dayset-2006-08-29-all_3-224656-0_certification_20070
../../d0farm/dayset-2006-08-29-all_3-224656-0_certifica

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Page 4: Tracks Hits (All)
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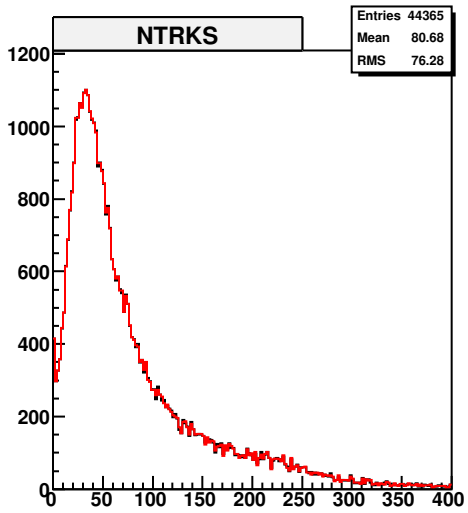
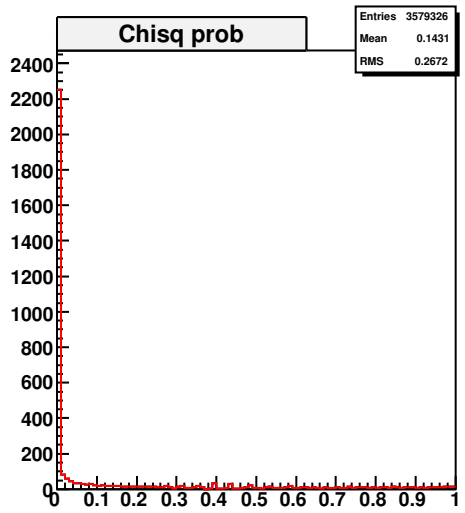
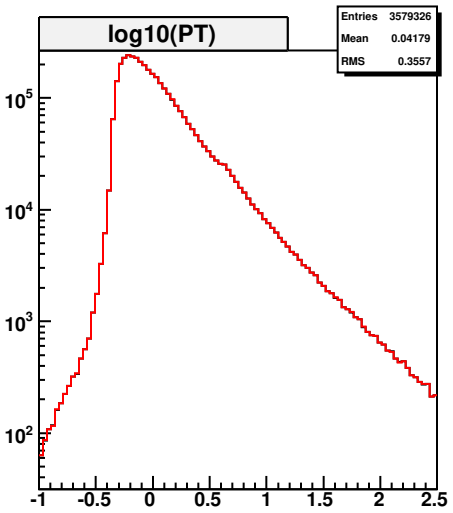
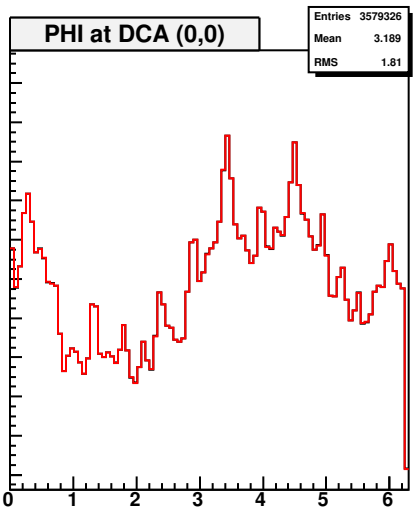
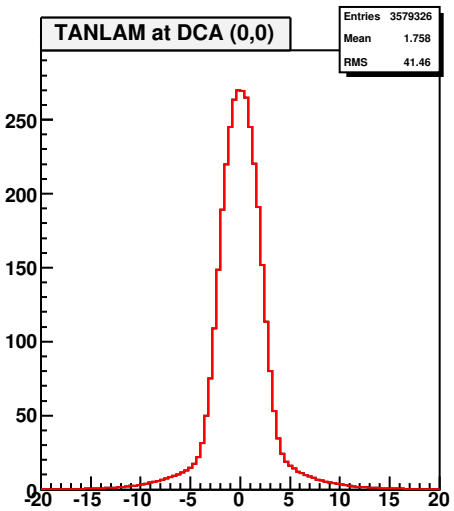
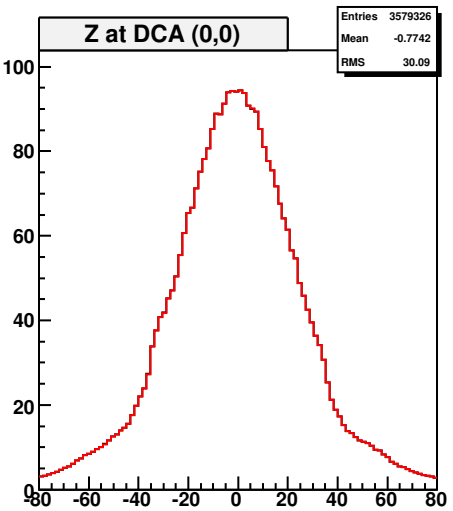

NTRKS
Entries 44365
Mean 80.68
RMS 76.28

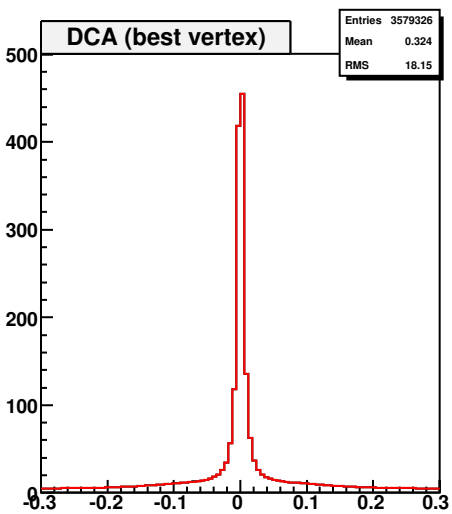

Chisq prob
Entries 3579326
Mean 0.1431
RMS 0.2672

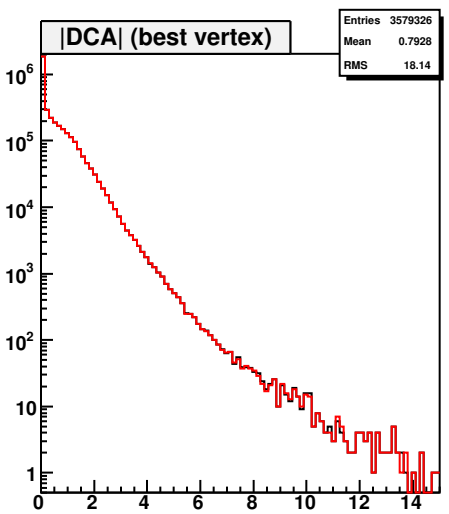

log10(PT)
Entries 3579326
Mean 0.04179
RMS 0.3557

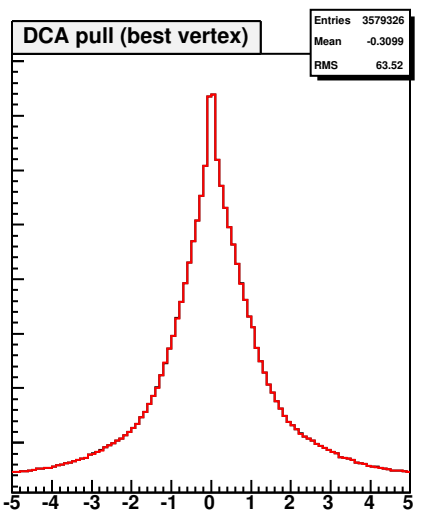

PHI at DCA (0,0)
Entries 3579326
Mean 3.189
RMS 1.81


TANLAM at DCA (0,0)
Entries 3579326
Mean 1.758
RMS 41.46

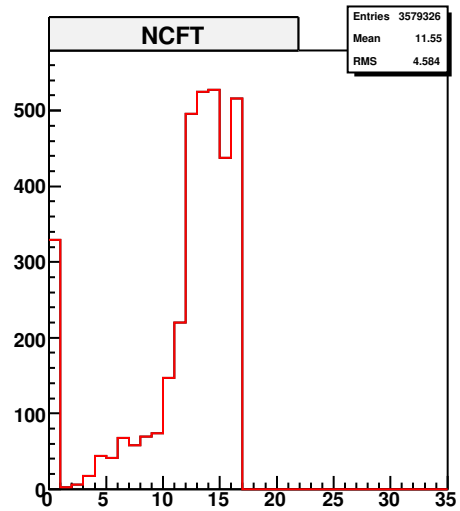

Z at DCA (0,0)
Entries 3579326
Mean -0.7742
RMS 30.09

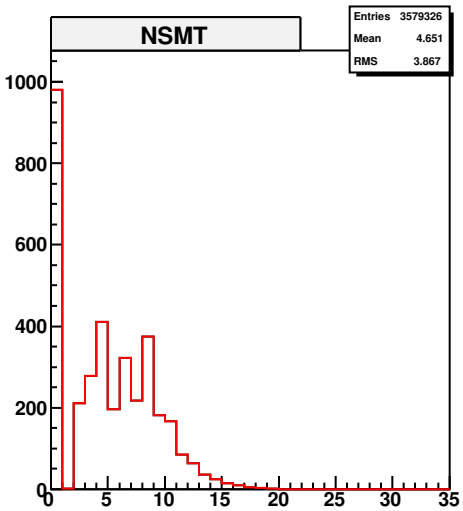

DCA (best vertex)
Entries 3579326
Mean 0.324
RMS 18.15

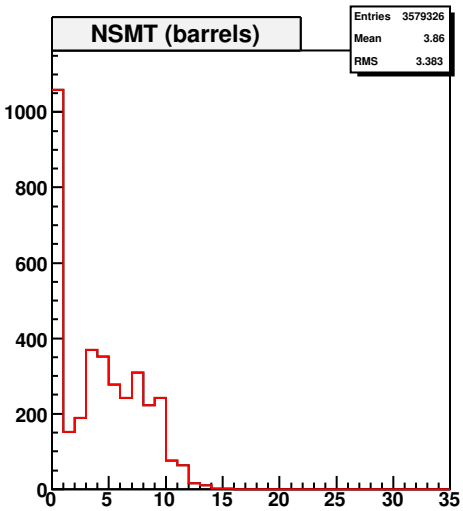

|DCA| (best vertex)
Entries 3579326
Mean 0.7928
RMS 18.14

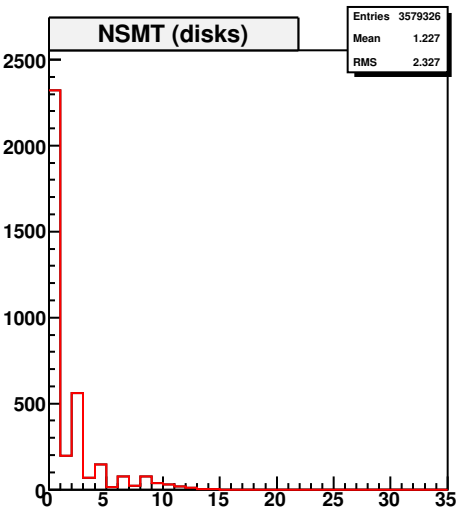

DCA pull (best vertex)
Entries 3579326
Mean -0.3099
RMS 63.52

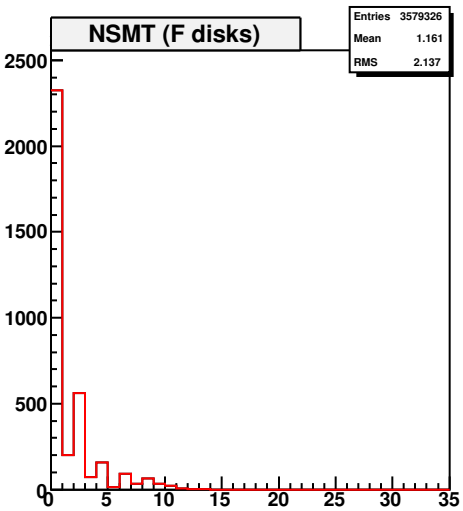
Tracks (All)

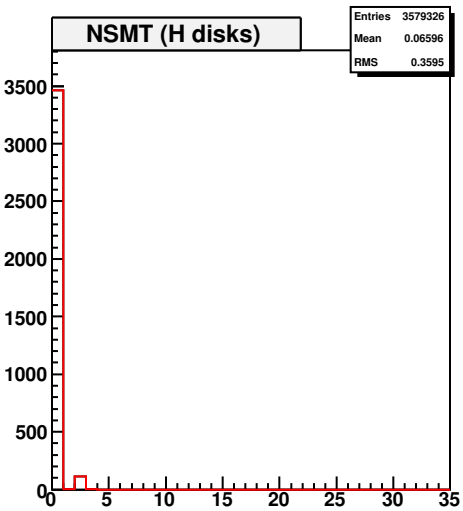


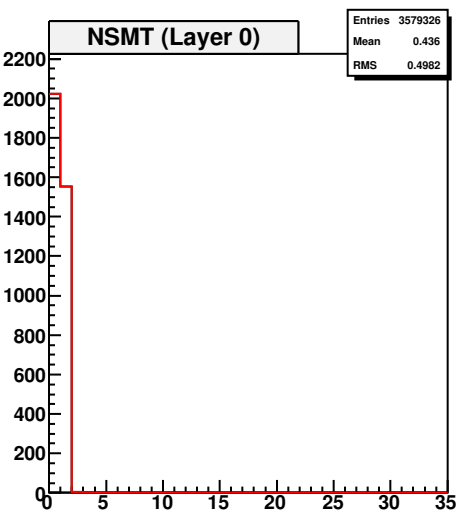




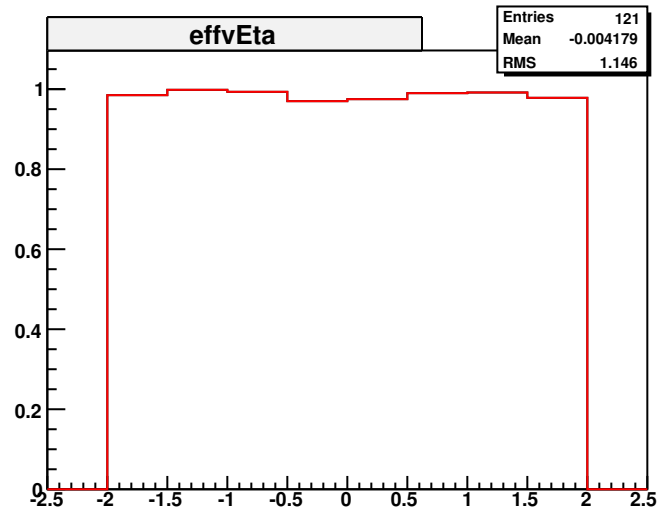


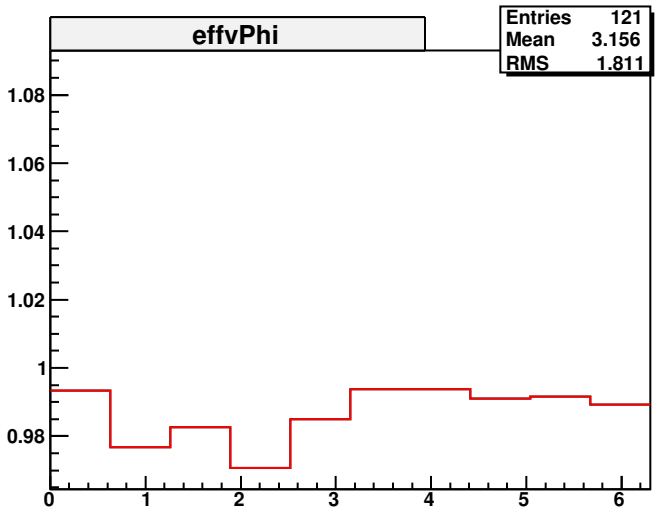


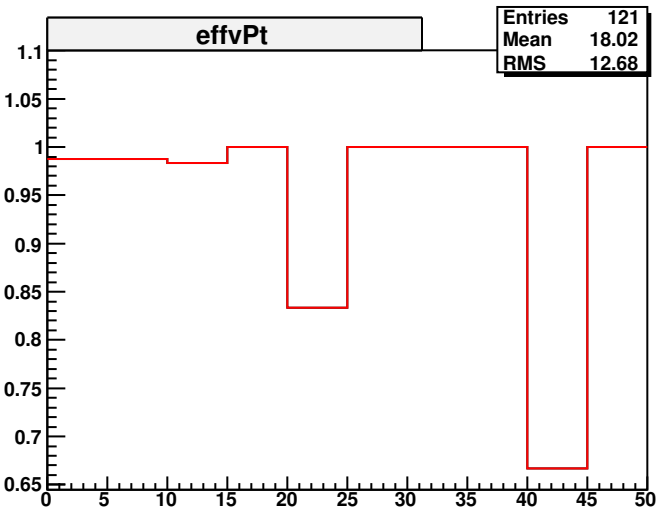


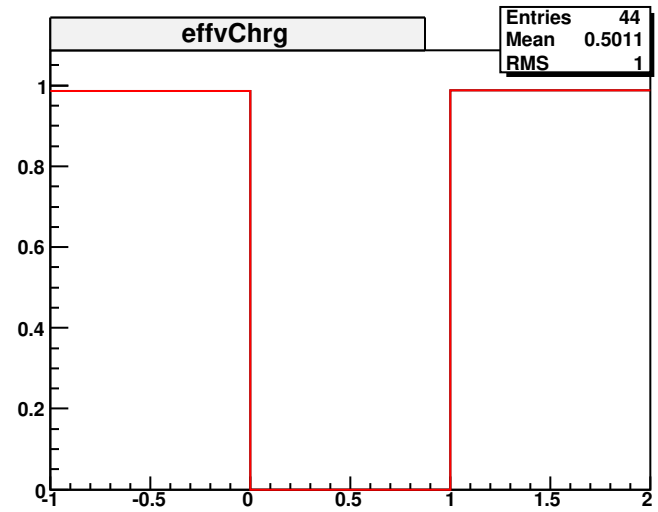


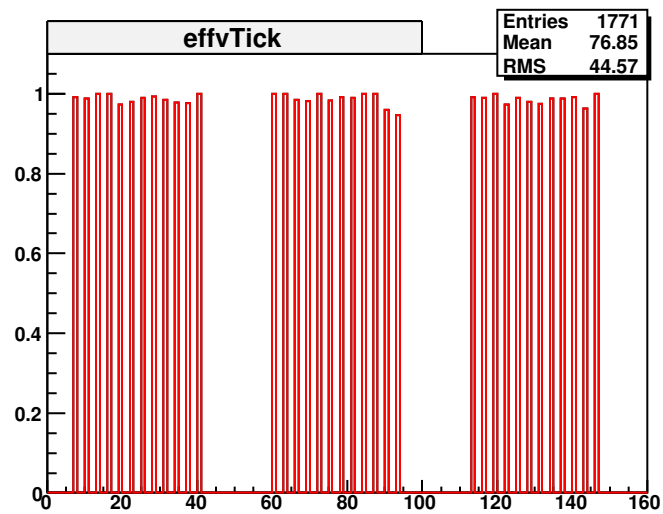
Track Hits (All)

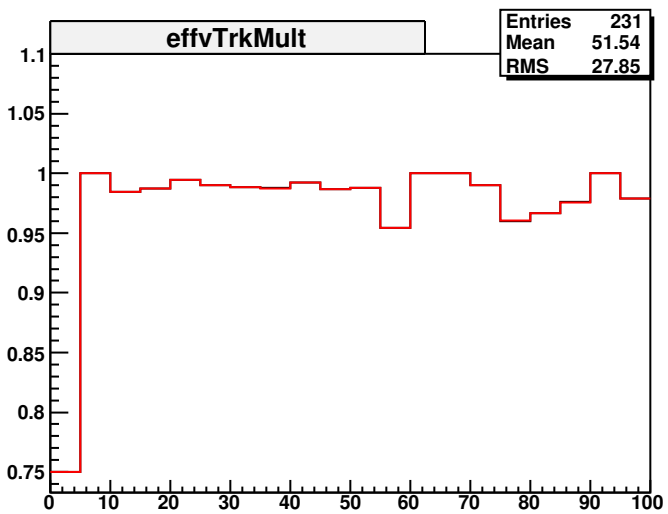




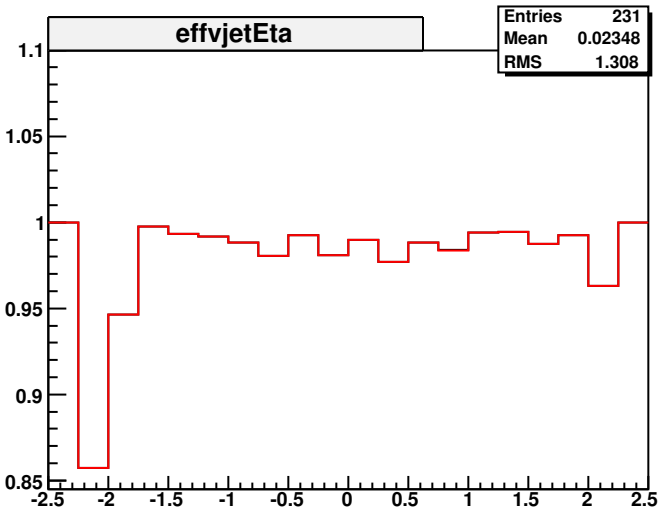


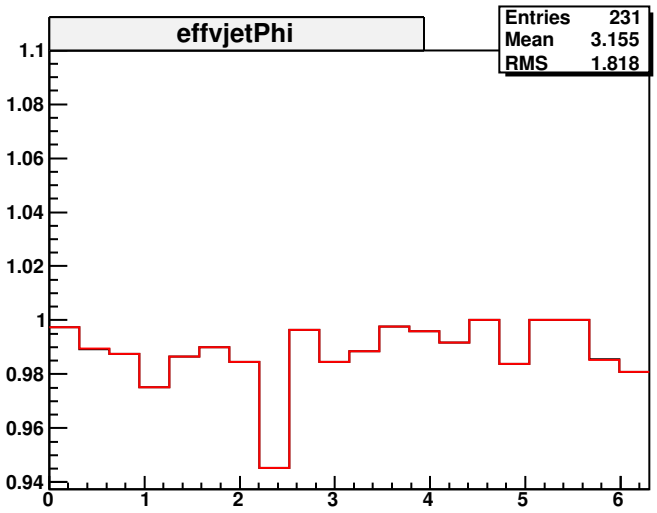


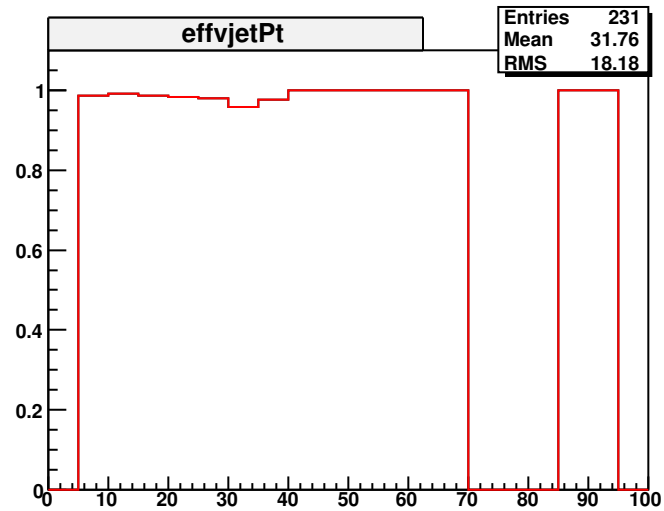




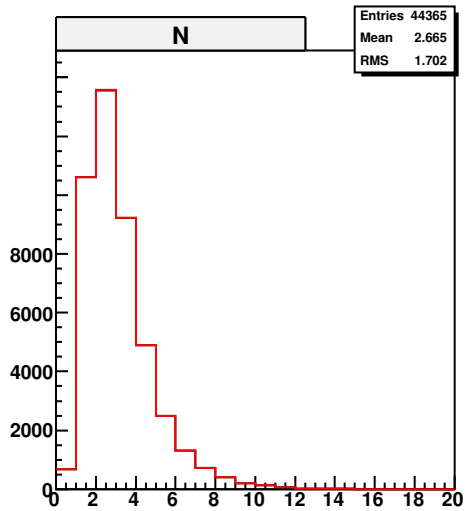
Tracking (Efficiency-Isolated)

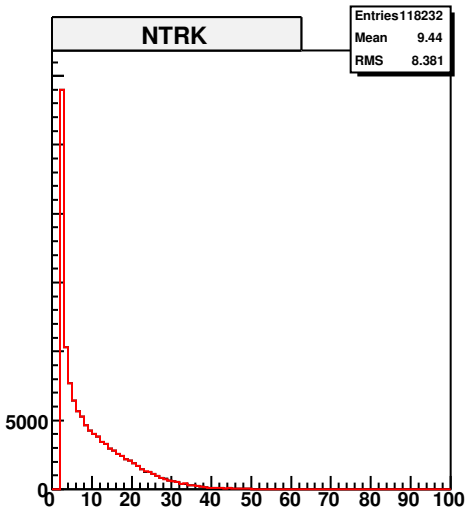


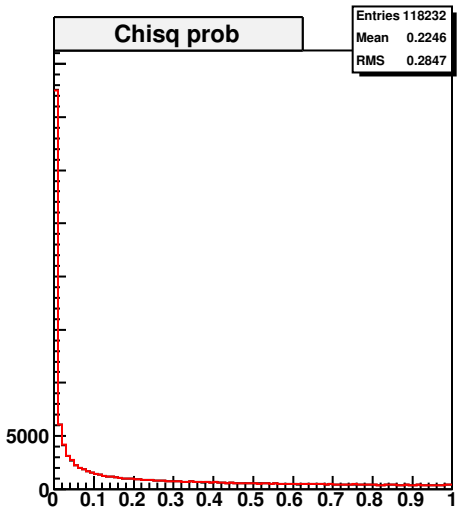


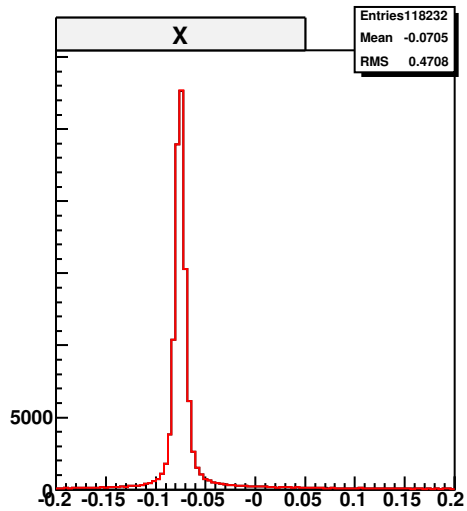


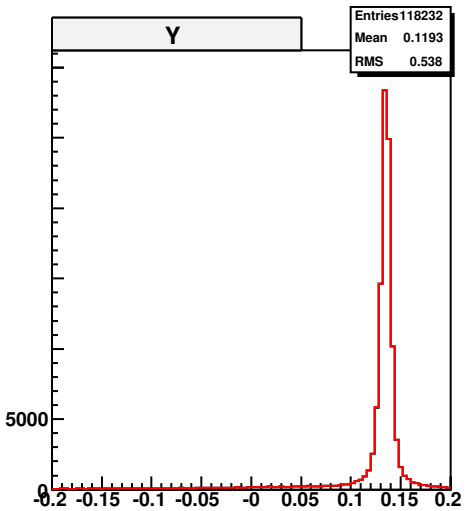
Tracking (Efficiency-InJets)

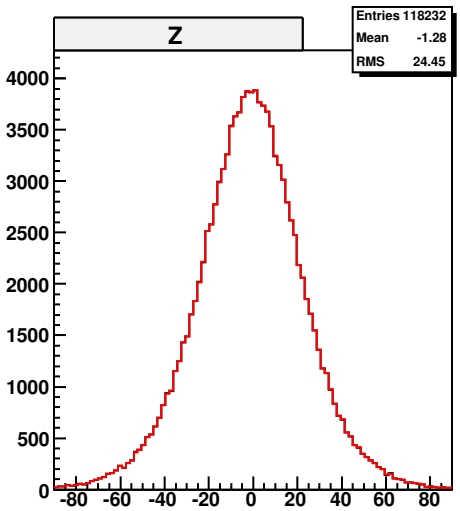




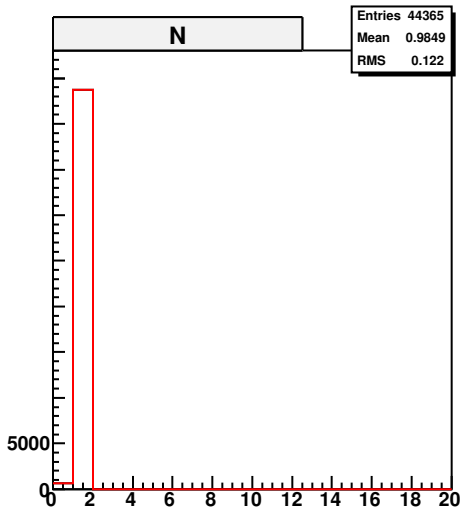


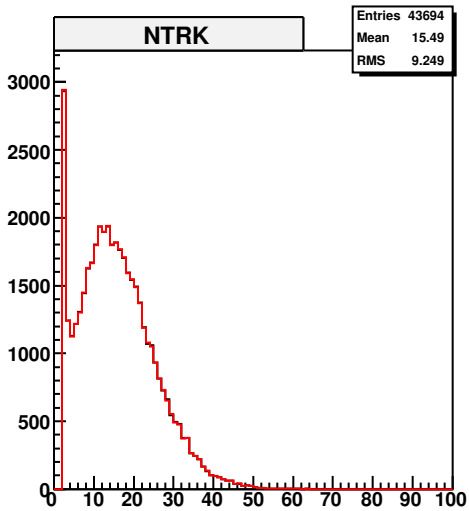


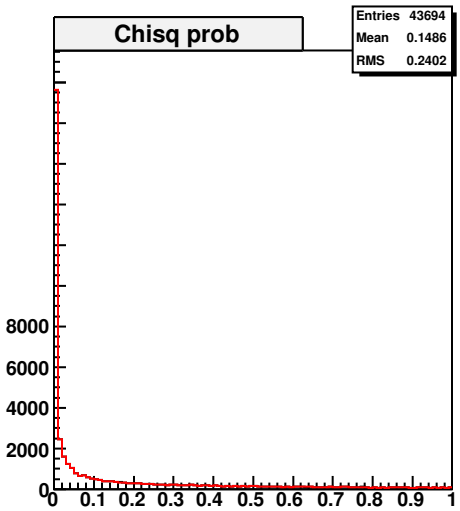


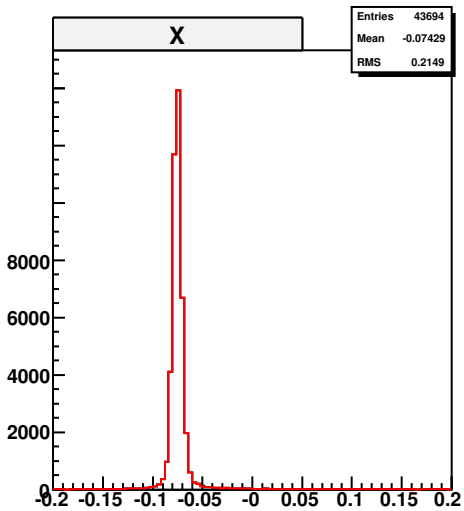


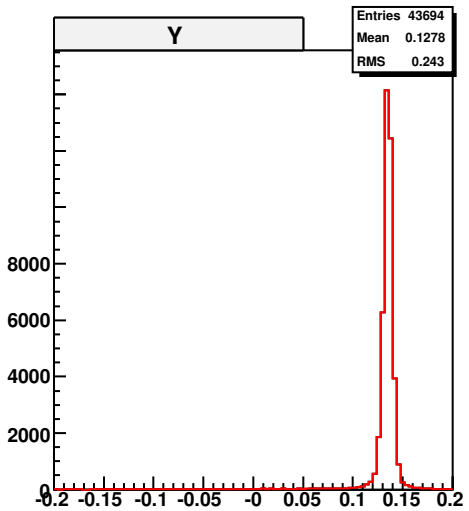
Vertices (Primary - all candidates)

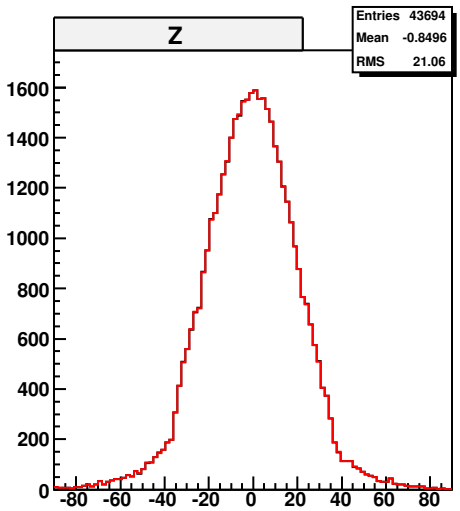




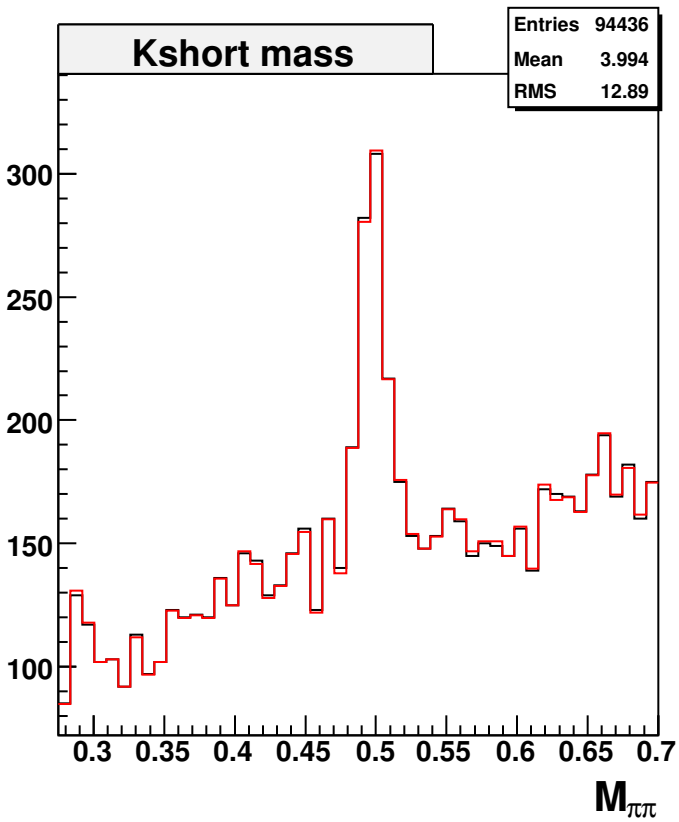


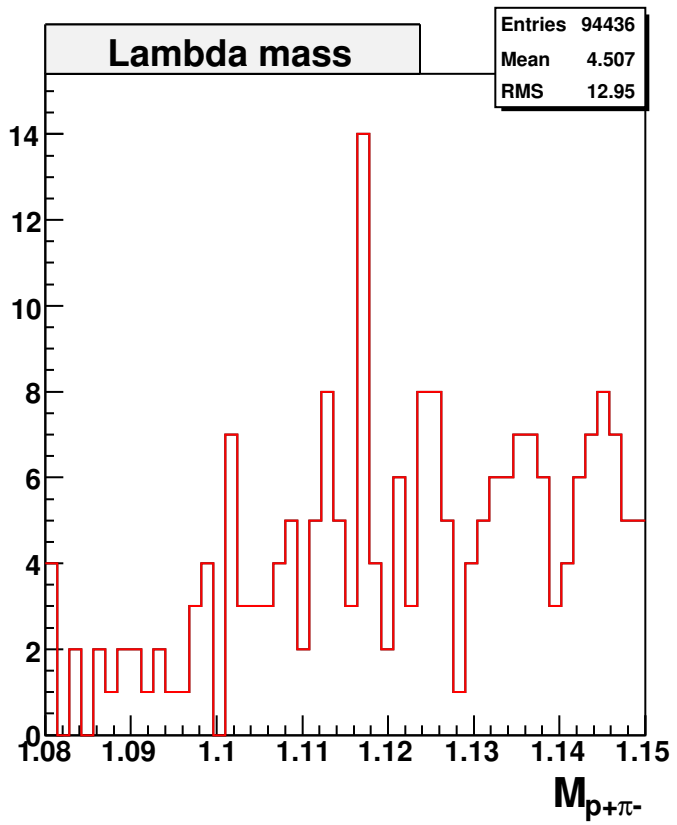


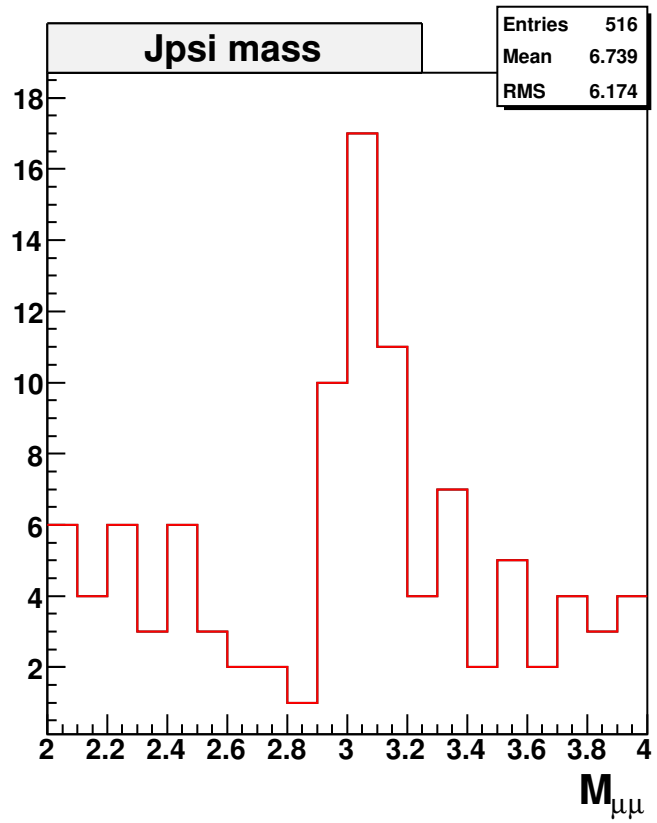


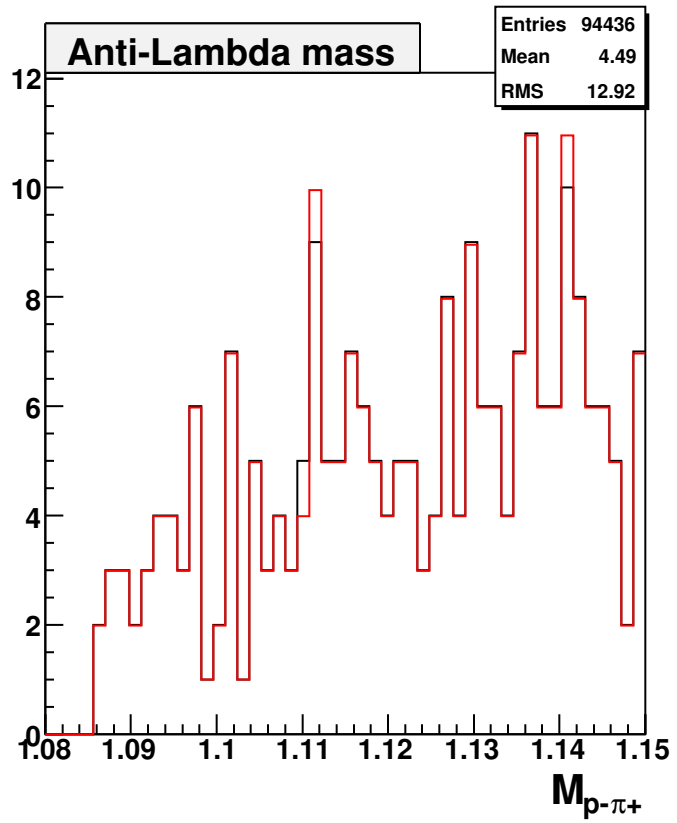


Vertices (Primary - best)

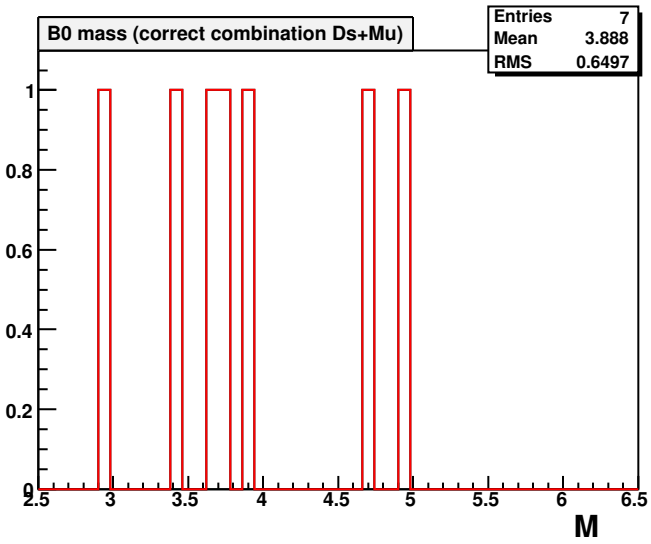

Kshort mass
Entries 94436
Mean 3.994
RMS 12.89
300
250
200
150
100
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

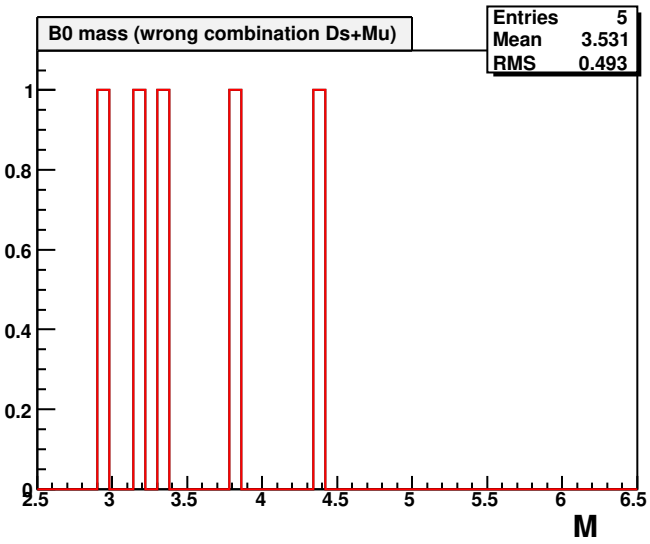

Lambda mass
Entries 94436
Mean 4.507
RMS 12.95
14
12
10
8
6
4
2
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

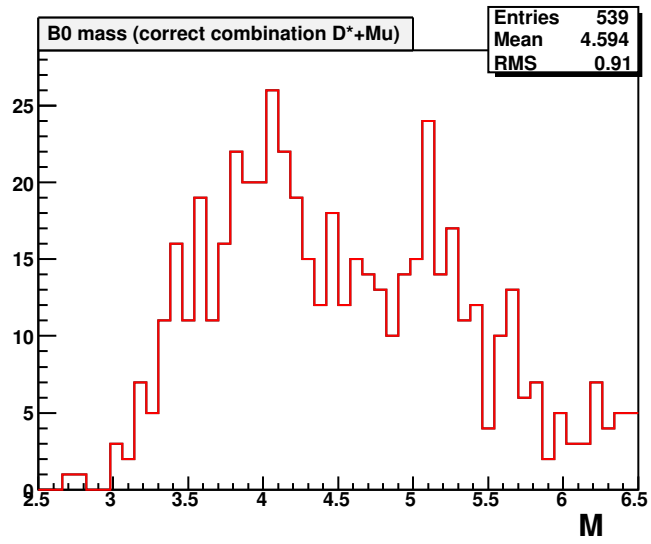

Jpsi mass
Entries 516
Mean 6.739
RMS 6.174
18
16
14
12
10
8
6
4
2
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

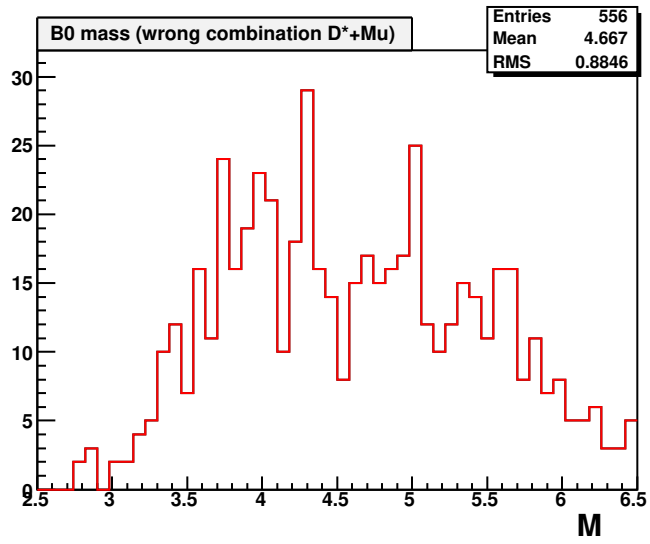

Anti-Lambda mass
Entries 94436
Mean 4.49
RMS 12.92
12
10
8
6
4
2
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

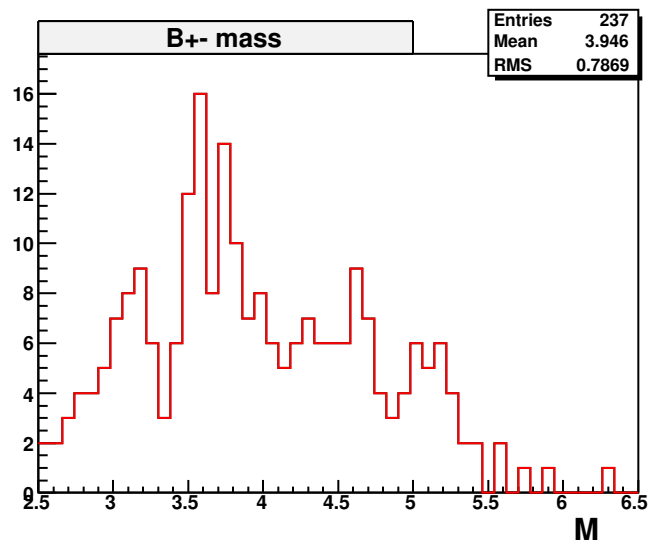
V0 (All)



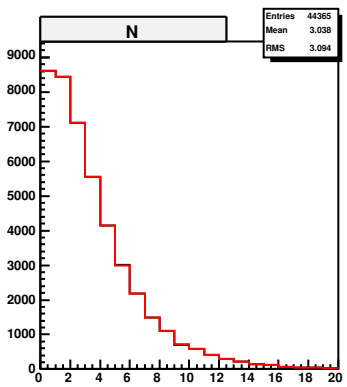


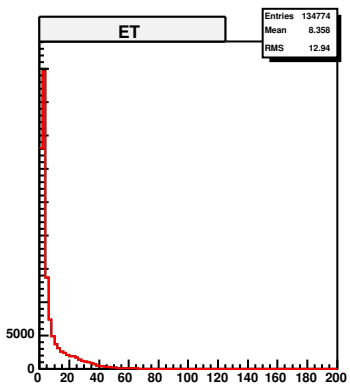


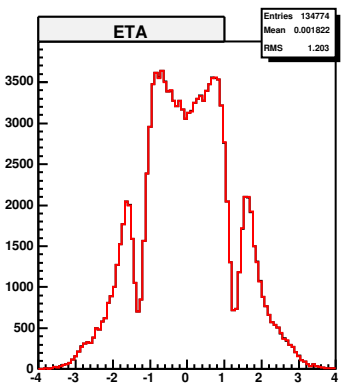


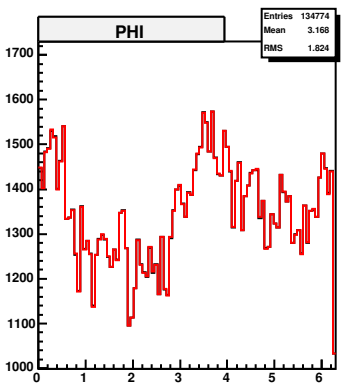


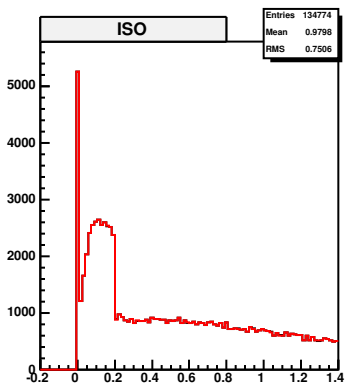
V0(B mesons) (All)

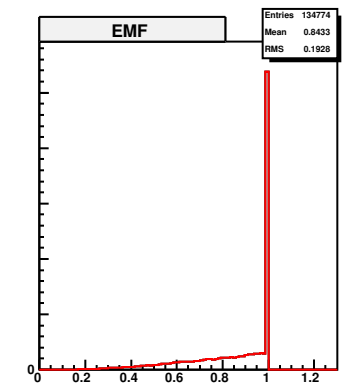


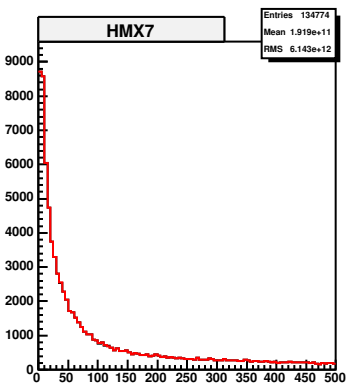


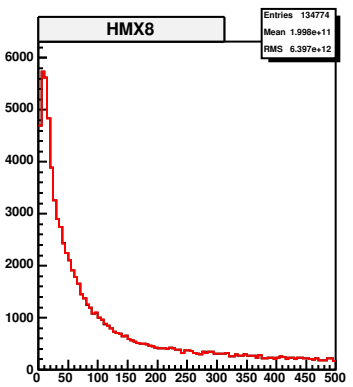


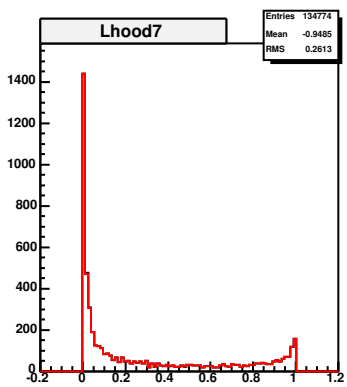


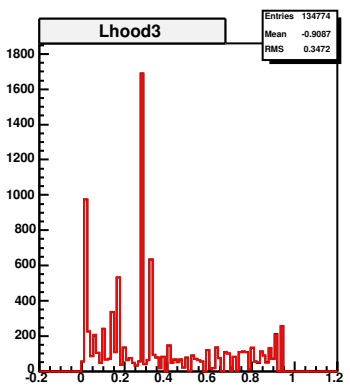


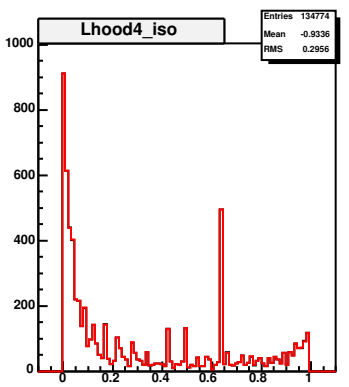


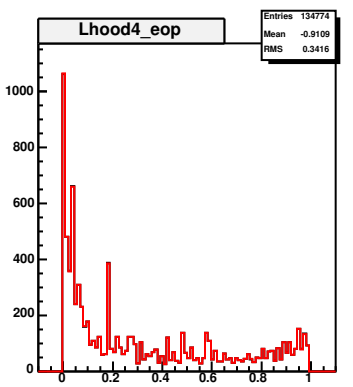


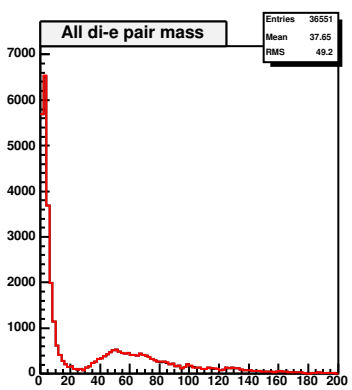


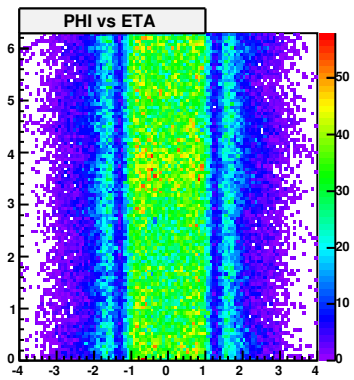


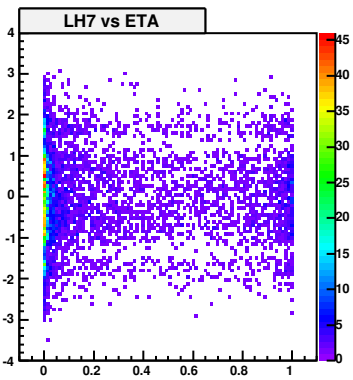


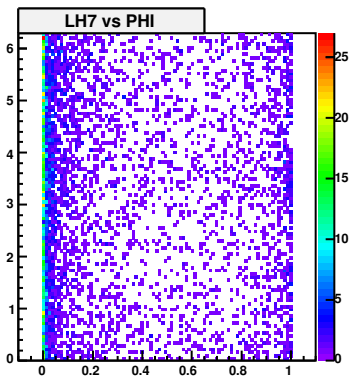




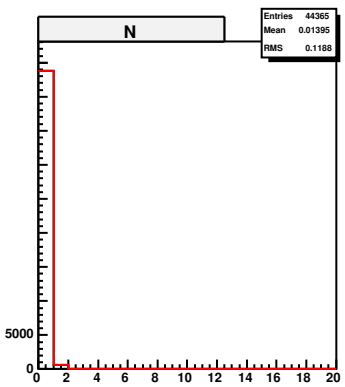


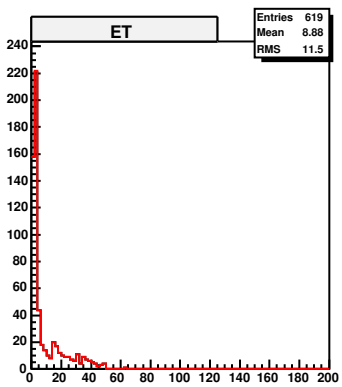


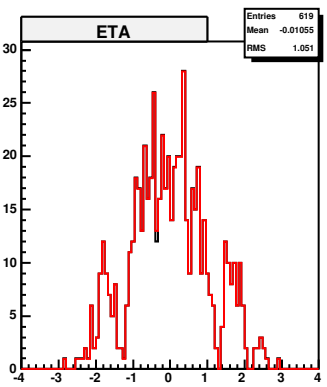


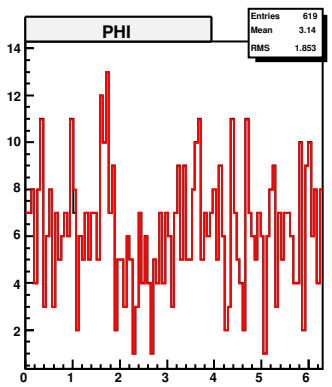


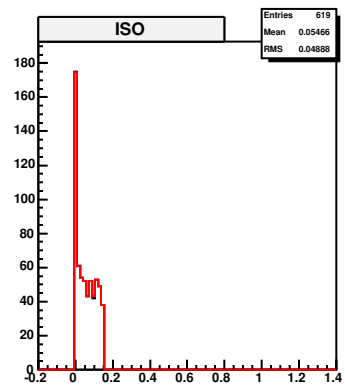
Electrons (SCONE All)

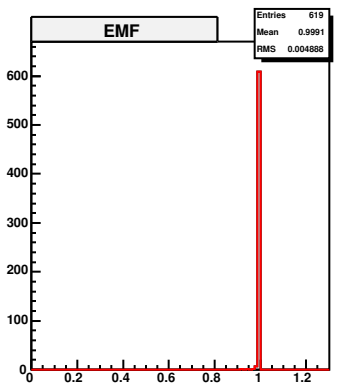


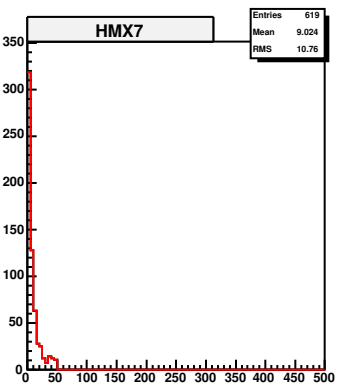


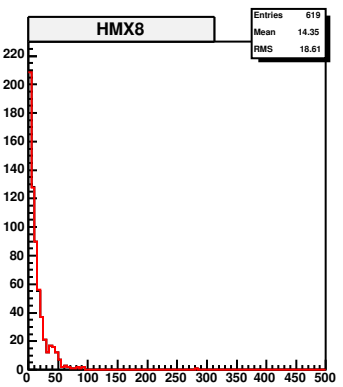


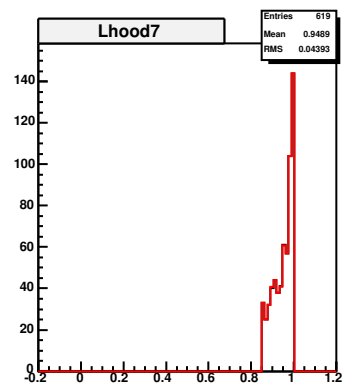


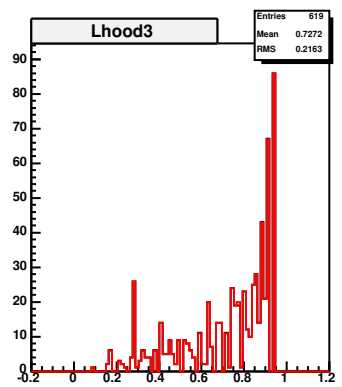


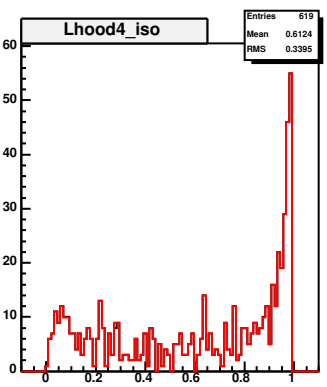


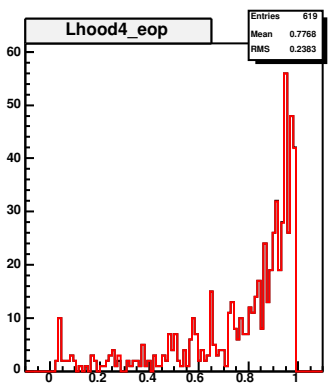


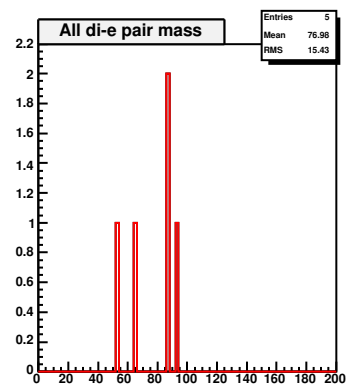


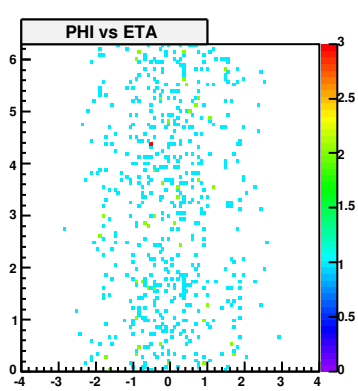


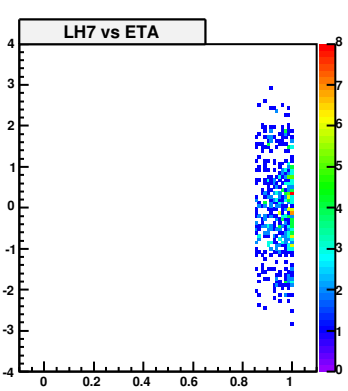


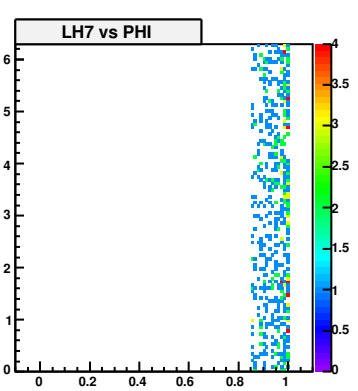




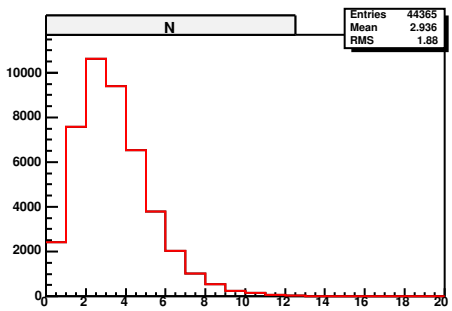


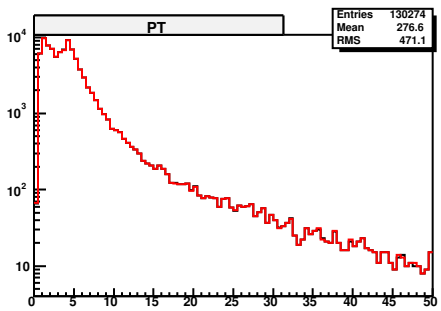


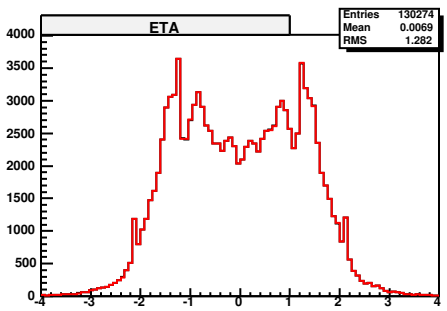


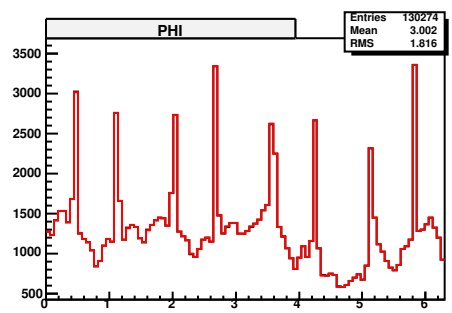


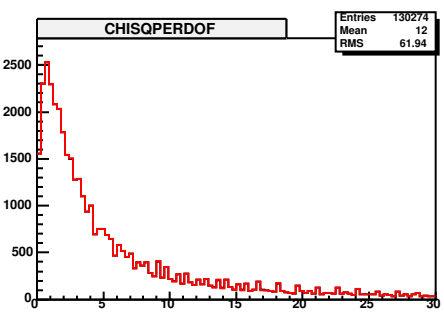
Electrons (SCONE Tight)

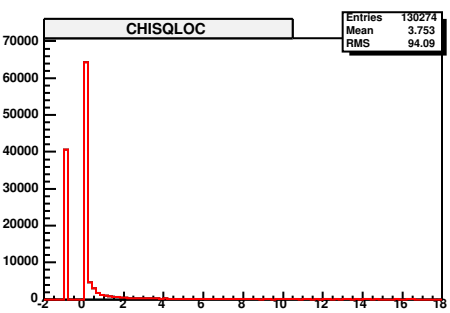

N
Entries 44365
Mean 2.936
RMS 1.88

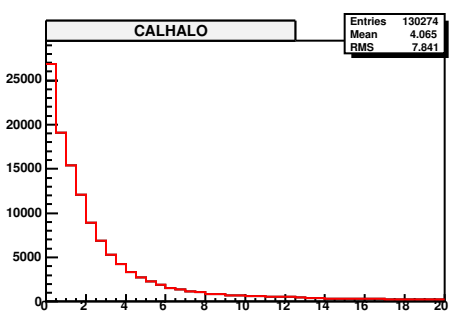

PT
Entries 130274
Mean 276.6
RMS 471.1

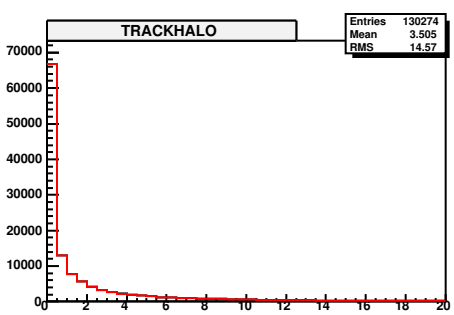

ETA
Entries 130274
Mean 0.0069
RMS 1.282

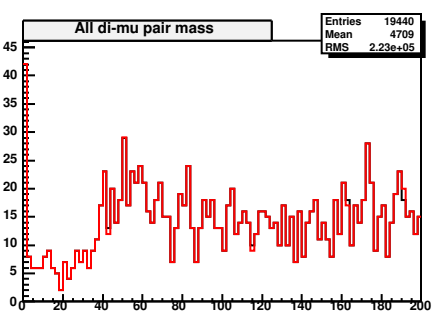

PHI
Entries 130274
Mean 3.002
RMS 1.816

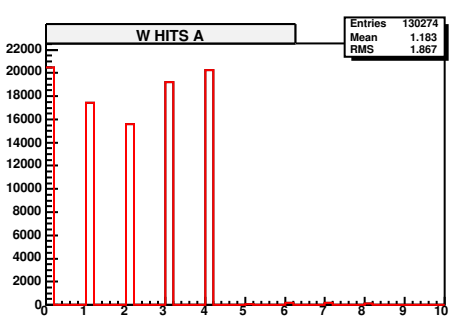

CHISQPERDOF
Entries 130274
Mean 12
RMS 61.94

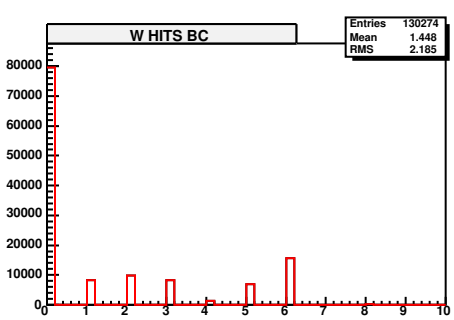

CHISQLOC
Entries 130274
Mean 3.753
RMS 94.09

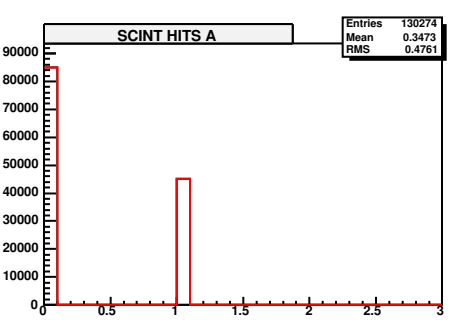

CALHALO
Entries 130274
Mean 4.065
RMS 7.841

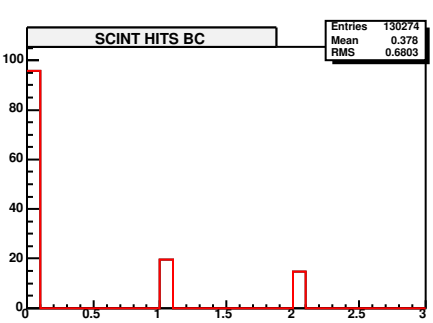

TRACKHALO
Entries 130274
Mean 3.505
RMS 14.57


All di-mu pair mass
Entries 19440
Mean 4709
RMS 2.23e+05

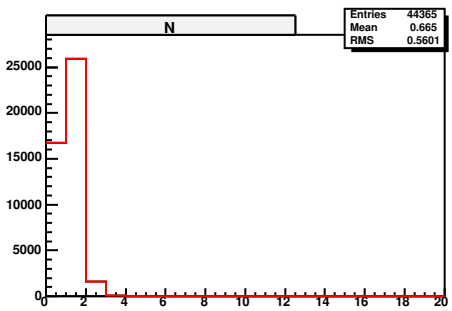

W HITS A
Entries 130274
Mean 1.183
RMS 1.867

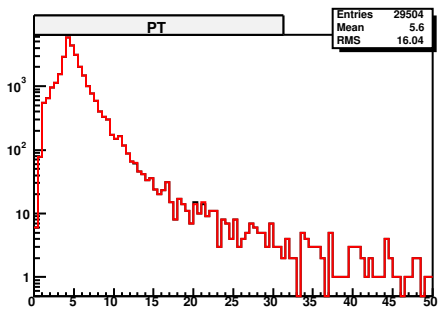

W HITS BC
Entries 130274
Mean 1.448
RMS 2.185

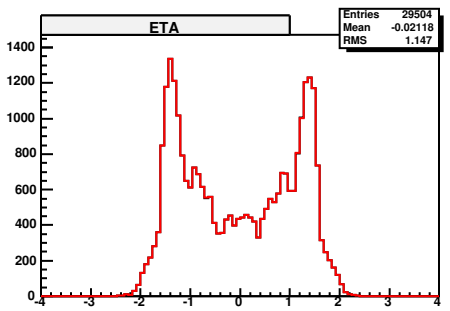

SCINT HITS A
Entries 130274
Mean 0.3473
RMS 0.4761

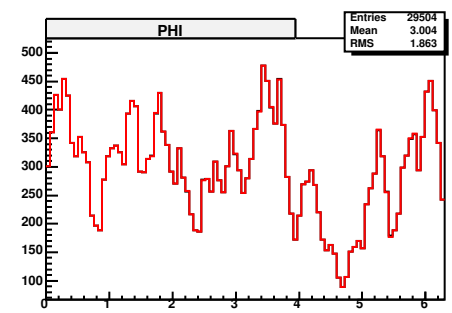

SCINT HITS BC
Entries 130274
Mean 0.378
RMS 0.6803

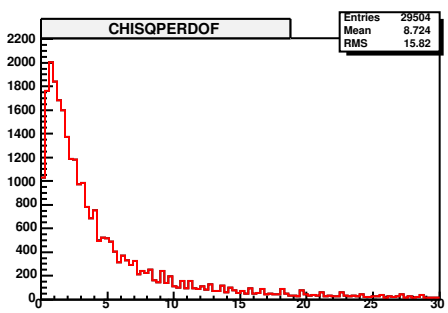
Muons (All)

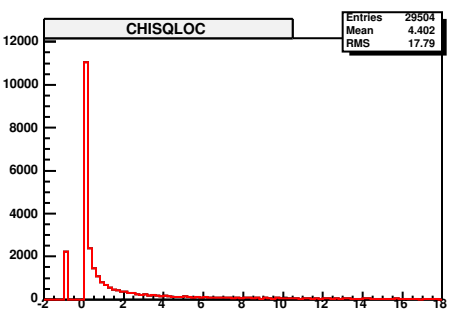


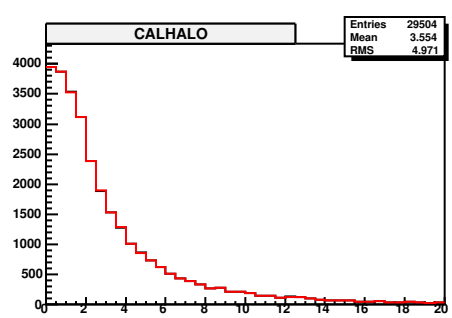


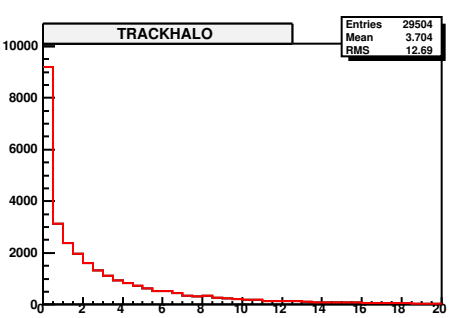


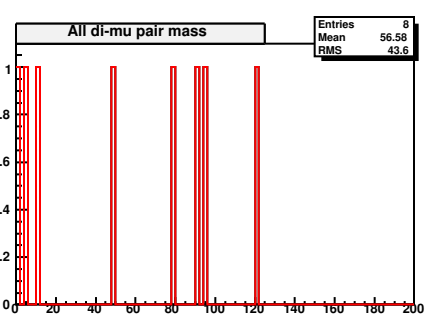


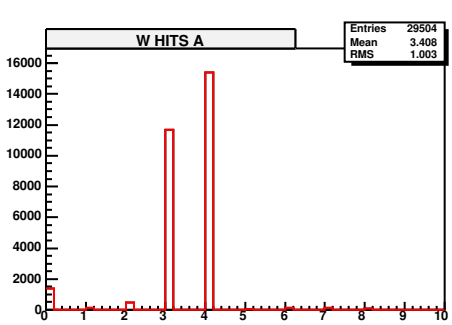


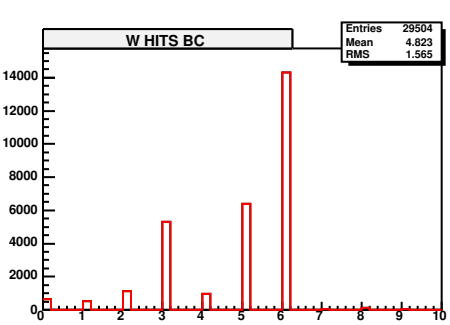


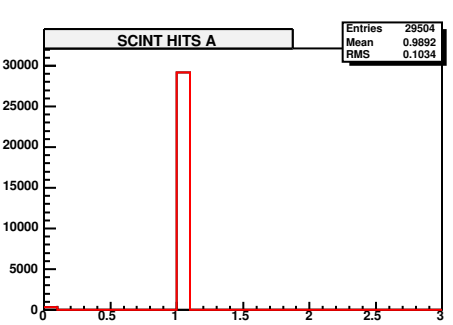


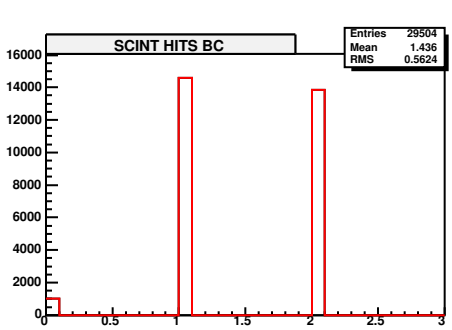




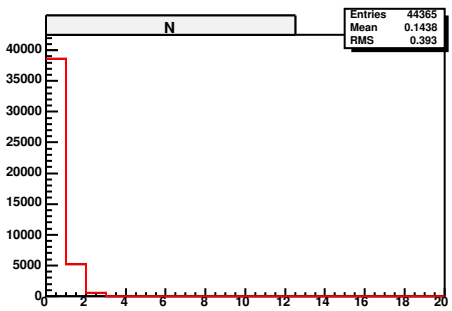


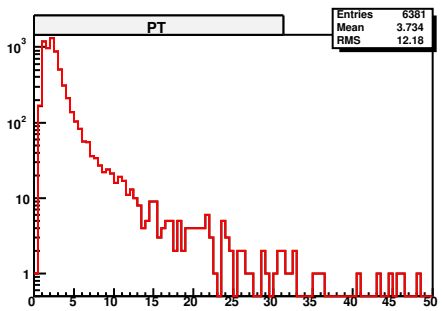


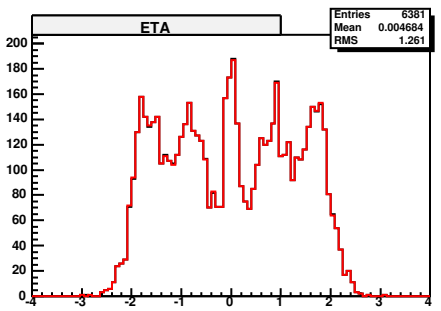


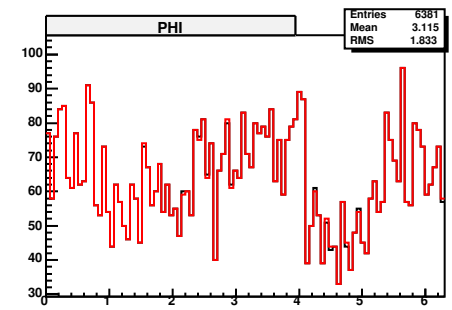


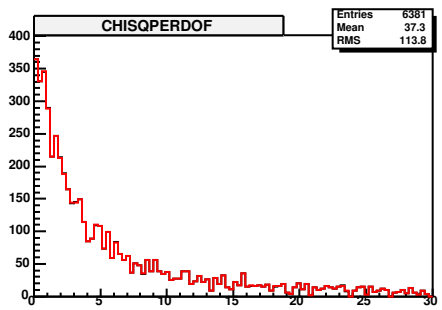
Muons (Matched)

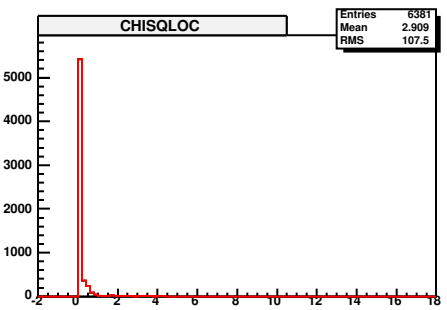

N
Entries 44365
Mean 0.1438
RMS 0.393

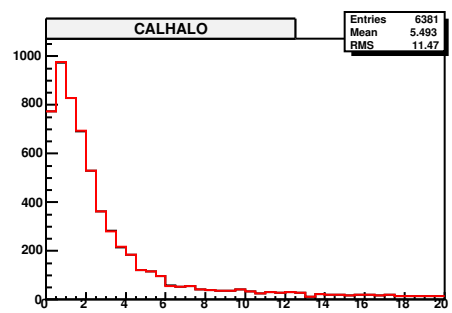

PT
Entries 6381
Mean 3.734
RMS 12.18

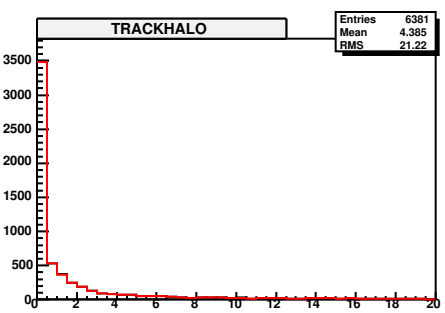

ETA
Entries 6381
Mean 0.004684
RMS 1.261

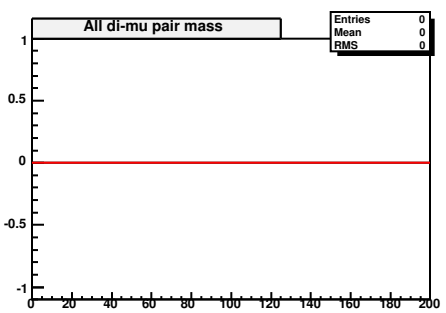

PHI
Entries 6381
Mean 3.115
RMS 1.833

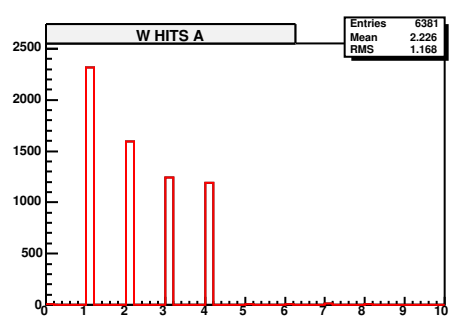

CHISQPERDOF
Entries 6381
Mean 37.3
RMS 113.8

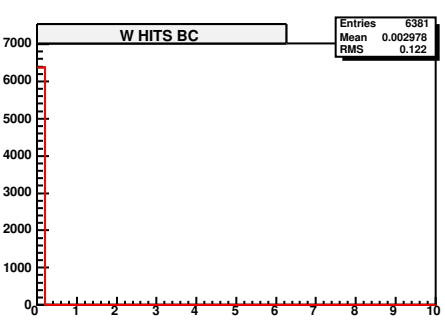

CHISQLOC
Entries 6381
Mean 2.909
RMS 107.5

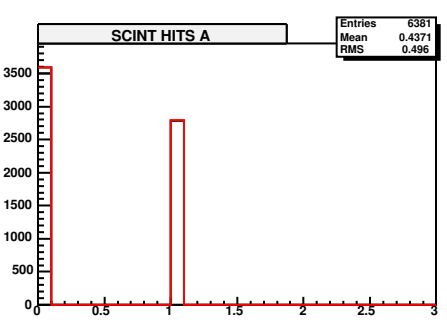

CALHALO
Entries 6381
Mean 5.493
RMS 11.47

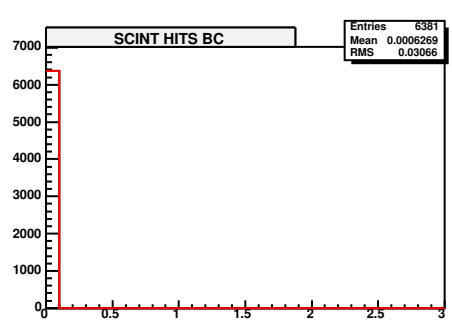

TRACKHALO
Entries 6381
Mean 4.385
RMS 21.22


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

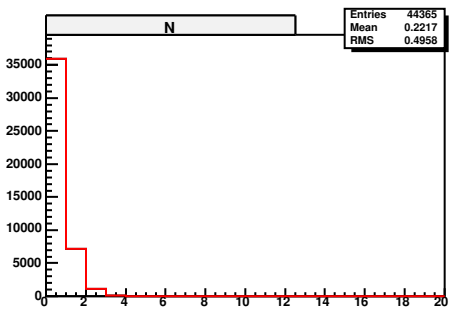

W HITS A
Entries 6381
Mean 2.226
RMS 1.168

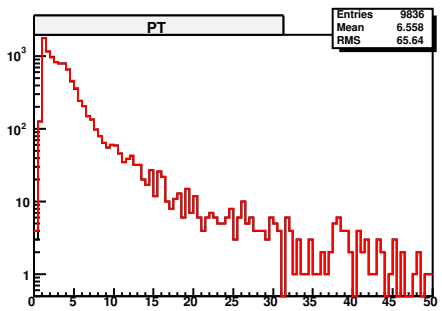

W HITS BC
Entries 6381
Mean 0.002978
RMS 0.122

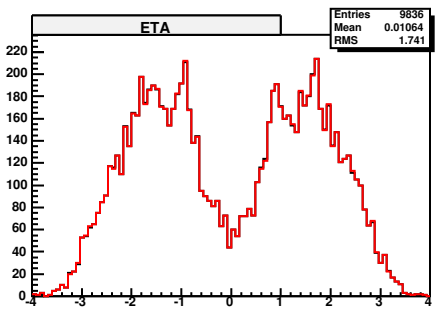

SCINT HITS A
Entries 6381
Mean 0.4371
RMS 0.496

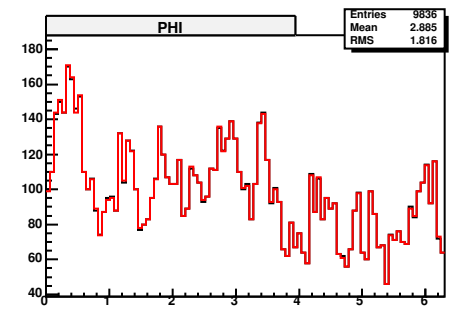

SCINT HITS BC
Entries 6381
Mean 0.0006269
RMS 0.03066

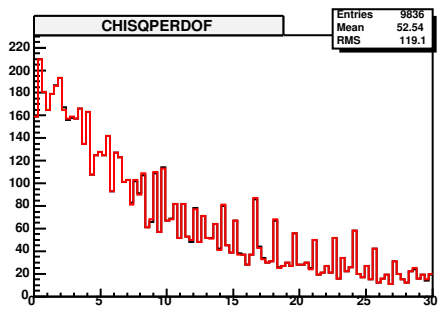
Muons (Astub)

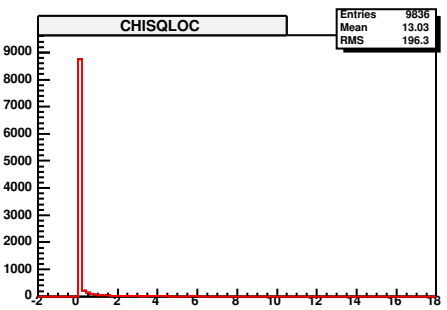


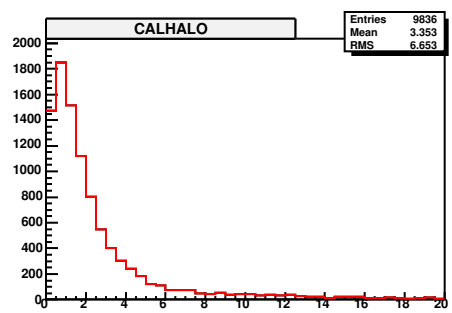


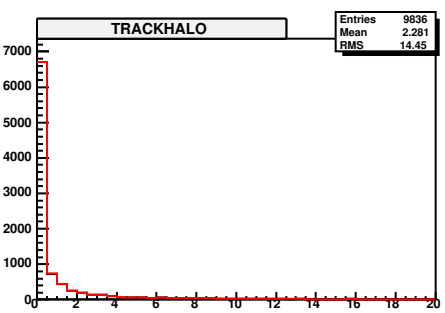


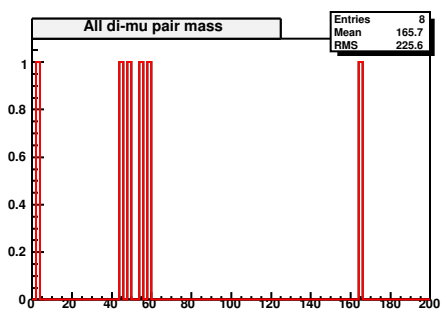


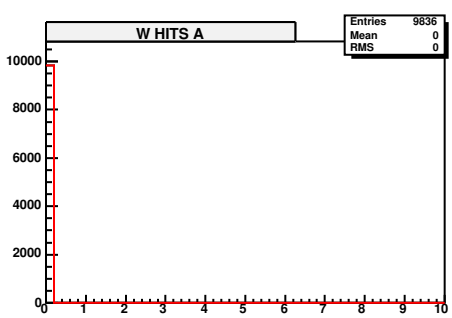


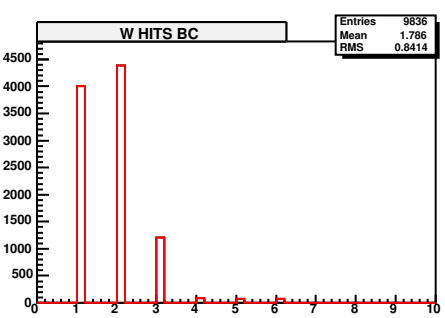


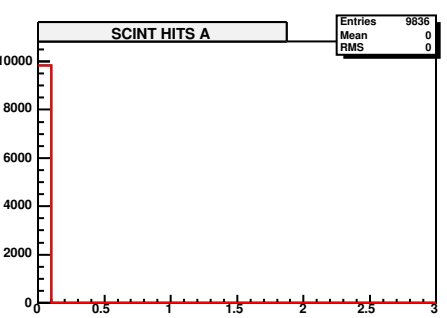


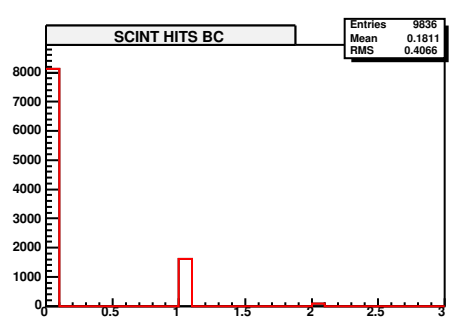




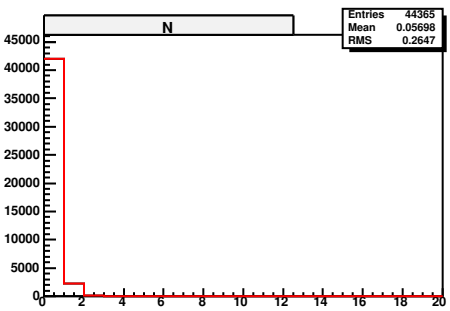


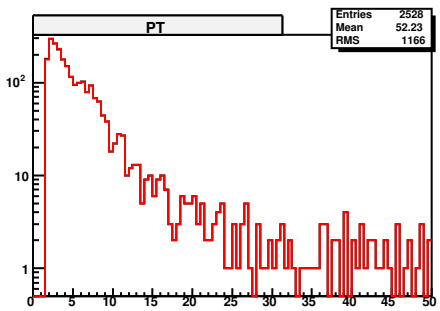


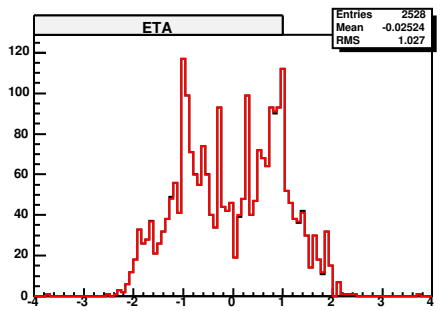


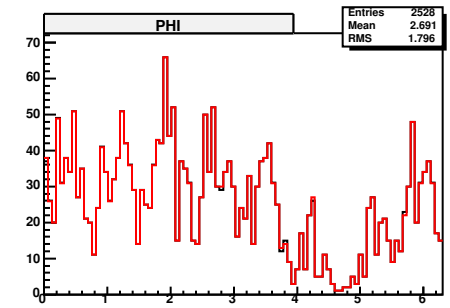


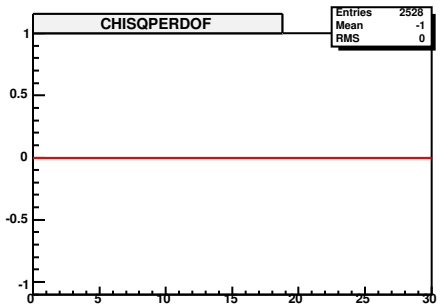
Muons (BCstub)

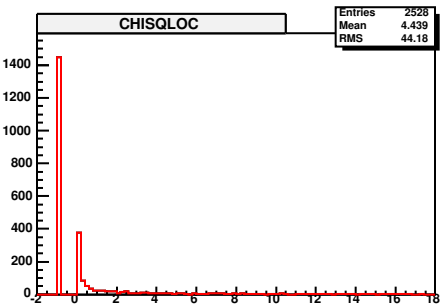


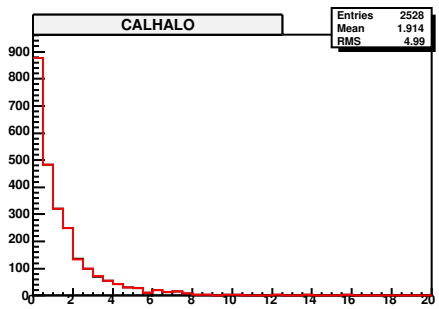


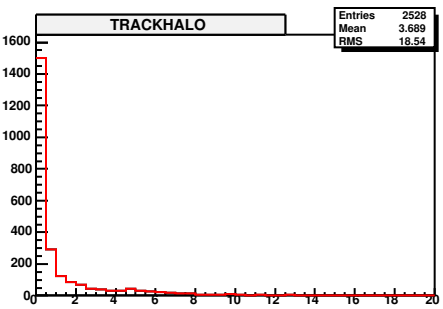


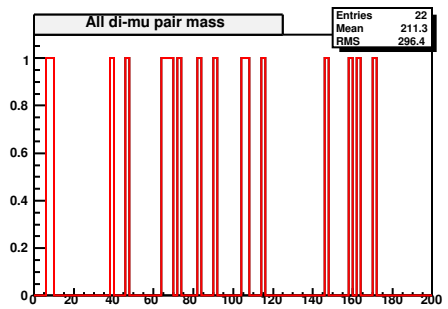


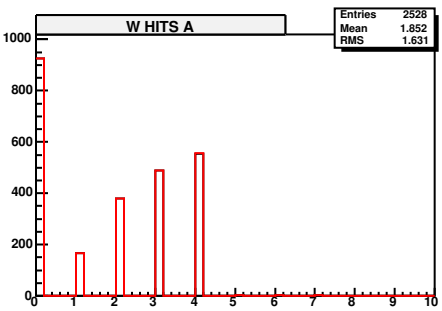


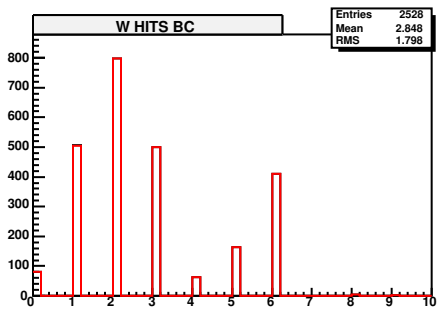


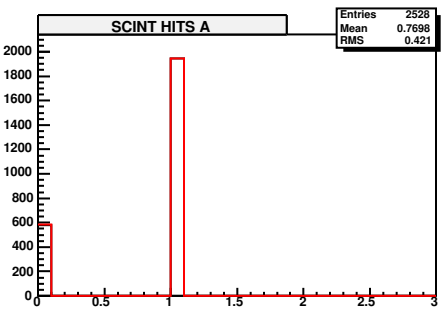


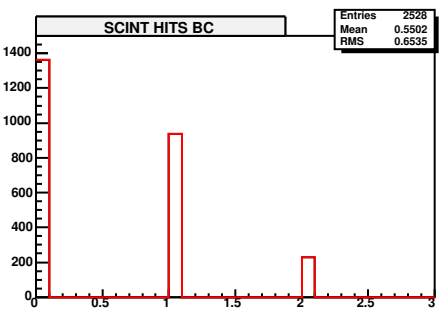




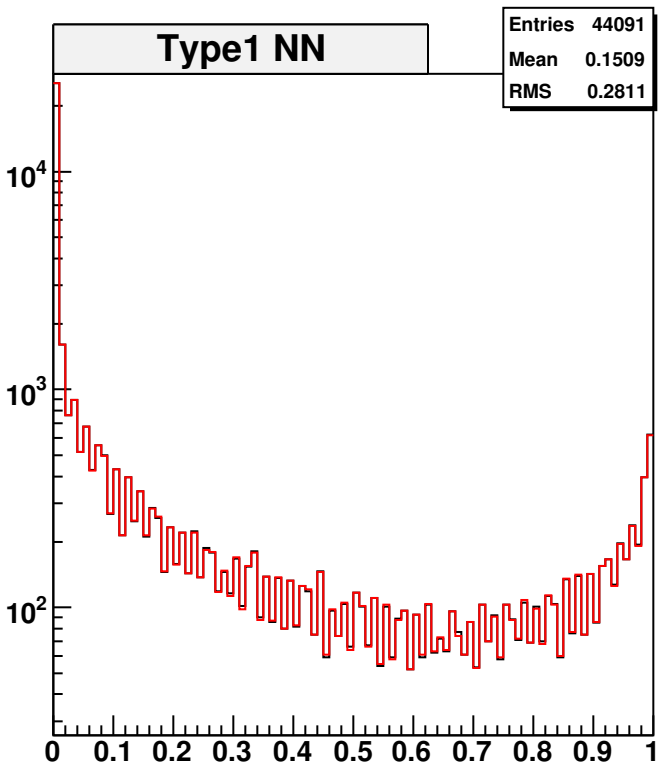


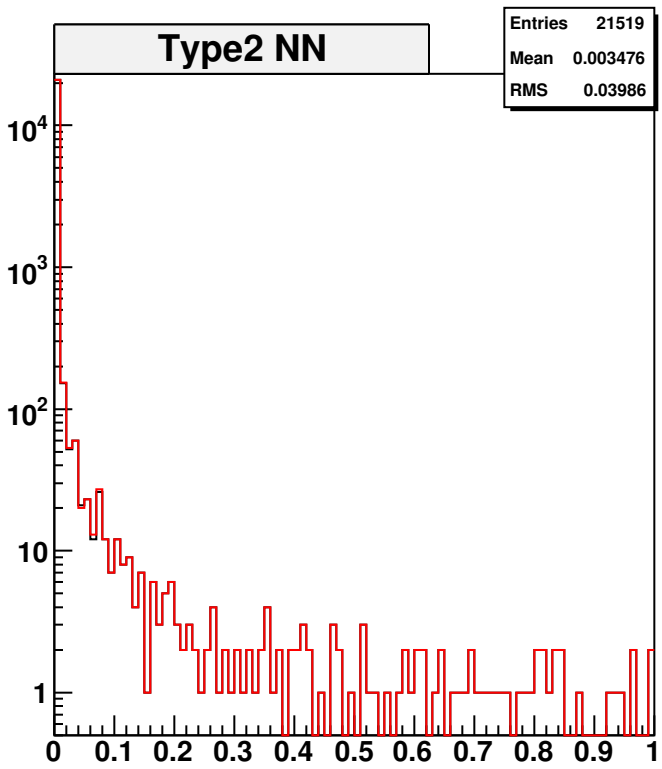


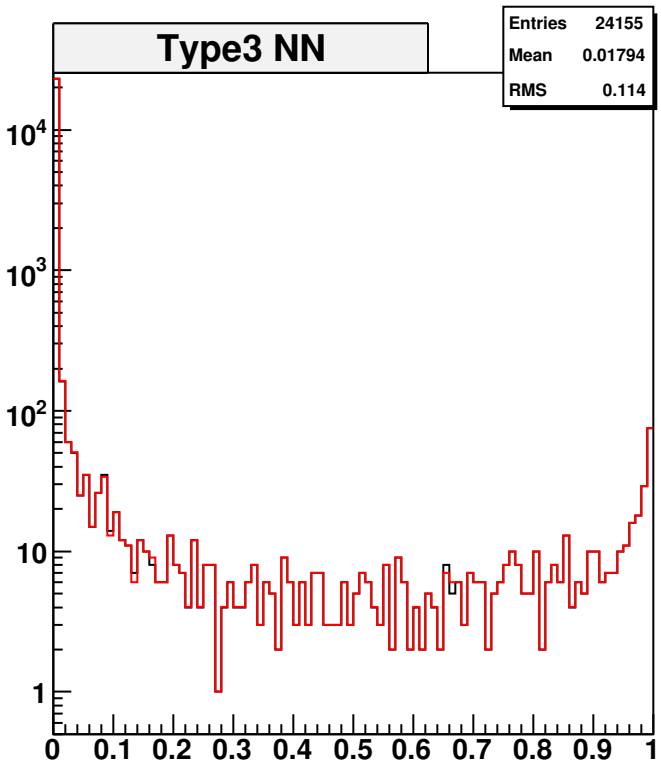


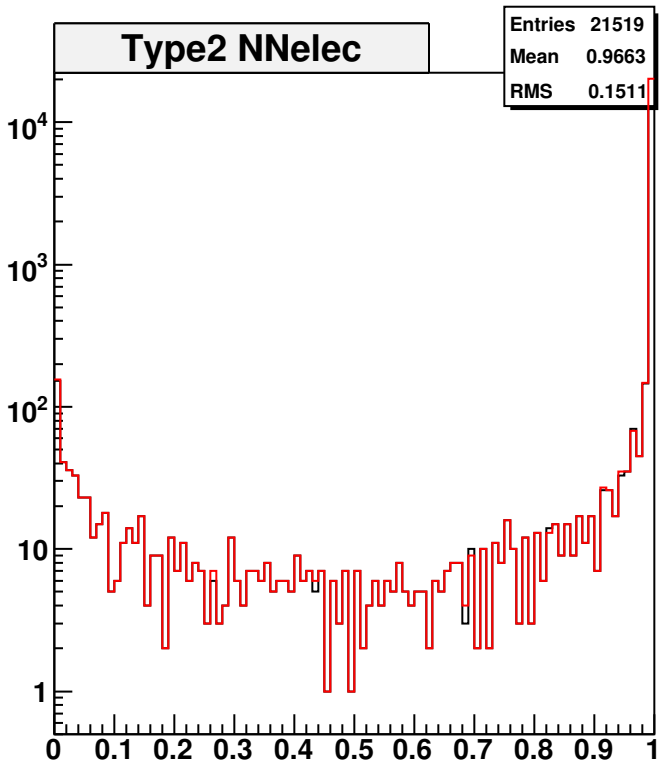


Muons (Unmatched)

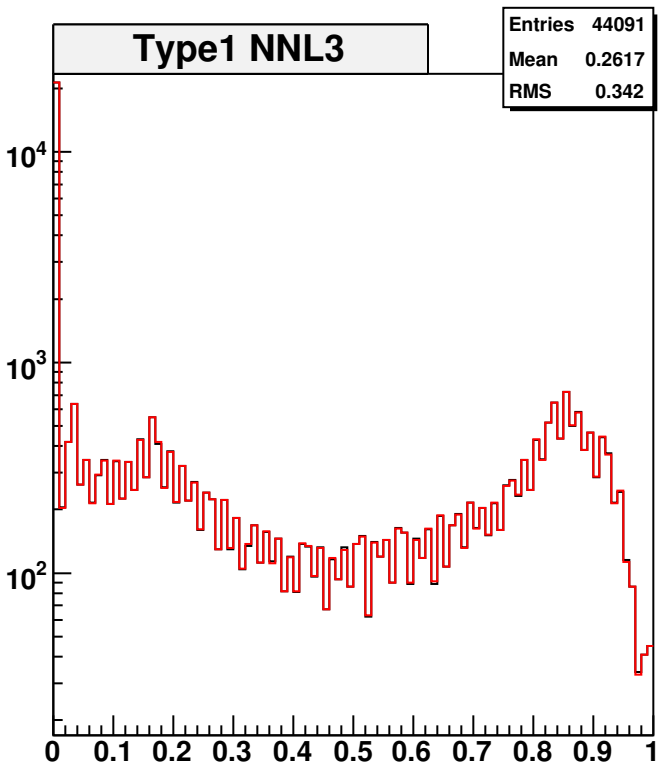


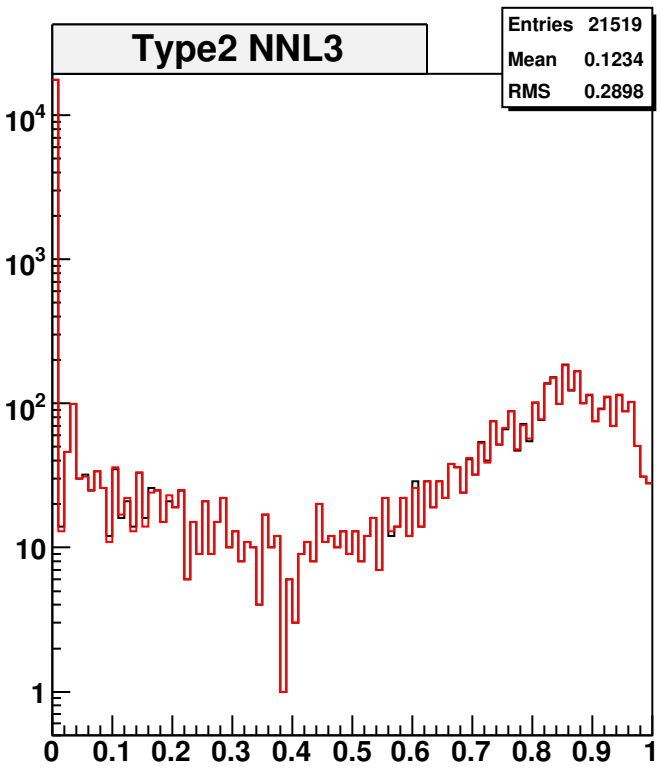


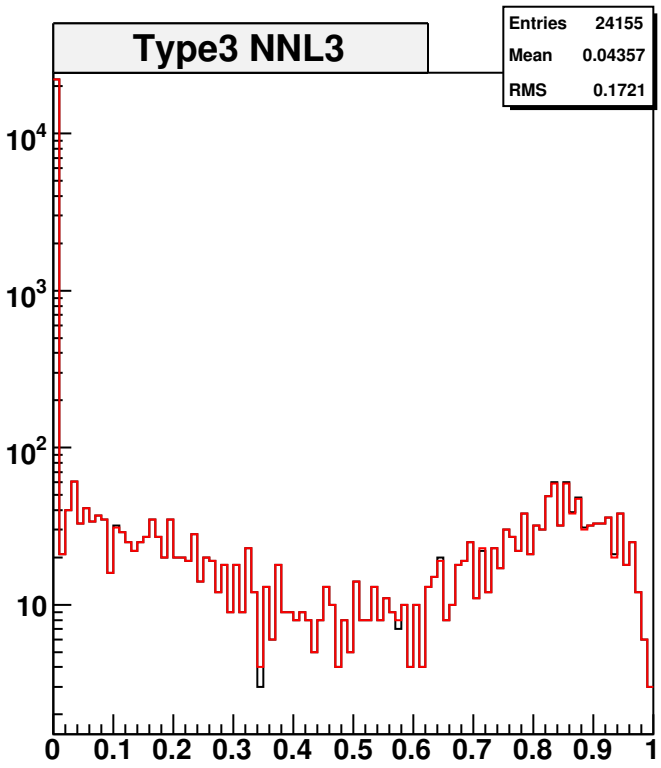


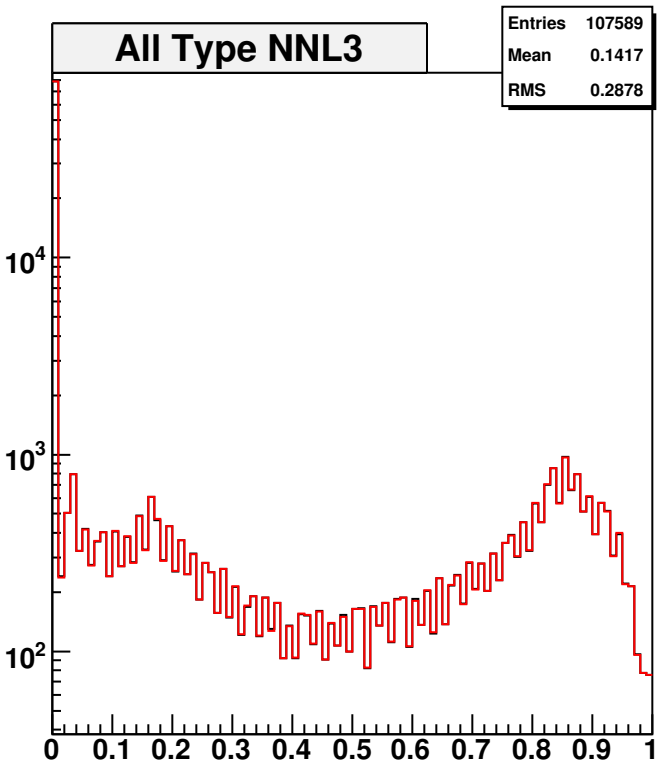


Taus NN (TAU All)

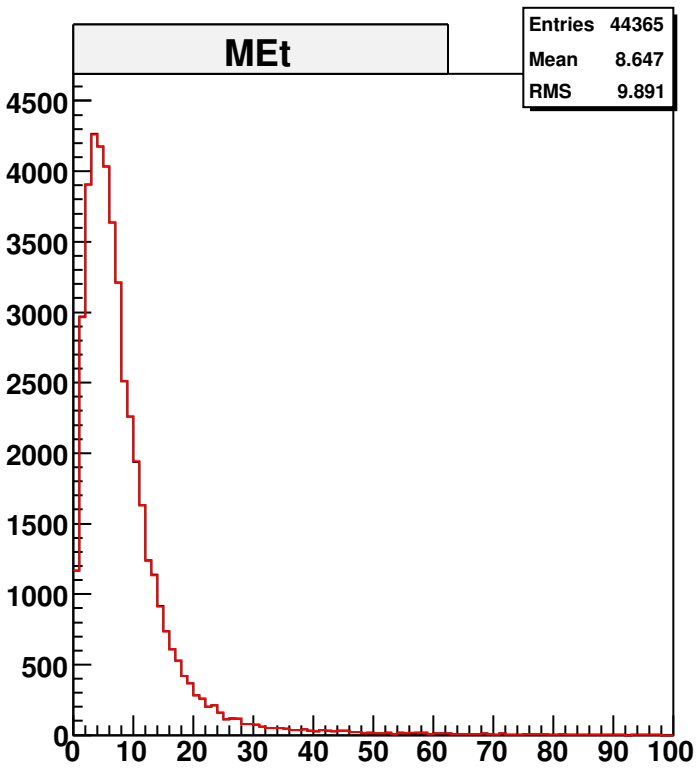








Taus NNL3 (TAU All)


MEt
Entries 44365
Mean 8.647
RMS 9.891
4500
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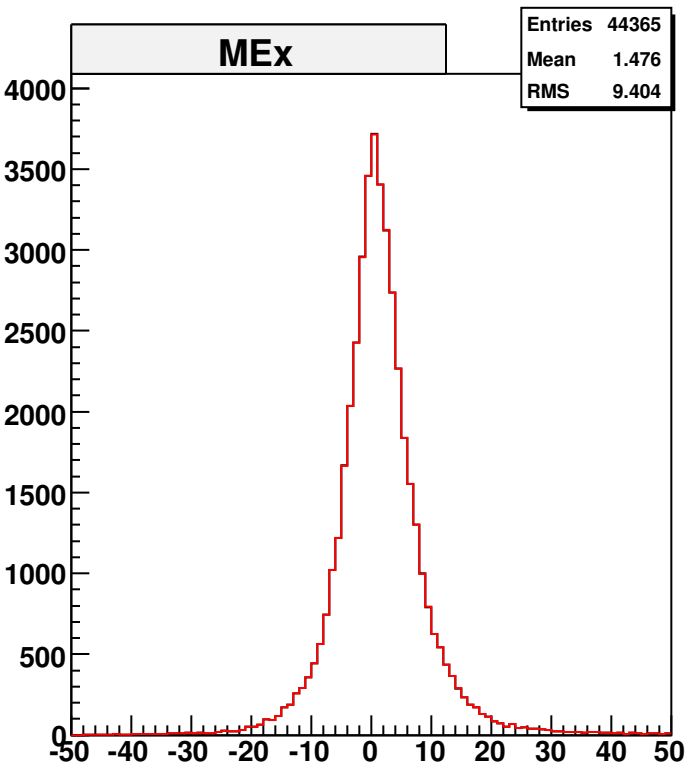
3500
3000
2500
2000
1500
1000
500
0
0 10 20 30 40 50 60 70 80 90 100


MEx
Entries 44365
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2500
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1000
500
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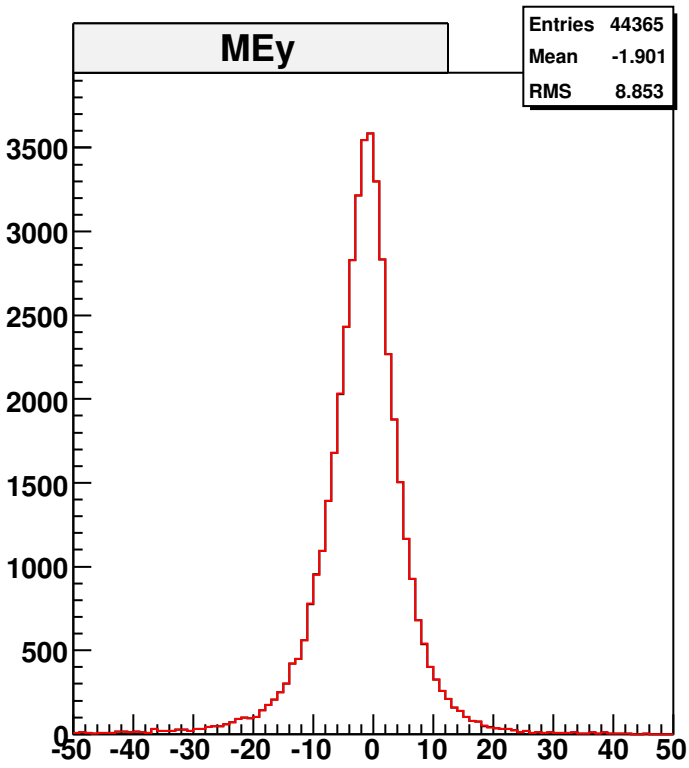
MEy
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3000
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2000
1500
1000
500
0
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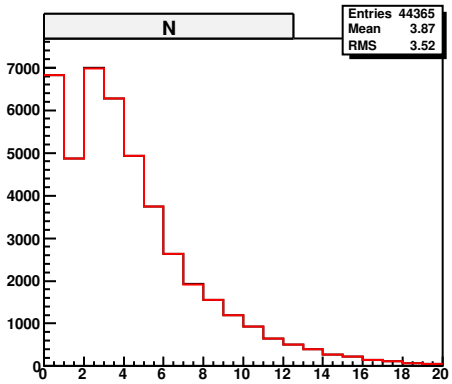
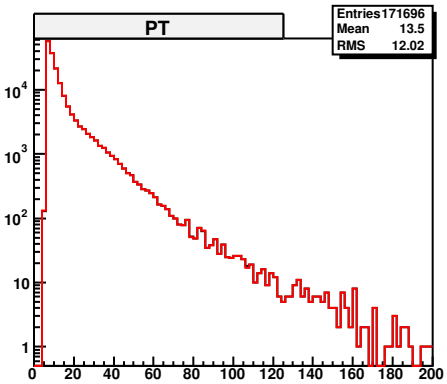
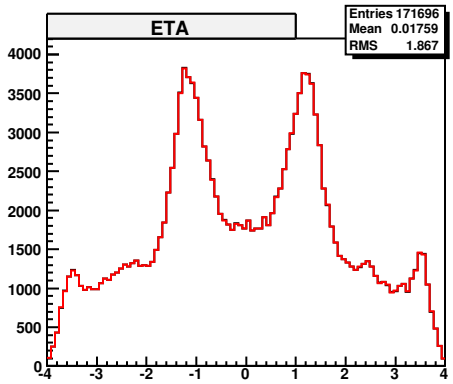
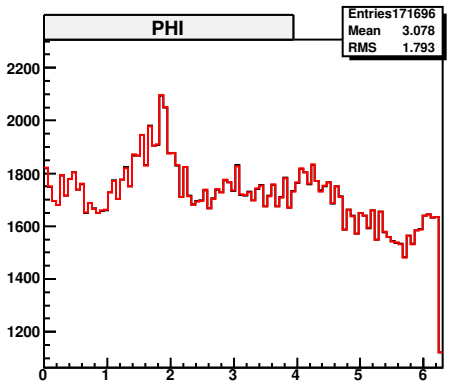
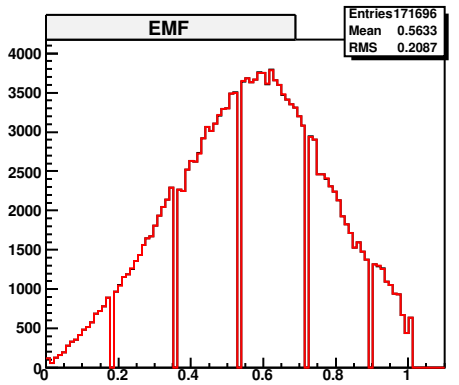
Met (No cuts)

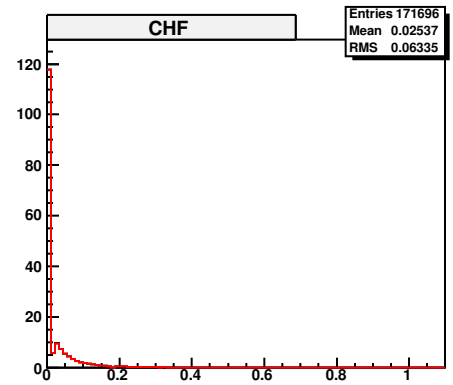


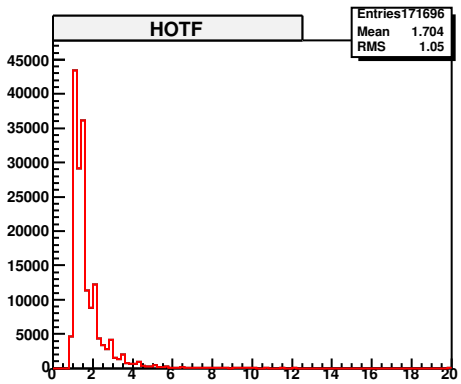


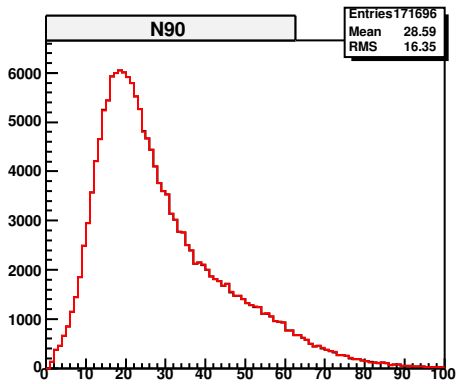


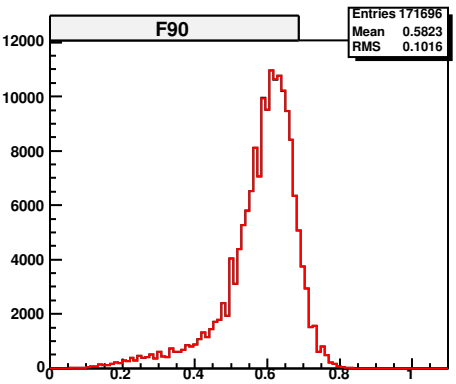


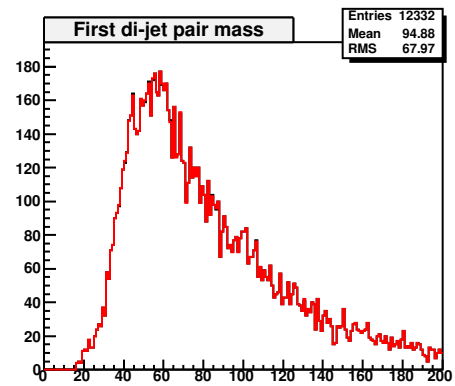


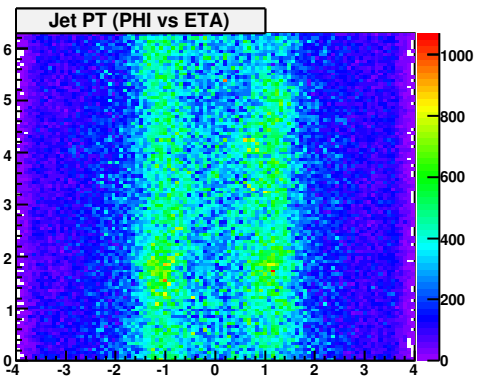




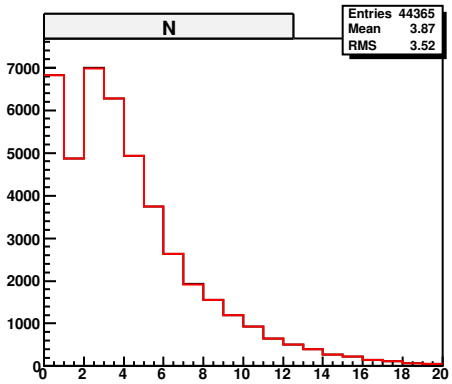


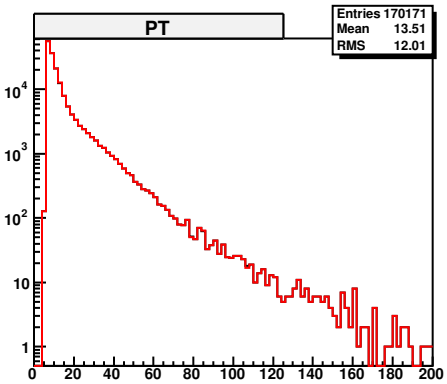


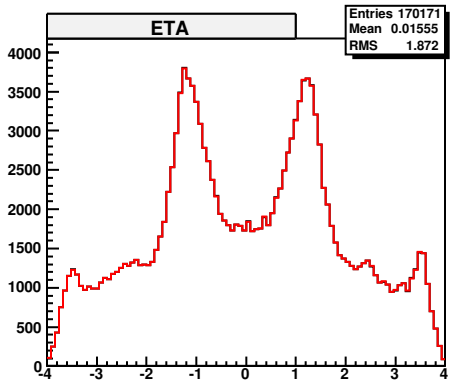


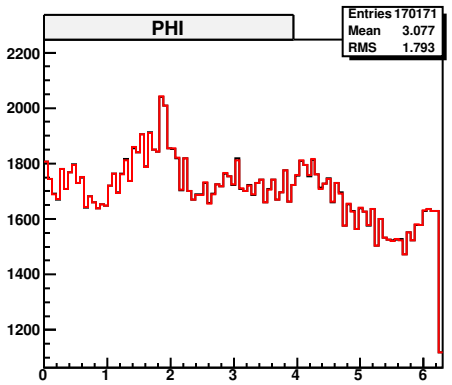


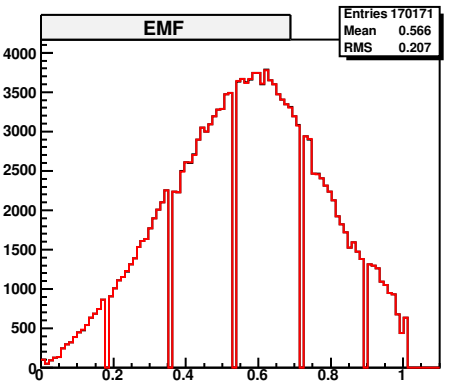
Jets (Cone R 0.7 (no cuts))

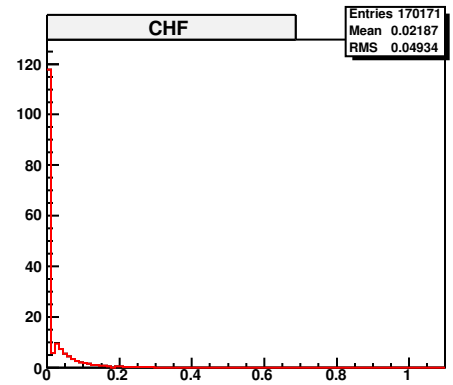


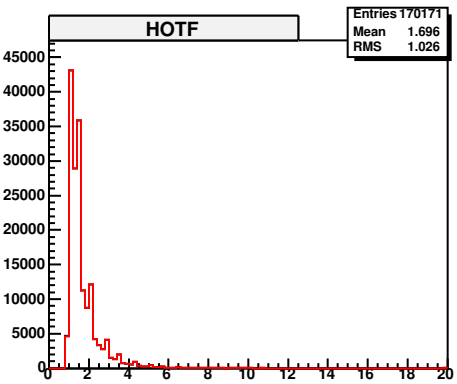


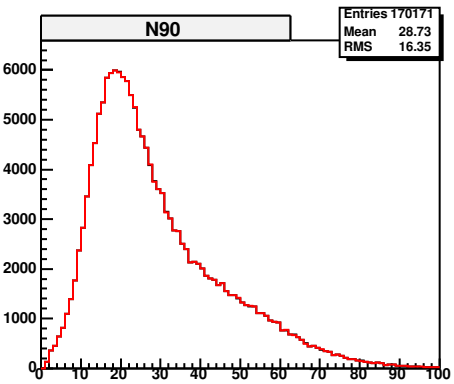


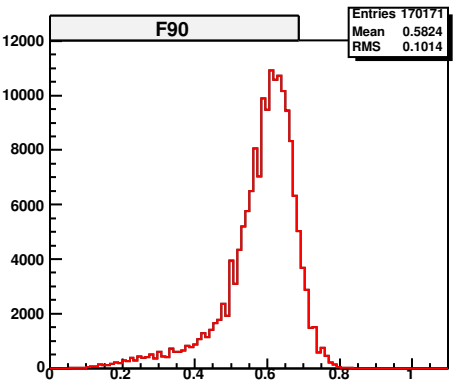


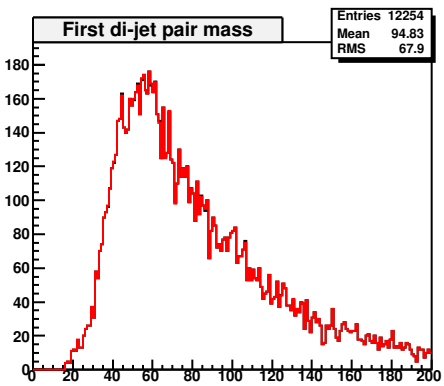


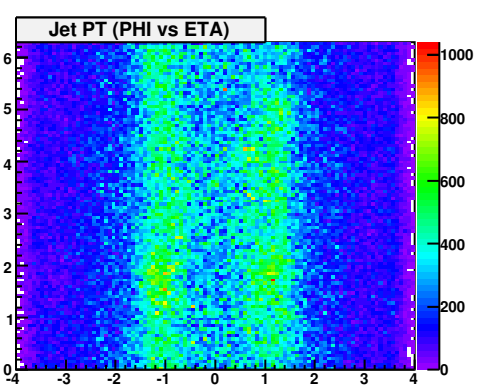




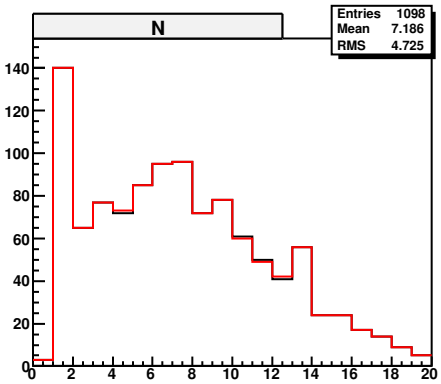


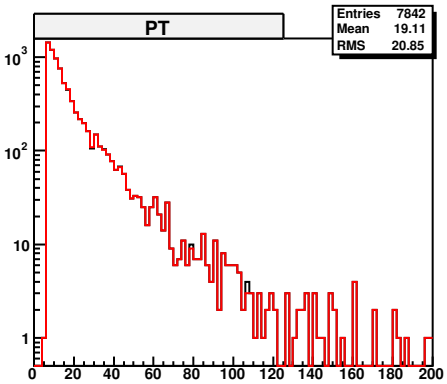


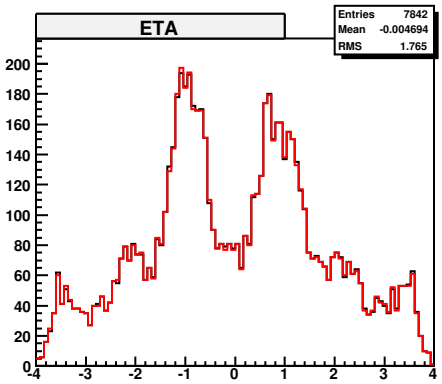


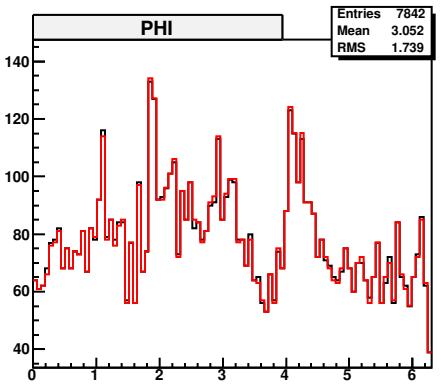


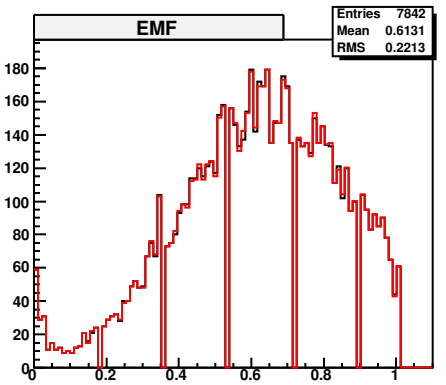
Jets (Cone R 0.7 (standard cuts))

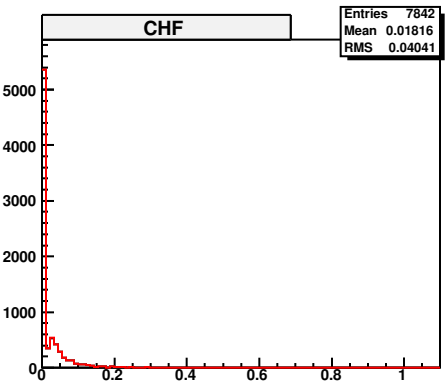


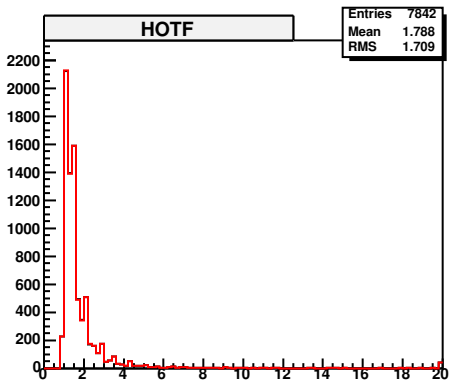


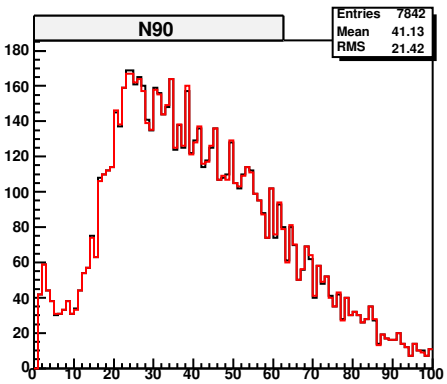


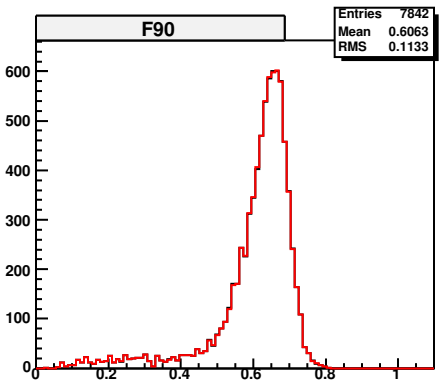


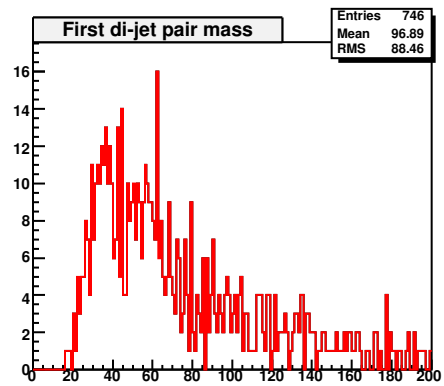


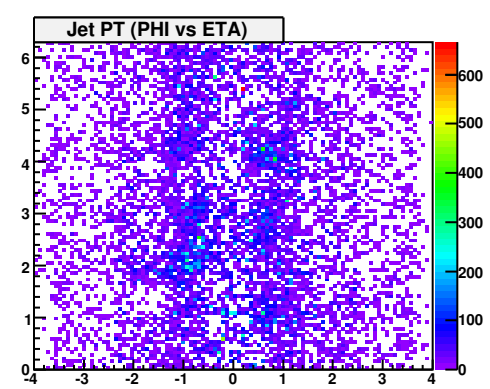




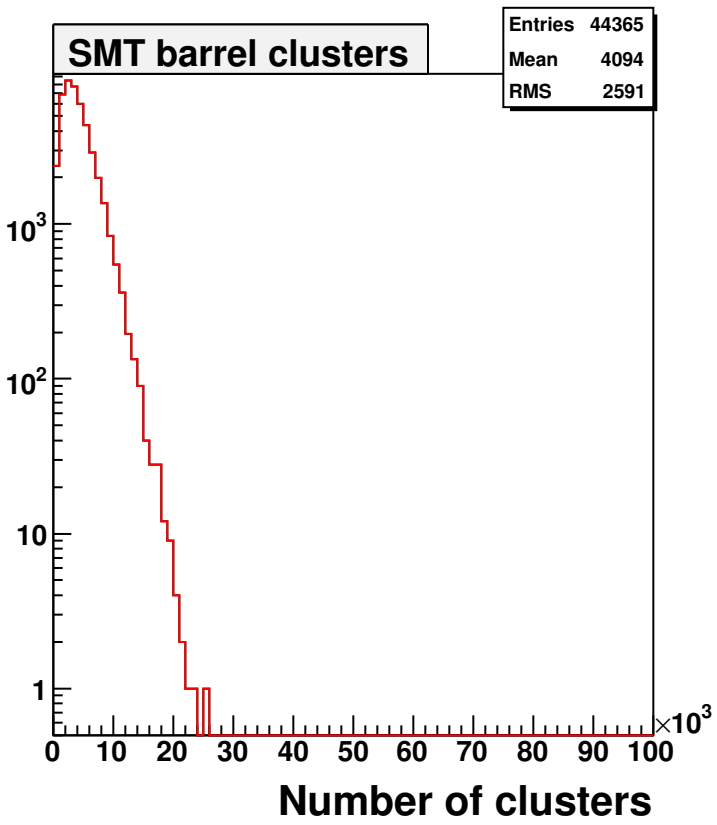


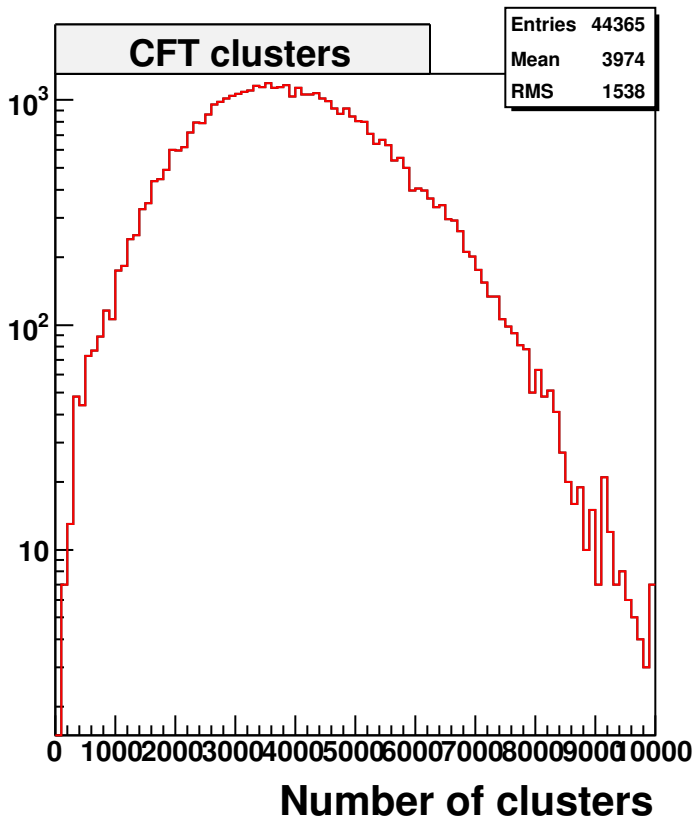


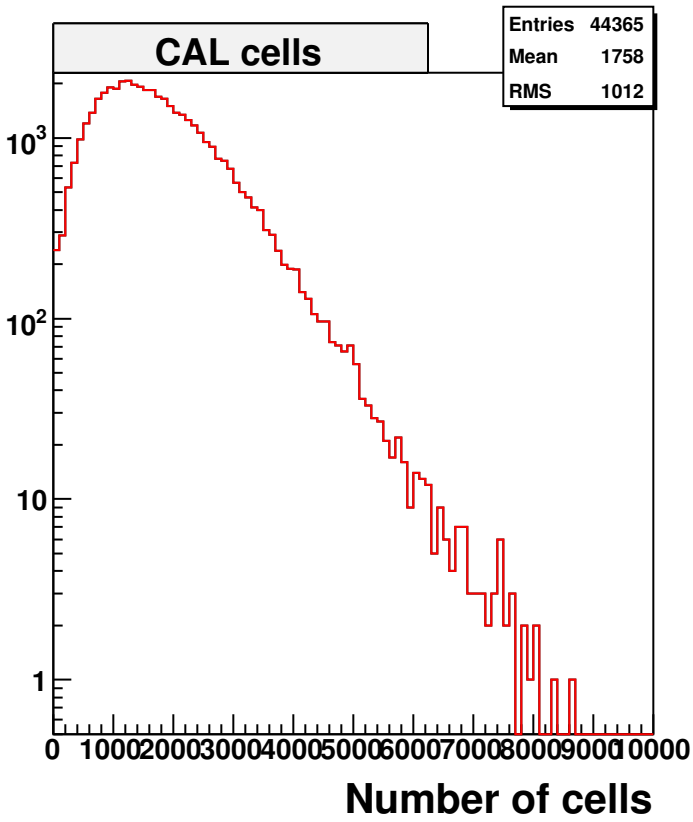


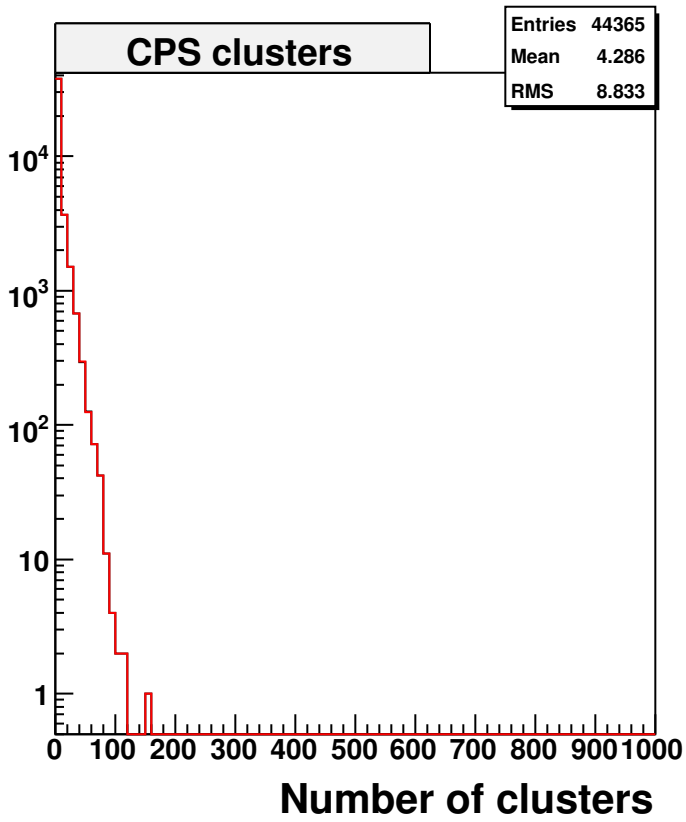


Jets (Cone R 0.7 (standard cuts, MET>30))

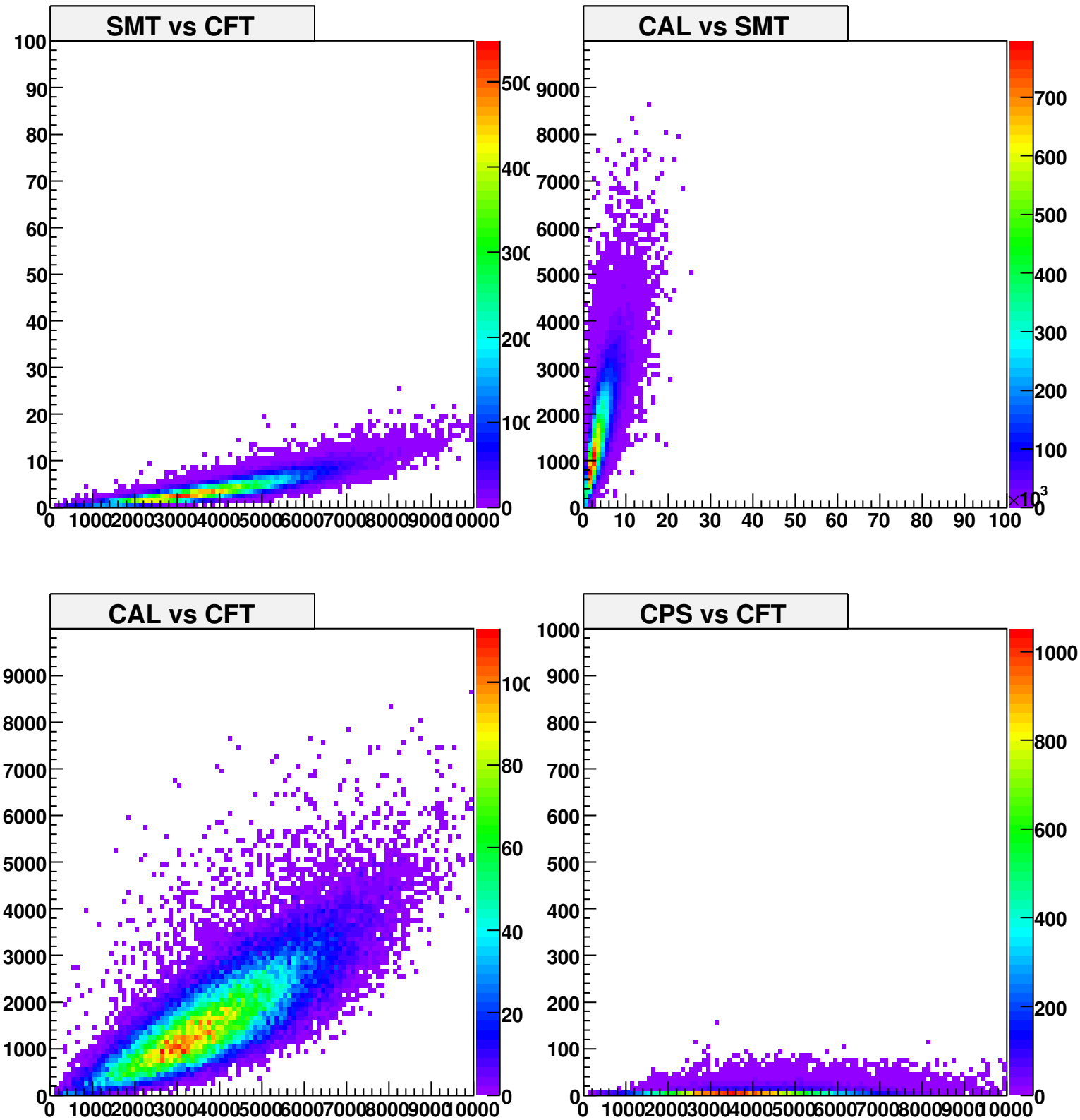


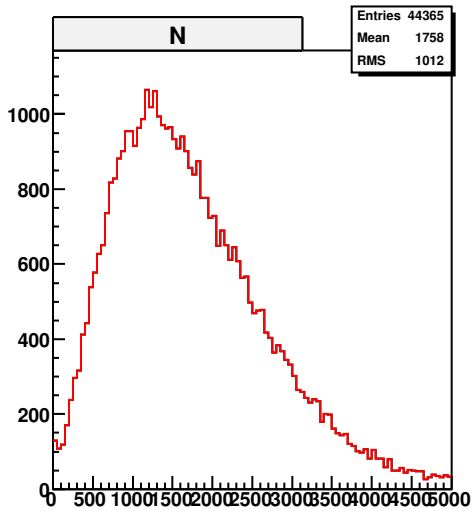


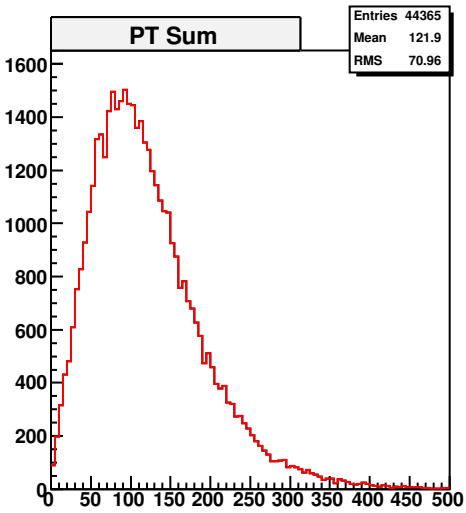


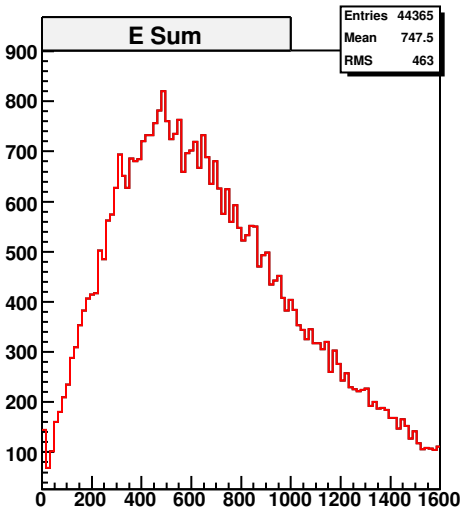


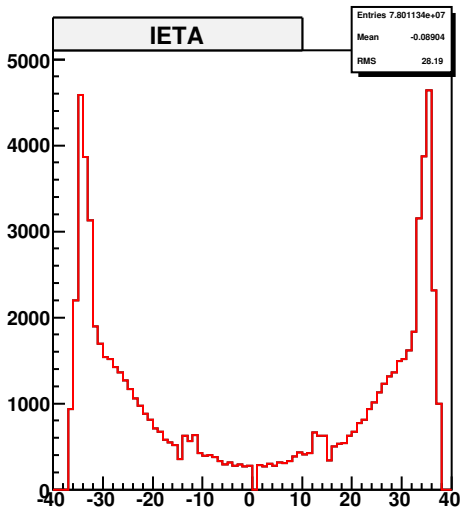
Detector Occupancy (Detector)

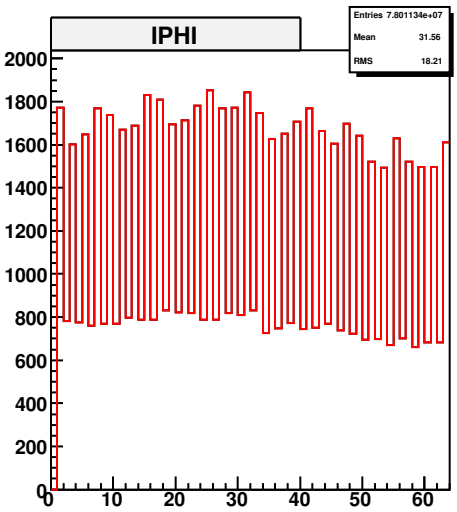

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

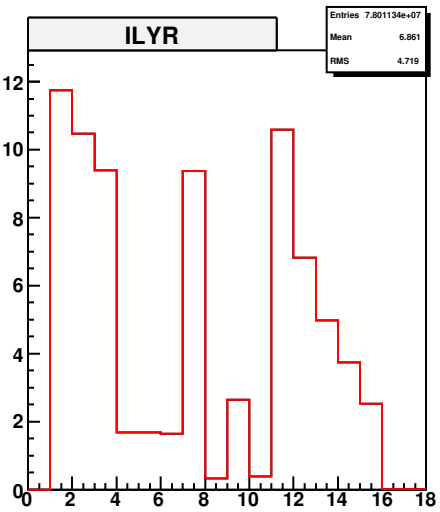


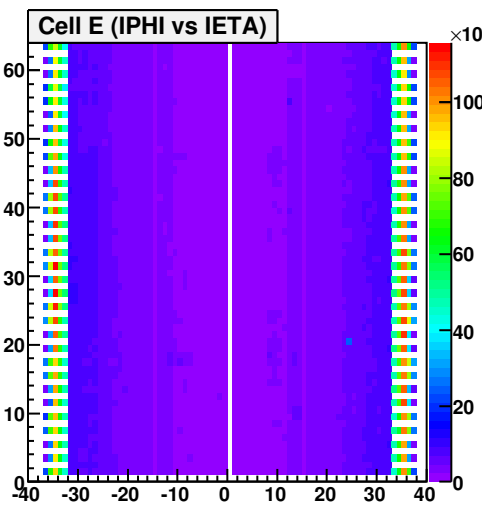


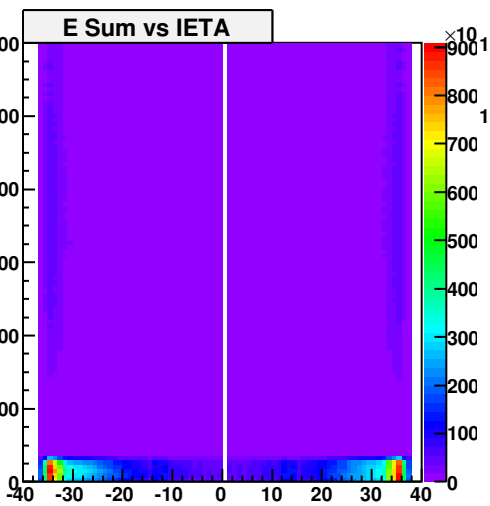


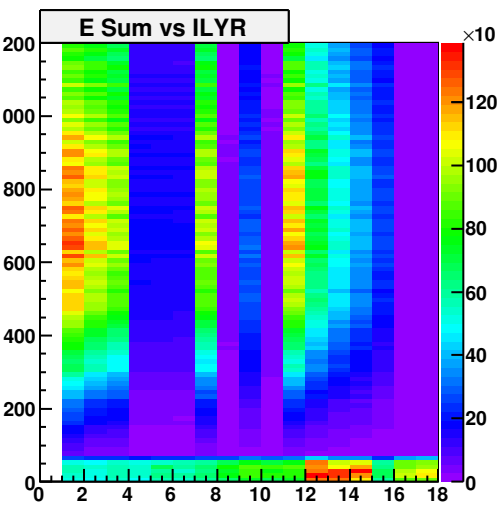




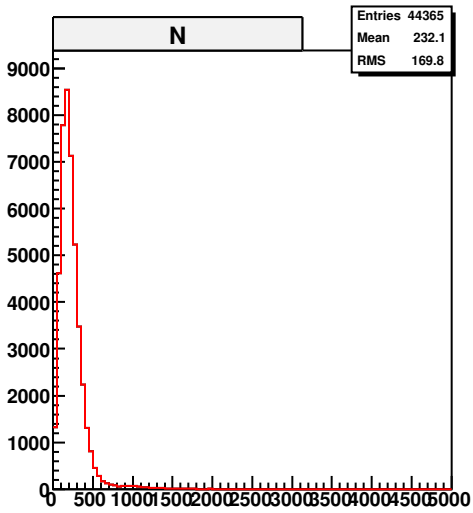


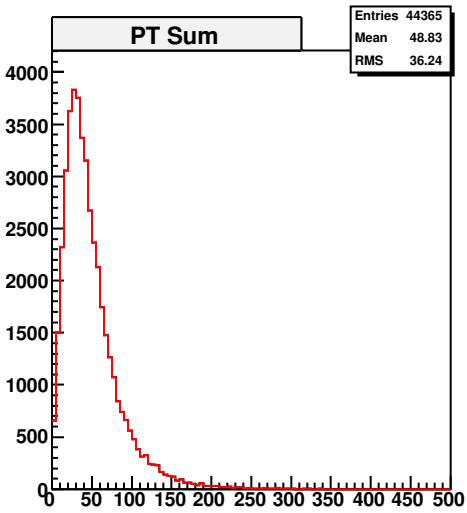


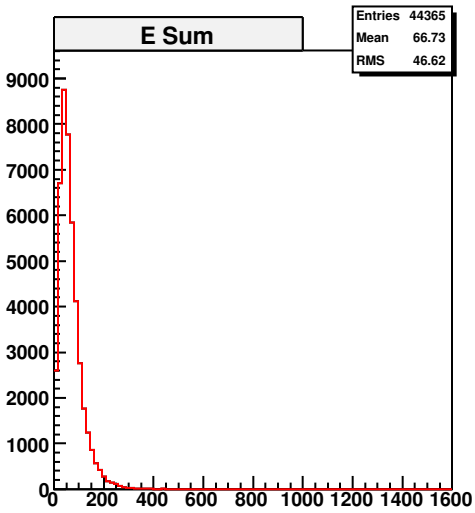


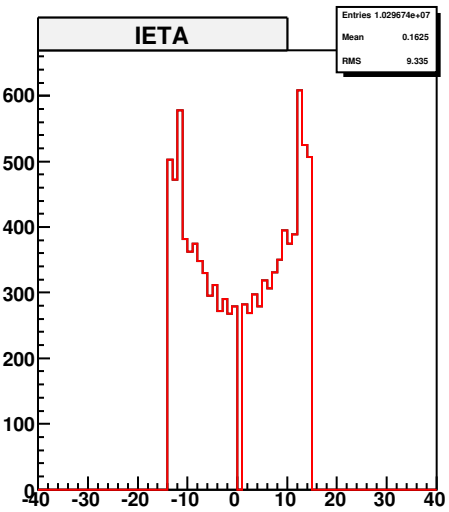


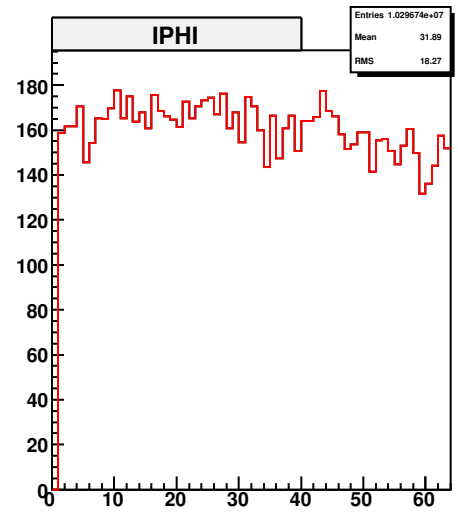
Calorimeter (All cells)

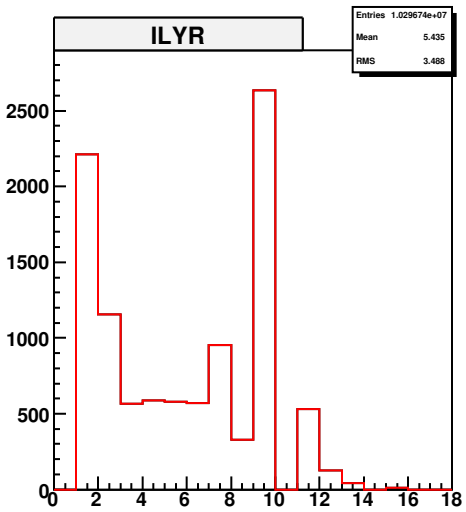


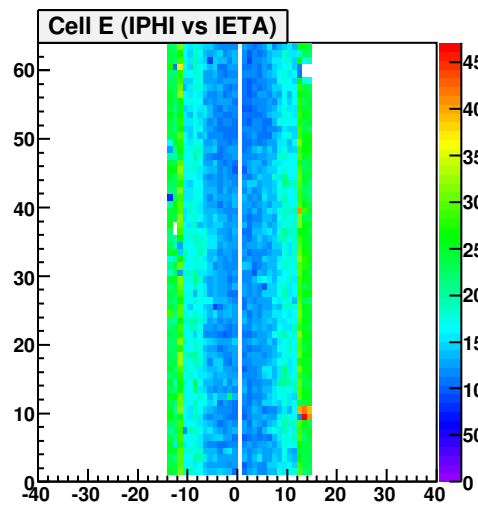


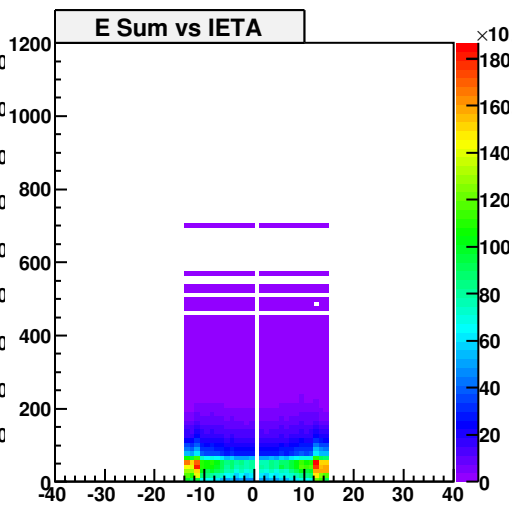


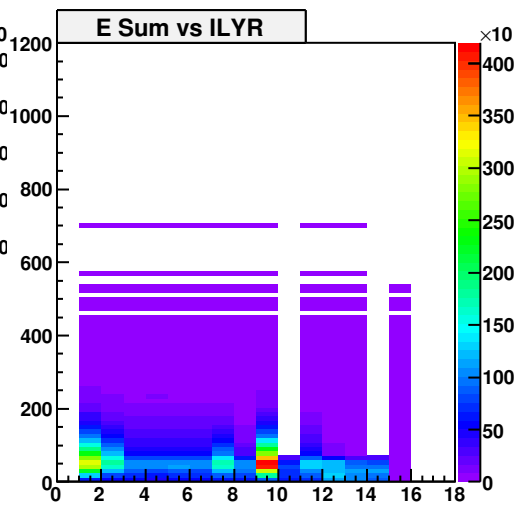




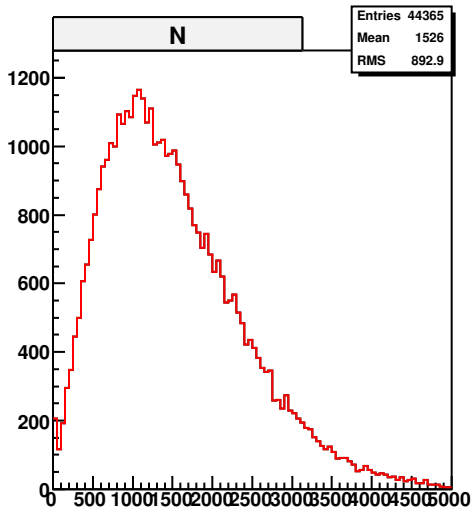


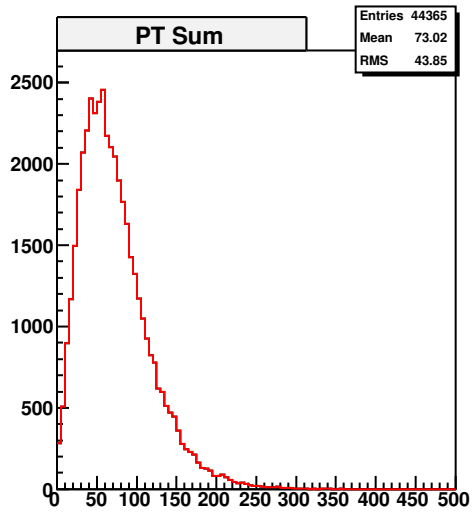


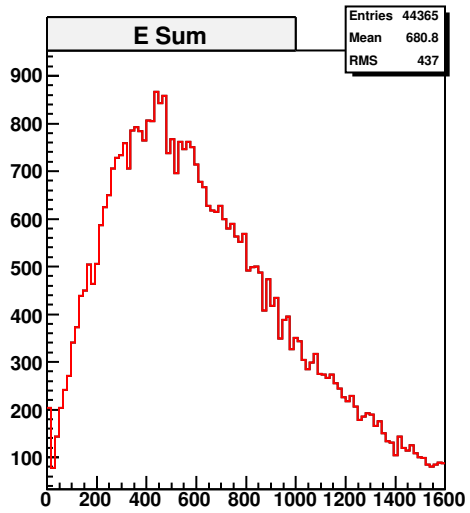


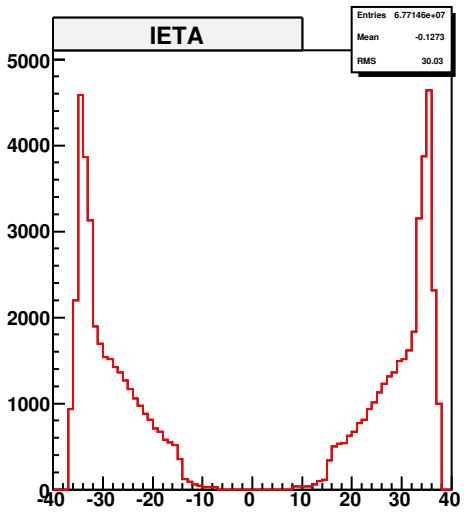


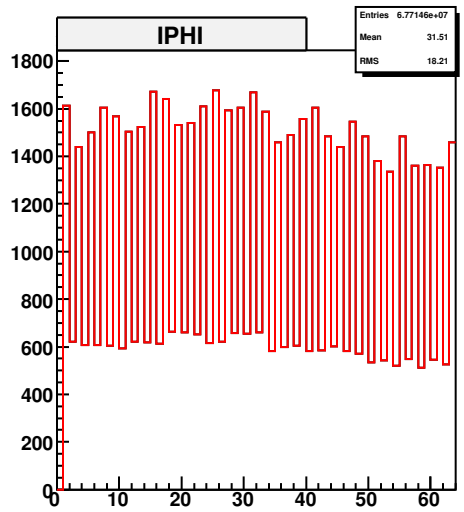
Calorimeter (All CC cells)

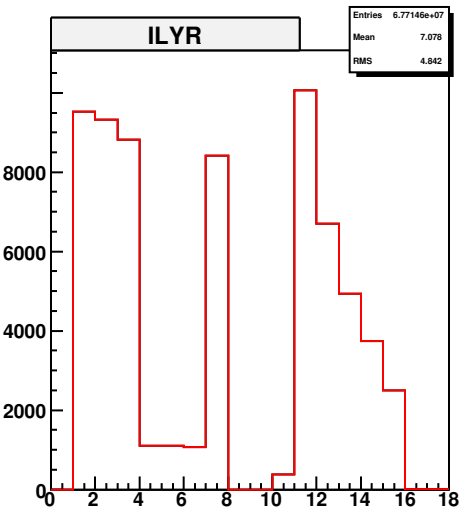


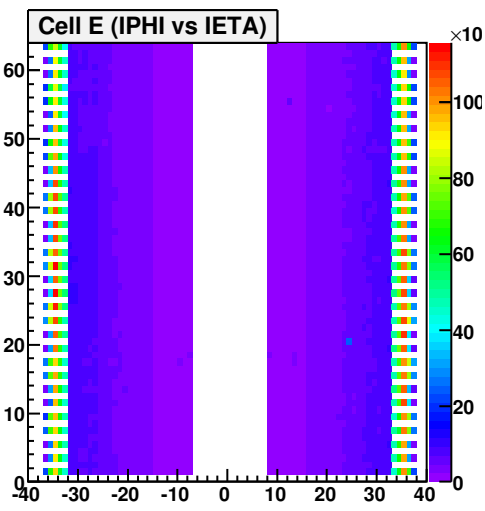


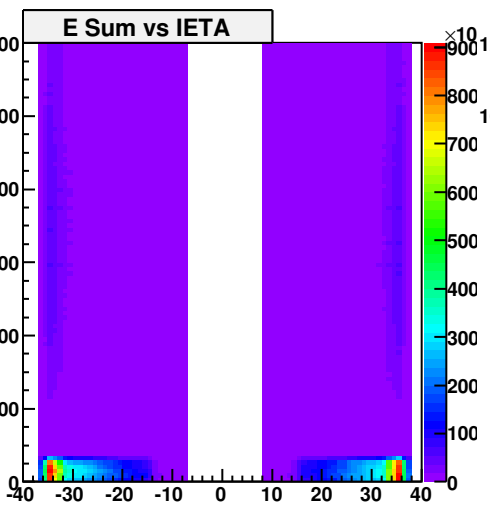


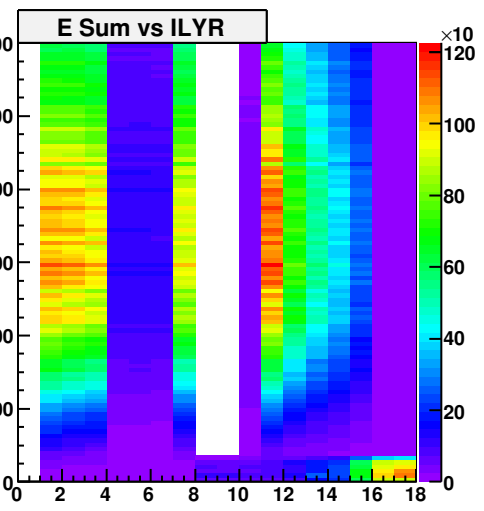




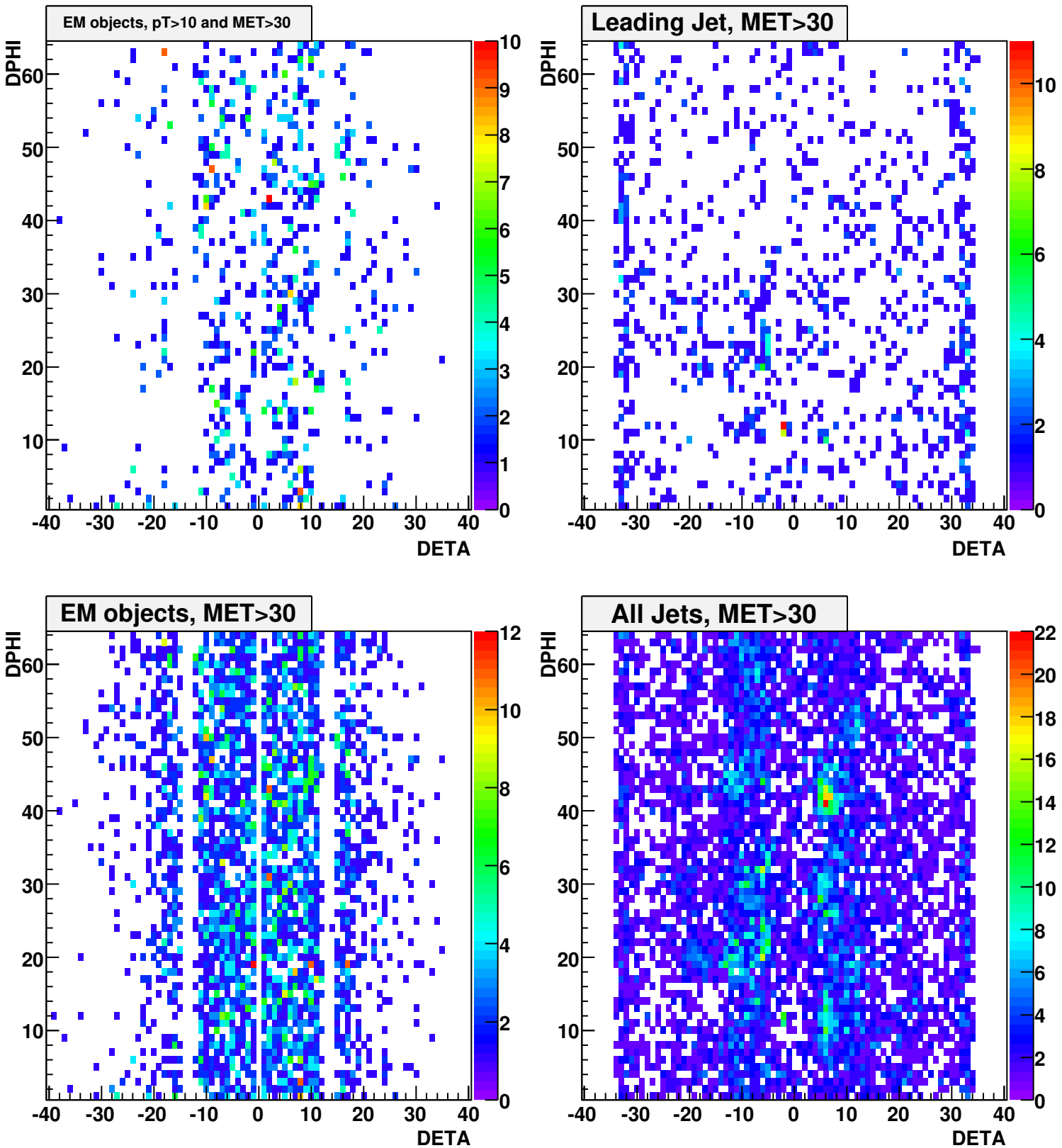




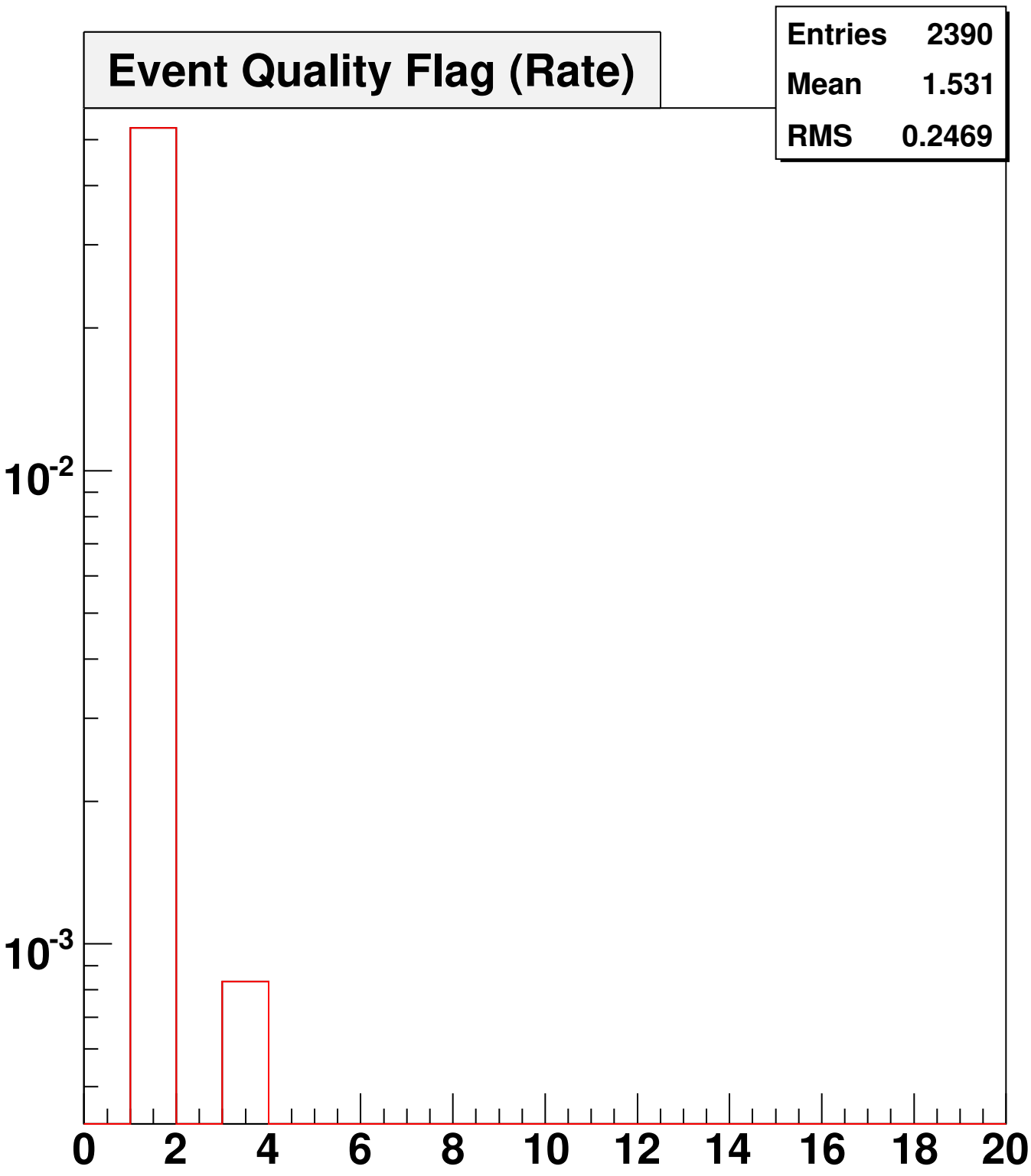


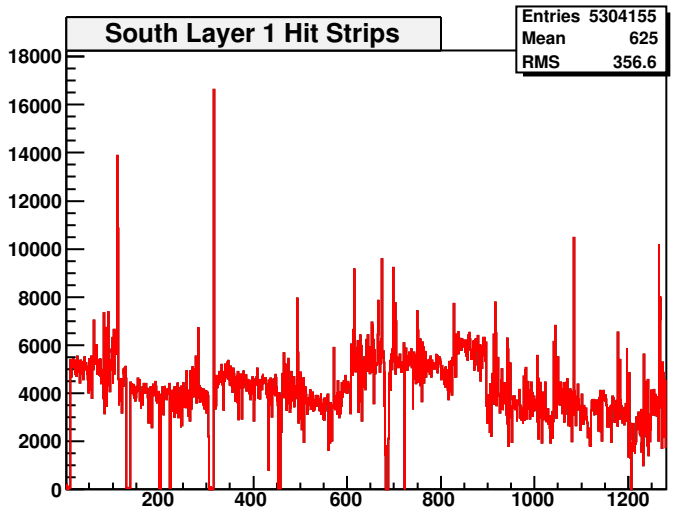


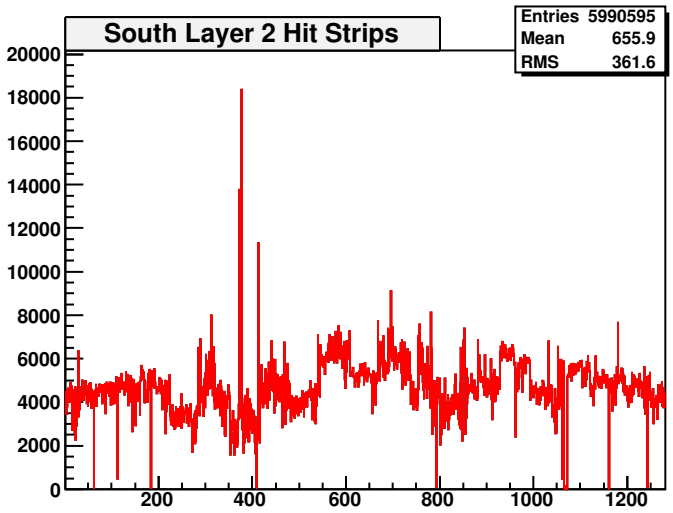
Calorimeter (All EC cells)

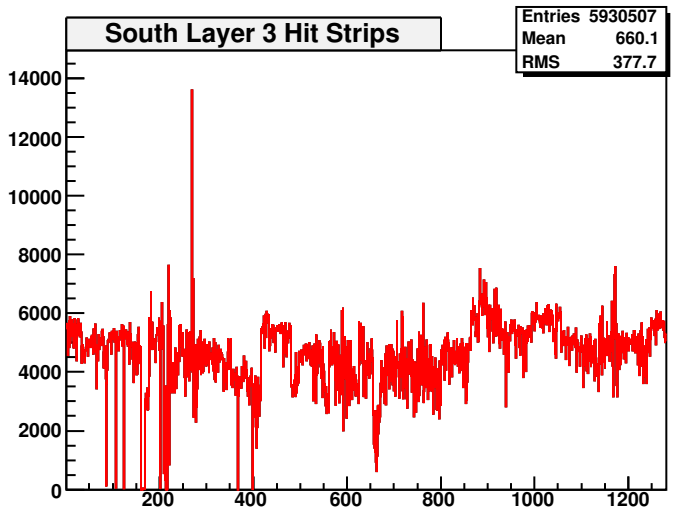


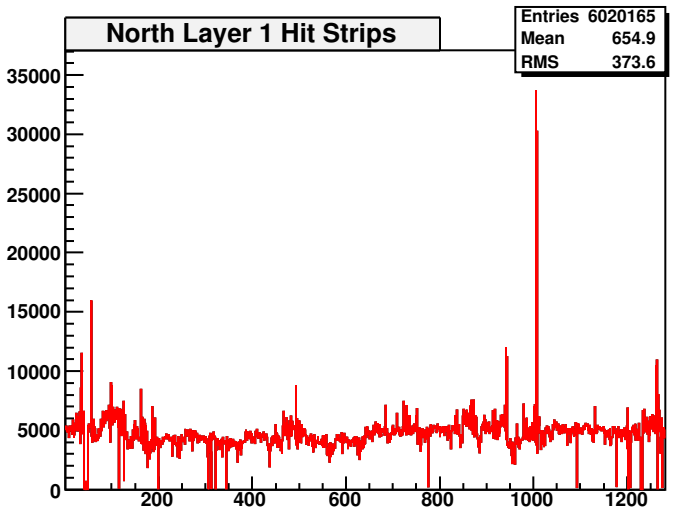
Cal Objects with MET>30 (All cells)

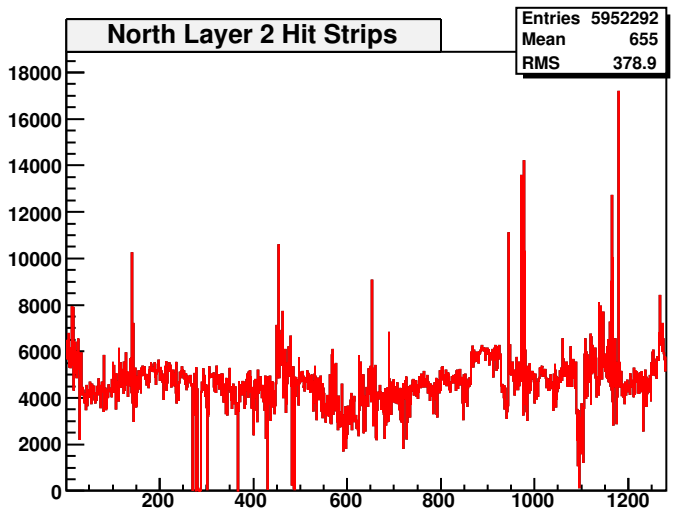

Event Quality Flag (Rate)
Entries 2390
Mean 1.531
RMS 0.2469
10-2
10-3
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

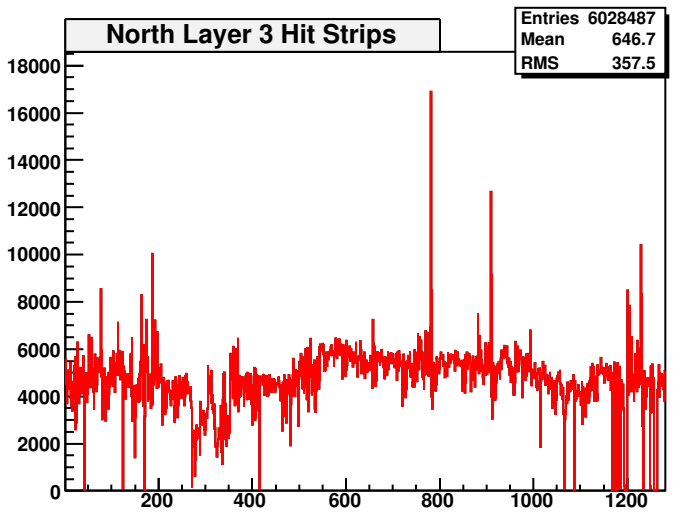




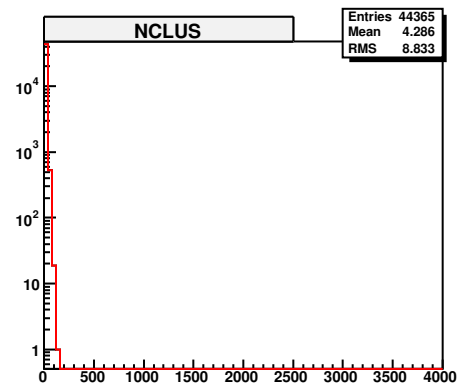


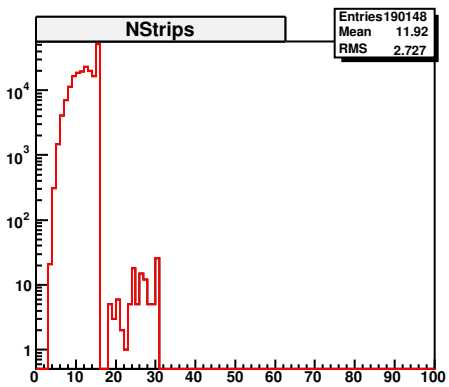


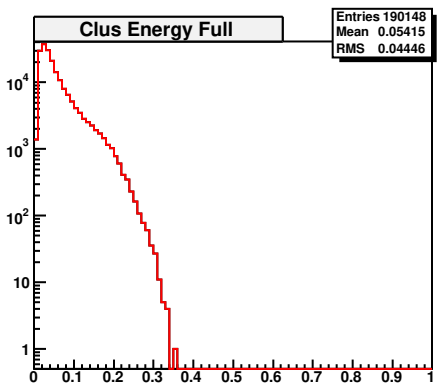


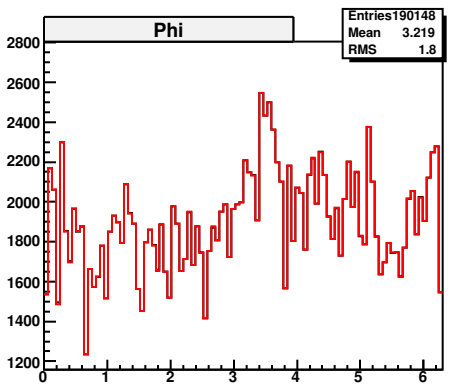


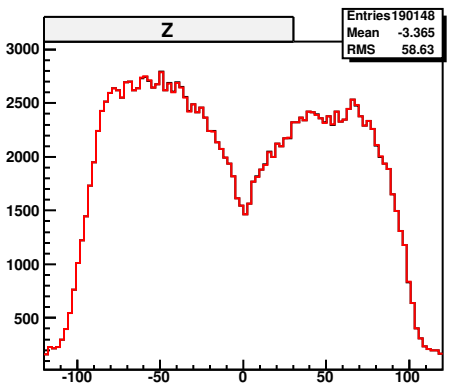
CPS Hit Strips (All Clusters)

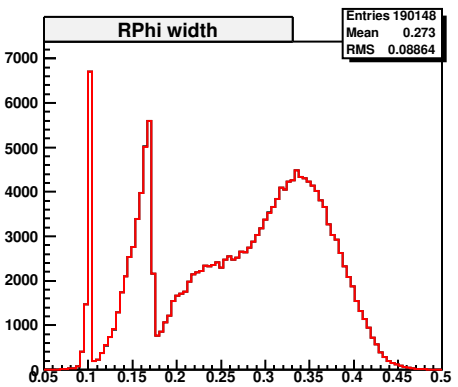


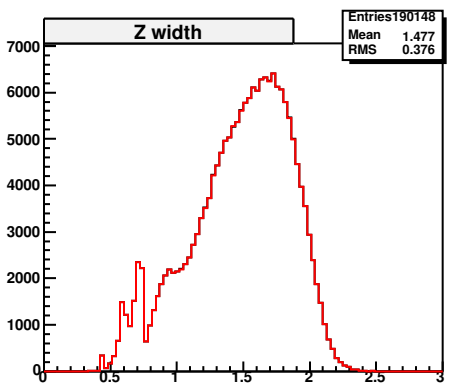


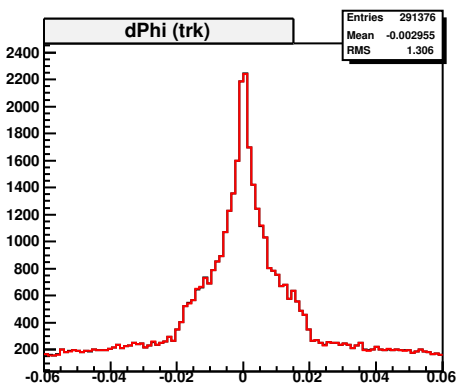


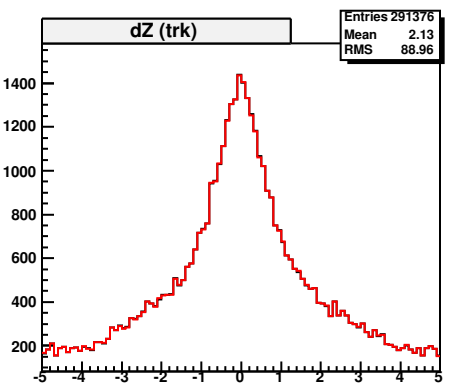


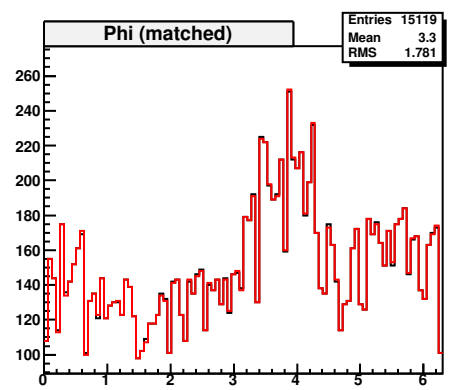


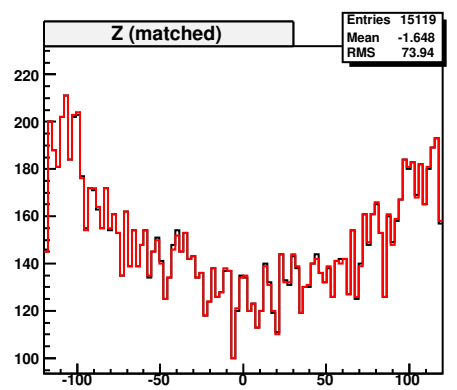




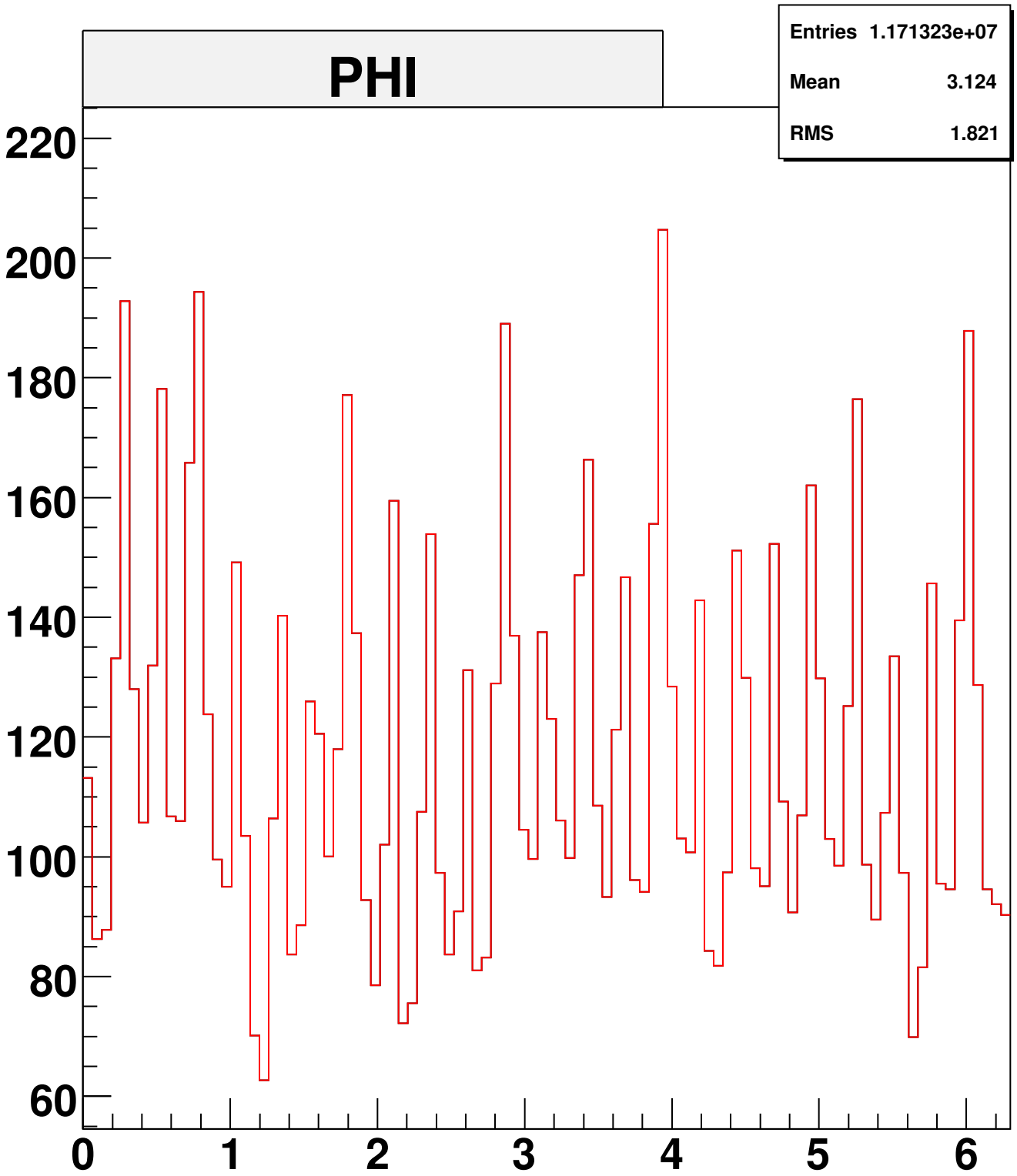


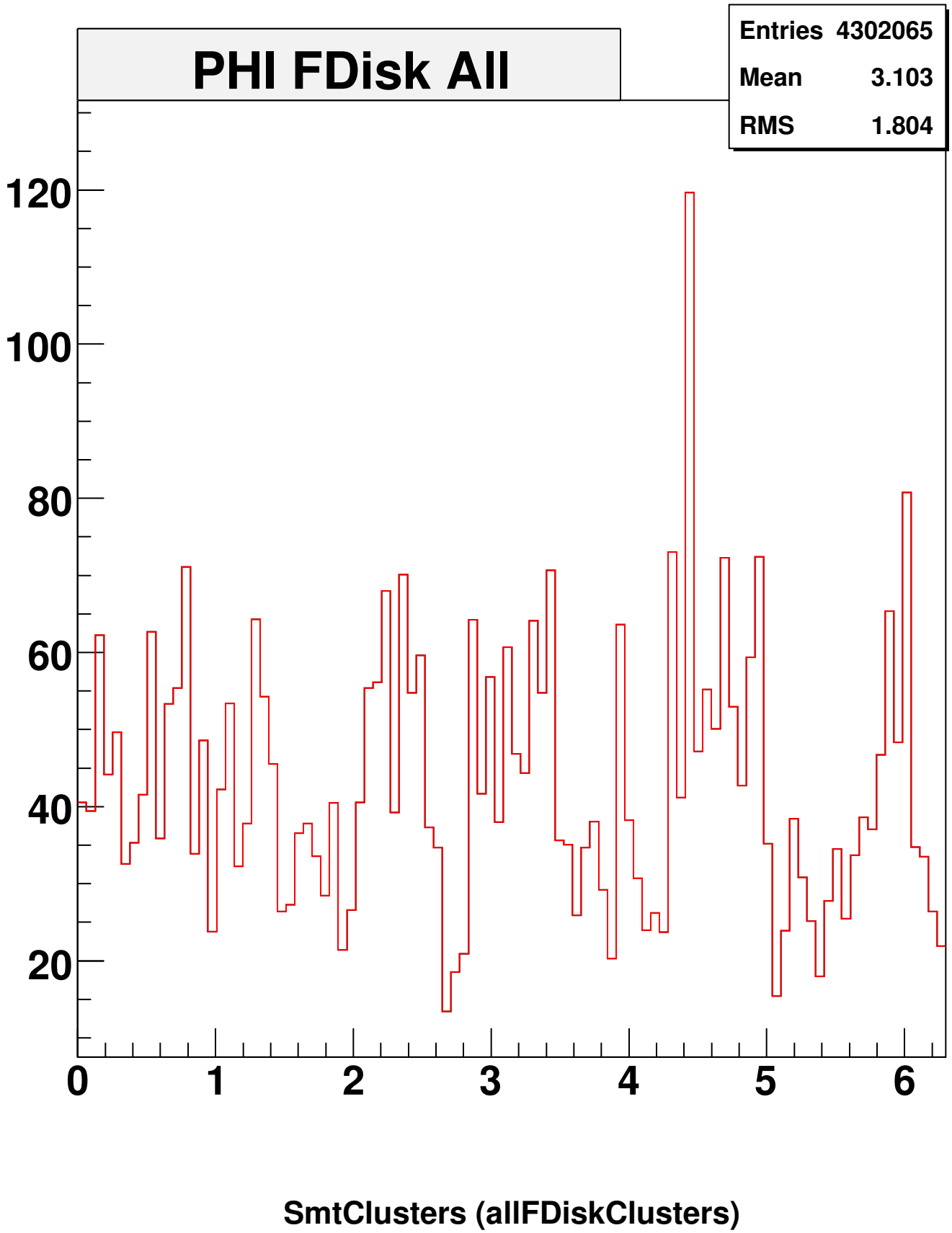






CPS Clusters (All Clusters)


PHI
Entries 1.171323e+07
Mean 3.124
RMS 1.821
220
200
180
160
140
120
100
80
60
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 4302065
Mean 3.103
RMS 1.804
120
100
80
60
40
20
0
1
2
3
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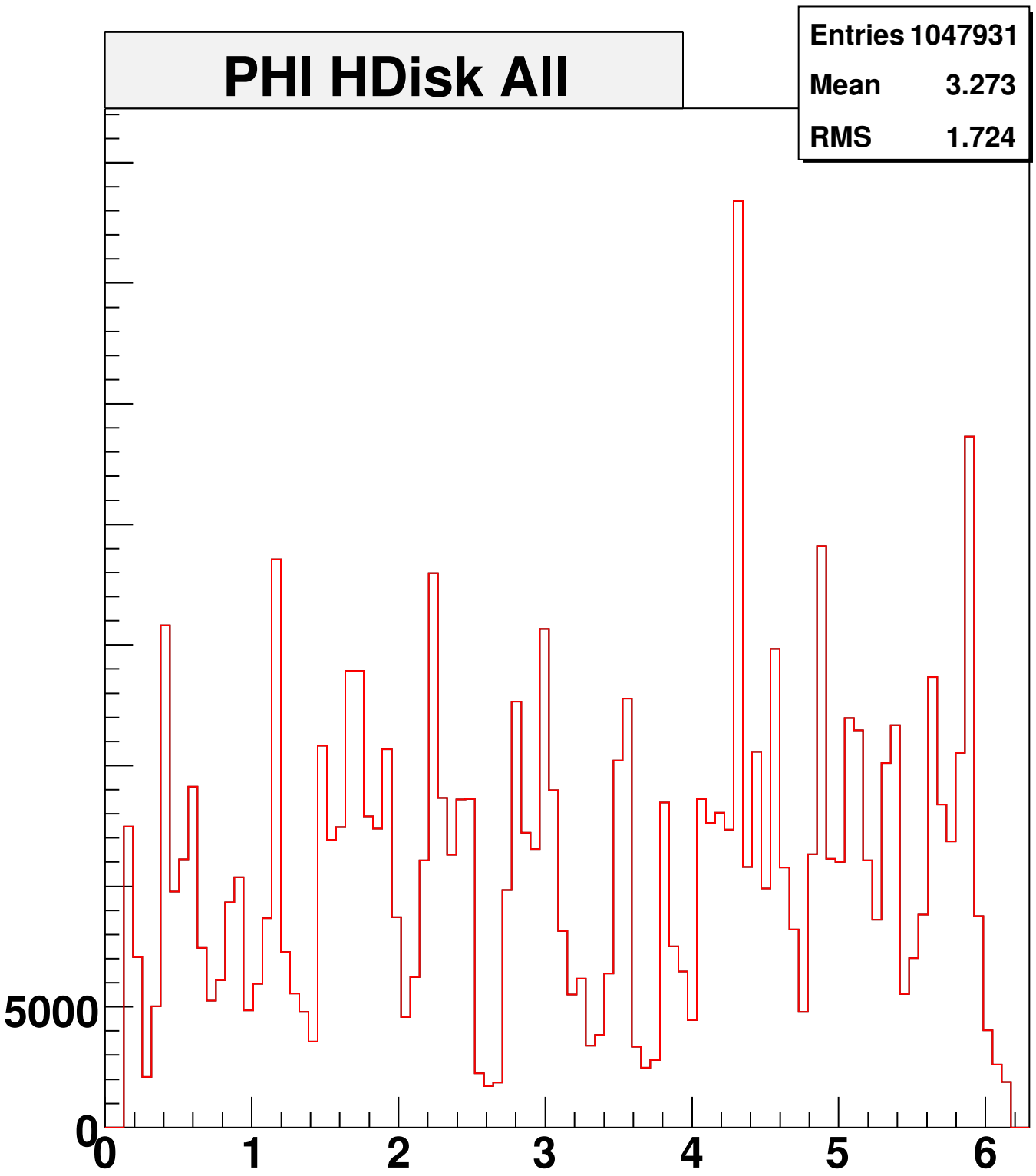
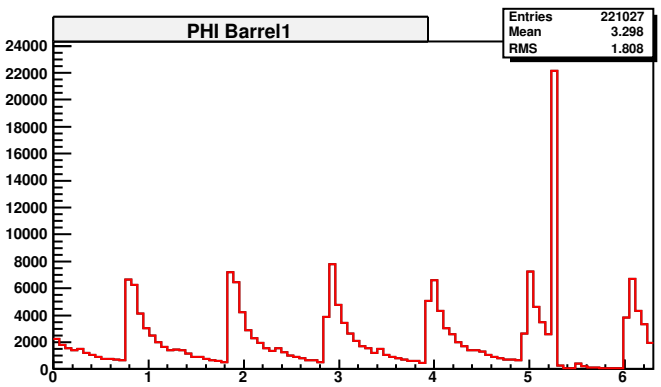
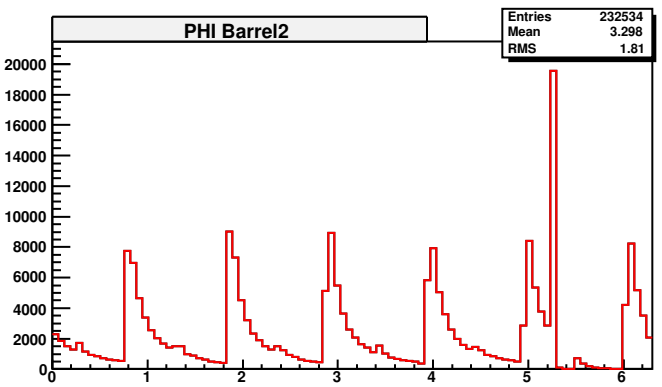
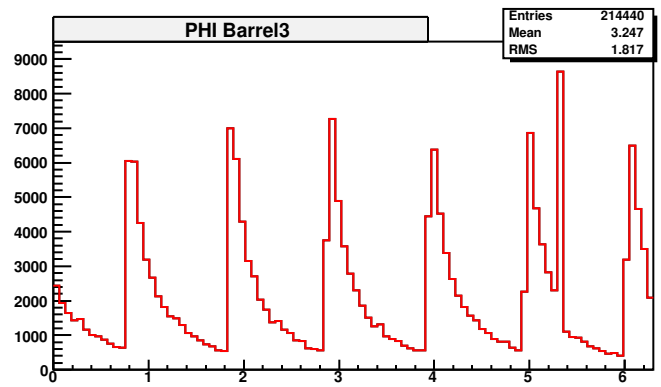
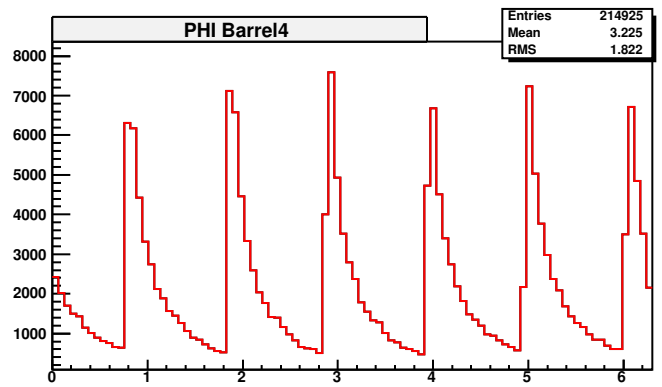
5
6
SmtClusters (allFDiskClusters)

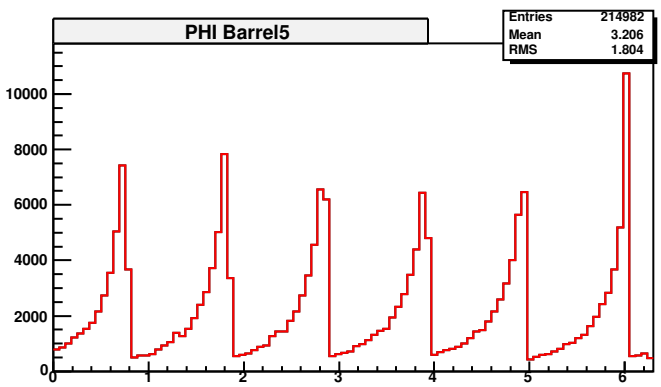

PHI HDisk All
Entries 1047931
Mean 3.273
RMS 1.724
5000
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

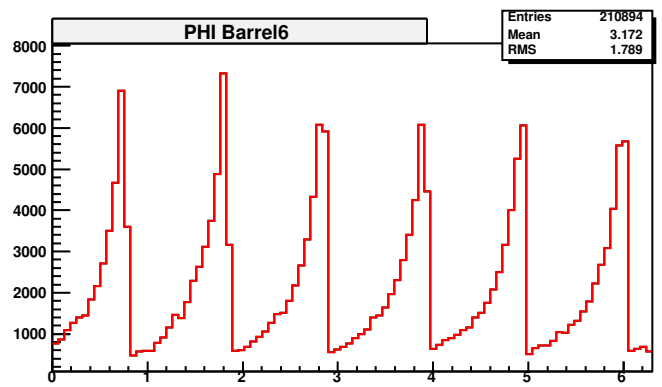


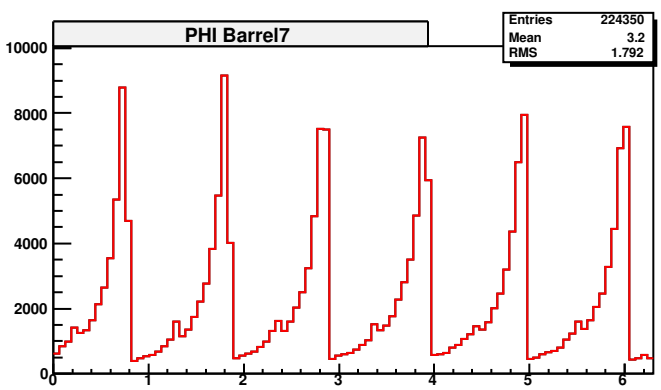


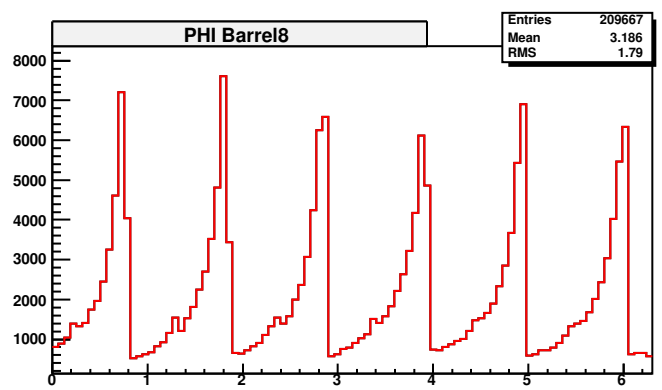




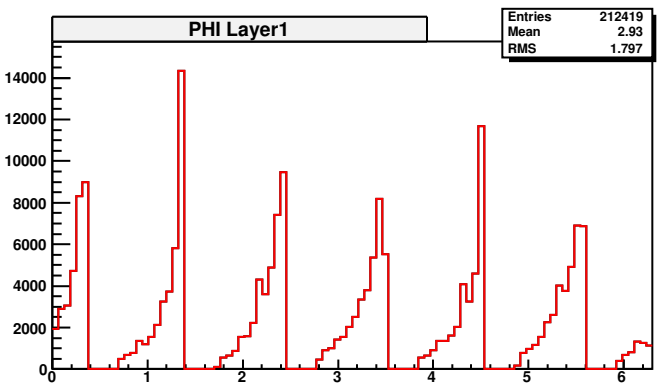


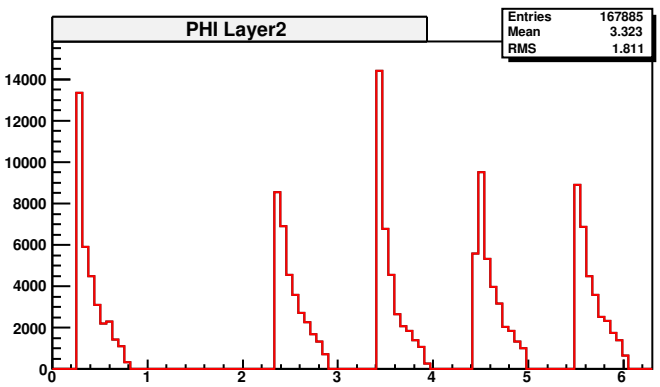


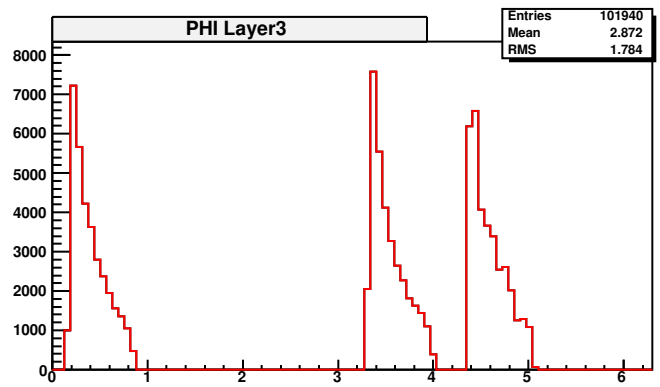


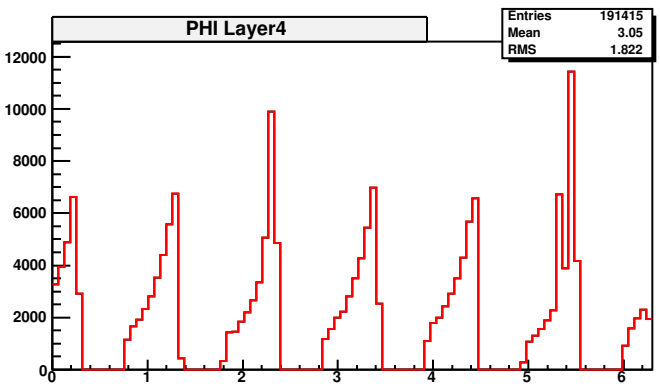


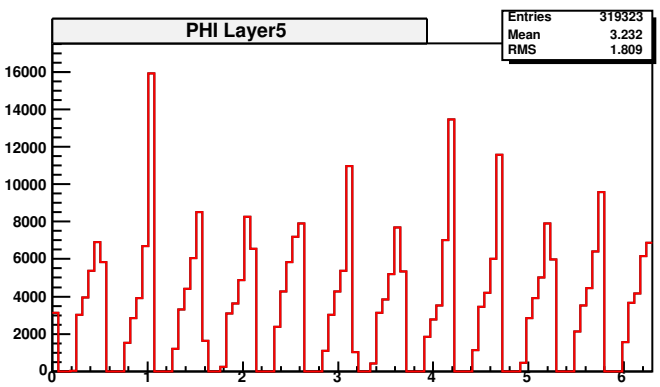
SmtClusters (ClustrLayer0)

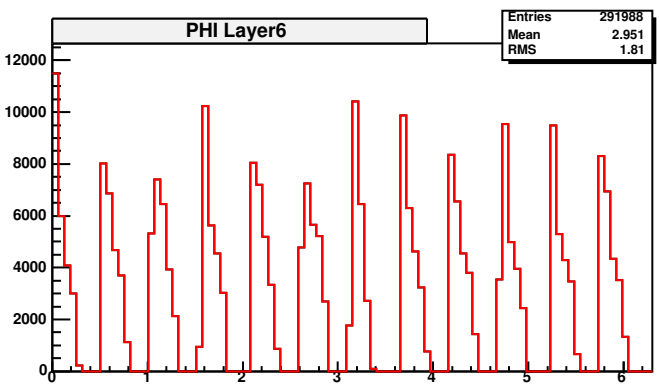


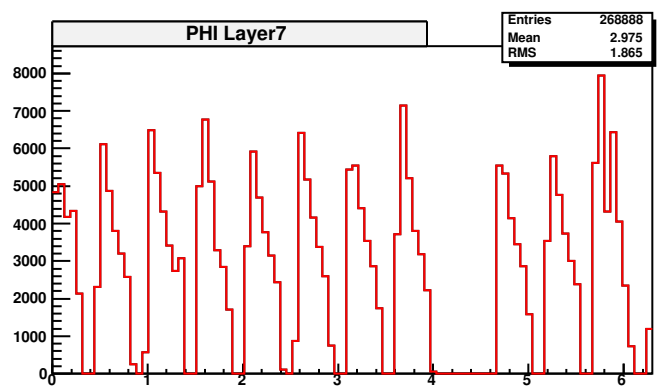


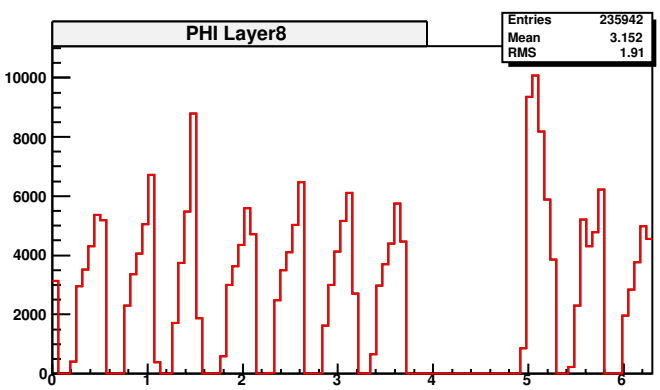




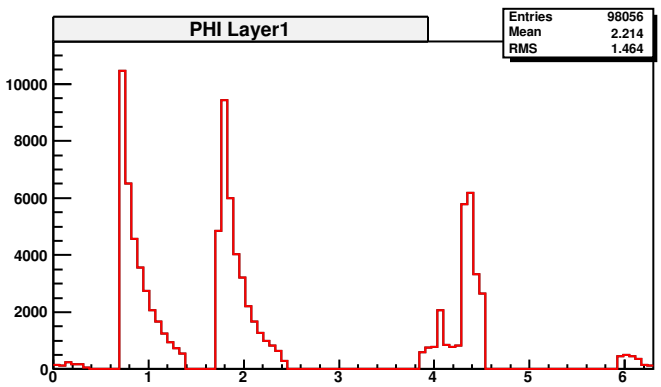


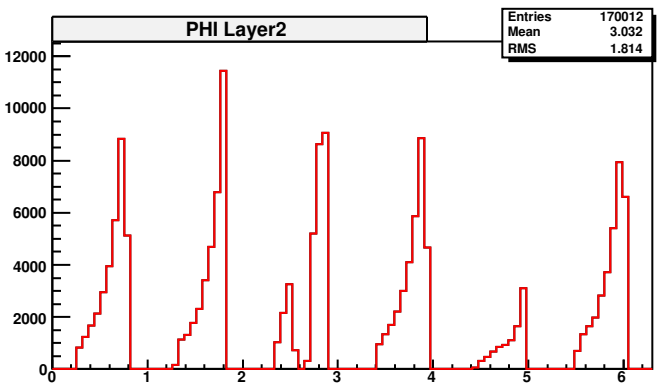


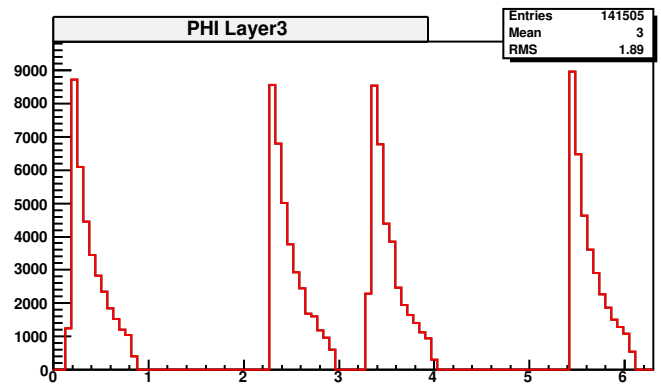


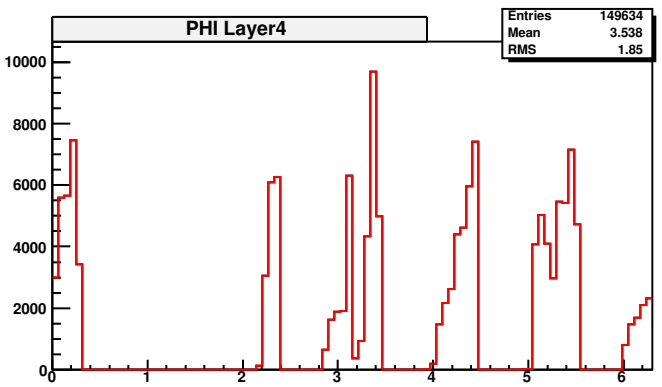


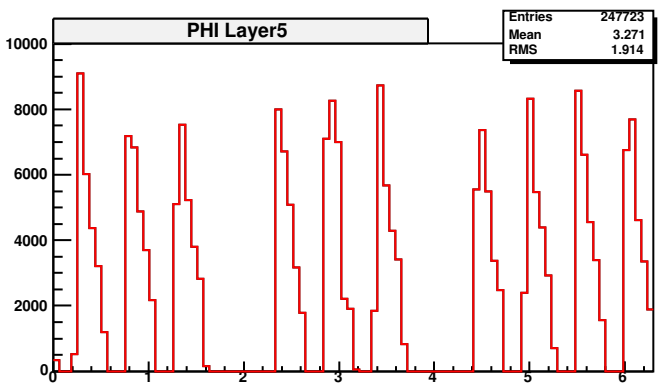
SmtClusters (ClustrBar1)

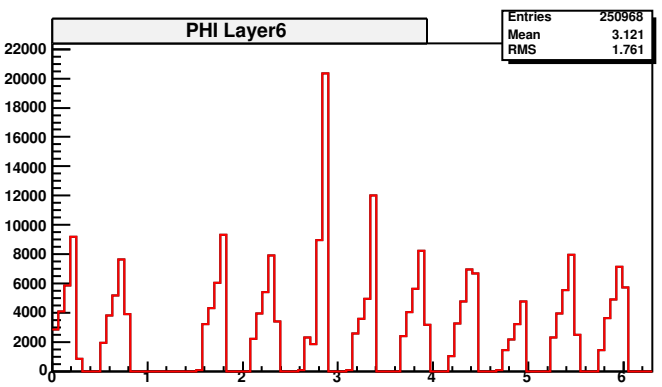


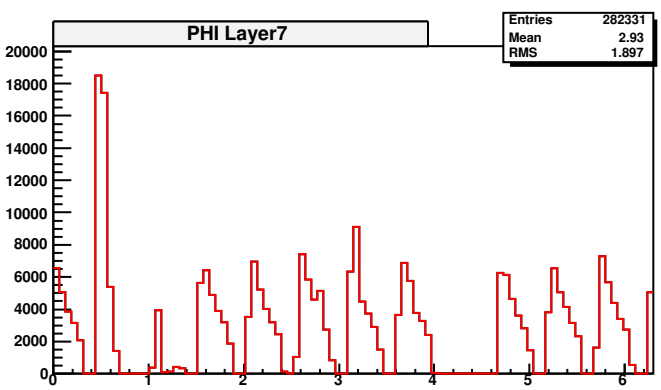


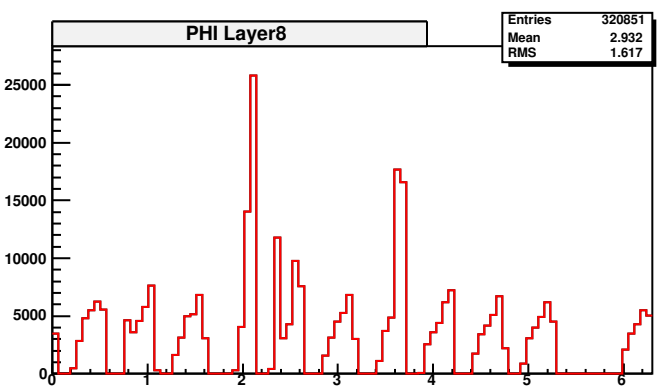




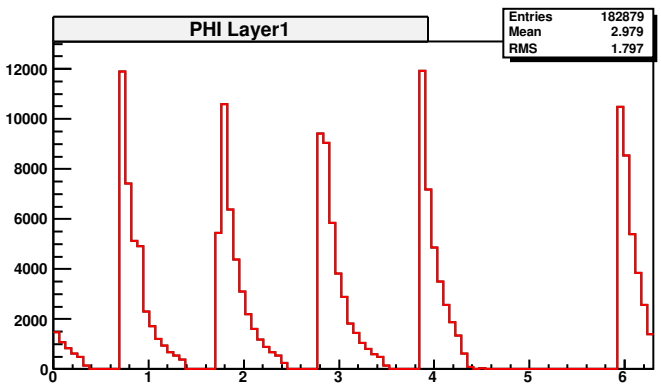


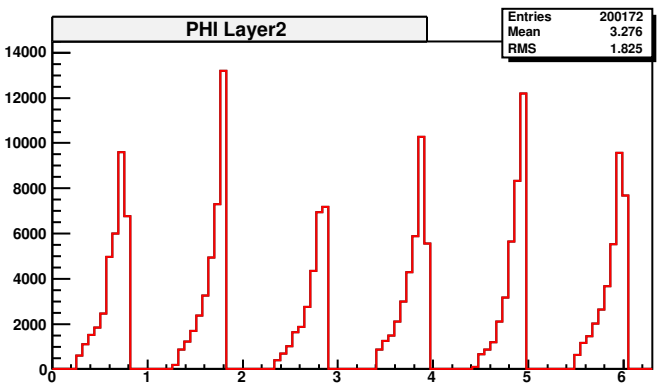


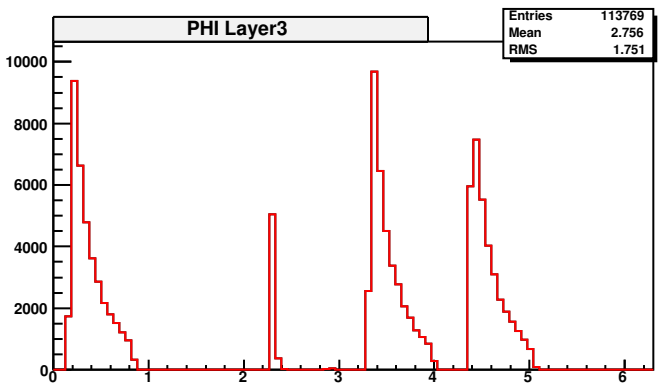


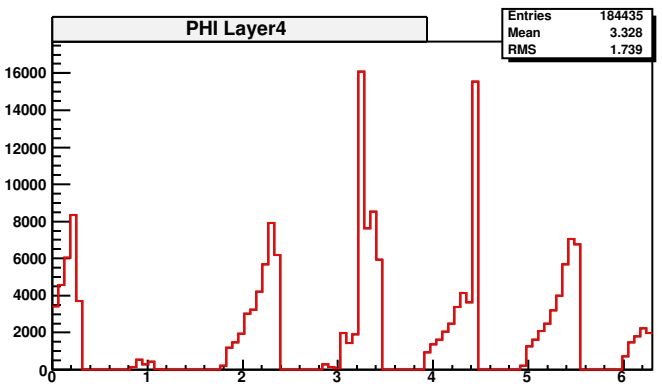


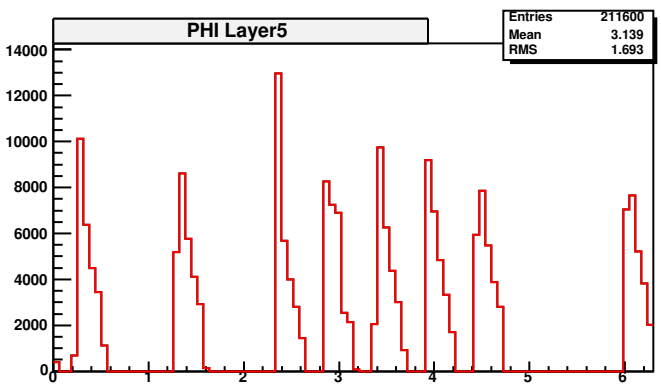
SmtClusters (ClustrBar2)

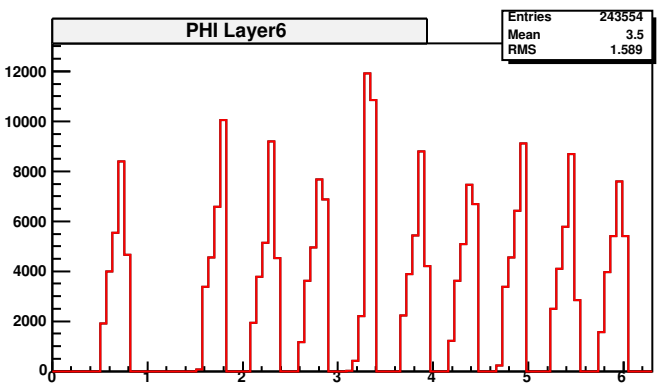


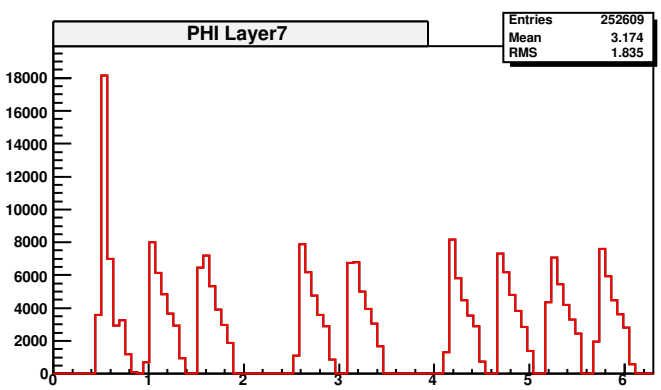


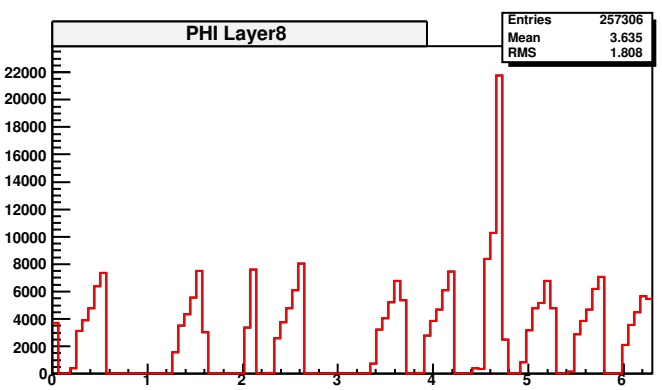




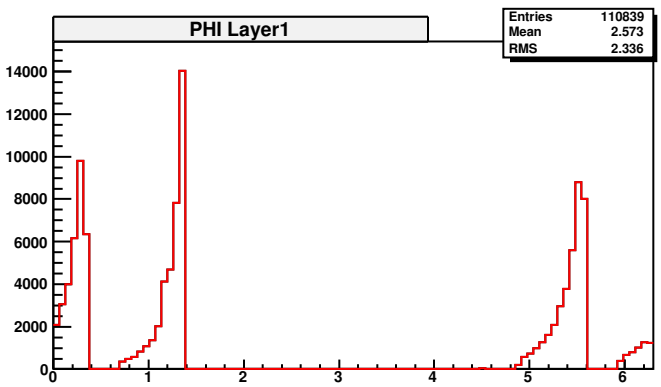


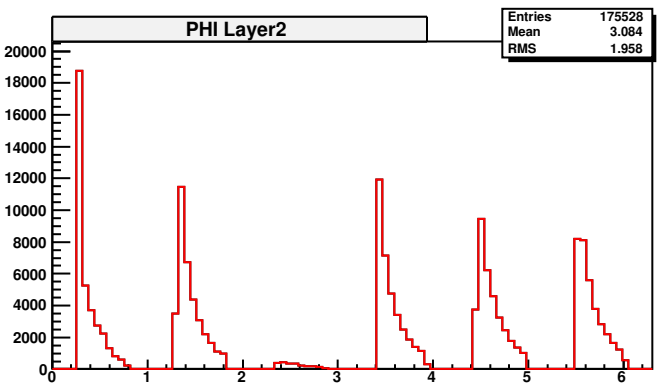


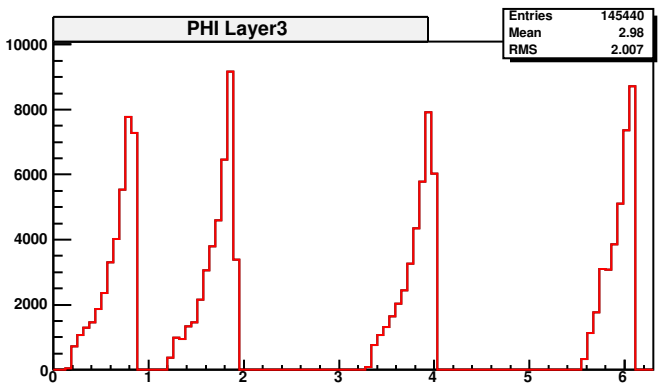


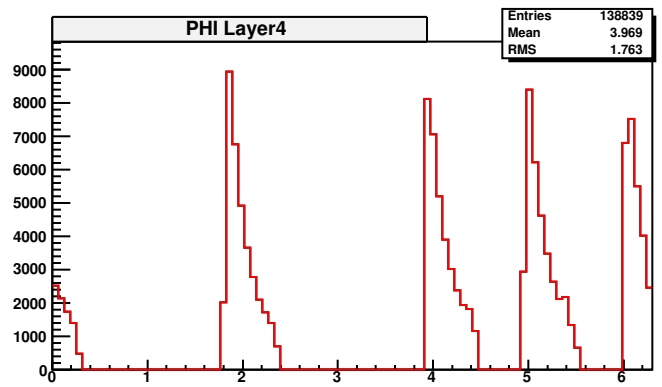


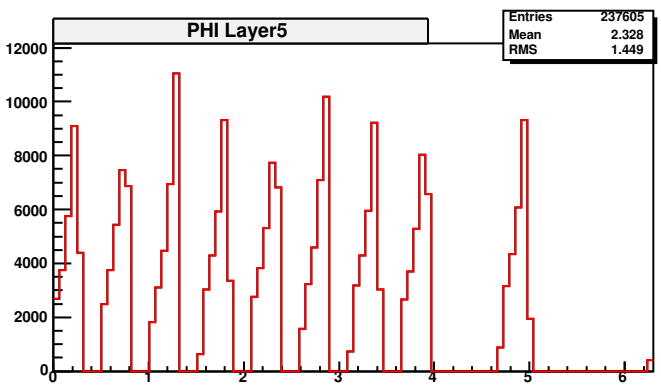
SmtClusters (ClustrBar3)

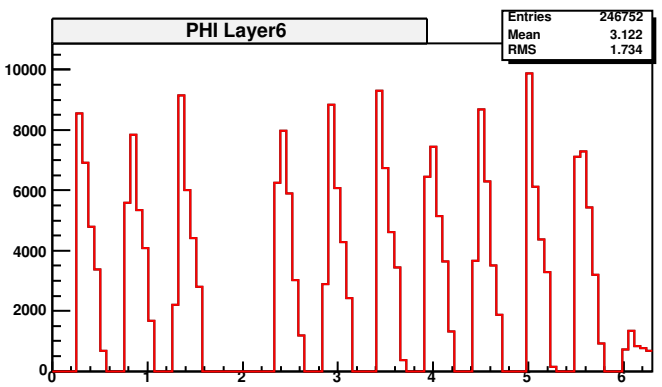


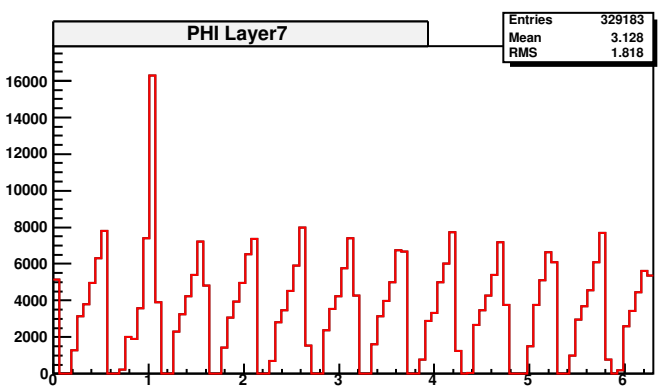


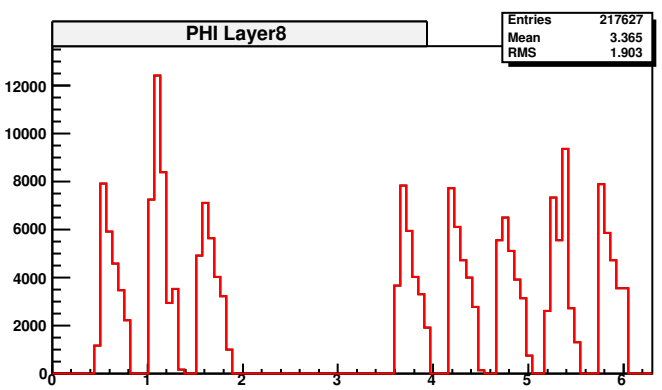




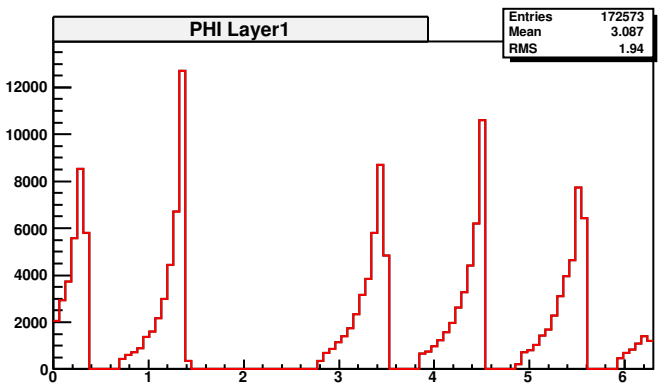


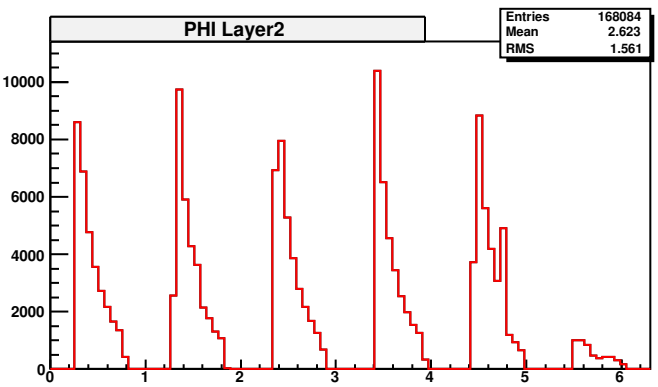


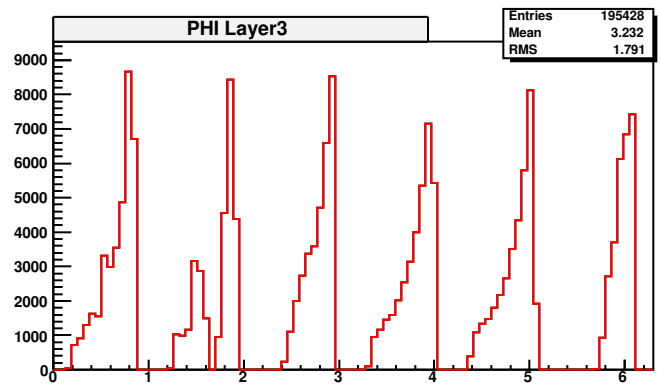


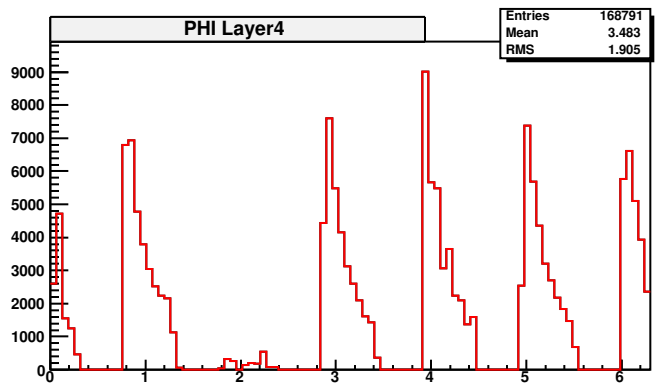


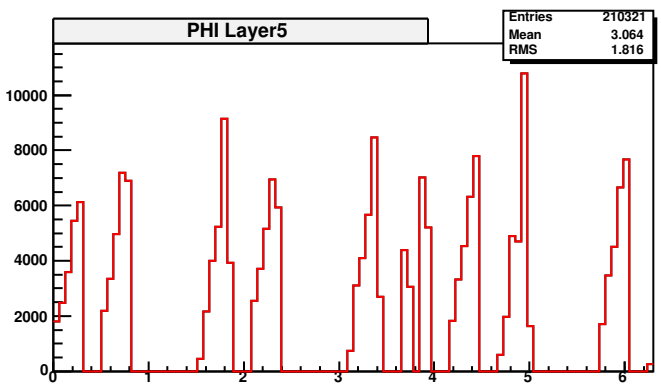
SmtClusters (ClustrBar4)

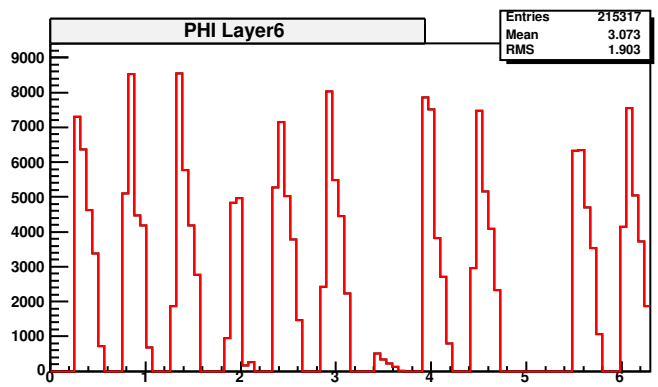


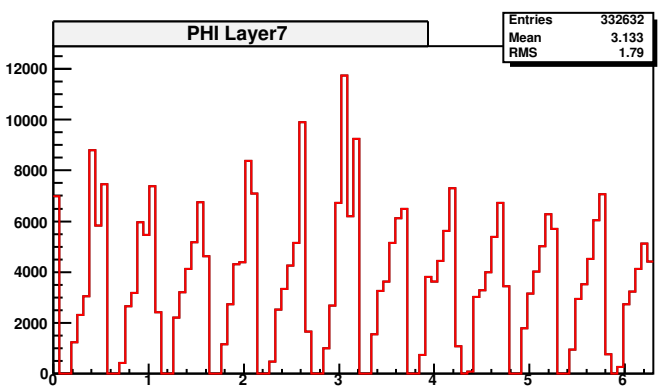


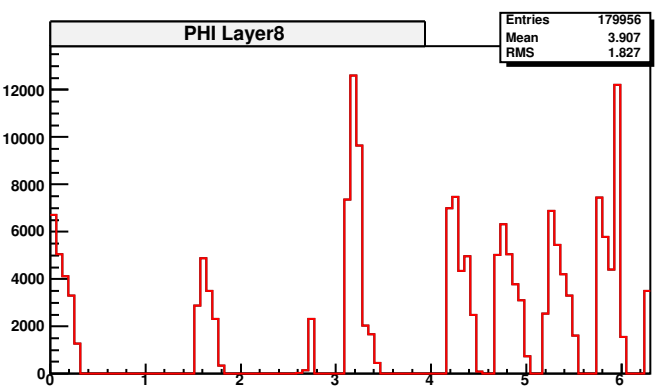




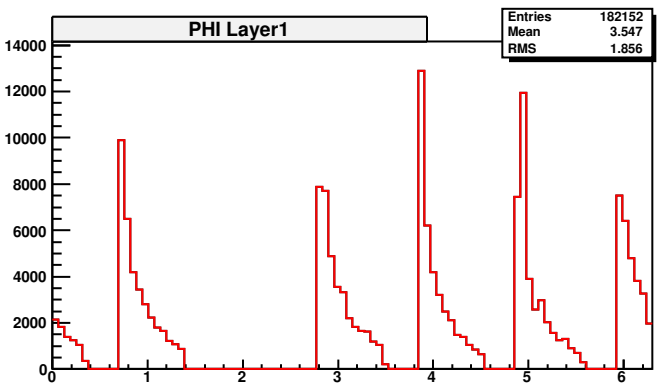


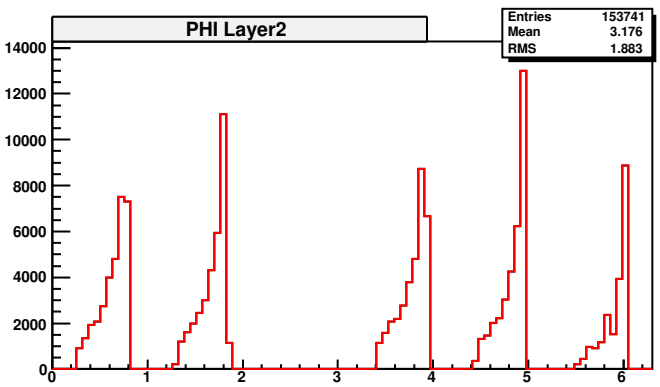


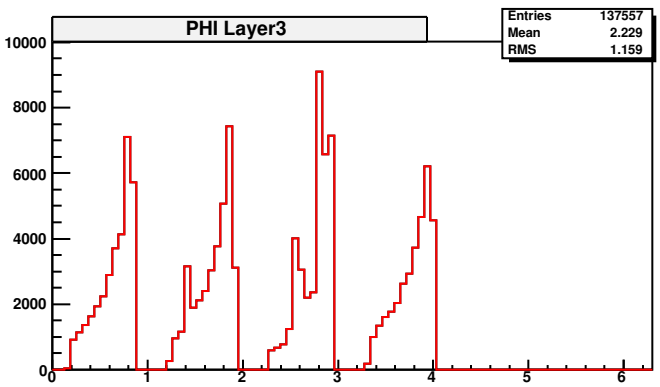


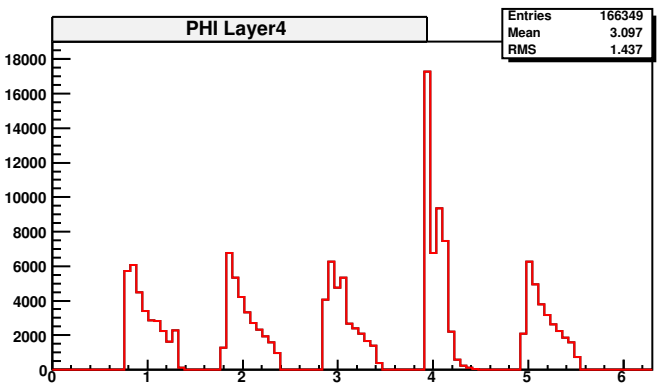


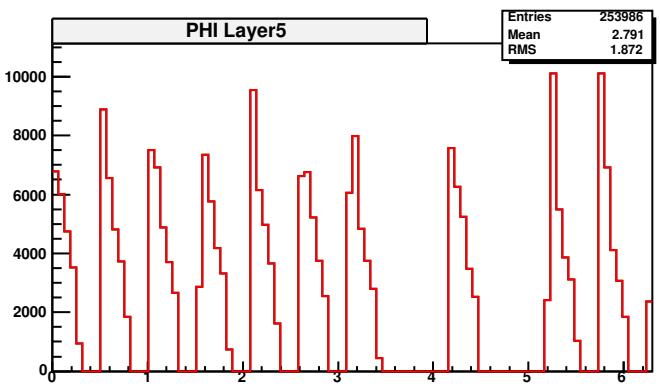
SmtClusters (ClustrBar5)

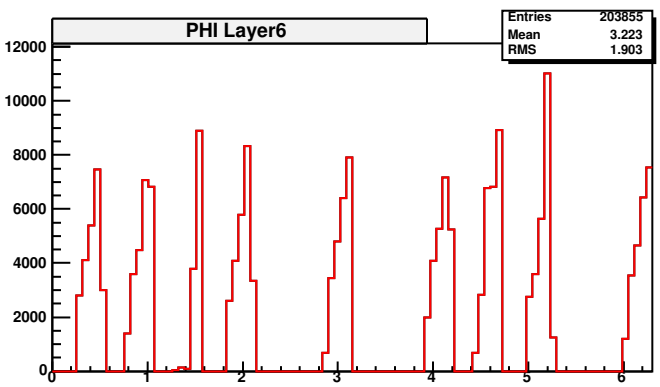


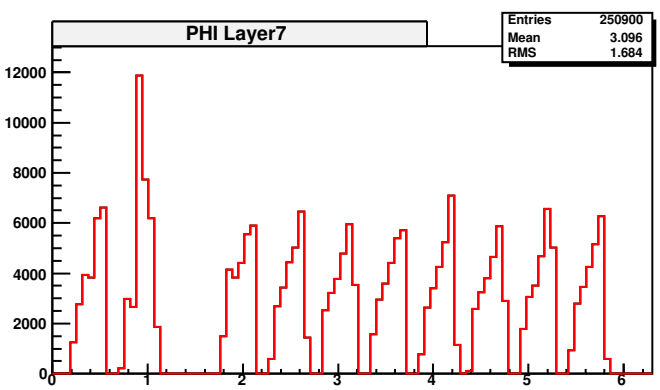


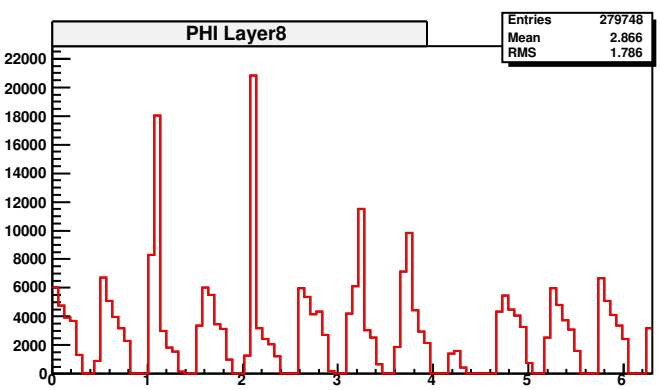




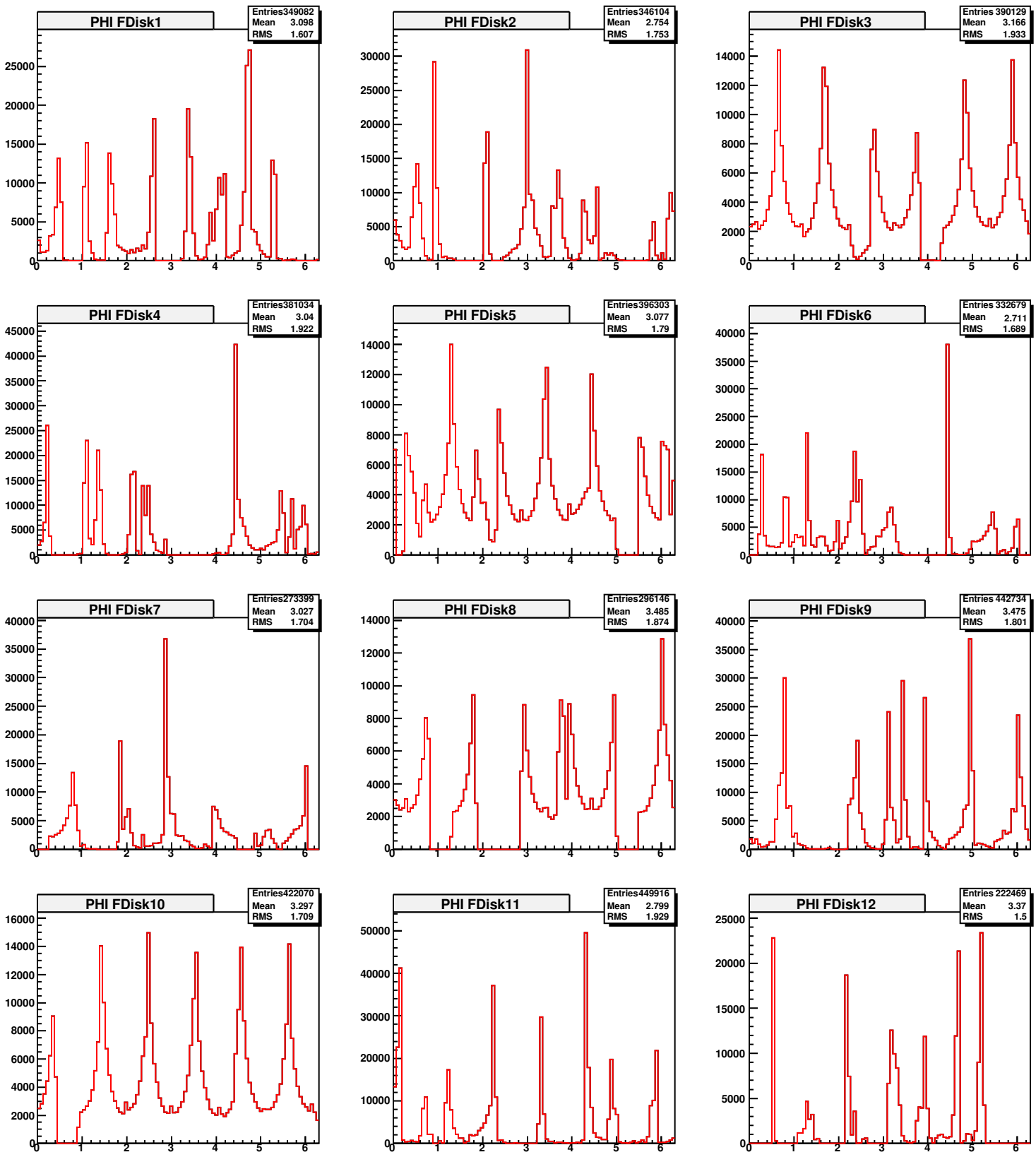




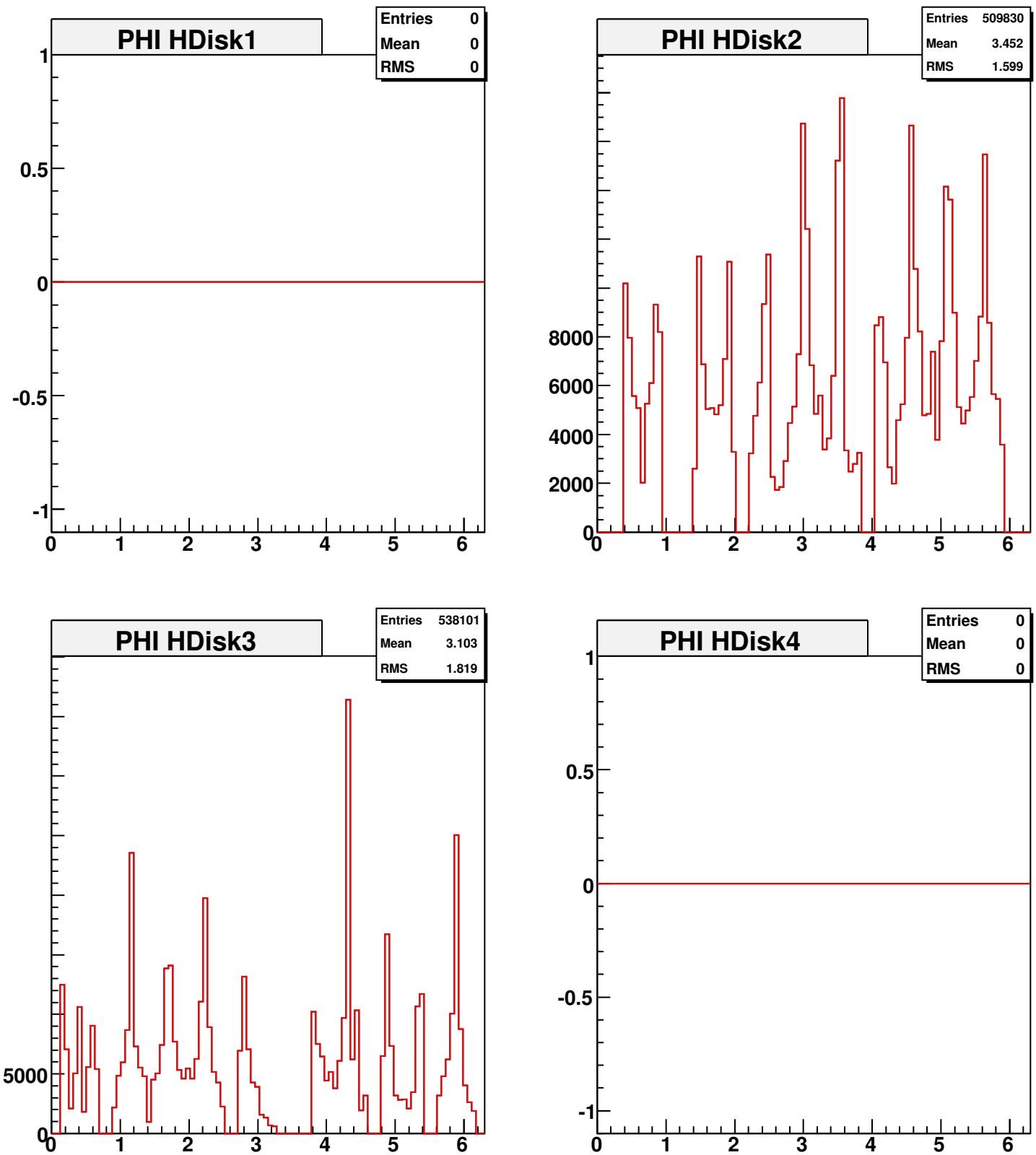




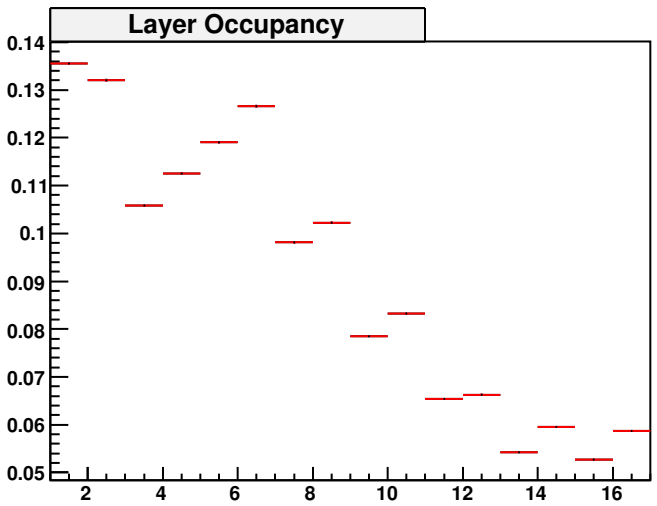
SmtClusters (ClustrBar6)

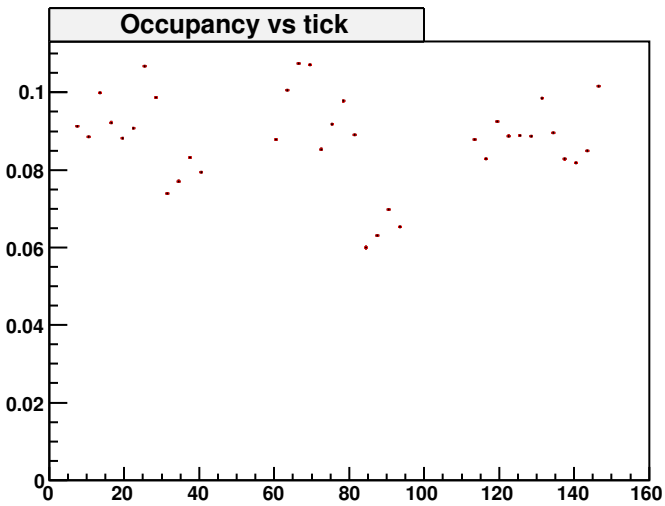


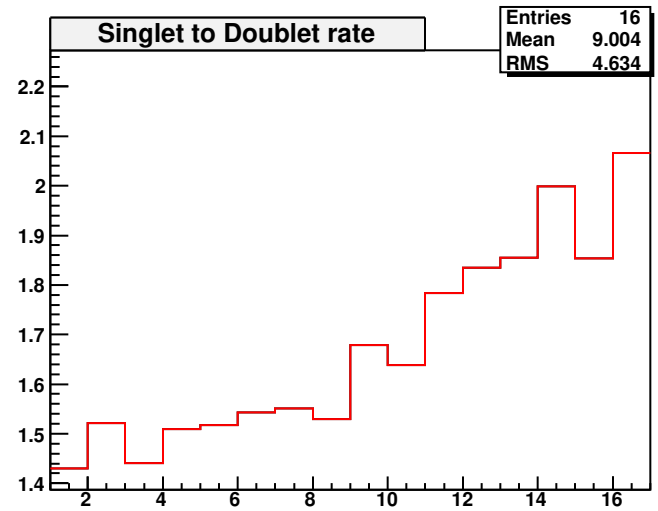
SmtClusters (FDiskClusters)

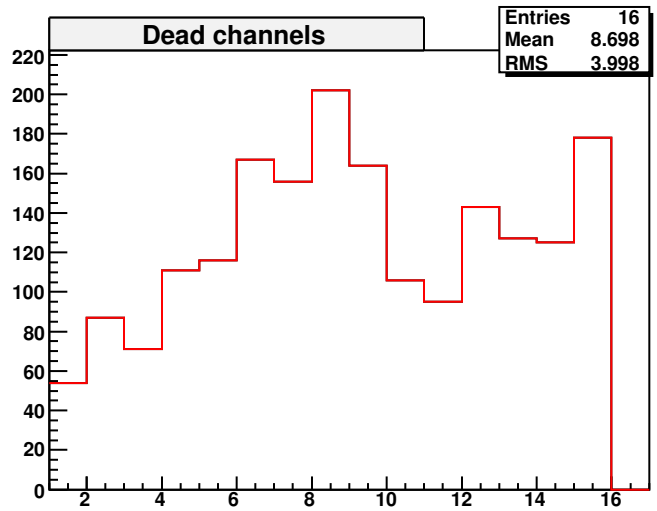


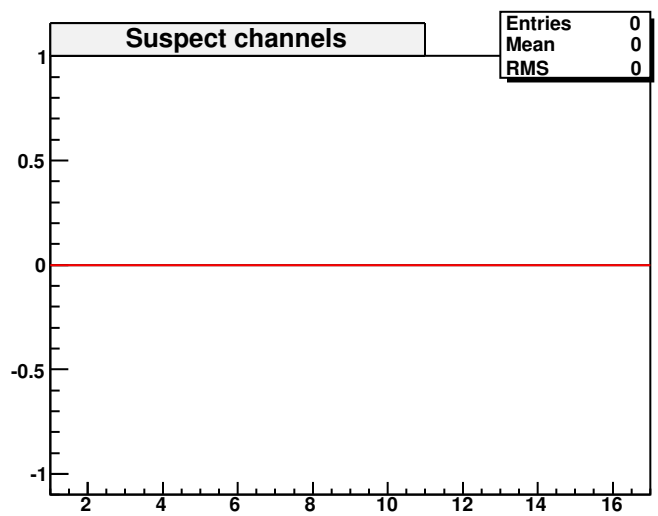
SmtClusters (HDiskClusters)

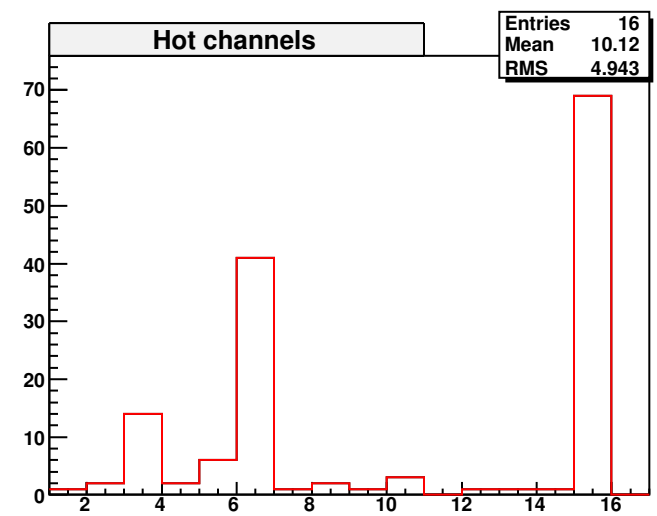




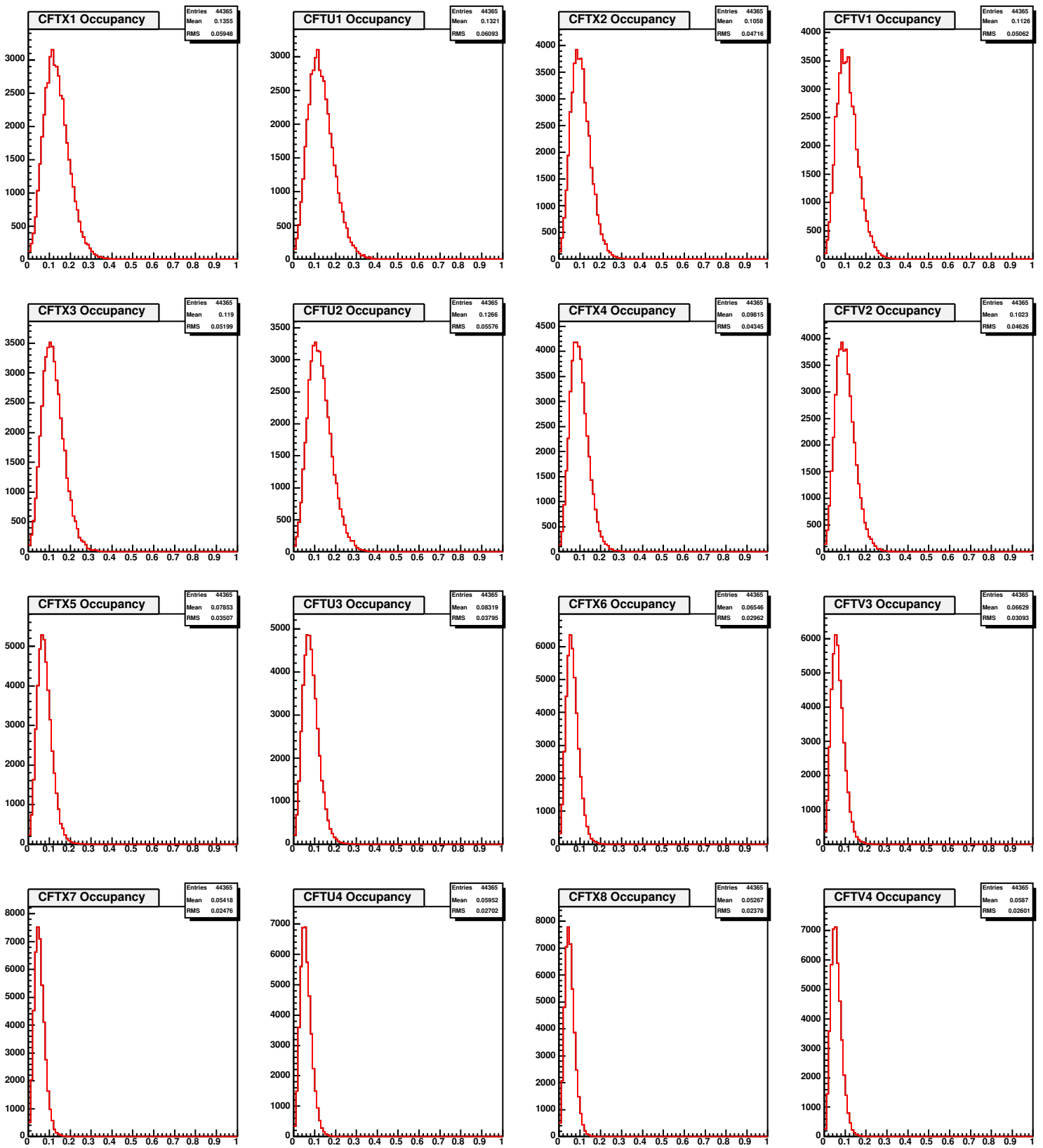




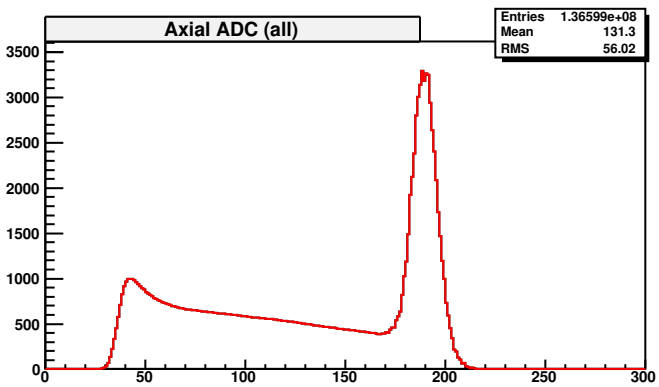


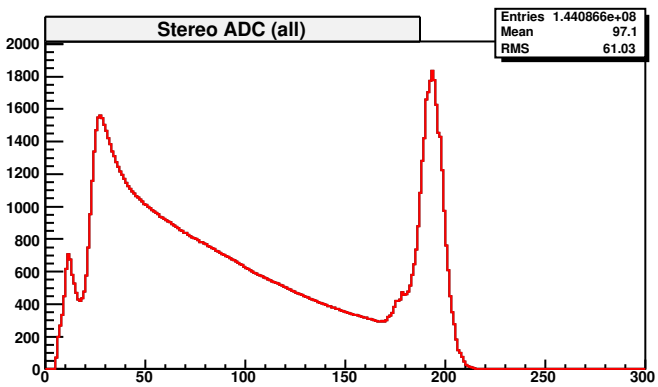


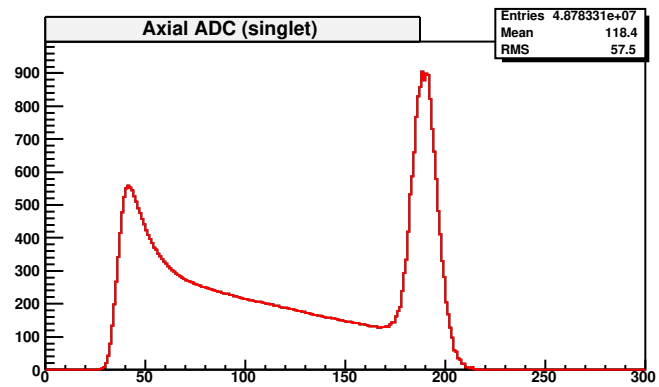
CFT Summary (All Clusters)

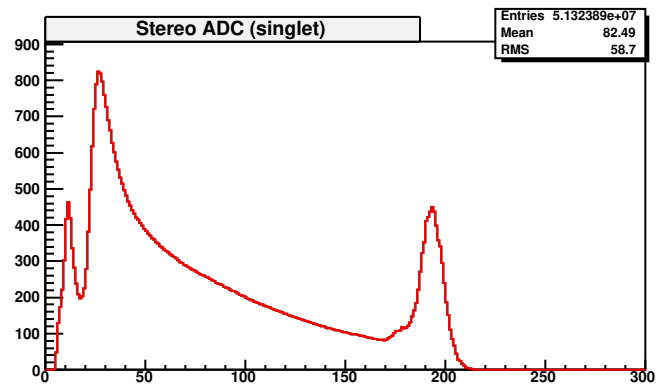


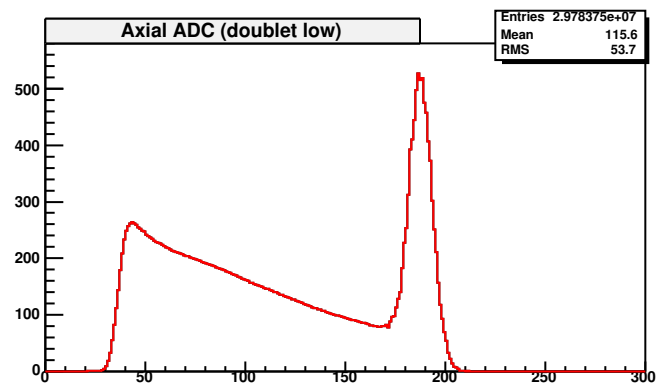
CFT Occupancy (All Clusters)

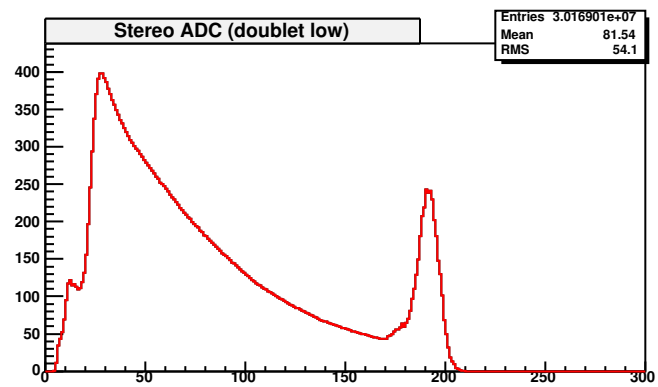


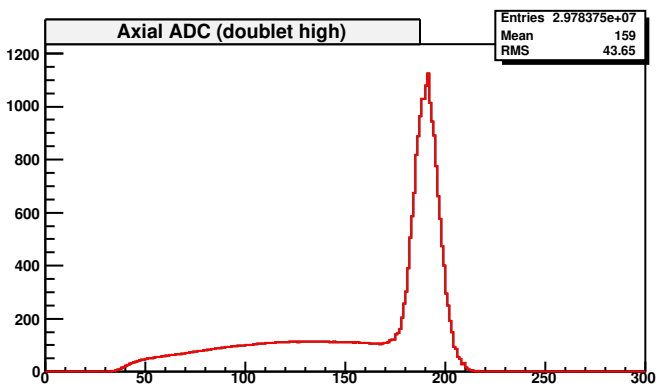


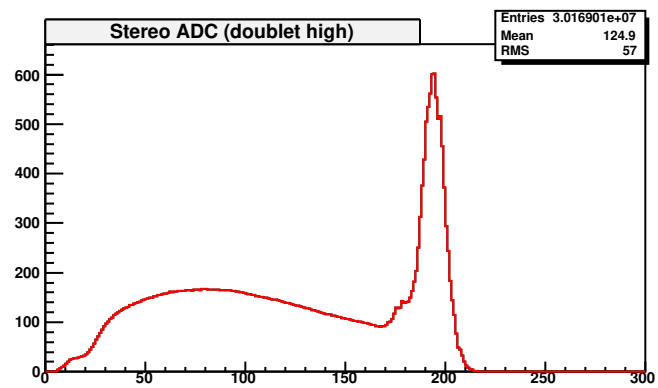




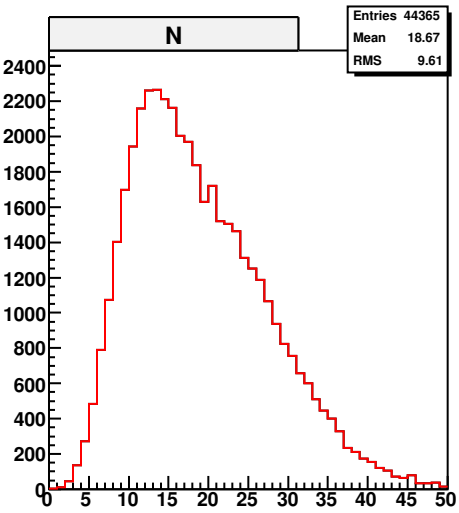


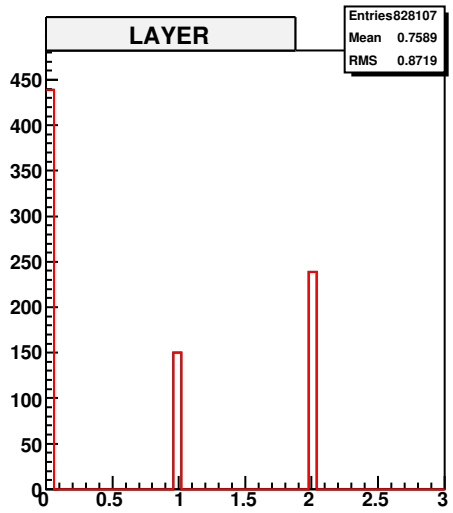


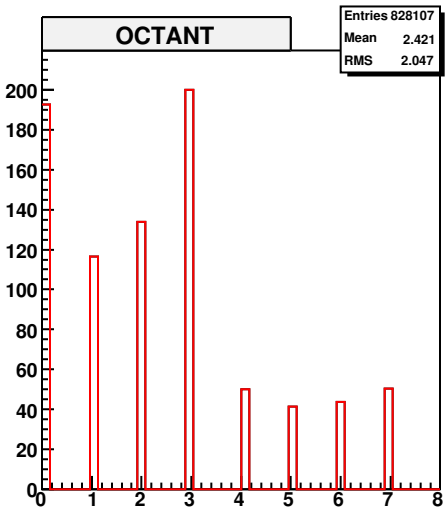


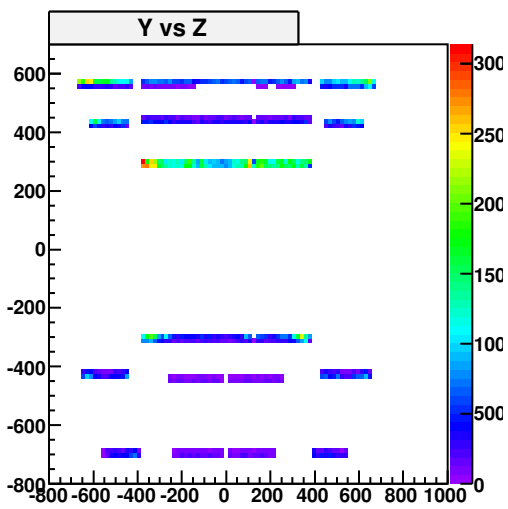


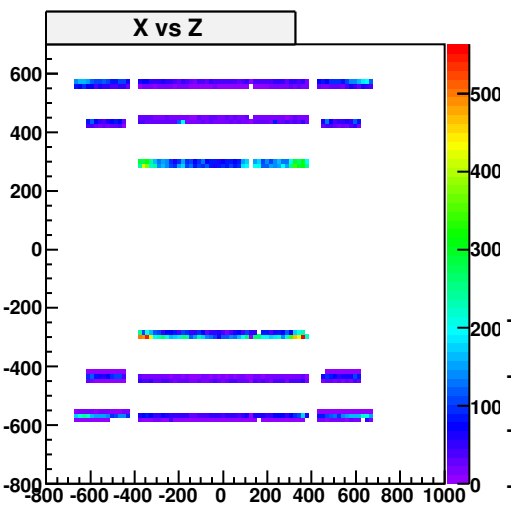
CFT ADC Summary (All Clusters)

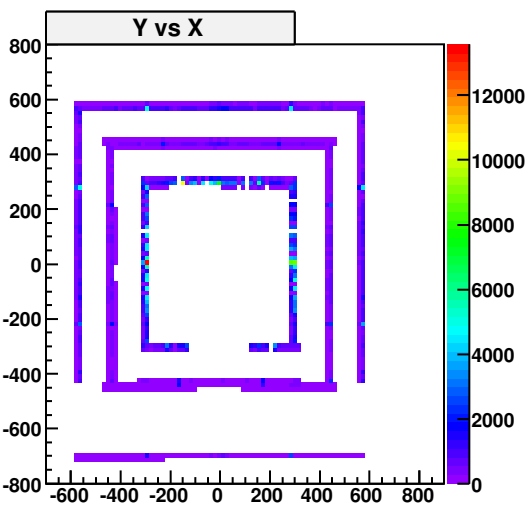

N
Entries 44365
Mean 18.67
RMS 9.61

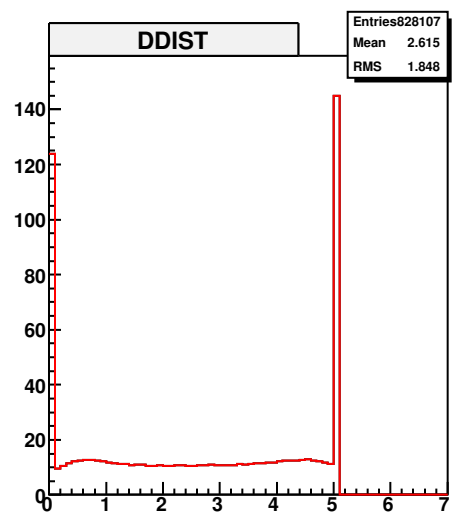

LAYER
Entries 828107
Mean 0.7589
RMS 0.8719

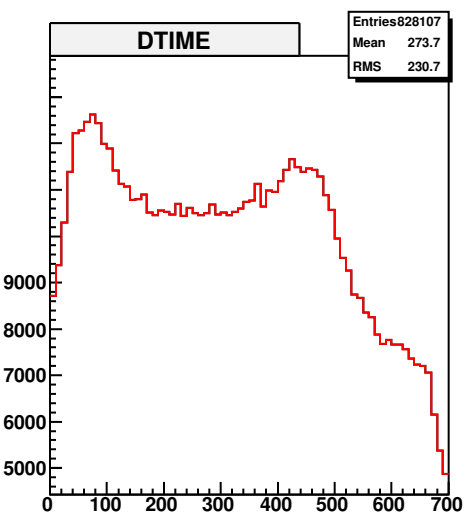

OCTANT
Entries 828107
Mean 2.421
RMS 2.047


Y vs Z

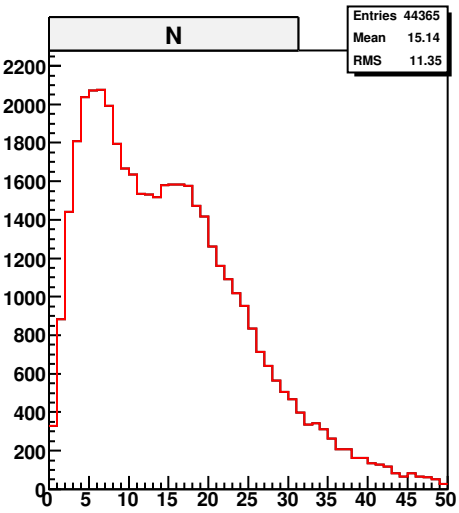

X vs Z

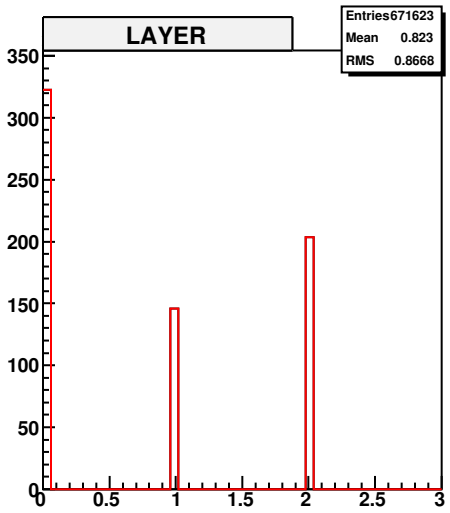

Y vs X

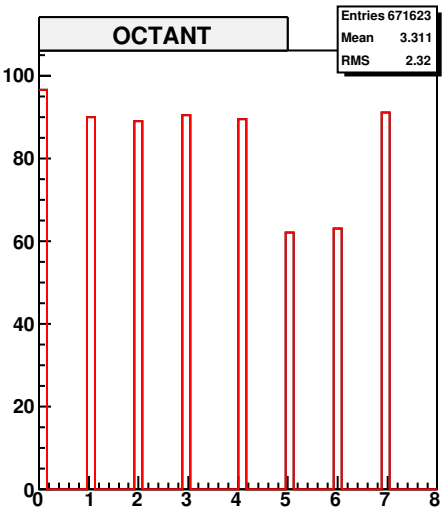

DDIST
Entries 828107
Mean 2.615
RMS 1.848

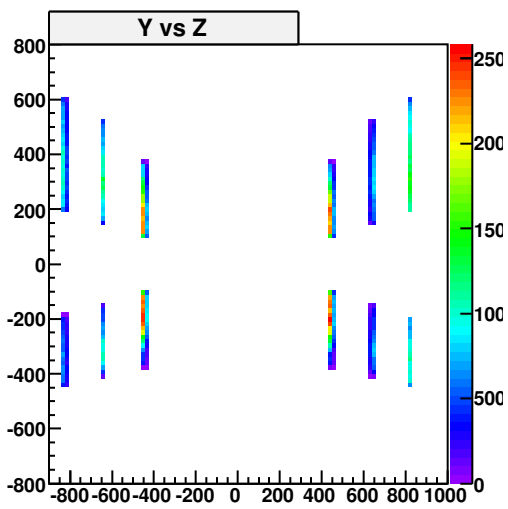

DTIME
Entries 828107
Mean 273.7
RMS 230.7

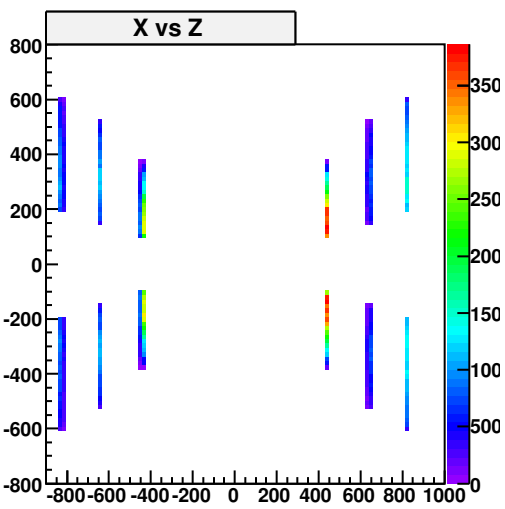
MuonPDT (All)

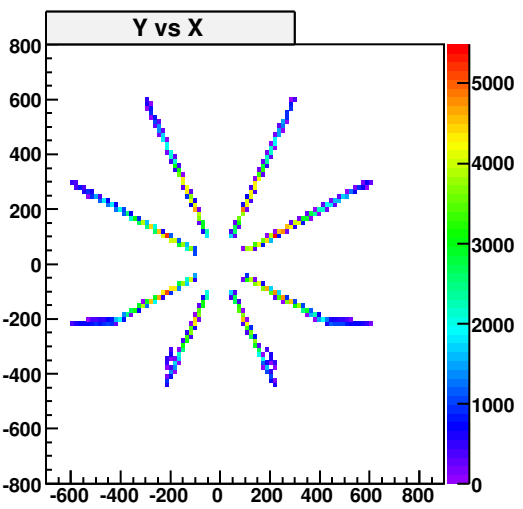

N
Entries 44365
Mean 15.14
RMS 11.35

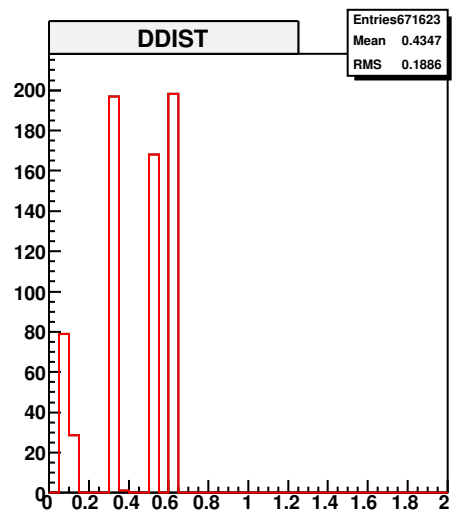

LAYER
Entries671623
Mean 0.823
RMS 0.8668

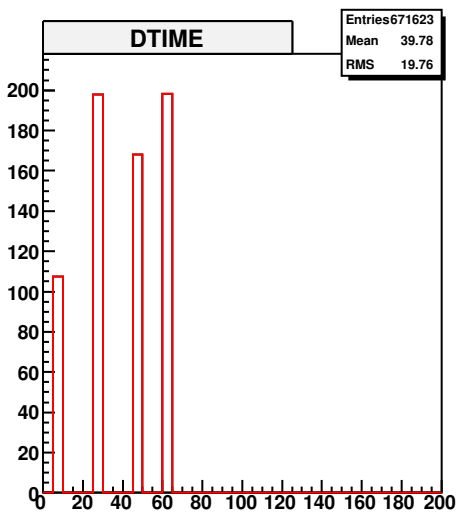

OCTANT
Entries 671623
Mean 3.311
RMS 2.32


Y vs Z

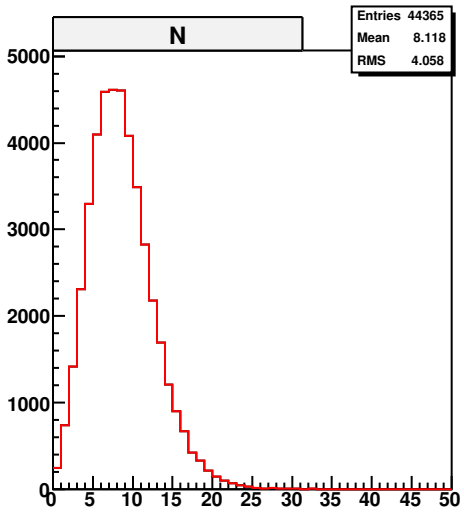

X vs Z

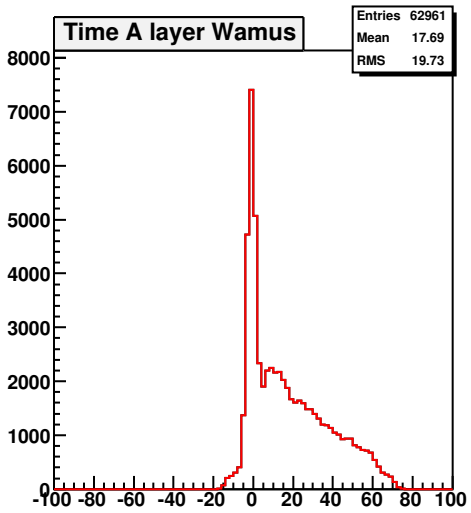

Y vs X

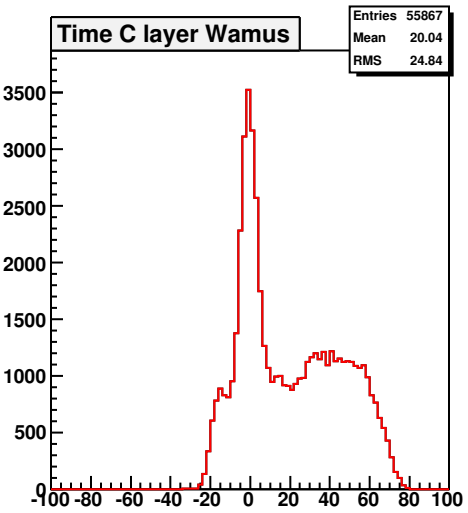

DDIST
Entries671623
Mean 0.4347
RMS 0.1886

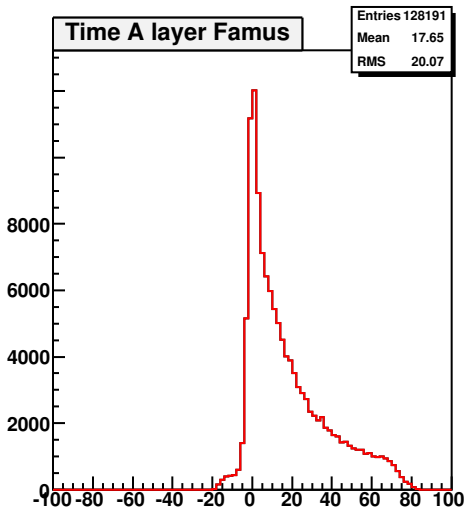

DTIME
Entries671623
Mean 39.78
RMS 19.76

MuonMDT (All)


N
Entries 44365
Mean 8.118
RMS 4.058


Time A layer Wamus
Entries 62961
Mean 17.69
RMS 19.73


Time C layer Wamus
Entries 55867
Mean 20.04
RMS 24.84


Time A layer Famus
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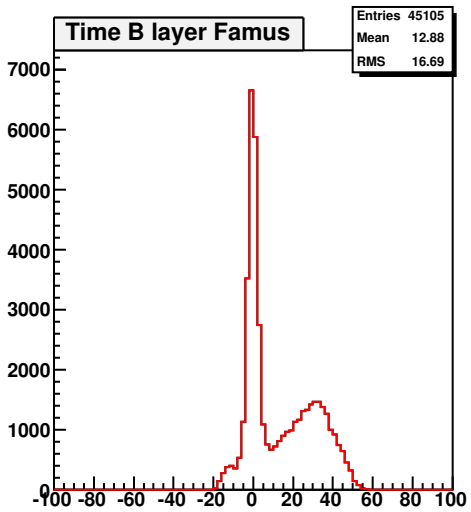
Mean 17.65
RMS 20.07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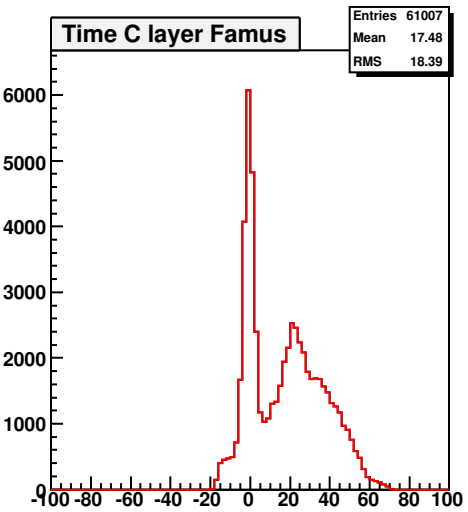
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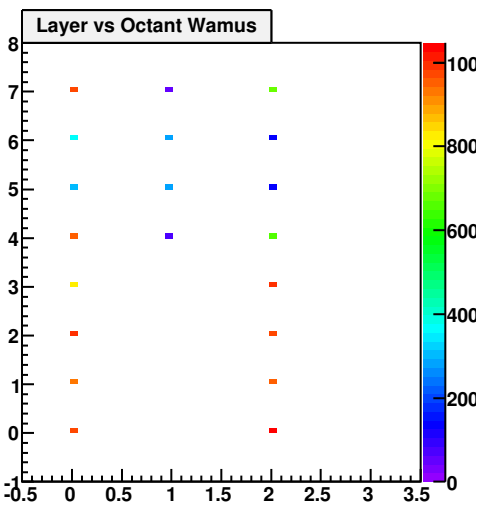
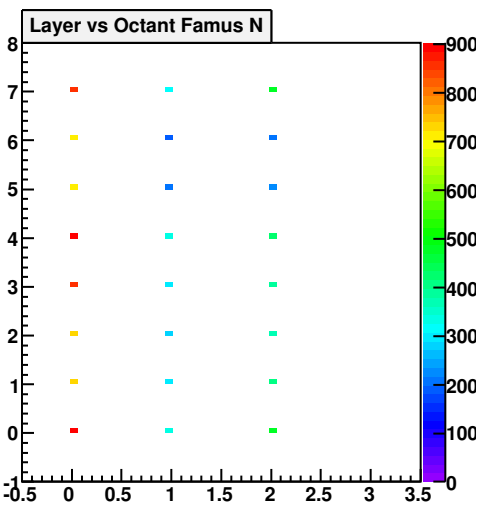
Mean 17.48
RMS 18.39


Layer vs Octant Wamus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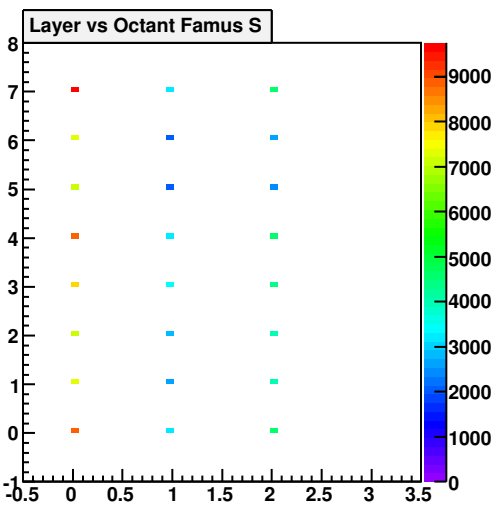
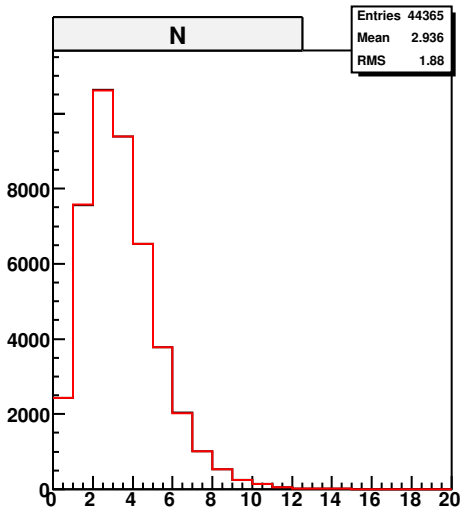
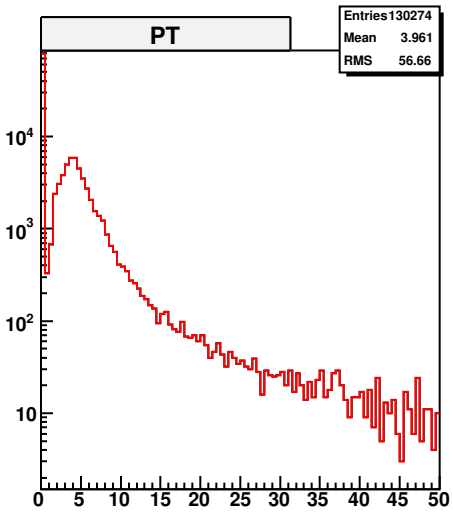
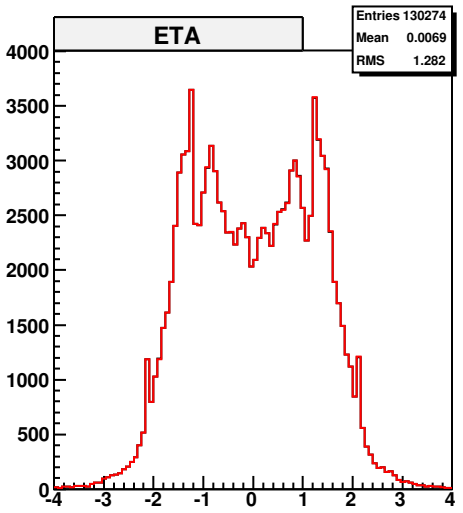
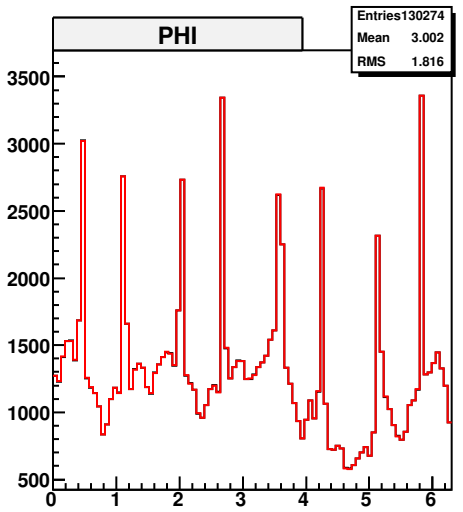

Layer vs Octant Famus S

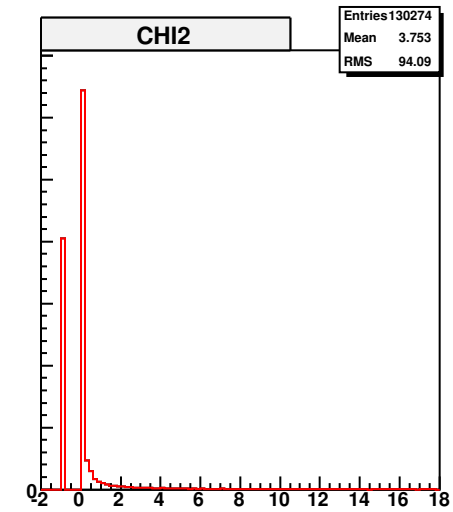
MuonMSC (All)

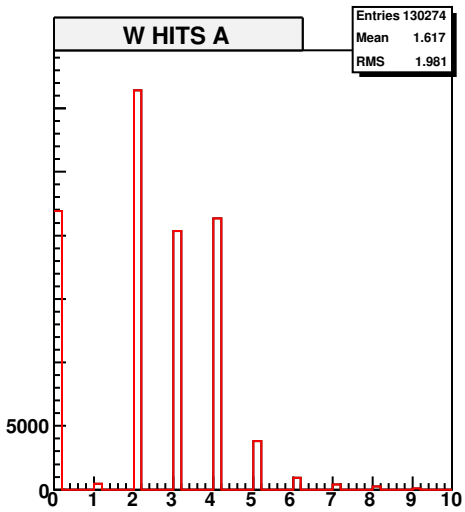


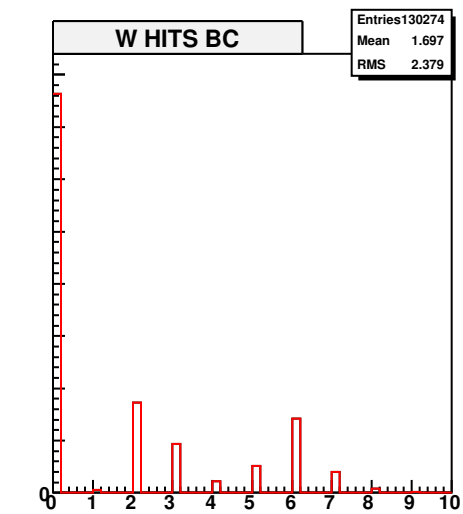


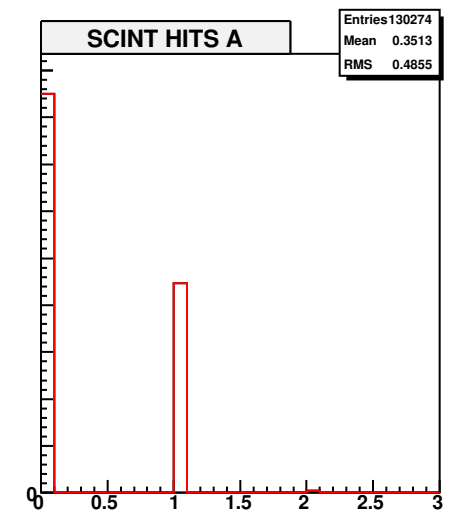


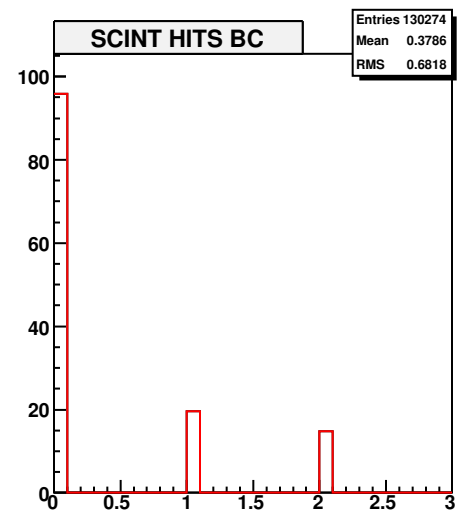




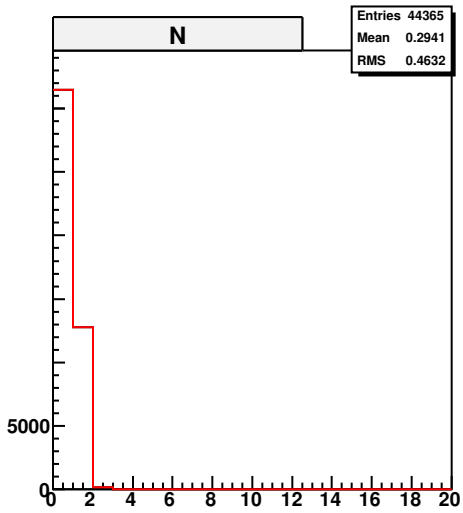


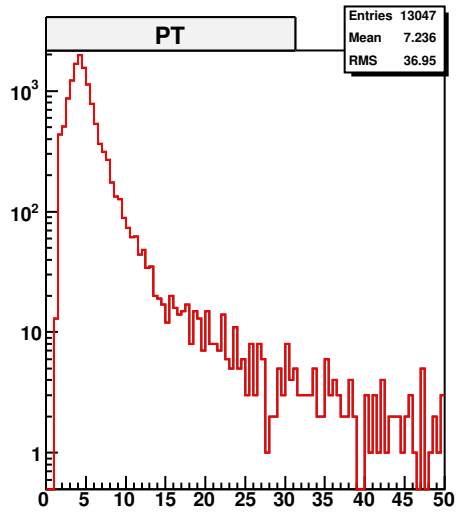


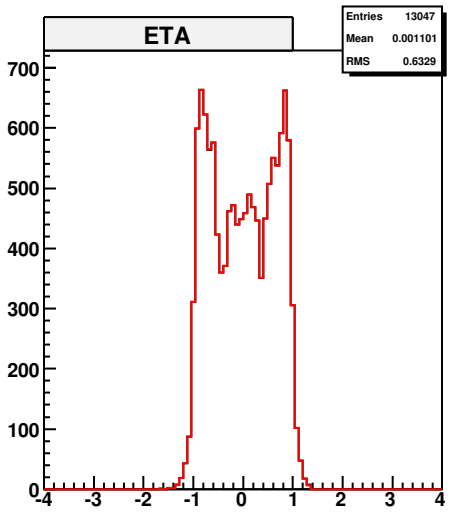


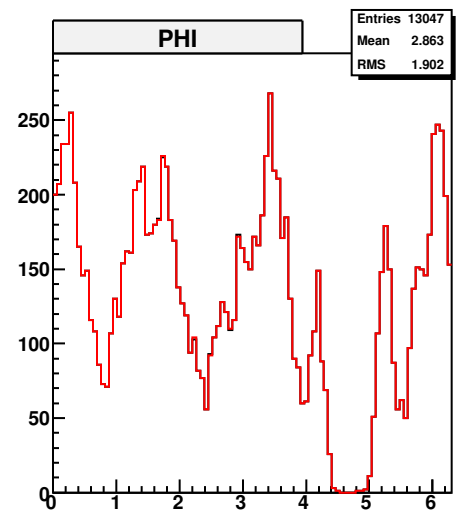


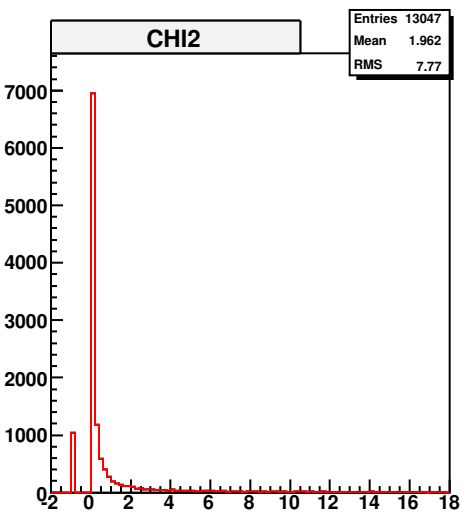
Muon Local Tracks (All)

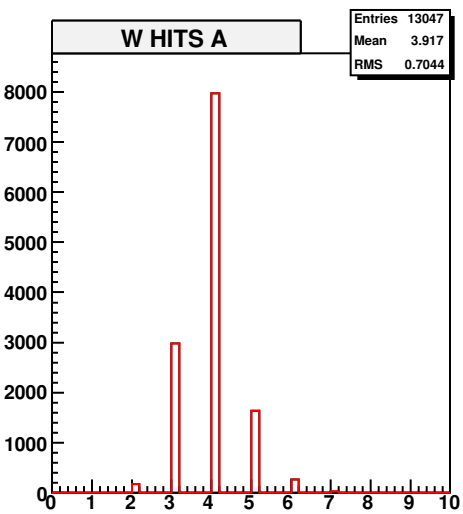


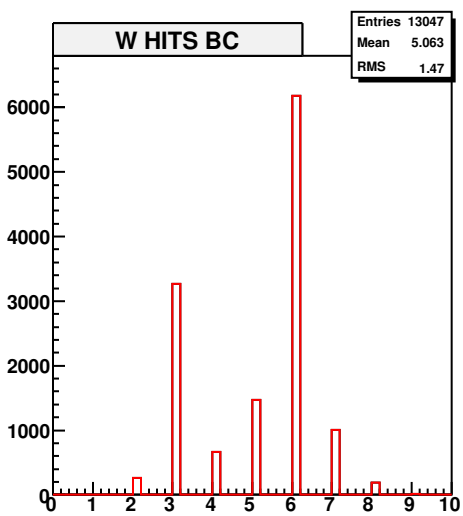


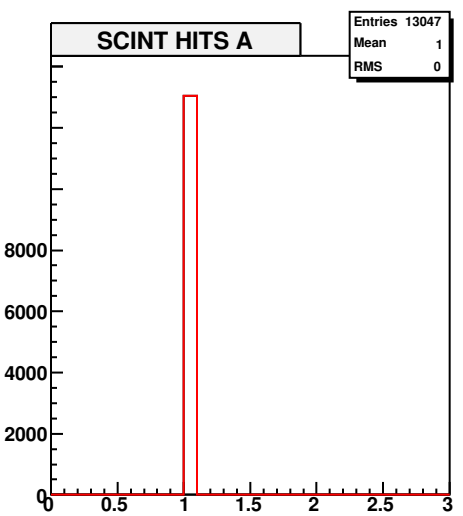


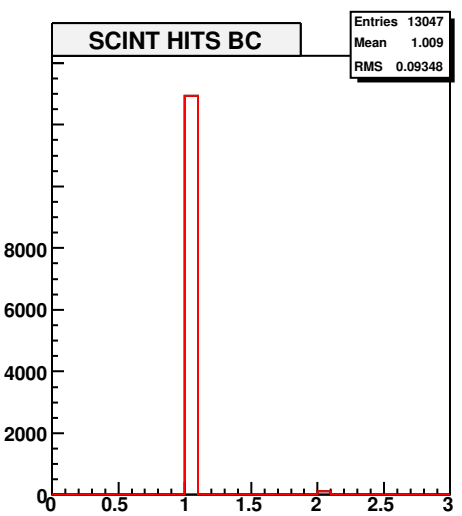




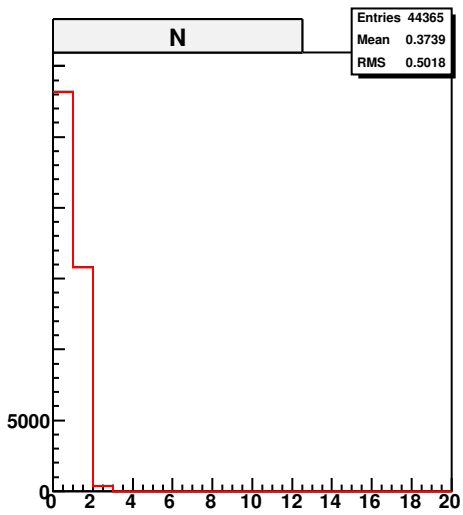


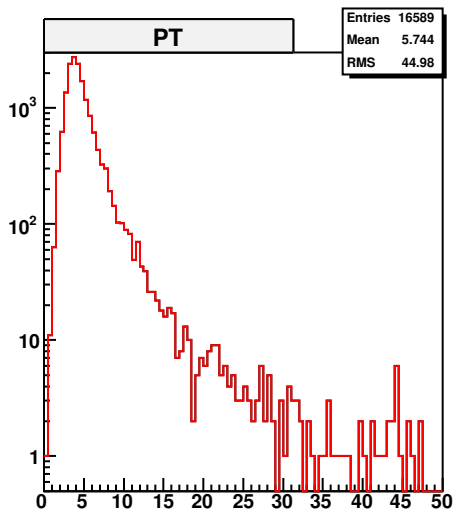


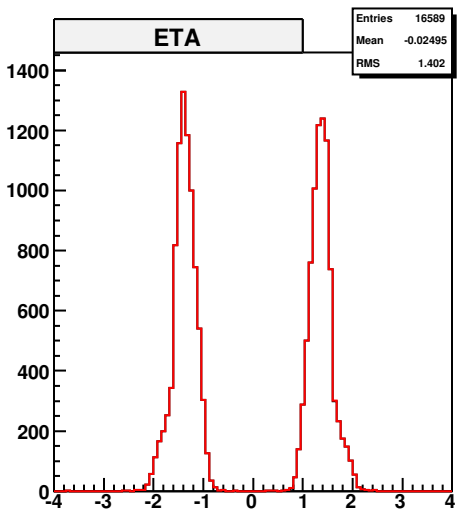


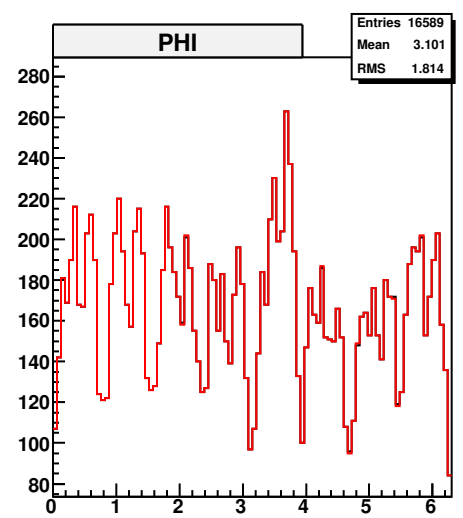


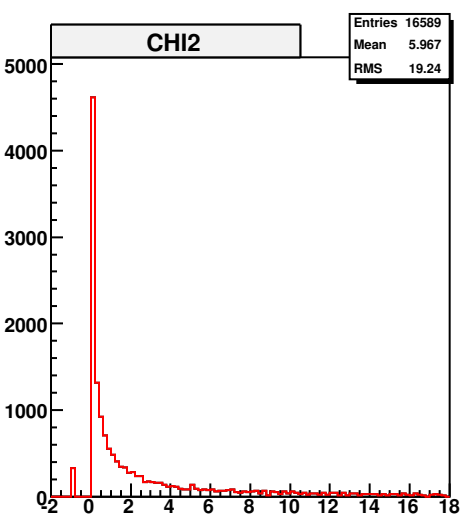
Muon Local Tracks (MediumWamus)

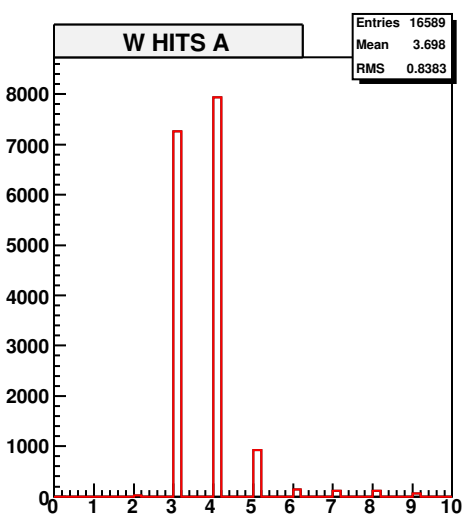


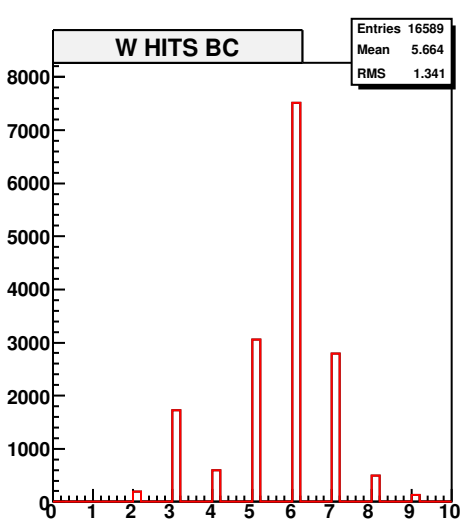


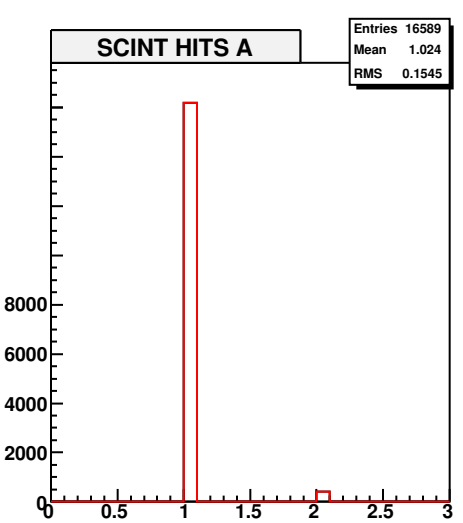


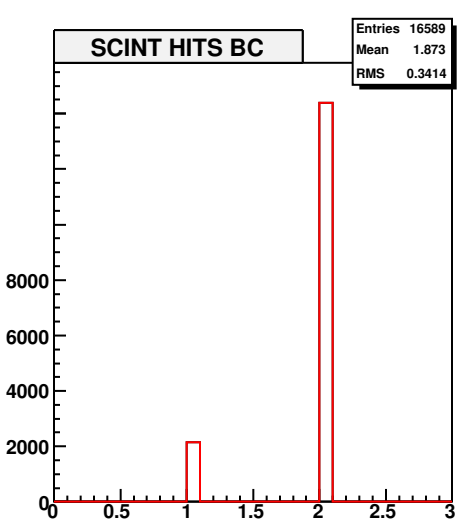




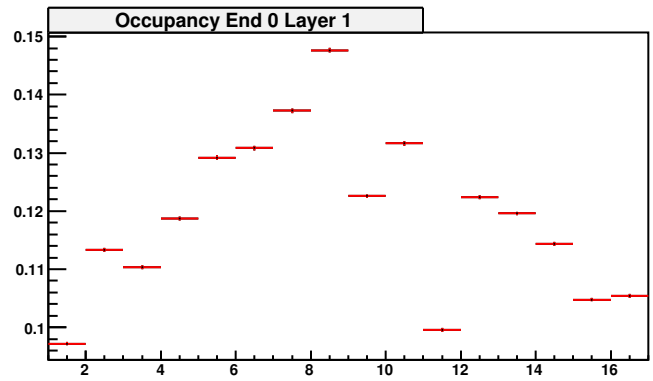


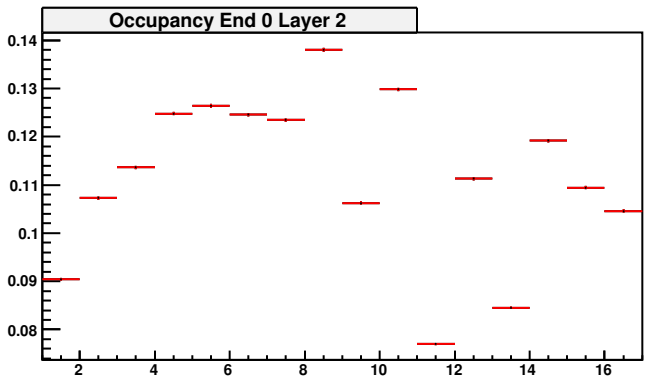


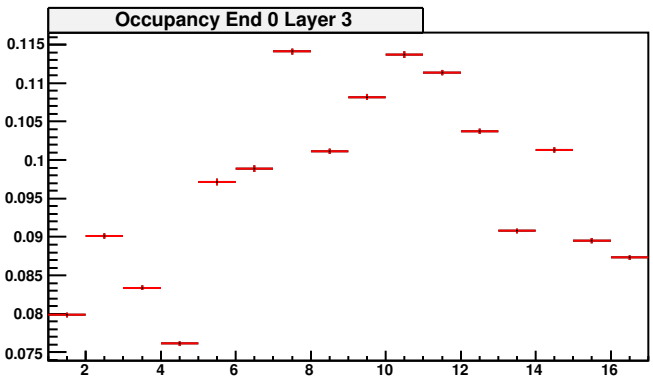


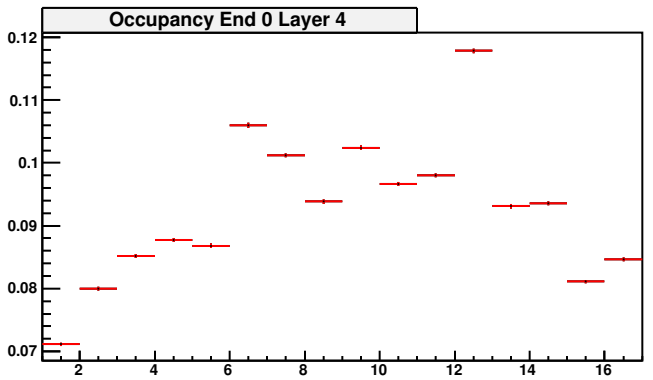


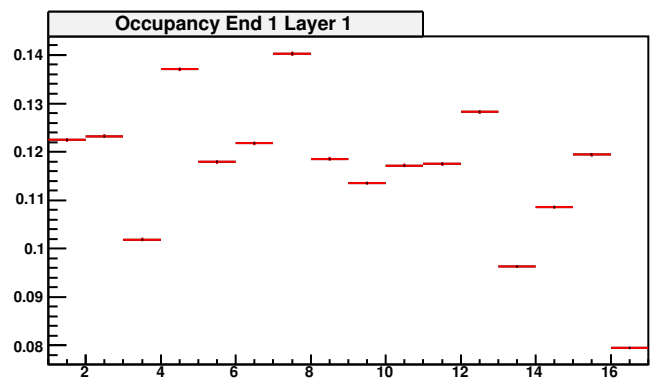
Muon Local Tracks (MediumFamus)

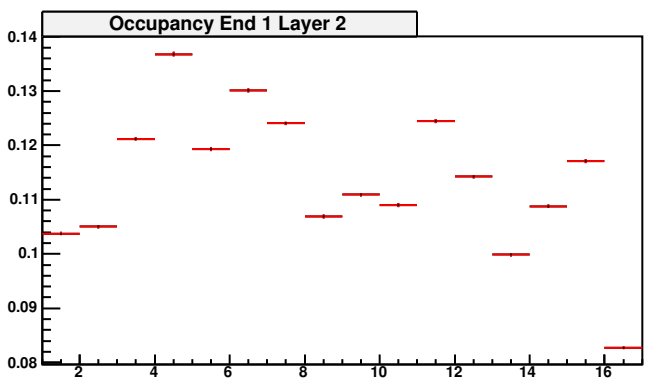


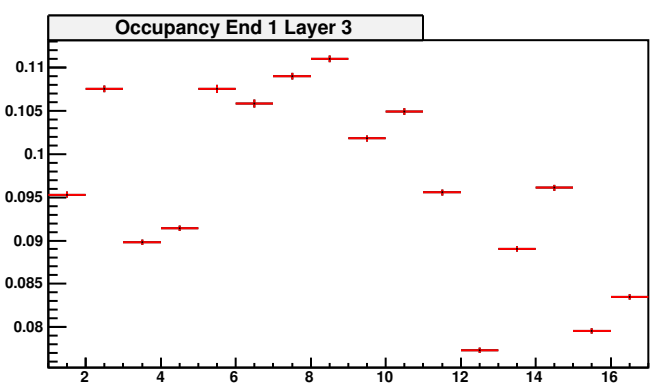


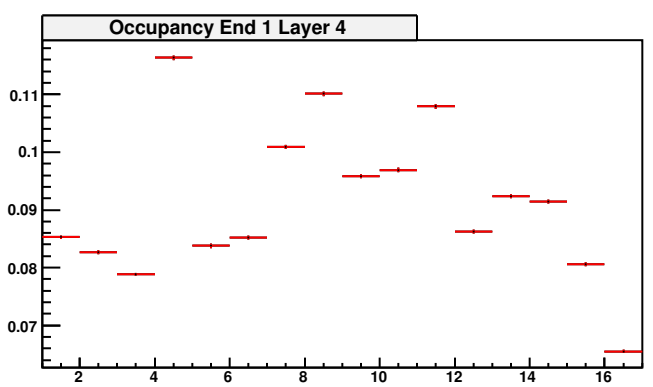




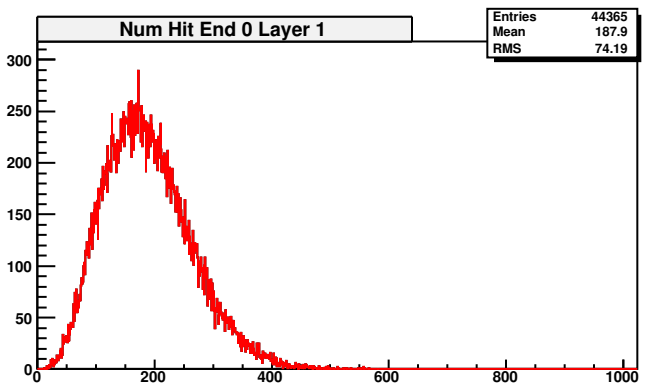


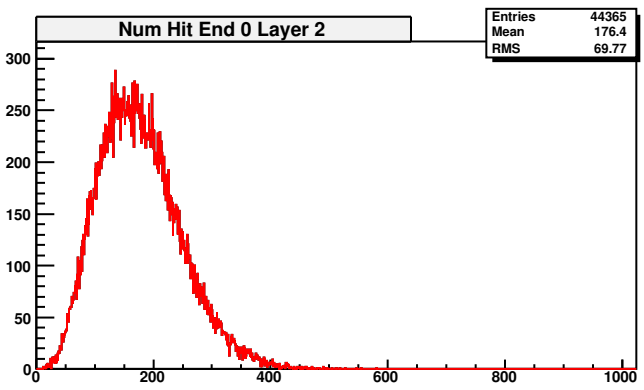


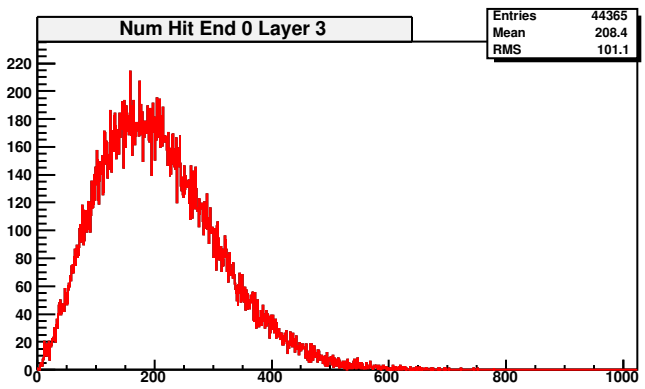


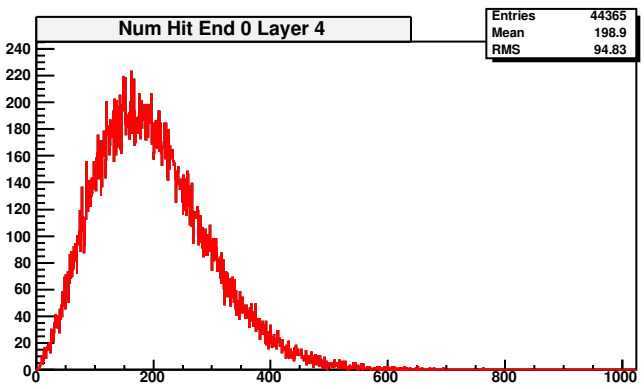


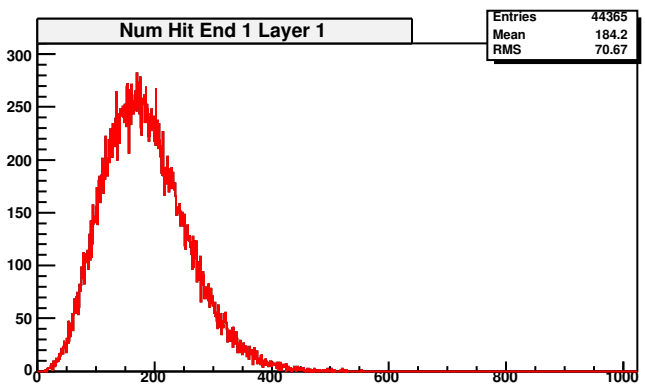
FPS Hit Occupancy (All)

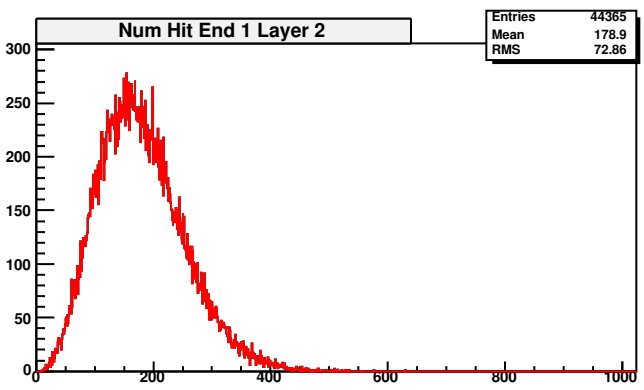


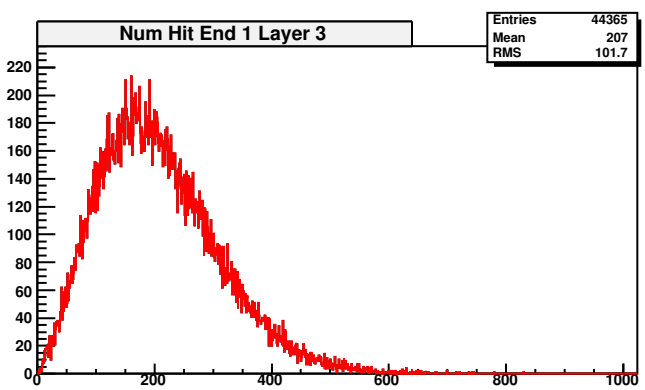


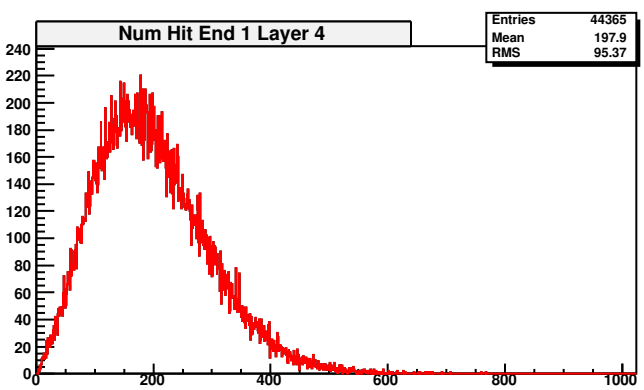




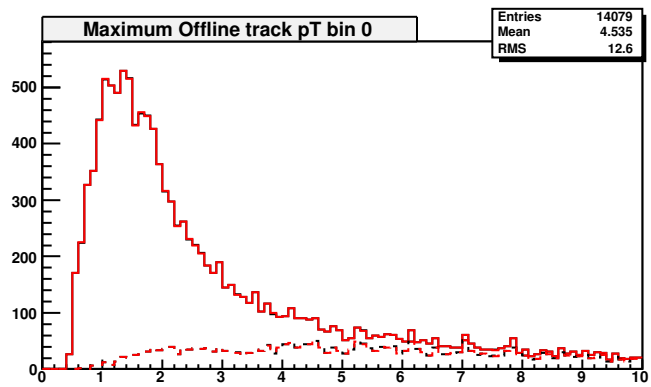


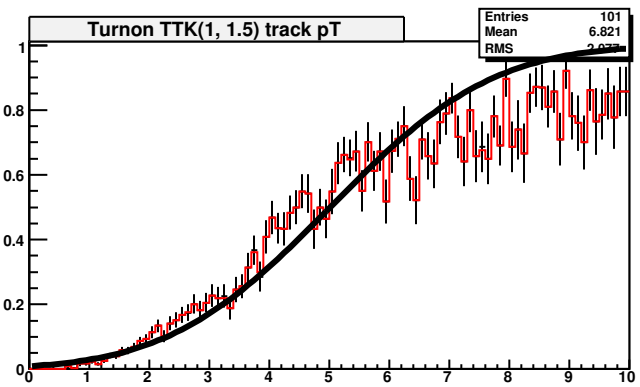


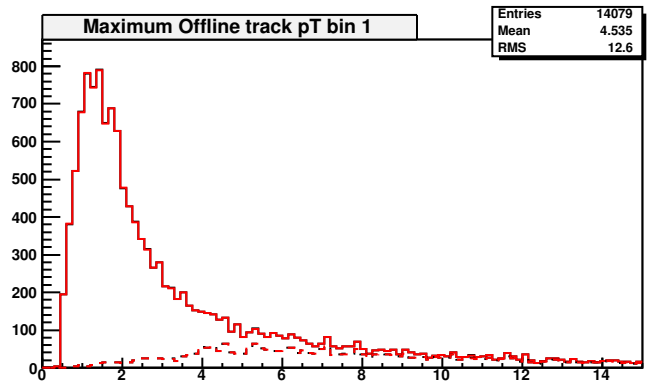


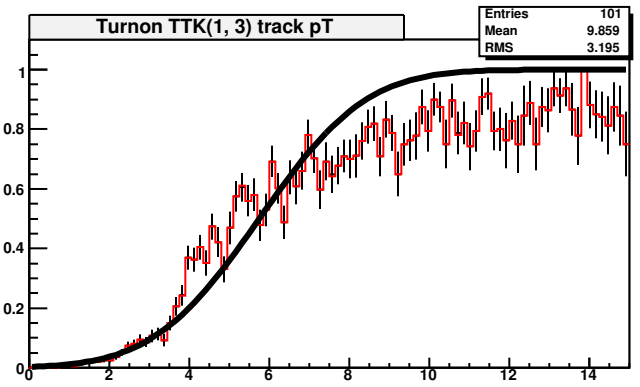


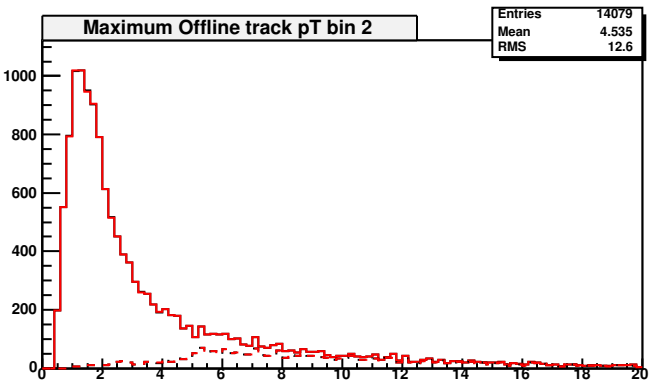
FPS Number of Hits (All)

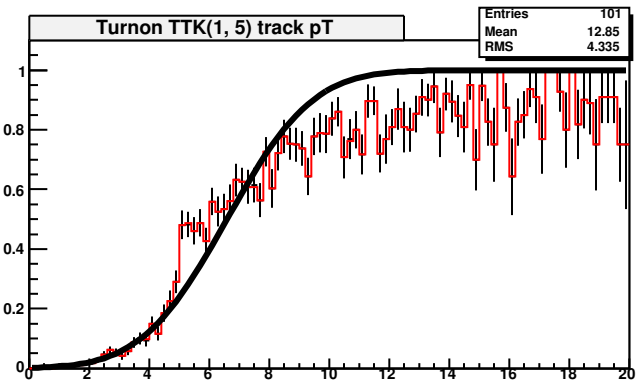


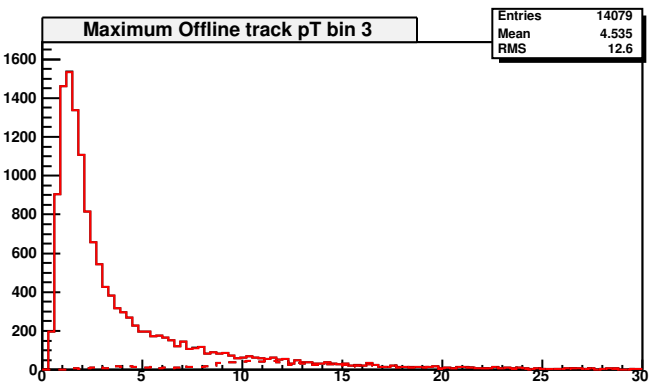


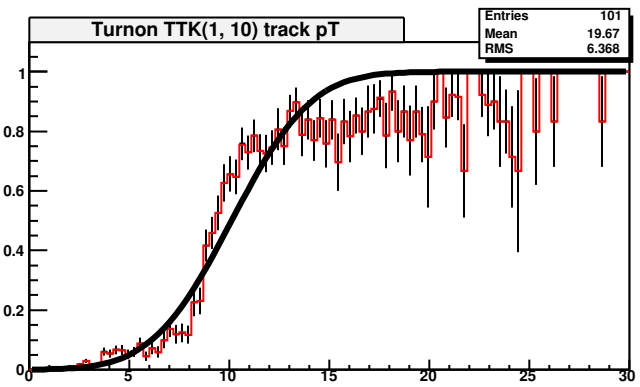




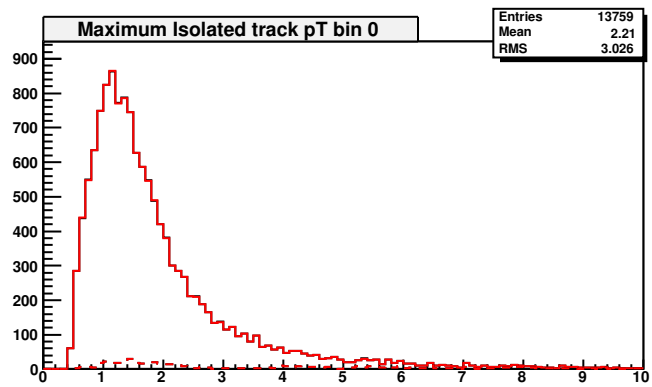


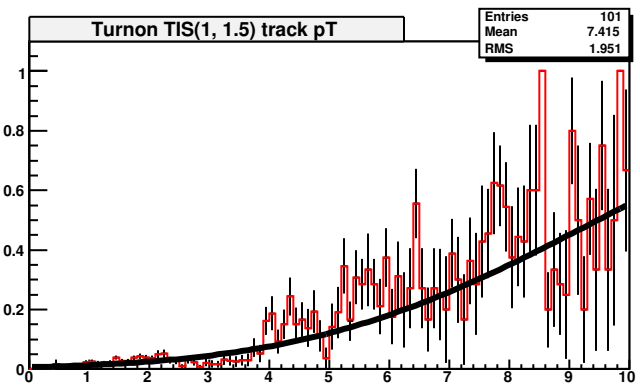


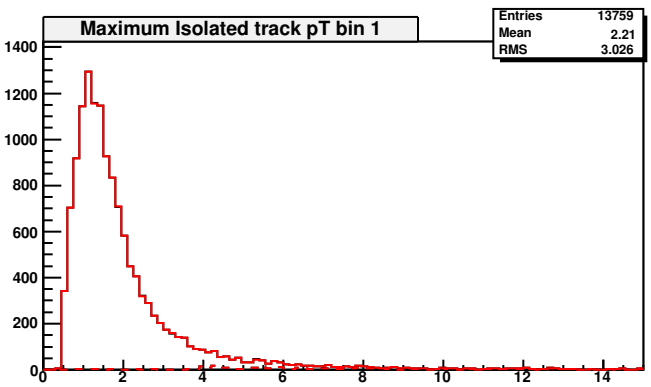


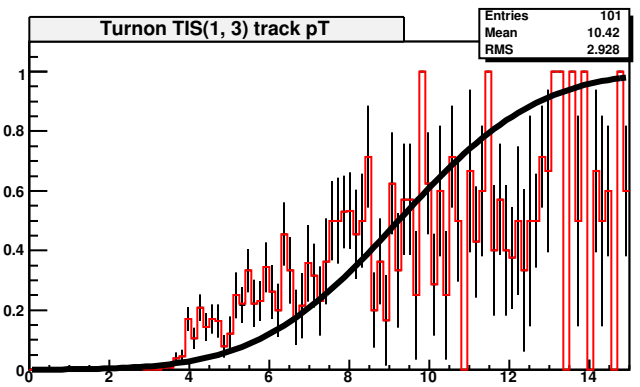


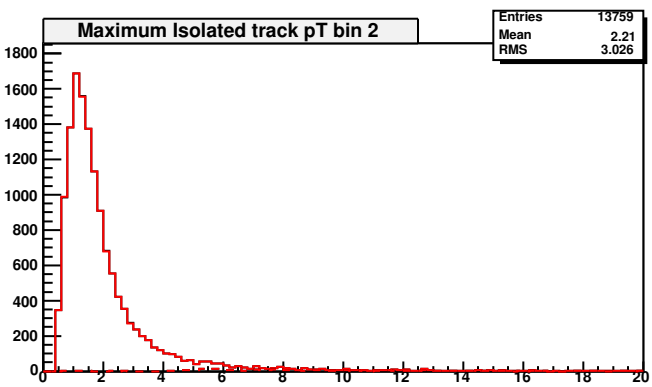
TTK Turnon curves (L1CTT All)

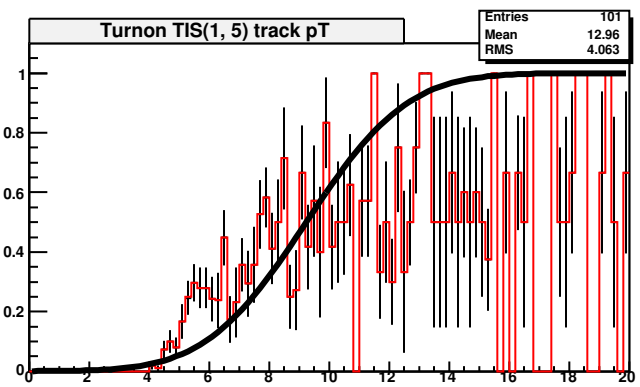


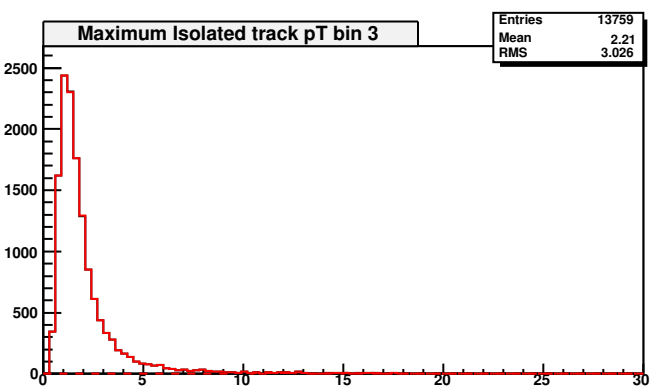


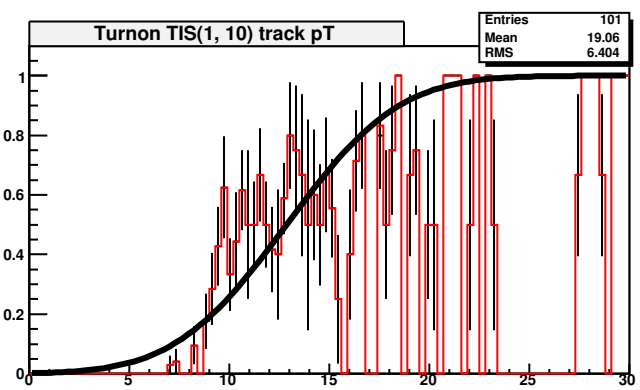




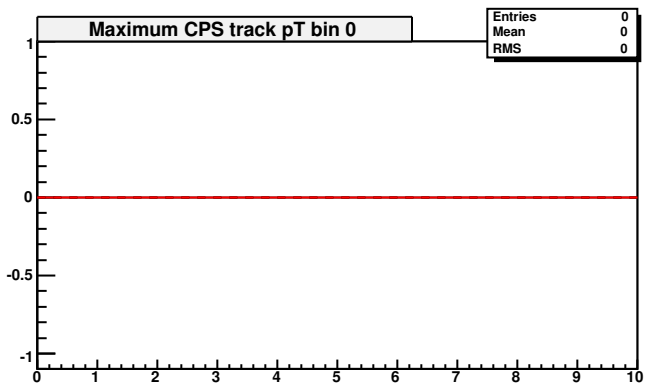


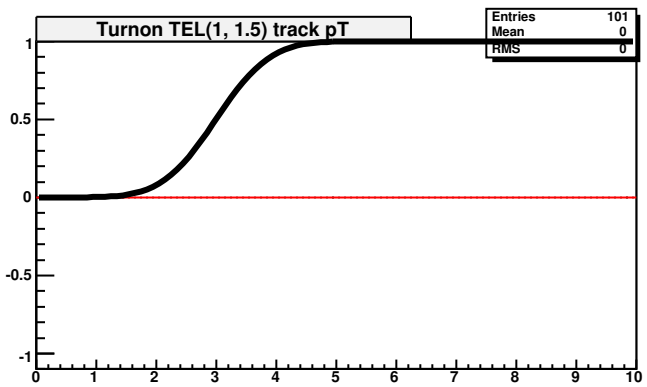


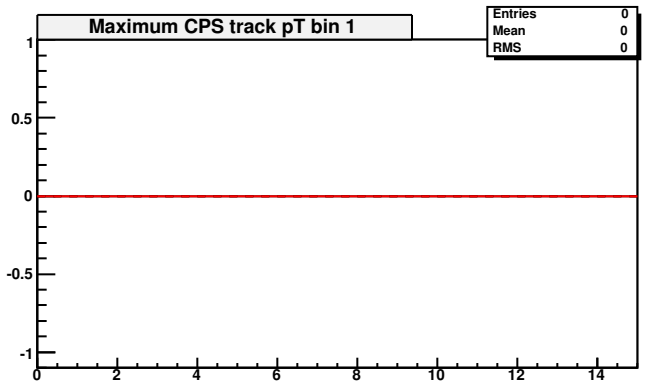


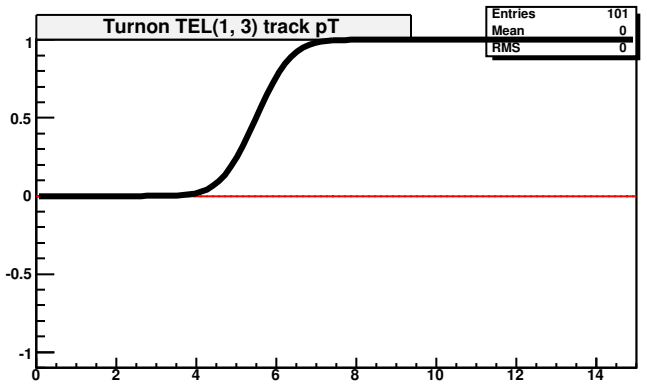


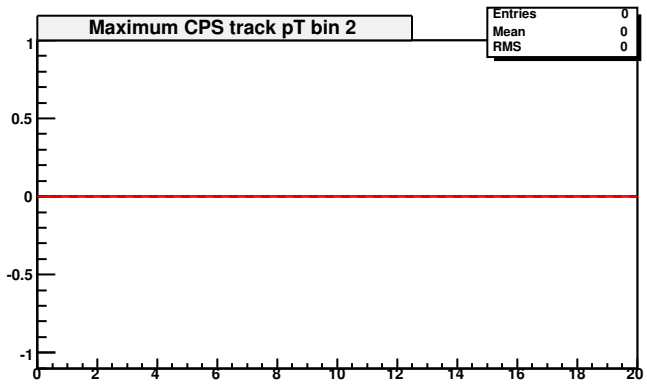
TIS Turnon curves (L1CTT All)

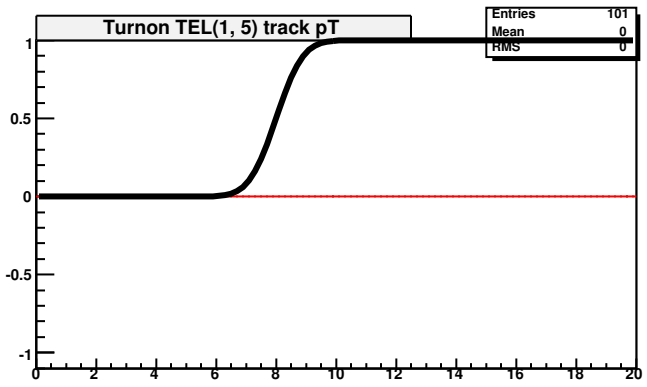


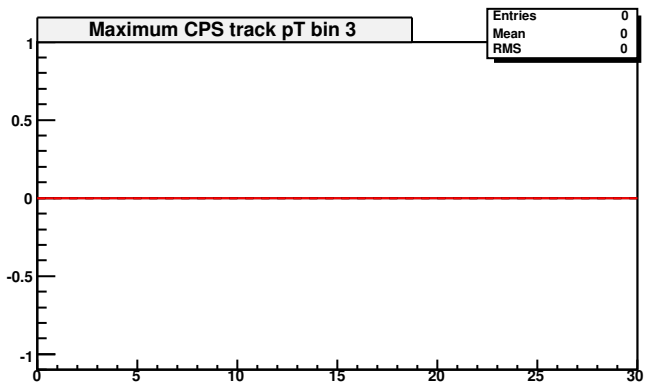


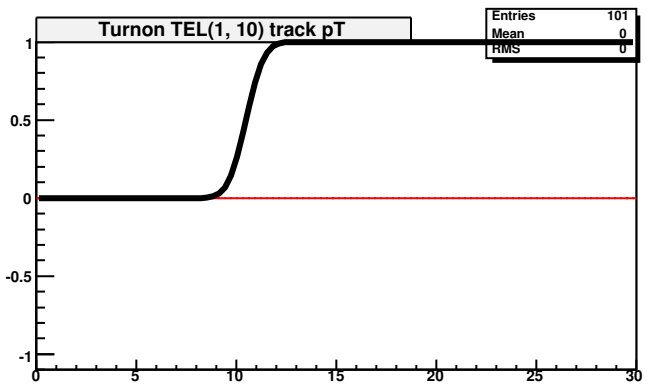




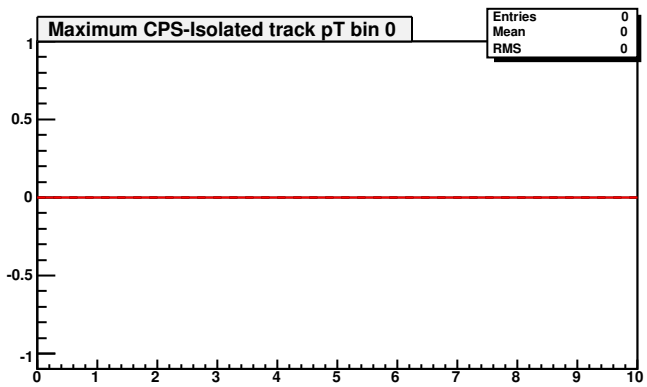


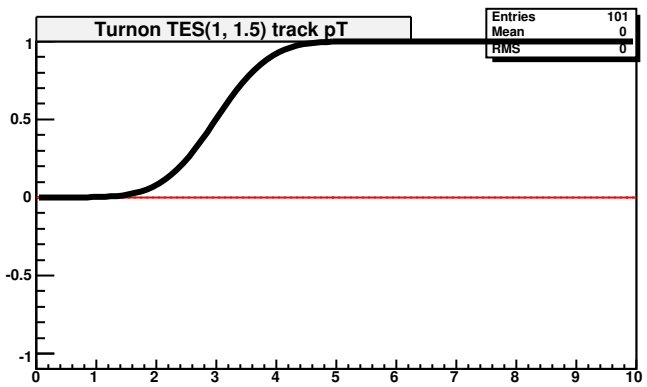


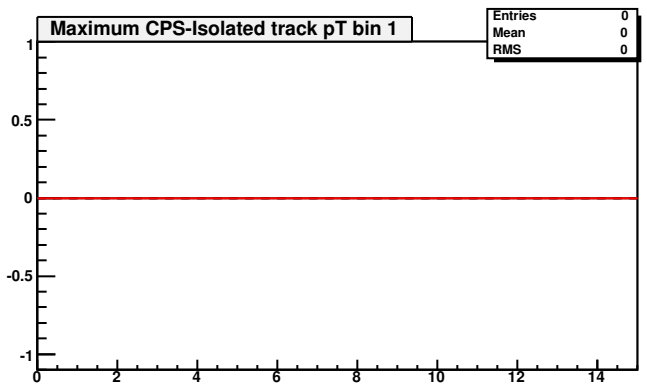


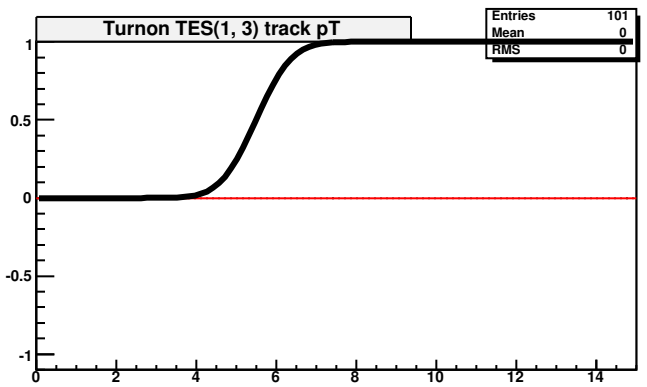


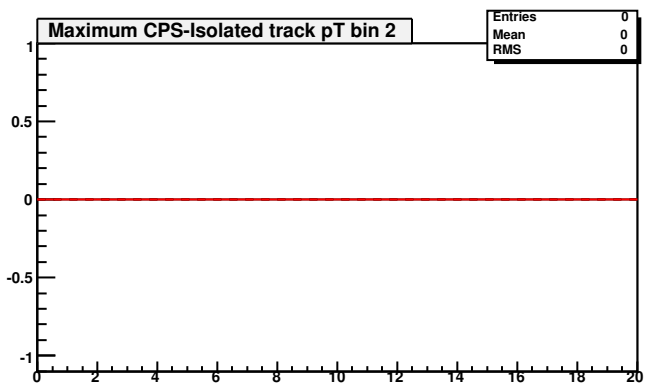
TEL Turnon curves (L1CTT All)

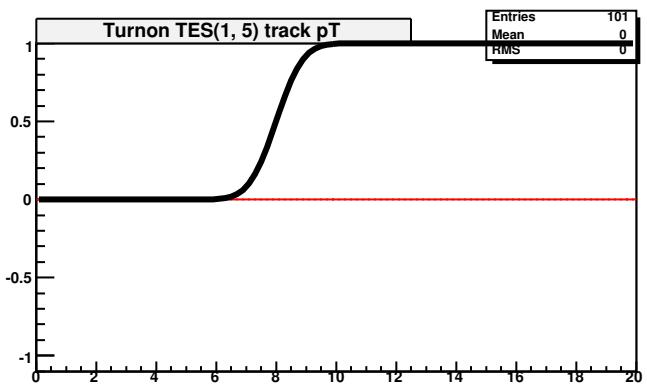


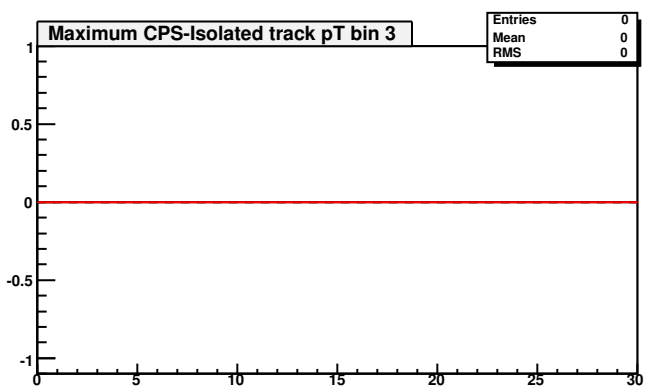


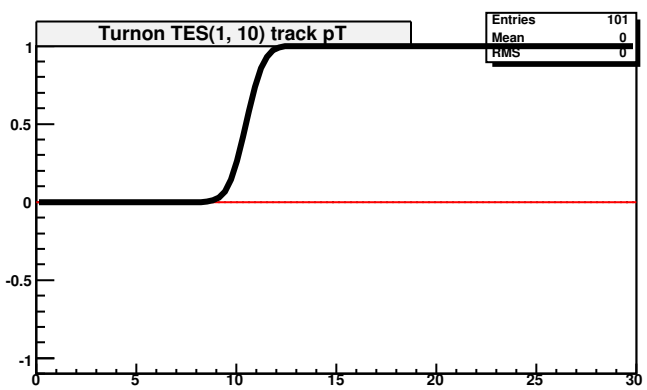




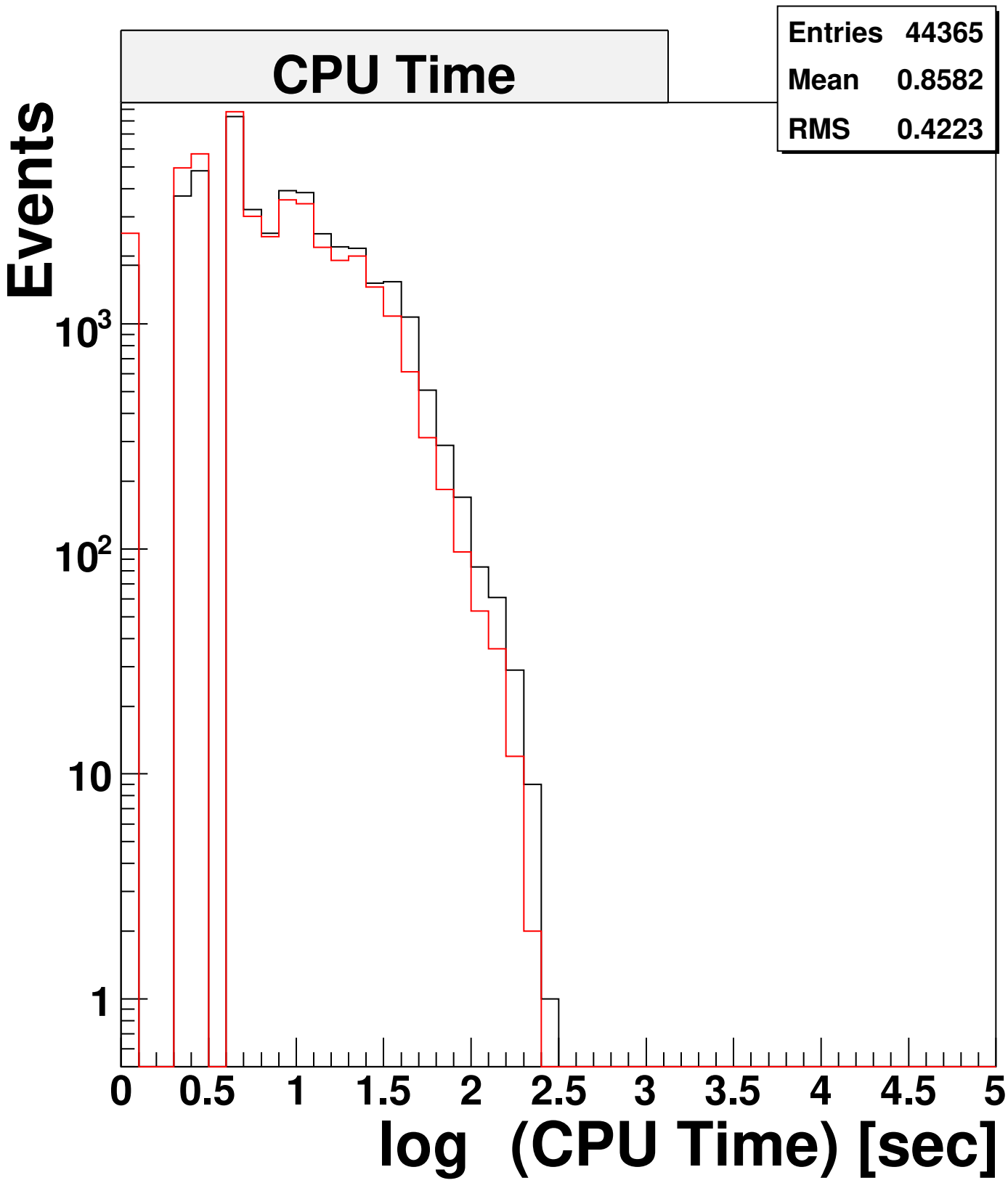








TES Turnon curves (L1CTT All)



RECO Performance (Timing)