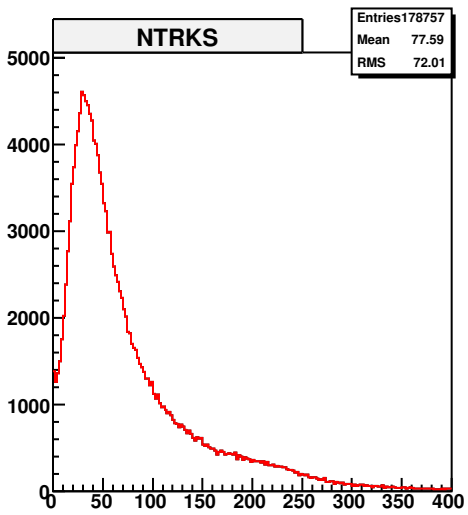
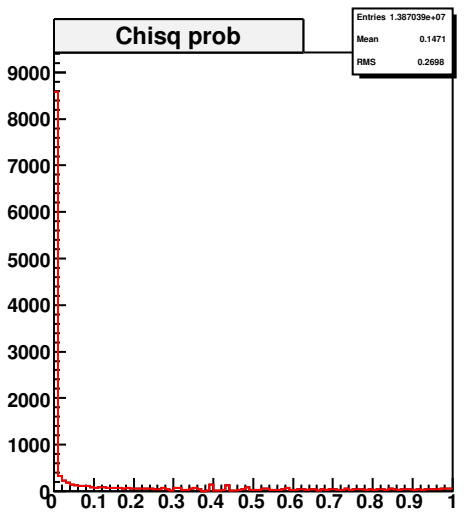
dayset-2006-08-30-all_1-224680-0_certification_20070
../unmerged/dayset-2006-08-30-all_1-224680-0_certific

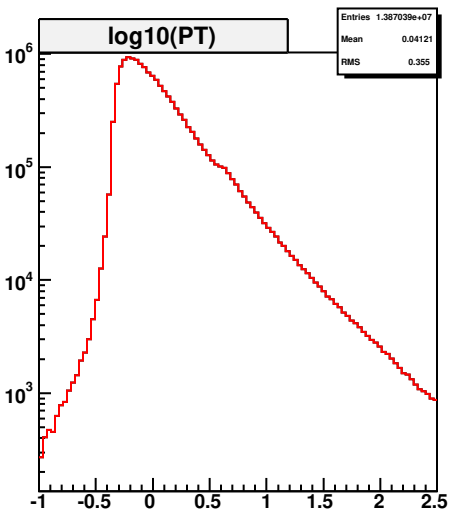
Page 3: Tracks (All)
Page 4: Tracks Hits (All)
Page 5: Tracking (Efficiency - Isolated)
Page 6: Tracking (Efficiency - InJets)
Page 7: Vertices (Primary - all candidates)
Page 8: Vertices (Primary - best)
Page 9: V0 (All)
Page 10: V0 (B mesons)
Page 11: Electrons (SCONE All)
Page 12: Electrons (SCONE Tight)
Page 13: Muons (All)
Page 14: Muons (Matched)
Page 15: Muons (Astub)
Page 16: Muons (BCstub)
Page 17: Muons (Unmateched)
Page 18: Taus NN (ALL)
Page 19: Taus NNL3 (ALL)
Page 20: Met (No cuts)
Page 21: Jets (Cone R 0.7 no cuts)
Page 22: Jets (Cone R 0.7 standard cuts)
Page 23: Jets (Cone R 0.7 standard cuts, MET>30)
Page 24: Detector Occupancy (Detector)
Page 25: Detector Occupancy (Detector vs Detector)
Page 26: Calorimeter (All cells)
Page 27: Calorimeter (All CC cells)
Page 28: Calorimeter (All EC cells)
Page 29: Cal Objects with MET>30 (All cells)
Page 30: Calorimeter Event Quality (All cells)
Page 31: CPS Hit Strips (All Clusters)
Page 32: CPS Clusters (All Clusters)
Page 33: SmtClusters (allBarClusters)
Page 34: SmtClusters (allFDiskClusters)
Page 35: SmtClusters (allHDiskClusters)
Page 36: SmtClusters (Layer 0)
Page 37: SmtClusters (ClustrBar1)
Page 38: SmtClusters (ClustrBar2)
Page 39: SmtClusters (ClustrBar3)
Page 40: SmtClusters (ClustrBar4)
Page 41: SmtClusters (ClustrBar5)
Page 42: SmtClusters (ClustrBar6)
Page 43: SmtClusters (FDiskClusters)
Page 44: SmtClusters (HDiskClusters)
Page 45: CFT Summary (All Clusters)
Page 46: CFT Occupancy (All Clusters)
Page 47: CFT ADC Summary (All Clusters)
Page 48: MuonPDT (All)
Page 49: MuonMDT (All)
Page 50: MuonMSC (All)
Page 51: Muon Local Tracks (All)
Page 52: Muon Local Tracks (MediumWamus)
Page 53: Muon Local Tracks (MediumFamus)

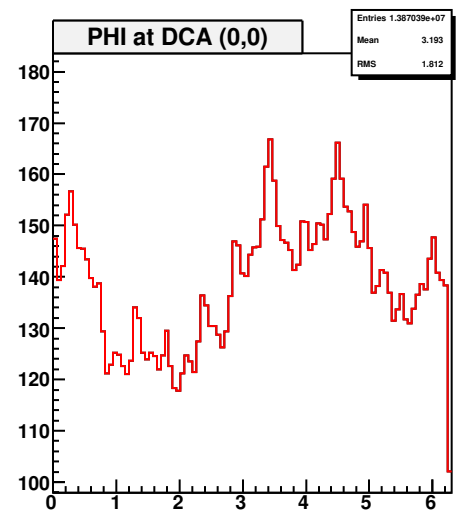
RecoCert_Plots (Index)

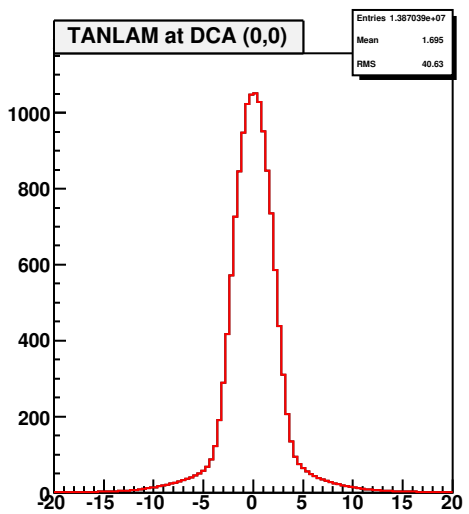
Page 54: FPS Trigger Sector Occupancy
Page 55: FPS Number of Hits
Page 56: L1CTT TTK Trigger Turn-on (All)
Page 57: L1CTT TIS Trigger Turn-on (All)
Page 58: L1CTT TEL Trigger Turn-on (All)
Page 59: L1CTT TES Trigger Turn-on (All)
Page 60: RECO Performance (Timing)

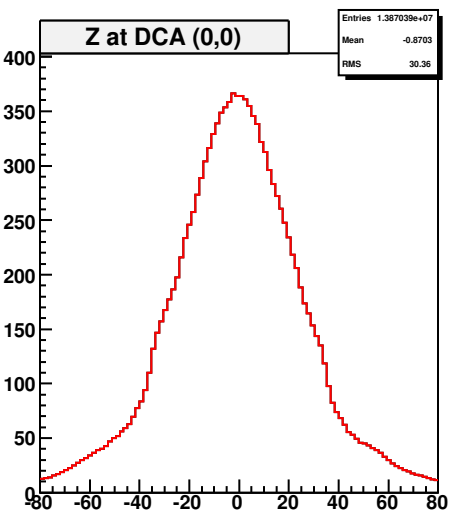

NTRKS
Entries178757
Mean 77.59
RMS 72.01

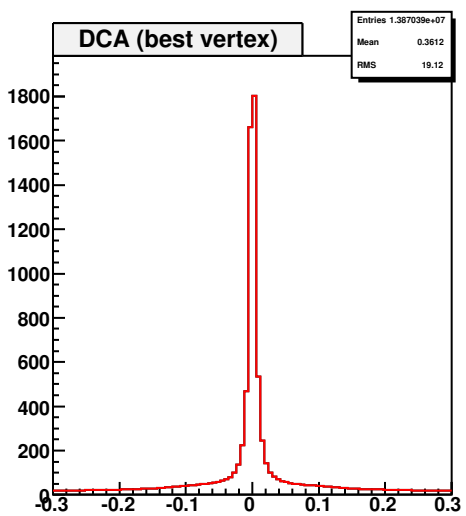

Chisq prob
Entries 1.387039e+07
Mean 0.1471
RMS 0.2698

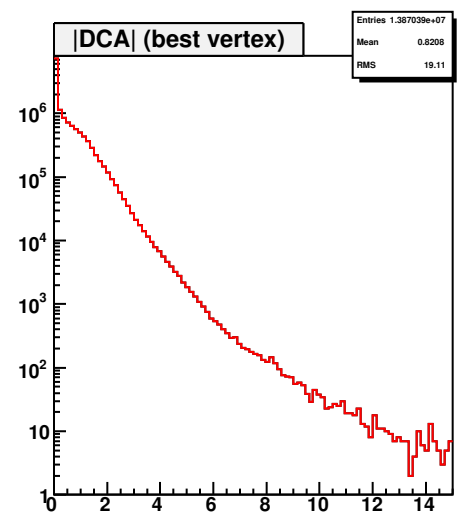

log10(PT)
Entries 1.387039e+07
Mean 0.04121
RMS 0.355

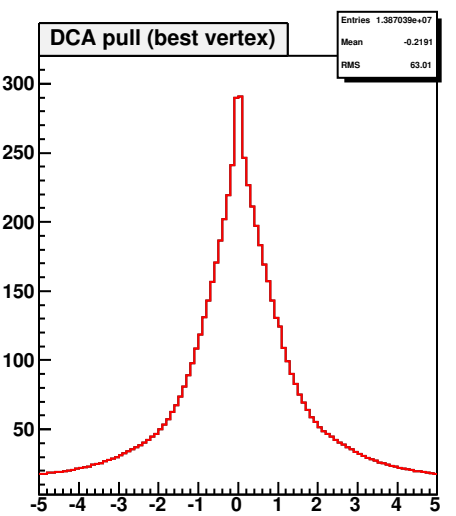

PHI at DCA (0,0)
Entries 1.387039e+07
Mean 3.193
RMS 1.812


TANLAM at DCA (0,0)
Entries 1.387039e+07
Mean 1.695
RMS 40.63

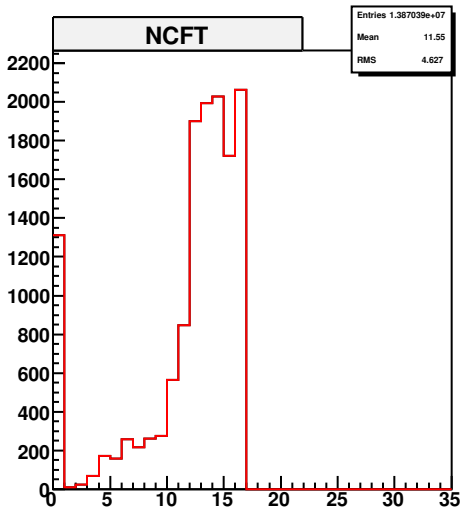

Z at DCA (0,0)
Entries 1.387039e+07
Mean -0.8703
RMS 30.36

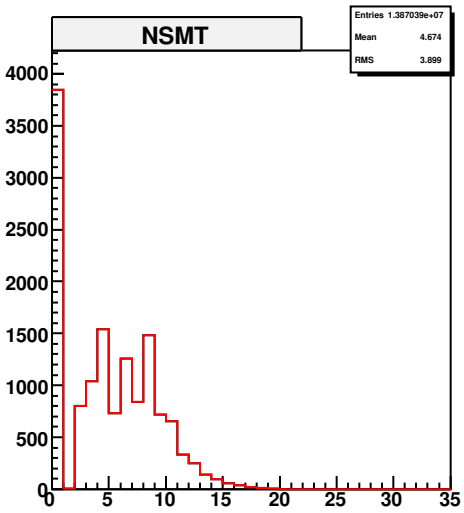

DCA (best vertex)
Entries 1.387039e+07
Mean 0.3612
RMS 19.12

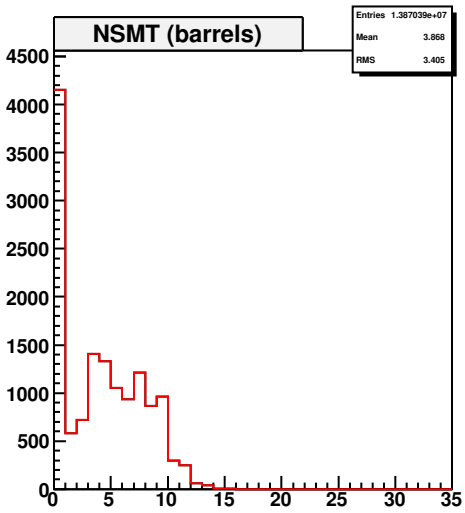

|DCA| (best vertex)
Entries 1.387039e+07
Mean 0.8208
RMS 19.11

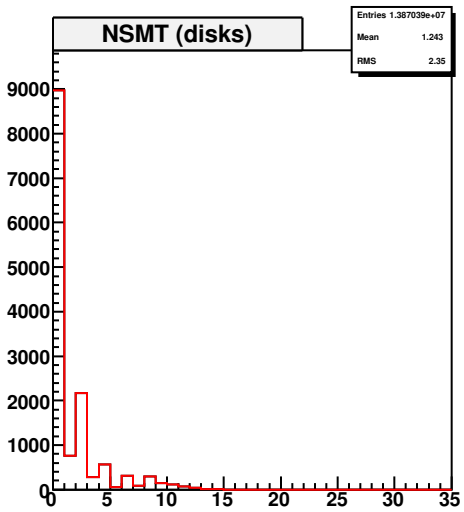

DCA pull (best vertex)
Entries 1.387039e+07
Mean -0.2191
RMS 63.01

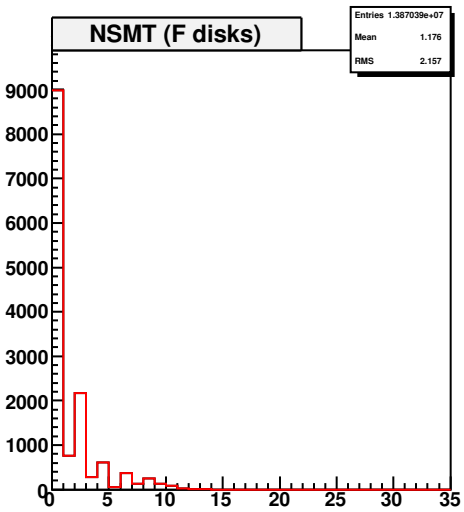
Tracks (All)

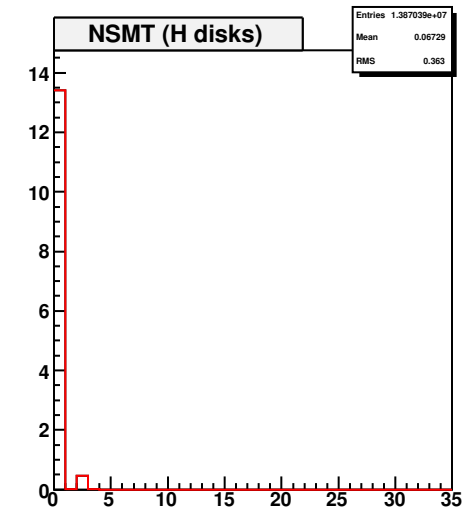


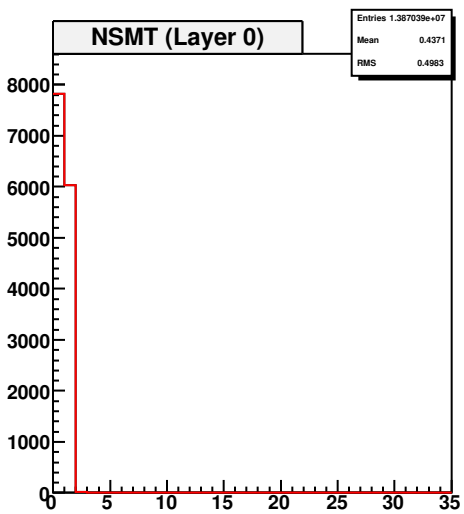




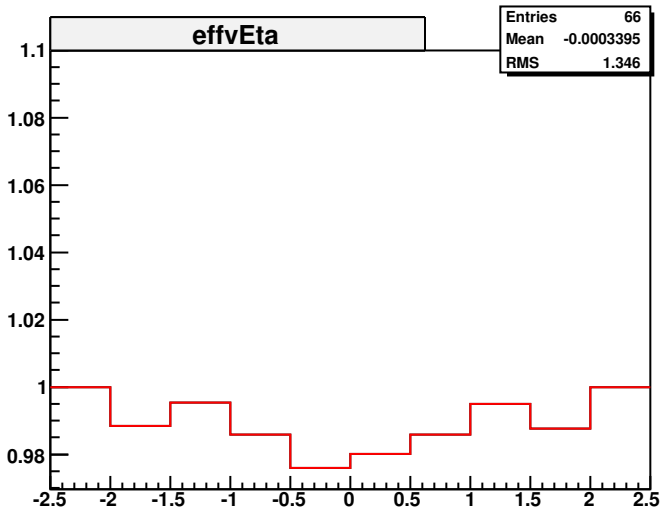


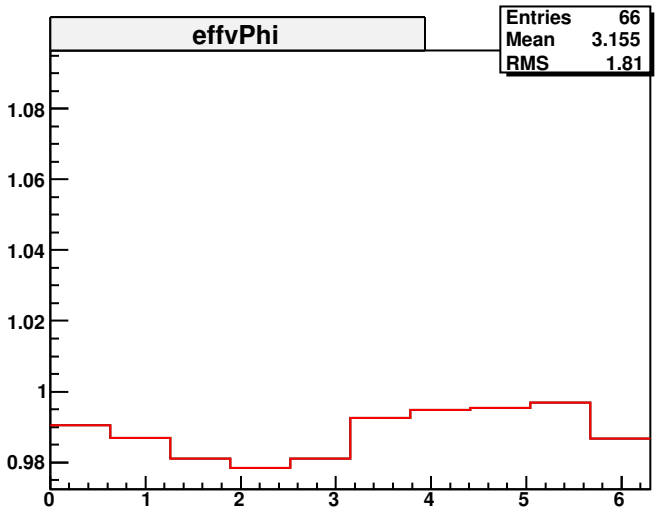


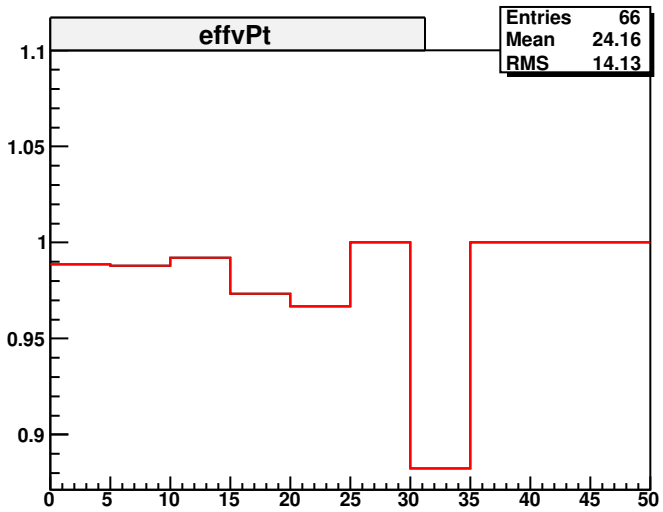


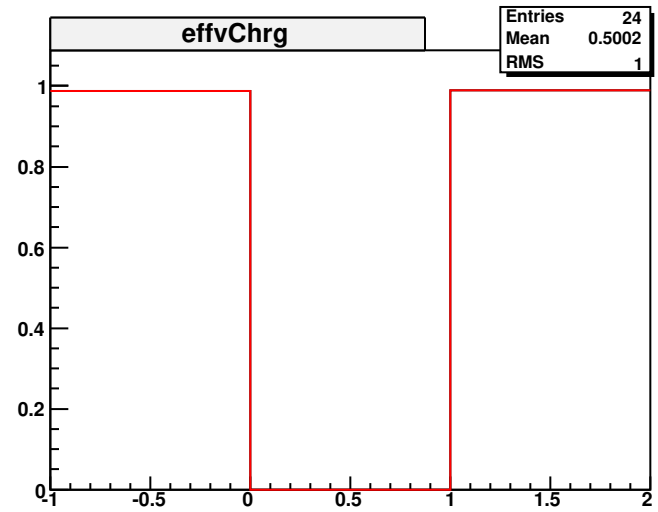


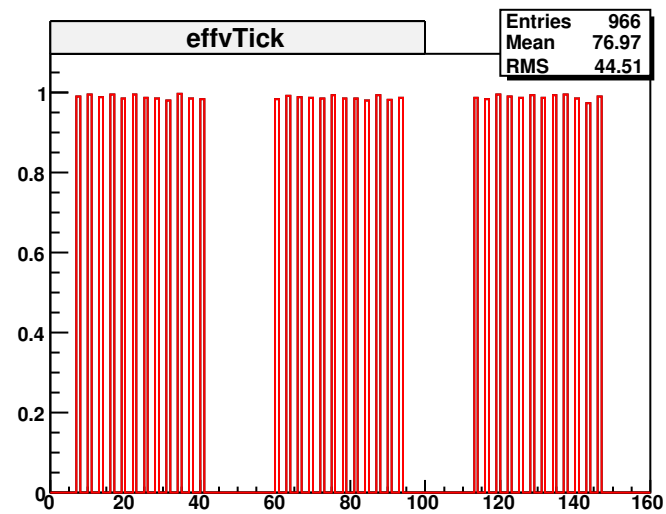
Track Hits (All)

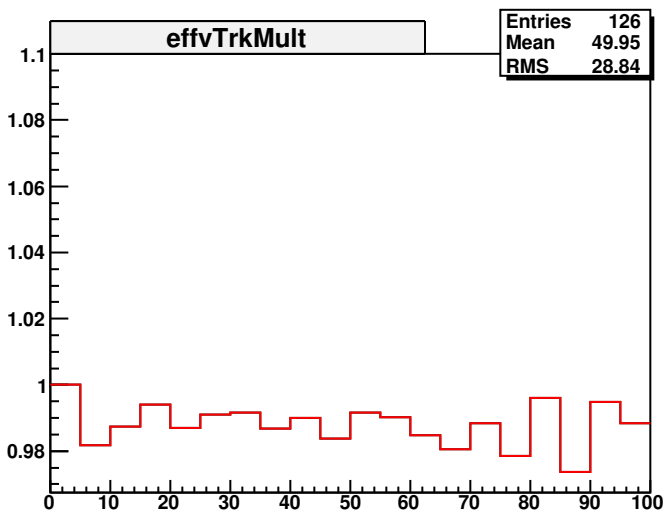




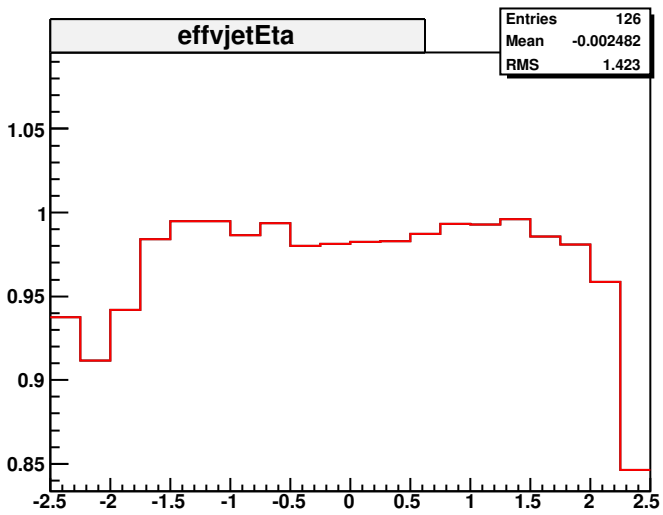


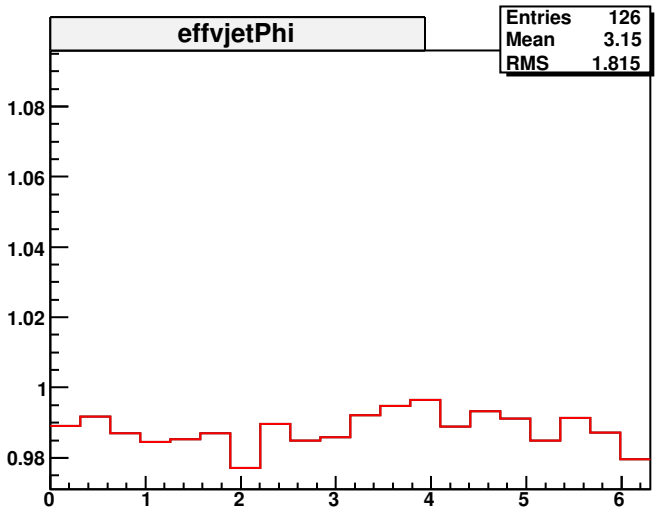


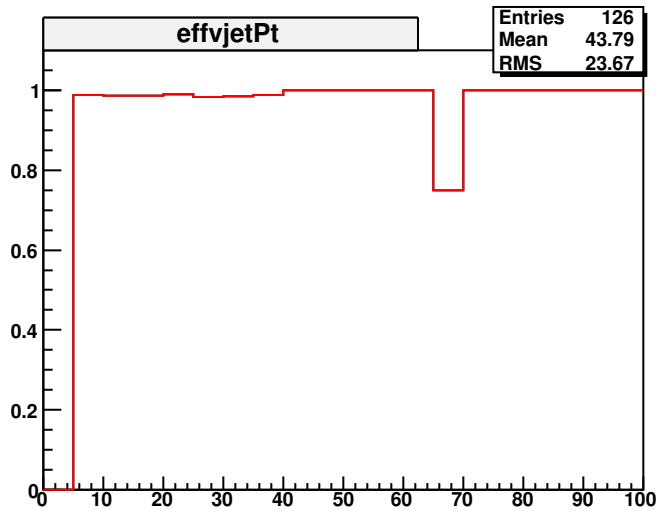


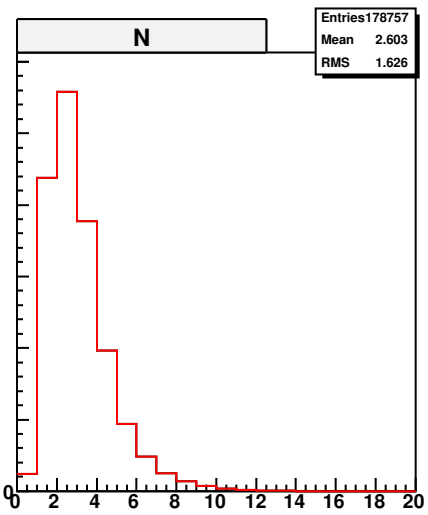


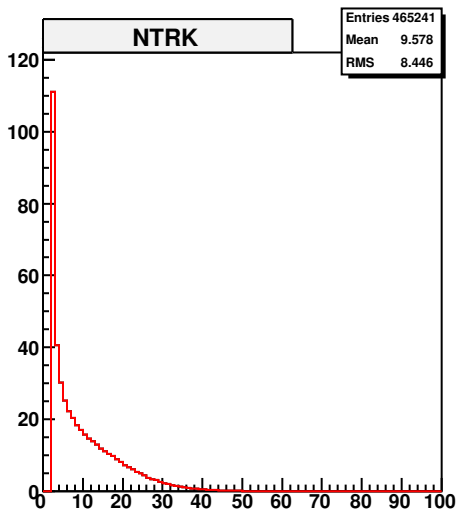
Tracking (Efficiency-Isolated)

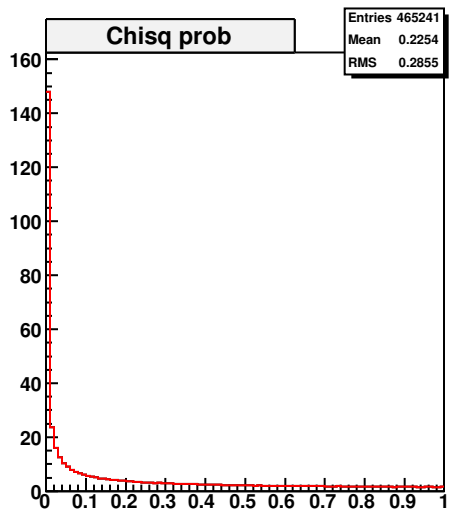

effvjetEta
Entries 126
Mean -0.002482
RMS 1.423
1.05
1
0.95
0.9
0.85
-2.5 -2 -1.5 -1 -0.5 0 0.5 1 1.5 2 2.5

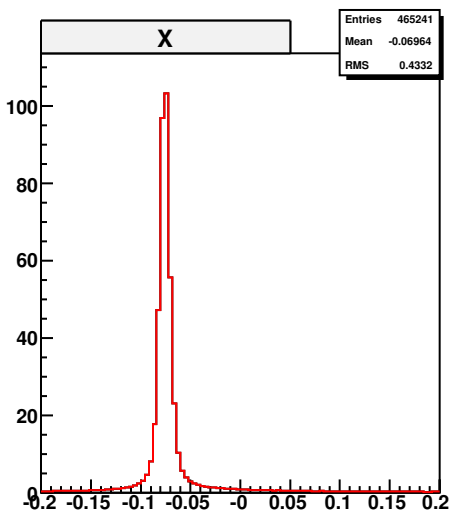

effvjetPhi
Entries 126
Mean 3.15
RMS 1.815
1.08
1.06
1.04
1.02
1
0.98
0 1 2 3 4 5 6

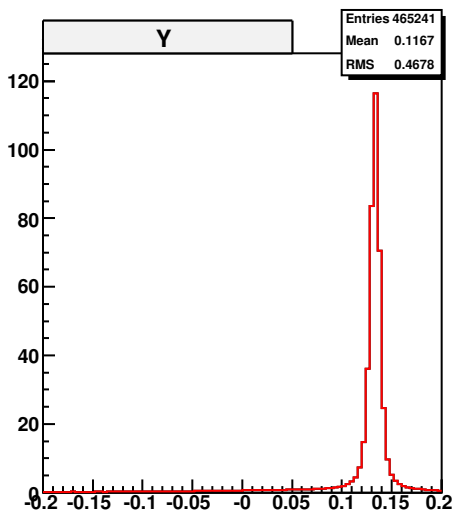

effvjetPt
Entries 126
Mean 43.79
RMS 23.67
1
0.8
0.6
0.4
0.2
0
0 10 20 30 40 50 60 70 80 90 100

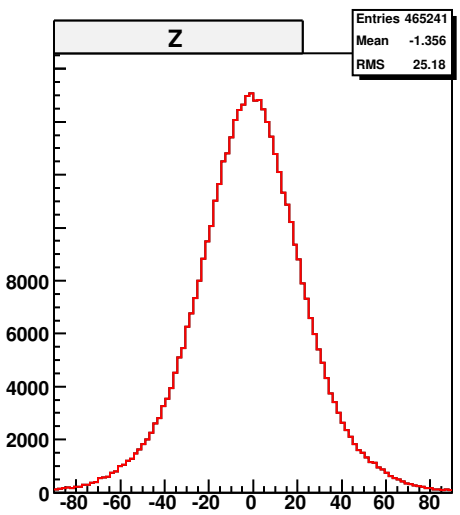




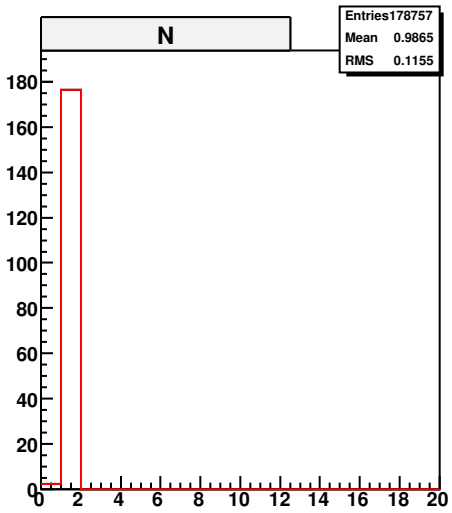


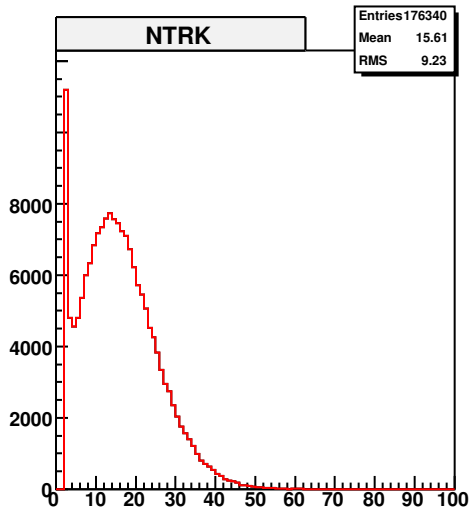


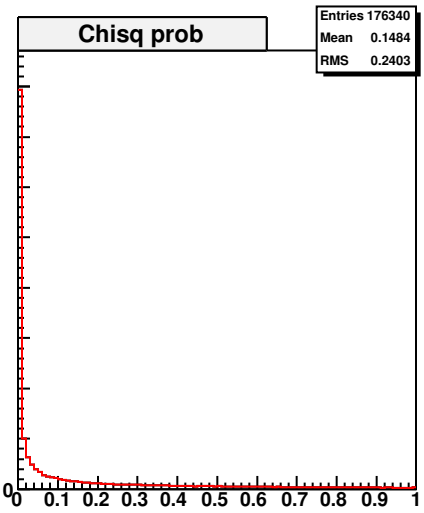


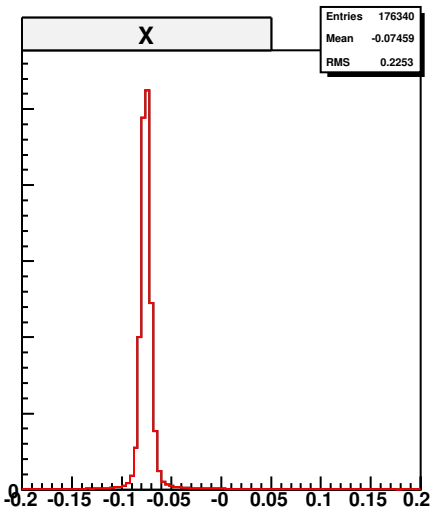


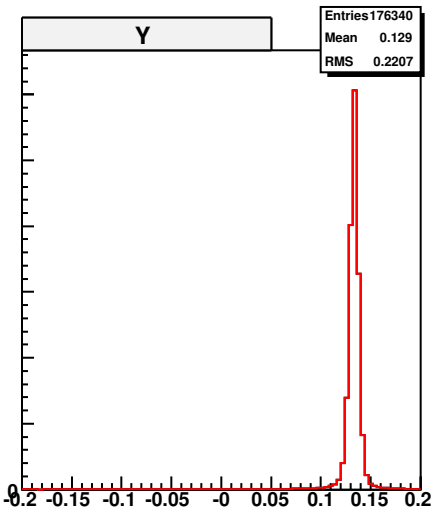
Vertices (Primary - all candidates)

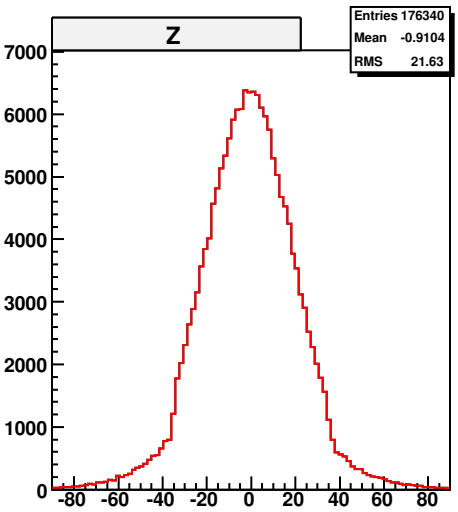




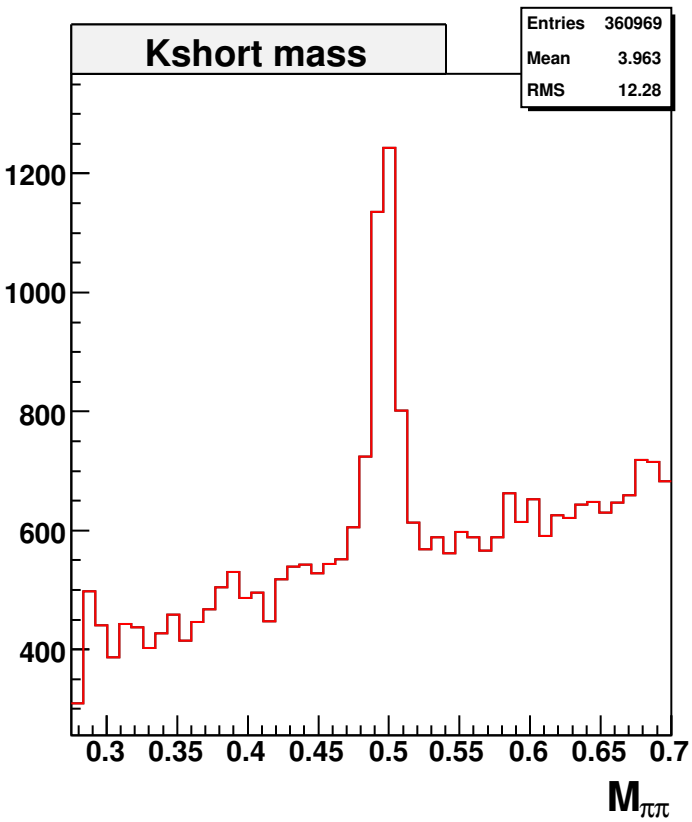


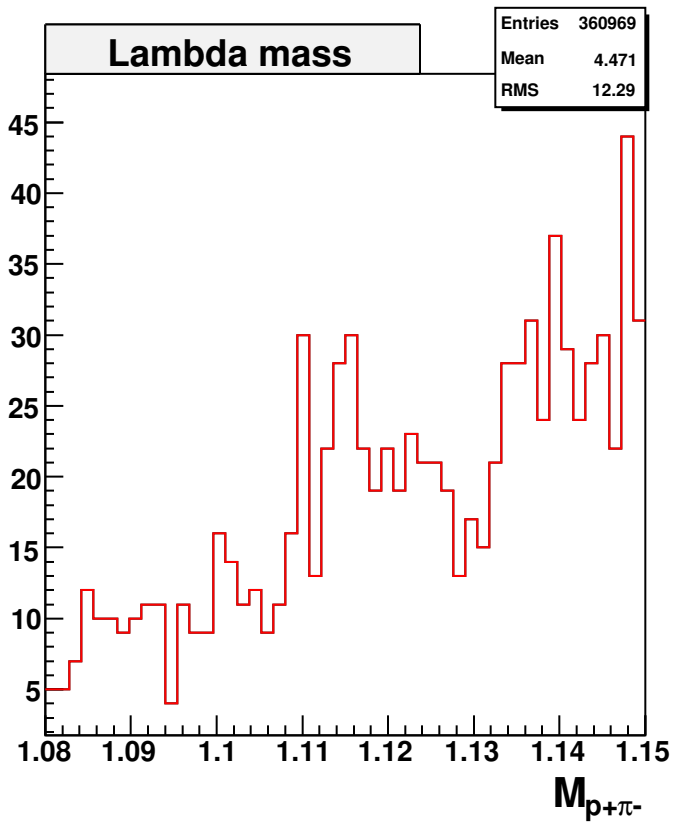


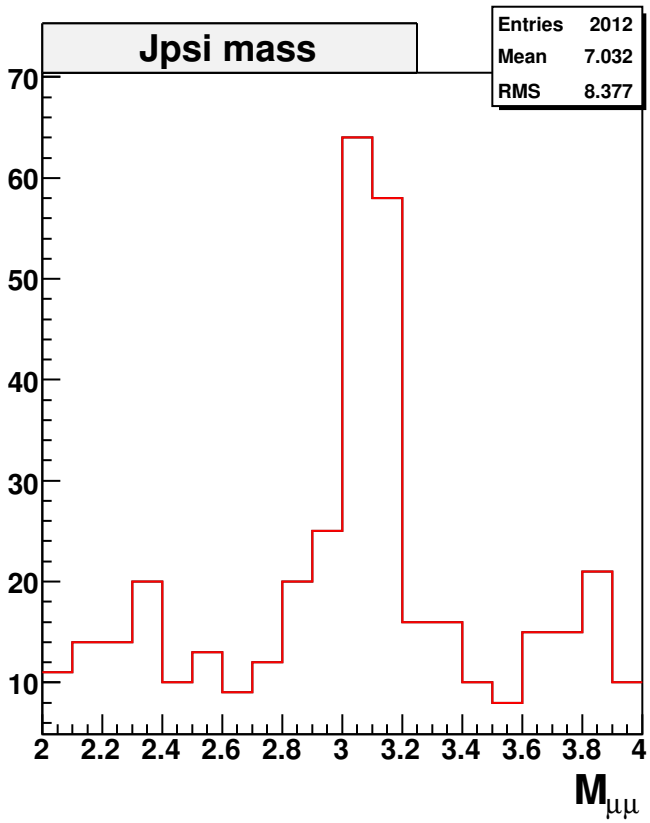


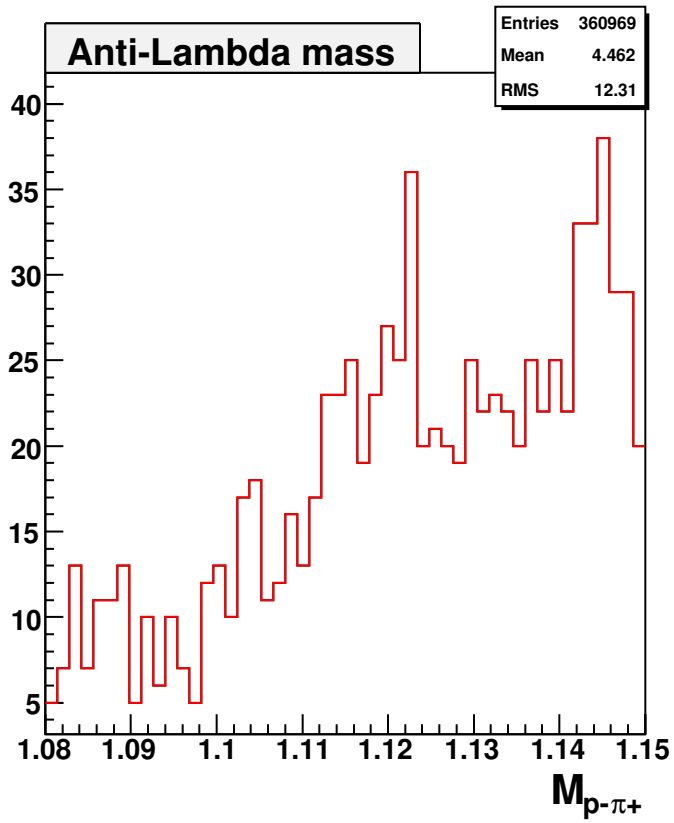


Vertices (Primary - best)

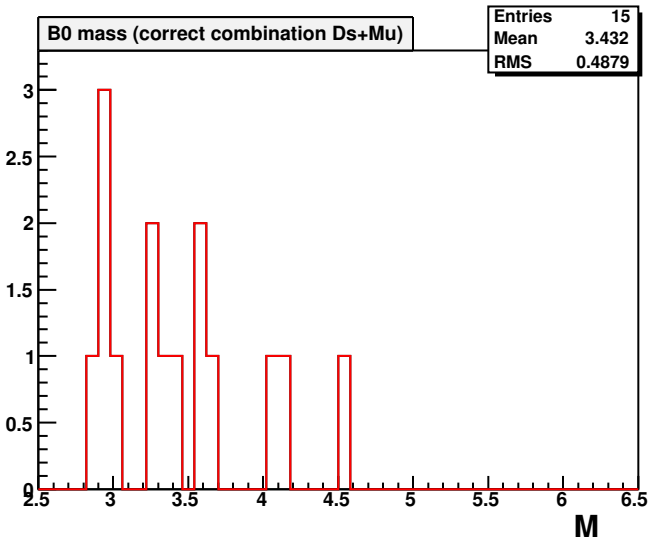

Kshort mass
Entries 360969
Mean 3.963
RMS 12.28
1200
1000
800
600
400
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
Mππ

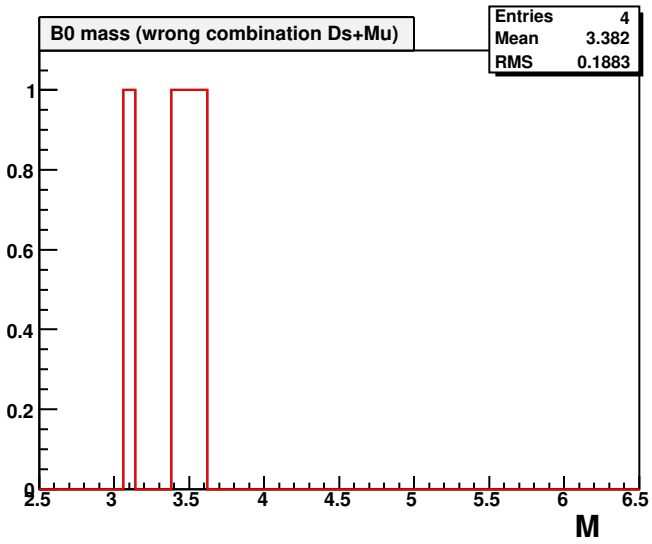

Lambda mass
Entries 360969
Mean 4.471
RMS 12.29
45
40
35
30
25
20
15
10
5
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
Mp+π-

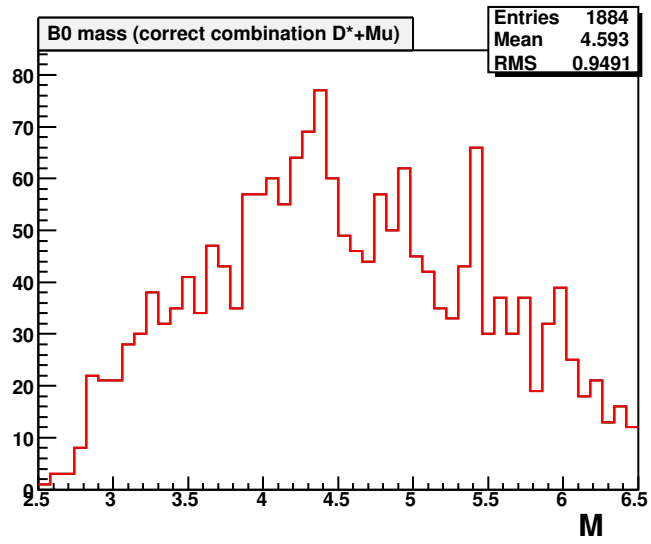

Jpsi mass
Entries 2012
Mean 7.032
RMS 8.377
70
60
50
40
30
20
10
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
Mμμ

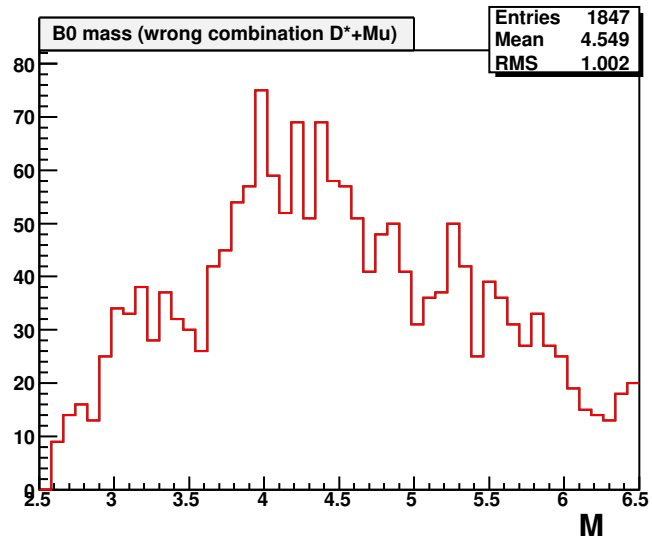

Anti-Lambda mass
Entries 360969
Mean 4.462
RMS 12.31
40
35
30
25
20
15
10
5
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
Mp-π+

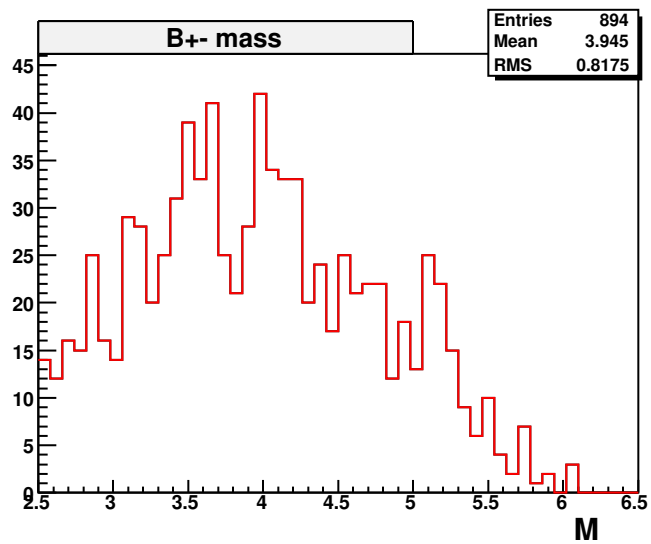
V0 (All)



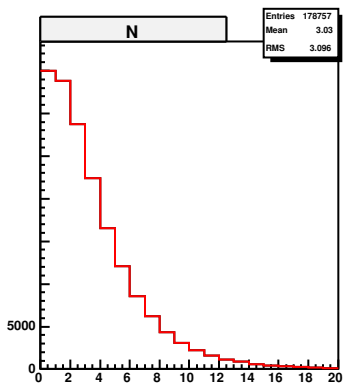


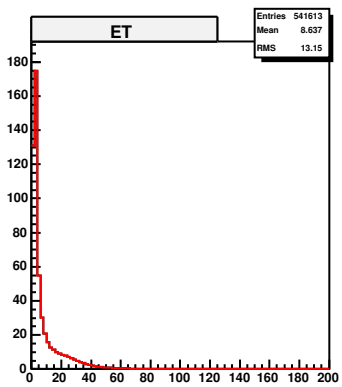


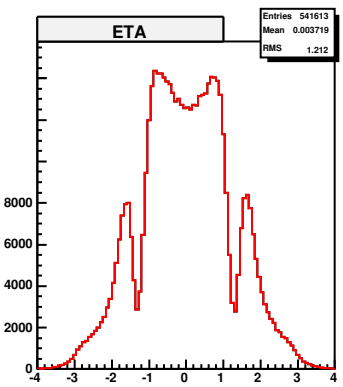


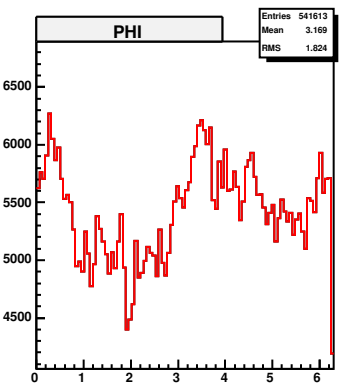


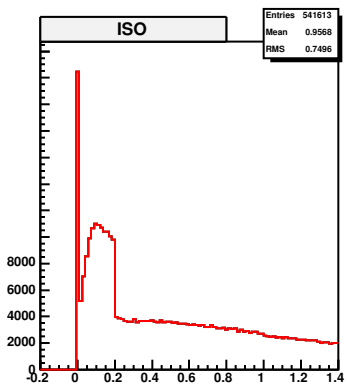
V0(B mesons) (All)

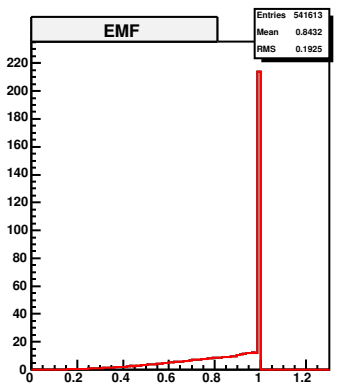


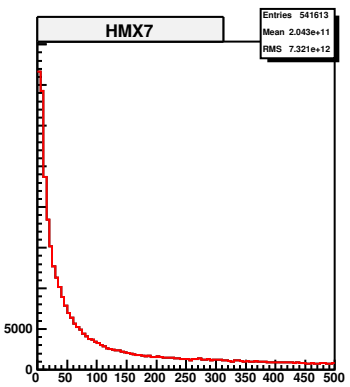


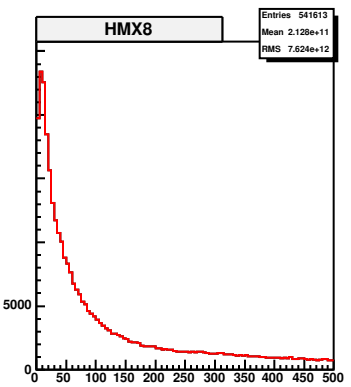


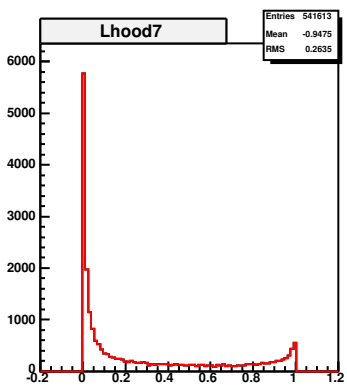


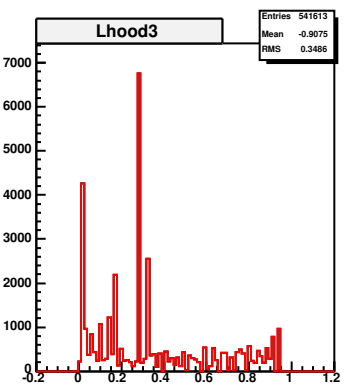


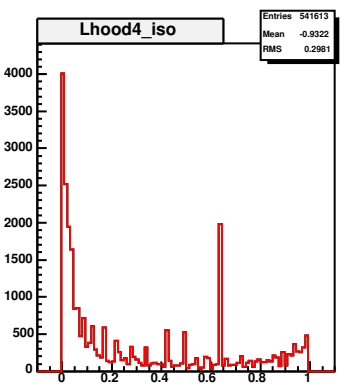


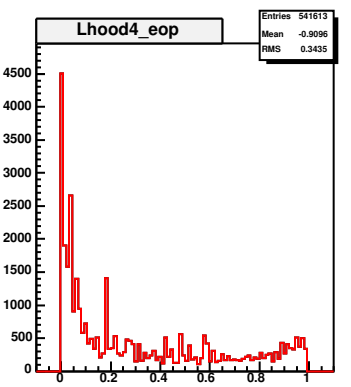


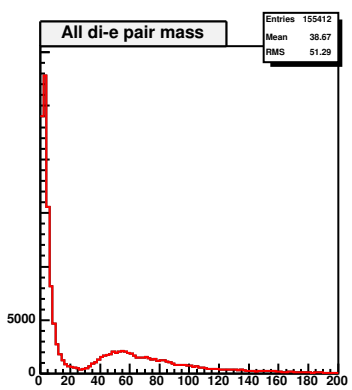


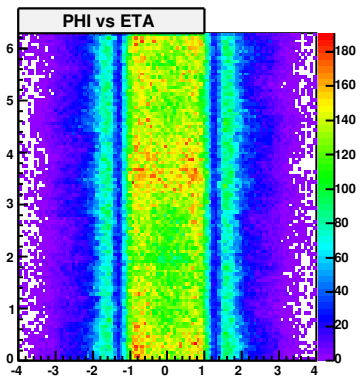


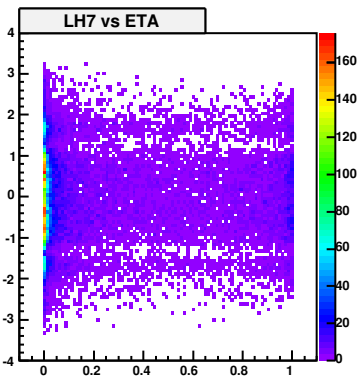


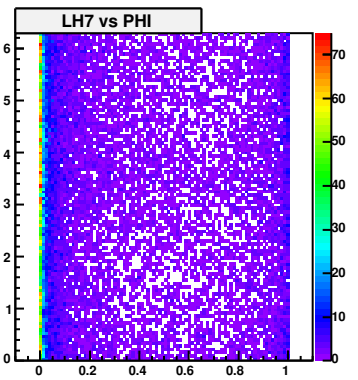




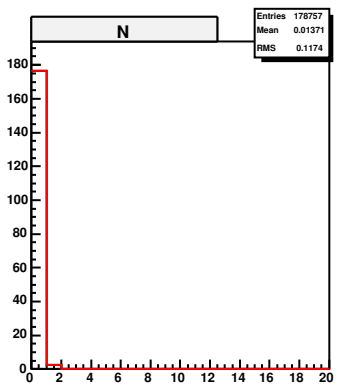


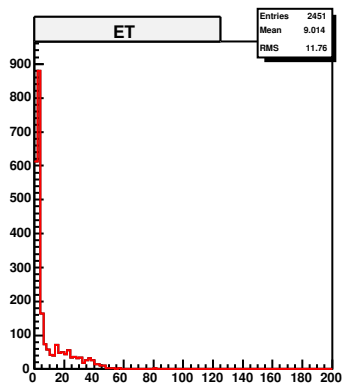


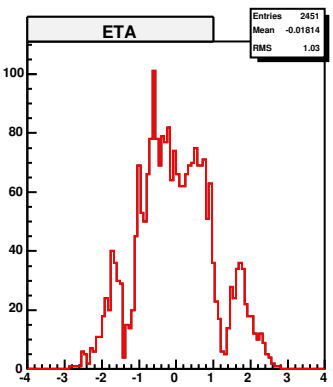


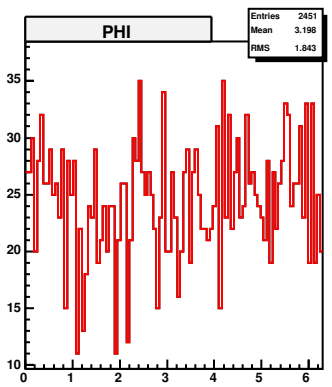


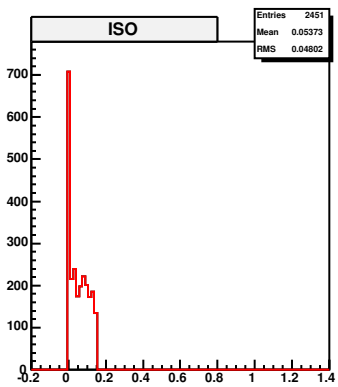
Electrons (SCONE All)

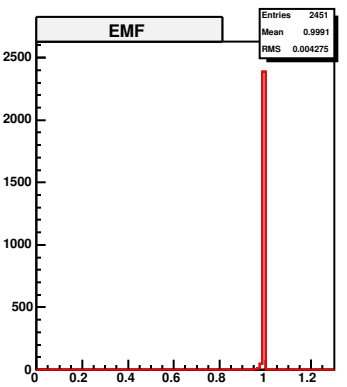


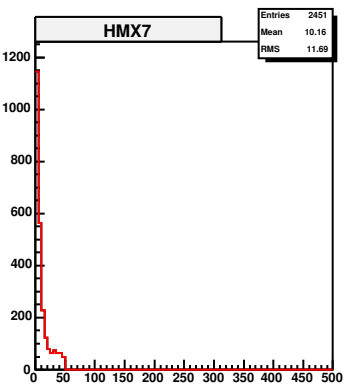


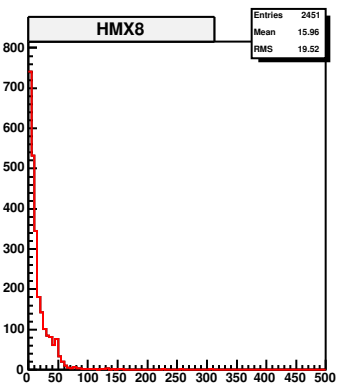


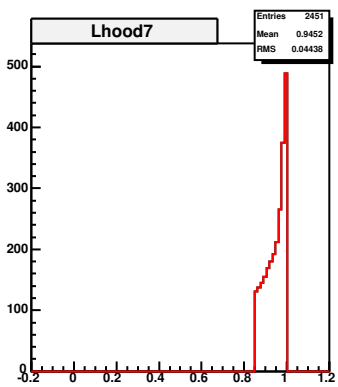


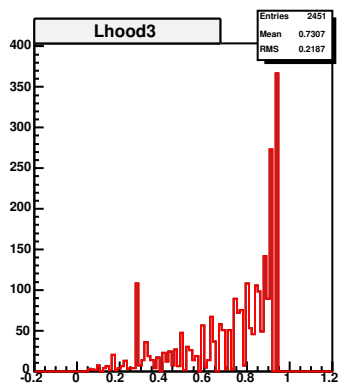


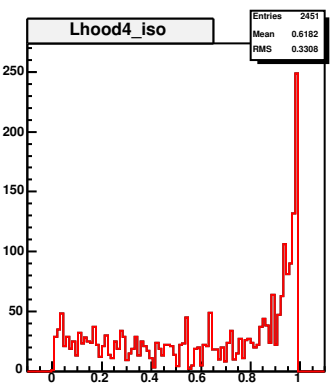


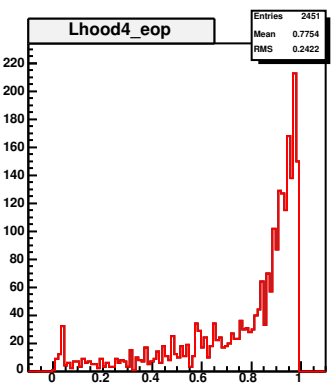


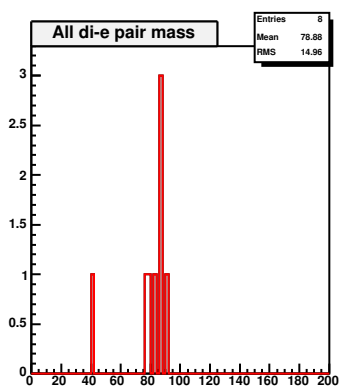


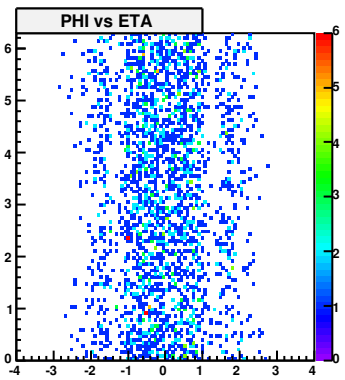


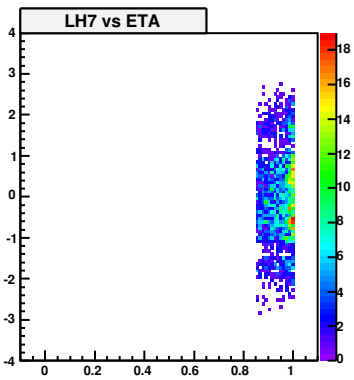


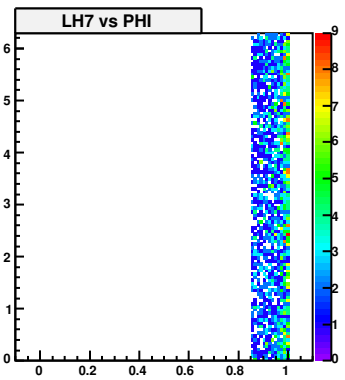




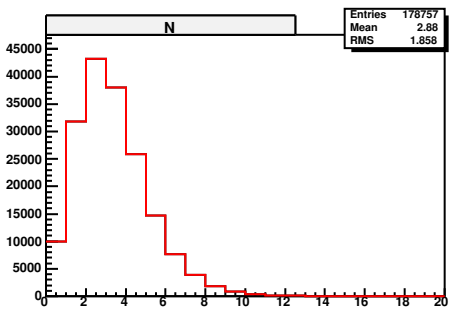


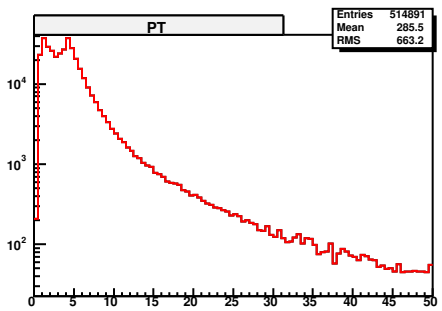


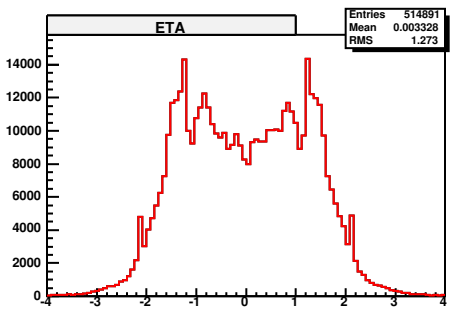


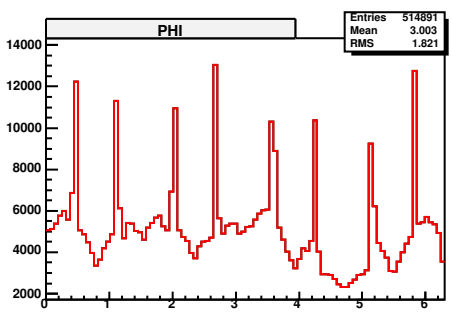


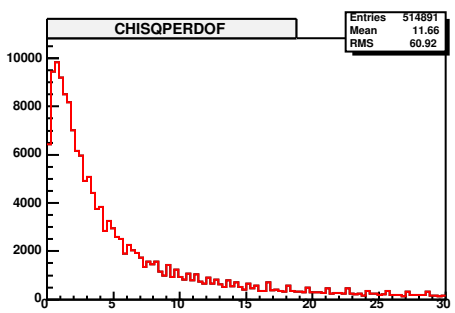
Electrons (SCONE Tight)

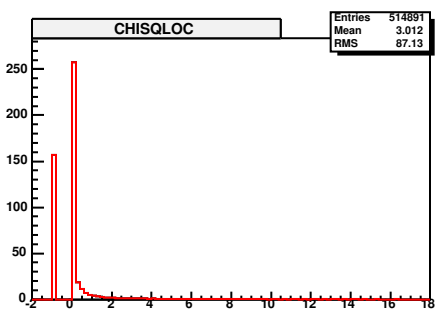

N
Entries 178757
Mean 2.88
RMS 1.858

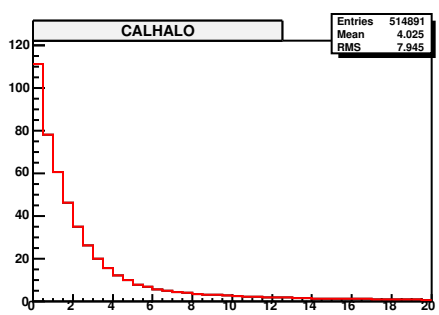

PT
Entries 514891
Mean 285.5
RMS 663.2

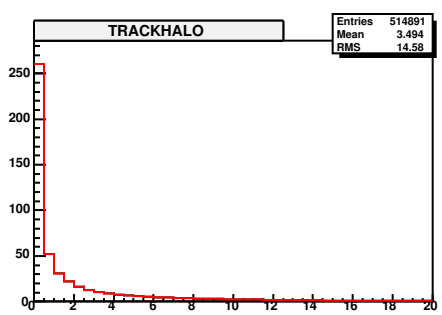

ETA
Entries 514891
Mean 0.003328
RMS 1.273

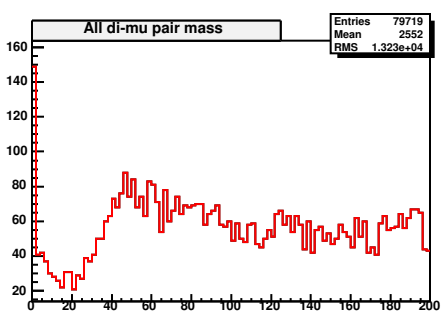

PHI
Entries 514891
Mean 3.003
RMS 1.821

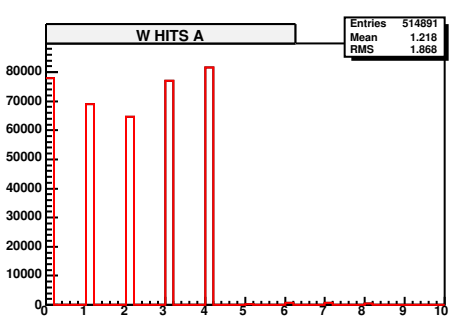

CHISQPERDOF
Entries 514891
Mean 11.66
RMS 60.92

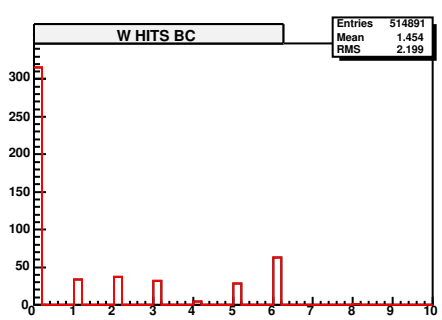

CHISQLOC
Entries 514891
Mean 3.012
RMS 87.13

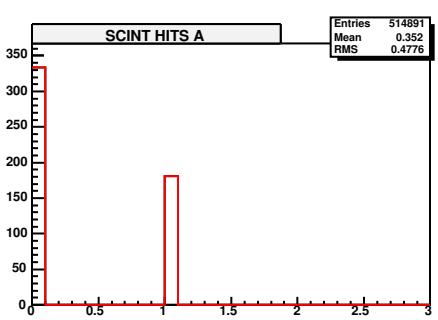

CALHALO
Entries 514891
Mean 4.025
RMS 7.945

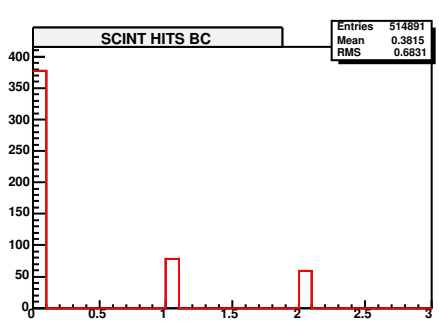

TRACKHALO
Entries 514891
Mean 3.494
RMS 14.58


All di-mu pair mass
Entries 79719
Mean 2552
RMS 1.323e+04

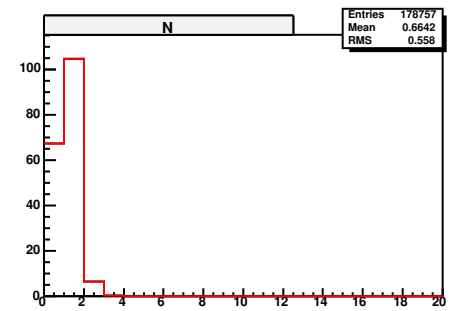

W HITS A
Entries 514891
Mean 1.218
RMS 1.868

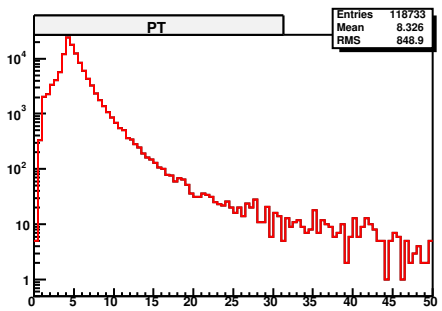

W HITS BC
Entries 514891
Mean 1.454
RMS 2.199

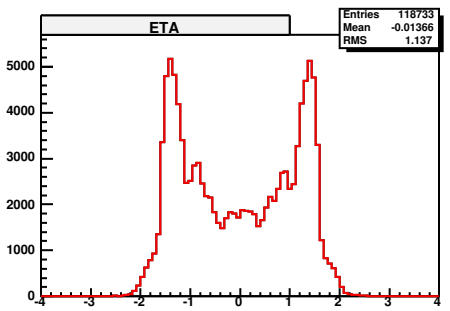

SCINT HITS A
Entries 514891
Mean 0.352
RMS 0.4776

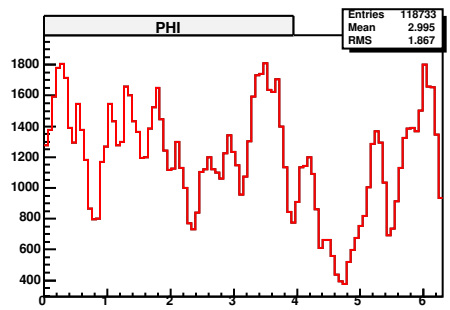

SCINT HITS BC
Entries 514891
Mean 0.3815
RMS 0.6831

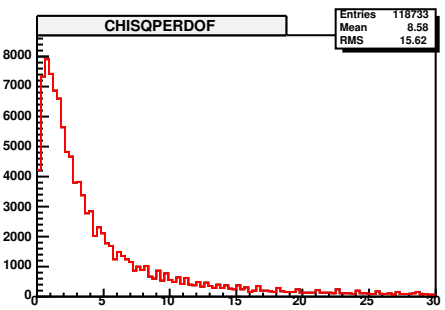
Muons (All)

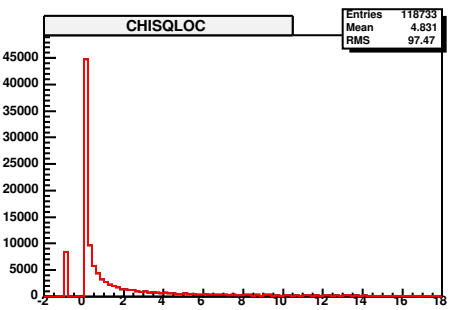


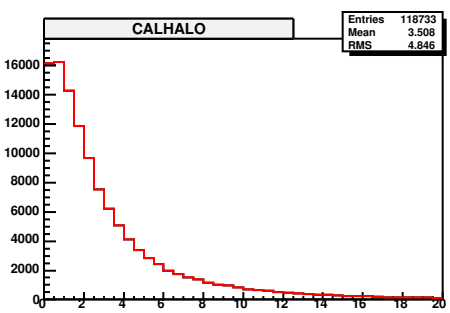


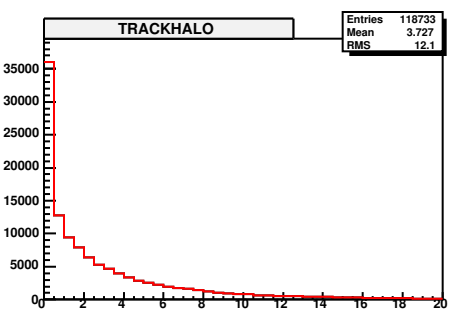


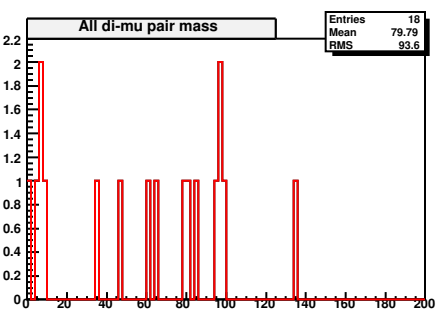


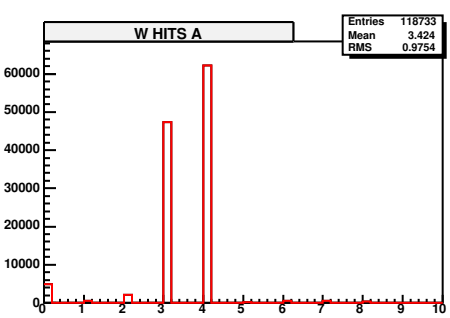


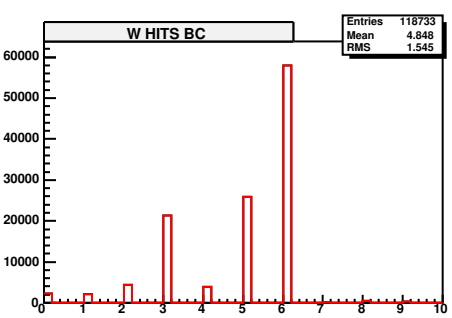


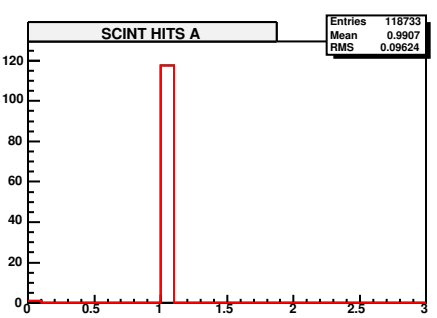


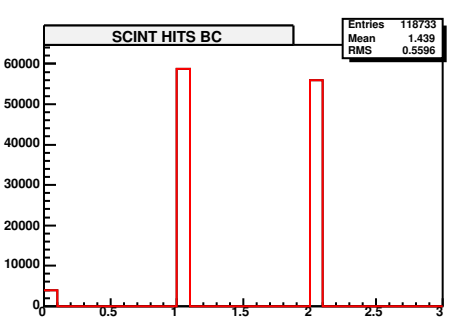




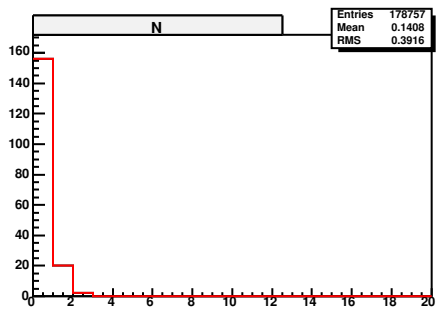


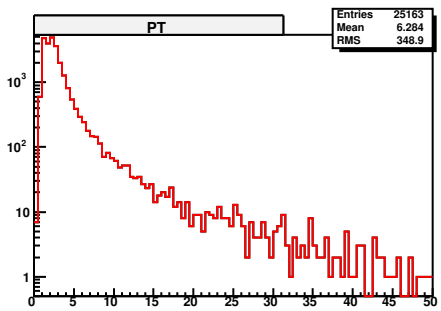


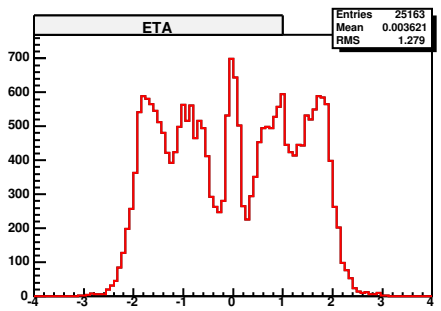


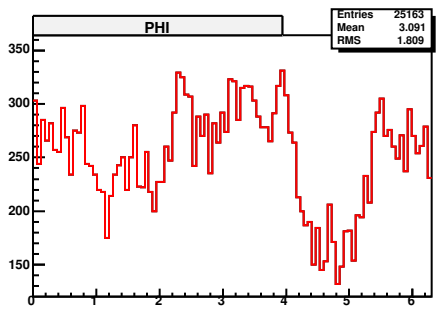


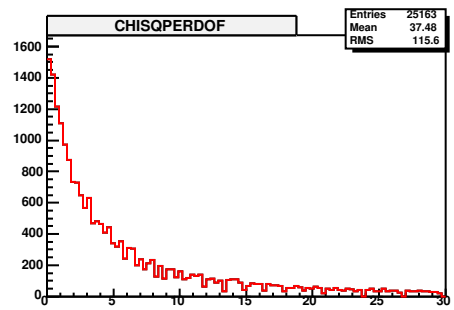
Muons (Matched)

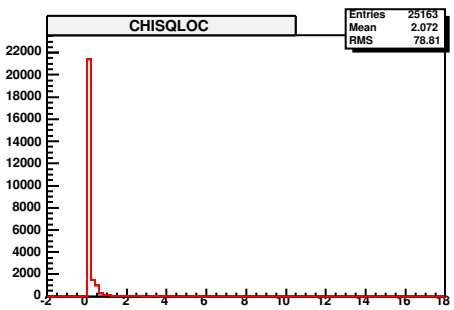

N
Entries 178757
Mean 0.1408
RMS 0.3916

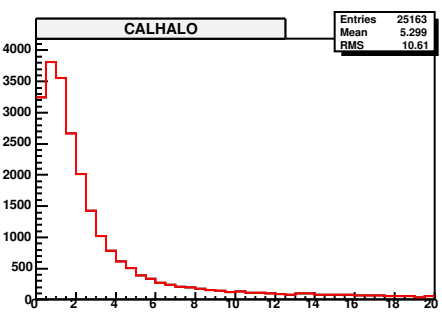

PT
Entries 25163
Mean 6.284
RMS 348.9

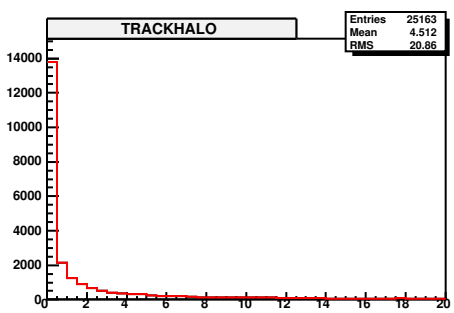

ETA
Entries 25163
Mean 0.003621
RMS 1.279

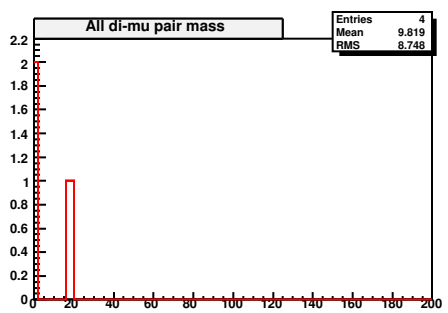

PHI
Entries 25163
Mean 3.091
RMS 1.809

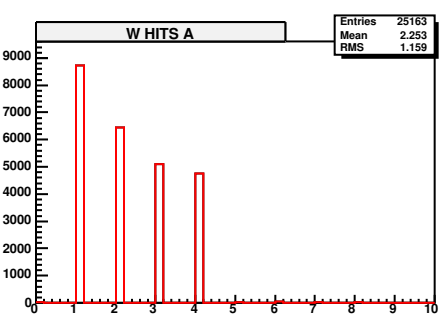

CHISQPERDOF
Entries 25163
Mean 37.48
RMS 115.6

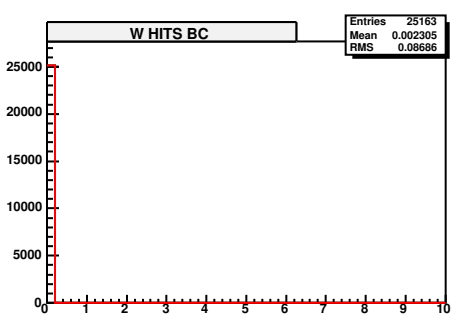

CHISQLOC
Entries 25163
Mean 2.072
RMS 78.81

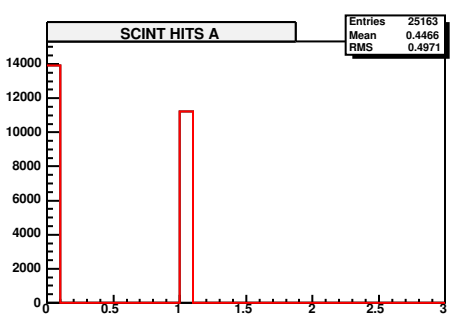

CALHALO
Entries 25163
Mean 5.299
RMS 10.61

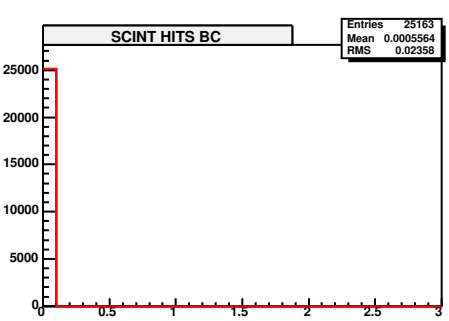

TRACKHALO
Entries 25163
Mean 4.512
RMS 20.86


All di-mu pair mass
Entries 4
Mean 9.819
RMS 8.748

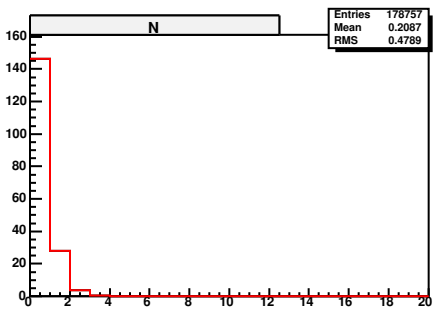

W HITS A
Entries 25163
Mean 2.253
RMS 1.159

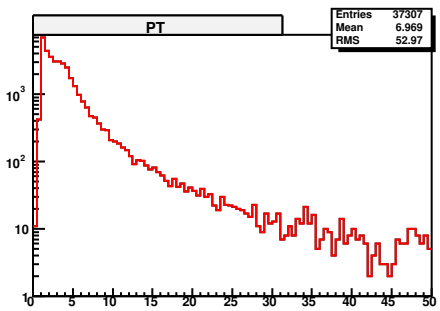

W HITS BC
Entries 25163
Mean 0.002305
RMS 0.08686

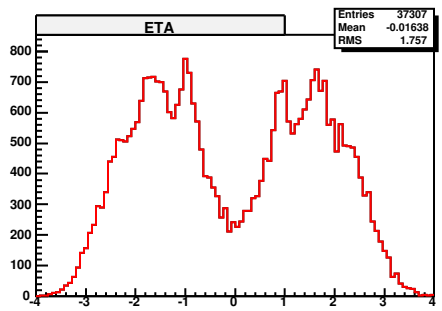

SCINT HITS A
Entries 25163
Mean 0.4466
RMS 0.4971

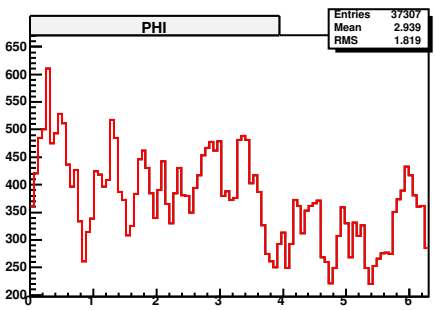

SCINT HITS BC
Entries 25163
Mean 0.0005564
RMS 0.02358

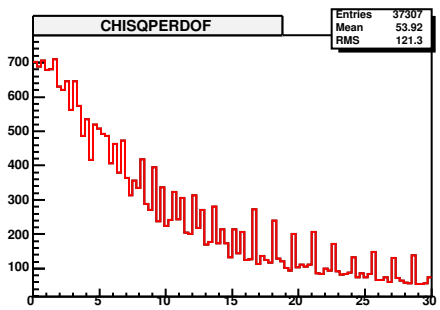
Muons (Astub)

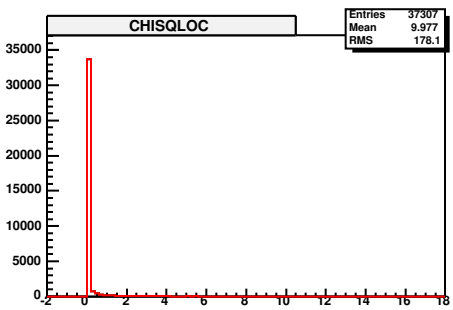


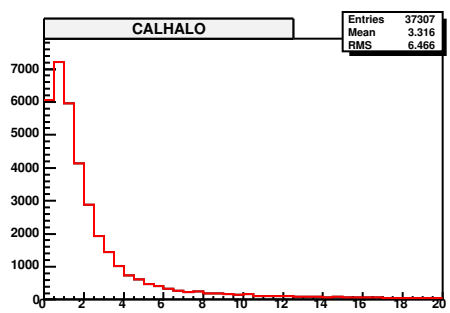


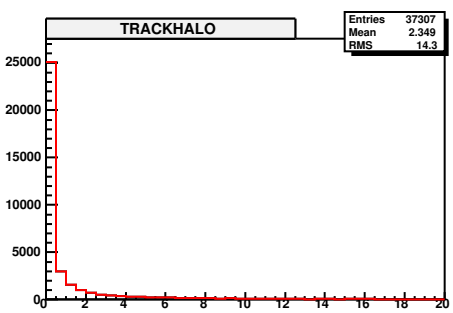


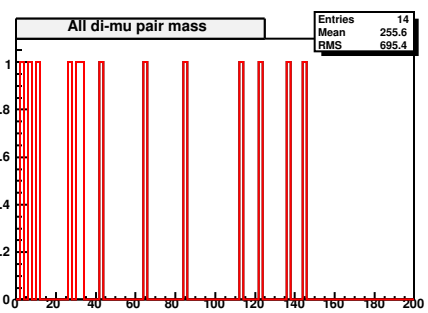


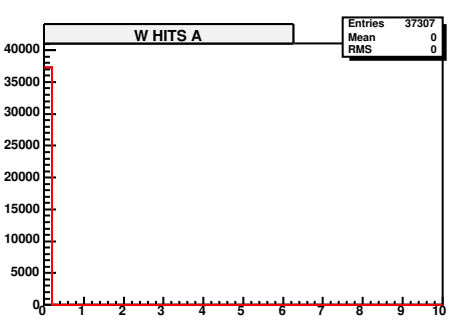


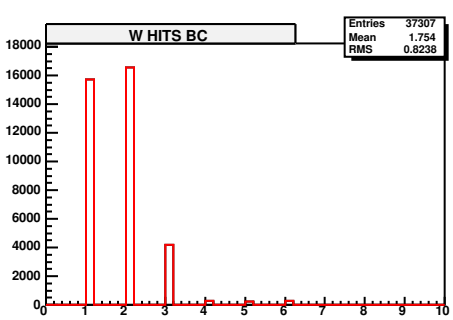


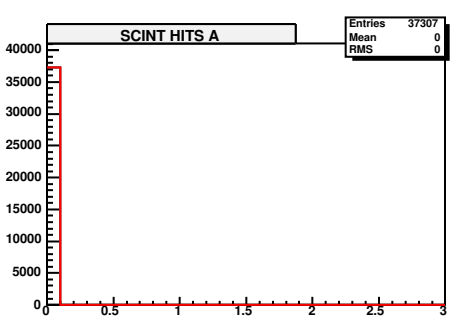


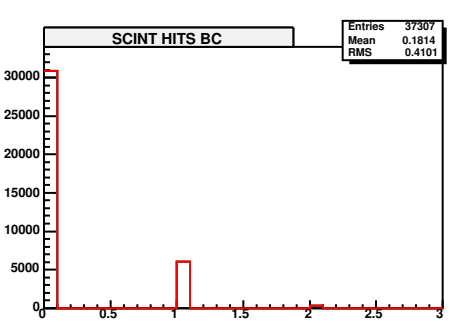




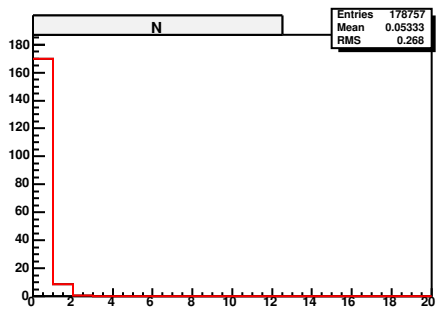


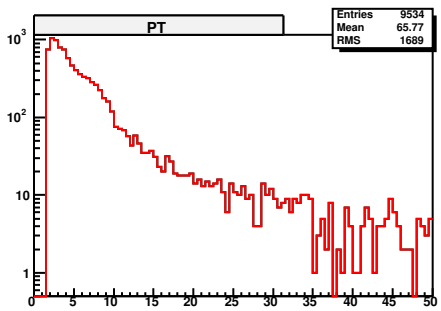


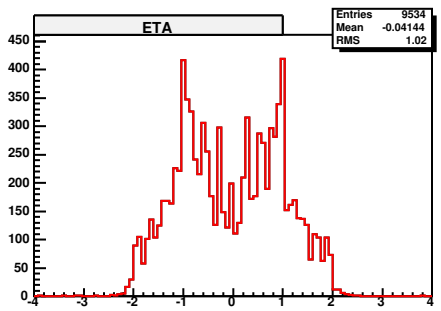


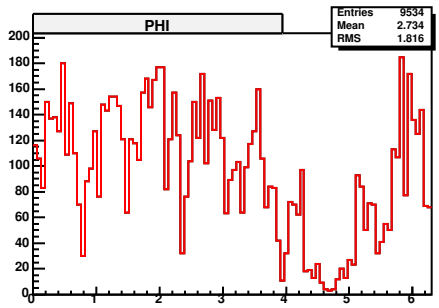


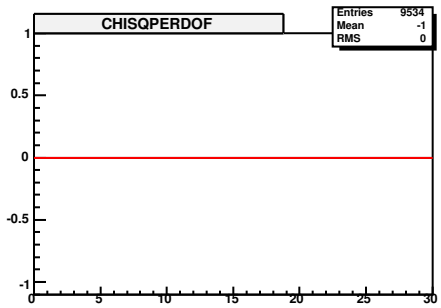
Muons (BCstub)

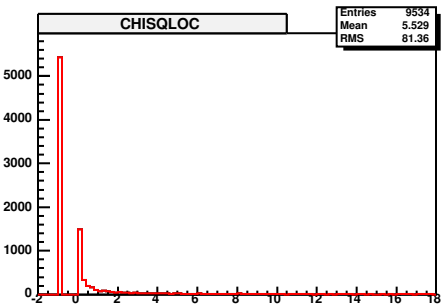


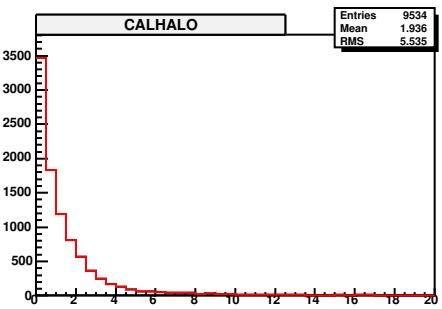


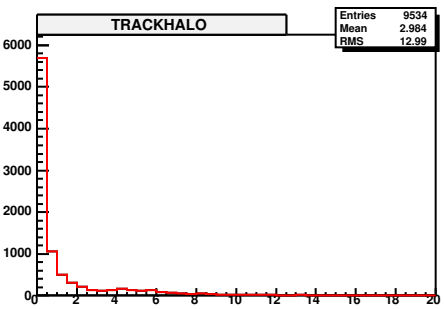


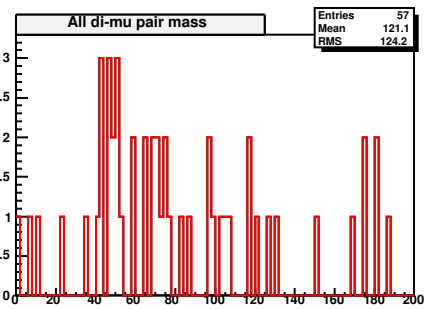


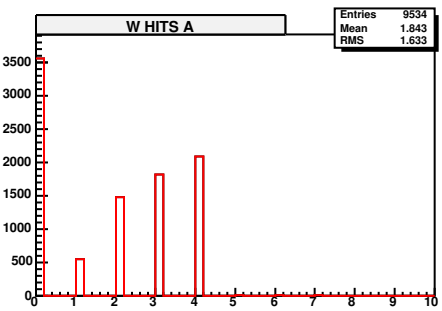


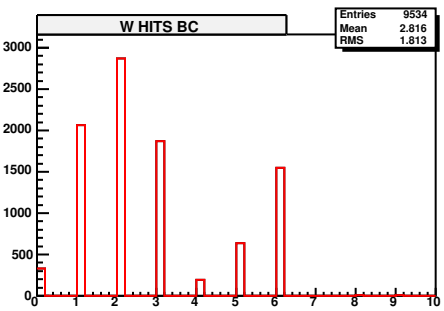


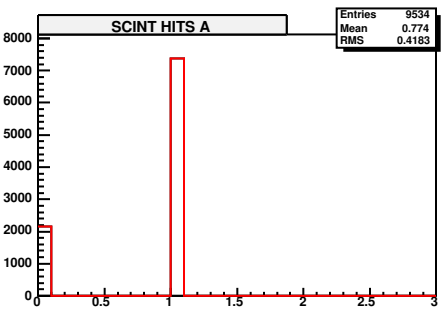


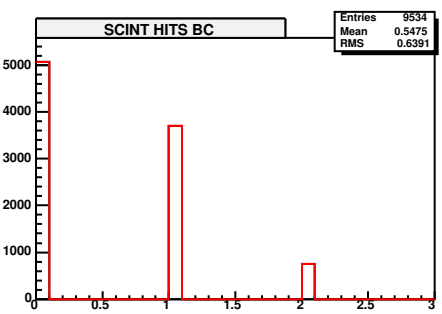




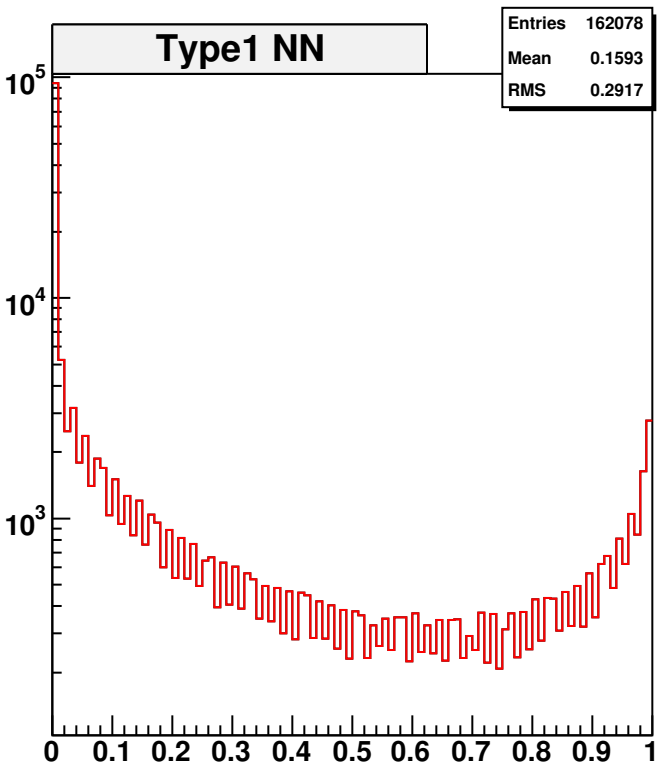


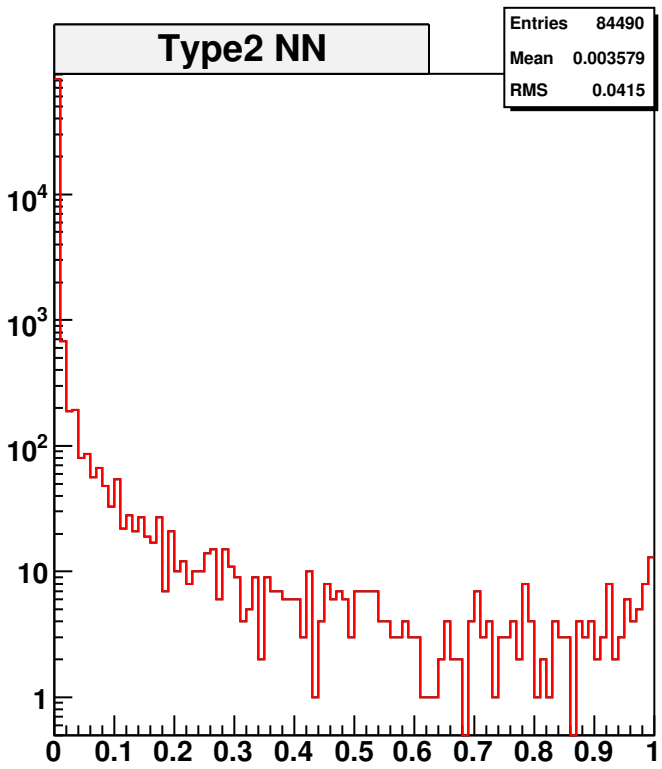


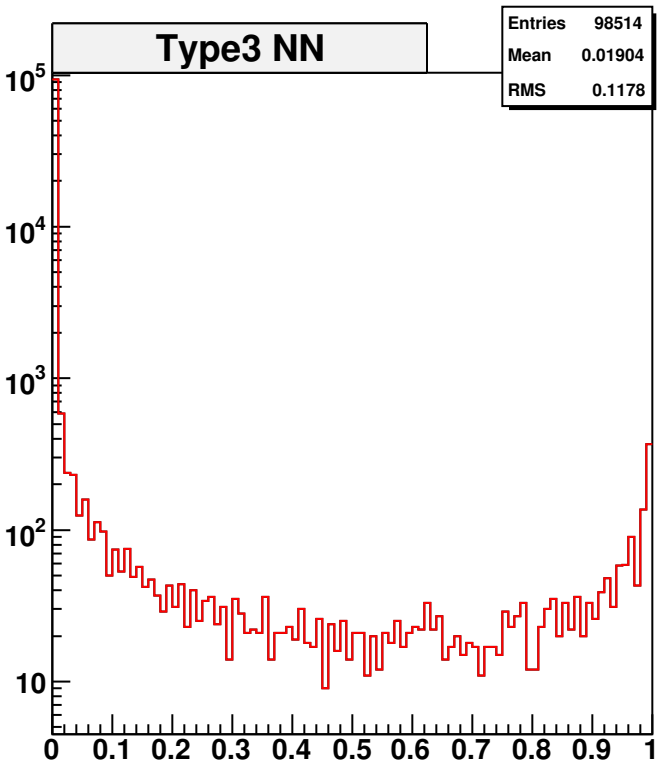


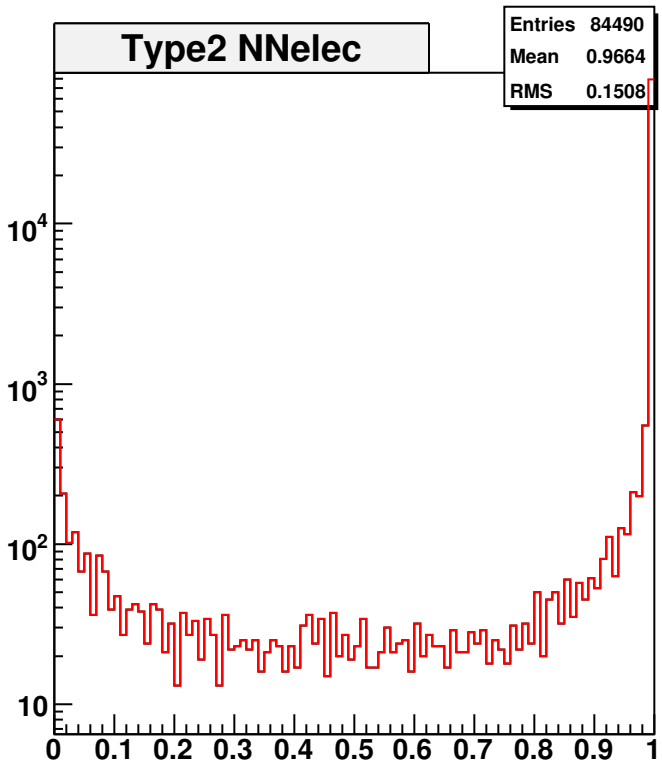


Muons (Unmatched)

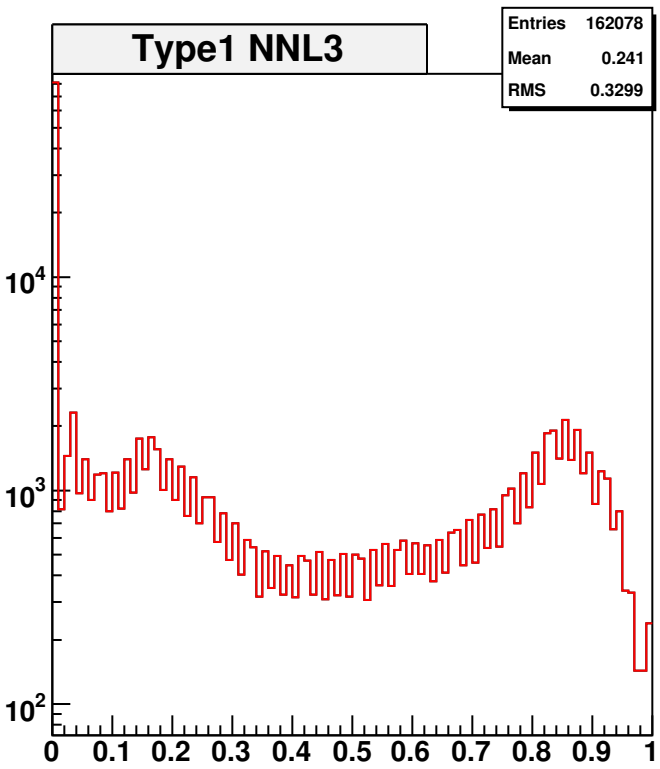


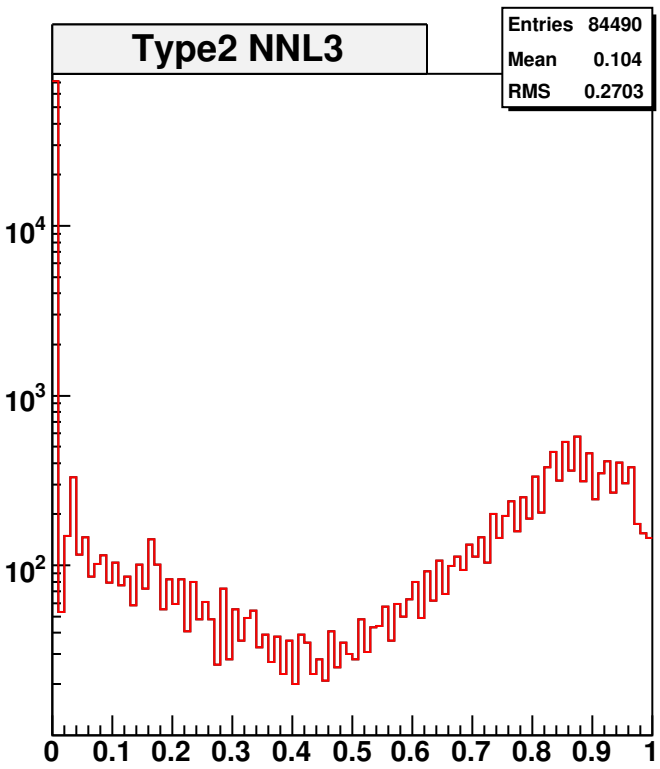


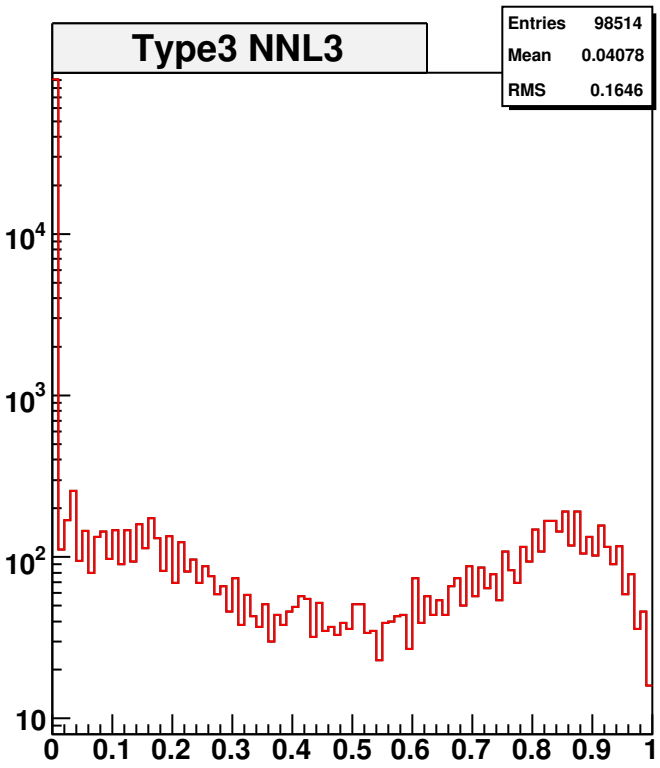


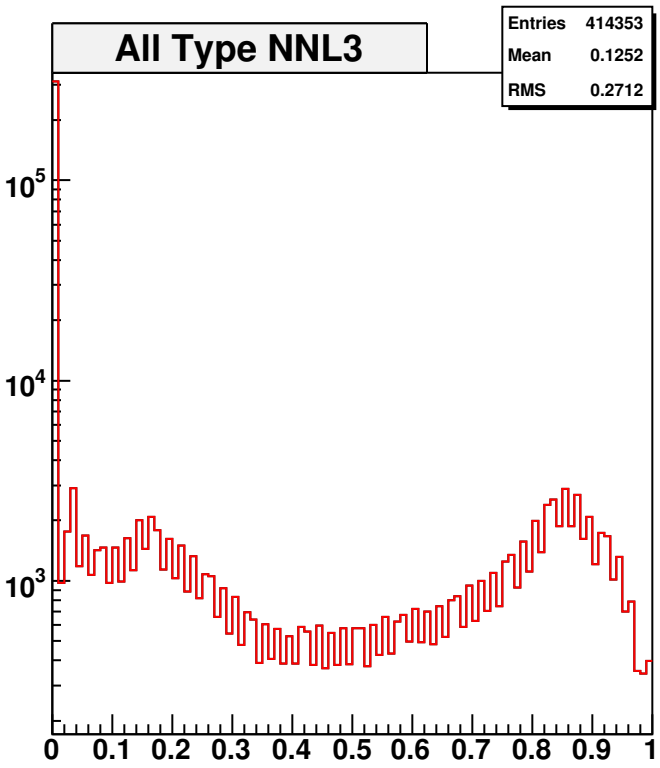


Taus NN (TAU All)

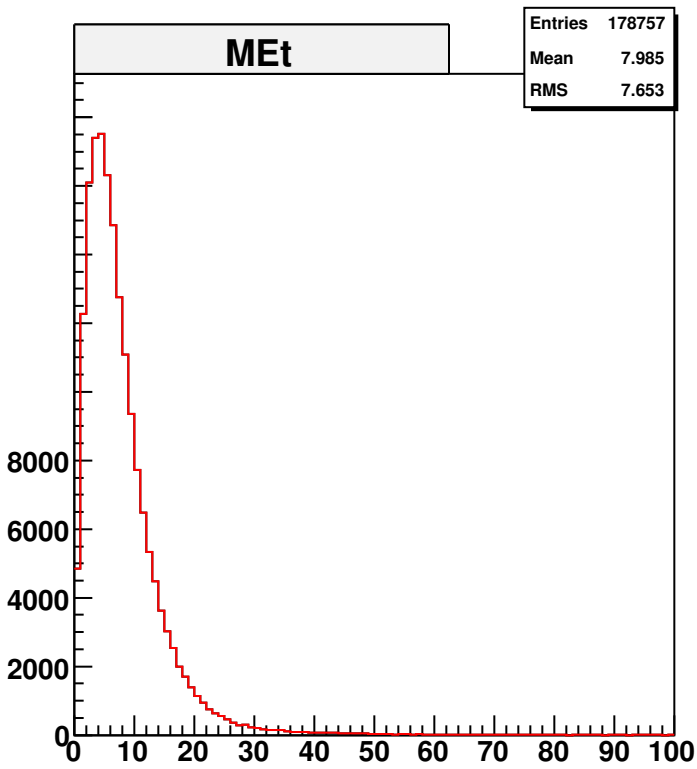


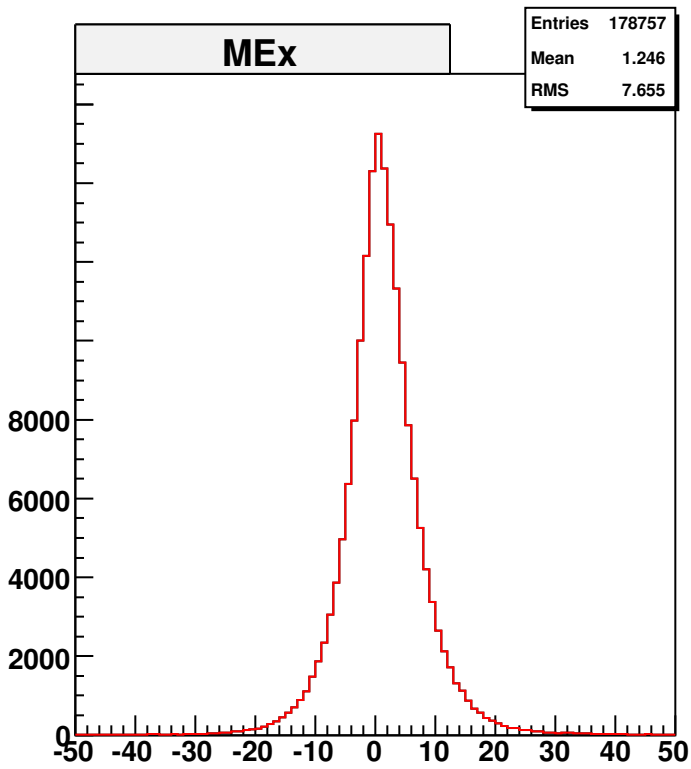


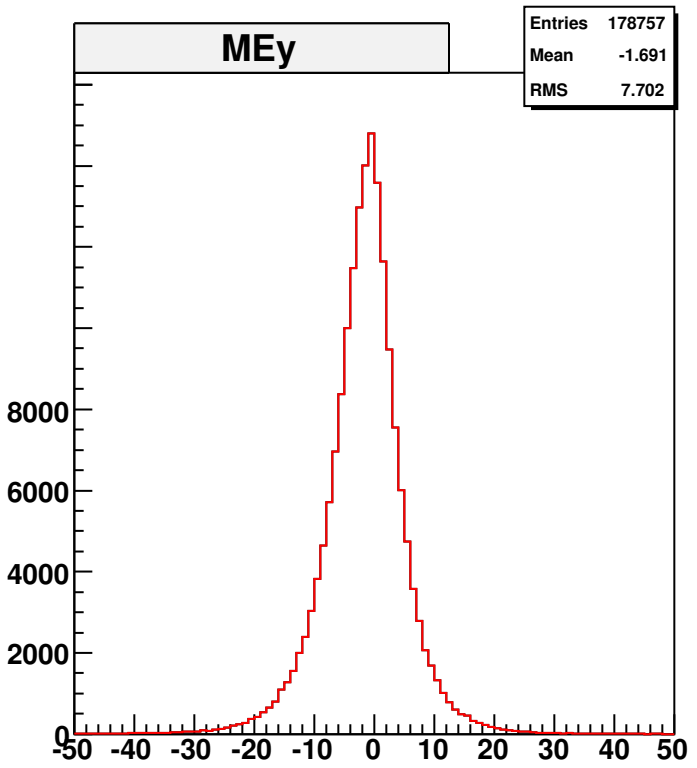




Taus NNL3 (TAU All)


MEt
Entries 178757
Mean 7.985
RMS 7.653
8000
6000
4000
2000
0
0 10 20 30 40 50 60 70 80 90 100


MEx
Entries 178757
Mean 1.246
RMS 7.655
8000
6000
4000
2000
0
-50 -40 -30 -20 -10 0 10 20 30 40 50


MEy
Entries 178757
Mean -1.691
RMS 7.702
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6000
4000
2000
0
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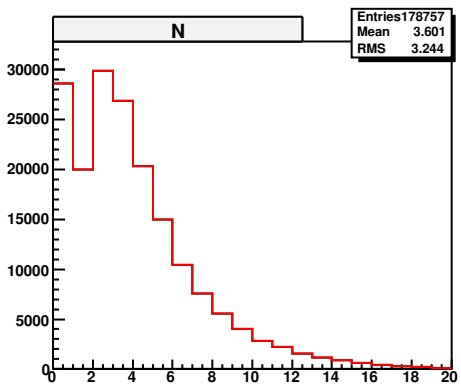
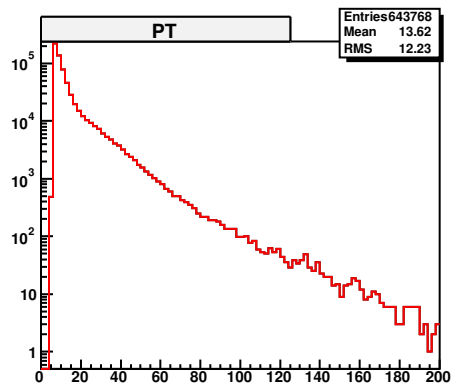
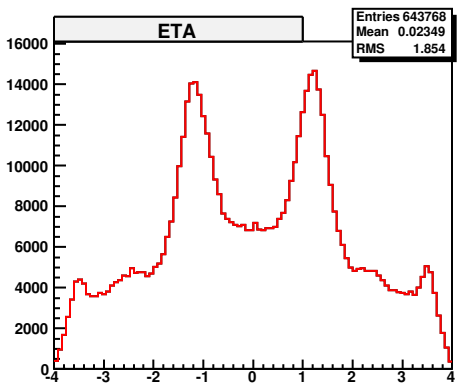
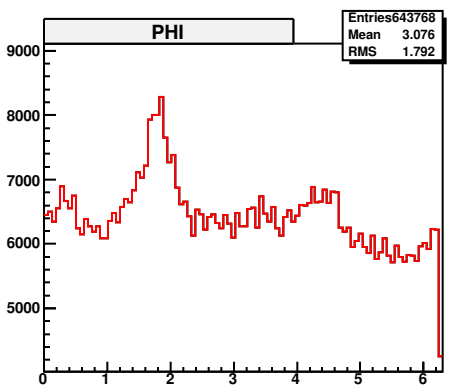
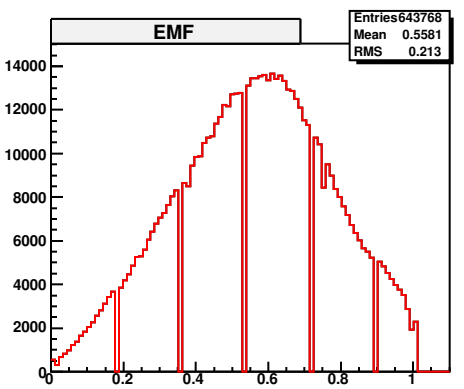
Met (No cuts)

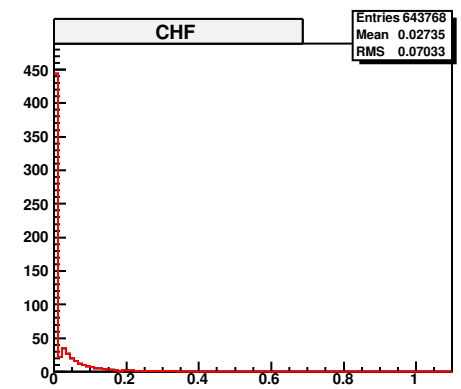


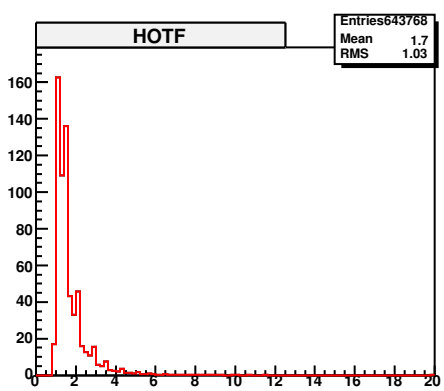


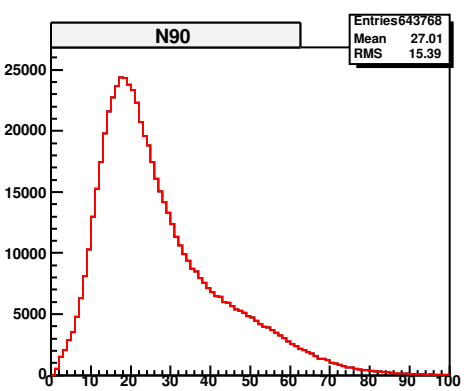


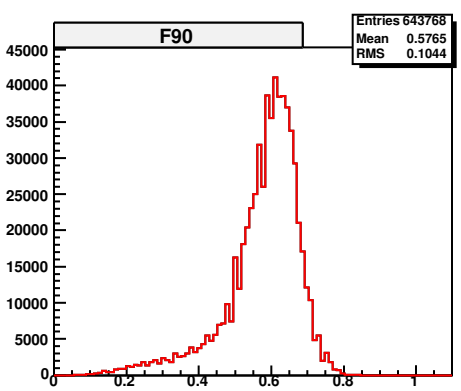


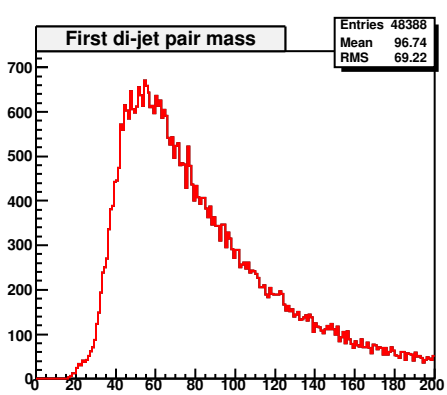


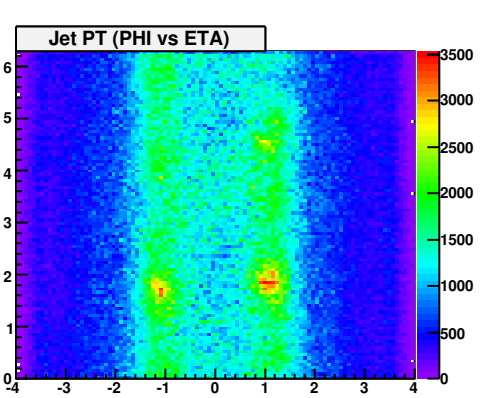




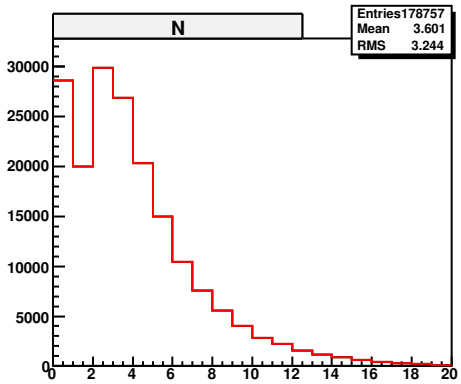


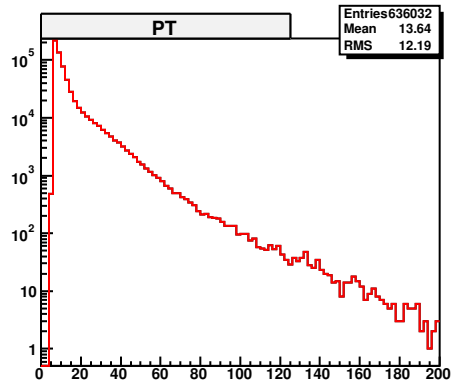


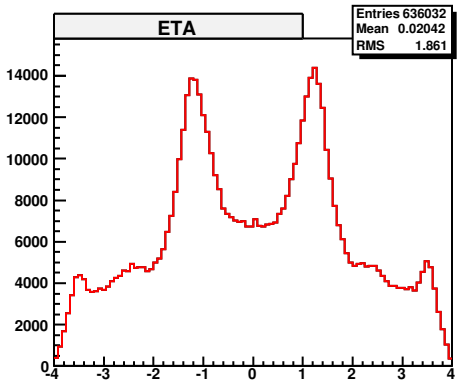


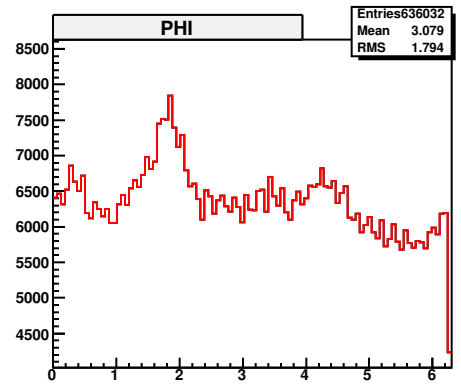


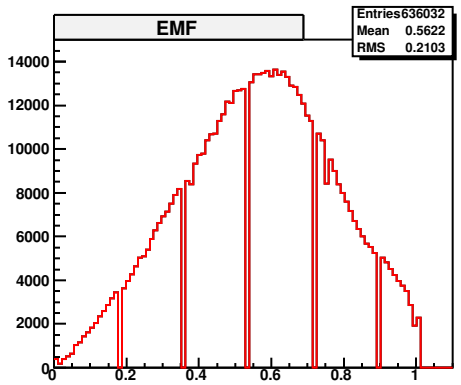
Jets (Cone R 0.7 (no cuts))

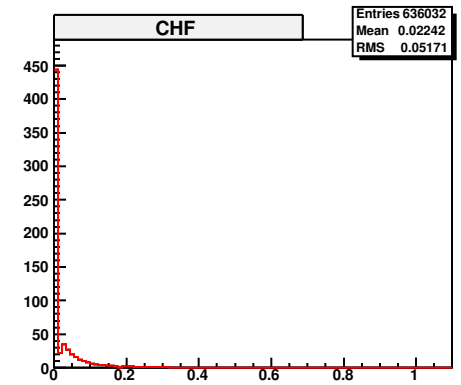


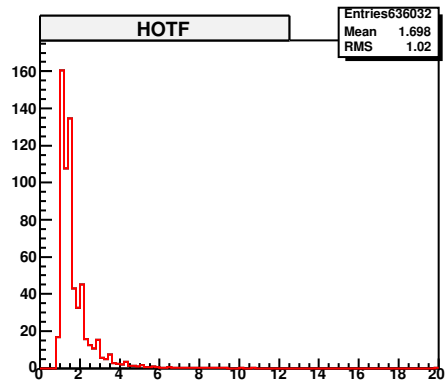


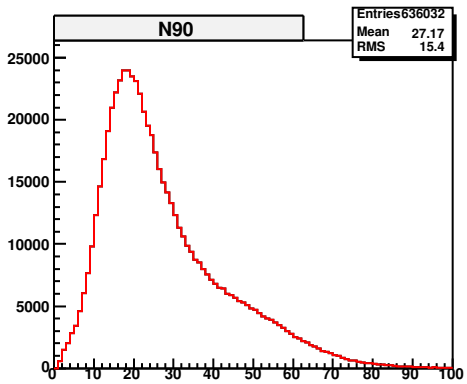


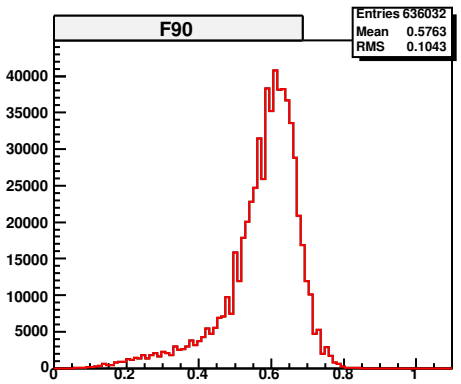


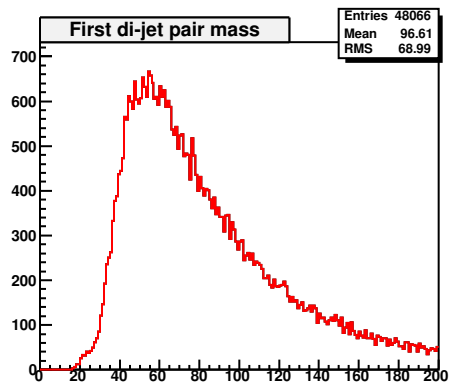


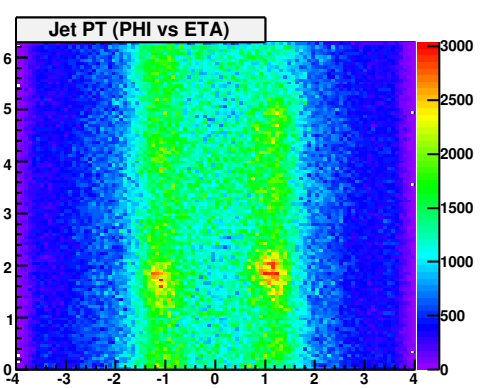




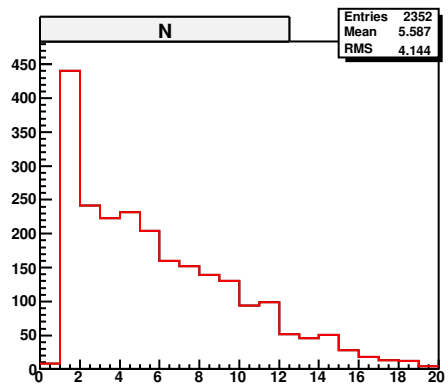


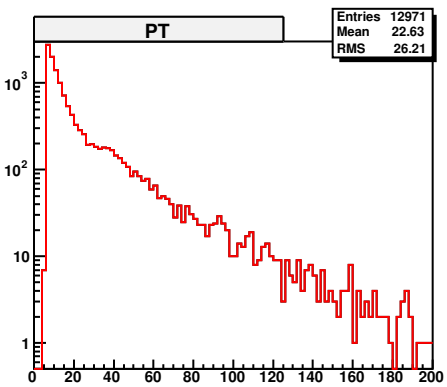


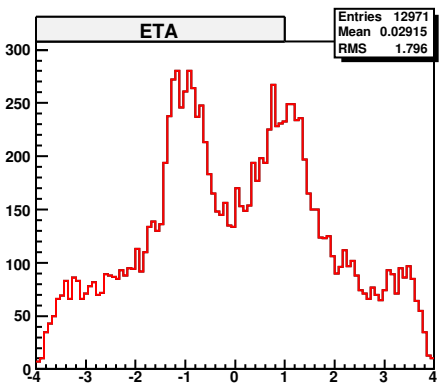


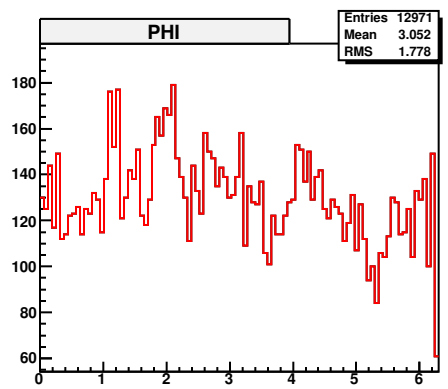


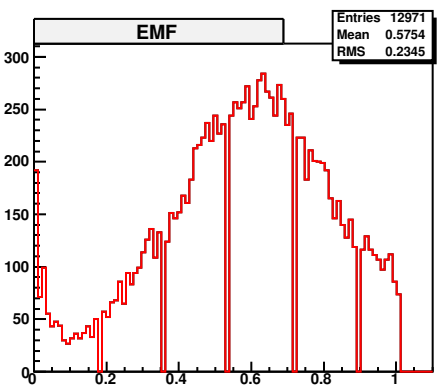
Jets (Cone R 0.7 (standard cuts))

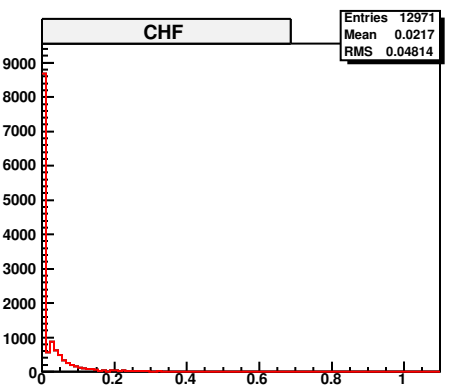


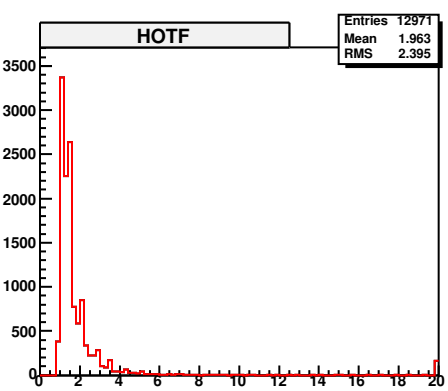


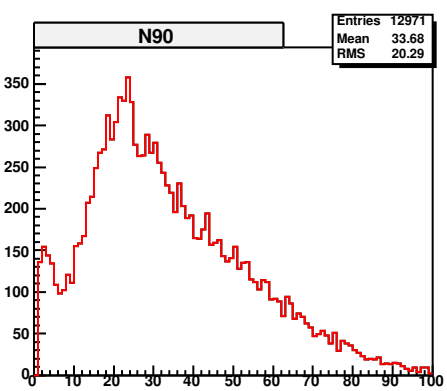


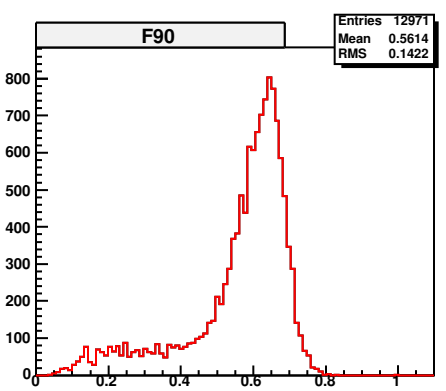


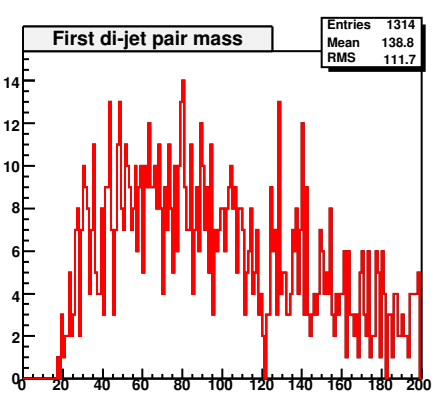


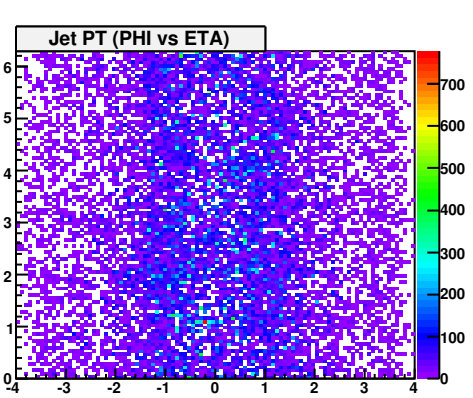




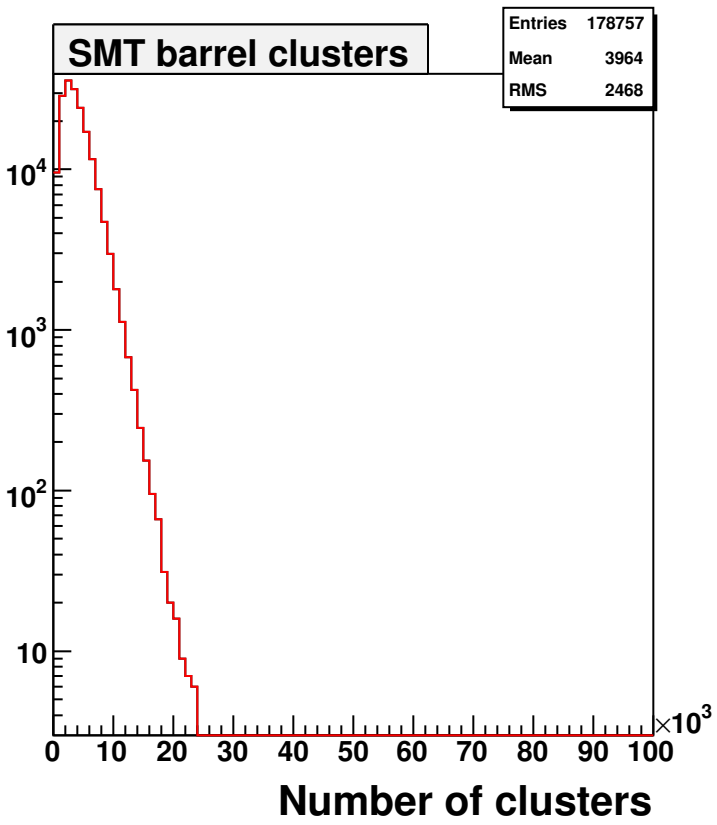


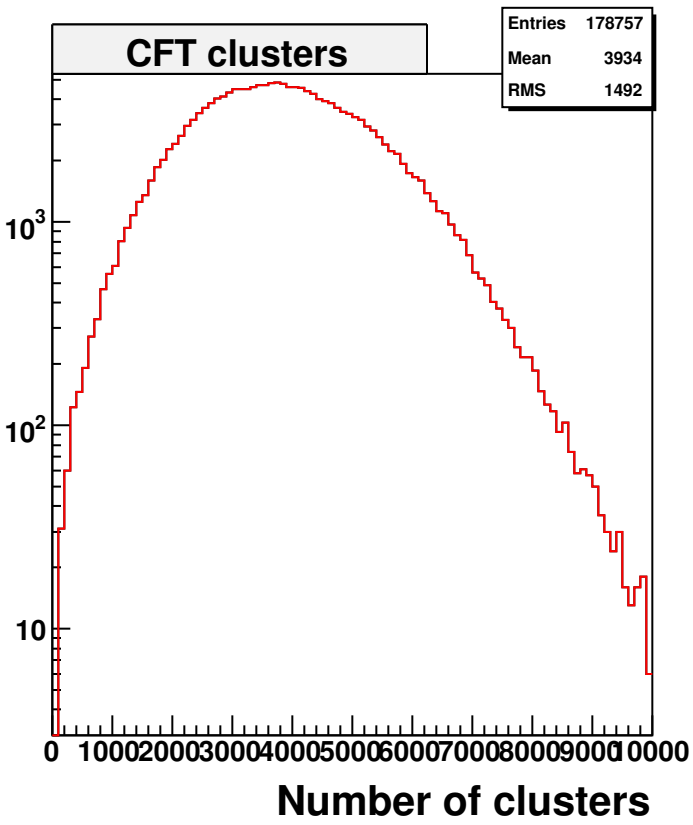


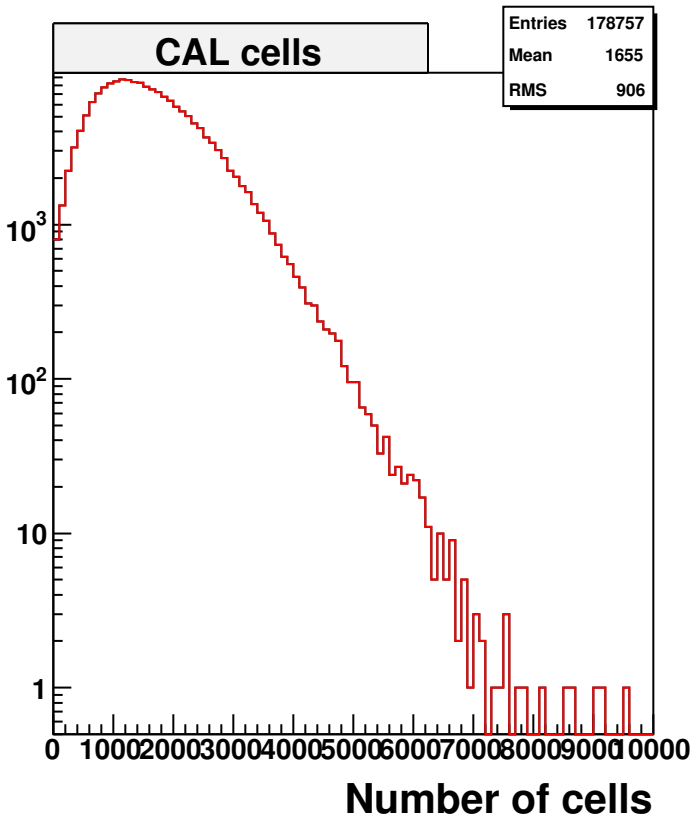


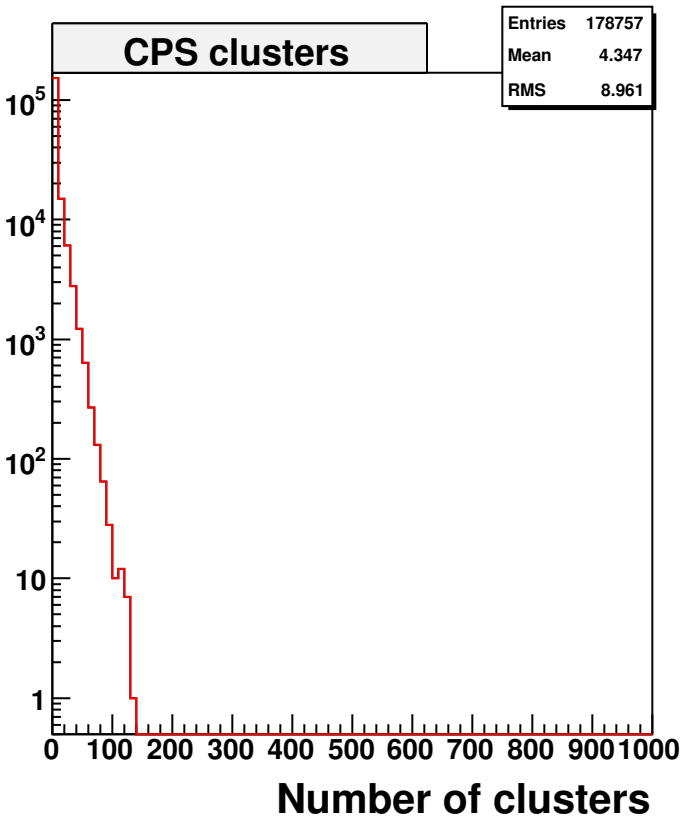


Jets (Cone R 0.7 (standard cuts, MET>30))

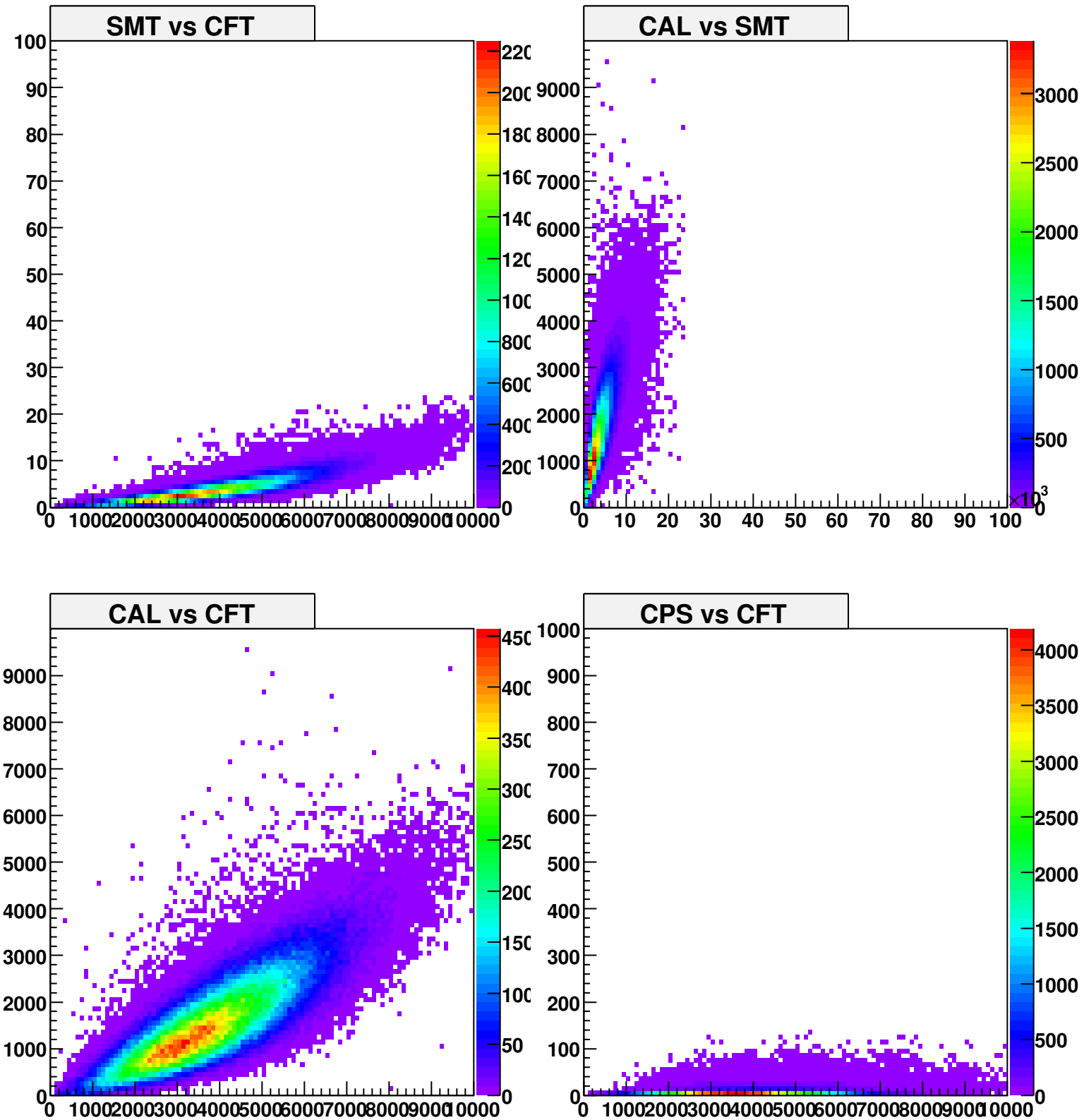


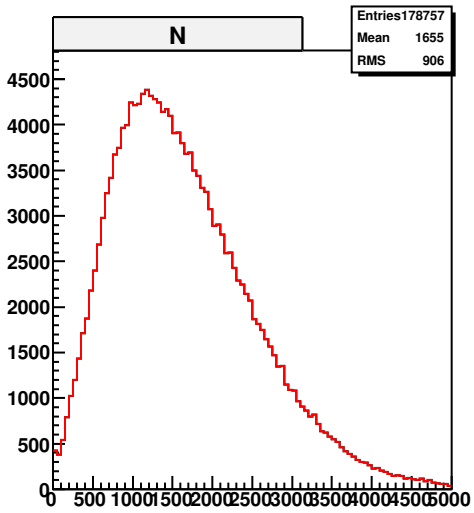


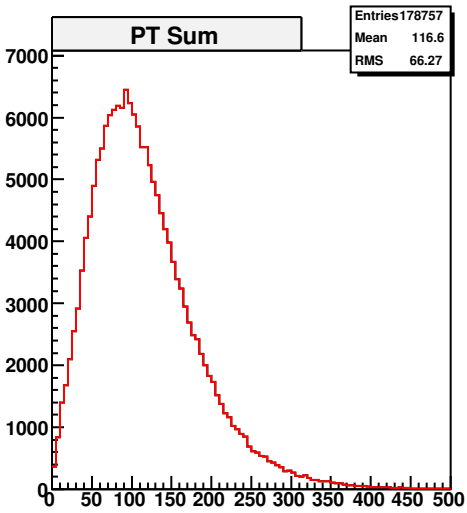


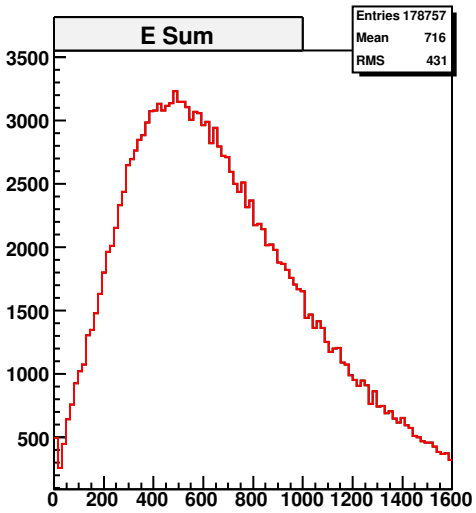


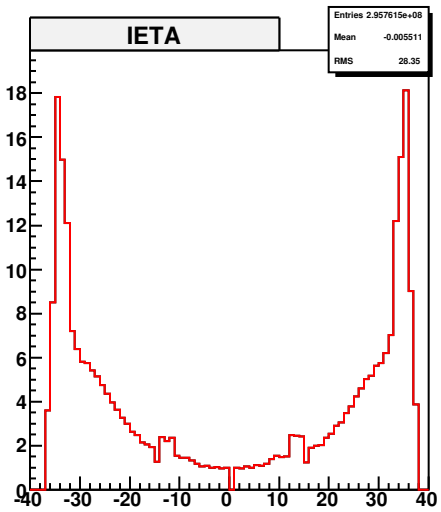
Detector Occupancy (Detector)

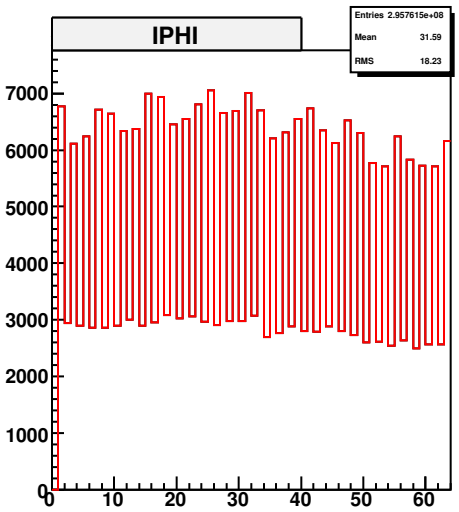

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

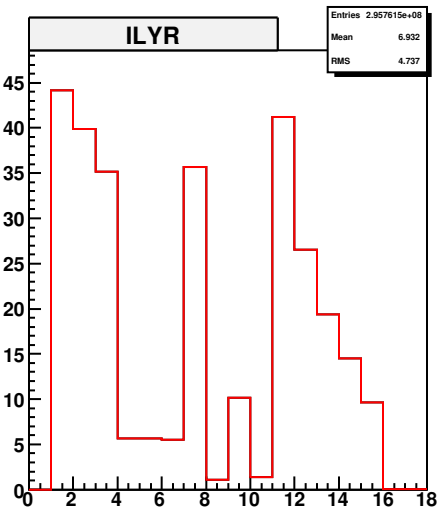


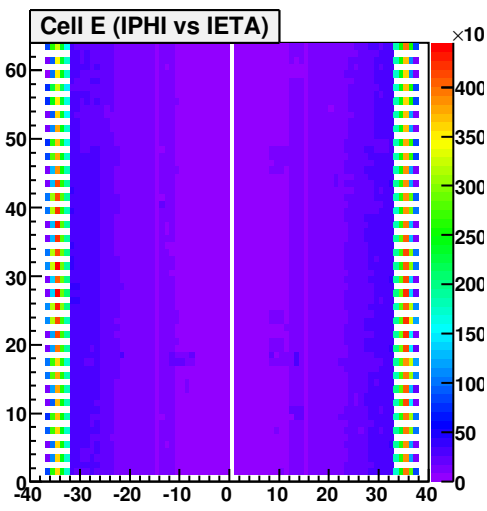


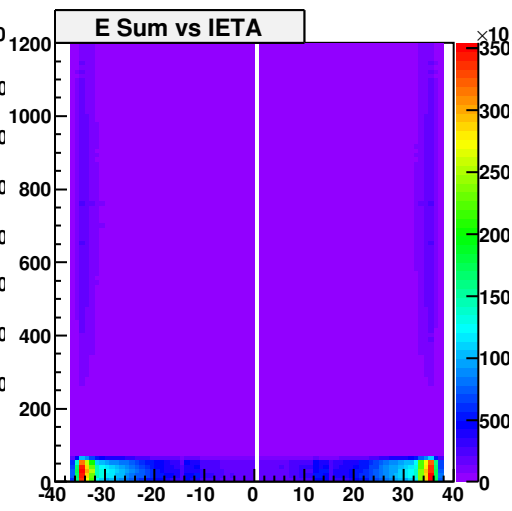


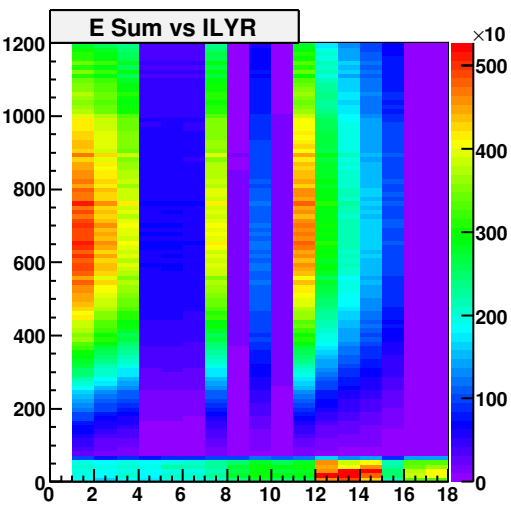




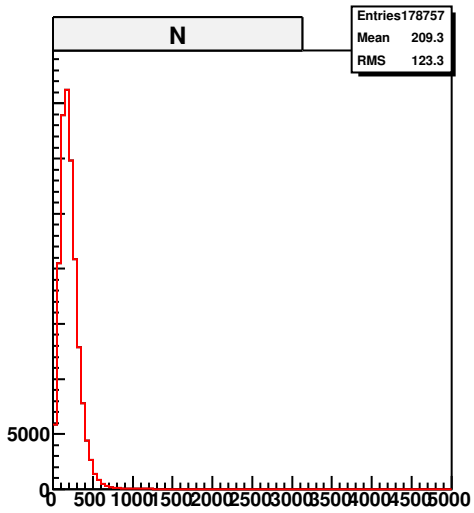


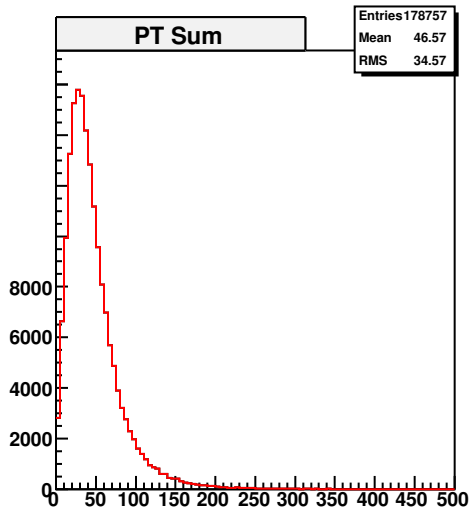


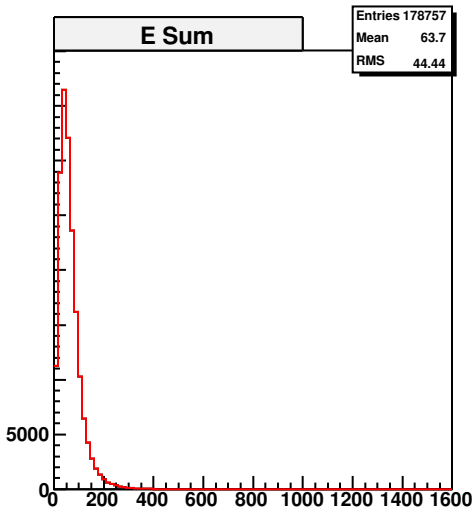


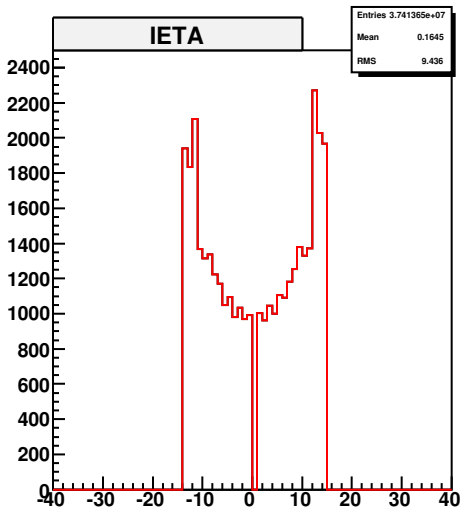


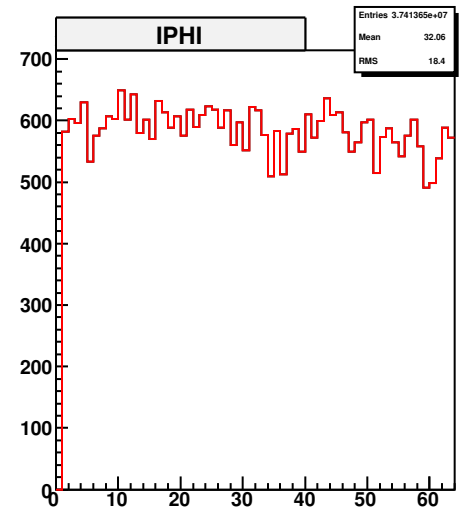
Calorimeter (All cells)

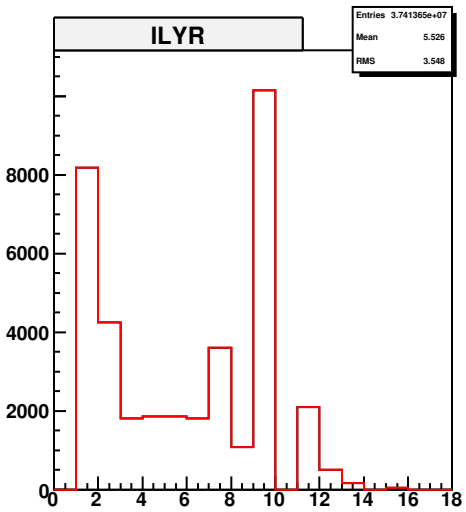


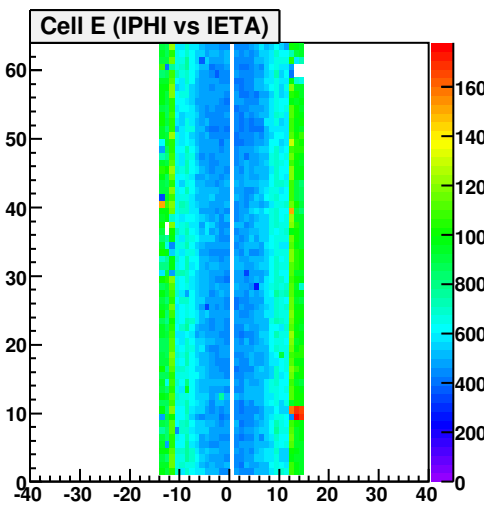


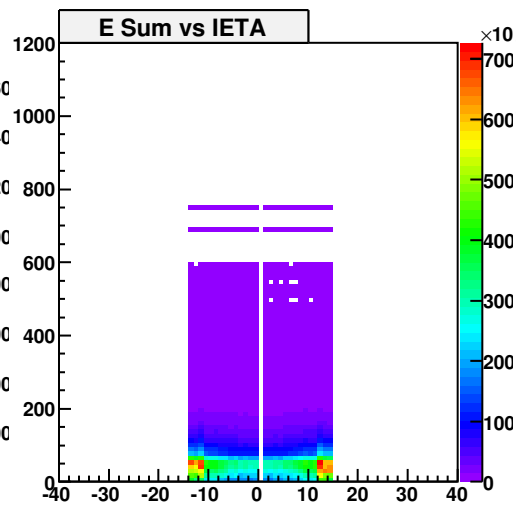


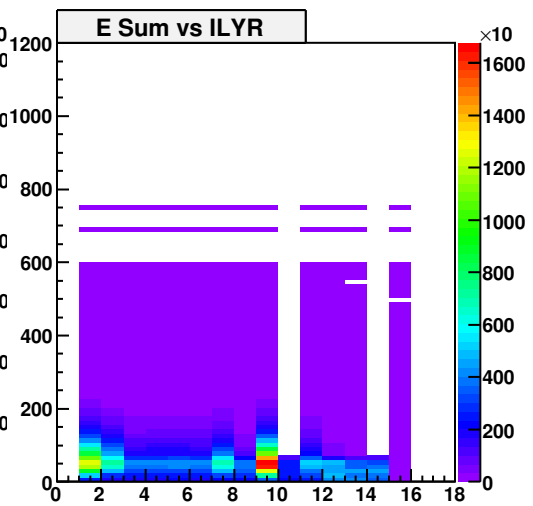




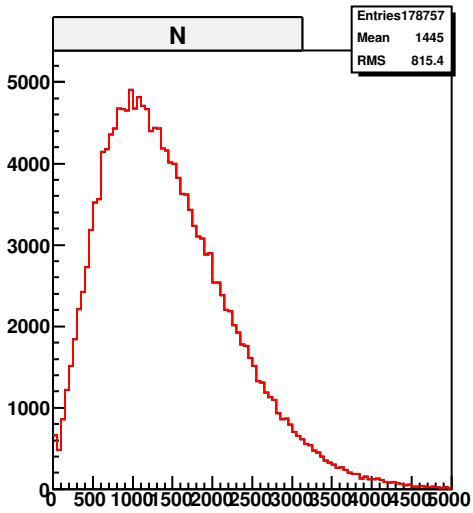


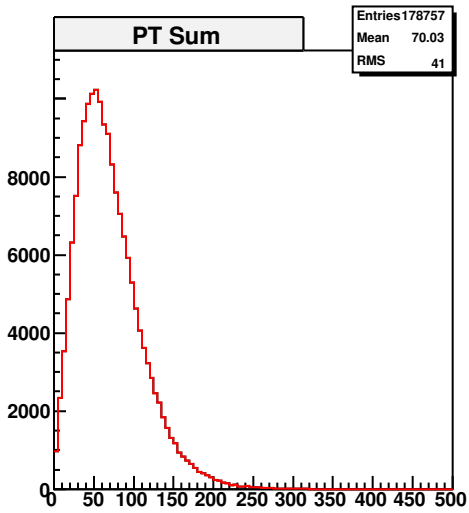


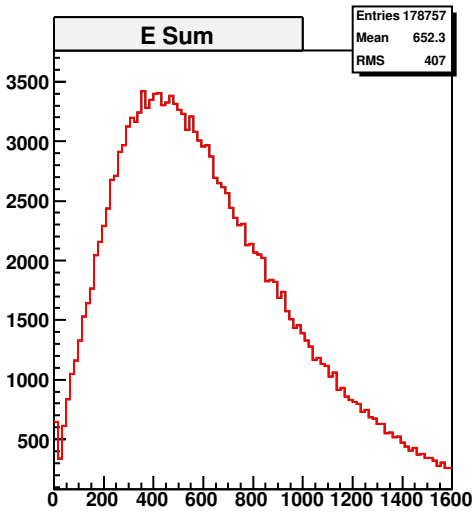


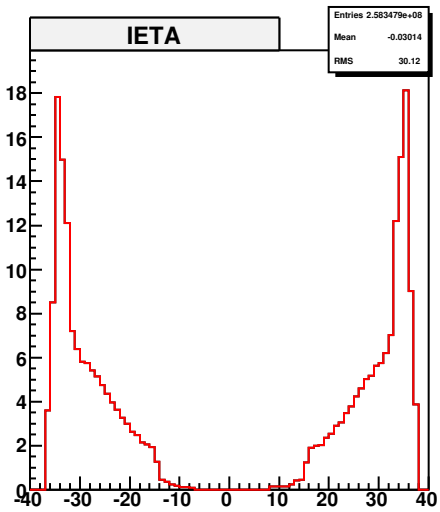


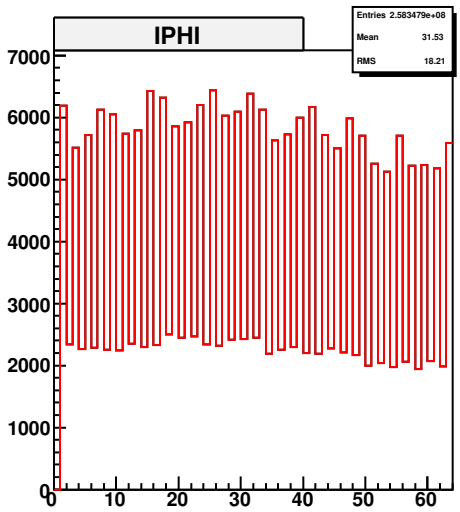
Calorimeter (All CC cells)

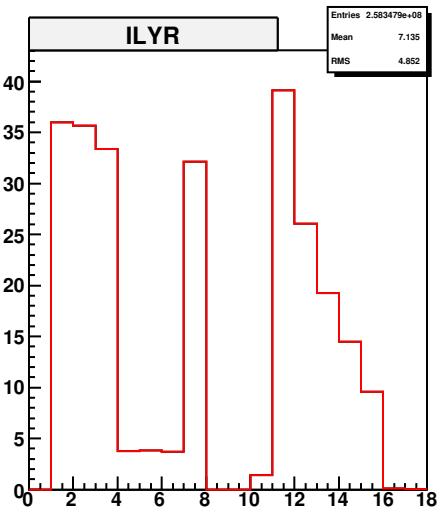


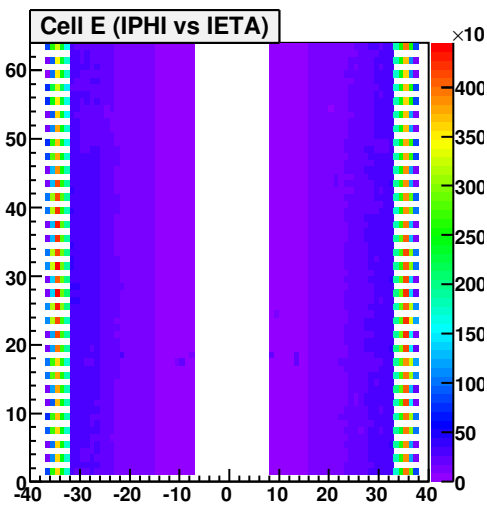


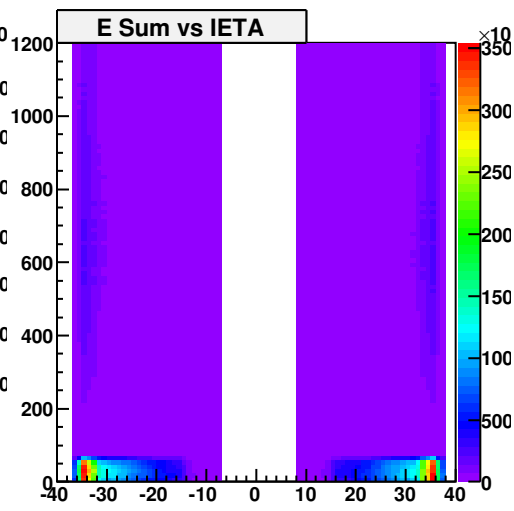


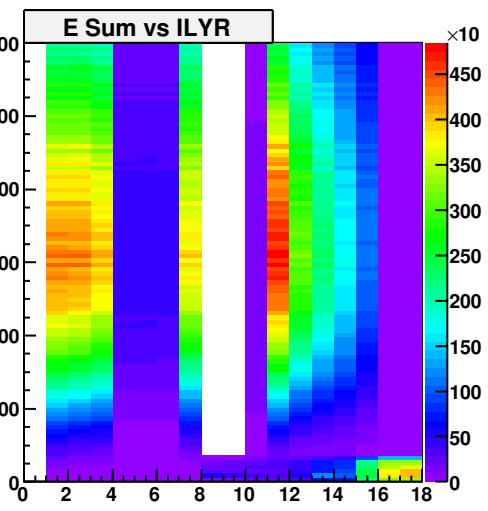




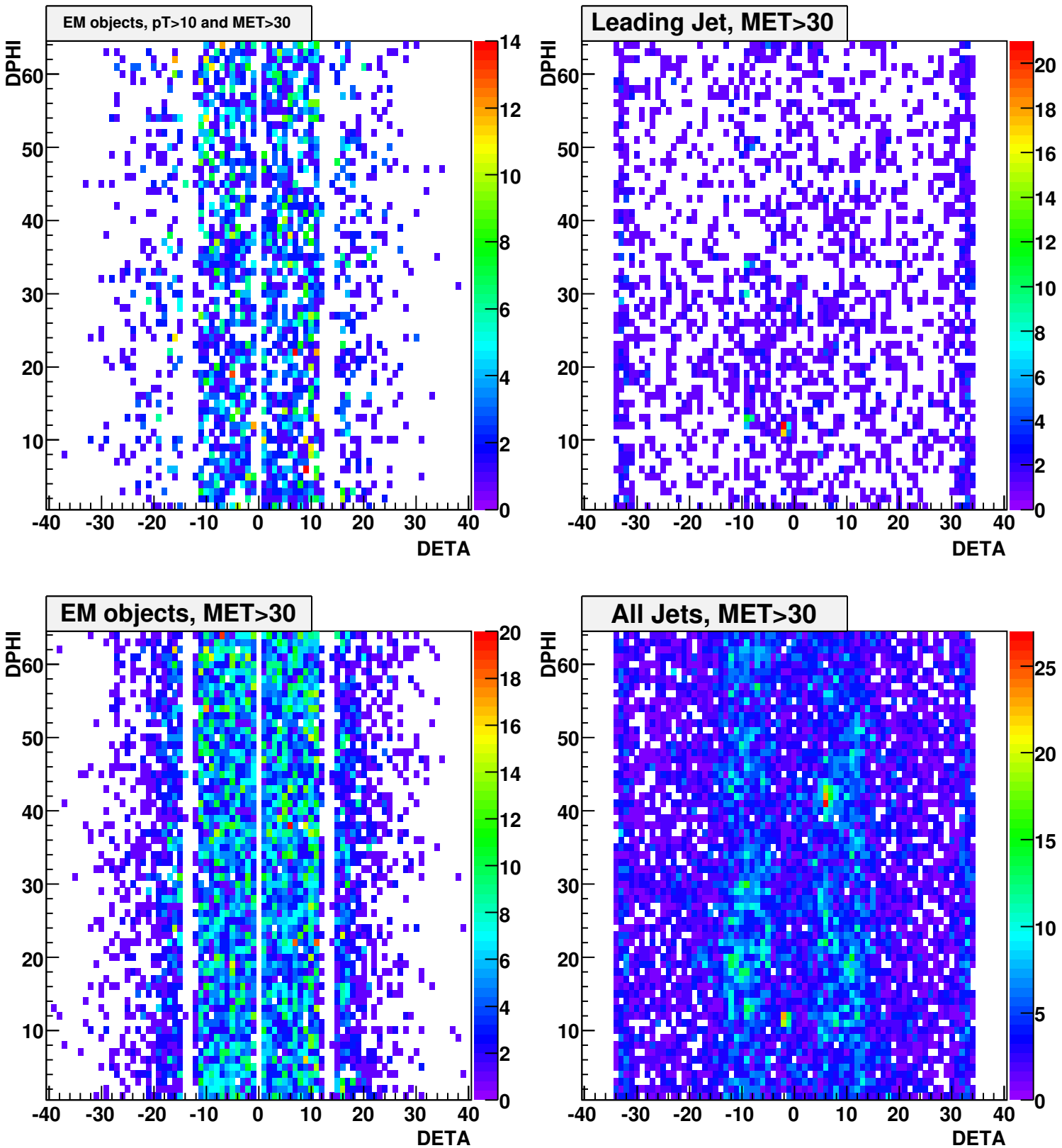




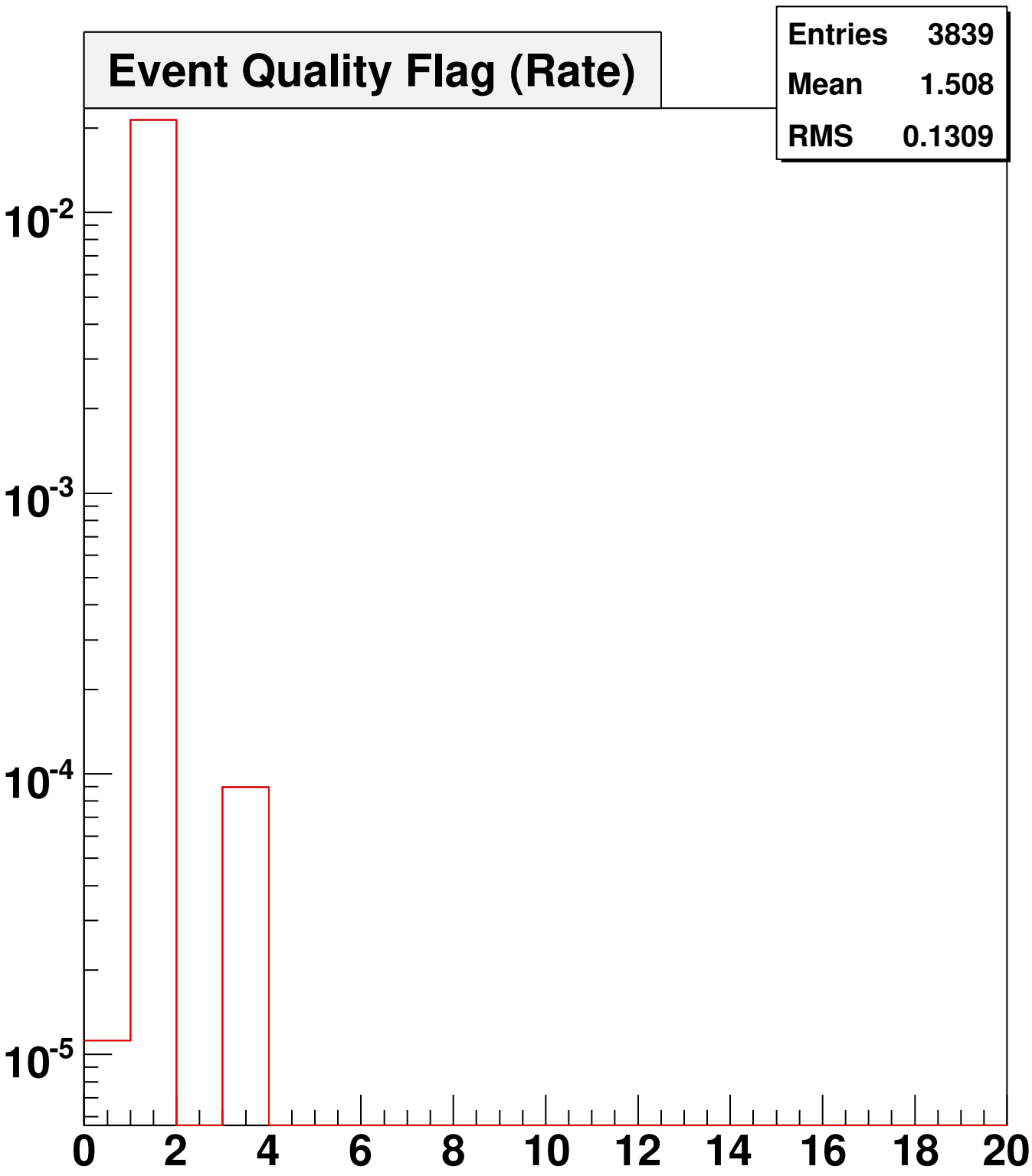


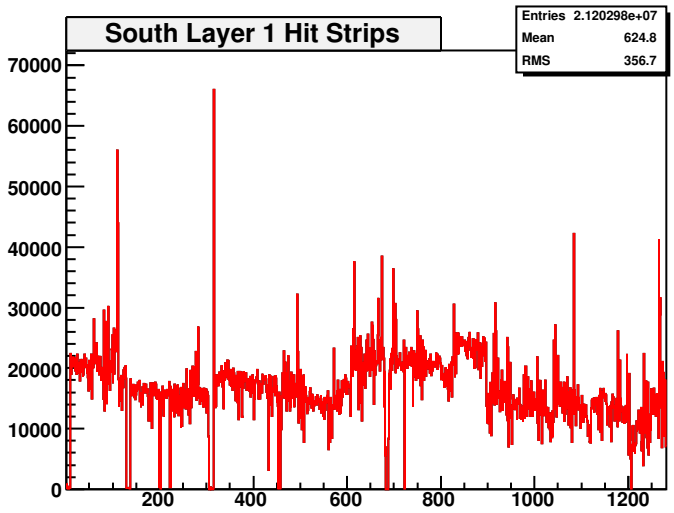


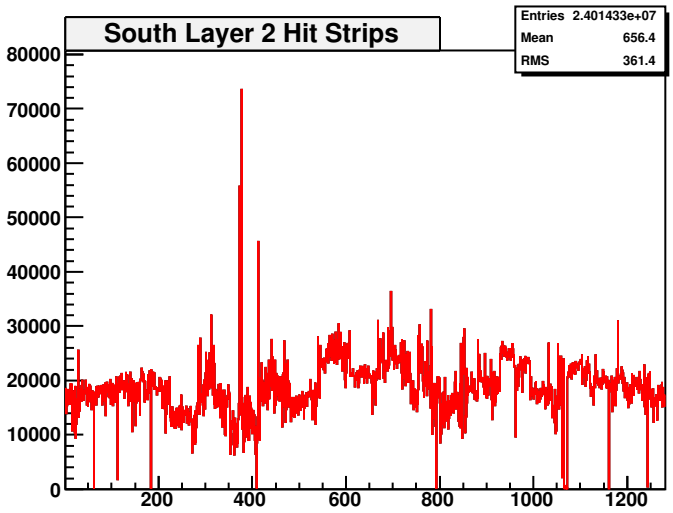
Calorimeter (All EC cells)

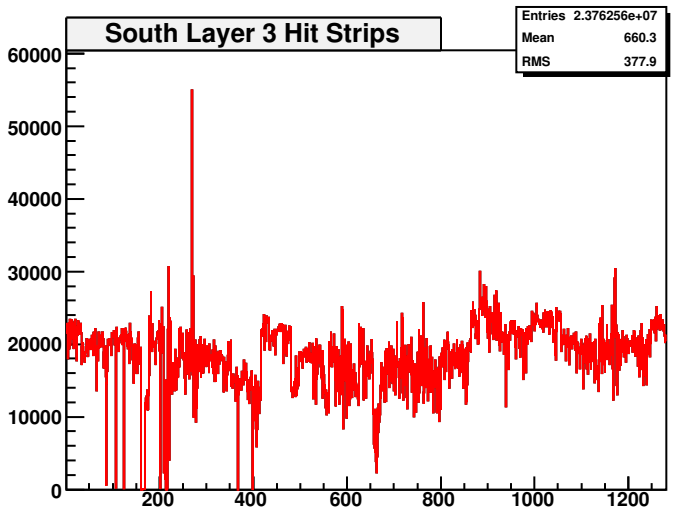


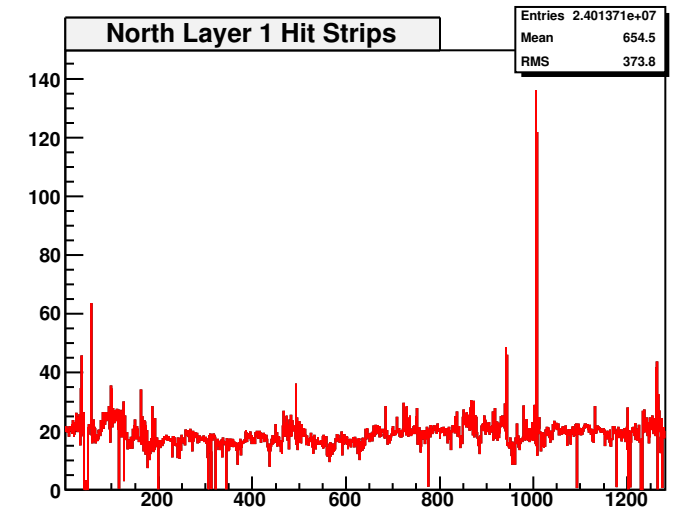
Cal Objects with MET>30 (All cells)

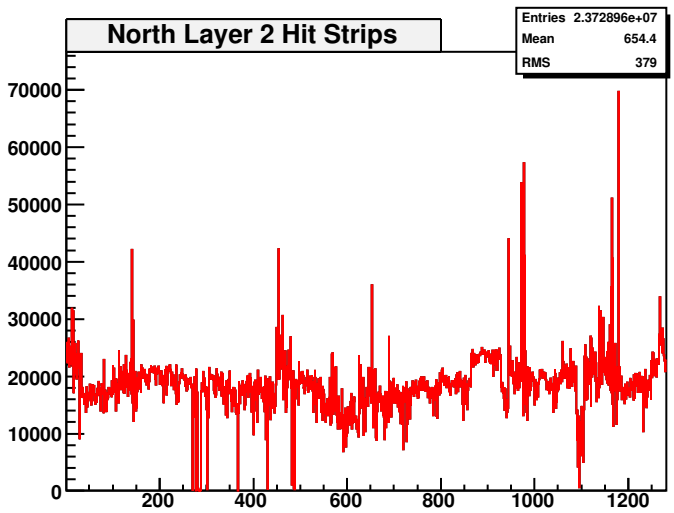

Event Quality Flag (Rate)
Entries 3839
Mean 1.508
RMS 0.1309
10-2
10-3
10-4
10-5
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

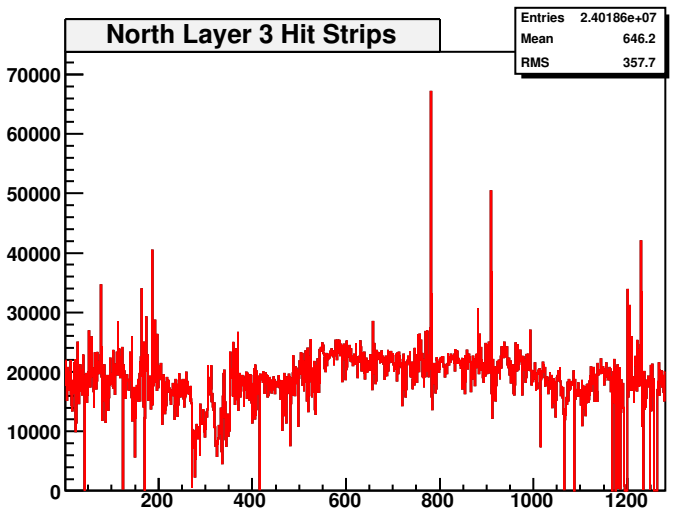




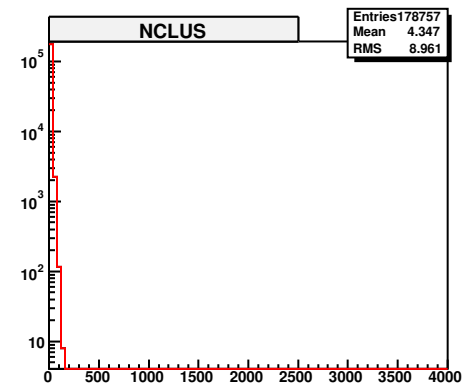


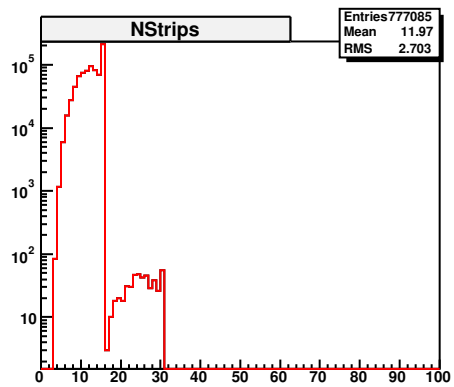


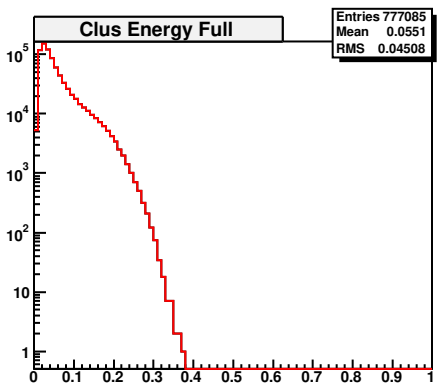


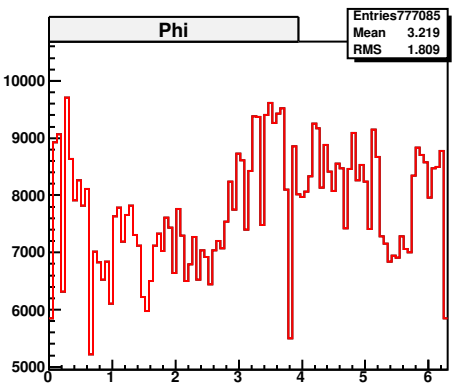


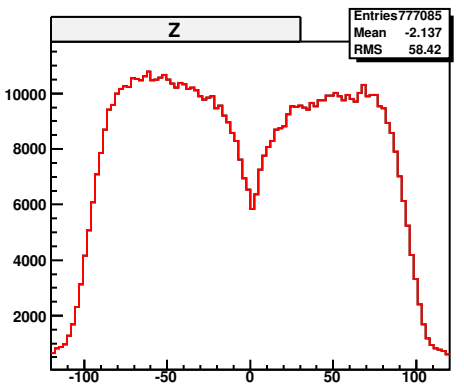
CPS Hit Strips (All Clusters)

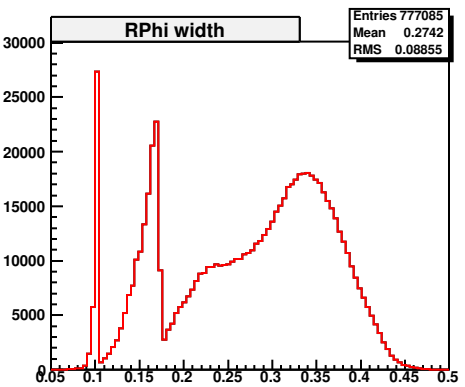


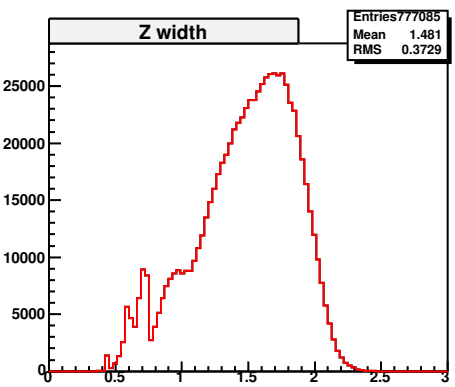


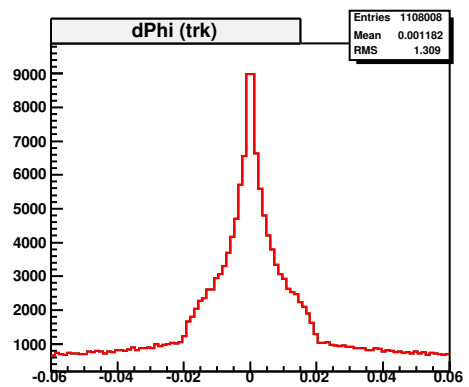


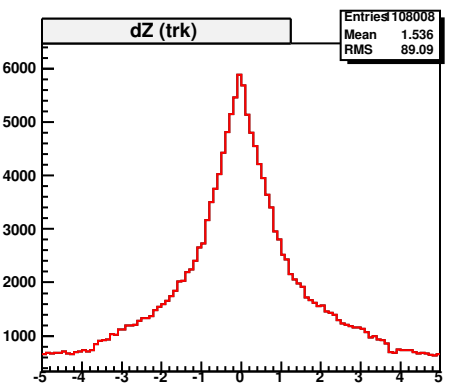


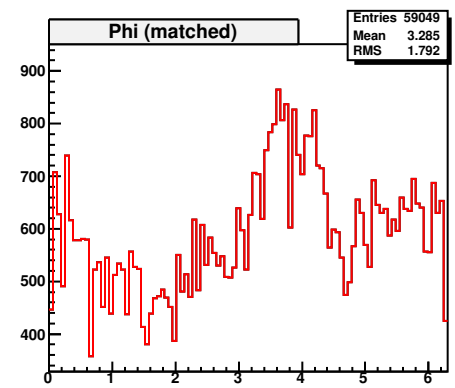


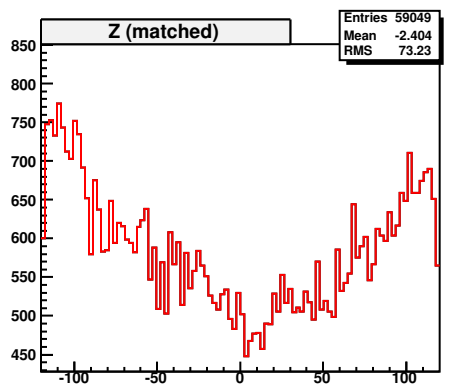




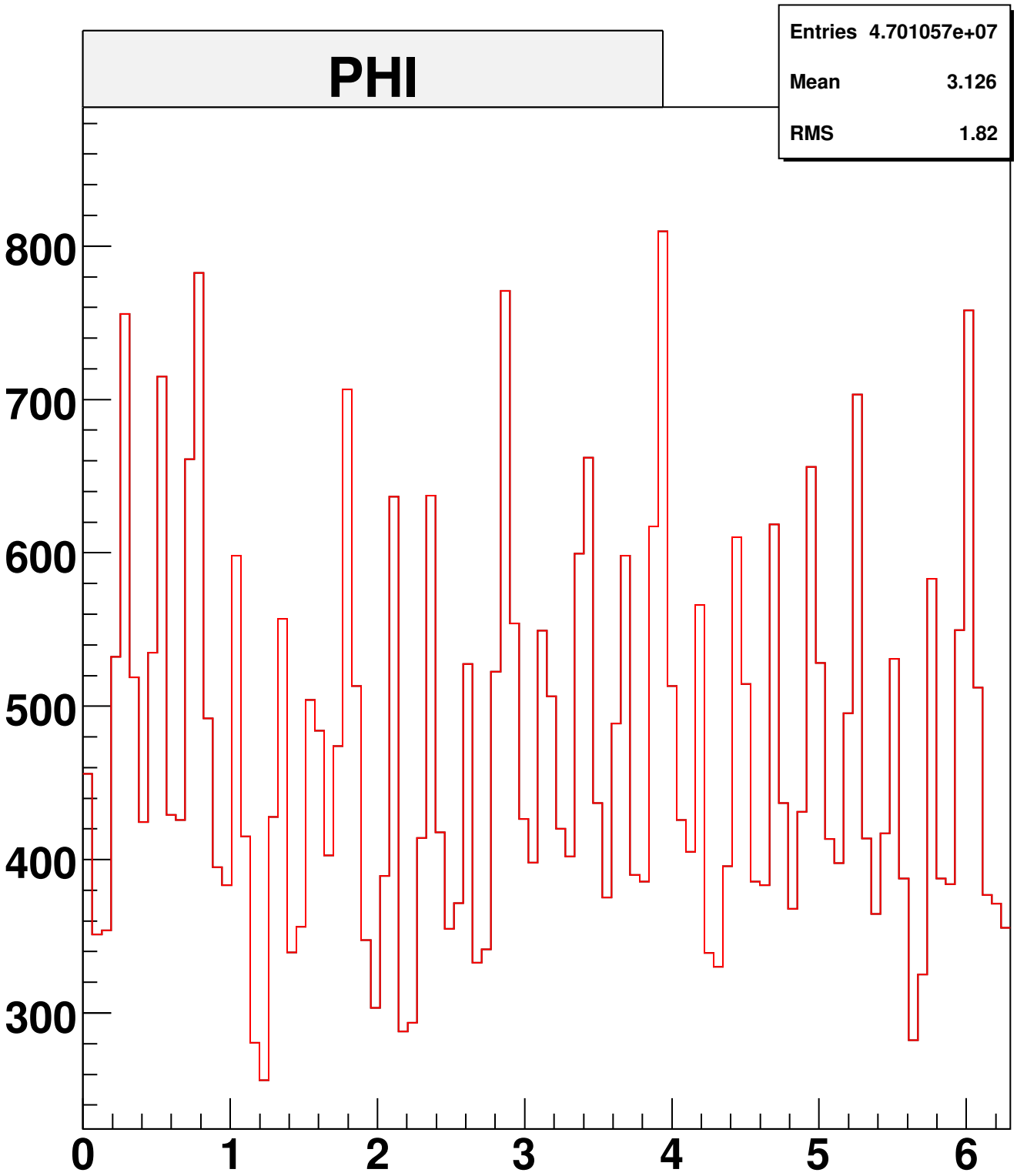


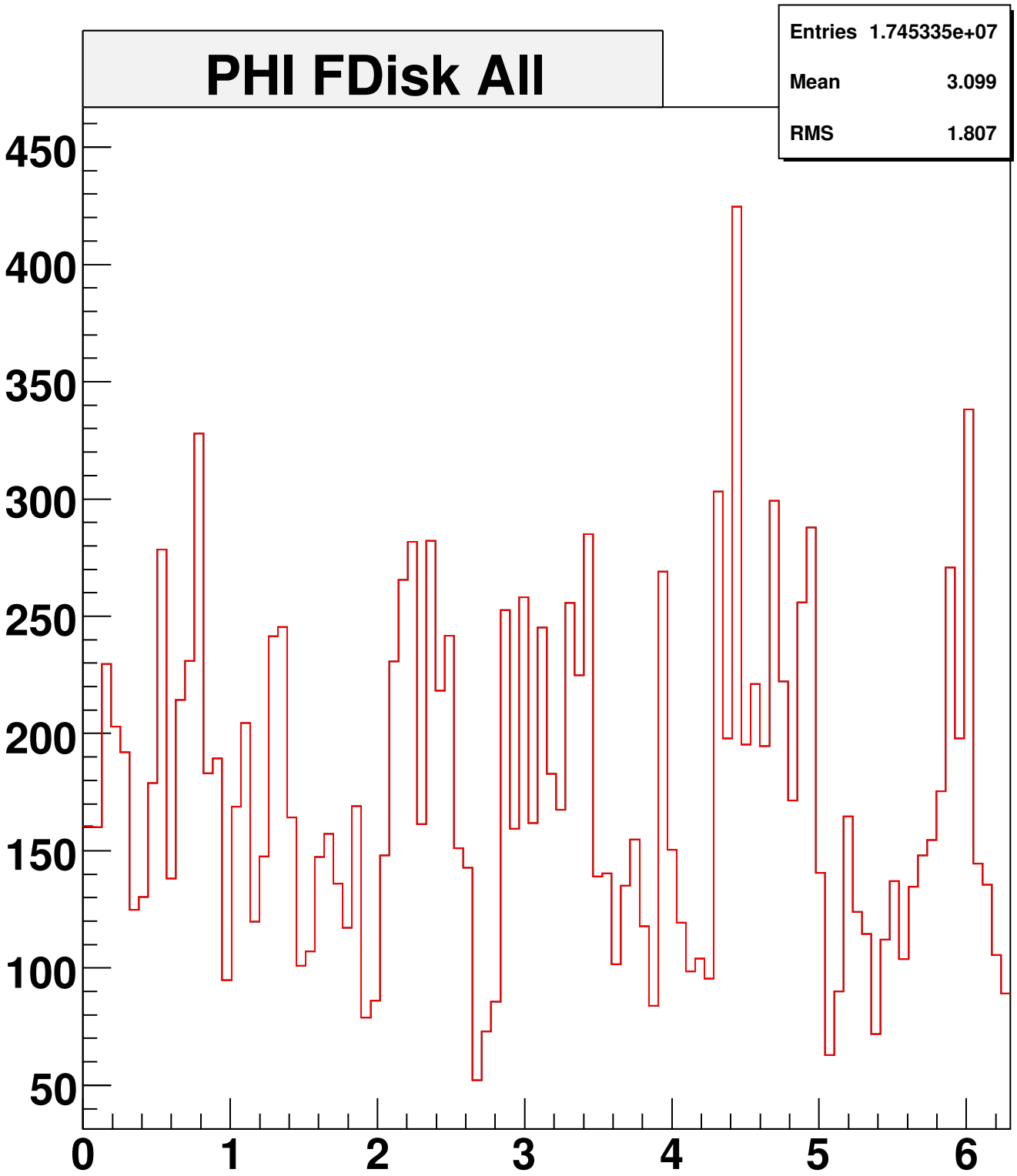


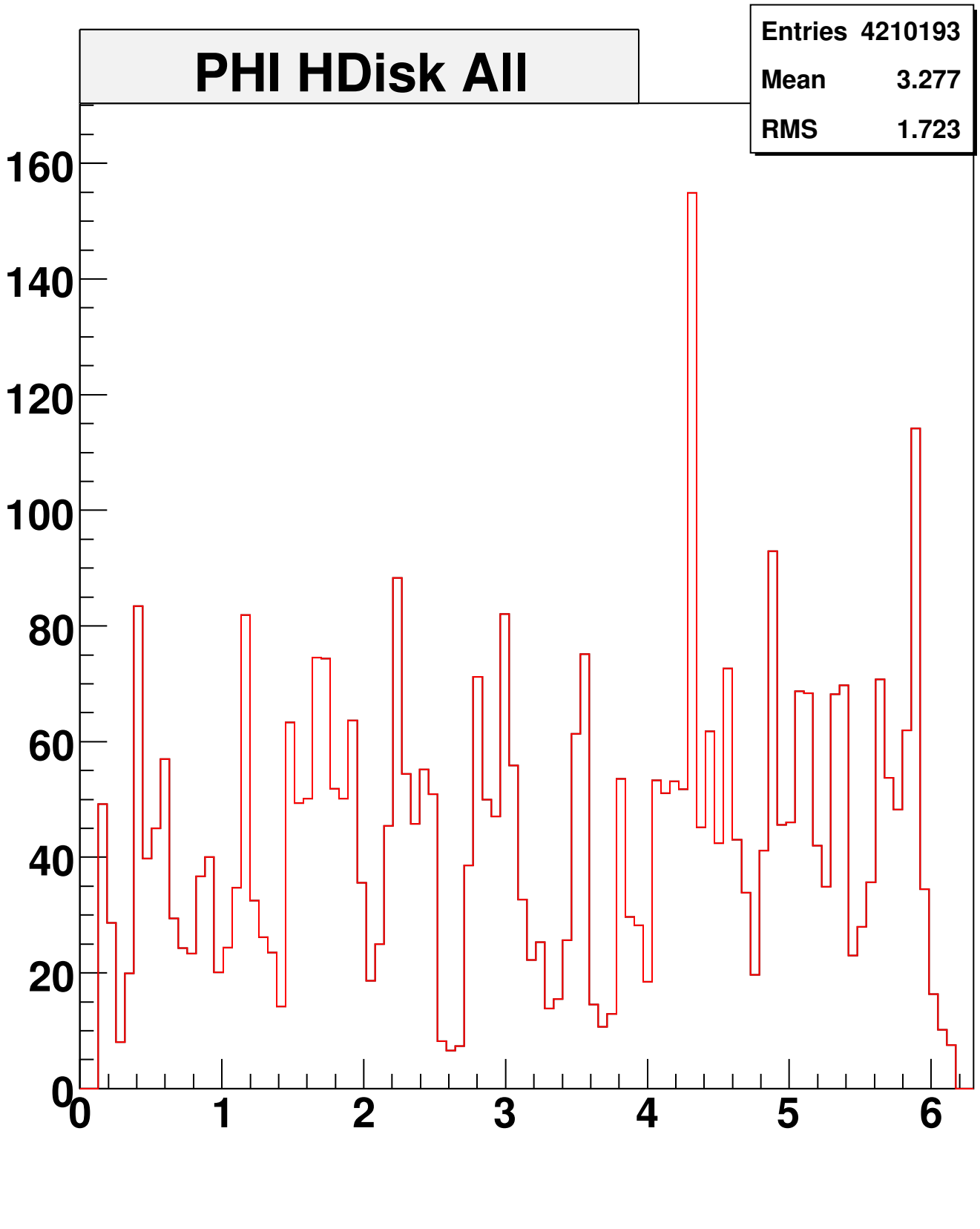


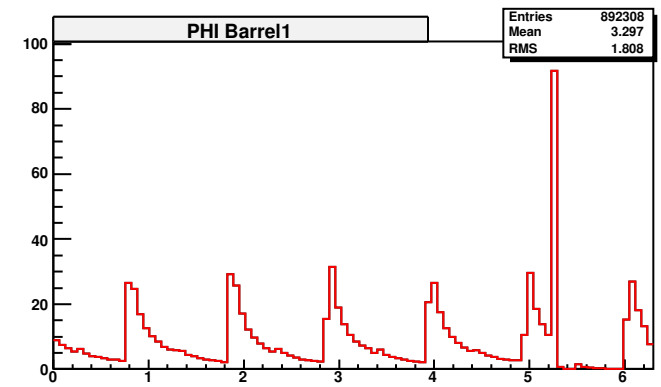


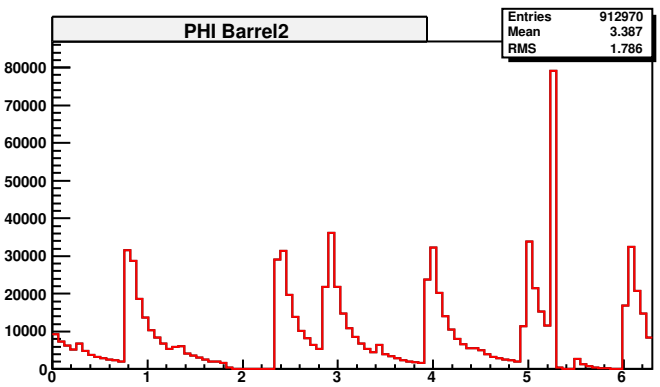
CPS Clusters (All Clusters)

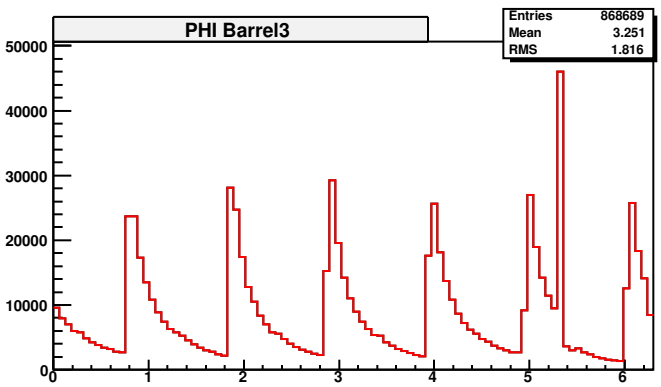

PHI
Entries 4.701057e+07
Mean 3.126
RMS 1.82
800
700
600
500
400
300
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

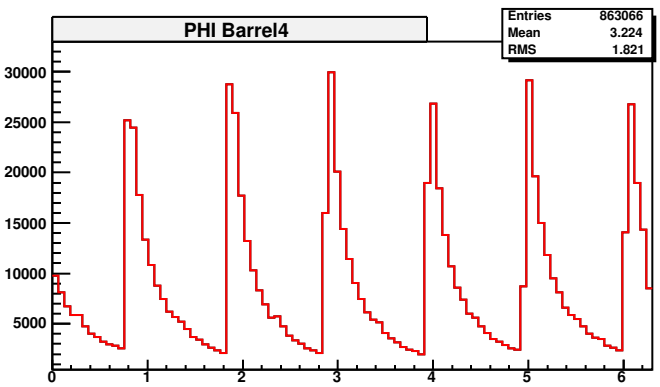

PHI FDisk All
Entries 1.745335e+07
Mean 3.099
RMS 1.807
450
400
350
300
250
200
150
100
50
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

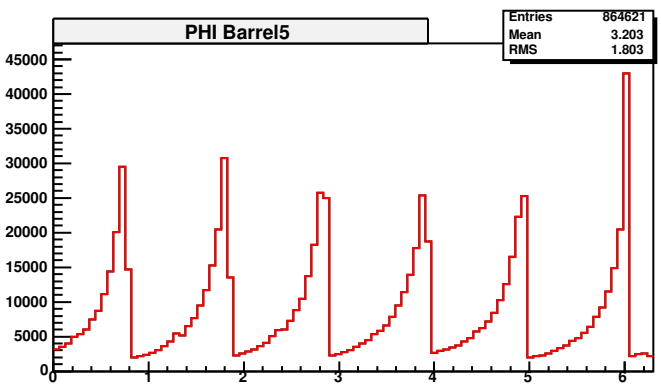

PHI HDisk All
Entries 4210193
Mean 3.277
RMS 1.723
160
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

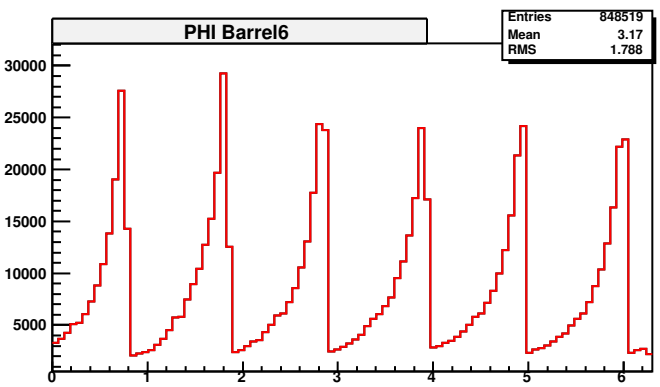


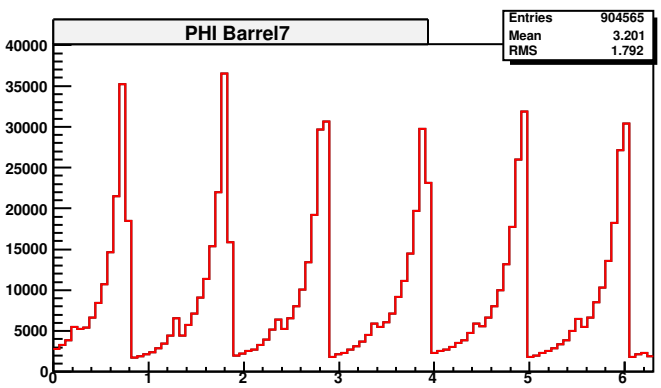


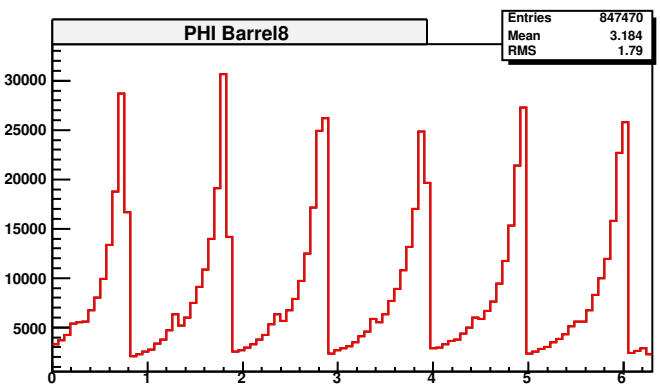




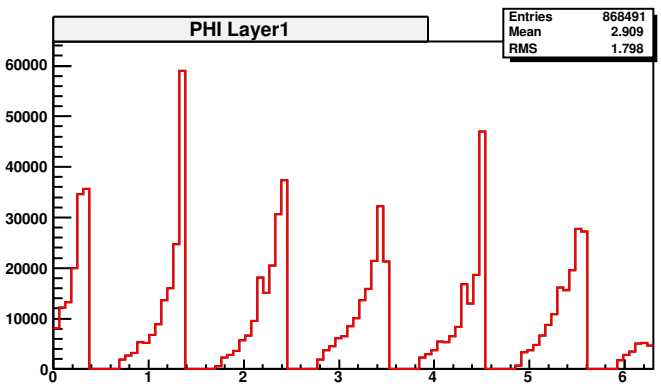


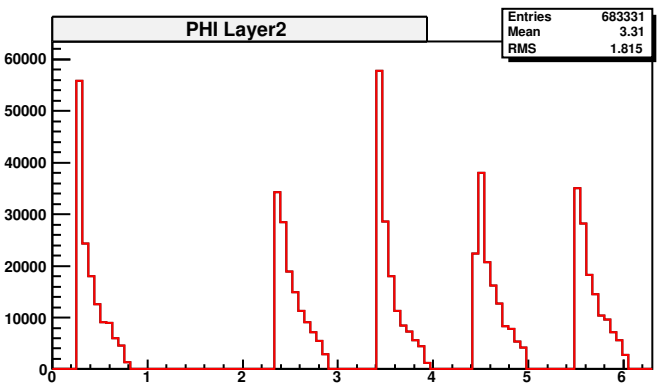


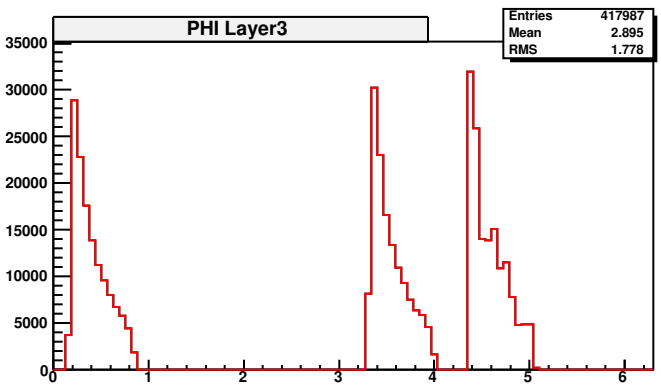


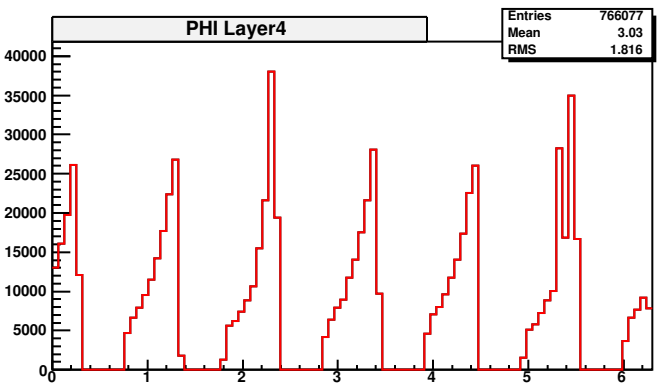


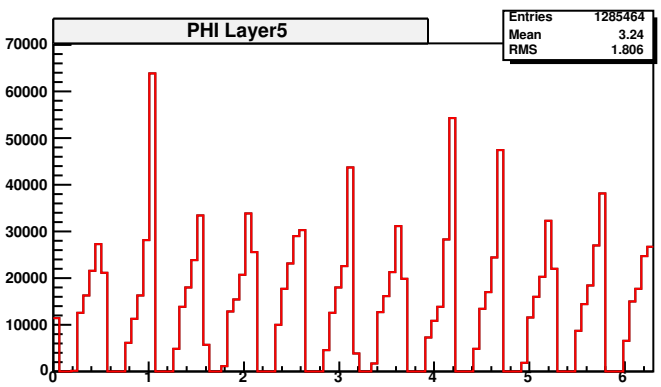
SmtClusters (ClustrLayer0)

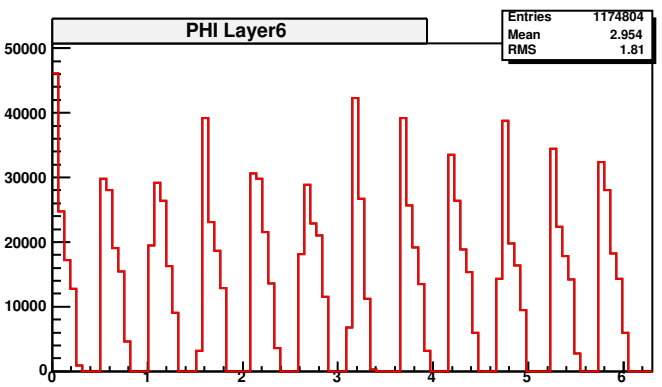


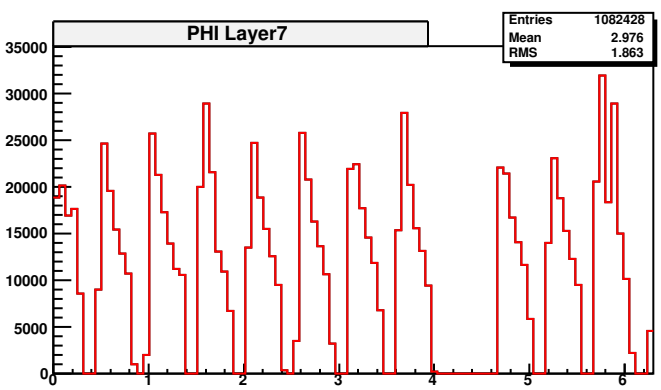


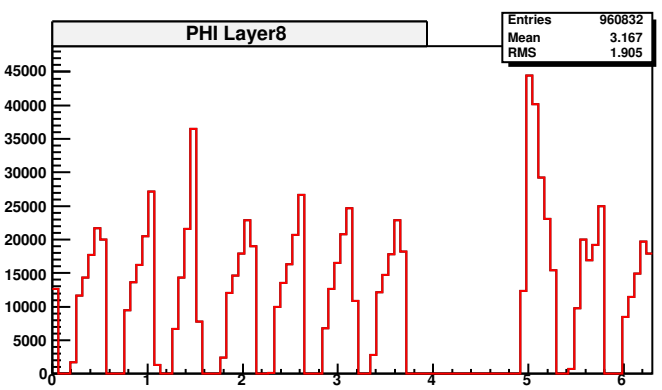




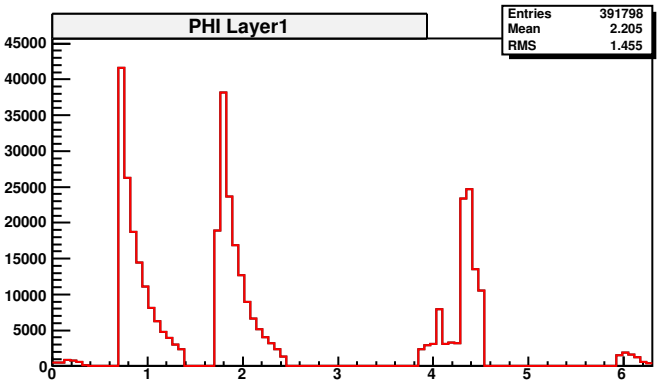


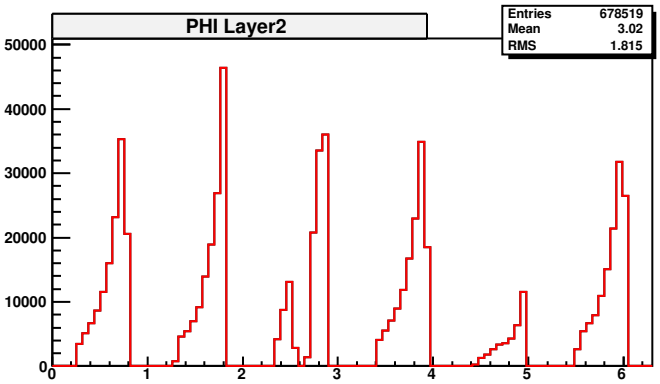


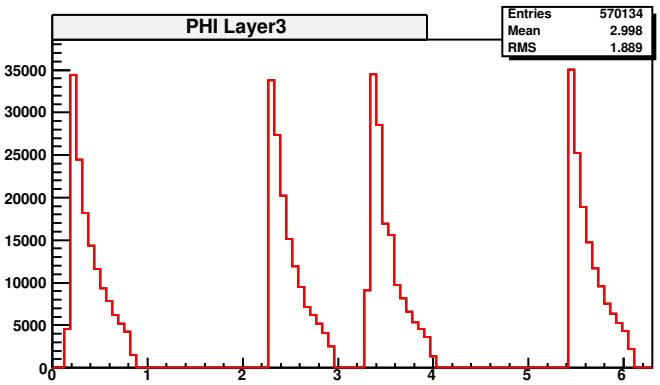


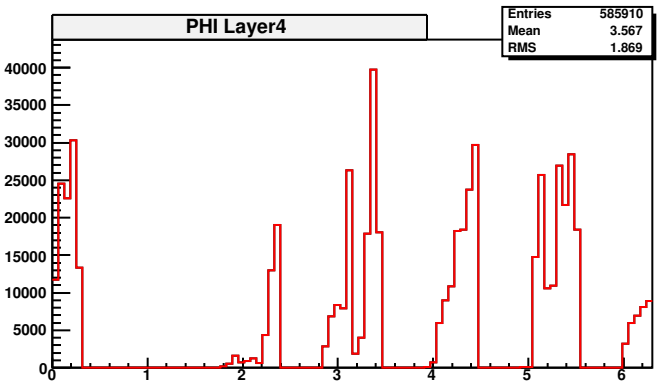


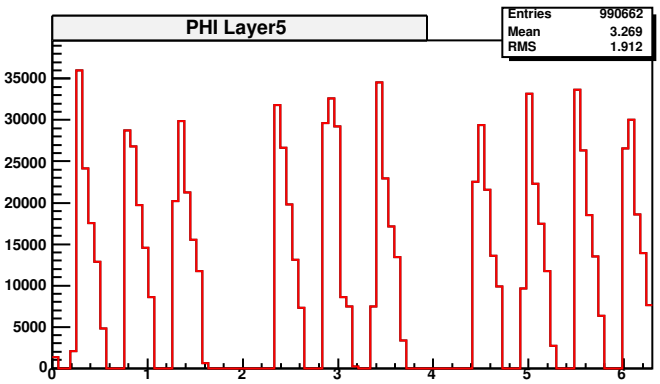
SmtClusters (ClustrBar1)

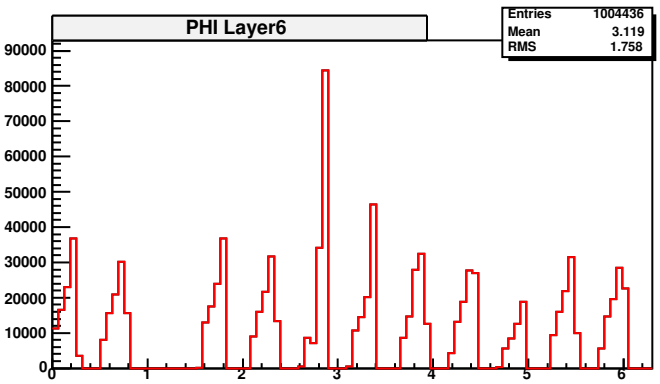


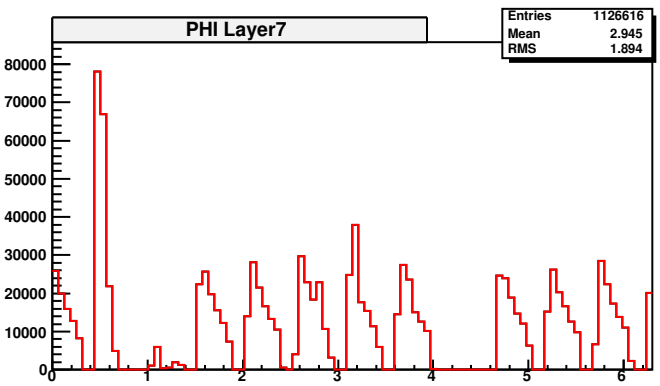


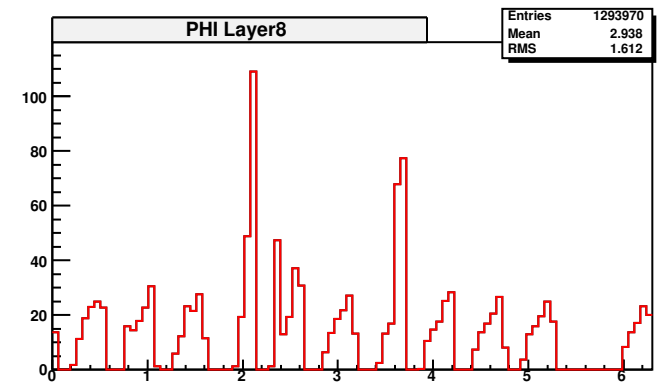




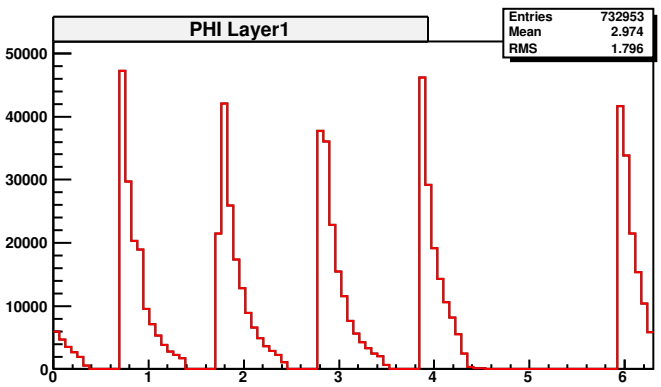


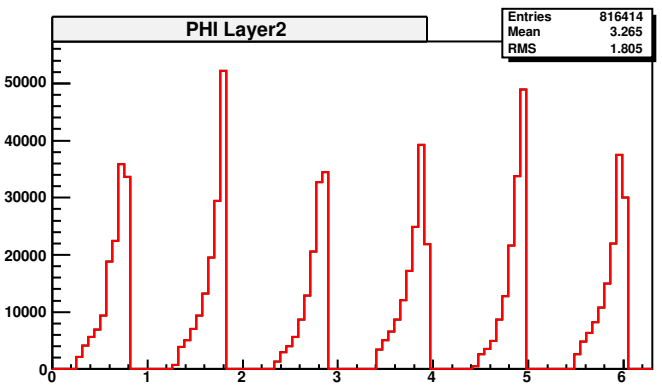


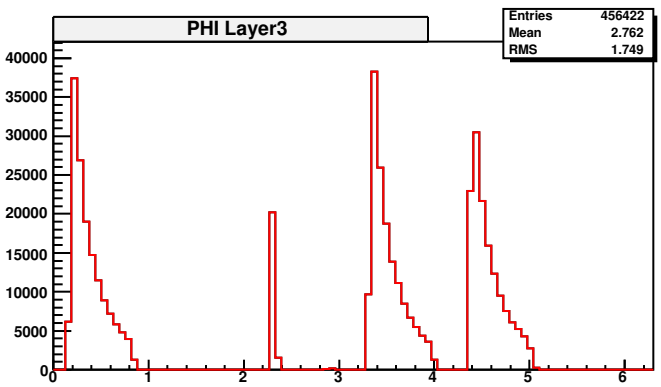


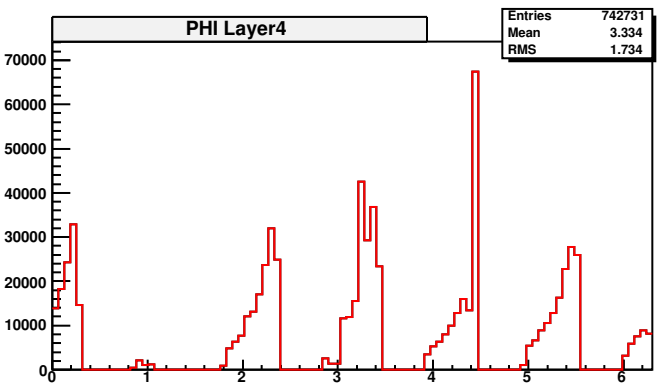


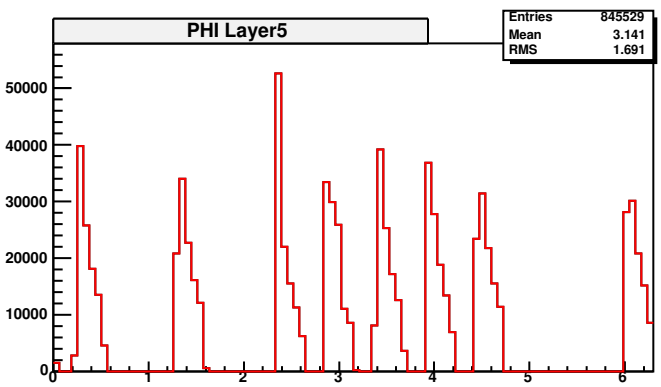
SmtClusters (ClustrBar2)

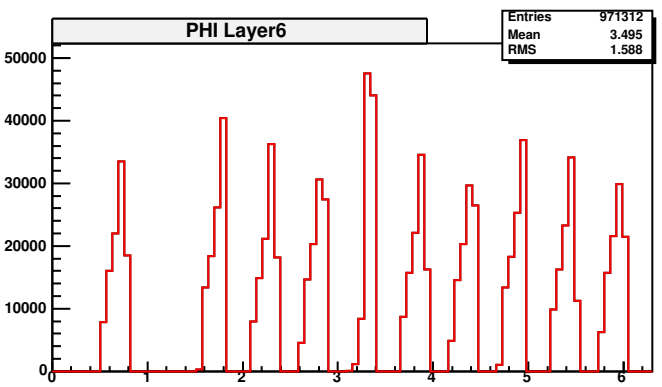


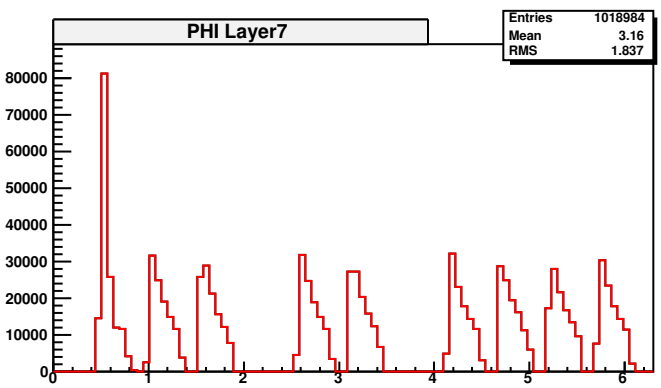


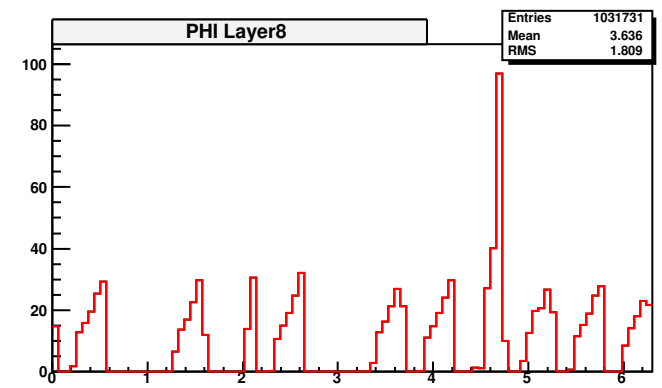




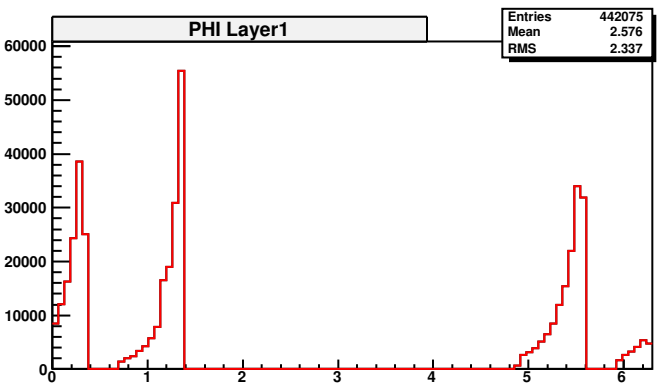


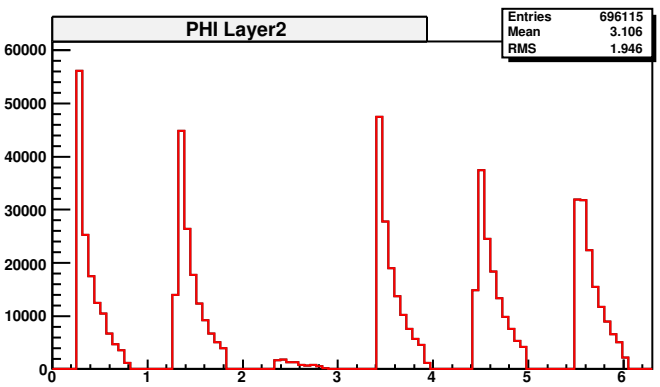


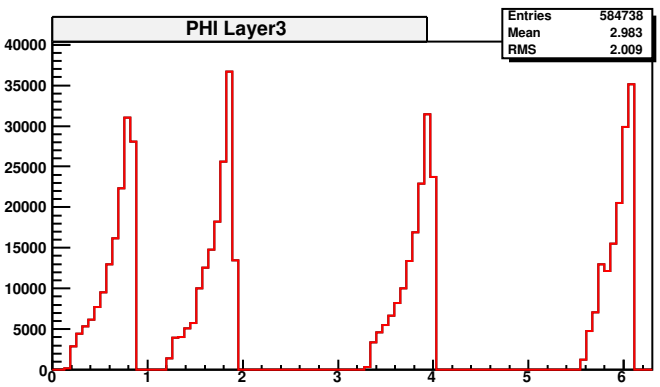


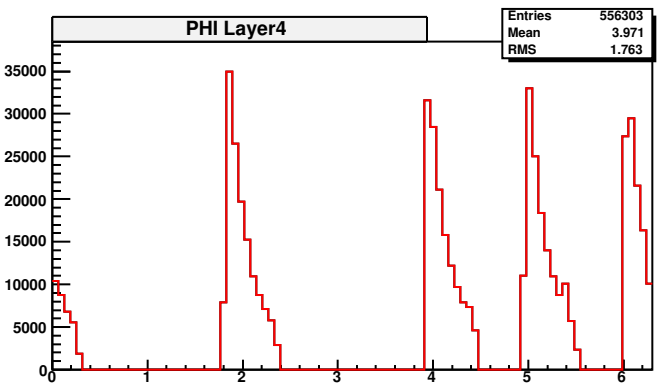


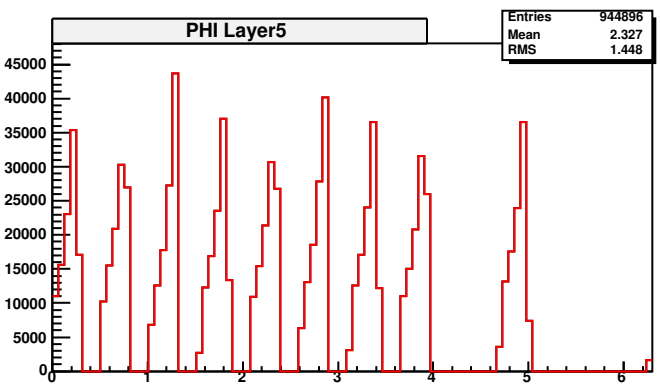
SmtClusters (ClustrBar3)

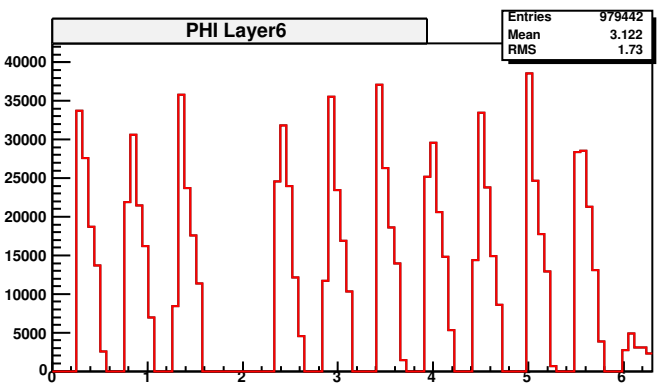


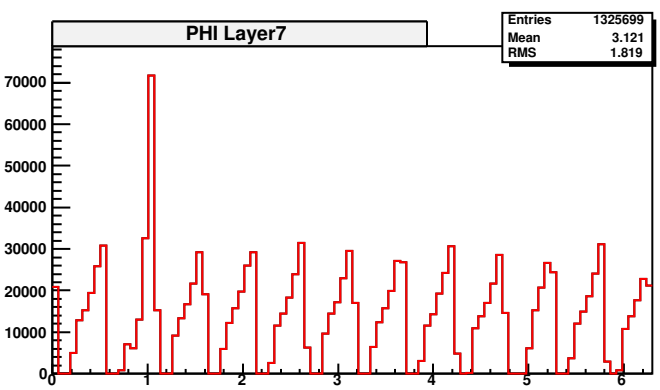


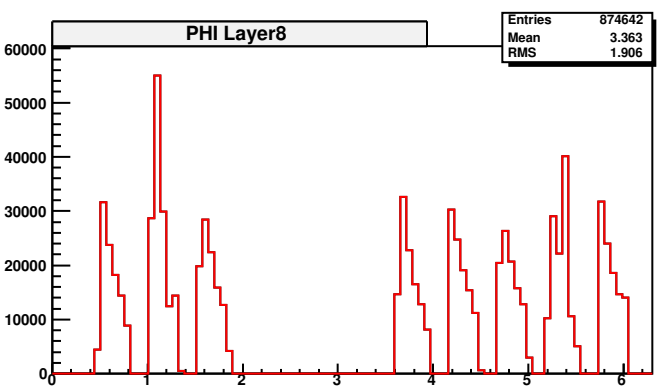




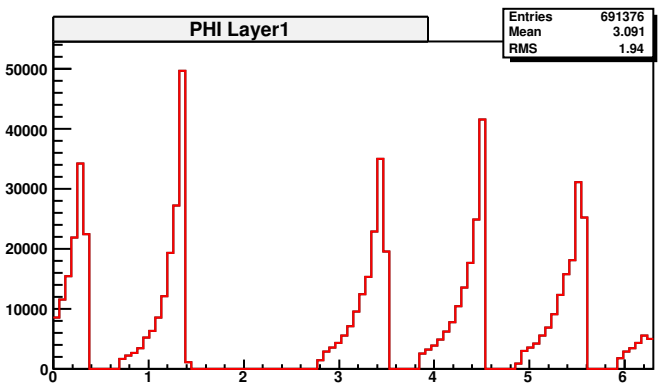


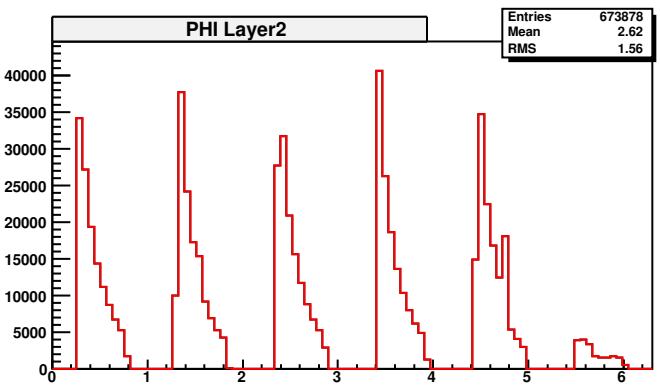


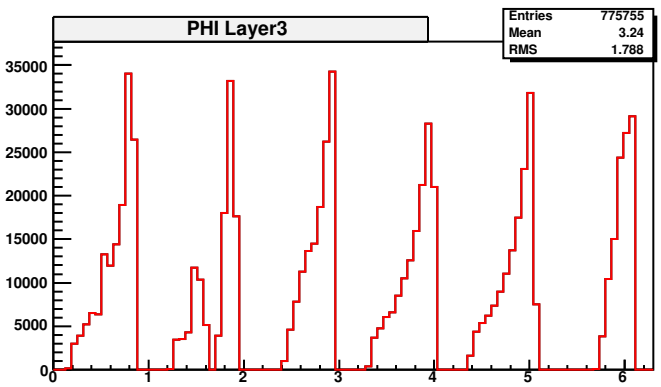


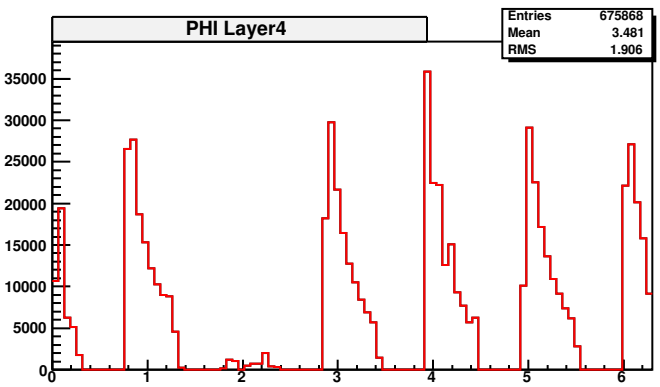


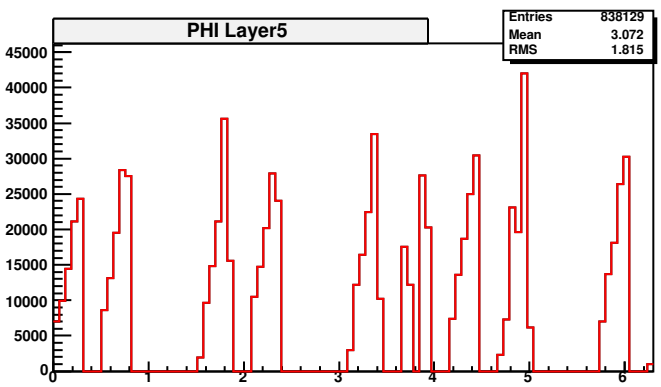
SmtClusters (ClustrBar4)

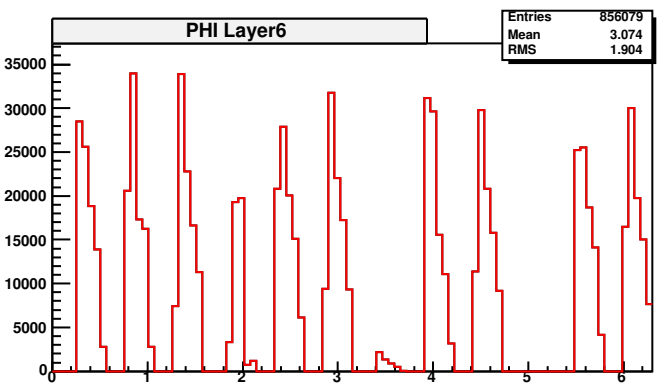


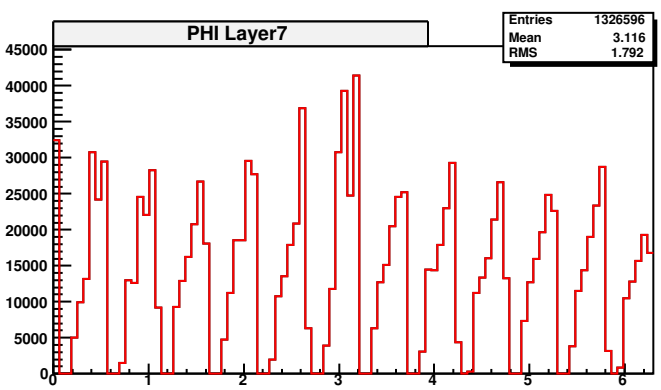


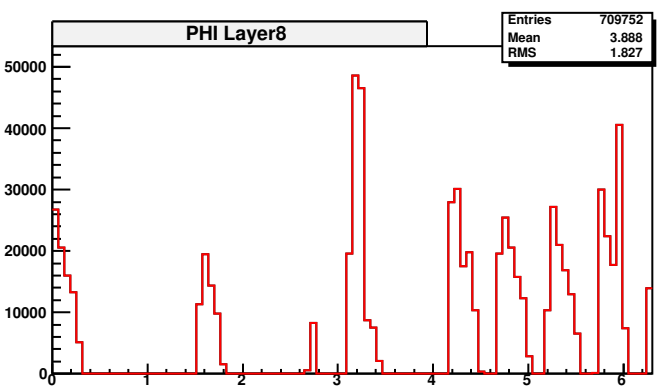




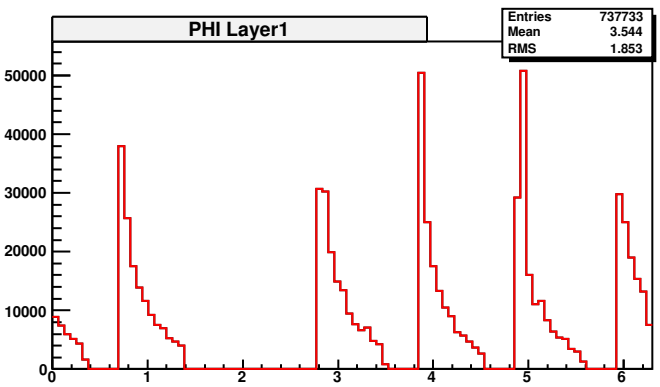


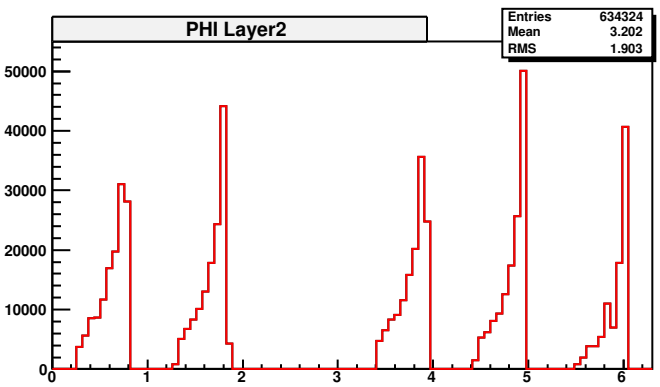


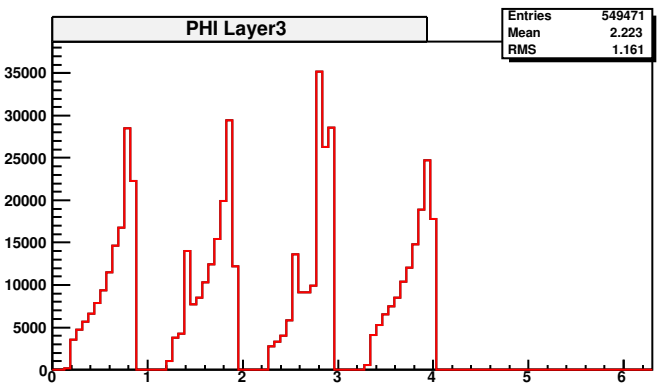


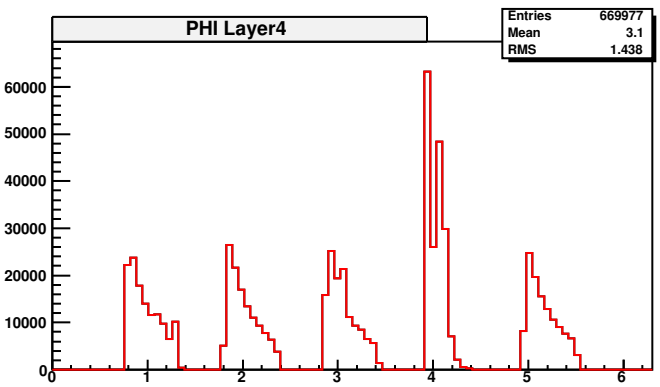


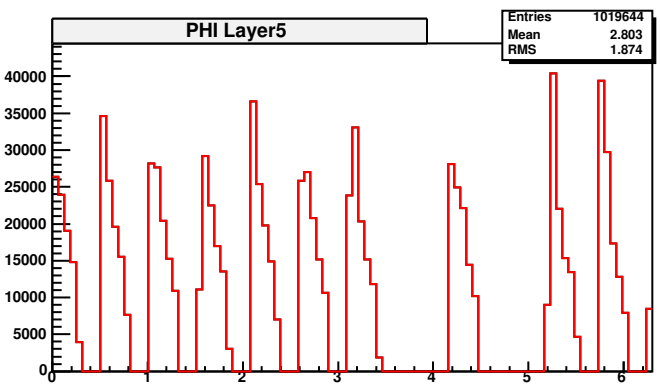
SmtClusters (ClustrBar5)

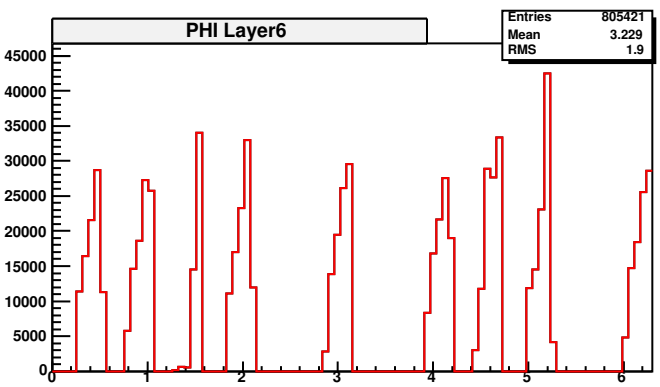


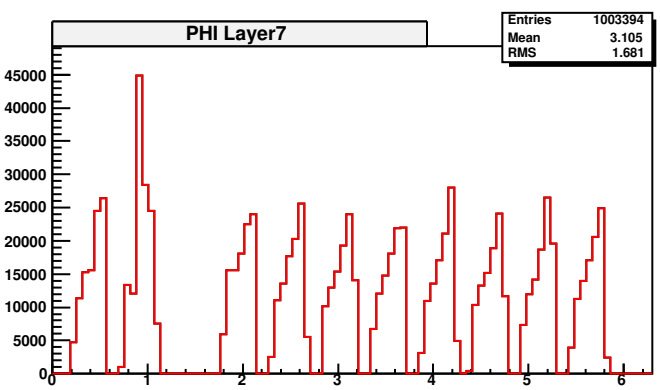


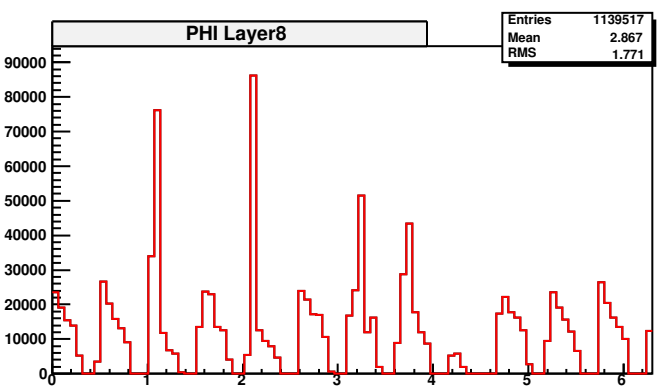




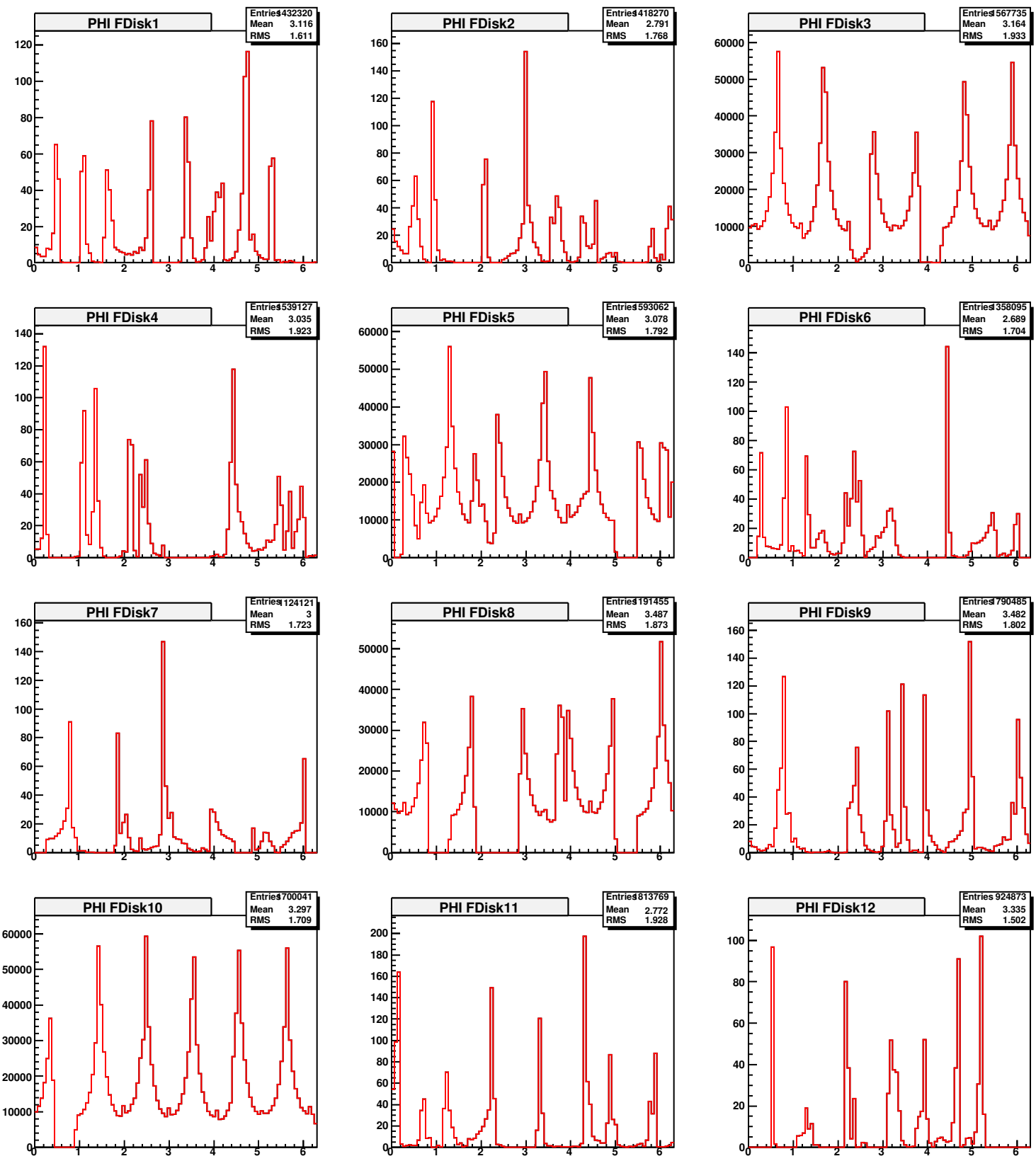




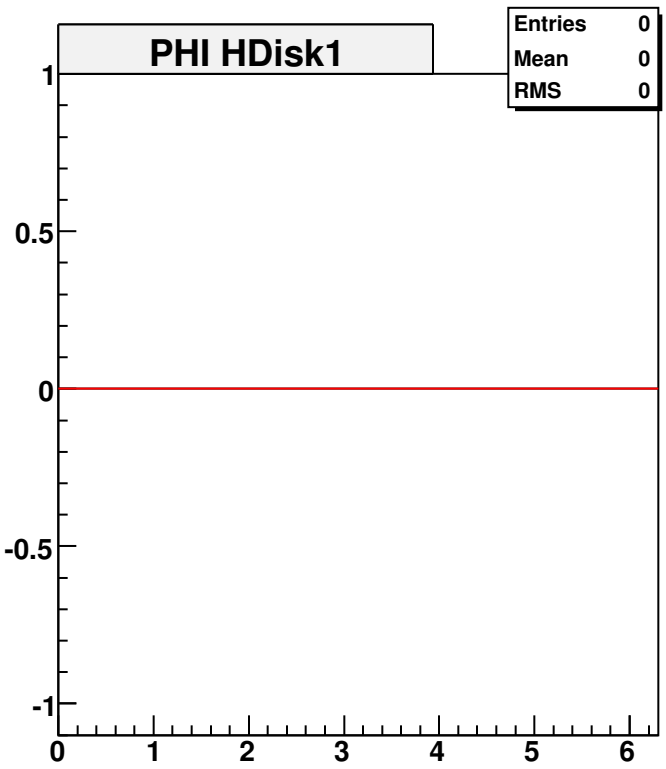


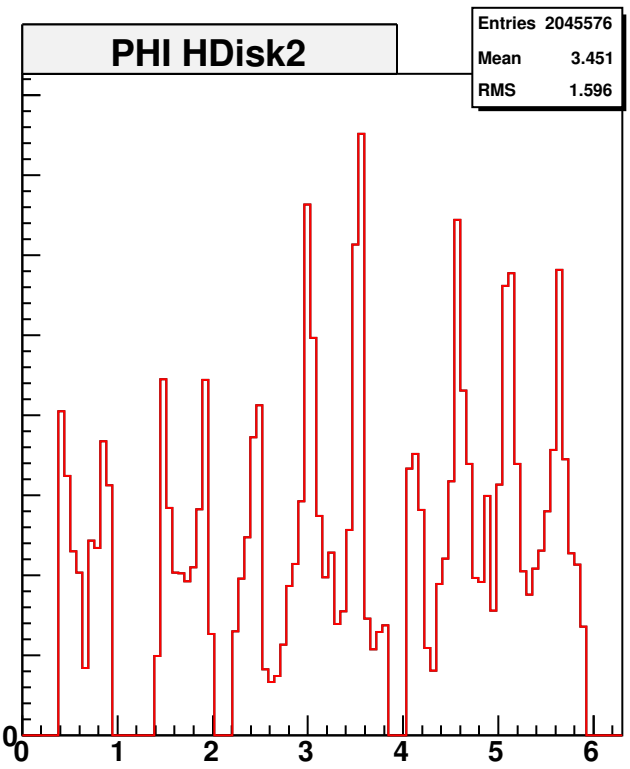


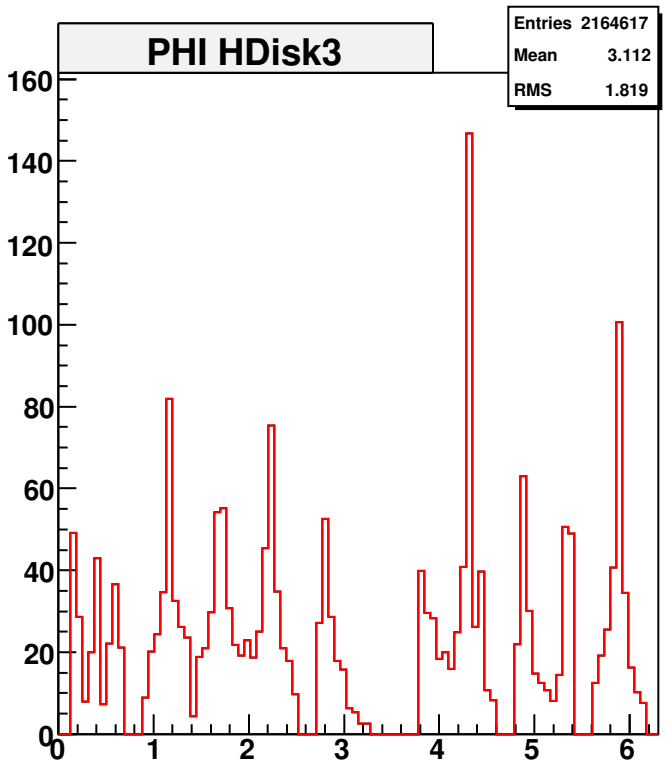
SmtClusters (ClustrBar6)

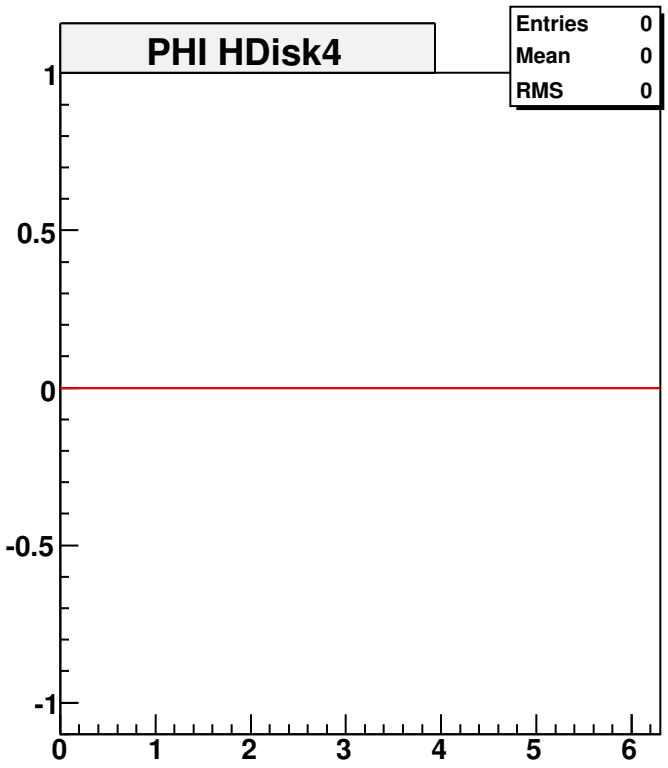


SmtClusters (FDiskClusters)

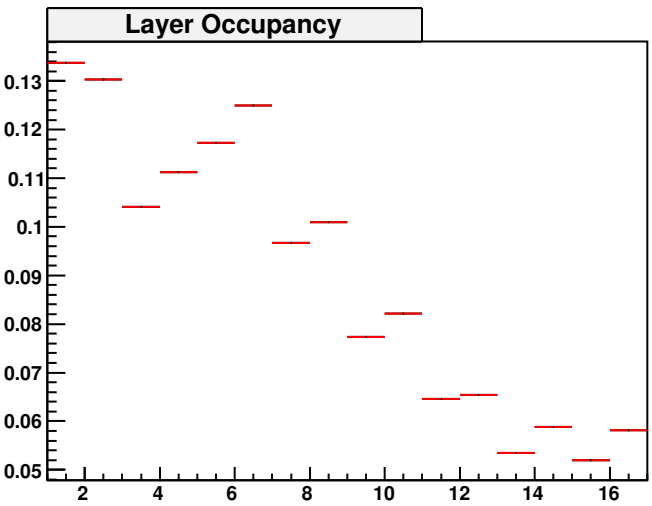


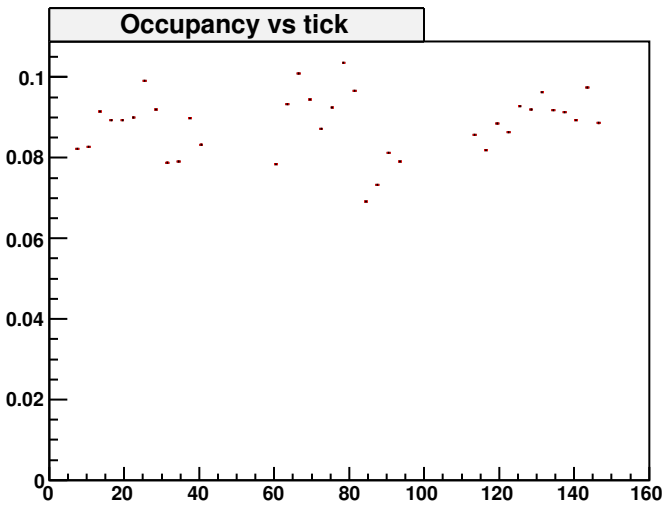


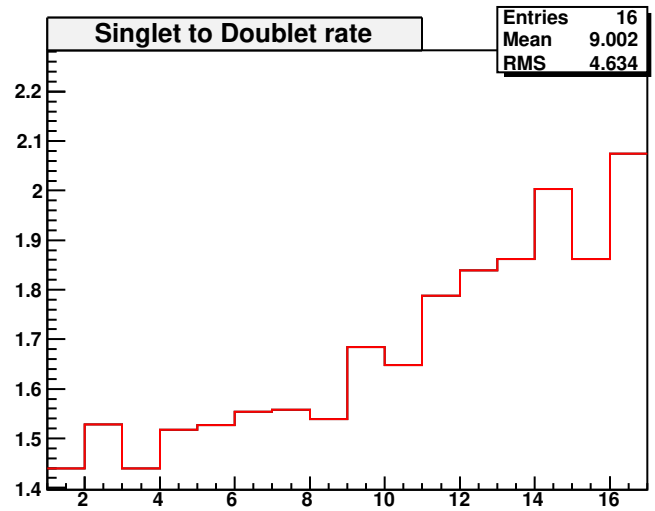


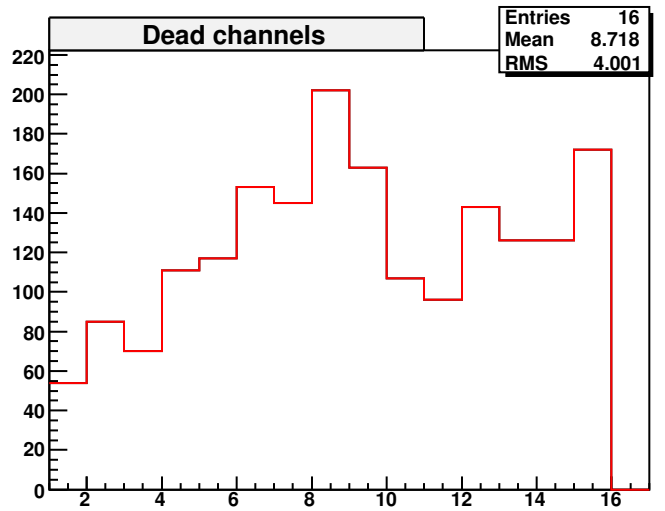


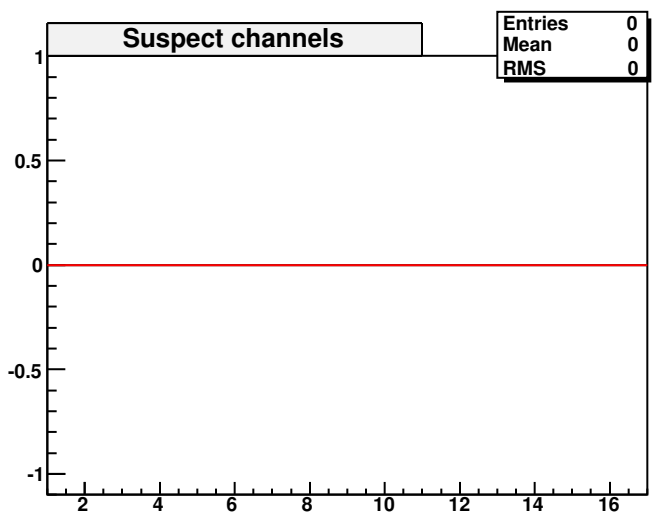
SmtClusters (HDiskClusters)

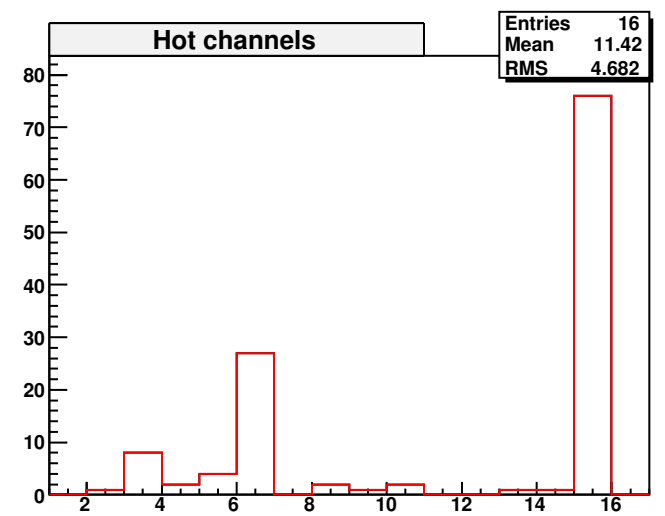




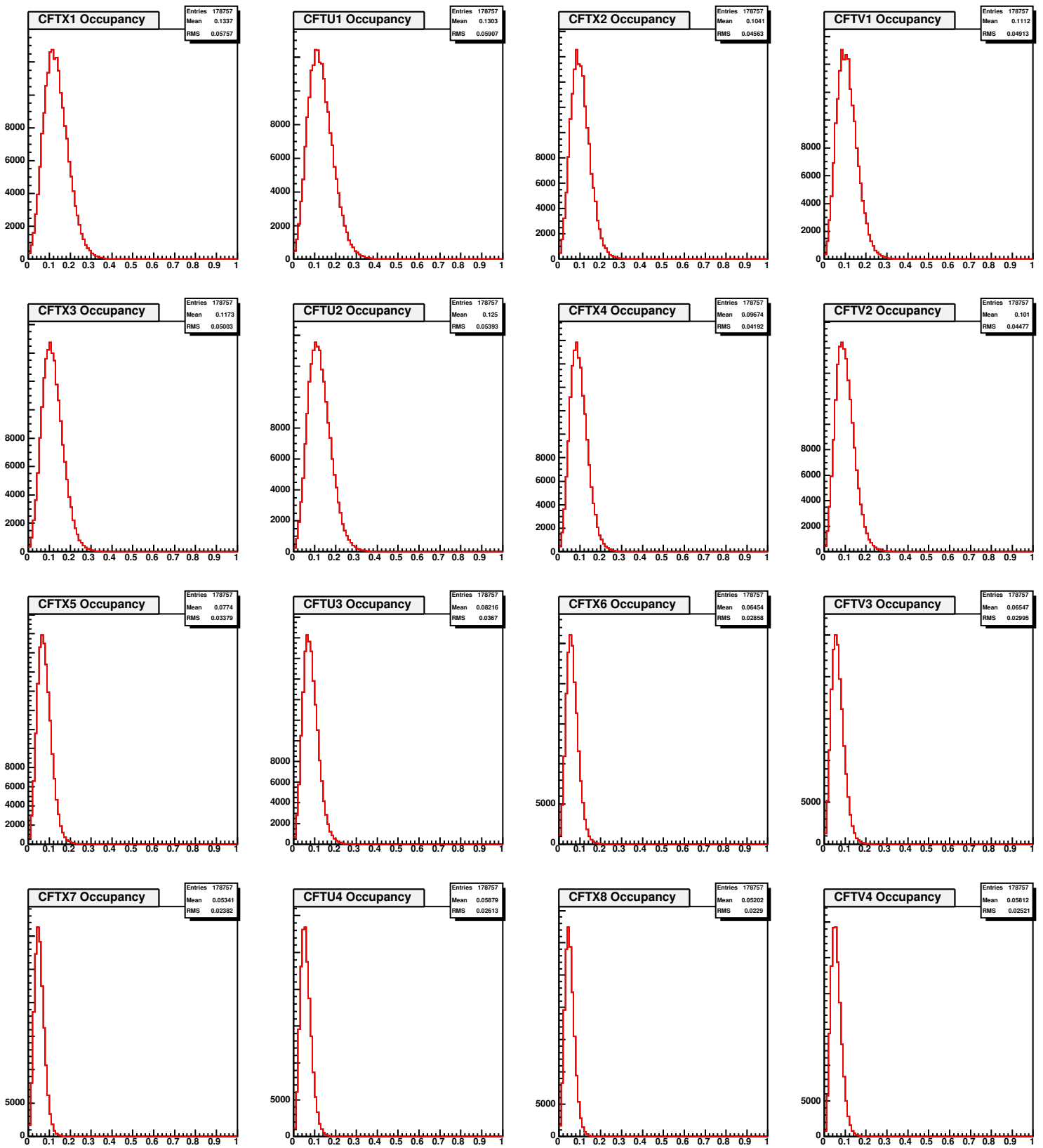




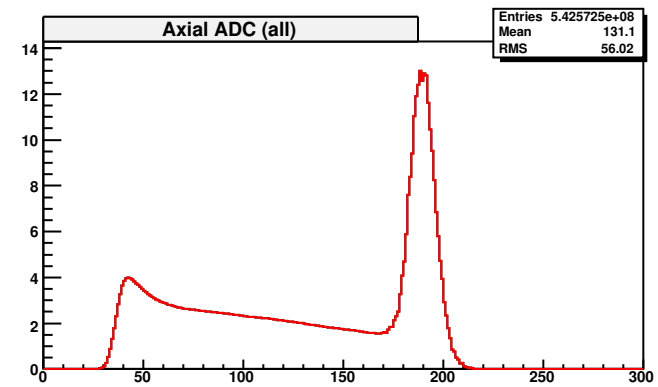


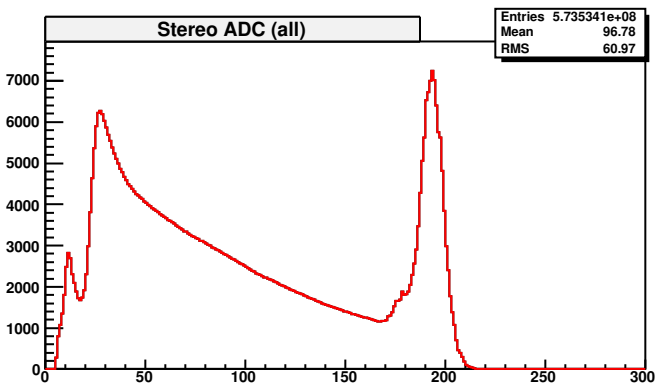


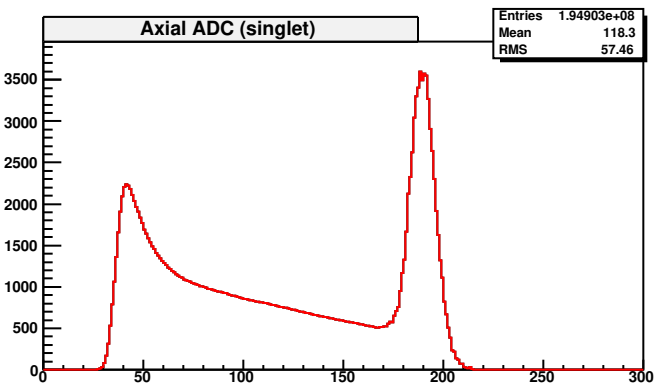
CFT Summary (All Clusters)

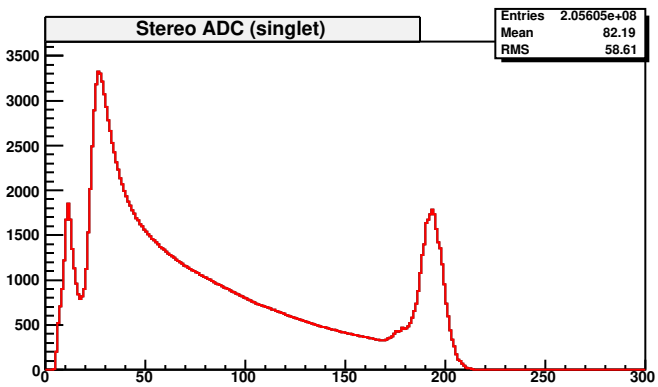


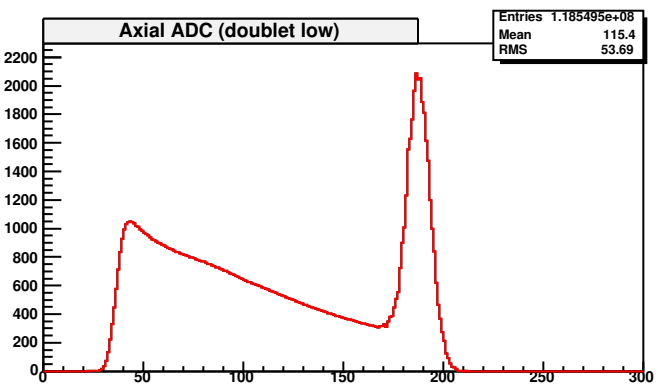
CFT Occupancy (All Clusters)

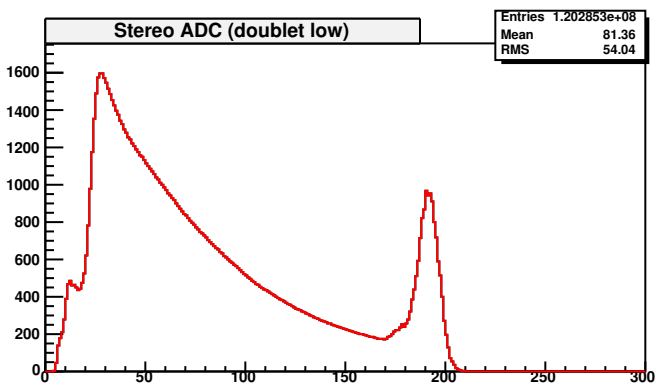


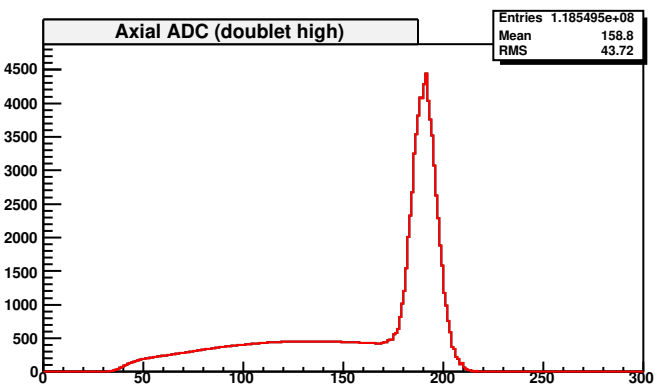


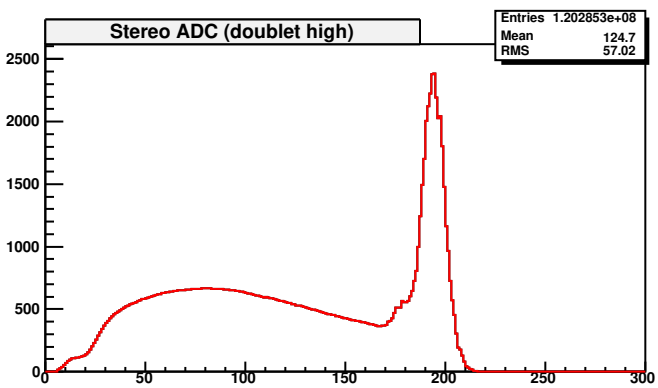




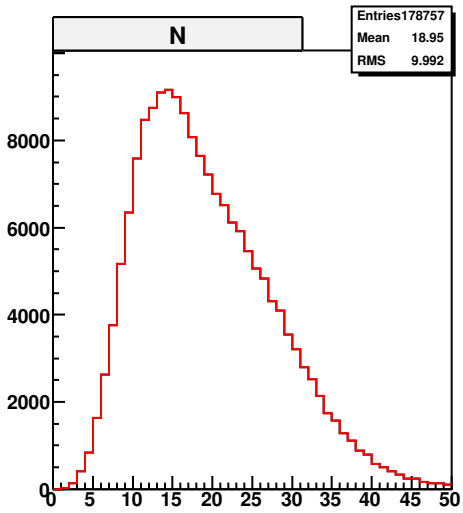


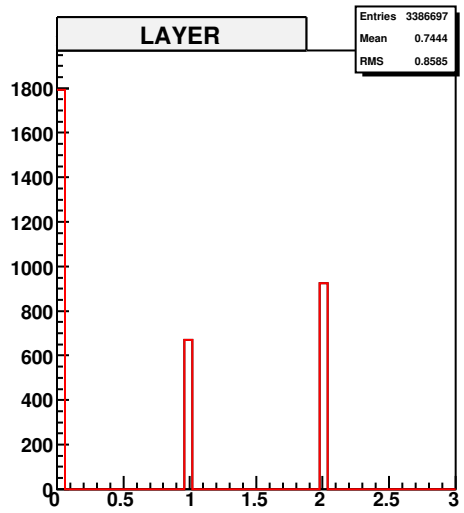


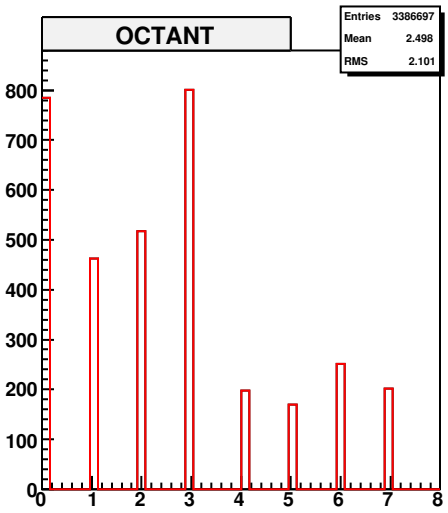


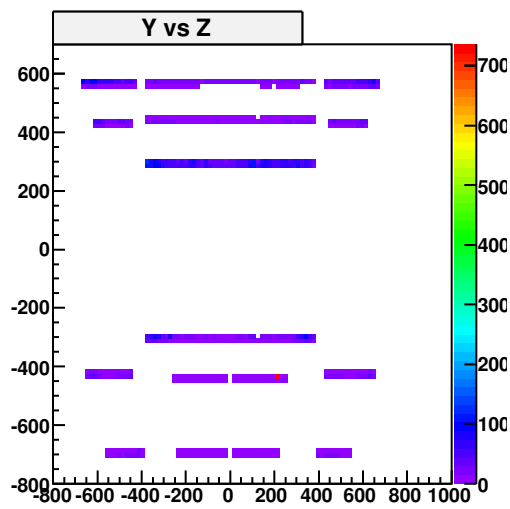


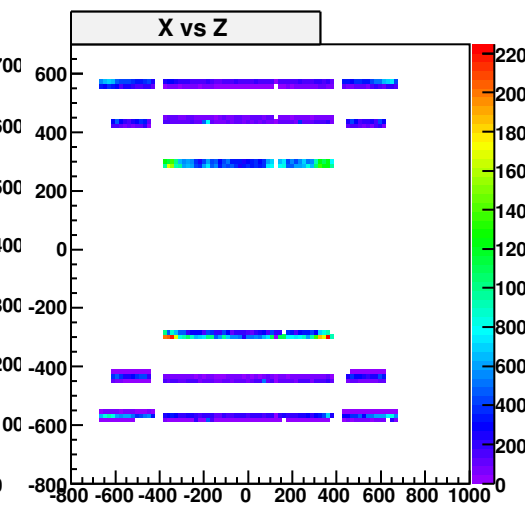
CFT ADC Summary (All Clusters)

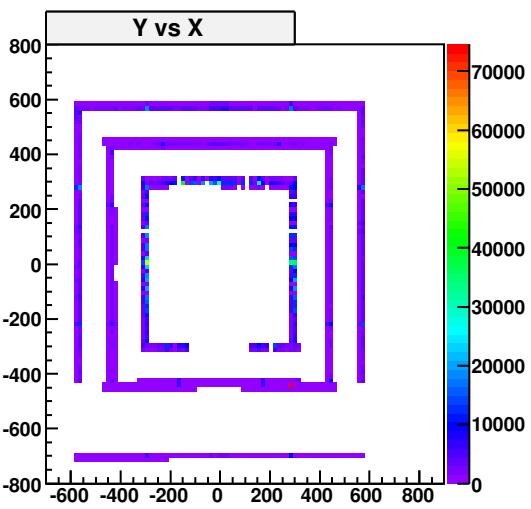

N
Entries 178757
Mean 18.95
RMS 9.992

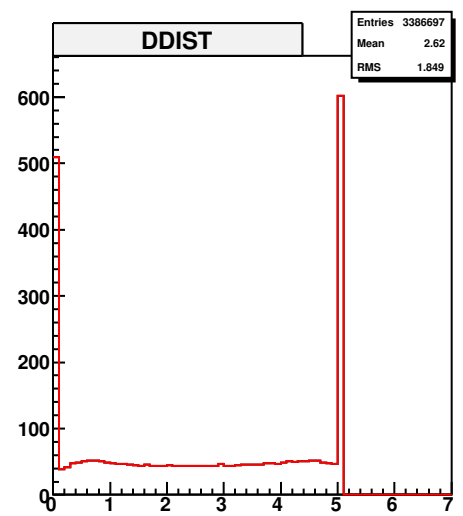

LAYER
Entries 3386697
Mean 0.7444
RMS 0.8585

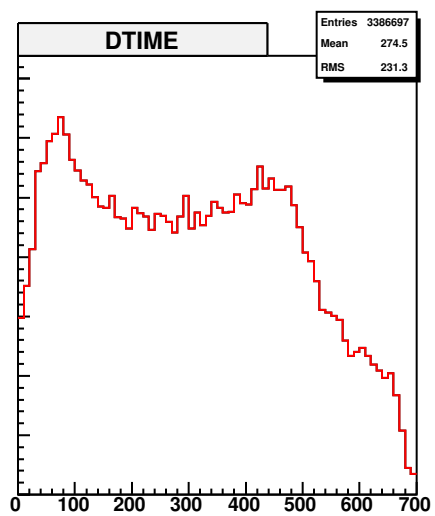

OCTANT
Entries 3386697
Mean 2.498
RMS 2.101


Y vs Z

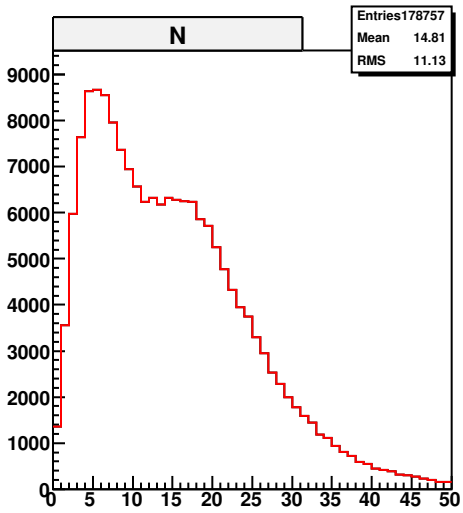

X vs Z

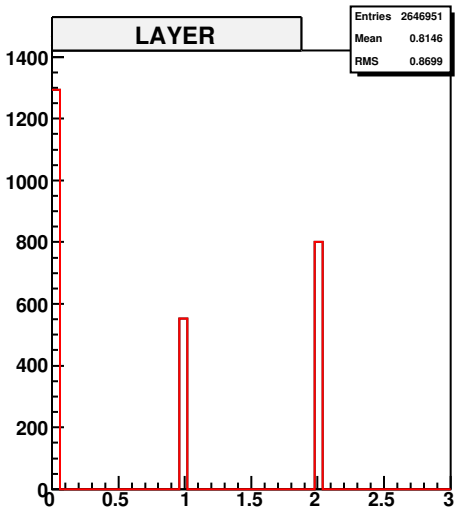

Y vs X

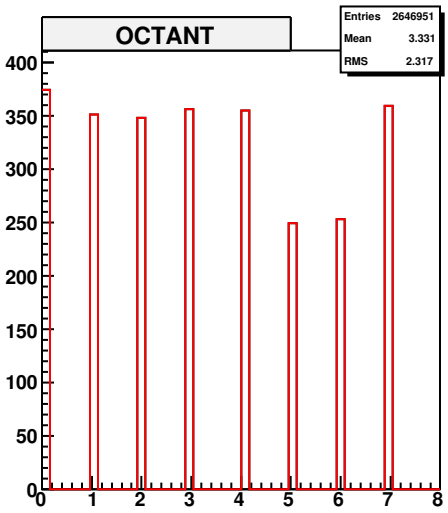

DDIST
Entries 3386697
Mean 2.62
RMS 1.849

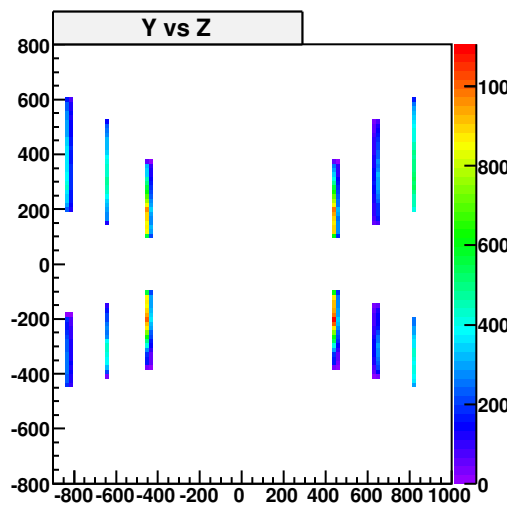

DTIME
Entries 3386697
Mean 274.5
RMS 231.3

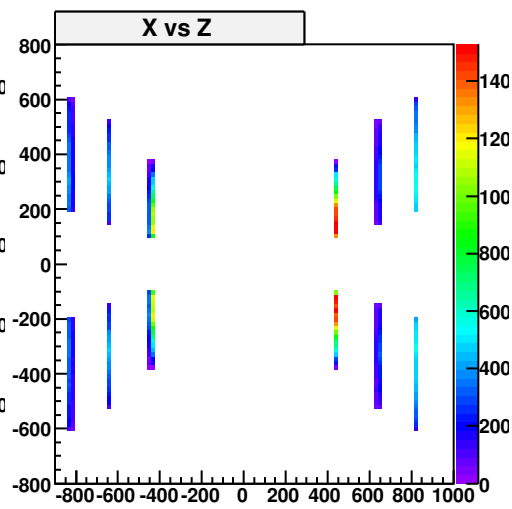
MuonPDT (All)

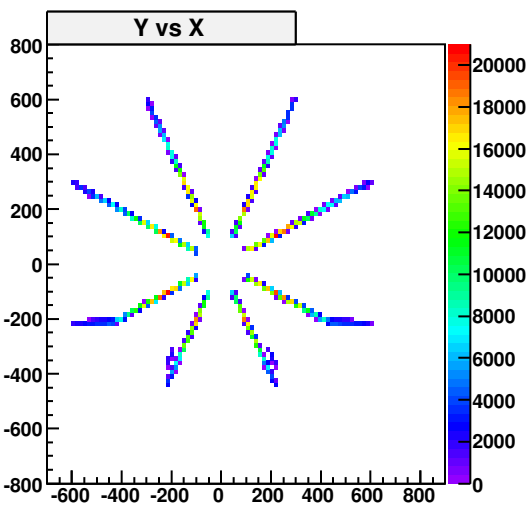

N
Entries 178757
Mean 14.81
RMS 11.13

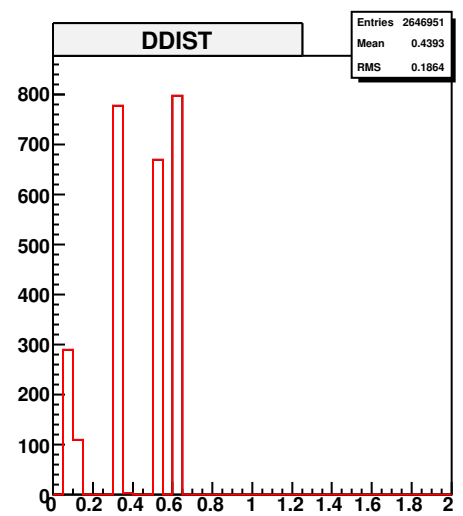

LAYER
Entries 2646951
Mean 0.8146
RMS 0.8699


OCTANT
Entries 2646951
Mean 3.331
RMS 2.317


Y vs Z


X vs Z


Y vs X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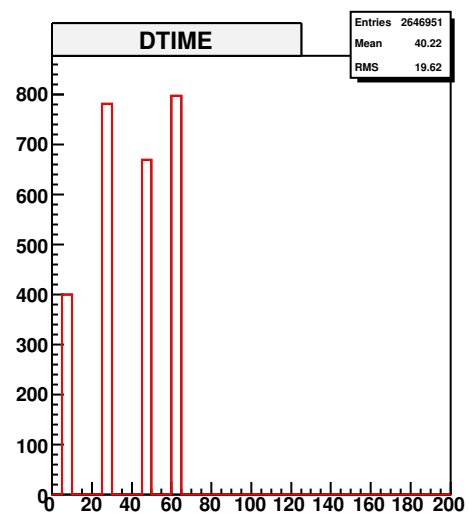
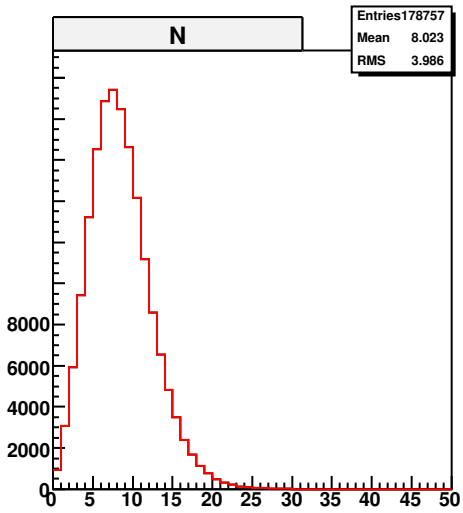
Mean 0.4393
RMS 0.1864


DTIME
Entries 2646951
Mean 40.22
RMS 19.62

MuonMDT (All)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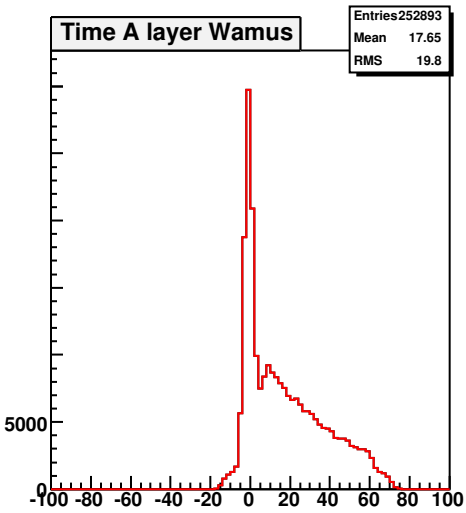
Mean 8.023
RMS 3.986


Time A layer Wamus
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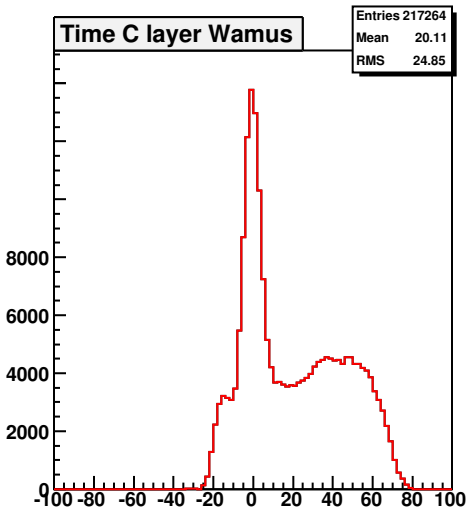
Time C layer Wamus
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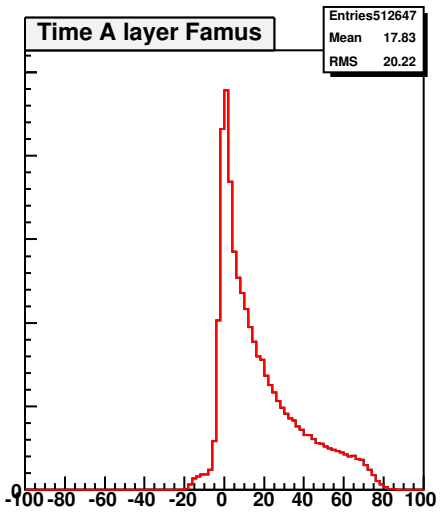
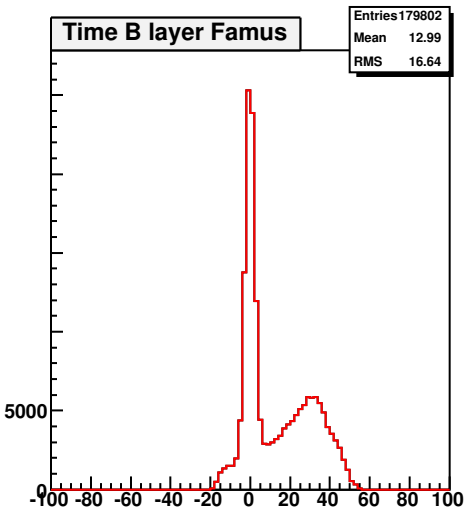
Mean 20.11
RMS 24.85


Time A layer Famus
Entries512647
Mean 17.83
RMS 20.22


Time B layer Famus
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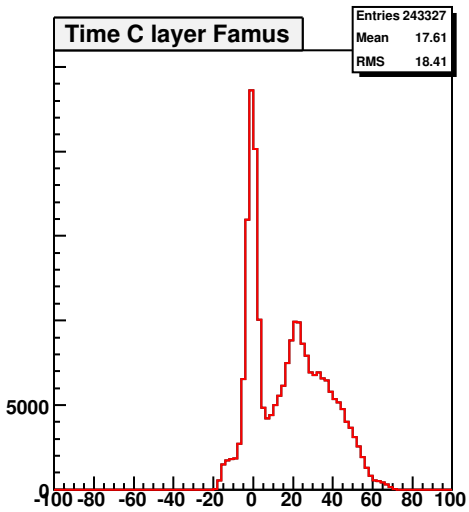
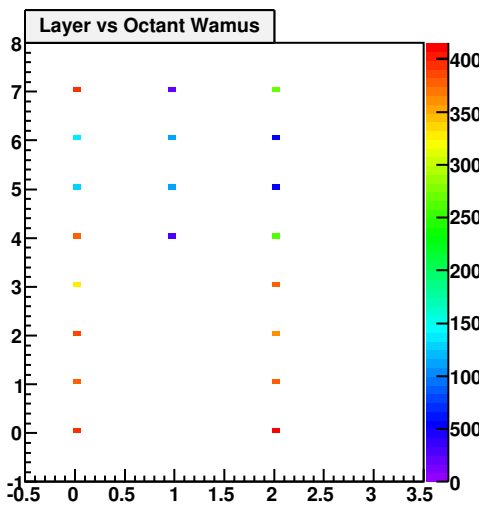
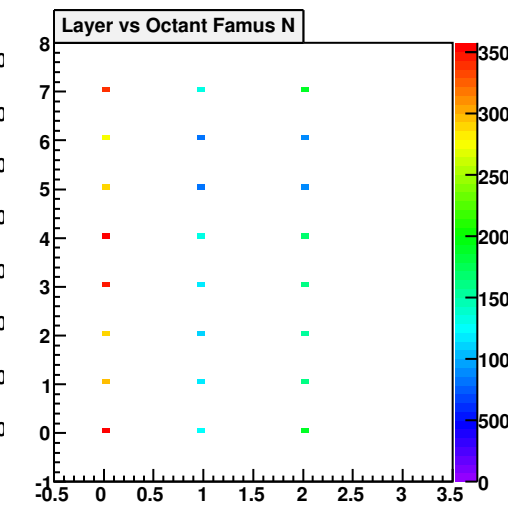
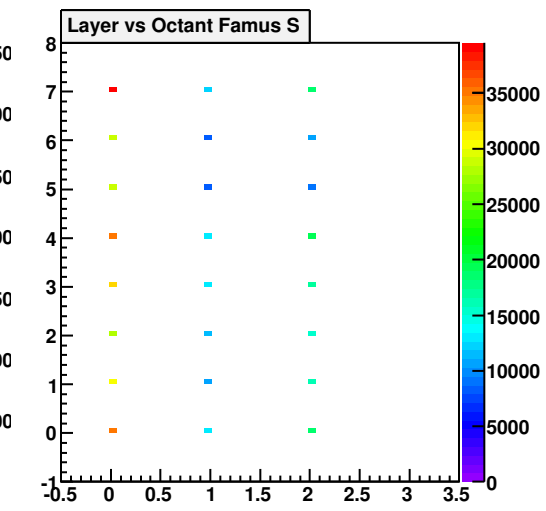
Mean 12.99
RMS 16.64

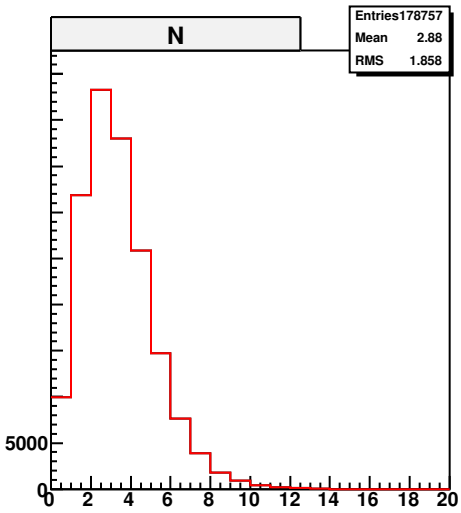

Time C layer Famus
Entries 243327
Mean 17.61
RMS 18.41

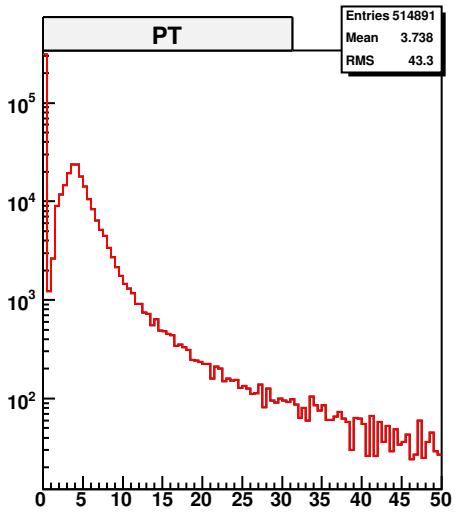

Layer vs Octant Wamus

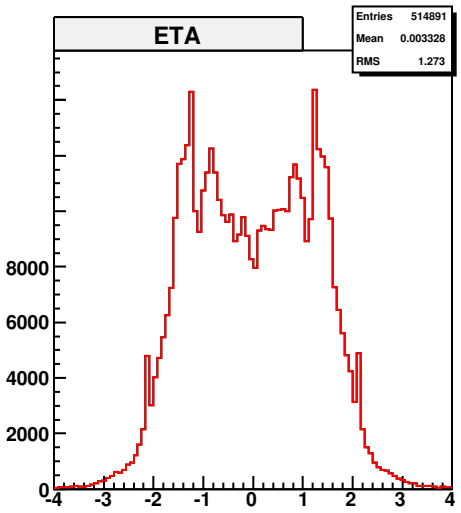

Layer vs Octant Famus N

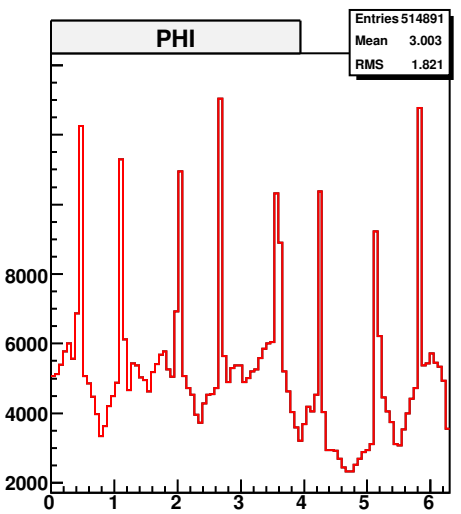

Layer vs Octant Famus S

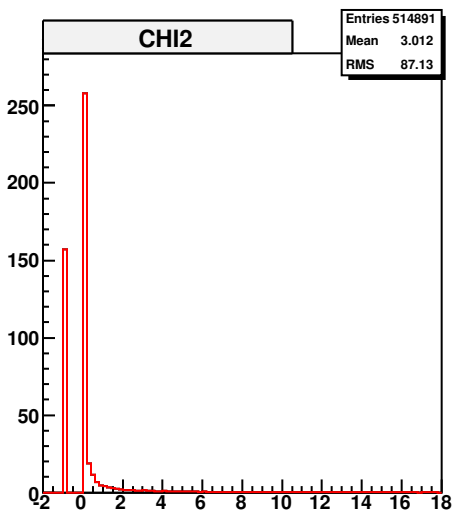
MuonMSC (All)

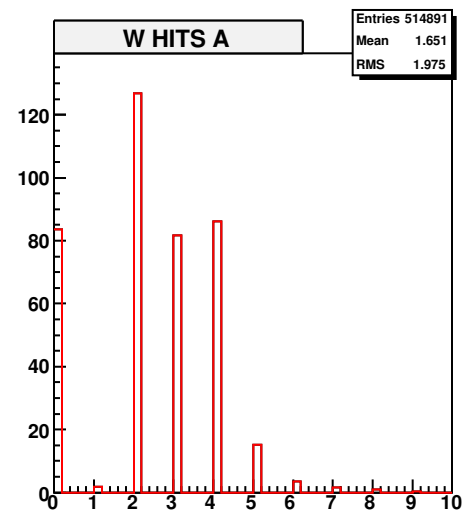


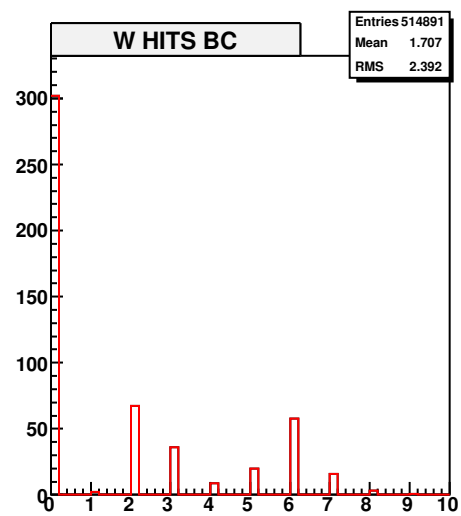


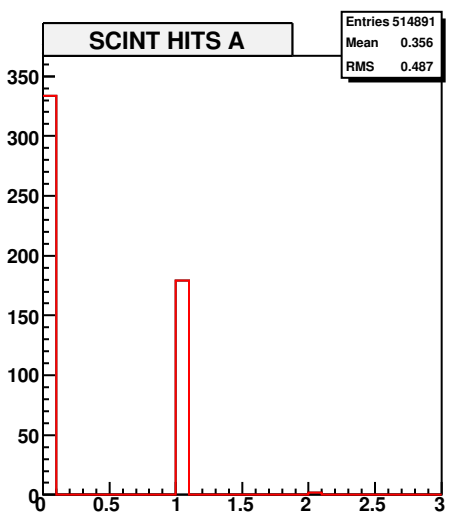


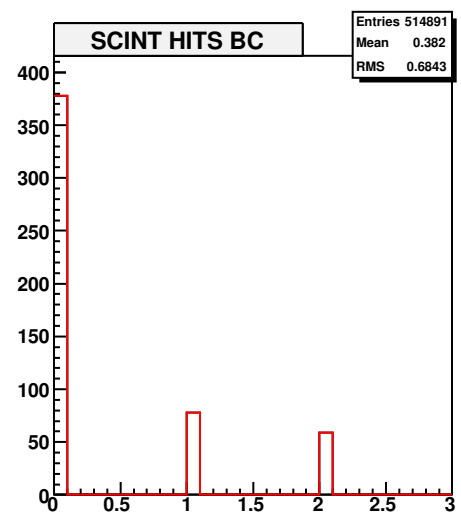




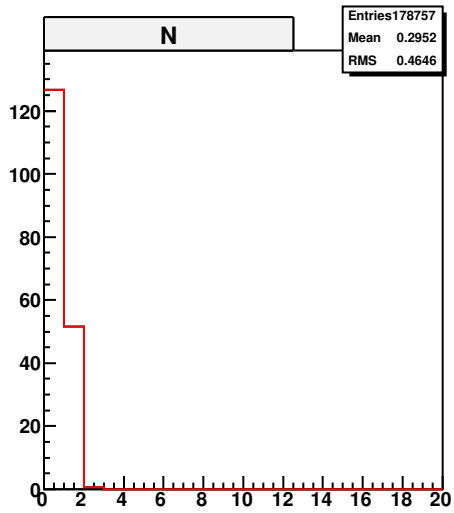


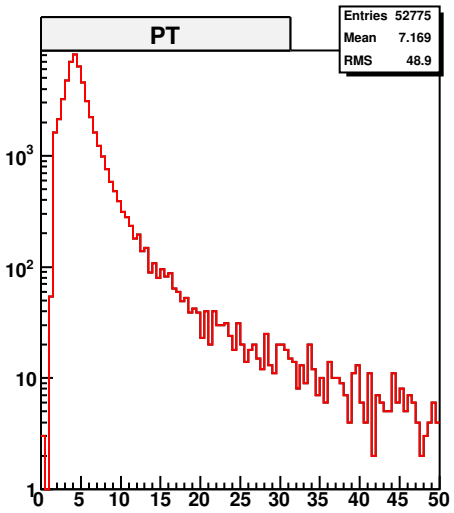


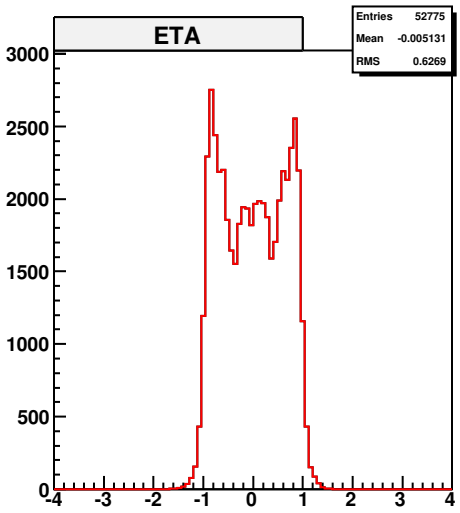


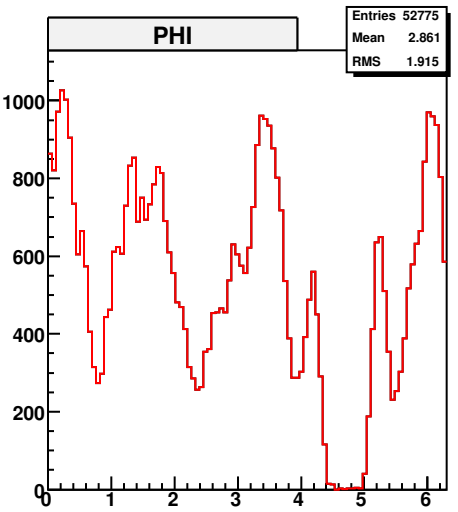


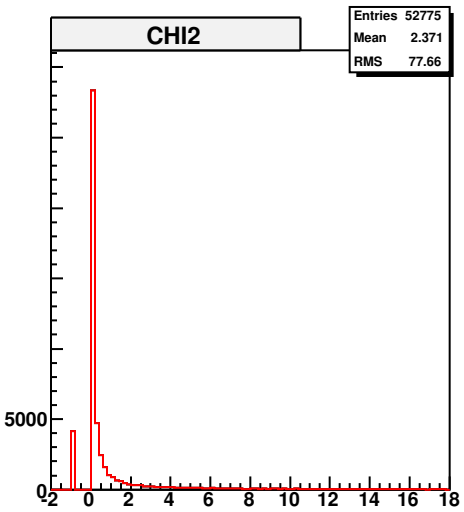
Muon Local Tracks (All)

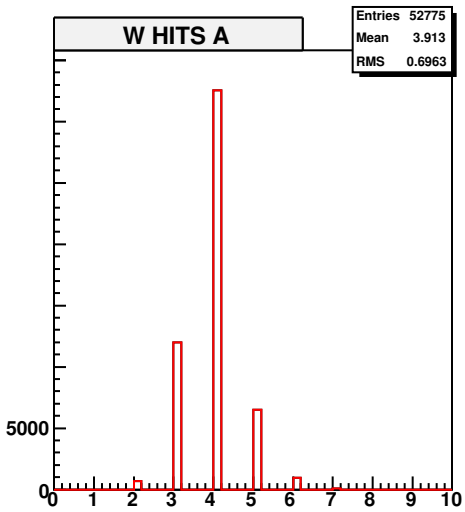


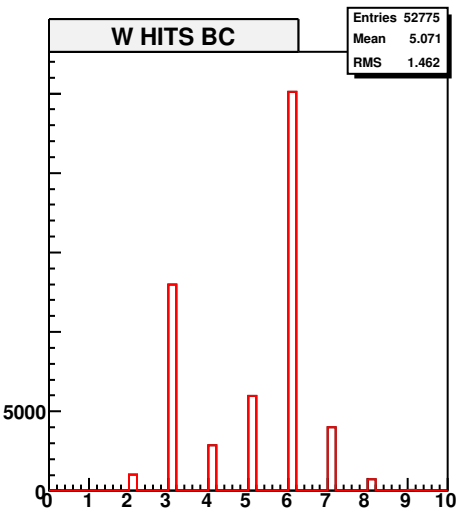


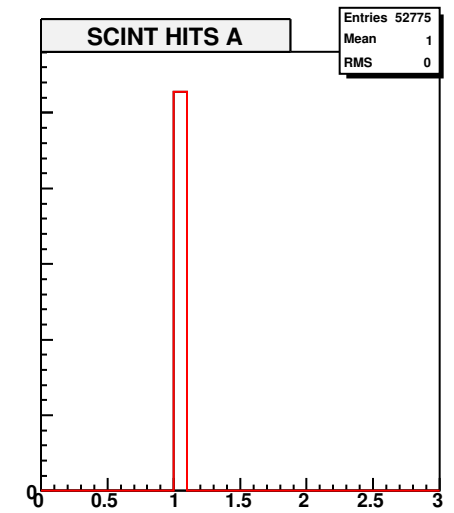


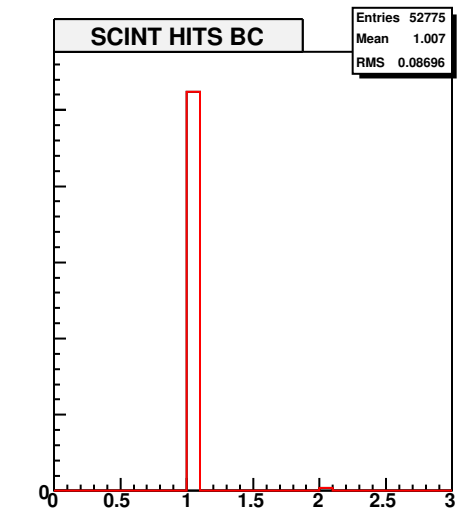












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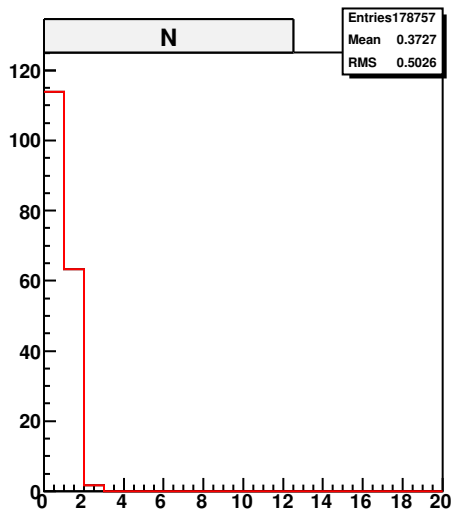
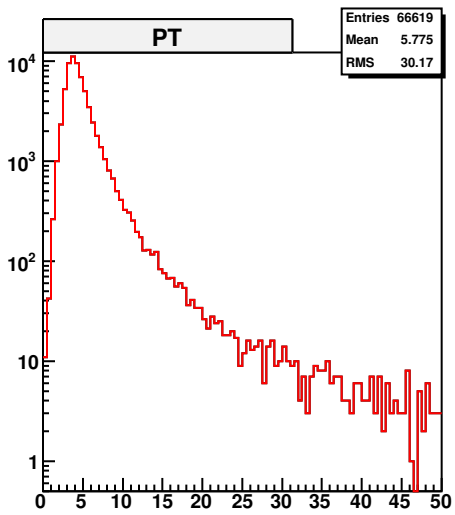
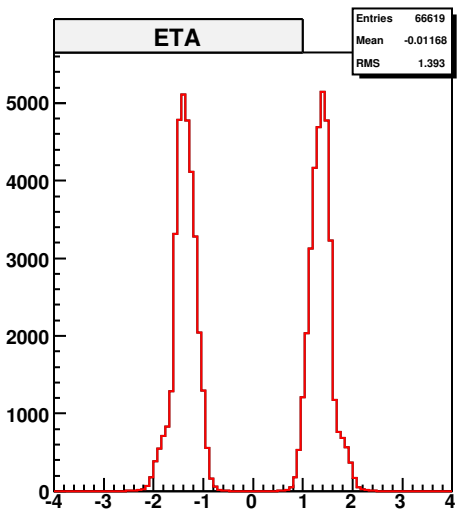
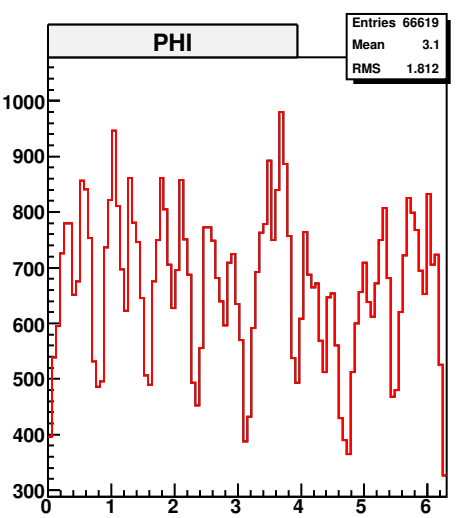
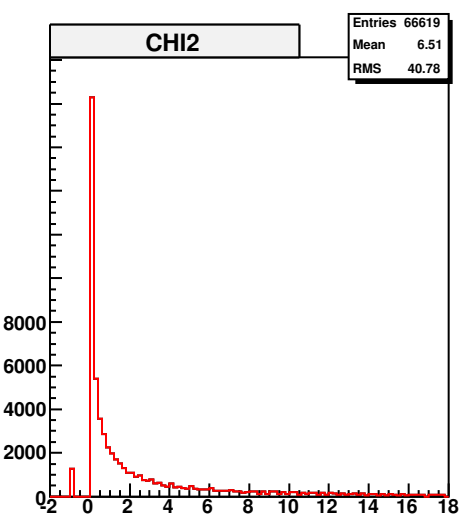
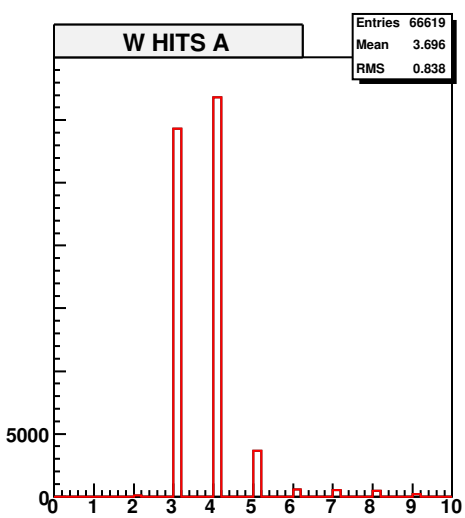


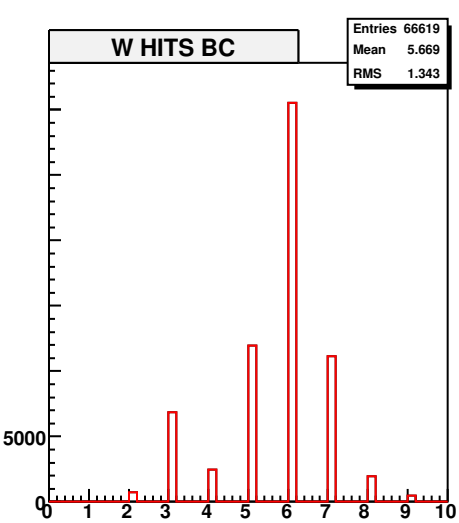


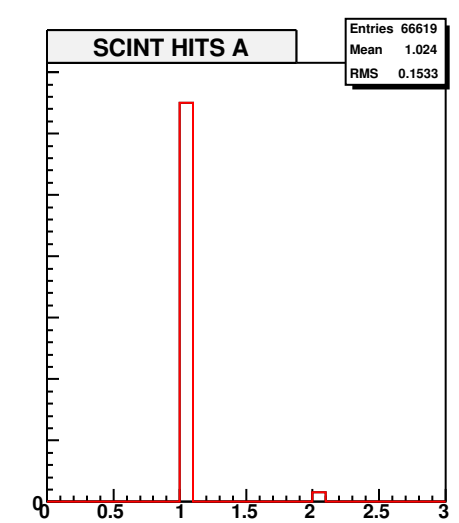


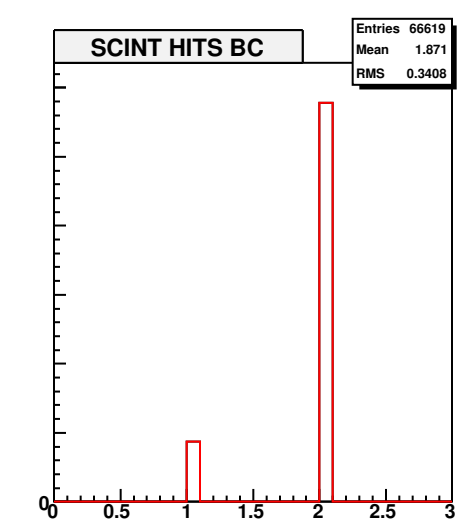




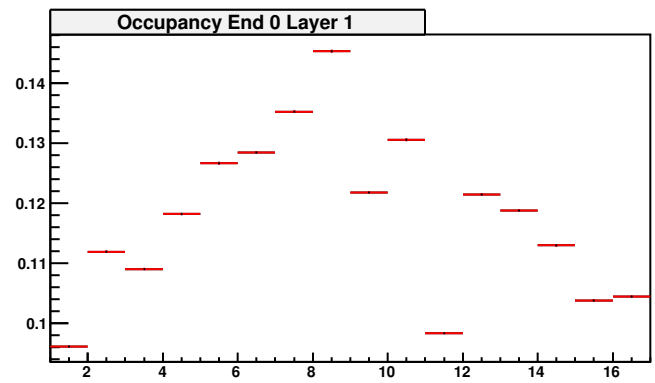


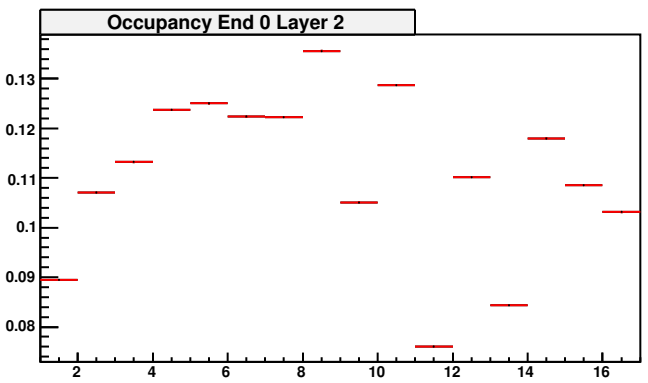


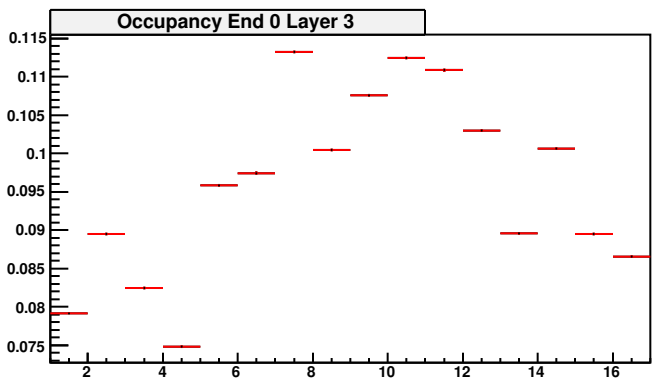


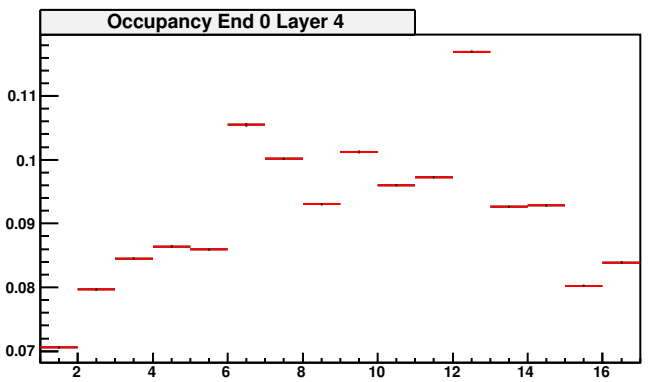


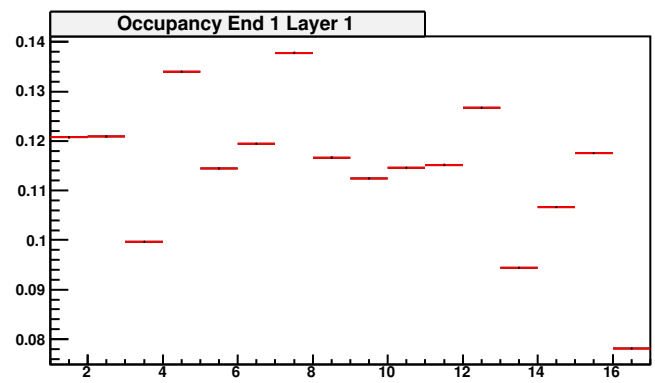
Muon Local Tracks (MediumFamus)

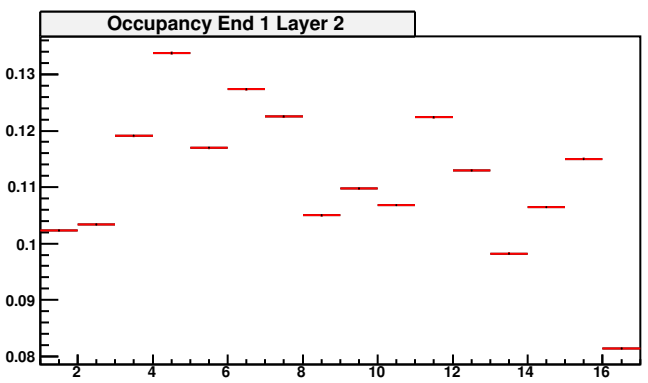


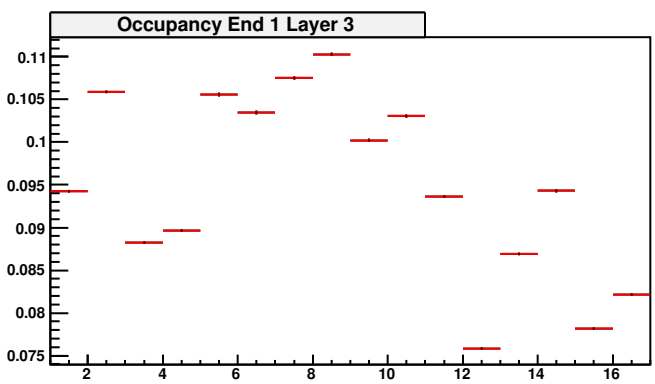


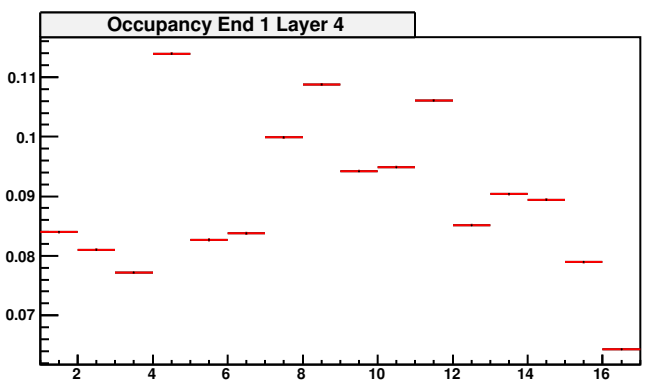




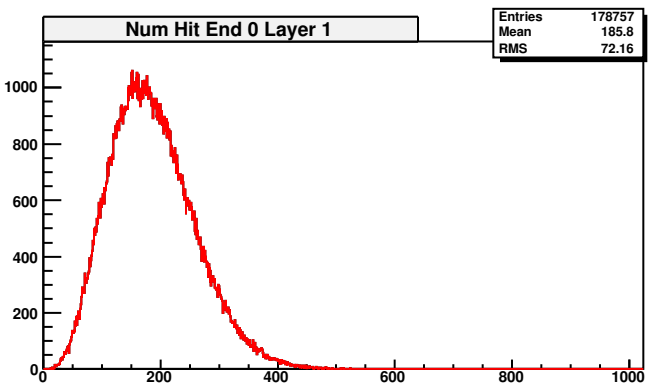


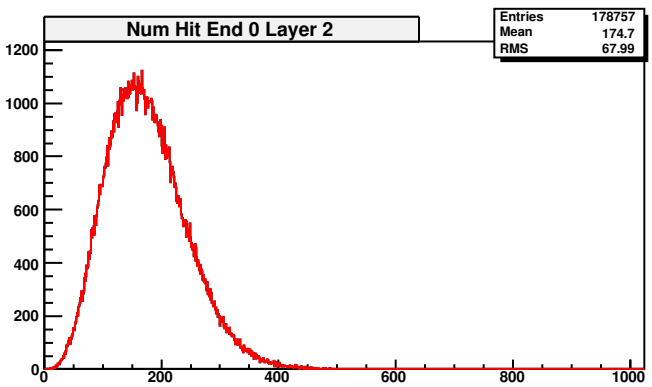


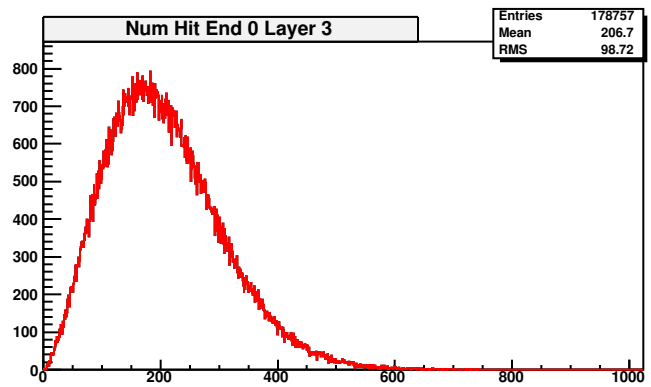


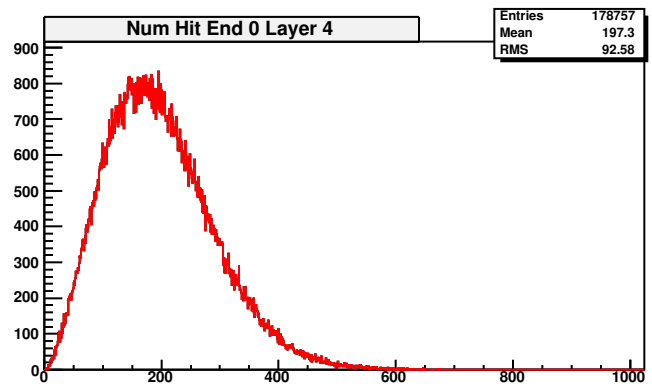


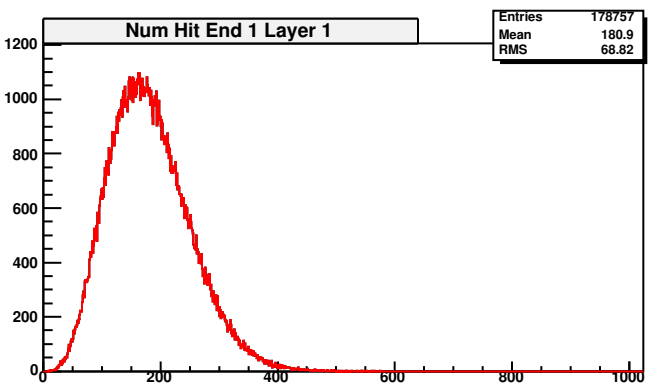
FPS Hit Occupancy (All)

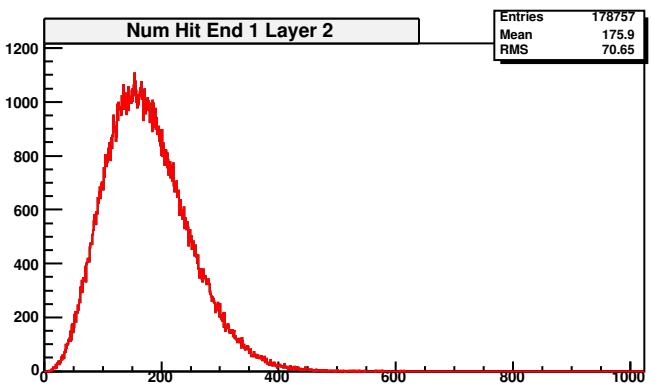


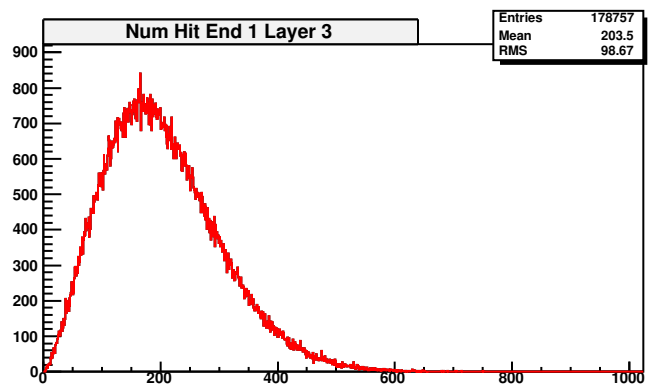


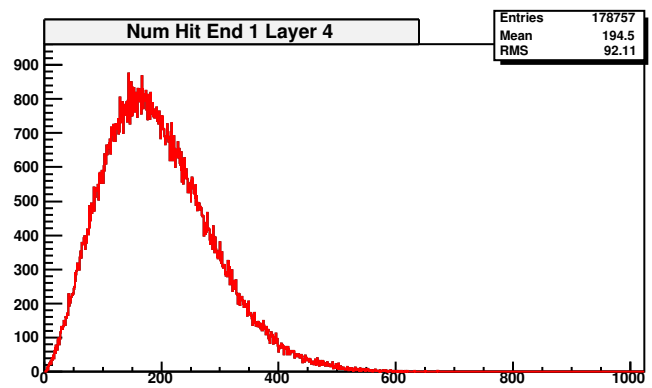




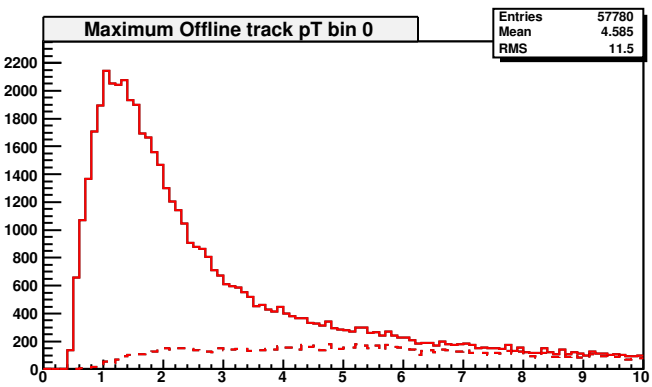


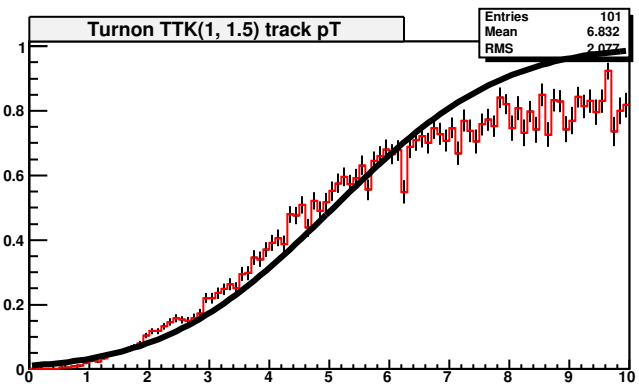


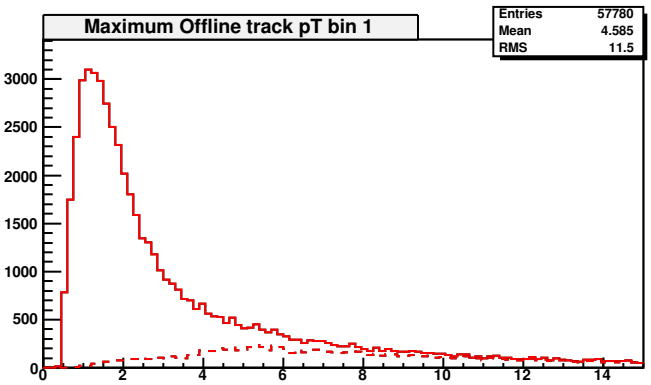


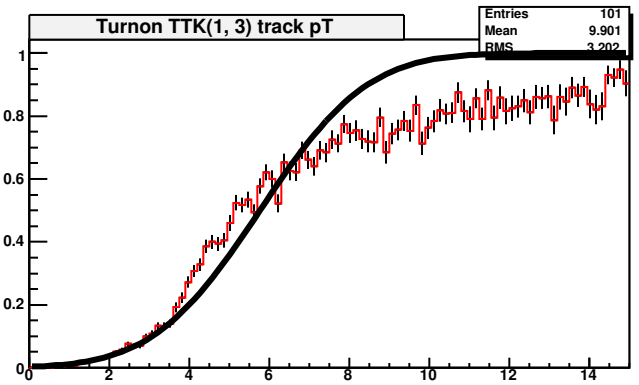


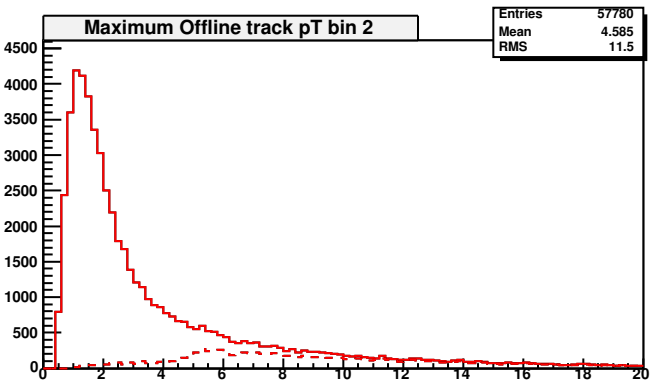
FPS Number of Hits (All)

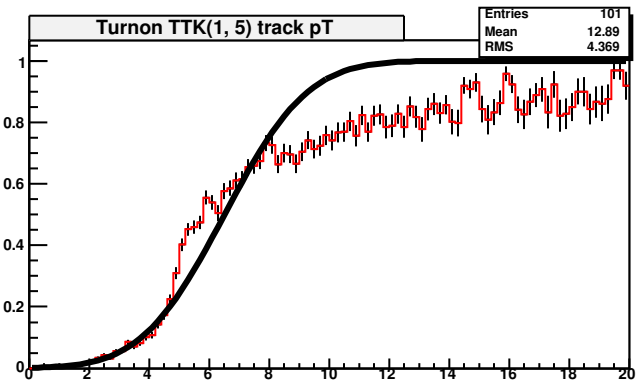


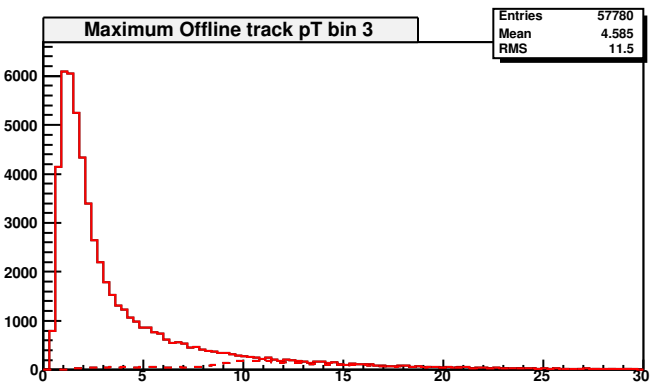


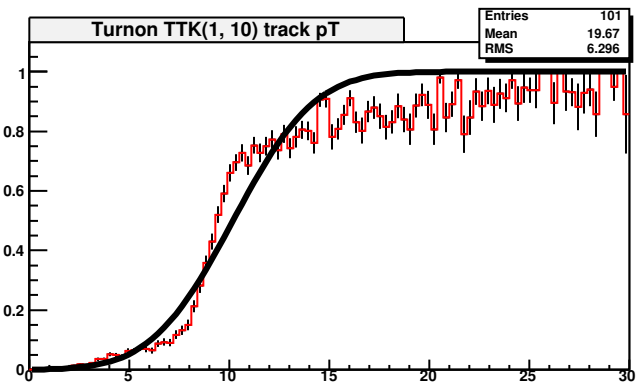




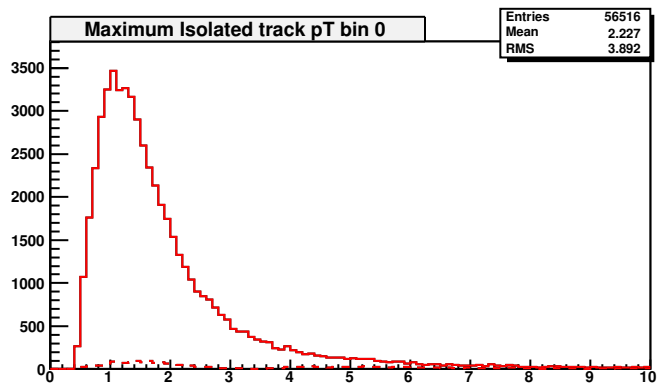


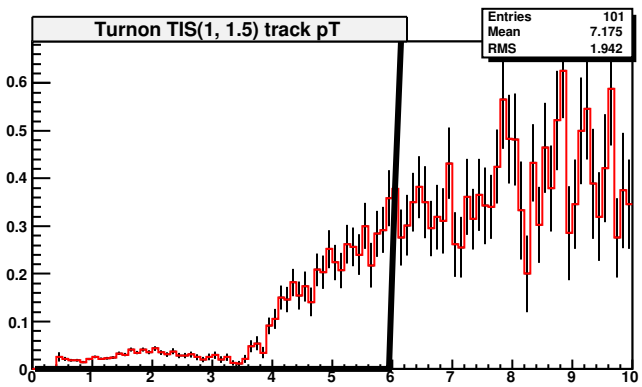


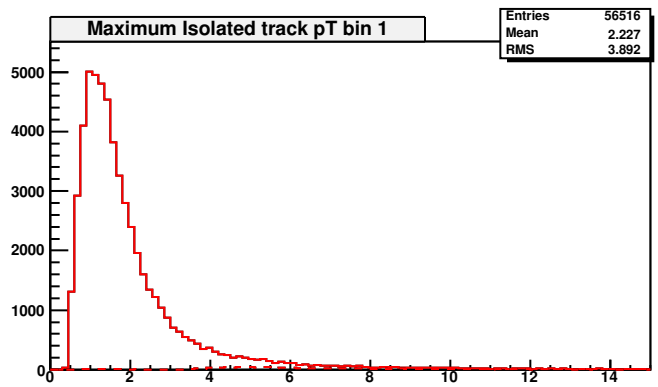


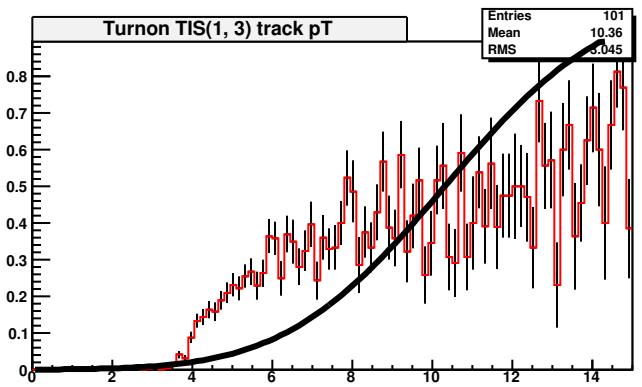


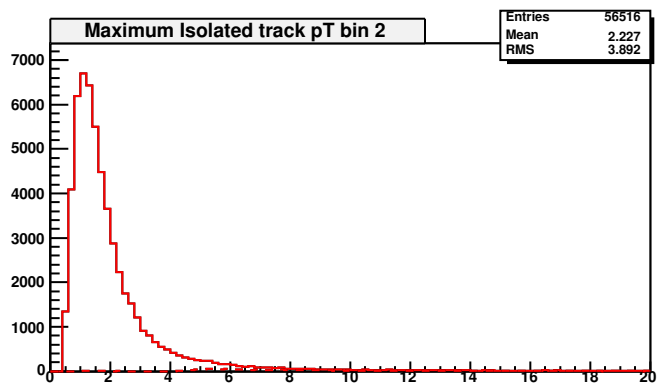
TTK Turnon curves (L1CTT All)

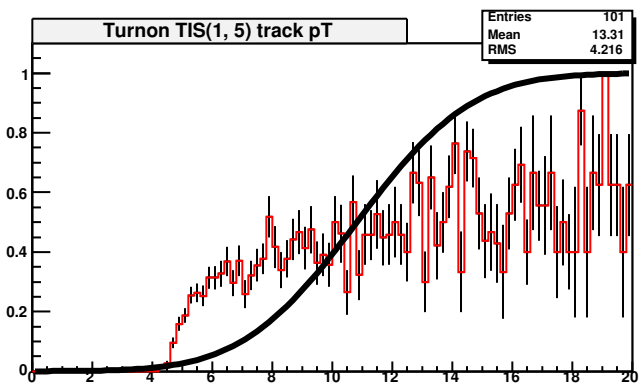


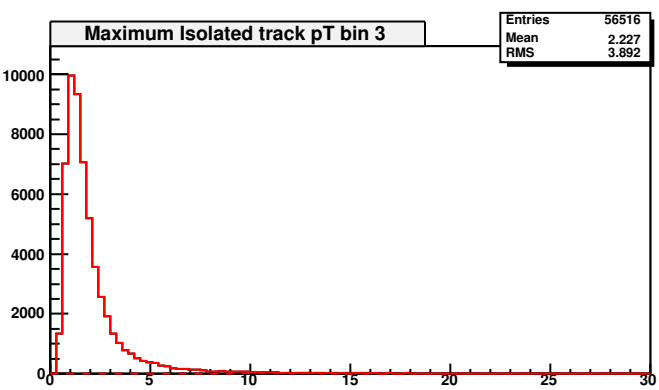


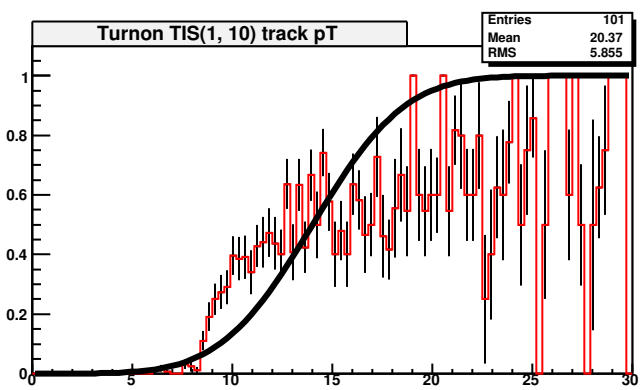




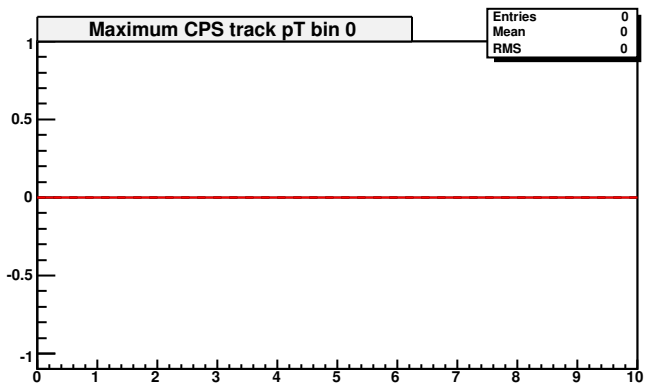


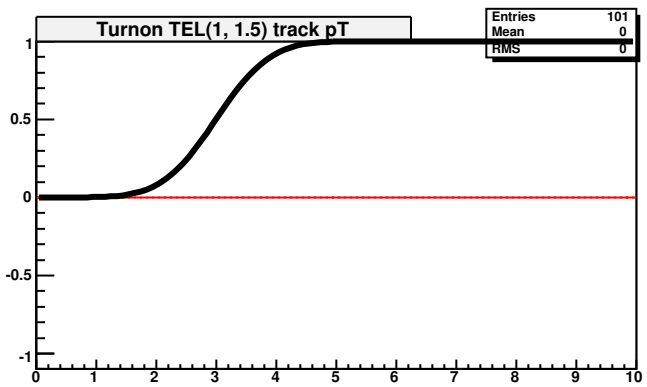


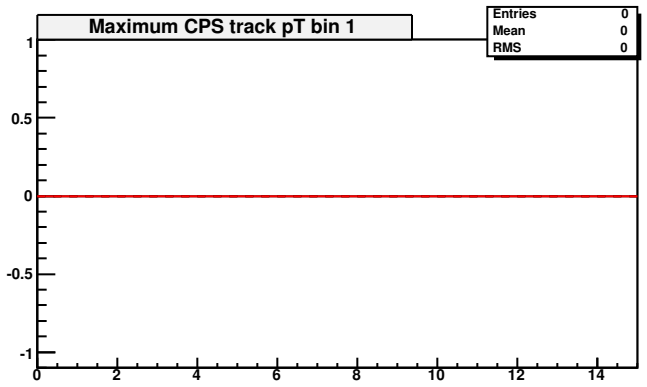


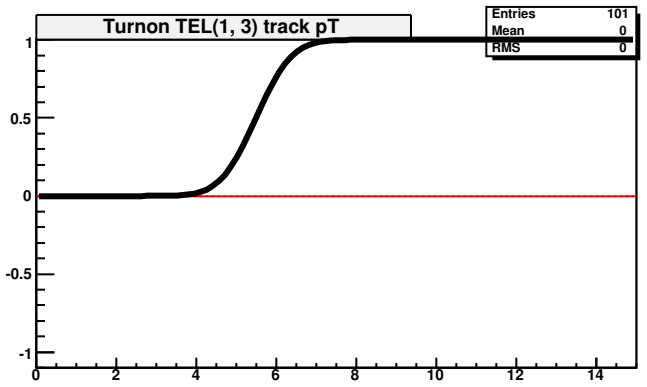


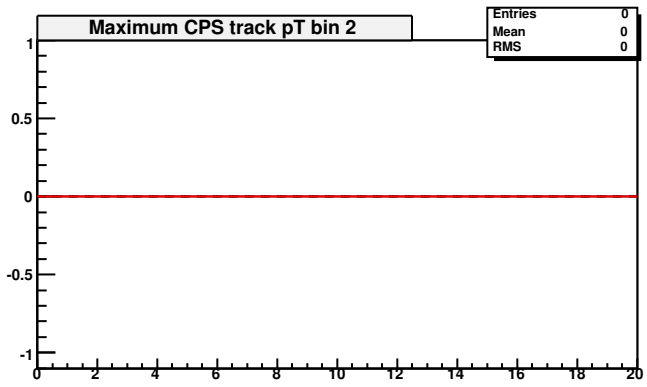
TIS Turnon curves (L1CTT All)

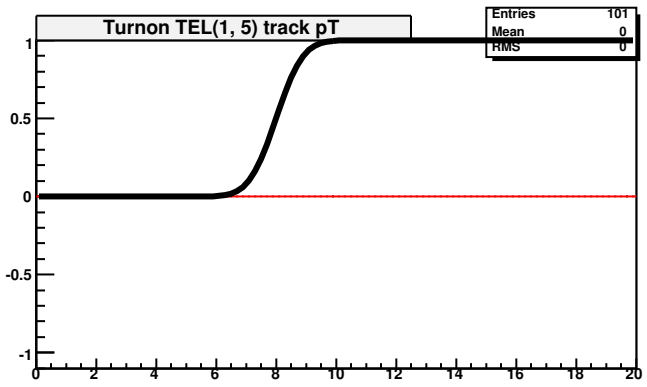


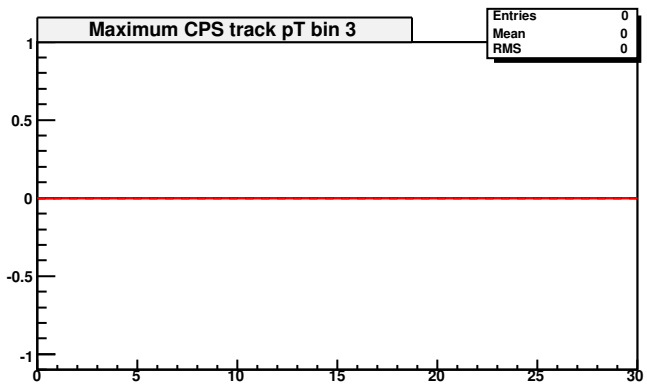


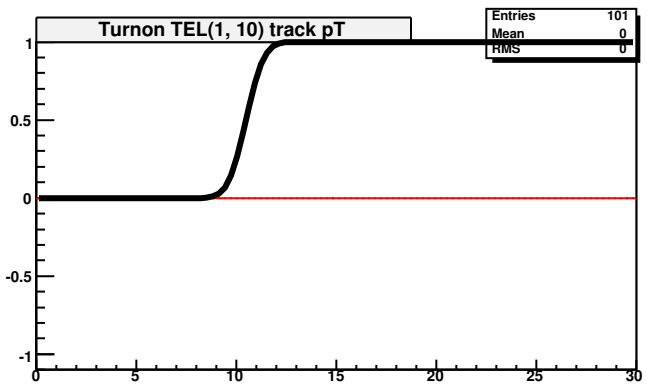




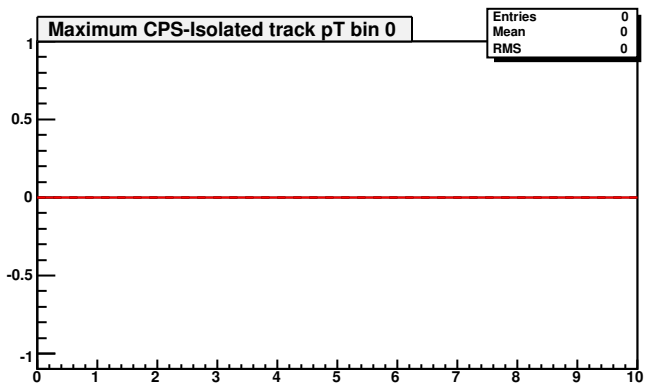


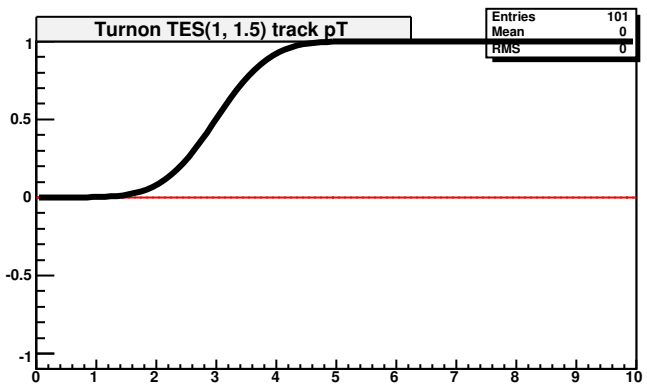


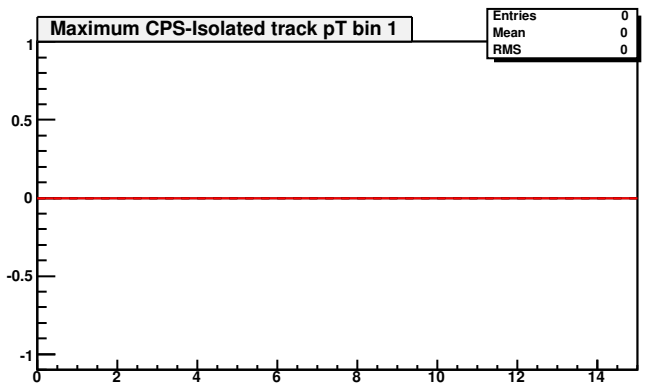


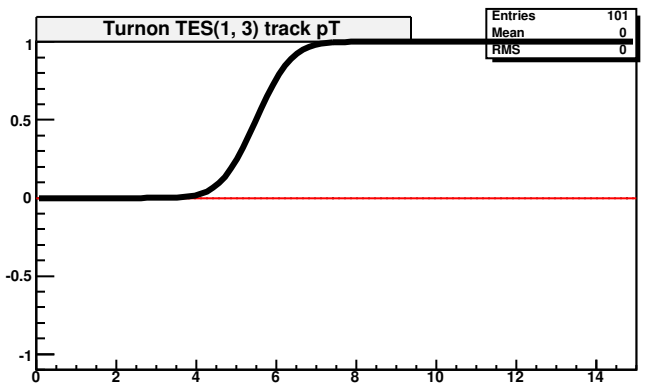


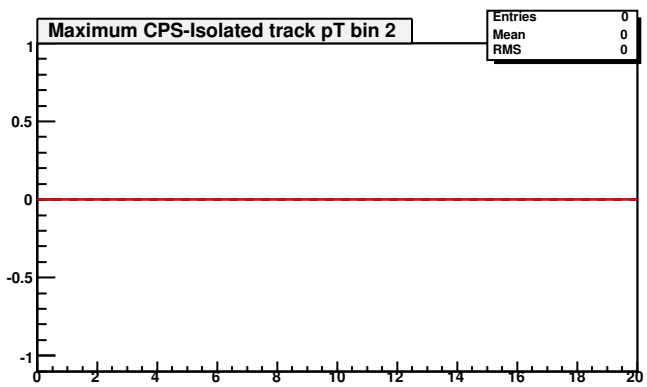
TEL Turnon curves (L1CTT All)

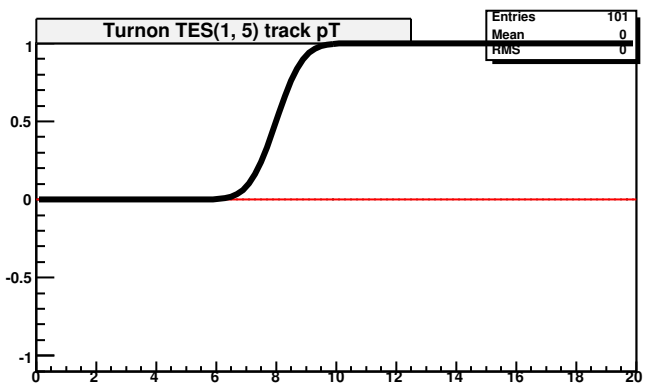


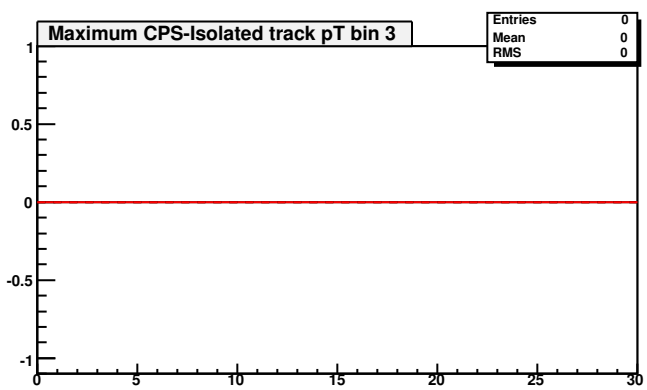


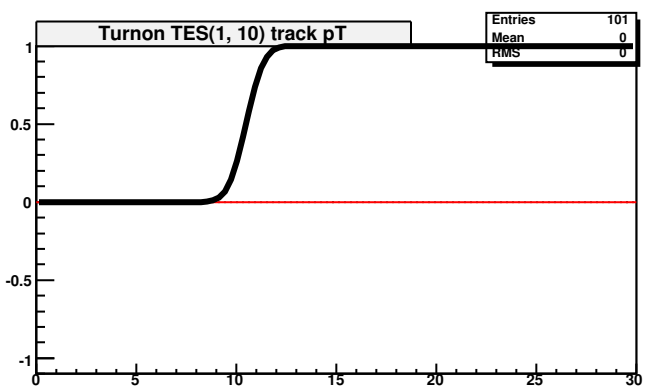




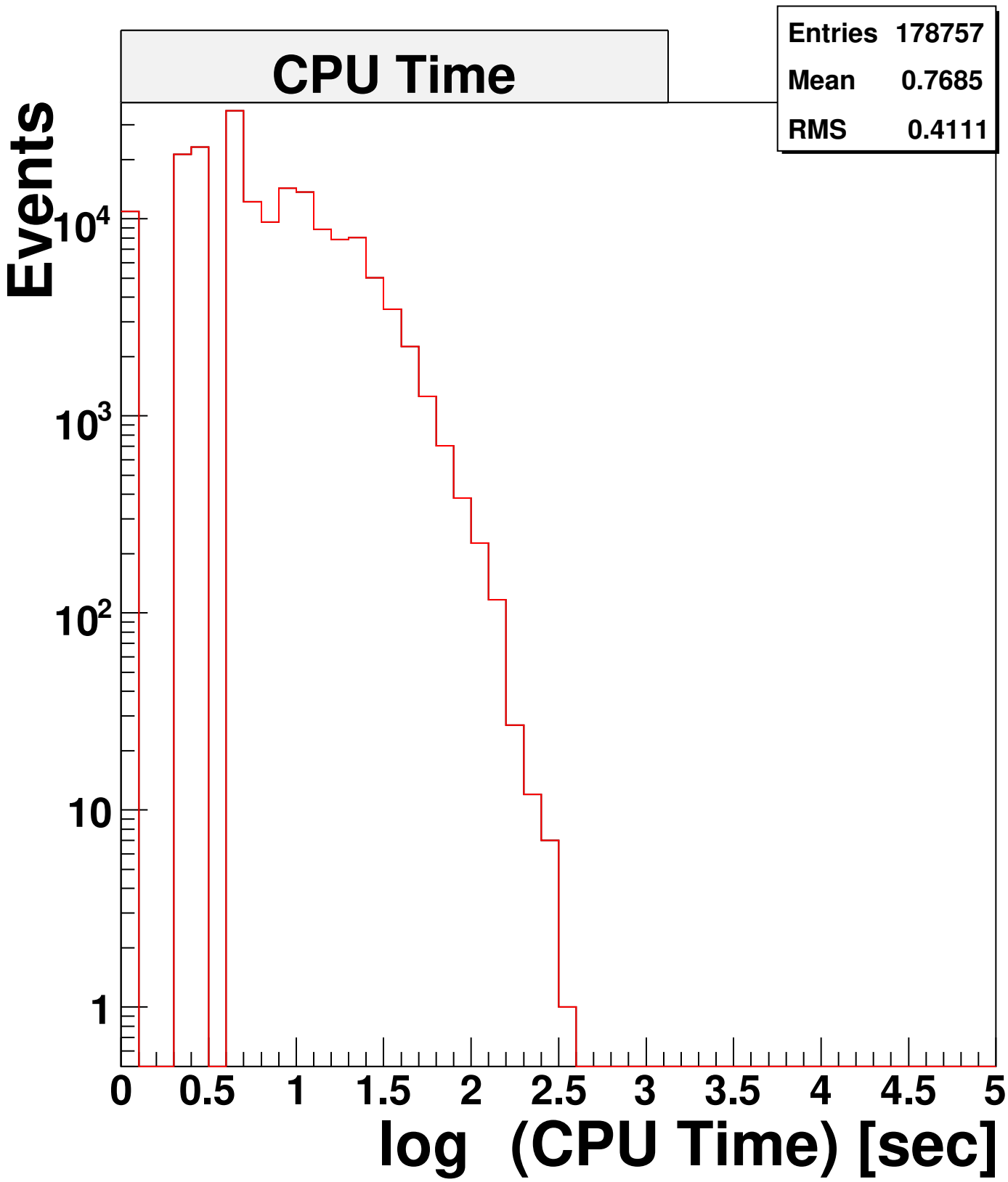








TES Turnon curves (L1CTT All)



RECO Performance (Timing)