dayset-2006-08-27-all_3-224620-1_certification_20070
../unmerged/dayset-2006-08-27-all_3-224620-1_certific

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Page 4: Tracks Hits (All)
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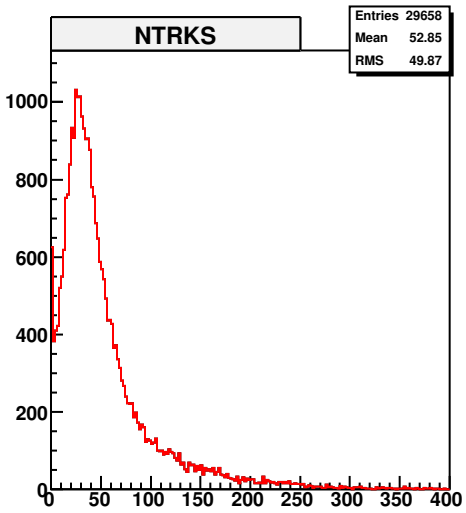
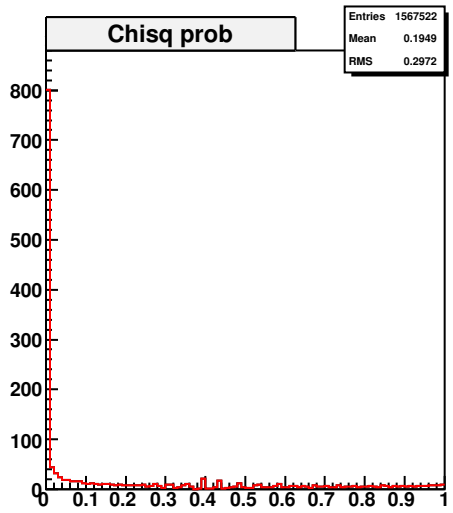
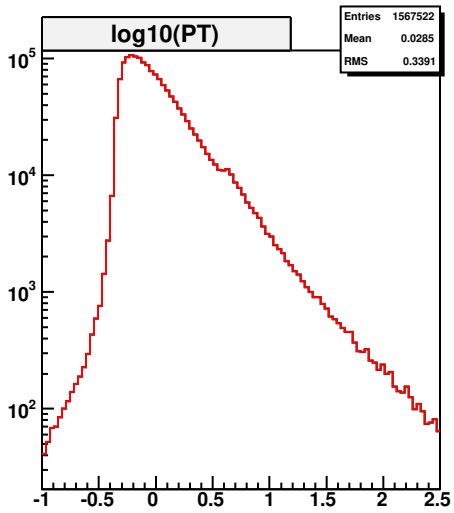
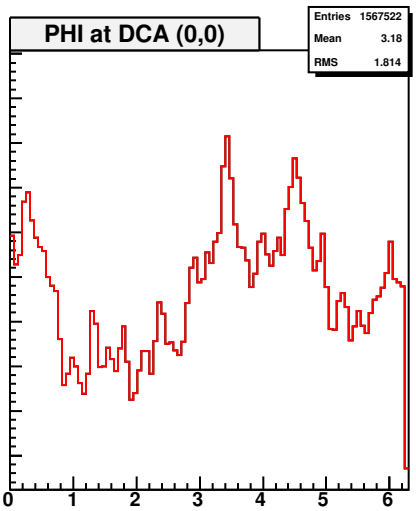
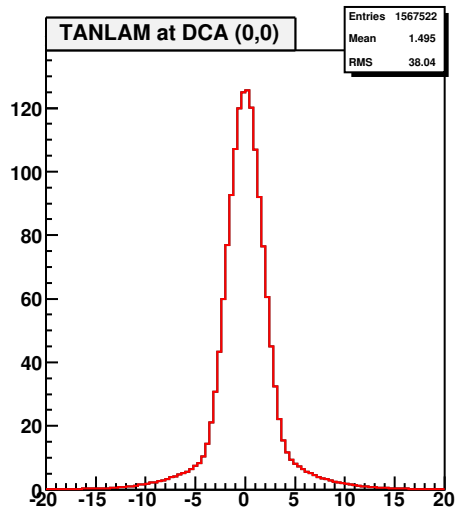
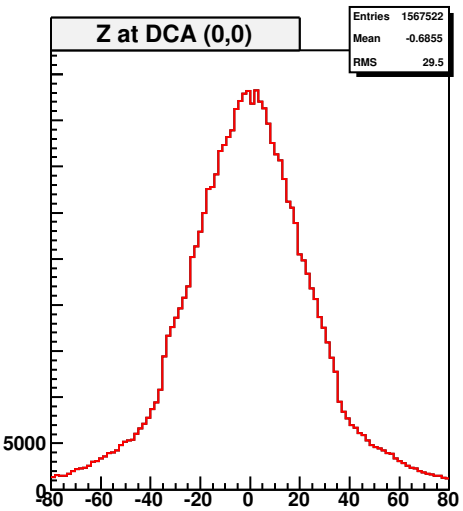

NTRKS
Entries 29658
Mean 52.85
RMS 49.87

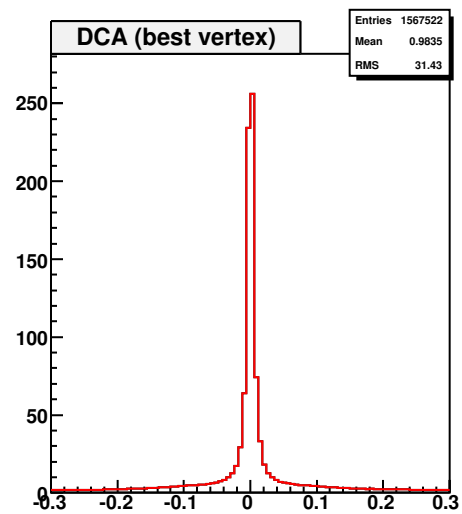

Chisq prob
Entries 1567522
Mean 0.1949
RMS 0.2972

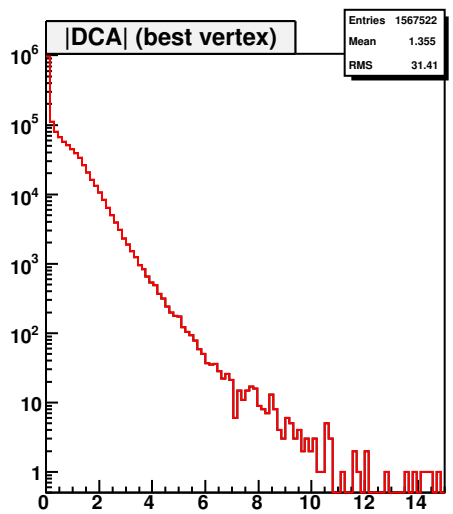

log10(PT)
Entries 1567522
Mean 0.0285
RMS 0.3391

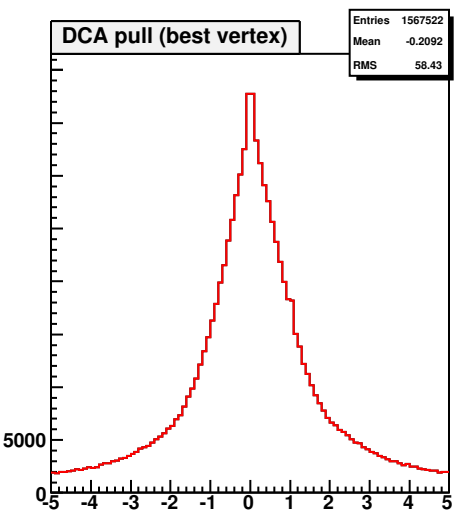

PHI at DCA (0,0)
Entries 1567522
Mean 3.18
RMS 1.814


TANLAM at DCA (0,0)
Entries 1567522
Mean 1.495
RMS 38.04

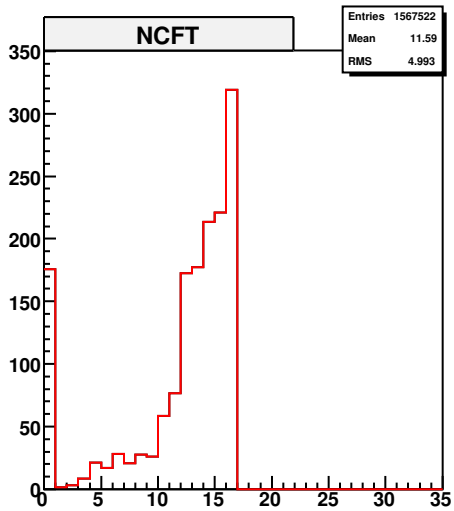

Z at DCA (0,0)
Entries 1567522
Mean -0.6855
RMS 29.5

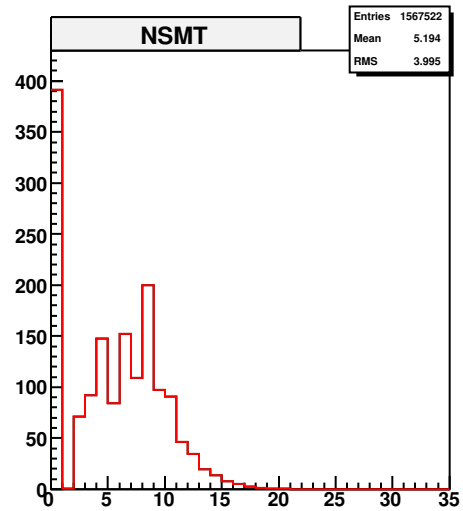

DCA (best vertex)
Entries 1567522
Mean 0.9835
RMS 31.43

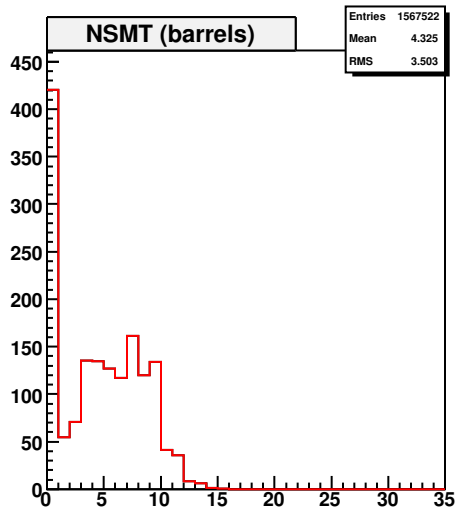

|DCA| (best vertex)
Entries 1567522
Mean 1.355
RMS 31.41

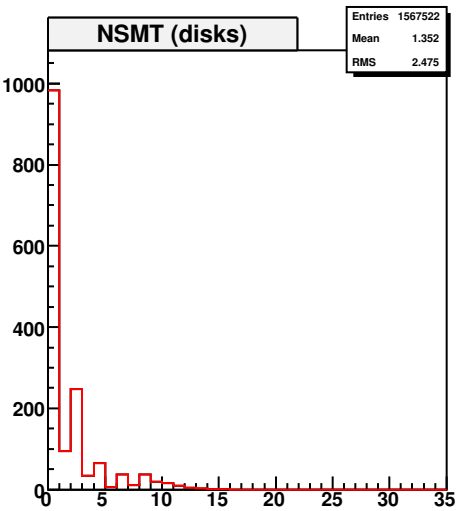

DCA pull (best vertex)
Entries 1567522
Mean -0.2092
RMS 58.43

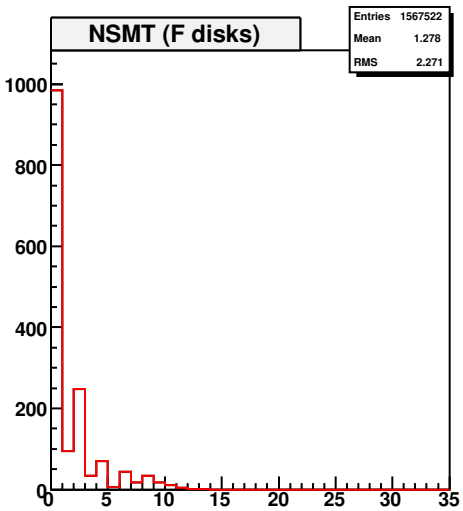
Tracks (All)

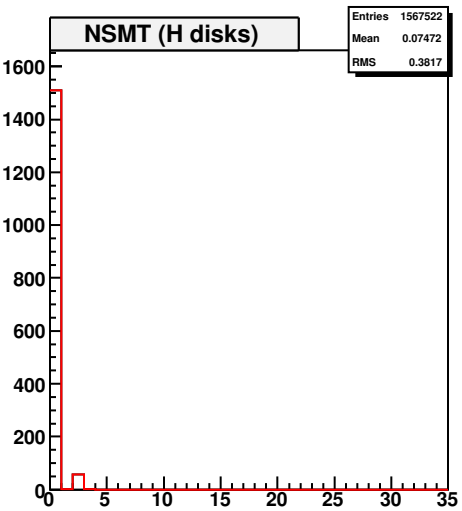


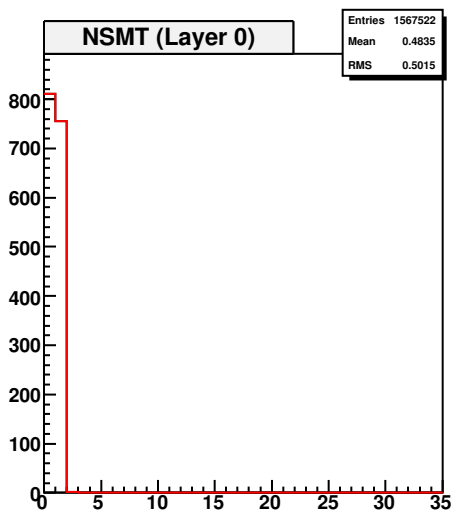




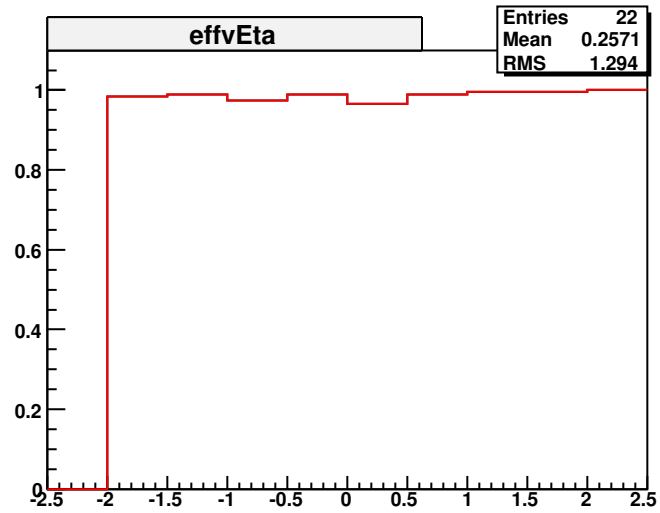


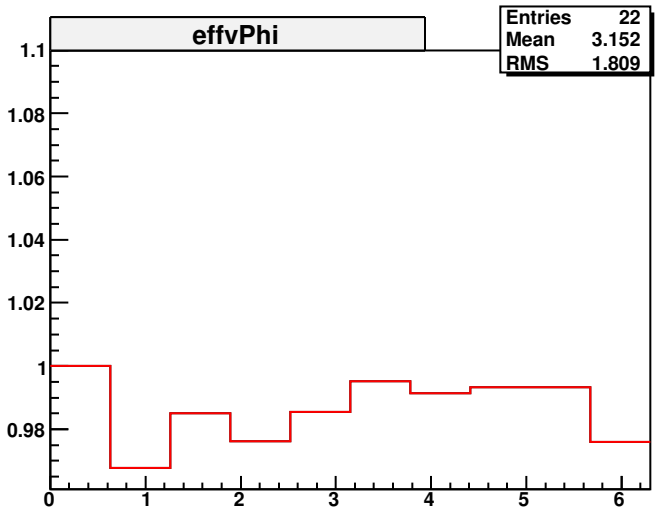


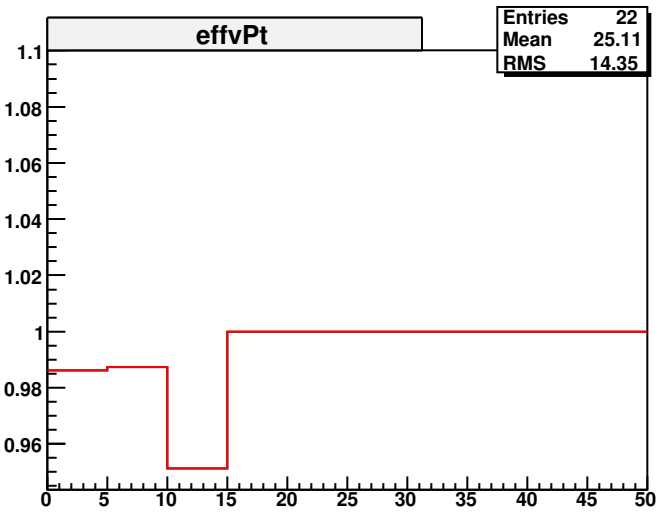


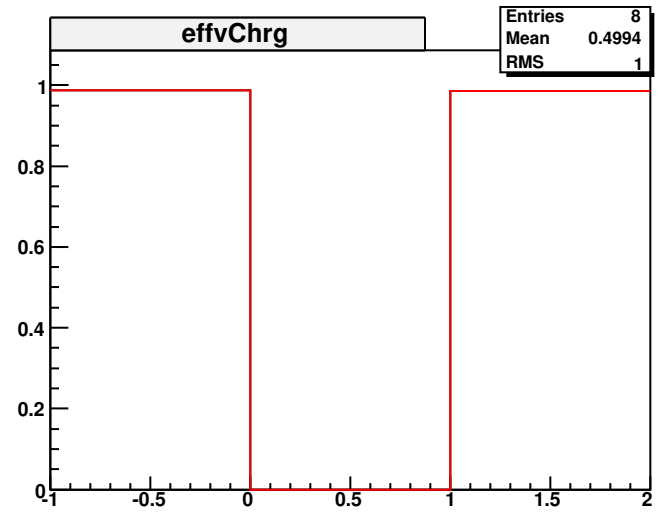


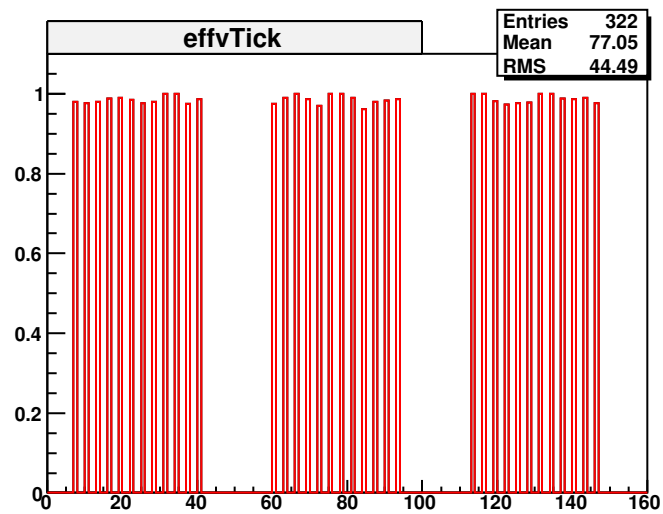
Track Hits (All)

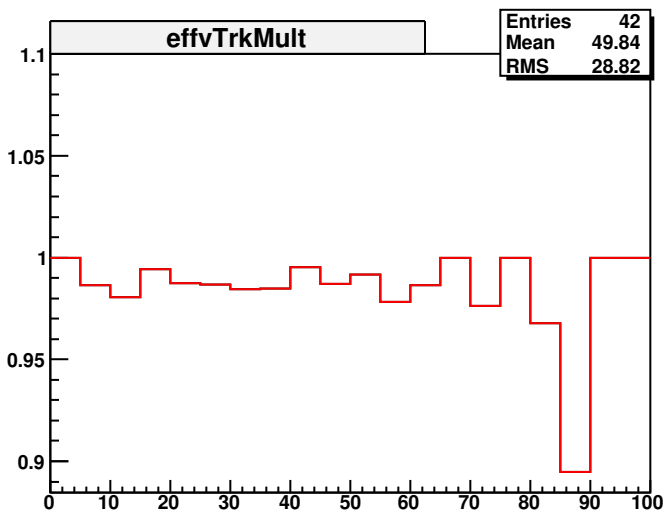




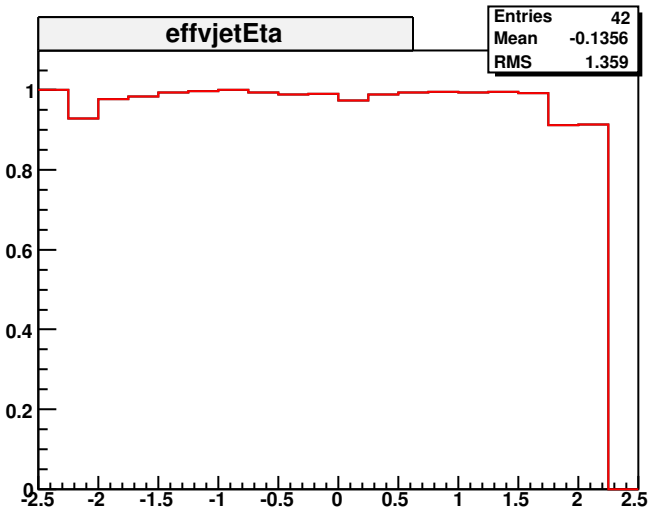


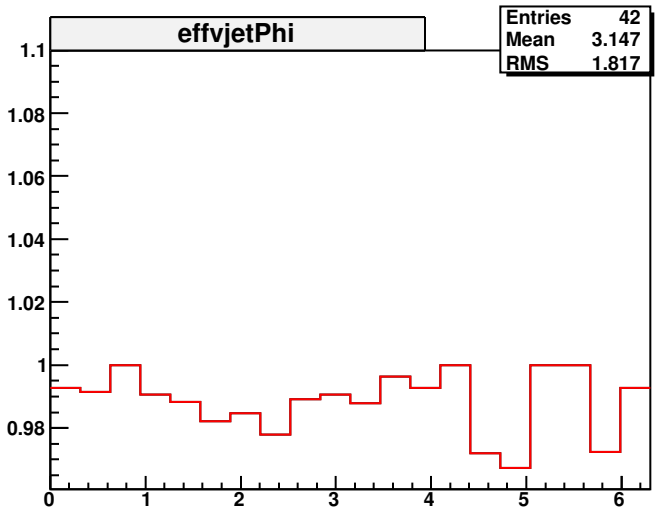


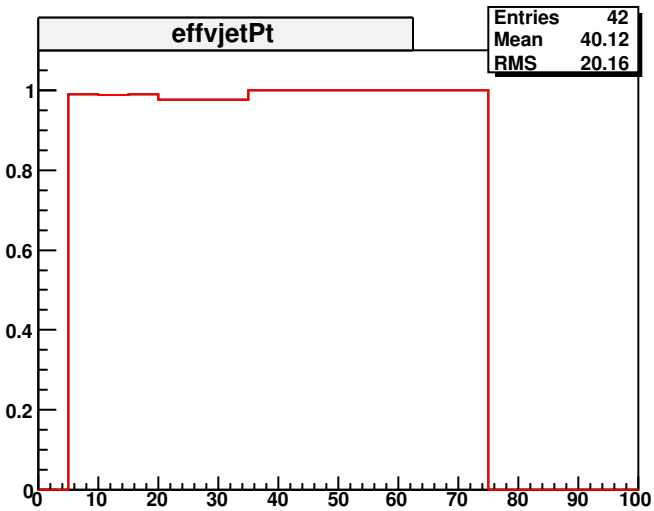




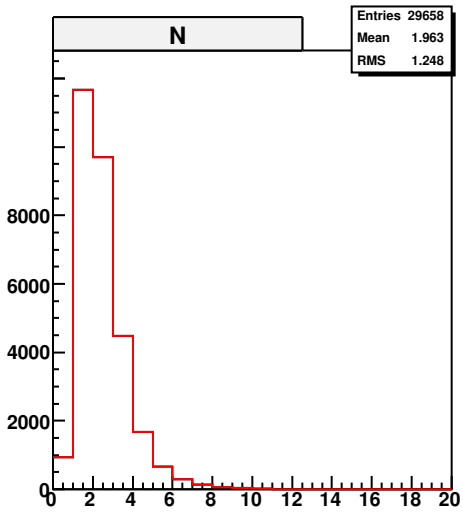
Tracking (Efficiency-Isolated)

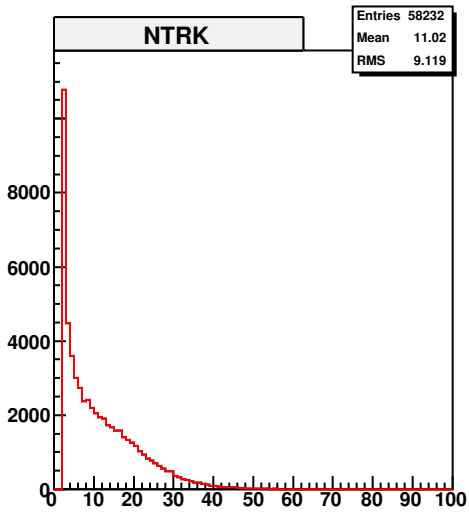


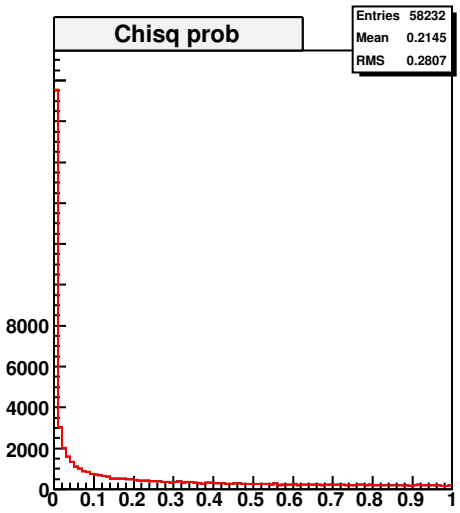


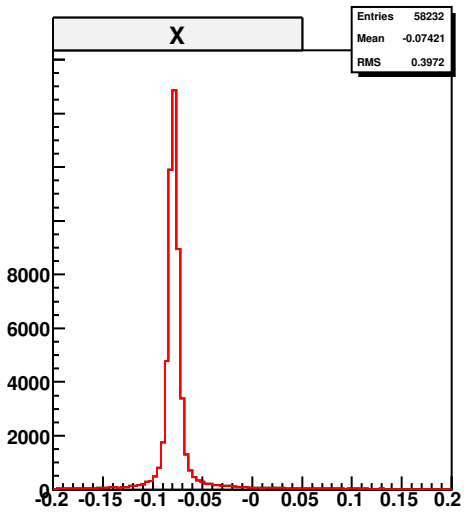


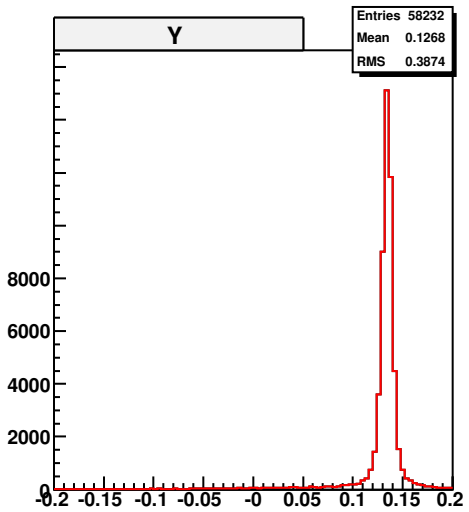
Tracking (Efficiency-InJets)

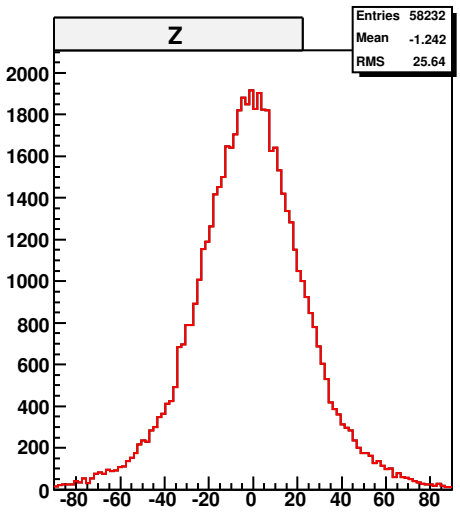




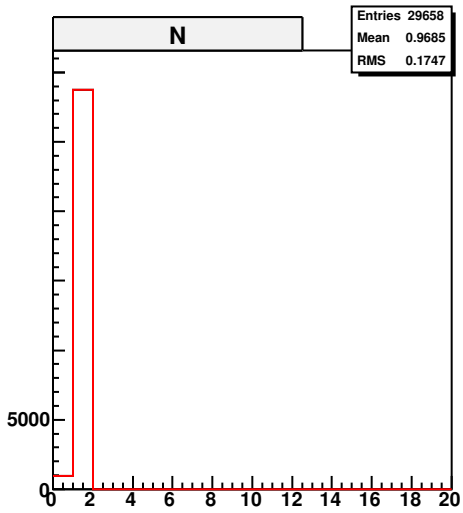


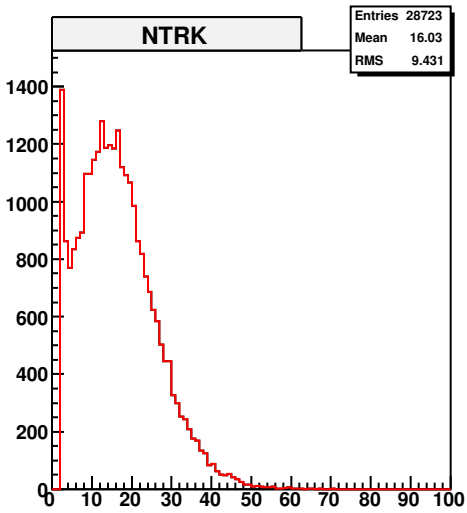


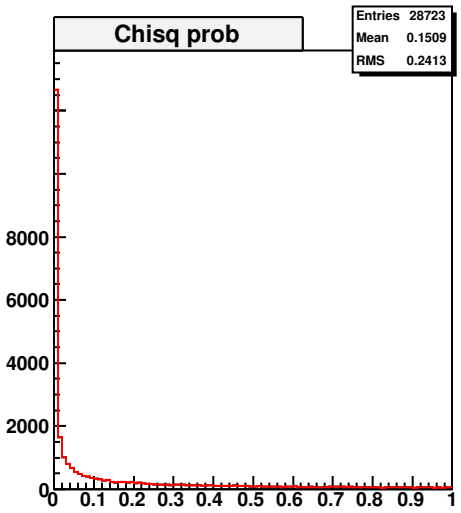


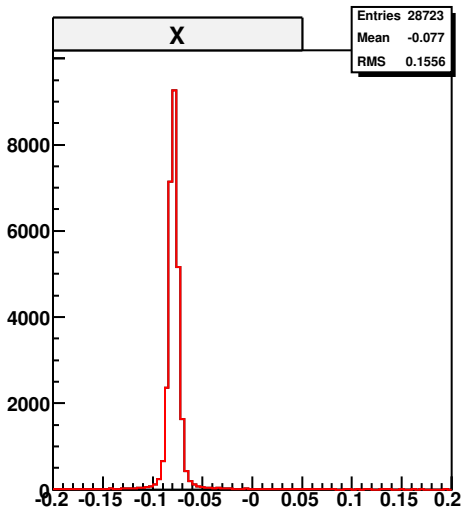


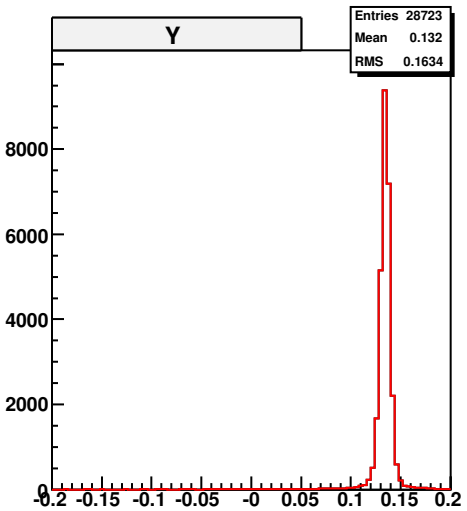
Vertices (Primary - all candidates)

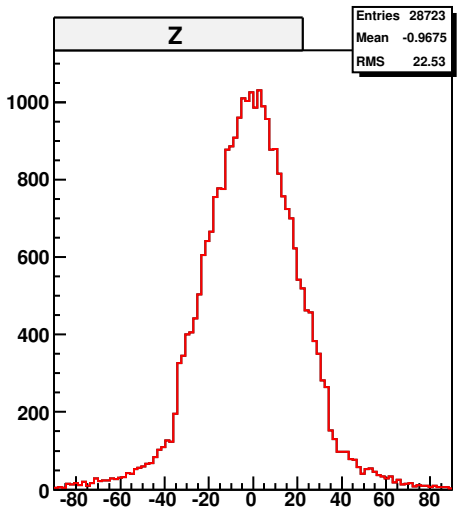




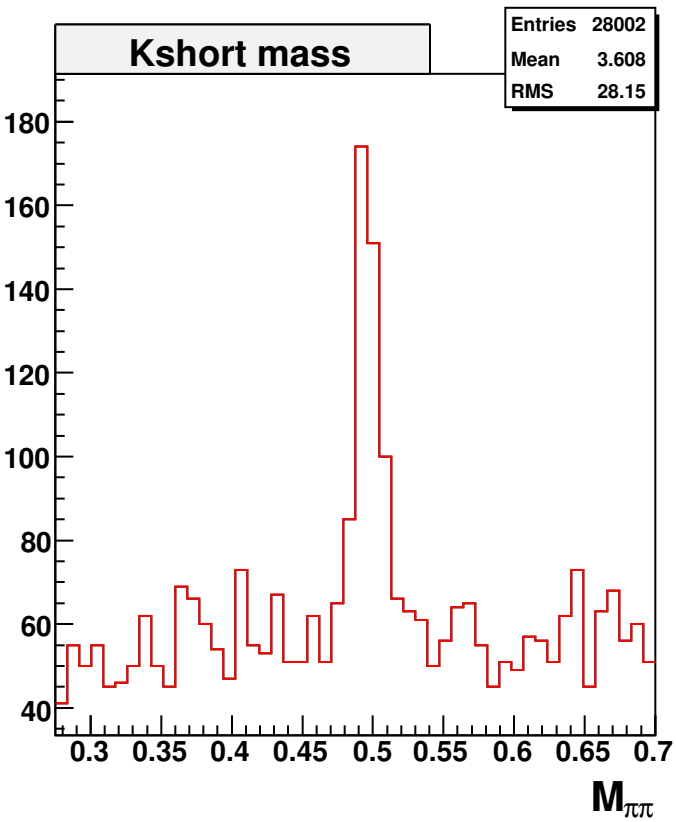


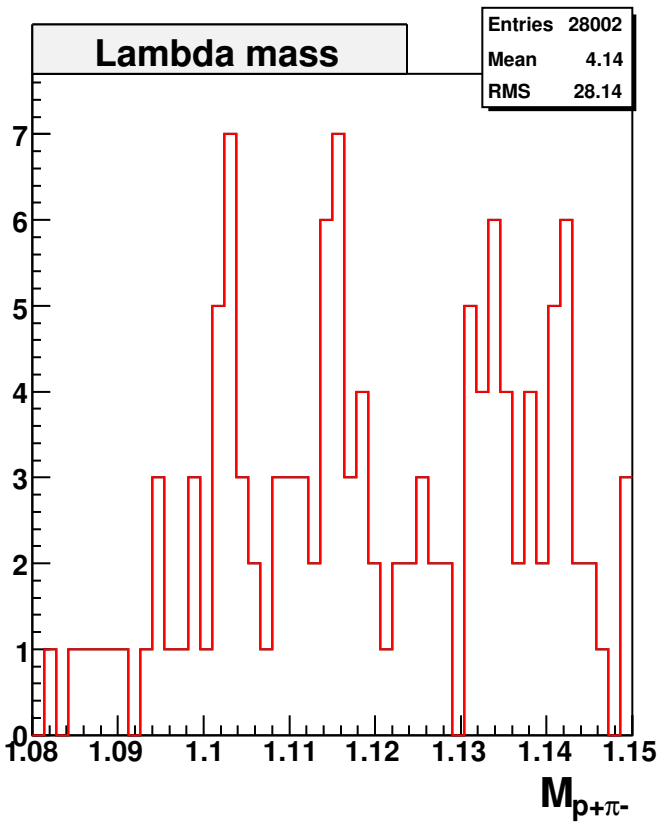


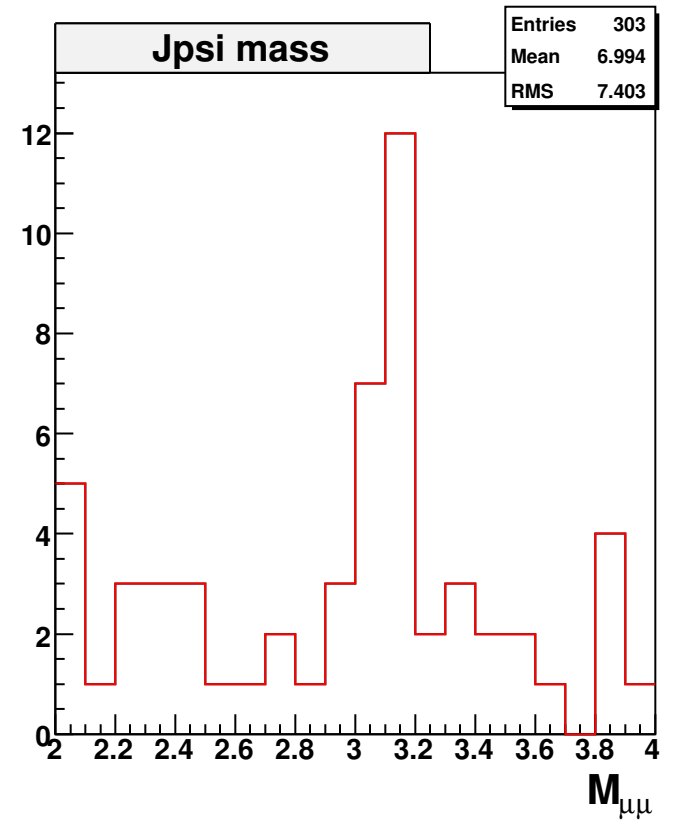


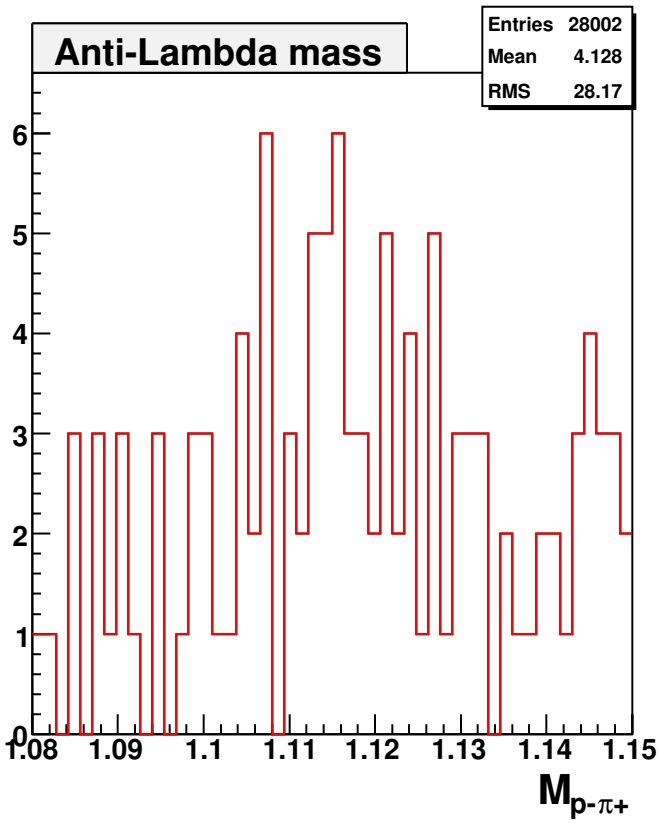


Vertices (Primary - best)

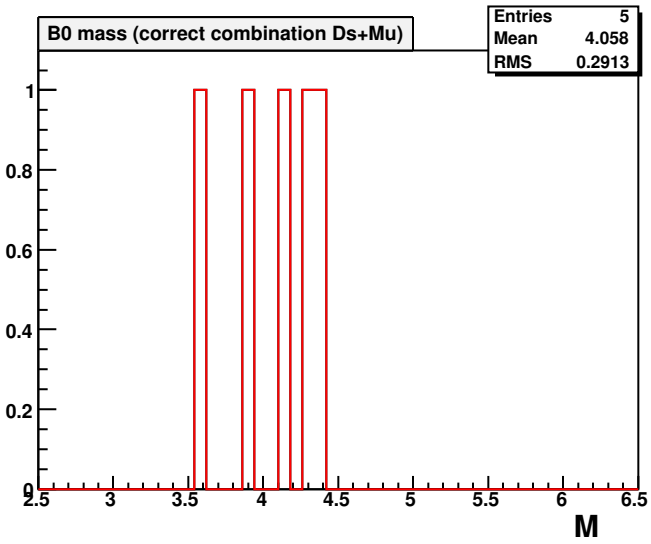

Kshort mass
Entries 28002
Mean 3.608
RMS 28.15
180
160
140
120
100
80
60
40
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

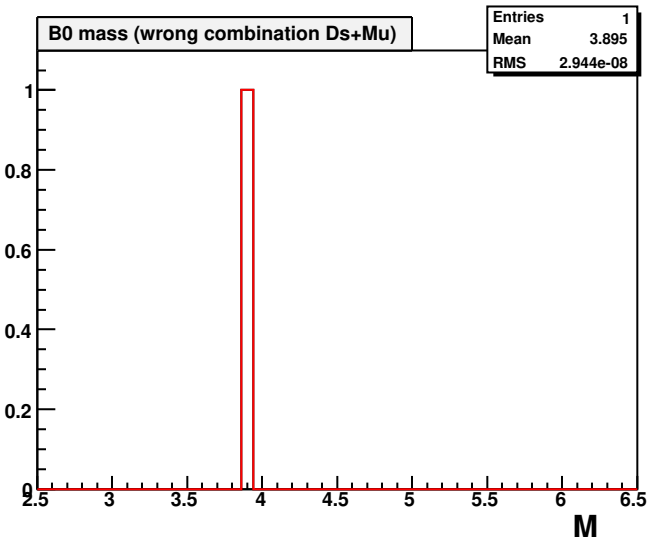

Lambda mass
Entries 28002
Mean 4.14
RMS 28.14
7
6
5
4
3
2
1
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

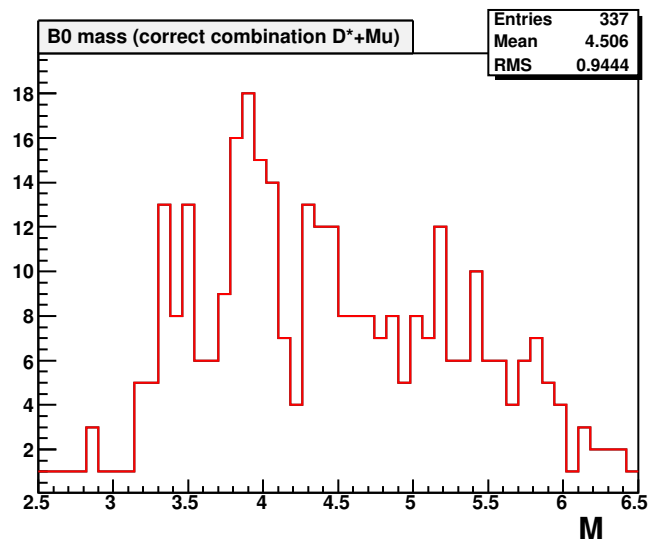

Jpsi mass
Entries 303
Mean 6.994
RMS 7.403
12
10
8
6
4
2
0
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

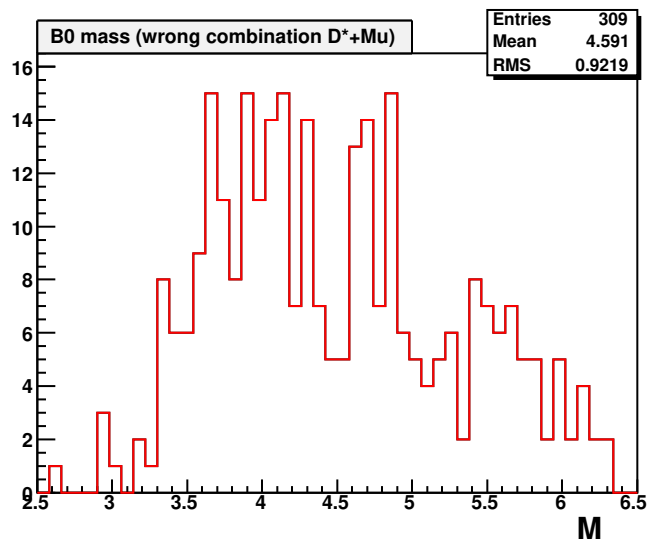

Anti-Lambda mass
Entries 28002
Mean 4.128
RMS 28.17
6
5
4
3
2
1
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

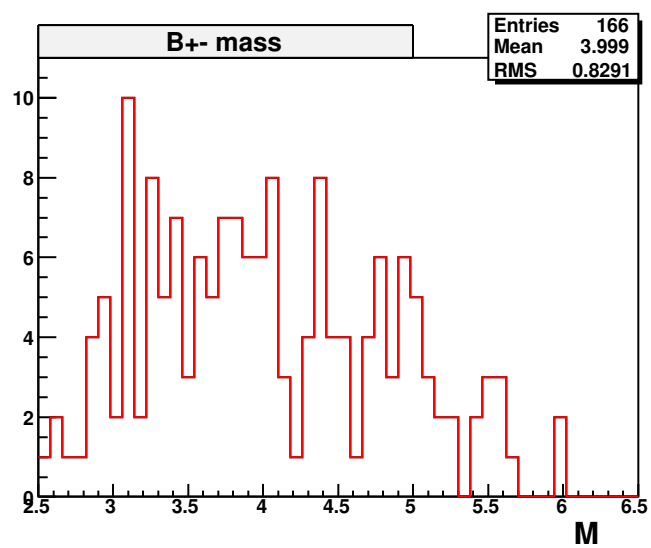
V0 (All)



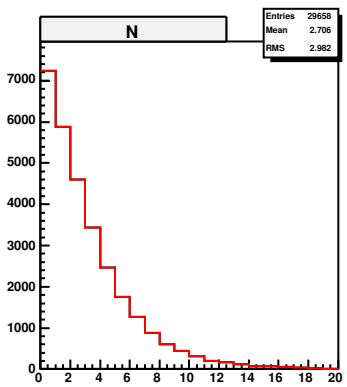


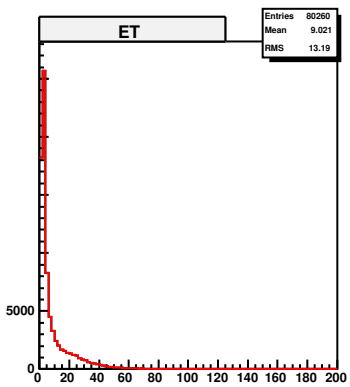


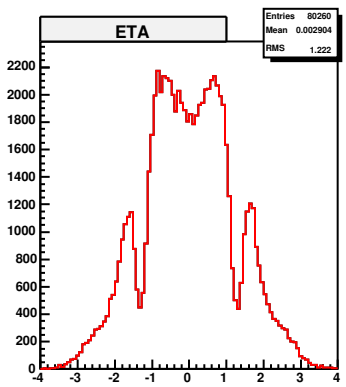


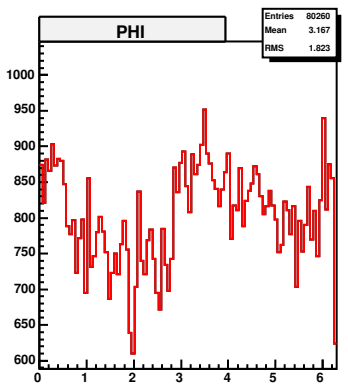


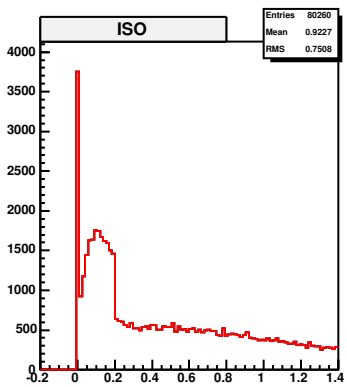
V0(B mesons) (All)

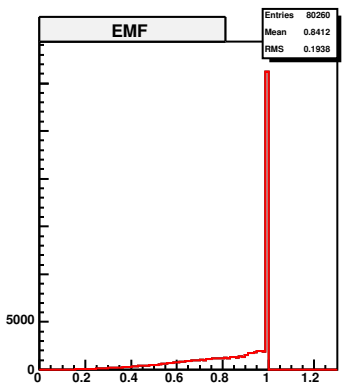


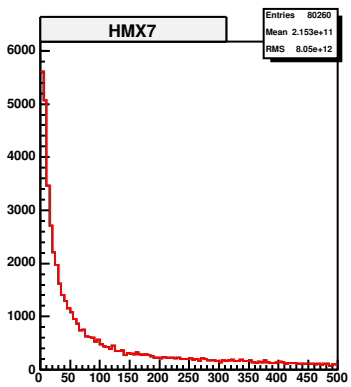


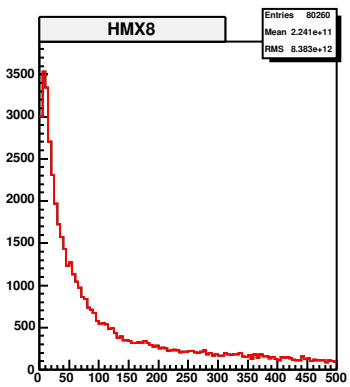


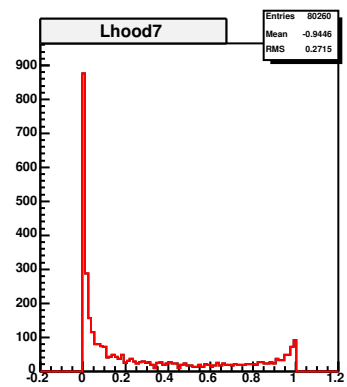


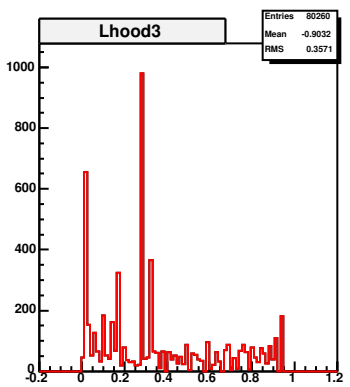


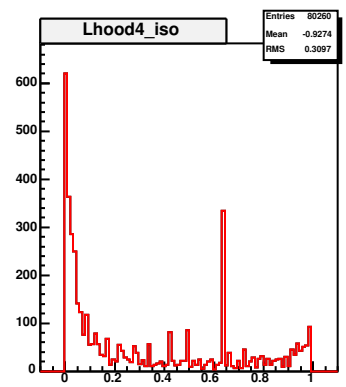


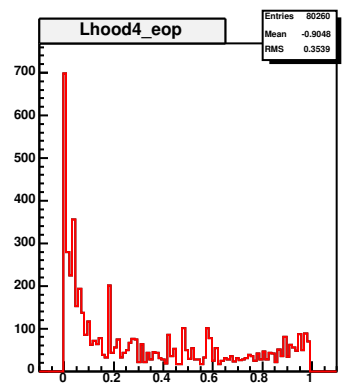


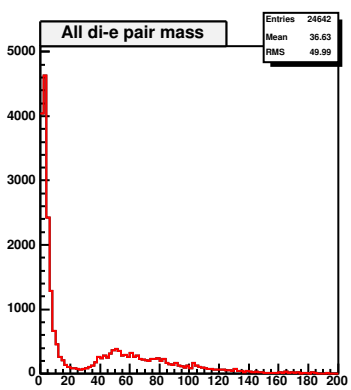


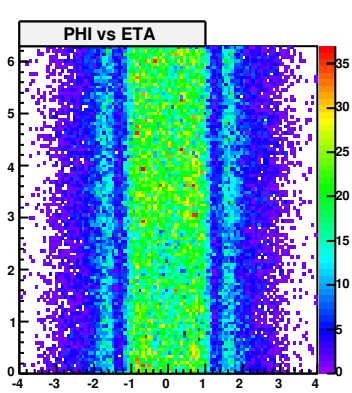


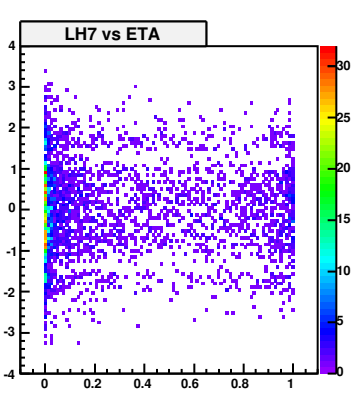


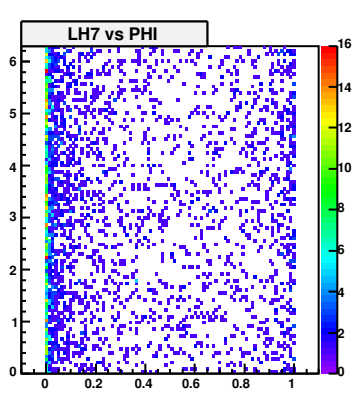




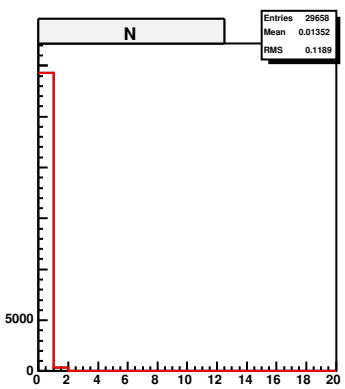


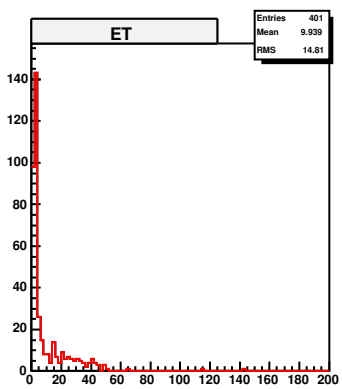


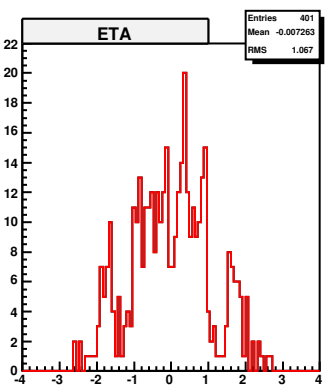


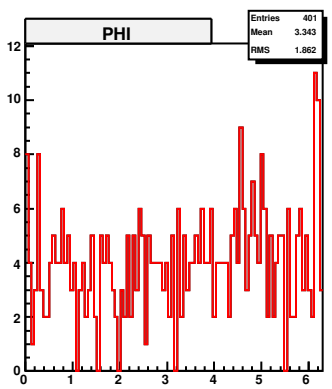


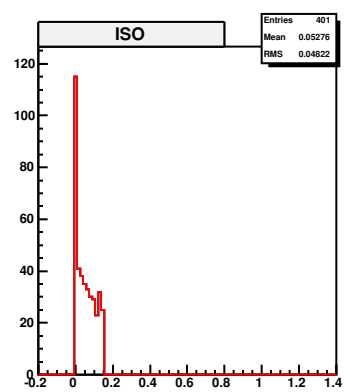
Electrons (SCONE All)

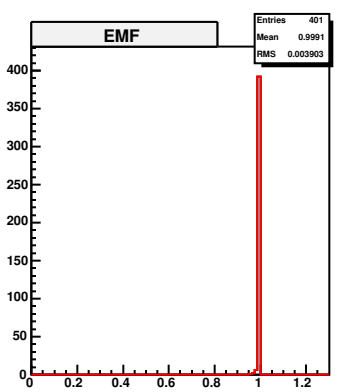


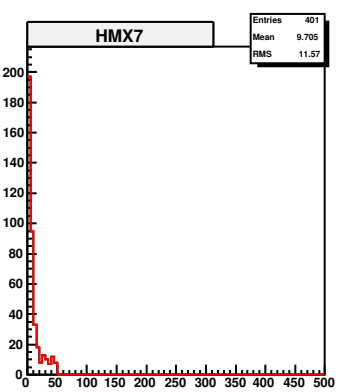


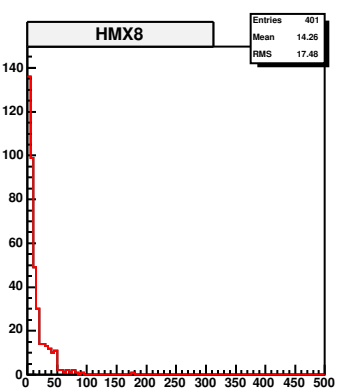


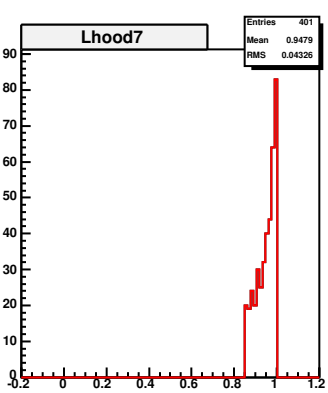


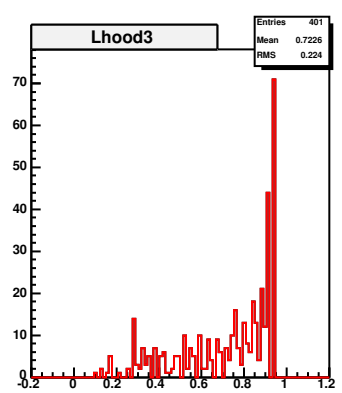


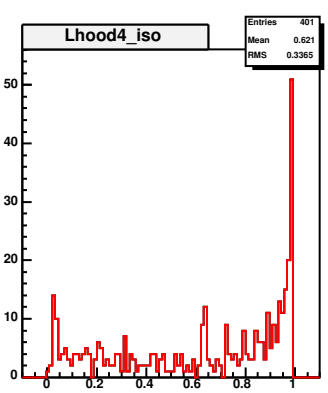


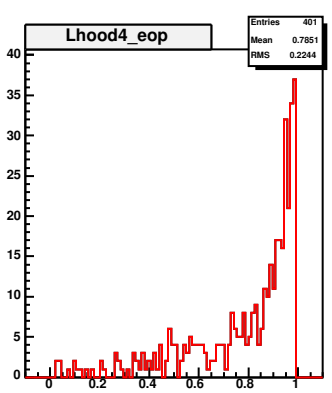


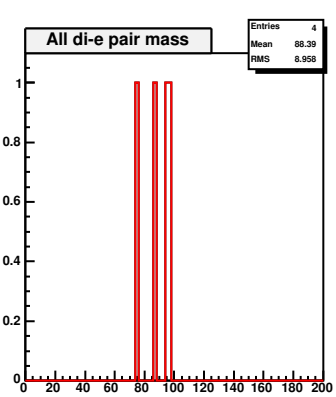


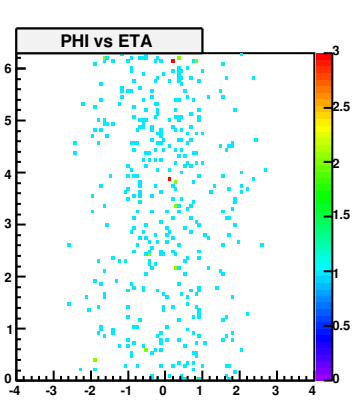


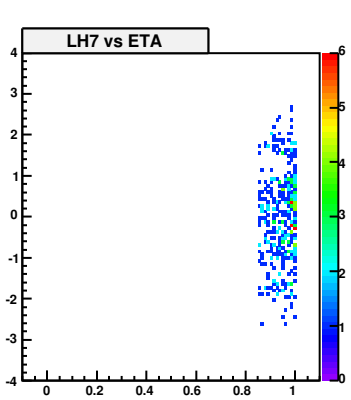


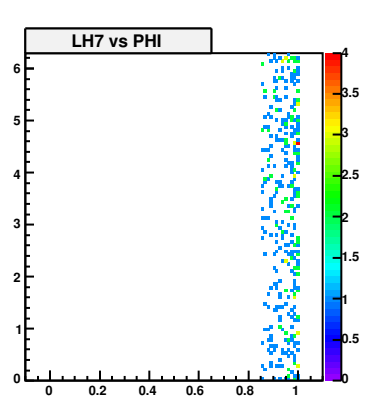




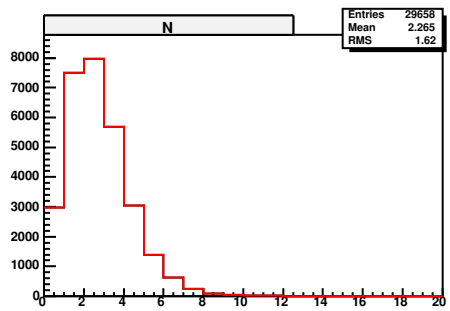


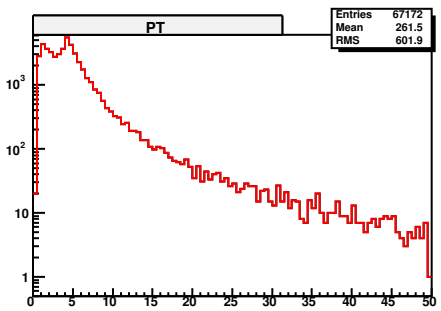


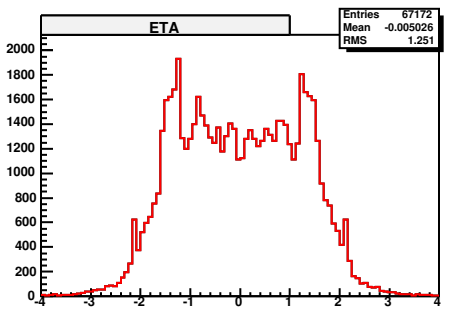


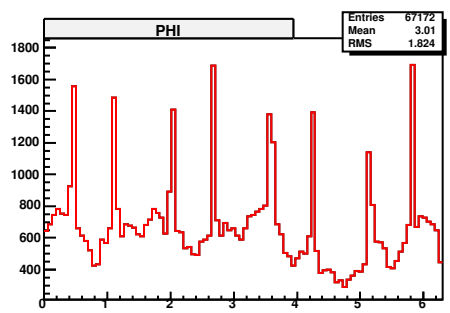


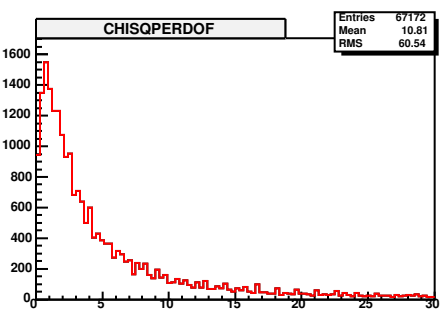
Electrons (SCONE Tight)

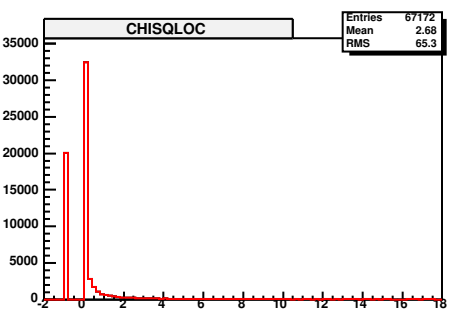

N
Entries 29658
Mean 2.265
RMS 1.62

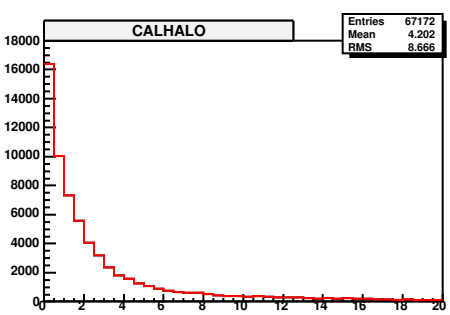

PT
Entries 67172
Mean 261.5
RMS 601.9

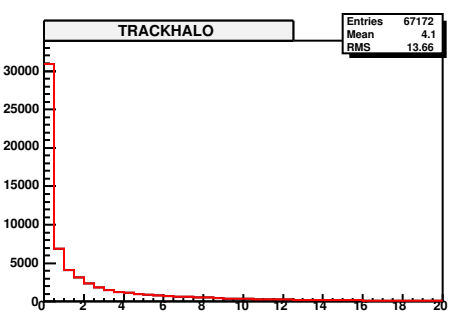

ETA
Entries 67172
Mean -0.005026
RMS 1.251

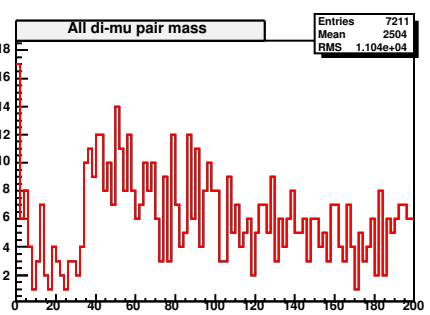

PHI
Entries 67172
Mean 3.01
RMS 1.824

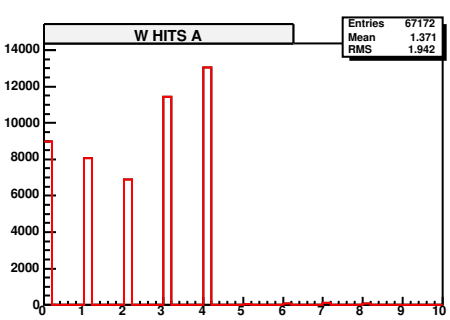

CHISQPERDOF
Entries 67172
Mean 10.81
RMS 60.54

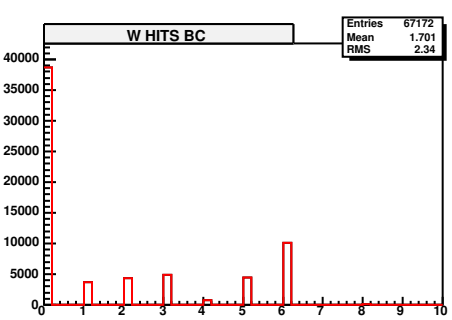

CHISQLOC
Entries 67172
Mean 2.68
RMS 65.3

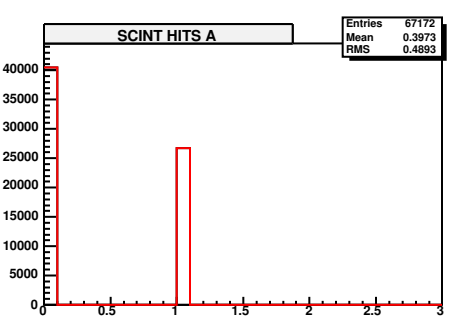

CALHALO
Entries 67172
Mean 4.202
RMS 8.666

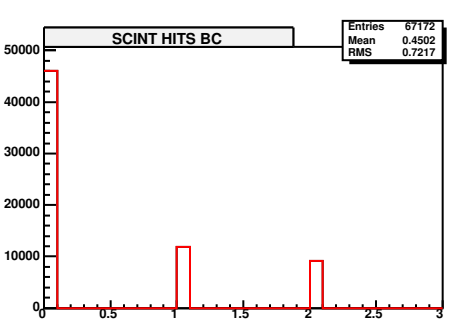

TRACKHALO
Entries 67172
Mean 4.1
RMS 13.66


All di-mu pair mass
Entries 7211
Mean 2504
RMS 1.104e+04

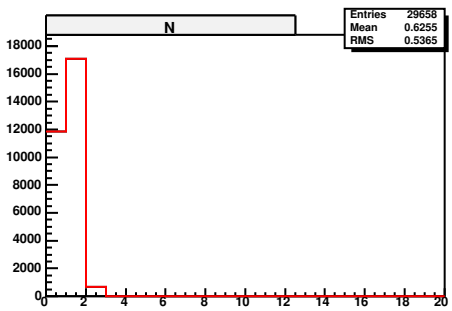

W HITS A
Entries 67172
Mean 1.371
RMS 1.942

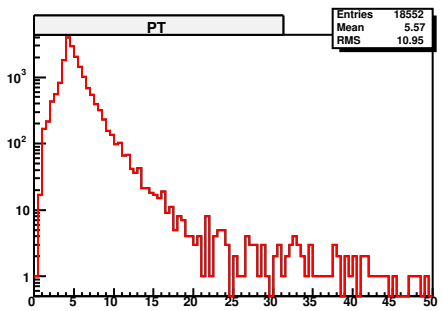

W HITS BC
Entries 67172
Mean 1.701
RMS 2.34

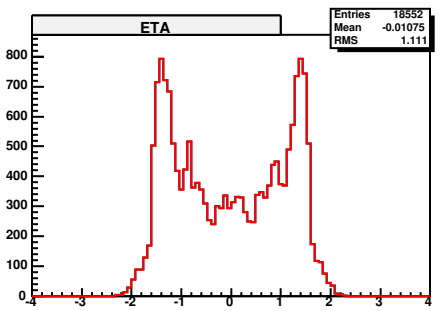

SCINT HITS A
Entries 67172
Mean 0.3973
RMS 0.4893

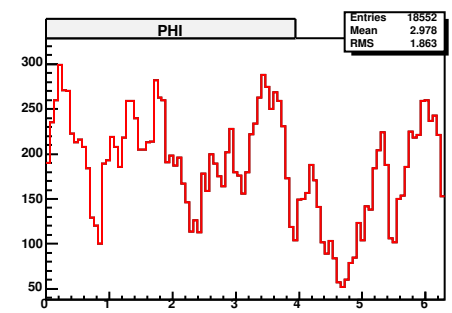

SCINT HITS BC
Entries 67172
Mean 0.4502
RMS 0.7217

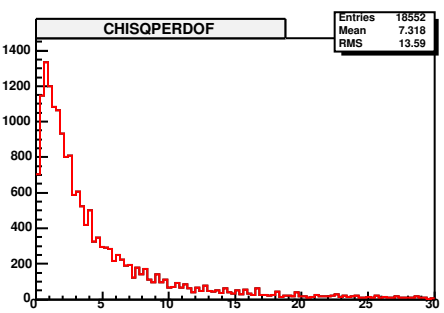
Muons (All)

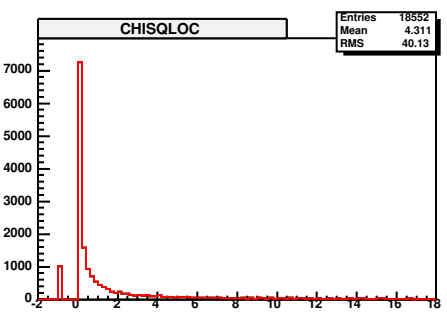


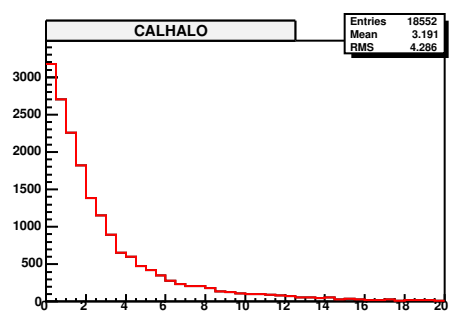


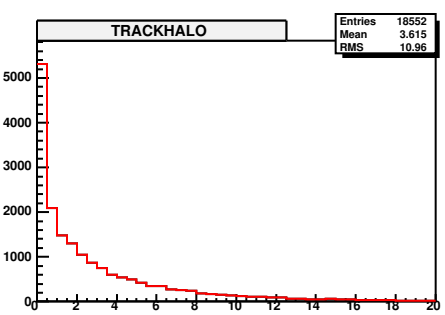


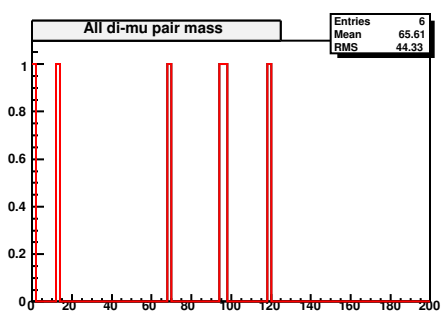


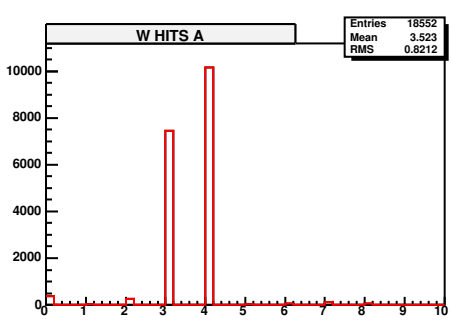


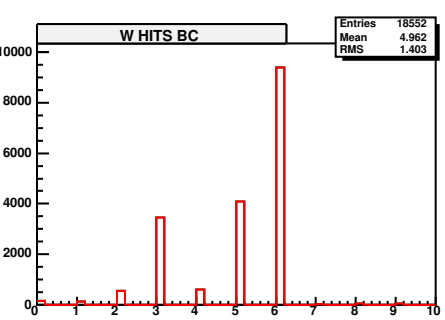


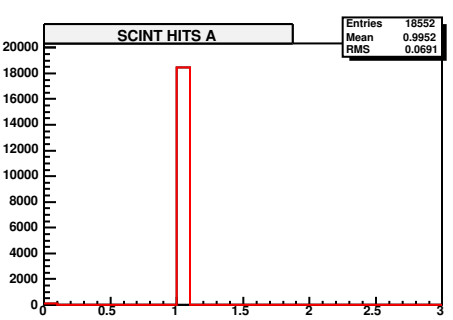


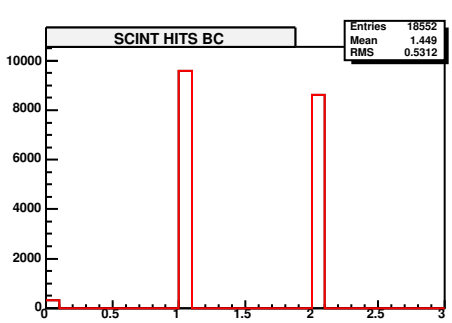




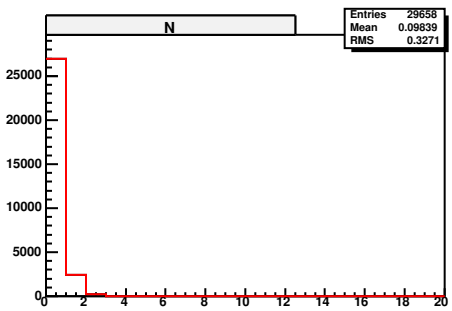


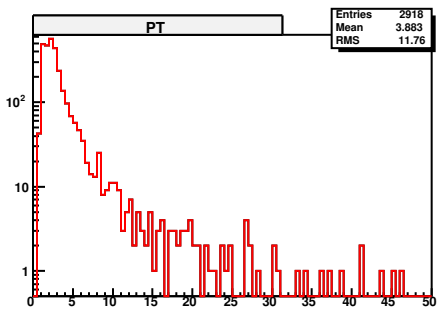


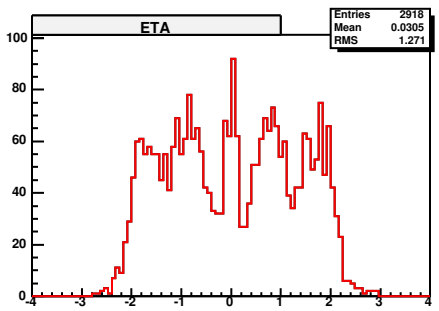


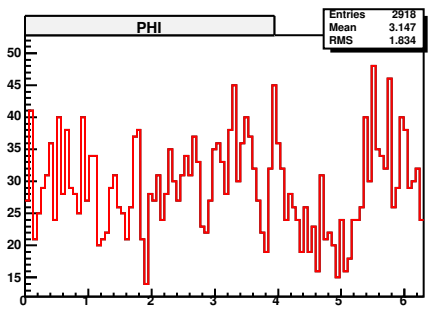


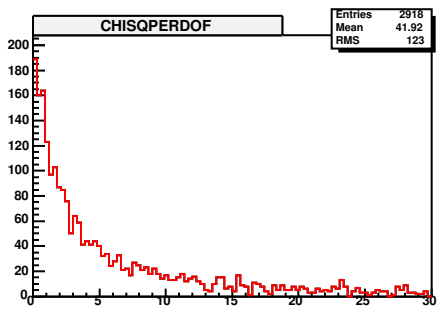
Muons (Matched)

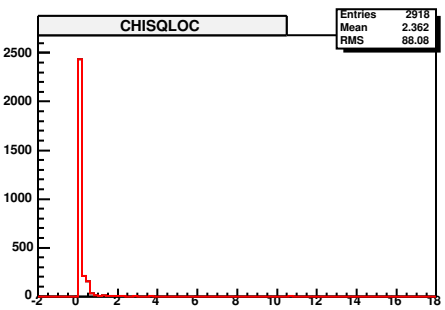

N
Entries 29658
Mean 0.09839
RMS 0.3271

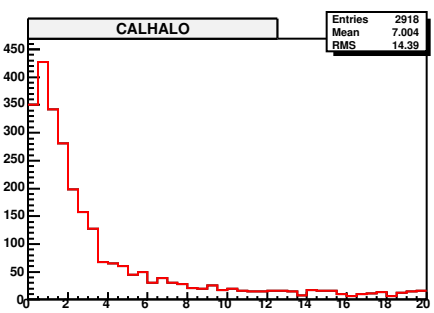

PT
Entries 2918
Mean 3.883
RMS 11.76

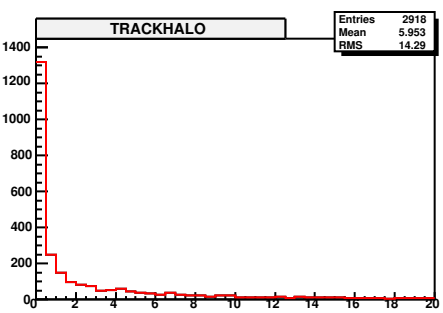

ETA
Entries 2918
Mean 0.0305
RMS 1.271

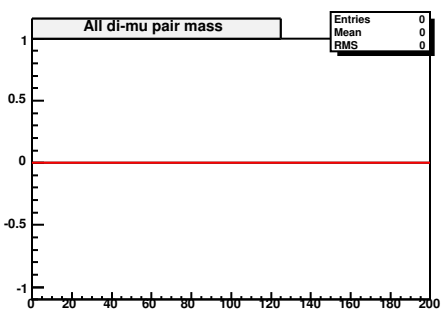

PHI
Entries 2918
Mean 3.147
RMS 1.834

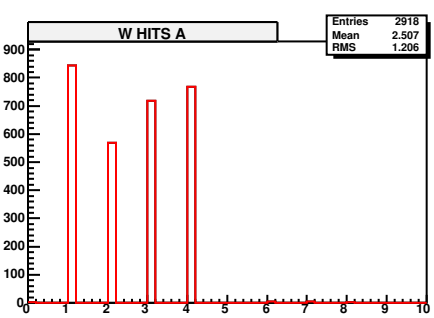

CHISQPERDOF
Entries 2918
Mean 41.92
RMS 123

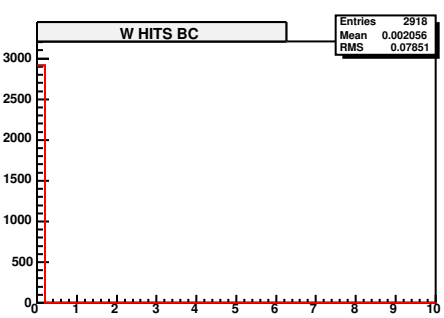

CHISQLOC
Entries 2918
Mean 2.362
RMS 88.08

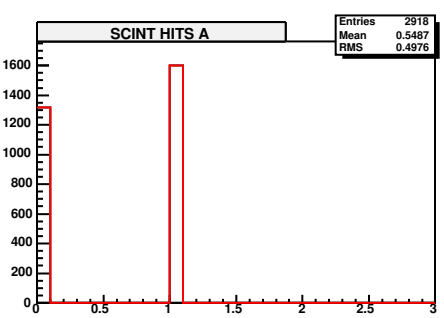

CALHALO
Entries 2918
Mean 7.004
RMS 14.39

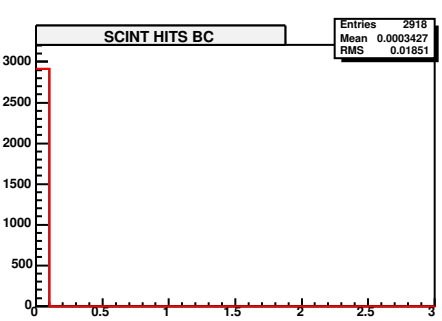

TRACKHALO
Entries 2918
Mean 5.953
RMS 14.29


All di-mu pair mass
Entries 0
Mean 0
RMS 0

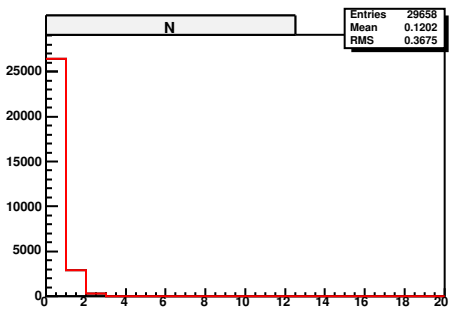

W HITS A
Entries 2918
Mean 2.507
RMS 1.206

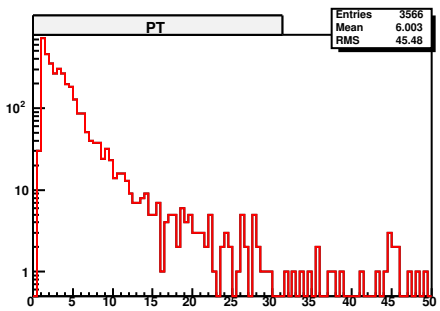

W HITS BC
Entries 2918
Mean 0.002056
RMS 0.07851

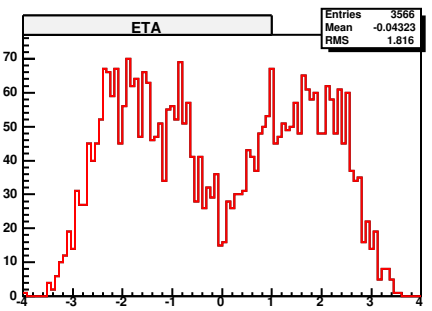

SCINT HITS A
Entries 2918
Mean 0.5487
RMS 0.4976

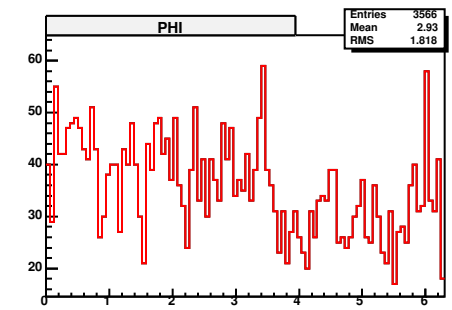

SCINT HITS BC
Entries 2918
Mean 0.0003427
RMS 0.01851

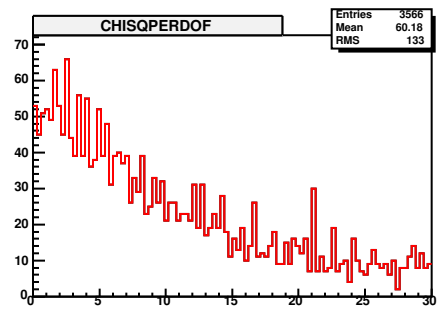
Muons (Astub)

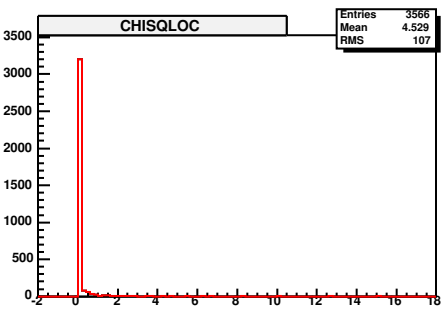


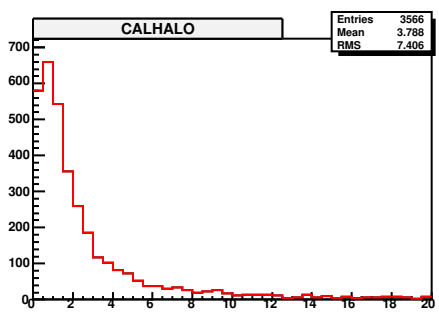


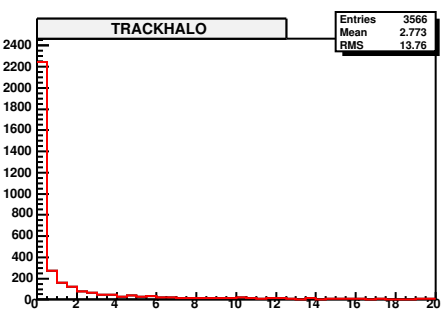


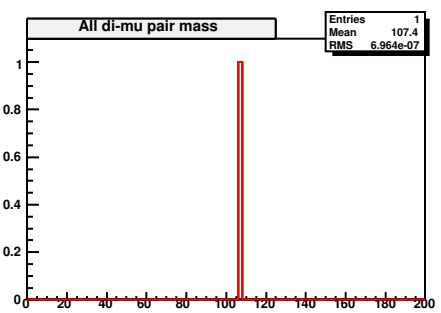


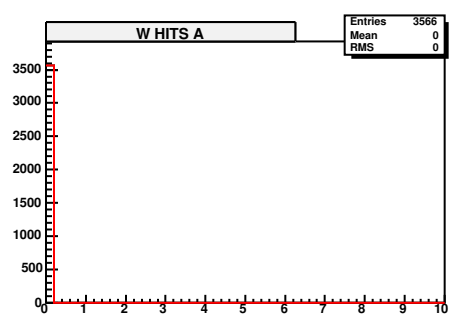


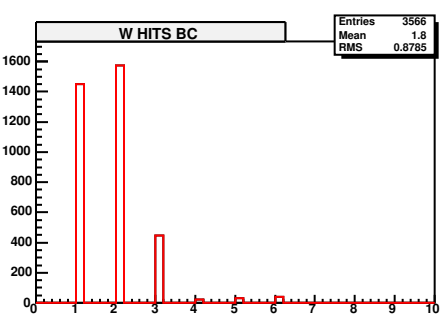


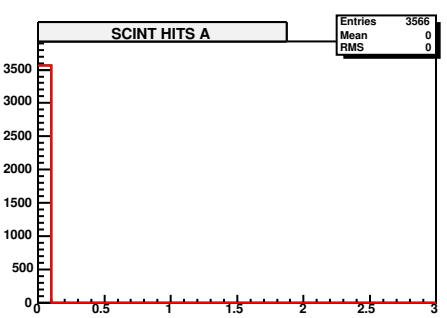


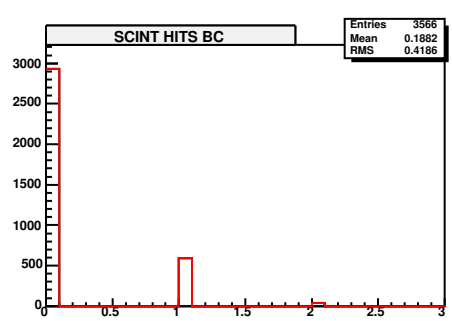




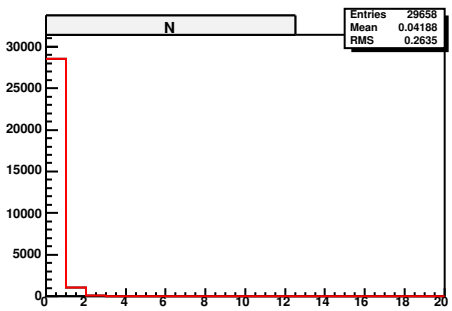


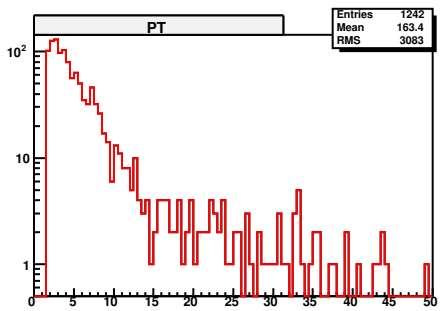


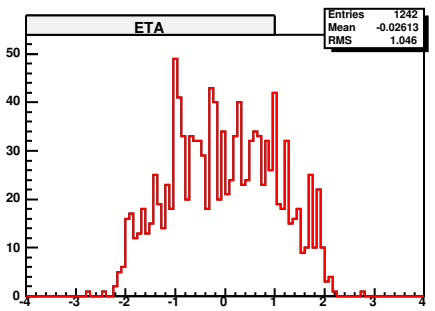


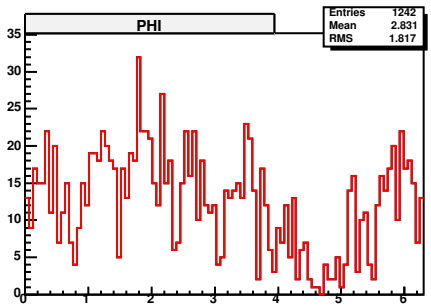


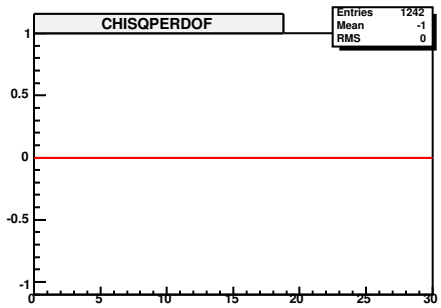
Muons (BCstub)

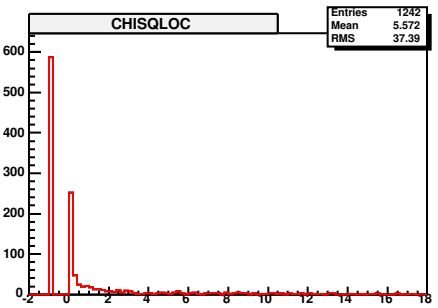


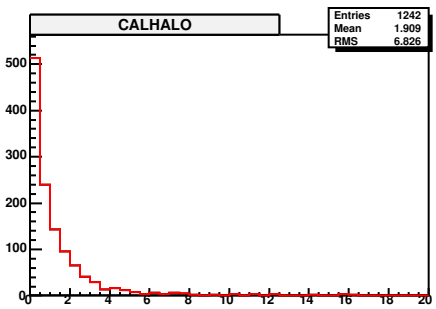


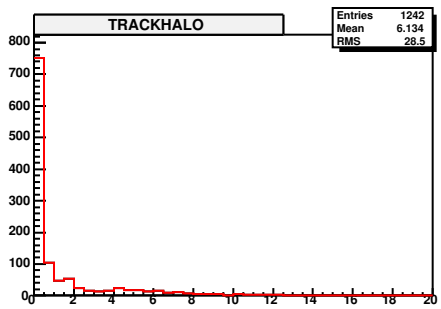


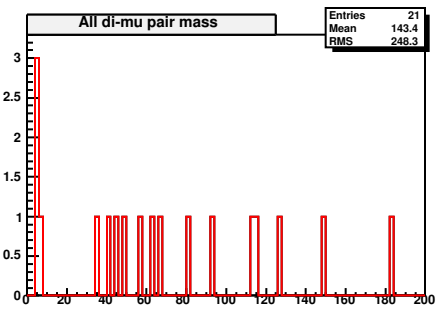


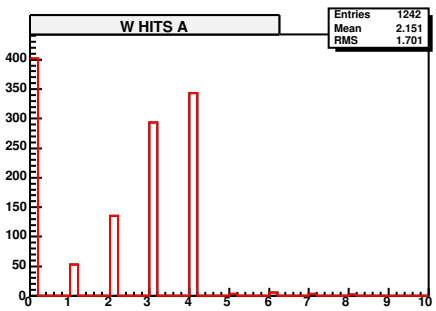


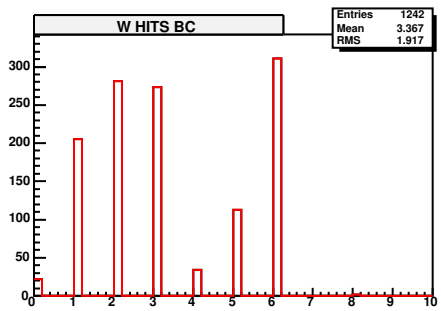


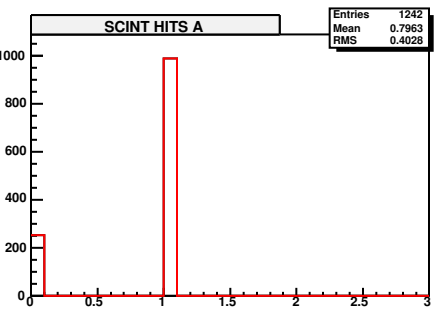


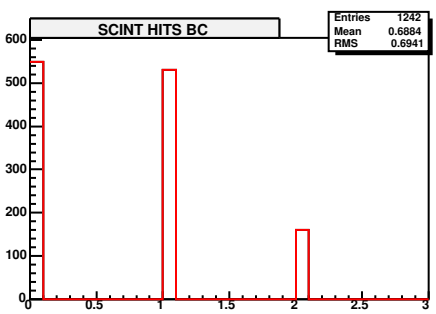




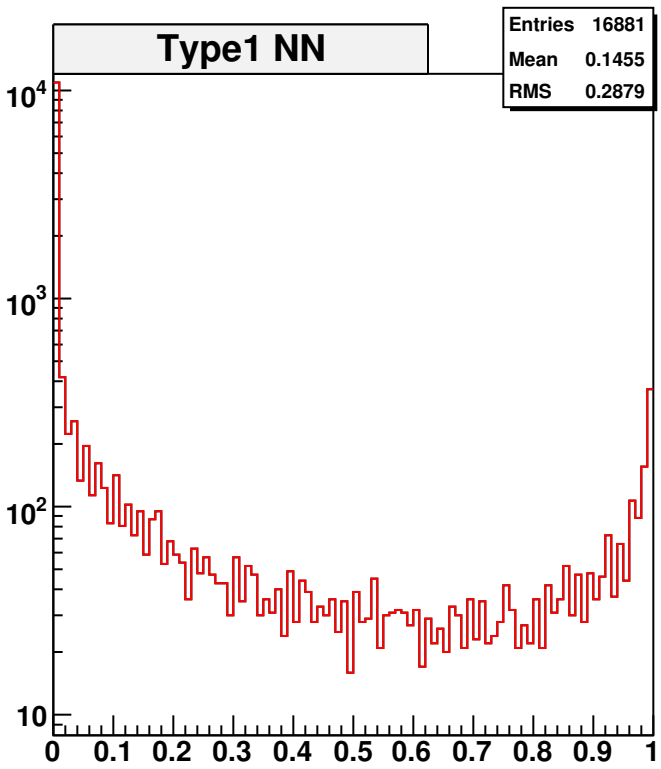


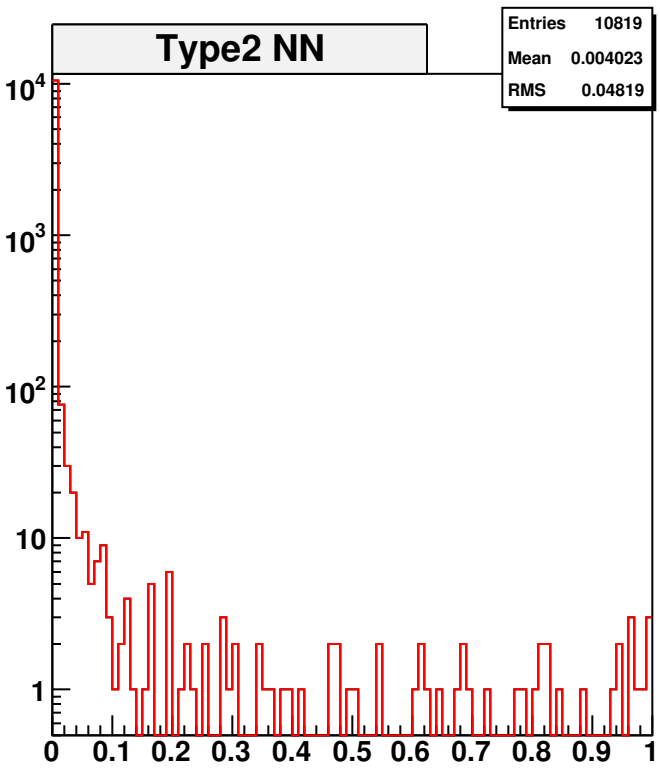


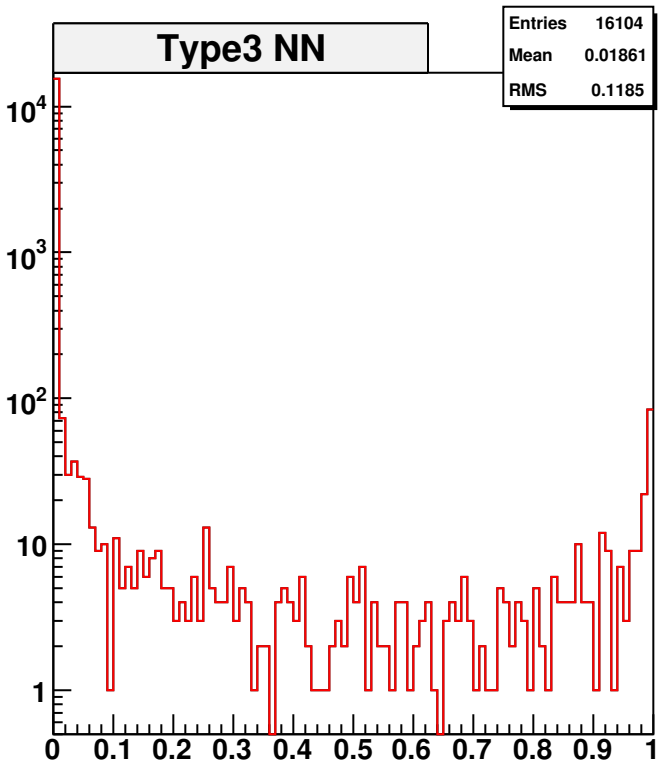


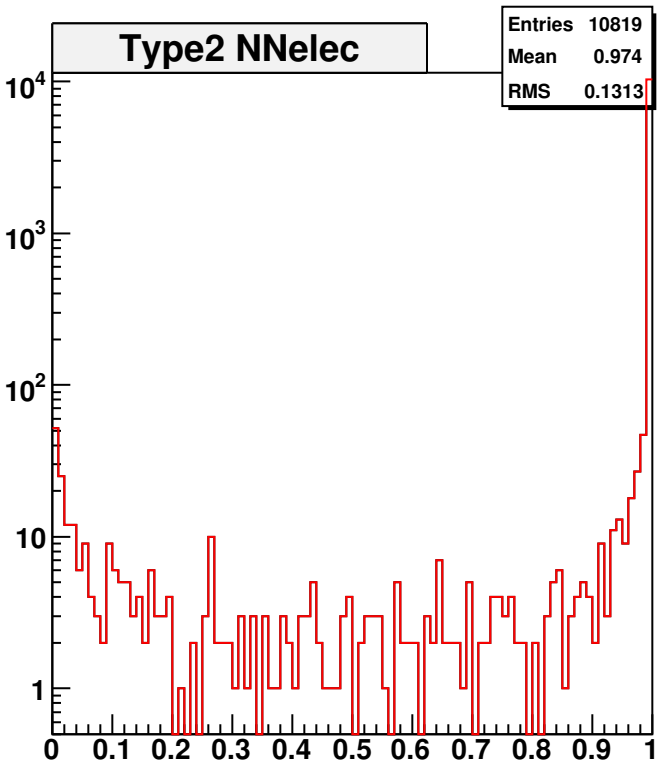


Muons (Unmatched)

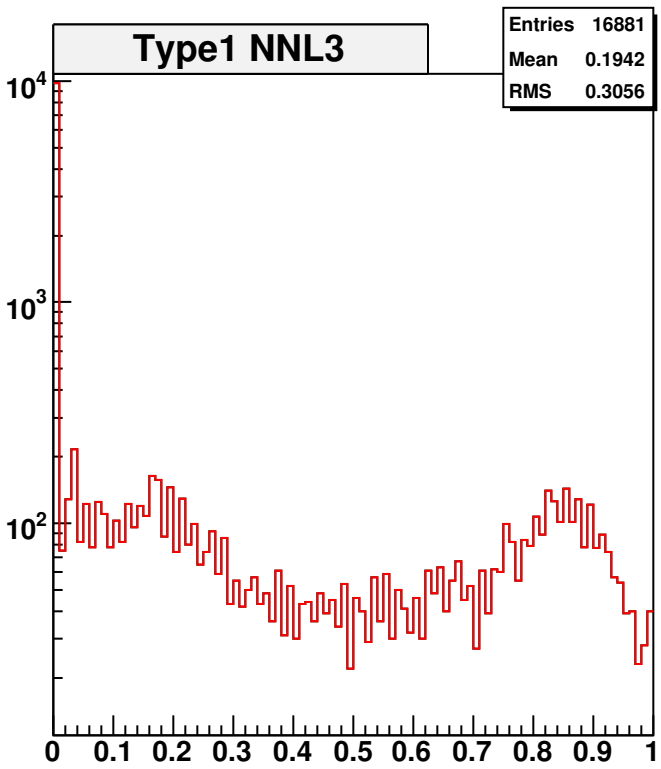


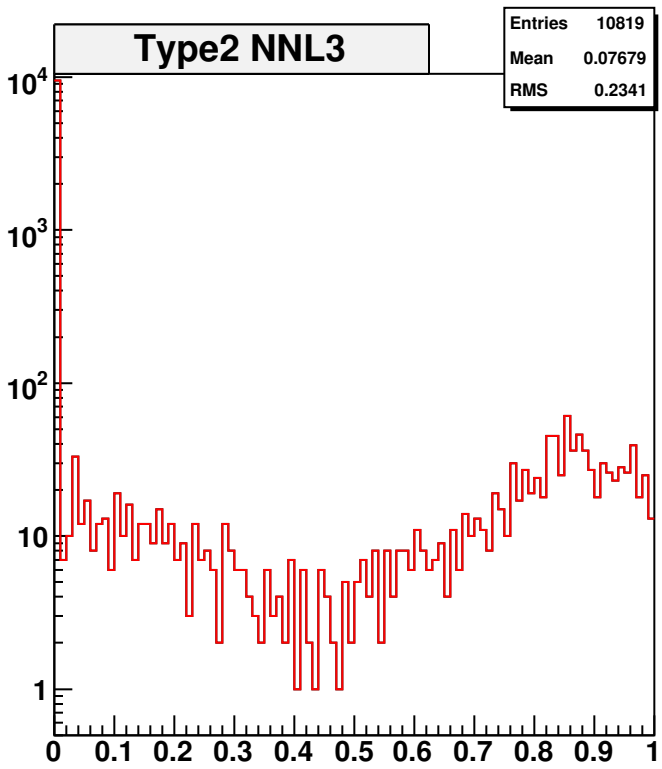


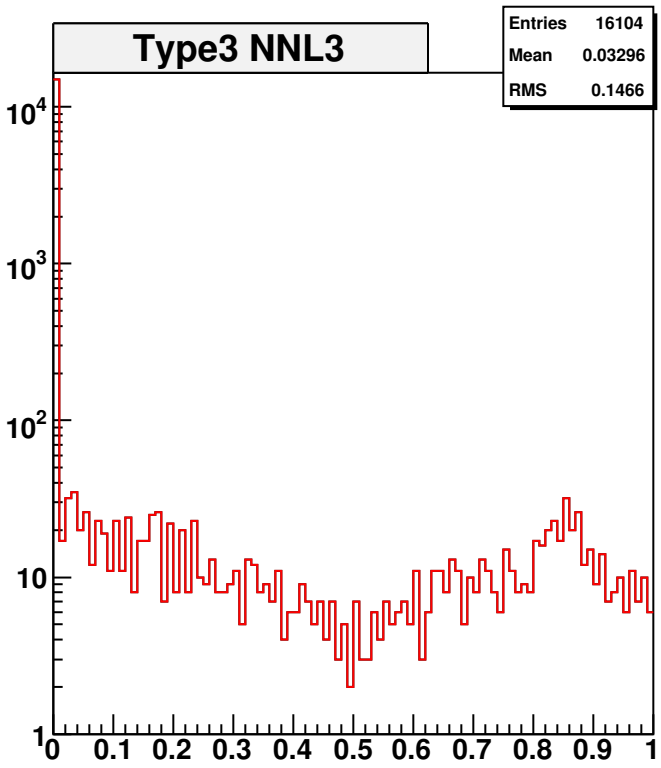


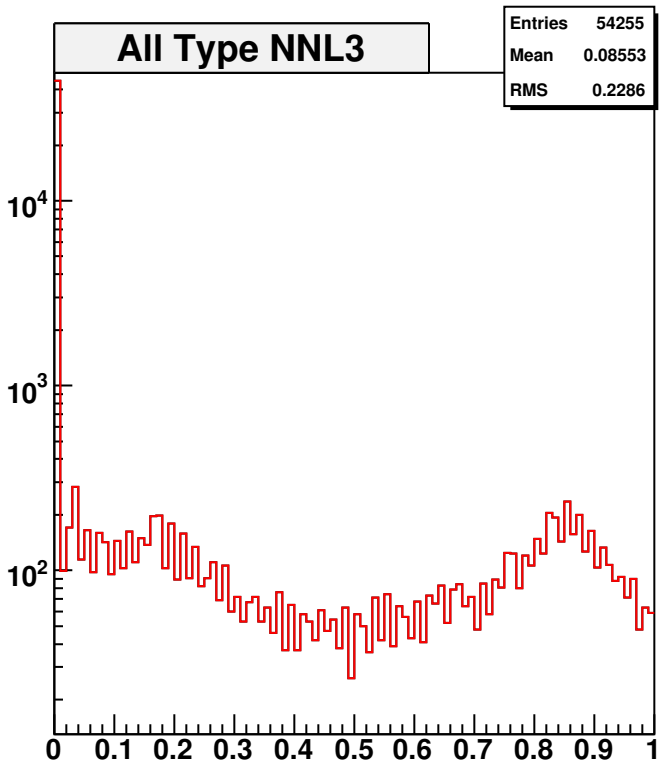


Taus NN (TAU All)

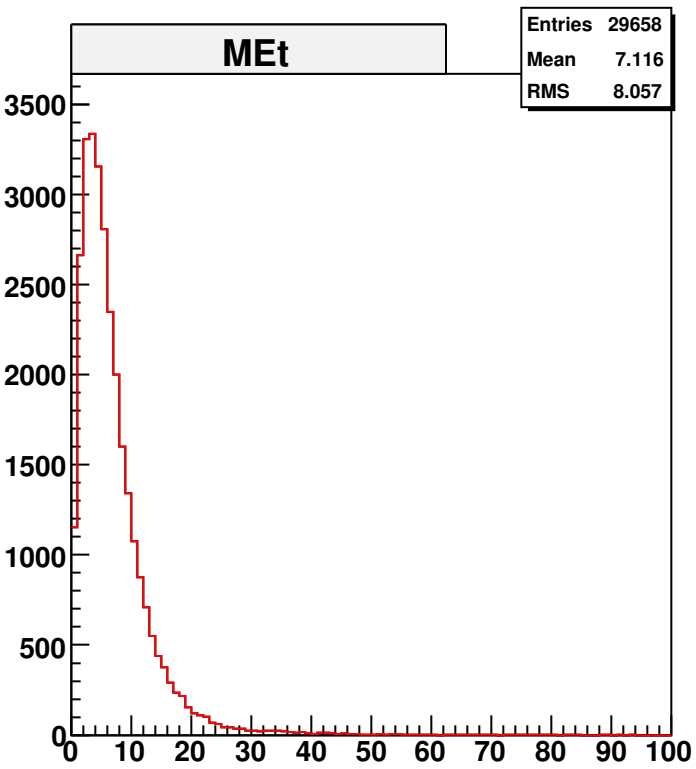


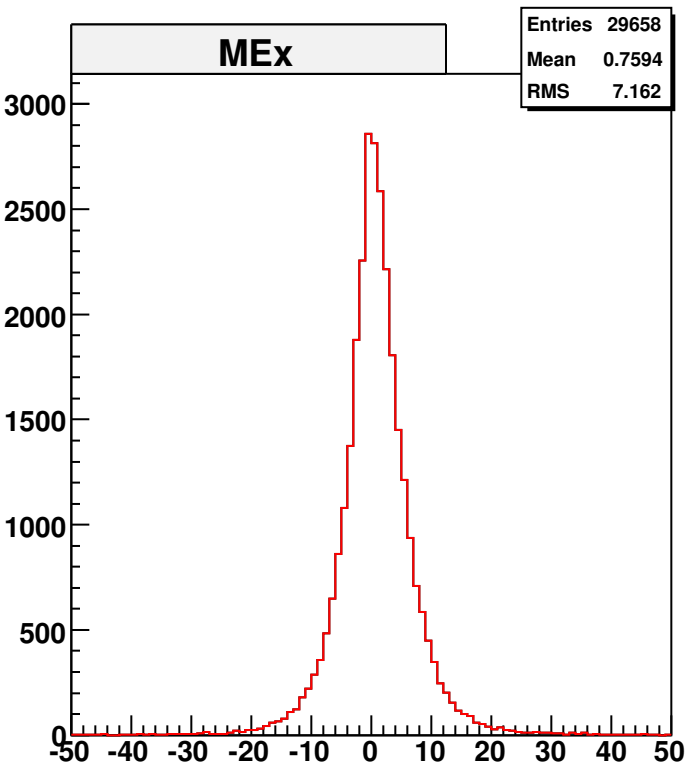






Taus NNL3 (TAU All)


MEt
Entries 29658
Mean 7.116
RMS 8.057
3500
3000
2500
2000
1500
1000
500
0
0 10 20 30 40 50 60 70 80 90 100


MEx
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RMS 7.162
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2500
2000
1500
1000
500
0
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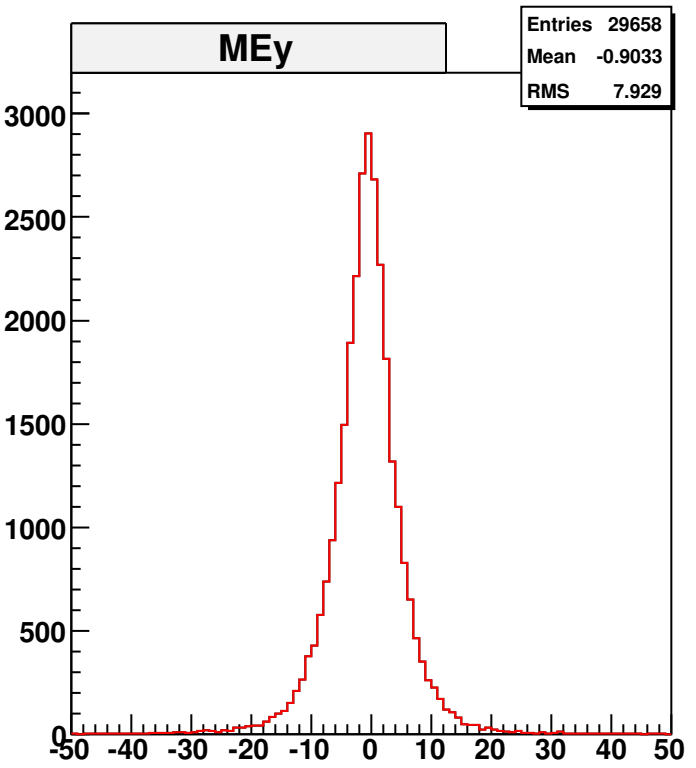
MEy
Entries 29658
Mean -0.9033
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3000
2500
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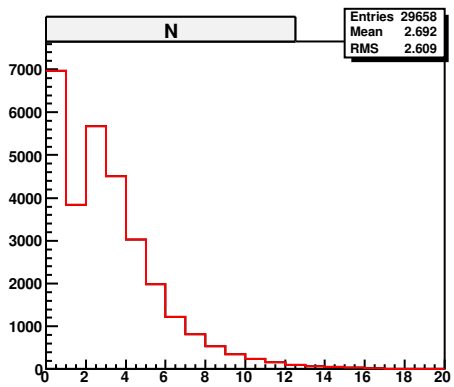
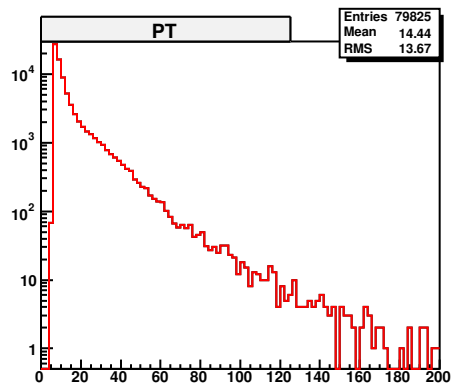
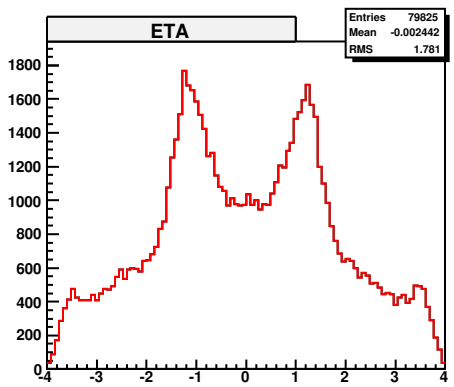
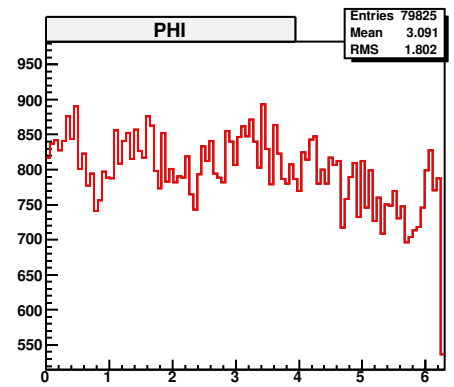
1500
1000
500
0
-50 -40 -30 -20 -10 0 10 20 30 40 50

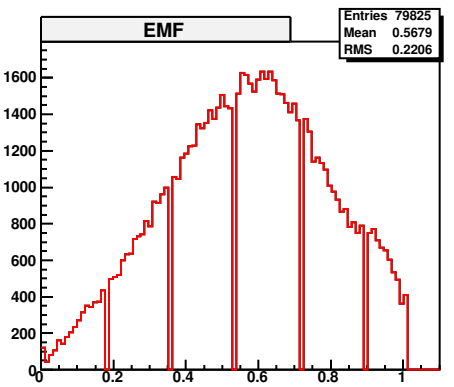
Met (No cuts)

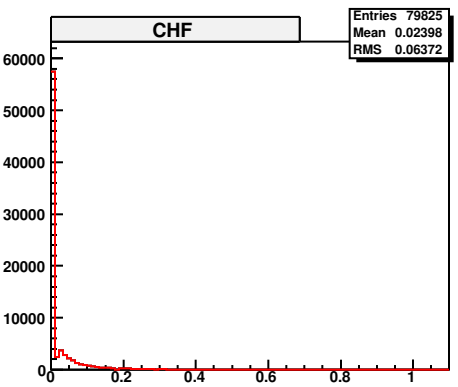


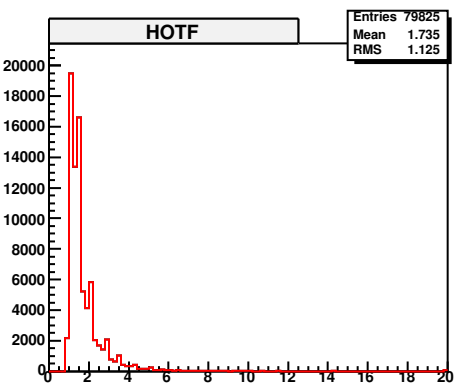


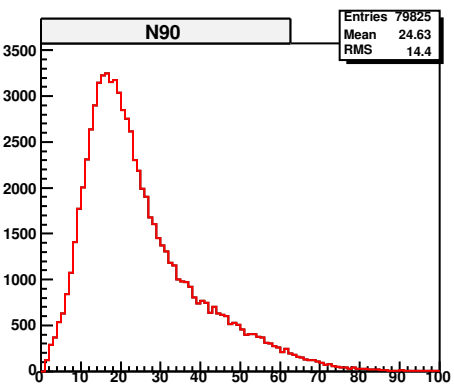


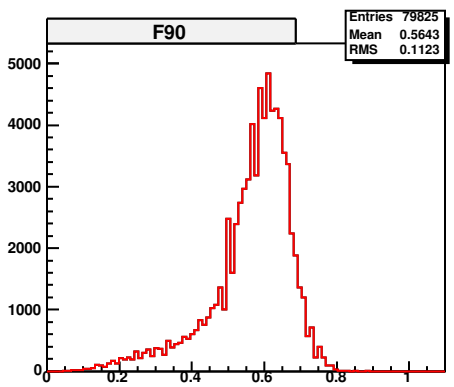


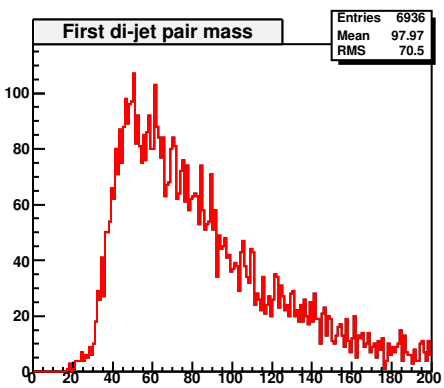


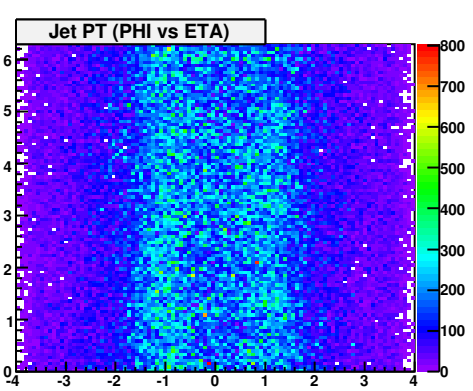




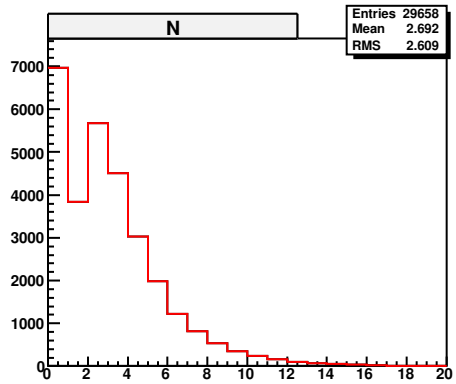


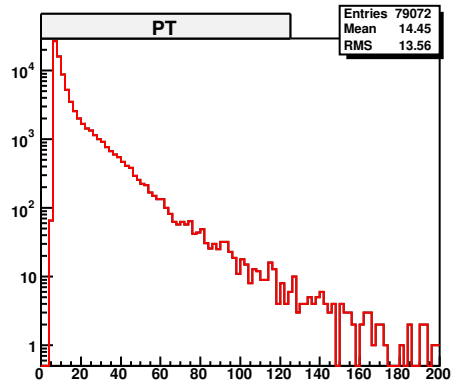


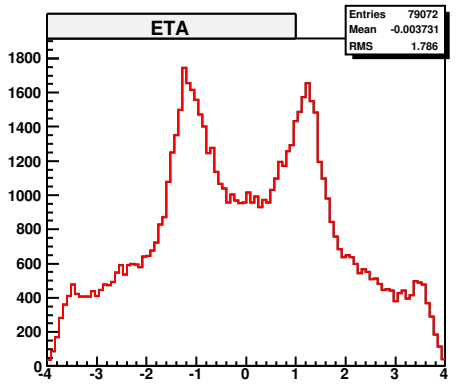


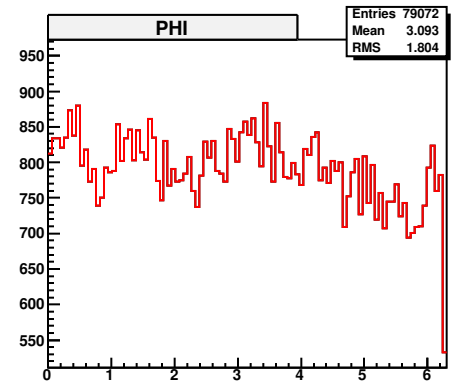


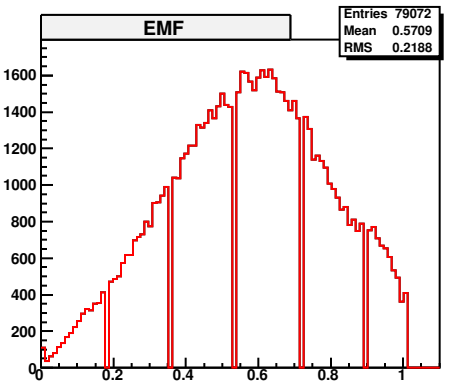
Jets (Cone R 0.7 (no cuts))

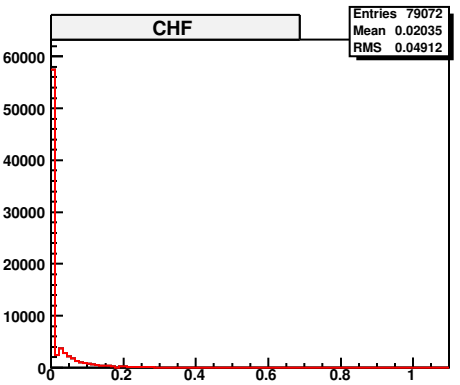


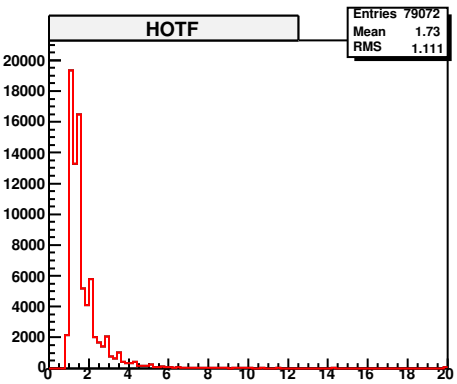


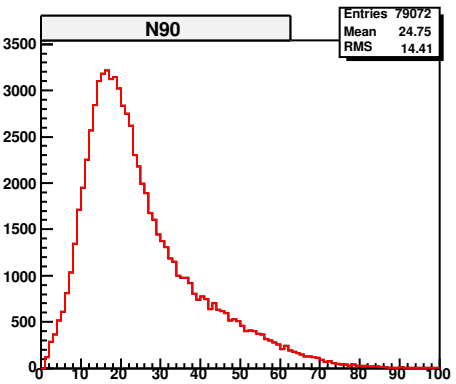


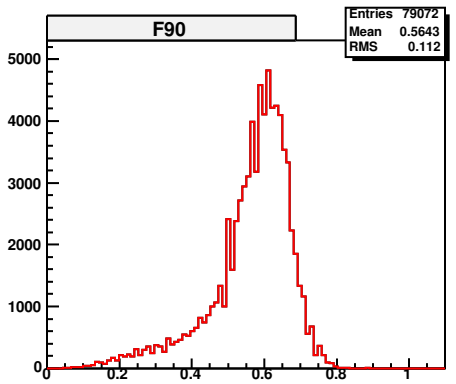


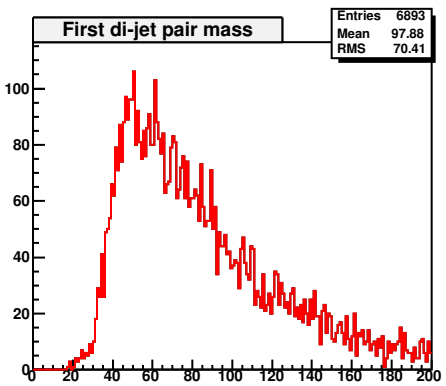


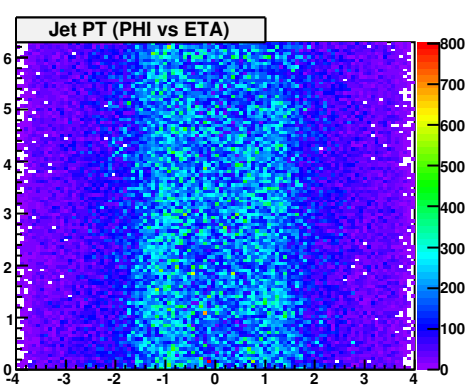




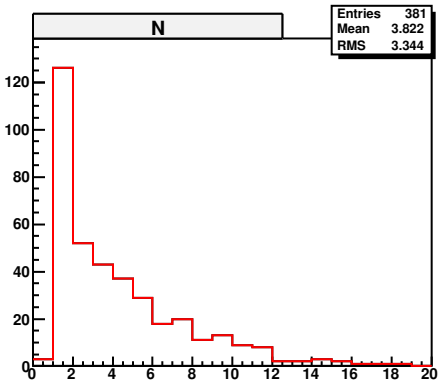


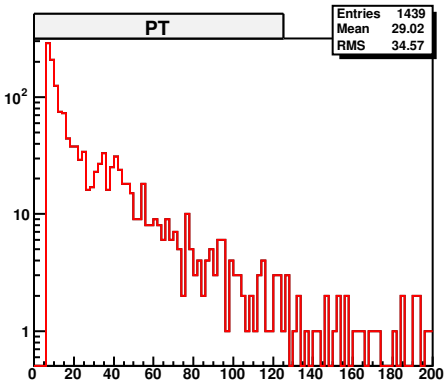


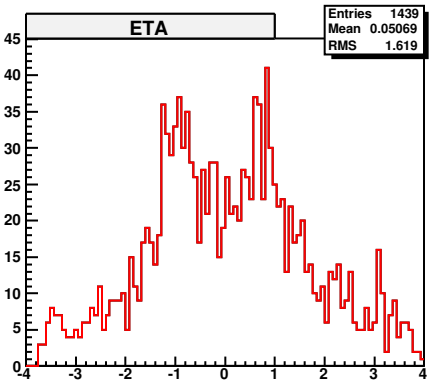


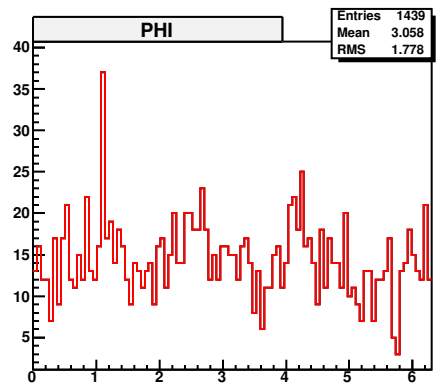


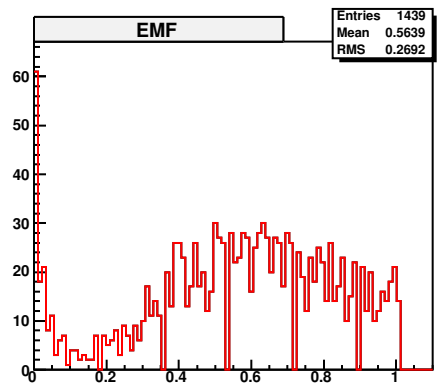
Jets (Cone R 0.7 (standard cuts))

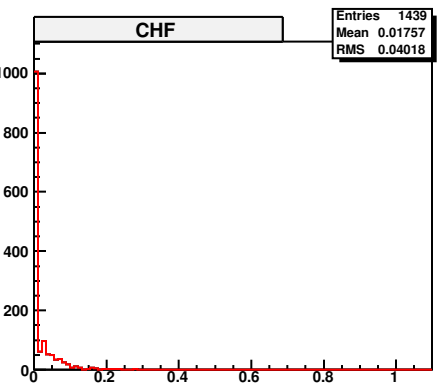


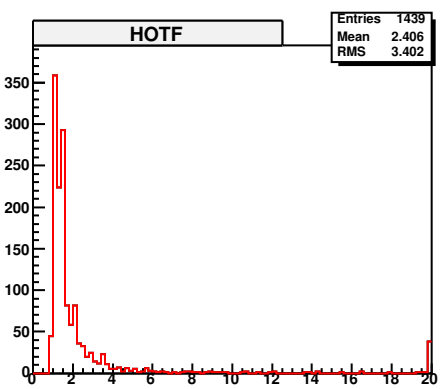


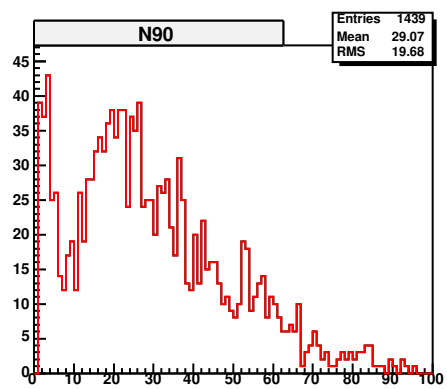


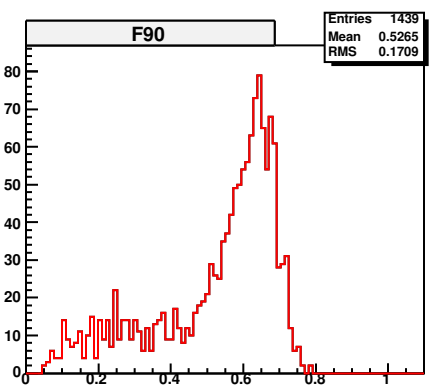


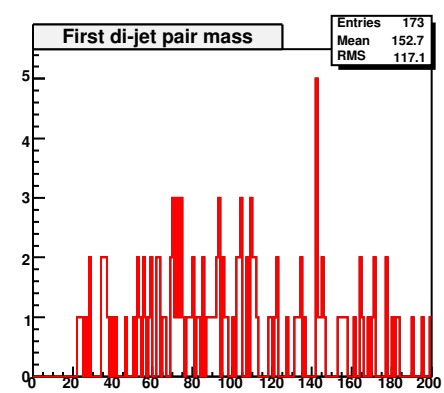


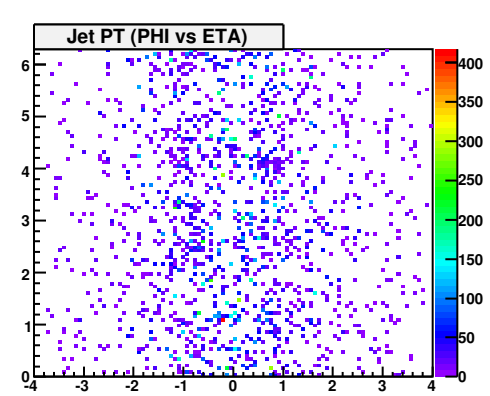




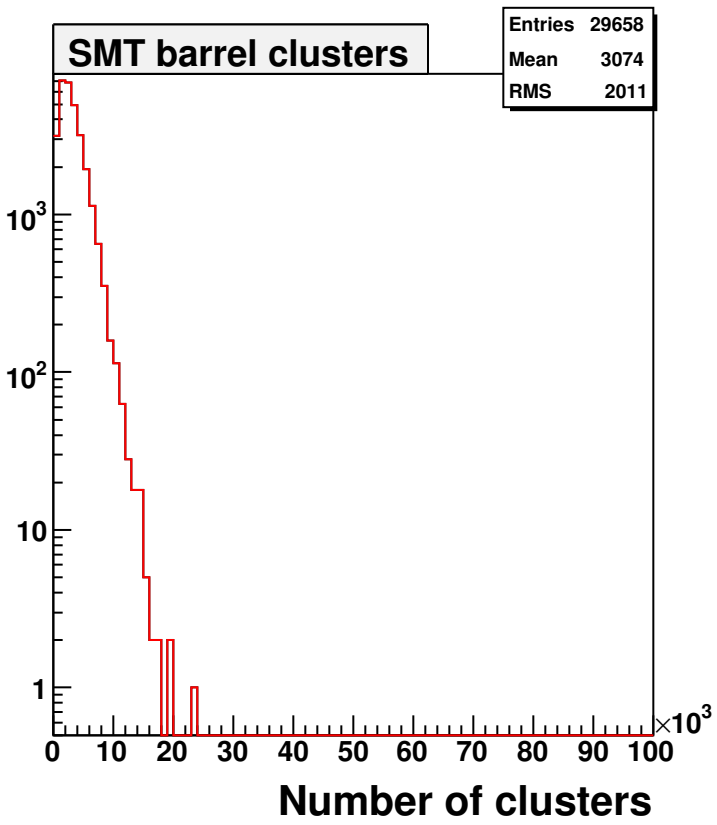


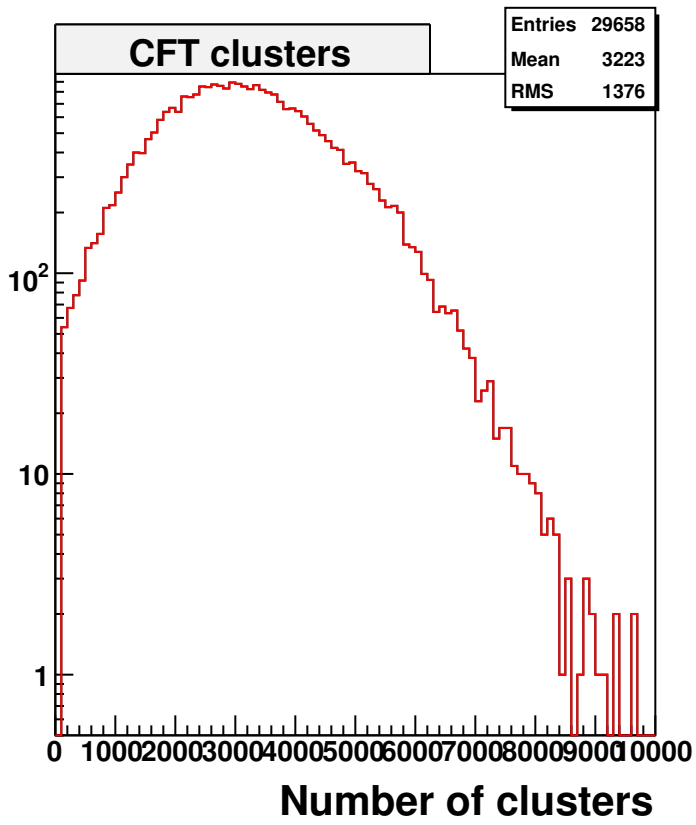


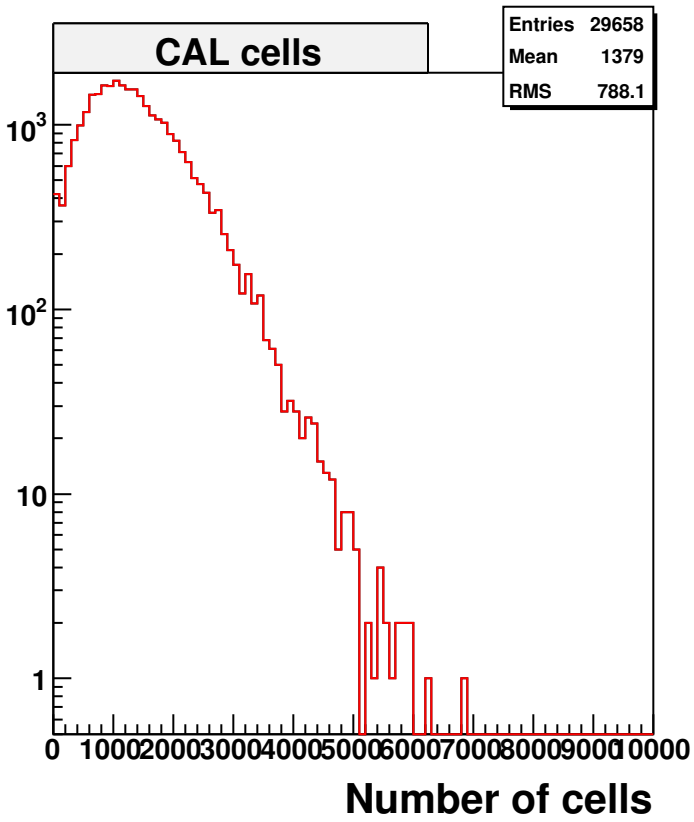


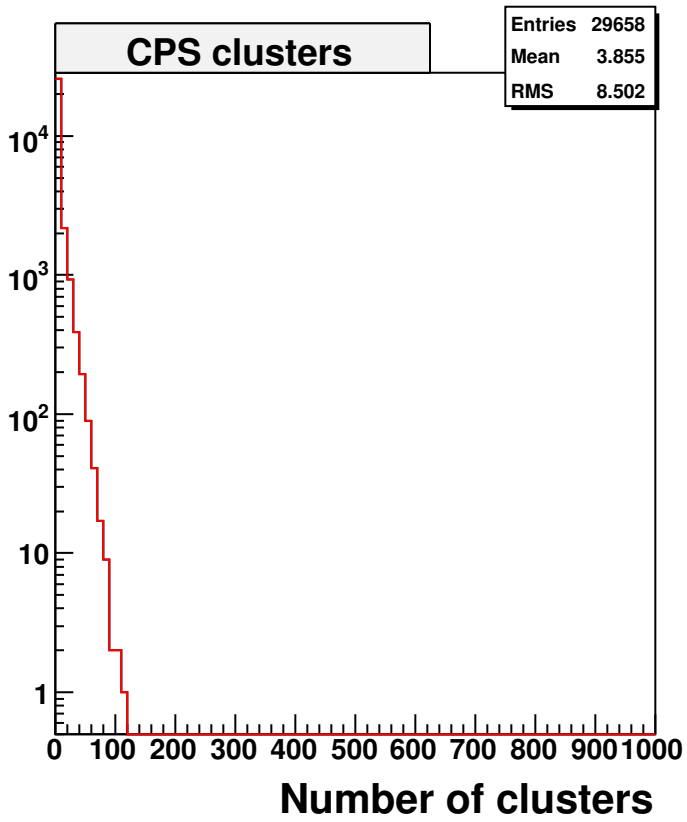


Jets (Cone R 0.7 (standard cuts, MET>30))

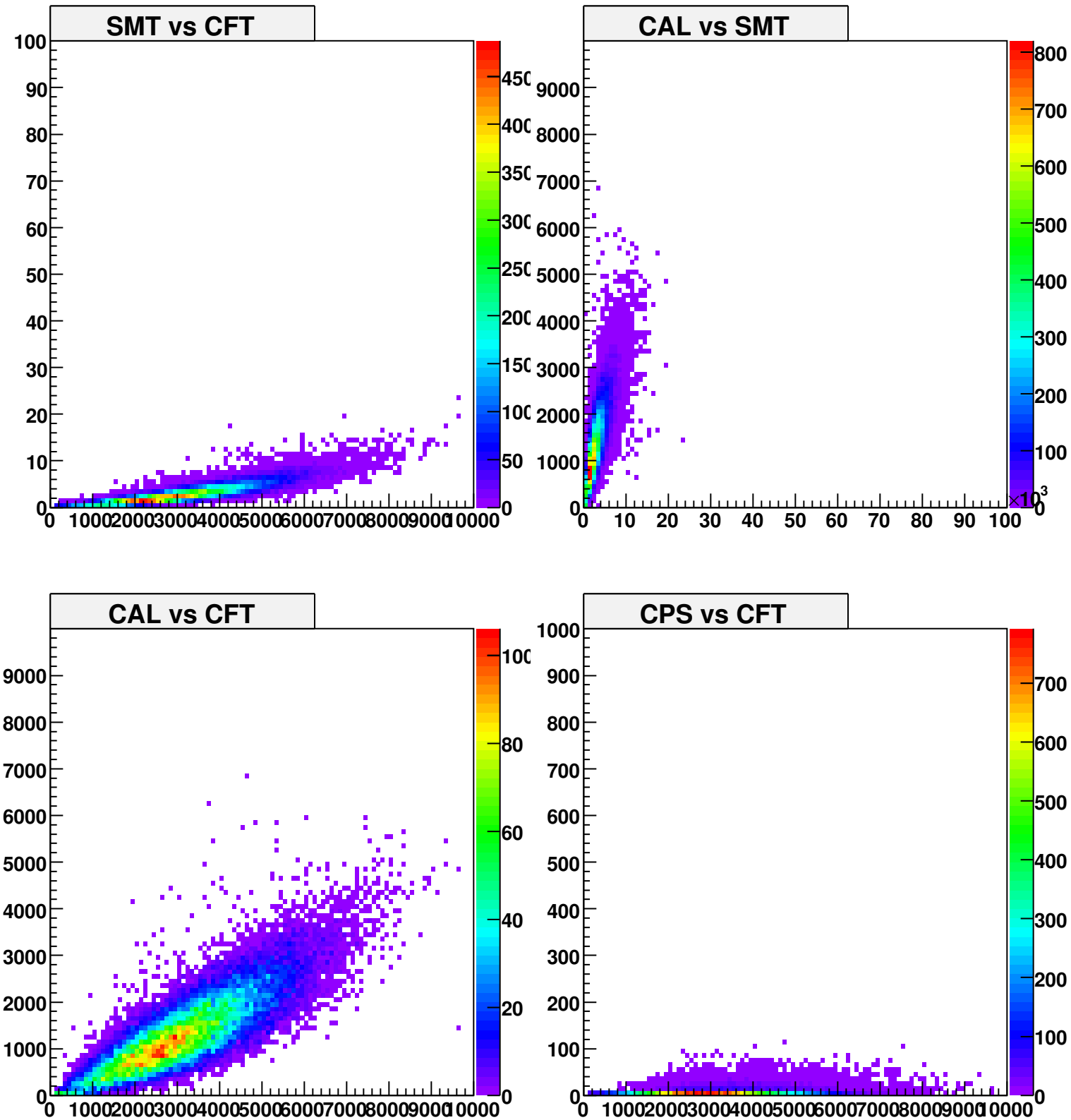


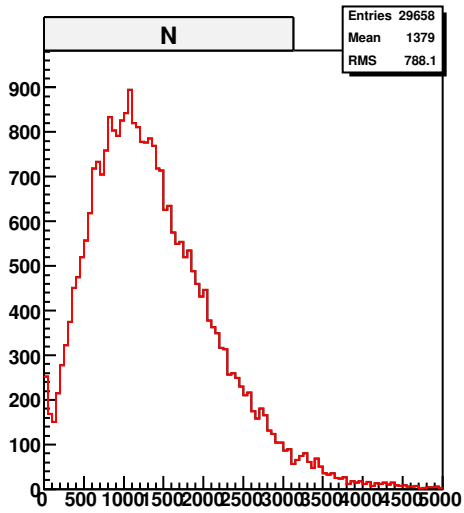


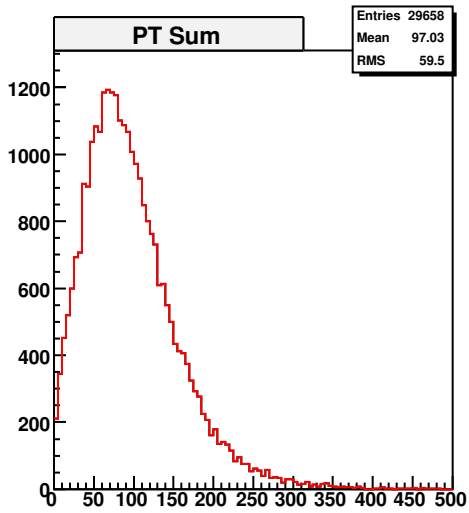


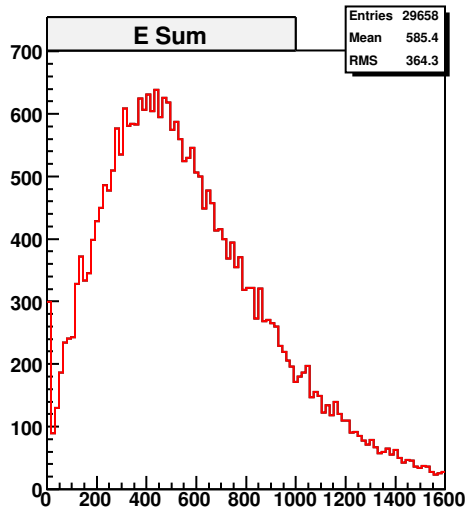


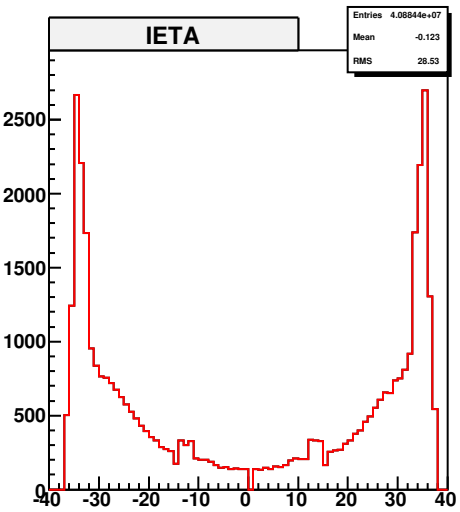
Detector Occupancy (Detector)

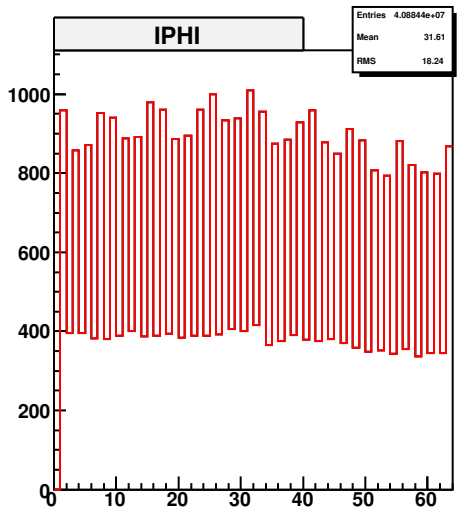

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

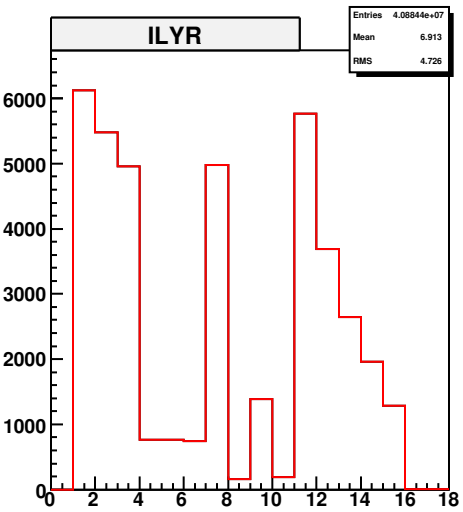


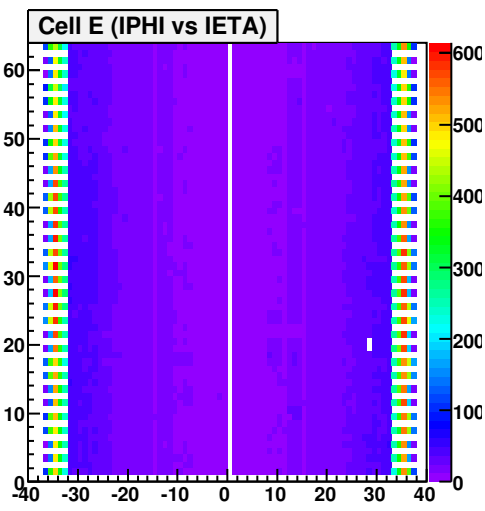


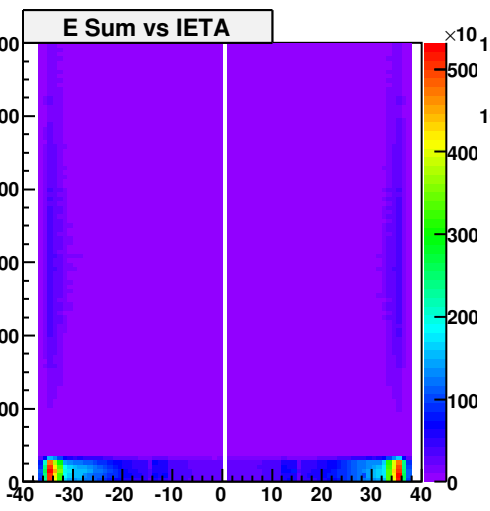


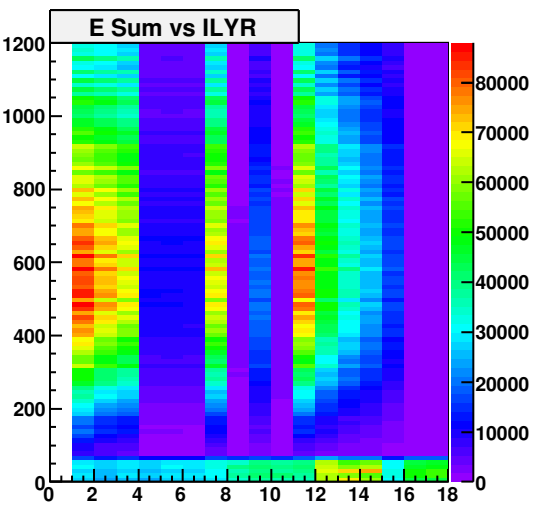




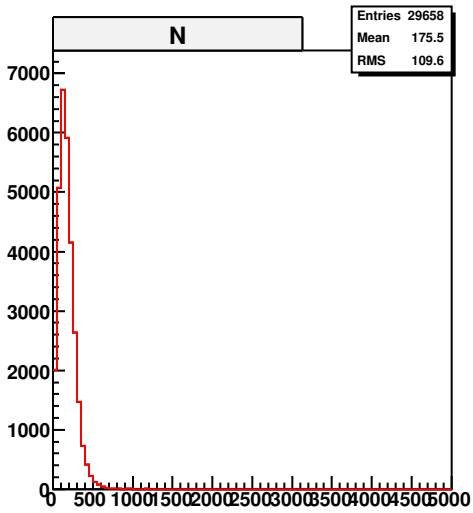


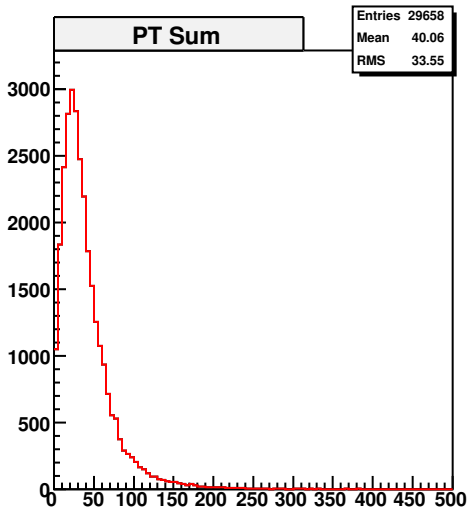


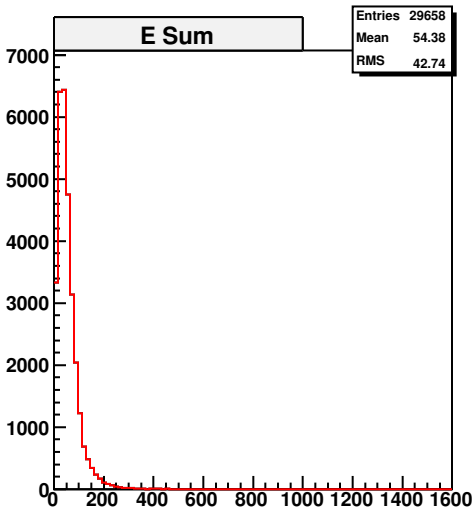


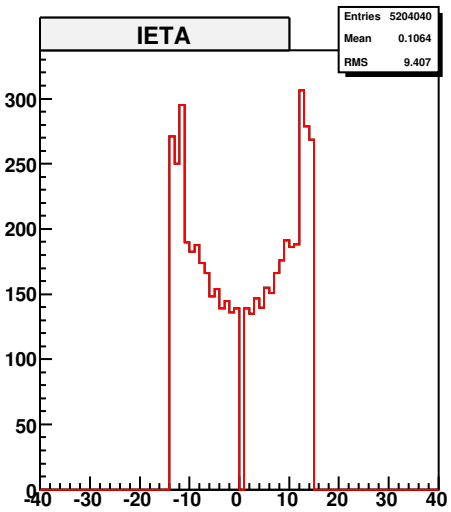


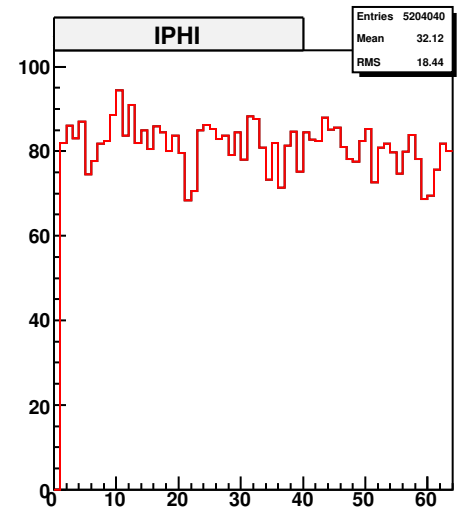
Calorimeter (All cells)

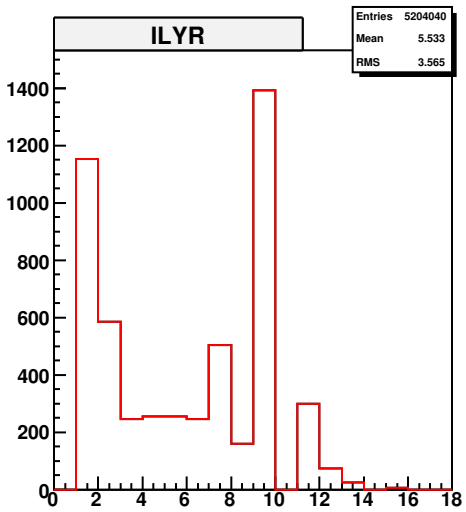


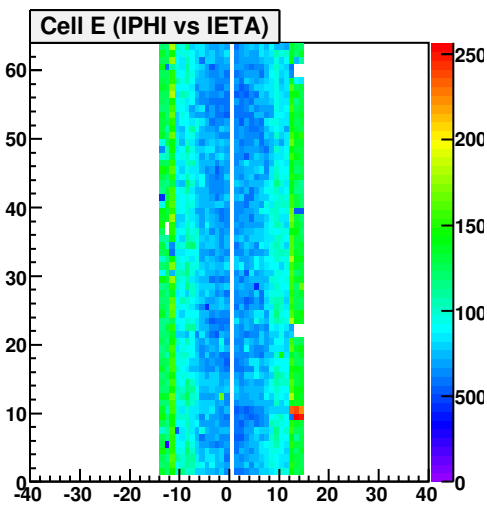


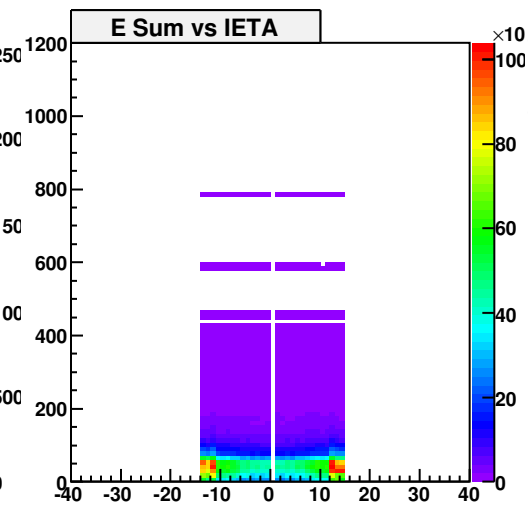


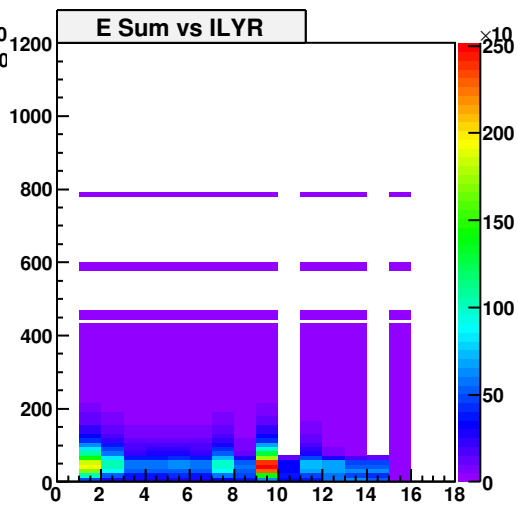




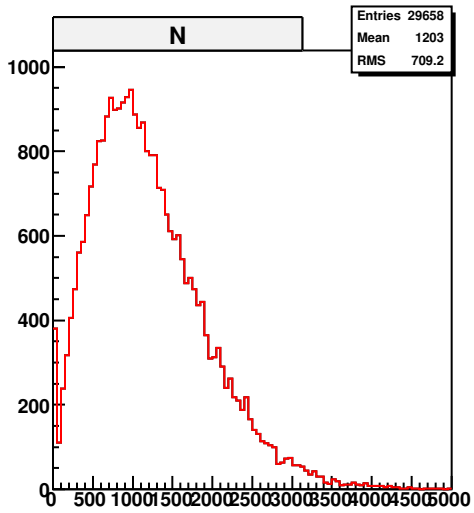


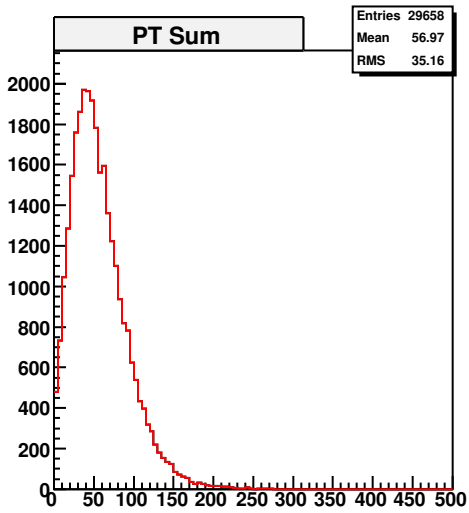


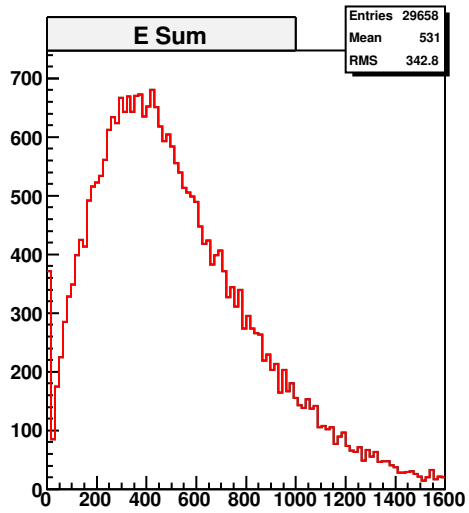


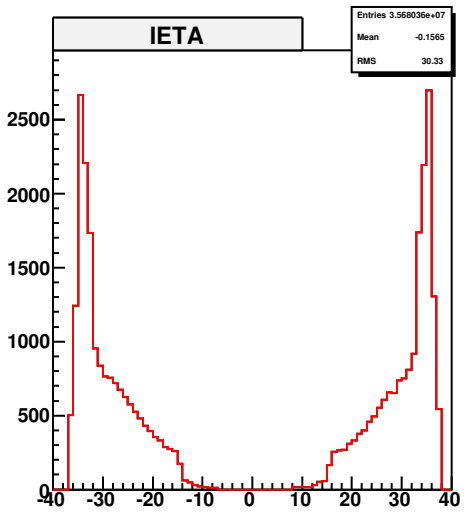


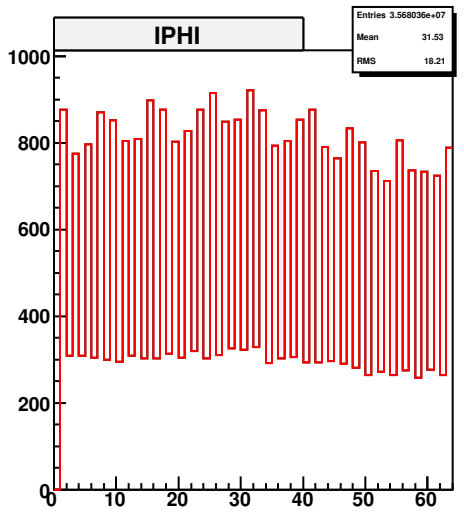
Calorimeter (All CC cells)

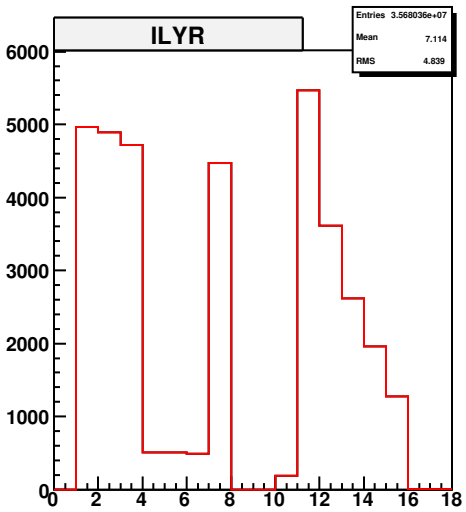


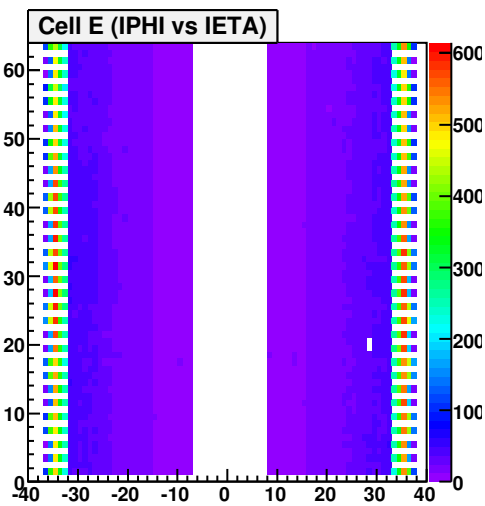


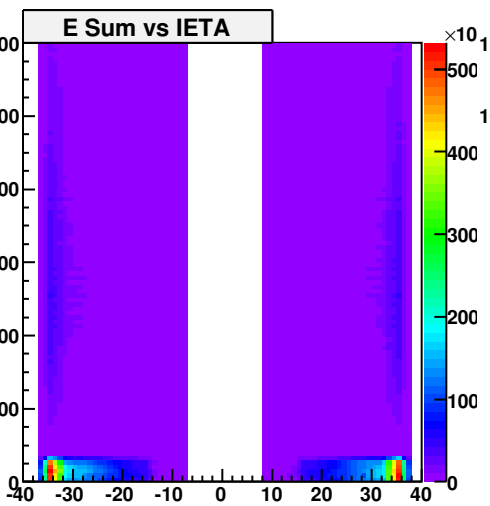


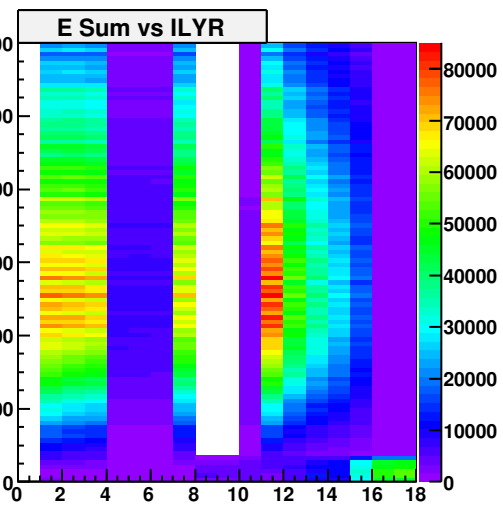




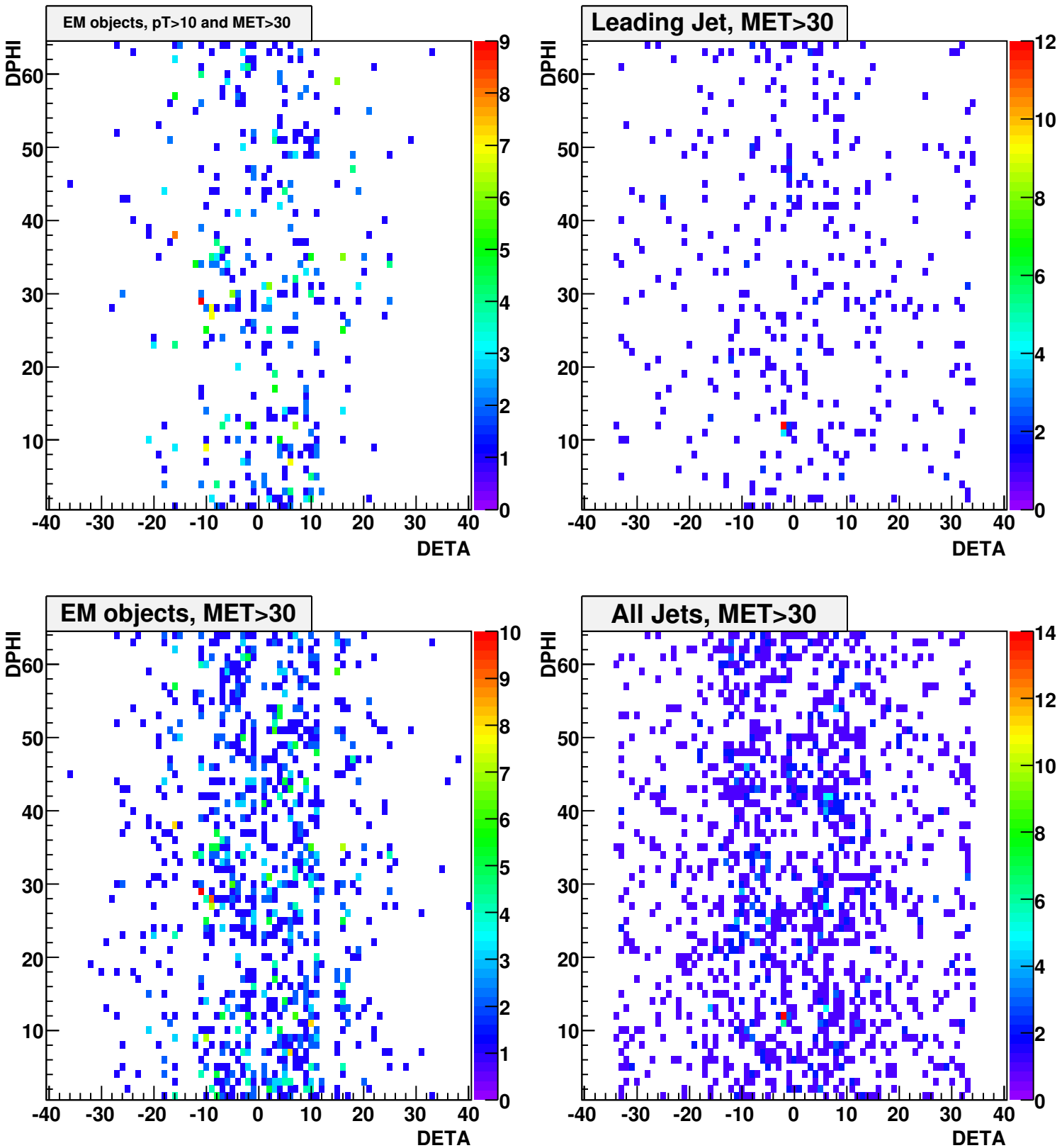




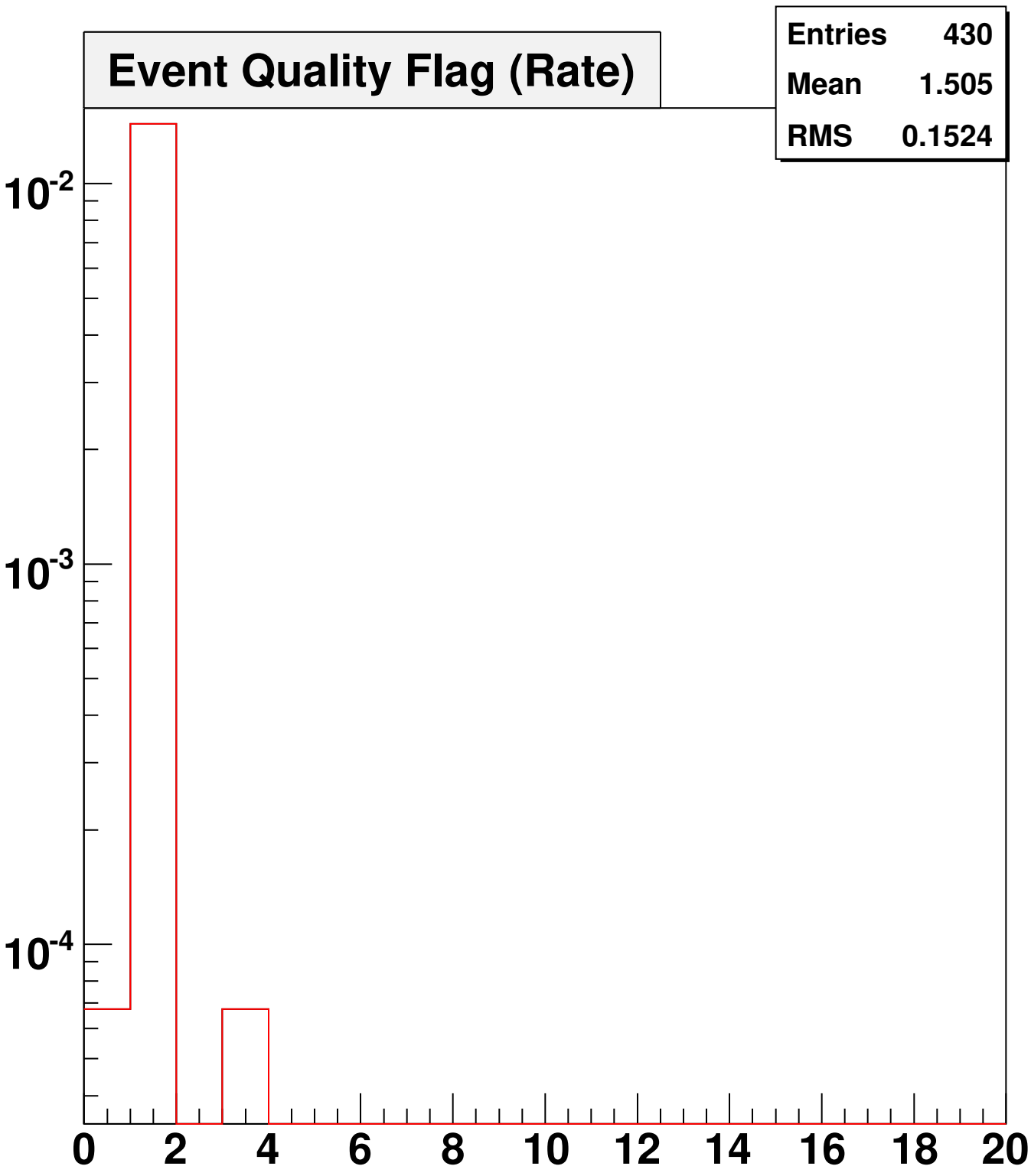


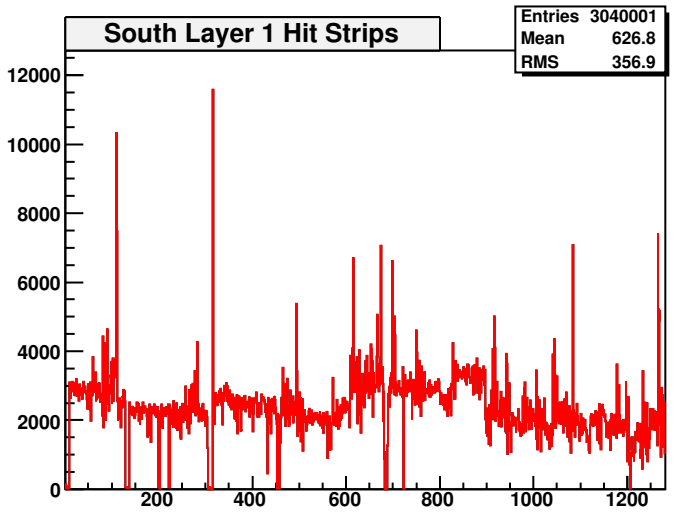


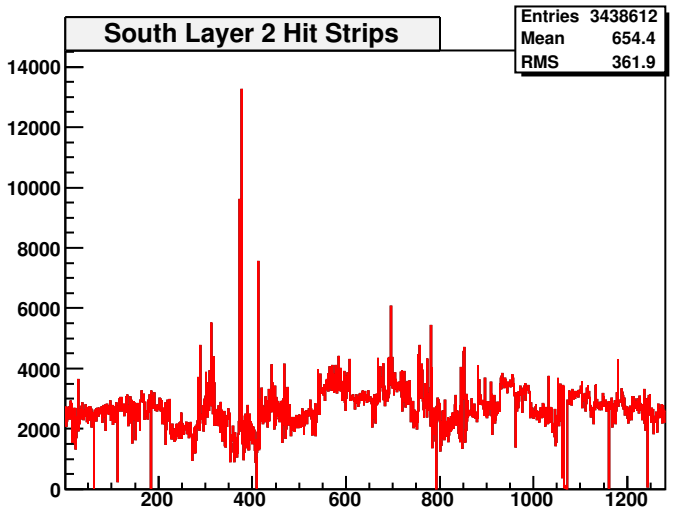
Calorimeter (All EC cells)

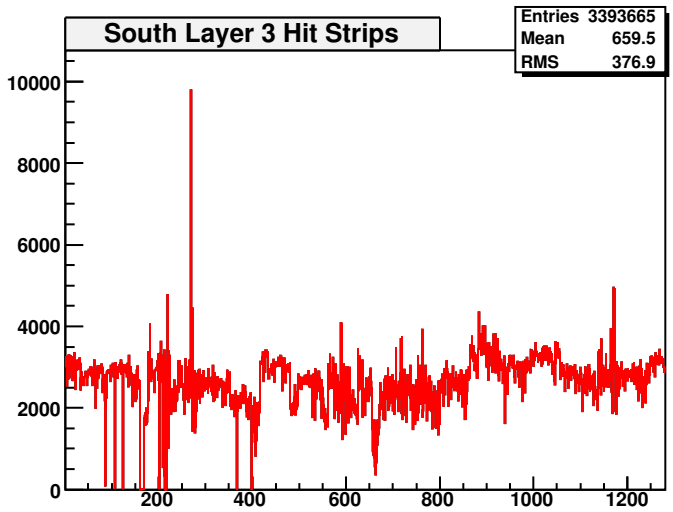


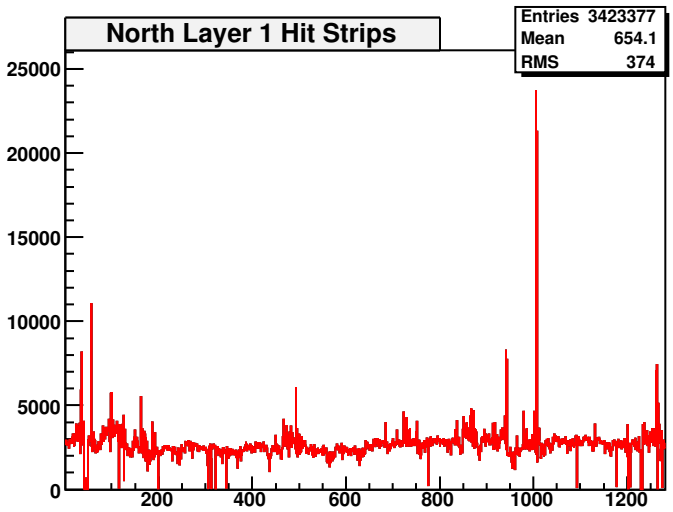
Cal Objects with MET>30 (All cells)

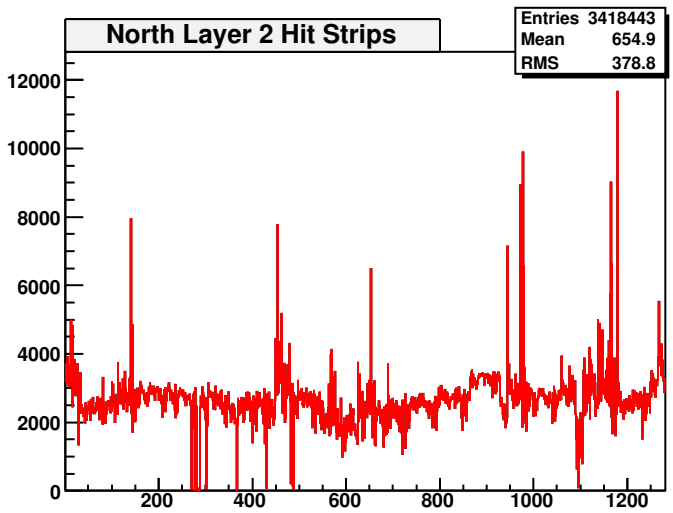

Event Quality Flag (Rate)
Entries 430
Mean 1.505
RMS 0.1524
10-2
10-3
10-4
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

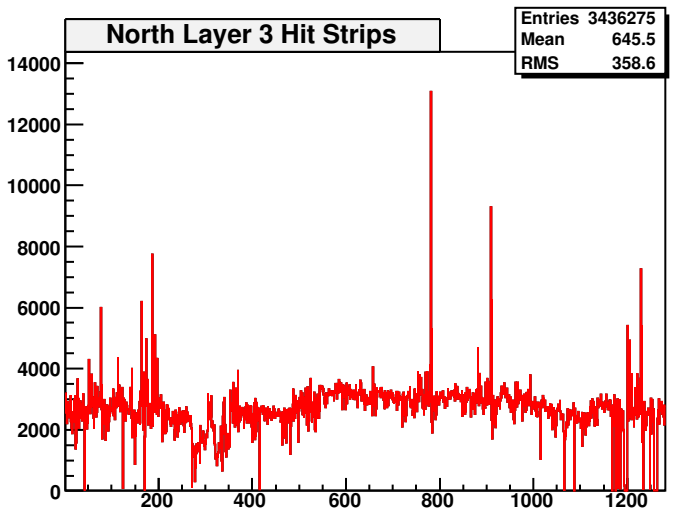




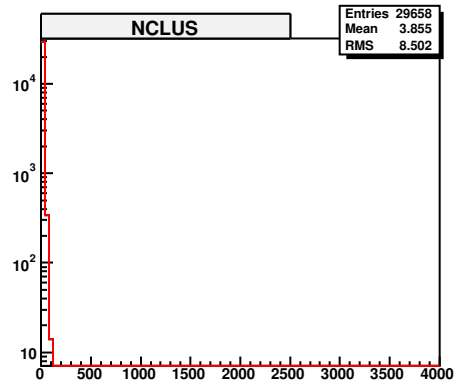


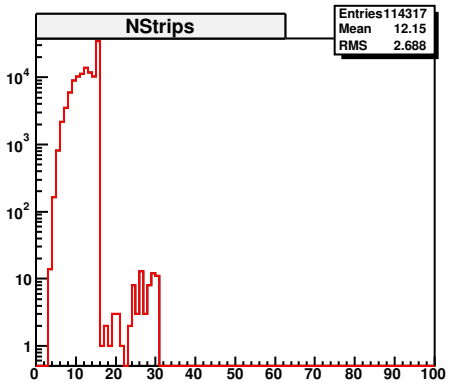


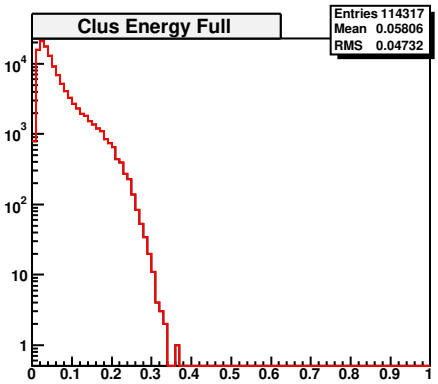


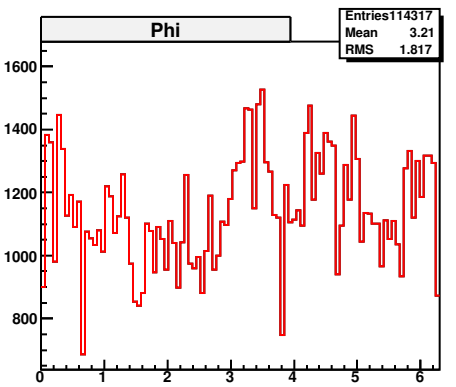


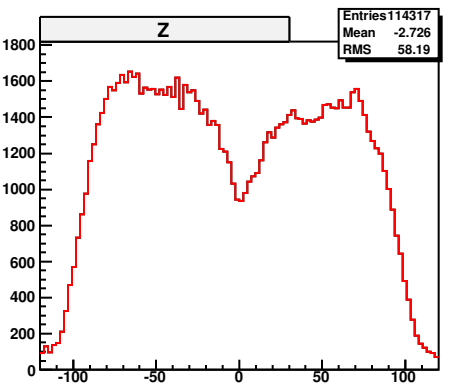
CPS Hit Strips (All Clusters)

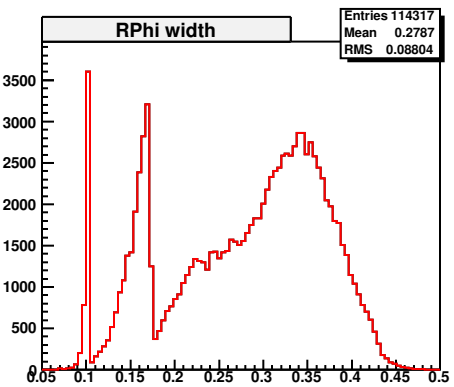


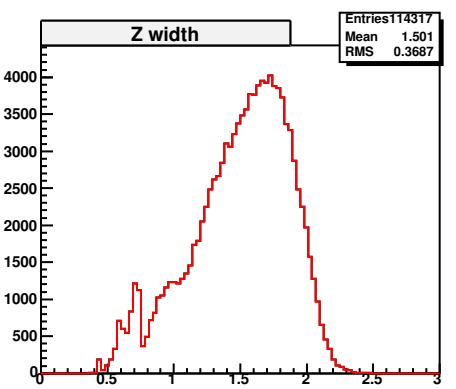


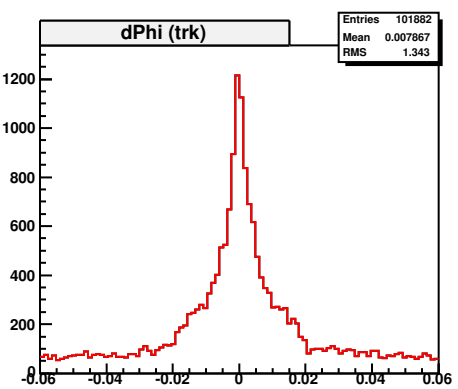


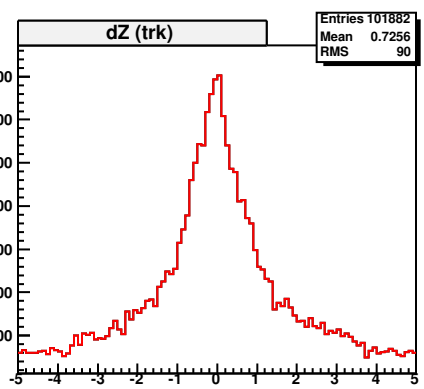


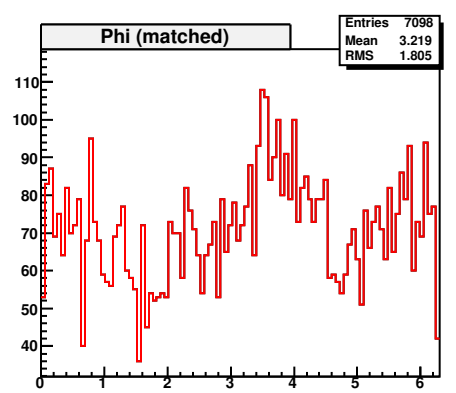


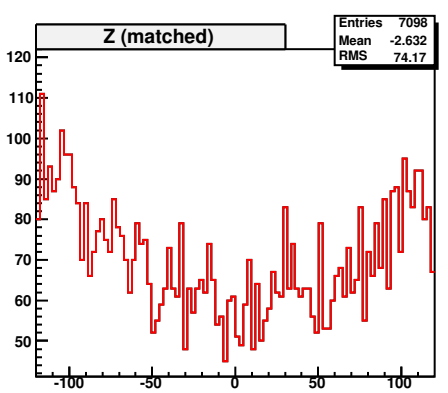




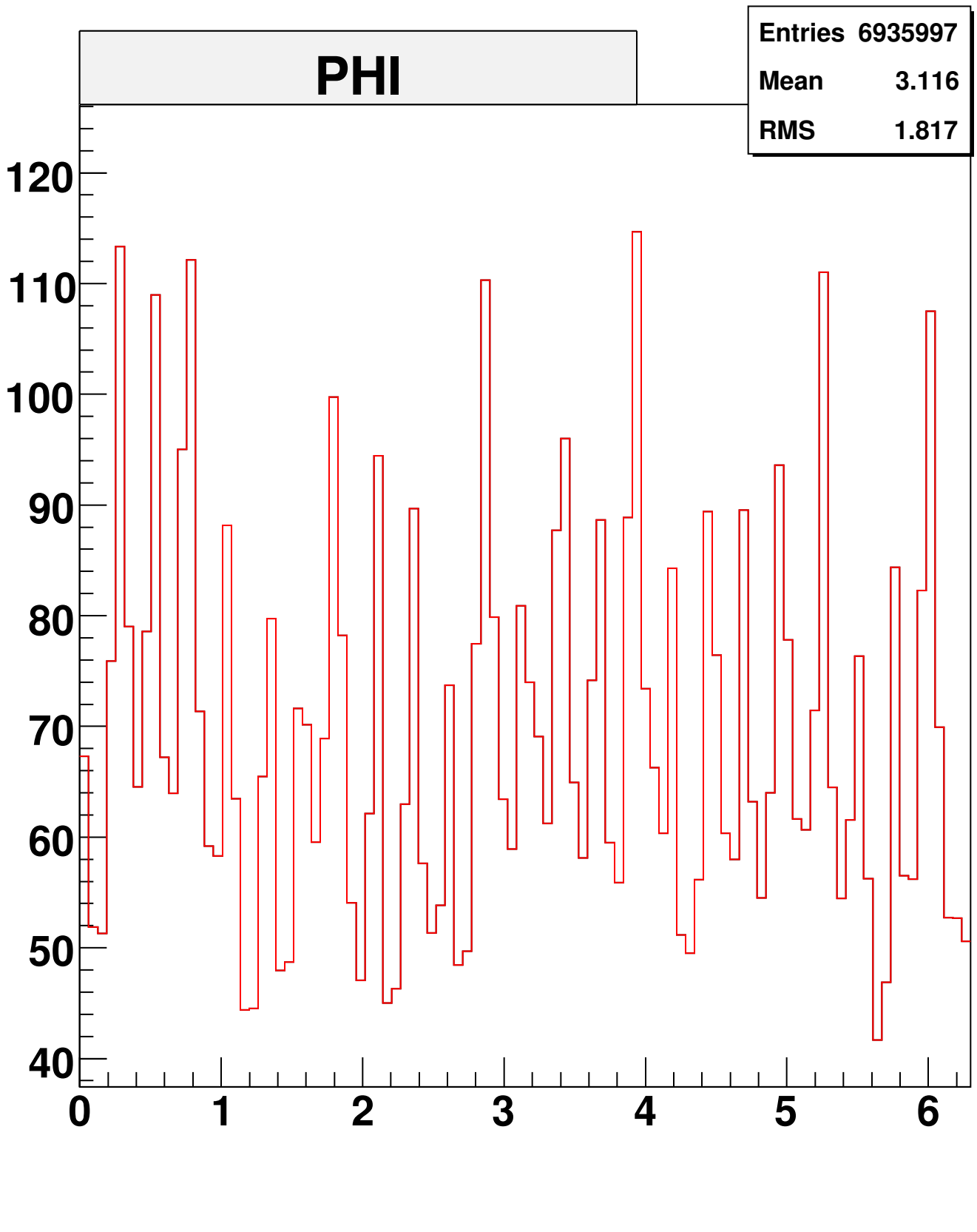


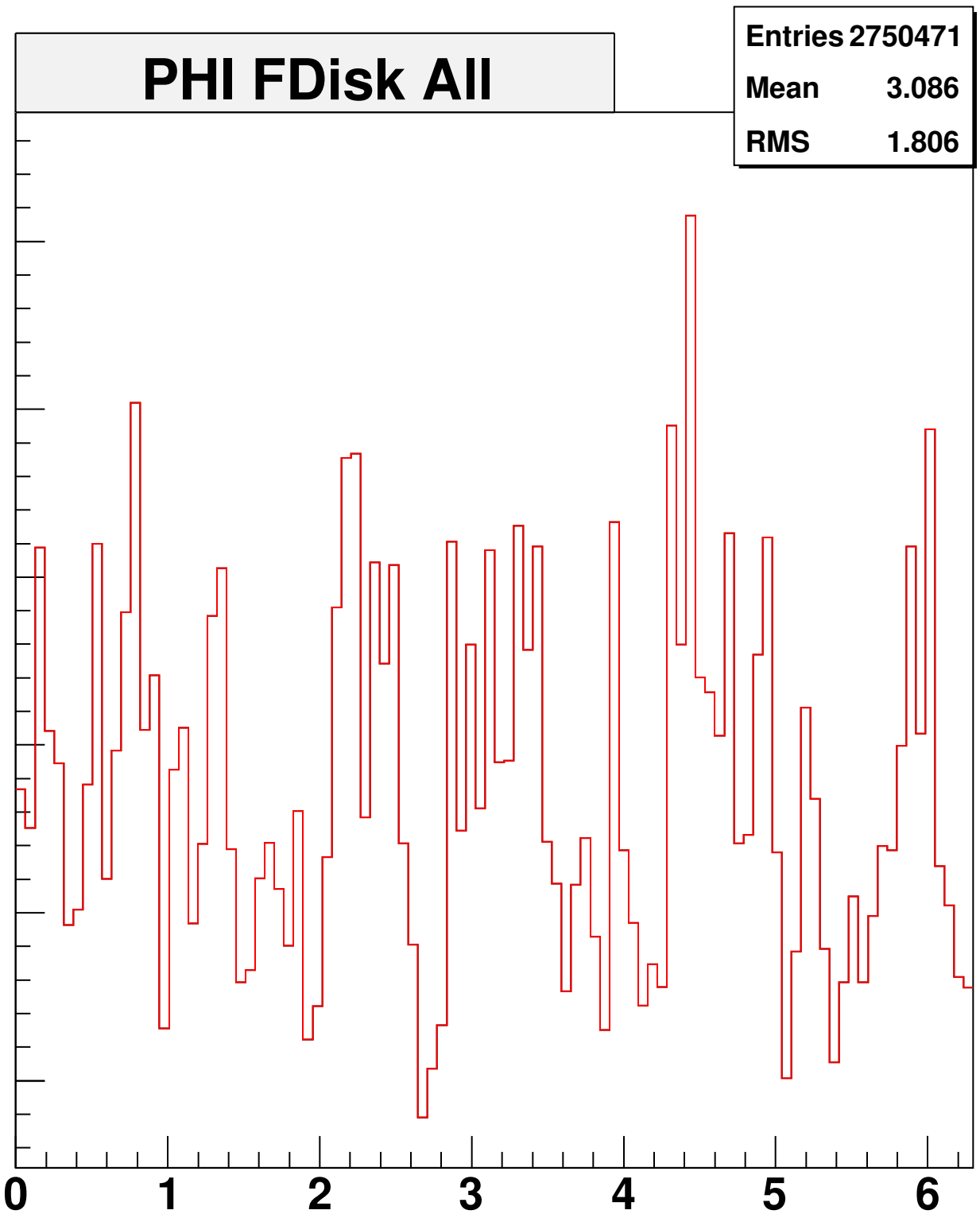


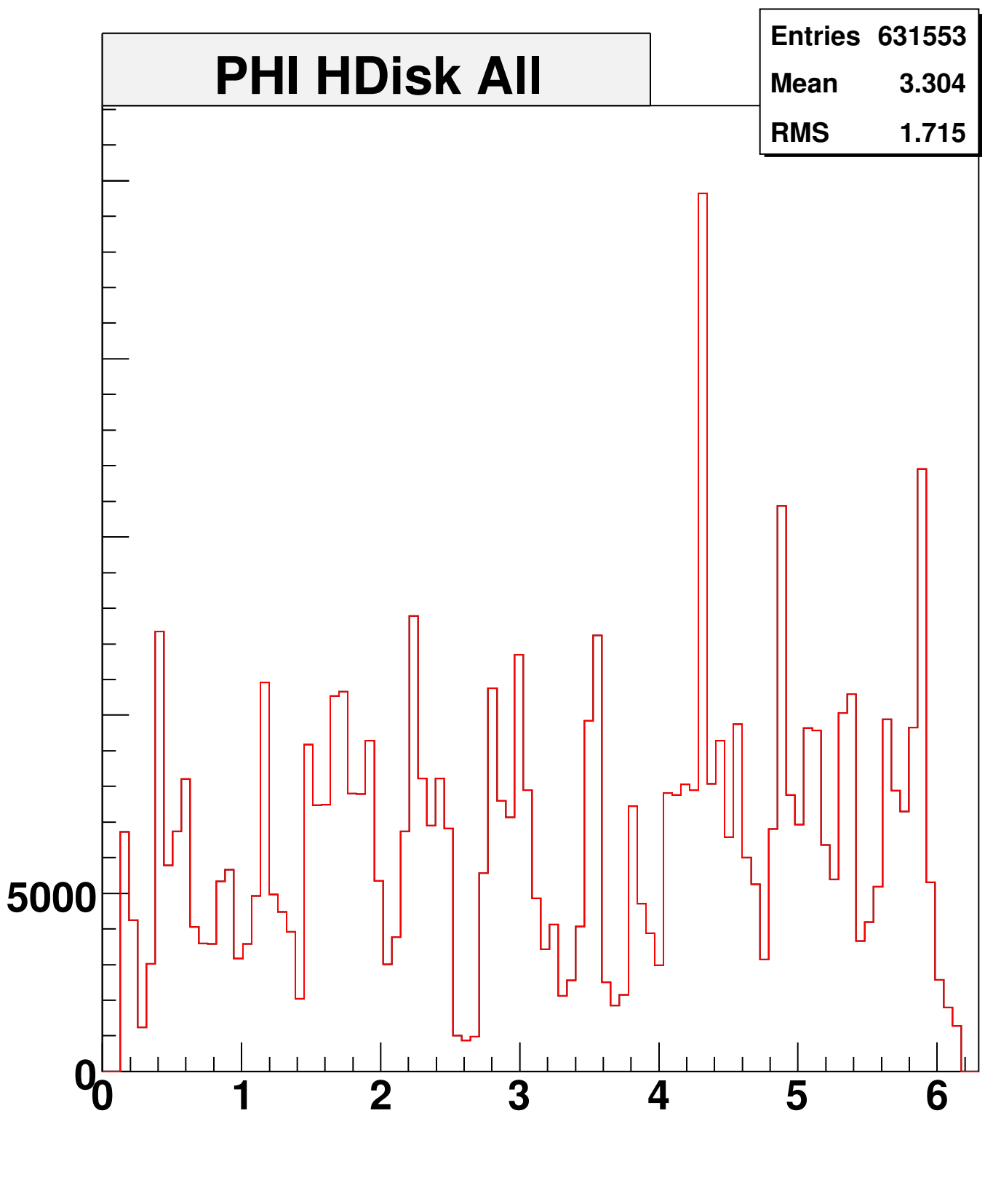


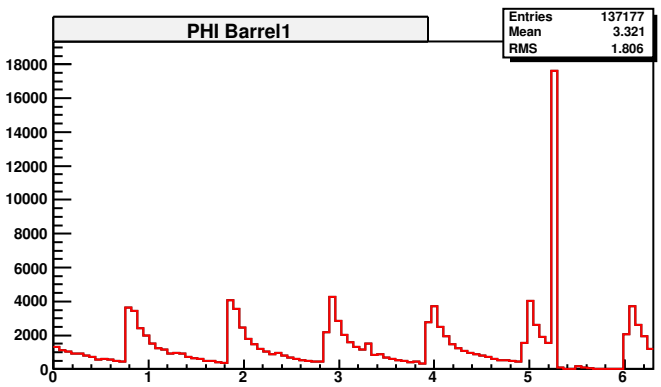


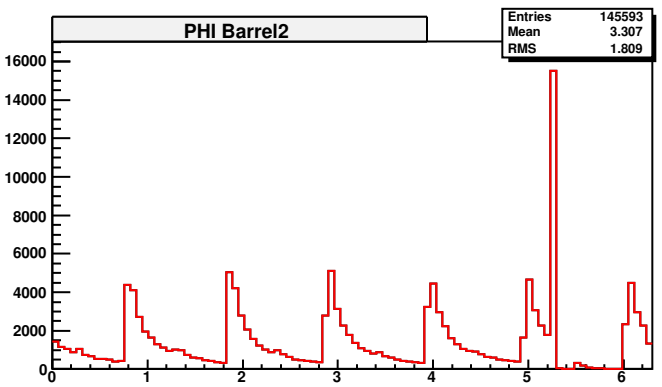
CPS Clusters (All Clusters)

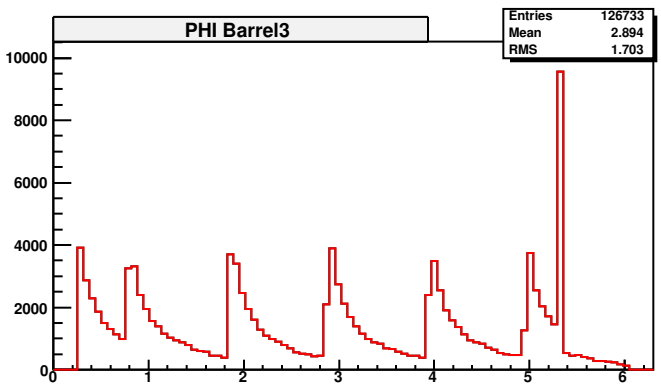

PHI
Entries 6935997
Mean 3.116
RMS 1.817
120
110
100
90
80
70
60
50
40
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

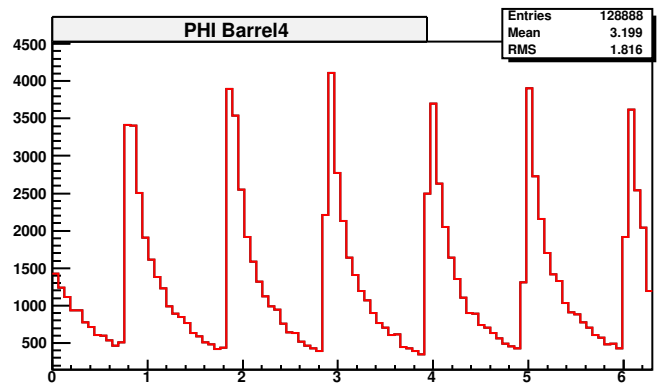

PHI FDisk All
Entries 2750471
Mean 3.086
RMS 1.806
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

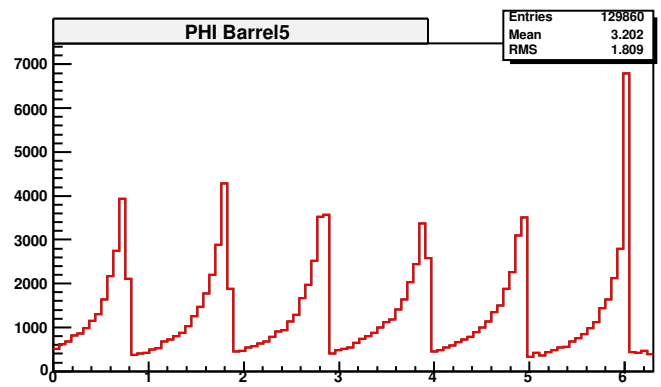

PHI HDisk All
Entries 631553
Mean 3.304
RMS 1.715
5000
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

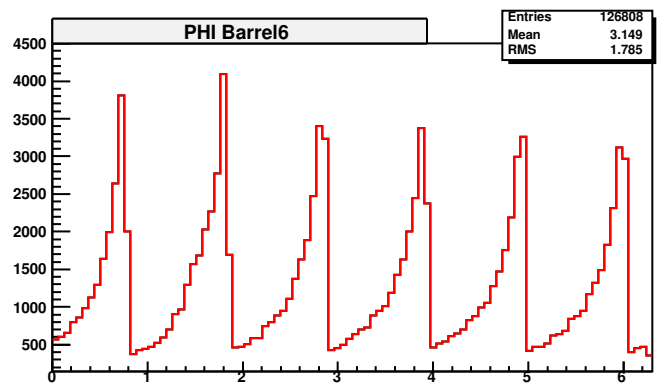


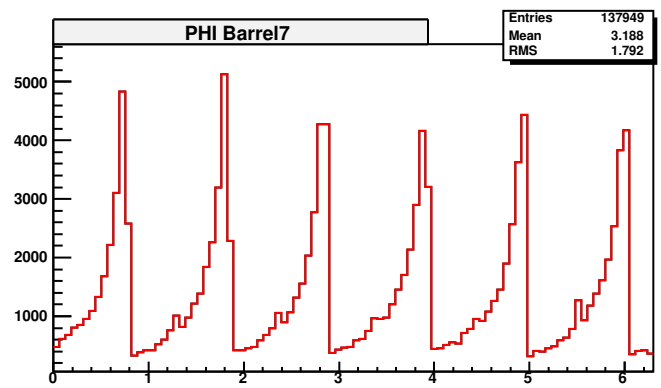


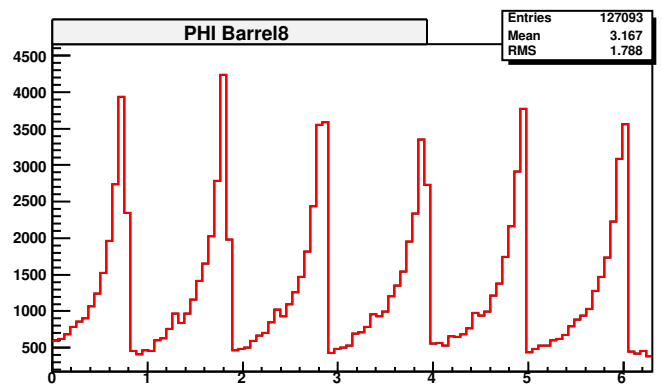




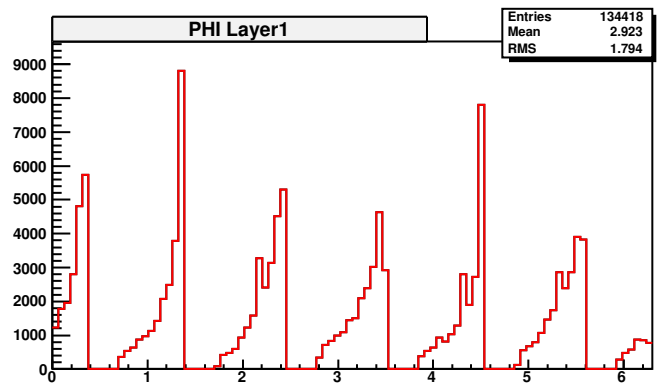


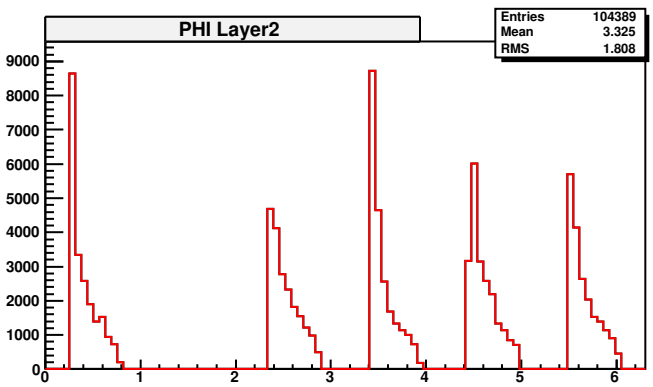


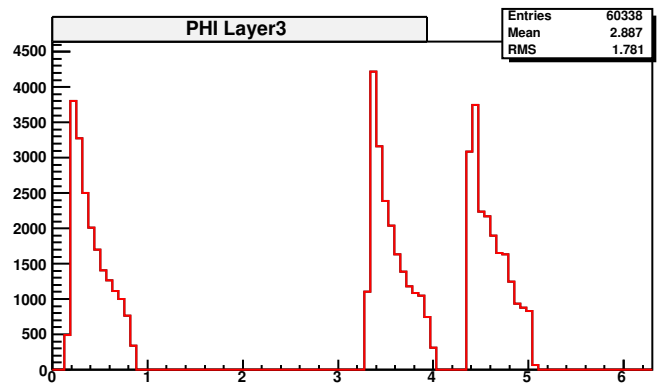


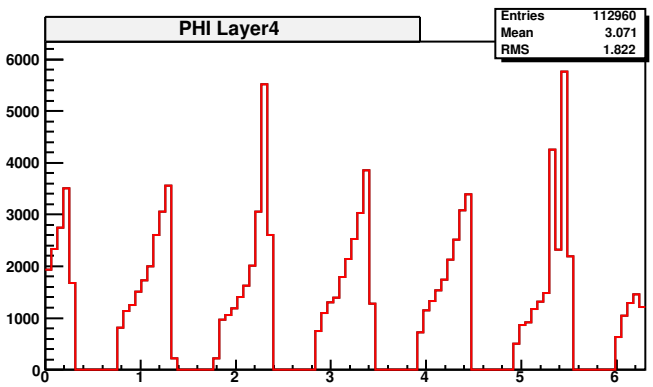


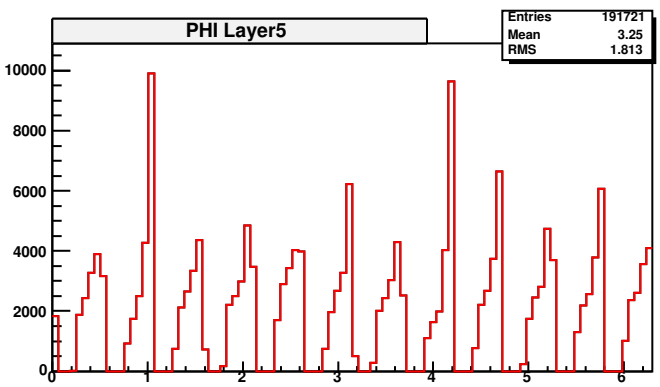
SmtClusters (ClustrLayer0)

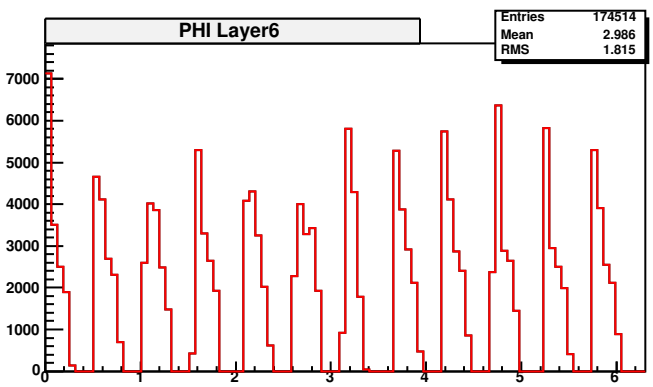


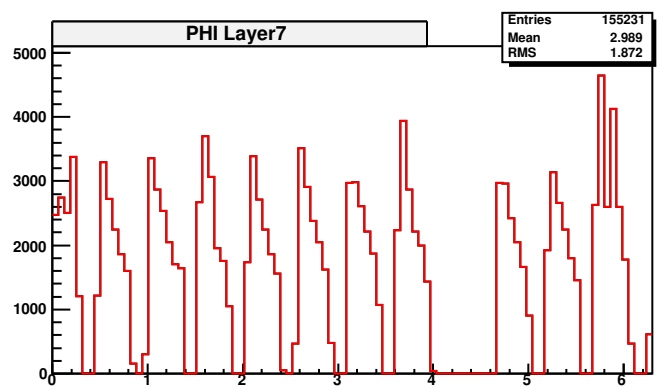


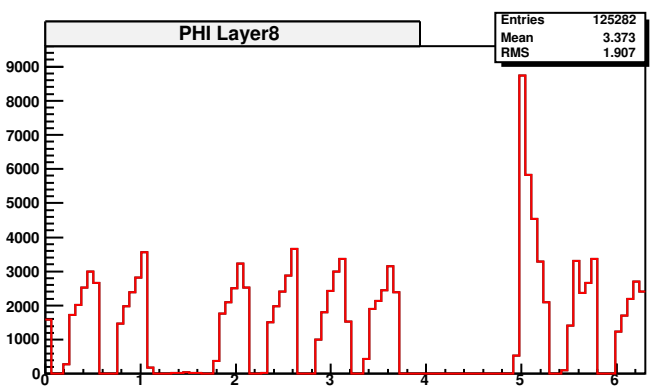




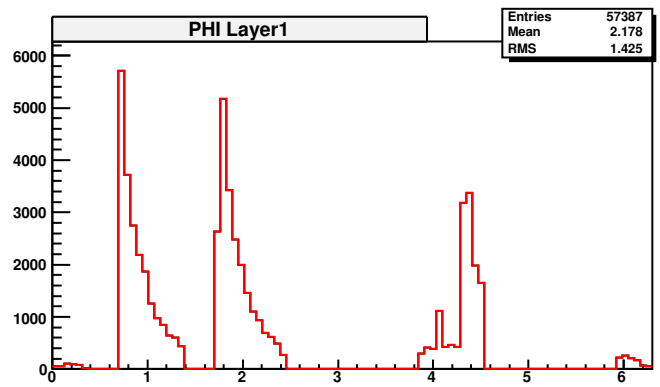


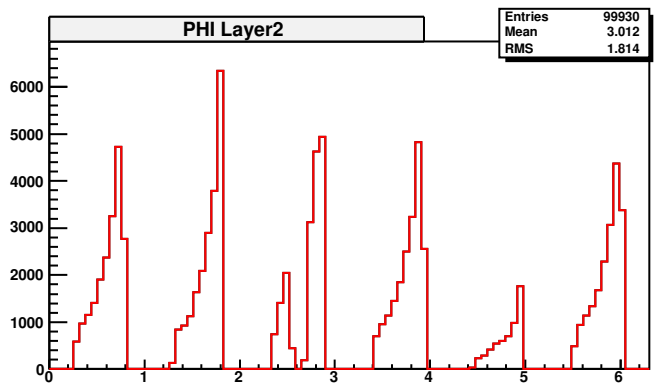


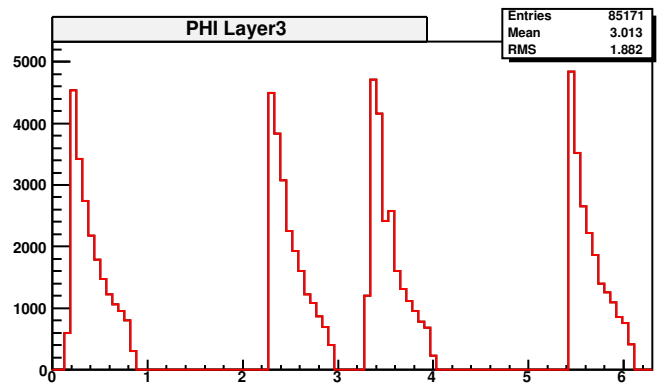


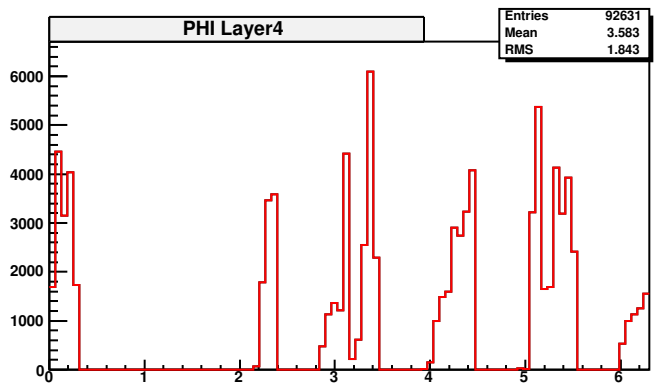


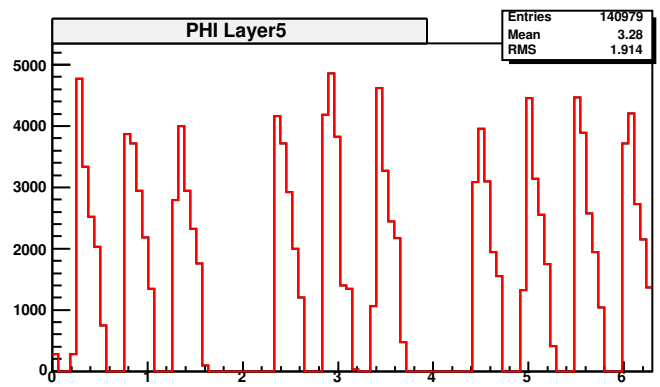
SmtClusters (ClustrBar1)

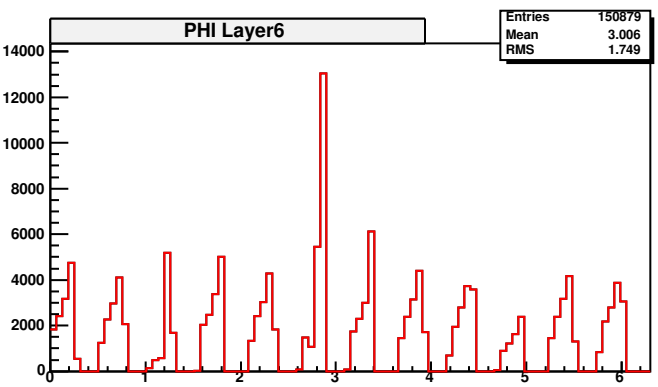


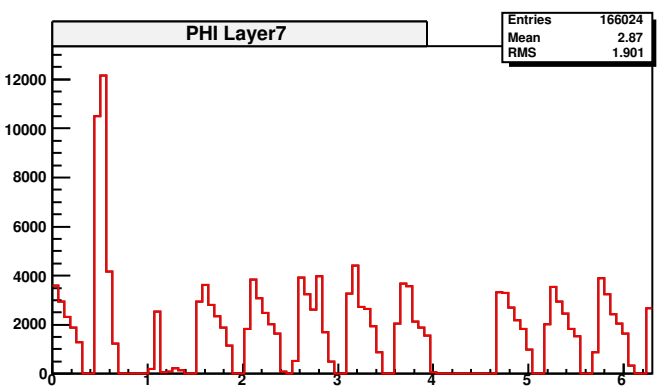


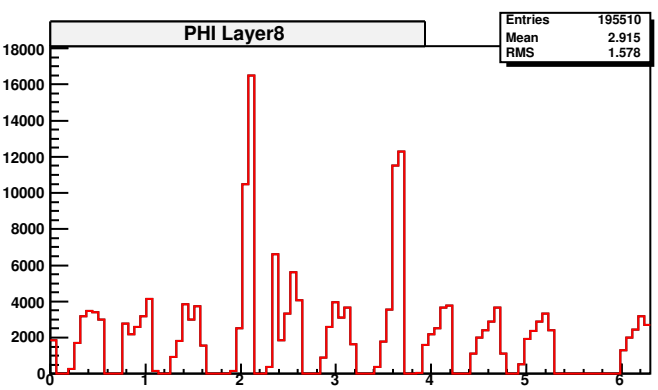




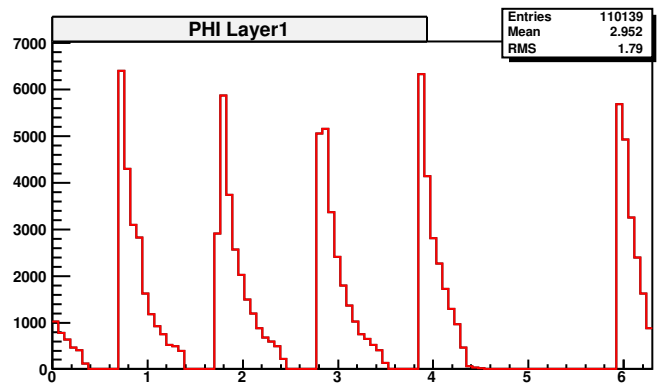


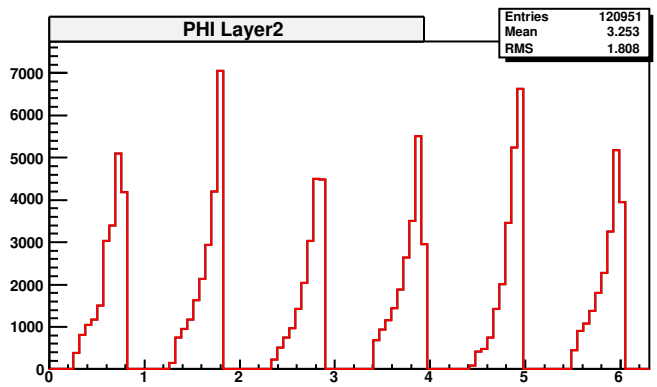


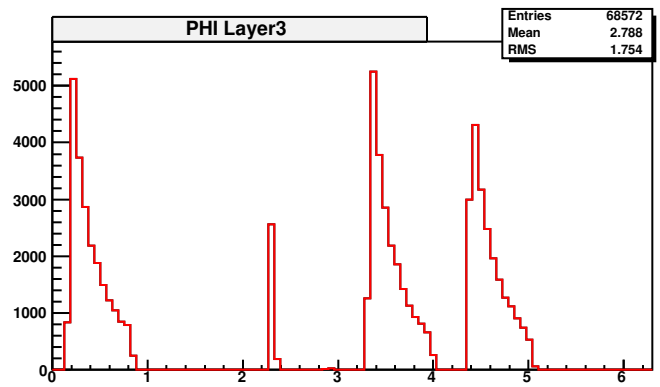


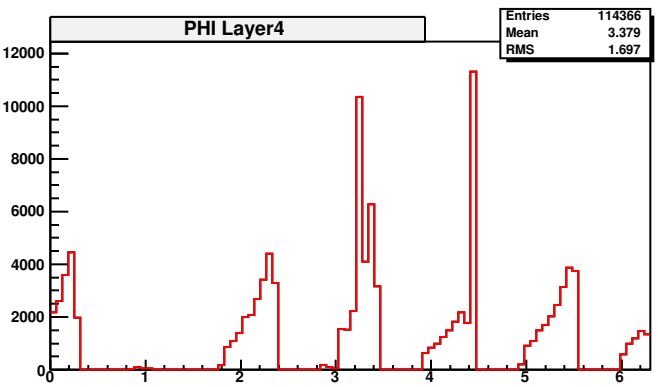


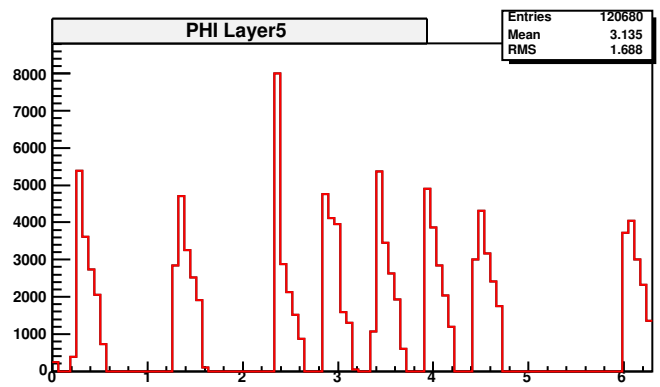
SmtClusters (ClustrBar2)

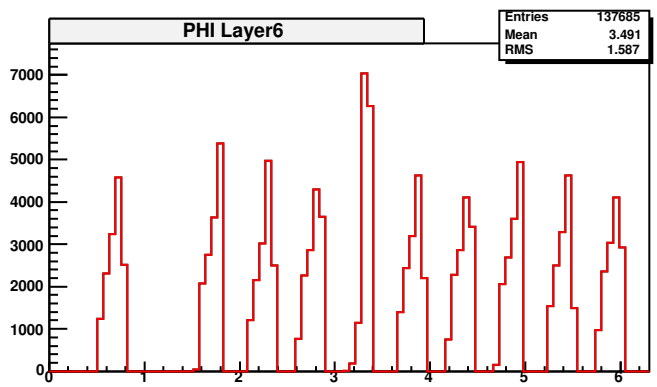


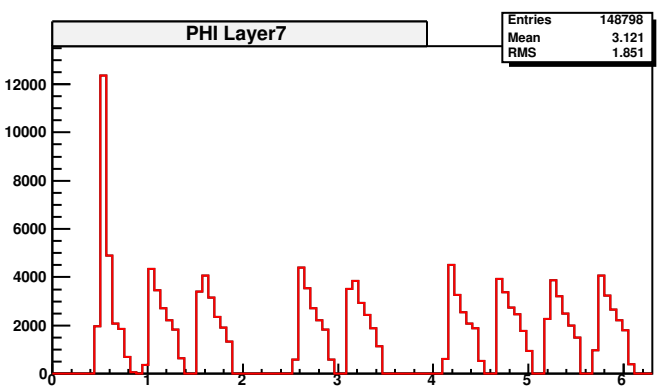


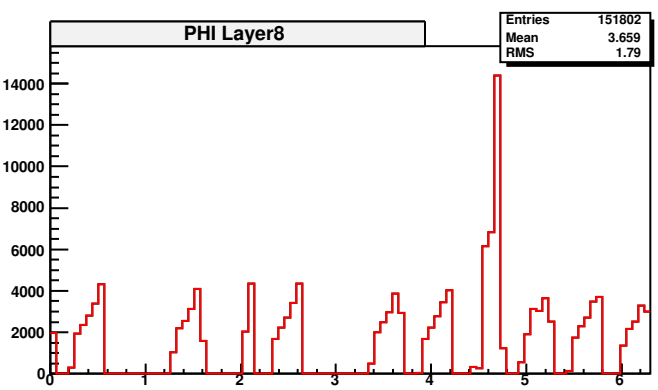




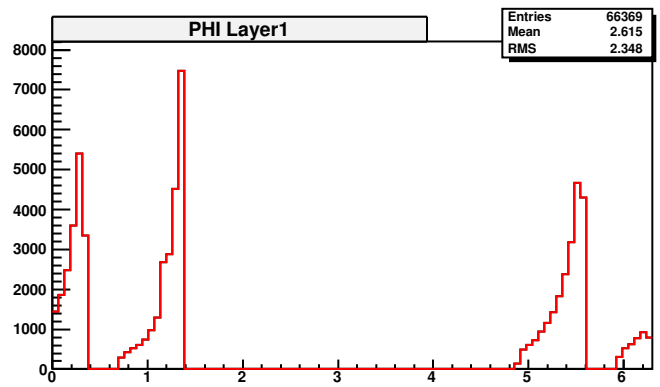


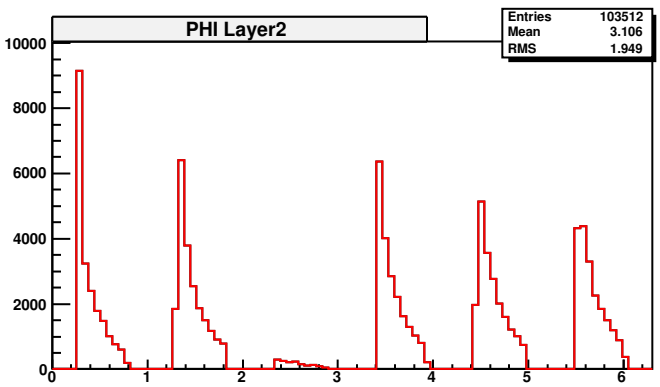


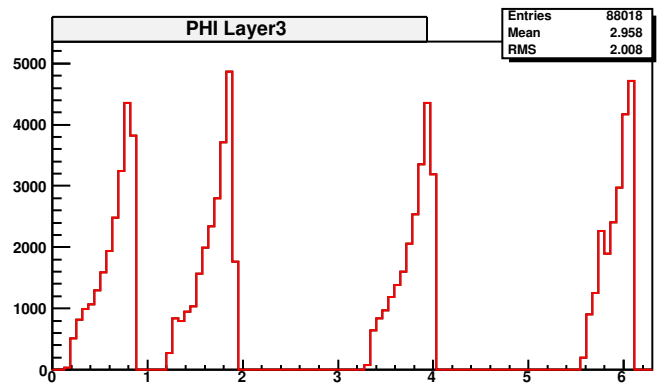


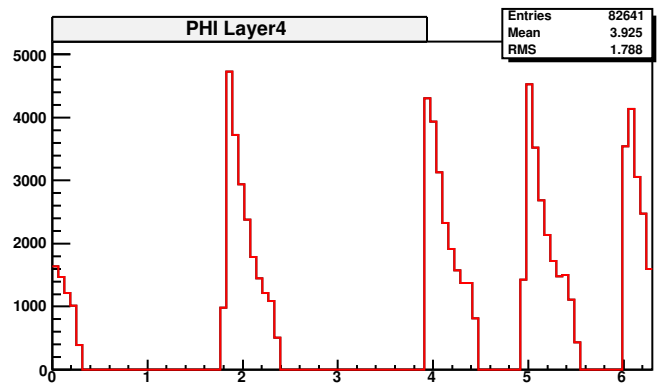


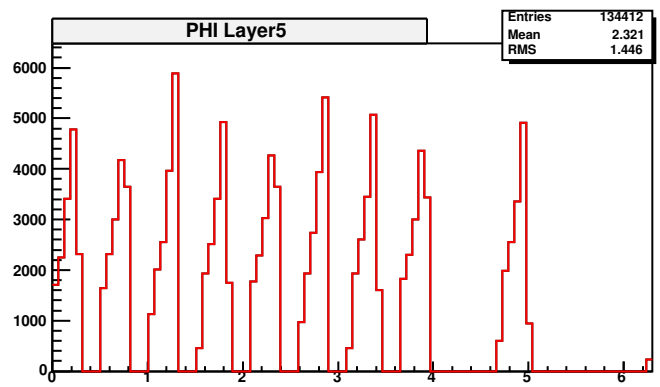
SmtClusters (ClustrBar3)

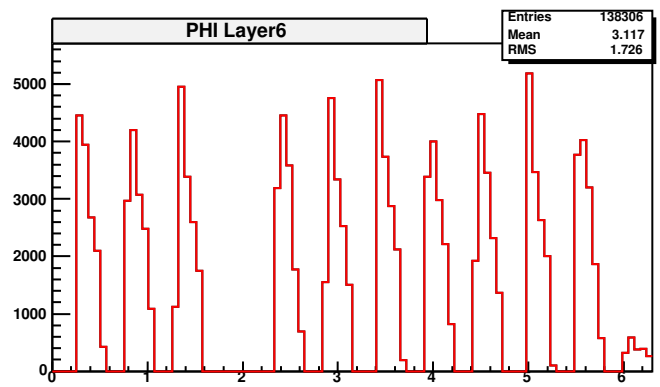


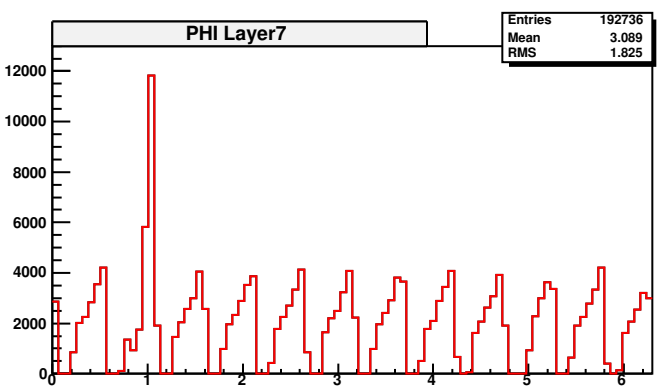


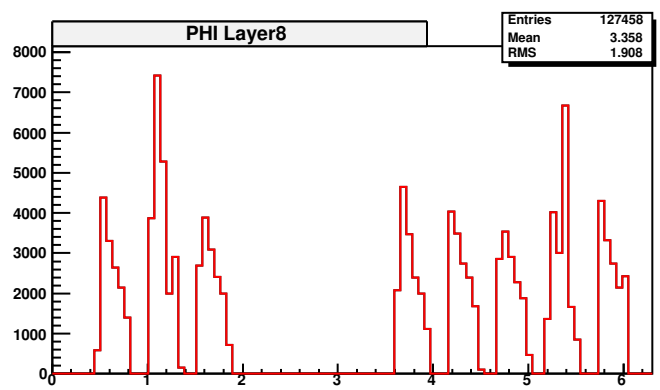




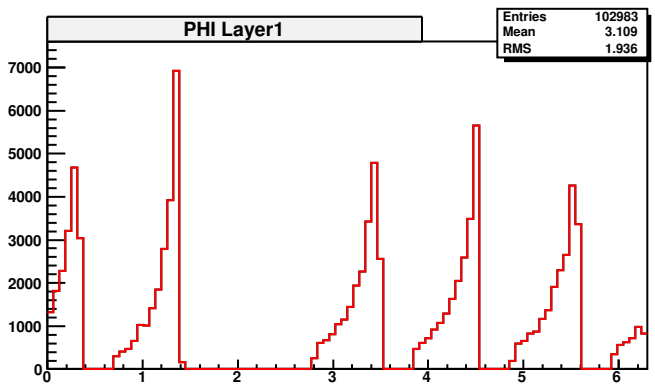


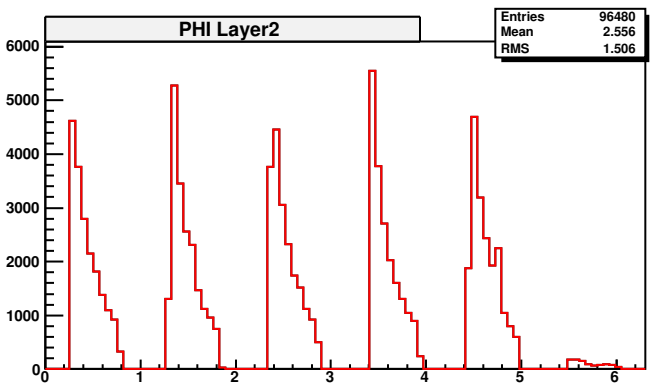


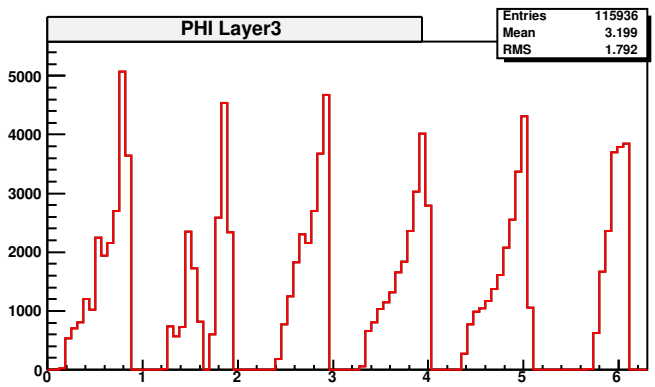


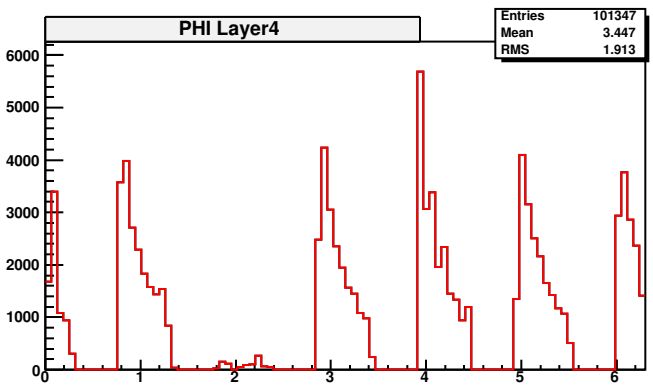


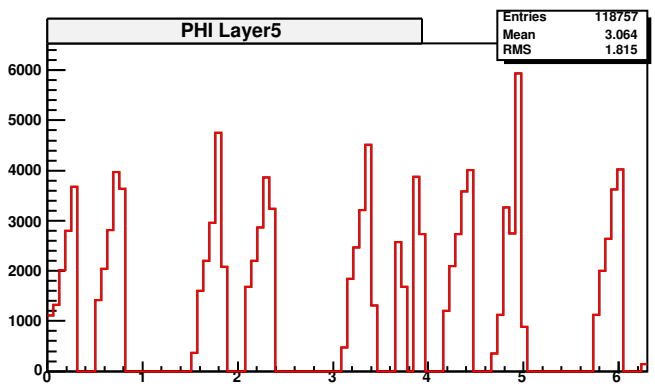
SmtClusters (ClustrBar4)

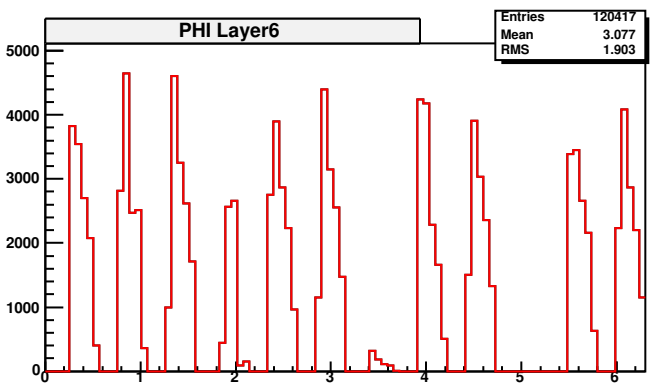


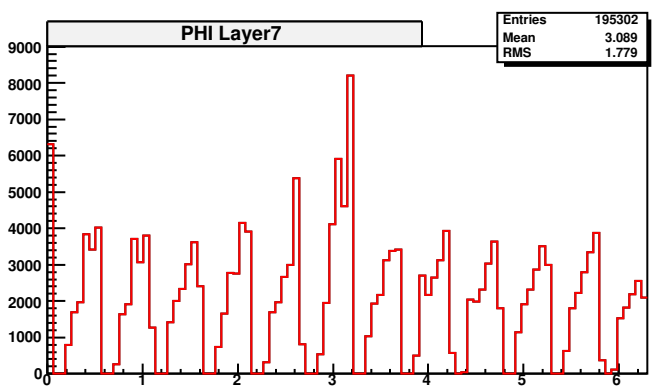


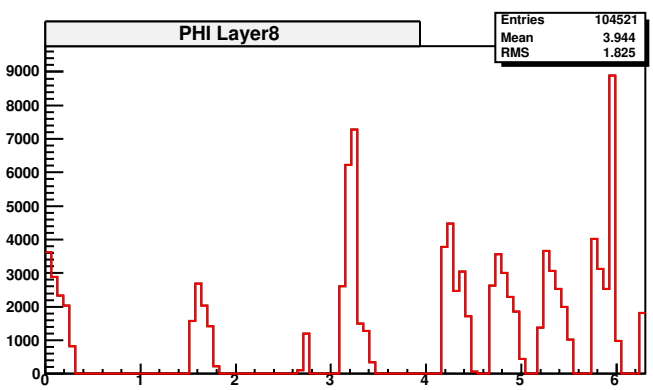




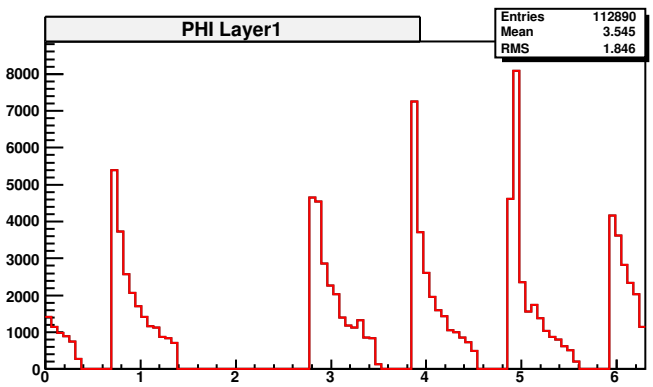


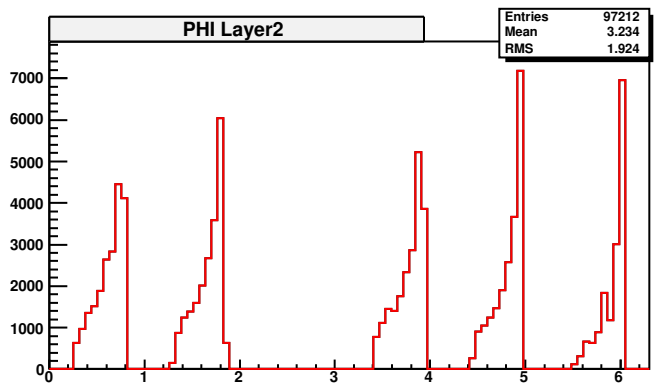


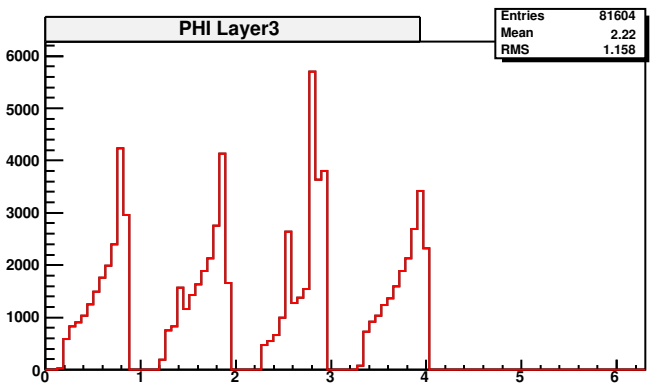


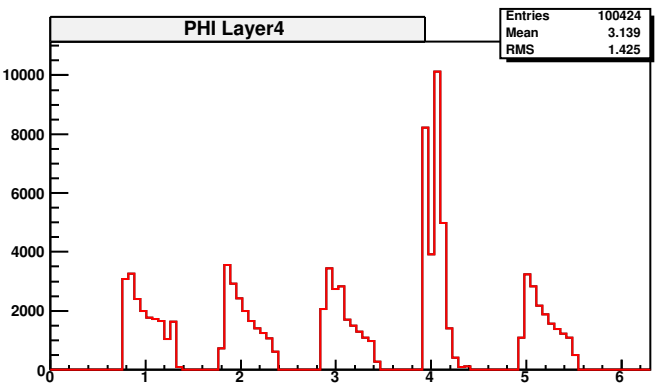


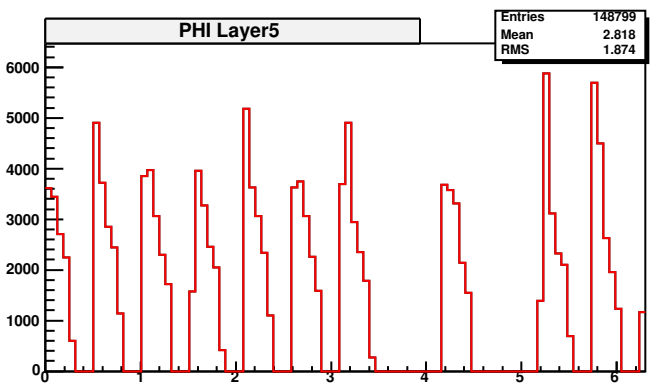
SmtClusters (ClustrBar5)

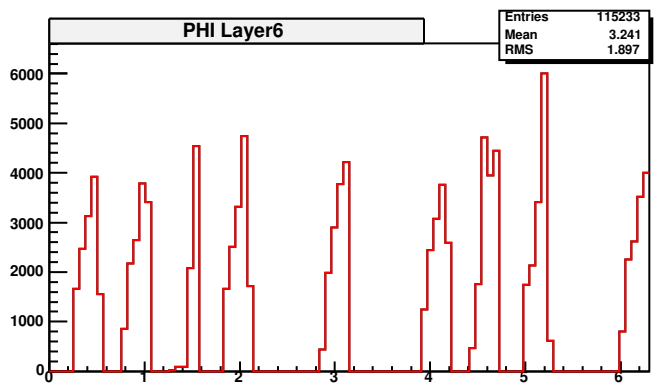


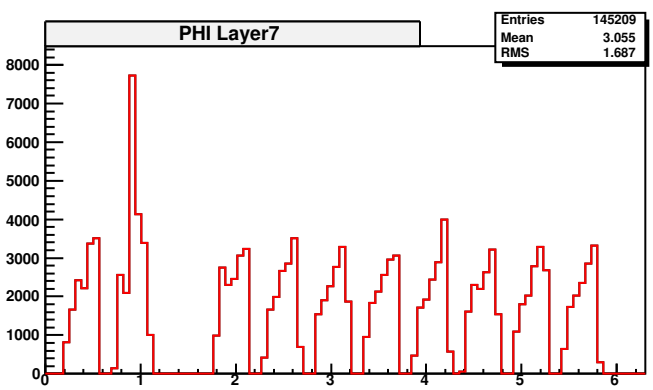


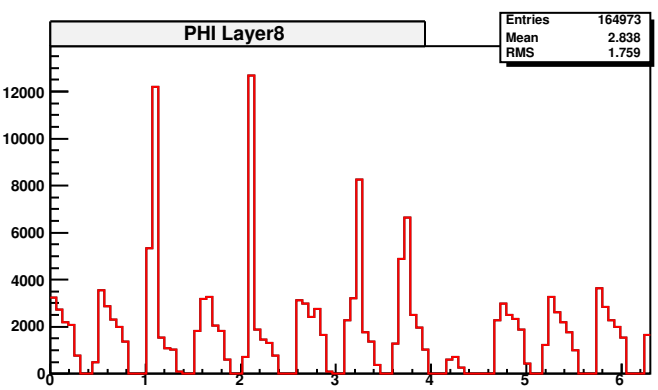




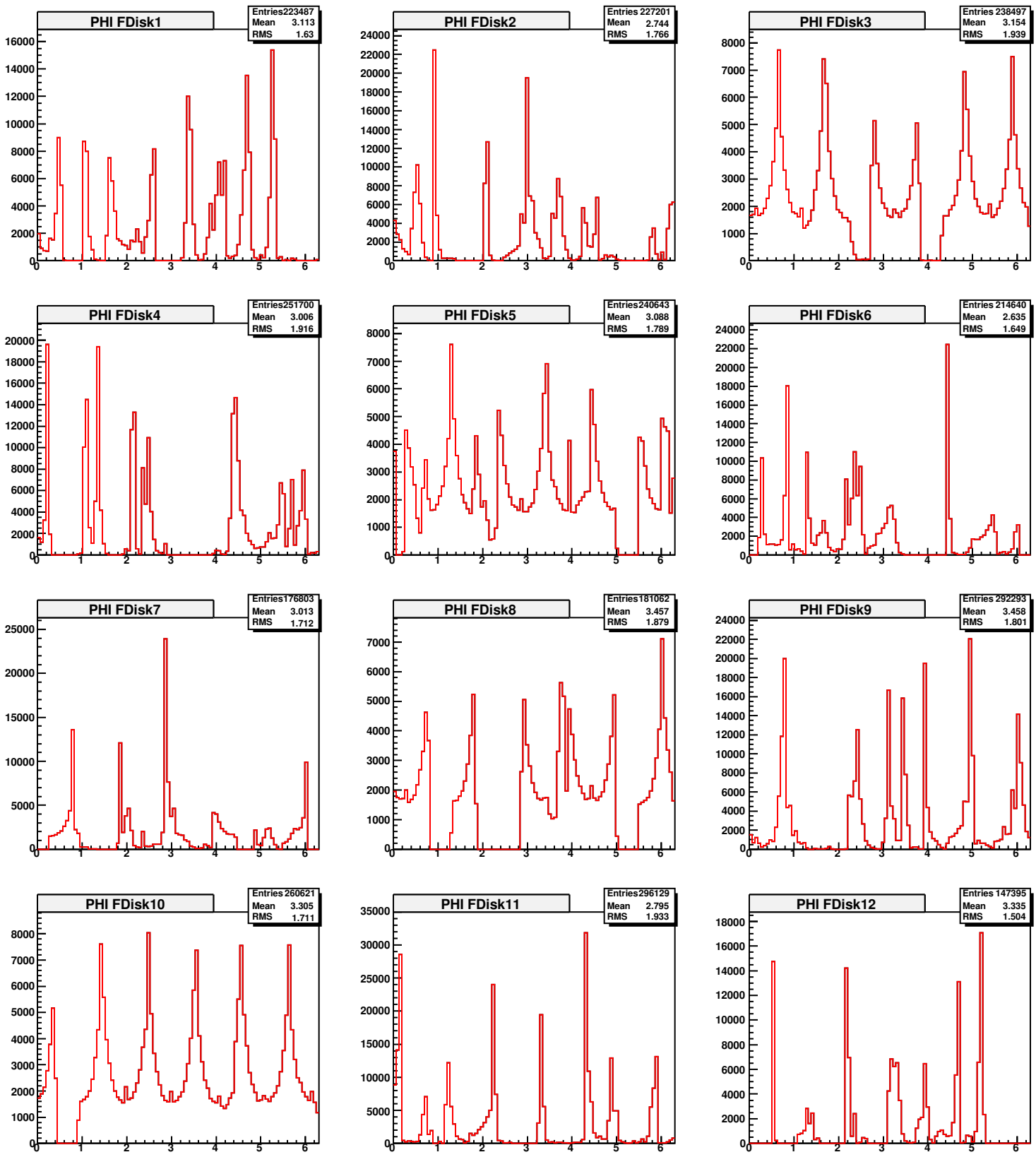




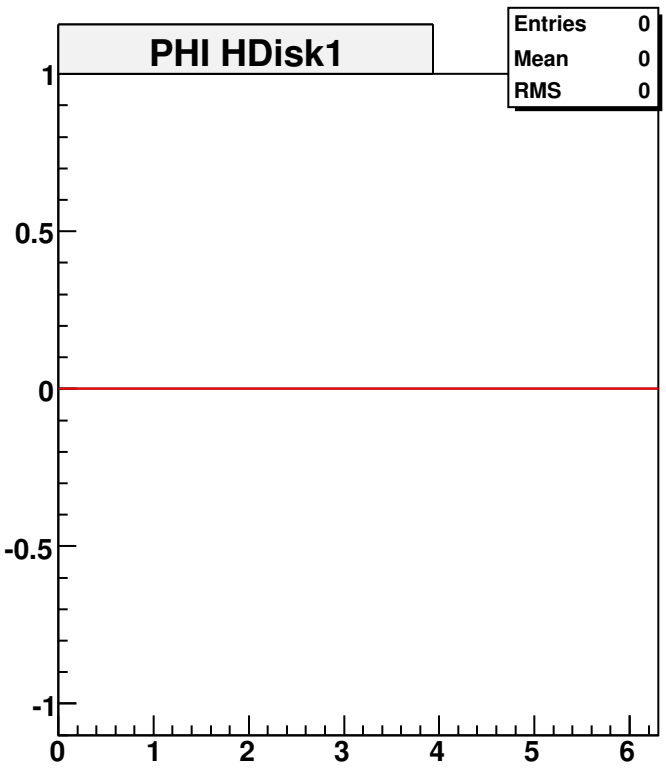


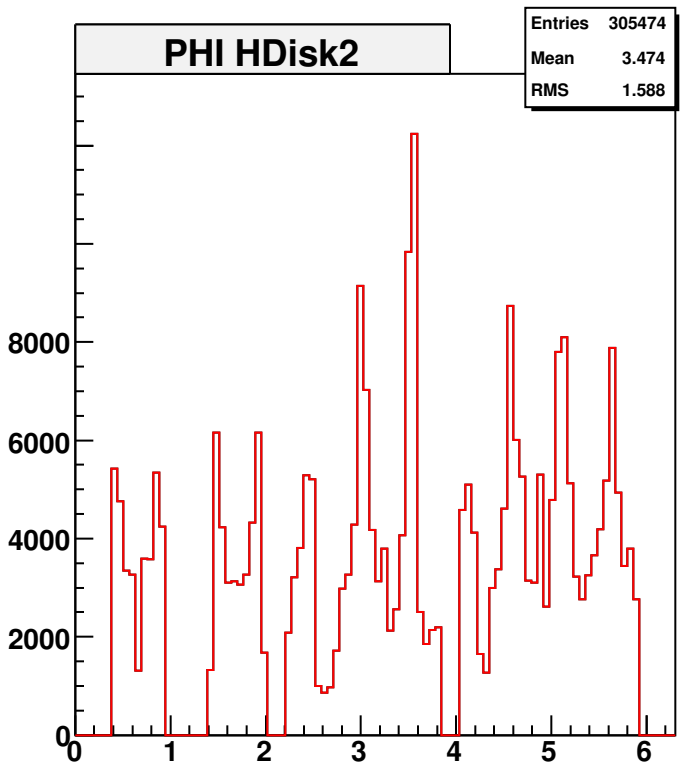


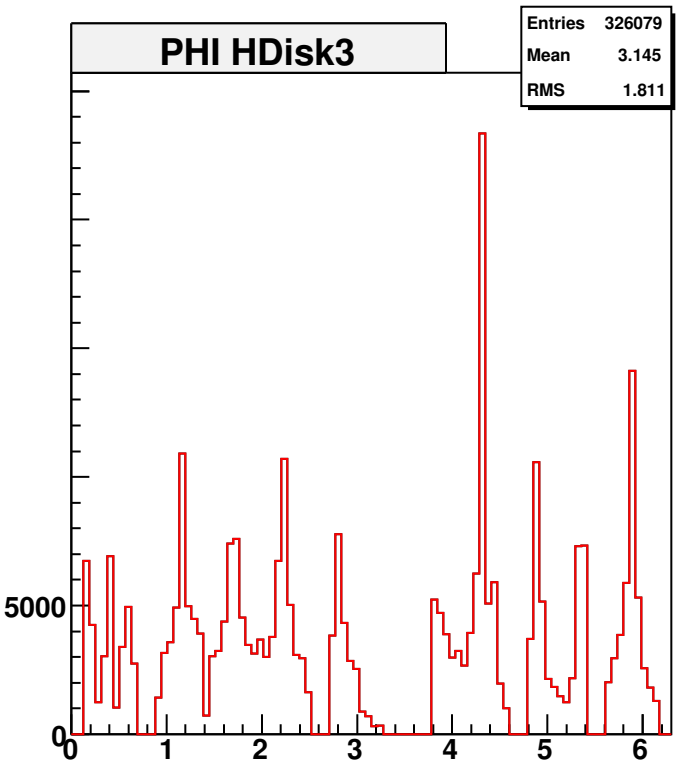
SmtClusters (ClustrBar6)

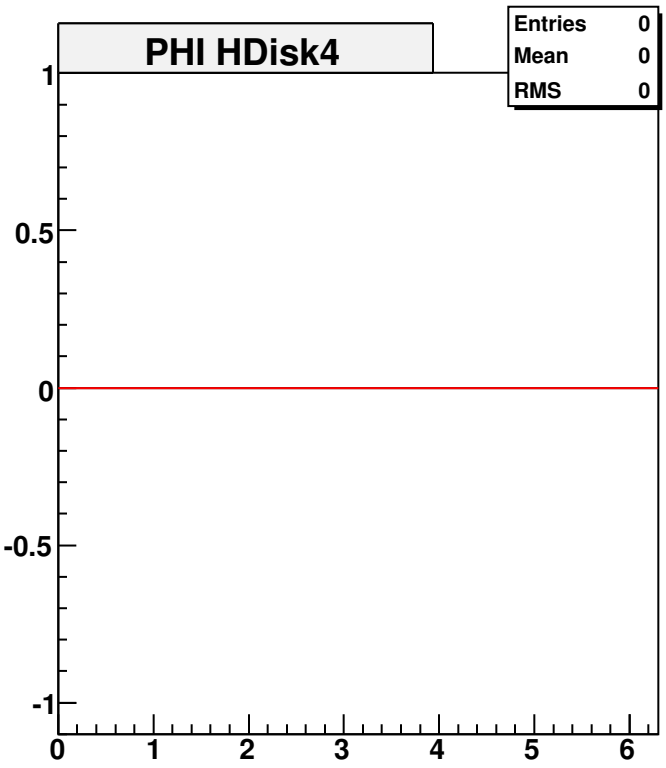


SmtClusters (FDiskClusters)

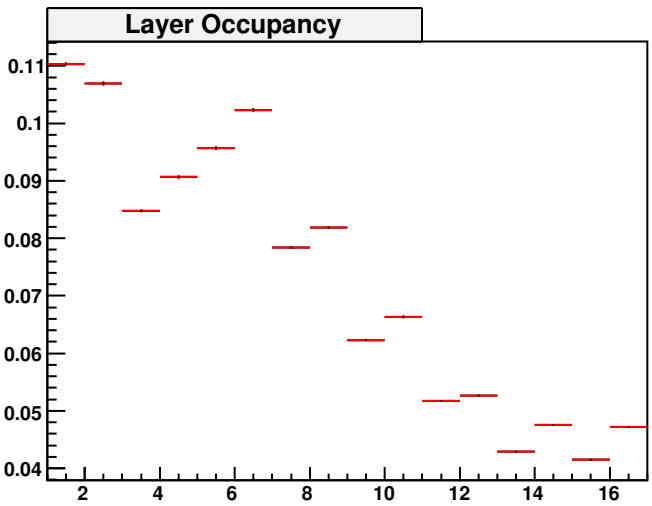


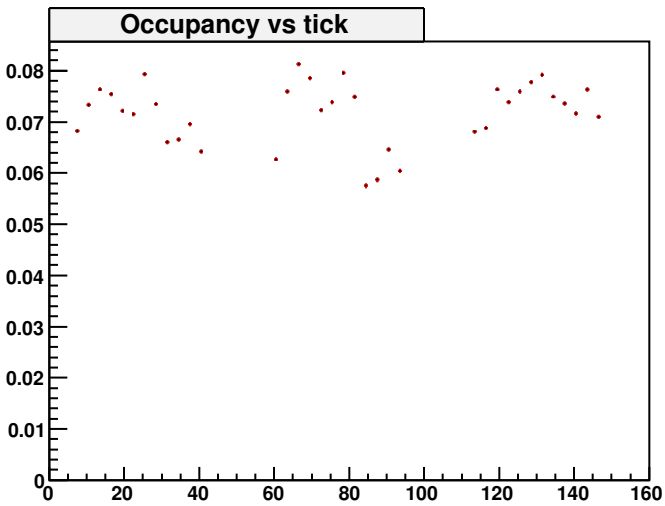


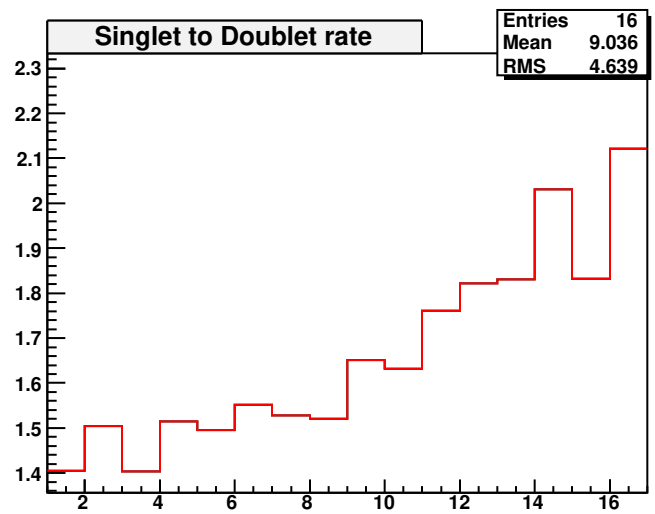


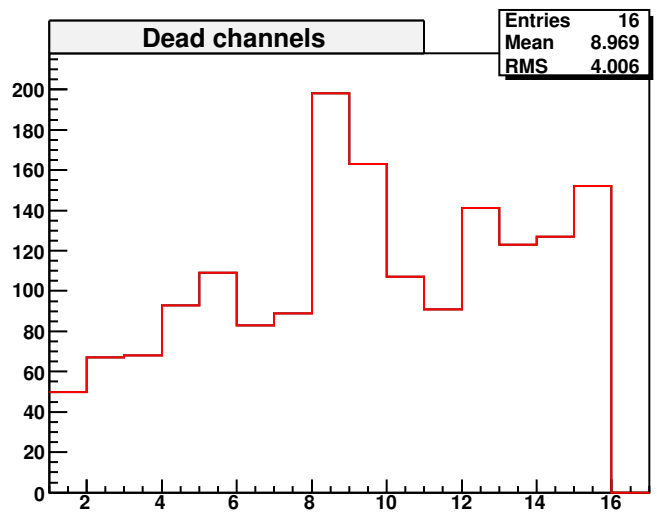


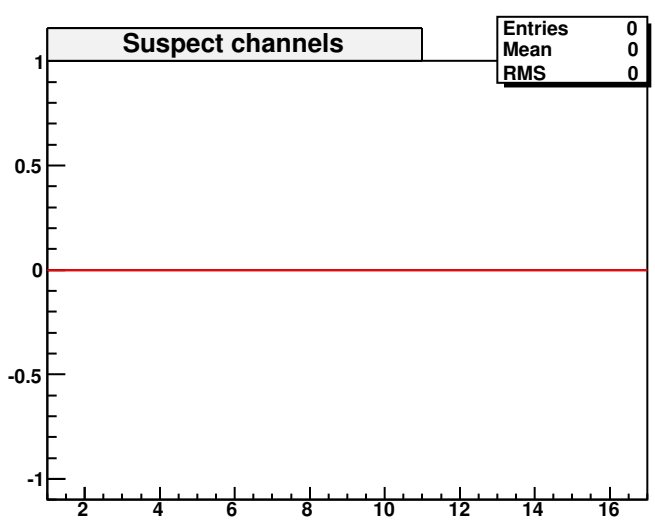
SmtClusters (HDiskClusters)

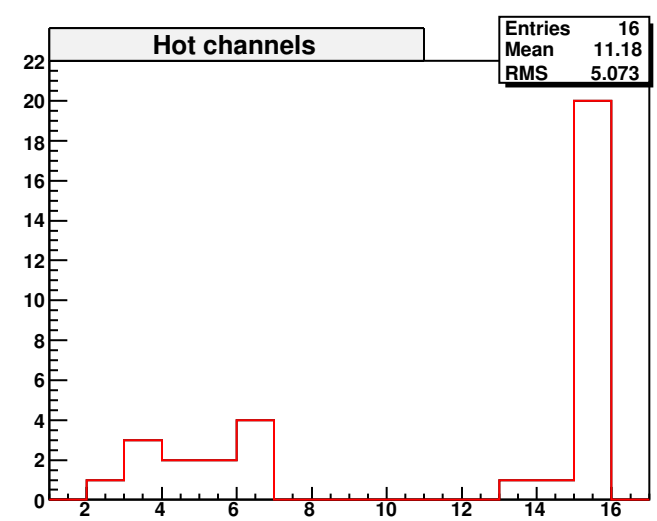




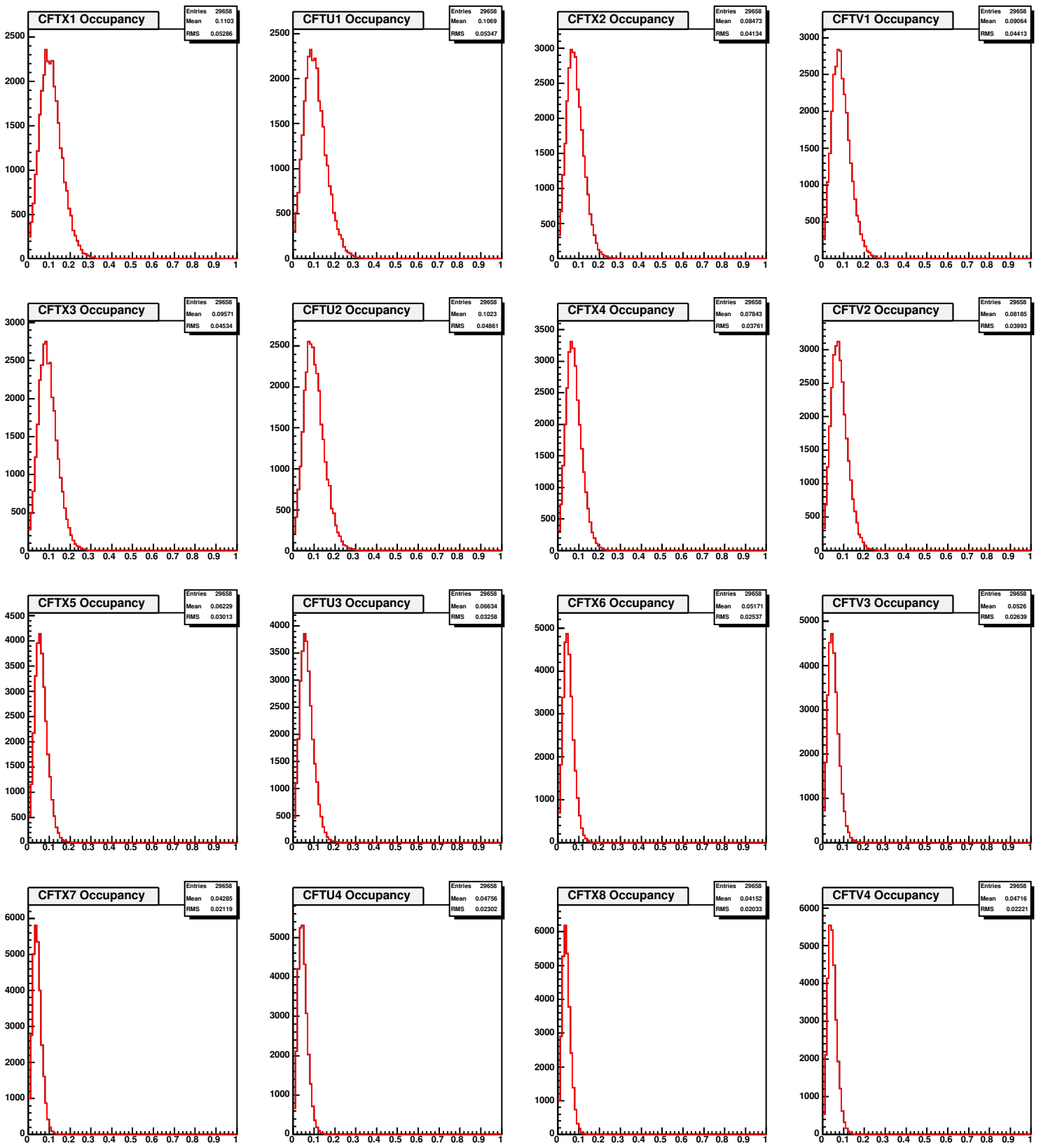




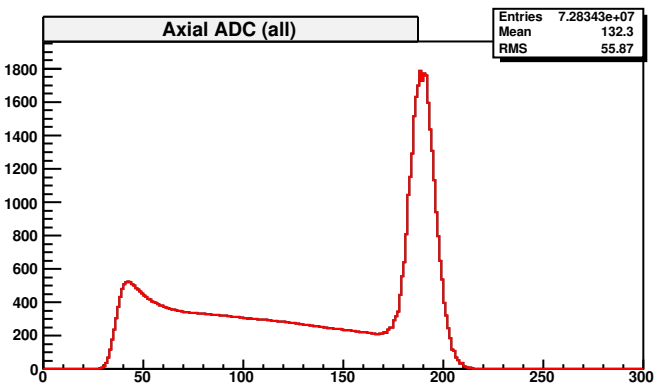


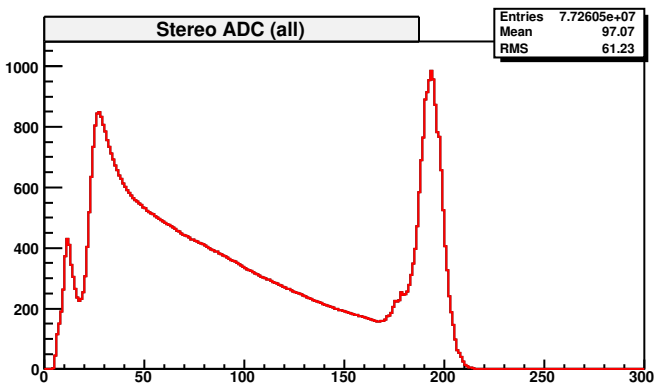


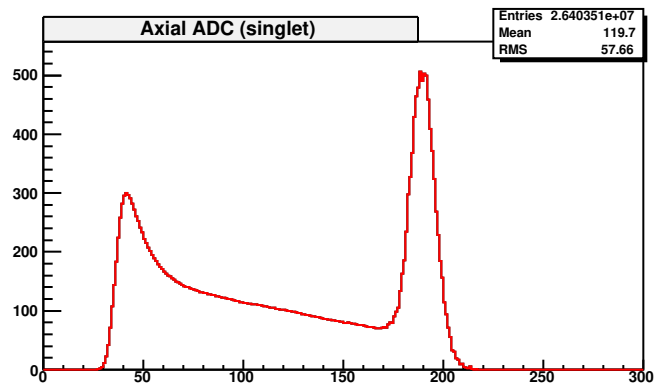
CFT Summary (All Clusters)

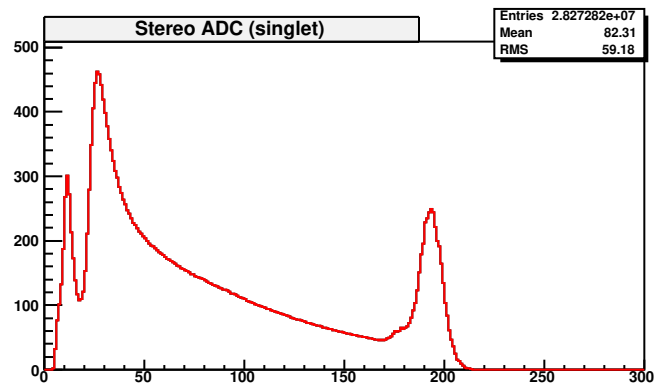


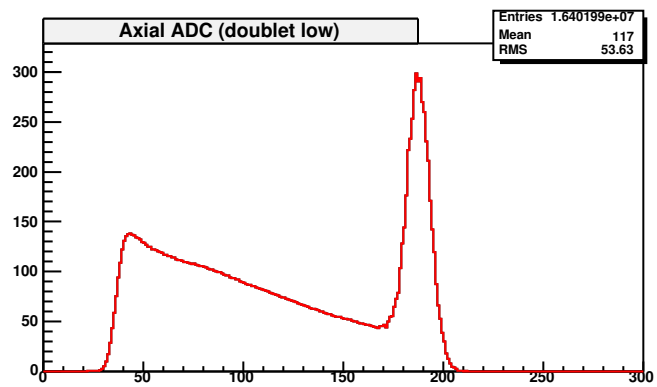
CFT Occupancy (All Clusters)

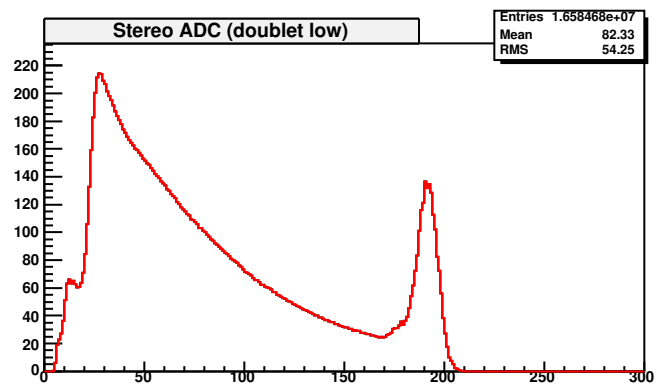


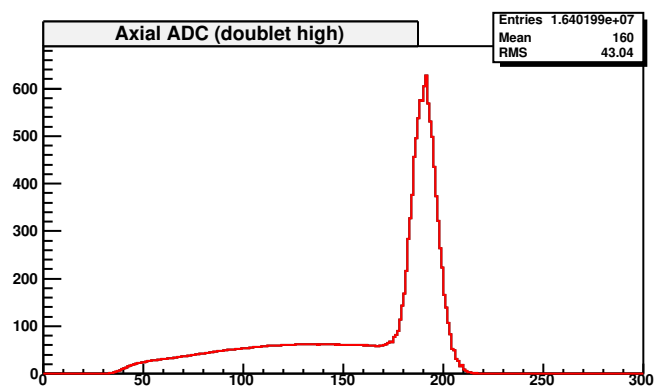


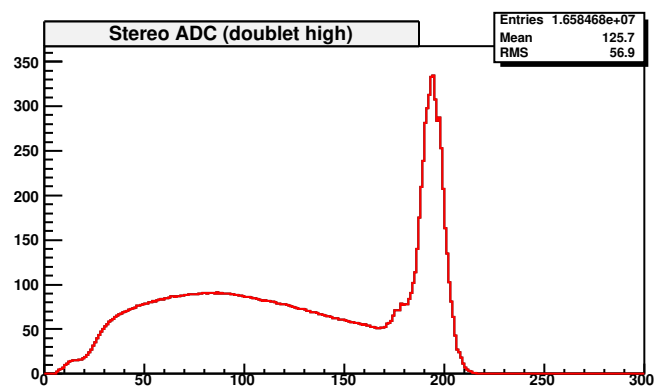




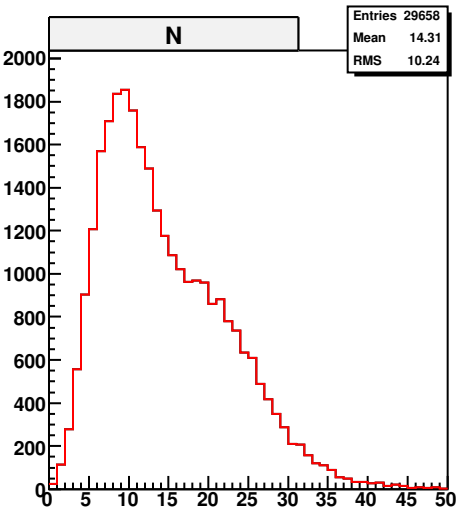


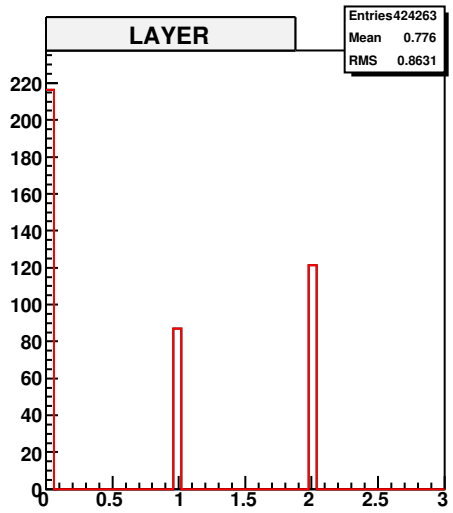


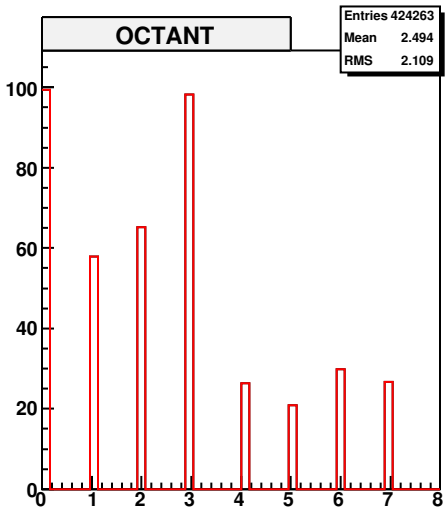


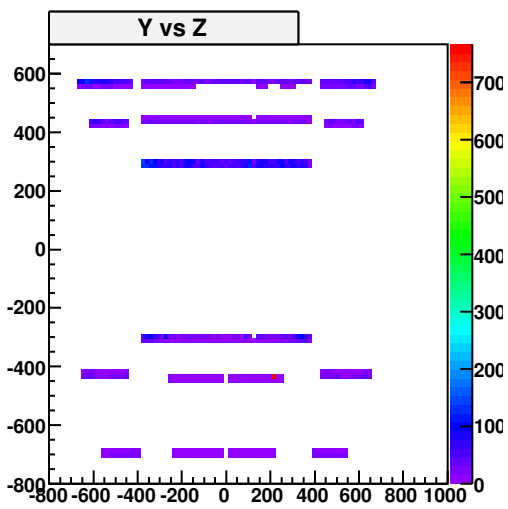


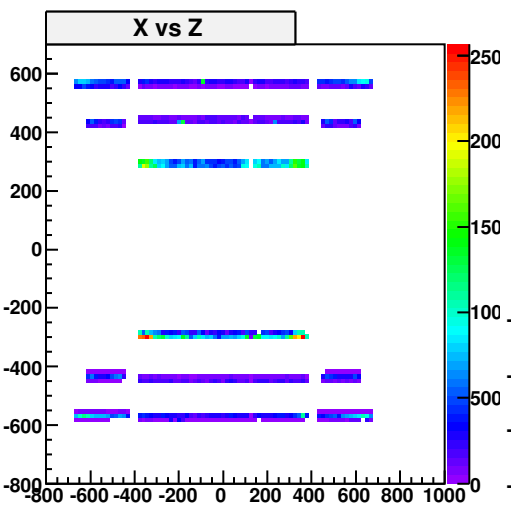
CFT ADC Summary (All Clusters)

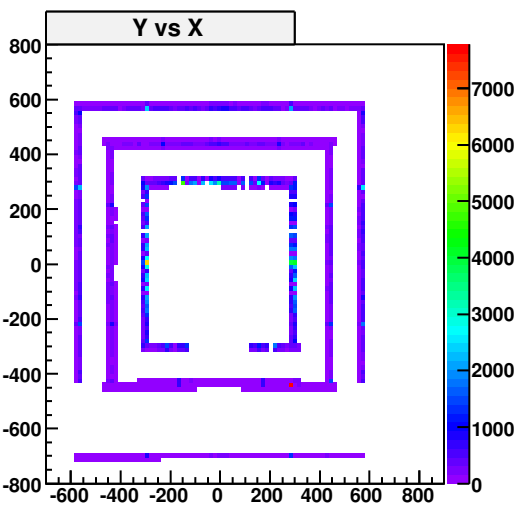

N
Entries 29658
Mean 14.31
RMS 10.24

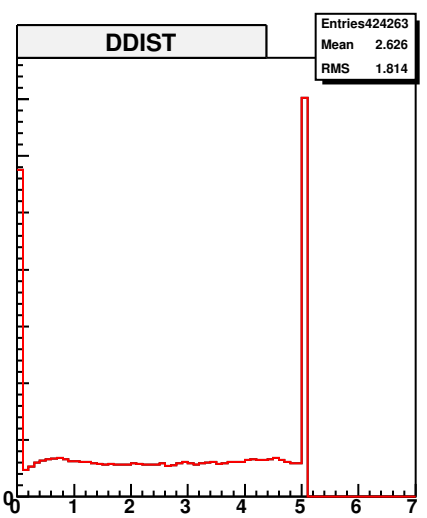

LAYER
Entries 424263
Mean 0.776
RMS 0.8631

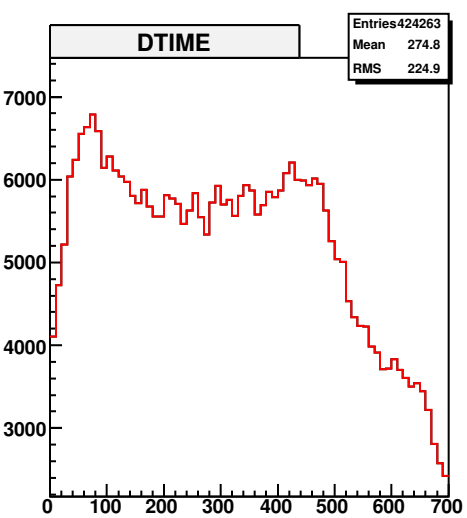

OCTANT
Entries 424263
Mean 2.494
RMS 2.109


Y vs Z

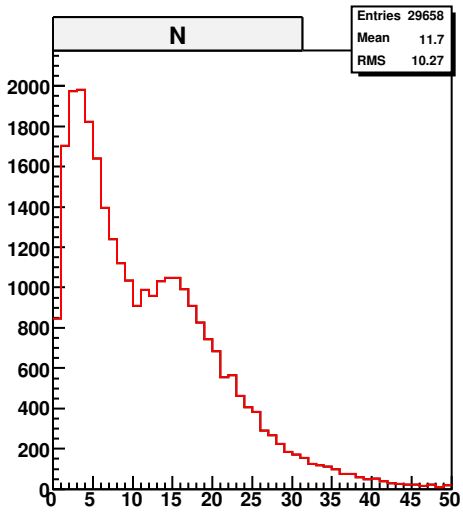

X vs Z

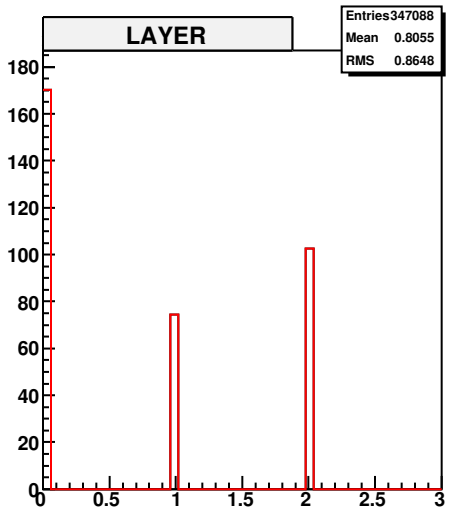

Y vs X

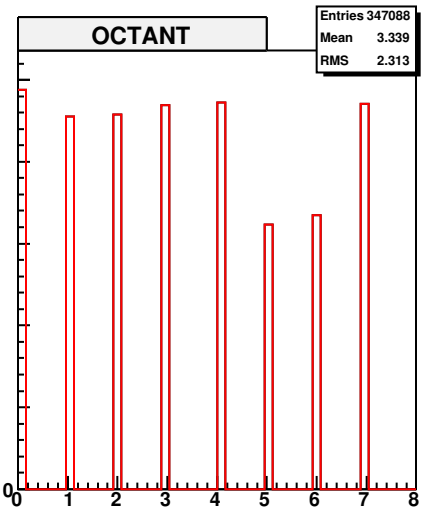

DDIST
Entries 424263
Mean 2.626
RMS 1.814

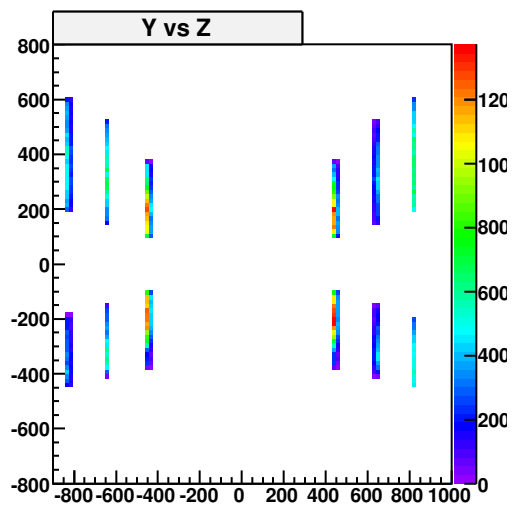

DTIME
Entries 424263
Mean 274.8
RMS 224.9

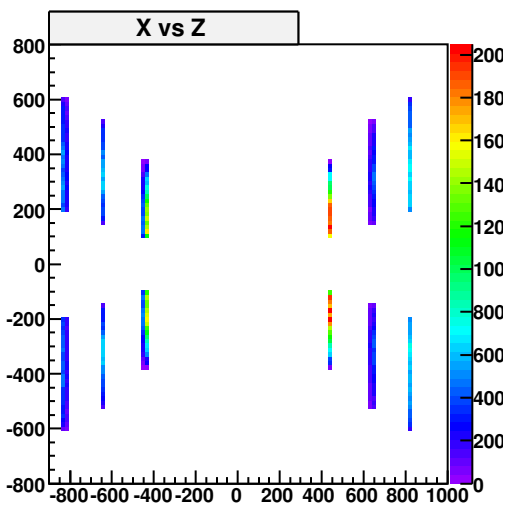
MuonPDT (All)

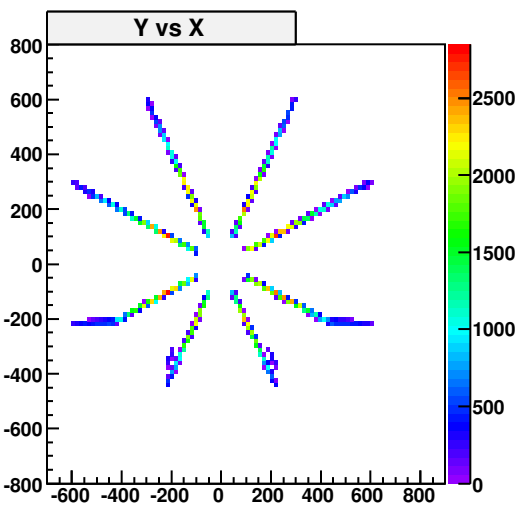

N
Entries 29658
Mean 11.7
RMS 10.27

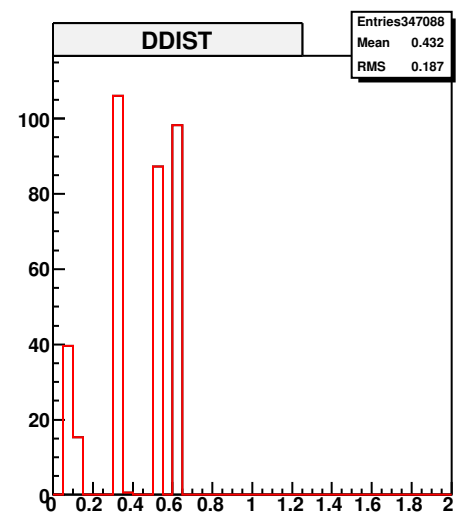

LAYER
Entries 347088
Mean 0.8055
RMS 0.8648

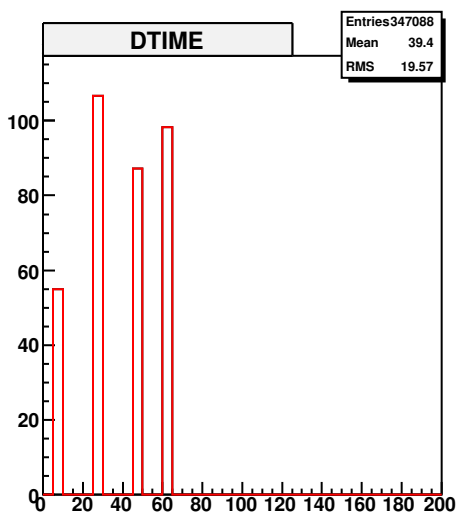

OCTANT
Entries 347088
Mean 3.339
RMS 2.313


Y vs Z

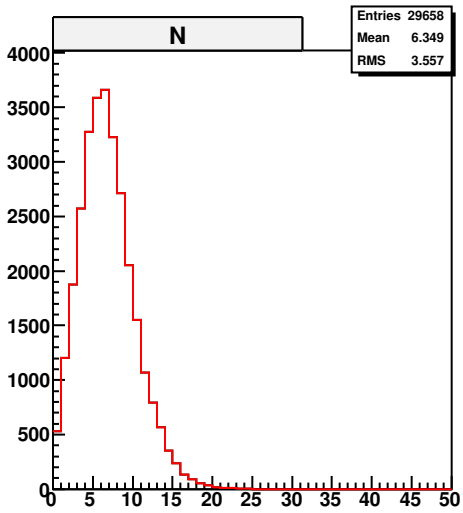

X vs Z

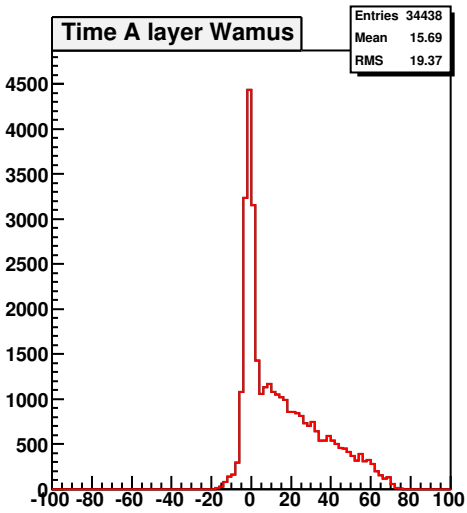

Y vs X

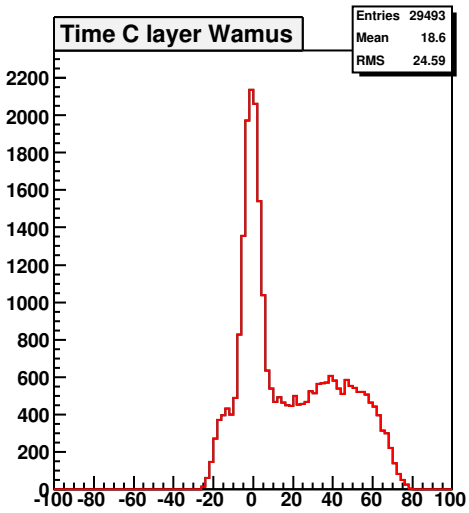

DDIST
Entries 347088
Mean 0.432
RMS 0.187

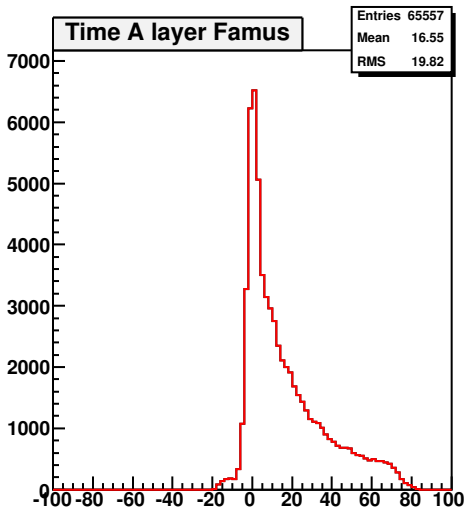

DTIME
Entries 347088
Mean 39.4
RMS 19.57

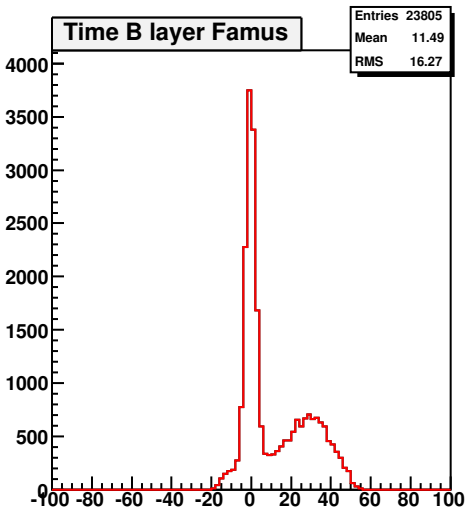
MuonMDT (All)

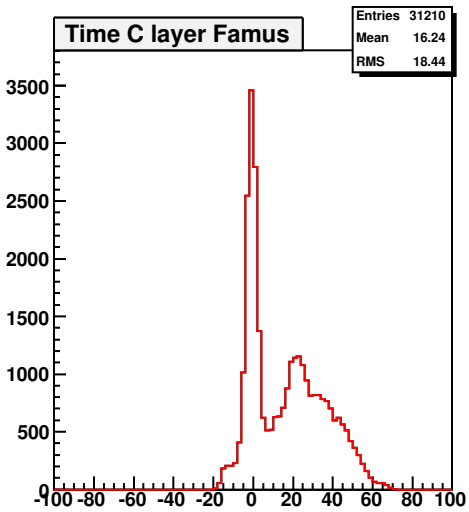

N
Entries 29658
Mean 6.349
RMS 3.557

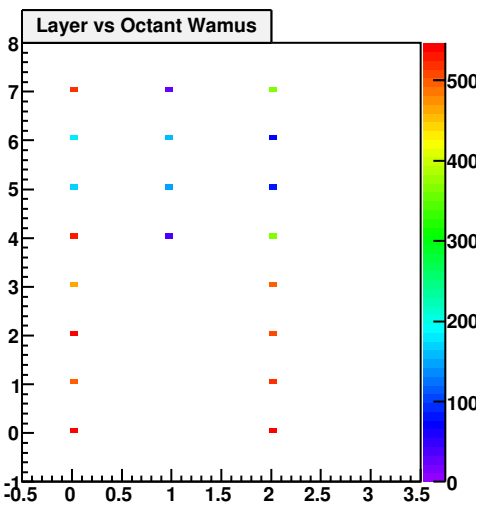

Time A layer Wamus
Entries 34438
Mean 15.69
RMS 19.37

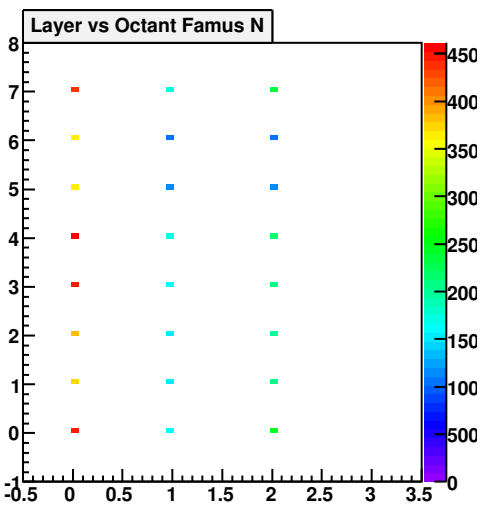

Time C layer Wamus
Entries 29493
Mean 18.6
RMS 24.59

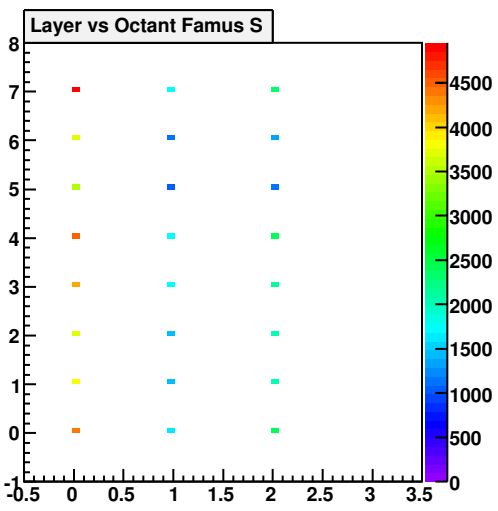

Time A layer Famus
Entries 65557
Mean 16.55
RMS 19.82


Time B layer Famus
Entries 23805
Mean 11.49
RMS 16.27

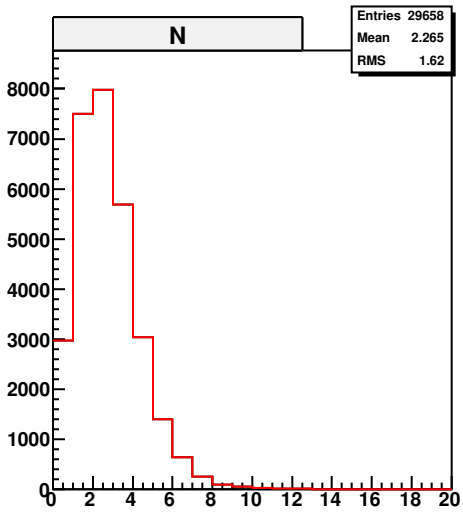

Time C layer Famus
Entries 31210
Mean 16.24
RMS 18.44

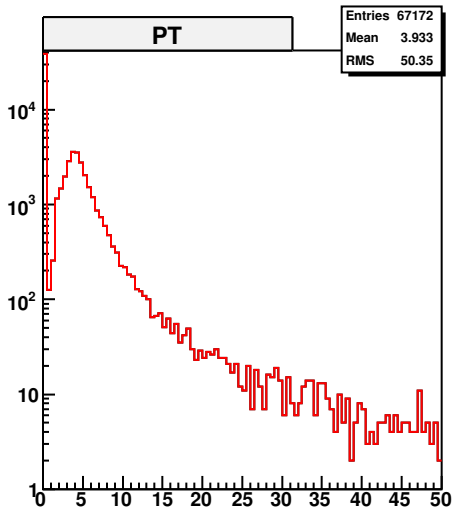

Layer vs Octant Wamus

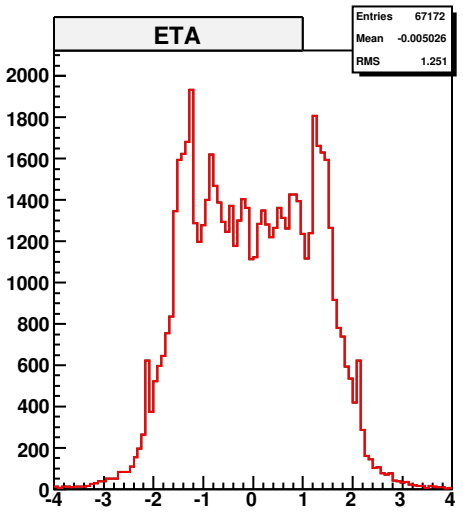

Layer vs Octant Famus N

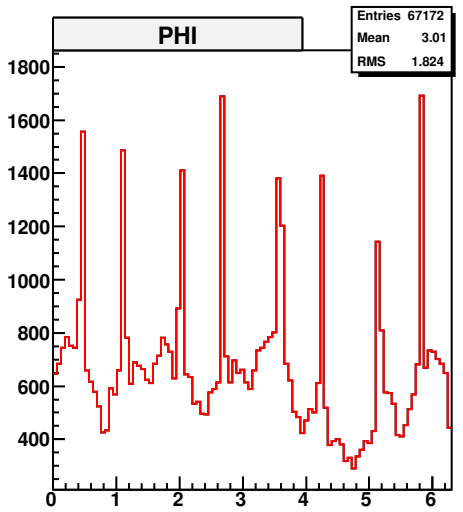

Layer vs Octant Famus S

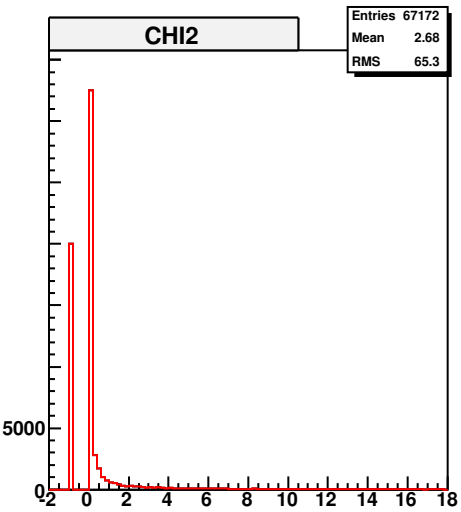
MuonMSC (All)

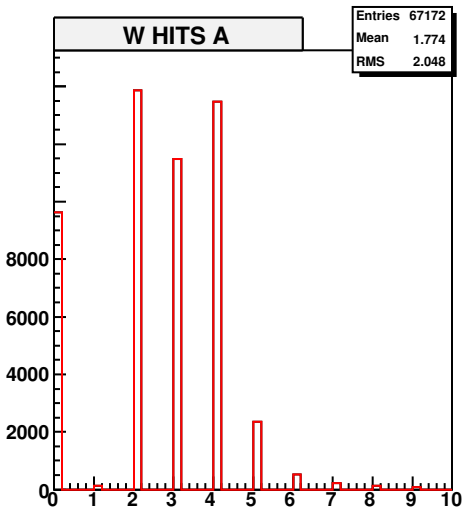


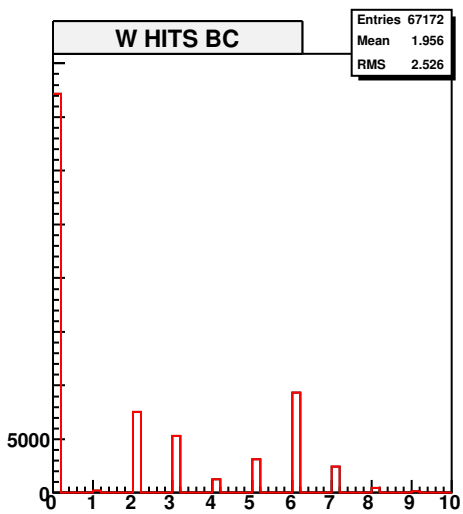


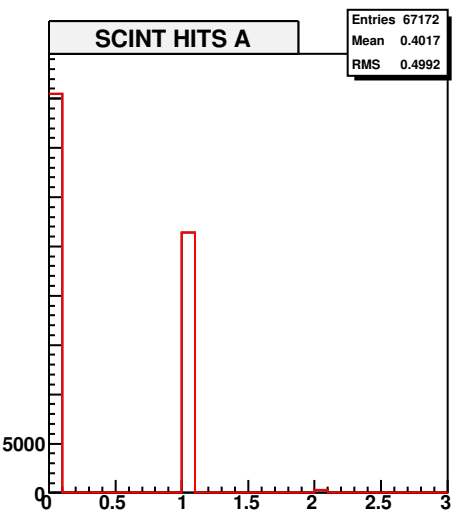


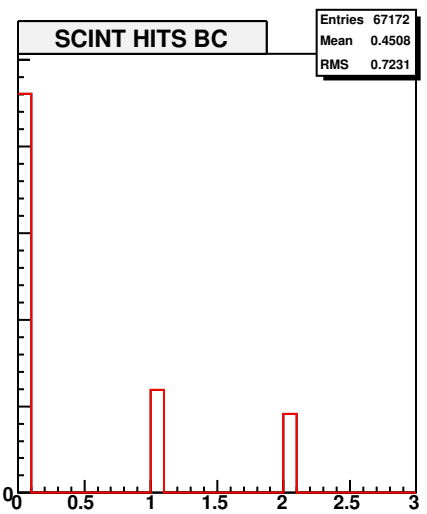




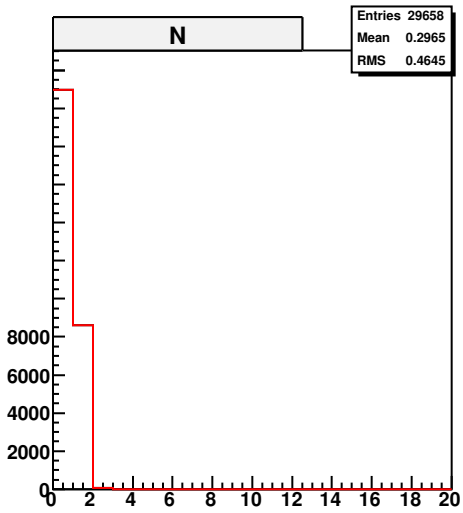


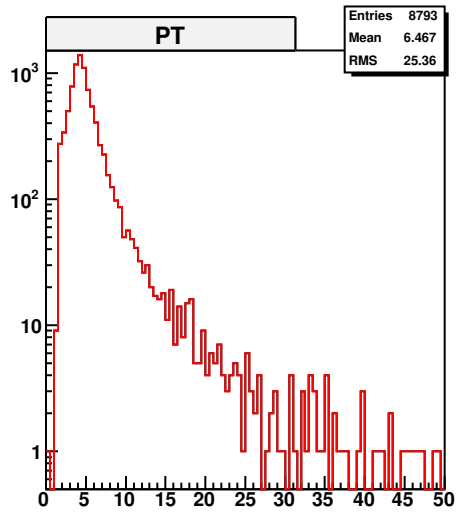


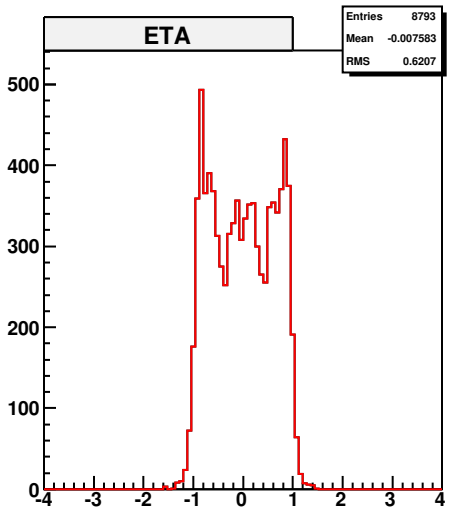


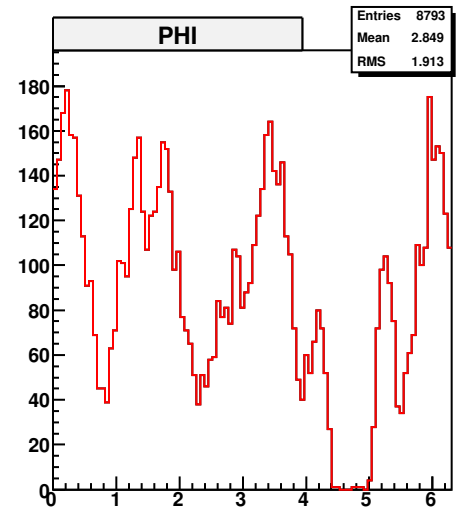


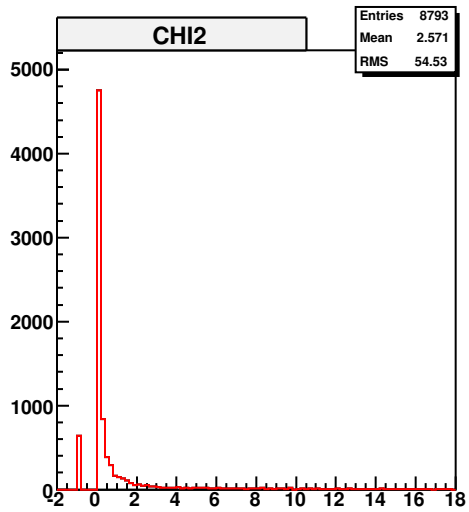
Muon Local Tracks (All)

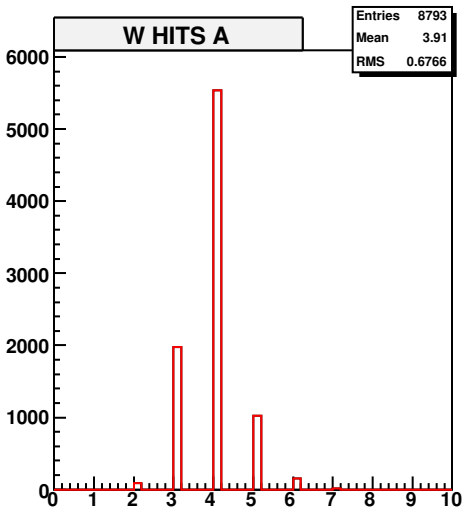


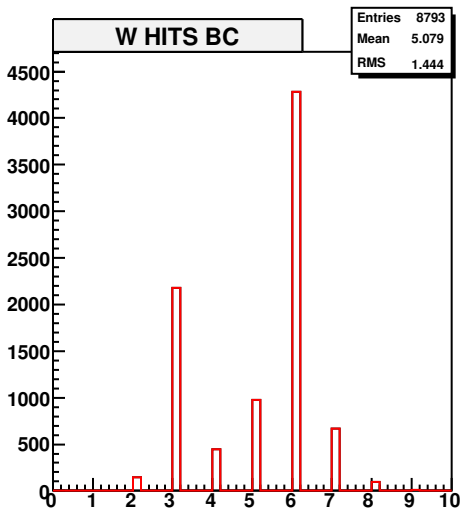


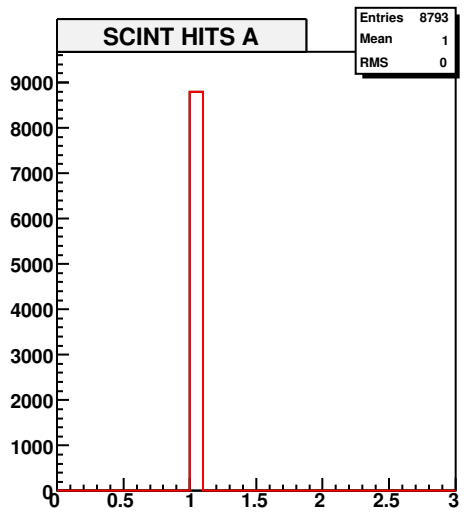


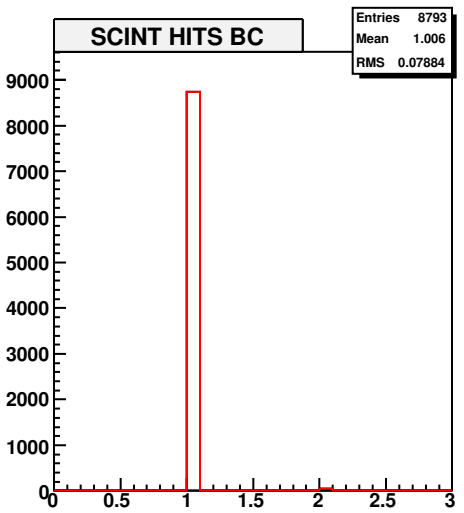




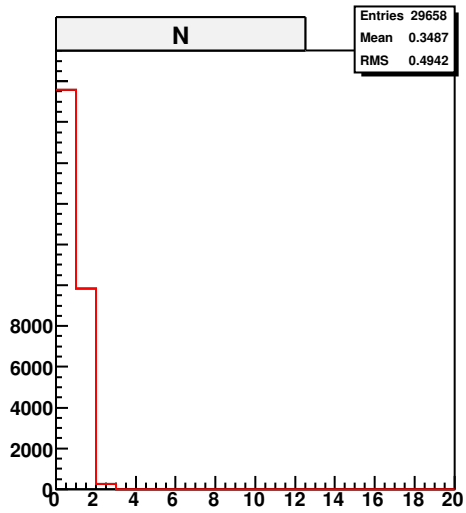


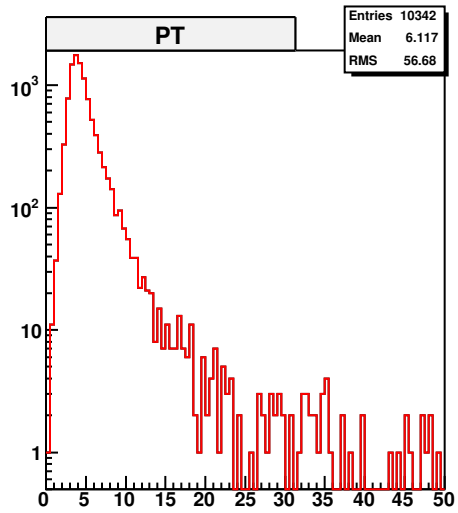


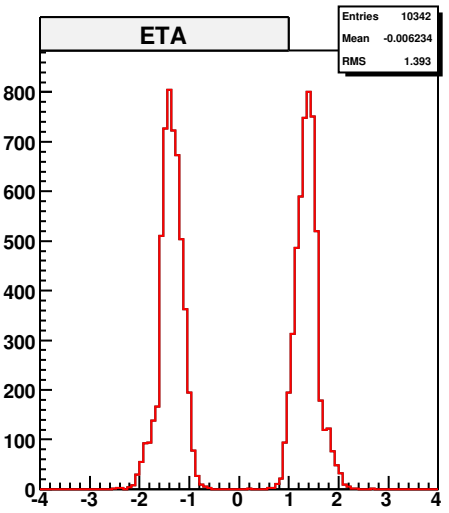


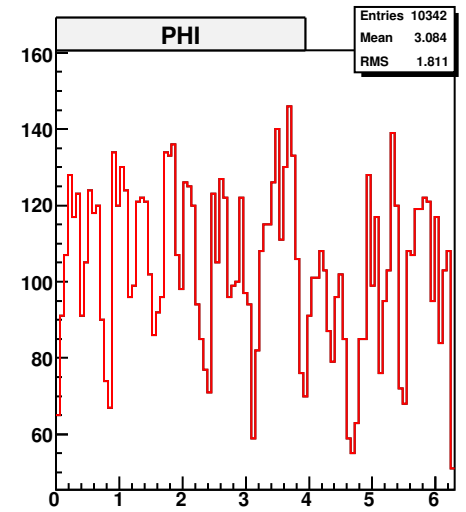


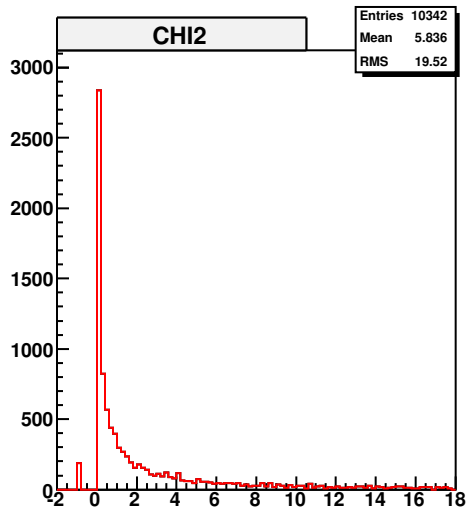
Muon Local Tracks (MediumWamus)

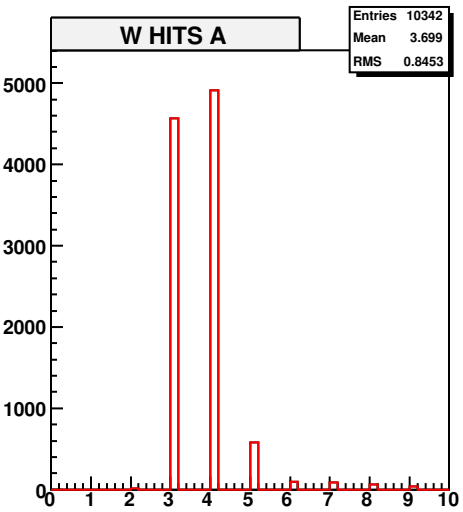


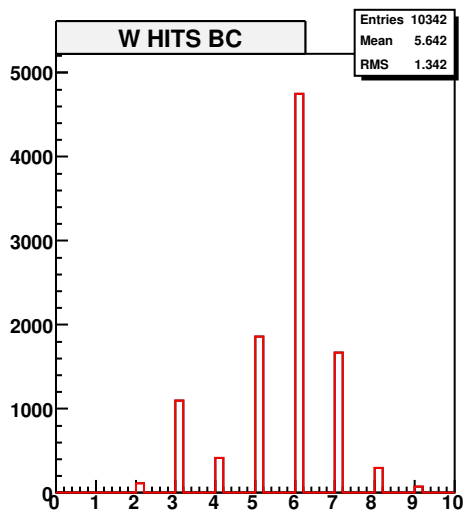


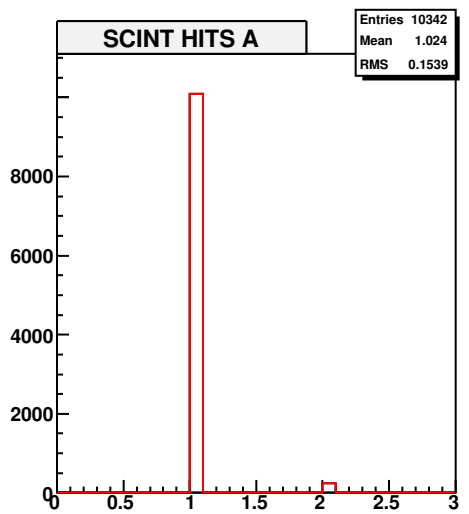


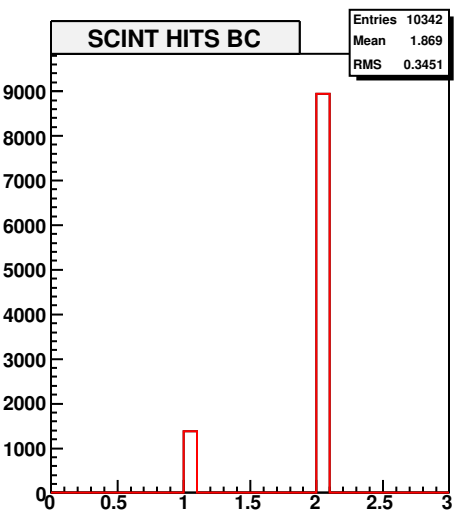




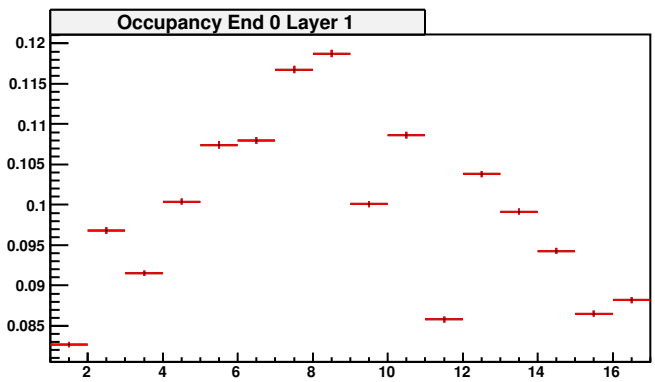


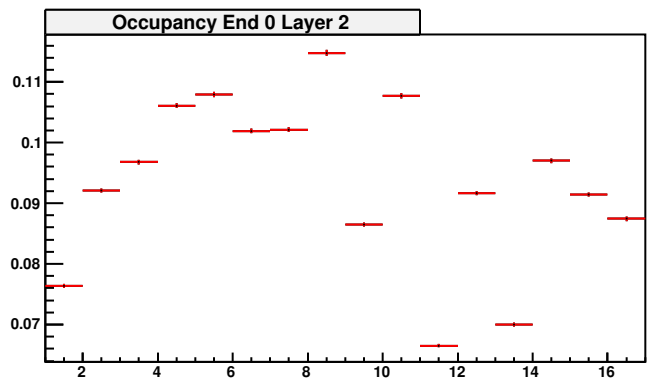


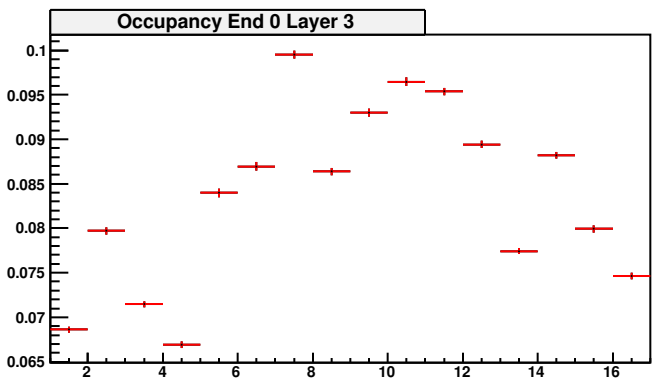


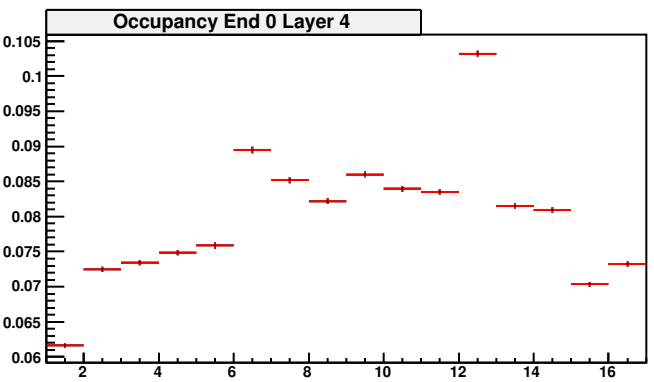


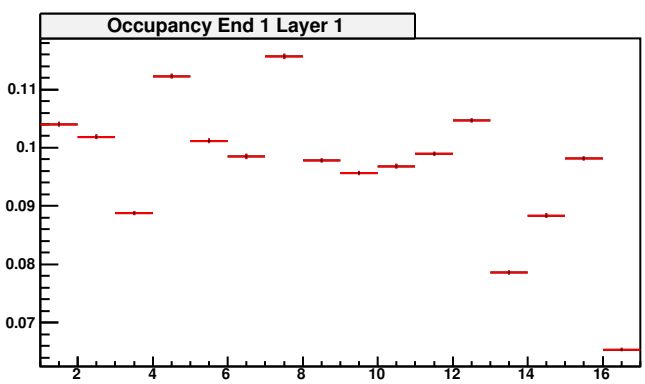
Muon Local Tracks (MediumFamus)

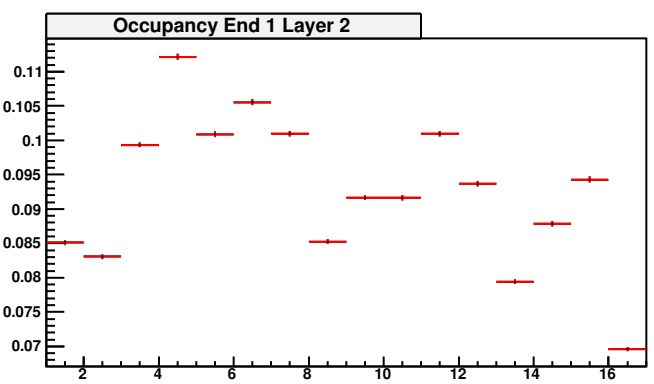


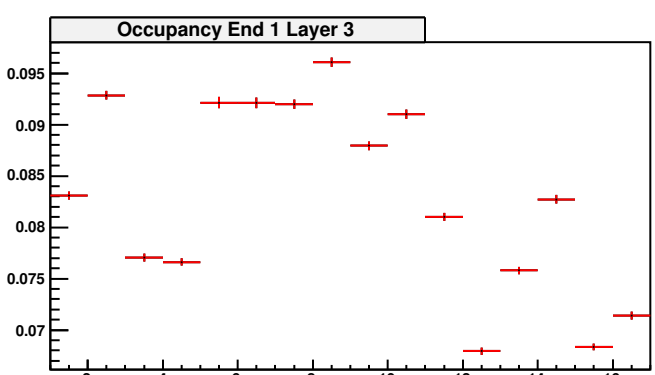


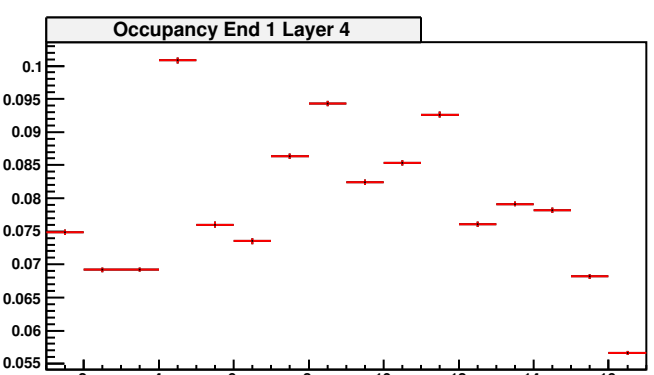




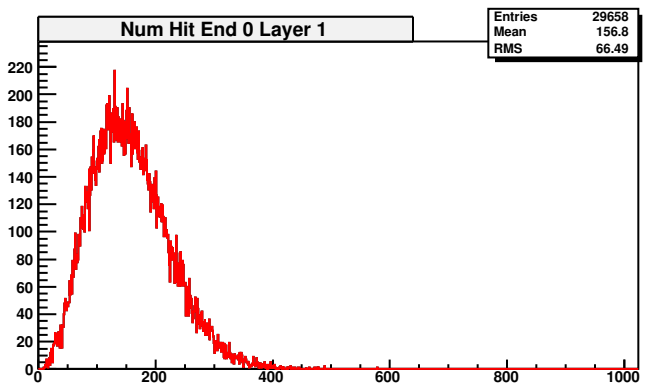


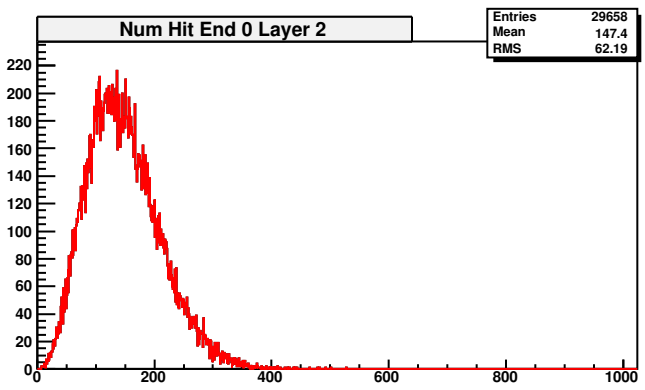


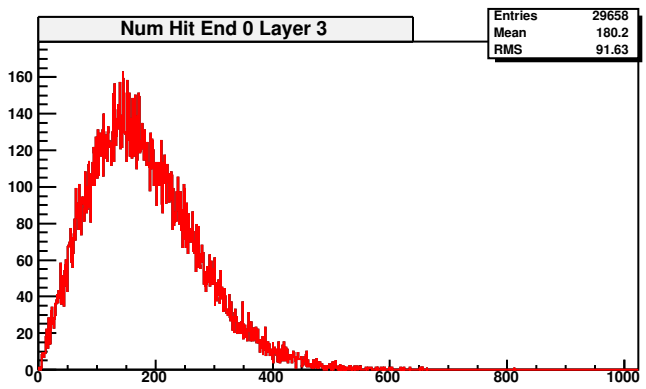


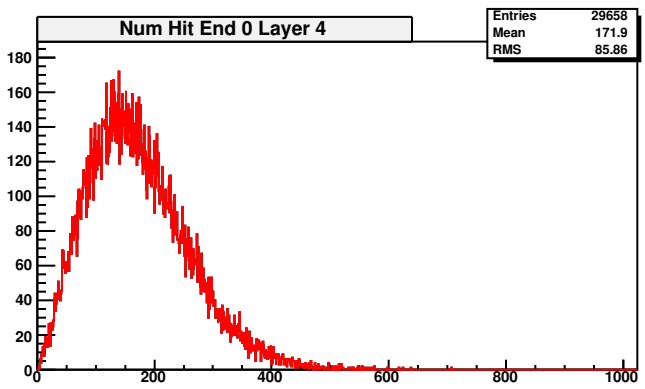


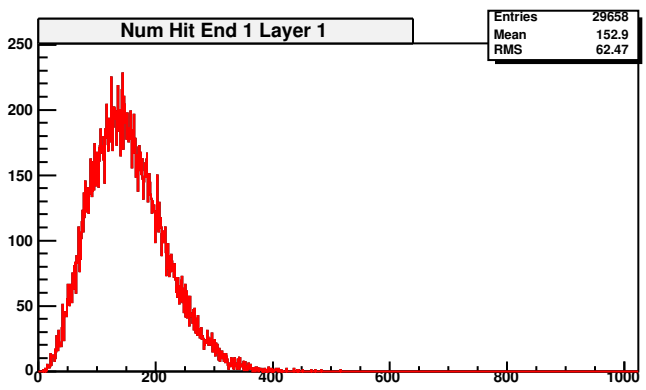
FPS Hit Occupancy (All)

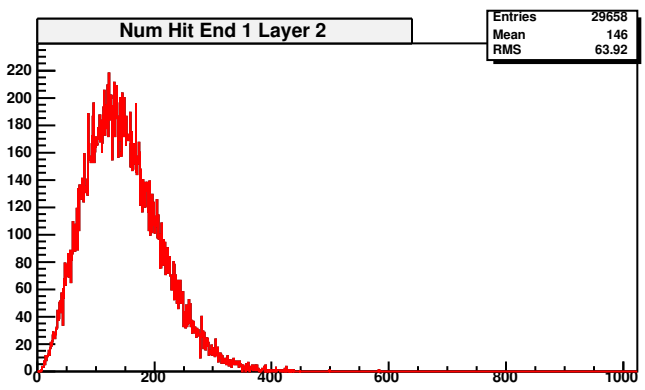


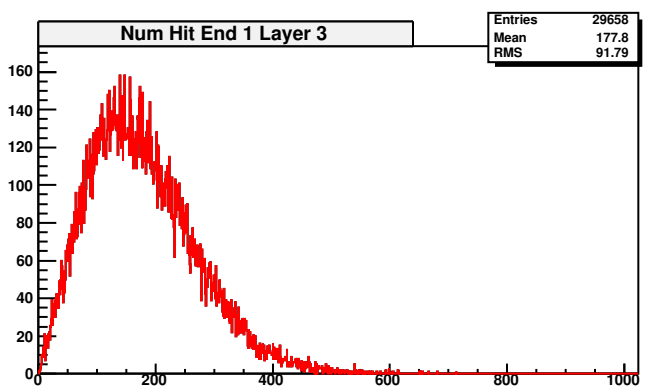


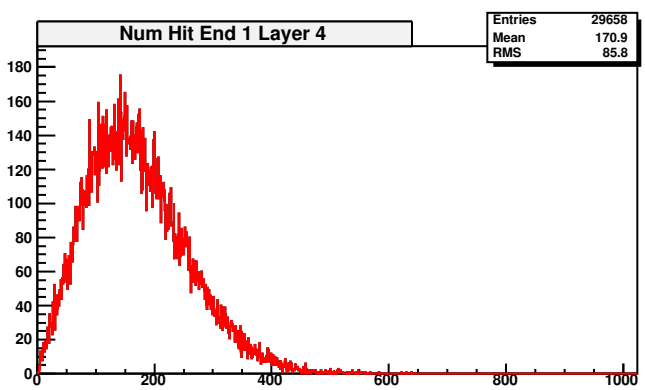




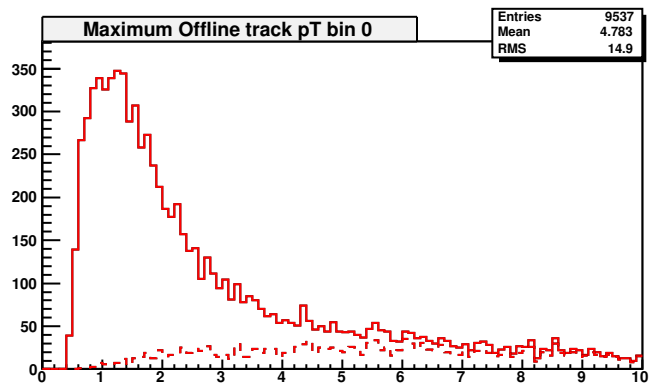


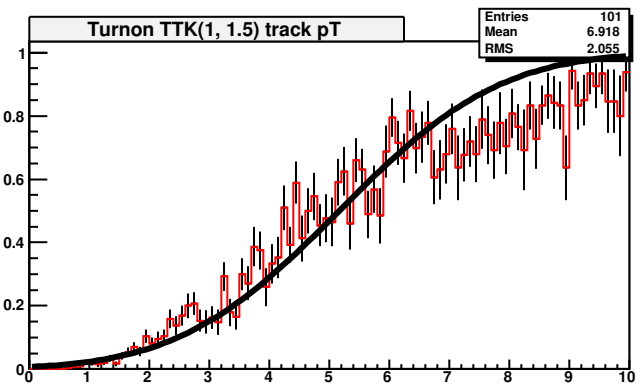


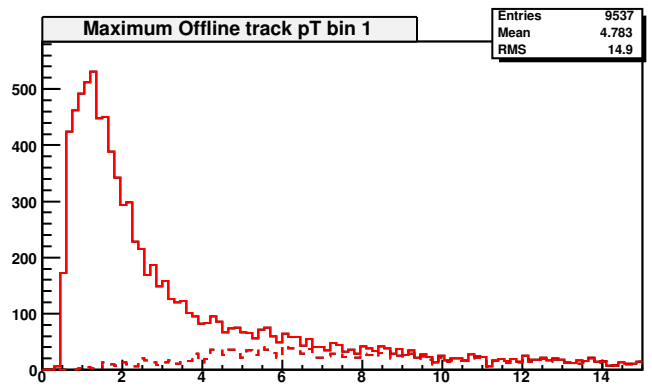


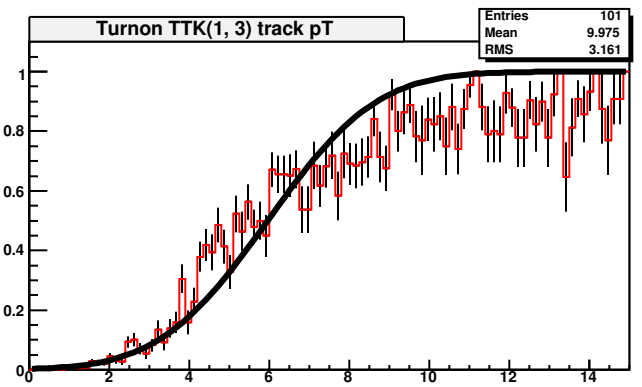


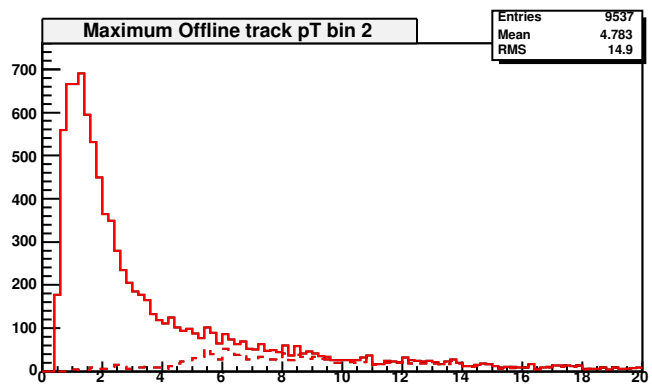
FPS Number of Hits (All)

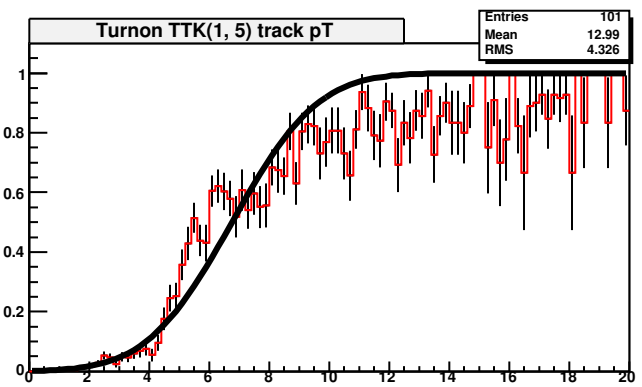


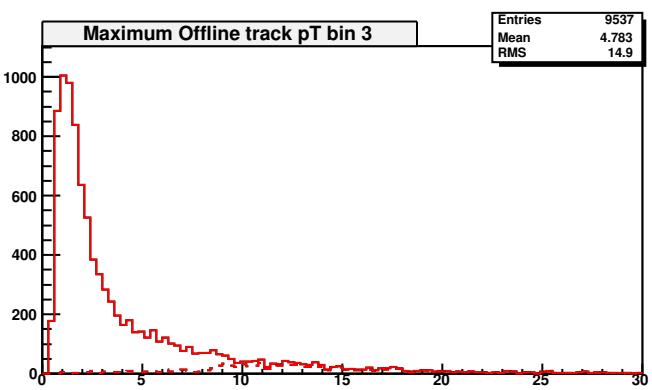


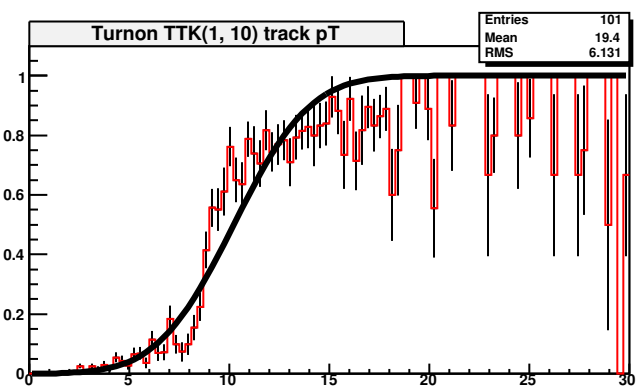




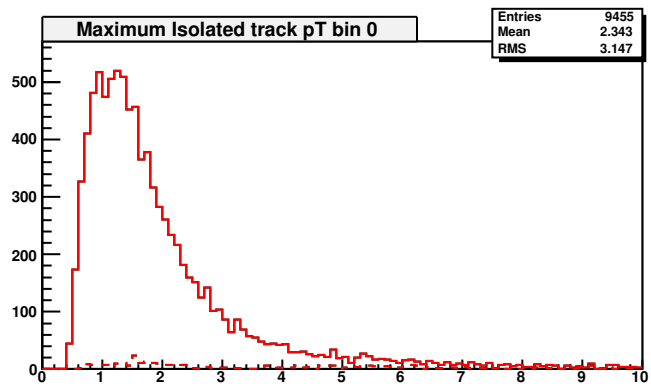


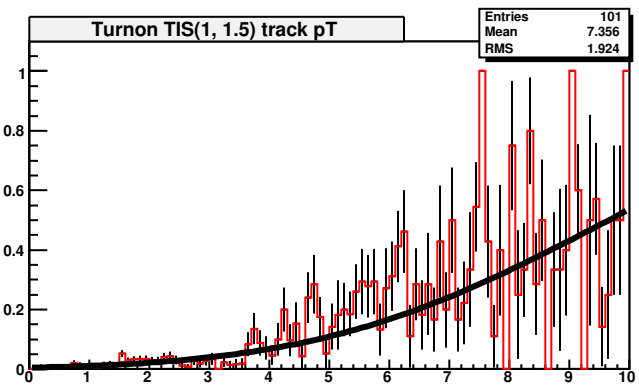


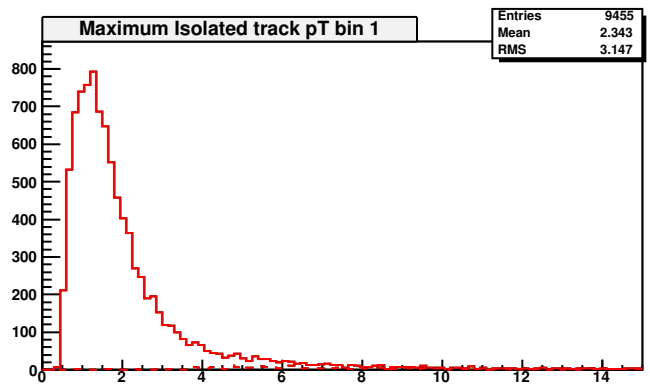


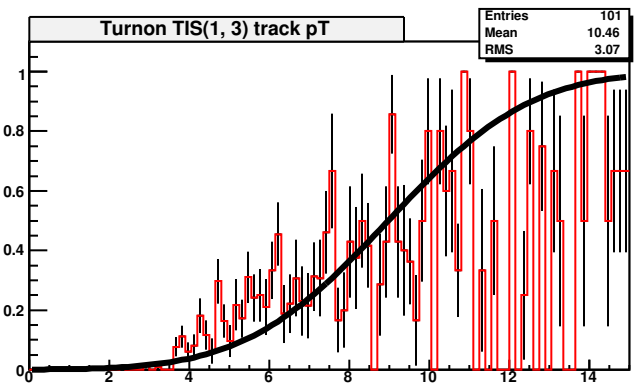


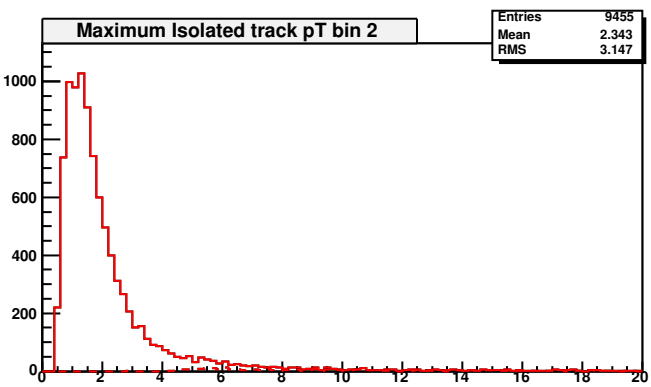
TTK Turnon curves (L1CTT All)

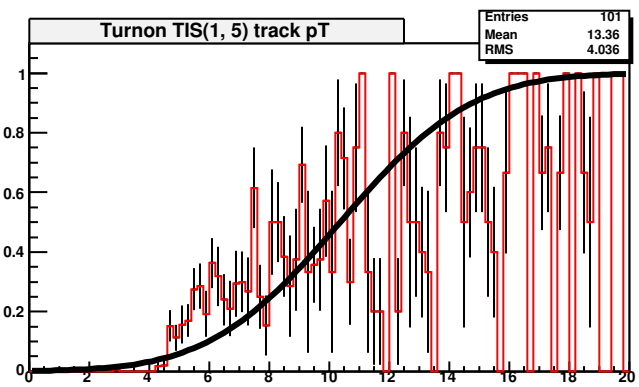


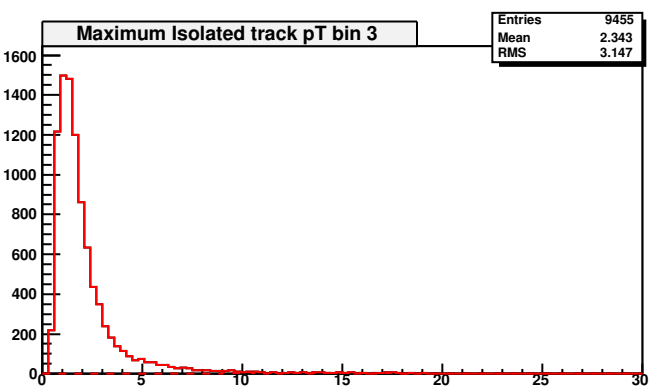


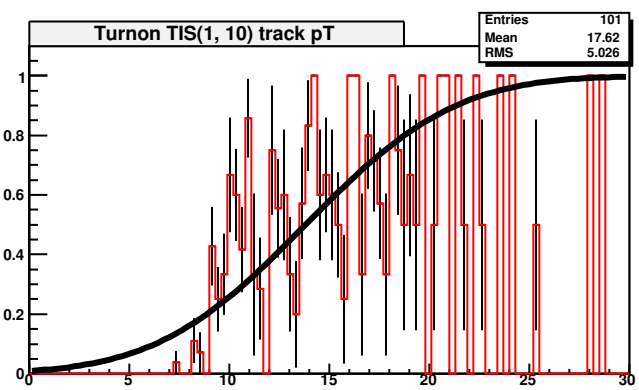




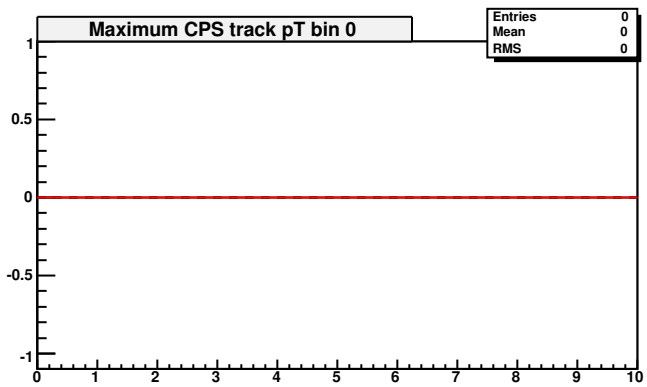


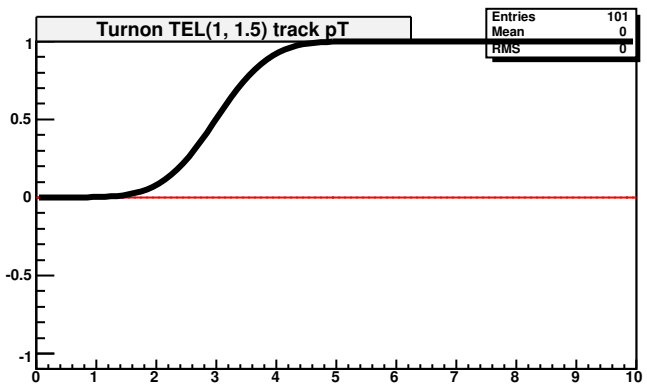


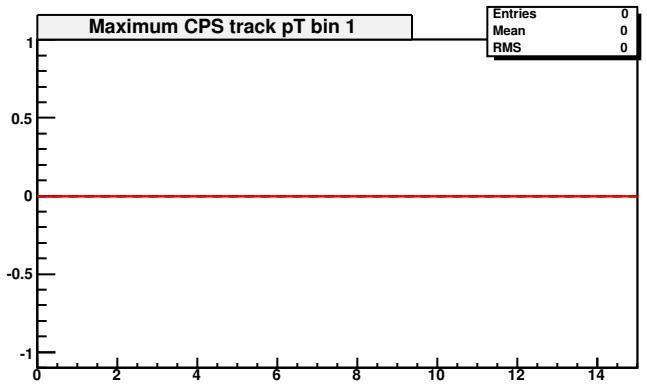


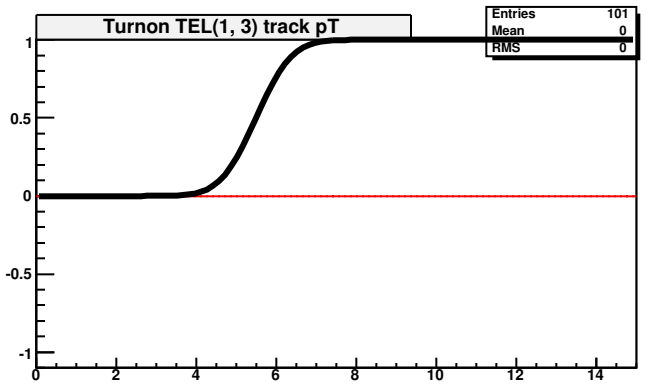


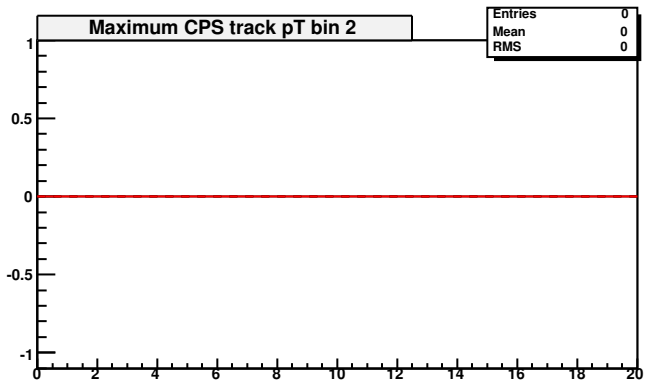
TIS Turnon curves (L1CTT All)

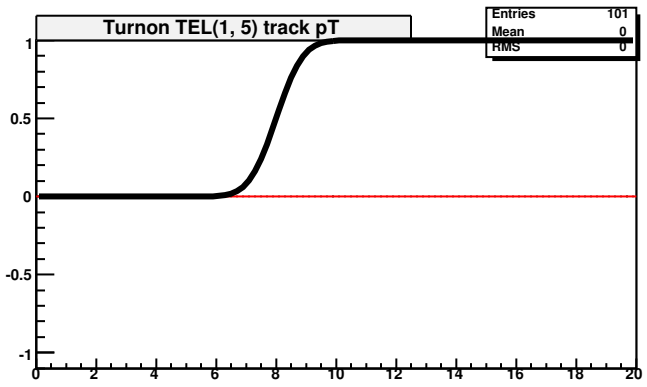


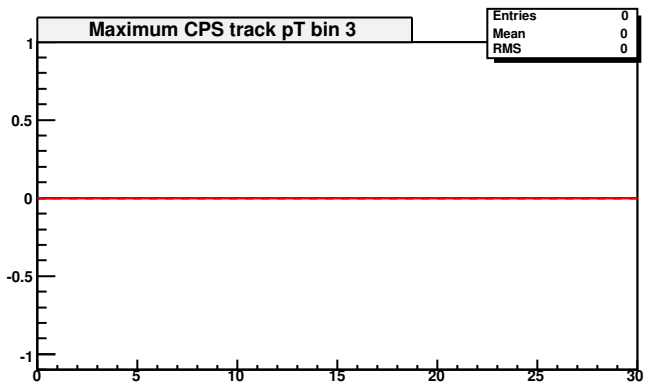


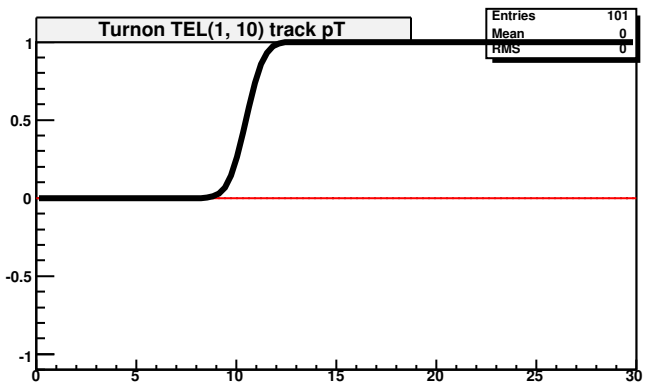




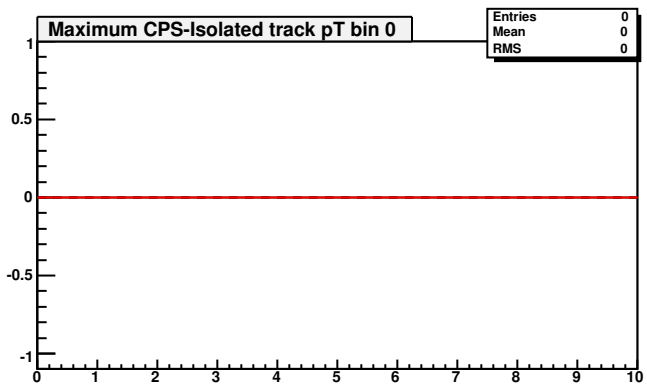


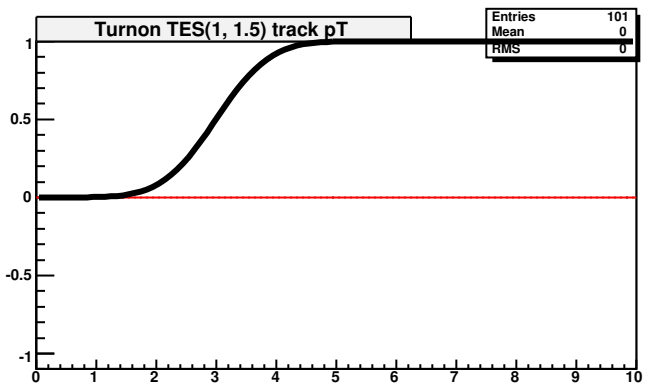


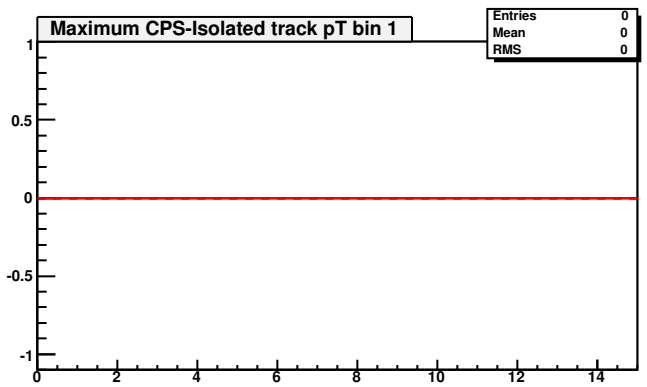


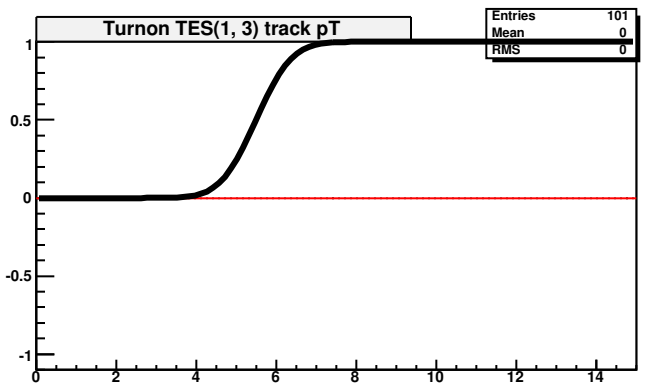


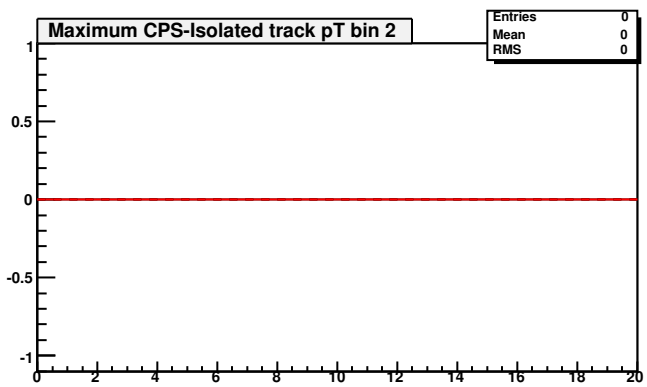
TEL Turnon curves (L1CTT All)

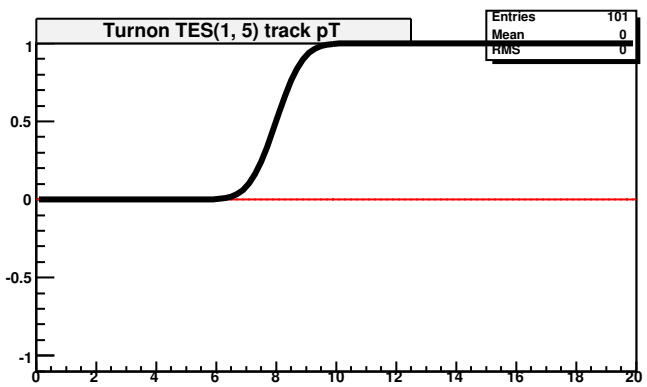


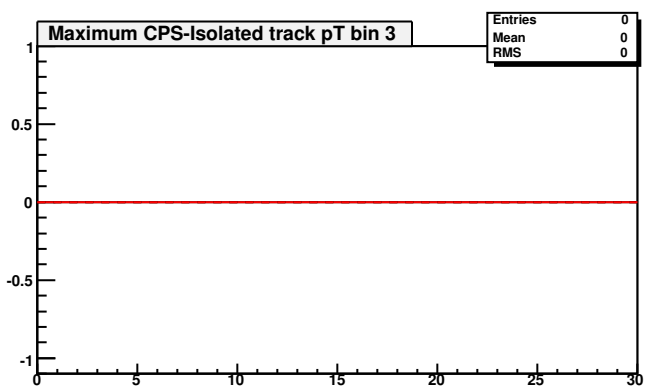


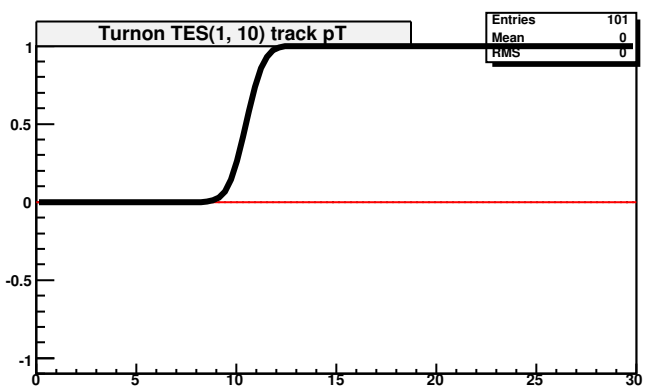




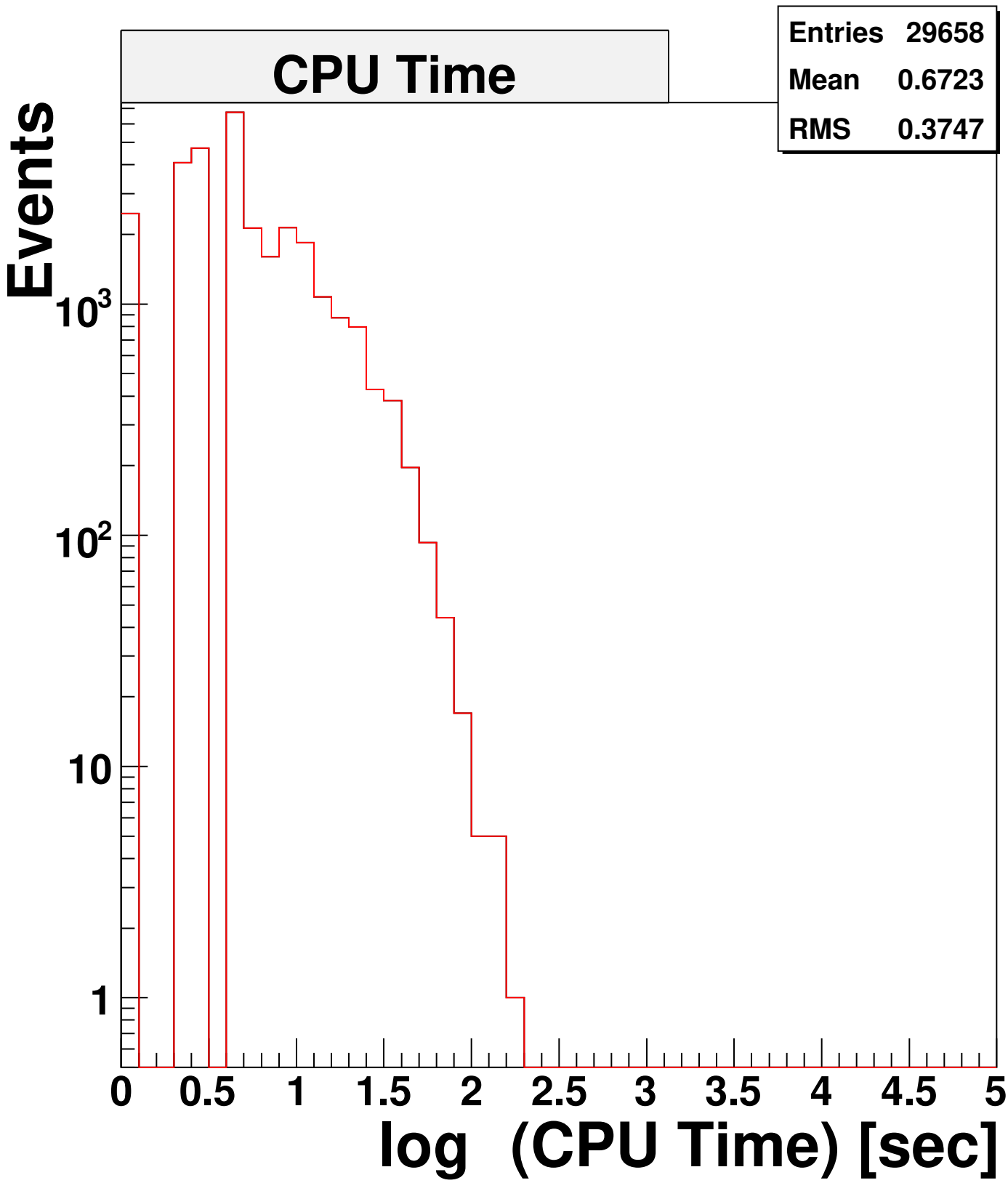








TES Turnon curves (L1CTT All)



RECO Performance (Timing)