dayset-2006-08-27-all_3-224622-0_certification_20070
../unmerged/dayset-2006-08-27-all_3-224622-0_certific

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Page 4: Tracks Hits (All)
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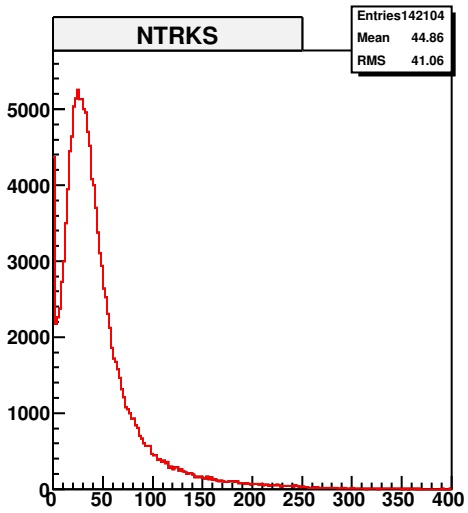
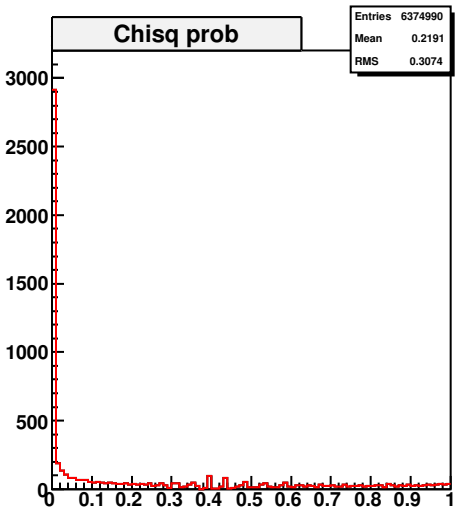
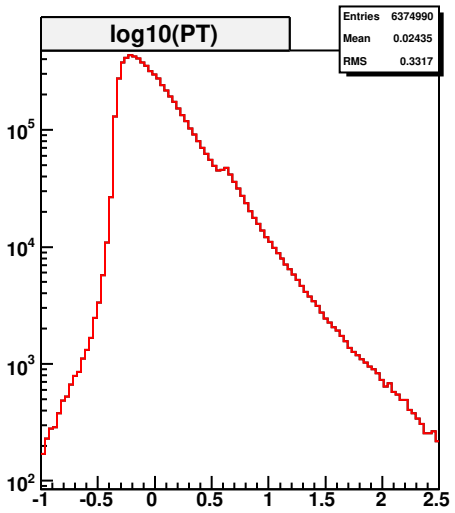
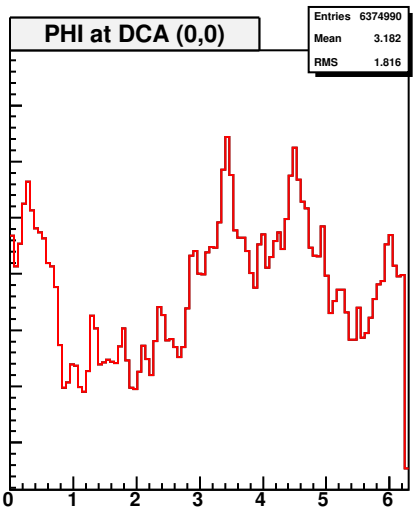
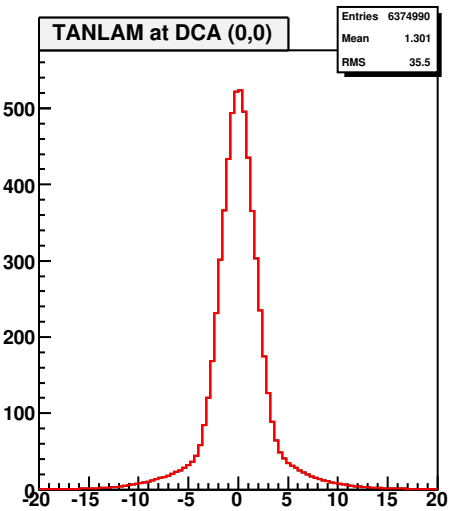
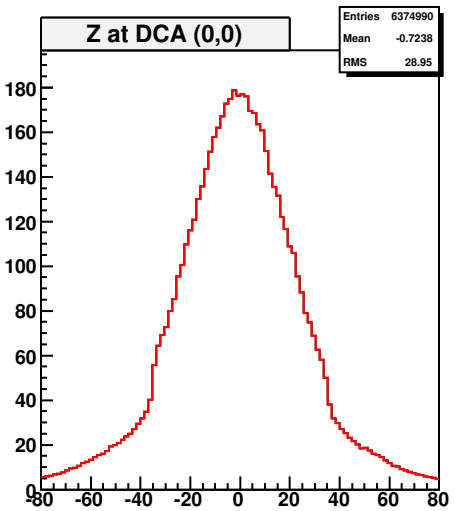

NTRKS
Entries 142104
Mean 44.86
RMS 41.06

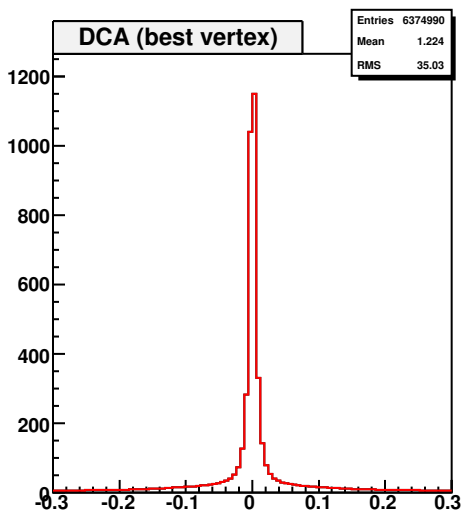

Chisq prob
Entries 6374990
Mean 0.2191
RMS 0.3074

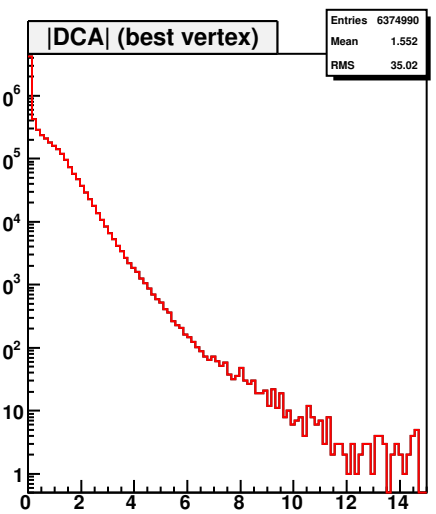

log10(PT)
Entries 6374990
Mean 0.02435
RMS 0.3317

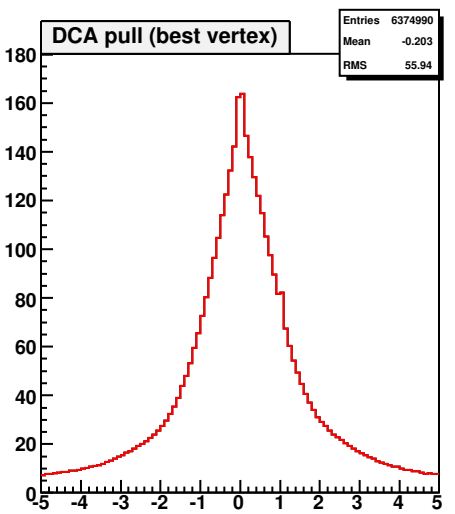

PHI at DCA (0,0)
Entries 6374990
Mean 3.182
RMS 1.816


TANLAM at DCA (0,0)
Entries 6374990
Mean 1.301
RMS 35.5

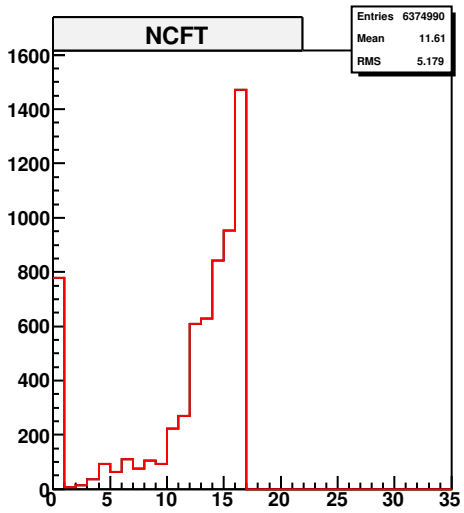

Z at DCA (0,0)
Entries 6374990
Mean -0.7238
RMS 28.95

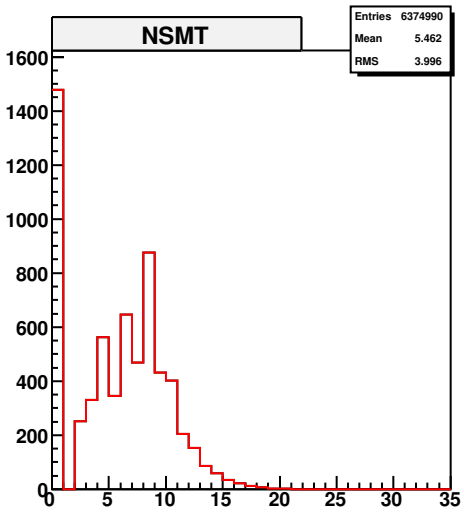

DCA (best vertex)
Entries 6374990
Mean 1.224
RMS 35.03

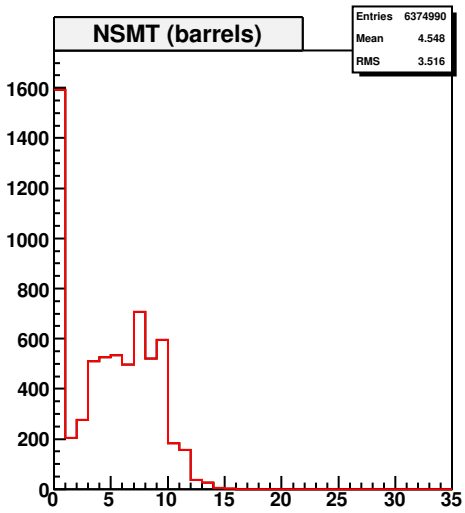

|DCA| (best vertex)
Entries 6374990
Mean 1.552
RMS 35.02

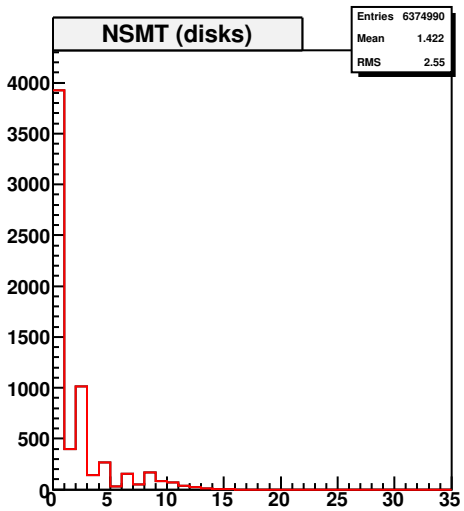

DCA pull (best vertex)
Entries 6374990
Mean -0.203
RMS 55.94

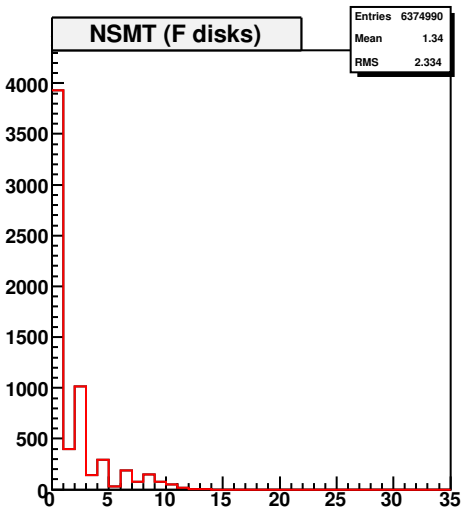
Tracks (All)

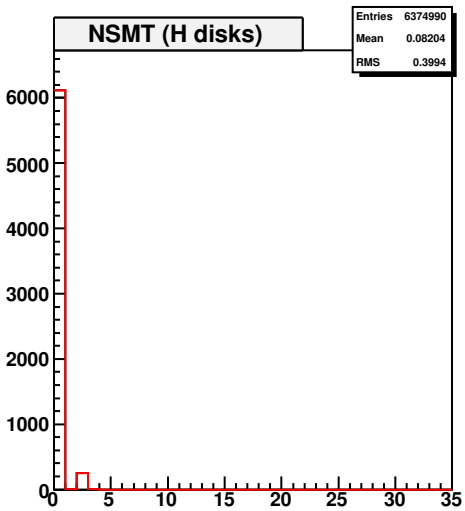


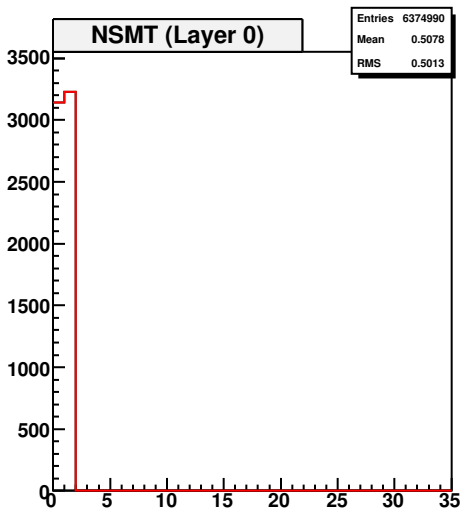




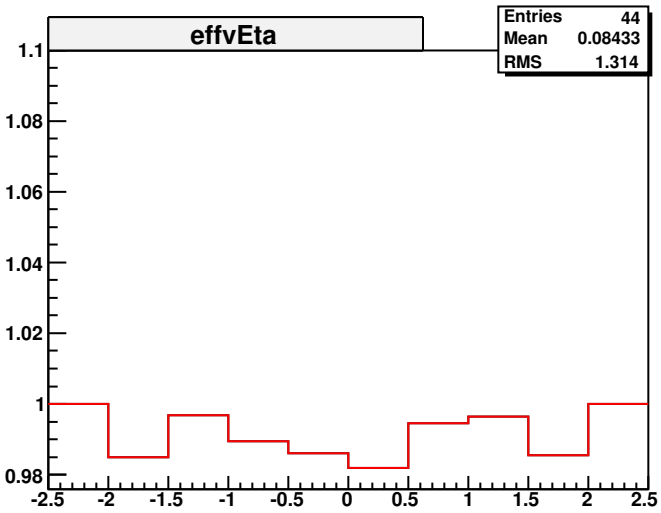


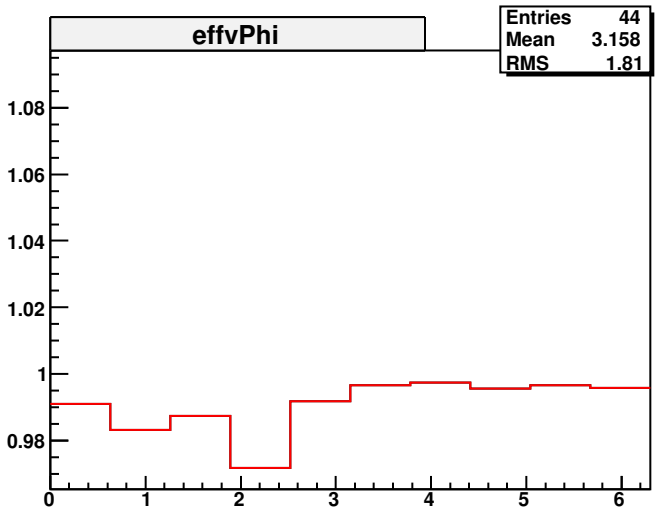


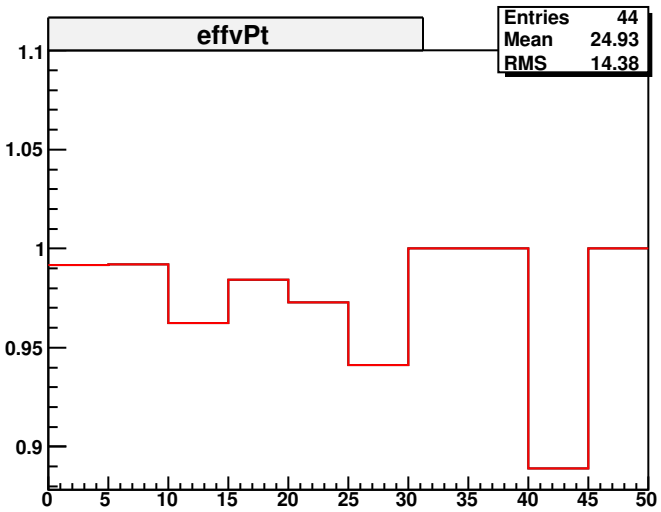


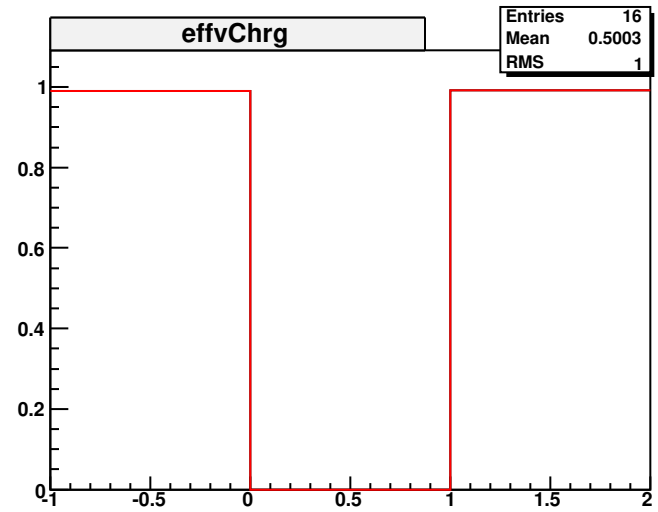


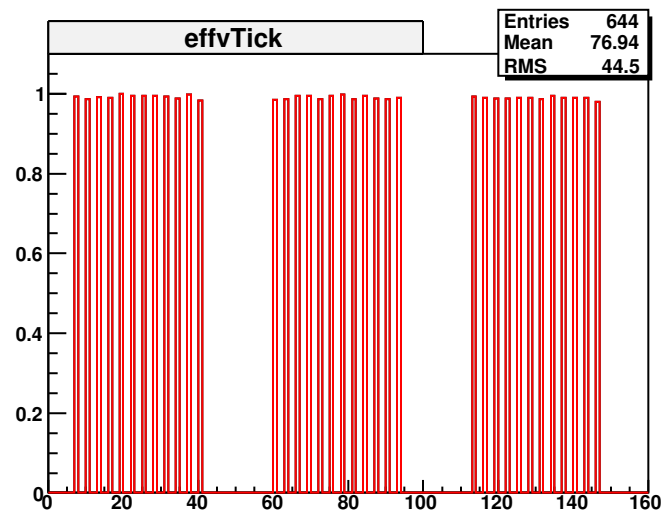
Track Hits (All)

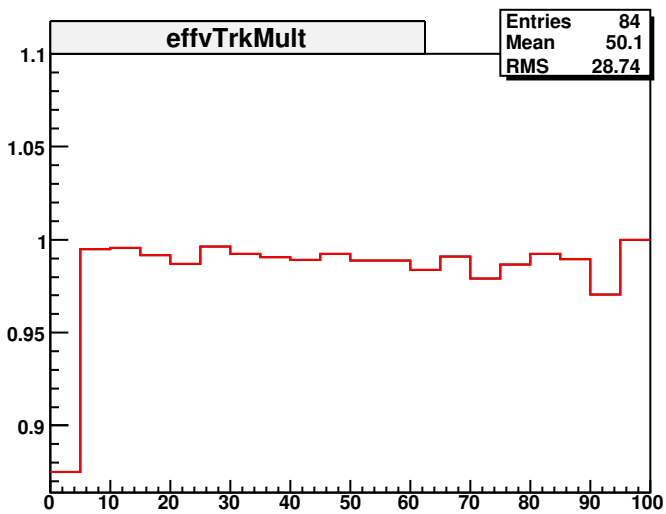




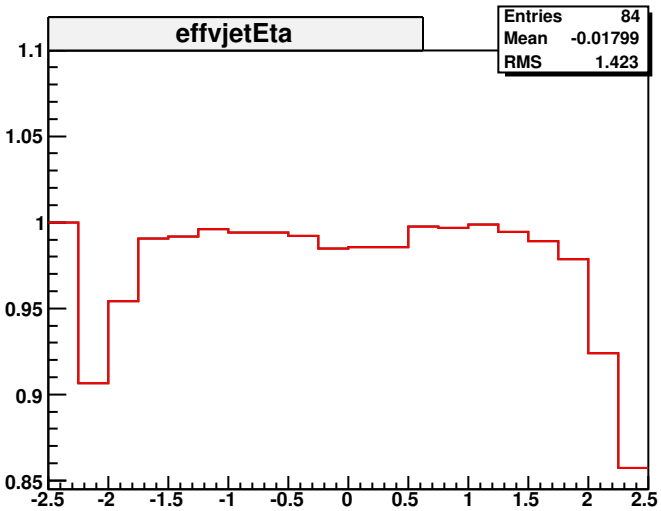


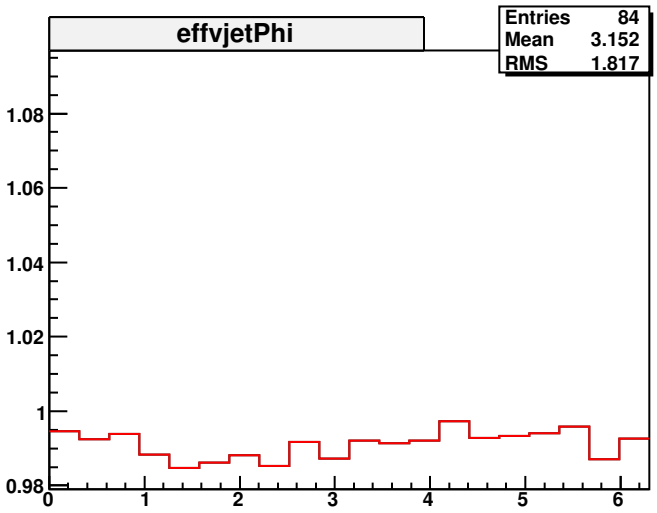


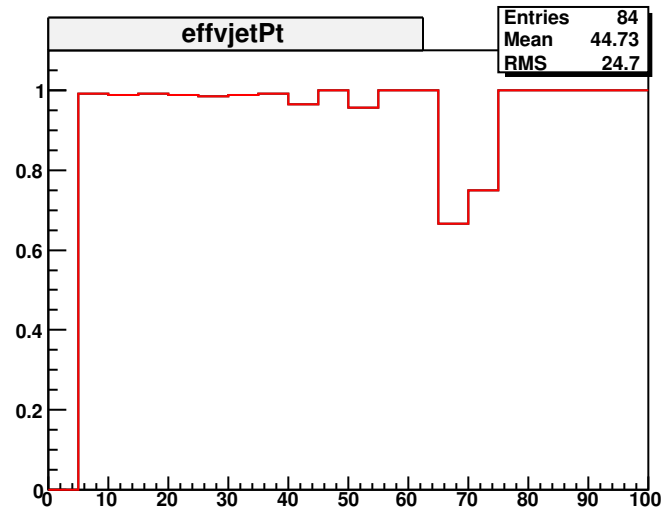




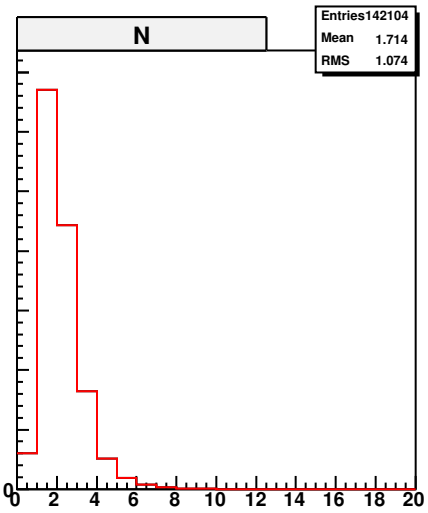
Tracking (Efficiency-Isolated)

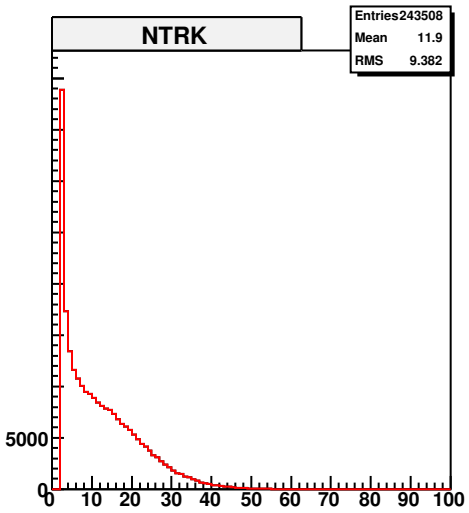


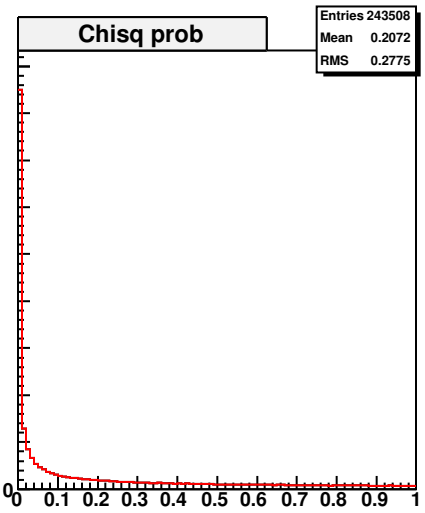


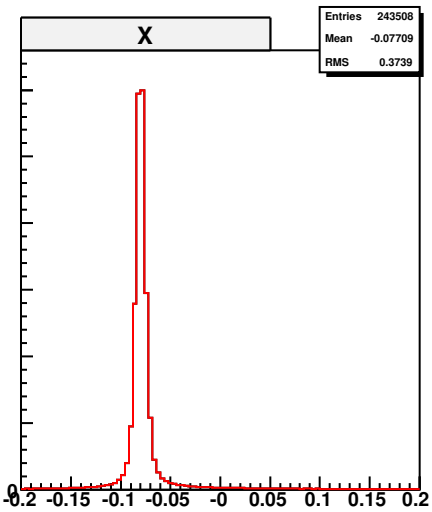


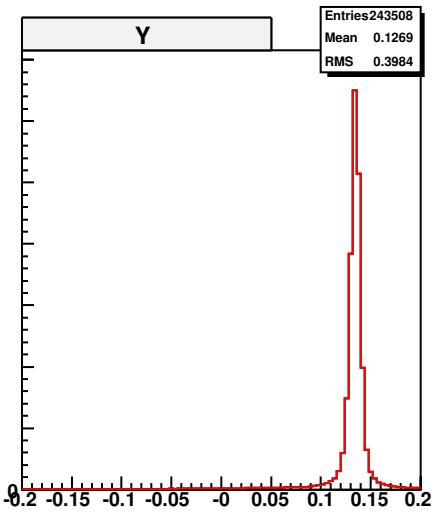
Tracking (Efficiency-InJets)

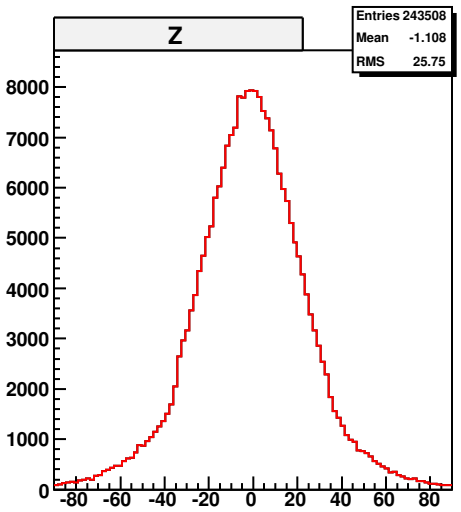




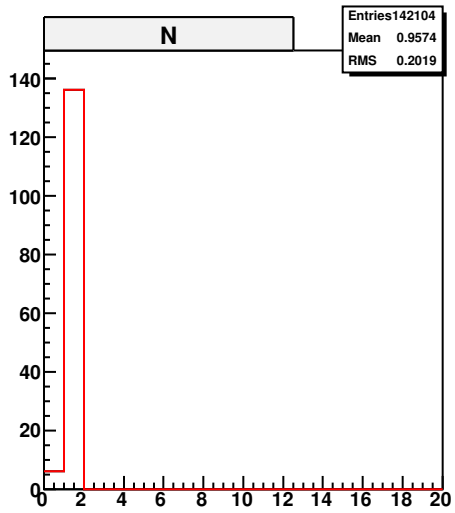


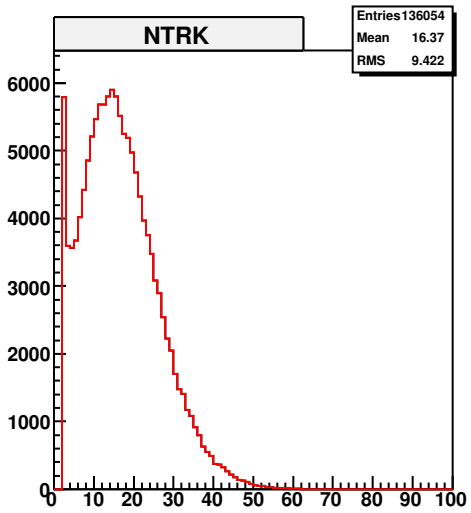


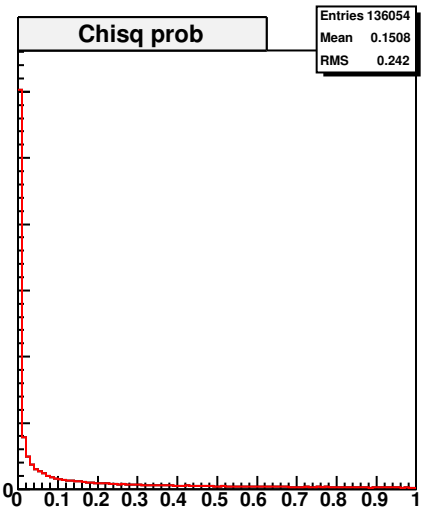


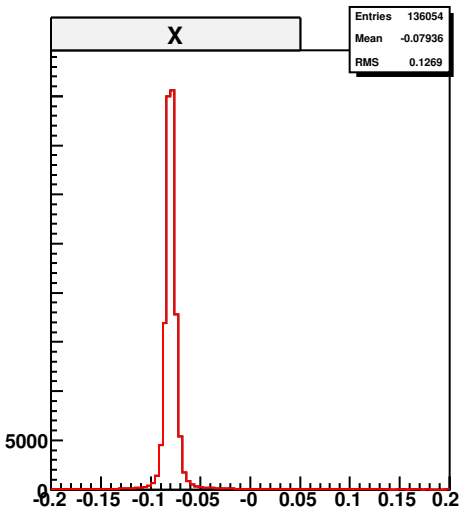


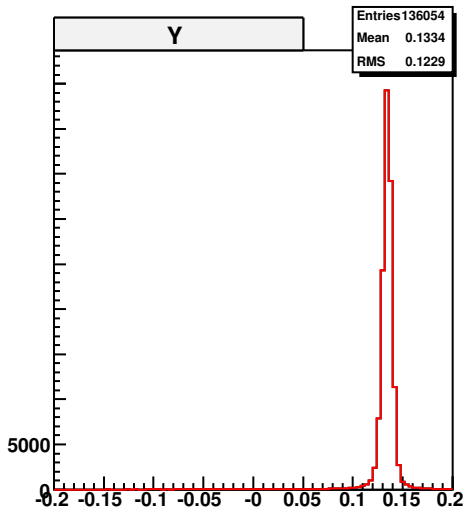
Vertices (Primary - all candidates)

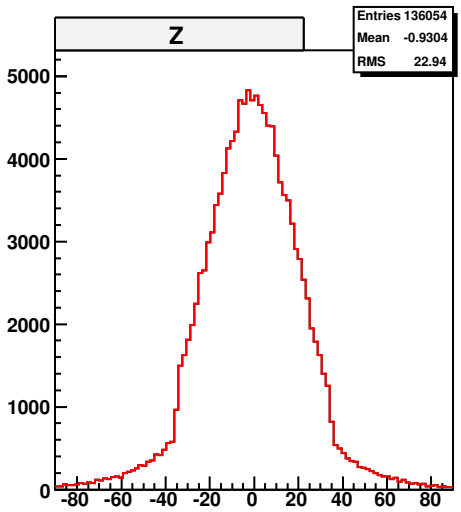




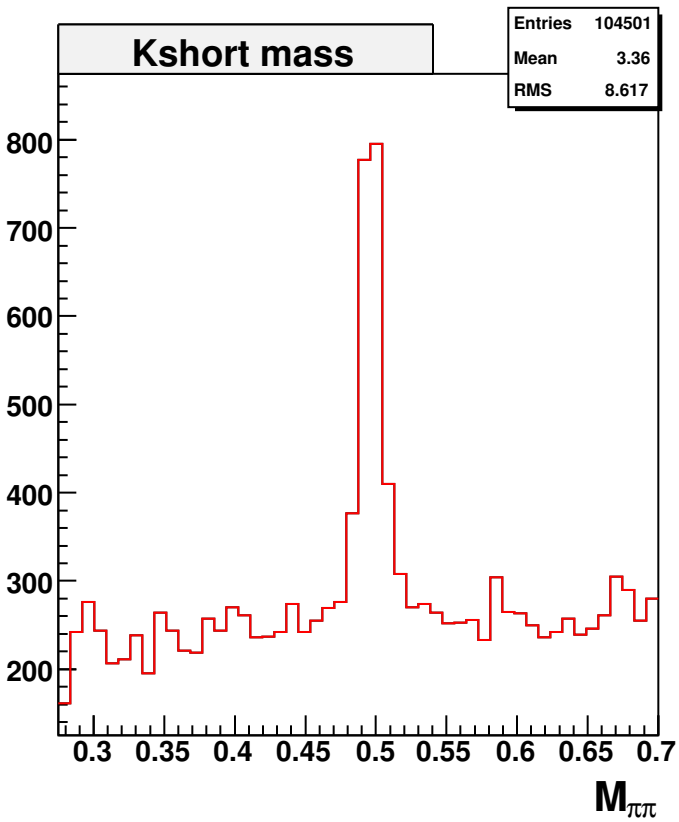


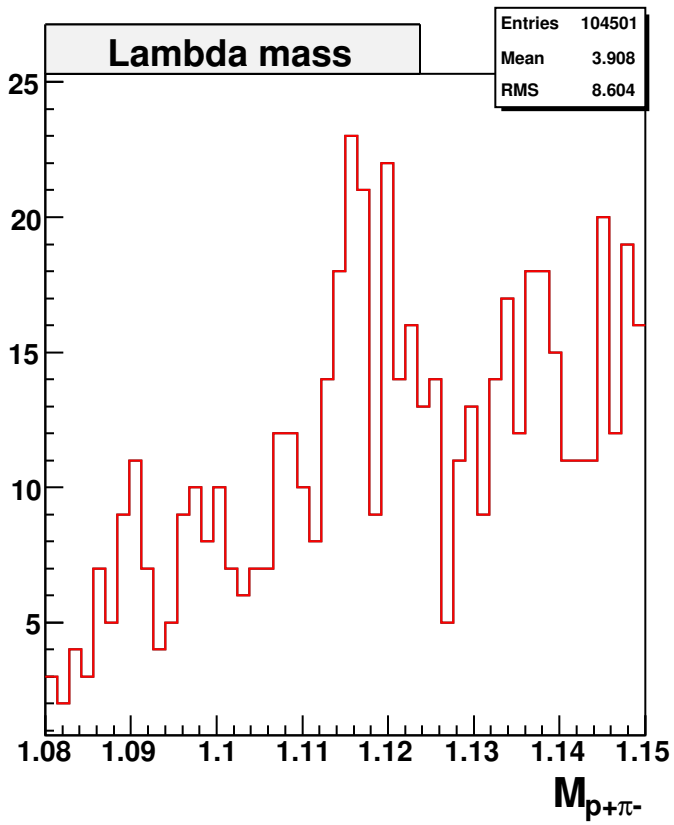


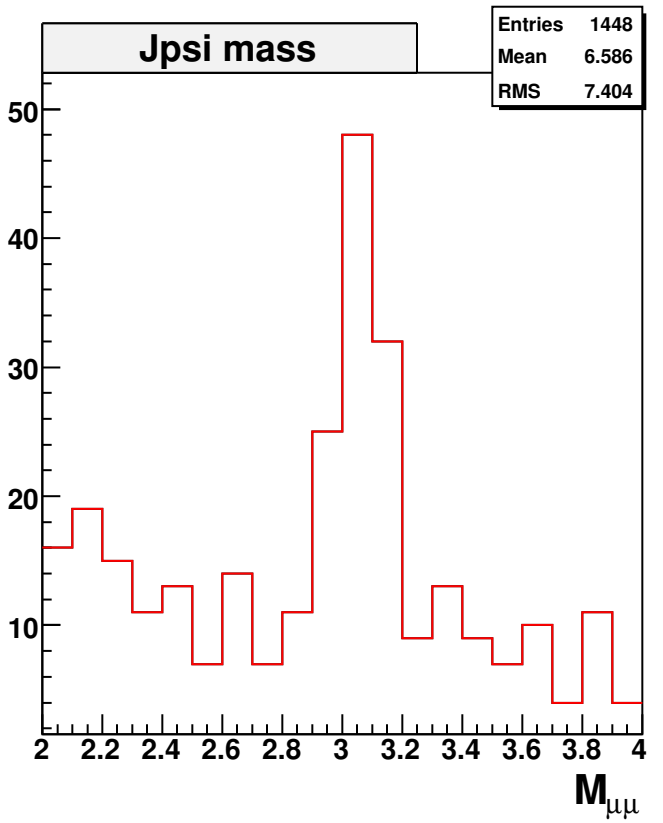


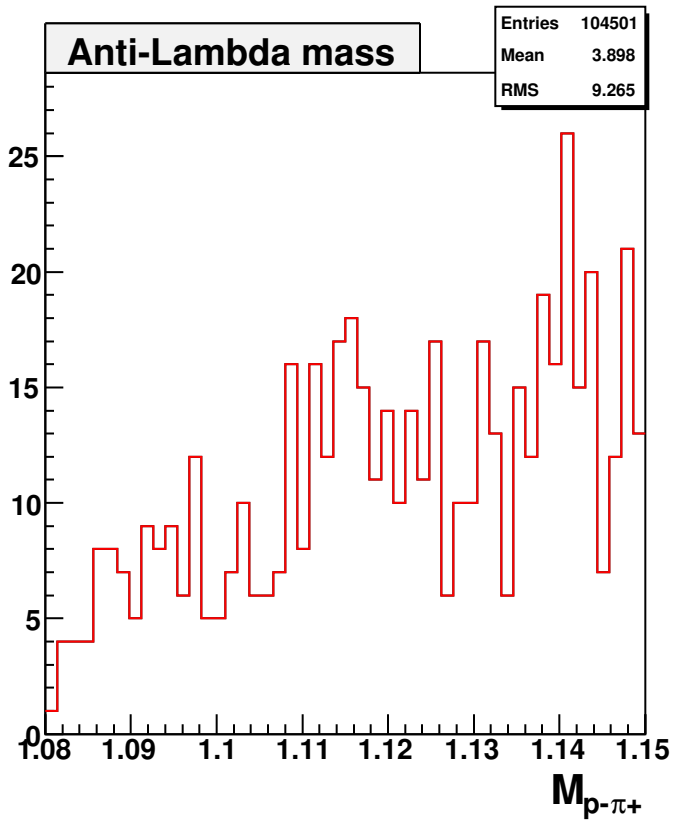


Vertices (Primary - best)

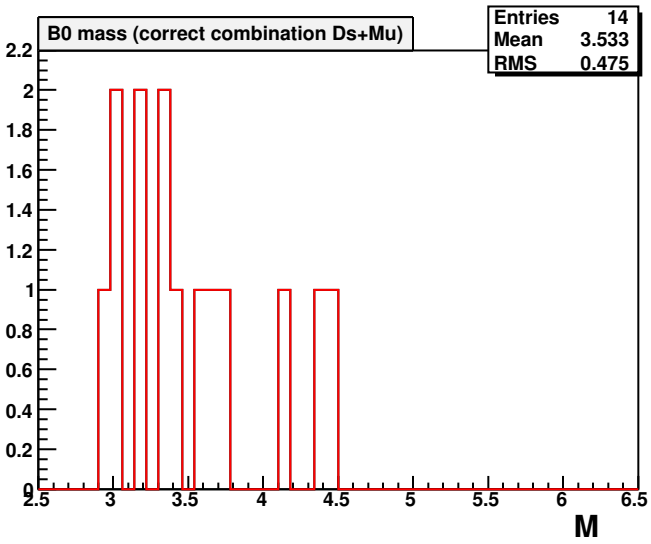

Kshort mass
Entries 104501
Mean 3.36
RMS 8.617
800
700
600
500
400
300
200
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

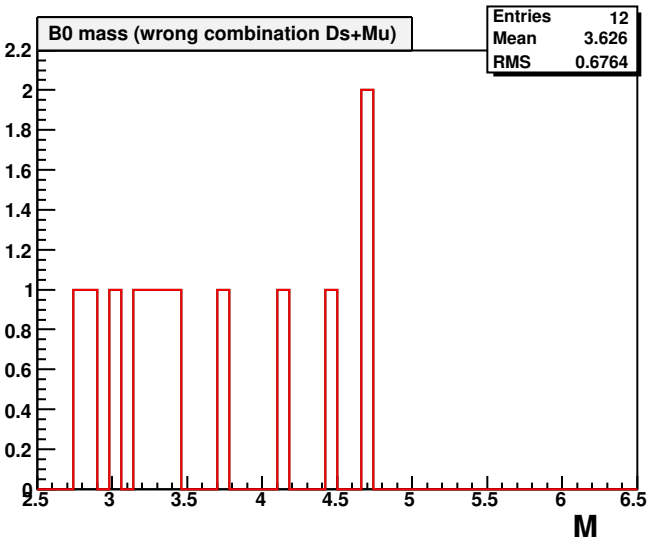

Lambda mass
Entries 104501
Mean 3.908
RMS 8.604
25
20
15
10
5
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

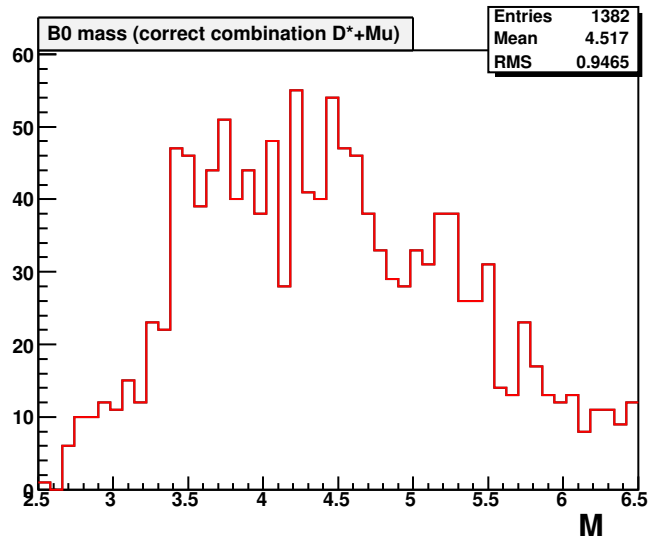

Jpsi mass
Entries 1448
Mean 6.586
RMS 7.404
50
40
30
20
10
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

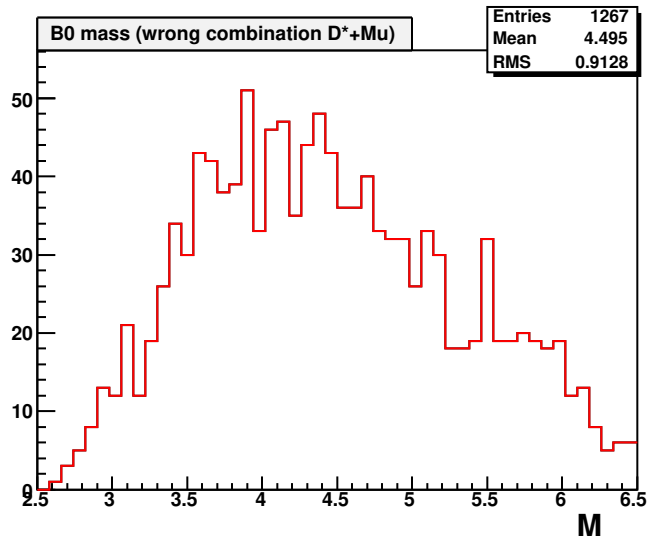

Anti-Lambda mass
Entries 104501
Mean 3.898
RMS 9.265
25
20
15
10
5
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

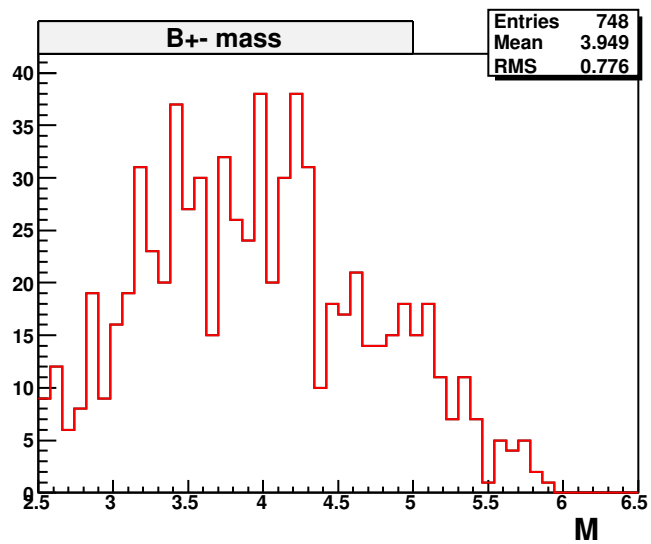
V0 (All)



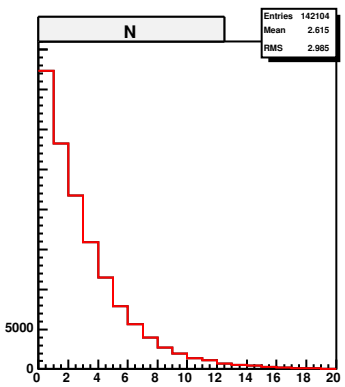


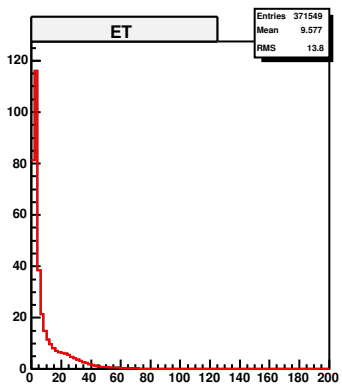


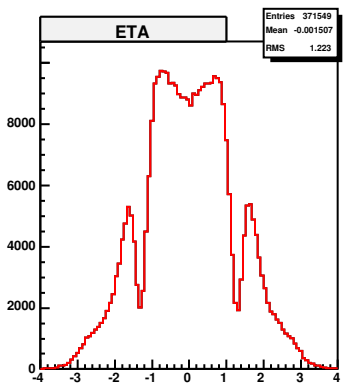


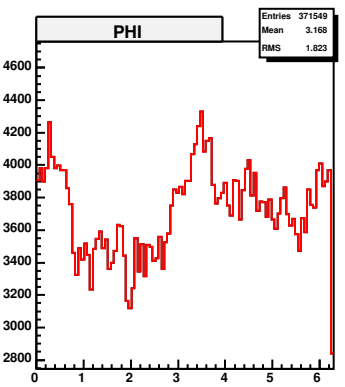


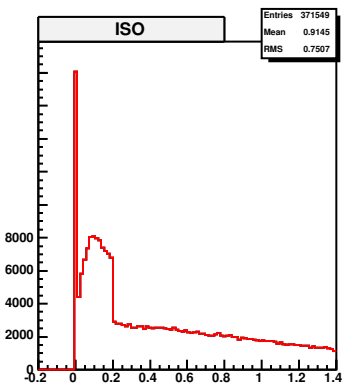
V0(B mesons) (All)

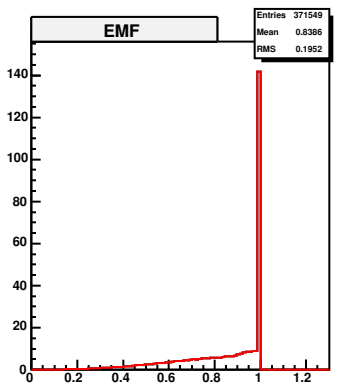


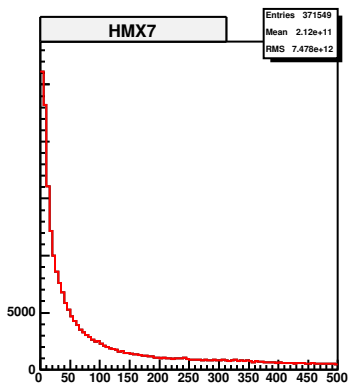


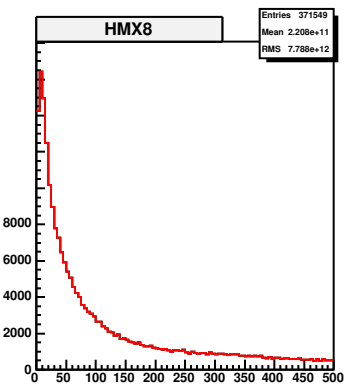


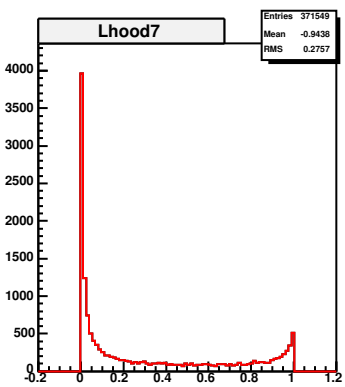


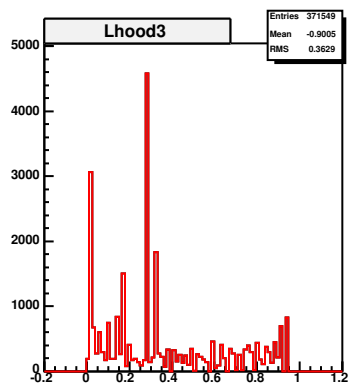


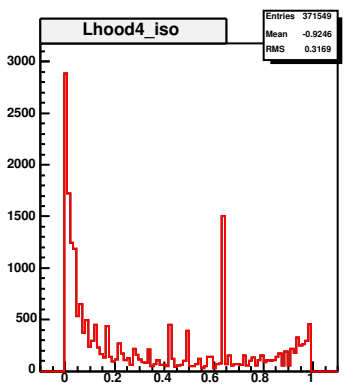


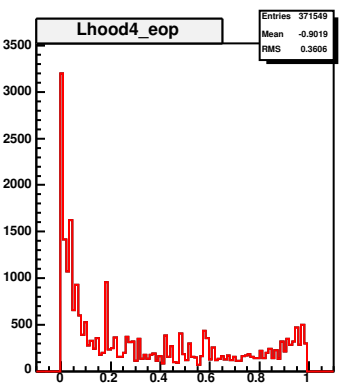


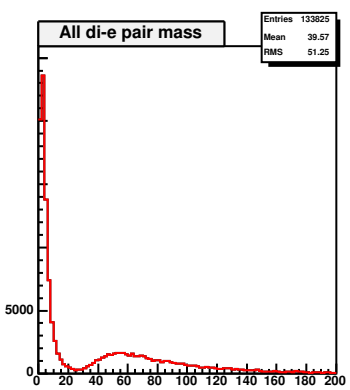


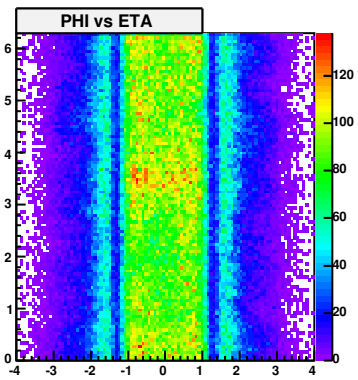


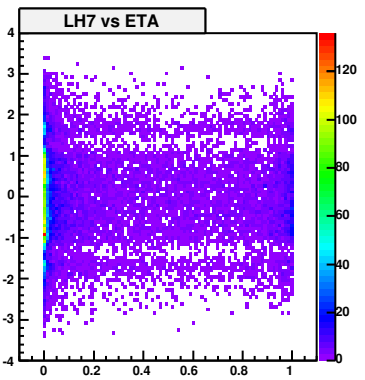


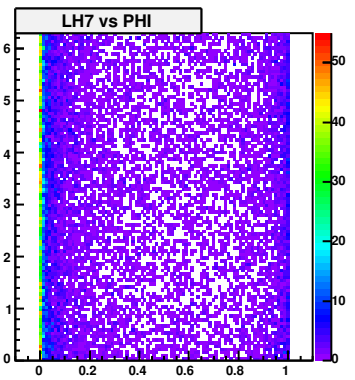




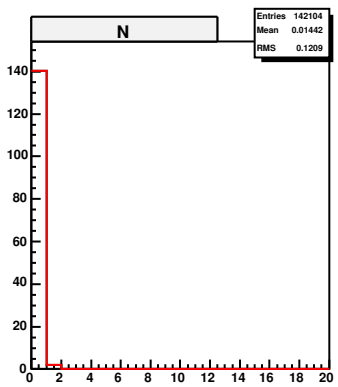


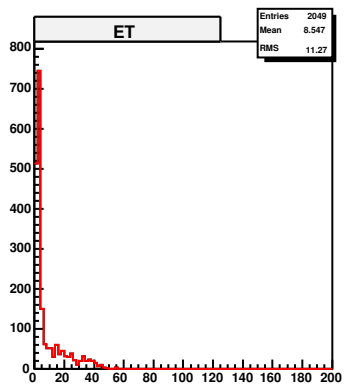


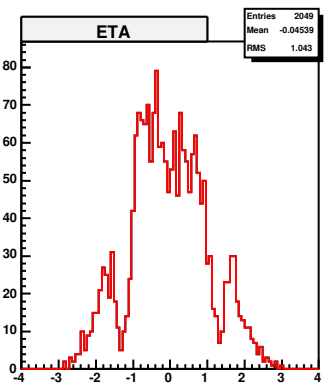


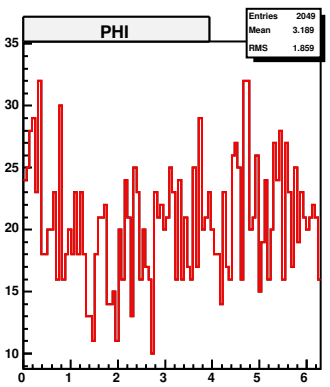


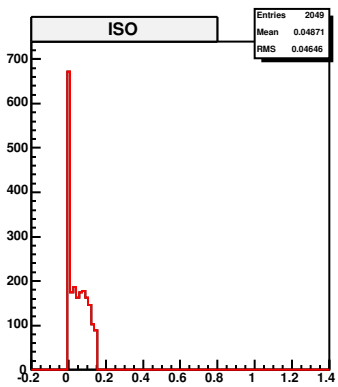
Electrons (SCONE All)

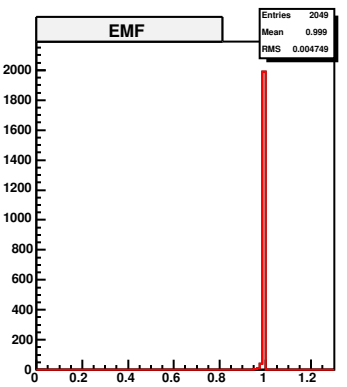


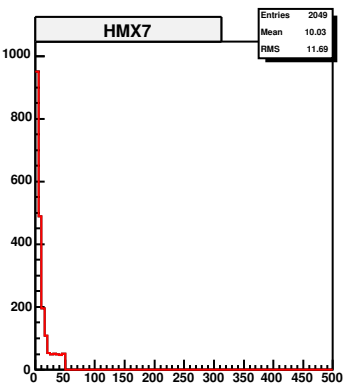


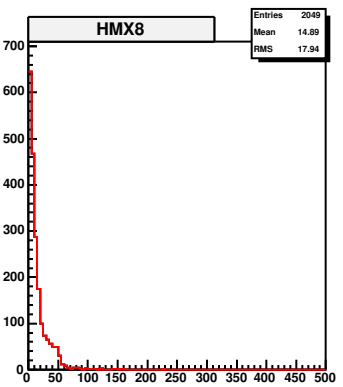


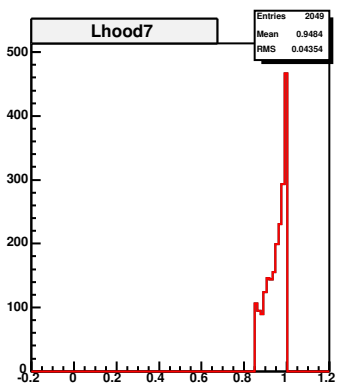


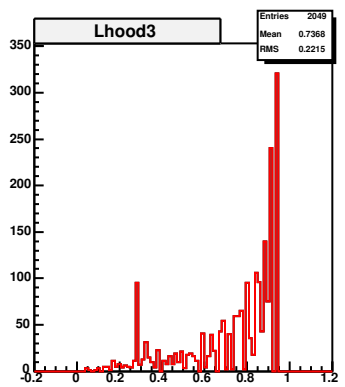


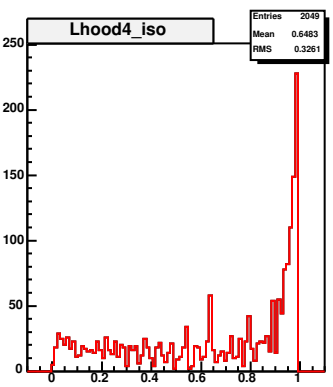


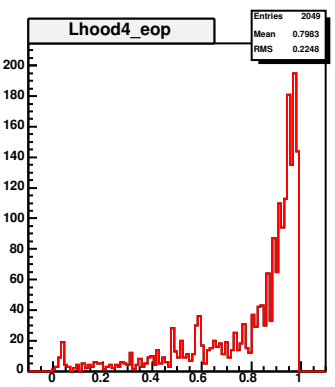


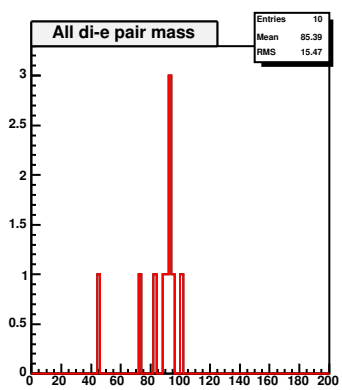


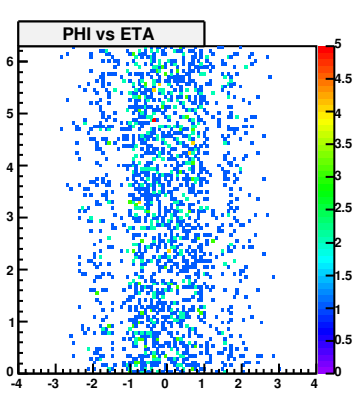


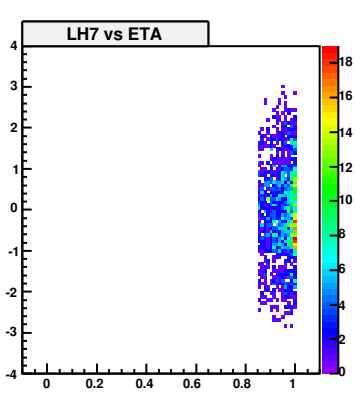


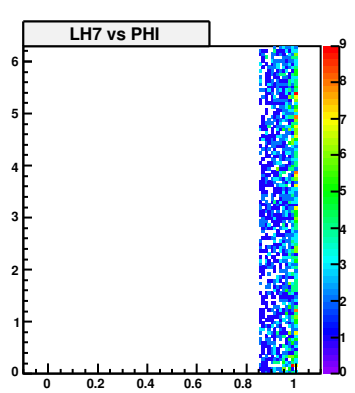




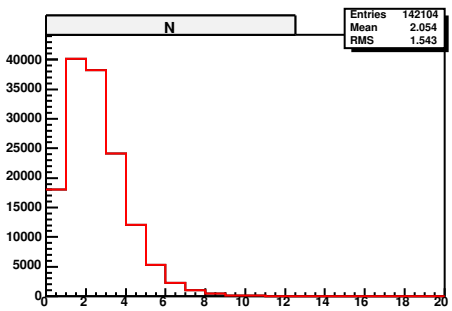


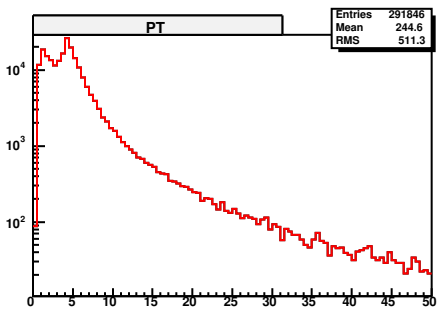


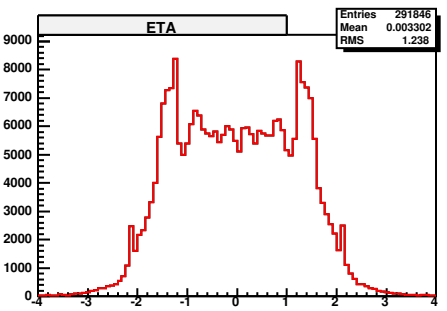


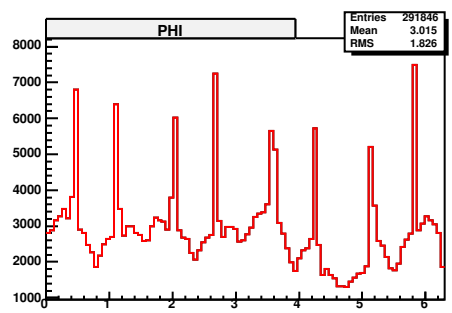


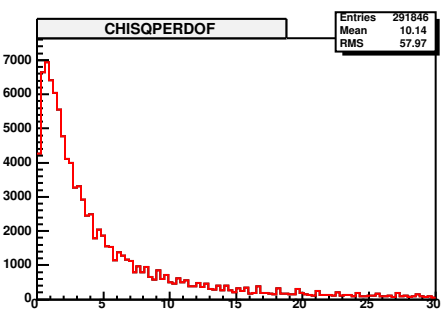
Electrons (SCONE Tight)

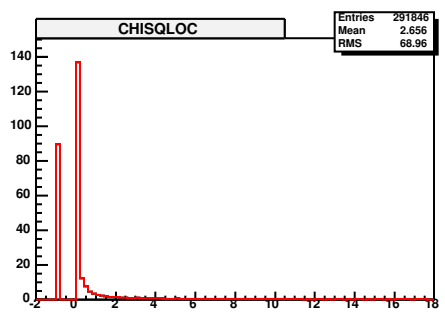

N
Entries 142104
Mean 2.054
RMS 1.543

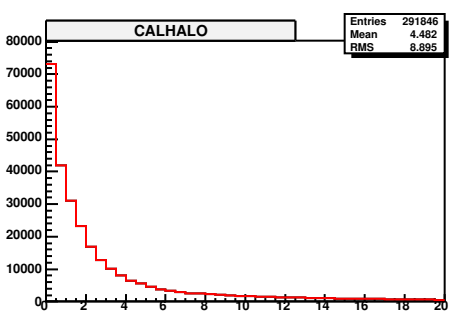

PT
Entries 291846
Mean 244.6
RMS 511.3

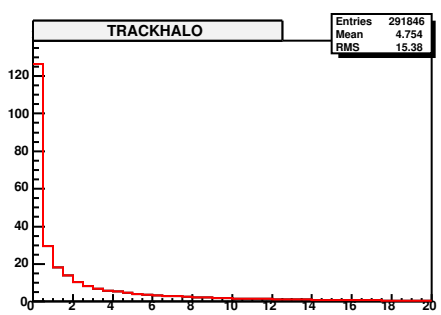

ETA
Entries 291846
Mean 0.003302
RMS 1.238

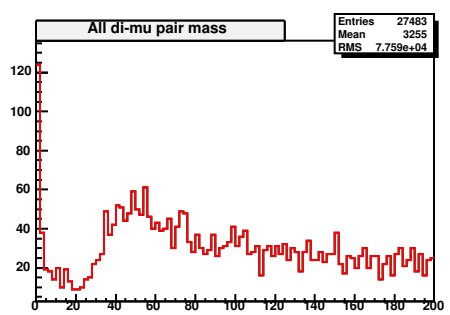

PHI
Entries 291846
Mean 3.015
RMS 1.826

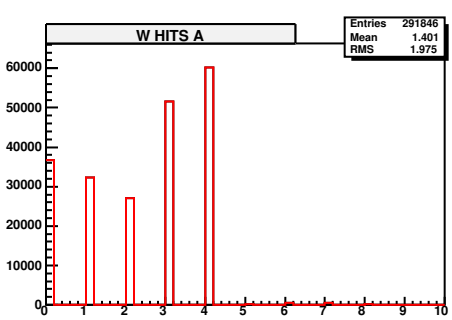

CHISQPERDOF
Entries 291846
Mean 10.14
RMS 57.97

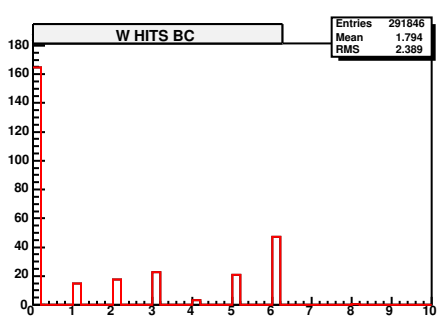

CHISQLOC
Entries 291846
Mean 2.656
RMS 68.96

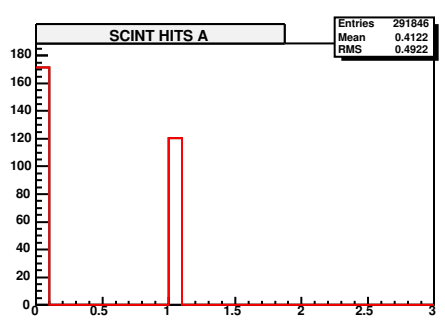

CALHALO
Entries 291846
Mean 4.482
RMS 8.895

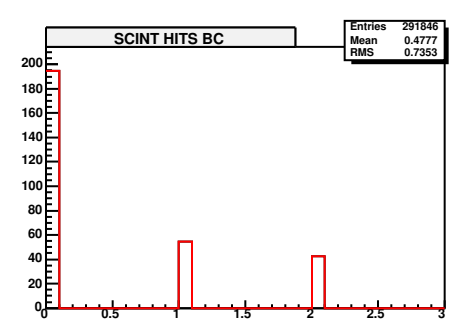

TRACKHALO
Entries 291846
Mean 4.754
RMS 15.38


All di-mu pair mass
Entries 27483
Mean 3255
RMS 7.759e+04

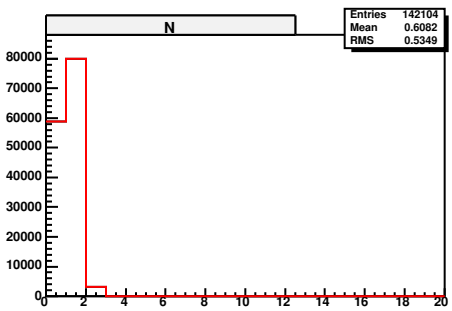

W HITS A
Entries 291846
Mean 1.401
RMS 1.975

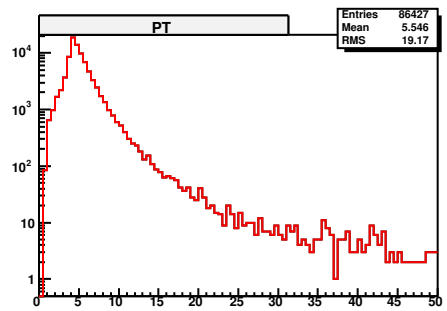

W HITS BC
Entries 291846
Mean 1.794
RMS 2.389

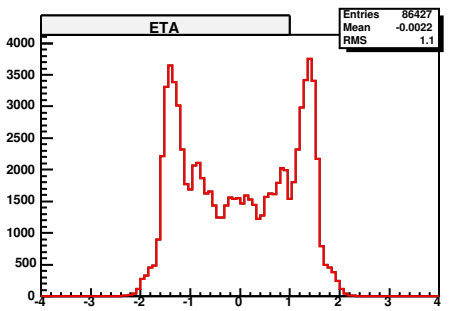

SCINT HITS A
Entries 291846
Mean 0.4122
RMS 0.4922

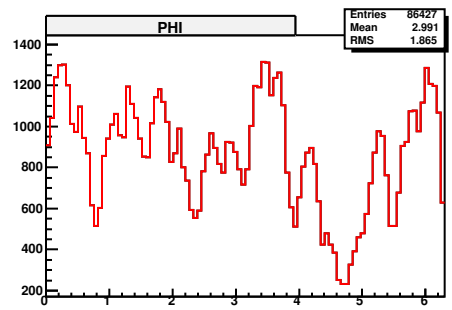

SCINT HITS BC
Entries 291846
Mean 0.4777
RMS 0.7353

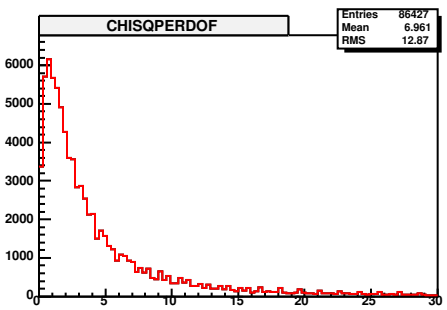
Muons (All)

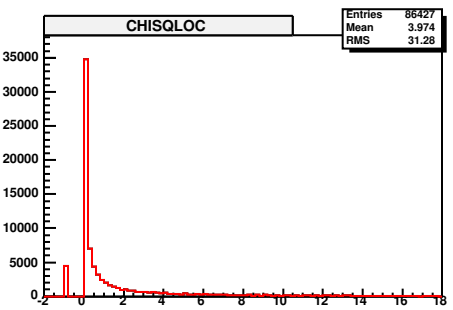


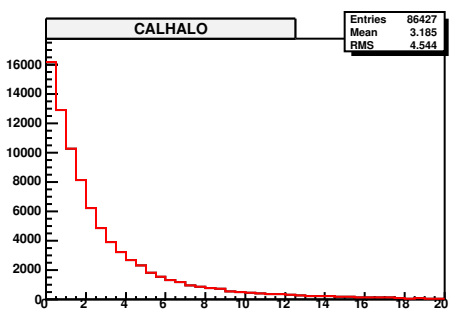


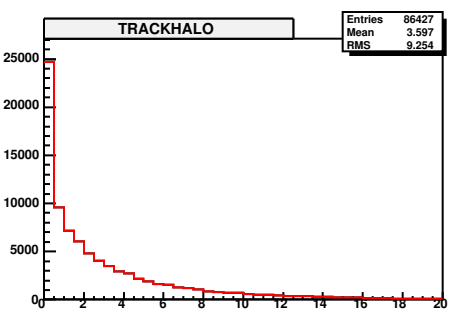


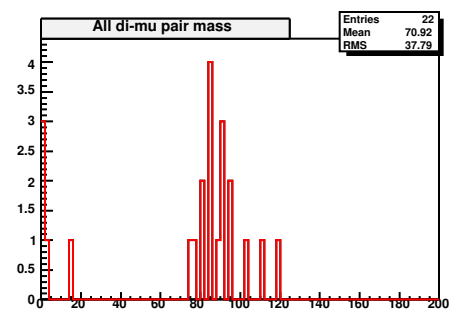


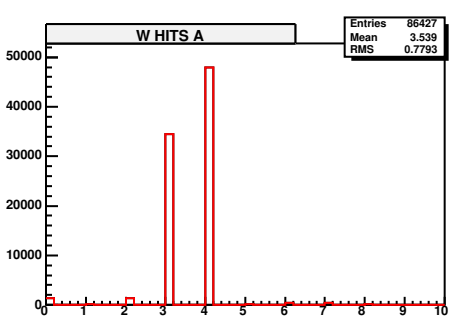


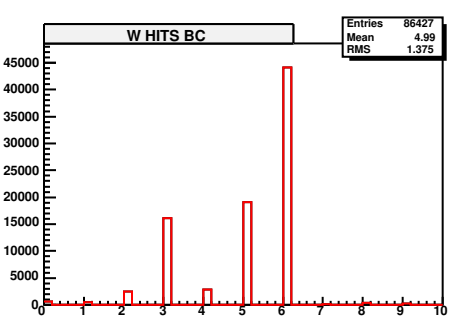


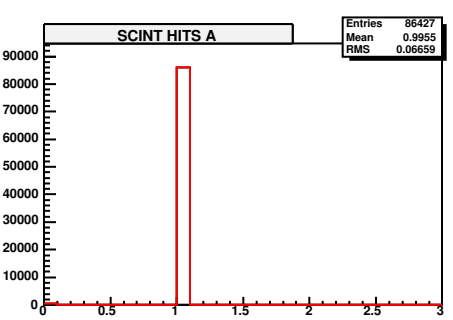


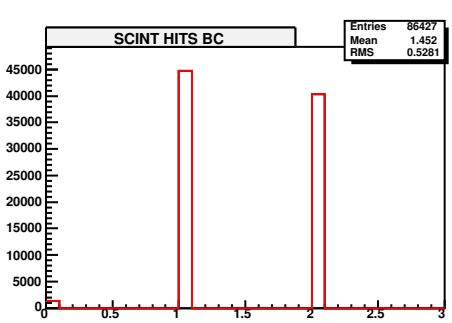




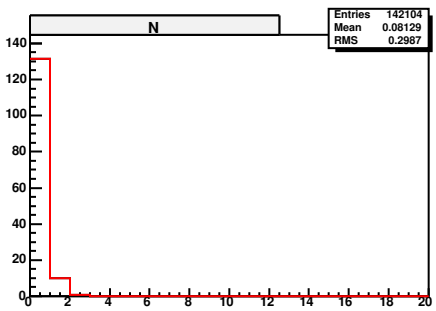


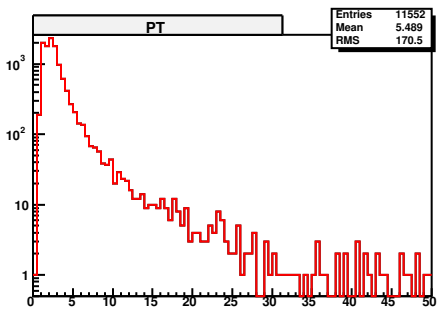


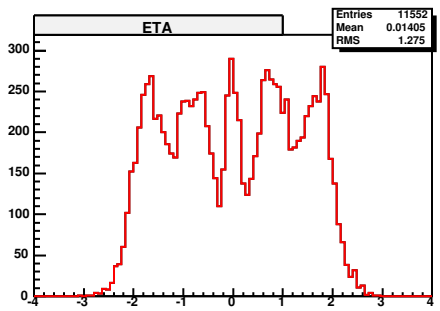


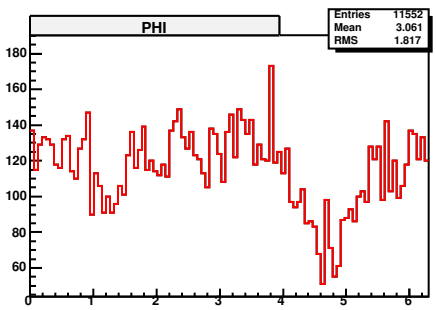


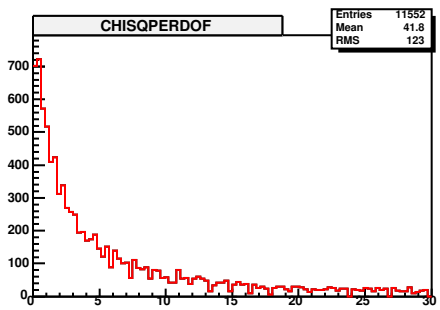
Muons (Matched)

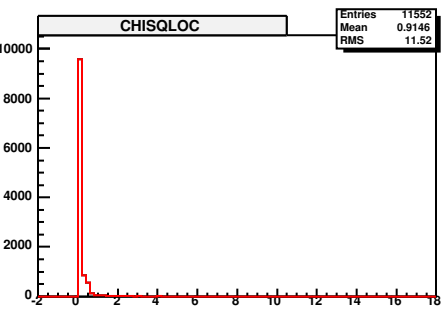

N
Entries 142104
Mean 0.08129
RMS 0.2987

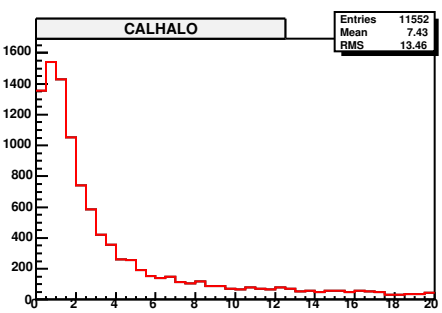

PT
Entries 11552
Mean 5.489
RMS 170.5

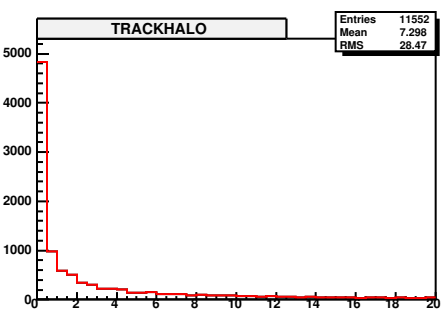

ETA
Entries 11552
Mean 0.01405
RMS 1.275

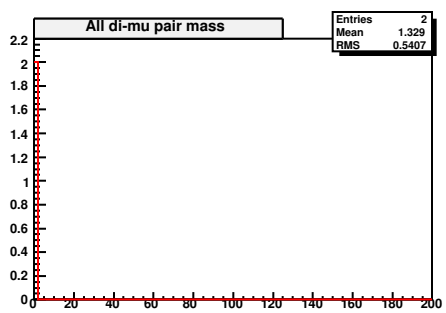

PHI
Entries 11552
Mean 3.061
RMS 1.817

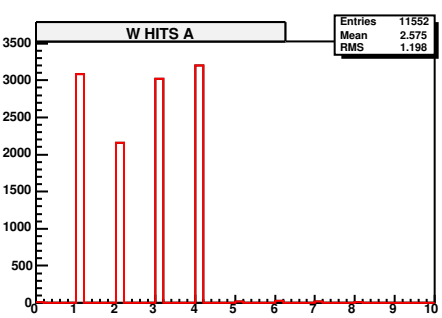

CHISQPERDOF
Entries 11552
Mean 41.8
RMS 123

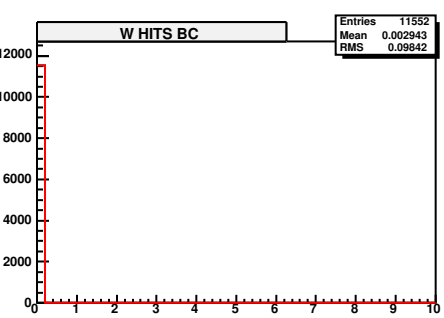

CHISQLOC
Entries 11552
Mean 0.9146
RMS 11.52

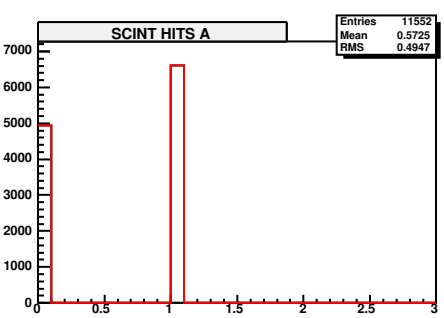

CALHALO
Entries 11552
Mean 7.43
RMS 13.46

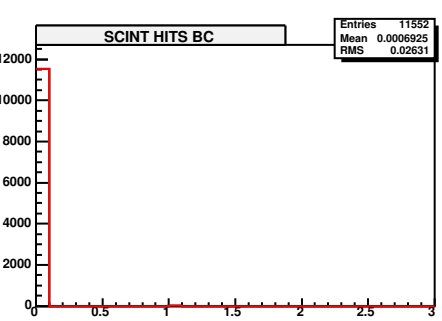

TRACKHALO
Entries 11552
Mean 7.298
RMS 28.47


All di-mu pair mass
Entries 2
Mean 1.329
RMS 0.5407

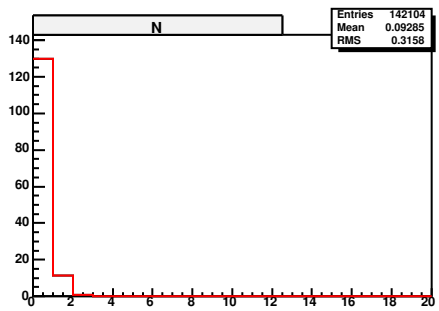

W HITS A
Entries 11552
Mean 2.575
RMS 1.198

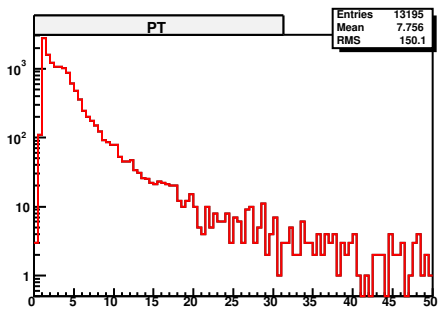

W HITS BC
Entries 11552
Mean 0.002943
RMS 0.09842

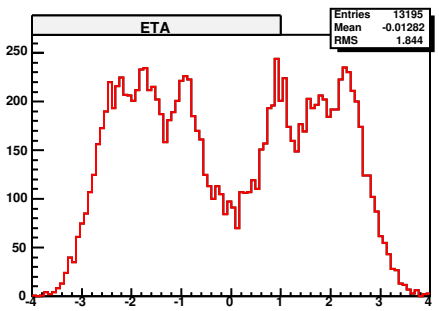

SCINT HITS A
Entries 11552
Mean 0.5725
RMS 0.4947

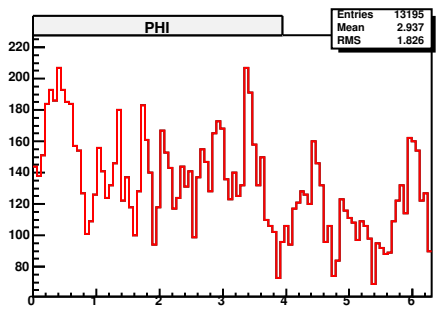

SCINT HITS BC
Entries 11552
Mean 0.0006925
RMS 0.02631

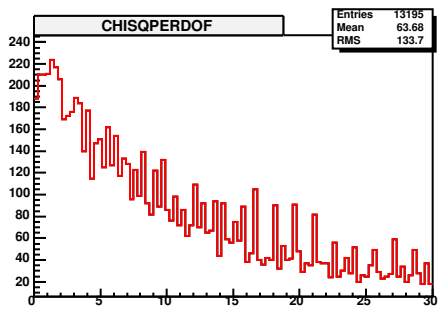
Muons (Astub)

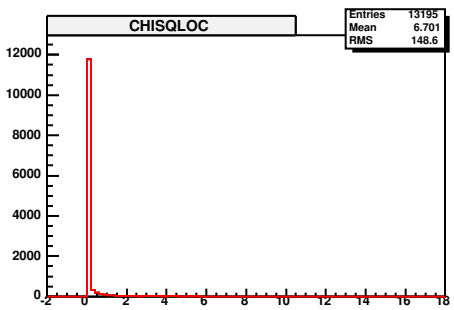


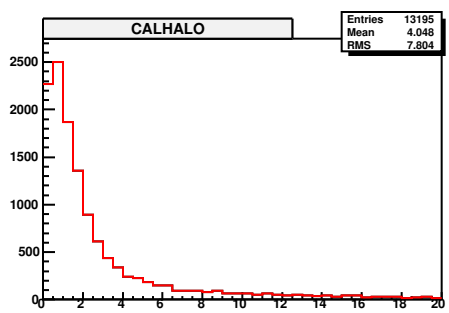


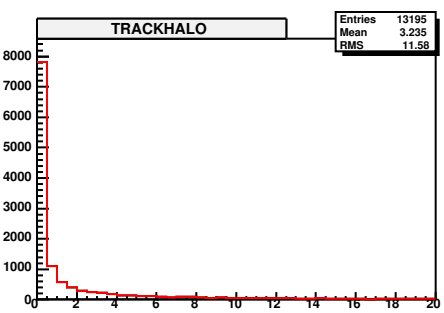


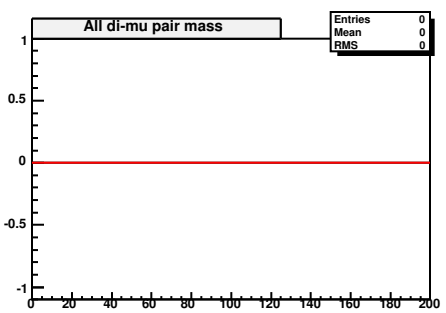


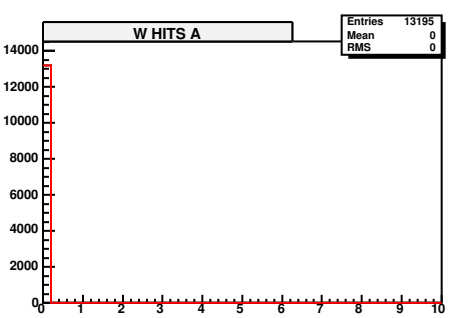


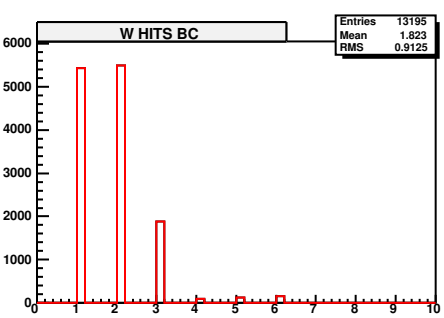


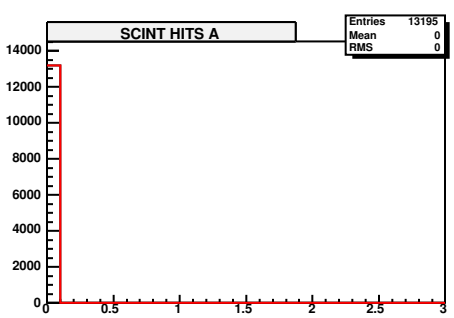


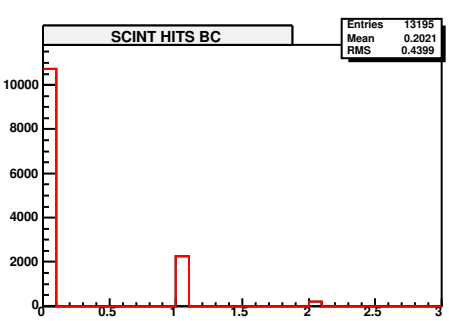




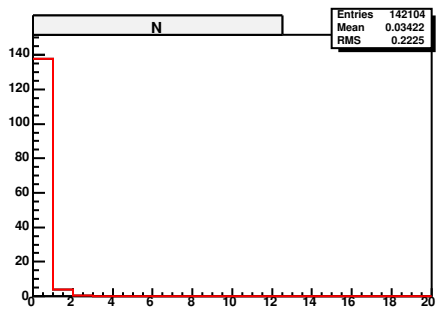


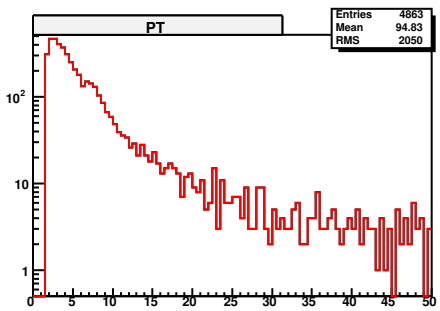


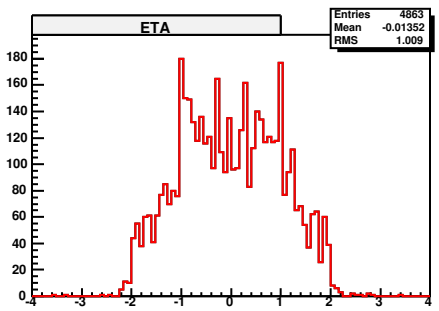


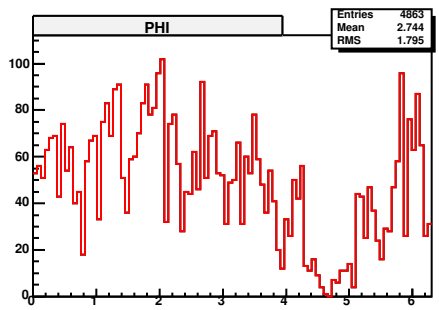


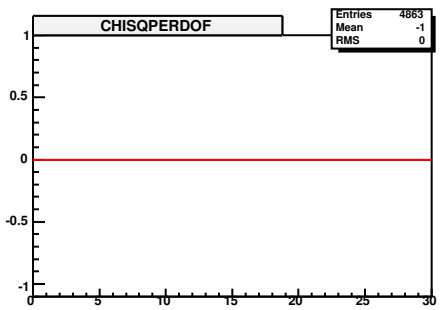
Muons (BCstub)

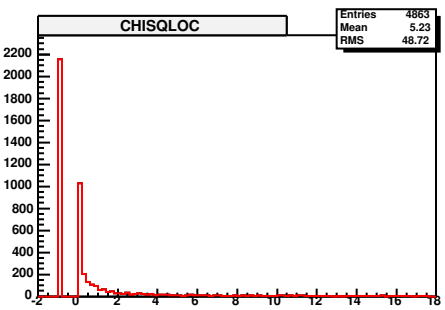


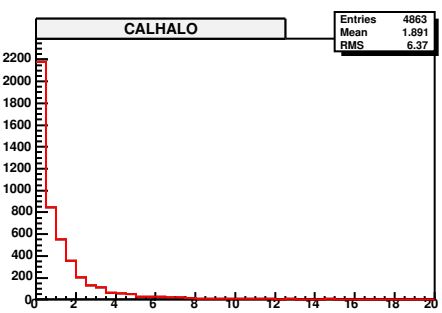


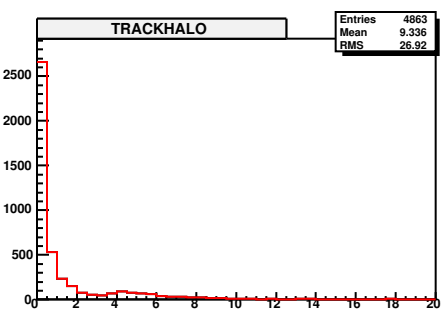


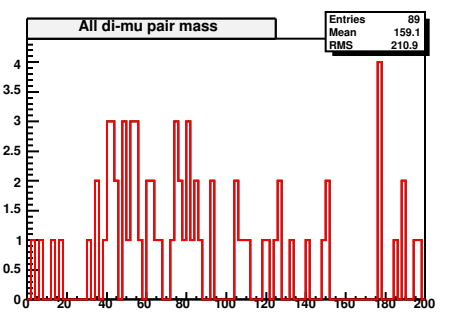


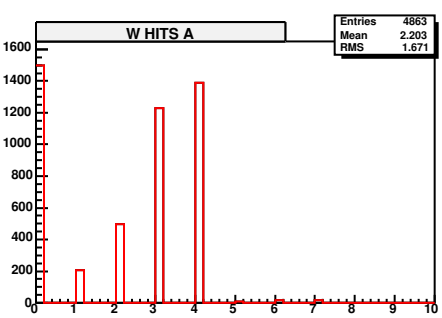


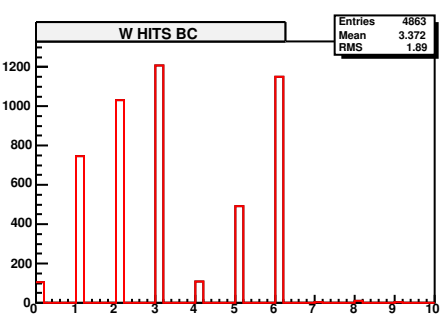


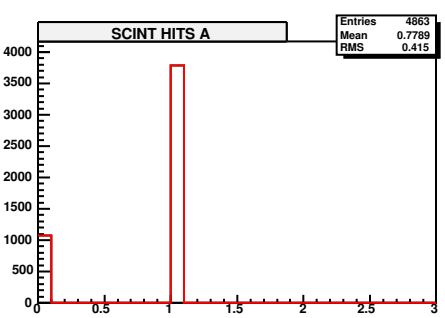


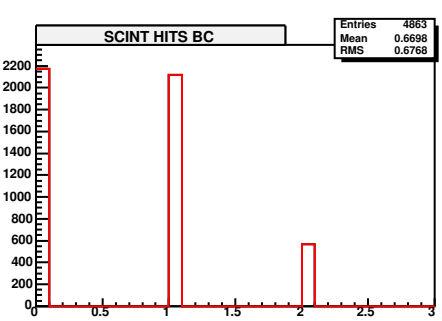




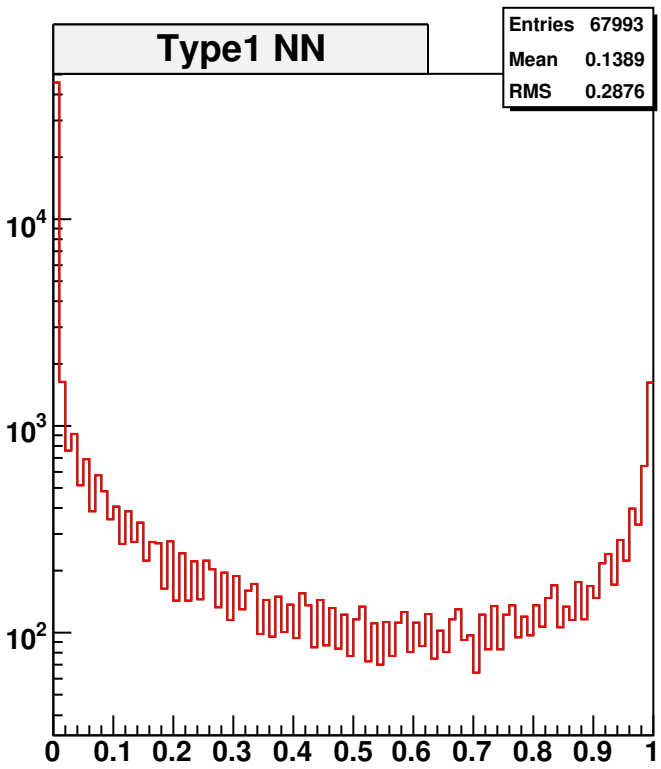


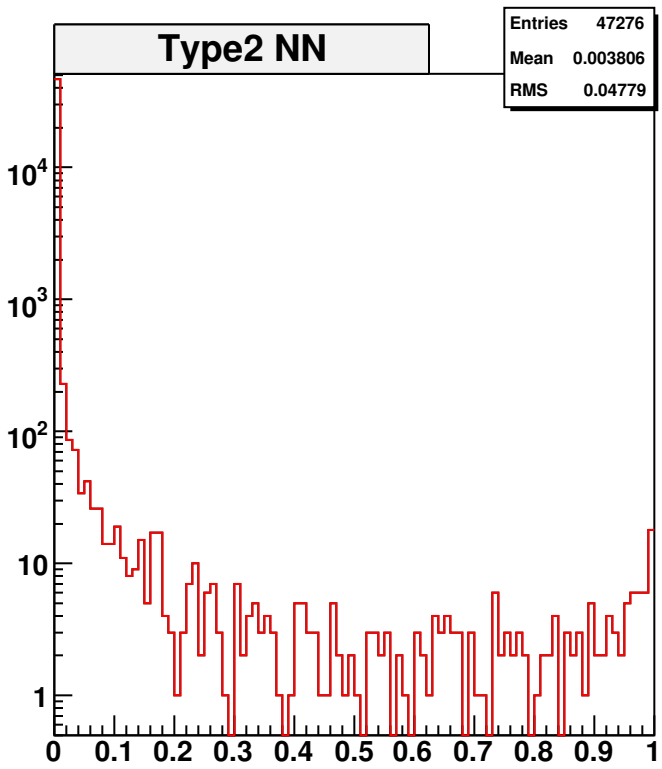


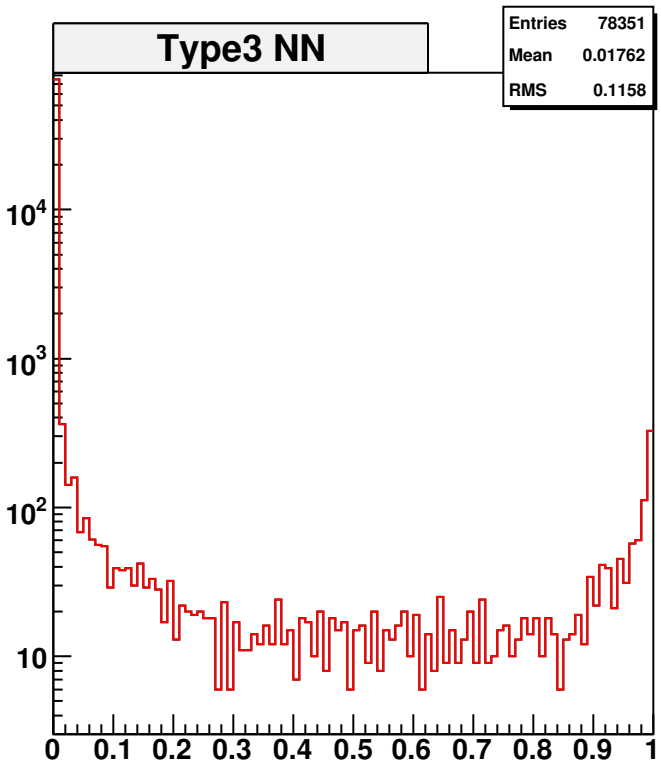


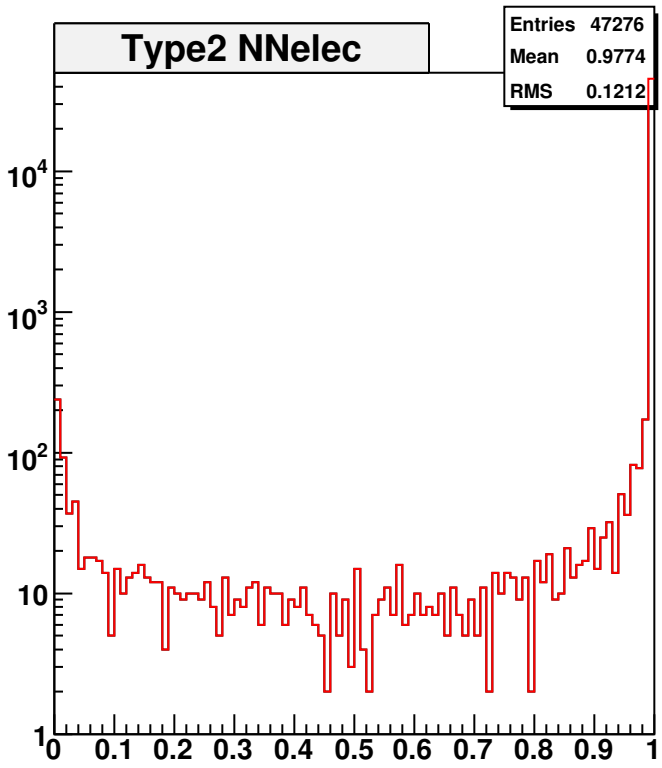


Muons (Unmatched)

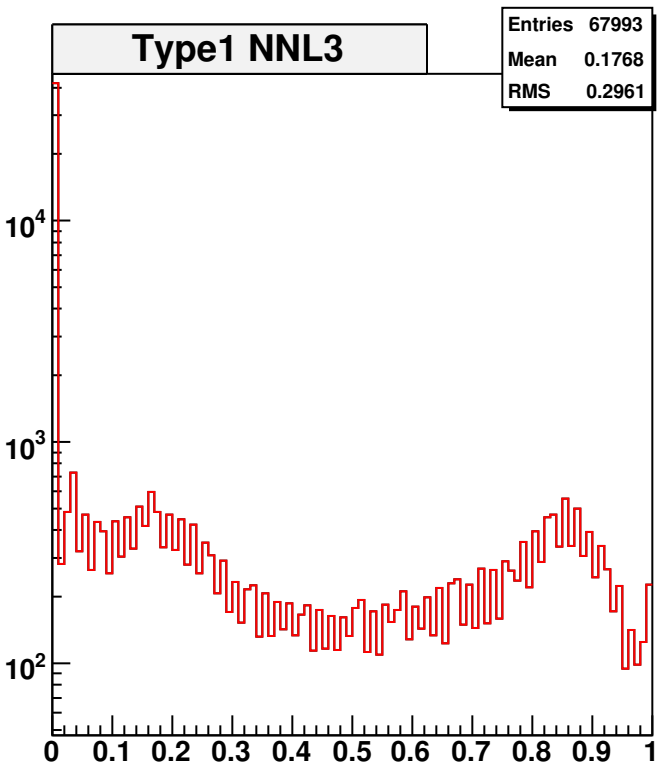


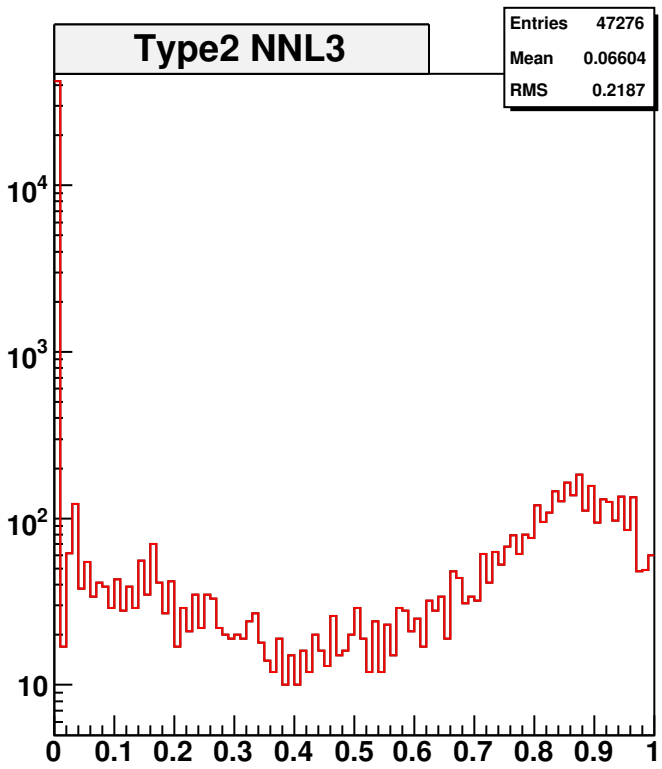


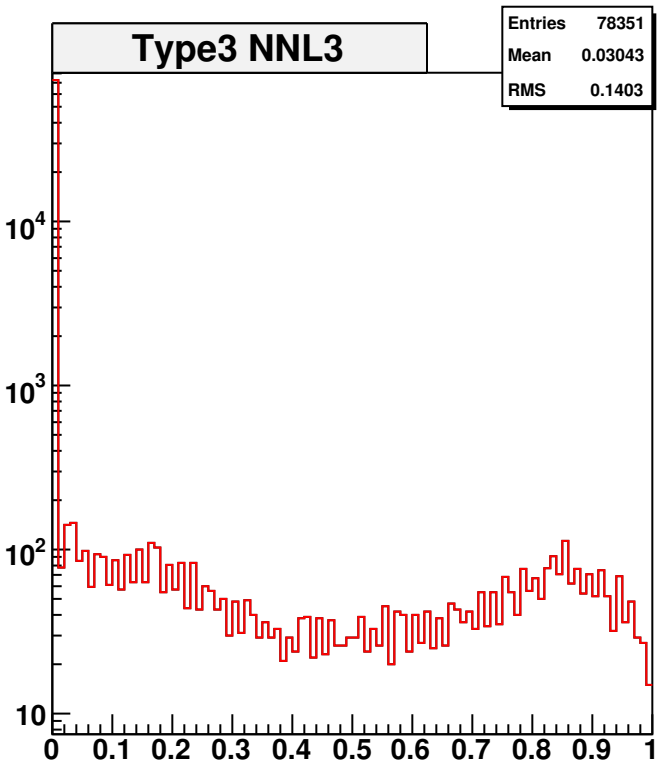


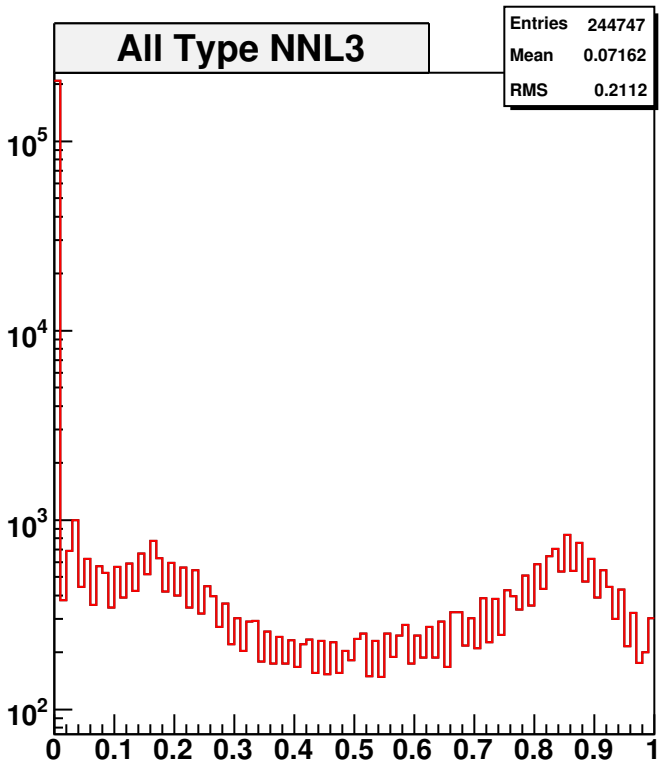


Taus NN (TAU All)

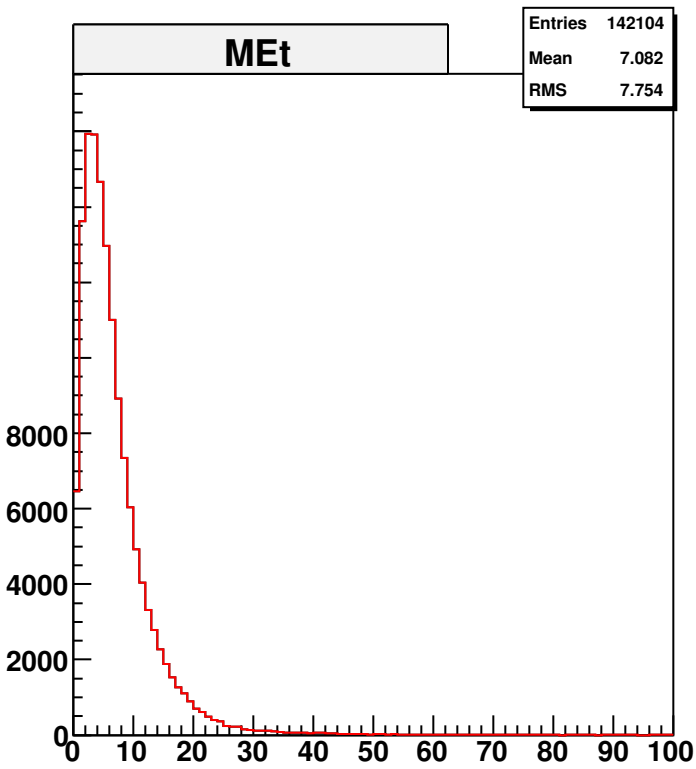


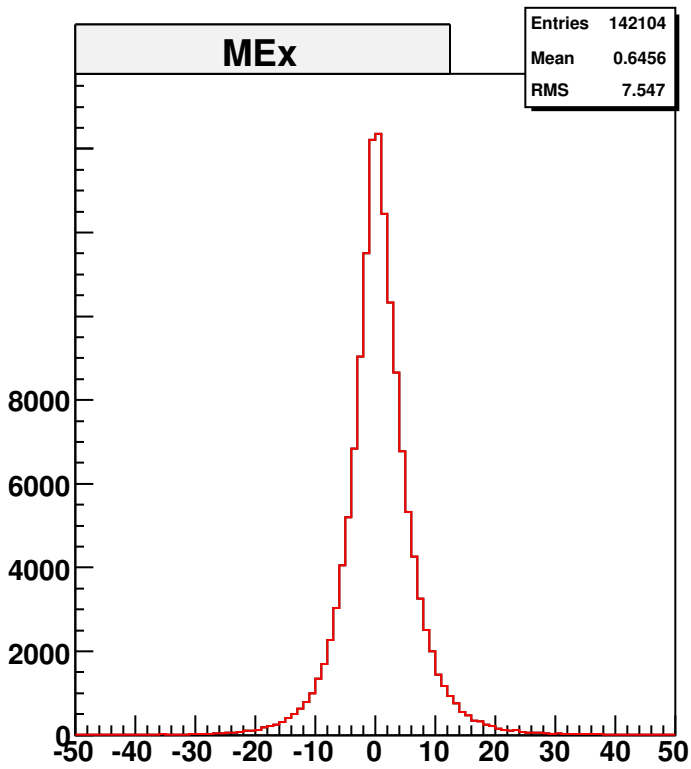






Taus NNL3 (TAU All)


MEt
Entries 142104
Mean 7.082
RMS 7.754
8000
6000
4000
2000
0
0 10 20 30 40 50 60 70 80 90 100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4000
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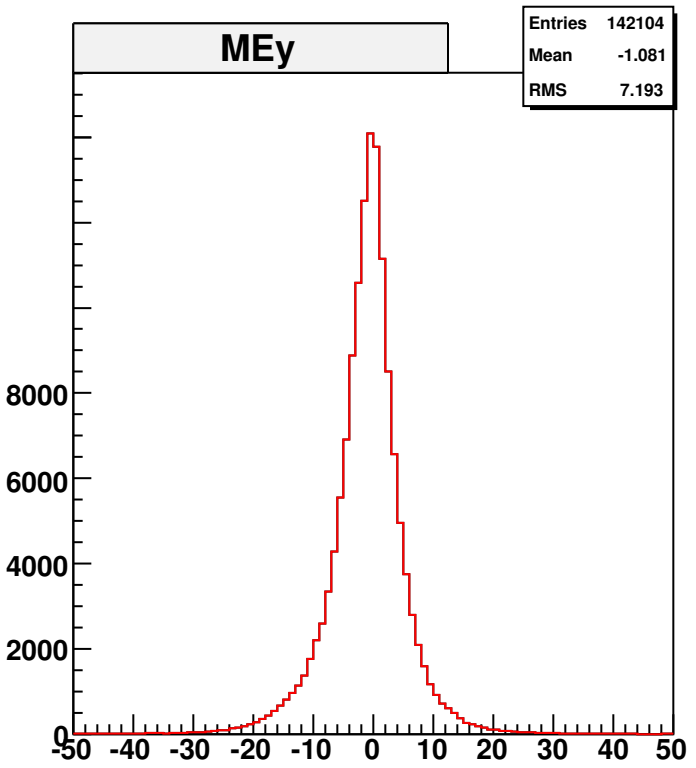
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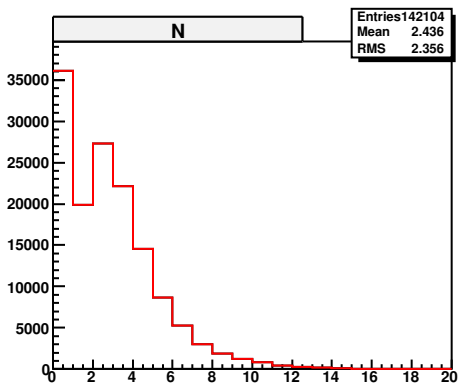
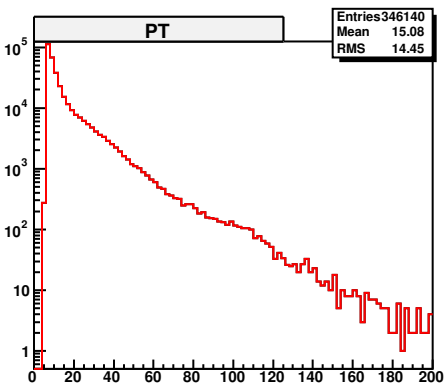
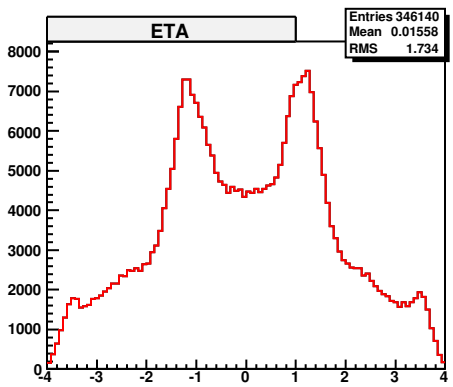
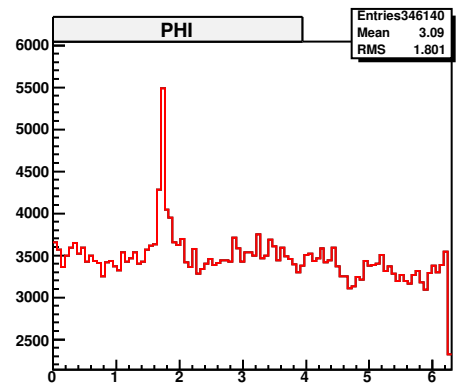
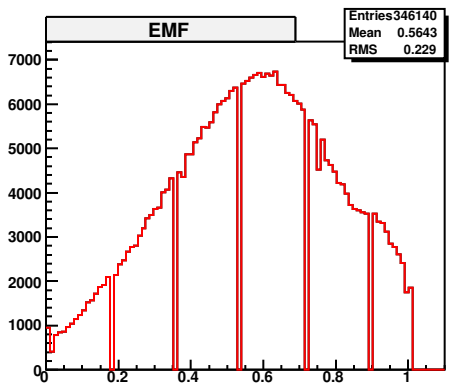
Met (No cuts)

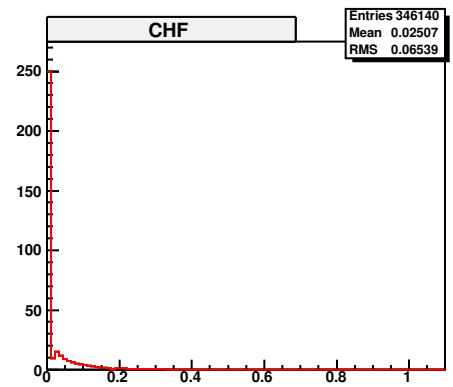


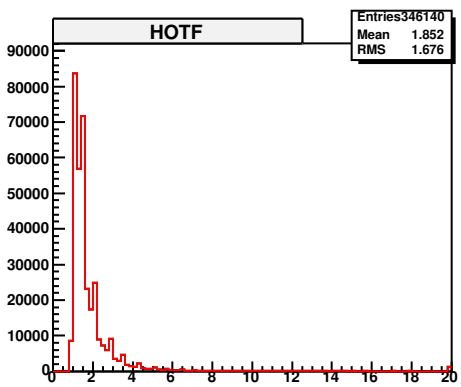


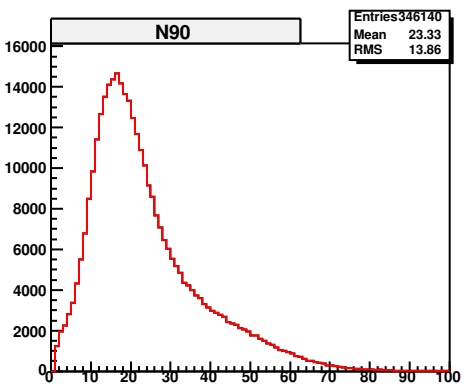


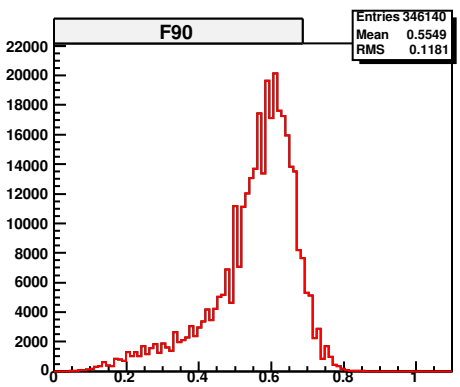


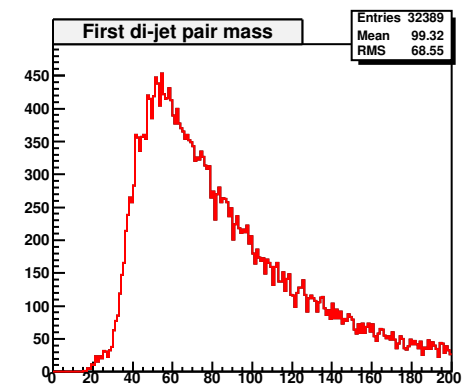


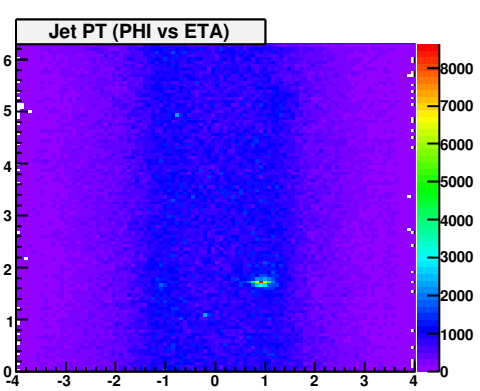




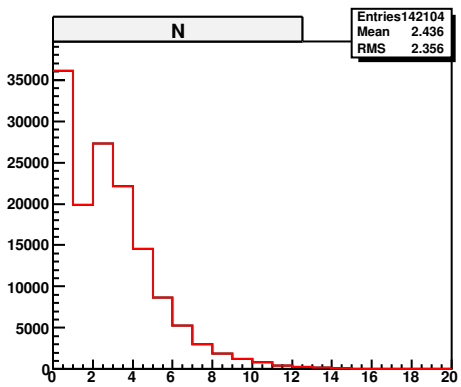


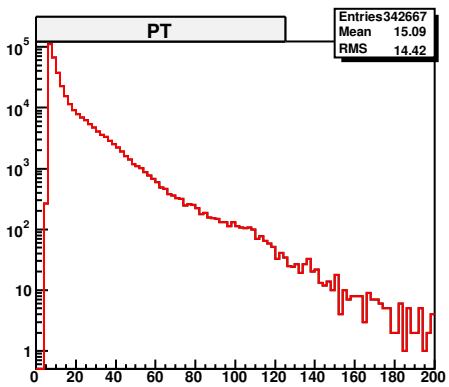


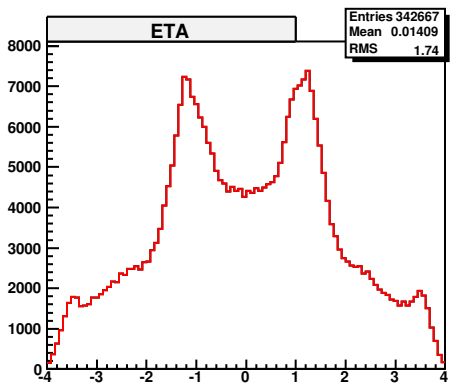


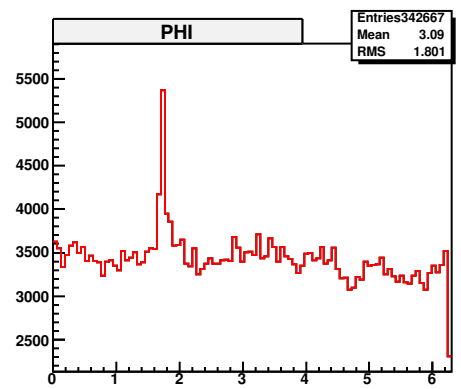


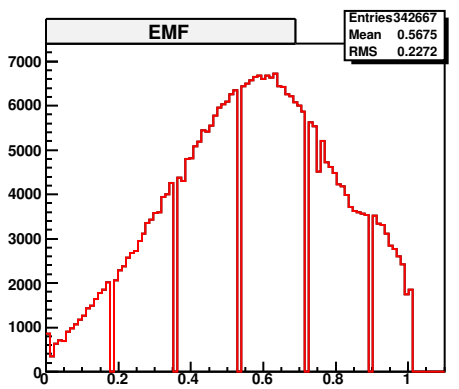
Jets (Cone R 0.7 (no cuts))

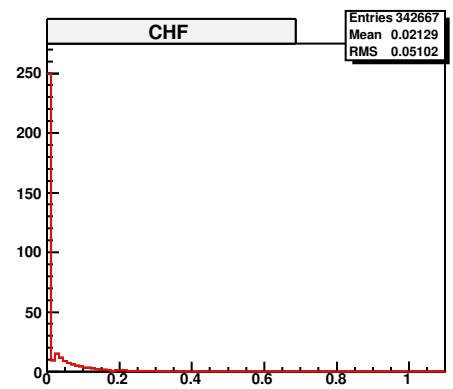


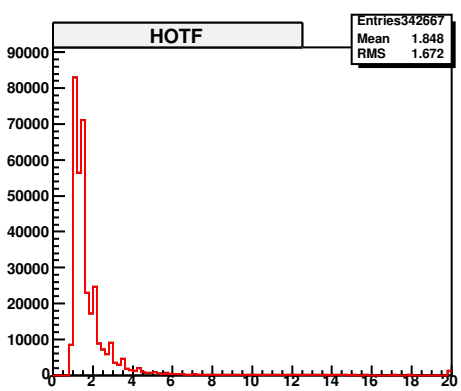


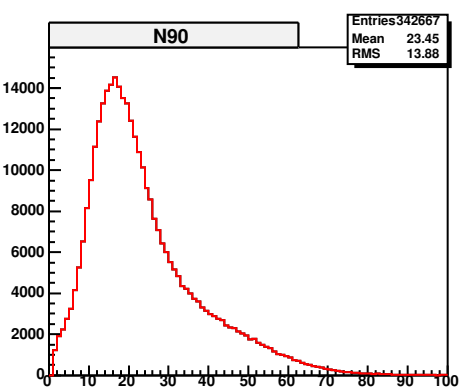


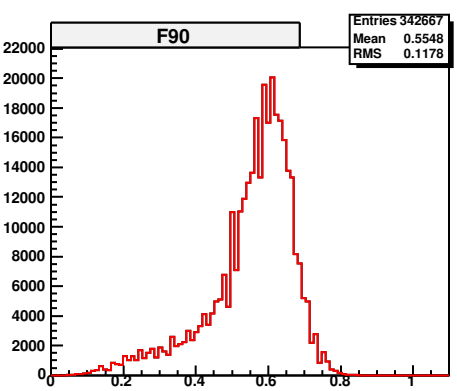


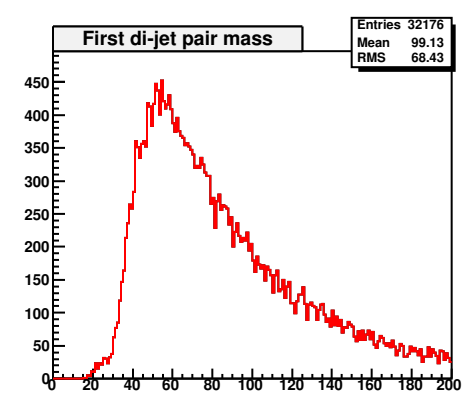


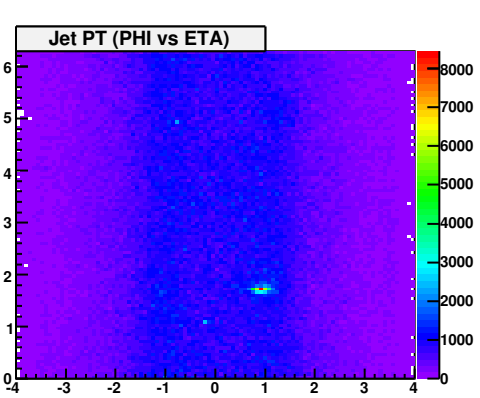




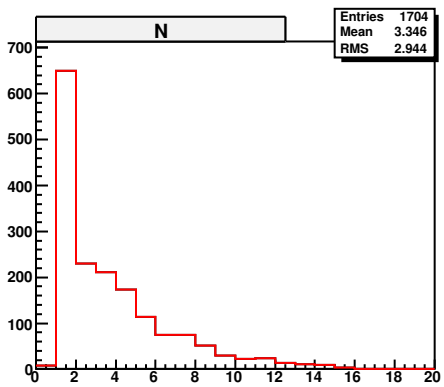


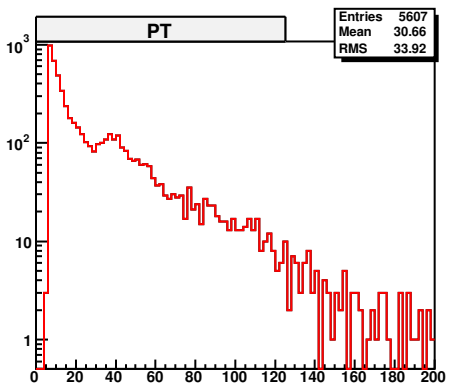


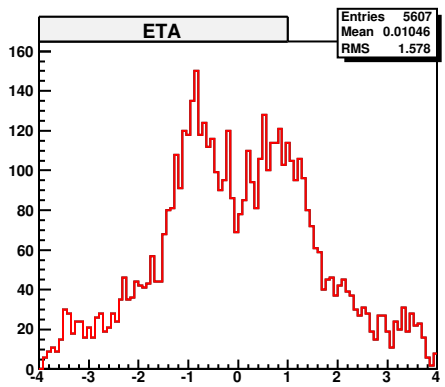


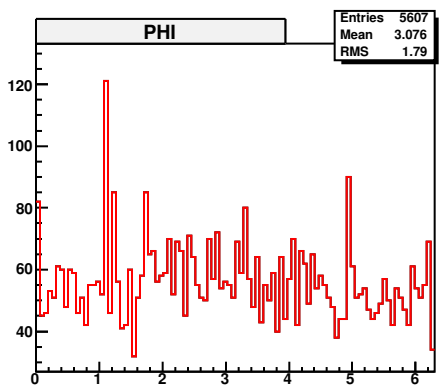


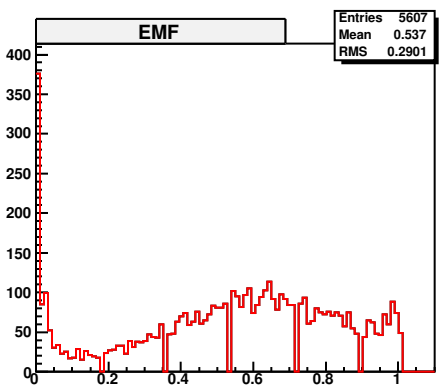
Jets (Cone R 0.7 (standard cuts))

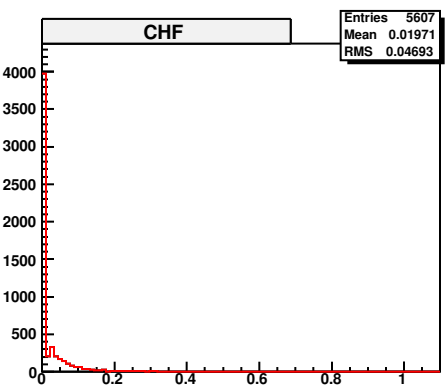


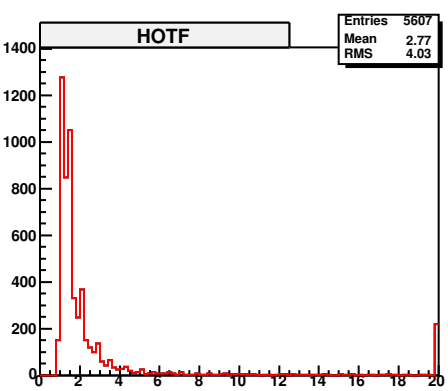


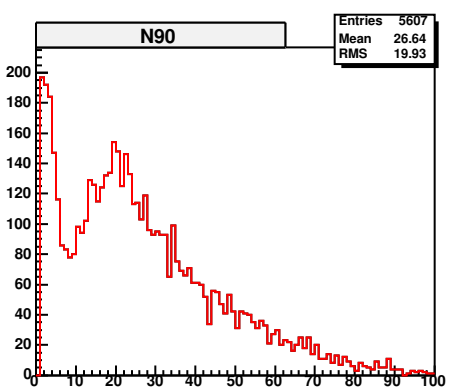


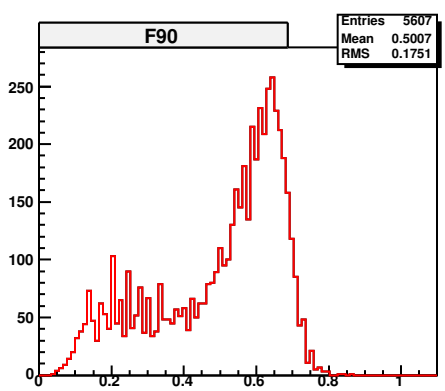


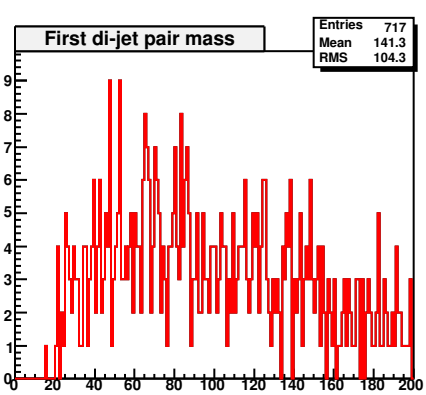


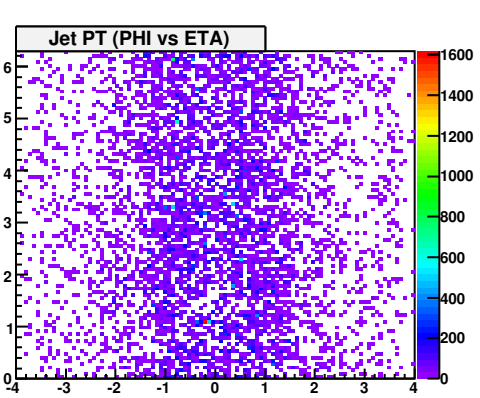




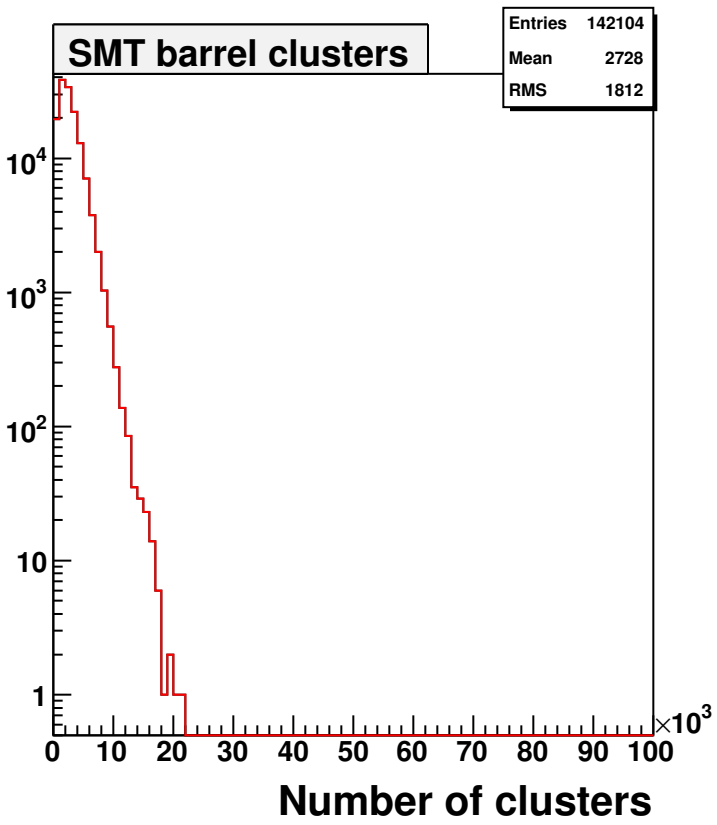


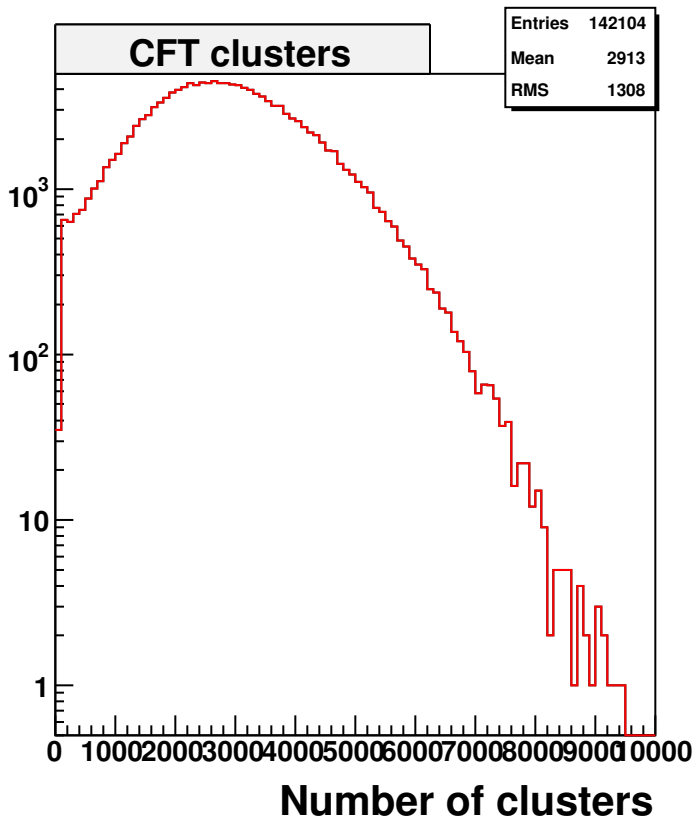


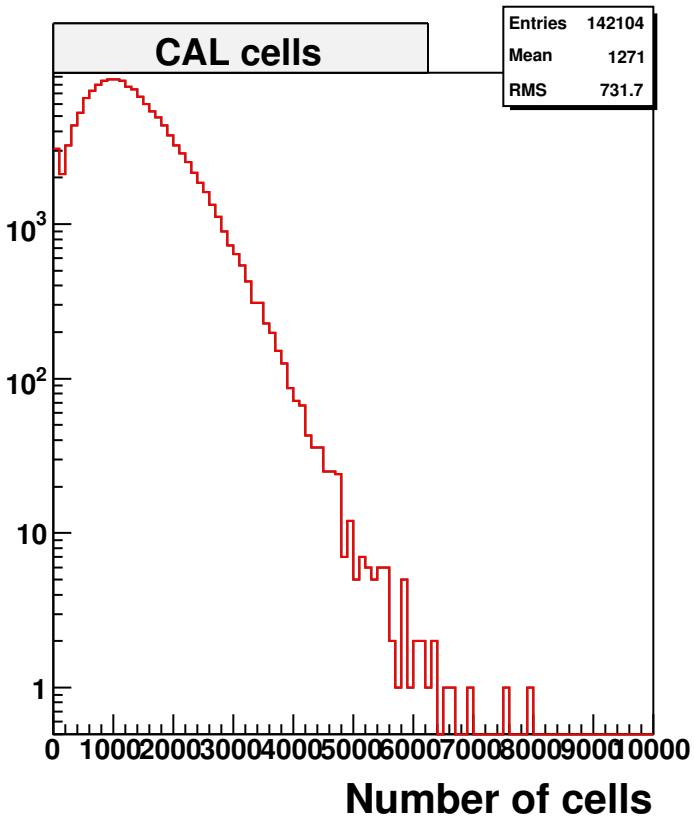


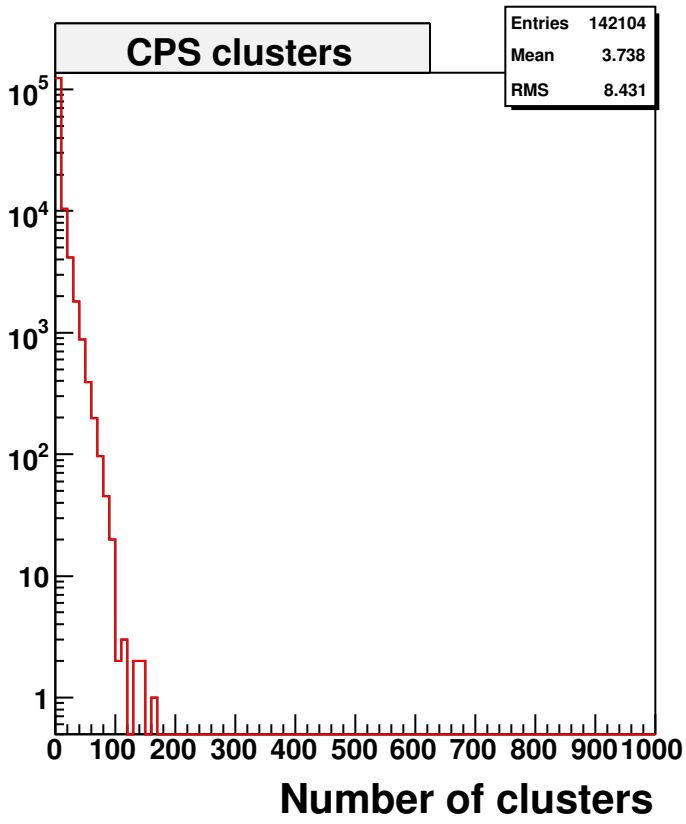


Jets (Cone R 0.7 (standard cuts, MET>30))

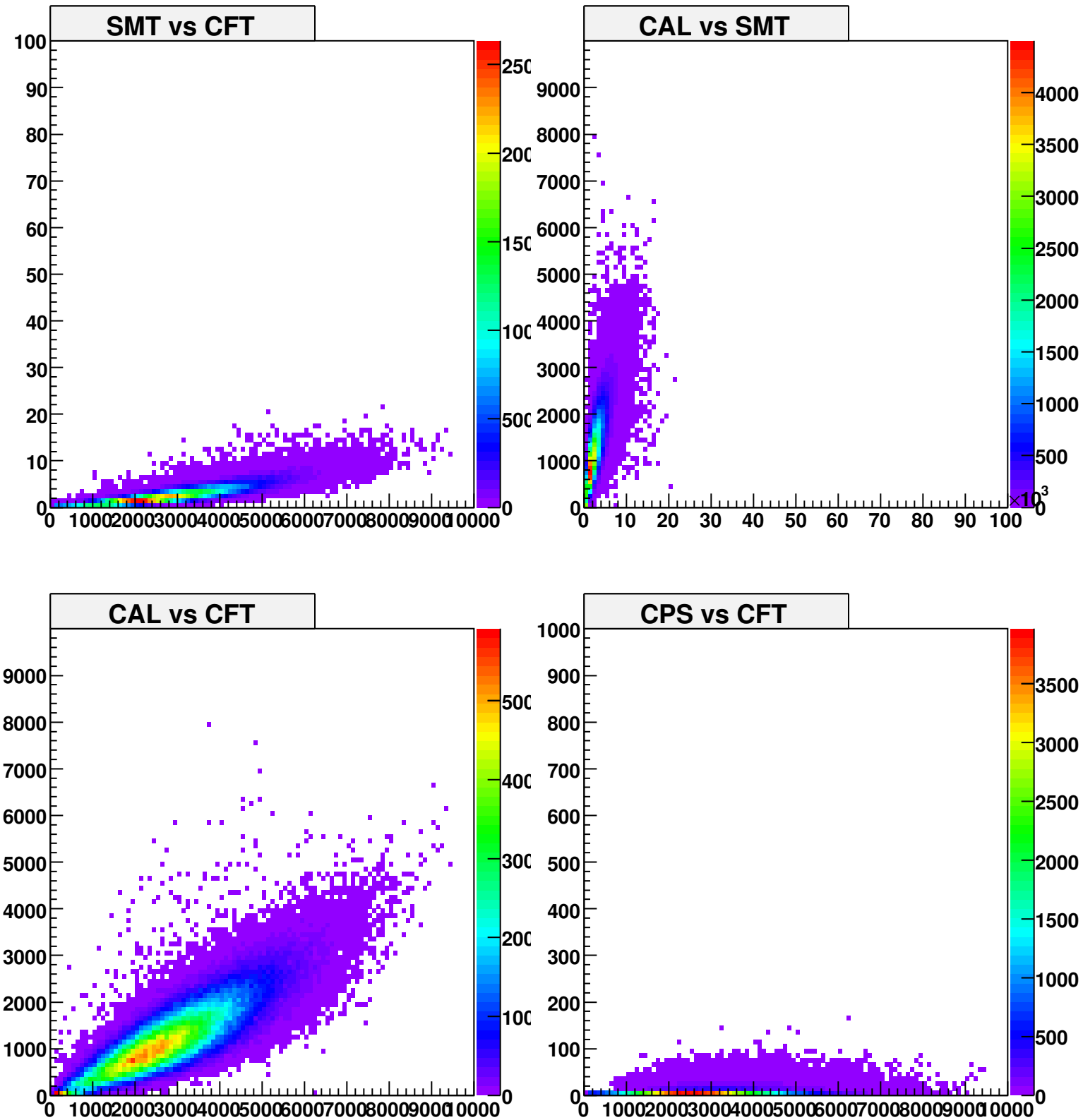


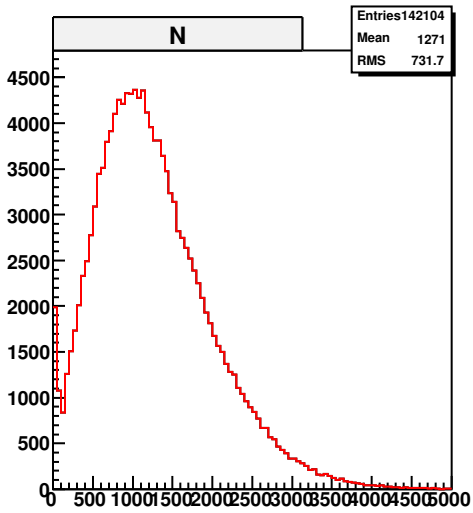


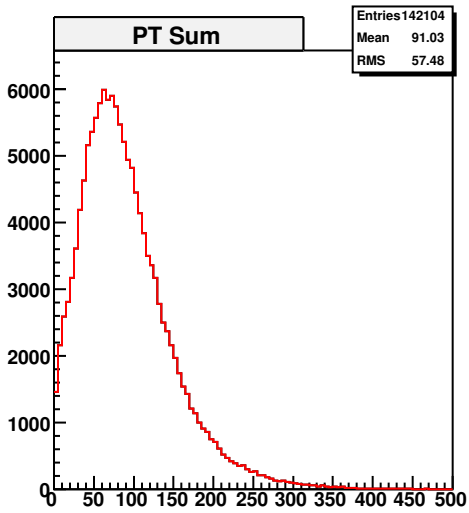


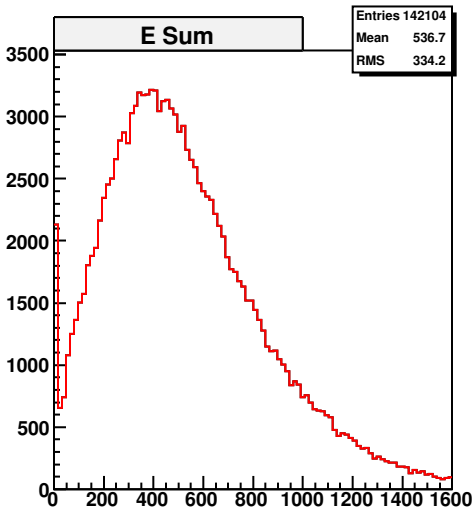


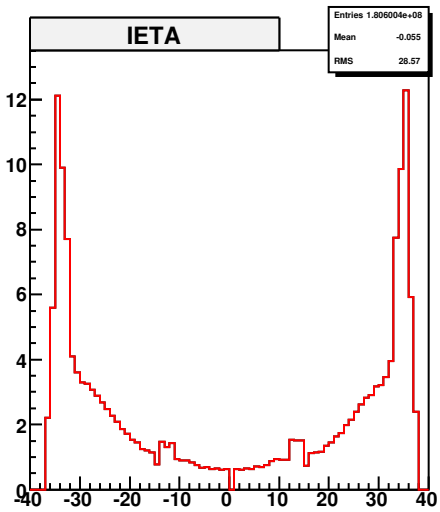
Detector Occupancy (Detector)

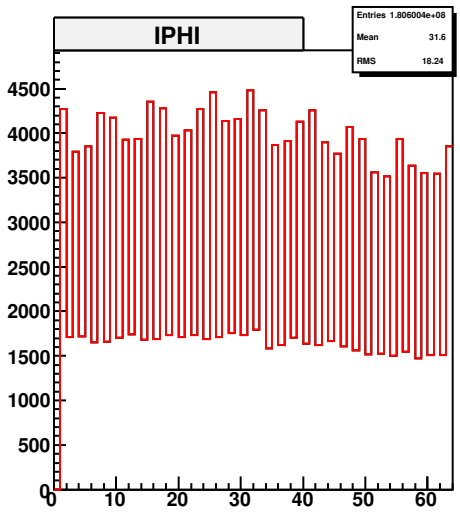

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

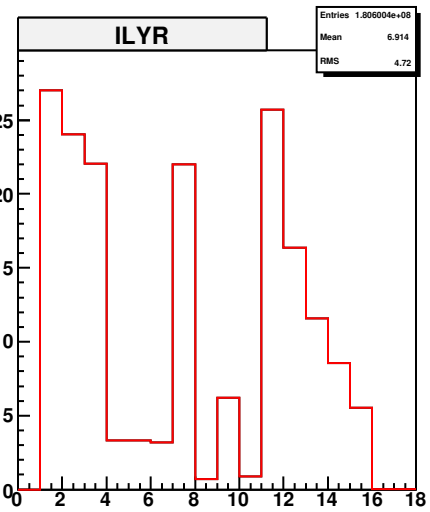


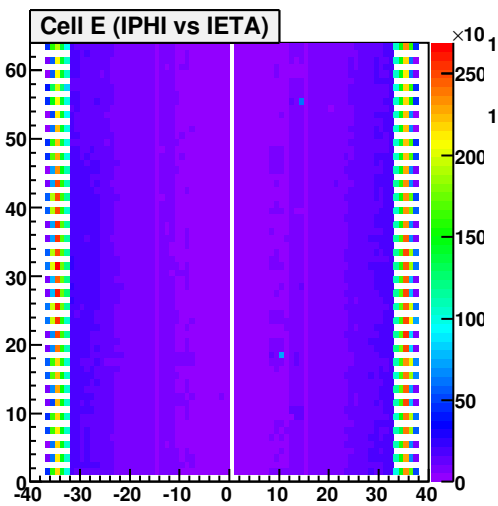


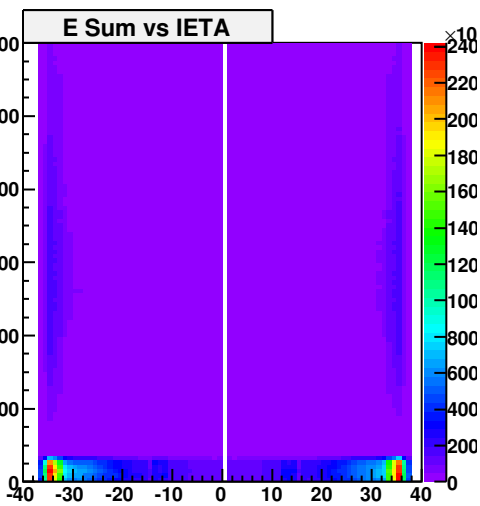


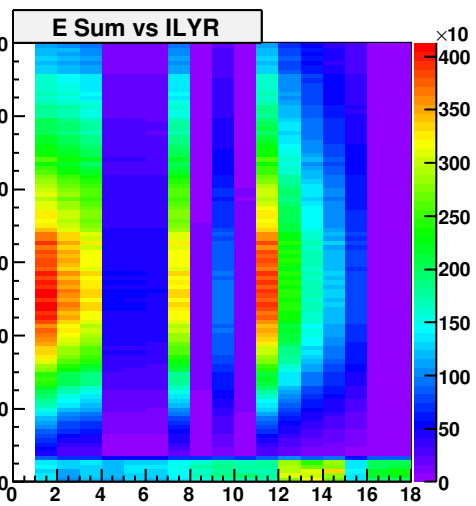




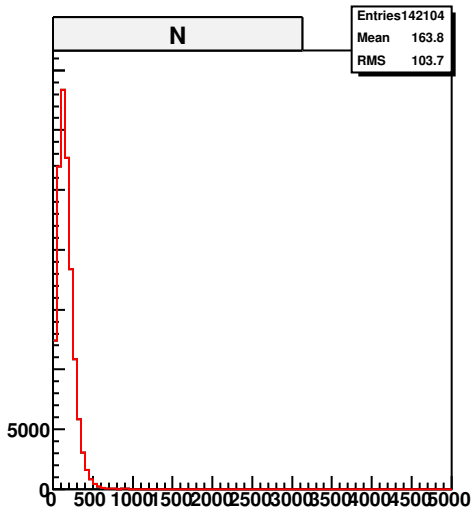


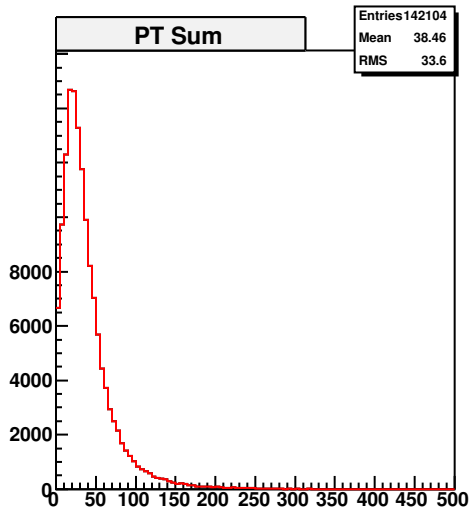


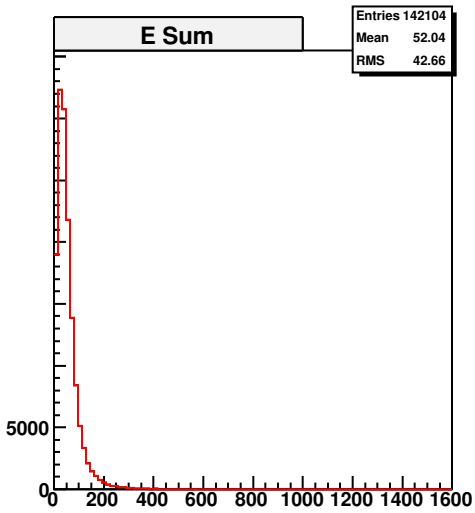


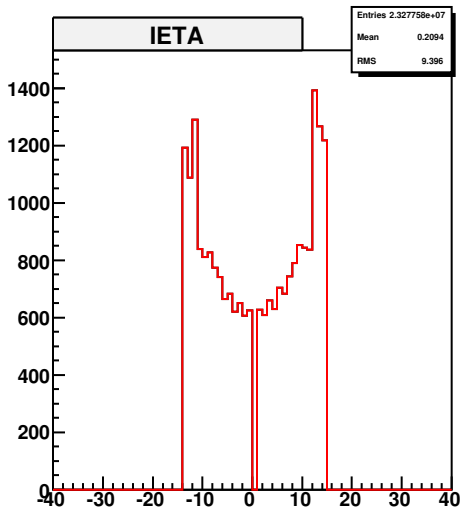


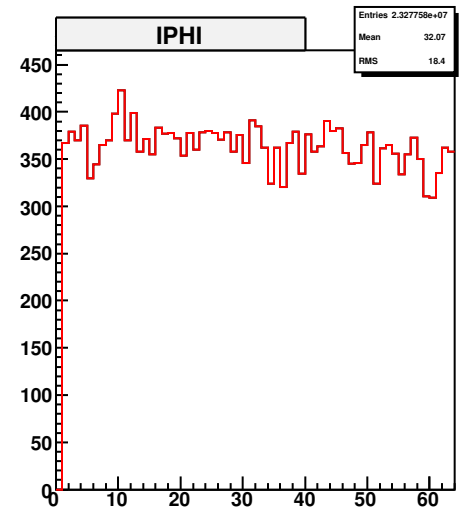
Calorimeter (All cells)

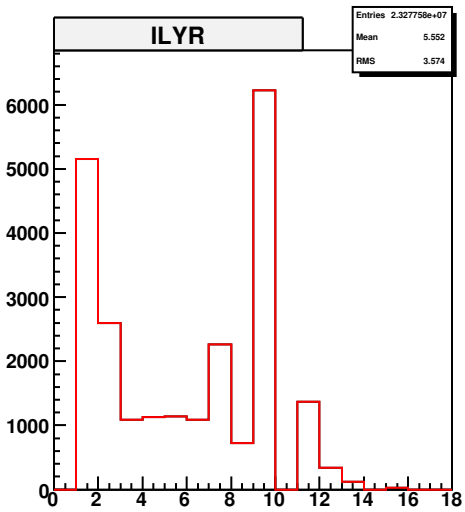


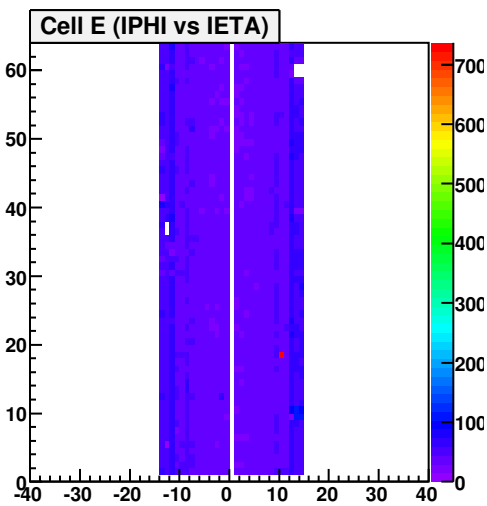


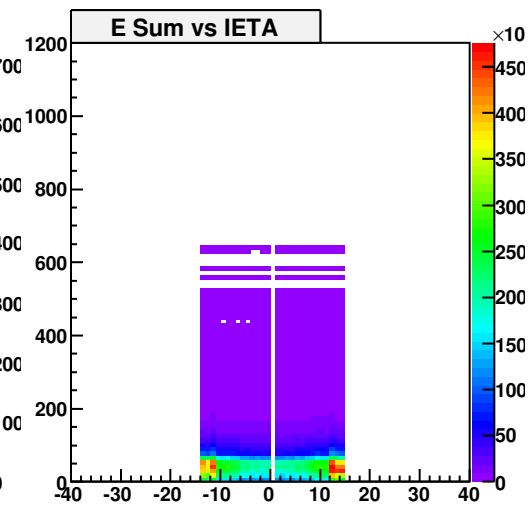


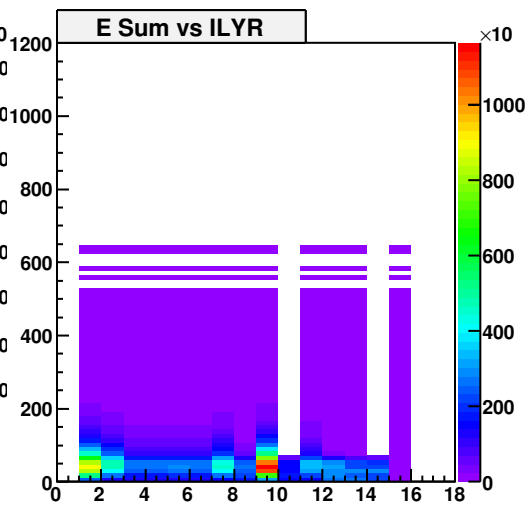




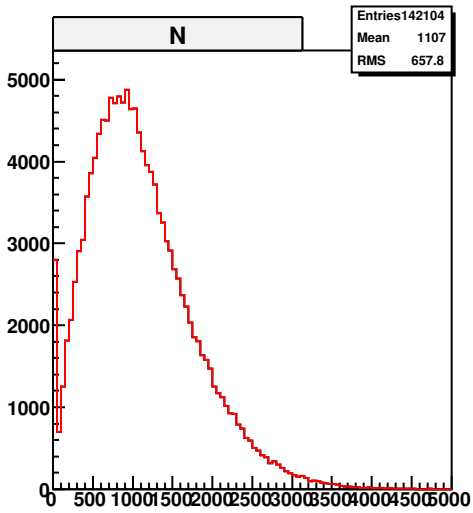


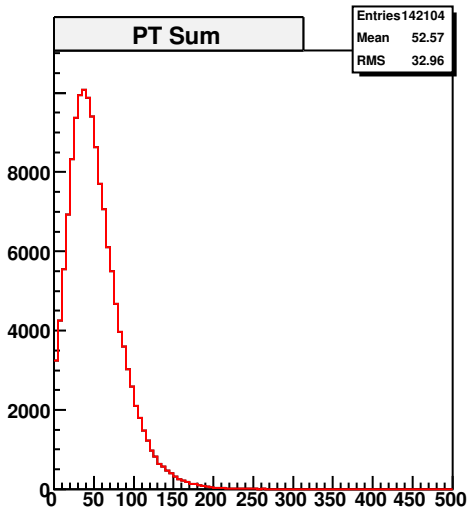


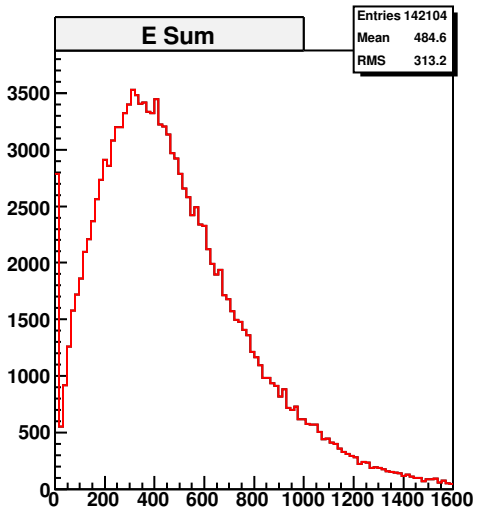


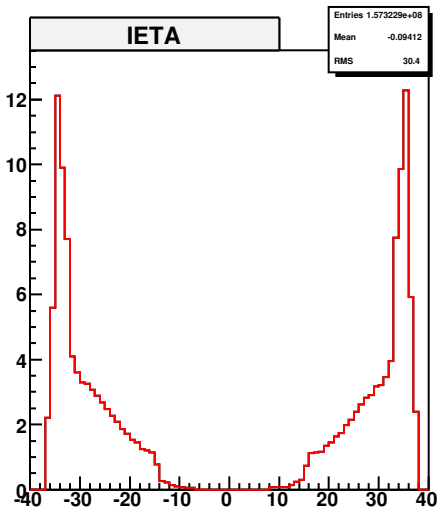


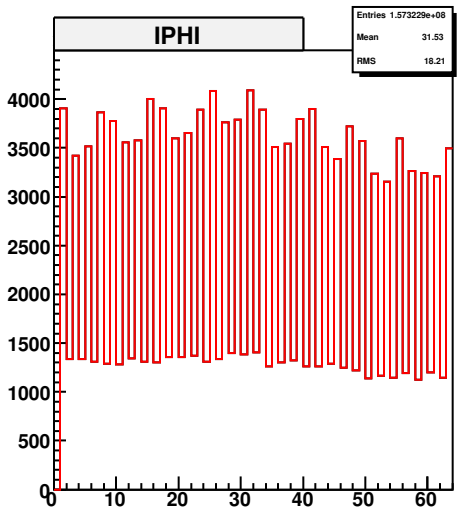
Calorimeter (All CC cells)

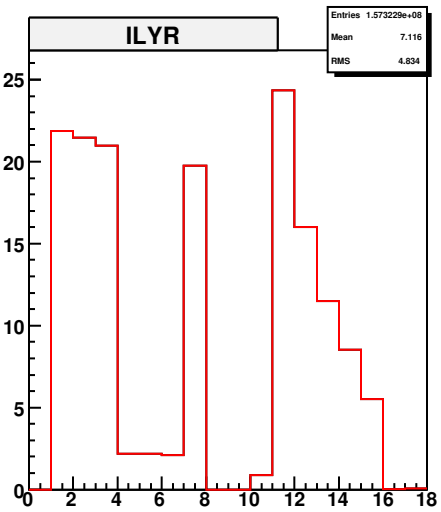


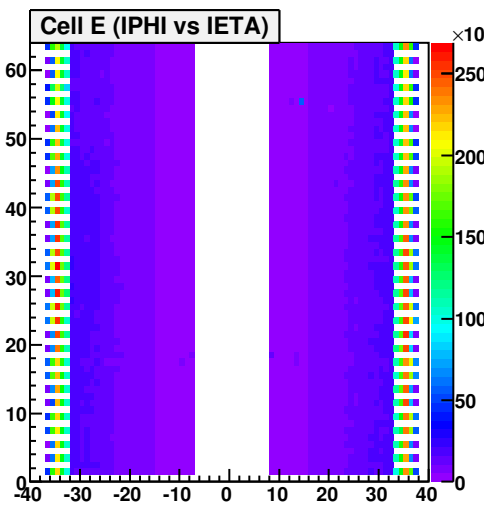


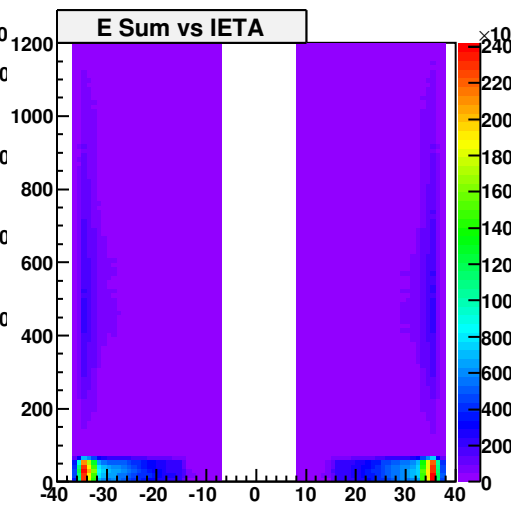


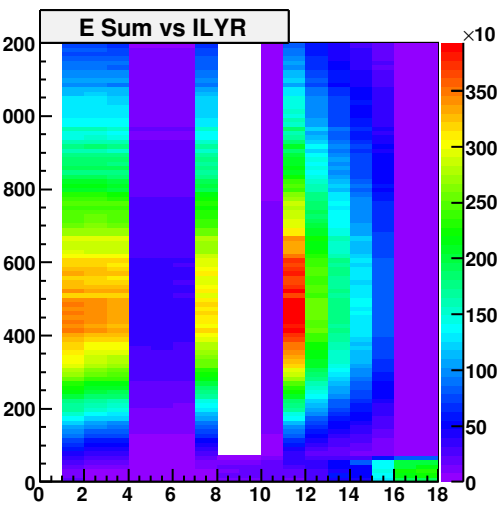




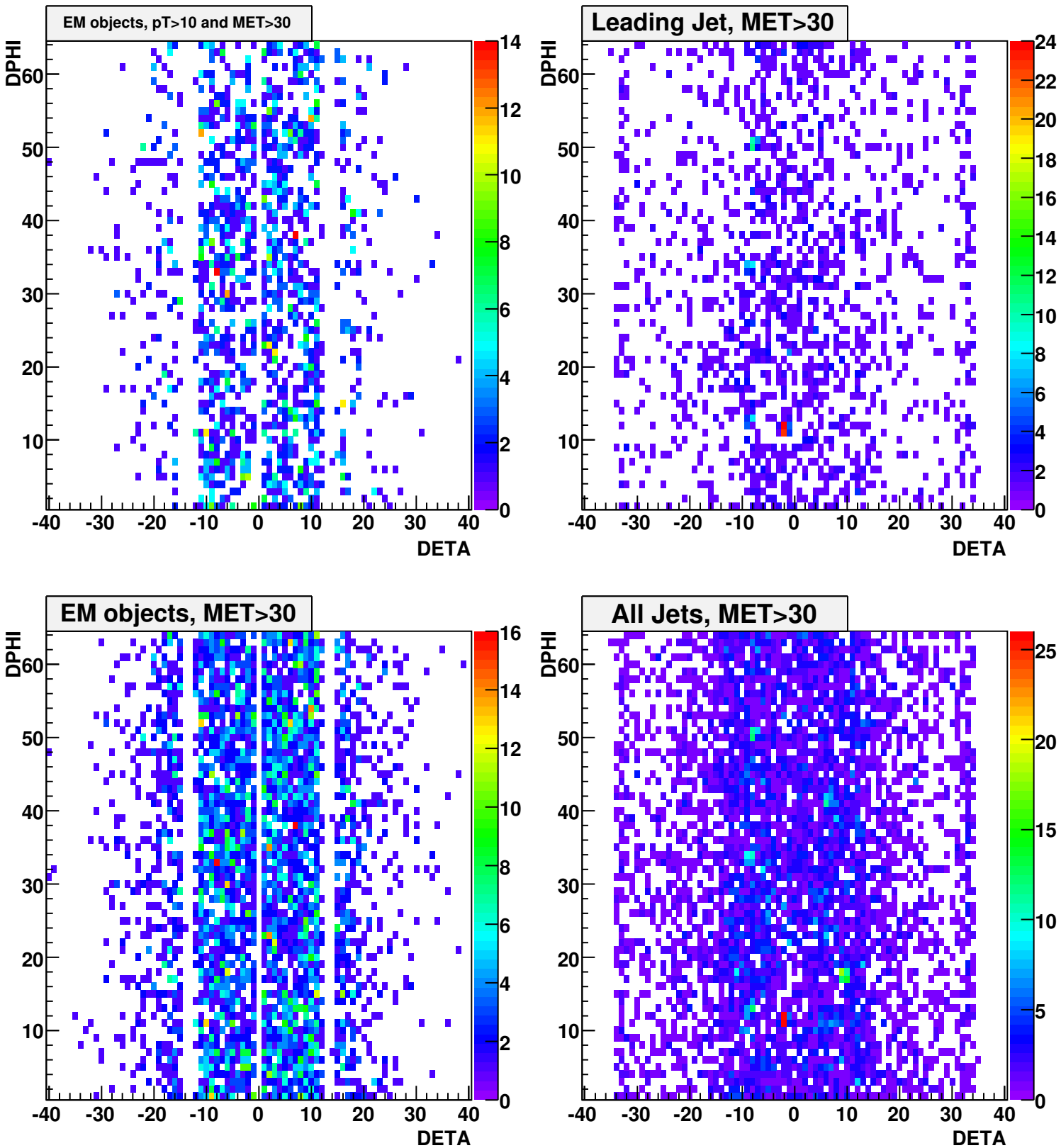




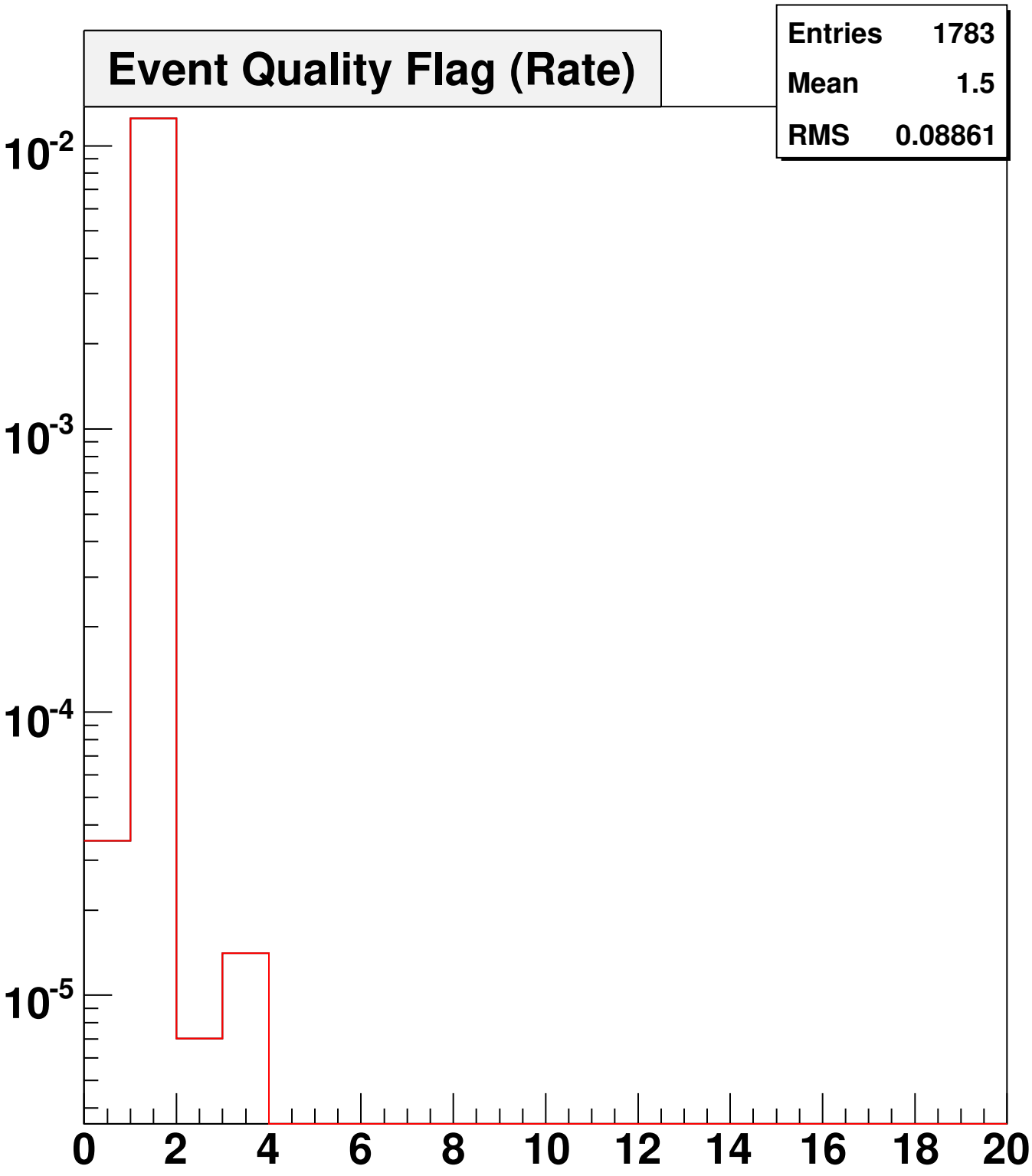




Calorimeter (All EC cells)



Cal Objects with MET>30 (All cells)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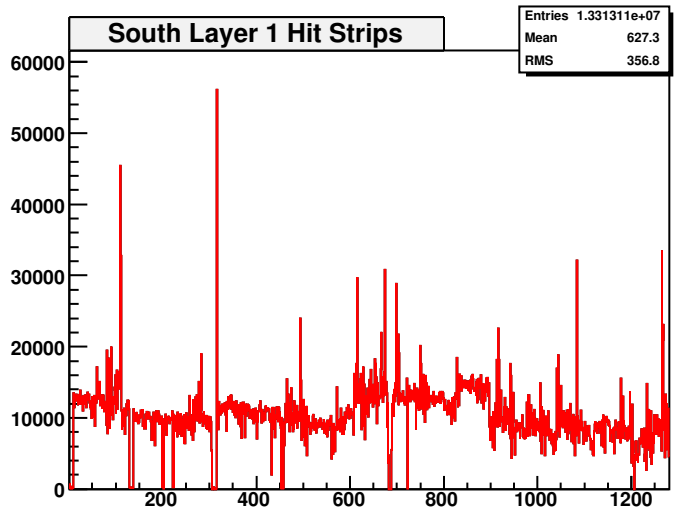
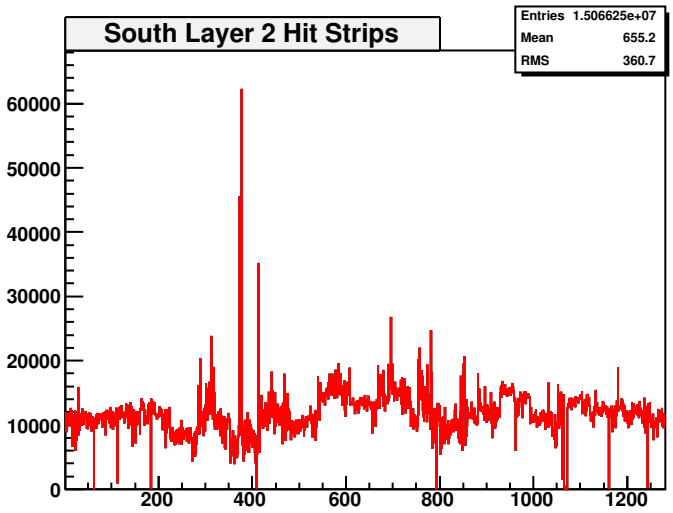
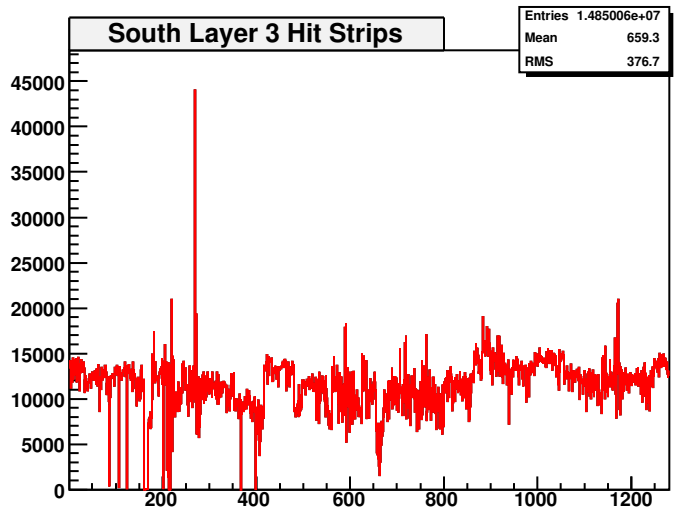
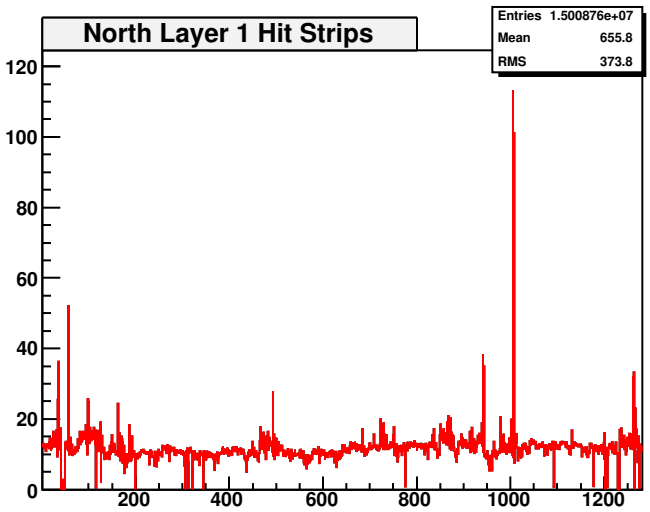
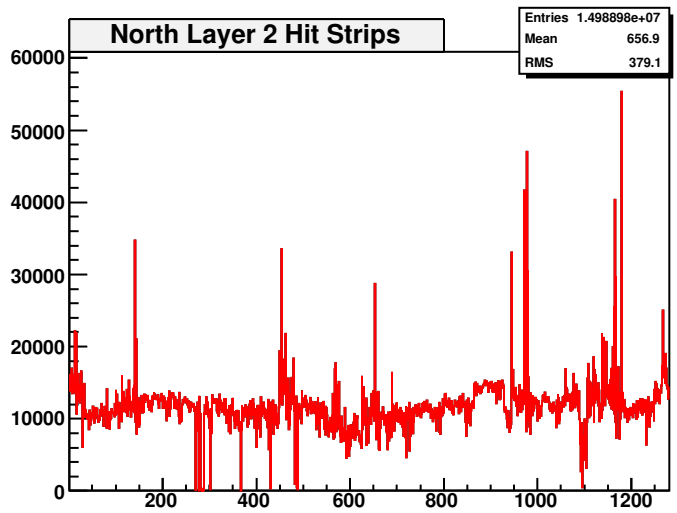
Mean 1.5
RMS 0.08861
10-2
10-3
10-4
10-5
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

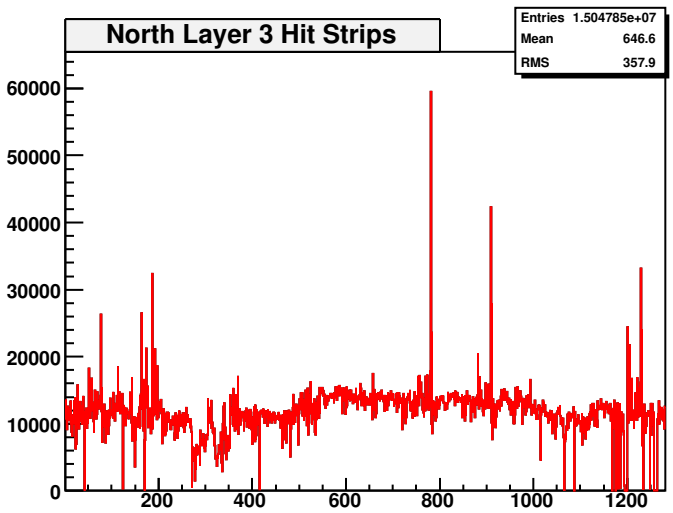




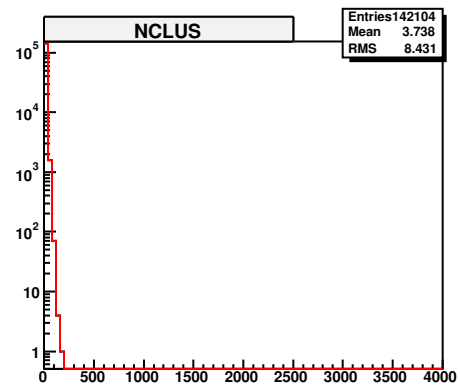


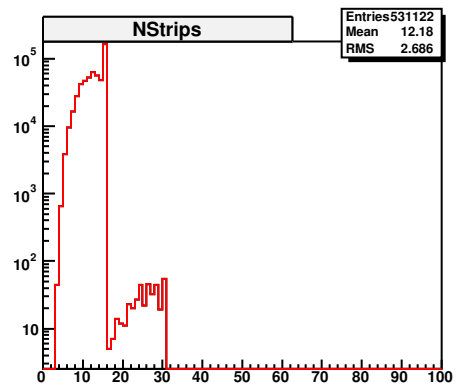


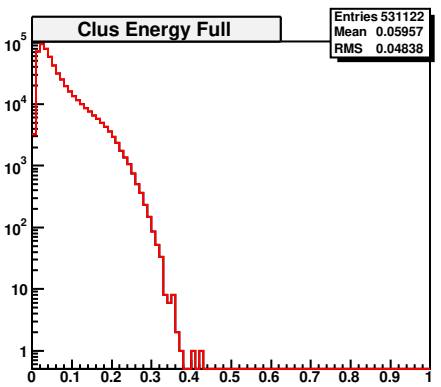


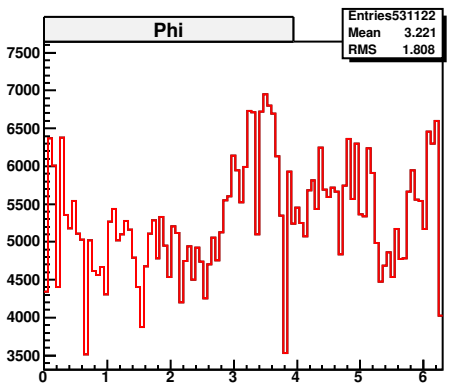


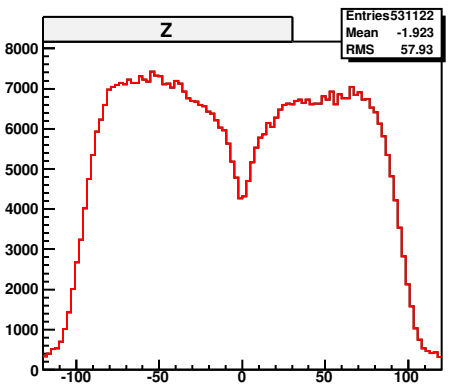
CPS Hit Strips (All Clusters)

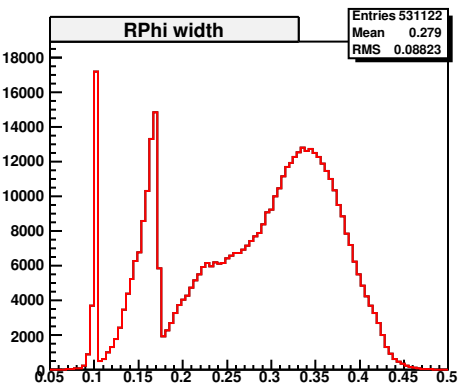


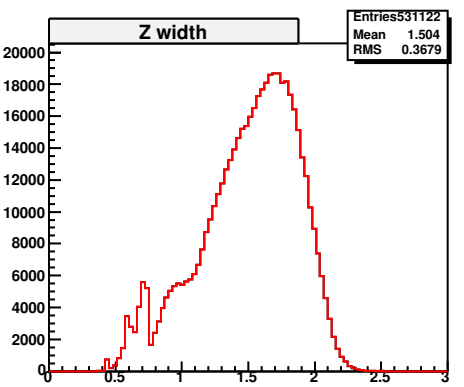


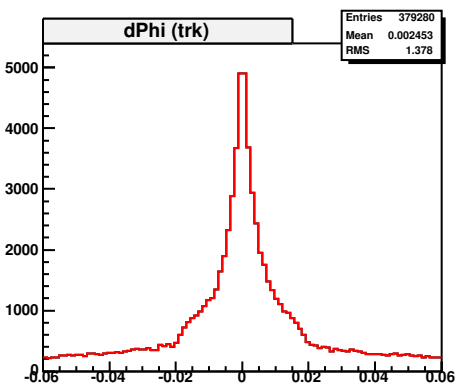


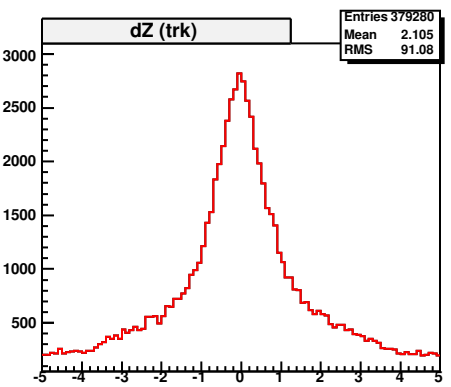


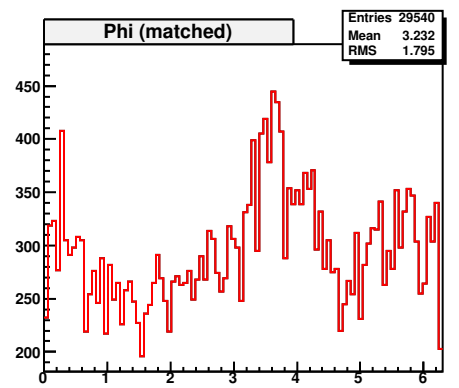


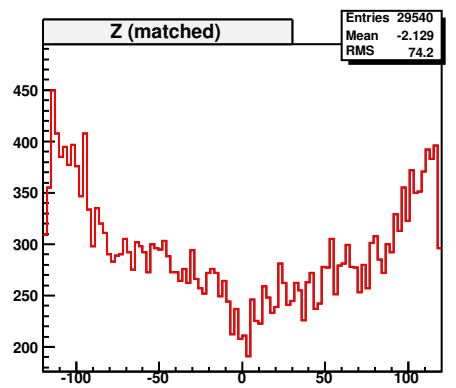




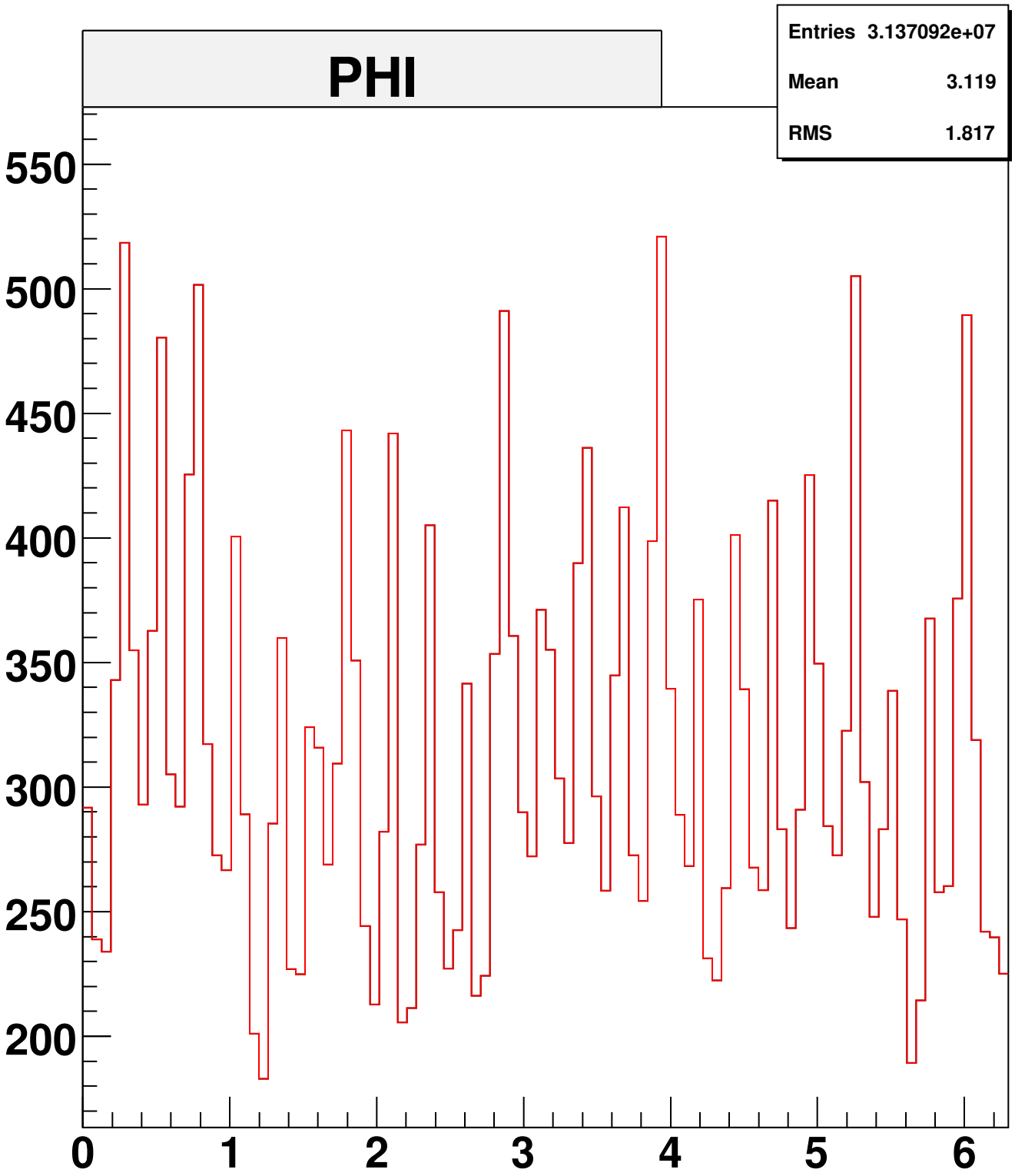


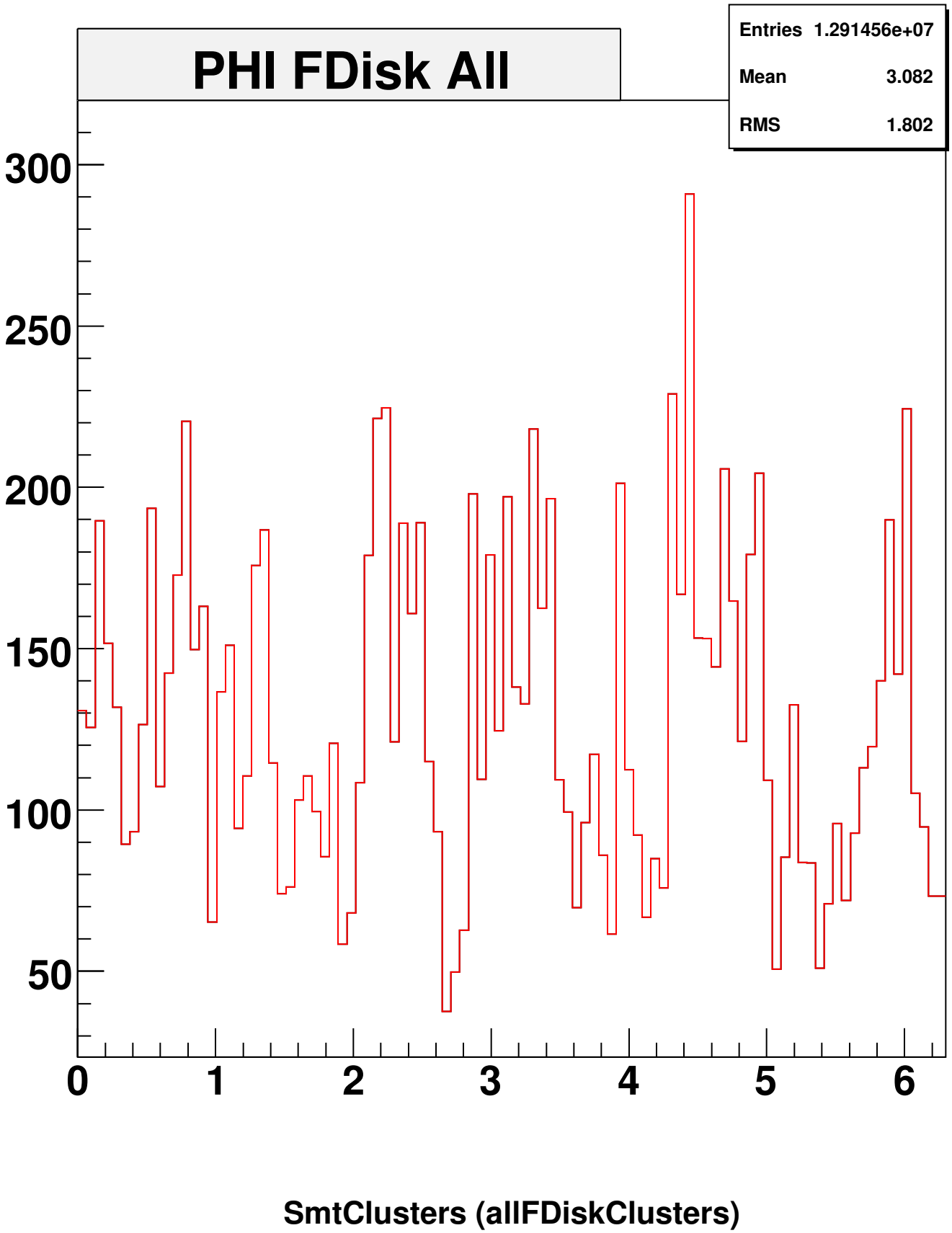


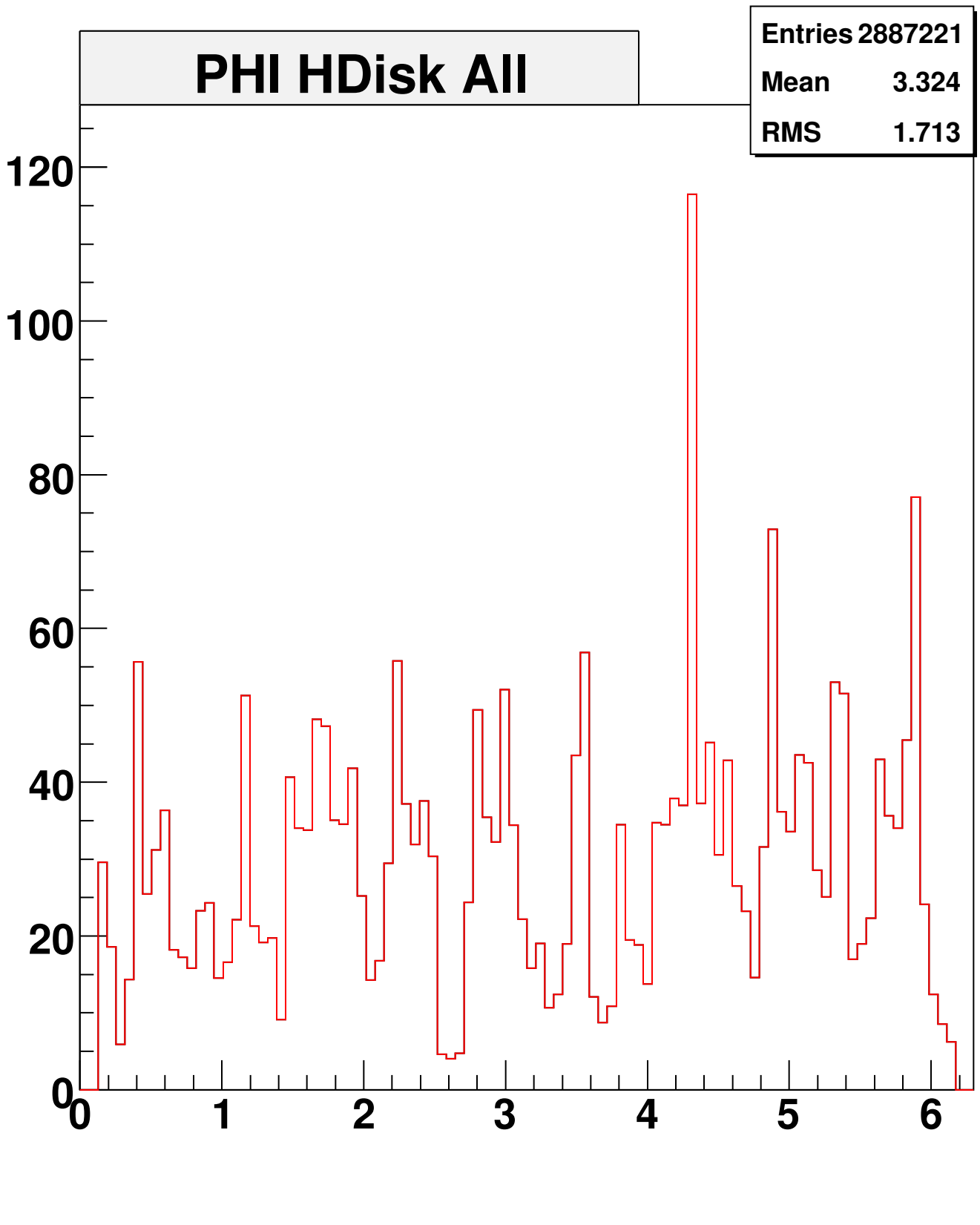


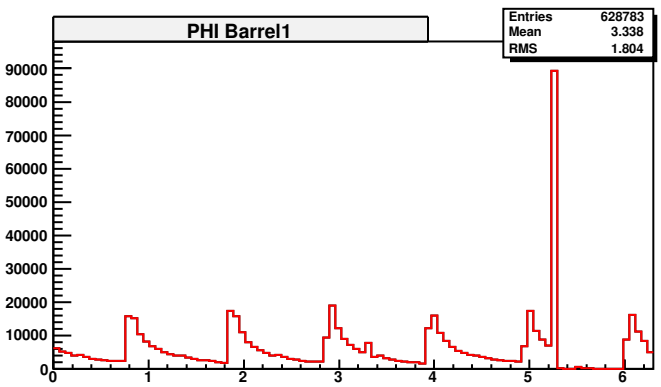


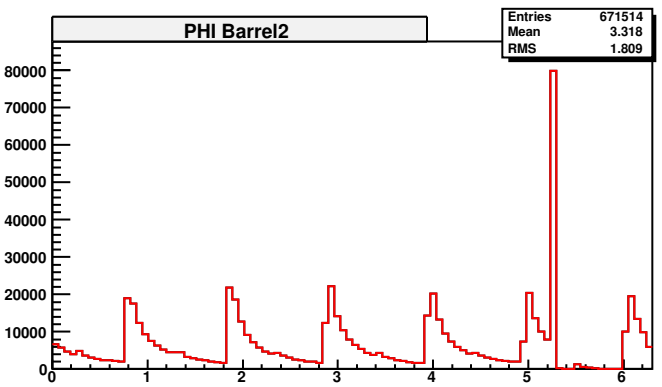
CPS Clusters (All Clusters)

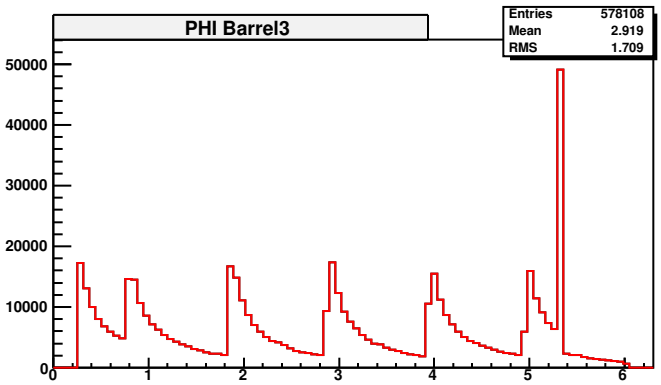

PHI
Entries 3.137092e+07
Mean 3.119
RMS 1.817
550
500
450
400
350
300
250
200
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

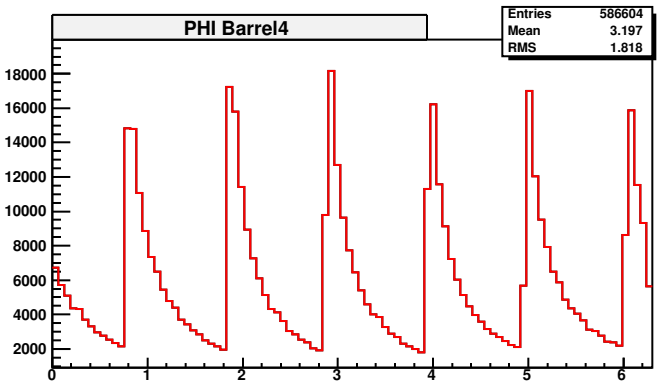

PHI FDisk All
Entries 1.291456e+07
Mean 3.082
RMS 1.802
300
250
200
150
100
50
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

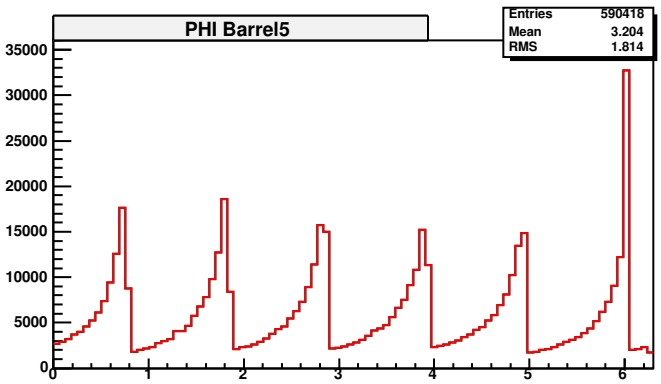

PHI HDisk All
Entries 2887221
Mean 3.324
RMS 1.713
120
100
80
60
40
20
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

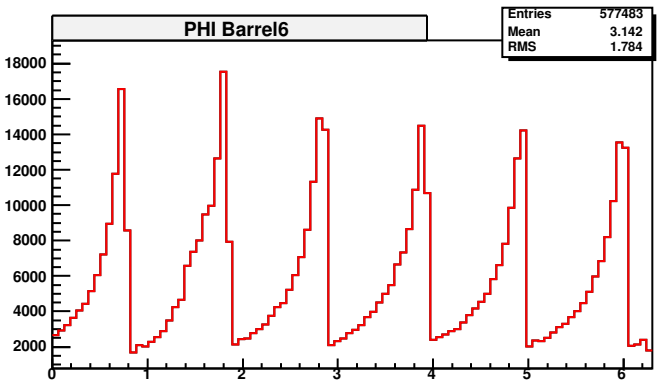


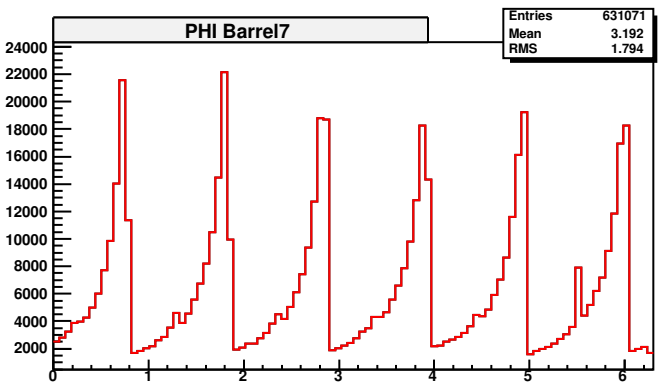


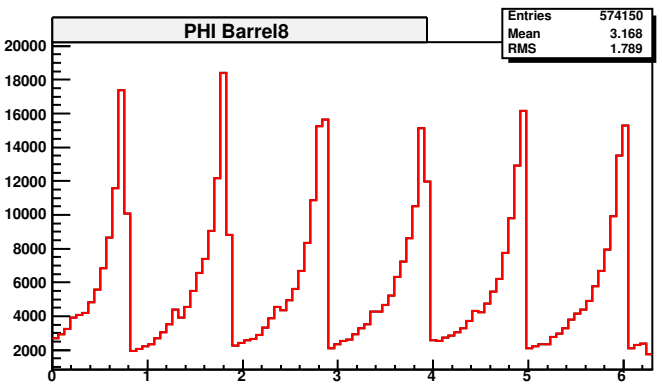




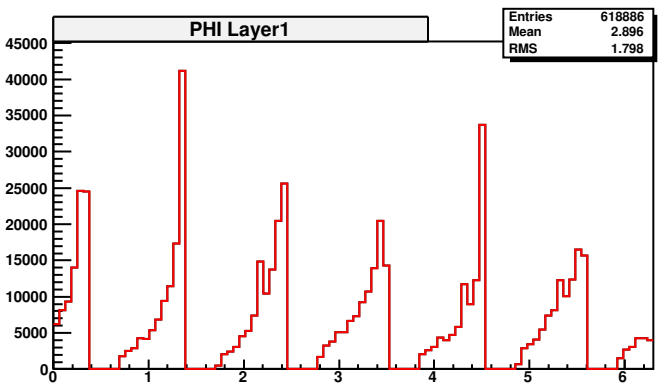


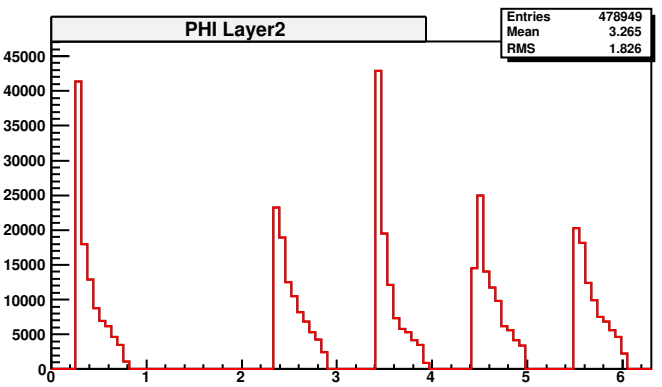


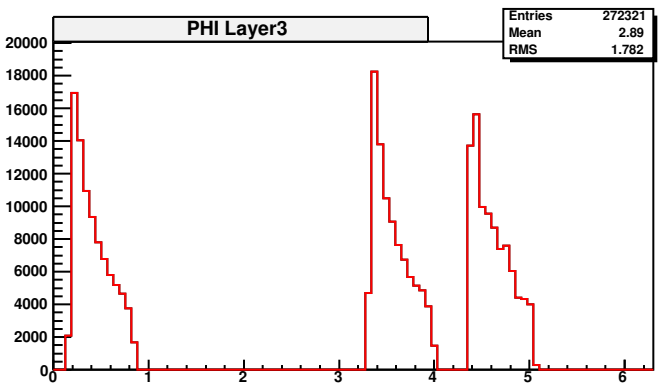


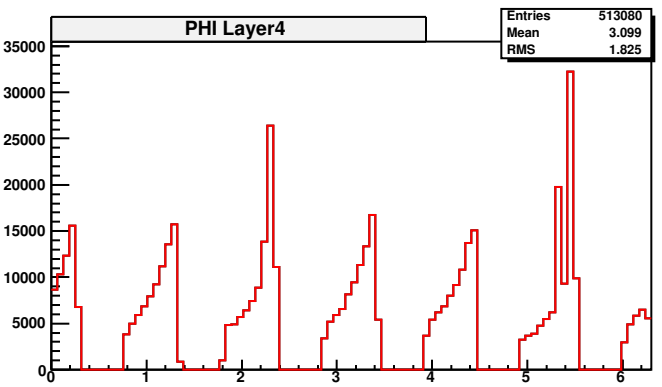


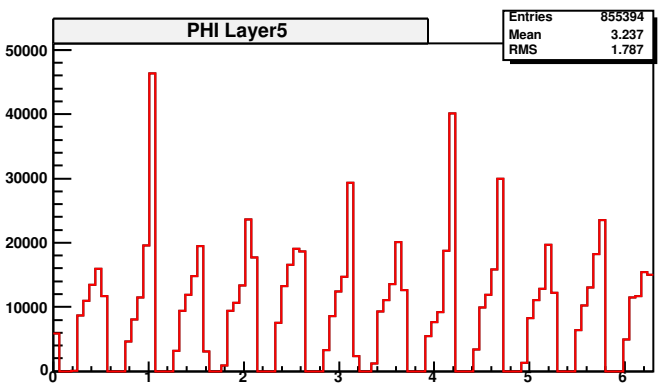
SmtClusters (ClustrLayer0)

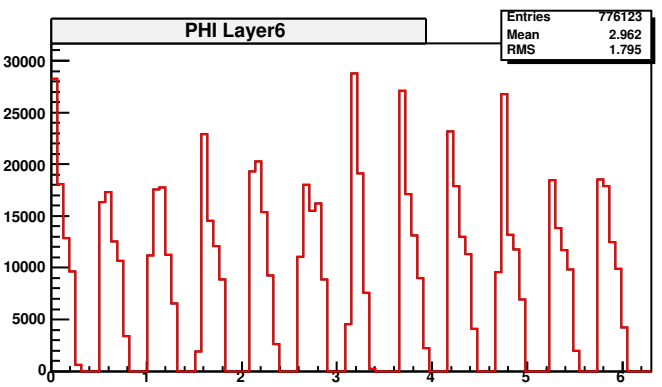


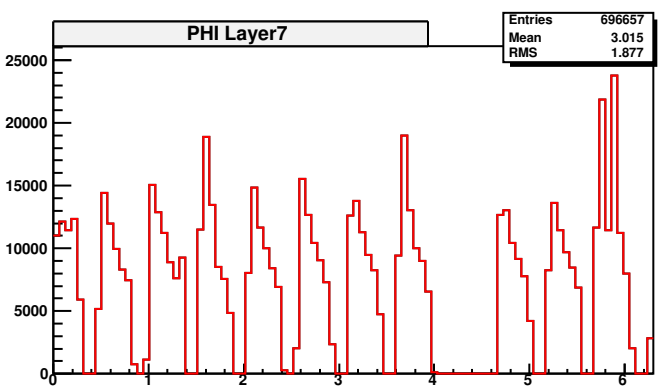


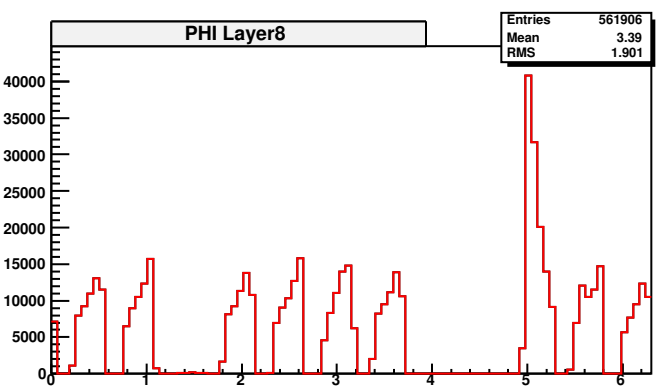




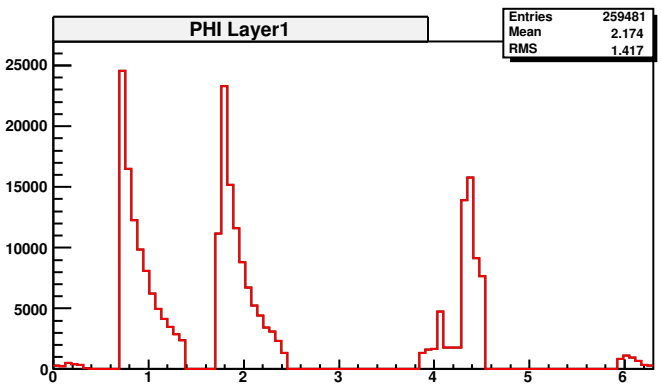


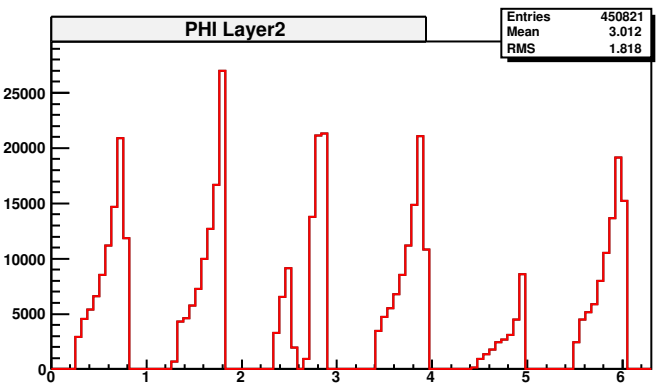


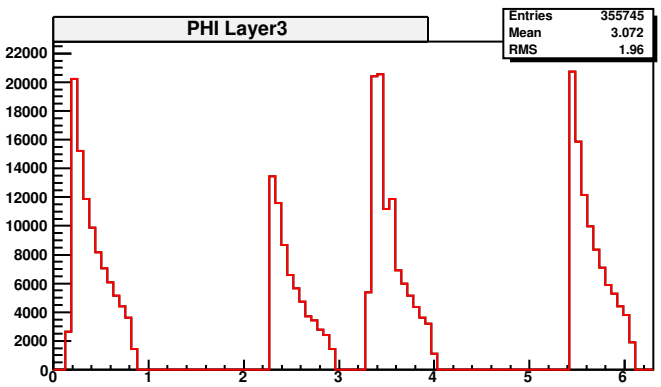


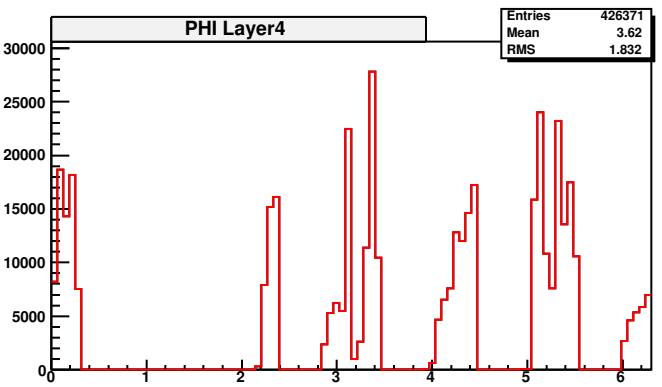


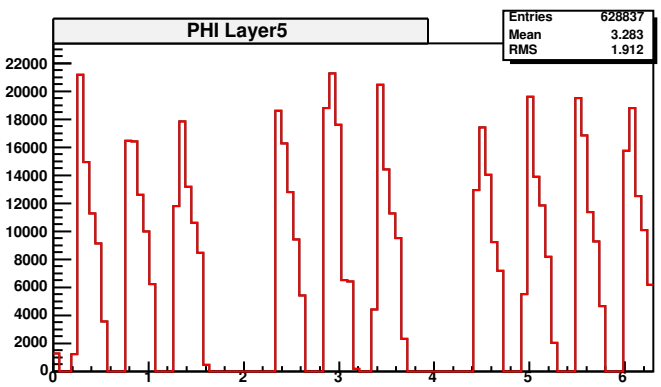
SmtClusters (ClustrBar1)

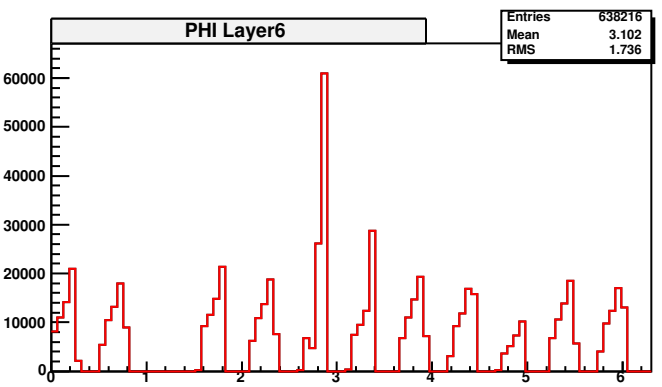


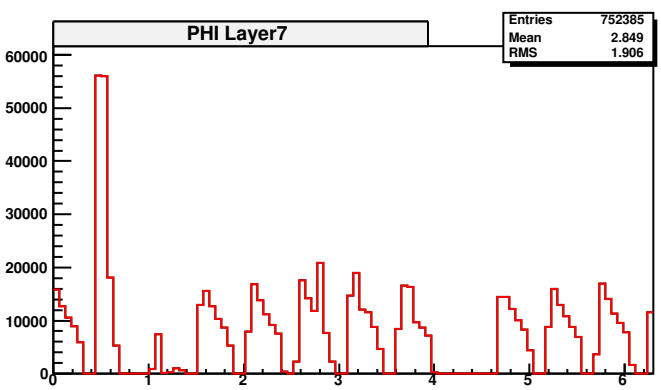


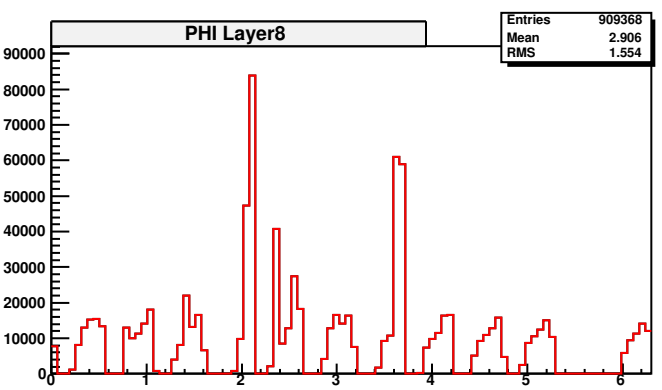




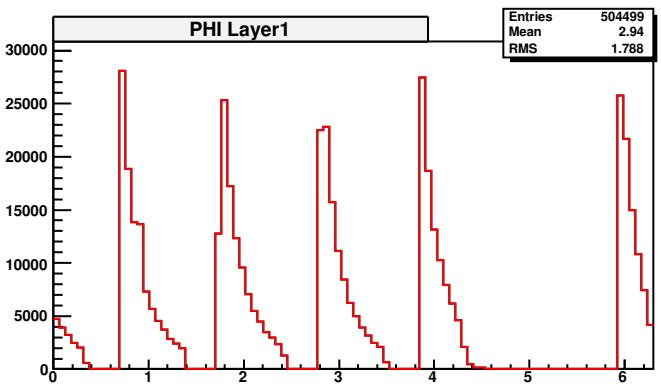


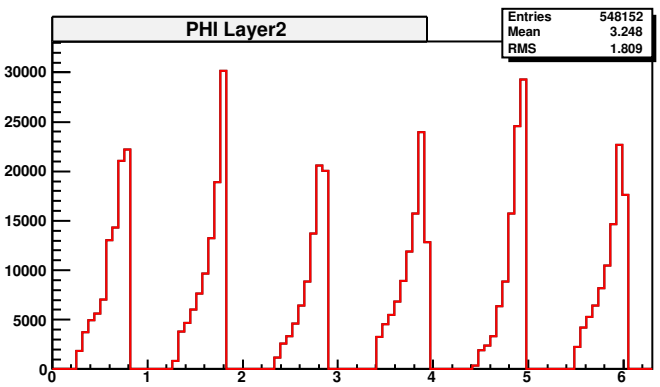


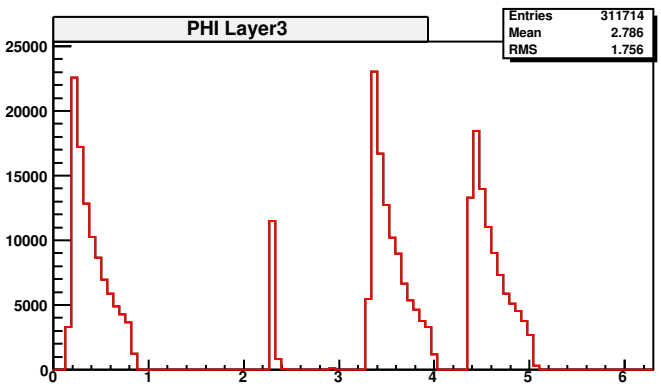


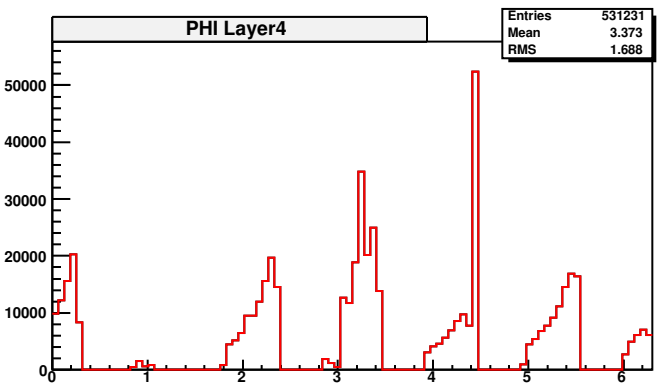


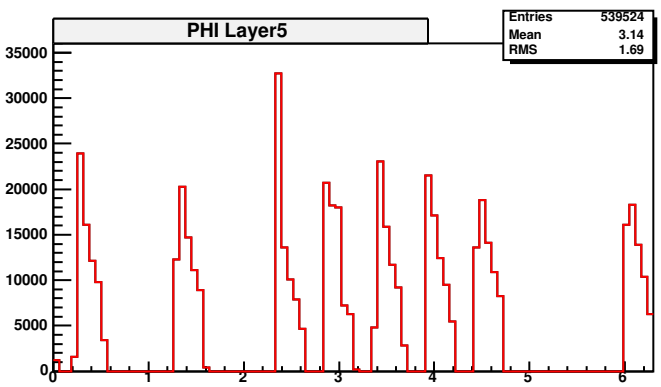
SmtClusters (ClustrBar2)

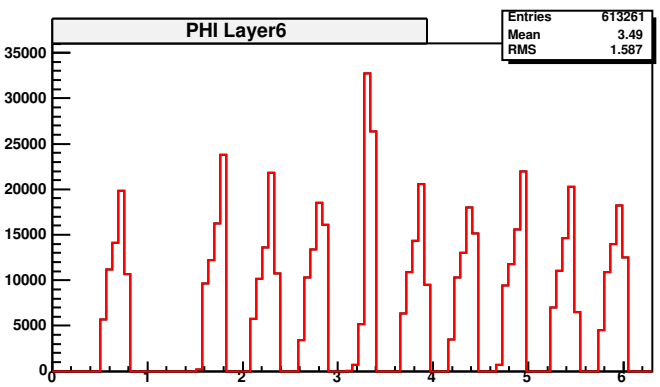


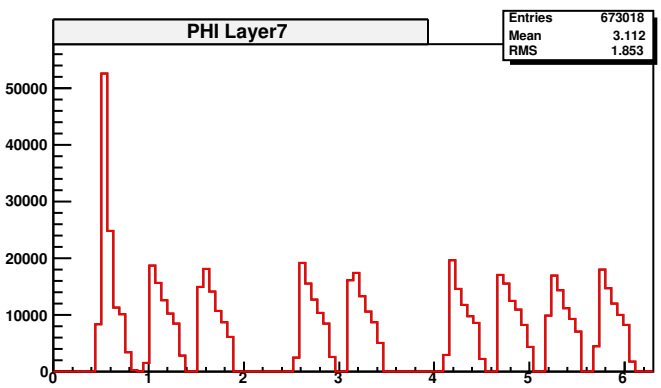


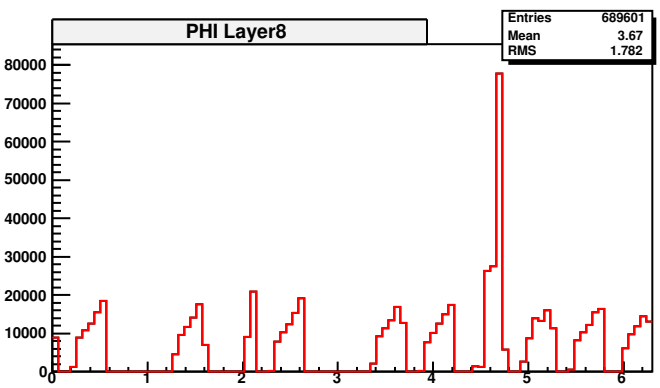




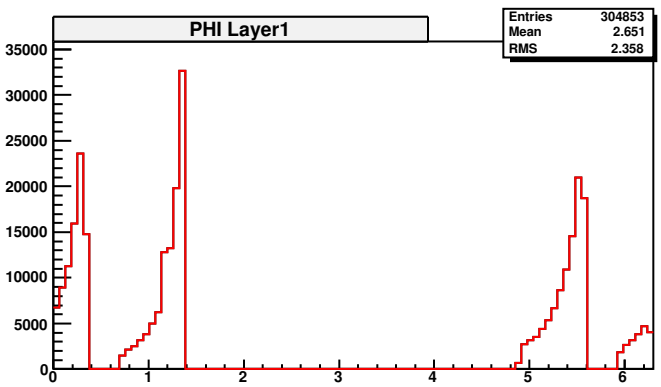


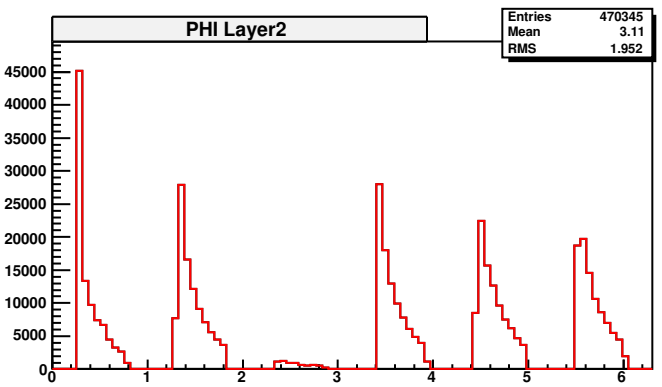


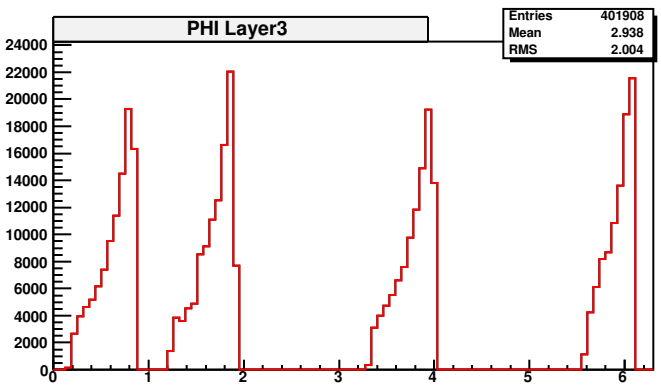


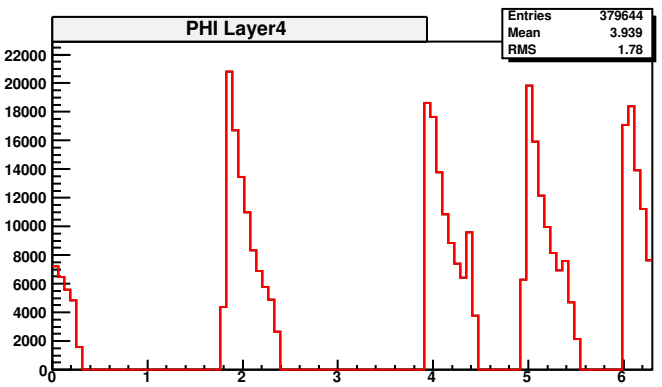


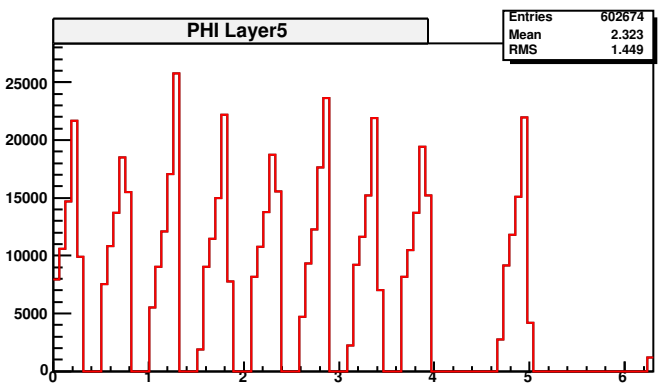
SmtClusters (ClustrBar3)

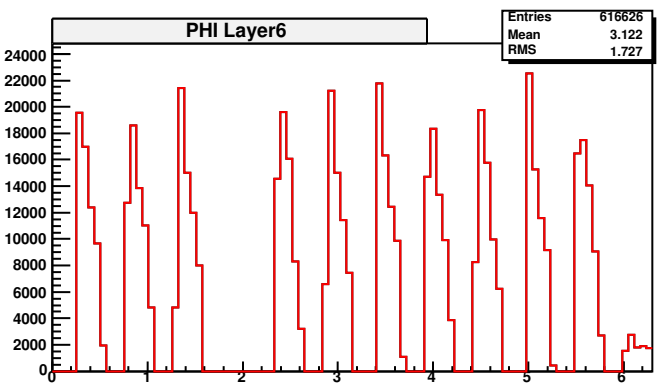


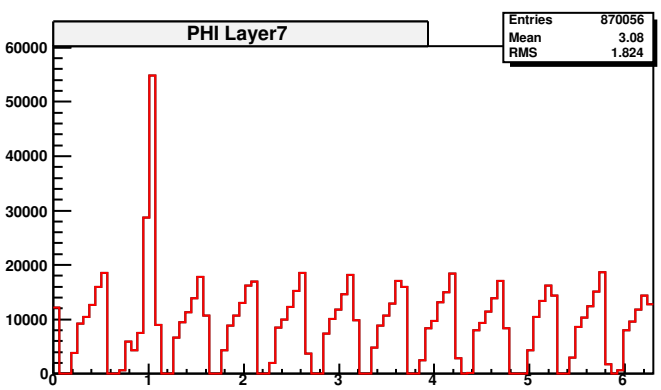


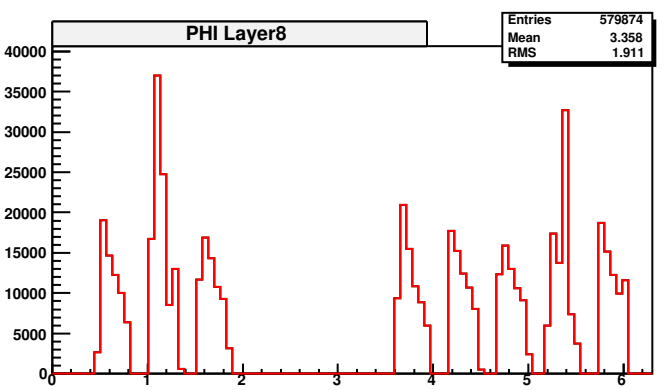




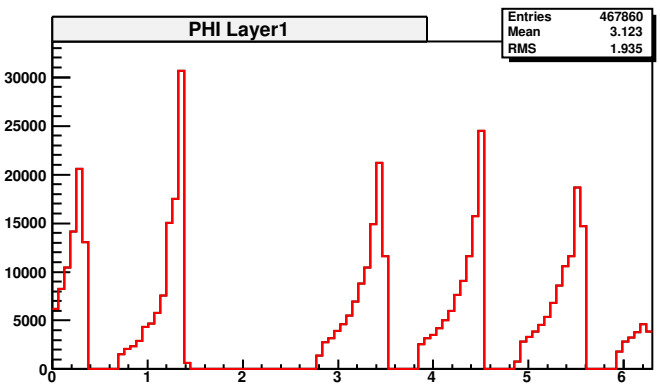


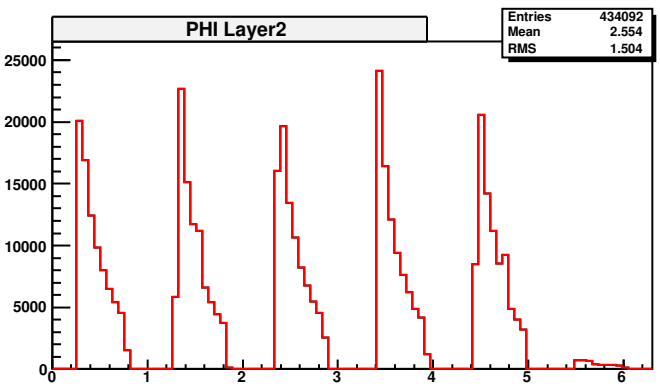


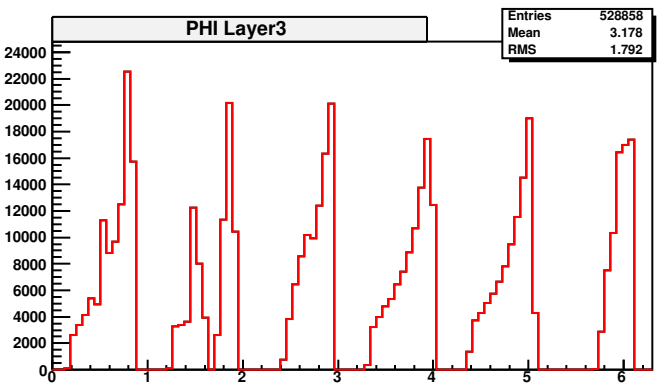


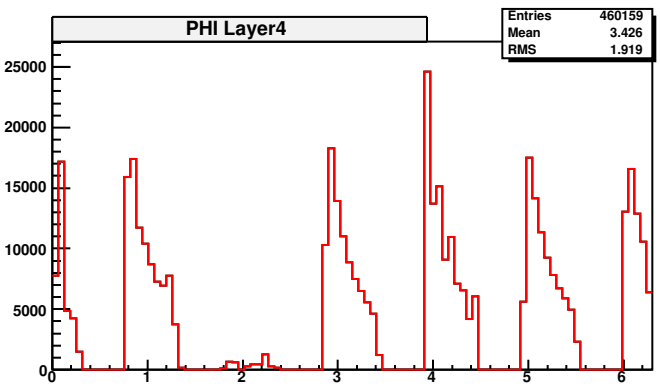


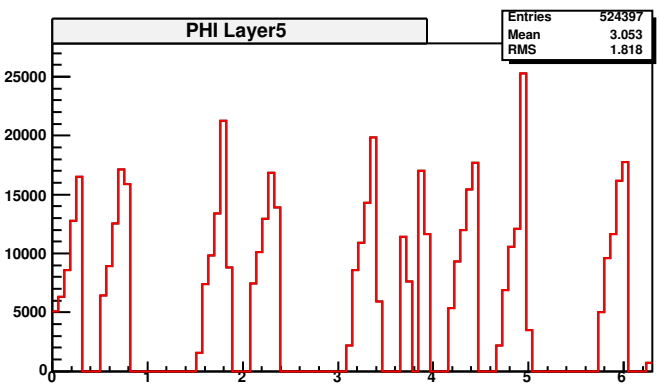
SmtClusters (ClustrBar4)

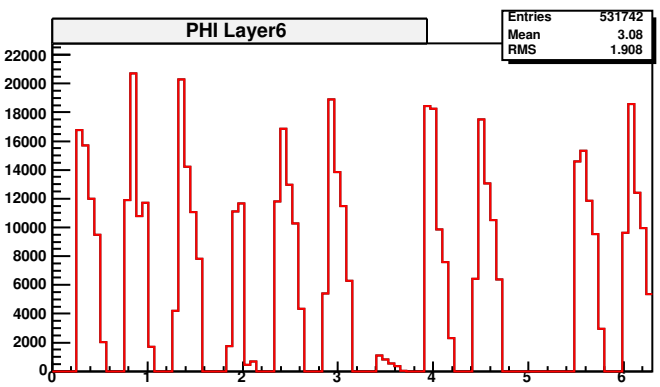


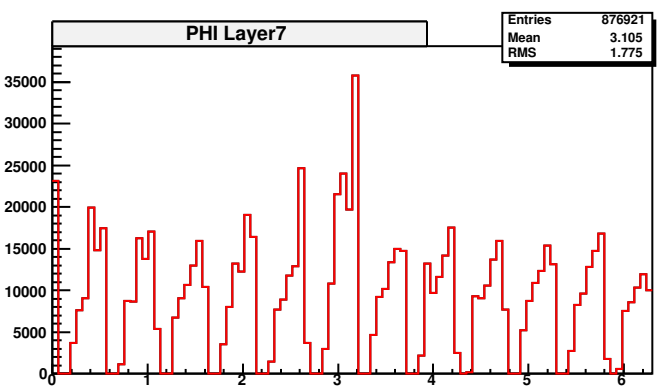


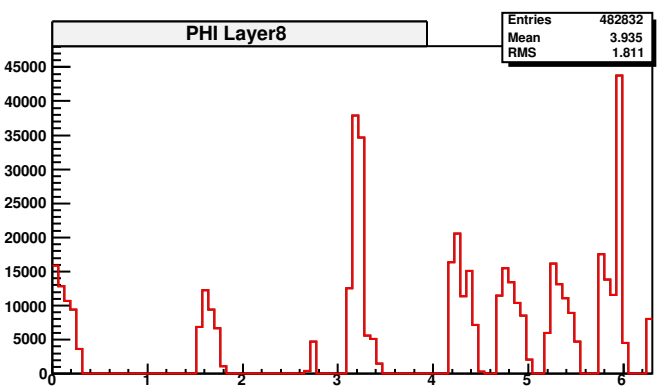




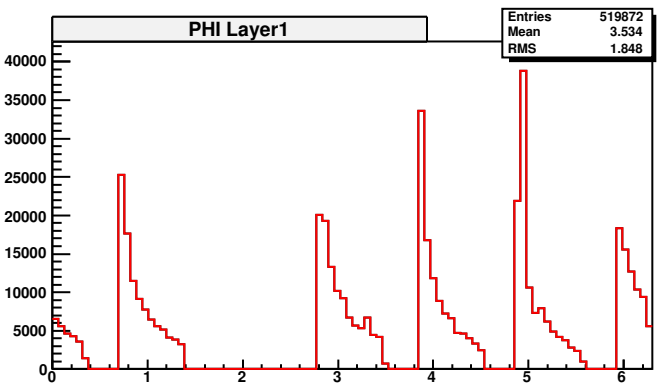


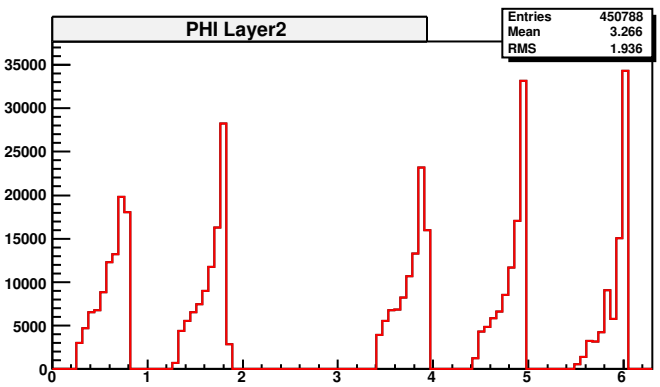


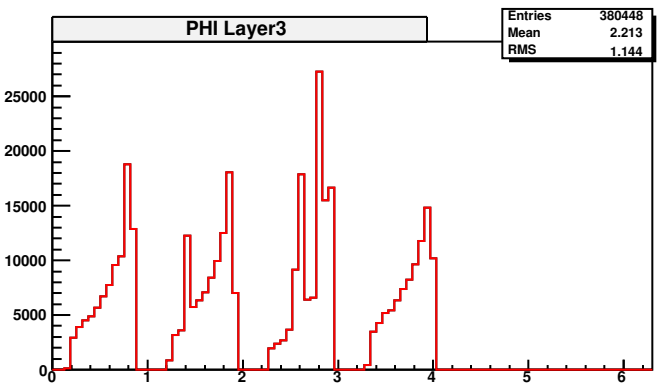


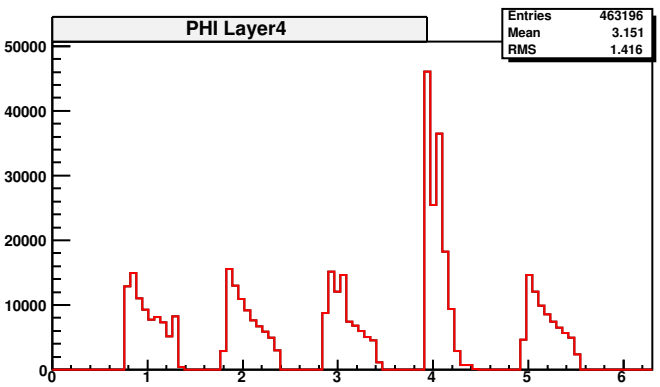


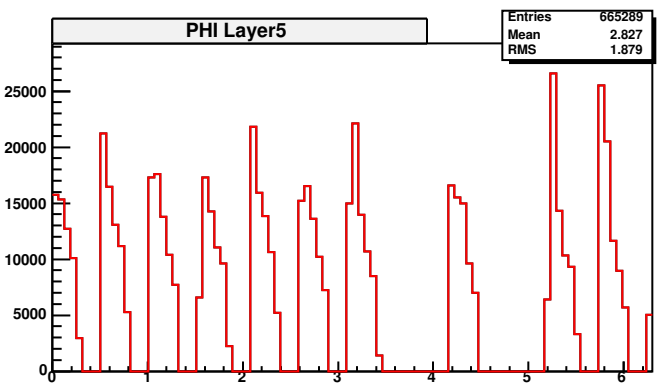
SmtClusters (ClustrBar5)

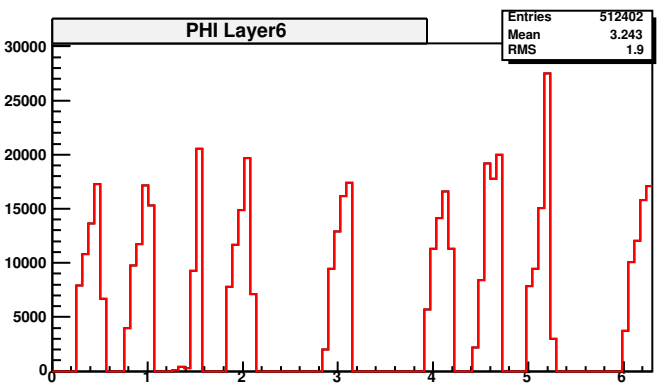


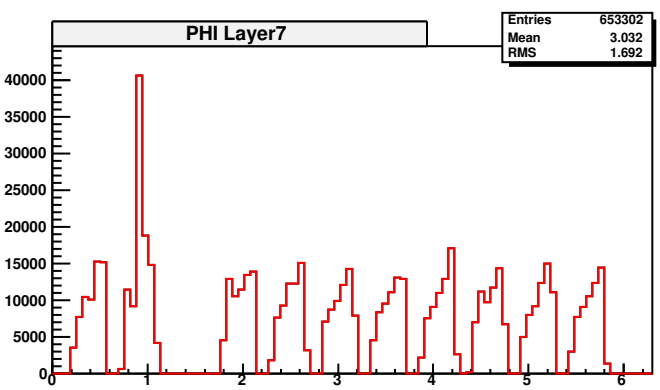


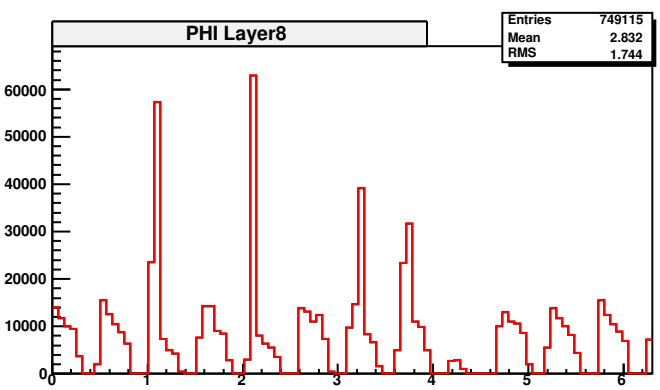




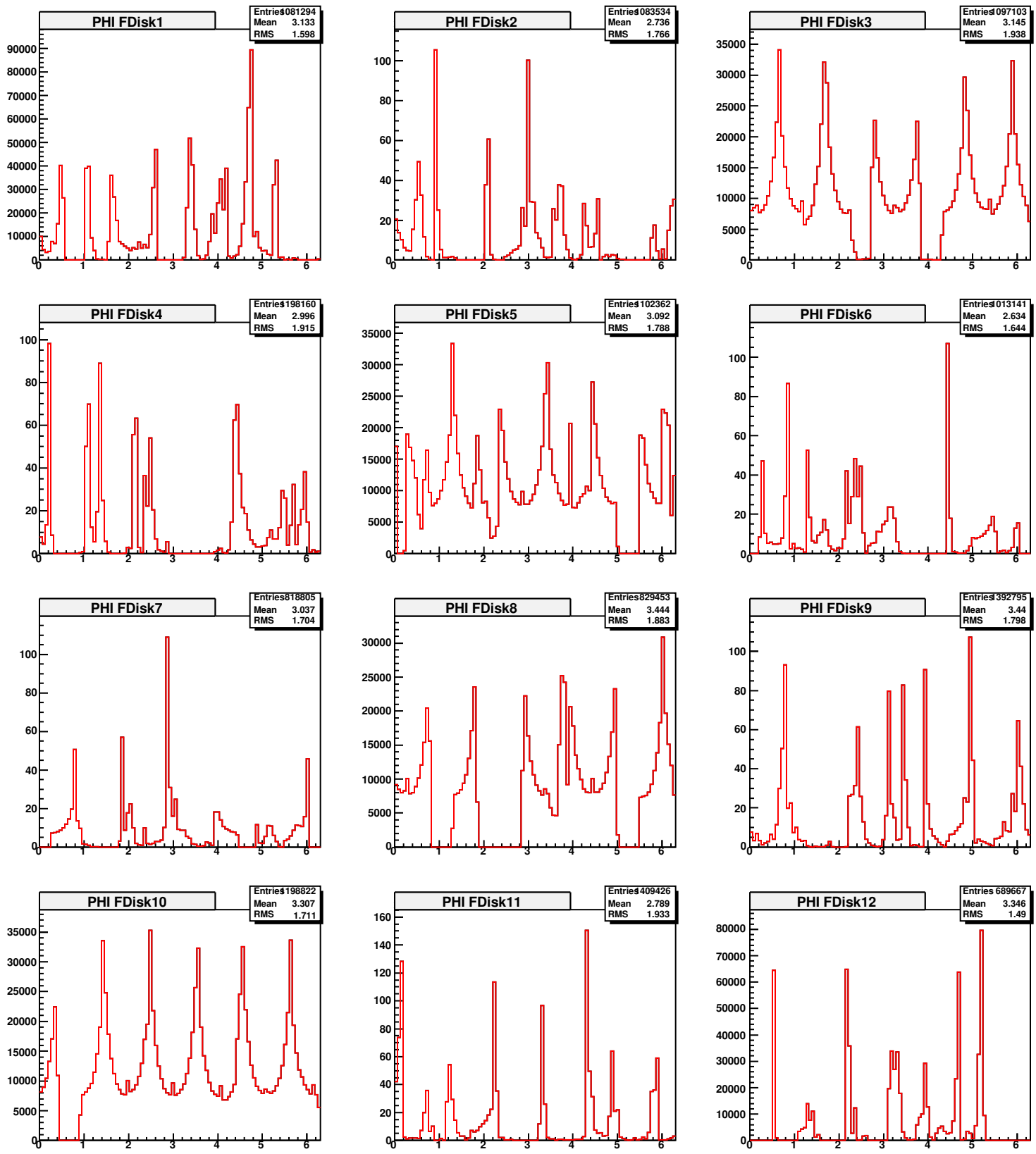




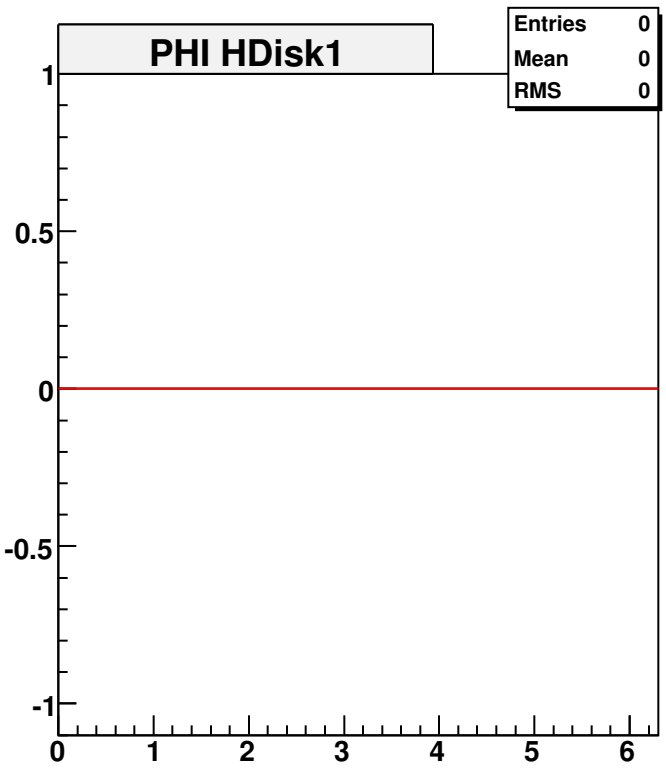


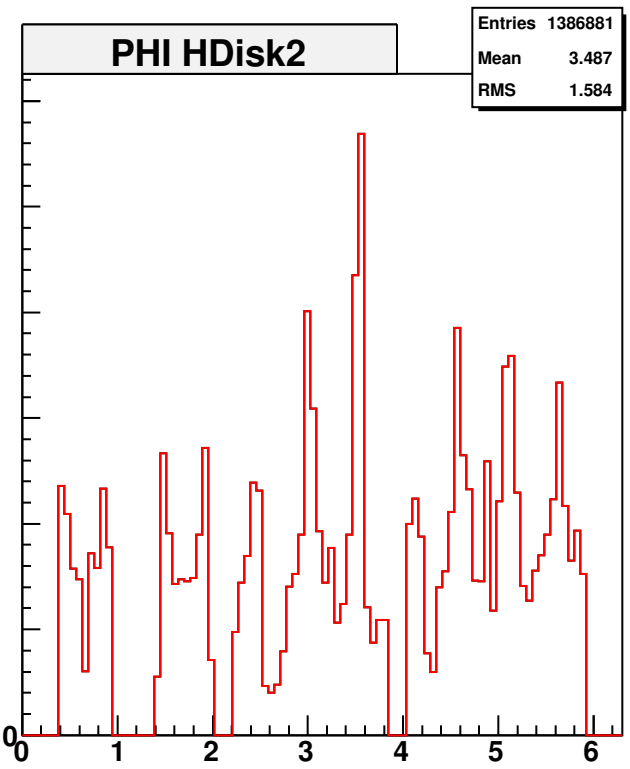


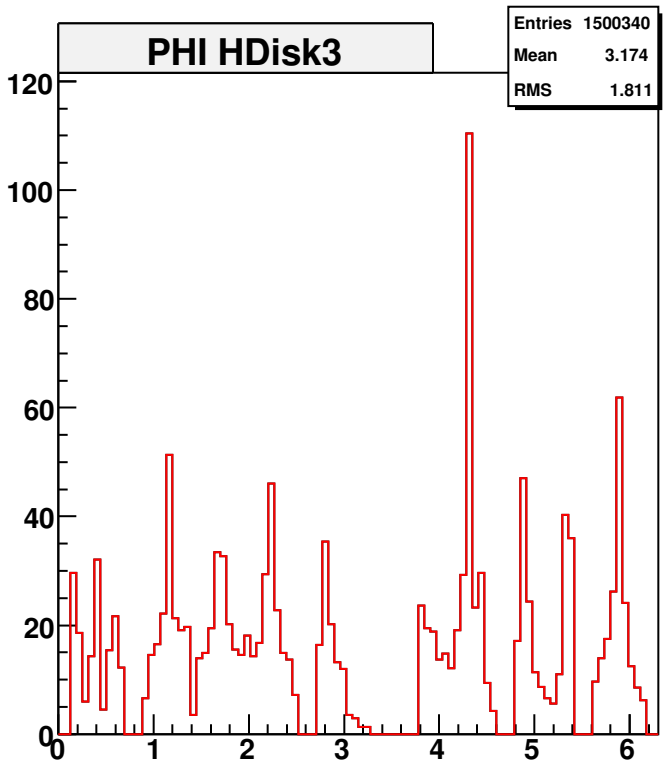
SmtClusters (ClustrBar6)

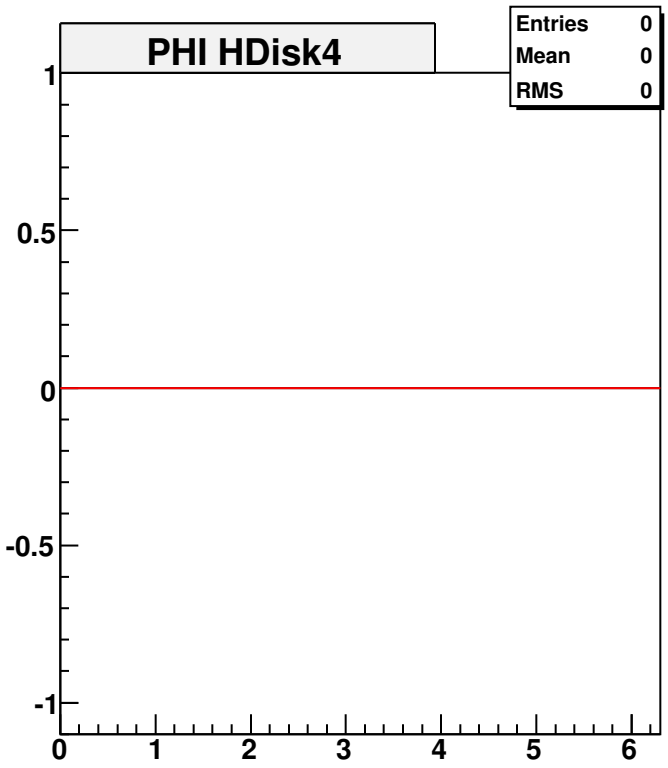


SmtClusters (FDiskClusters)

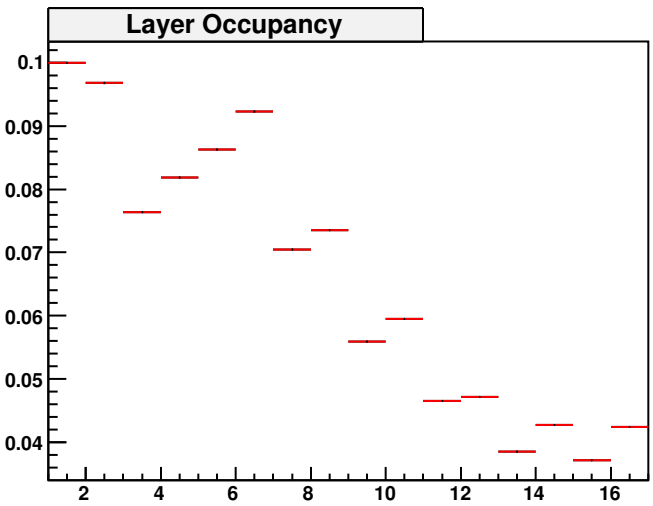


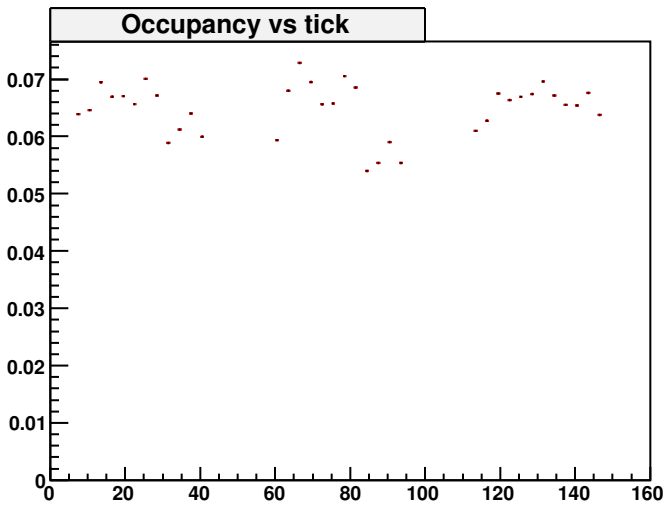


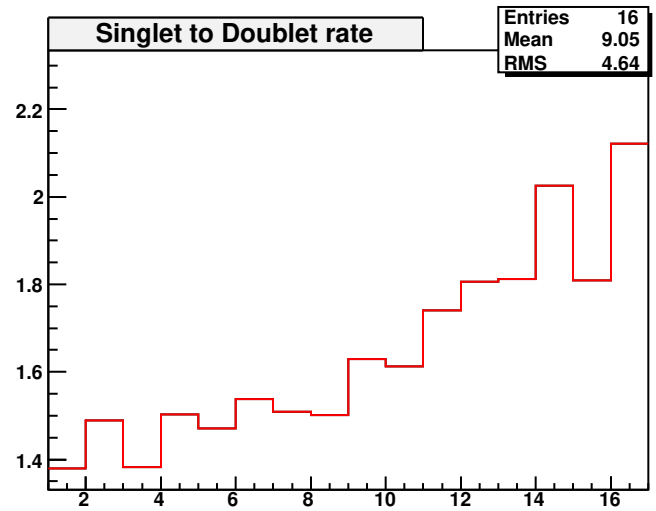


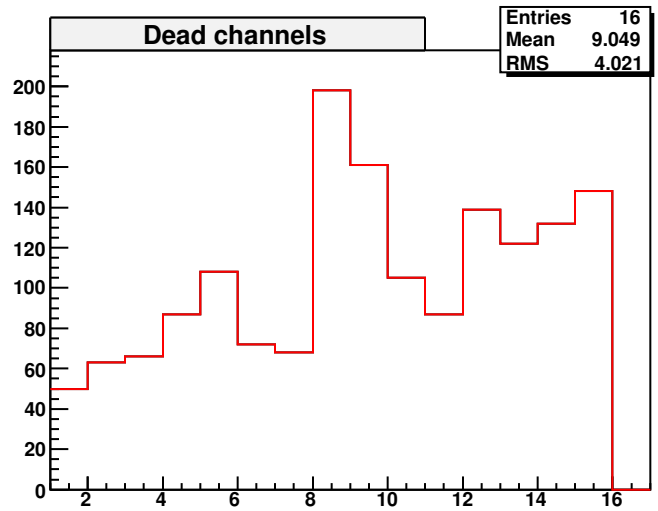


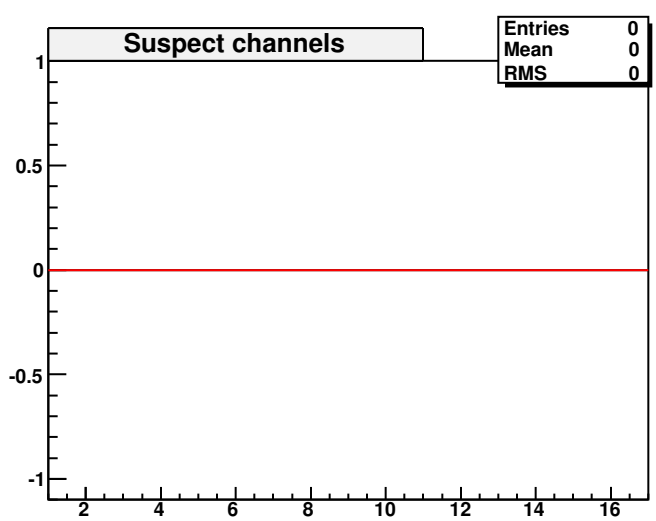
SmtClusters (HDiskClusters)

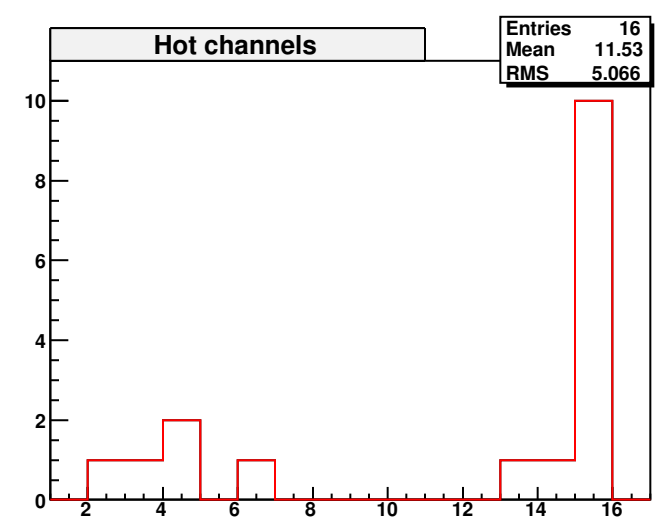




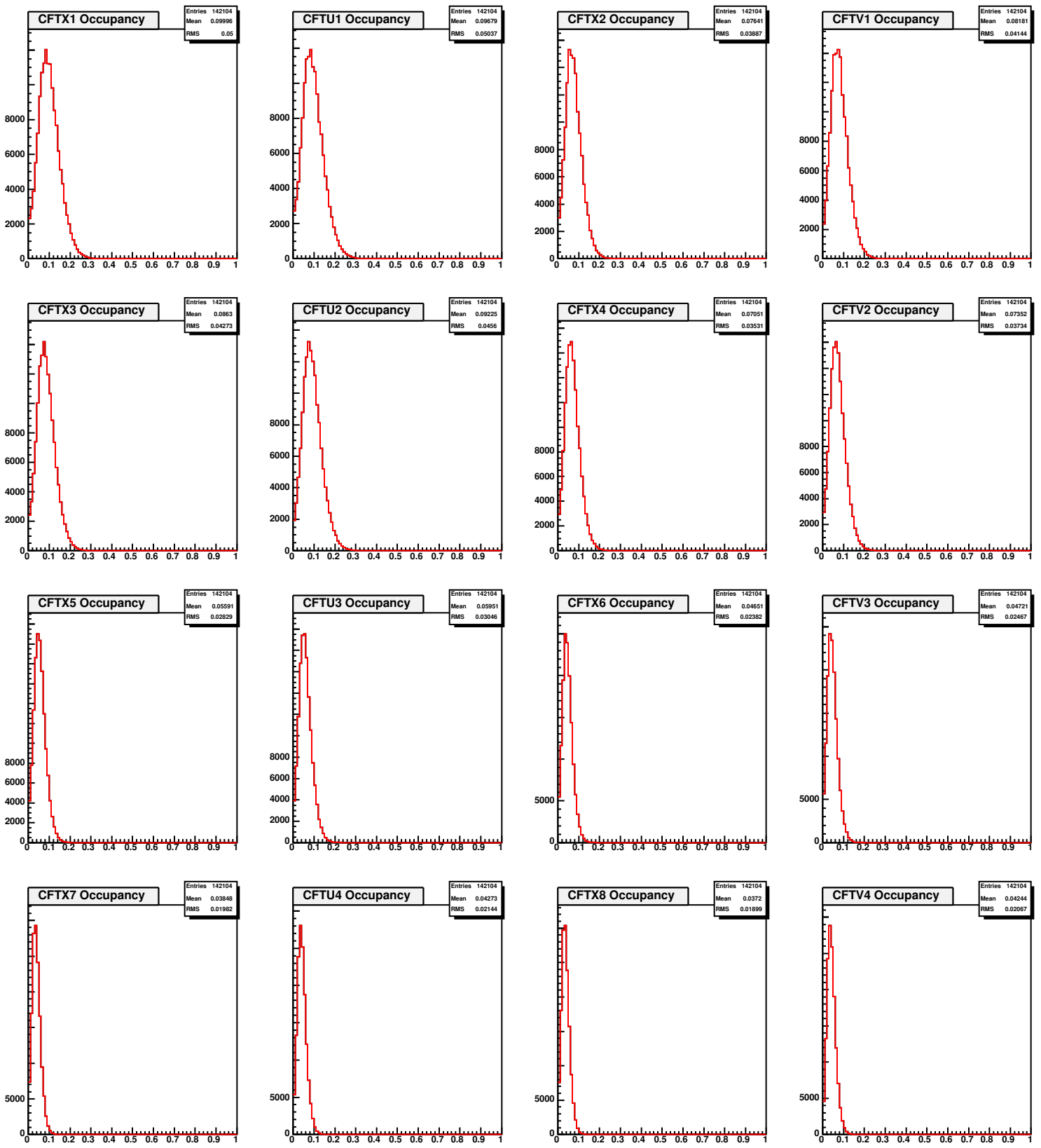




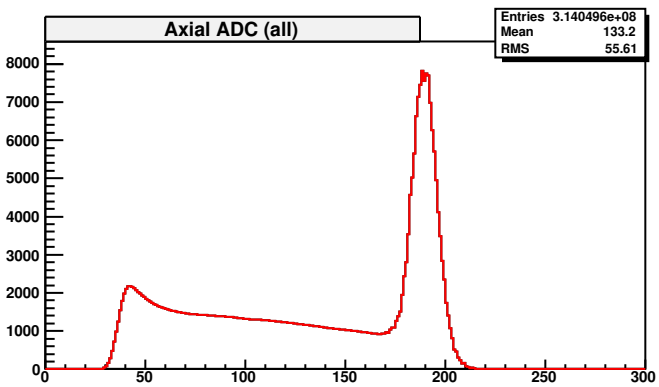


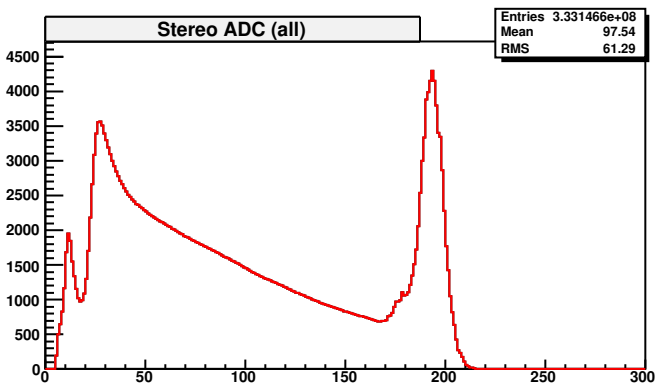


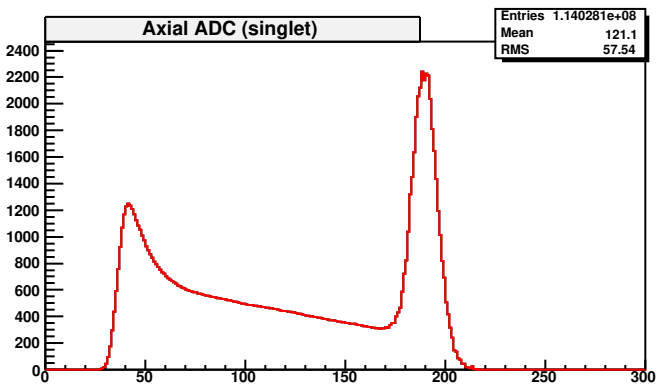
CFT Summary (All Clusters)

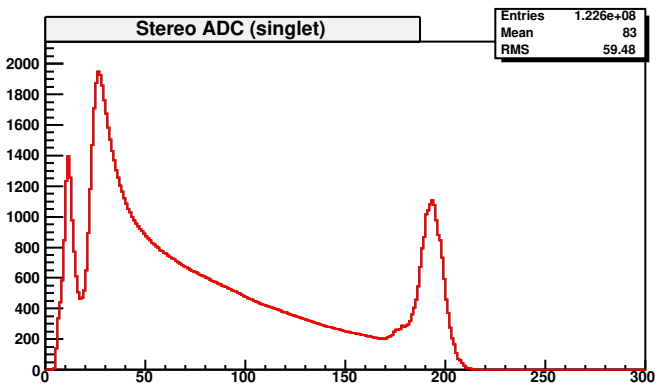


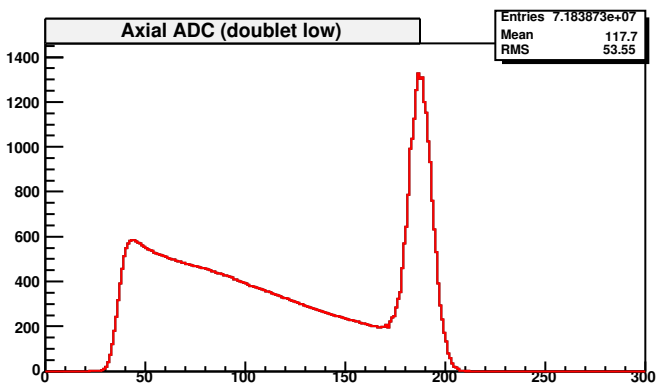
CFT Occupancy (All Clusters)

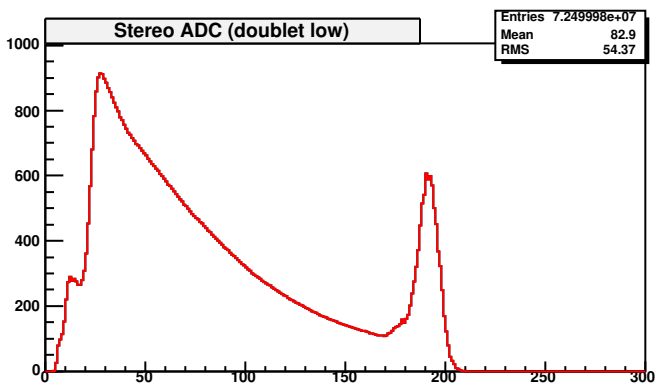


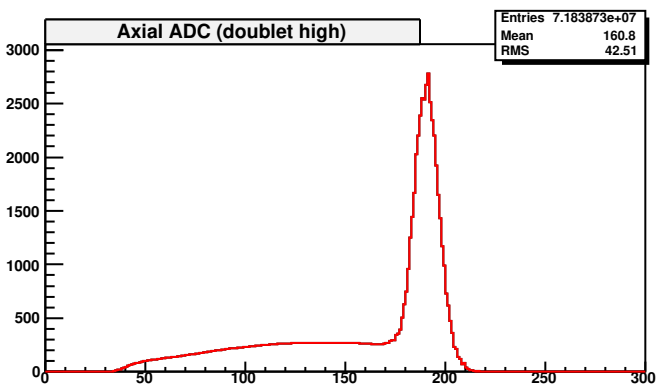


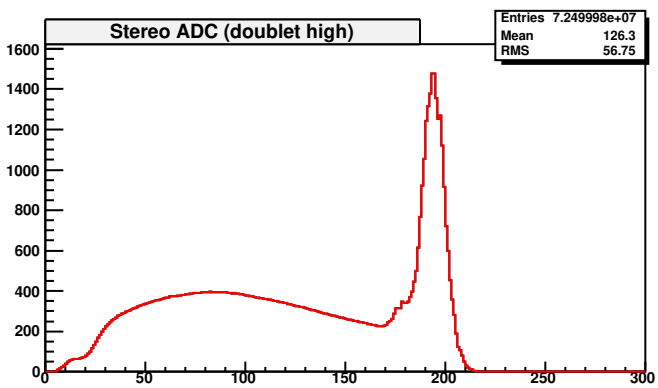




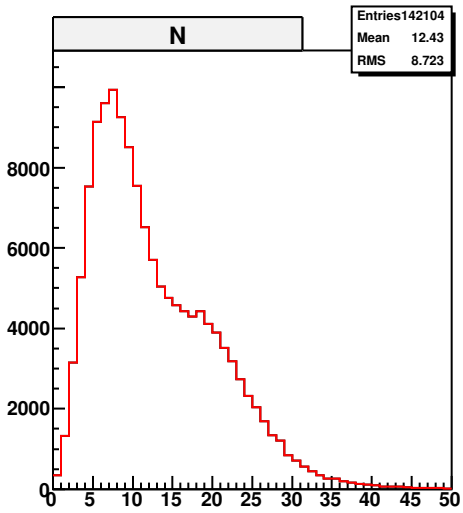


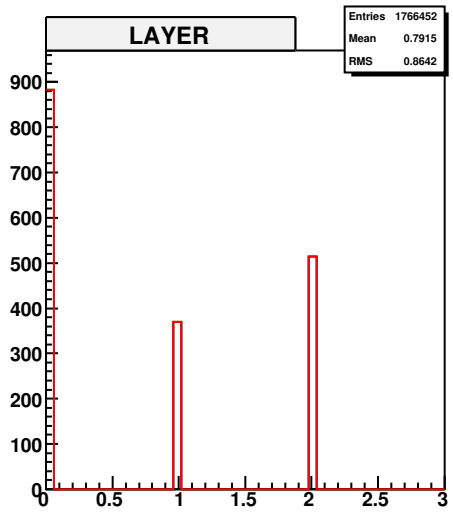


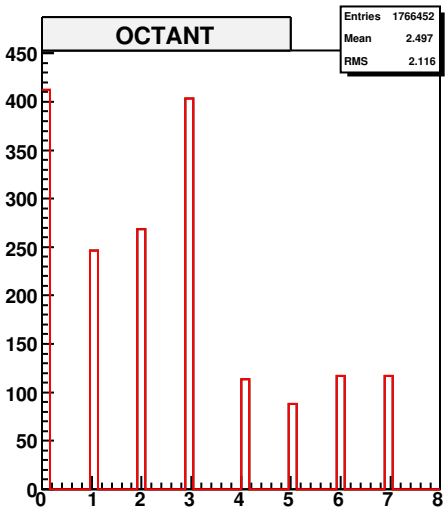


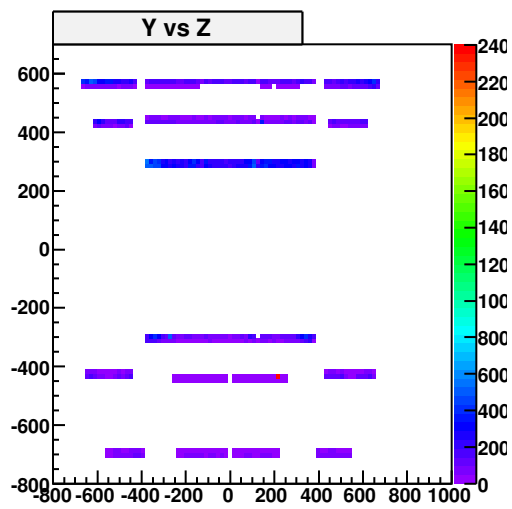


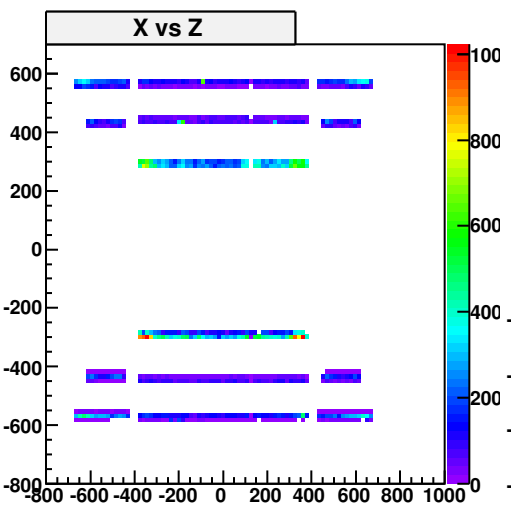
CFT ADC Summary (All Clusters)

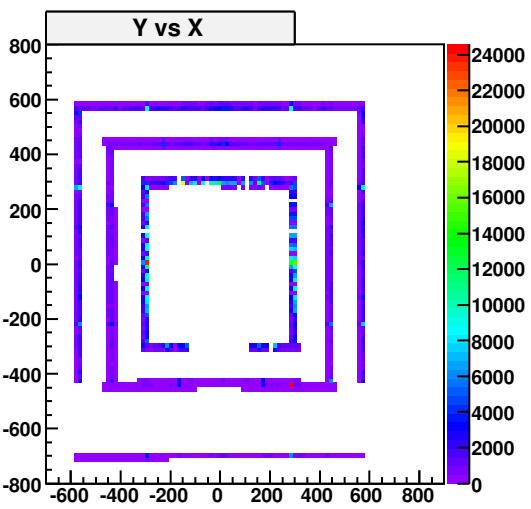

N
Entries 142104
Mean 12.43
RMS 8.723

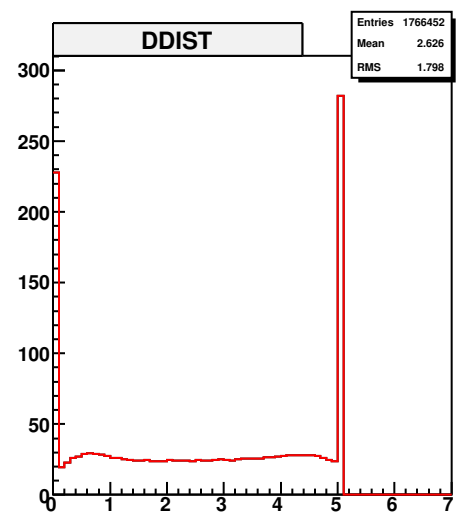

LAYER
Entries 1766452
Mean 0.7915
RMS 0.8642

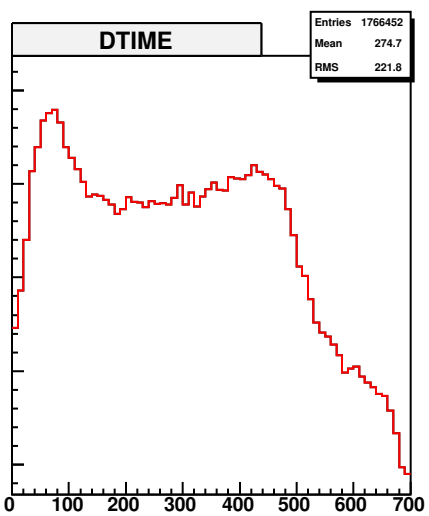

OCTANT
Entries 1766452
Mean 2.497
RMS 2.116


Y vs Z

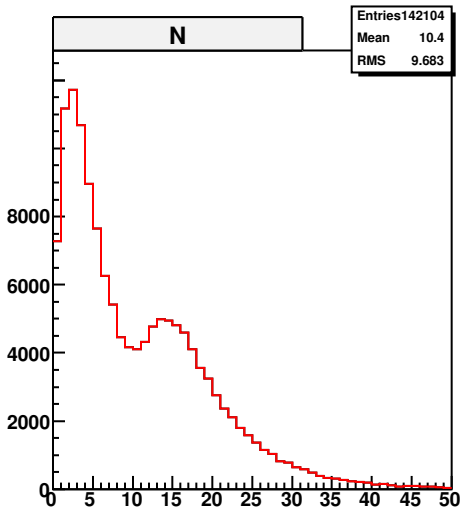

X vs Z

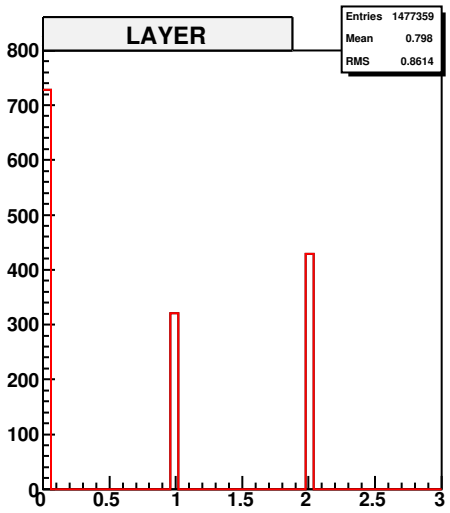

Y vs X

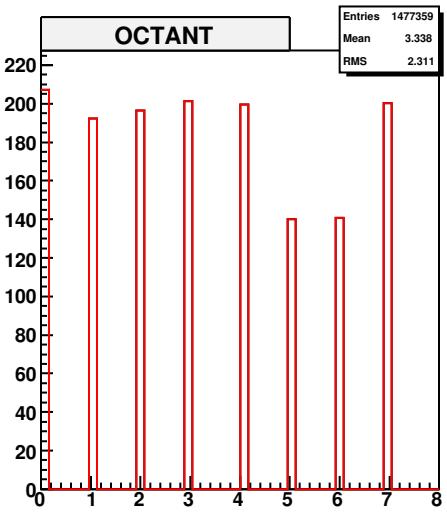

DDIST
Entries 1766452
Mean 2.626
RMS 1.798

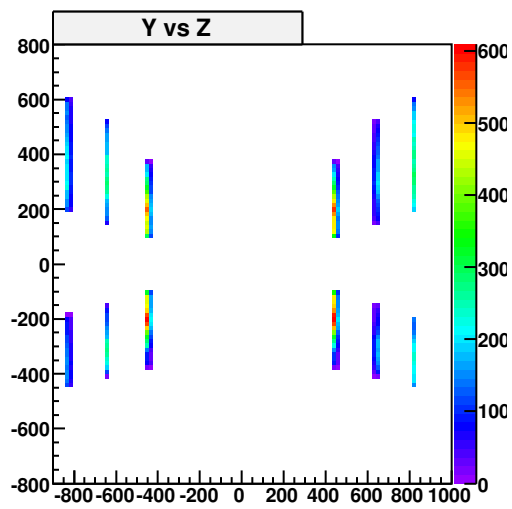

DTIME
Entries 1766452
Mean 274.7
RMS 221.8

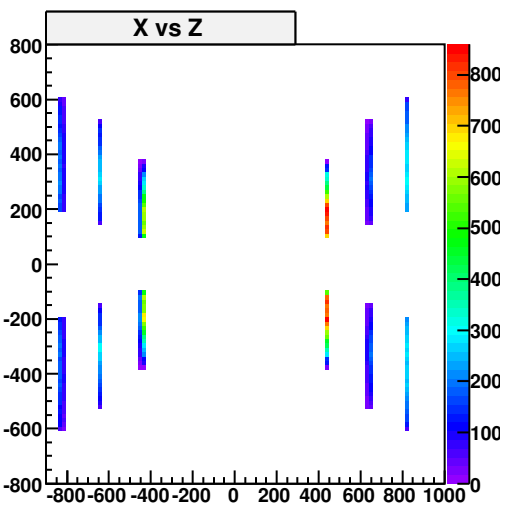
MuonPDT (All)

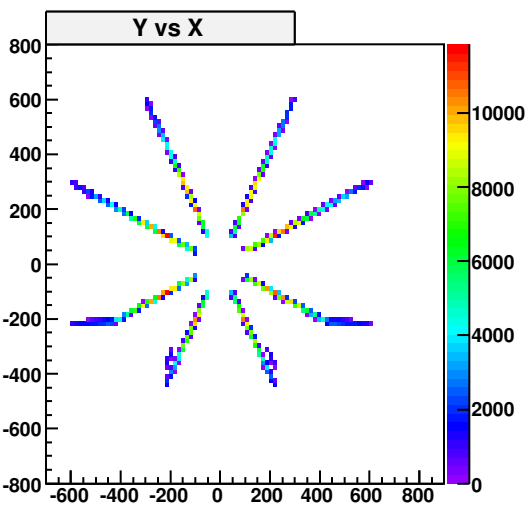

N
Entries 142104
Mean 10.4
RMS 9.683

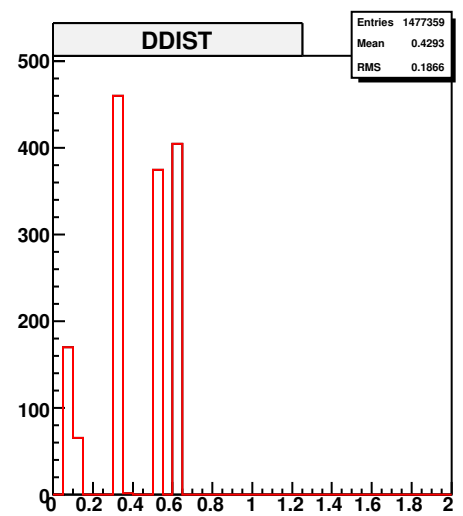

LAYER
Entries 1477359
Mean 0.798
RMS 0.8614

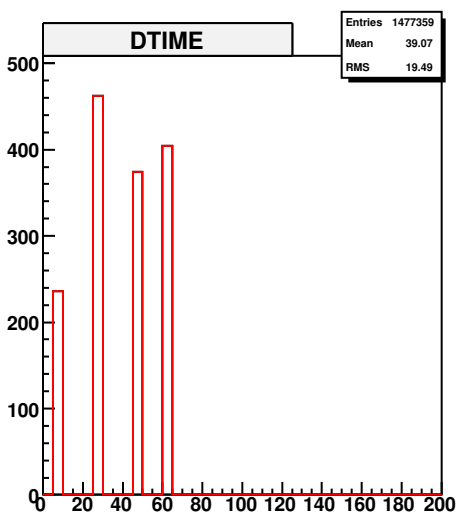

OCTANT
Entries 1477359
Mean 3.338
RMS 2.311


Y vs Z

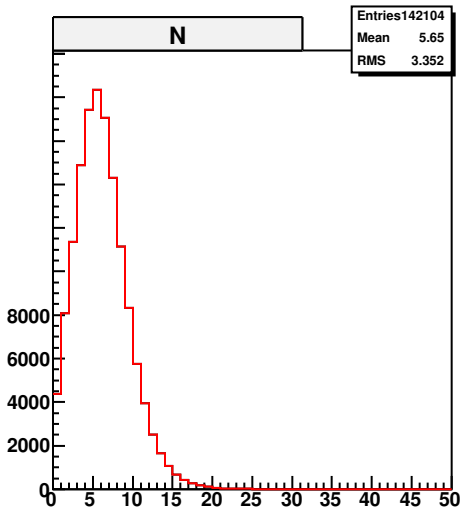

X vs Z

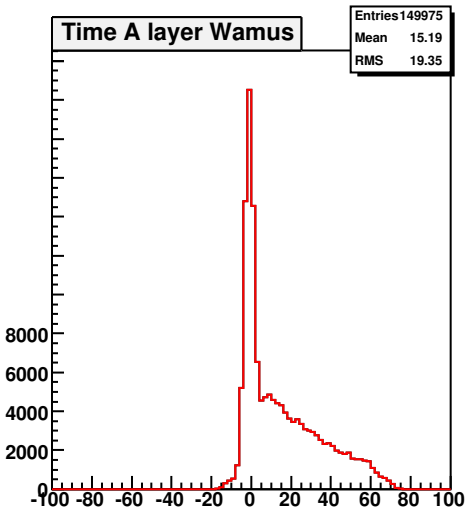

Y vs X

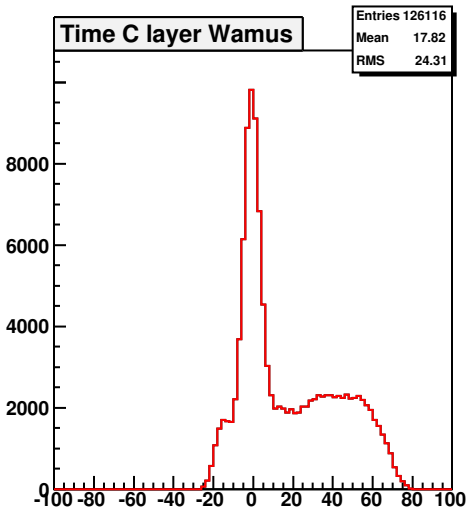

DDIST
Entries 1477359
Mean 0.4293
RMS 0.1866

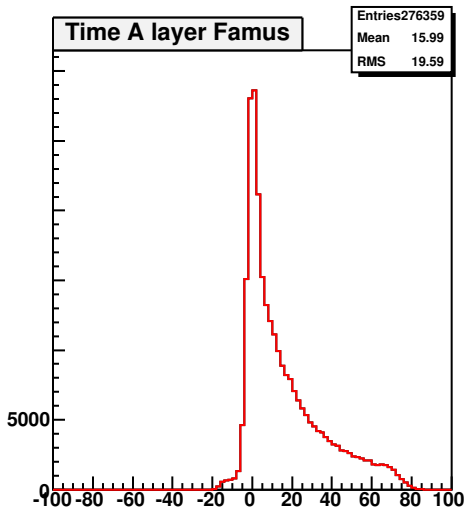

DTIME
Entries 1477359
Mean 39.07
RMS 19.49

MuonMDT (All)


N
Entries 142104
Mean 5.65
RMS 3.352


Time A layer Wamus
Entries 149975
Mean 15.19
RMS 19.35


Time C layer Wamus
Entries 126116
Mean 17.82
RMS 24.31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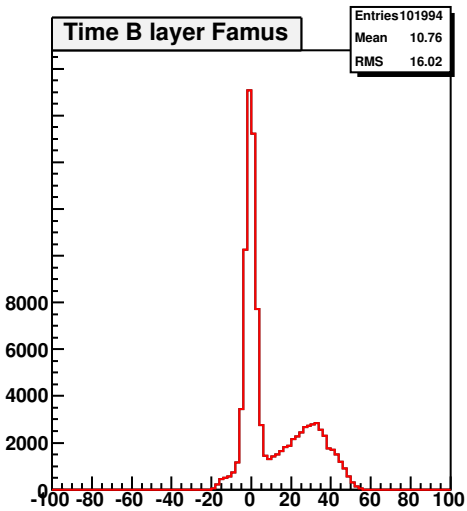
RMS 19.59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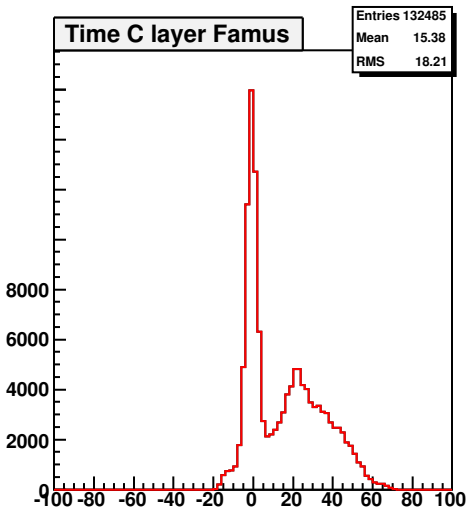
Mean 10.76
RMS 16.02


Time C layer Famus
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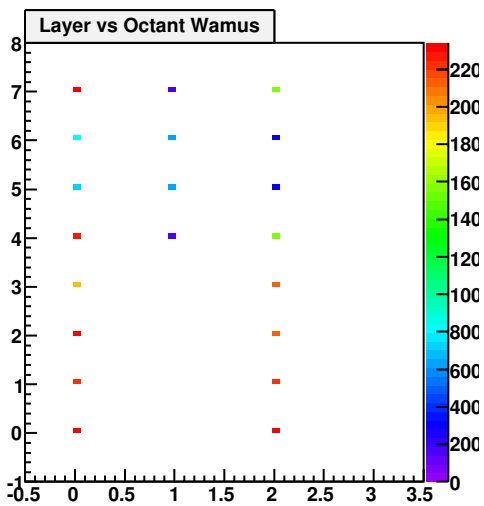
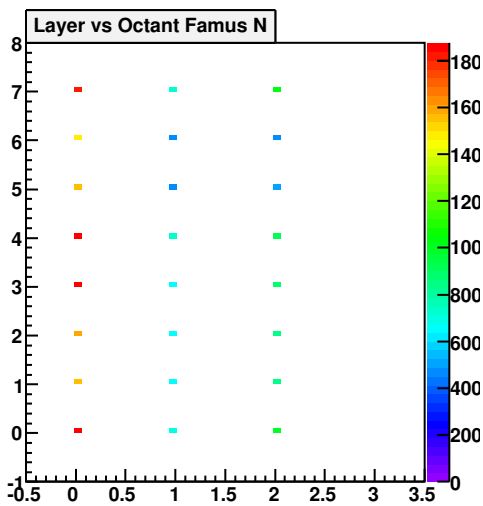
Mean 15.38
RMS 18.21


Layer vs Octant Wamus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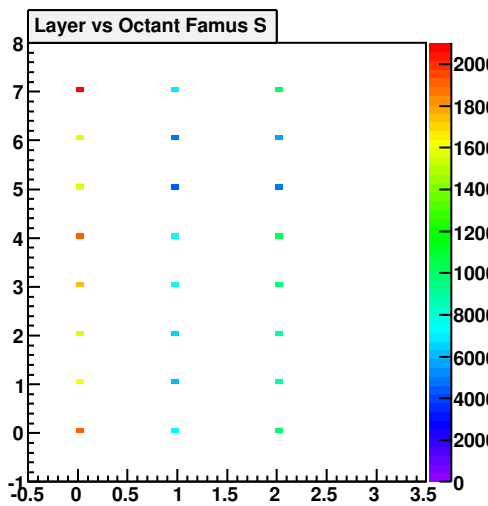
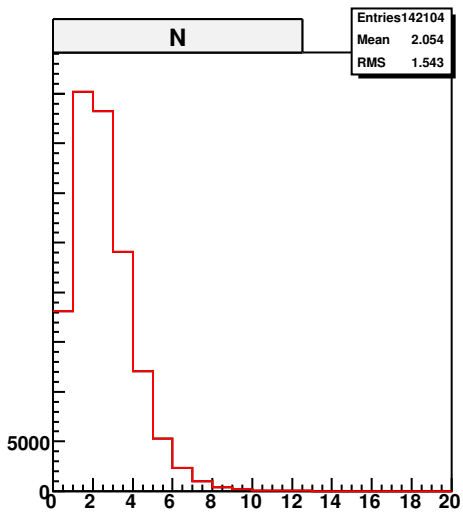
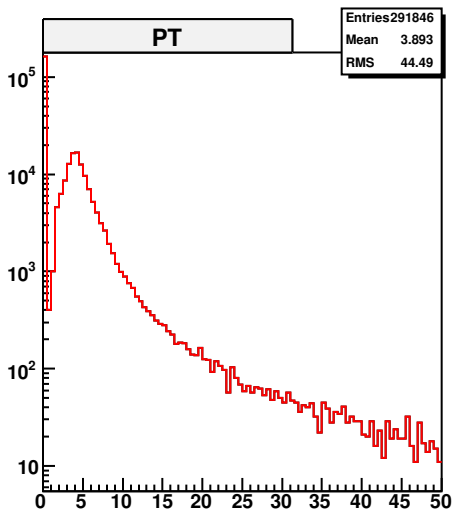
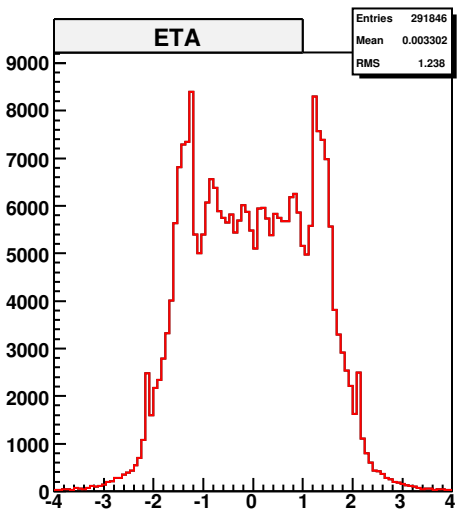
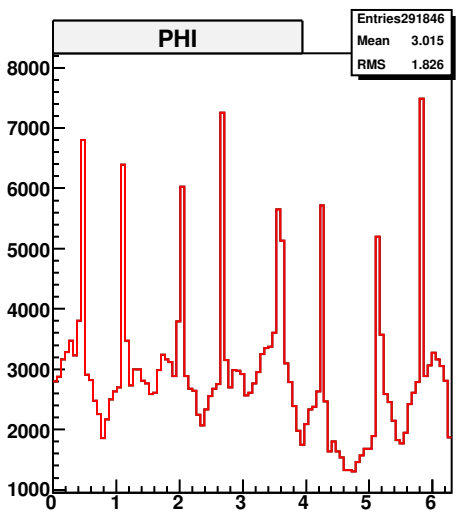

Layer vs Octant Famus S

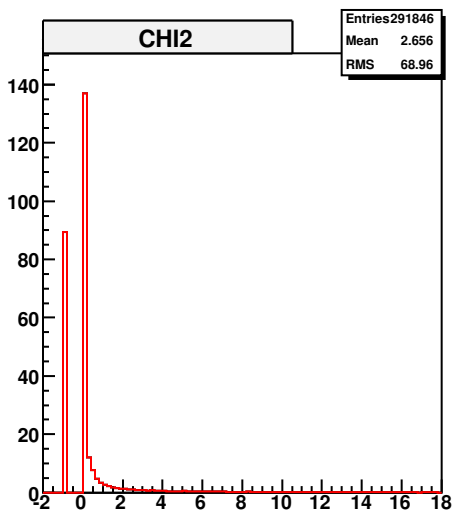
MuonMSC (All)

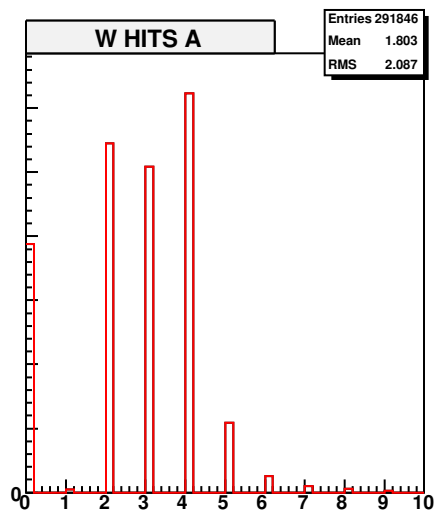


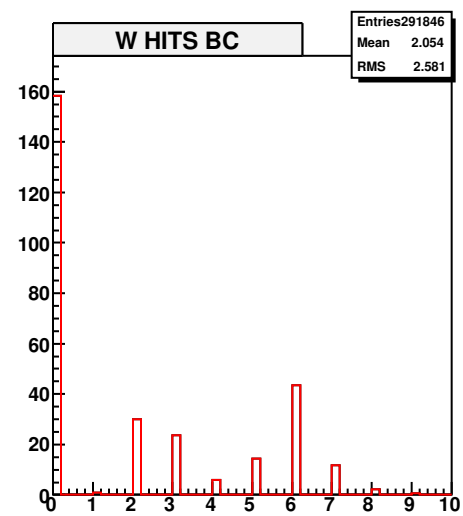


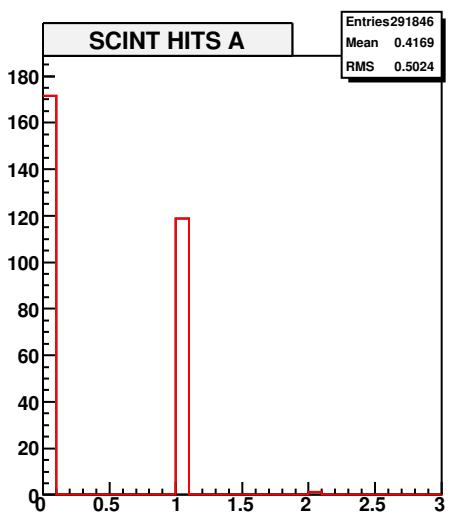


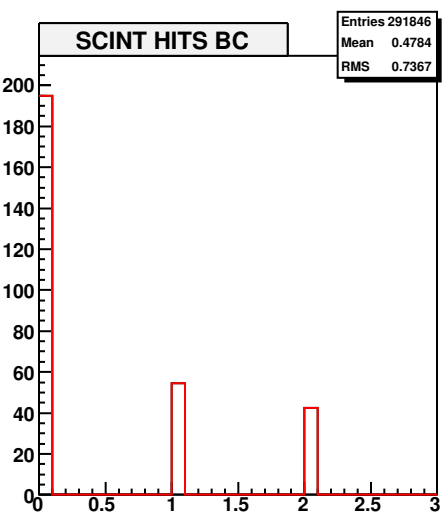




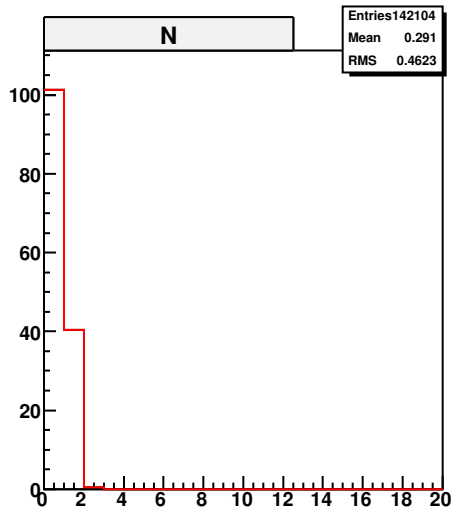


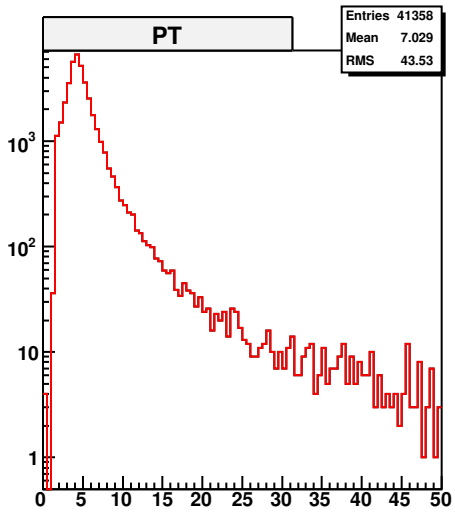


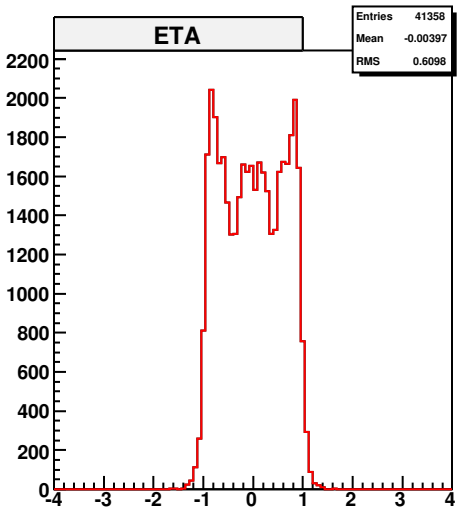


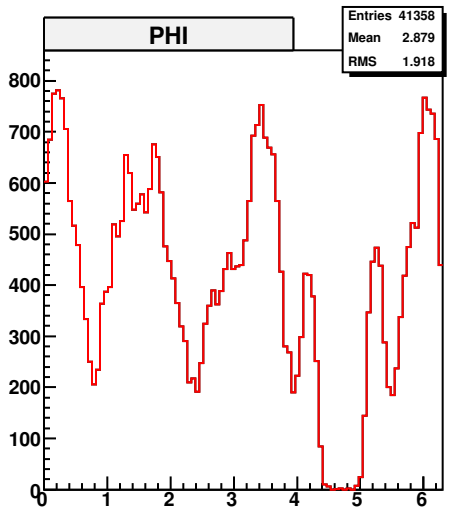


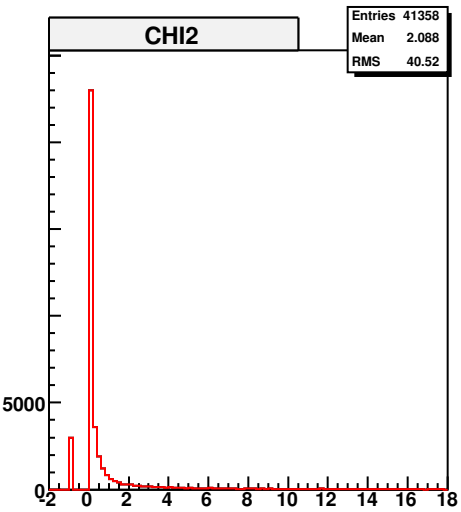
Muon Local Tracks (All)

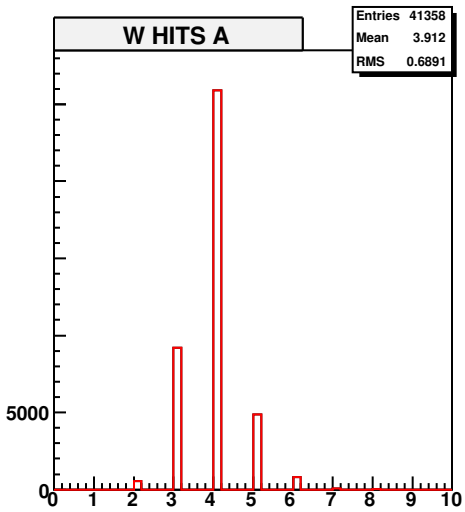


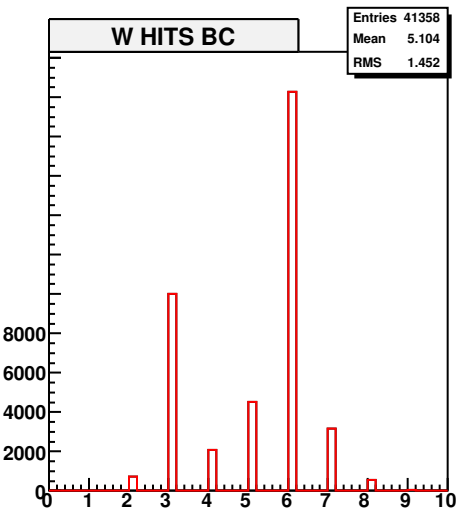


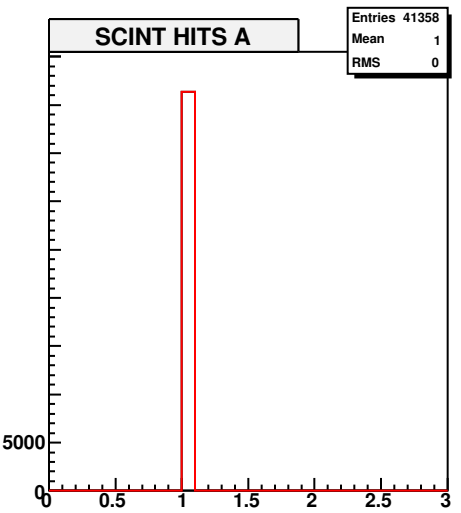


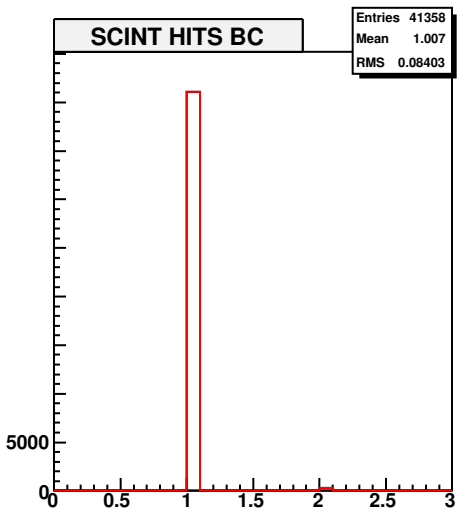




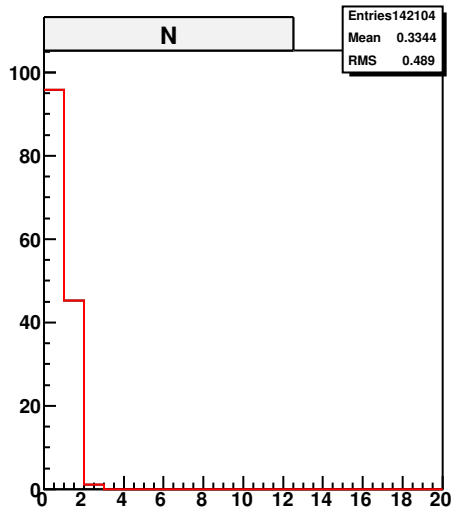


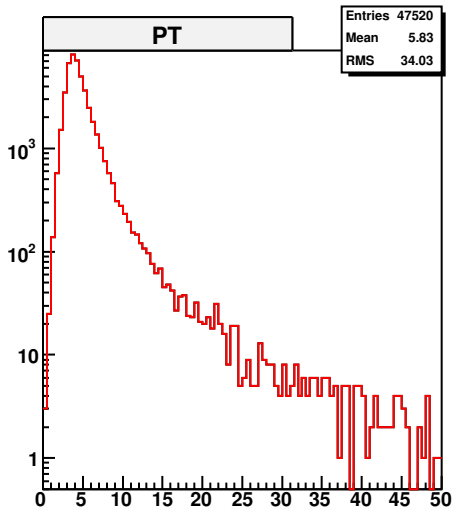


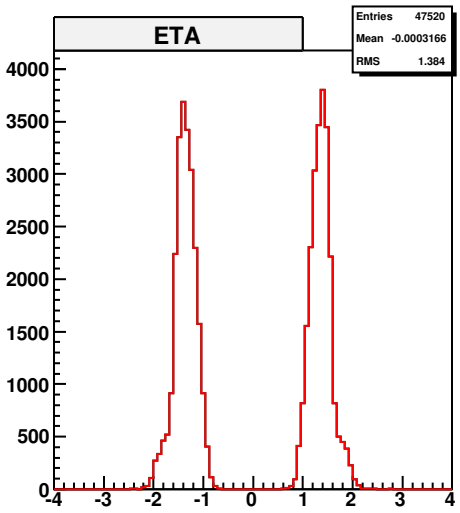


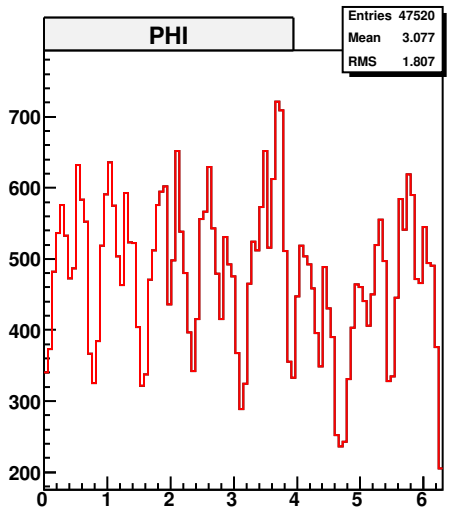


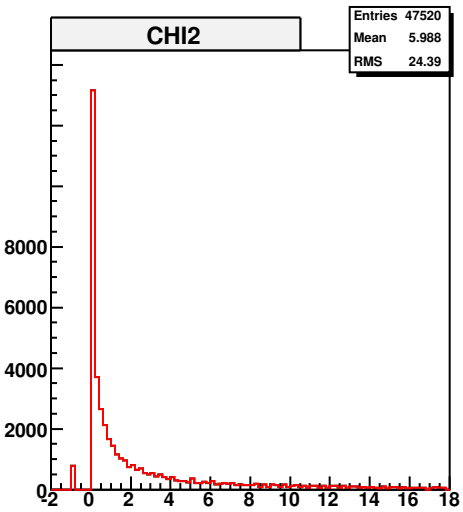
Muon Local Tracks (MediumWamus)

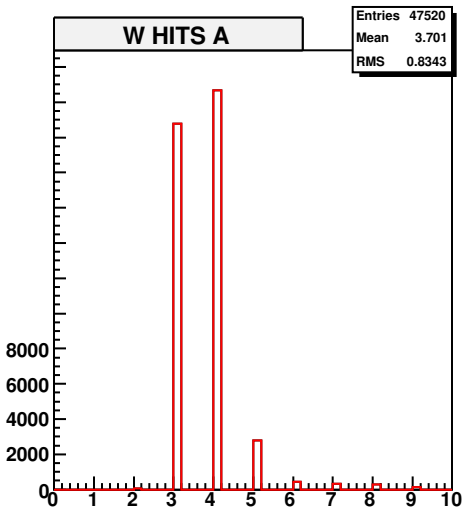


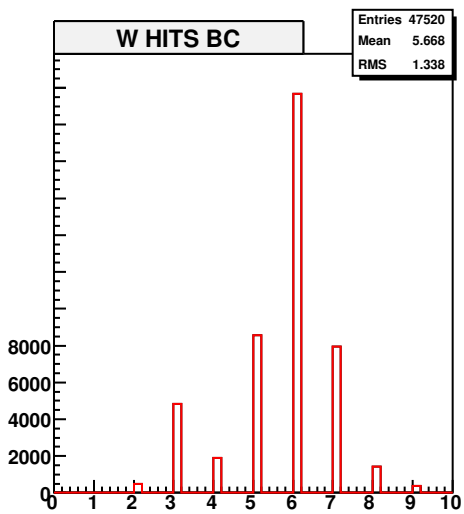


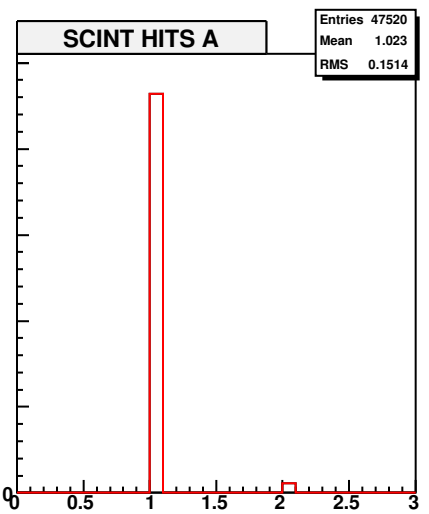


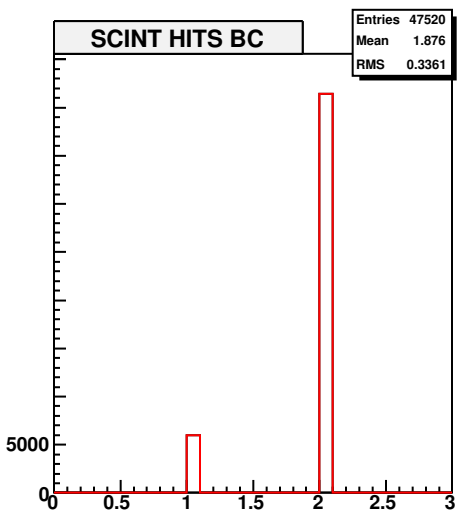












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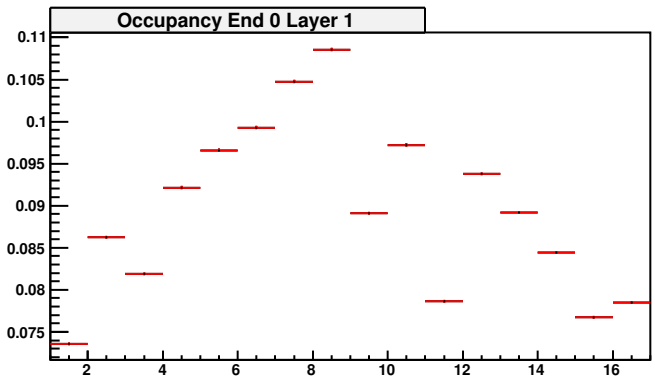
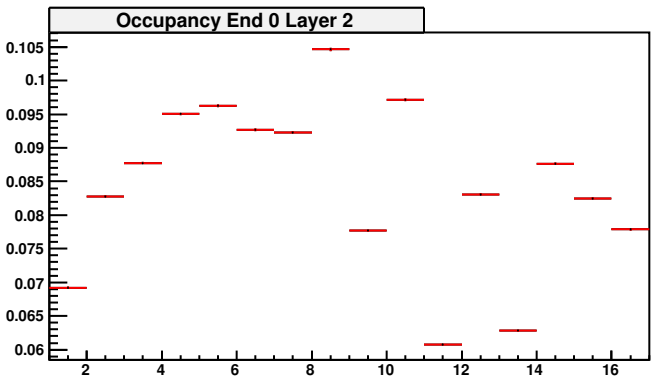
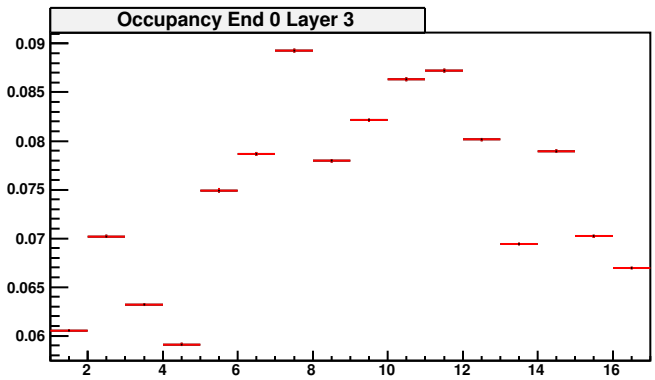
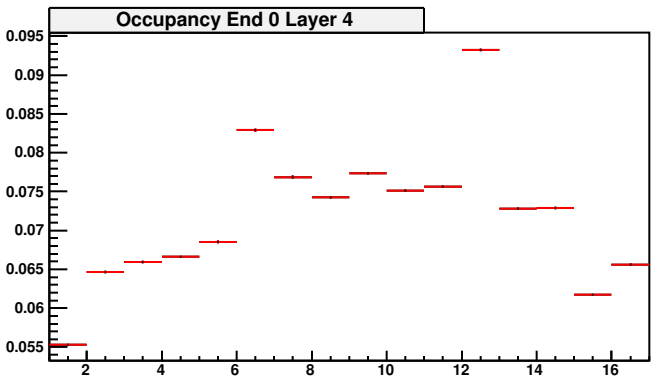
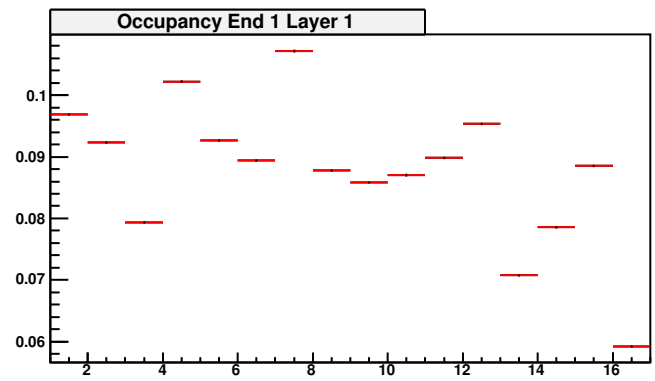
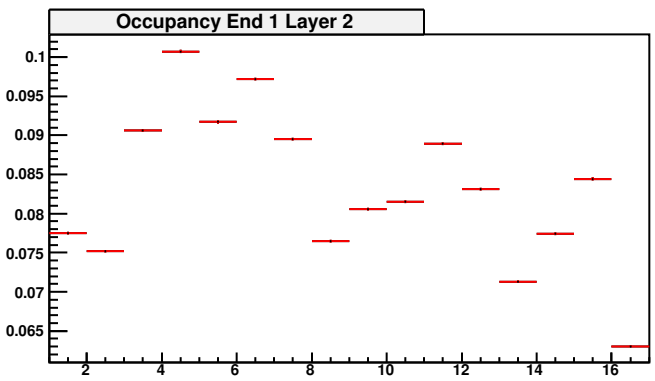


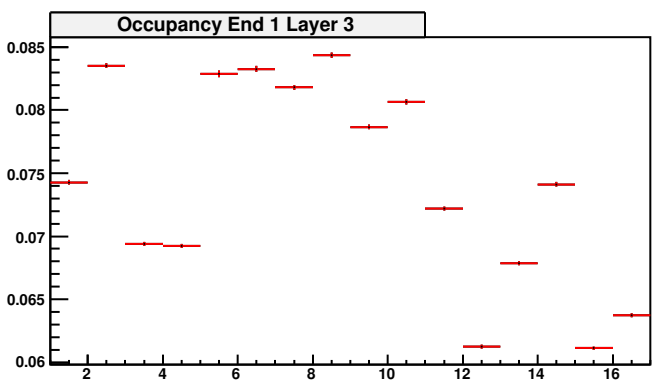


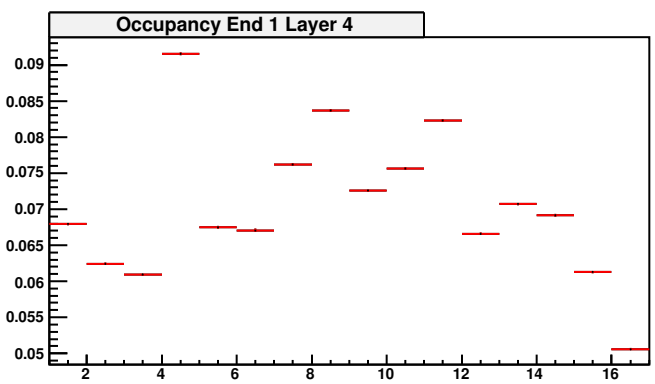




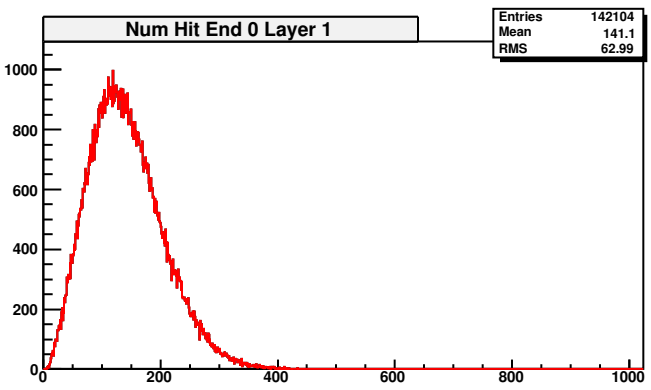


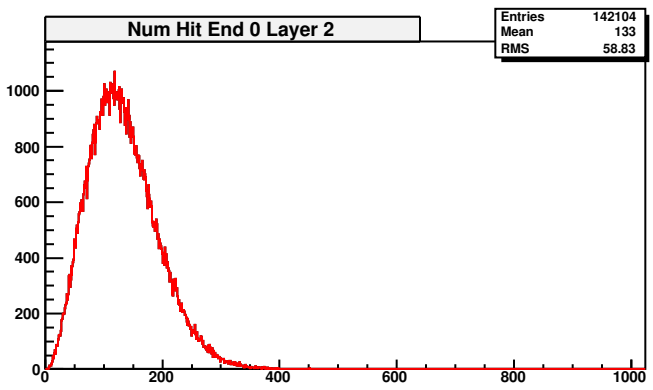


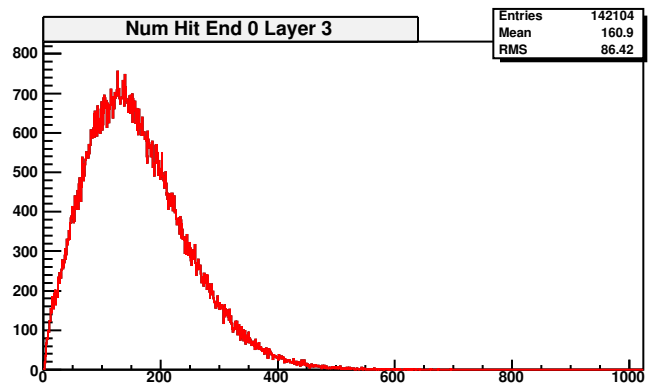


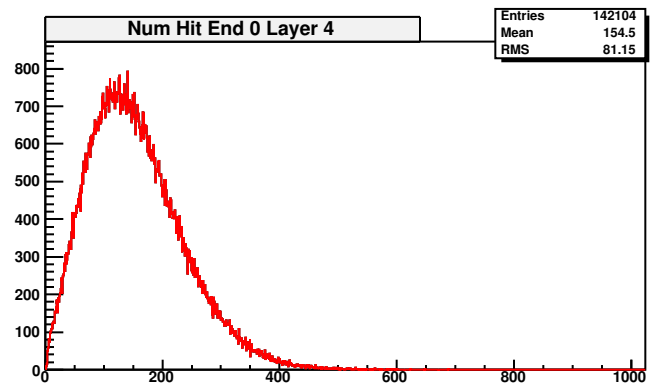


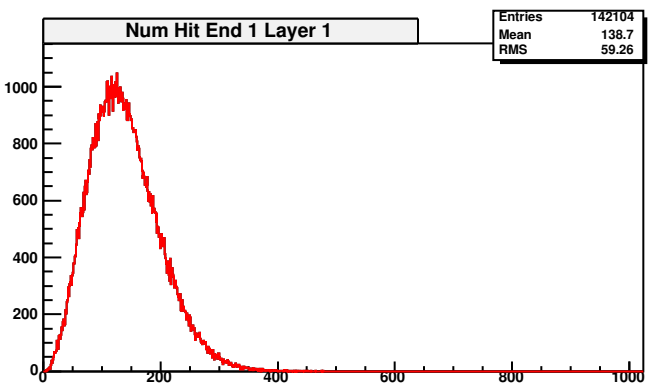
FPS Hit Occupancy (All)

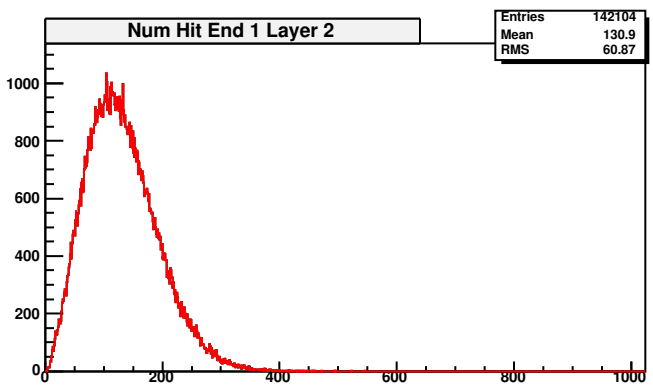


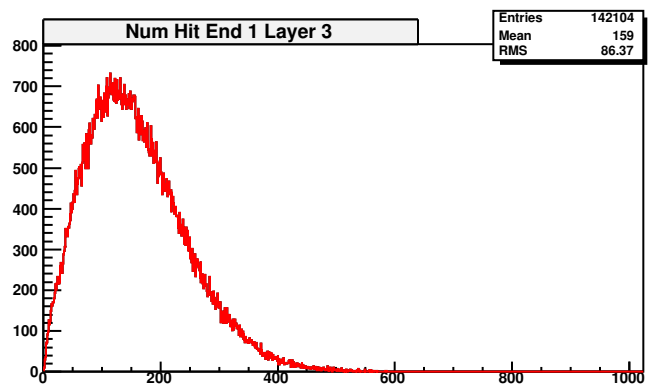


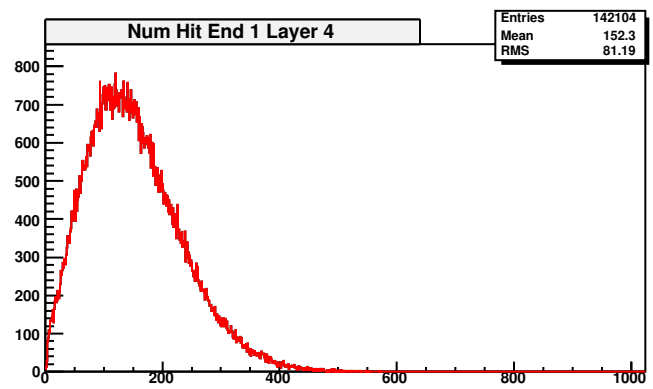




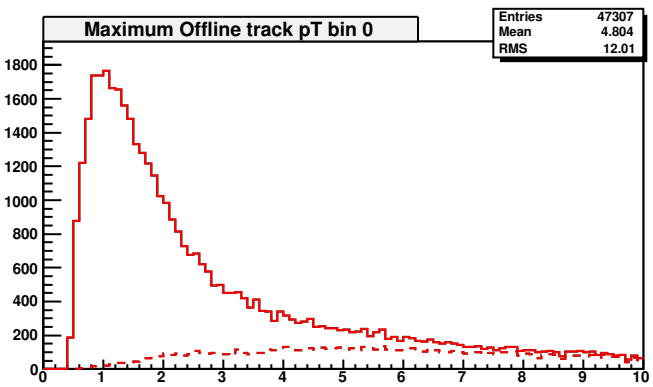


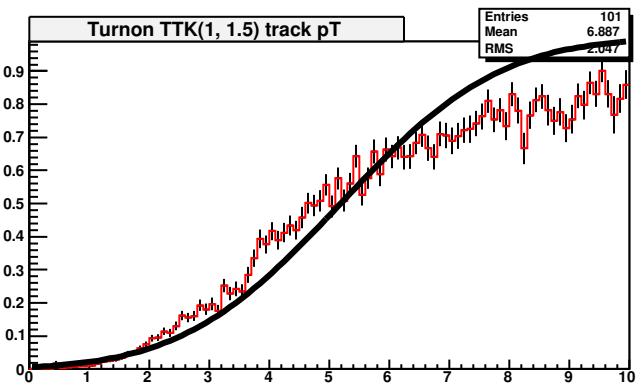


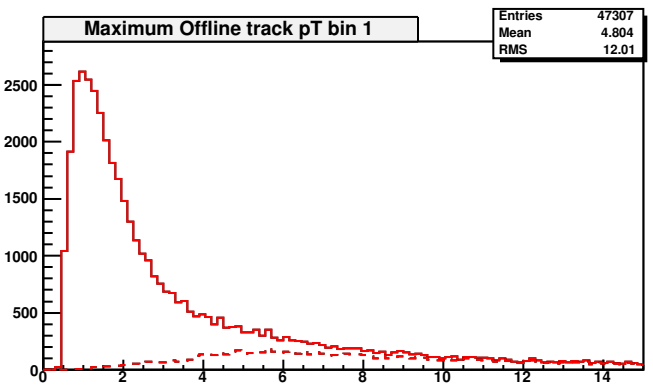


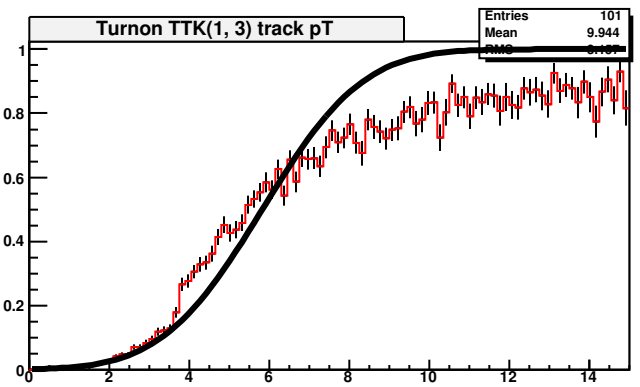


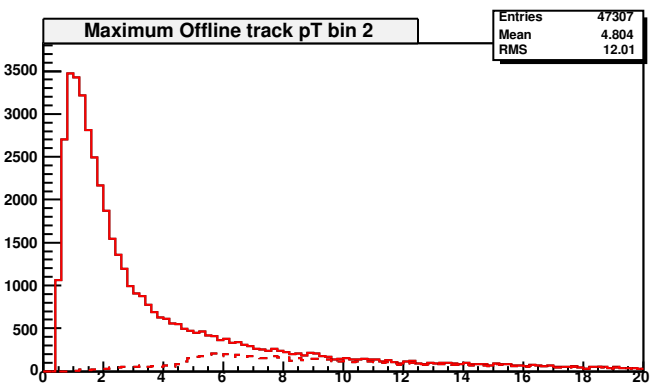
FPS Number of Hits (All)

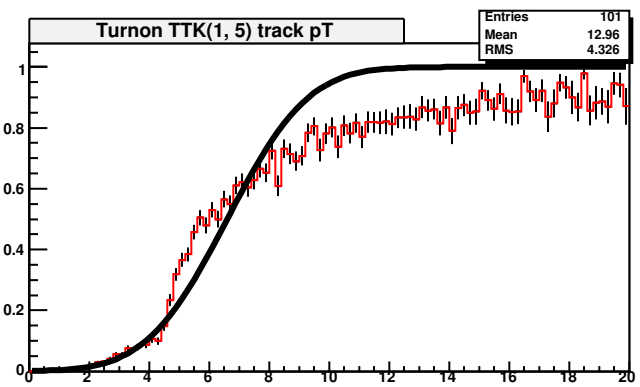


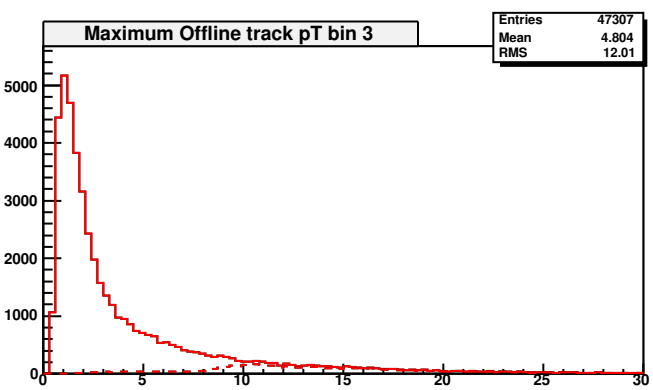


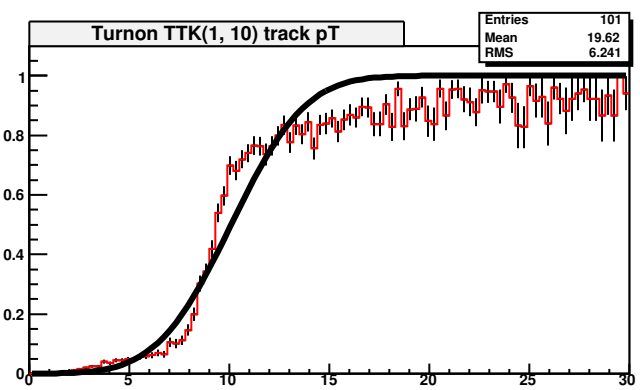




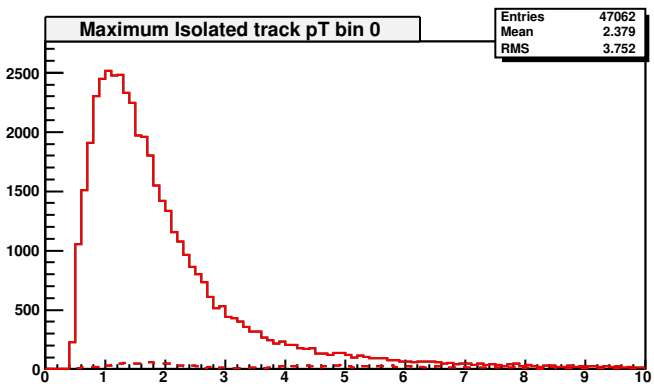


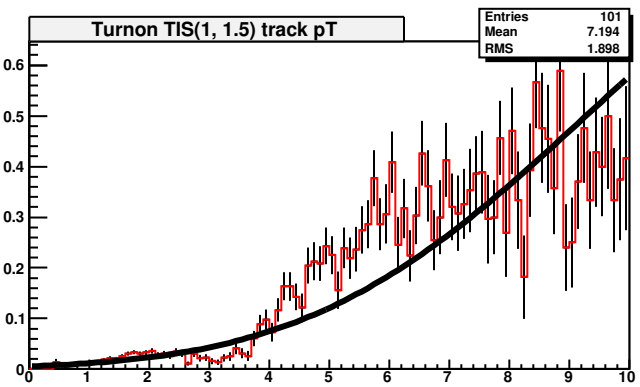


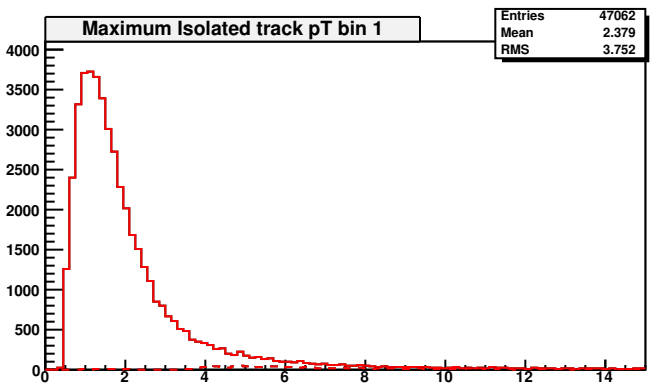


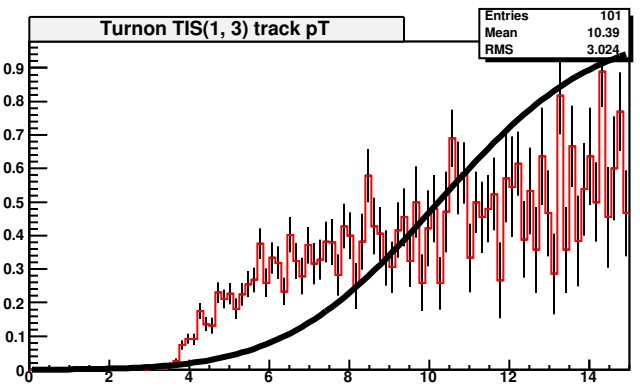


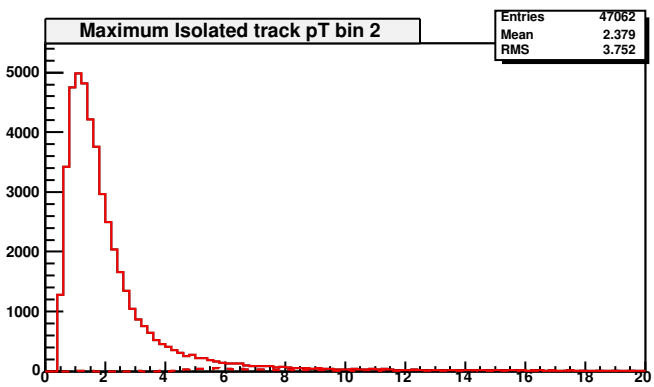
TTK Turnon curves (L1CTT All)

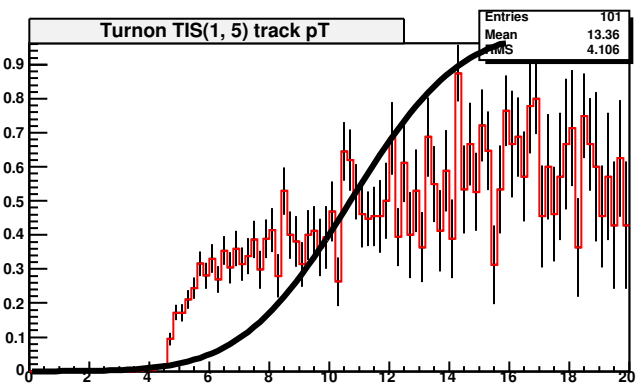


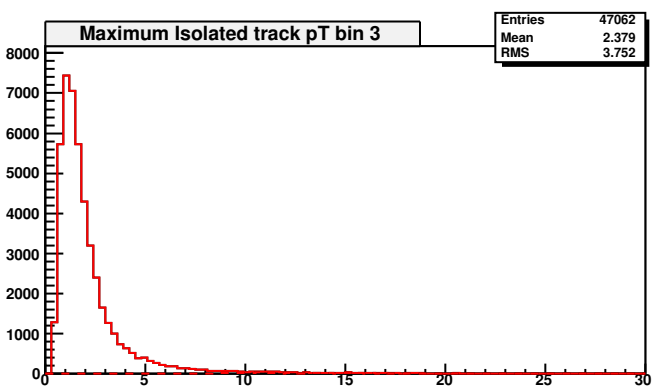


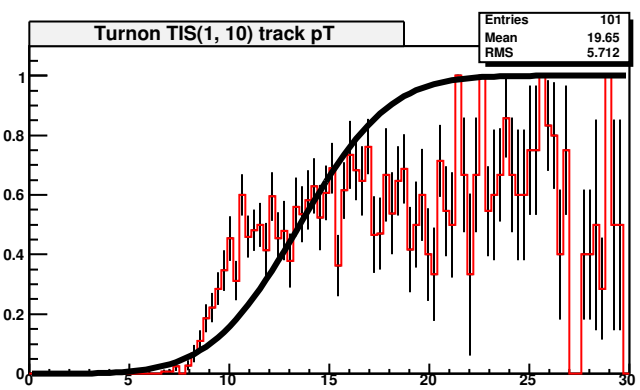




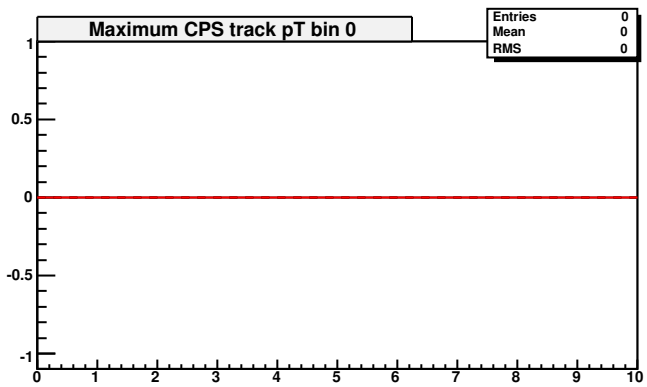


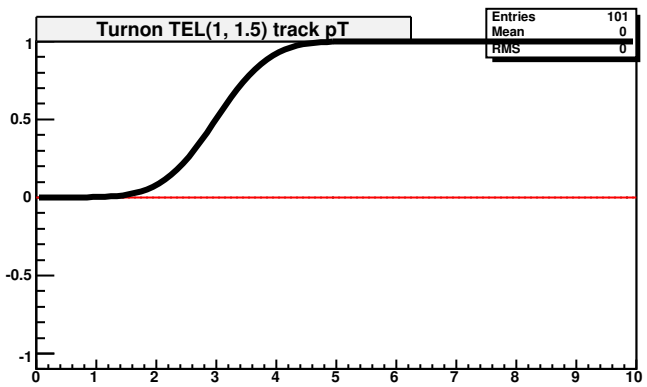


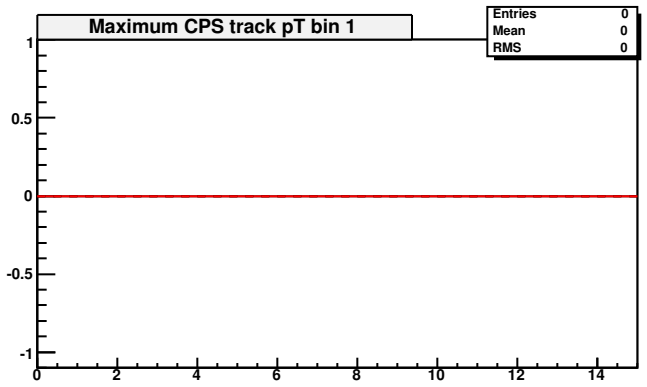


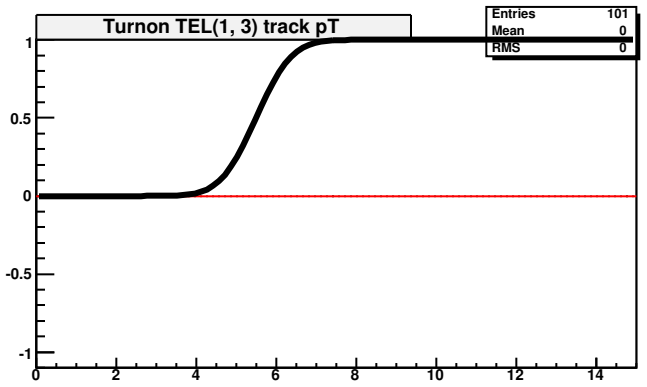


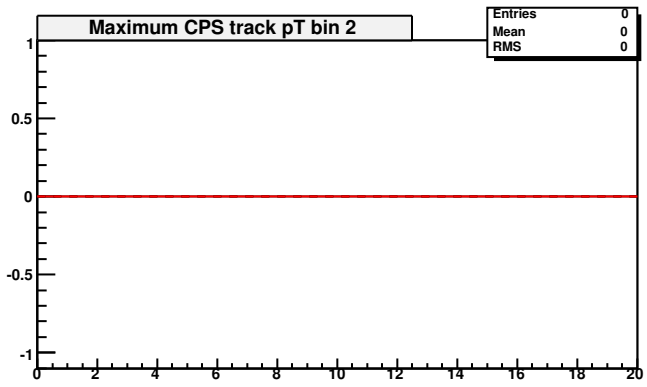
TIS Turnon curves (L1CTT All)

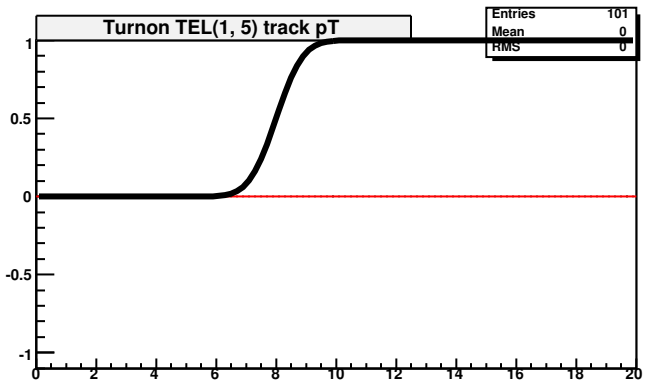


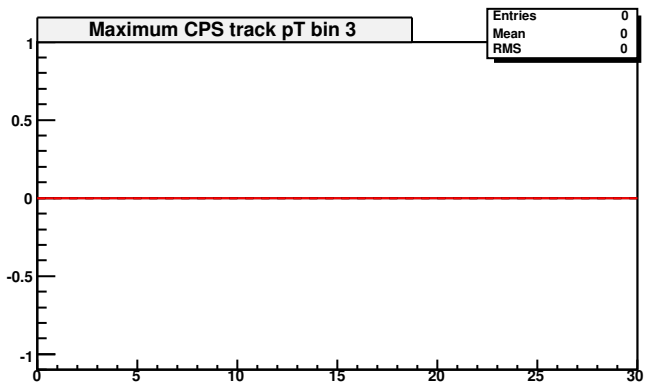


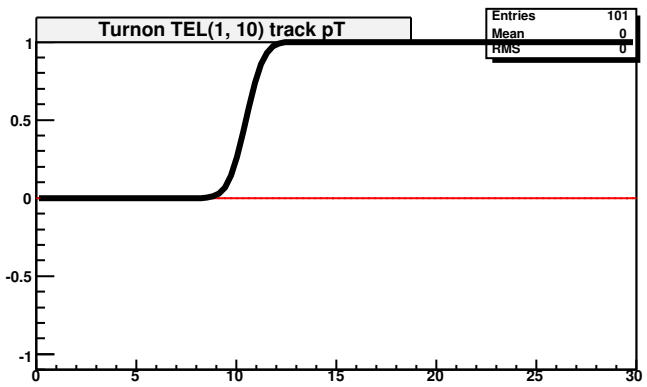




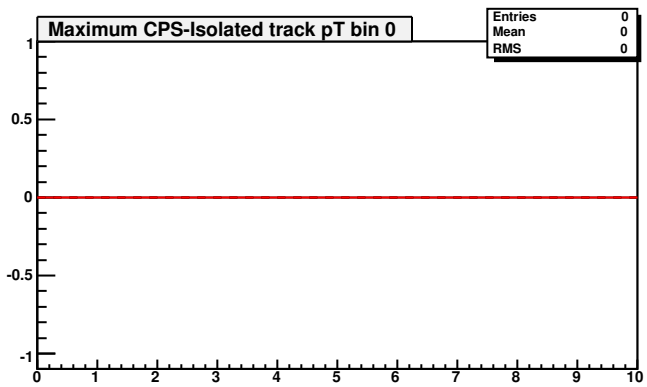


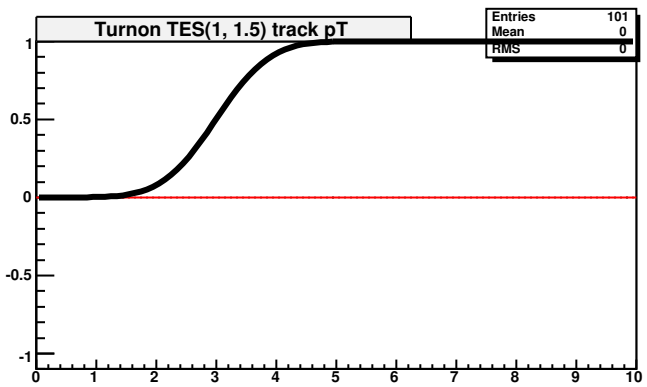


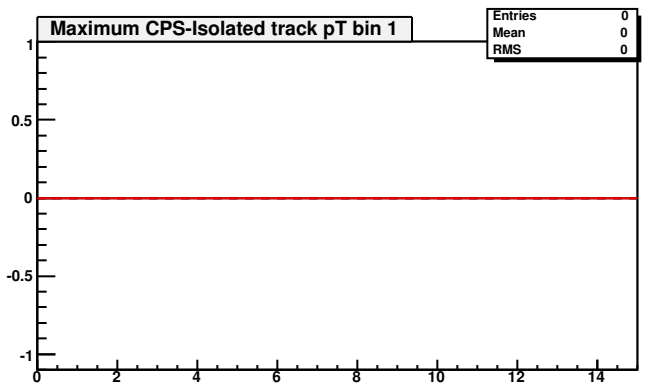


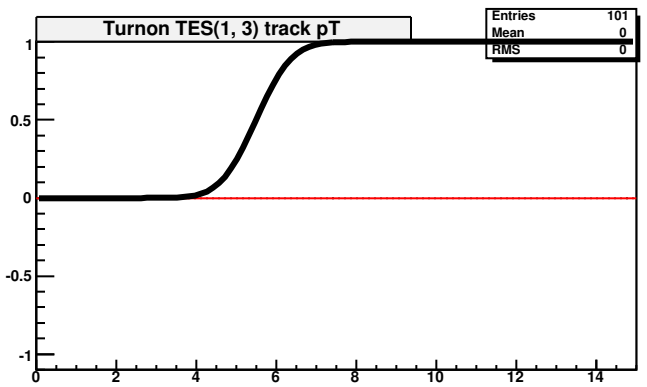


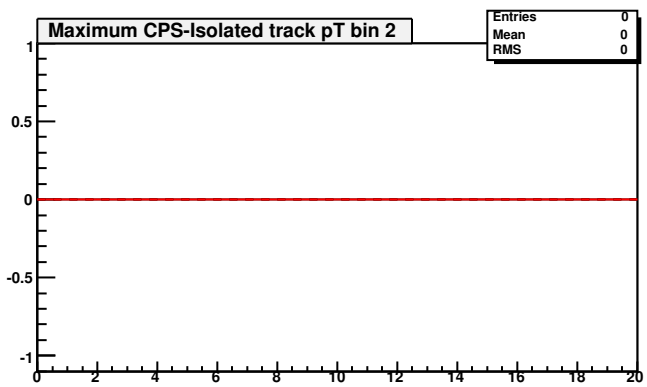
TEL Turnon curves (L1CTT All)

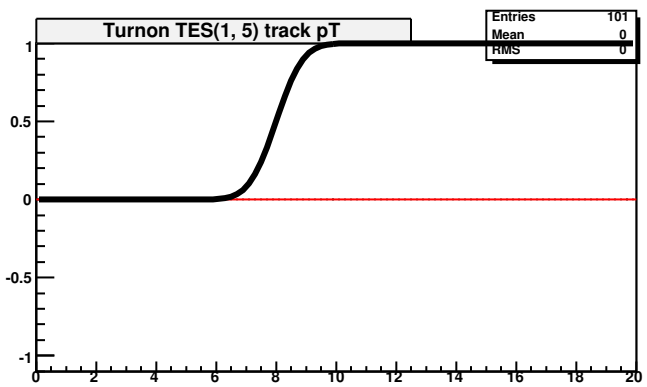


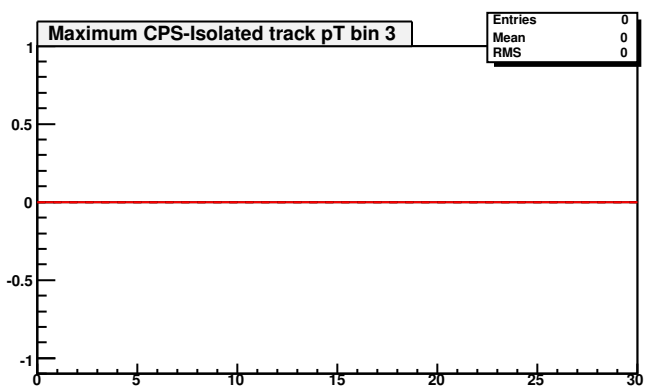


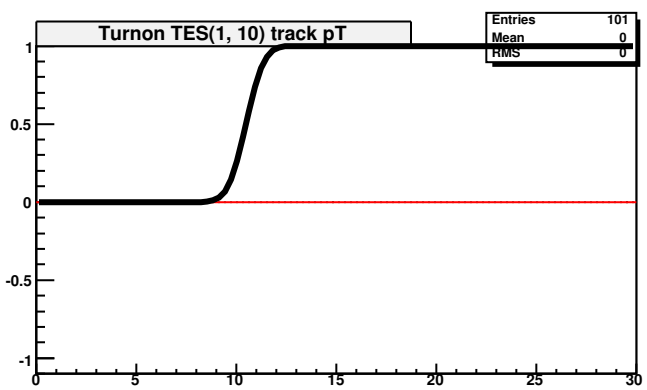




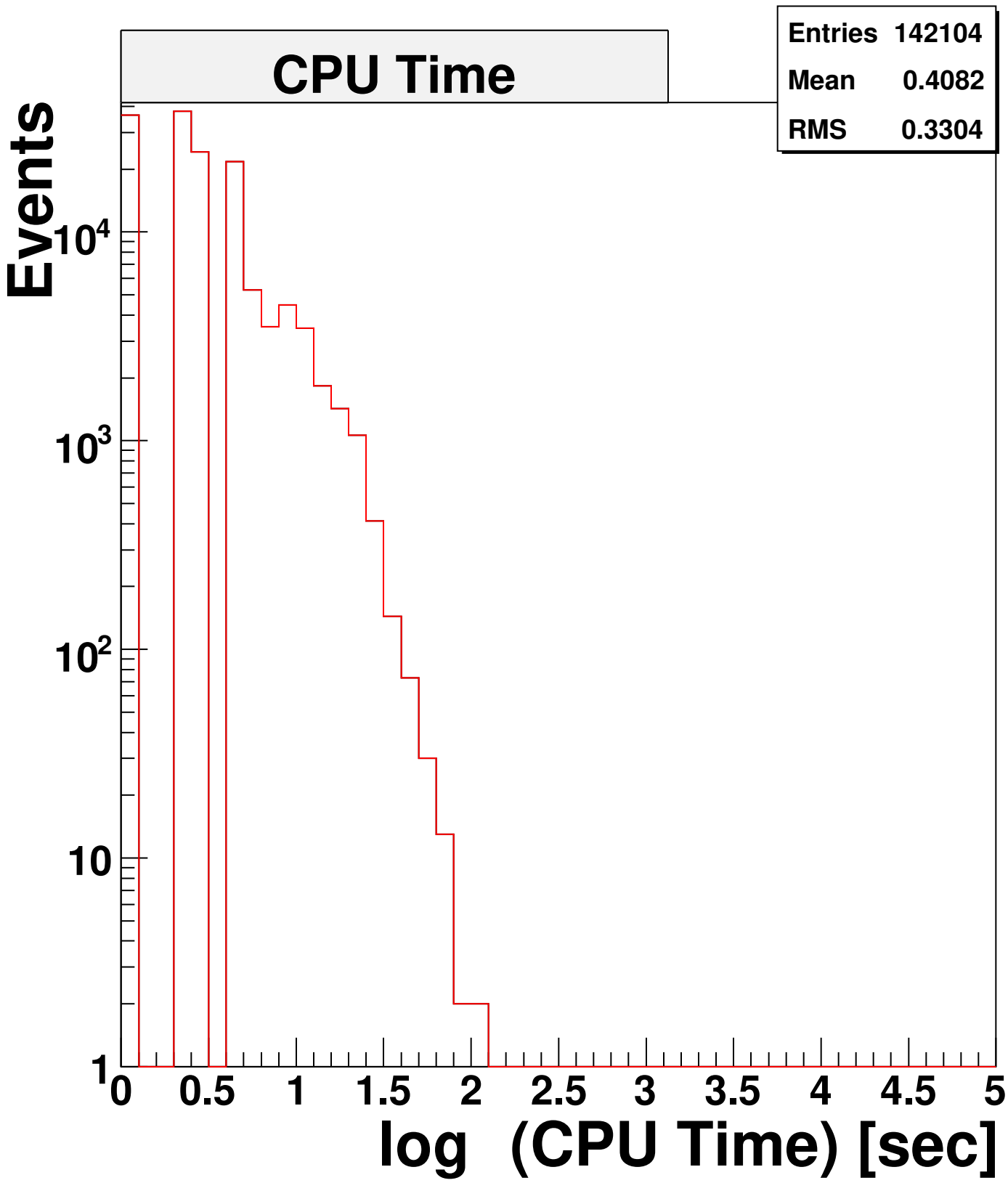








TES Turnon curves (L1CTT All)



RECO Performance (Timing)