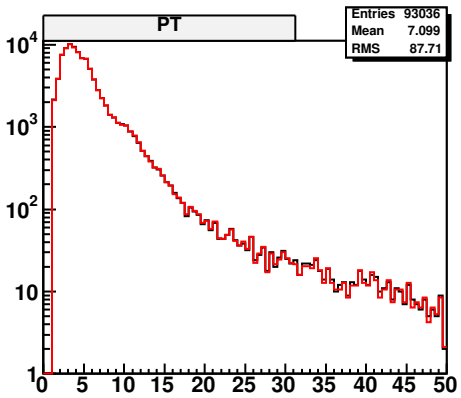

W HITS BC
Entries 555454
Mean 1.198
RMS 2.01

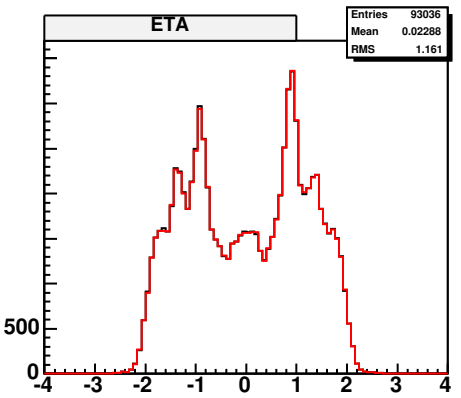

SCINT HITS A
Entries 555454
Mean 0.2996
RMS 0.4581

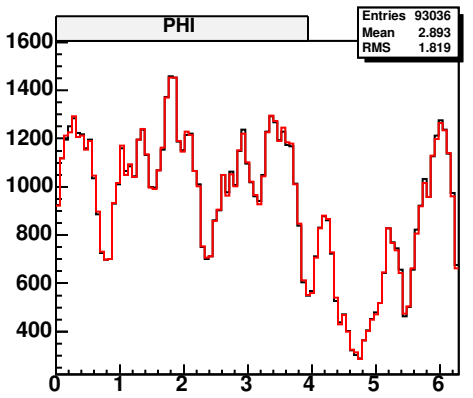

SCINT HITS BC
Entries 555454
Mean 0.2998
RMS 0.6003

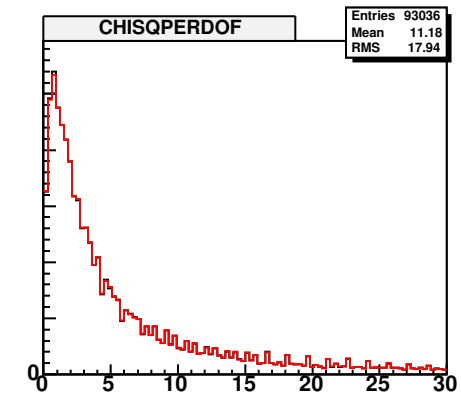
Muons (All)

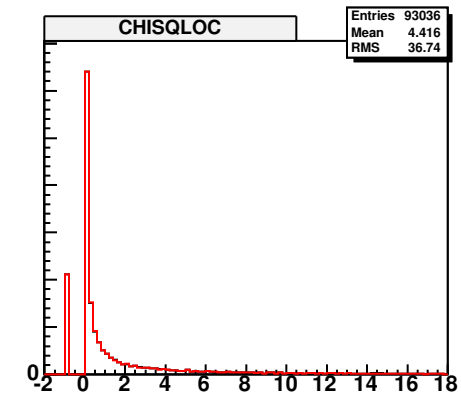


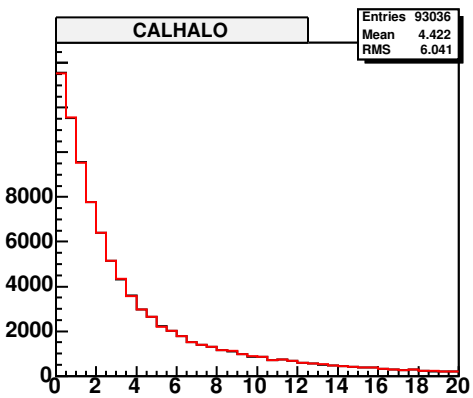


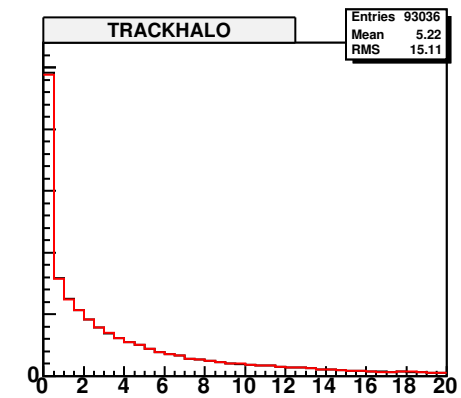


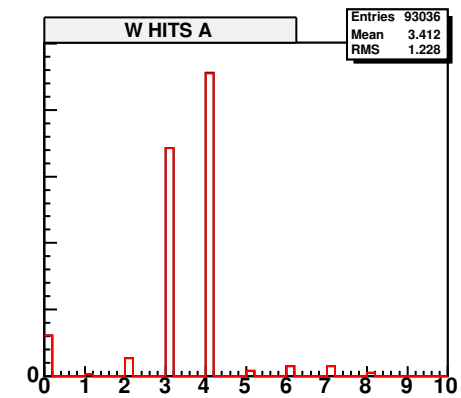


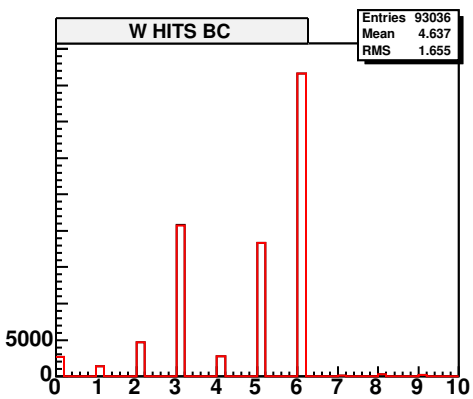


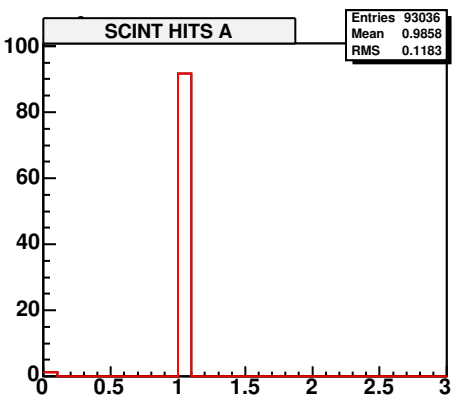


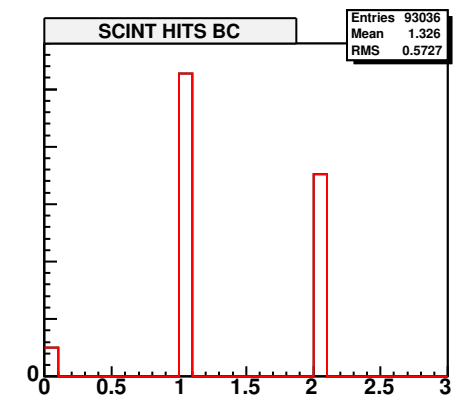




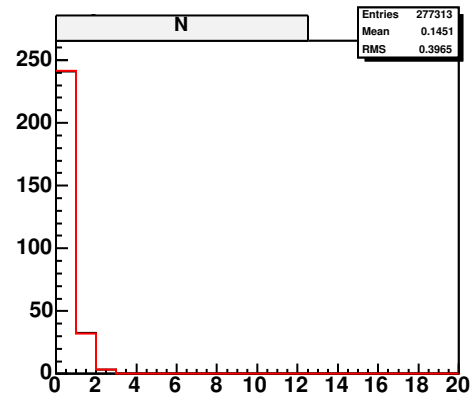


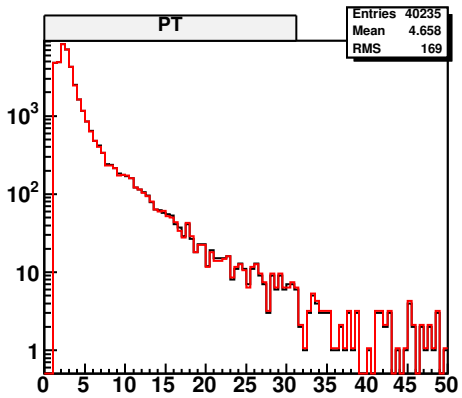


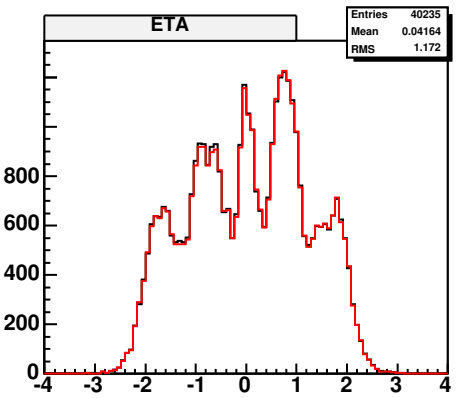


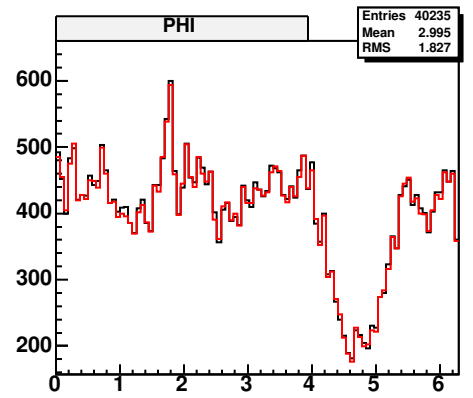


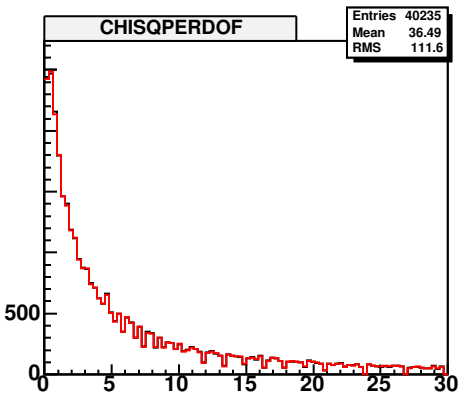
Muons (Matched)

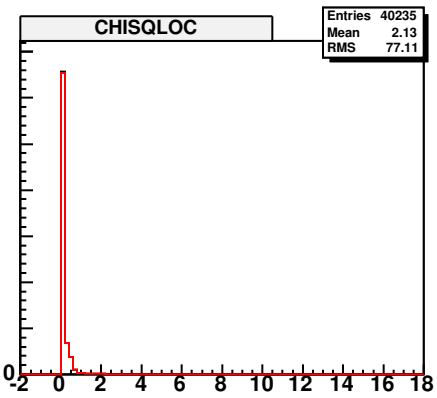

N
Entries 277313
Mean 0.1451
RMS 0.3965

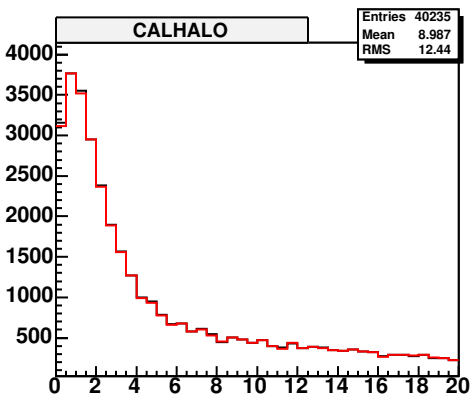

PT
Entries 40235
Mean 4.658
RMS 169

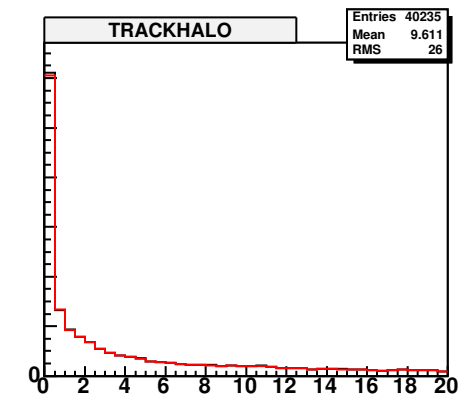

ETA
Entries 40235
Mean 0.04164
RMS 1.172

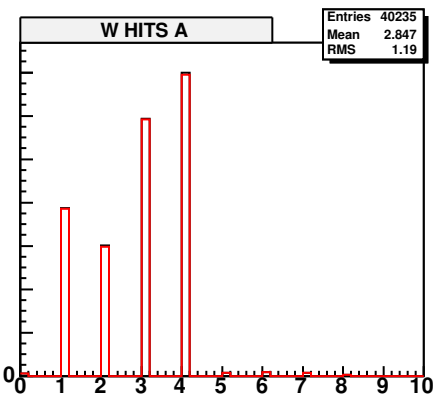

PHI
Entries 40235
Mean 2.995
RMS 1.827

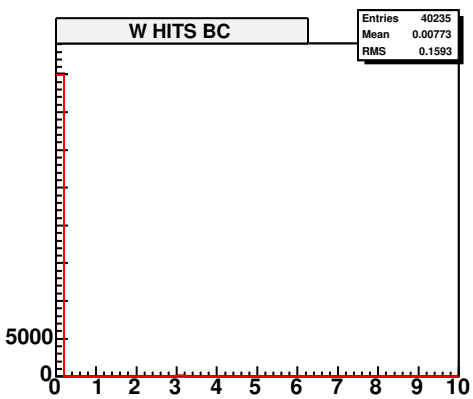

CHISQPERDOF
Entries 40235
Mean 36.49
RMS 111.6

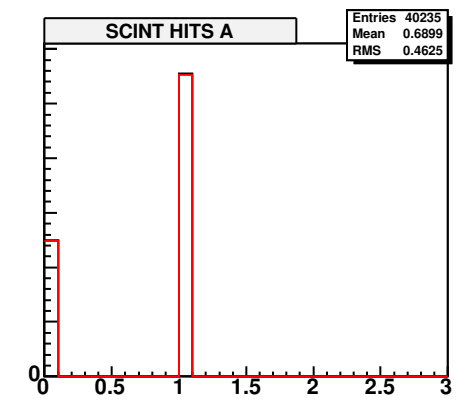

CHISQLOC
Entries 40235
Mean 2.13
RMS 77.11

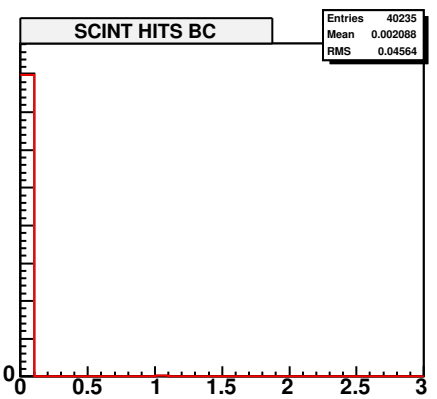

CALHALO
Entries 40235
Mean 8.987
RMS 12.44


TRACKHALO
Entries 40235
Mean 9.611
RMS 26

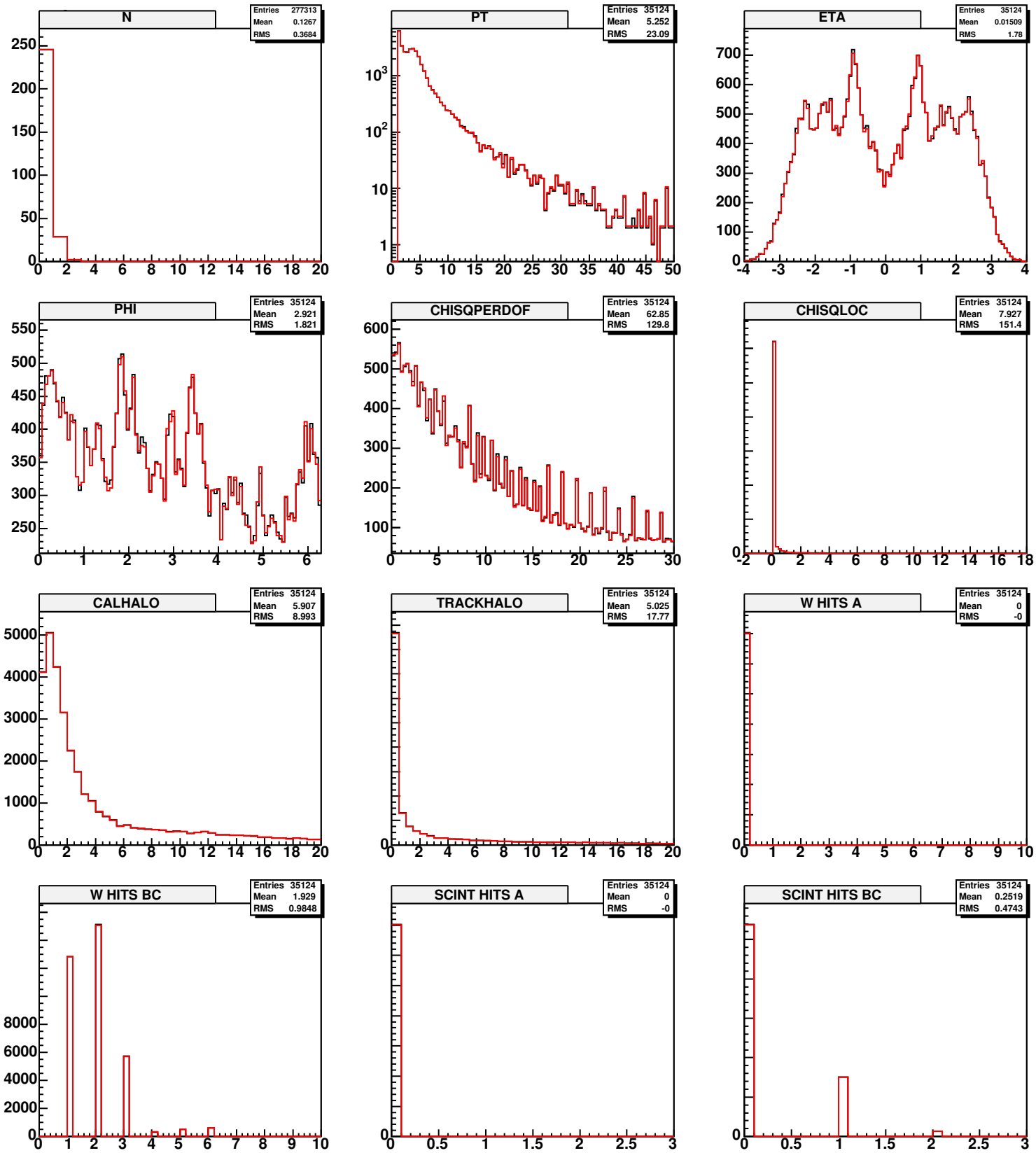

W HITS A
Entries 40235
Mean 2.847
RMS 1.19


W HITS BC
Entries 40235
Mean 0.00773
RMS 0.1593

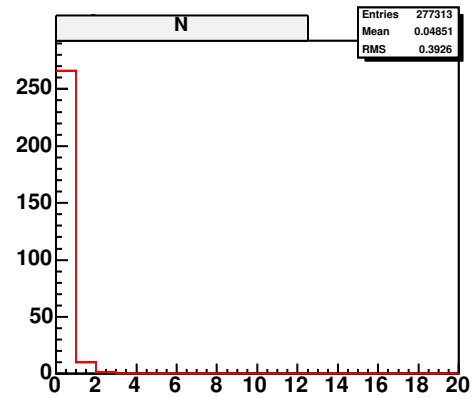

SCINT HITS A
Entries 40235
Mean 0.6899
RMS 0.4625

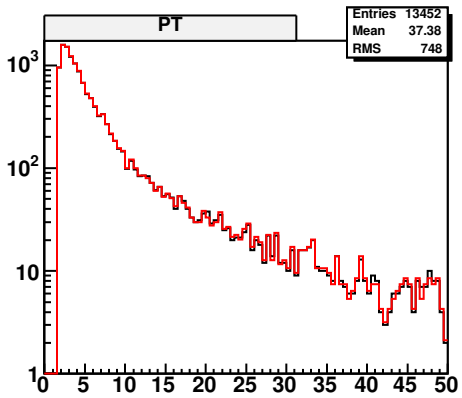

SCINT HITS BC
Entries 40235
Mean 0.002088
RMS 0.04564

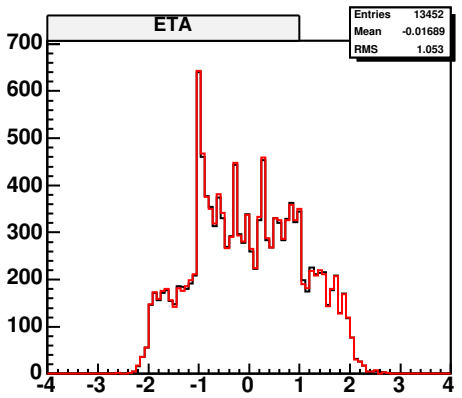
Muons (Astub)

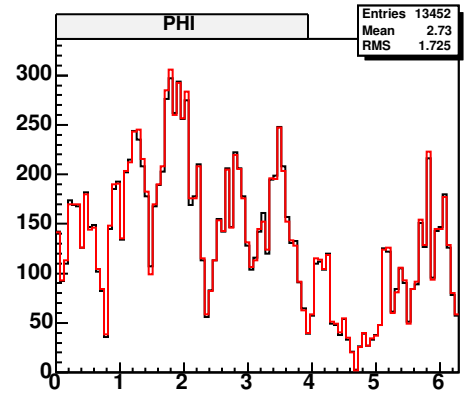


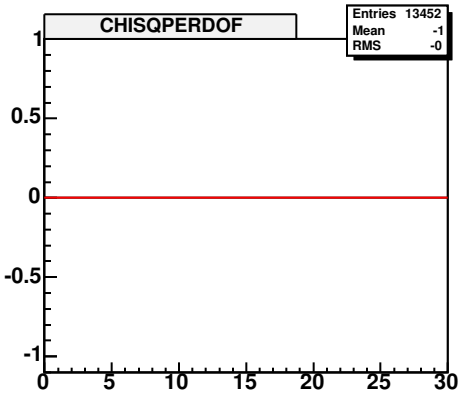
Muons (BCstub)

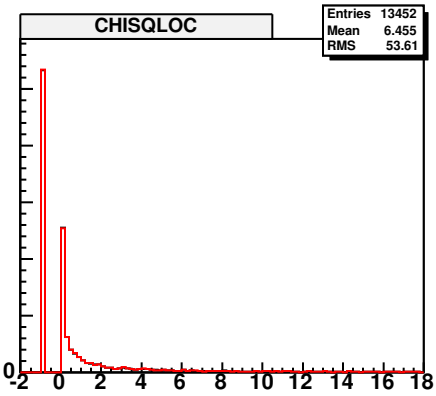


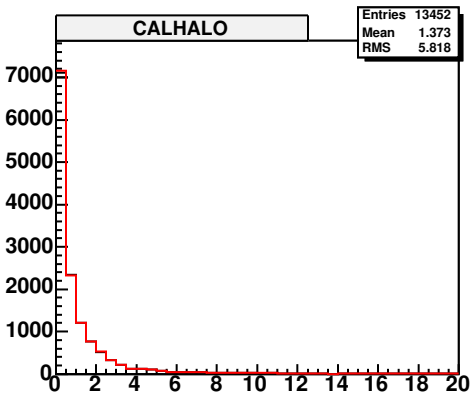


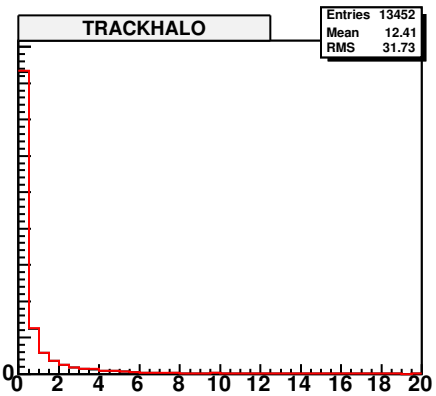


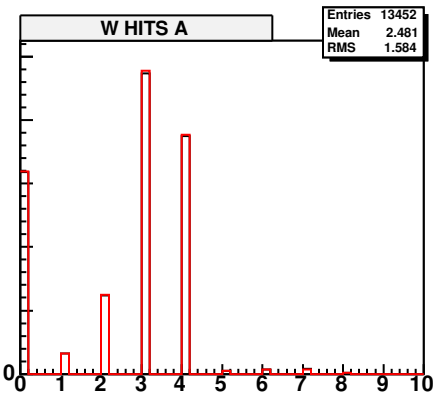


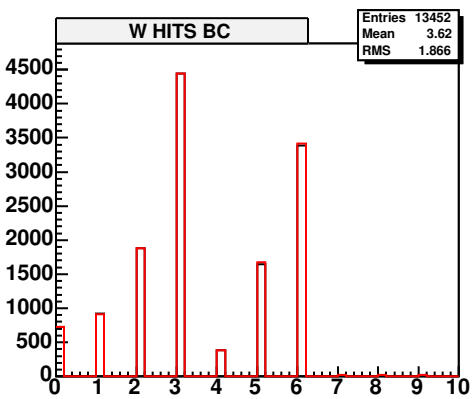


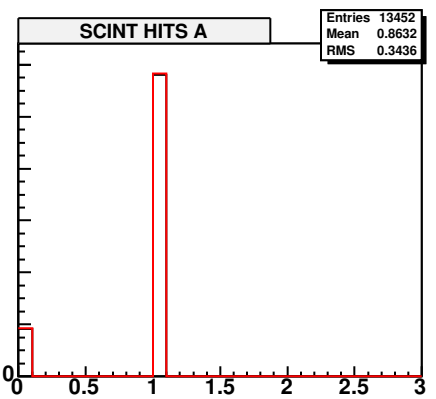


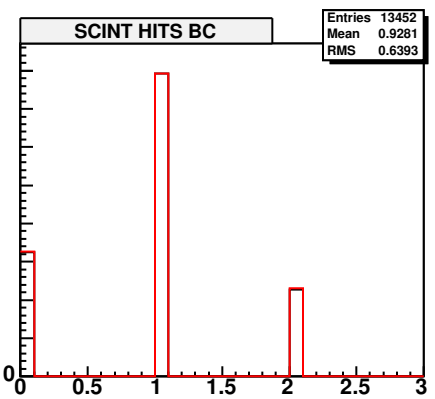




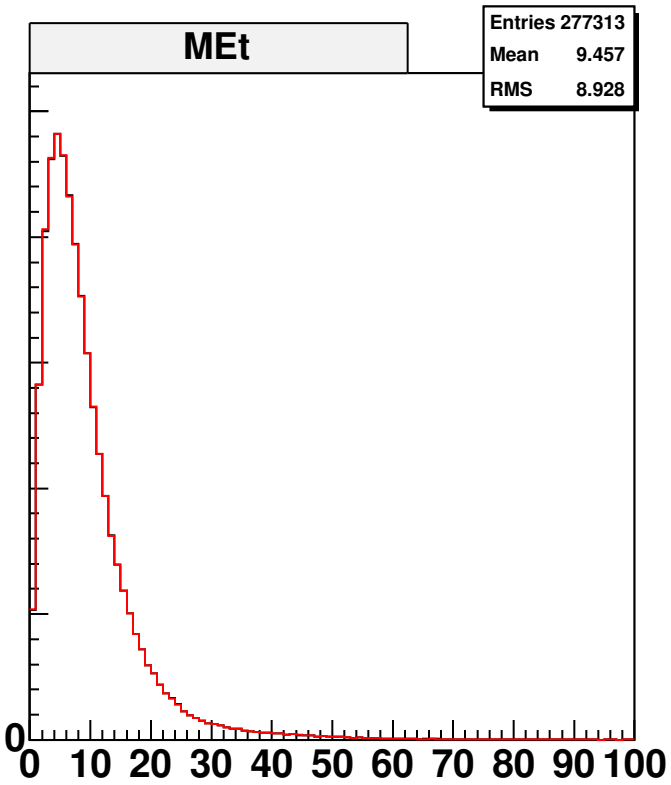








Muons (Unmatched)


MEt
Entries 277313
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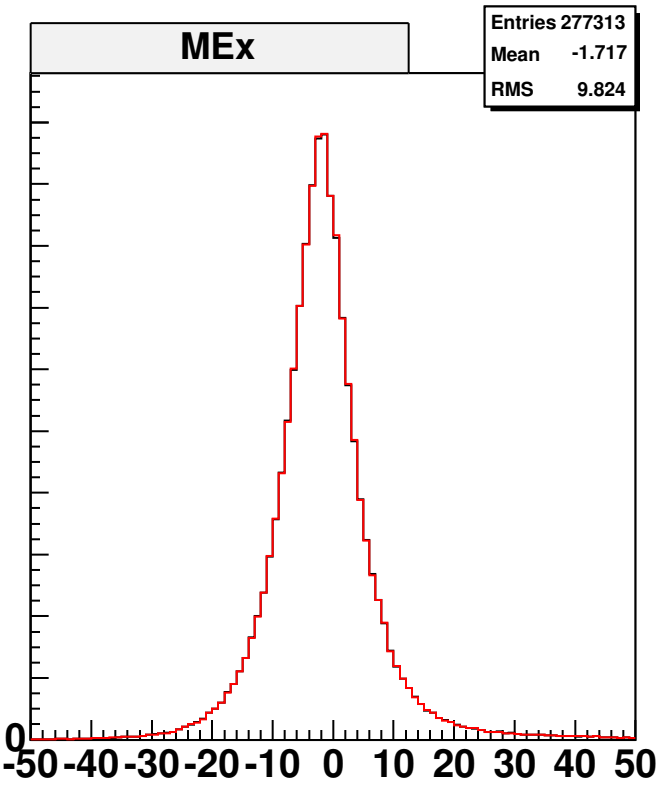
RMS 8.928
0
0 10 20 30 40 50 60 70 80 90 100


MEx
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Mean -1.717
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0
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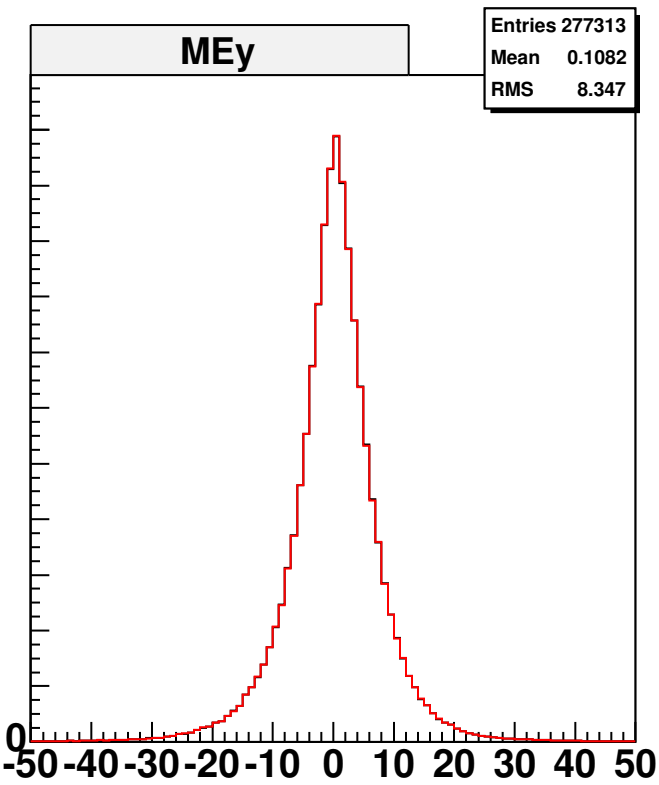
MEy
Entries 277313
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RMS 8.347
0
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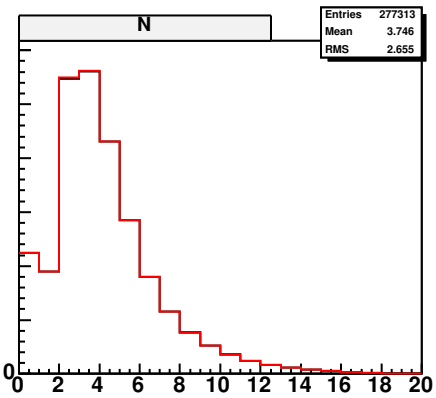
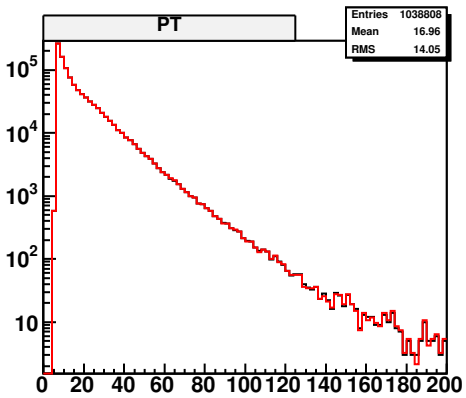
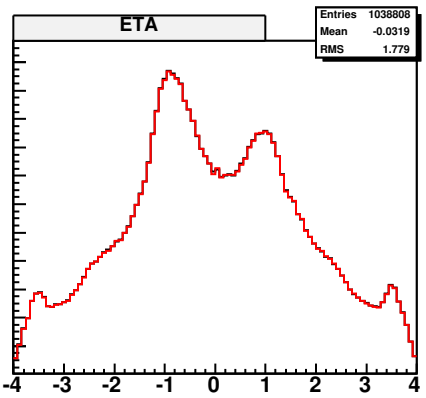
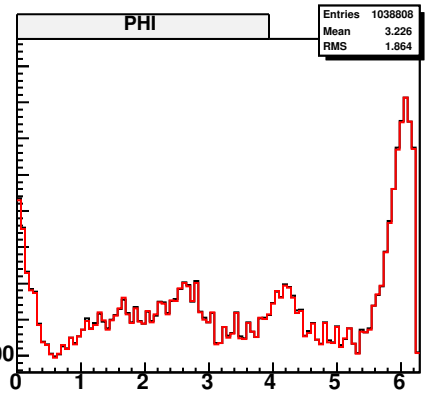
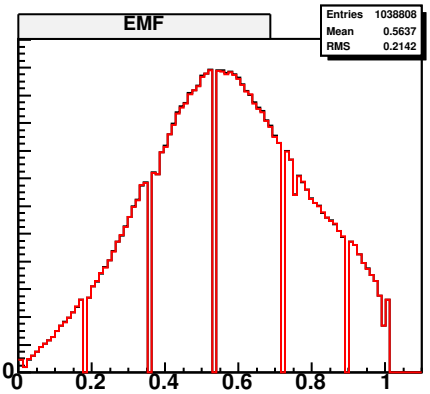
Met (No cuts)

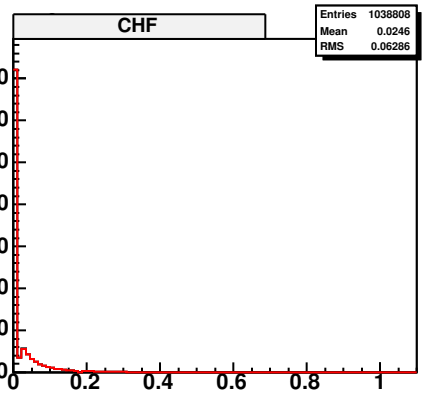


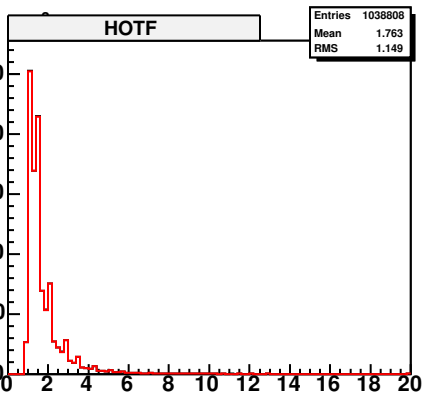


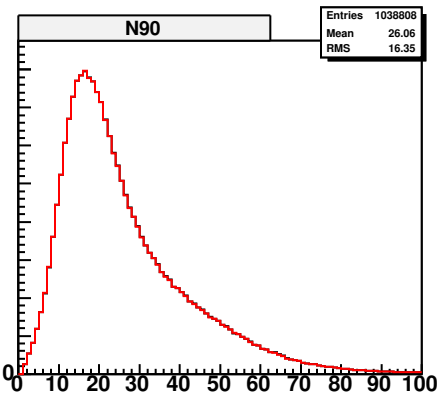


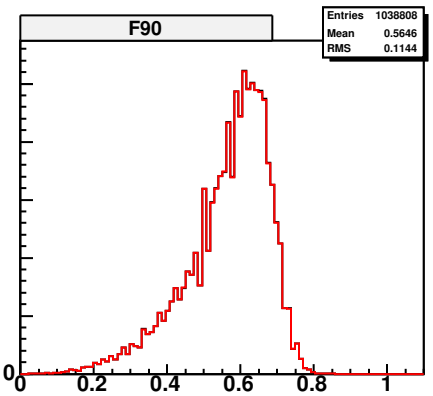


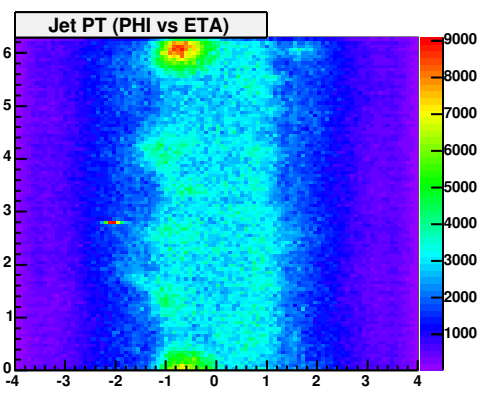




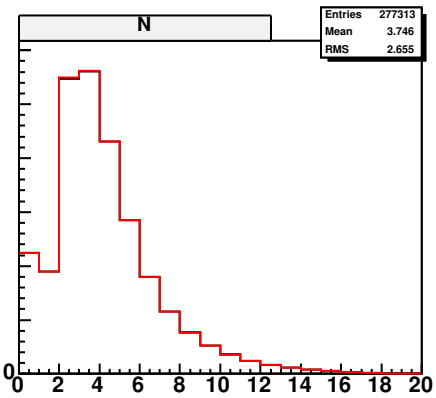


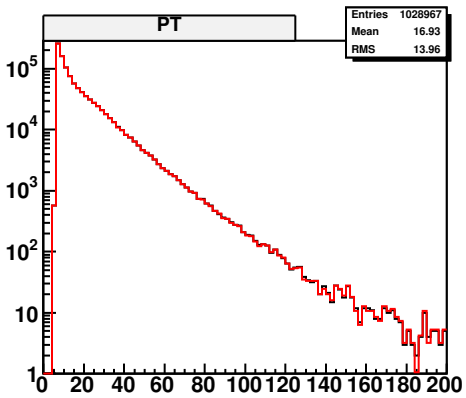


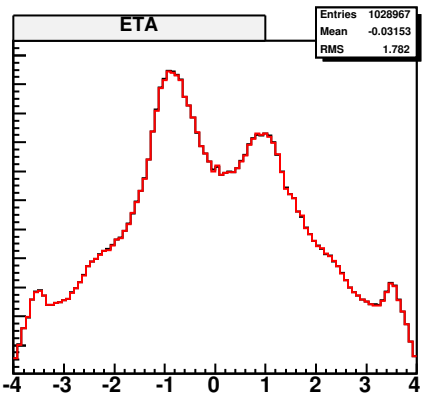


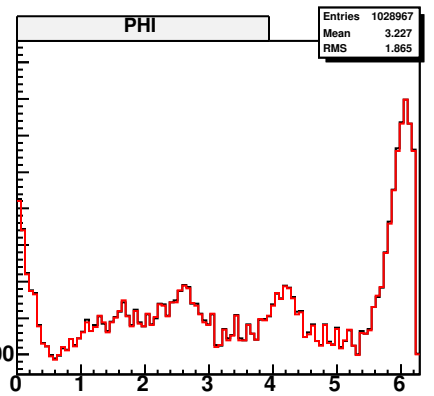


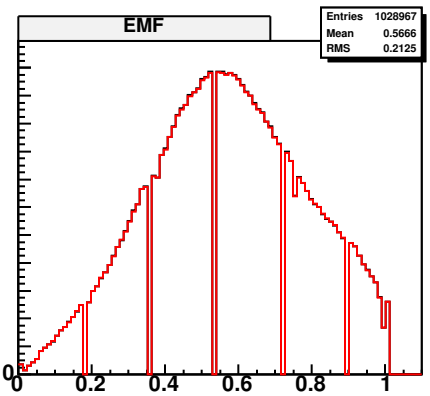
Jets (Cone R 0.7 (no cuts))

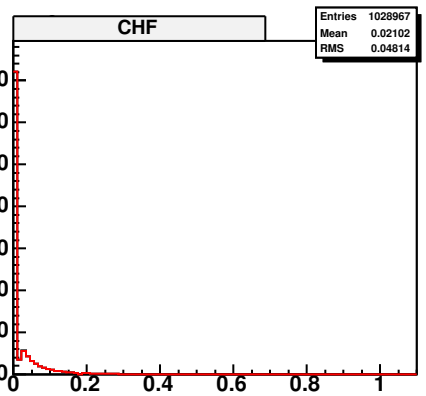


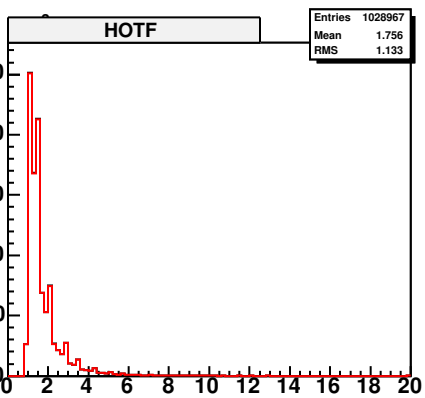


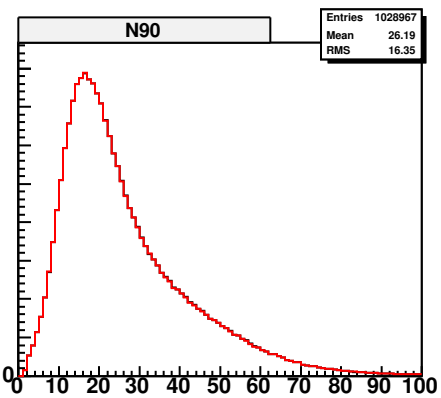


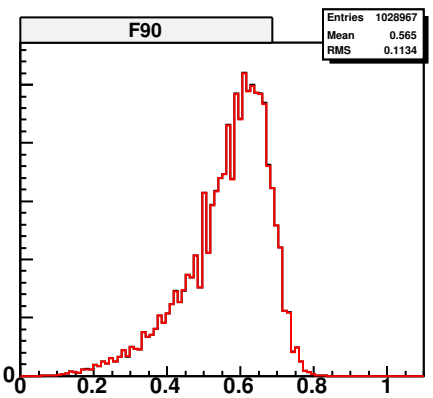


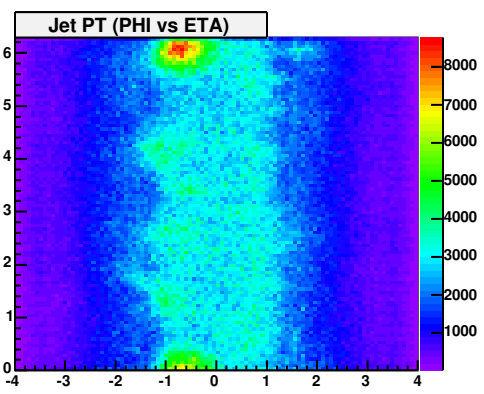




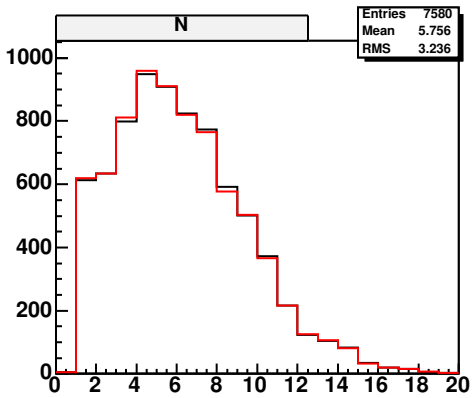


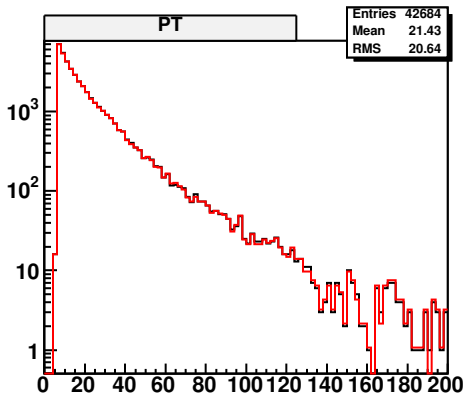


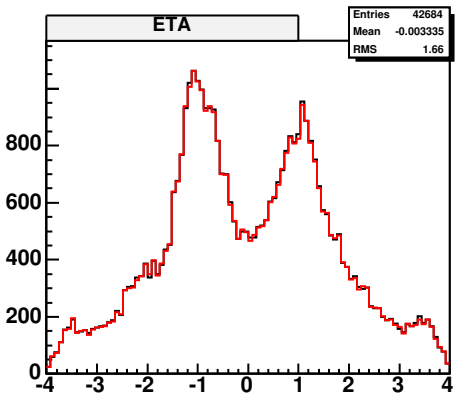


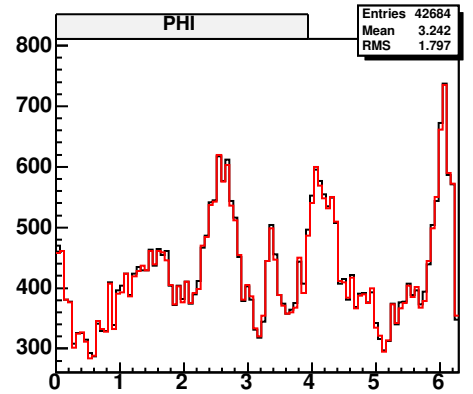


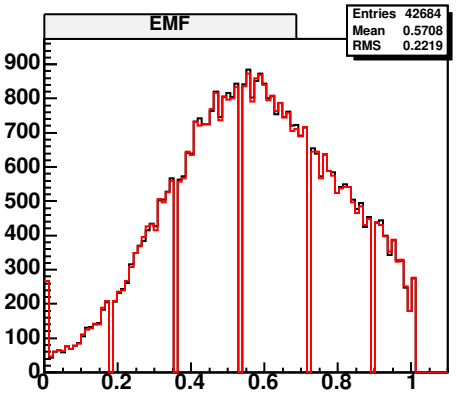
Jets (Cone R 0.7 (standard cuts))

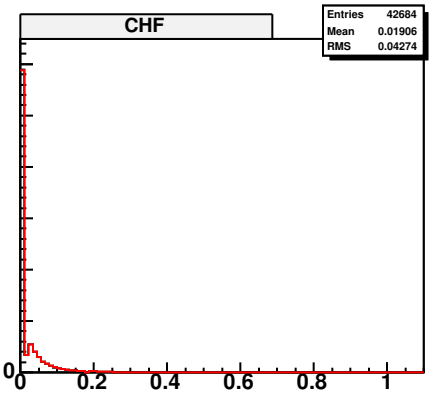


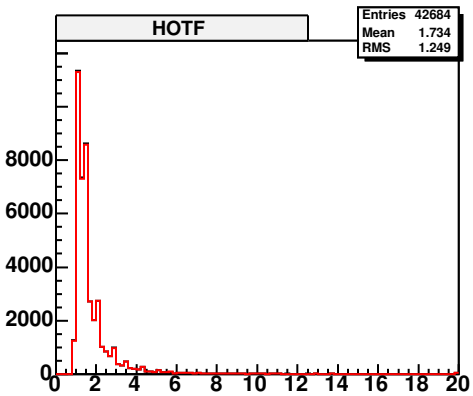


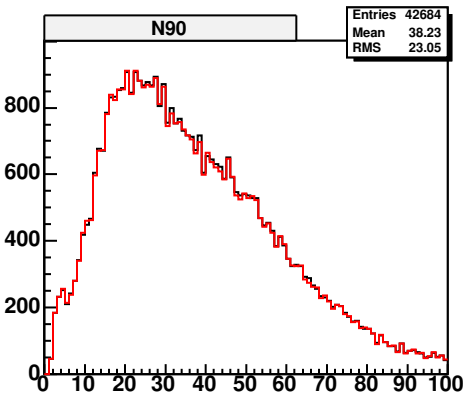


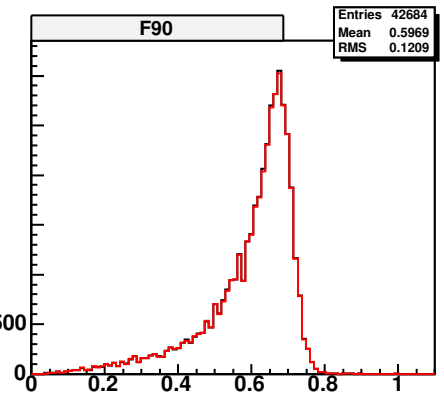


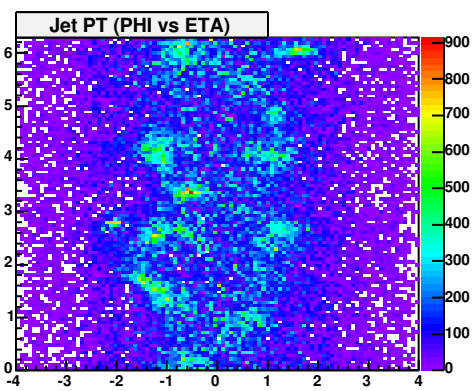




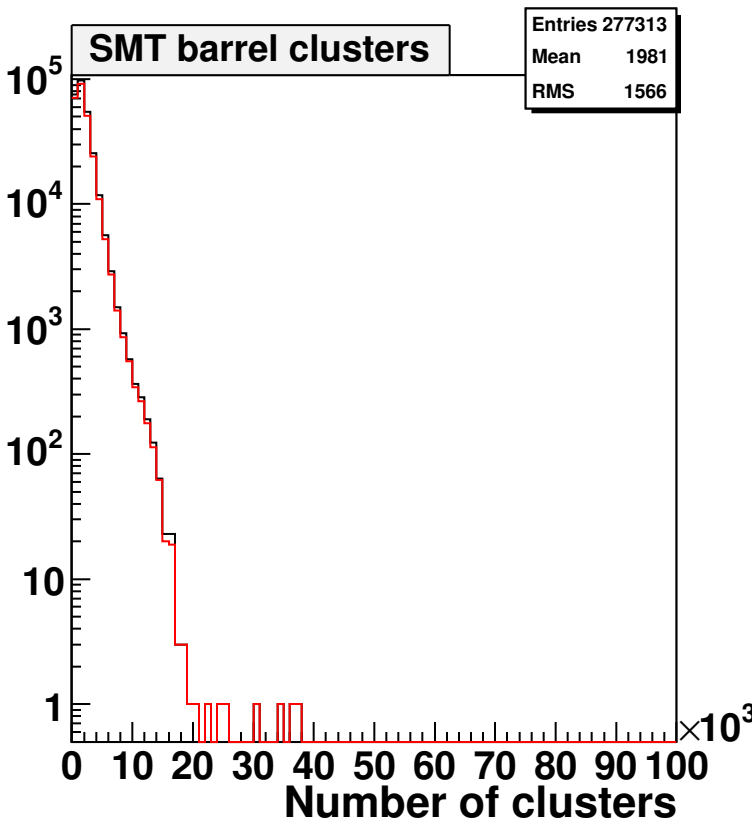


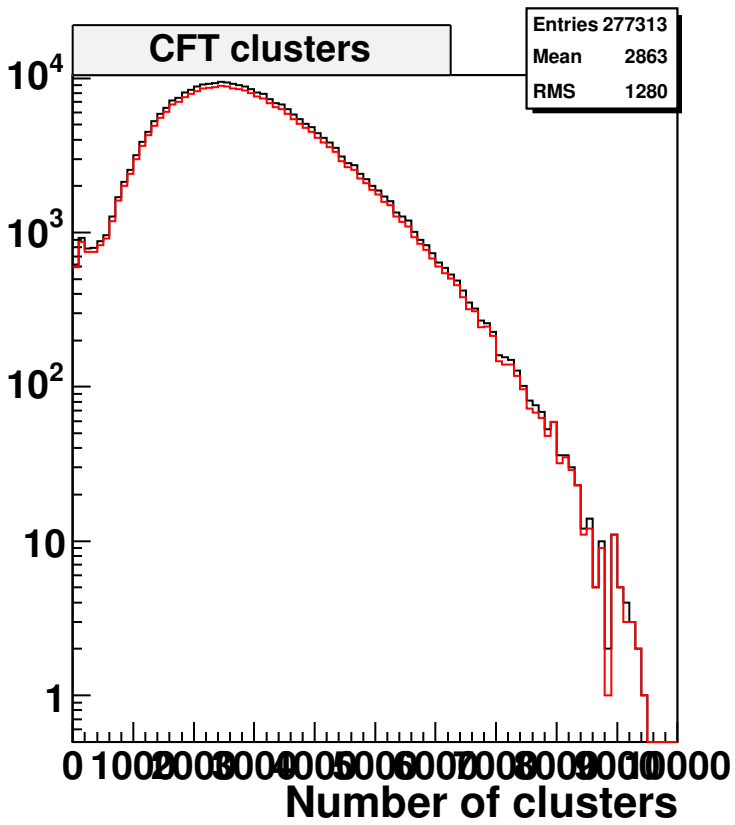


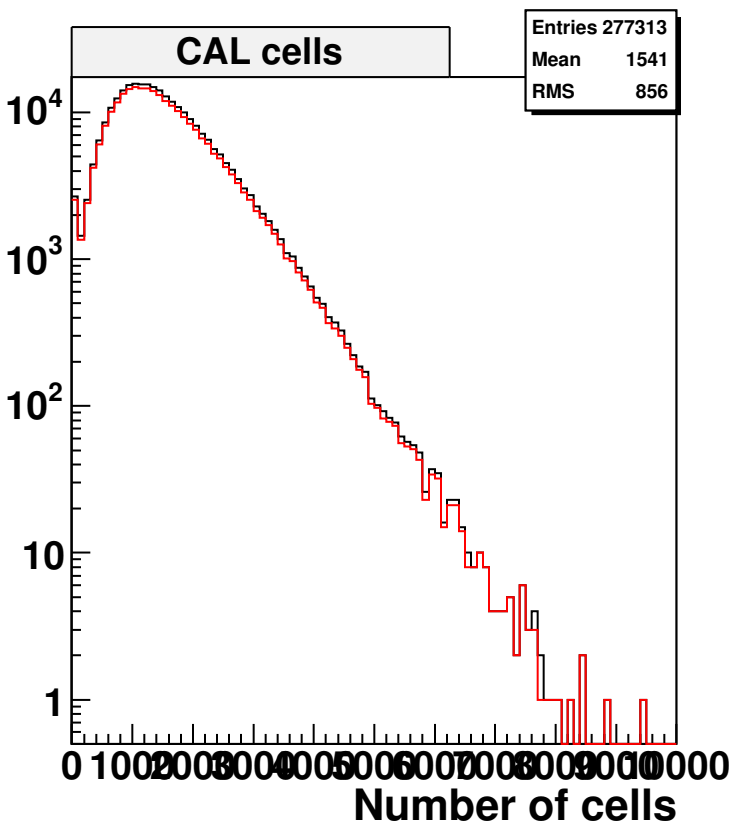


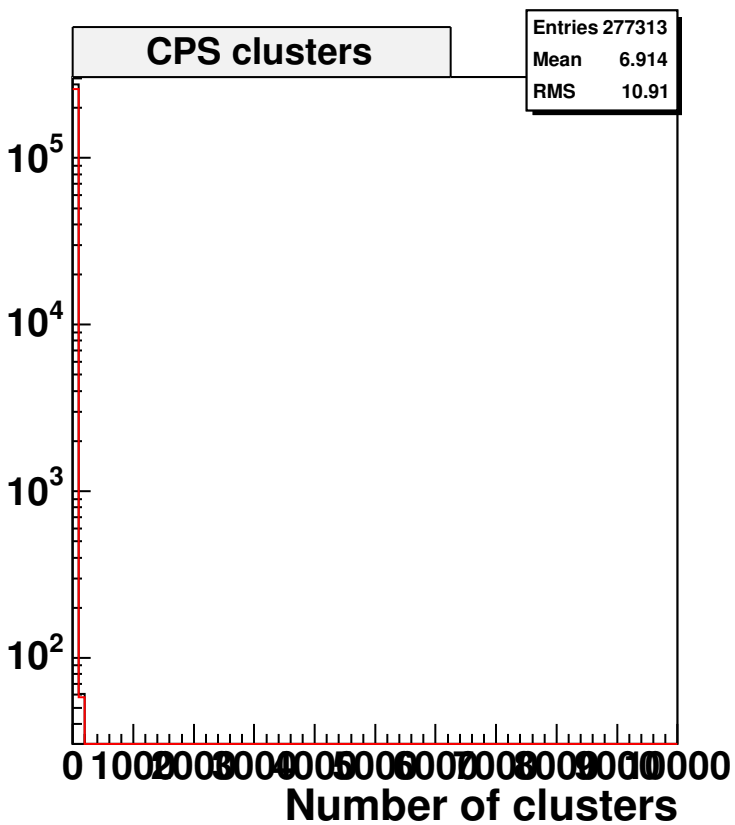


Jets (Cone R 0.7 (standard cuts, MET>30))

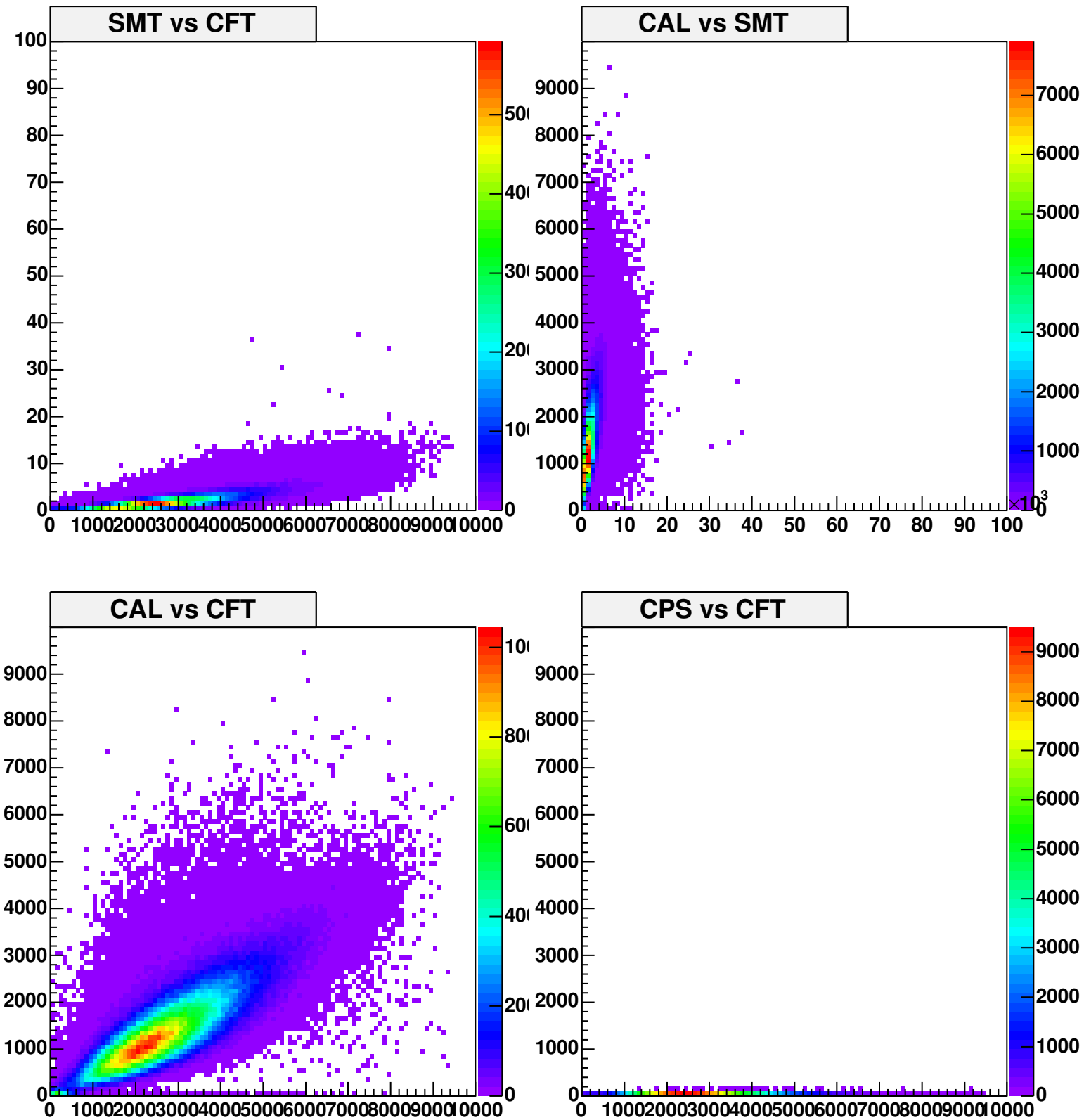




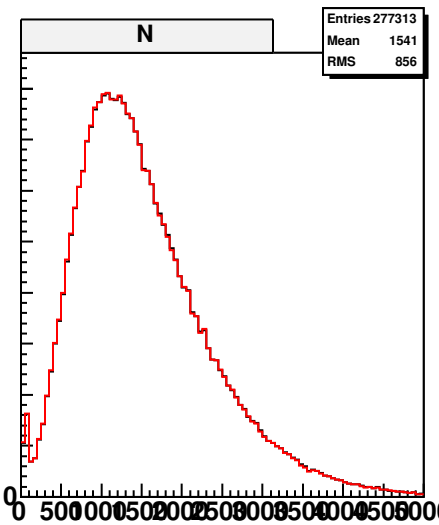


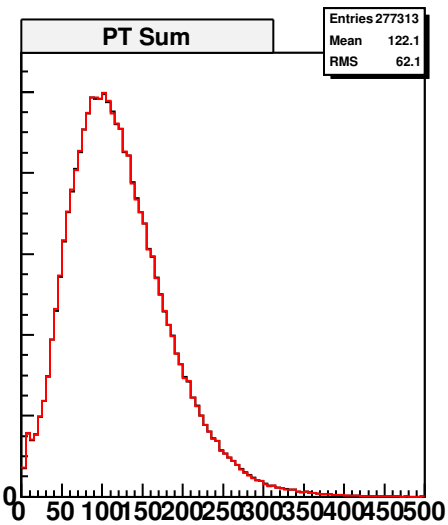


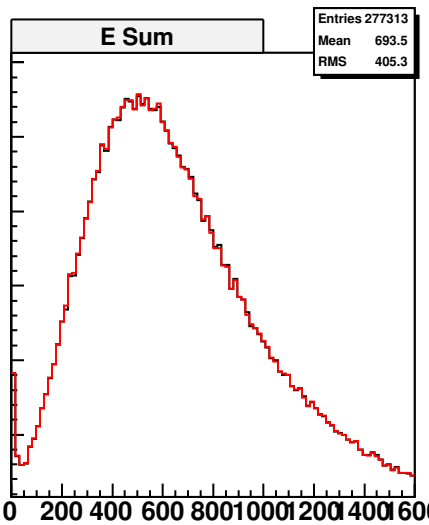
Detector Occupancy (Detector)

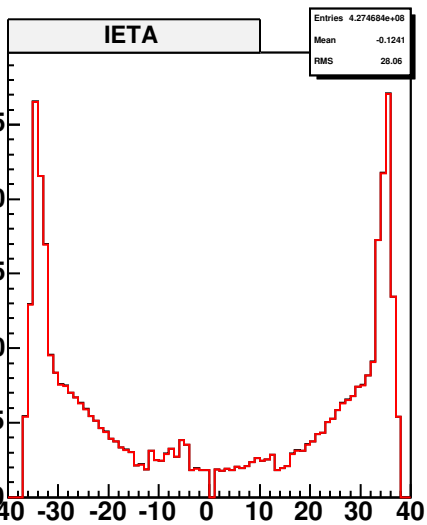


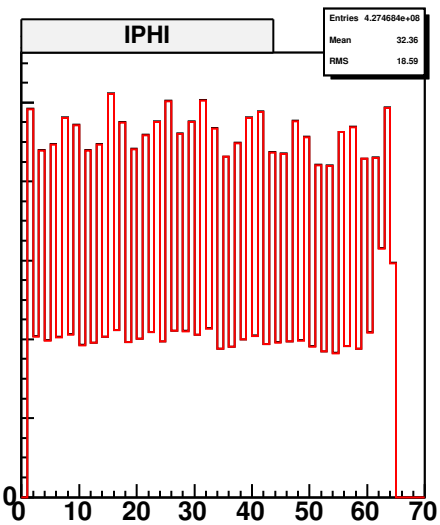
Detector Occupancy (Detector)

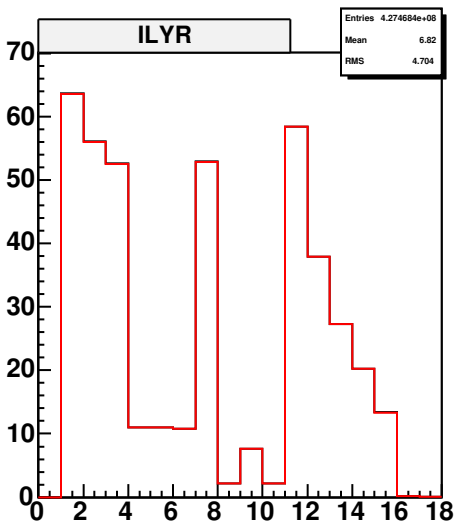


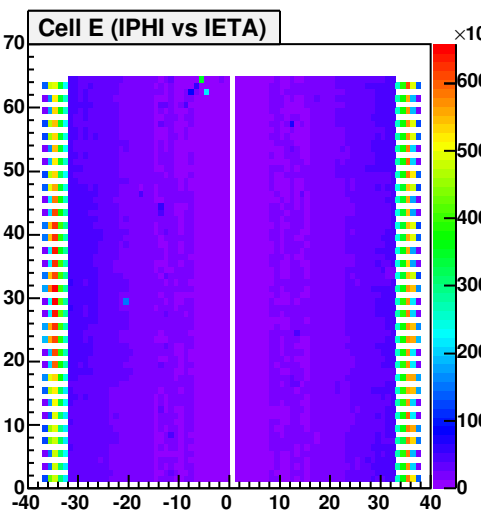


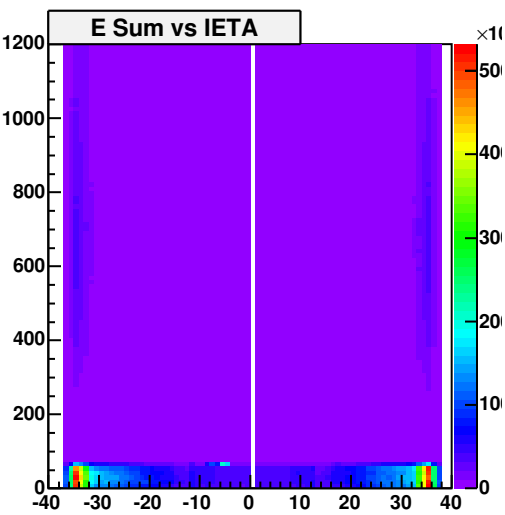


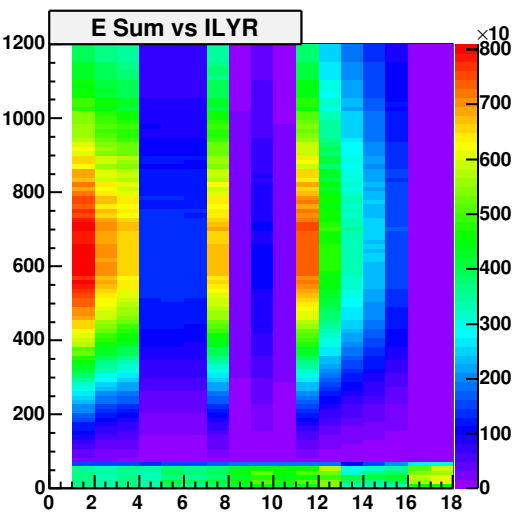




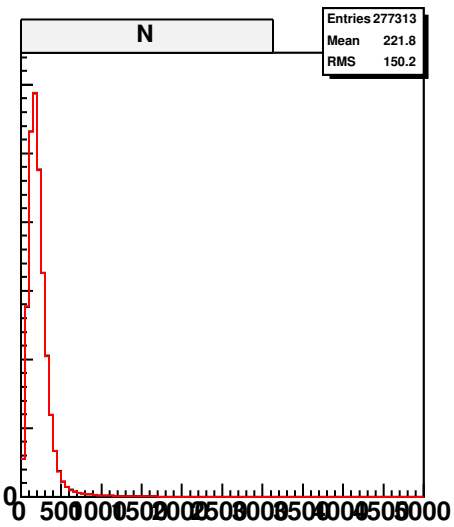


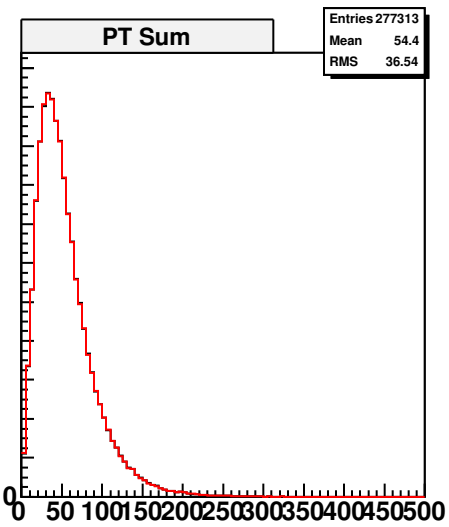


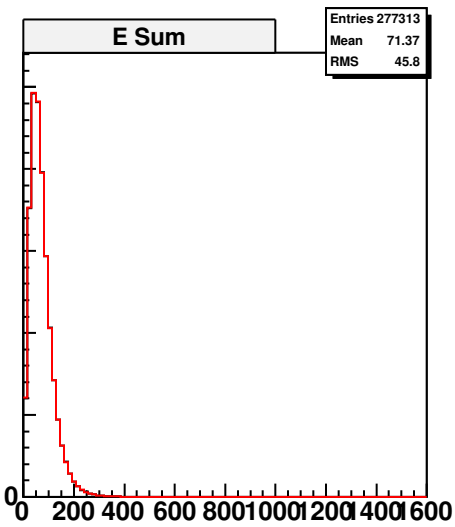


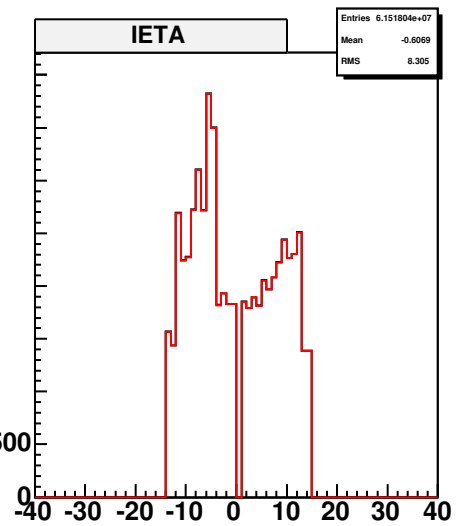


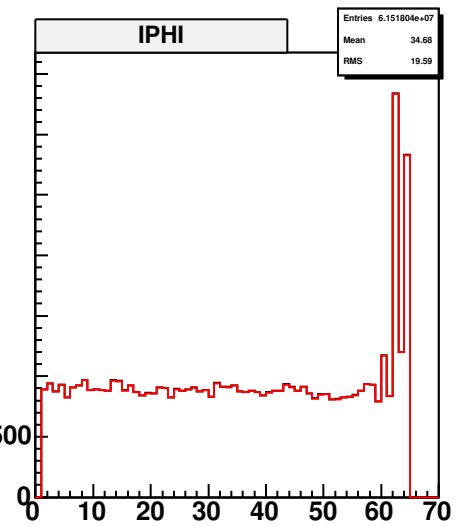
Calorimeter (All cells)

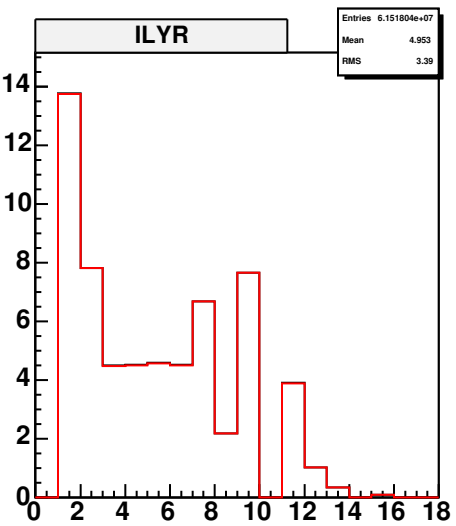


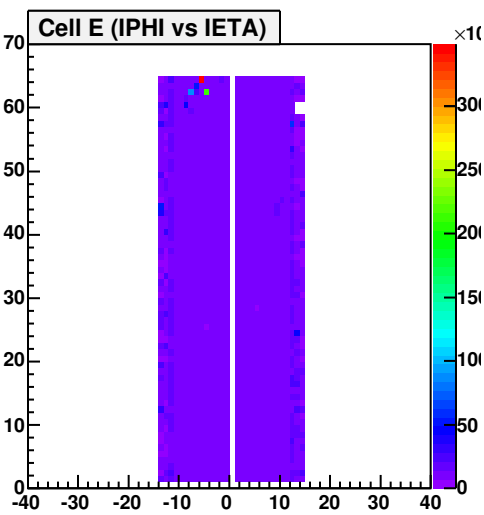


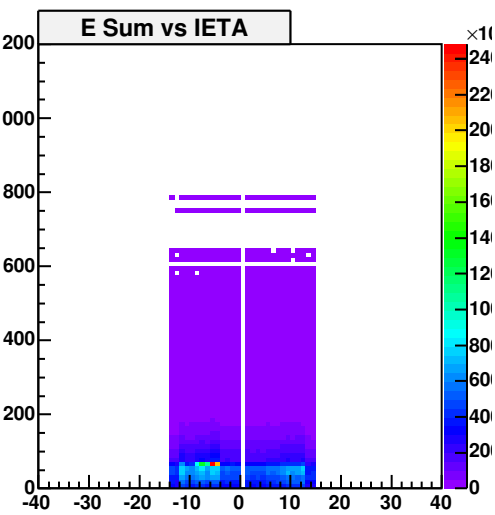


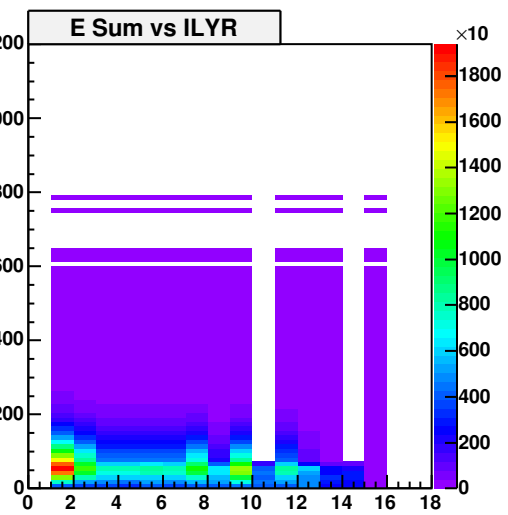




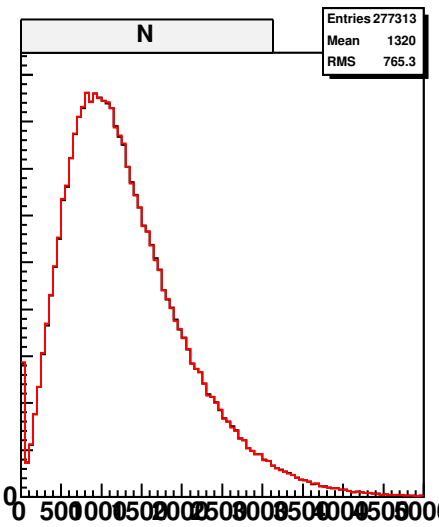


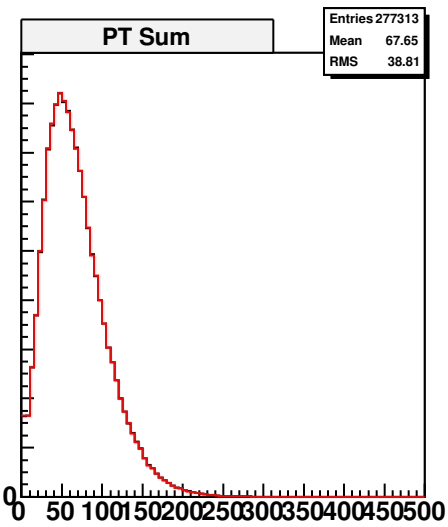


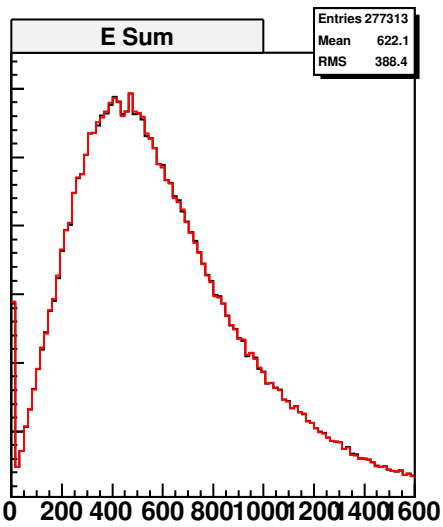


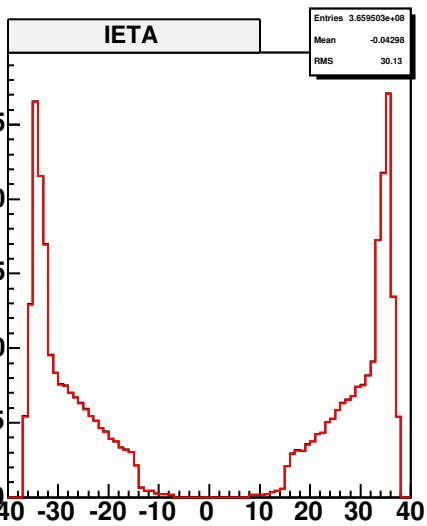


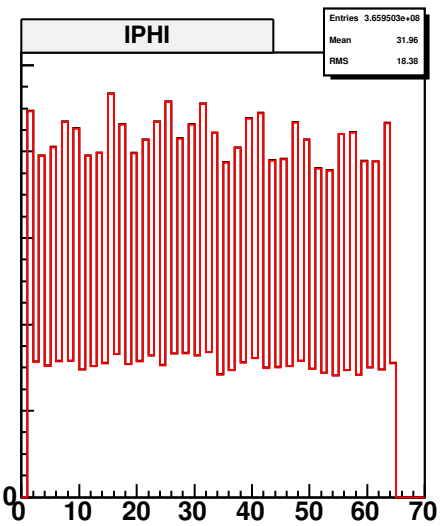
Calorimeter (All CC cells)

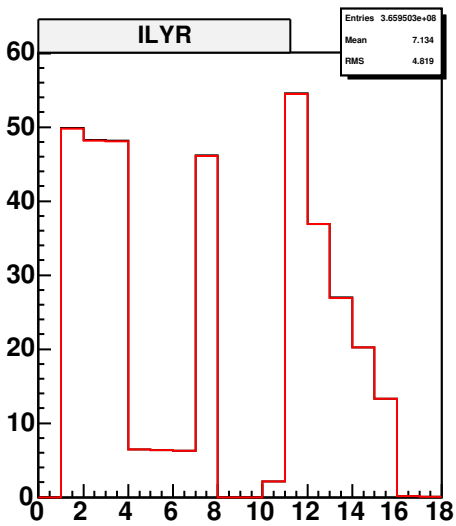


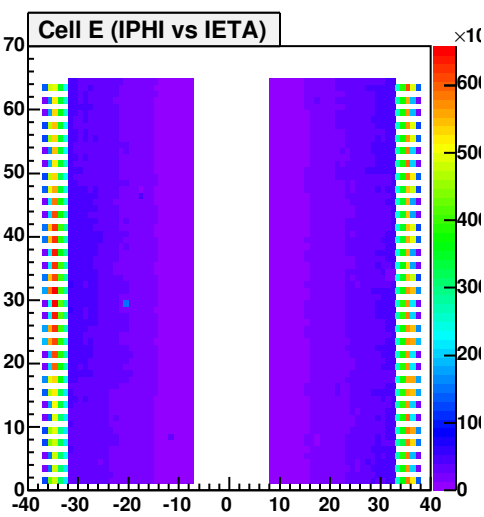


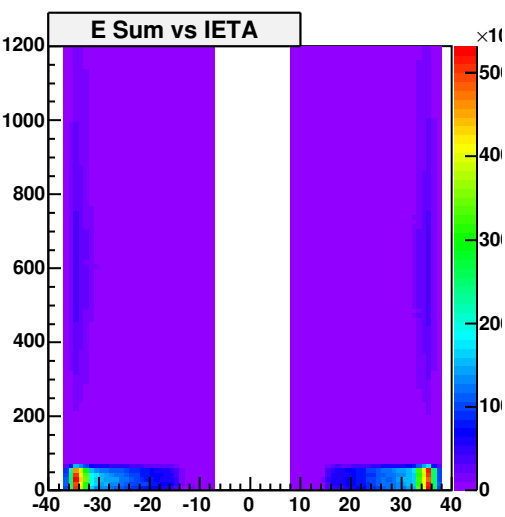


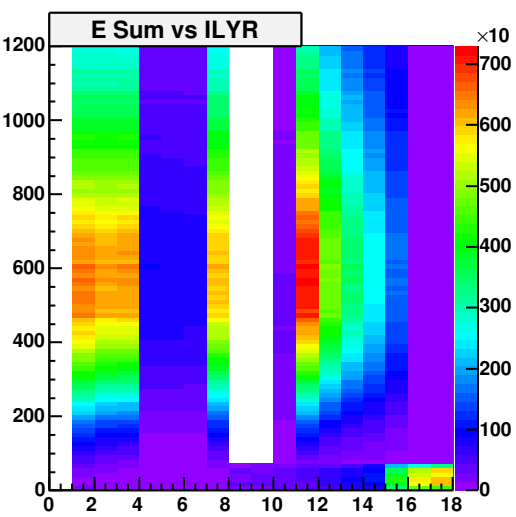




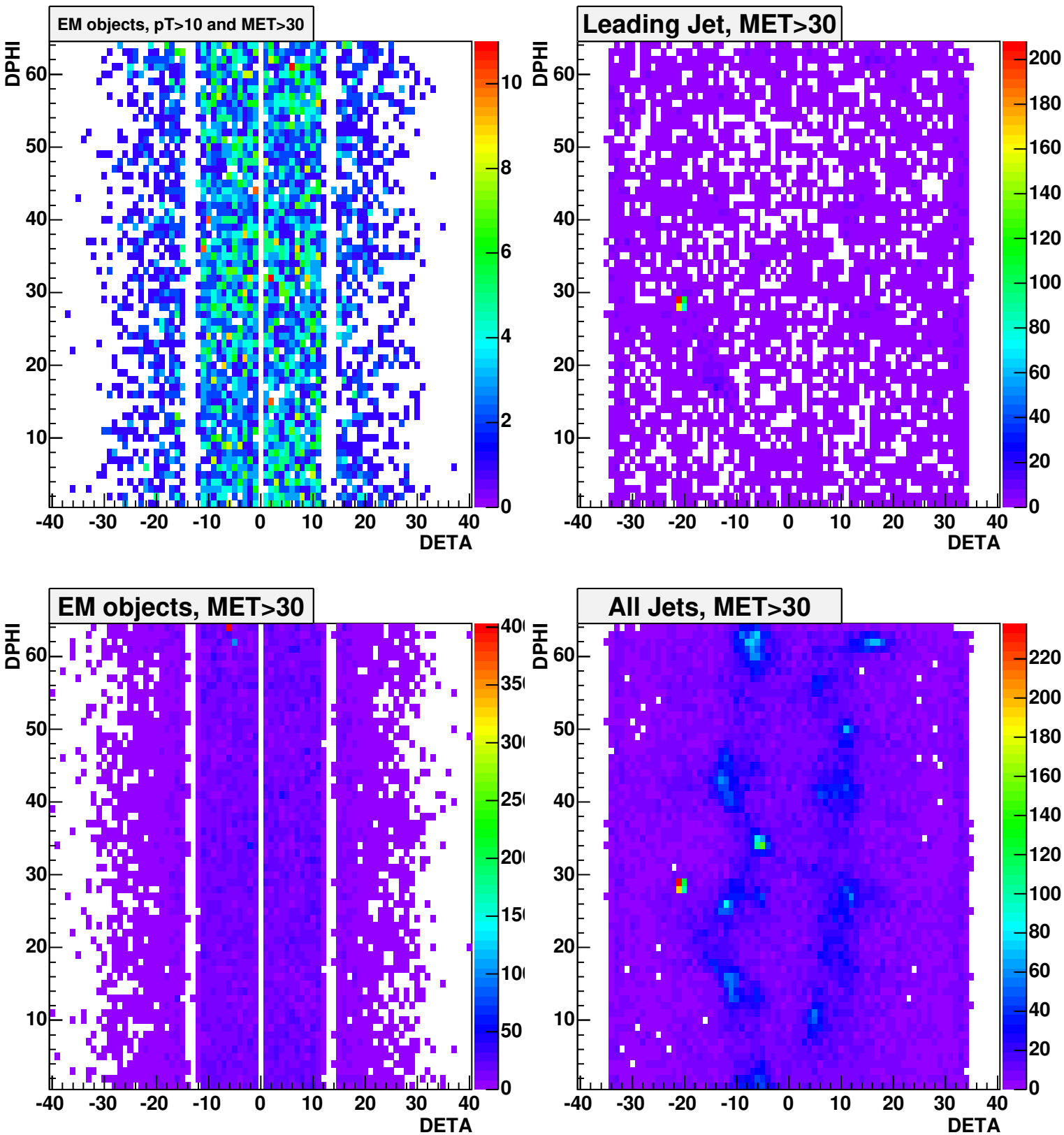




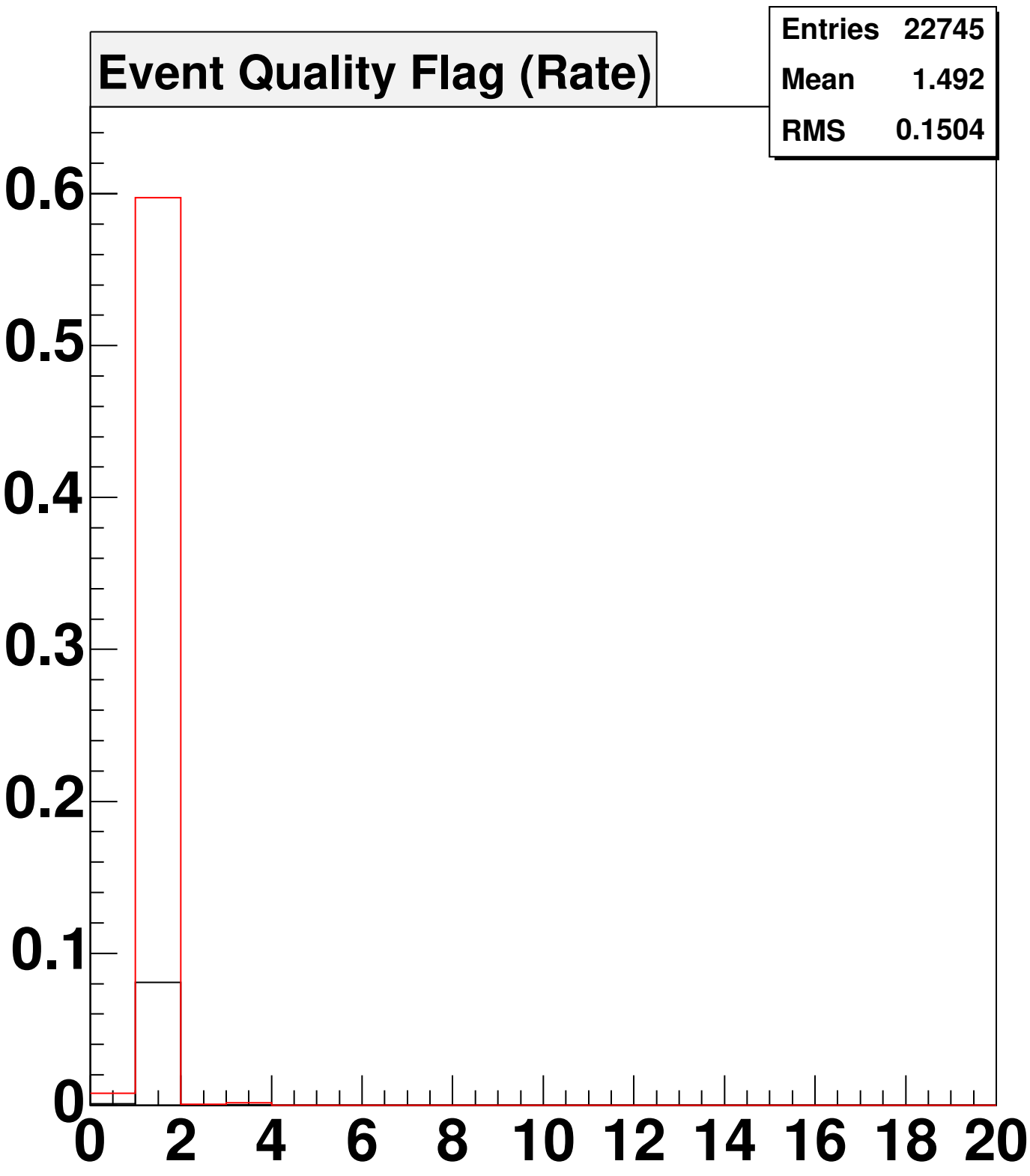


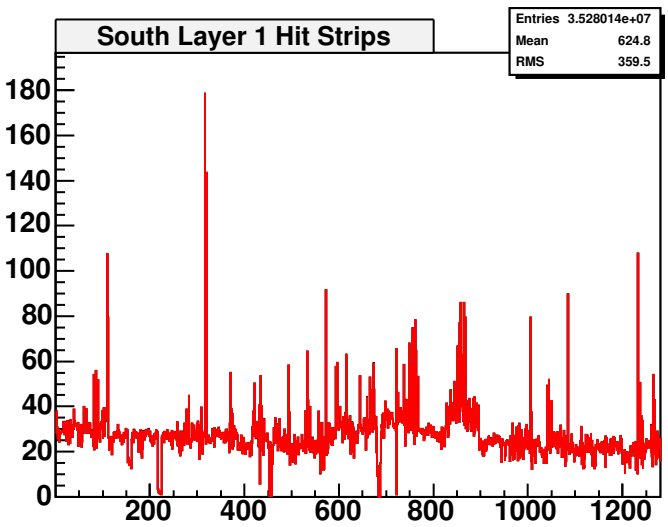


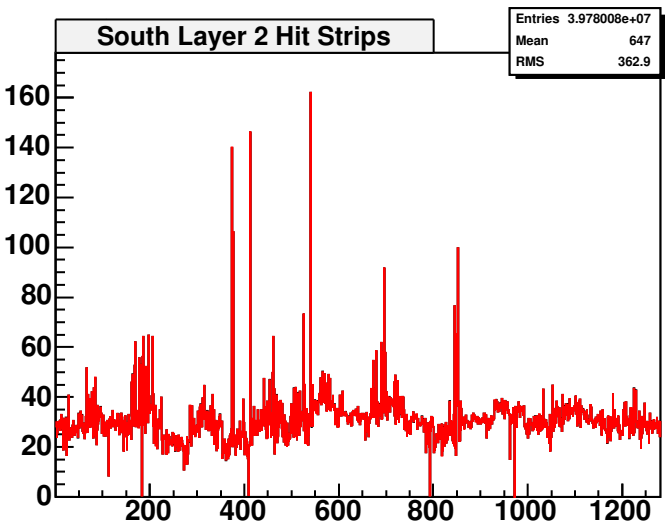
Calorimeter (All EC cells)

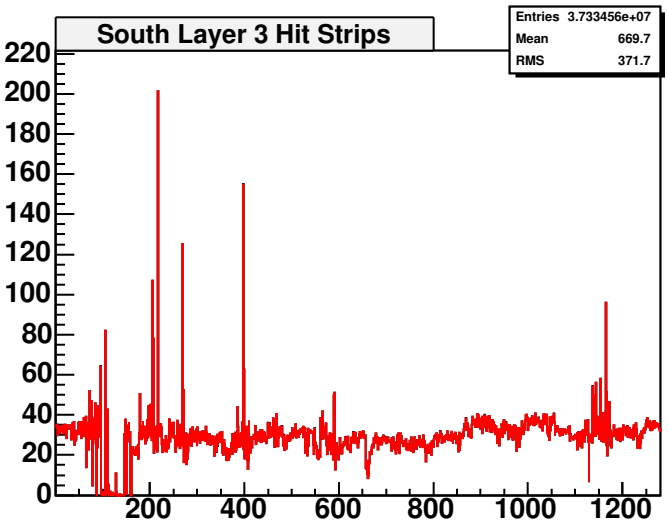


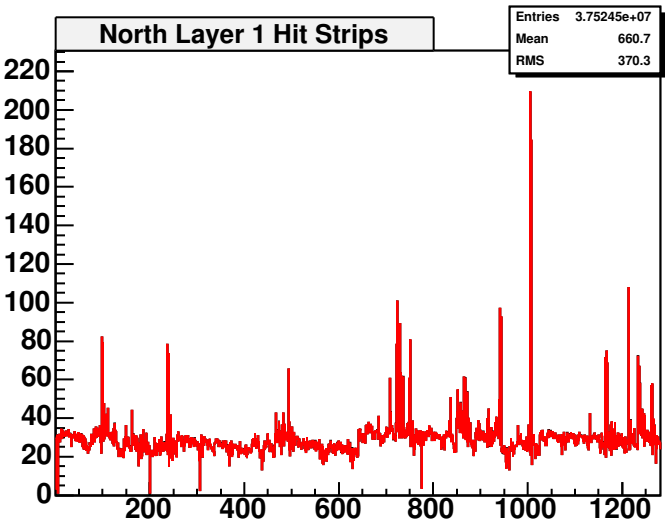
Cal Objects with MET>30 (All cells)

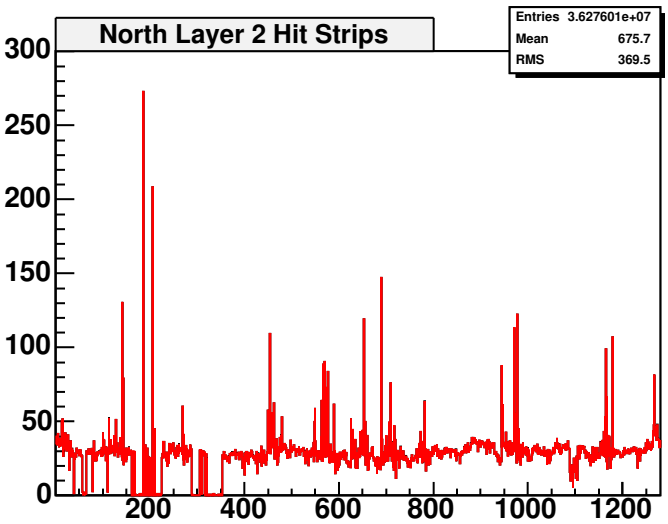

Event Quality Flag (Rate)
Entries 22745
Mean 1.492
RMS 0.1504
0.6
0.5
0.4
0.3
0.2
0.1
0
0 2 4 6 8 10 12 14 16 18 20
Calorimeter Event Quality (All cells)

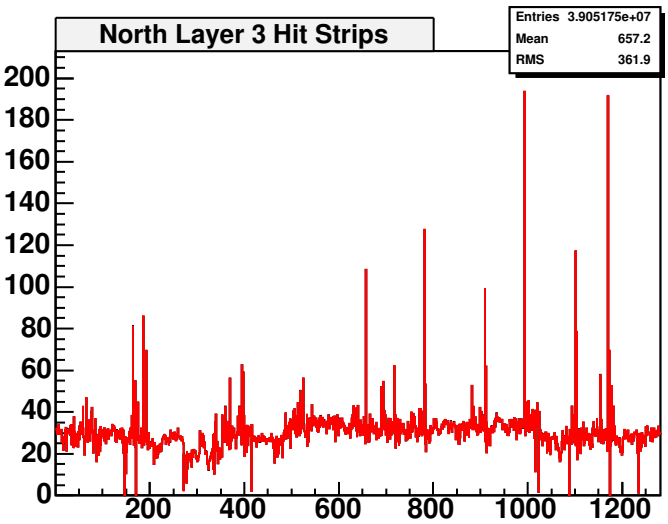




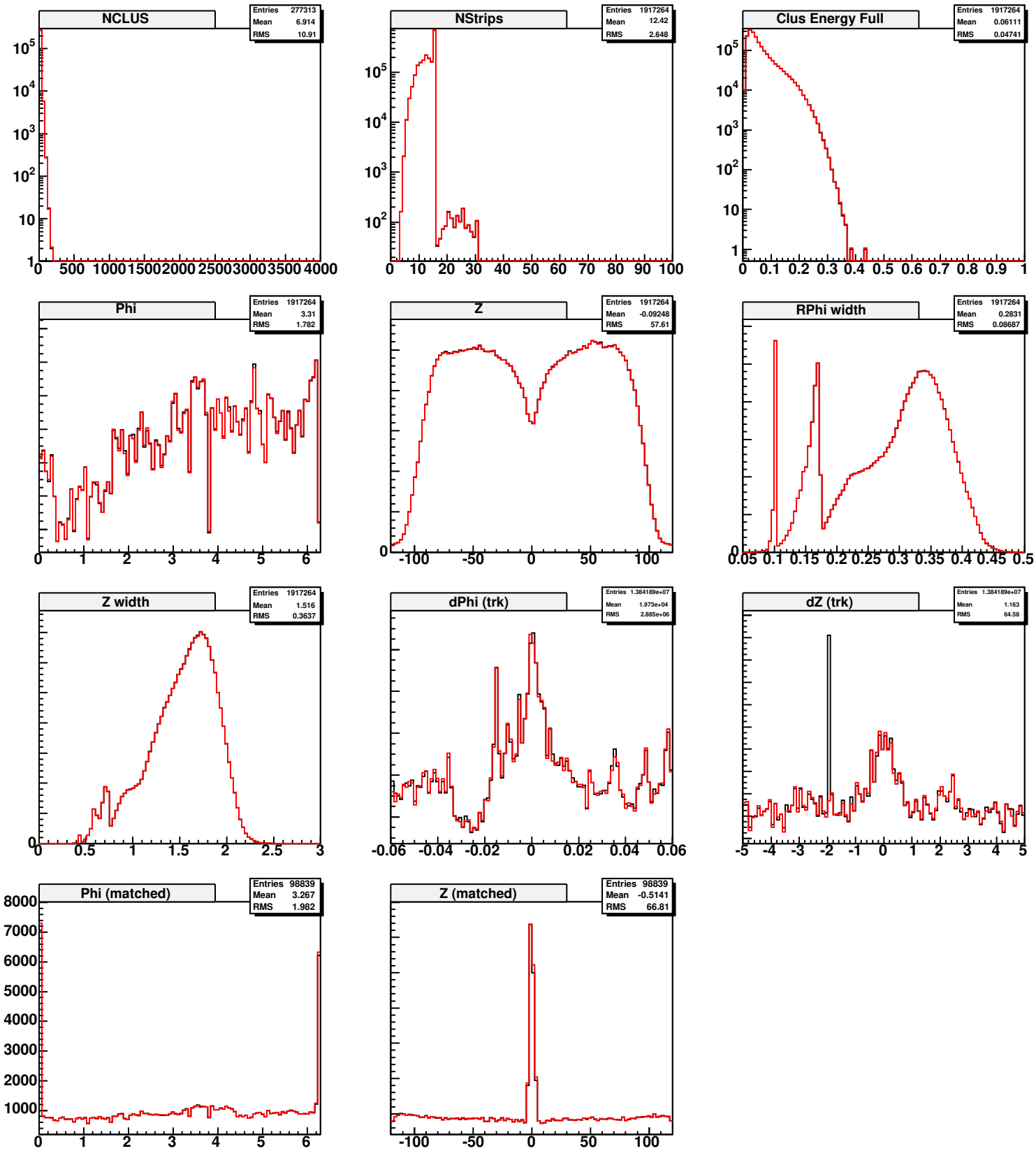




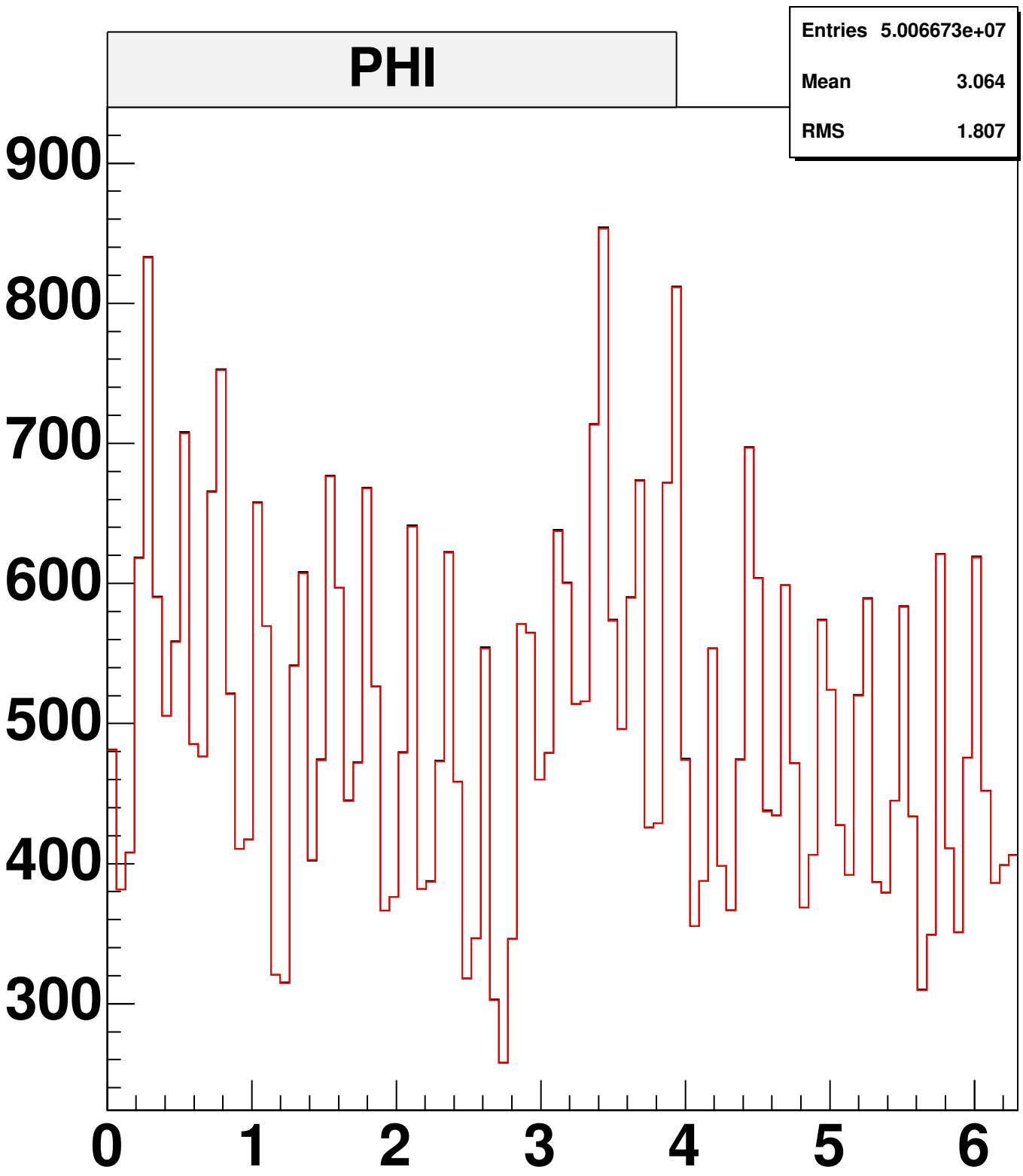


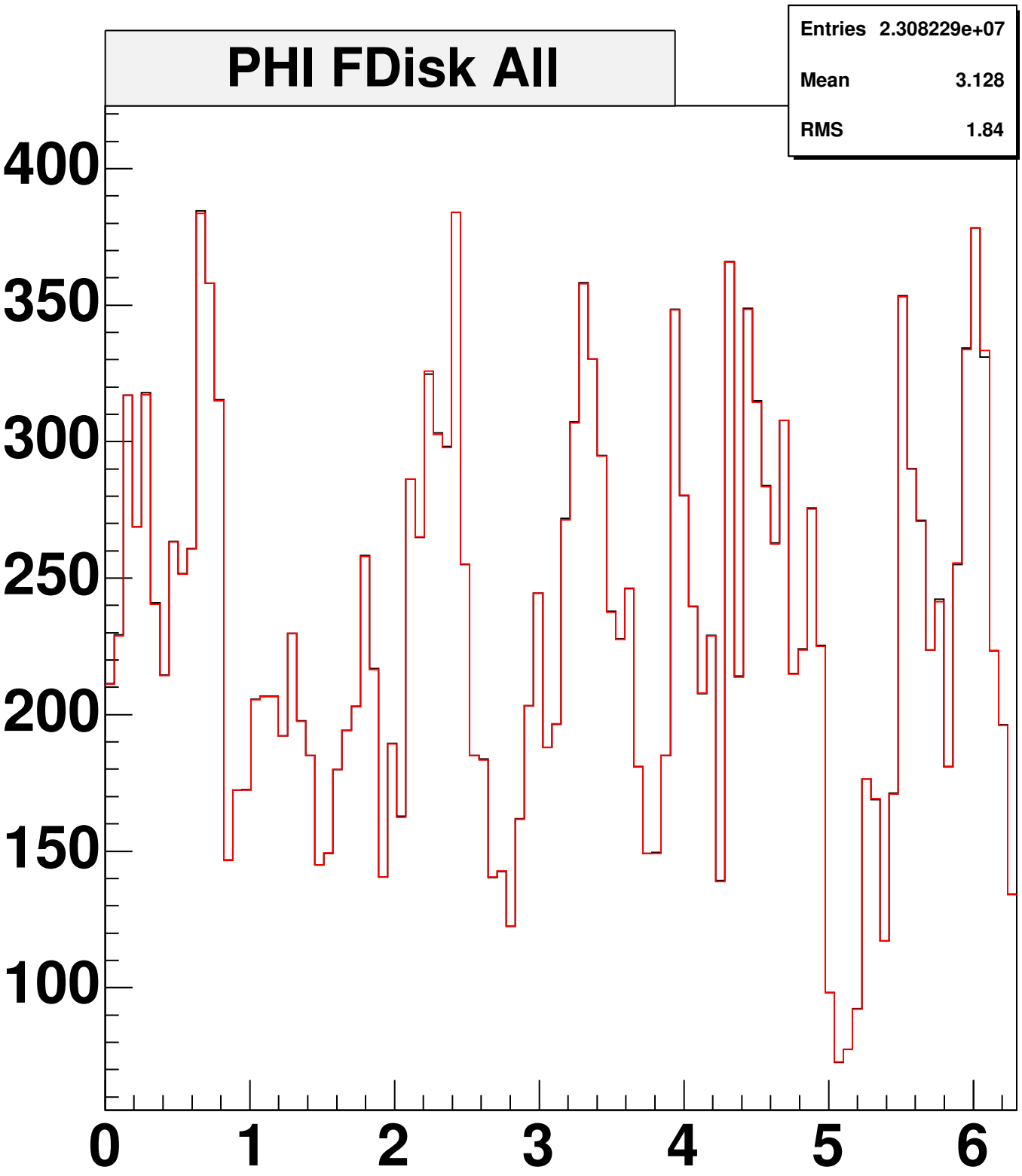


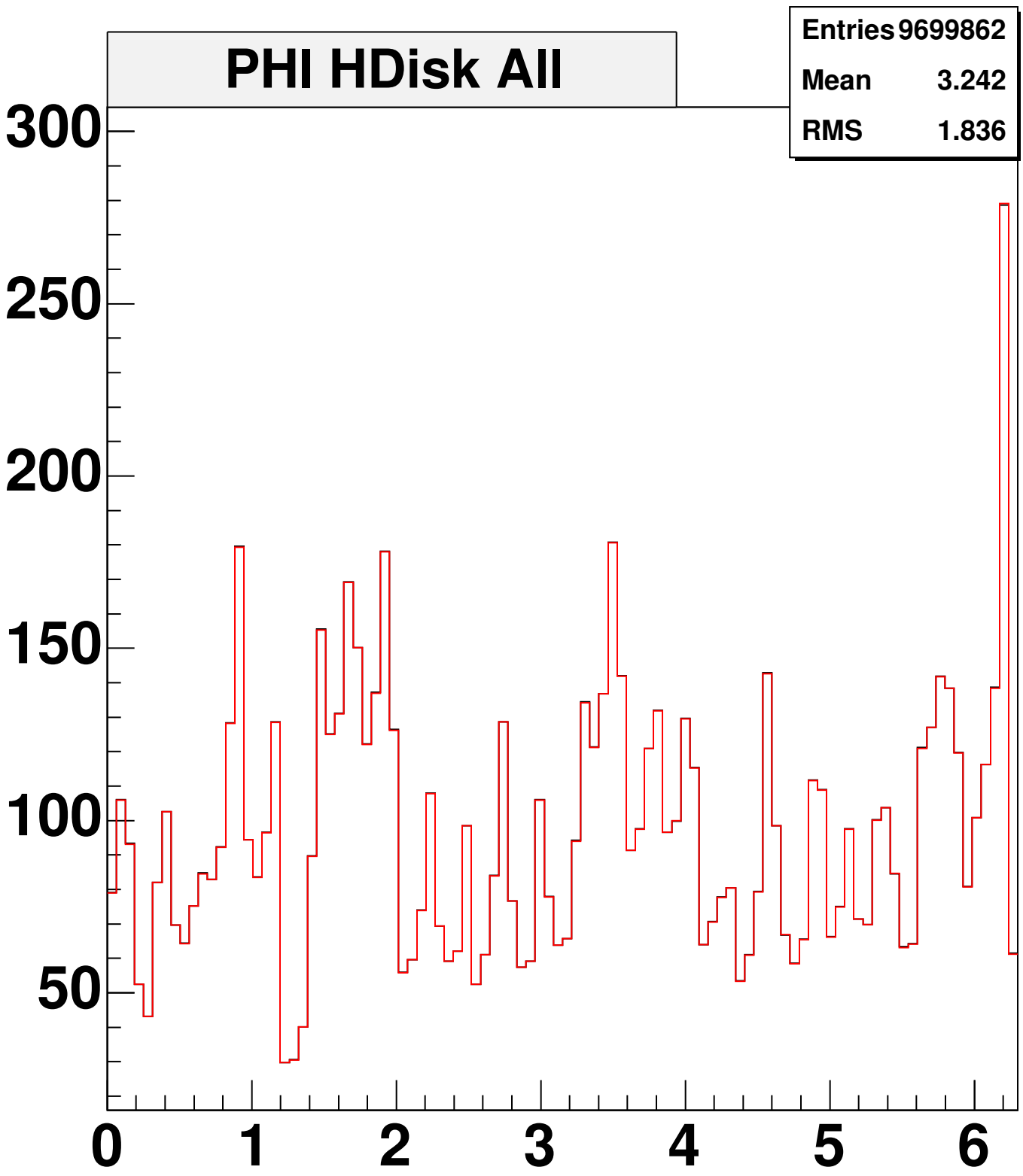
CPS Hit Strips (All Clusters)

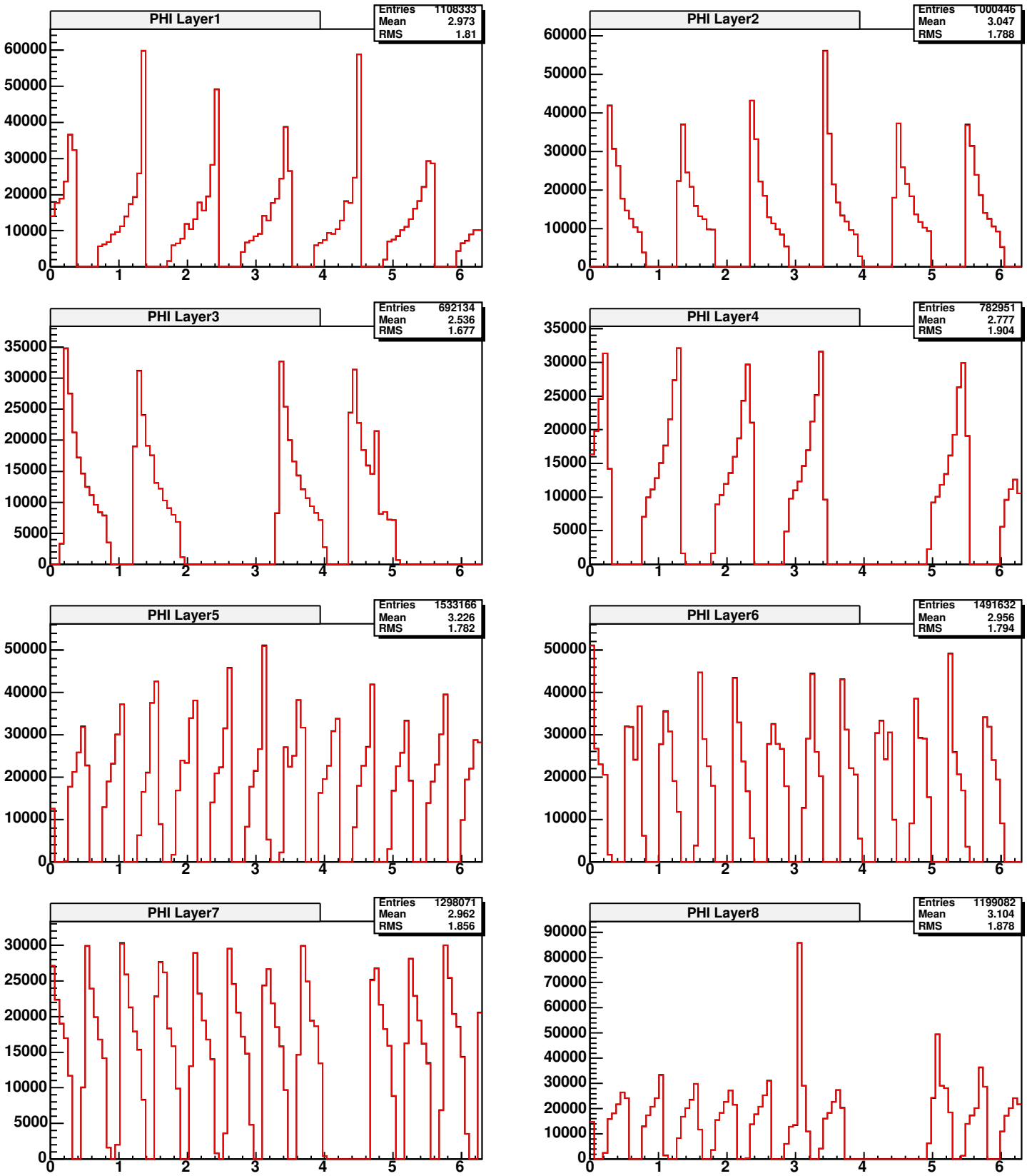


CPS Clusters (All Clusters)

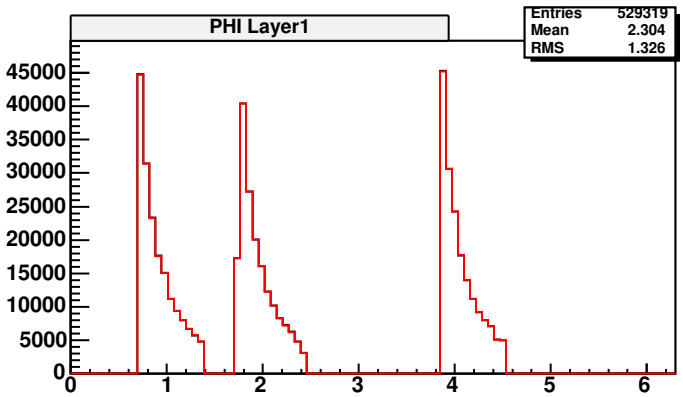

PHI
Entries 5.006673e+07
Mean 3.064
RMS 1.807
900
800
700
600
500
400
300
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

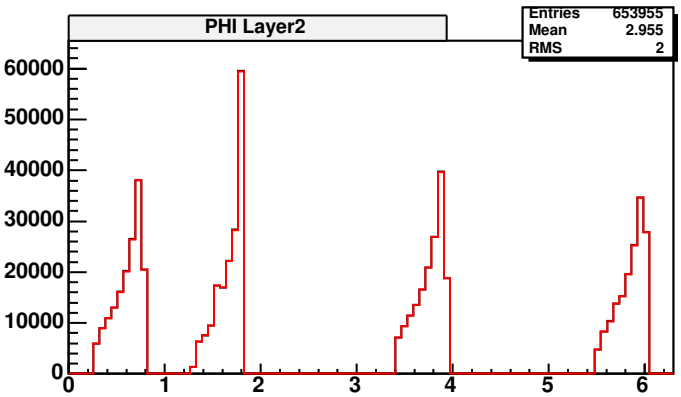

PHI FDisk All
Entries 2.308229e+07
Mean 3.128
RMS 1.84
400
350
300
250
200
150
100
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

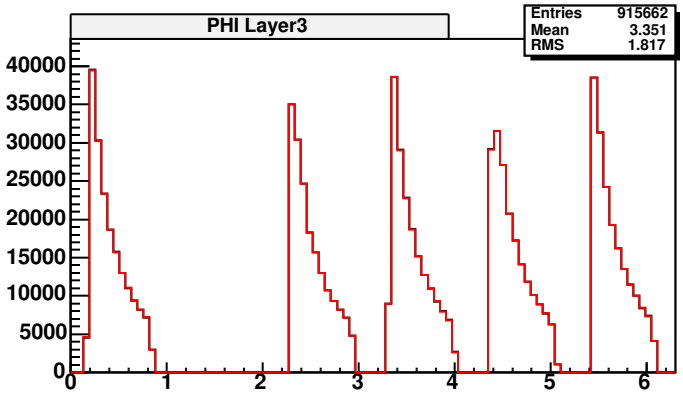

PHI HDisk All
Entries 9699862
Mean 3.242
RMS 1.836
300
250
200
150
100
50
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

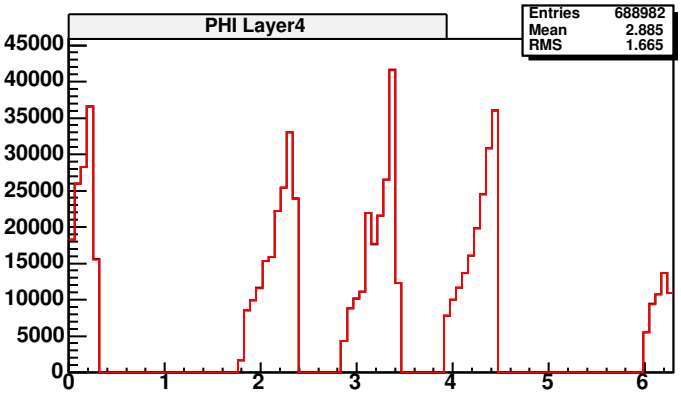


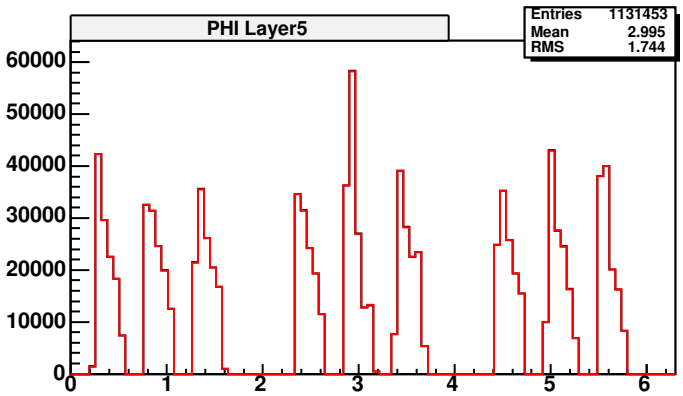
SmtClusters (ClustrBar1)

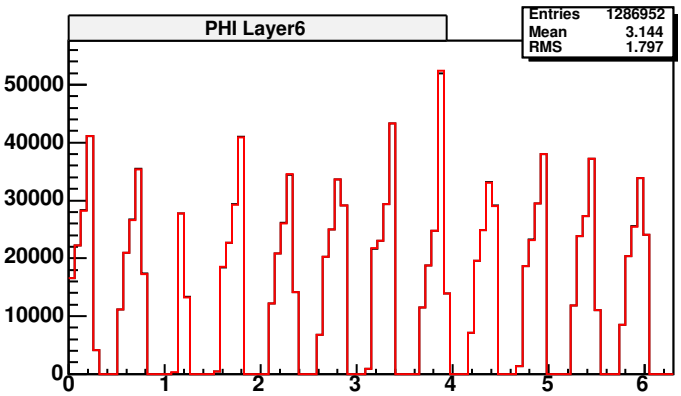


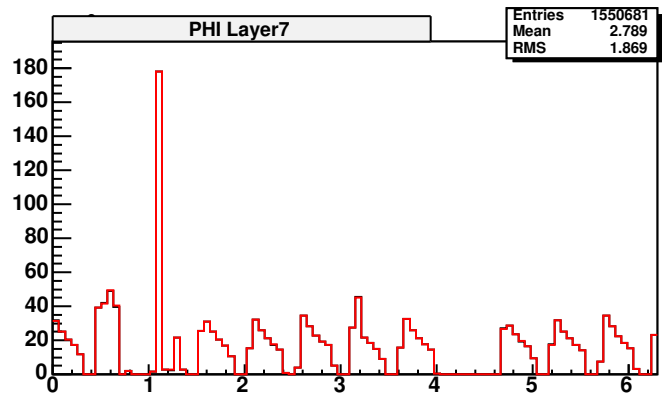


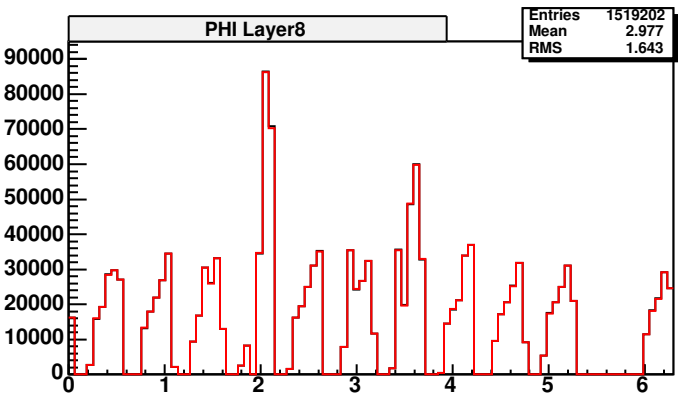




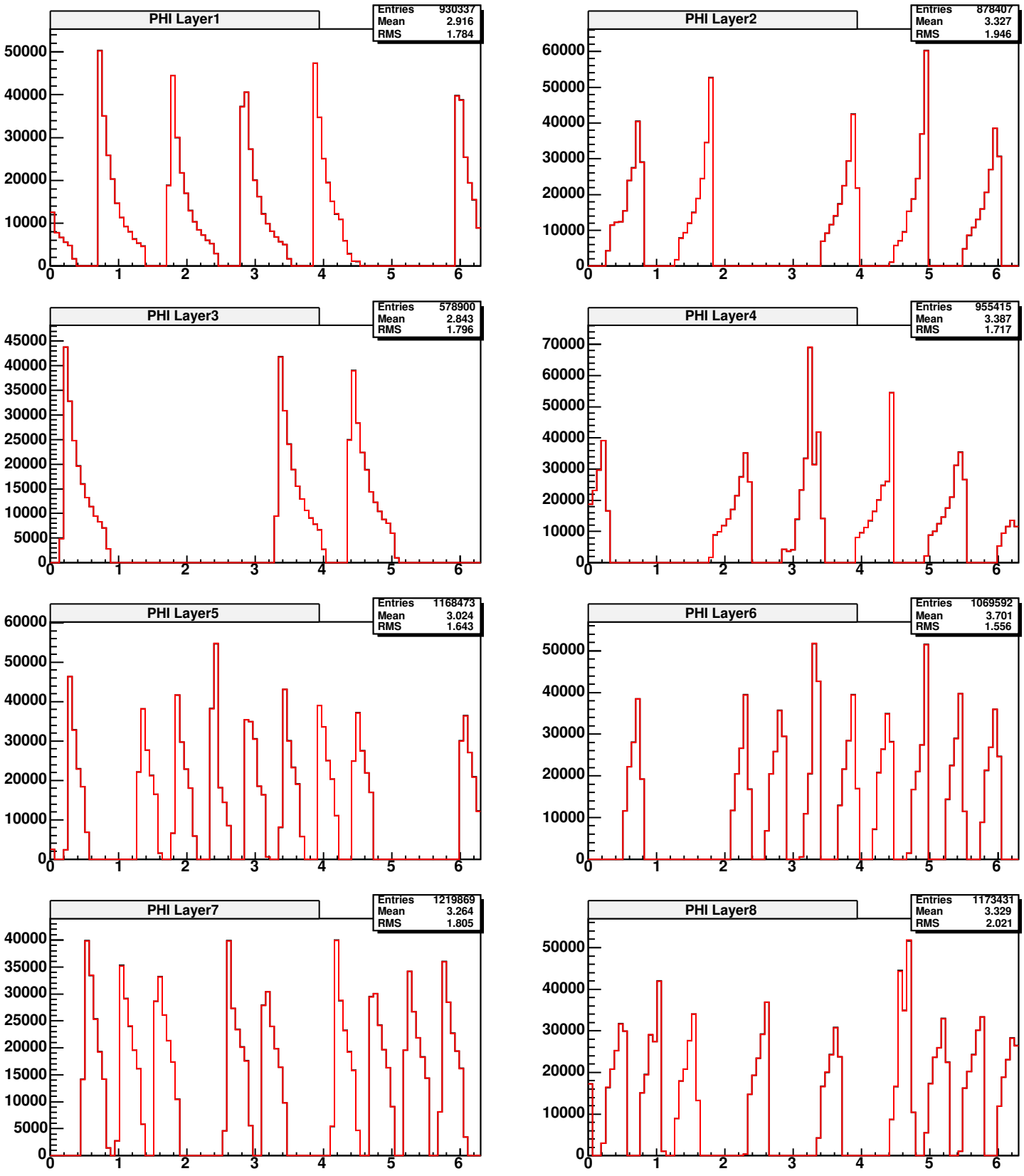




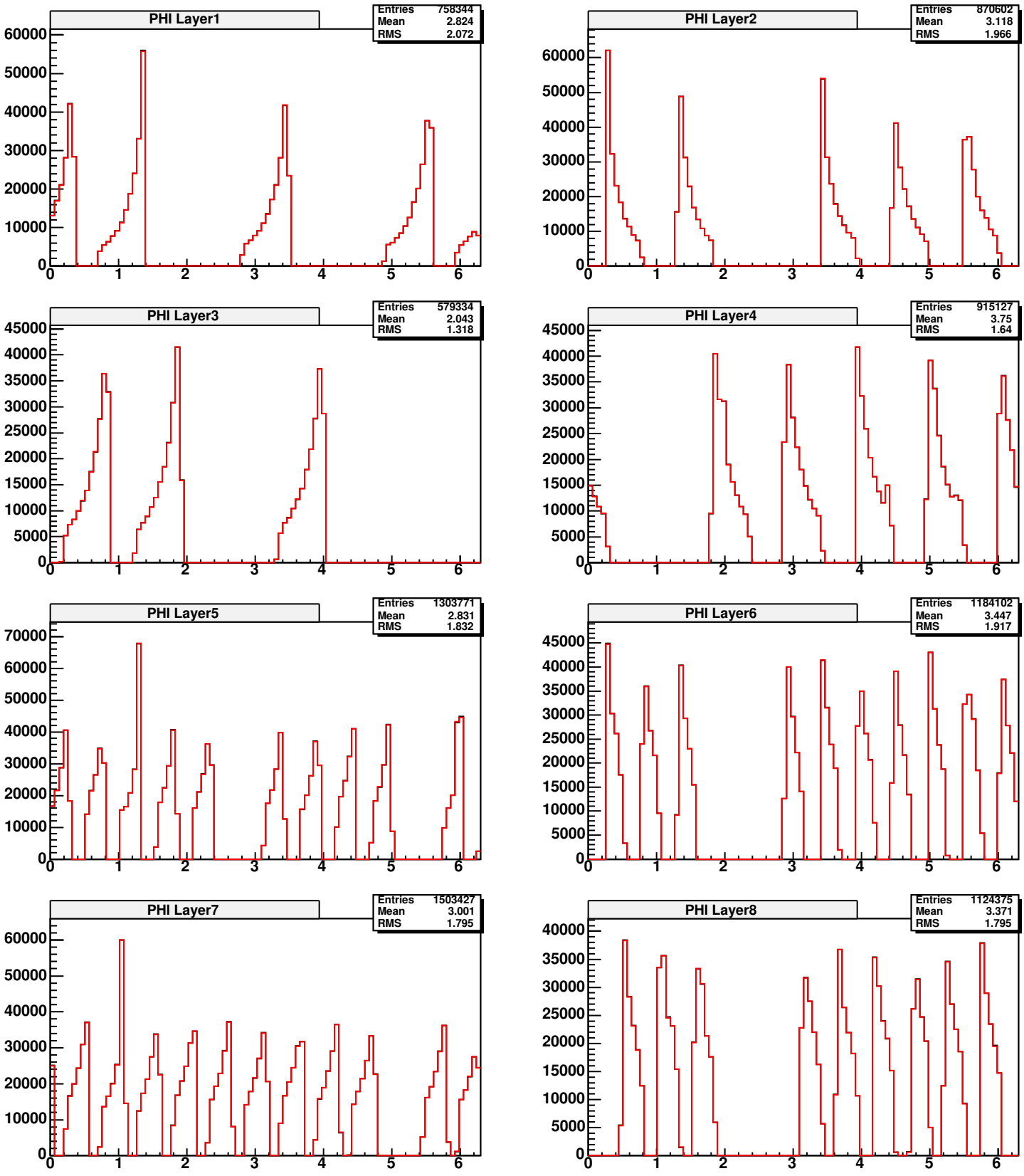




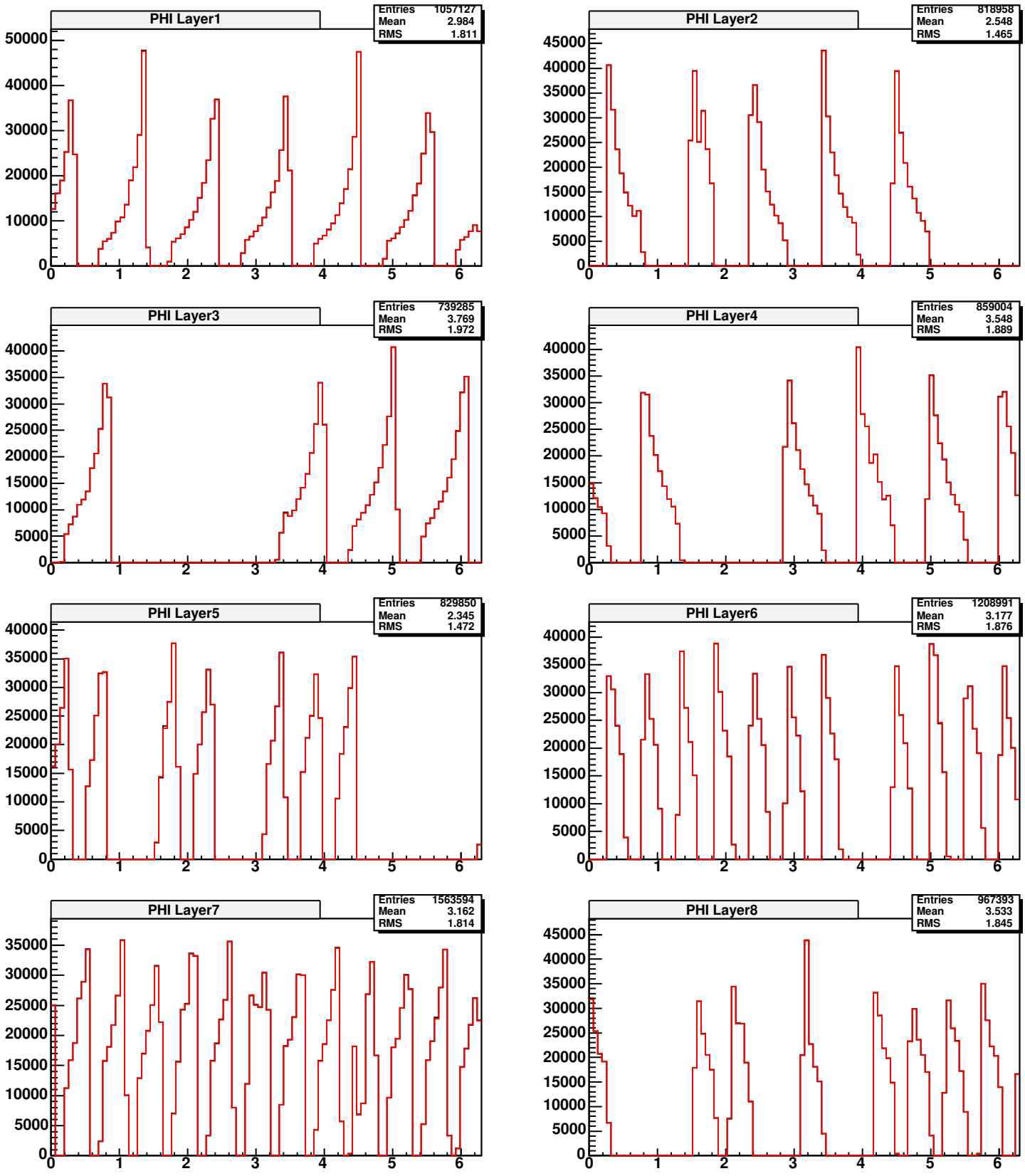
SmtClusters (ClustrBar2)



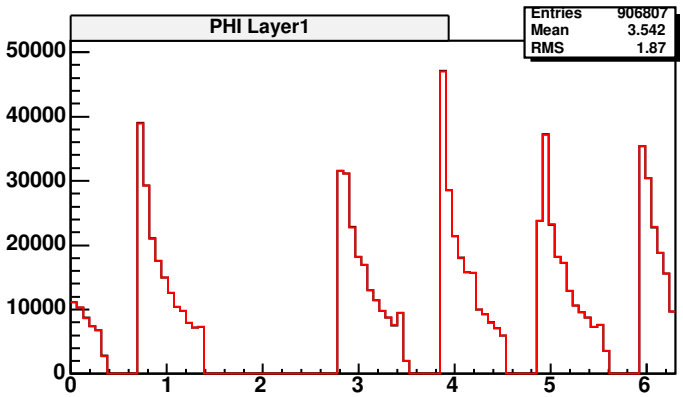
SmtClusters (ClustrBar3)

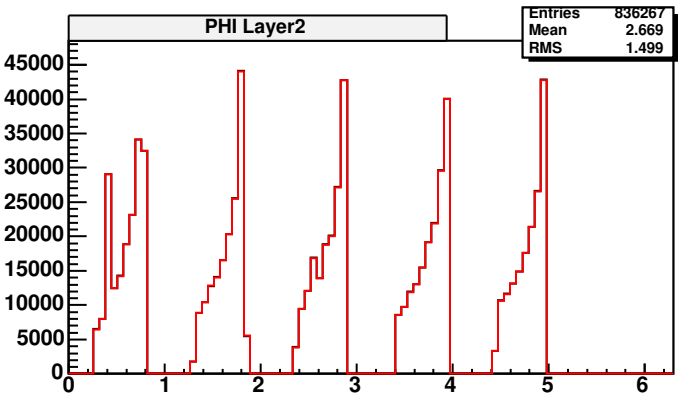


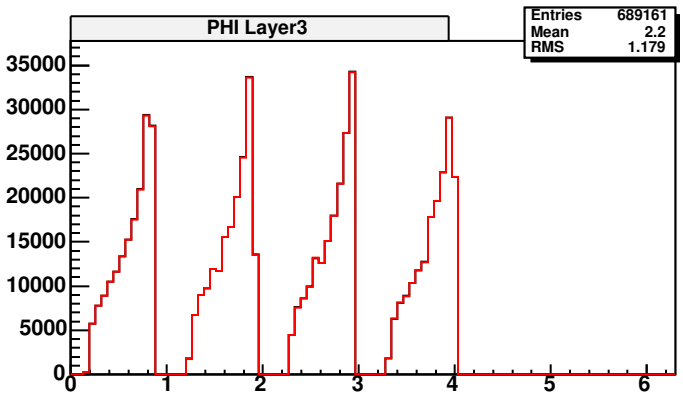
SmtClusters (ClustrBar4)

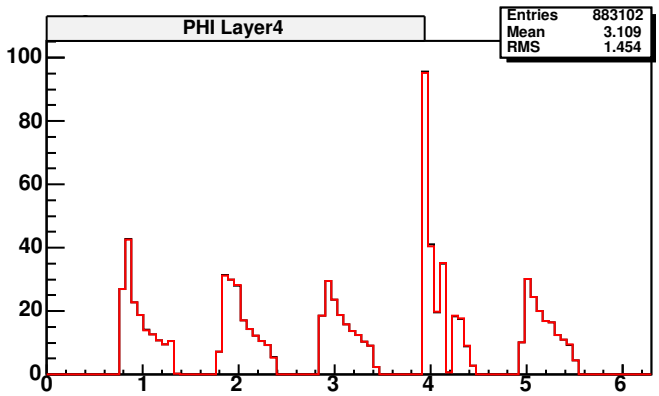


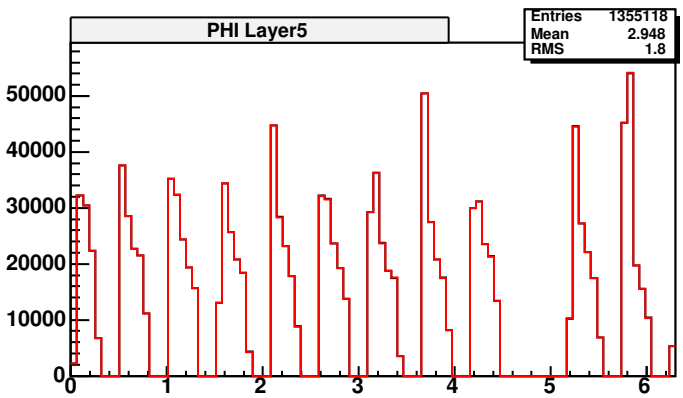
SmtClusters (ClustrBar5)

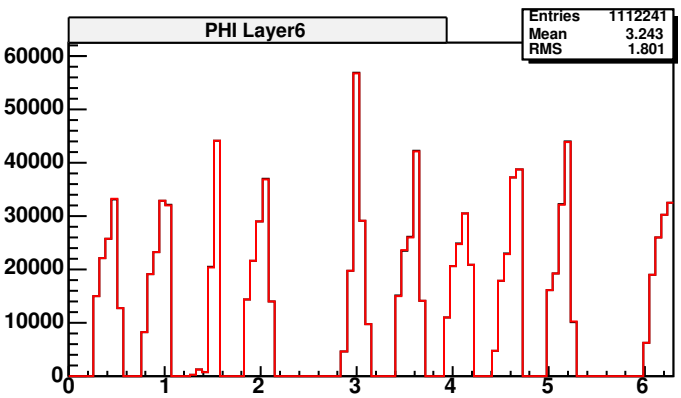


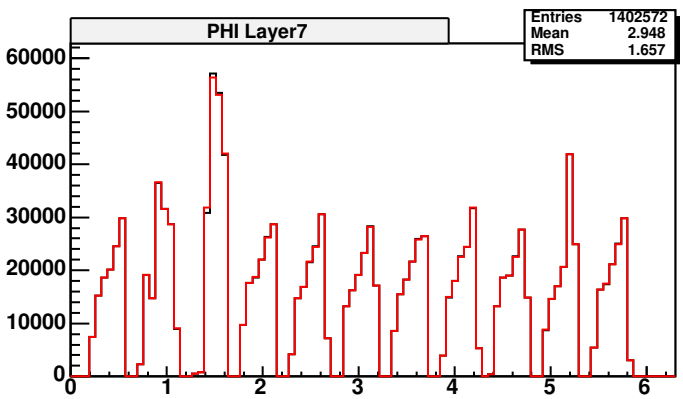


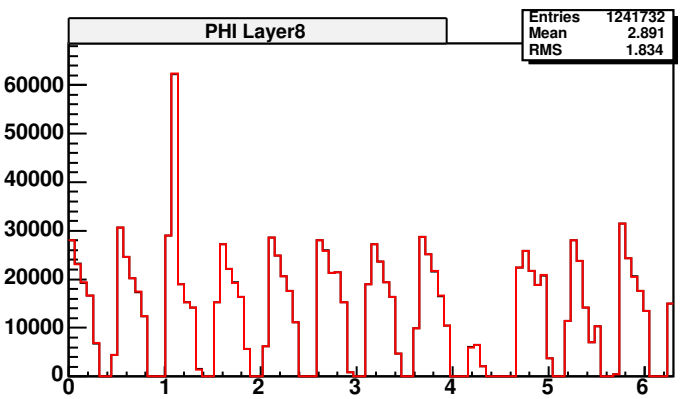




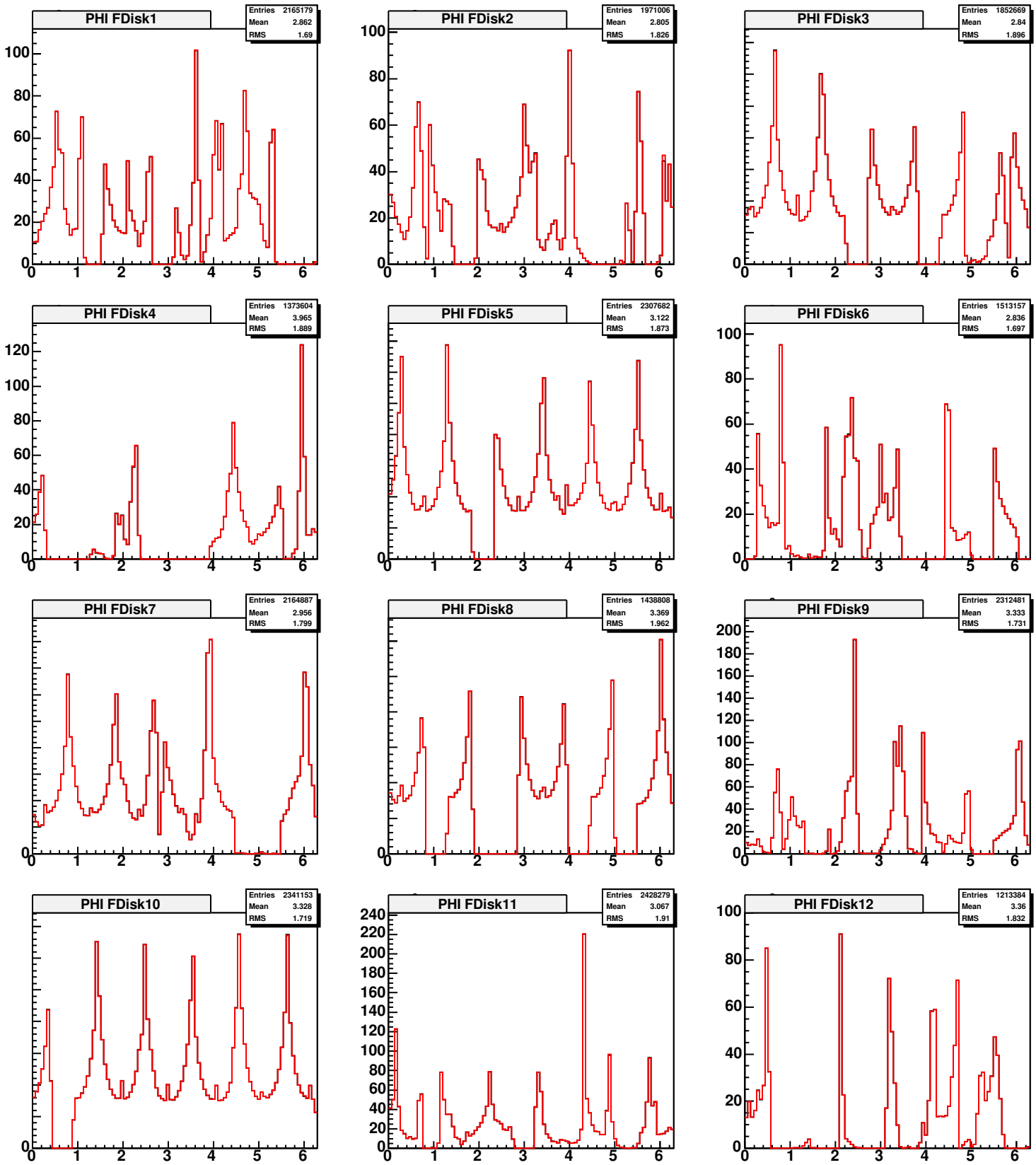




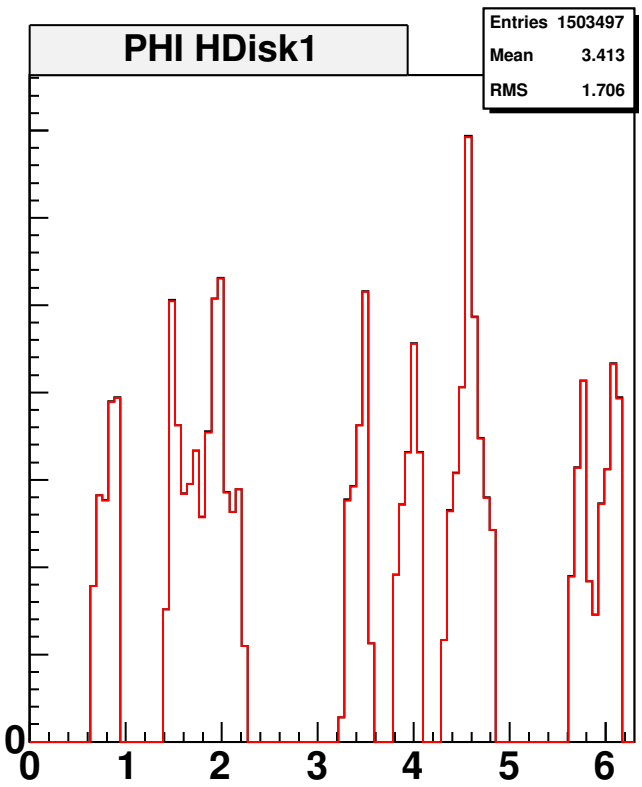


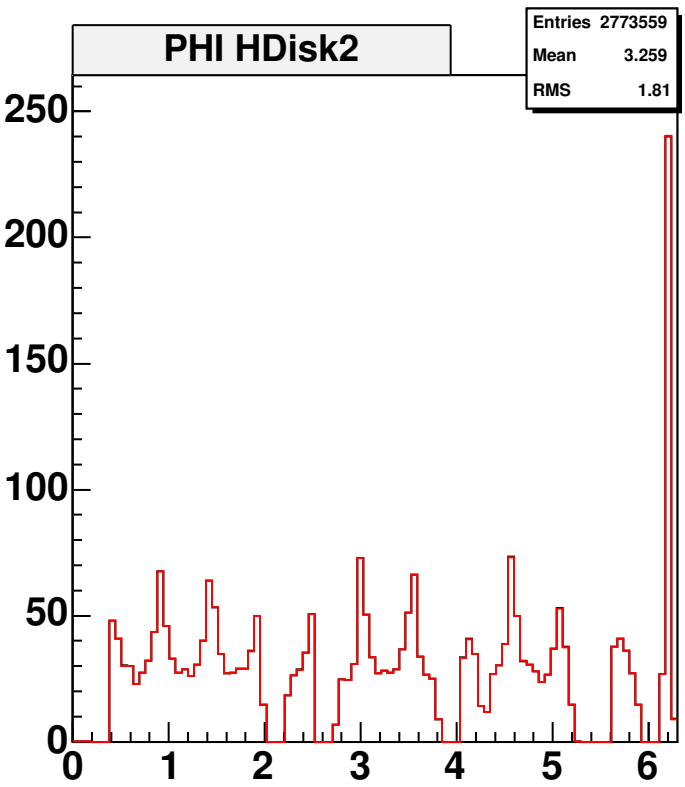


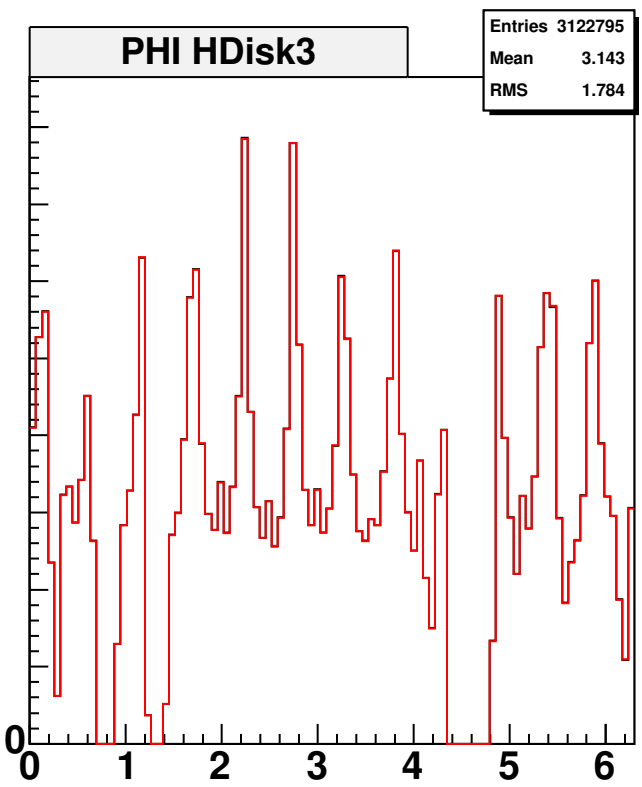
SmtClusters (ClustrBar6)

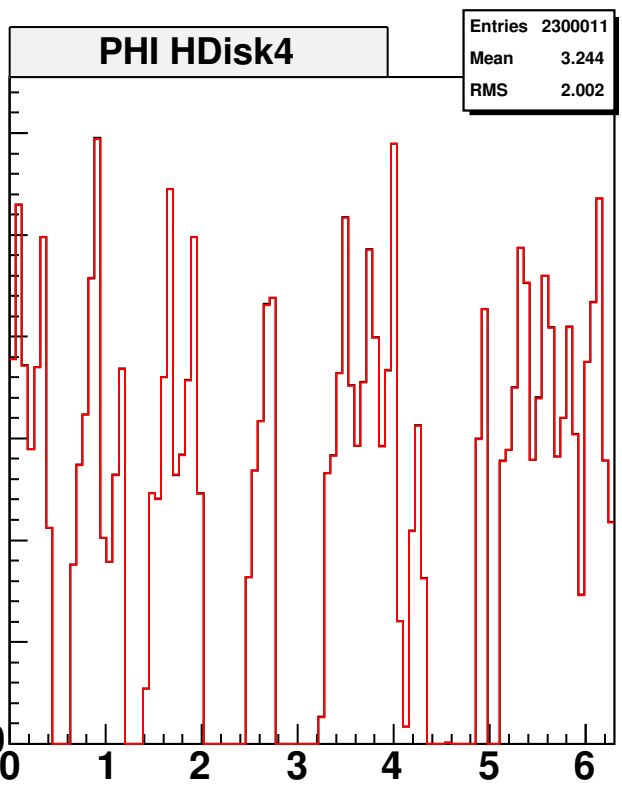


SmtClusters (FDiskClusters)

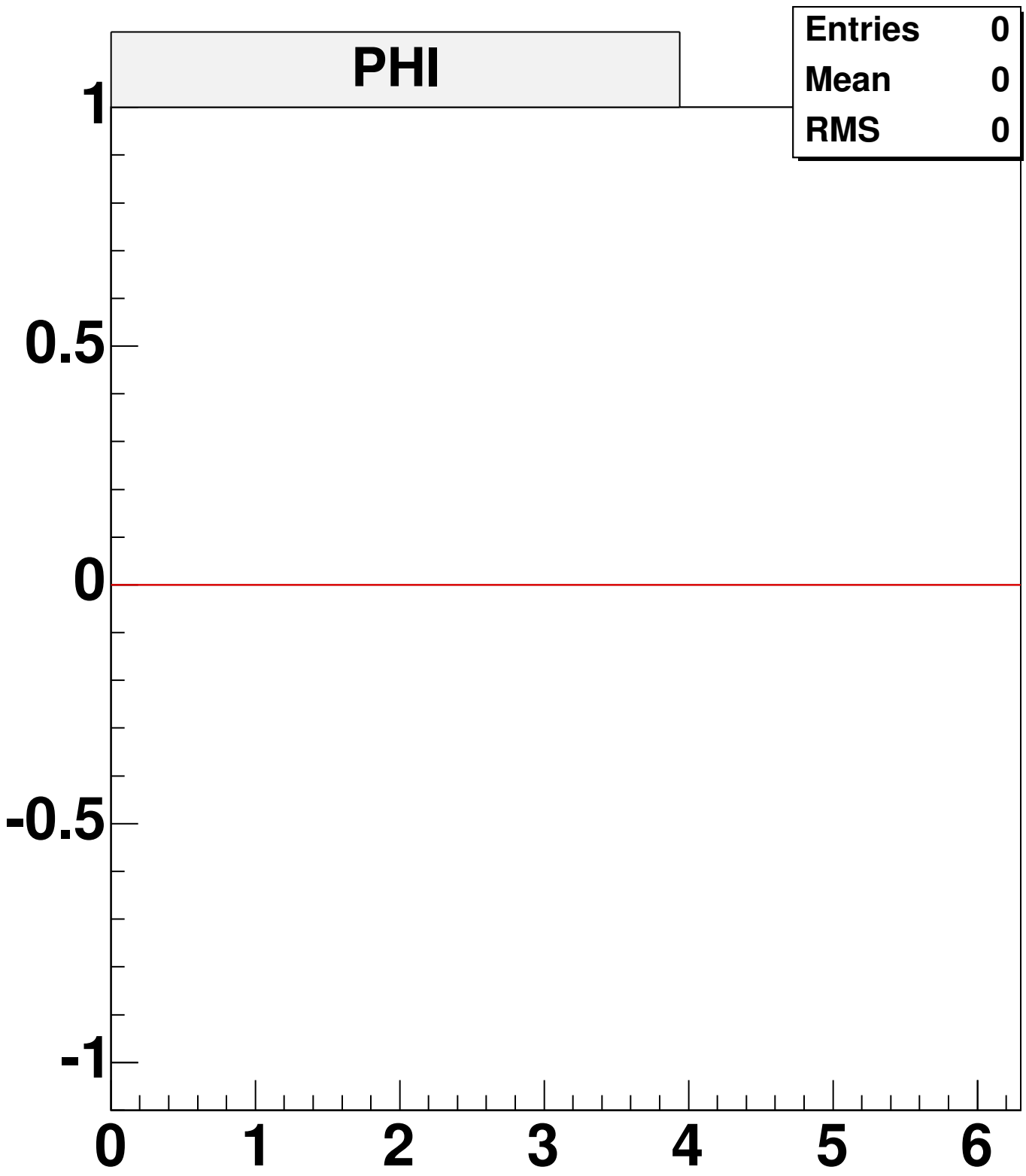


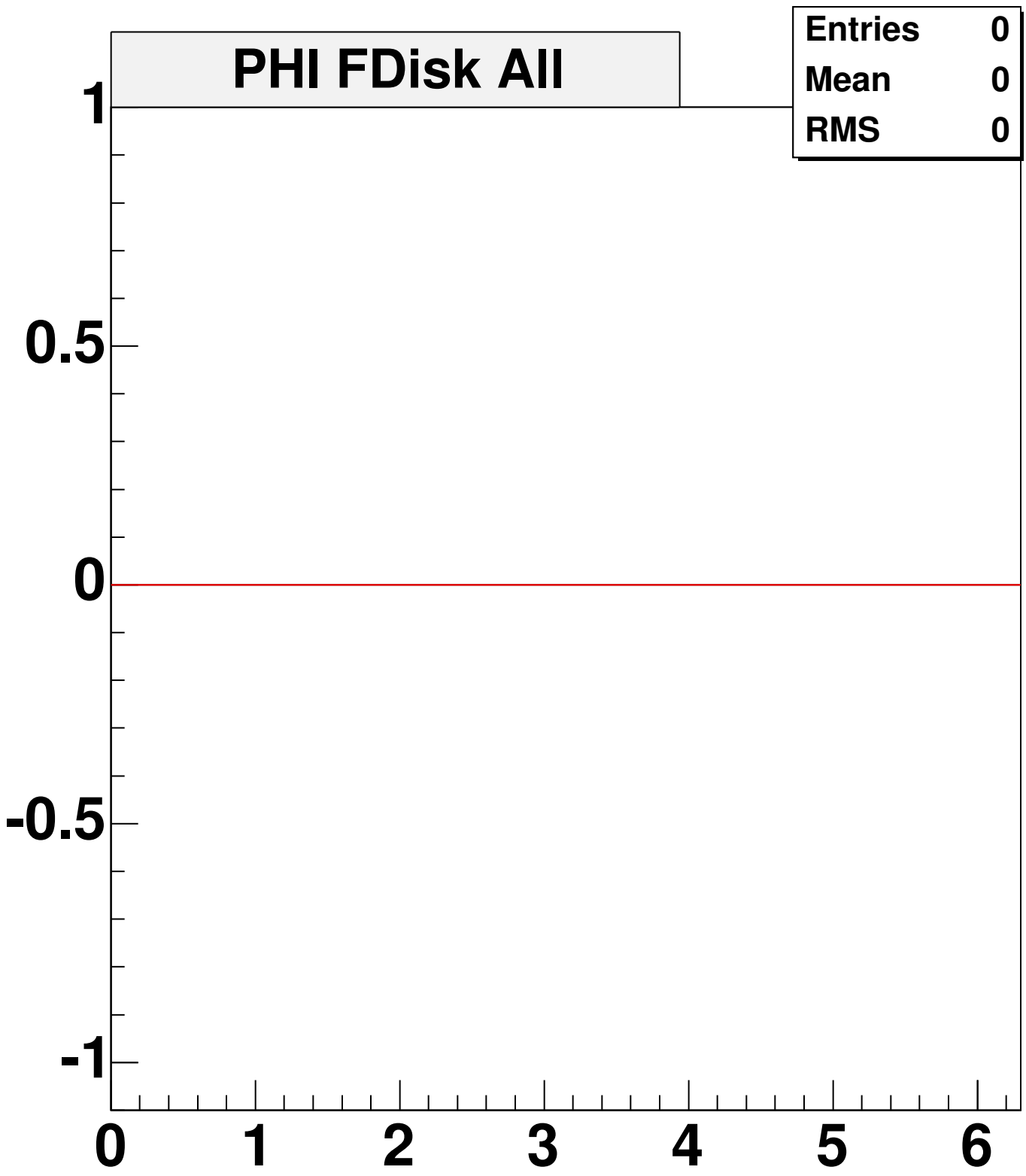


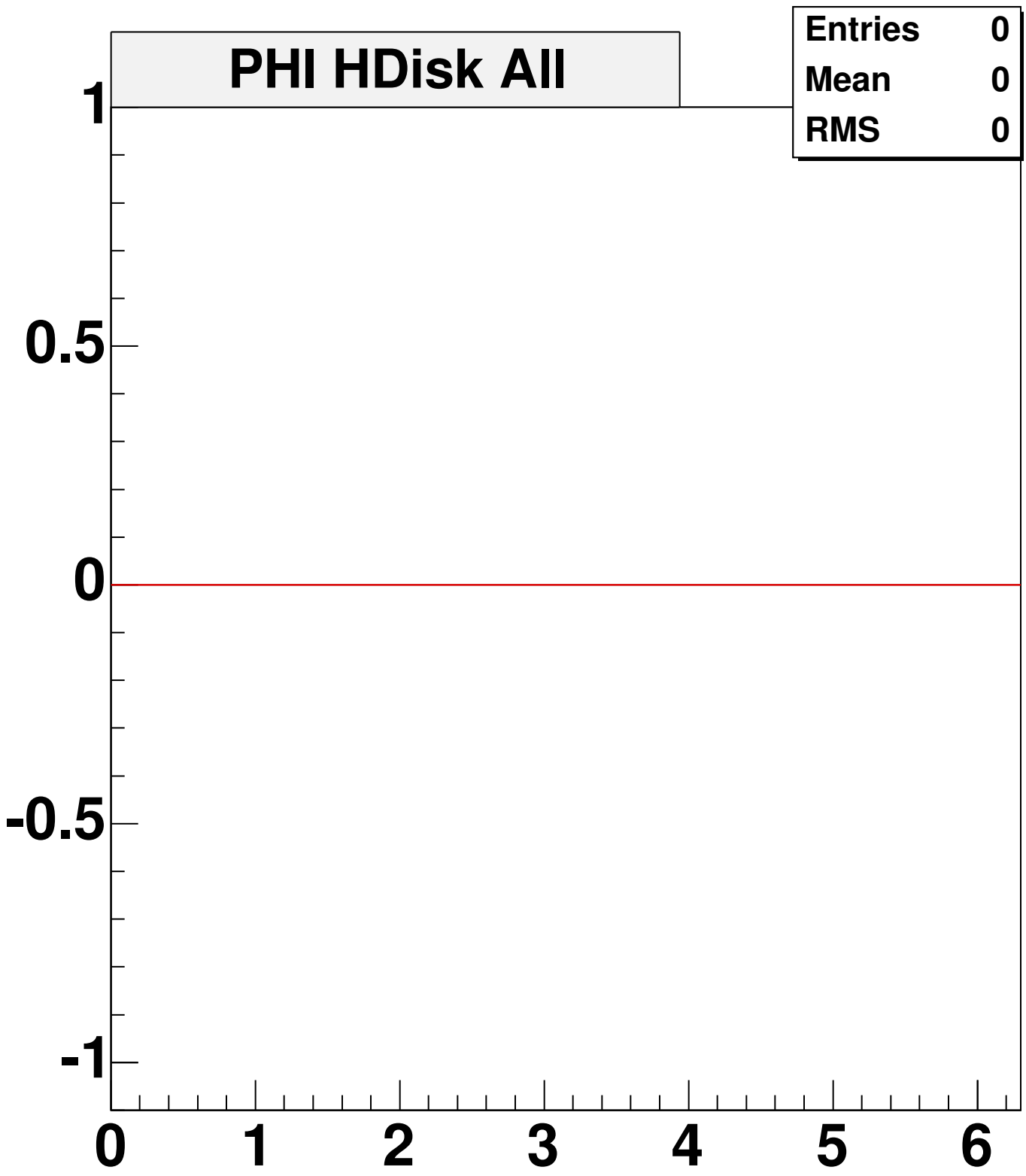


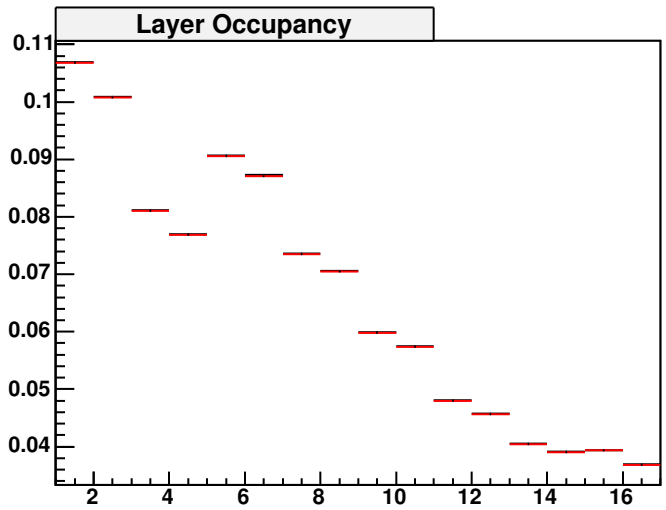


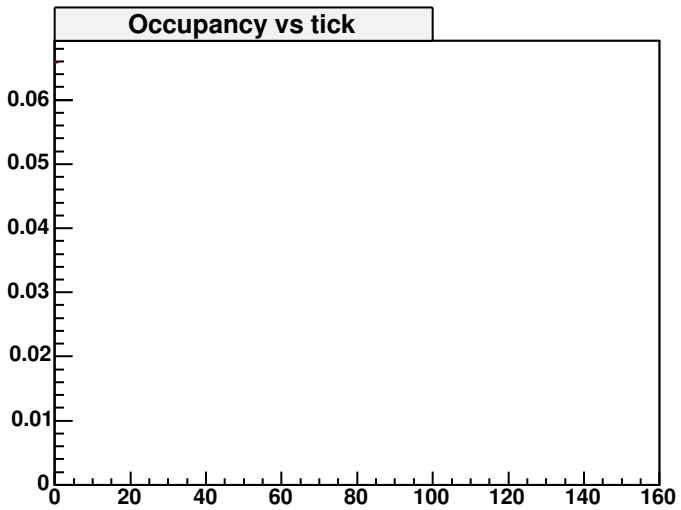
SmtClusters (HDiskClusters)

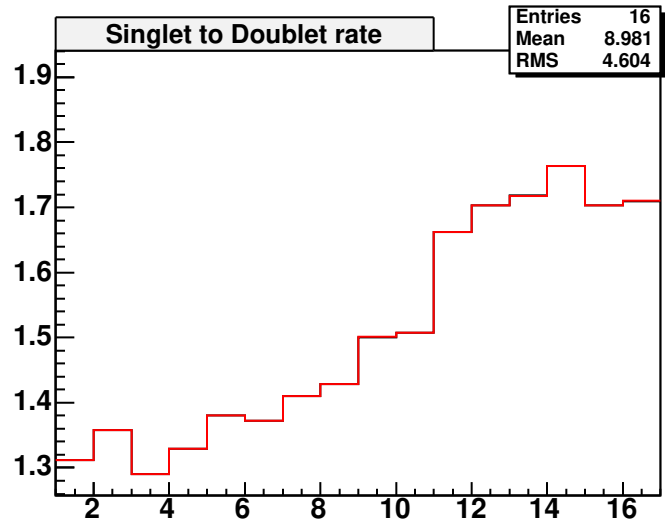

PHI
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)

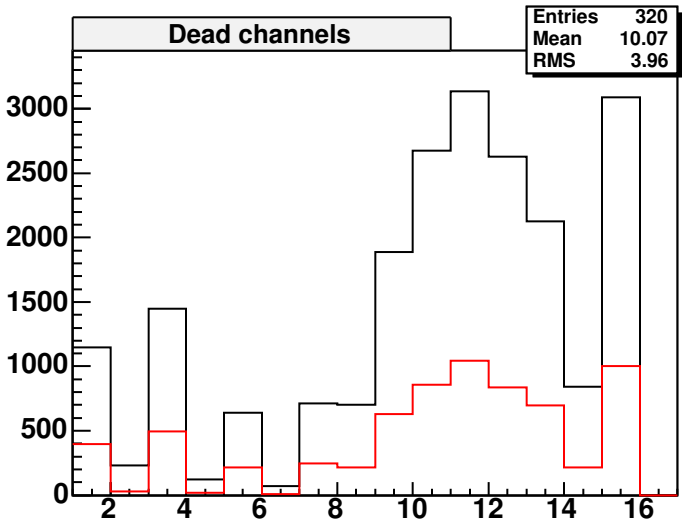

PHI FDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allFDiskTClusters)

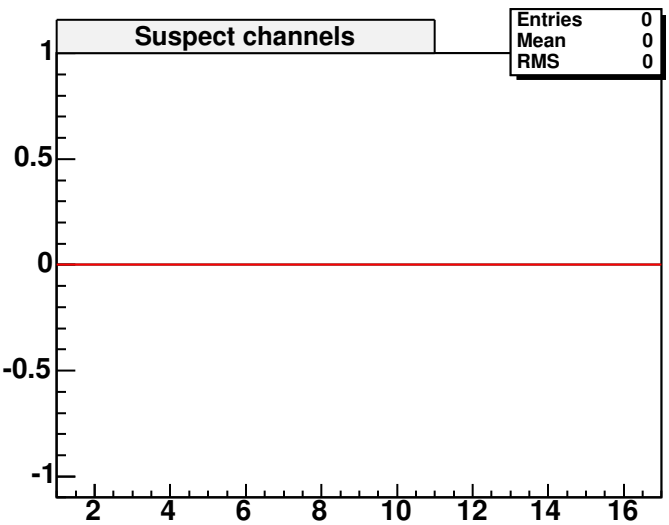

PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allHDiskTClusters)

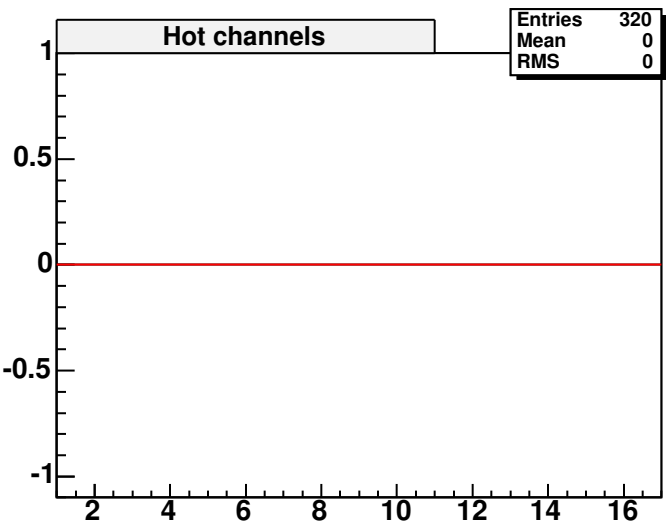




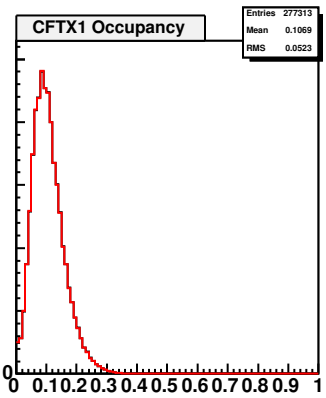


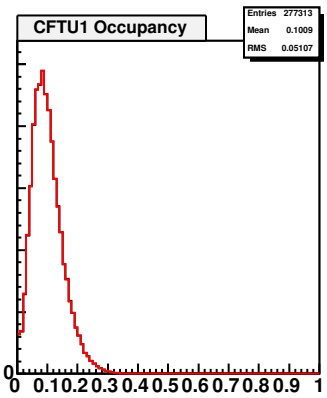


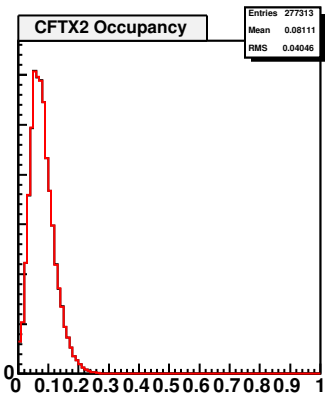


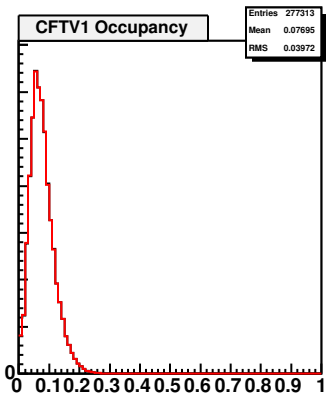


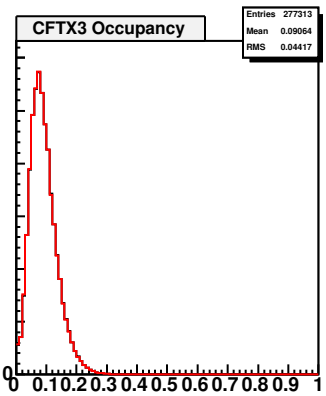
CFT Summary (All Clusters)

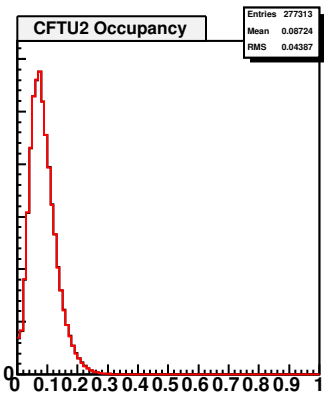


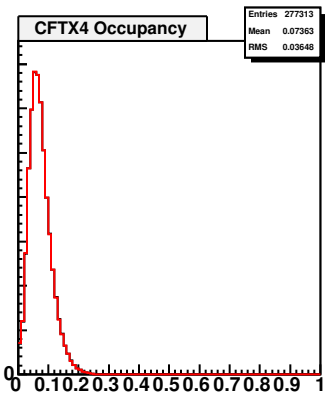


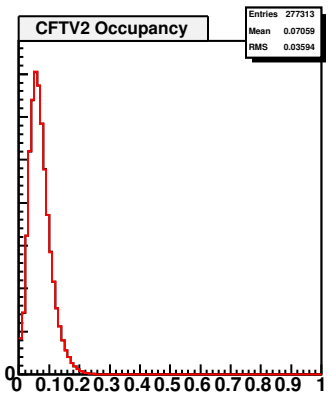


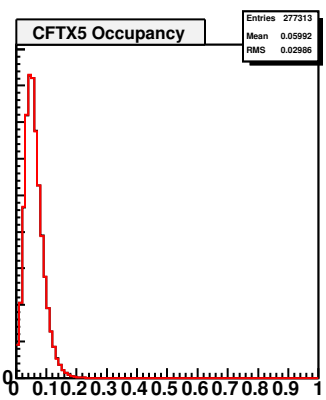


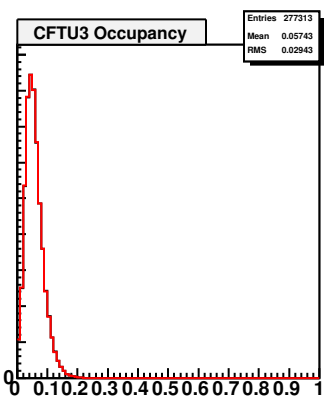


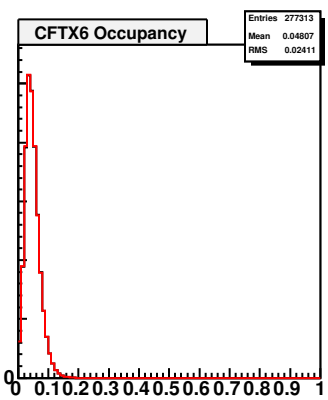


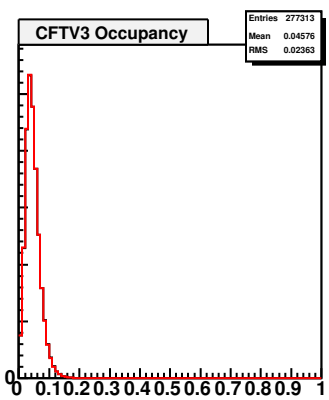


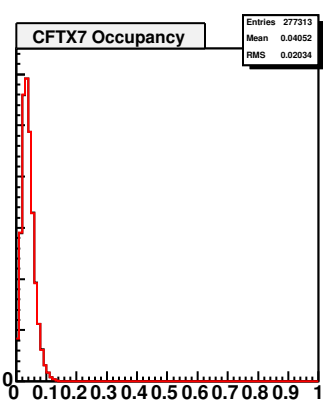


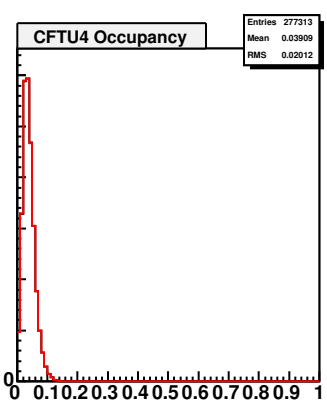


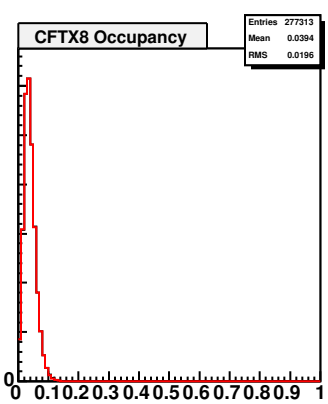


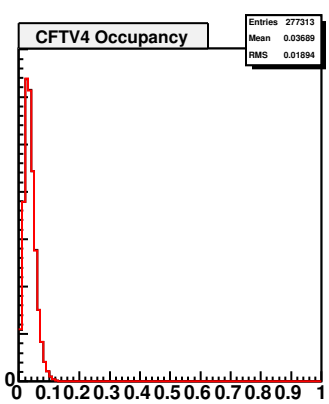




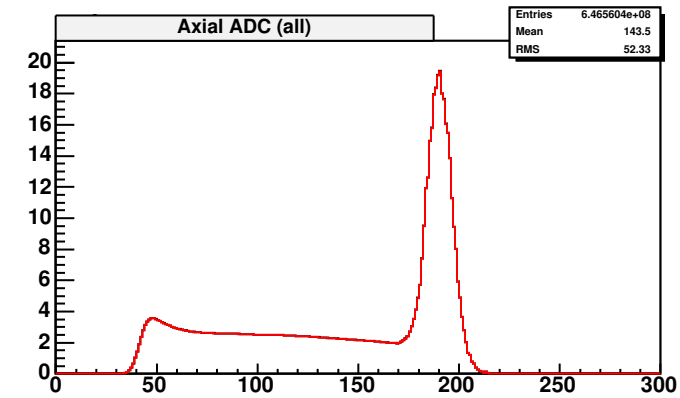


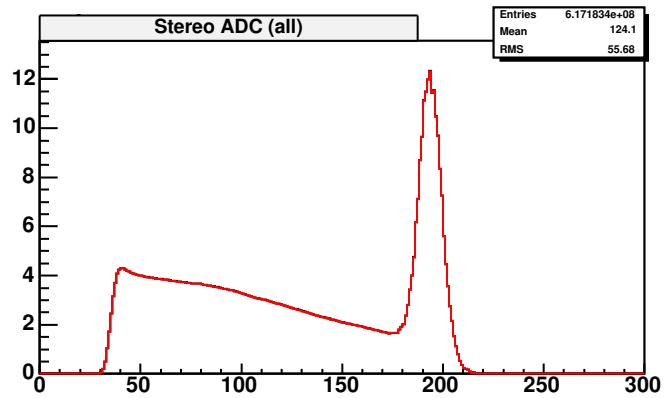


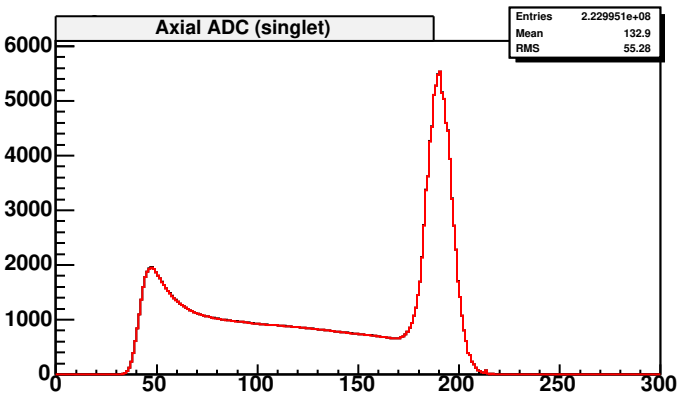


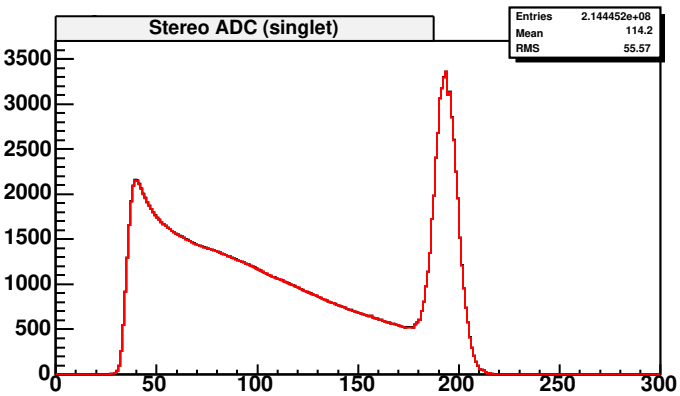


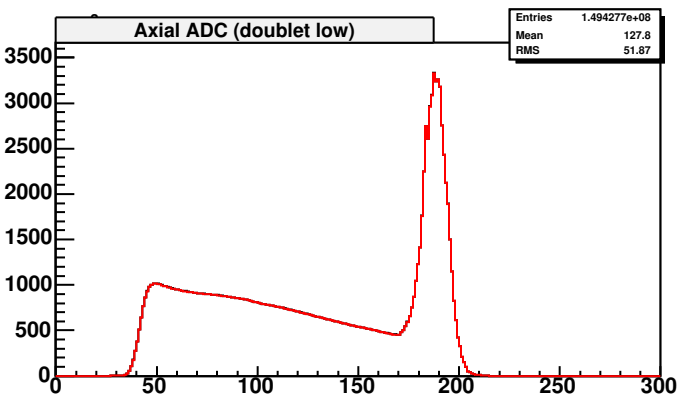
CFT Occupancy (All Clusters)

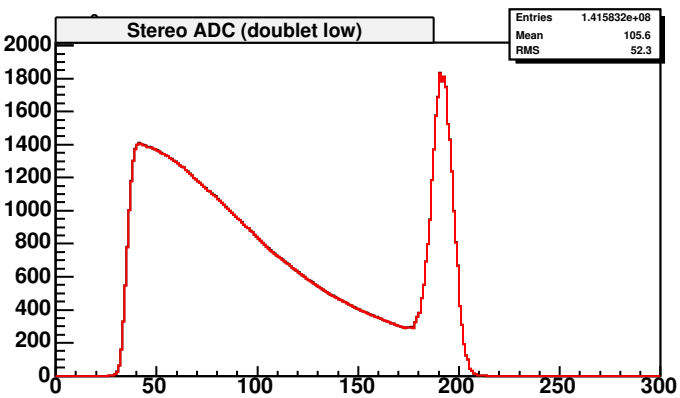


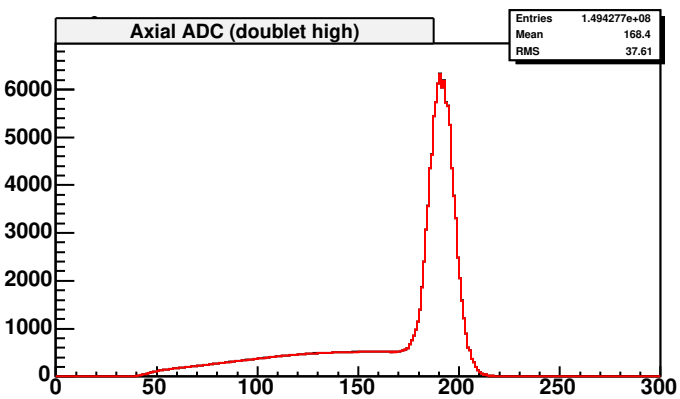


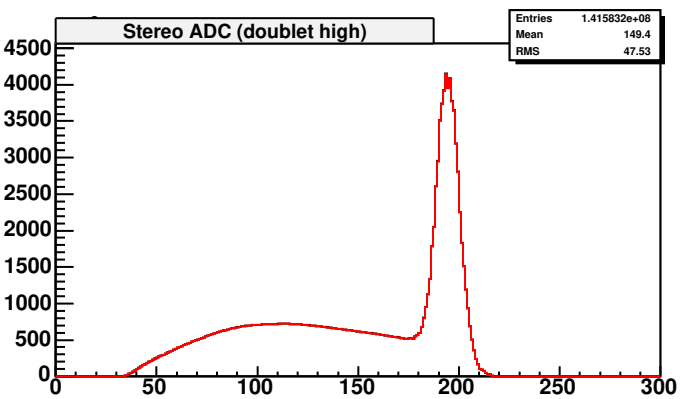




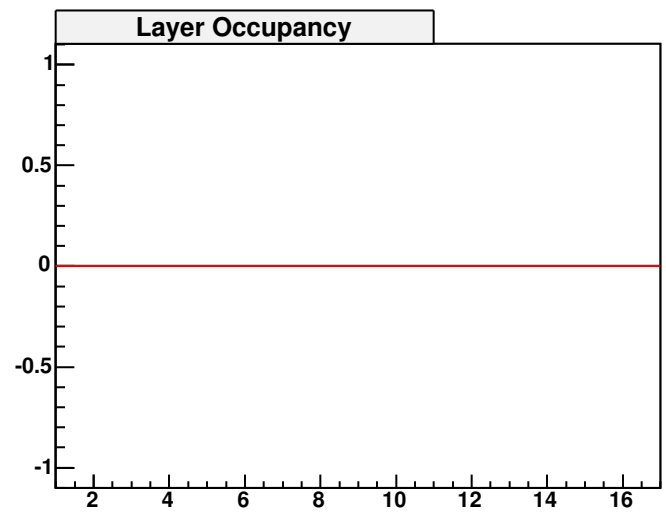


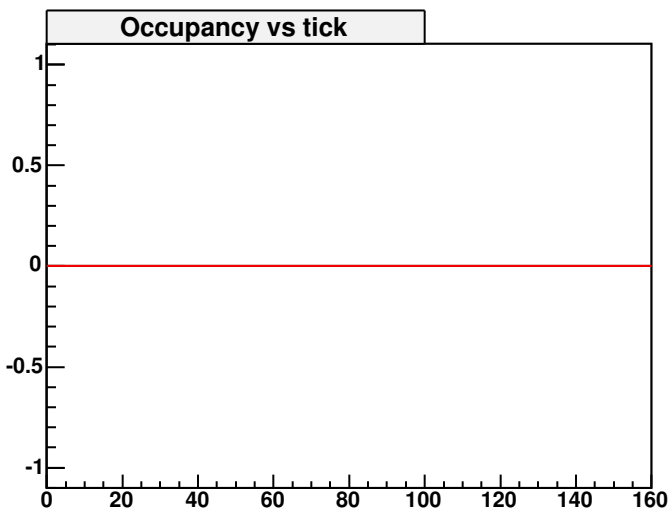


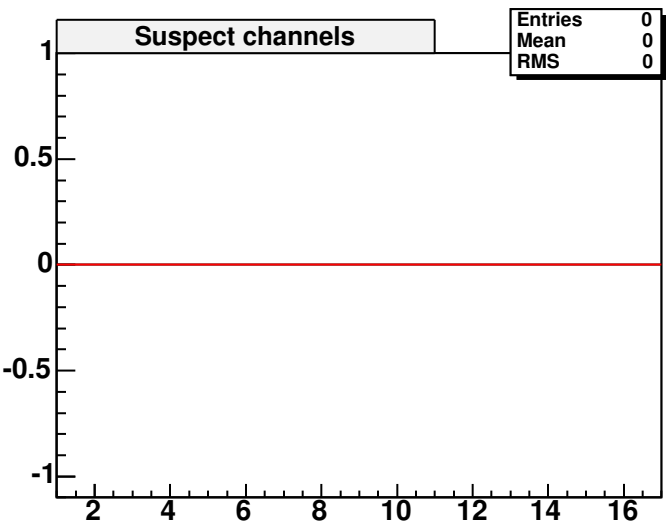


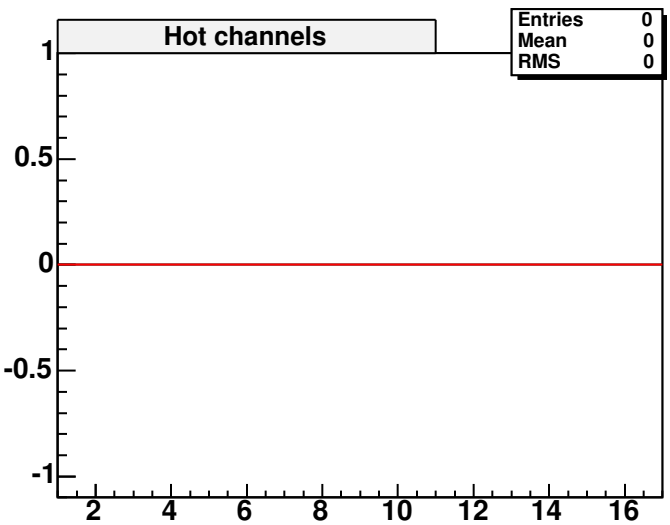


CFT ADC Summary (All Clusters)

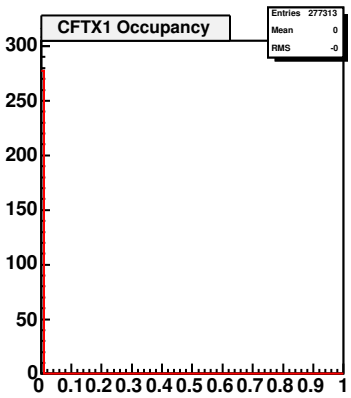


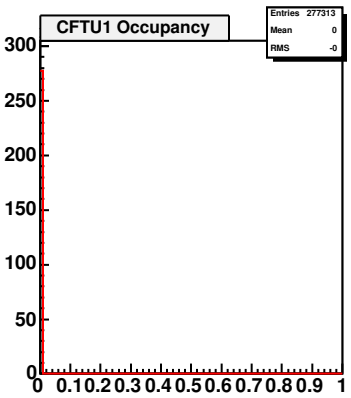


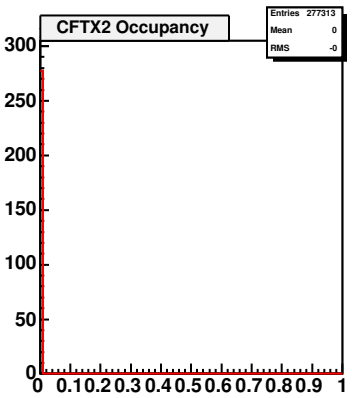


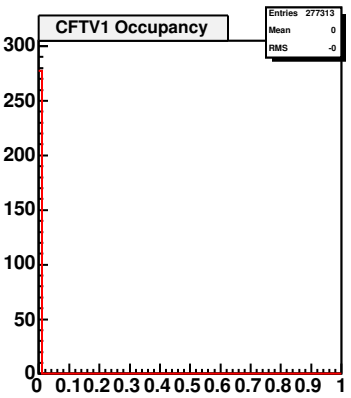


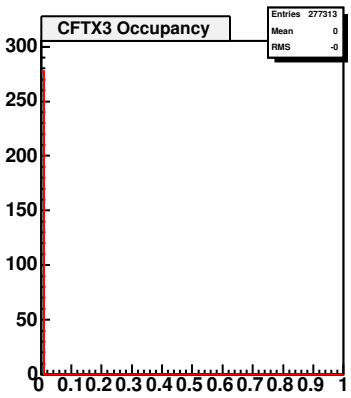
CFT Summary (Clusters on tracks)

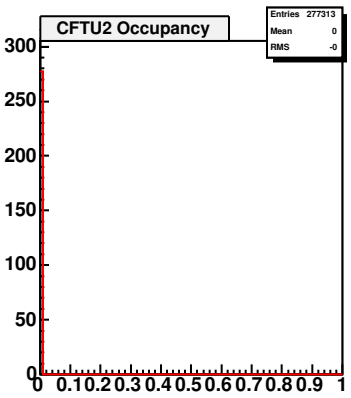


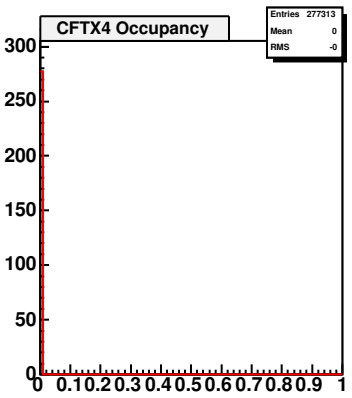


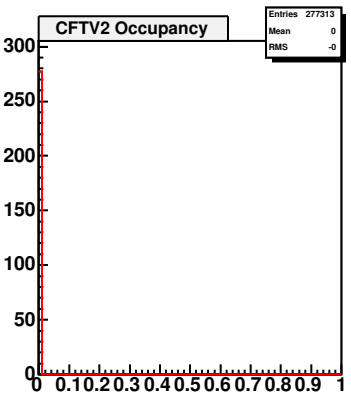


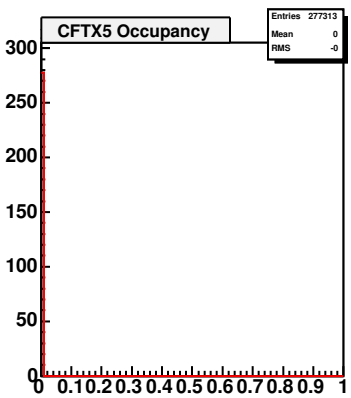


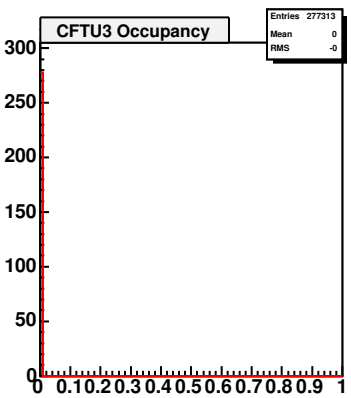


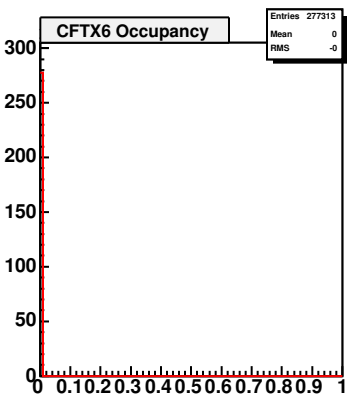


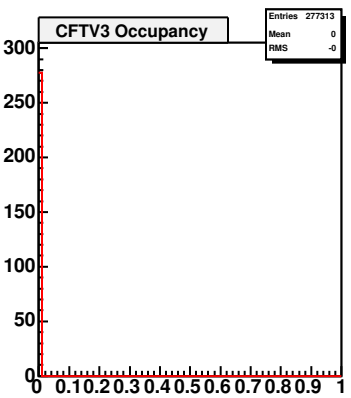


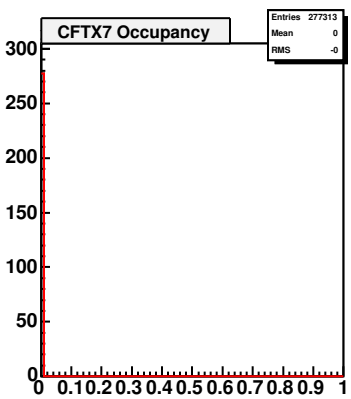


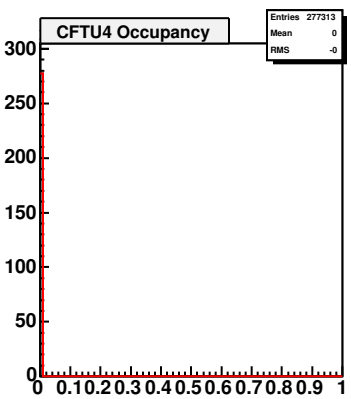


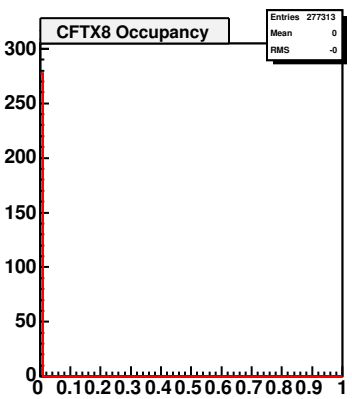


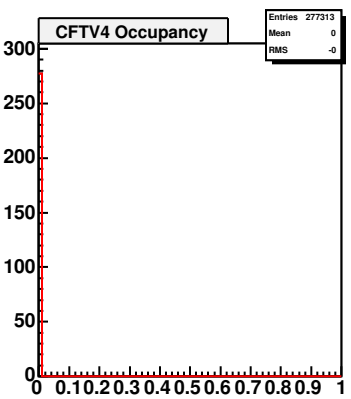




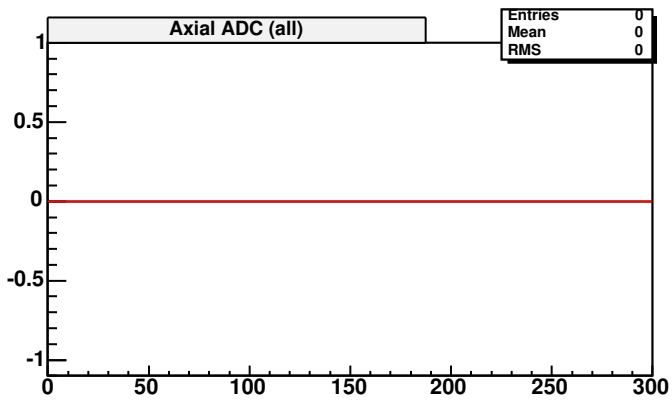


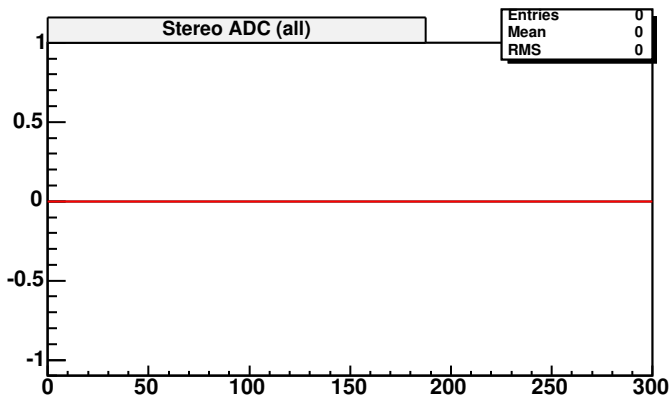


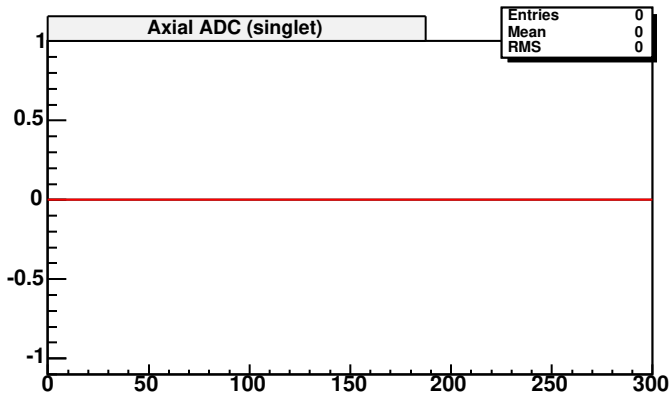


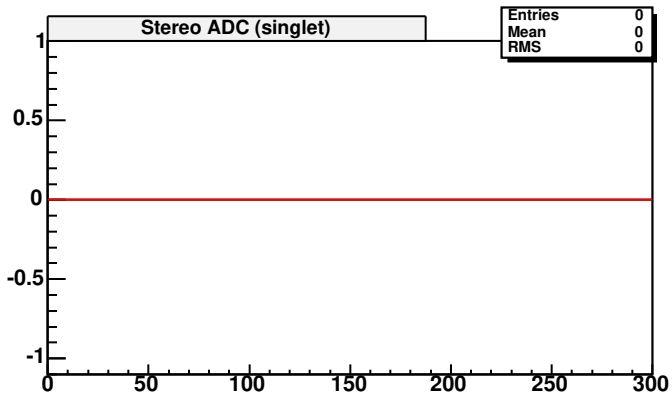


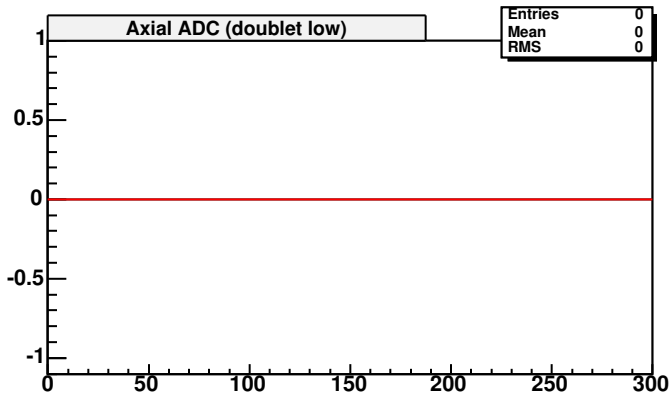
CFT Occupancy (Clusters on tracks)

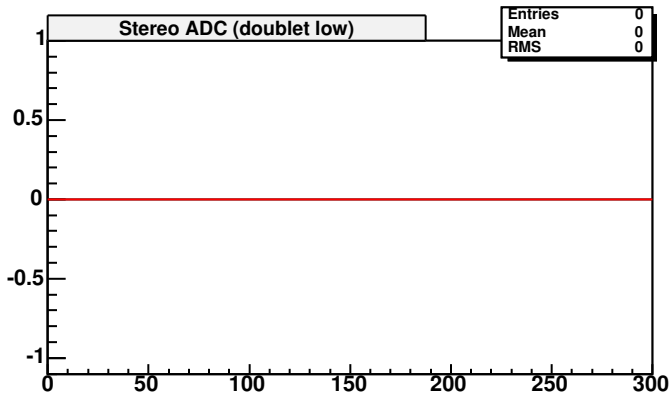


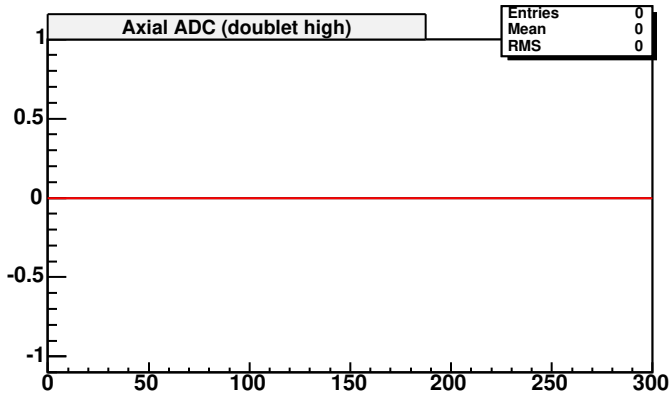


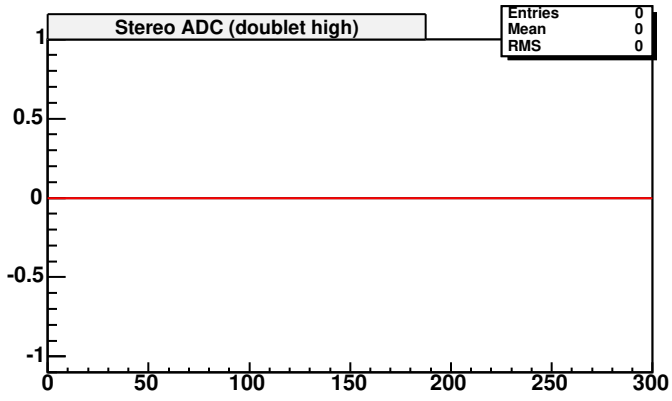




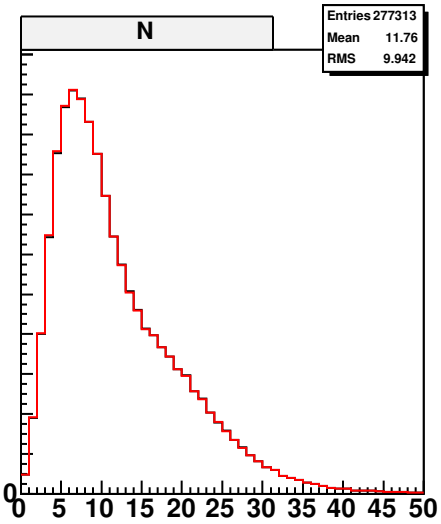








CFT ADC Summary (Clusters on tracks)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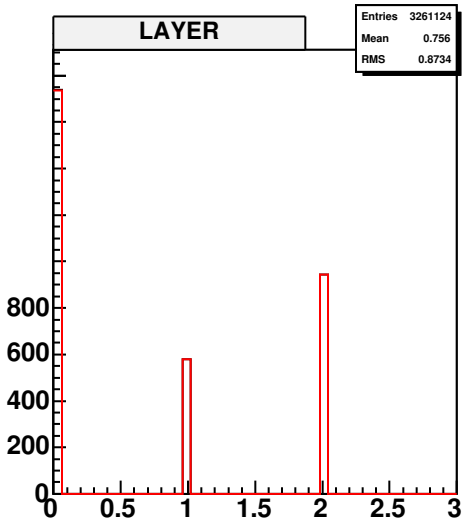
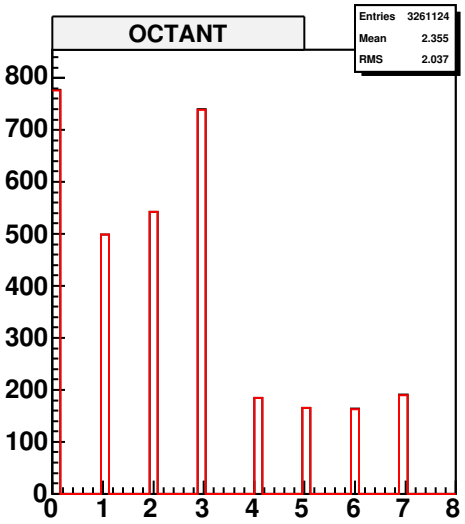
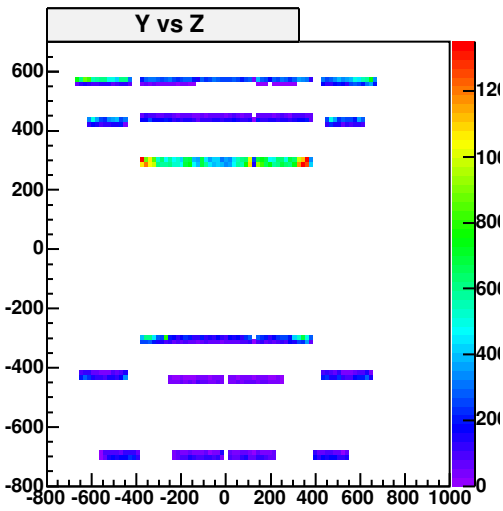
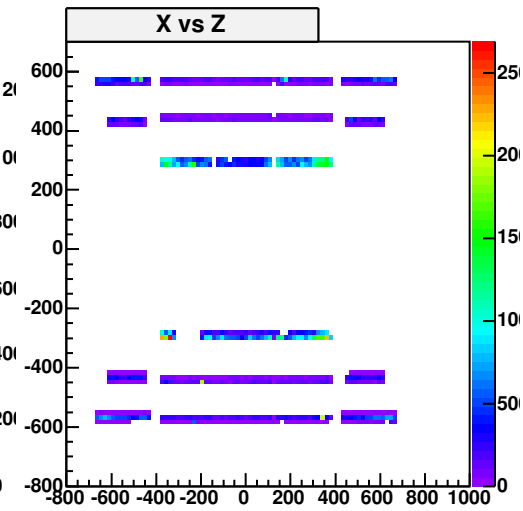
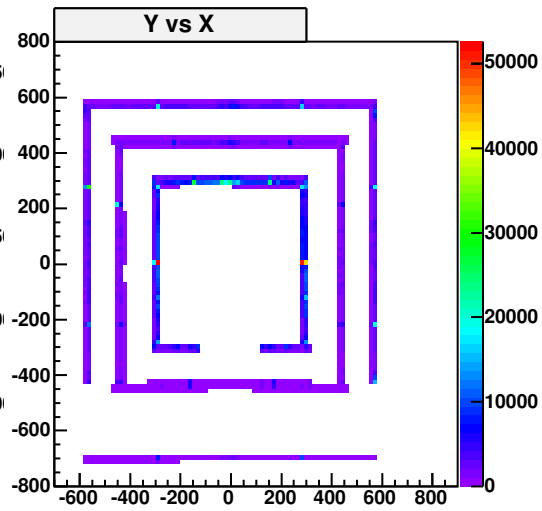
Entries 277313
Mean 11.76
RMS 9.942

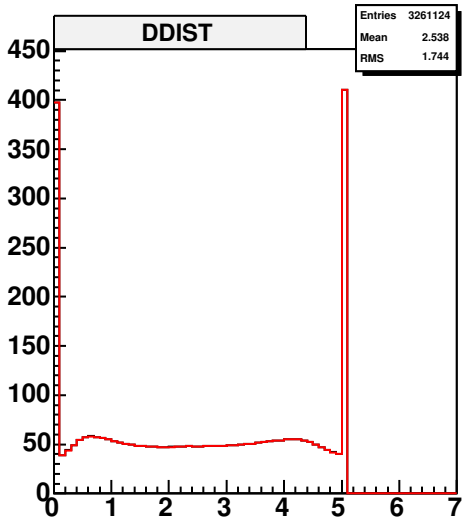

LAYER
Entries 3261124
Mean 0.756
RMS 0.8734

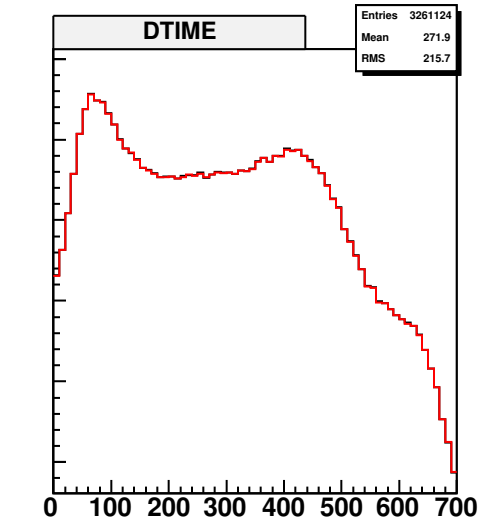

OCTANT
Entries 3261124
Mean 2.355
RMS 2.037


Y vs Z

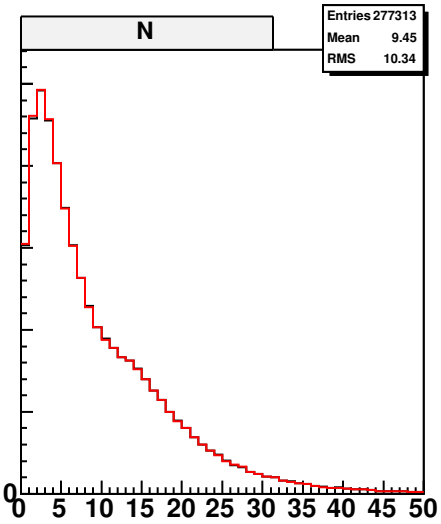

X vs Z

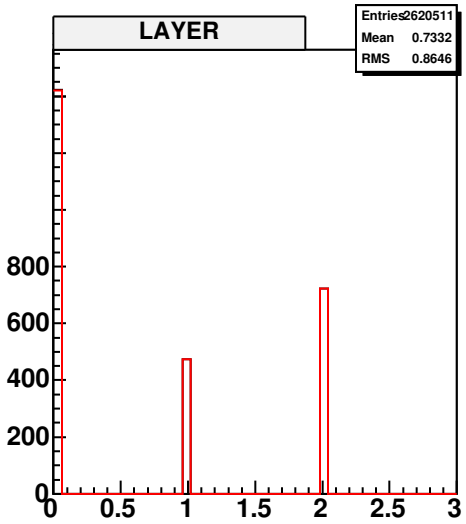

Y vs X

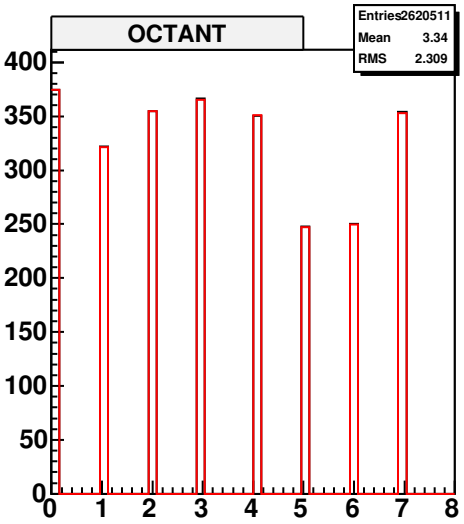

DDIST
Entries 3261124
Mean 2.538
RMS 1.744

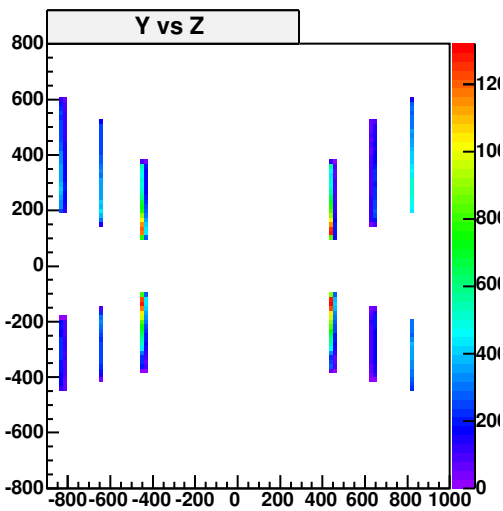

DTIME
Entries 3261124
Mean 271.9
RMS 215.7

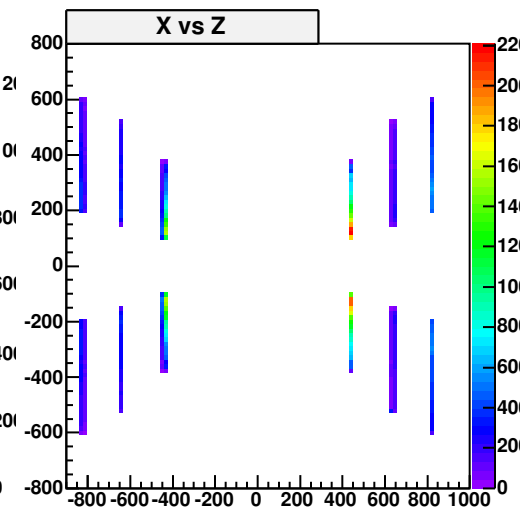
MuonPDT (All)

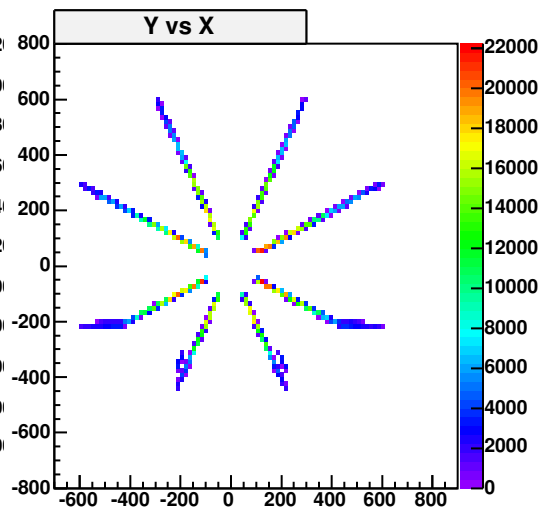

N
Entries 277313
Mean 9.45
RMS 10.34

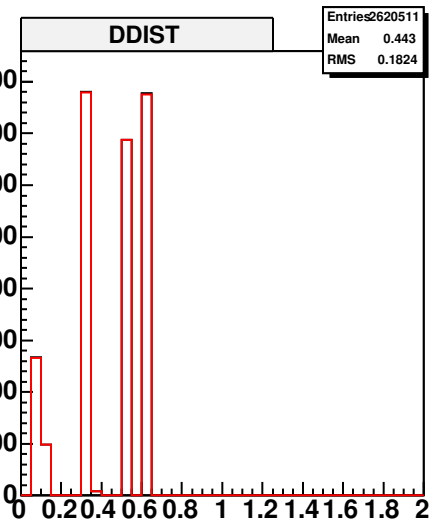

LAYER
Entries 2620511
Mean 0.7332
RMS 0.8646

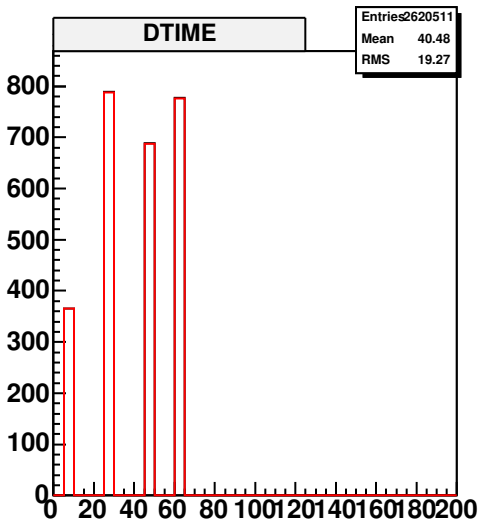

OCTANT
Entries 2620511
Mean 3.34
RMS 2.309


Y vs Z

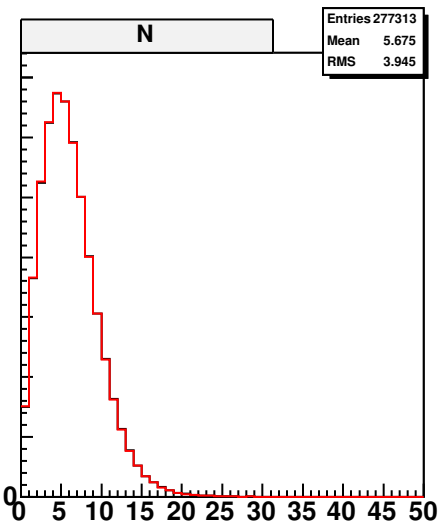

X vs Z

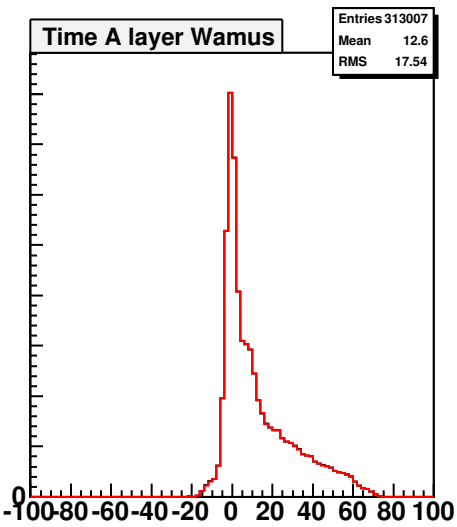

Y vs X

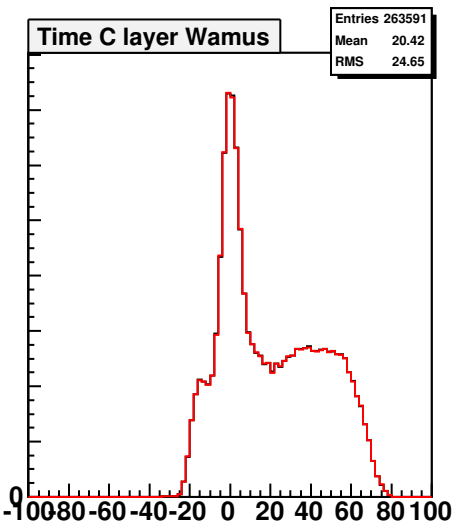

DDIST
Entries 2620511
Mean 0.443
RMS 0.1824

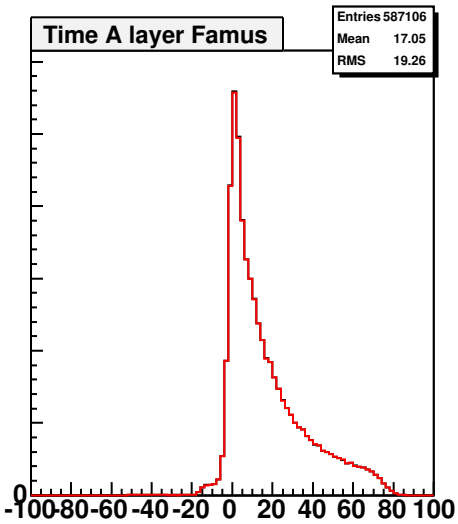

DTIME
Entries 2620511
Mean 40.48
RMS 19.27

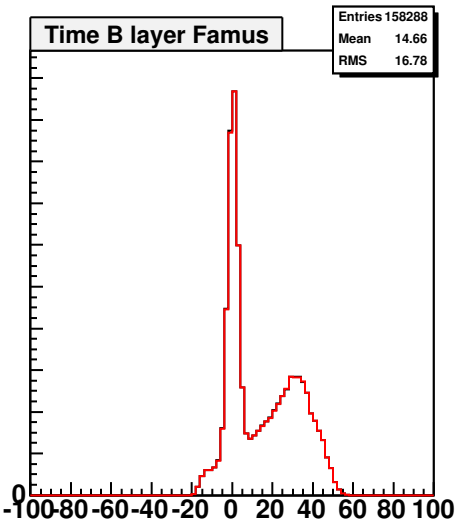
MuonMDT (All)

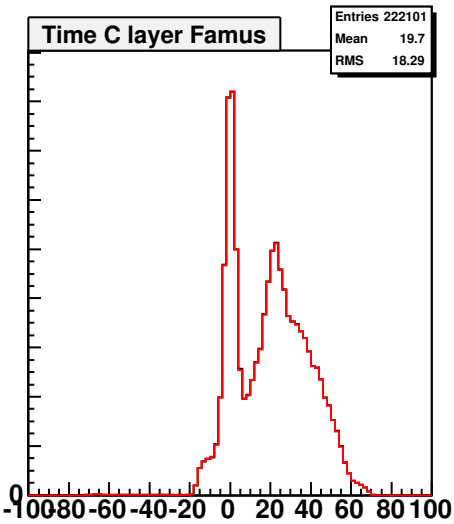

N
Entries 277313
Mean 5.675
RMS 3.945

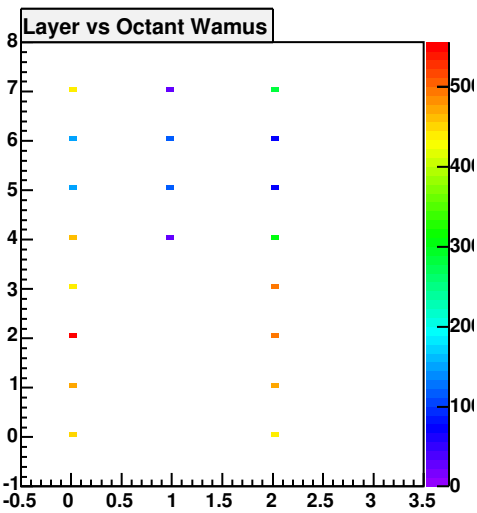

Time A layer Wamus
Entries 313007
Mean 12.6
RMS 17.54

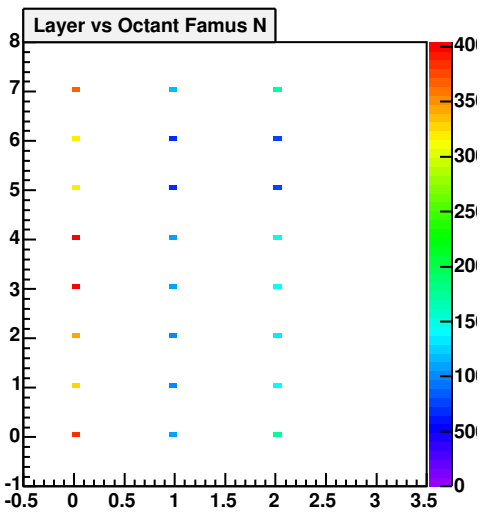

Time C layer Wamus
Entries 263591
Mean 20.42
RMS 24.65

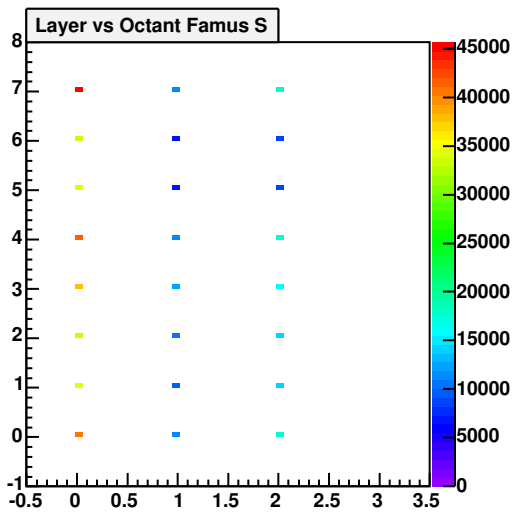

Time A layer Famus
Entries 587106
Mean 17.05
RMS 19.26


Time B layer Famus
Entries 158288
Mean 14.66
RMS 16.78

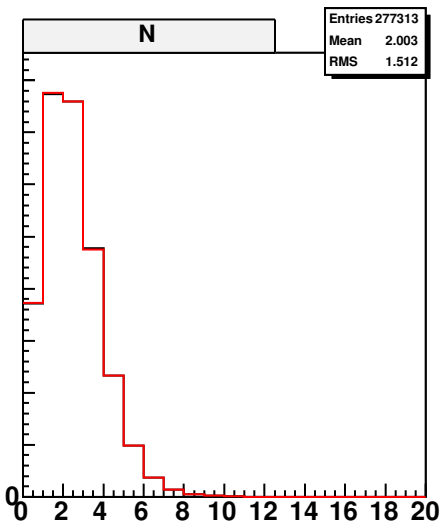

Time C layer Famus
Entries 222101
Mean 19.7
RMS 18.29

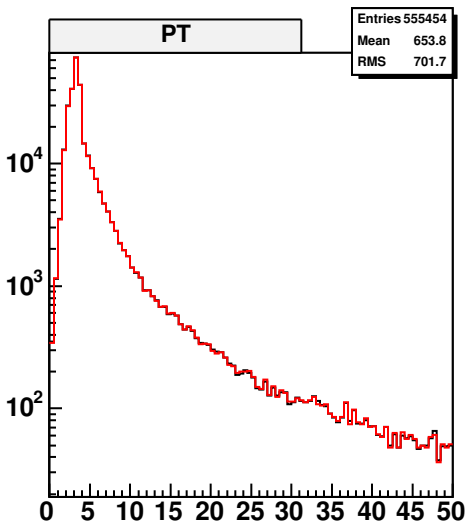

Layer vs Octant Wamus

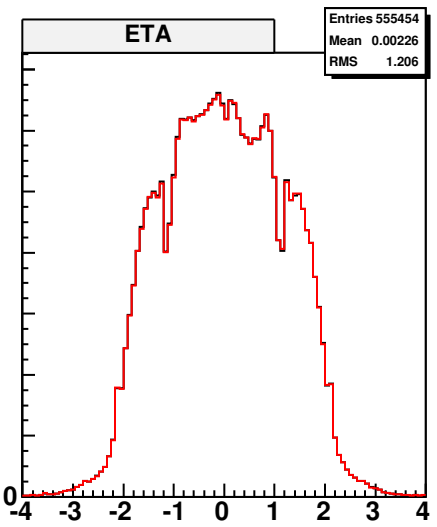

Layer vs Octant Famus N

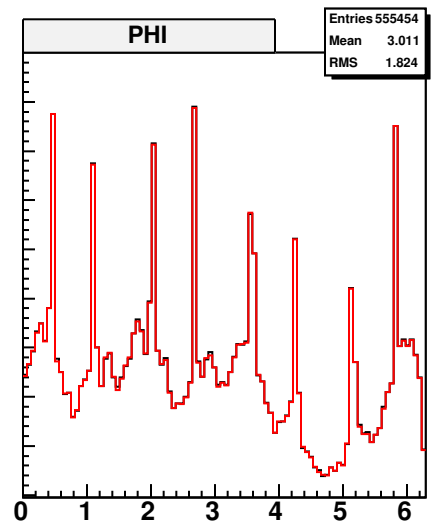

Layer vs Octant Famus S

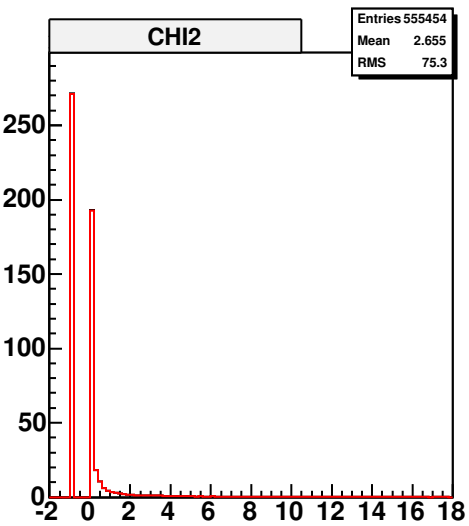
MuonMSC (All)

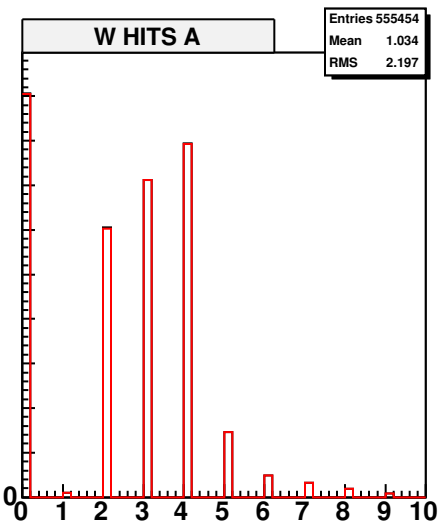


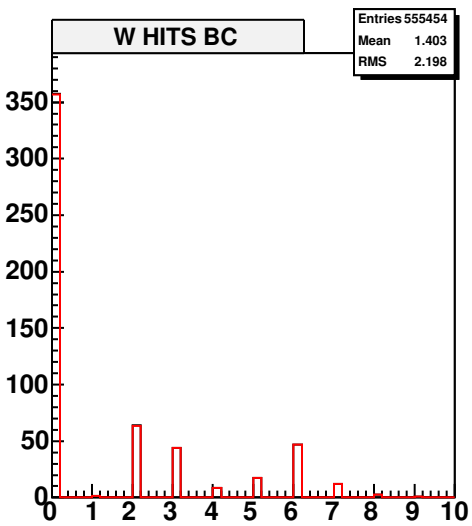


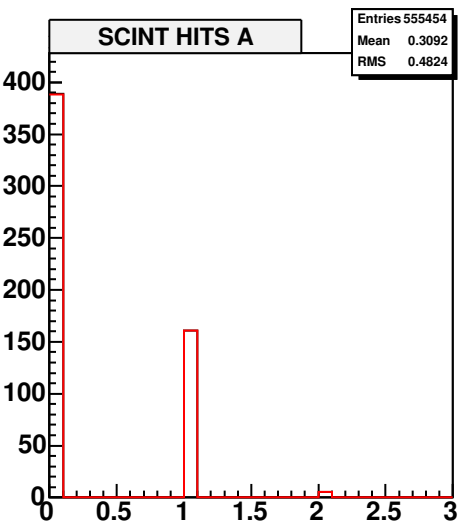


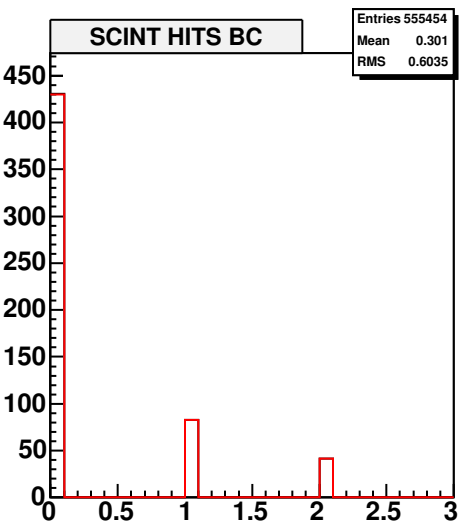




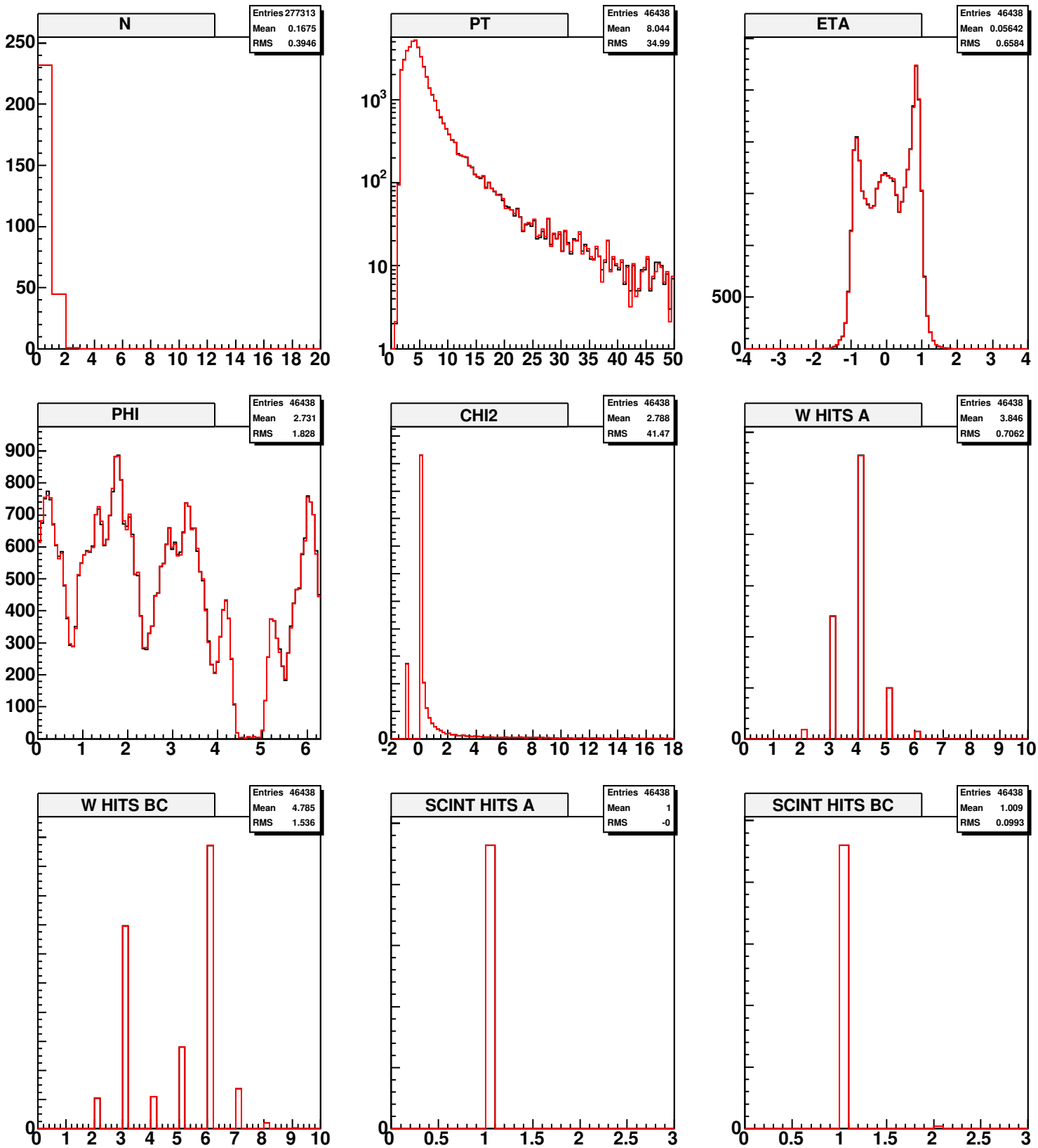




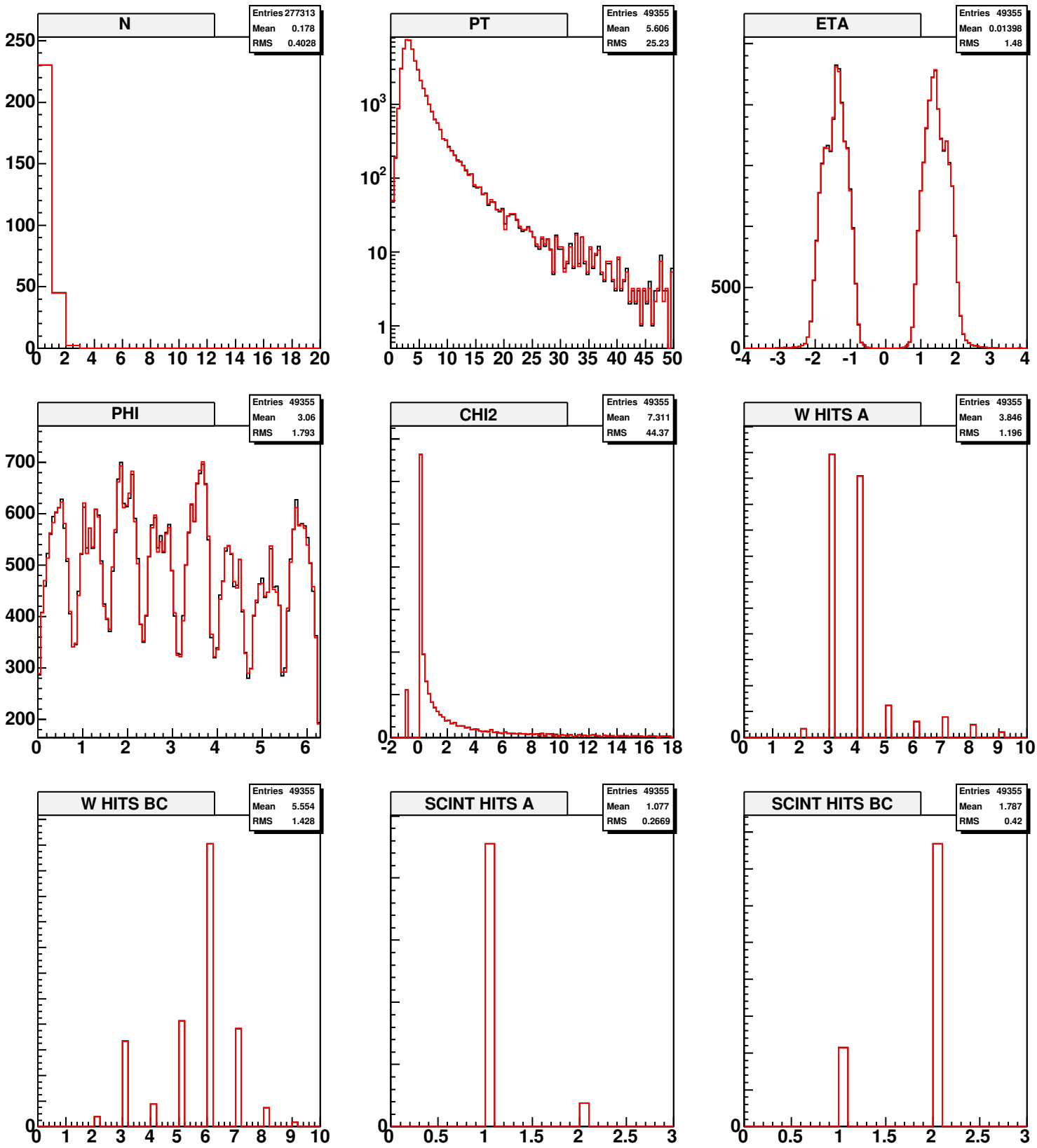




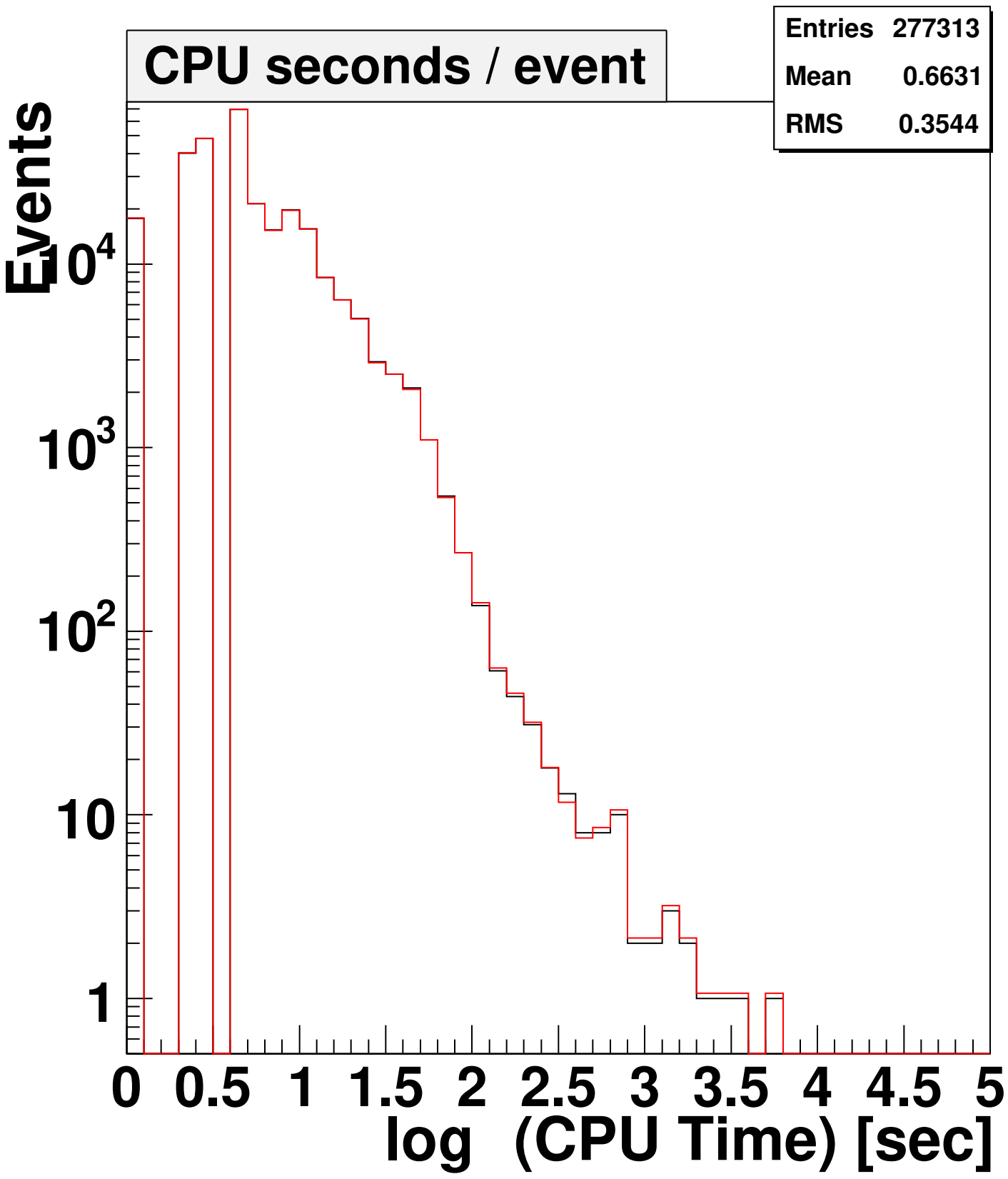
Muon Local Tracks (All)



Muon Local Tracks (MediumWamus)



Muon Local Tracks (MediumFamus)



RECO Performance (Timing)