dayset-2006-08-29-all_4-224656-0_certification_20070
../../d0farm/dayset-2006-08-29-all_4-224656-0_certifica

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Page 4: Tracks Hits (All)
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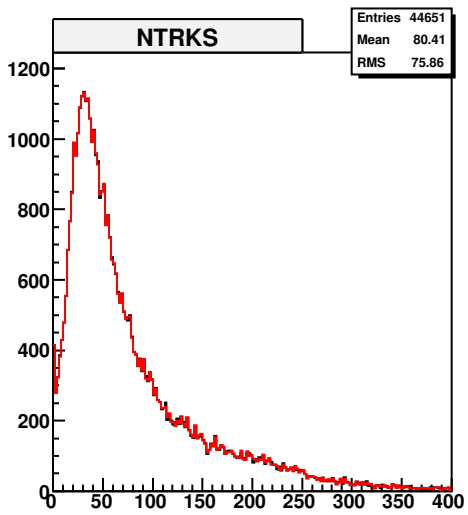
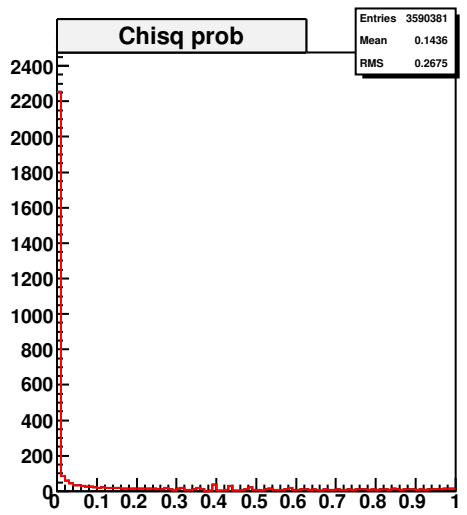
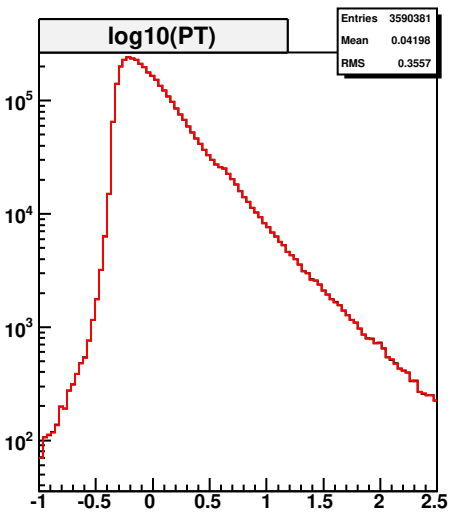
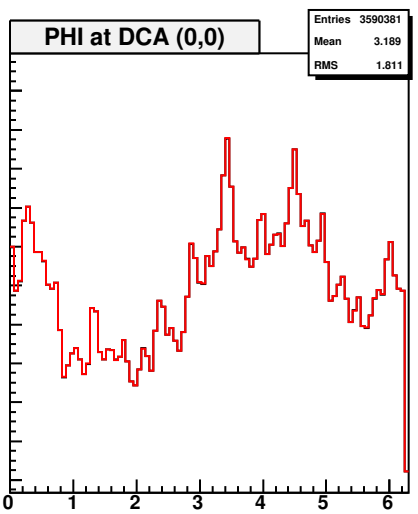
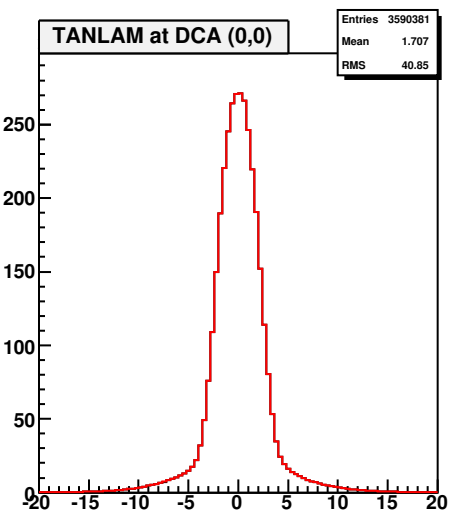
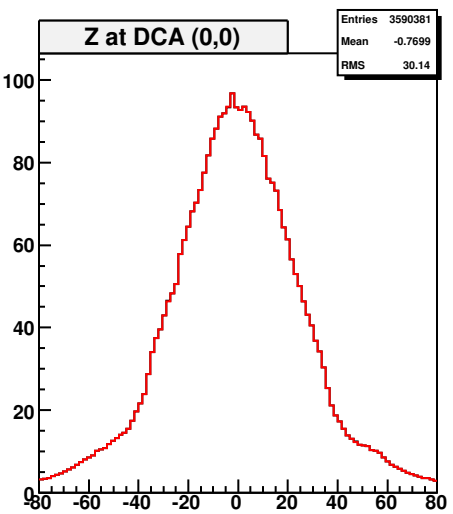

NTRKS
Entries 44651
Mean 80.41
RMS 75.86

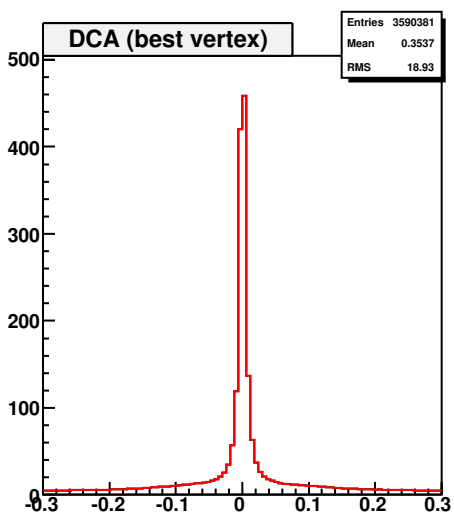

Chisq prob
Entries 3590381
Mean 0.1436
RMS 0.2675

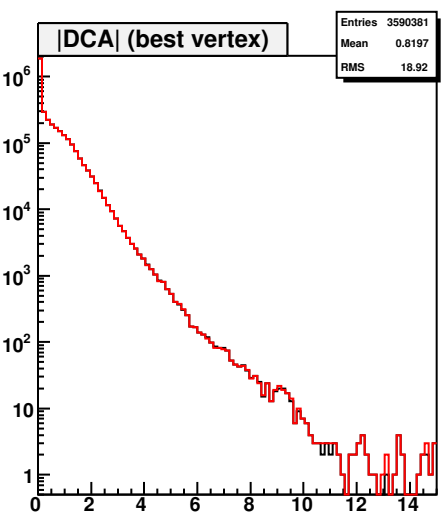

log10(PT)
Entries 3590381
Mean 0.04198
RMS 0.3557

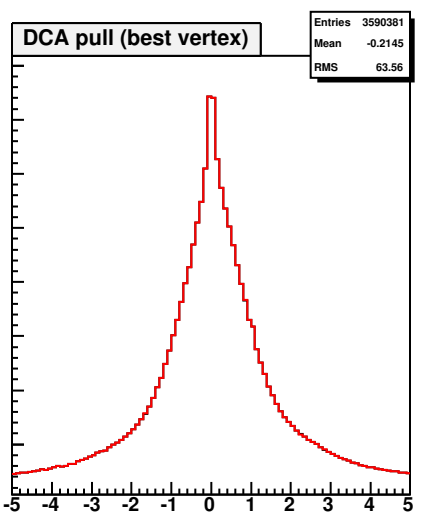

PHI at DCA (0,0)
Entries 3590381
Mean 3.189
RMS 1.811


TANLAM at DCA (0,0)
Entries 3590381
Mean 1.707
RMS 40.85

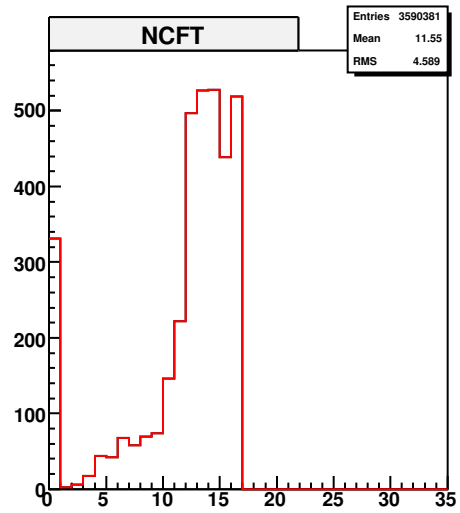

Z at DCA (0,0)
Entries 3590381
Mean -0.7699
RMS 30.14

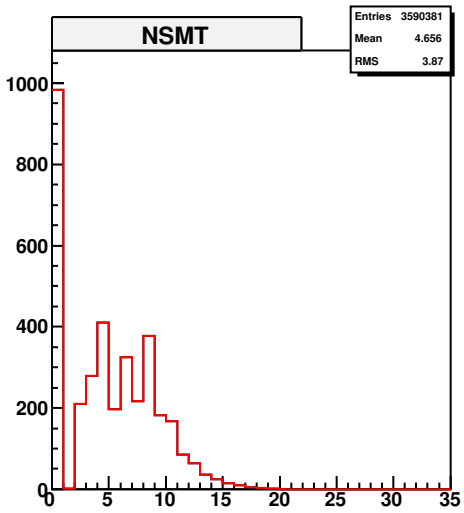

DCA (best vertex)
Entries 3590381
Mean 0.3537
RMS 18.93

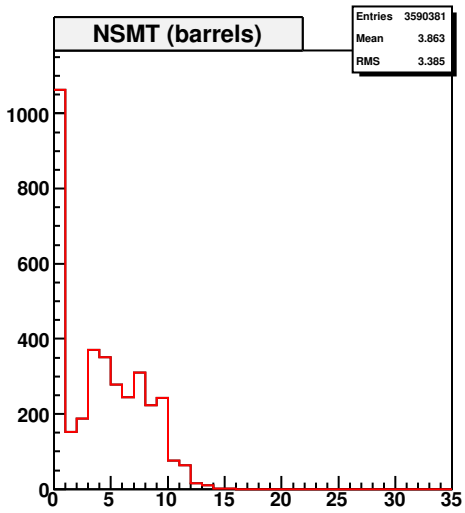

|DCA| (best vertex)
Entries 3590381
Mean 0.8197
RMS 18.92

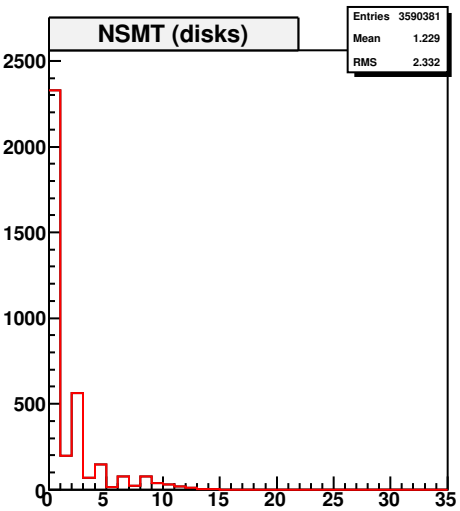

DCA pull (best vertex)
Entries 3590381
Mean -0.2145
RMS 63.56

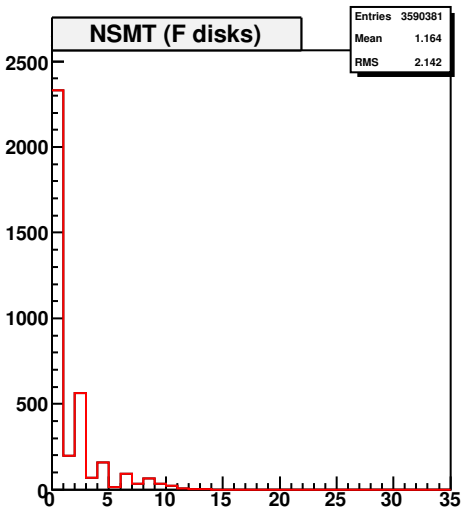
Tracks (All)

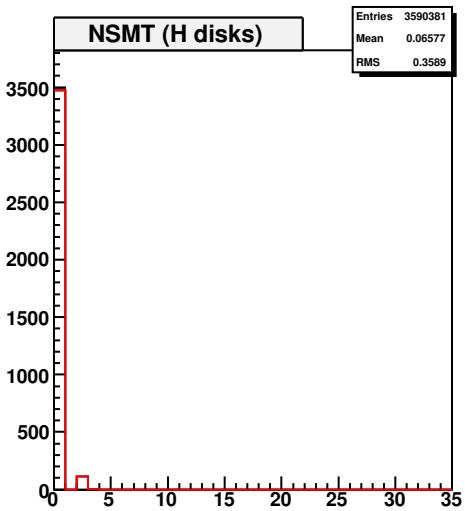


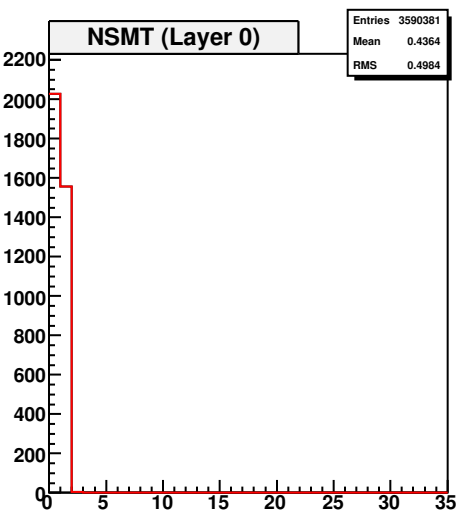




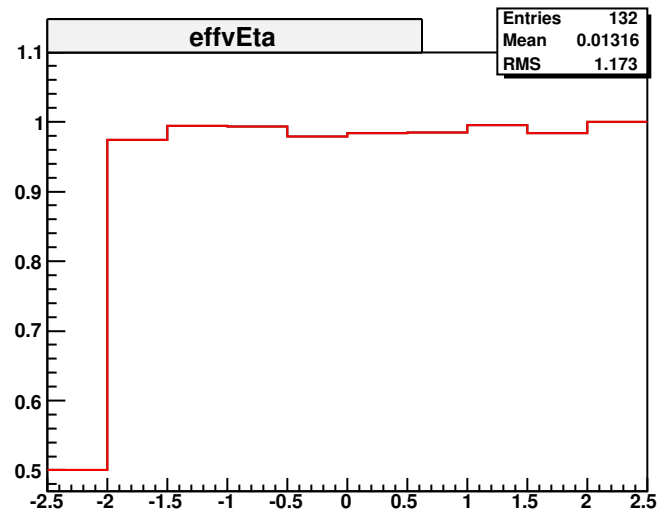


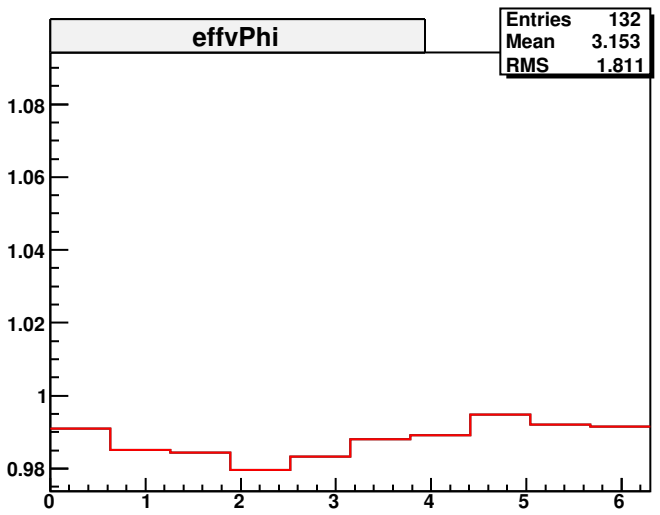


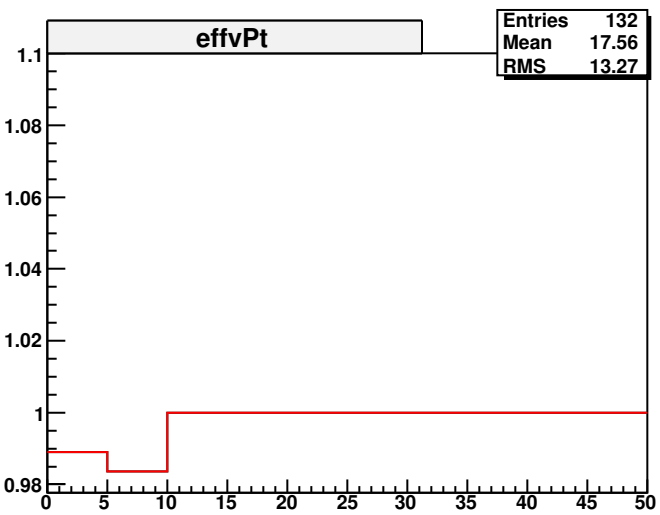


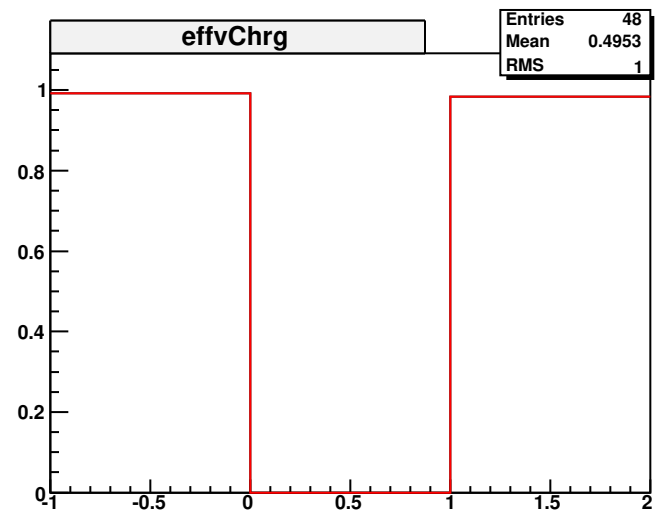


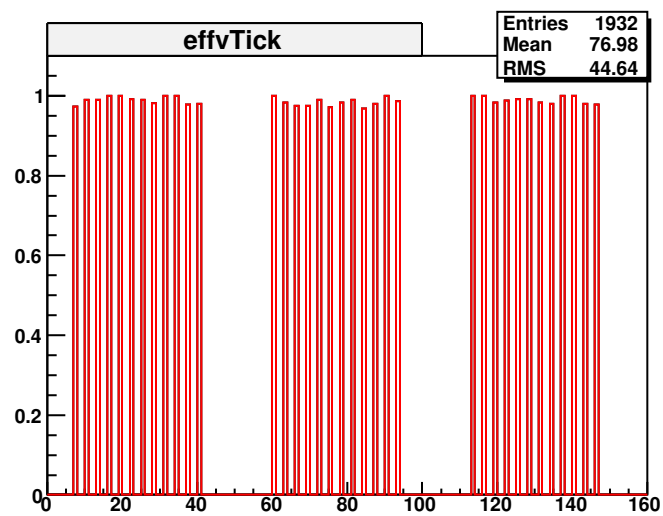
Track Hits (All)

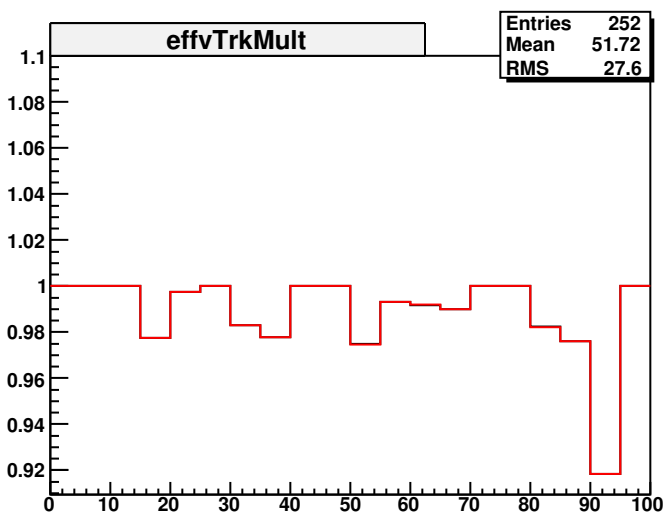




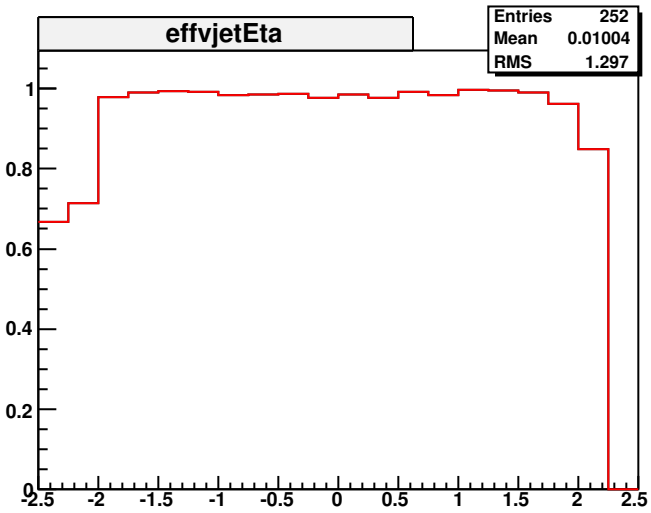


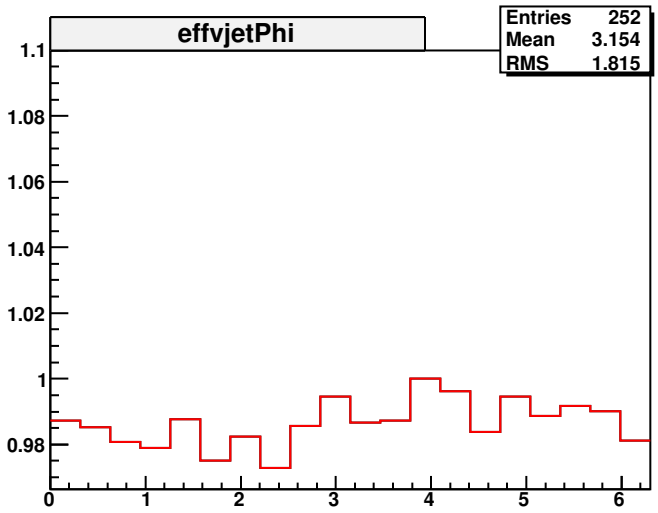


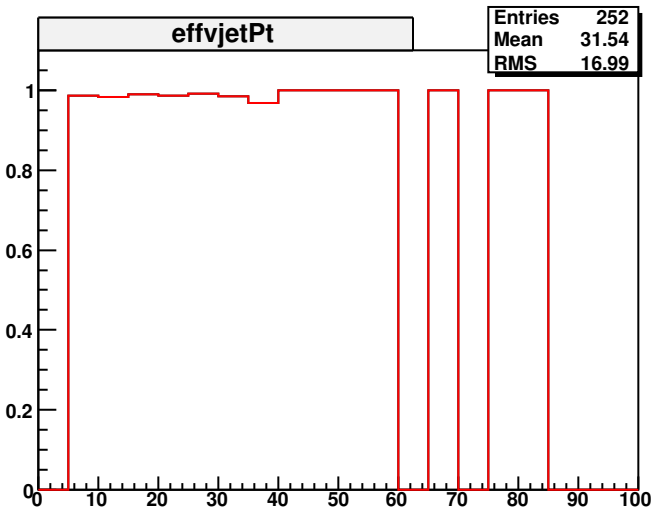




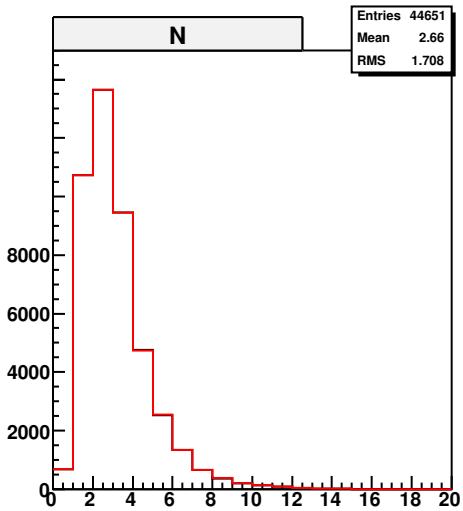
Tracking (Efficiency-Isolated)

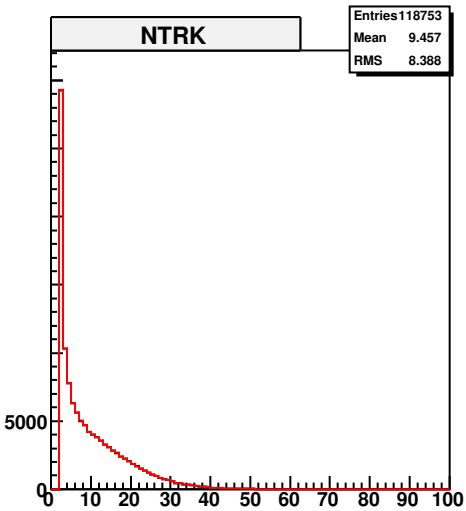


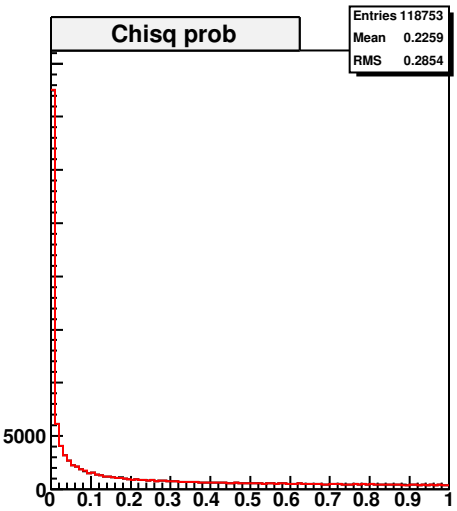


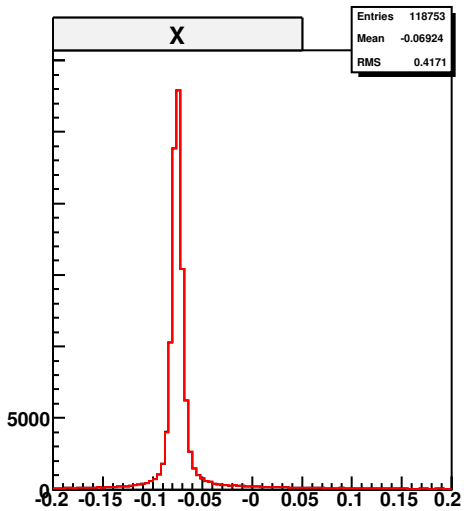


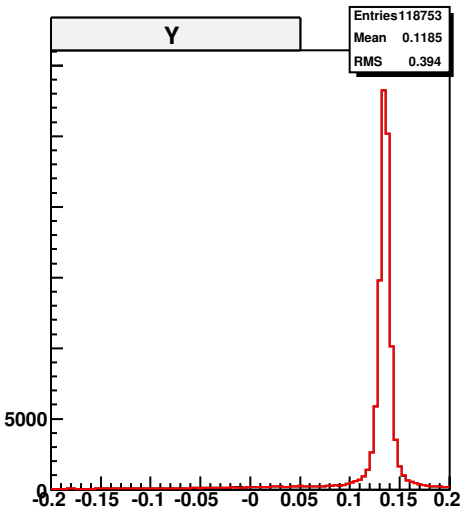
Tracking (Efficiency-InJets)

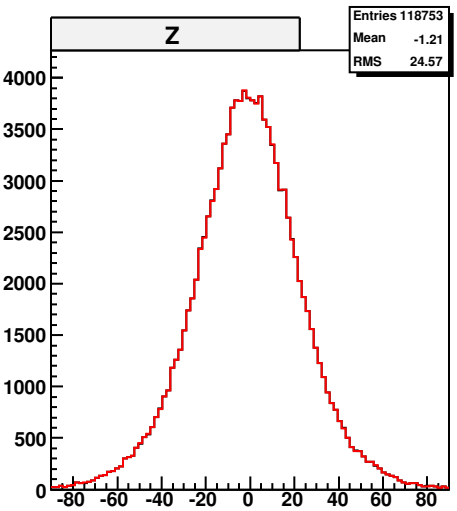




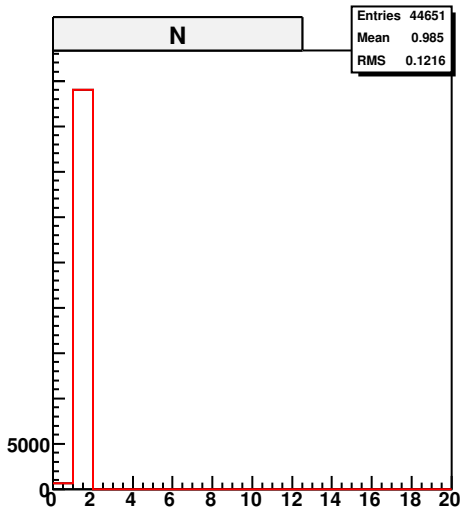


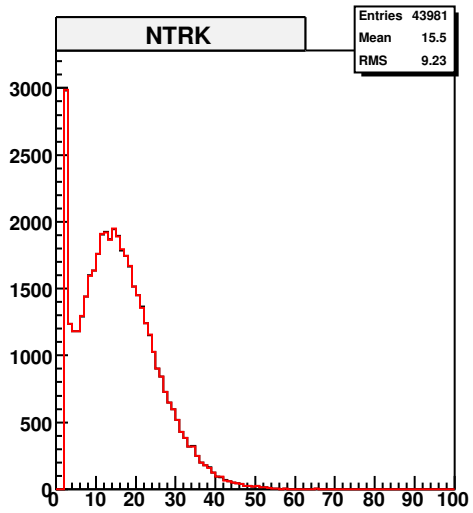


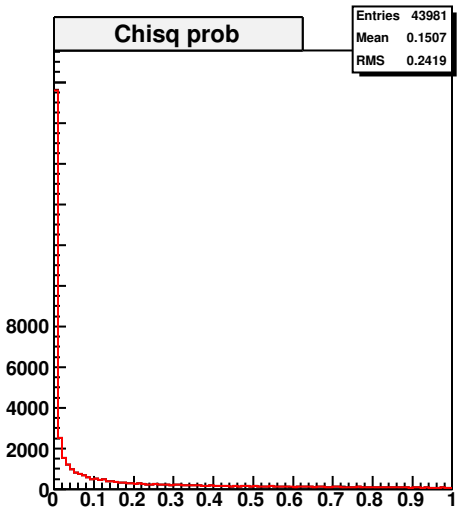


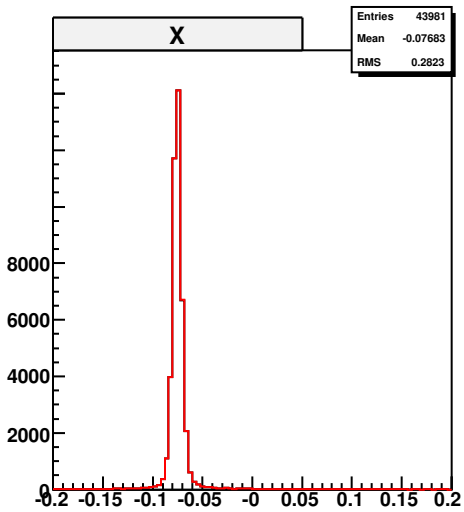


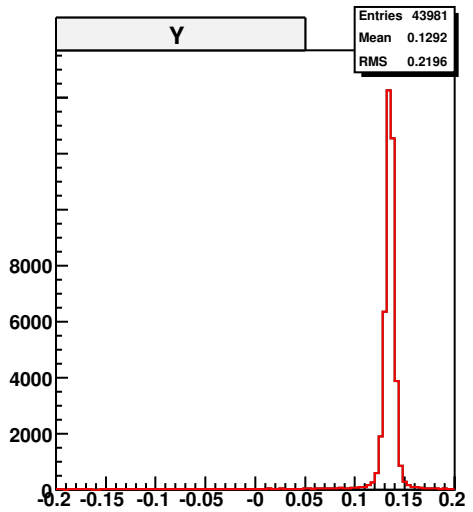
Vertices (Primary - all candidates)

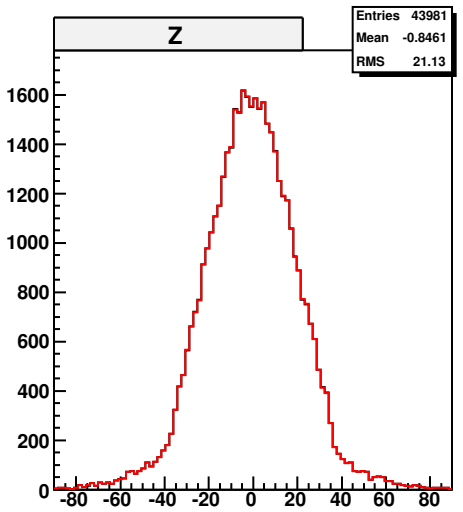




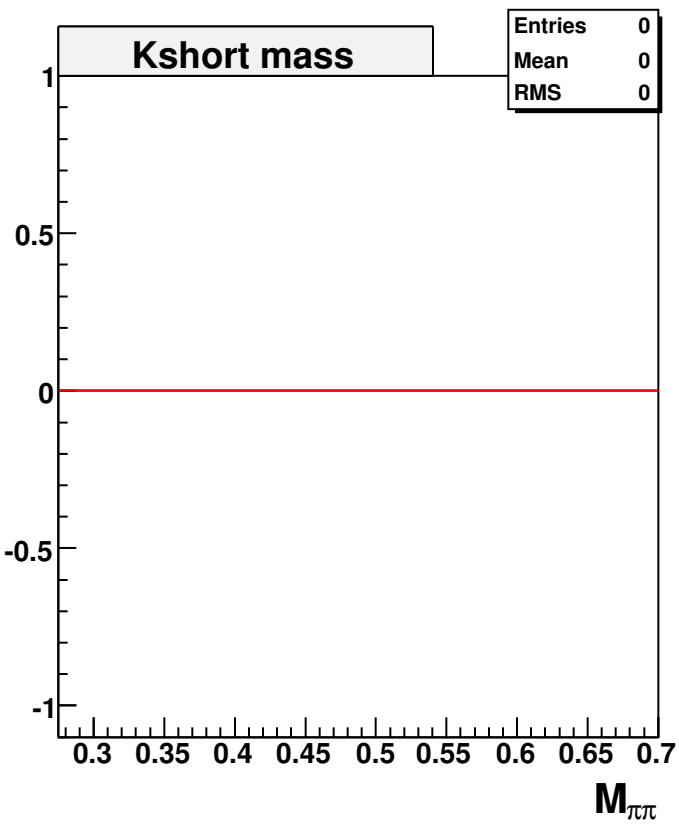


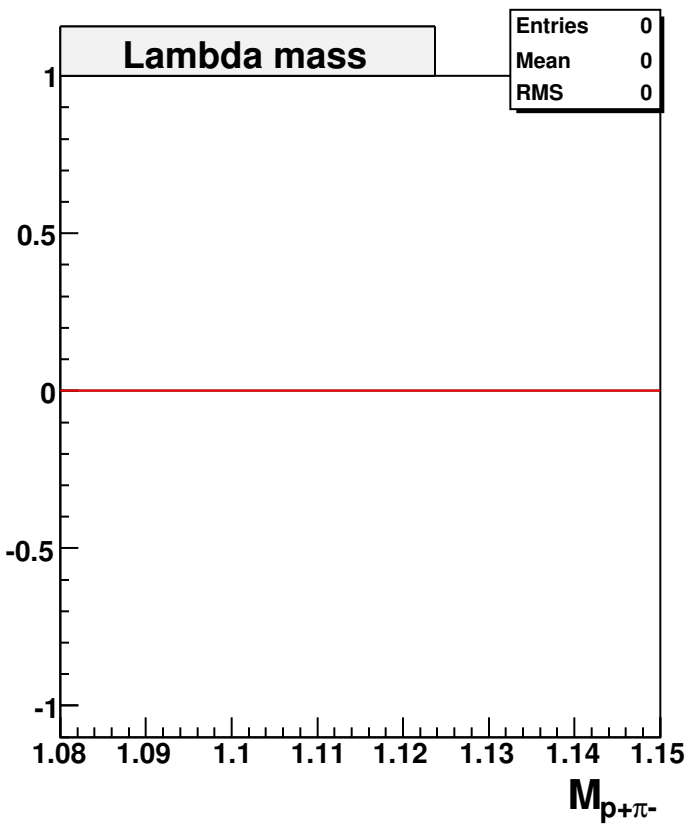


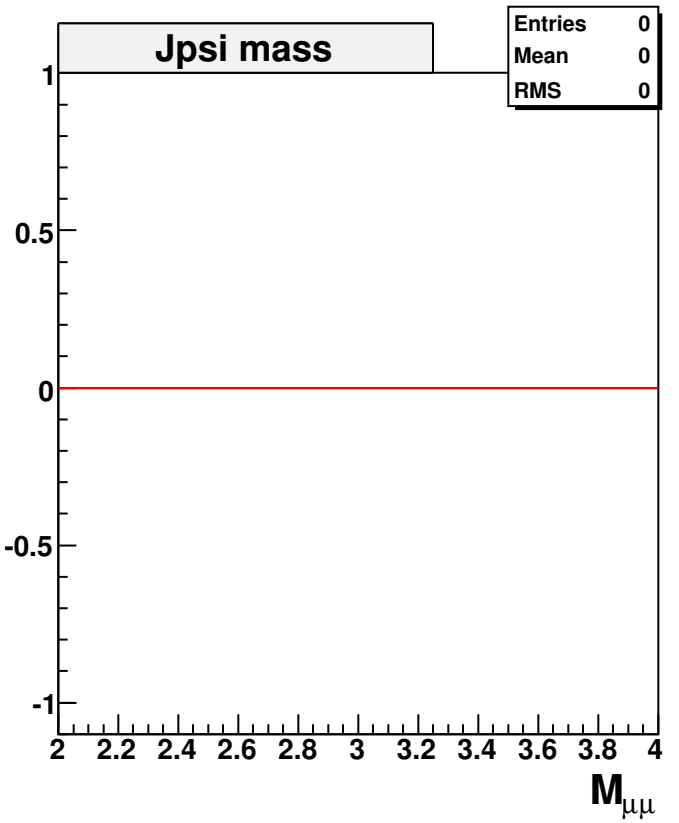


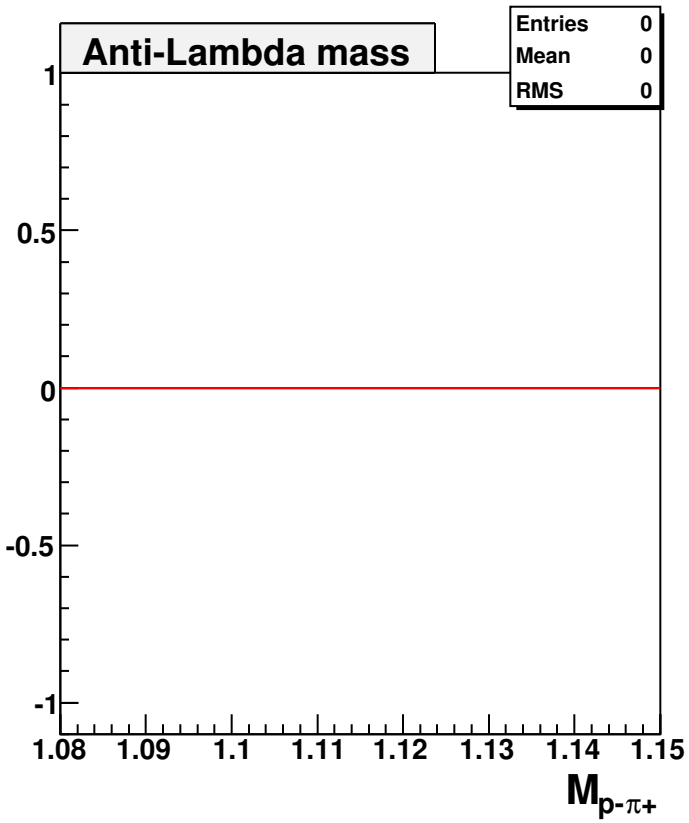


Vertices (Primary - best)

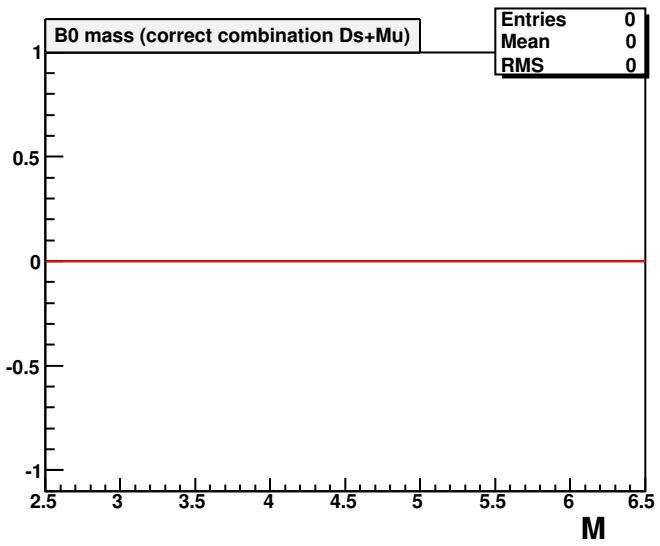

Kshort mass
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

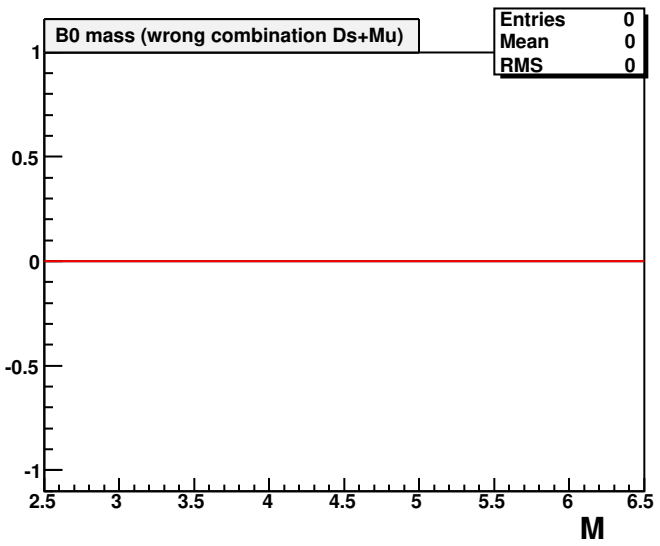

Lambda mass
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

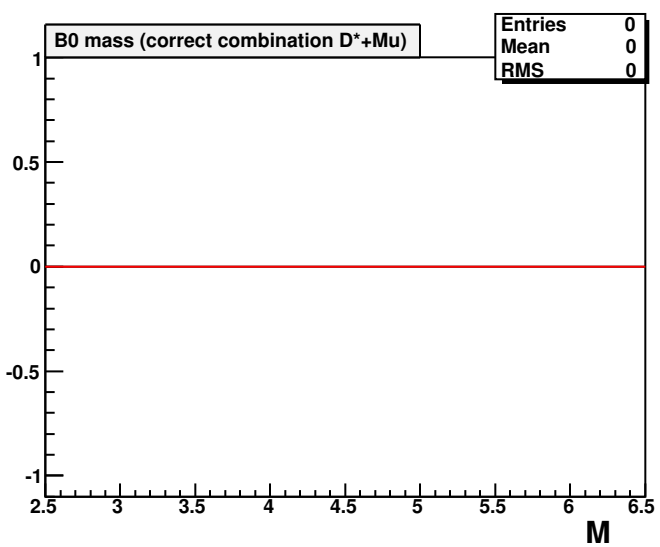

Jpsi mass
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

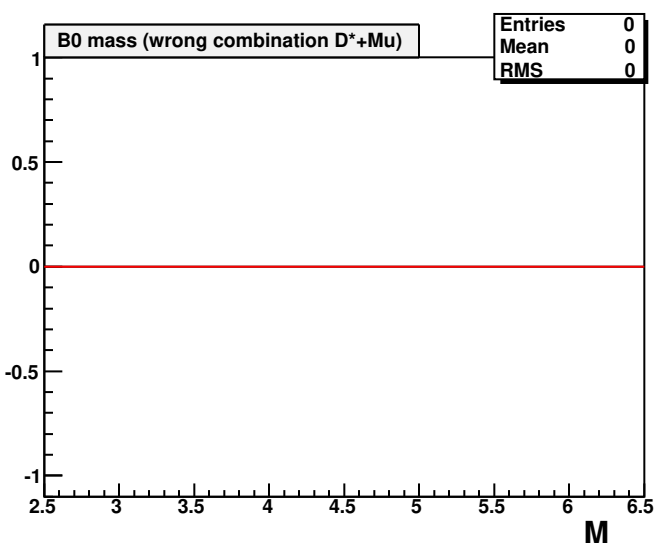

Anti-Lambda mass
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

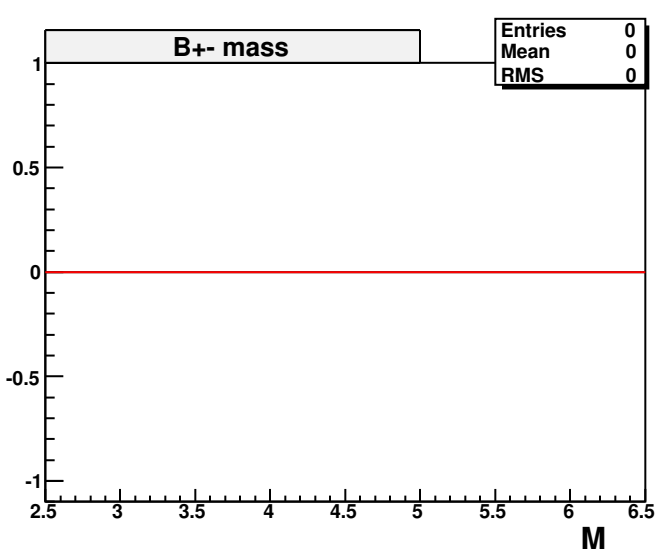
V0 (All)



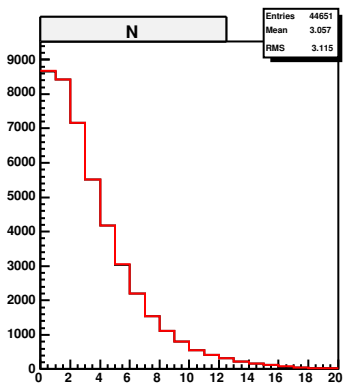


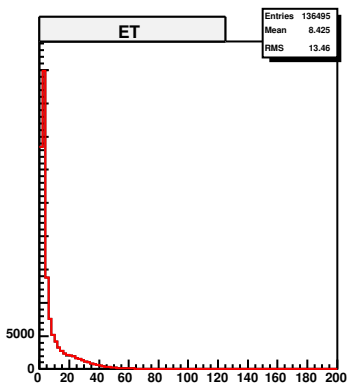


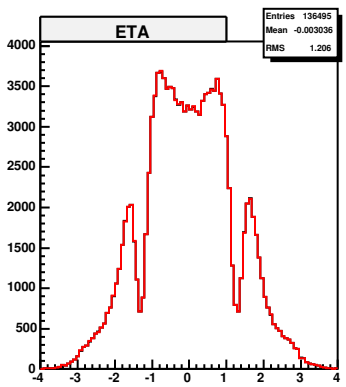


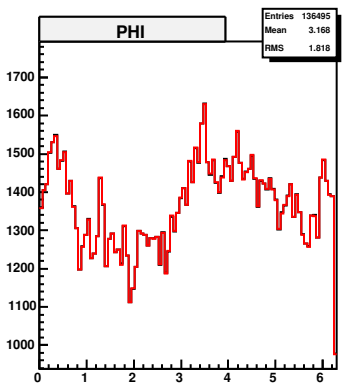


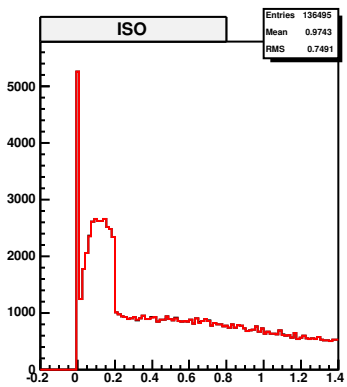
V0(B mesons) (All)

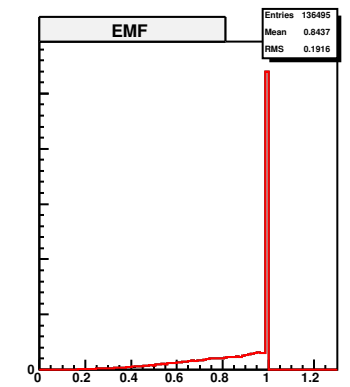


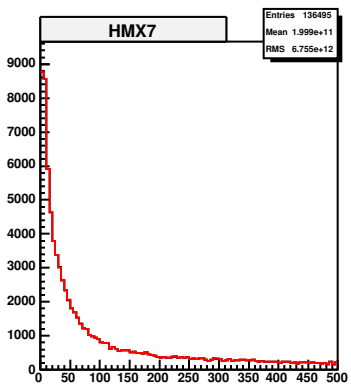


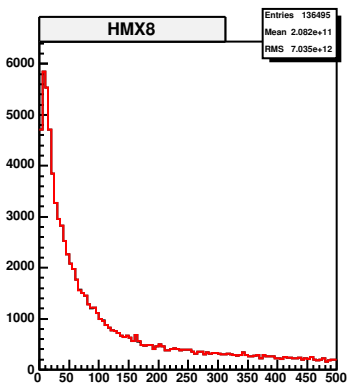


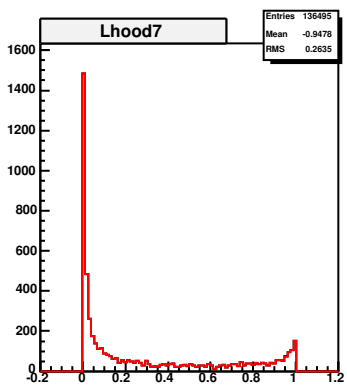


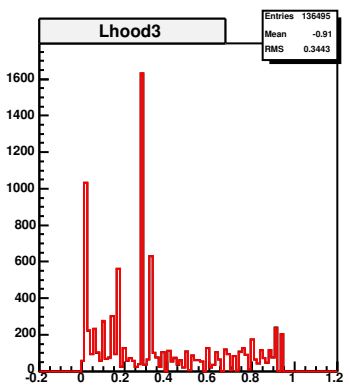


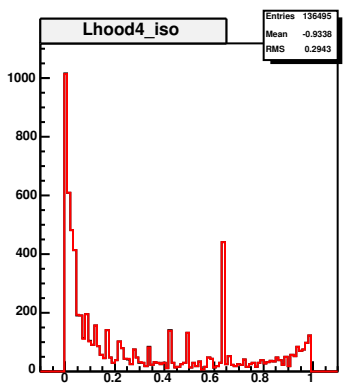


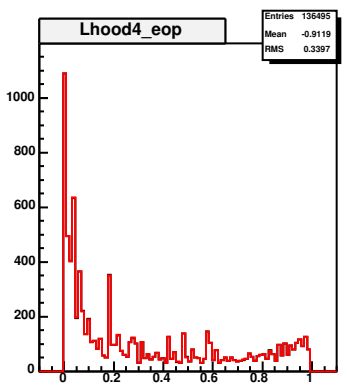


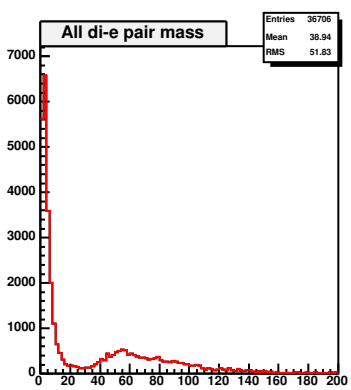


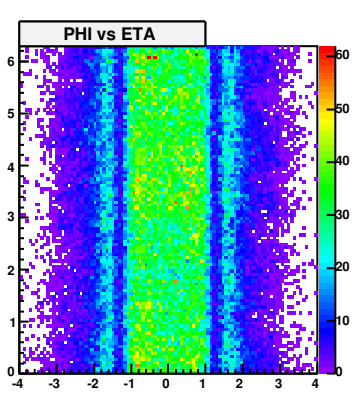


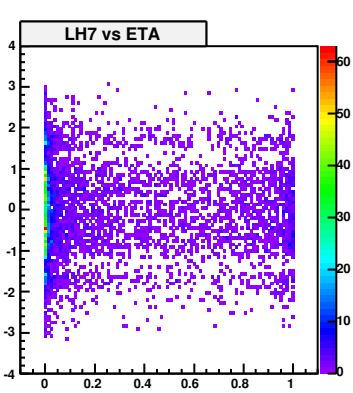


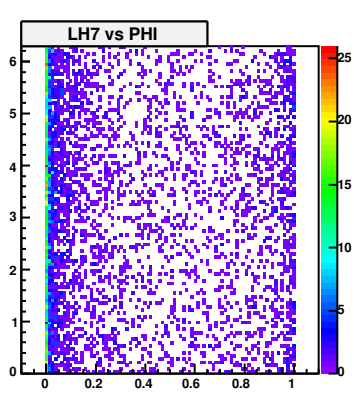




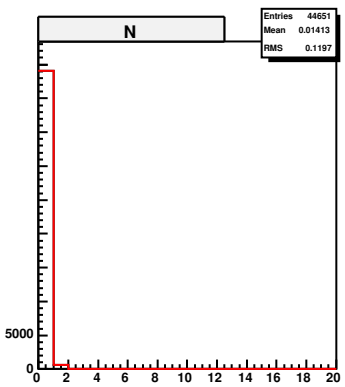


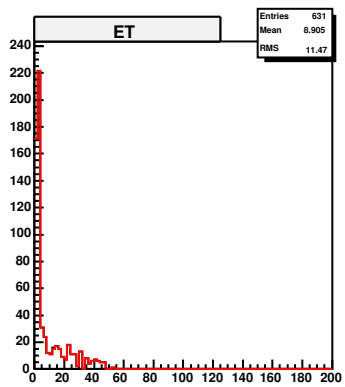


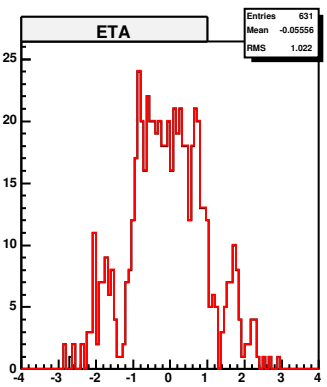


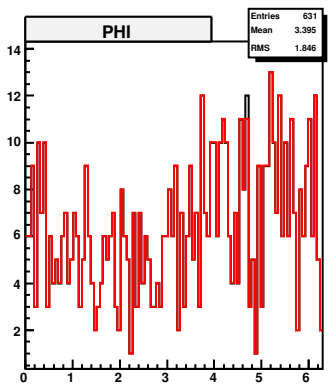


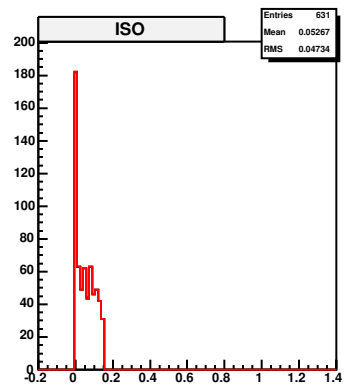
Electrons (SCONE All)

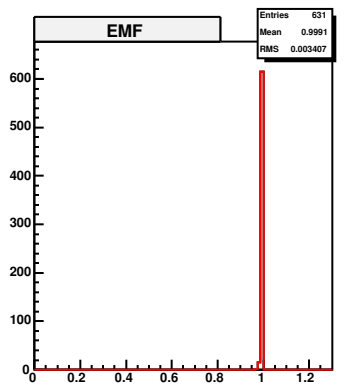


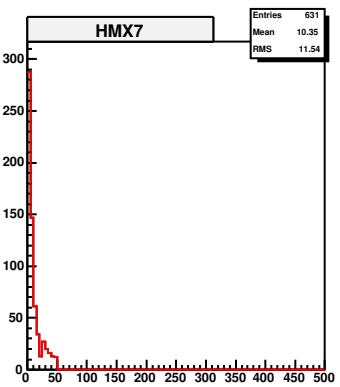


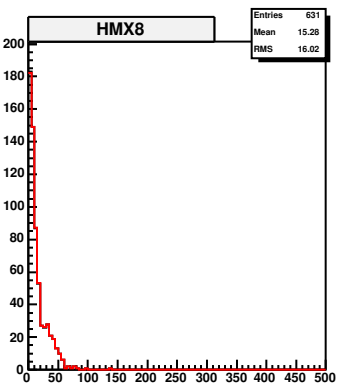


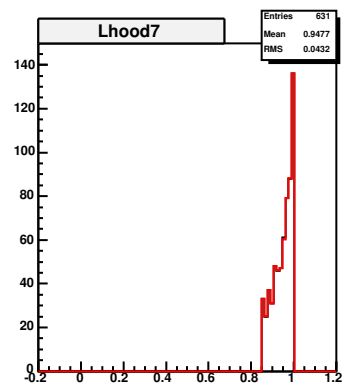


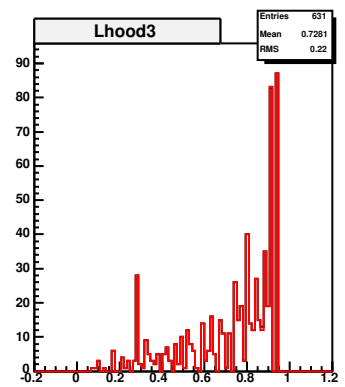


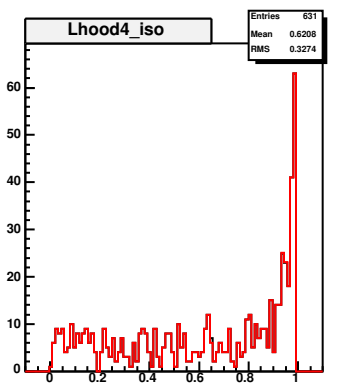


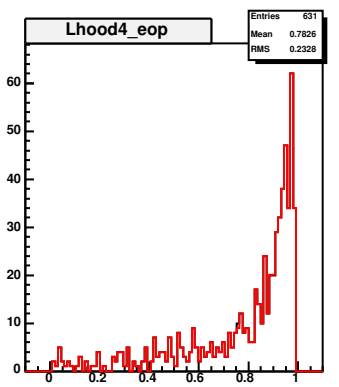


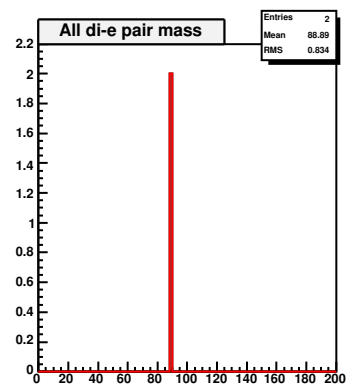


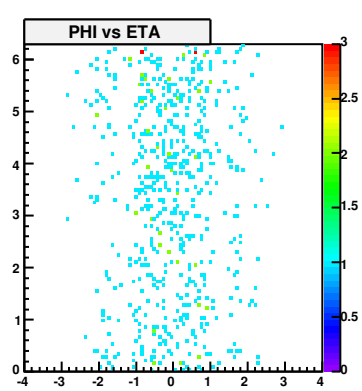


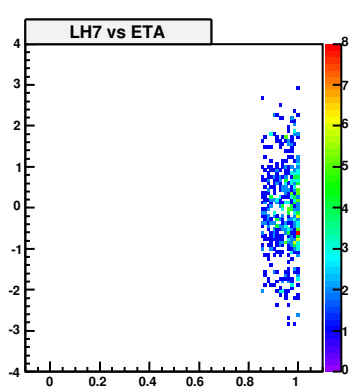


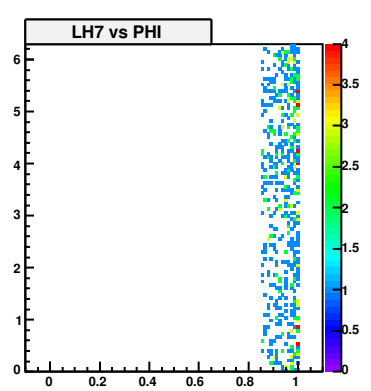




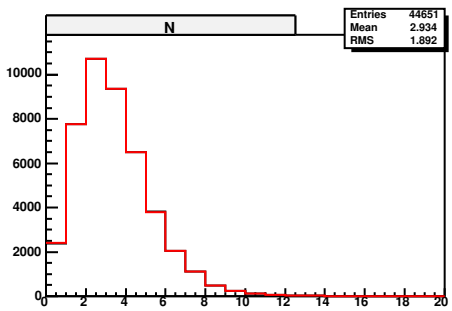


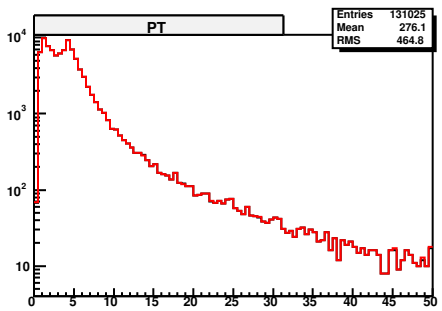


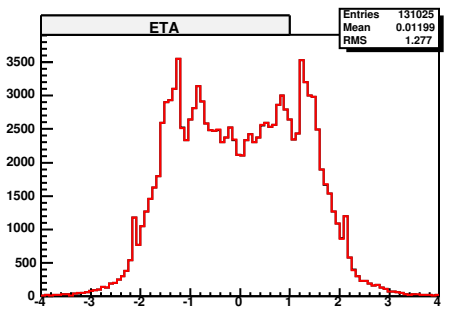


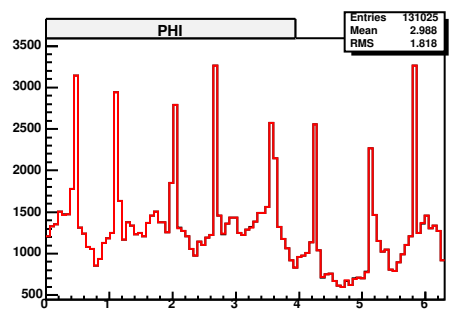


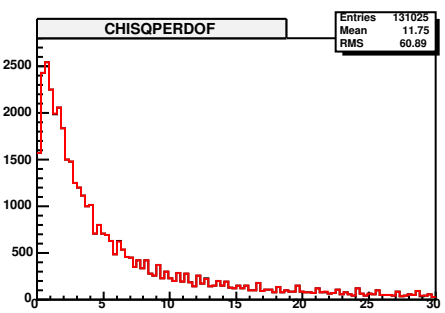
Electrons (SCONE Tight)

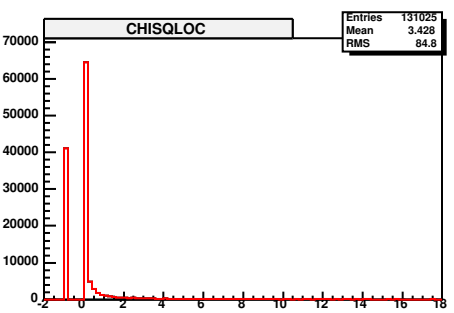

N
Entries 44651
Mean 2.934
RMS 1.892

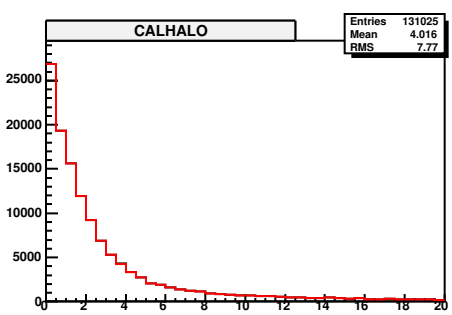

PT
Entries 131025
Mean 276.1
RMS 464.8

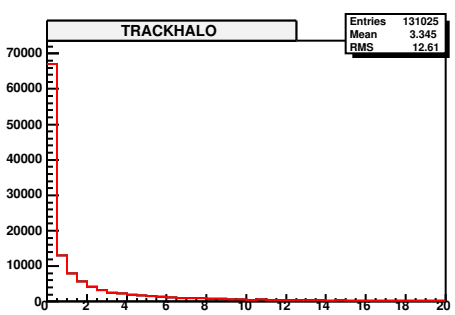

ETA
Entries 131025
Mean 0.01199
RMS 1.277

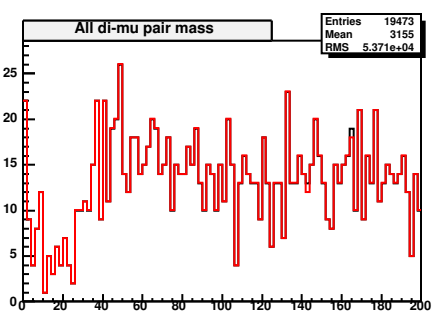

PHI
Entries 131025
Mean 2.988
RMS 1.818

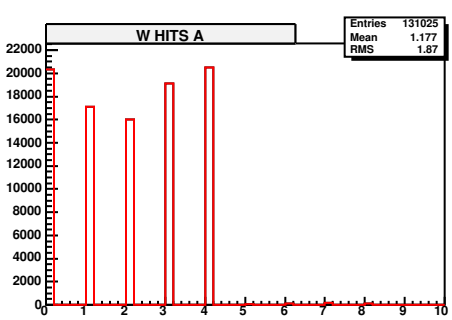

CHISQPERDOF
Entries 131025
Mean 11.75
RMS 60.89

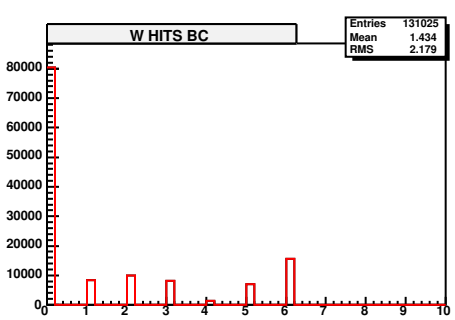

CHISQLOC
Entries 131025
Mean 3.428
RMS 84.8

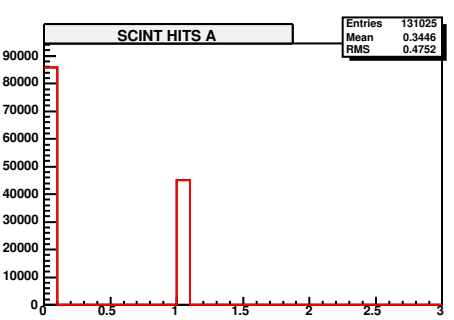

CALHALO
Entries 131025
Mean 4.016
RMS 7.77

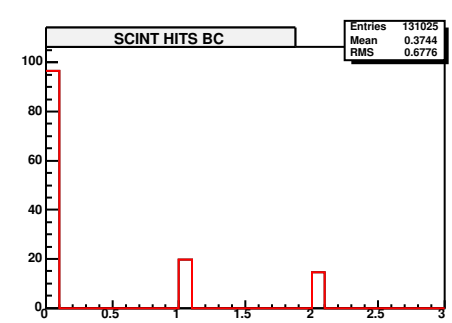

TRACKHALO
Entries 131025
Mean 3.345
RMS 12.61


All di-mu pair mass
Entries 19473
Mean 3155
RMS 5.371e+04

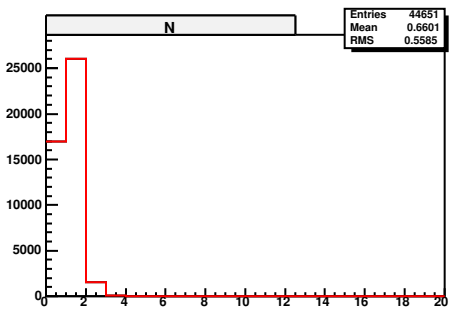

W HITS A
Entries 131025
Mean 1.177
RMS 1.87

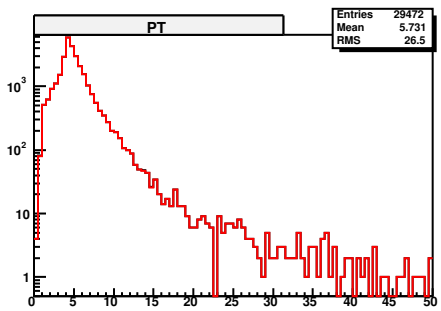

W HITS BC
Entries 131025
Mean 1.434
RMS 2.179

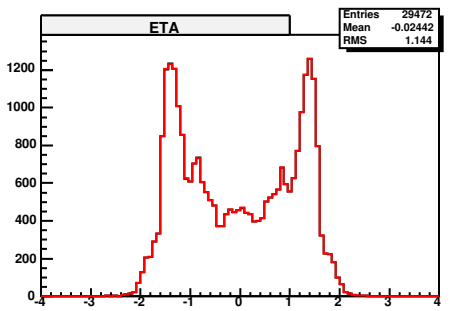

SCINT HITS A
Entries 131025
Mean 0.3446
RMS 0.4752

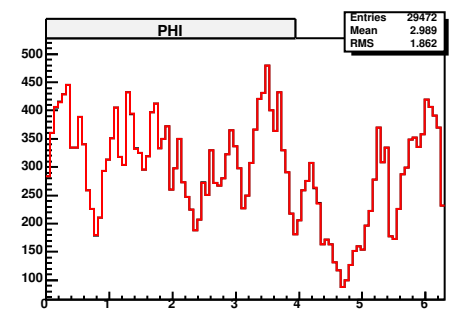

SCINT HITS BC
Entries 131025
Mean 0.3744
RMS 0.6776

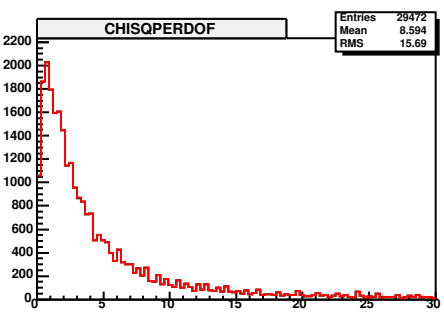
Muons (All)

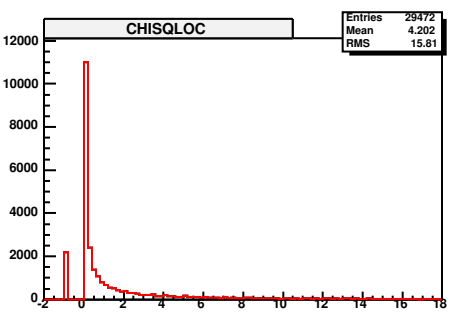


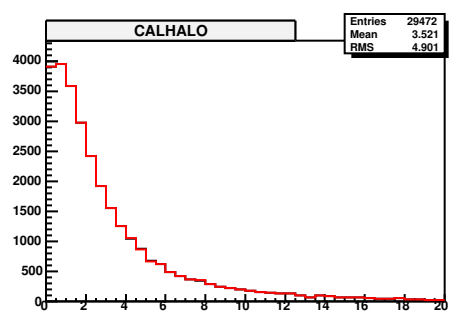


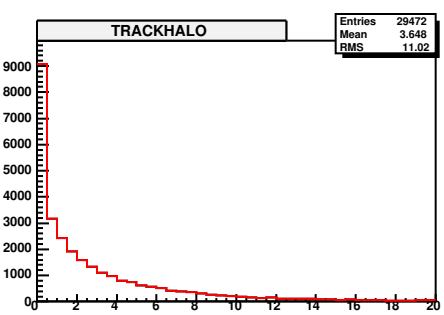


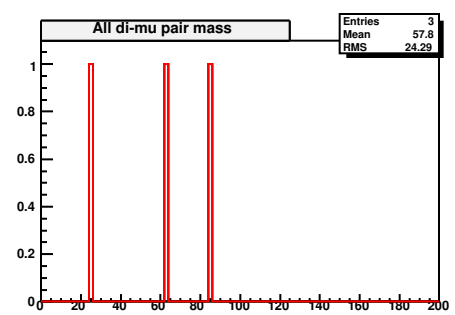


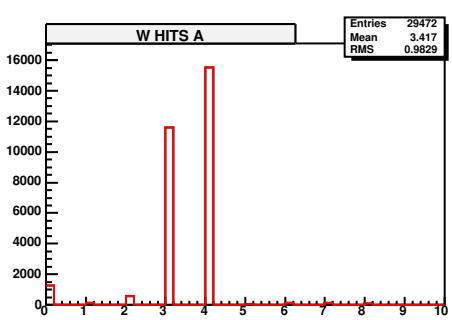


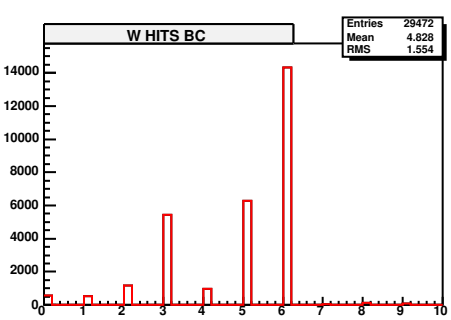


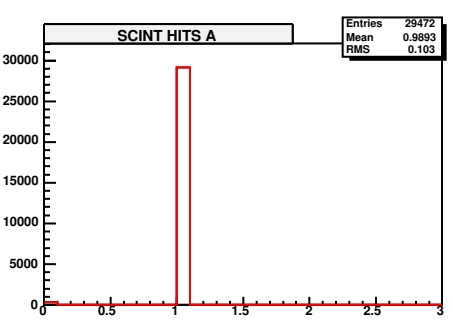


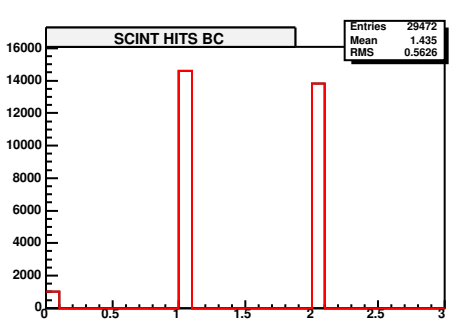




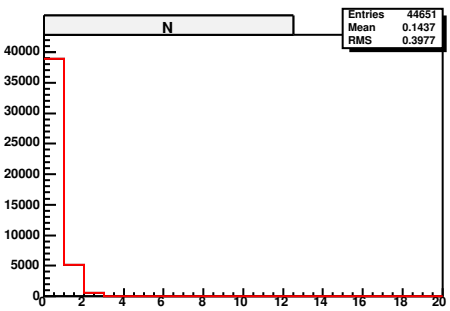


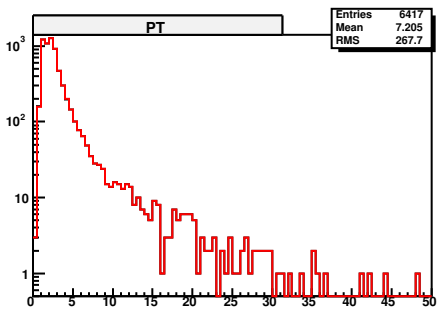


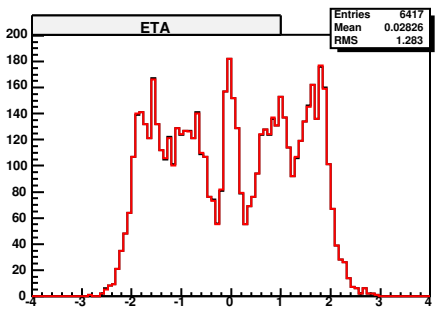


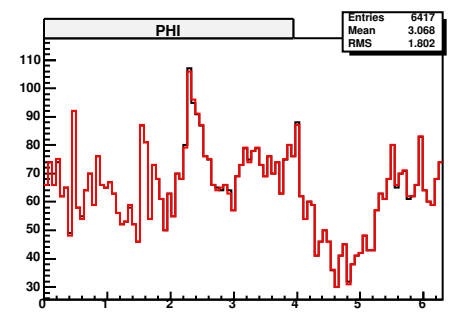


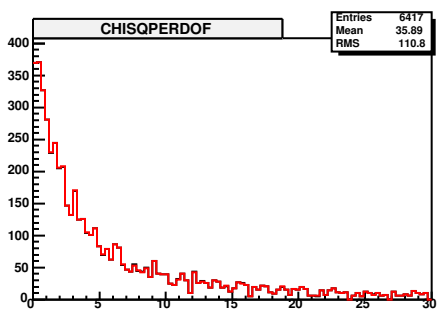
Muons (Matched)


N
Entries 44651
Mean 0.1437
RMS 0.3977


PT
Entries 6417
Mean 7.205
RMS 267.7


ETA
Entries 6417
Mean 0.02826
RMS 1.283


PHI
Entries 6417
Mean 3.068
RMS 1.802


CHISQPERDOF
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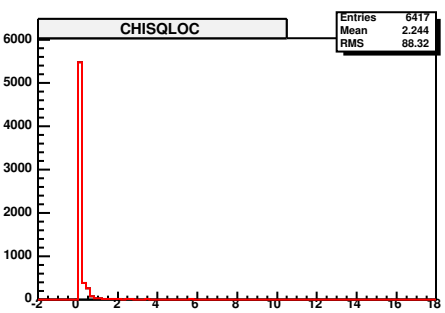
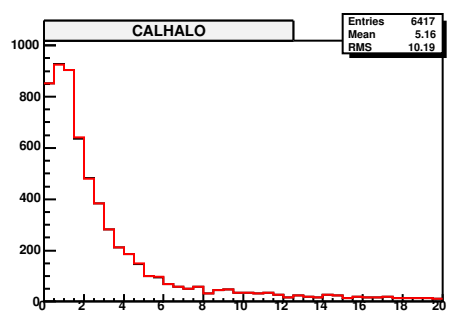
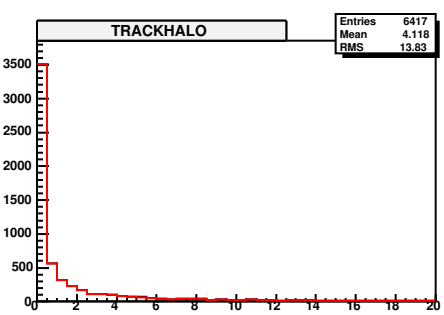
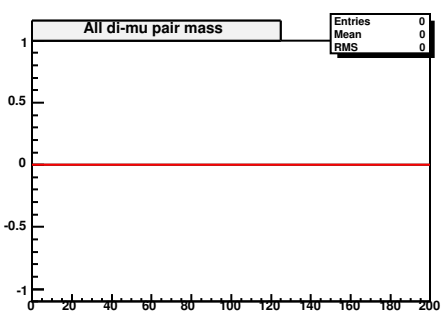
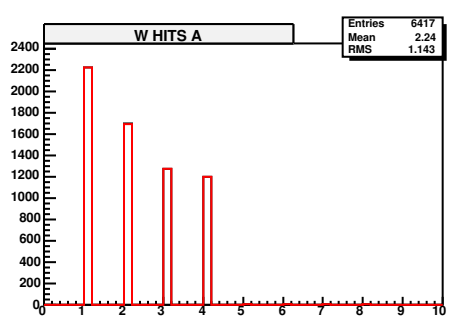
Mean 35.89
RMS 110.8

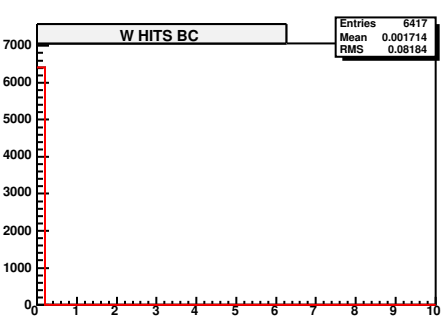

CHISQLOC
Entries 6417
Mean 2.244
RMS 88.32

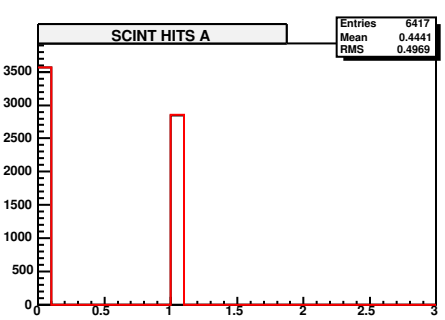

CALHALO
Entries 6417
Mean 5.16
RMS 10.19

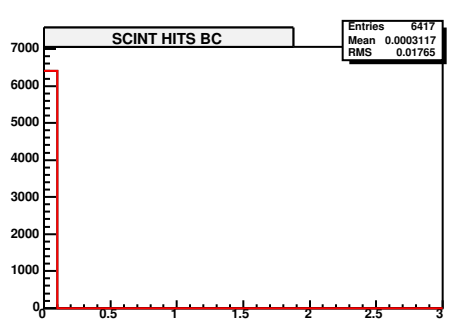

TRACKHALO
Entries 6417
Mean 4.118
RMS 13.83


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

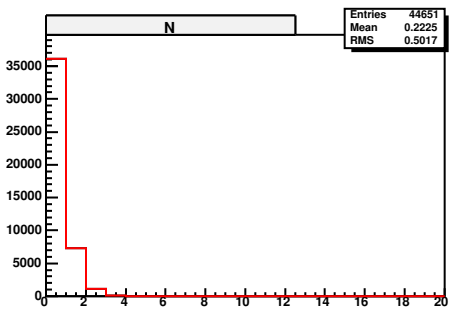

W HITS A
Entries 6417
Mean 2.24
RMS 1.143

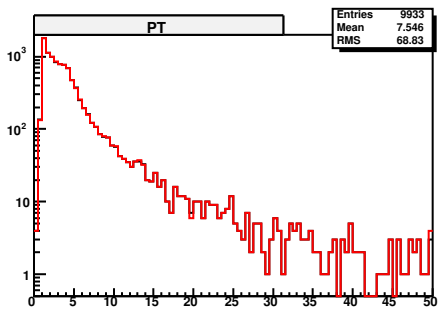

W HITS BC
Entries 6417
Mean 0.001714
RMS 0.08184

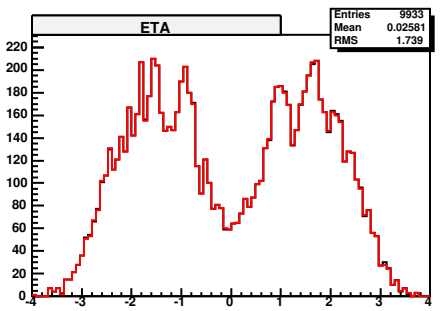

SCINT HITS A
Entries 6417
Mean 0.4441
RMS 0.4969

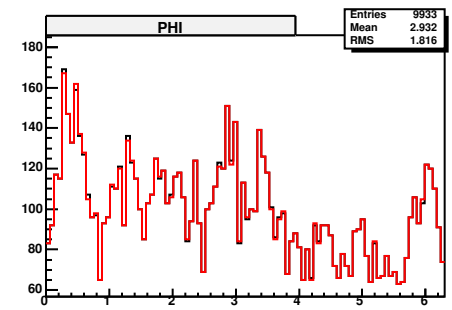

SCINT HITS BC
Entries 6417
Mean 0.0003117
RMS 0.01765

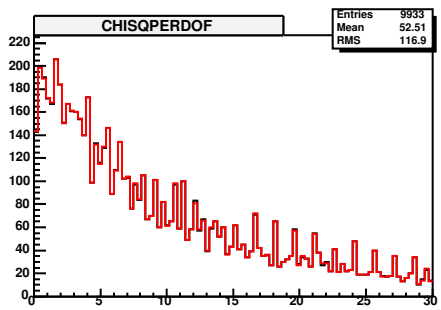
Muons (Astub)

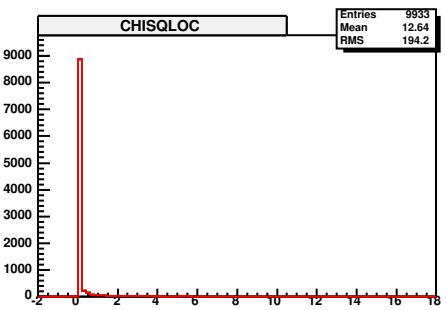


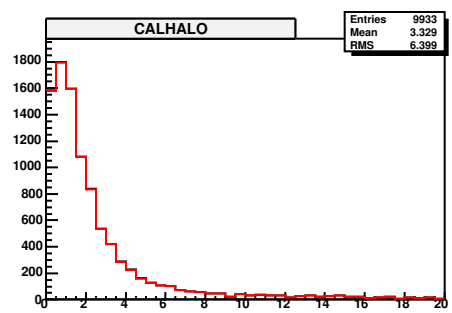


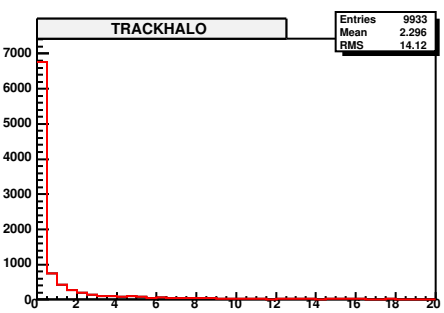


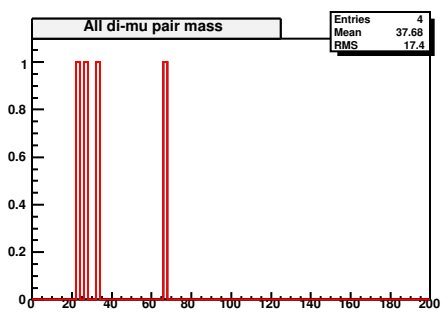


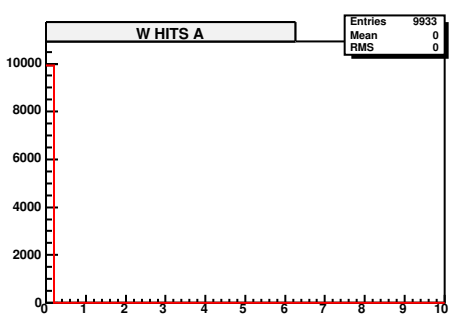


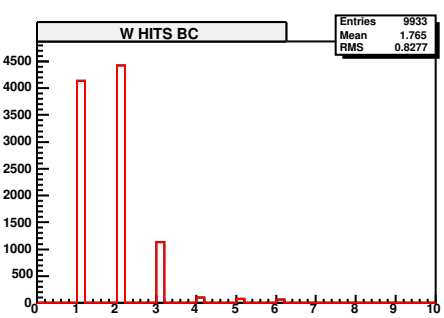


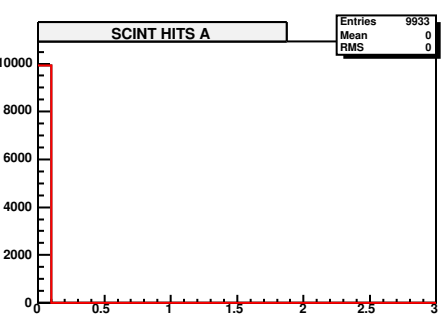


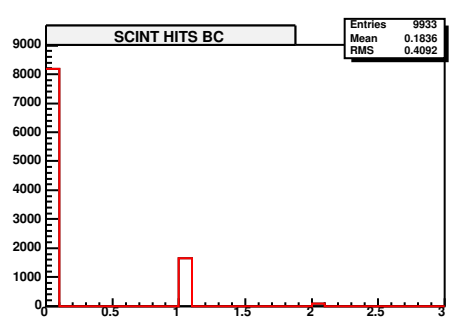




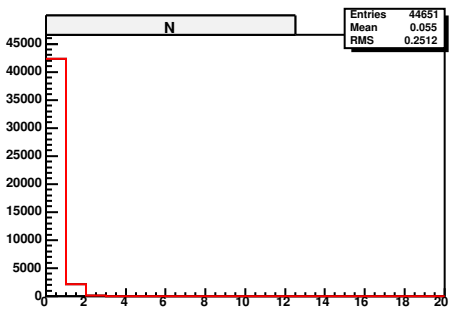


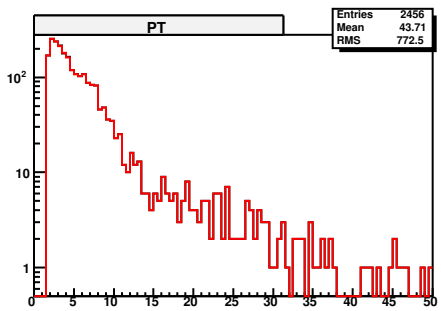


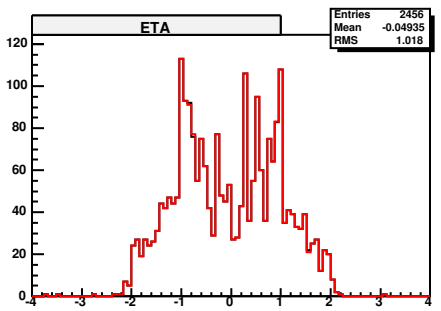


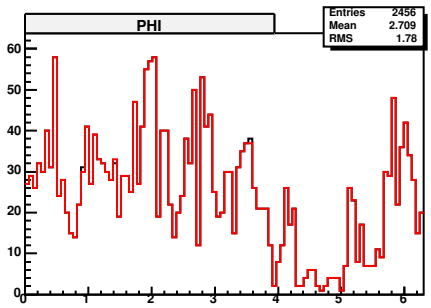


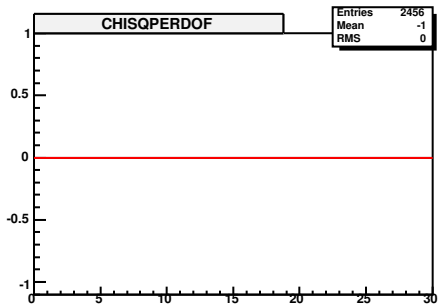
Muons (BCstub)

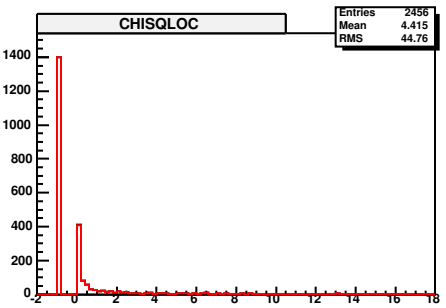


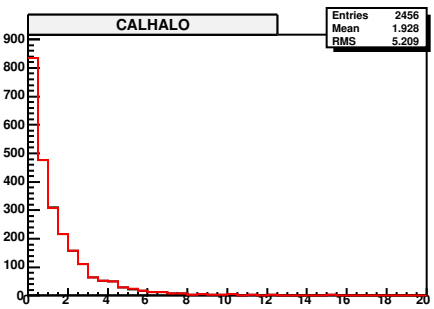


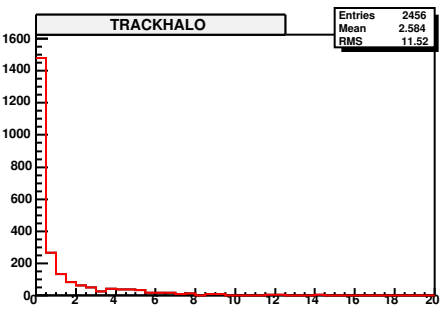


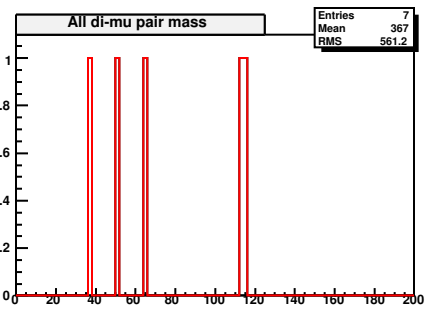


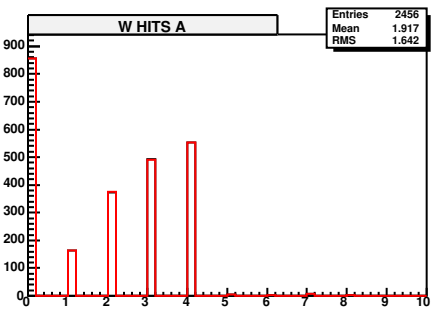


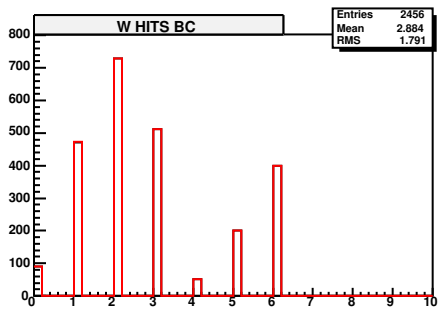


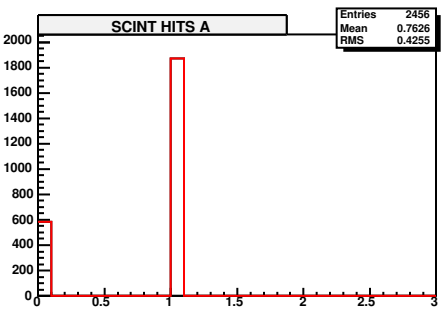


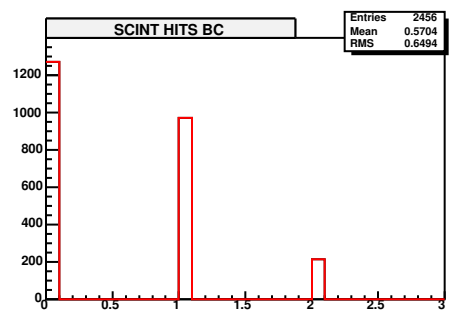




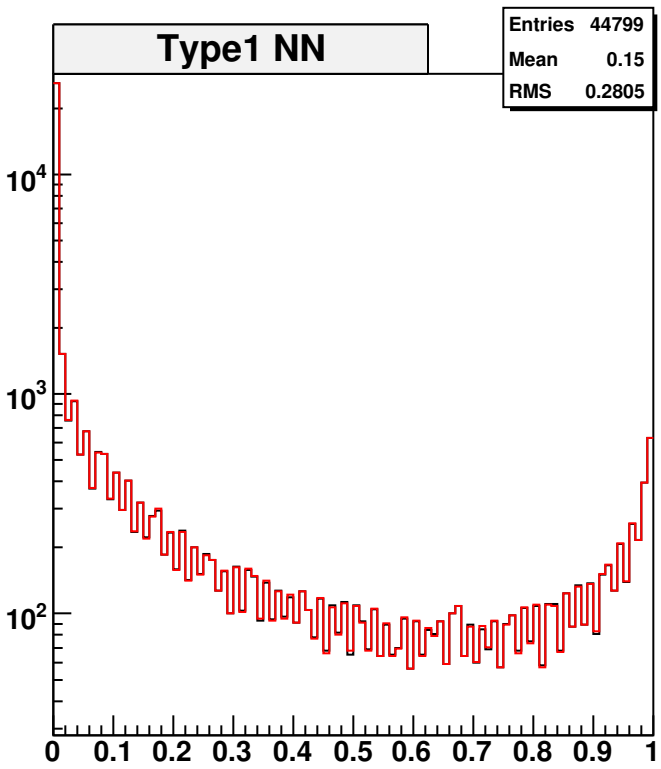


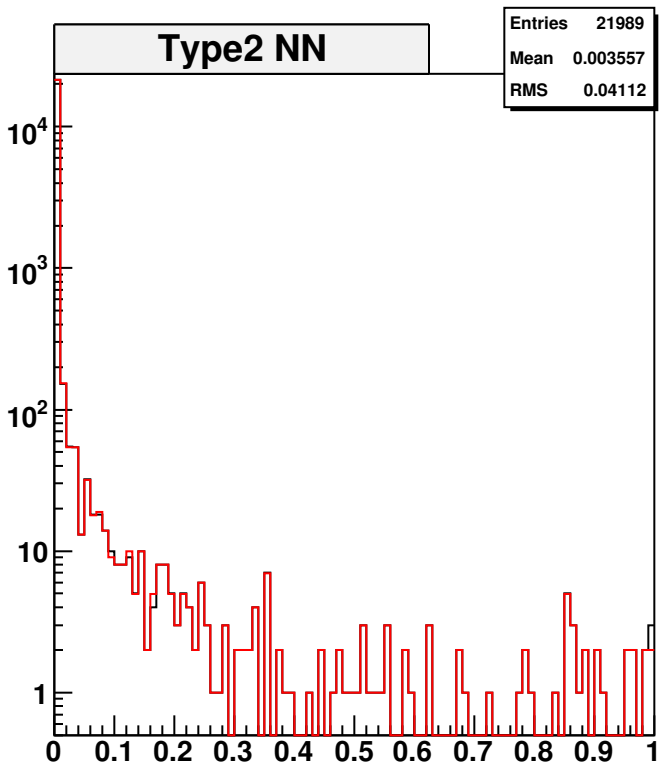


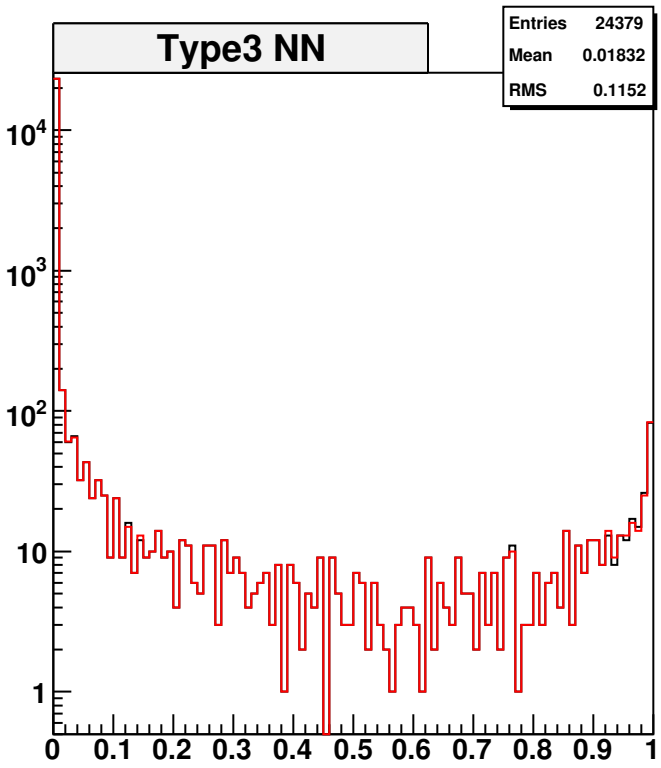


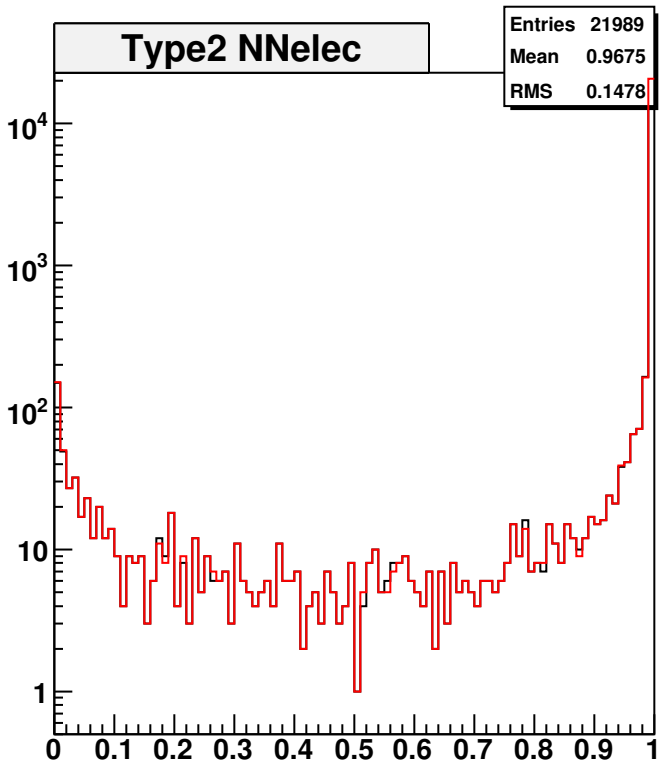


Muons (Unmatched)

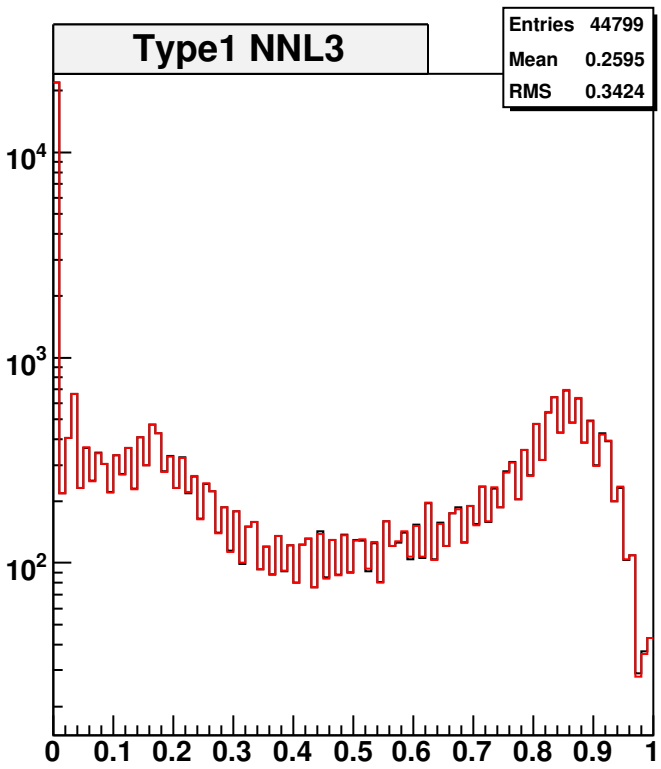


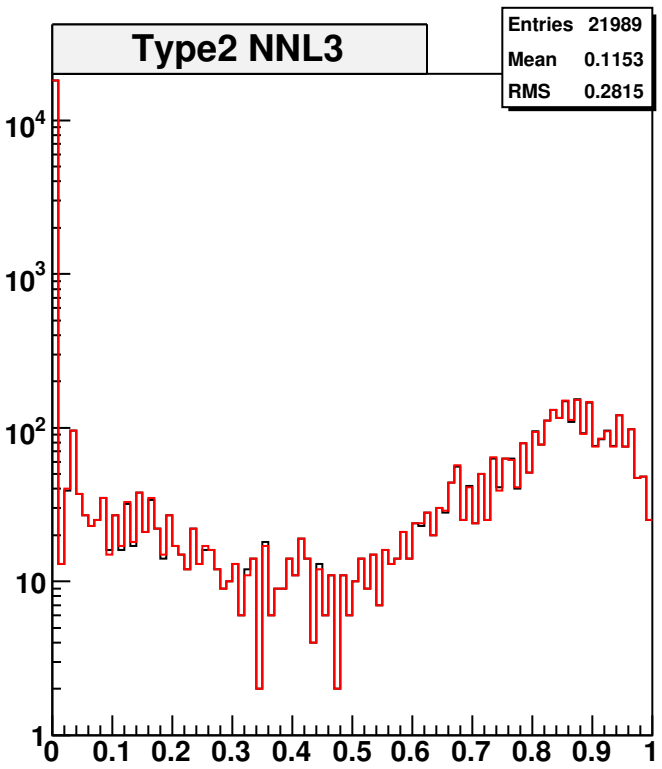


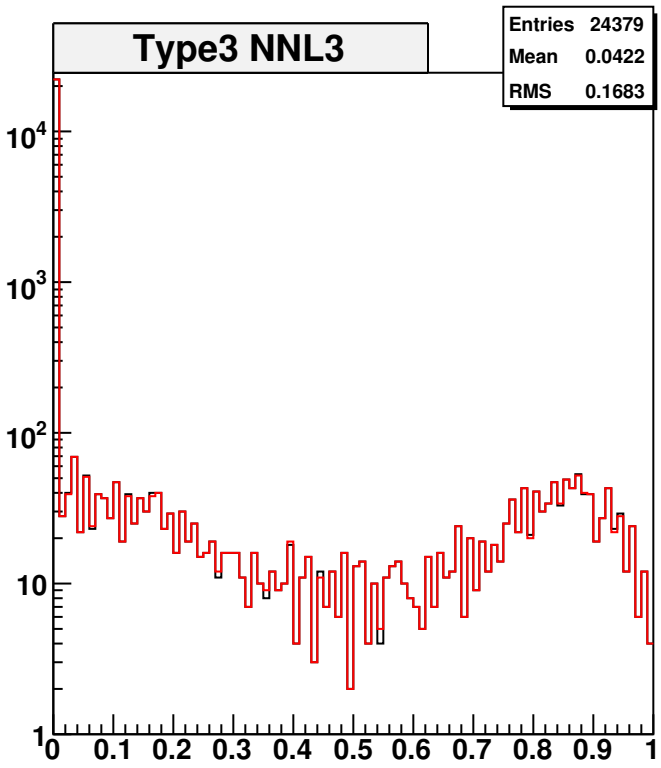


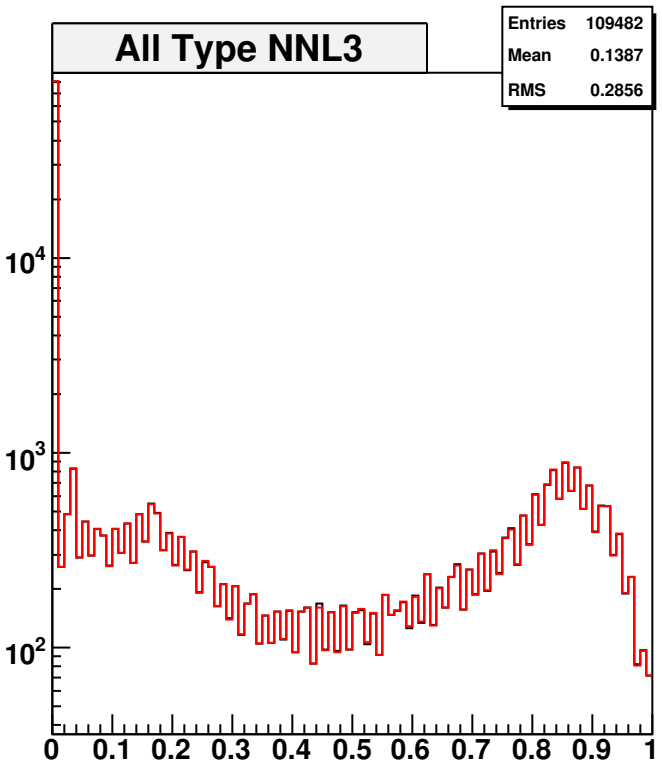


Taus NN (TAU All)

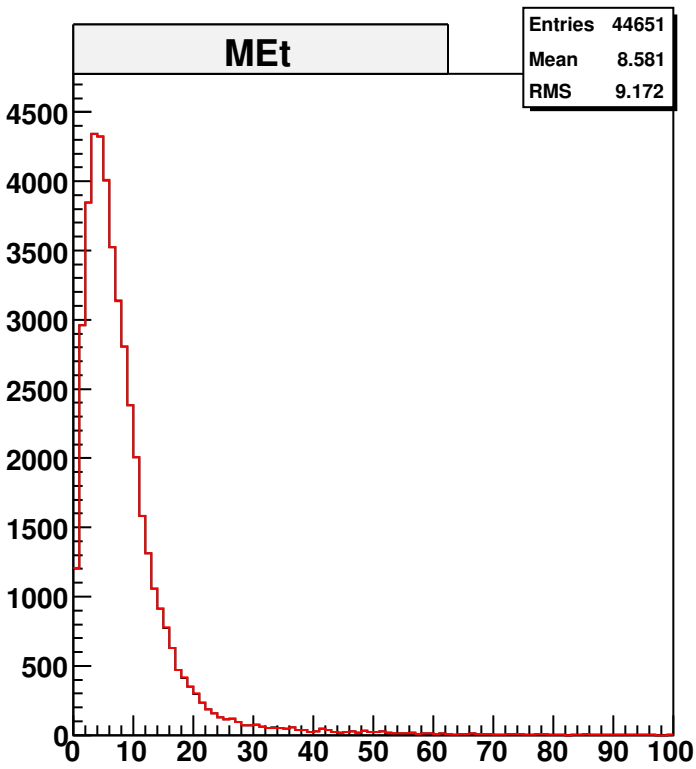


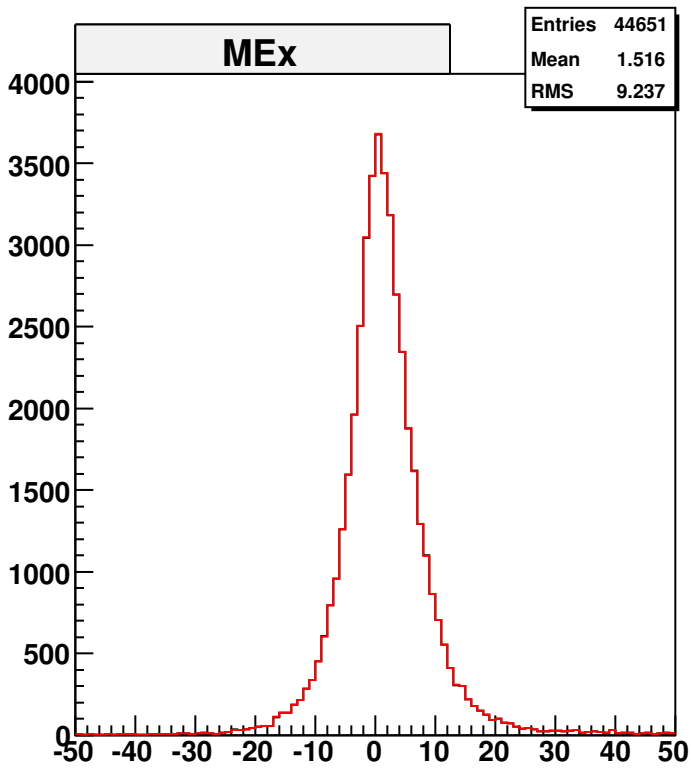






Taus NNL3 (TAU All)


MEt
Entries 44651
Mean 8.581
RMS 9.172
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 10 20 30 40 50 60 70 80 90 100


MEx
Entries 44651
Mean 1.516
RMS 9.237
4000
3500
3000
2500
2000
1500
1000
500
0
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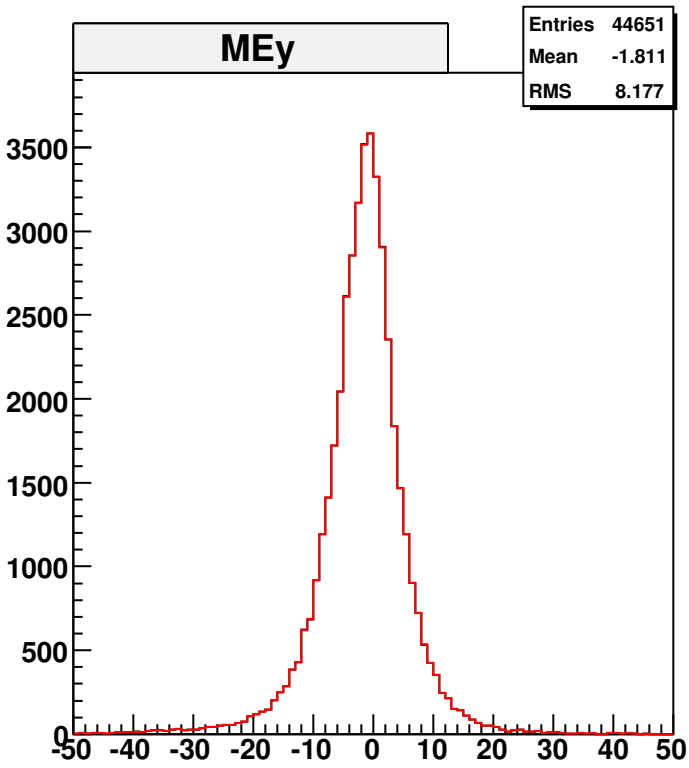
MEy
Entries 44651
Mean -1.811
RMS 8.177
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3000
2500
2000
1500
1000
500
0
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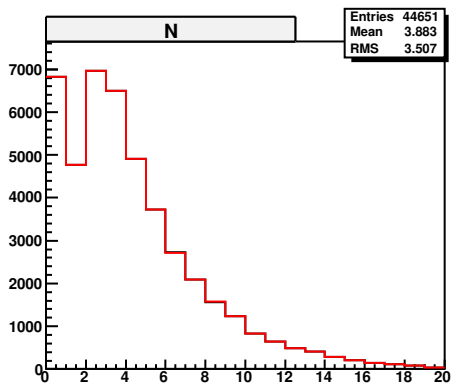
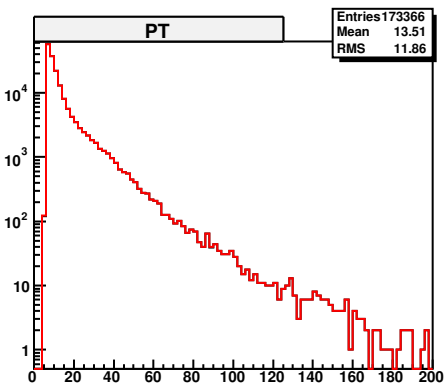
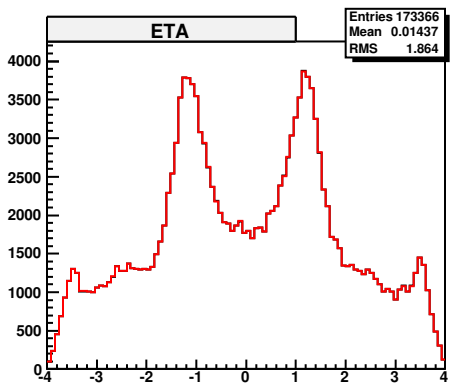
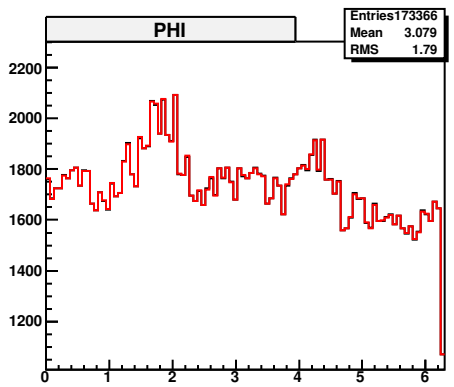
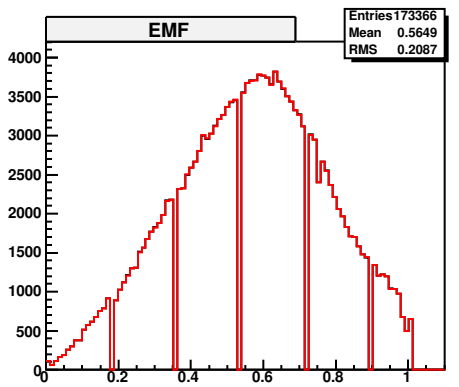
Met (No cuts)

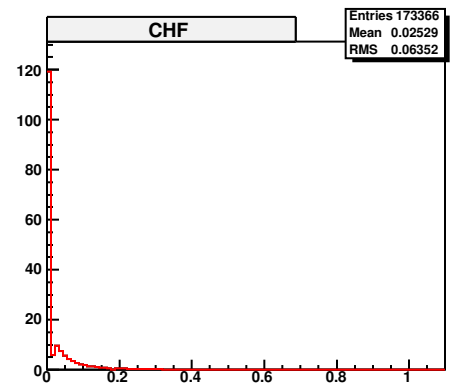


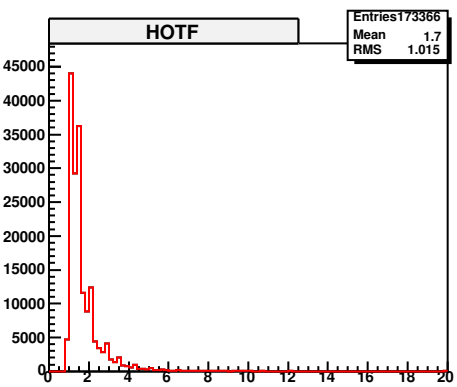


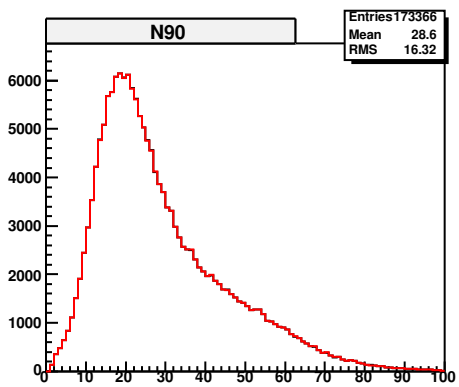


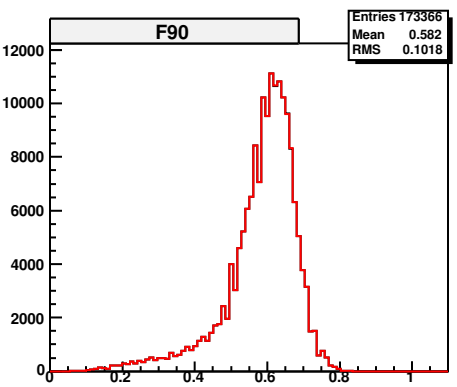


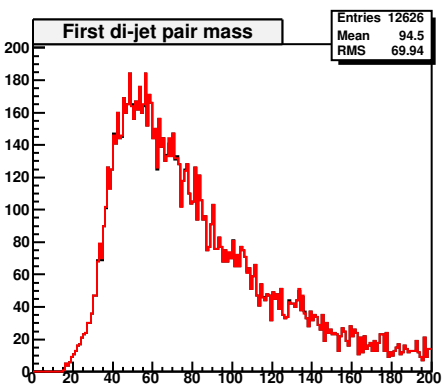


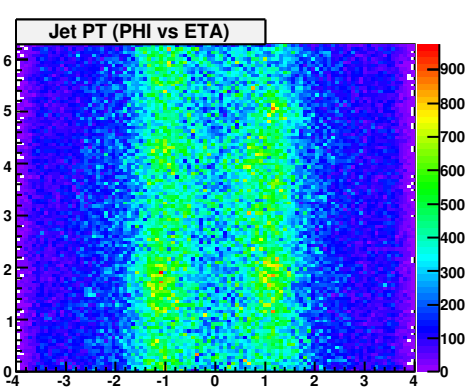




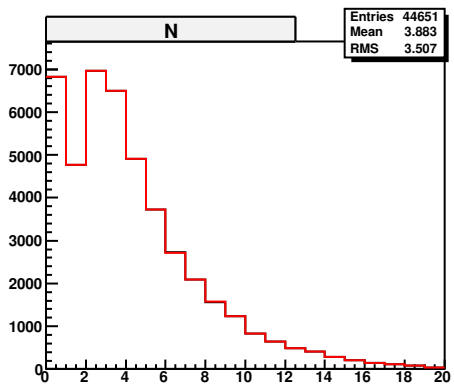


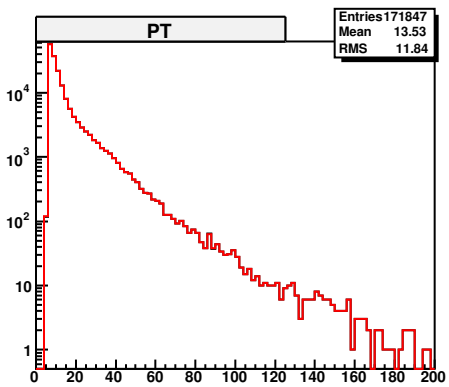


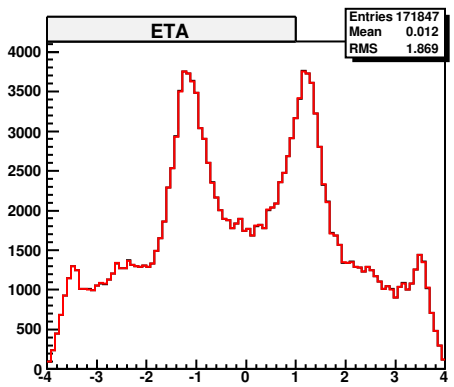


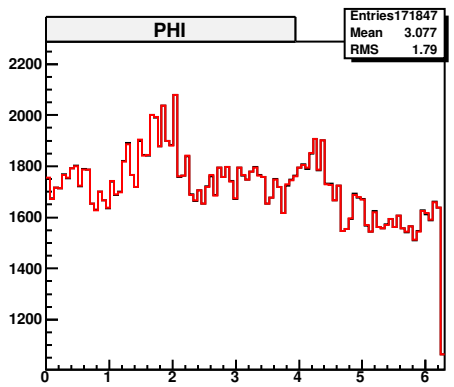


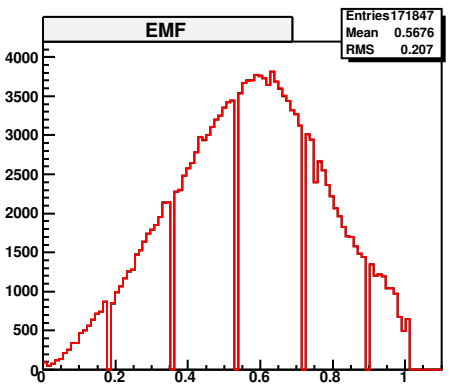
Jets (Cone R 0.7 (no cuts))

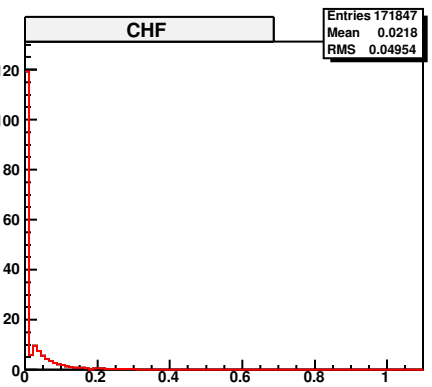


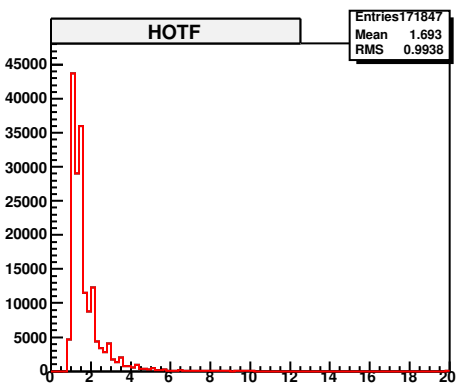


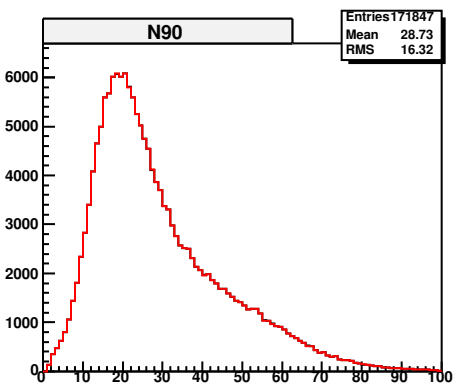


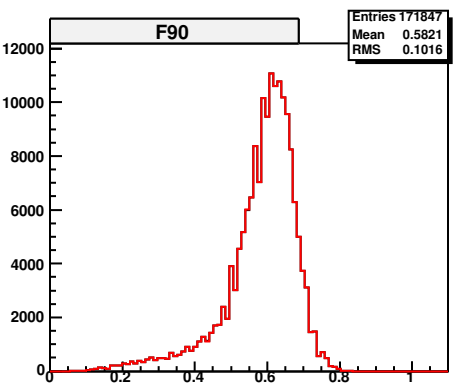


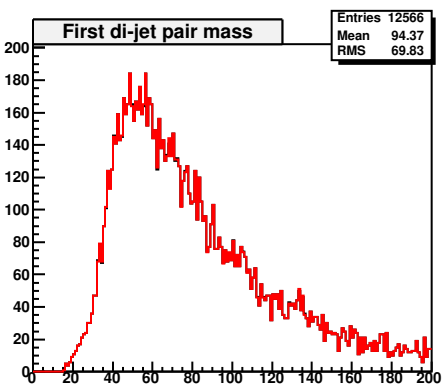


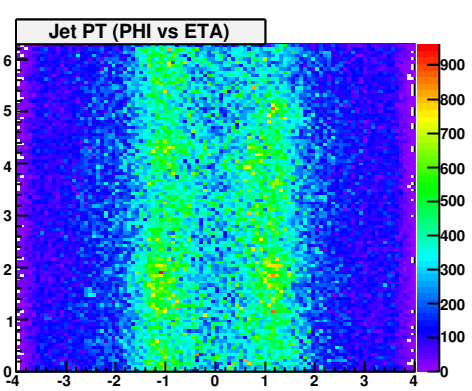




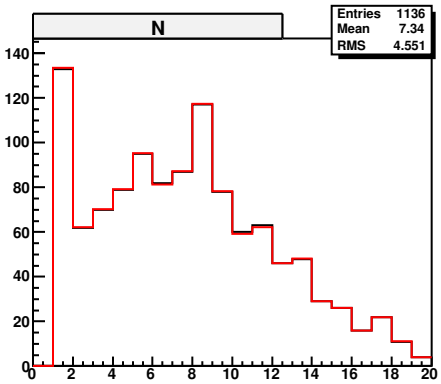


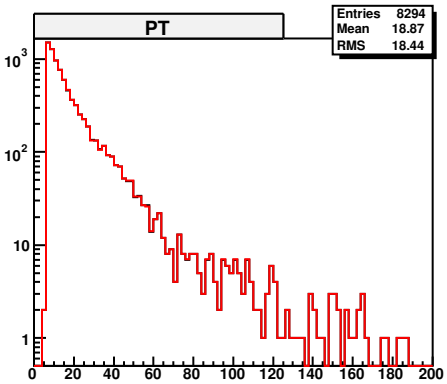


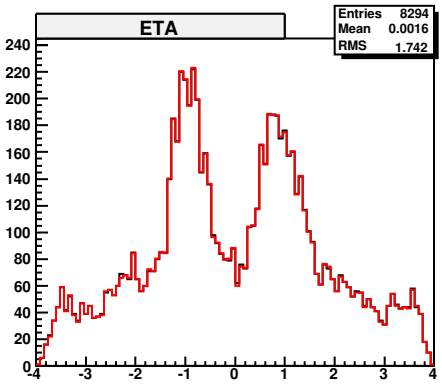


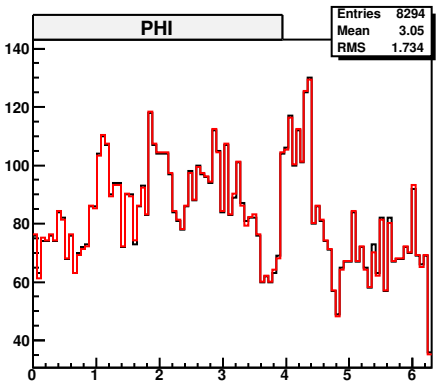


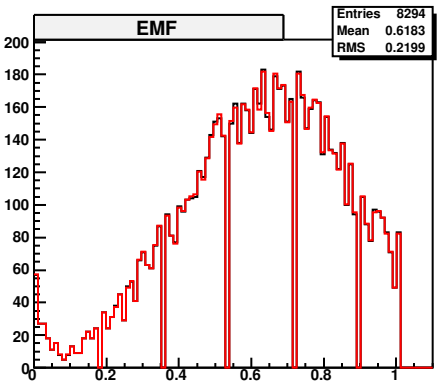
Jets (Cone R 0.7 (standard cuts))

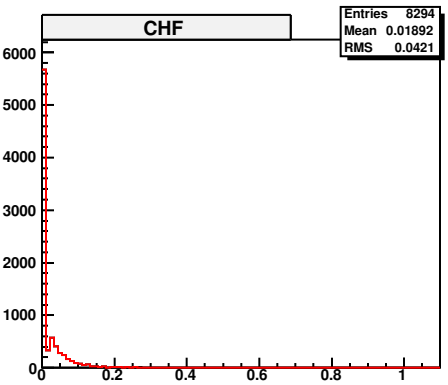


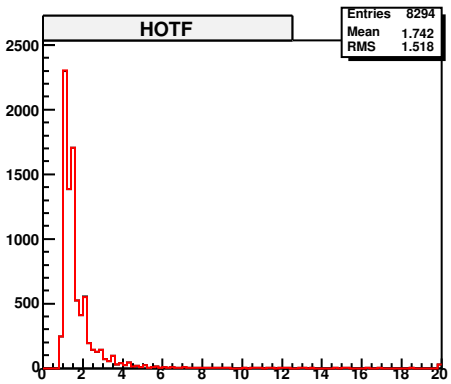


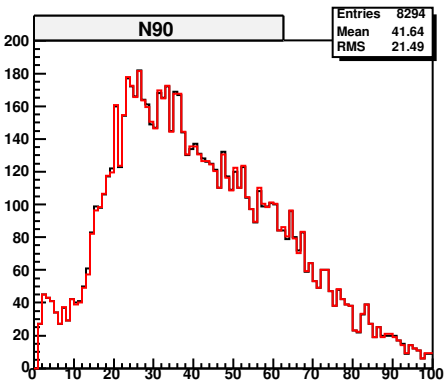


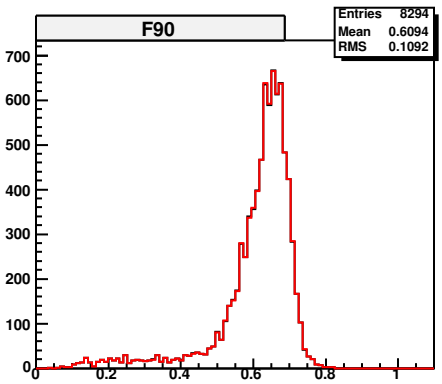


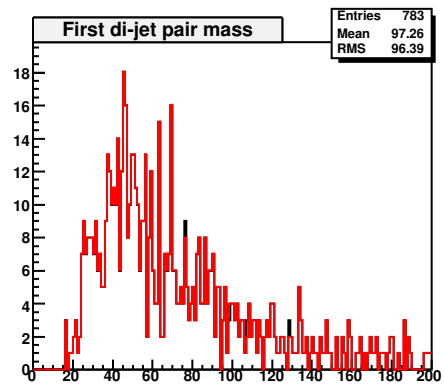


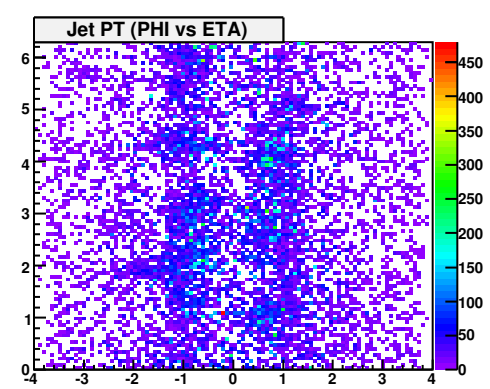




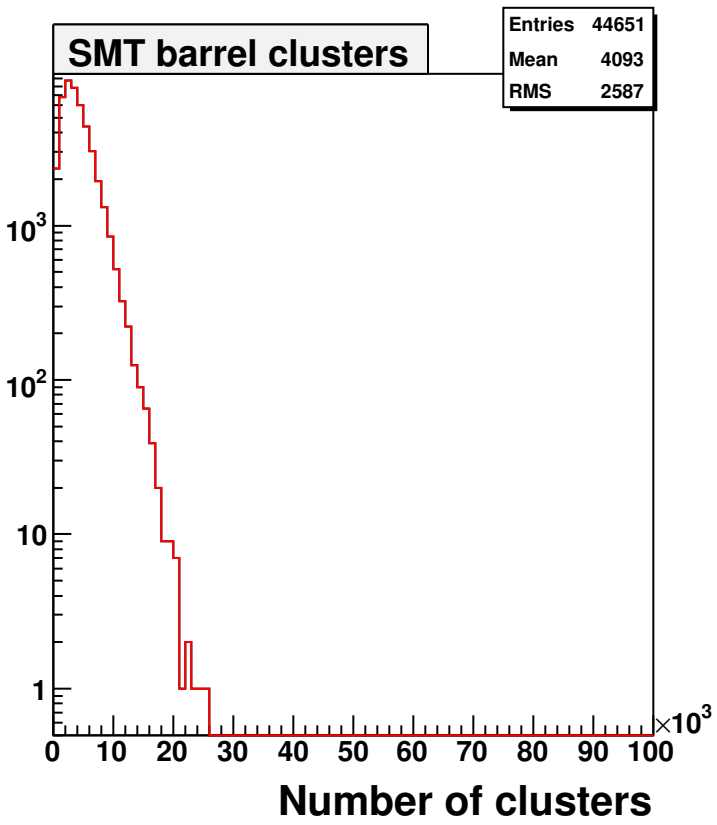


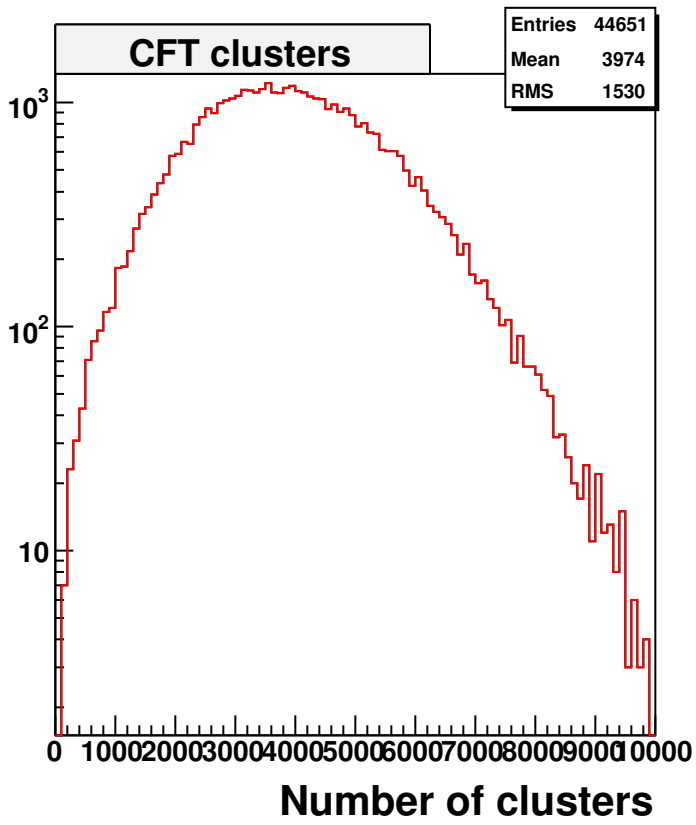


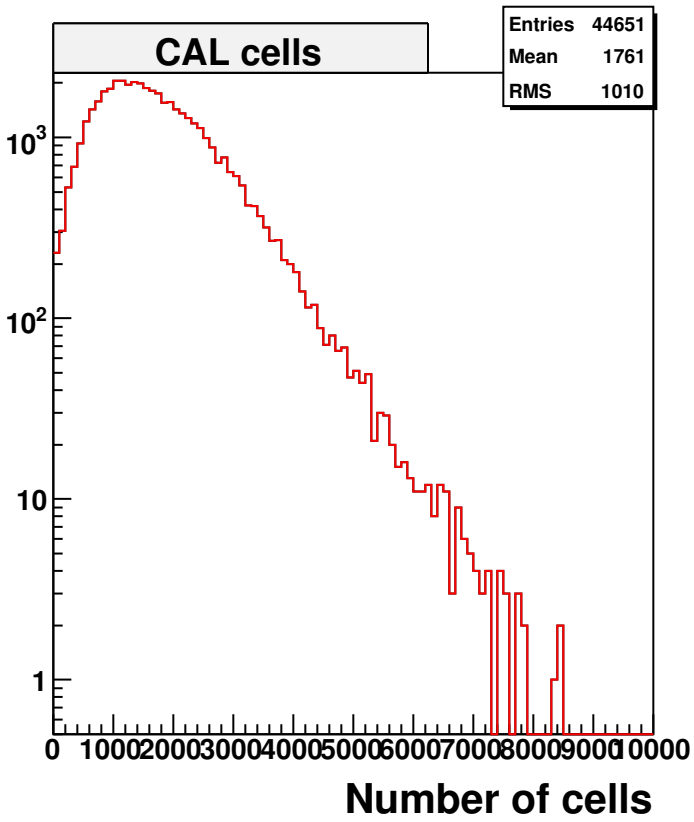


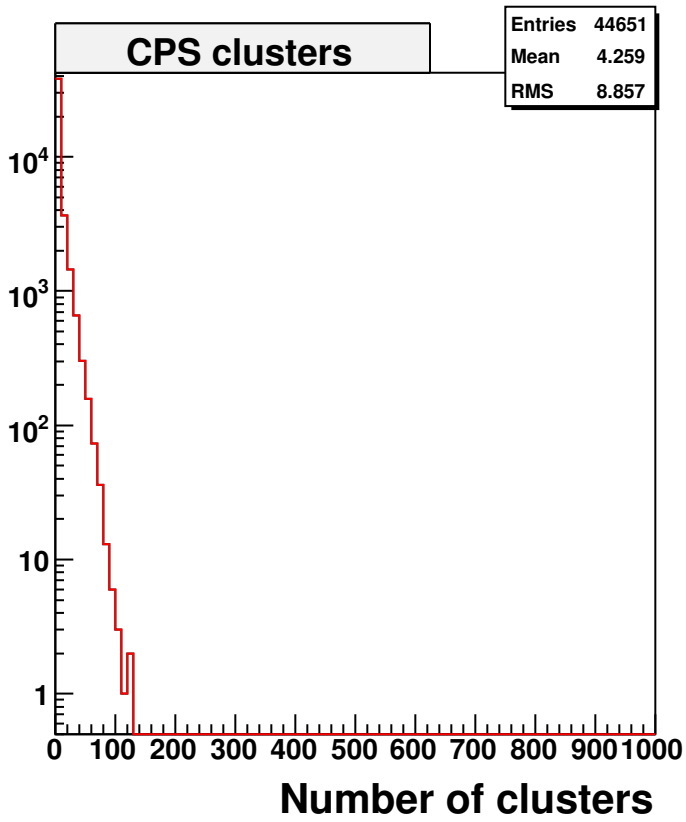


Jets (Cone R 0.7 (standard cuts, MET>30))

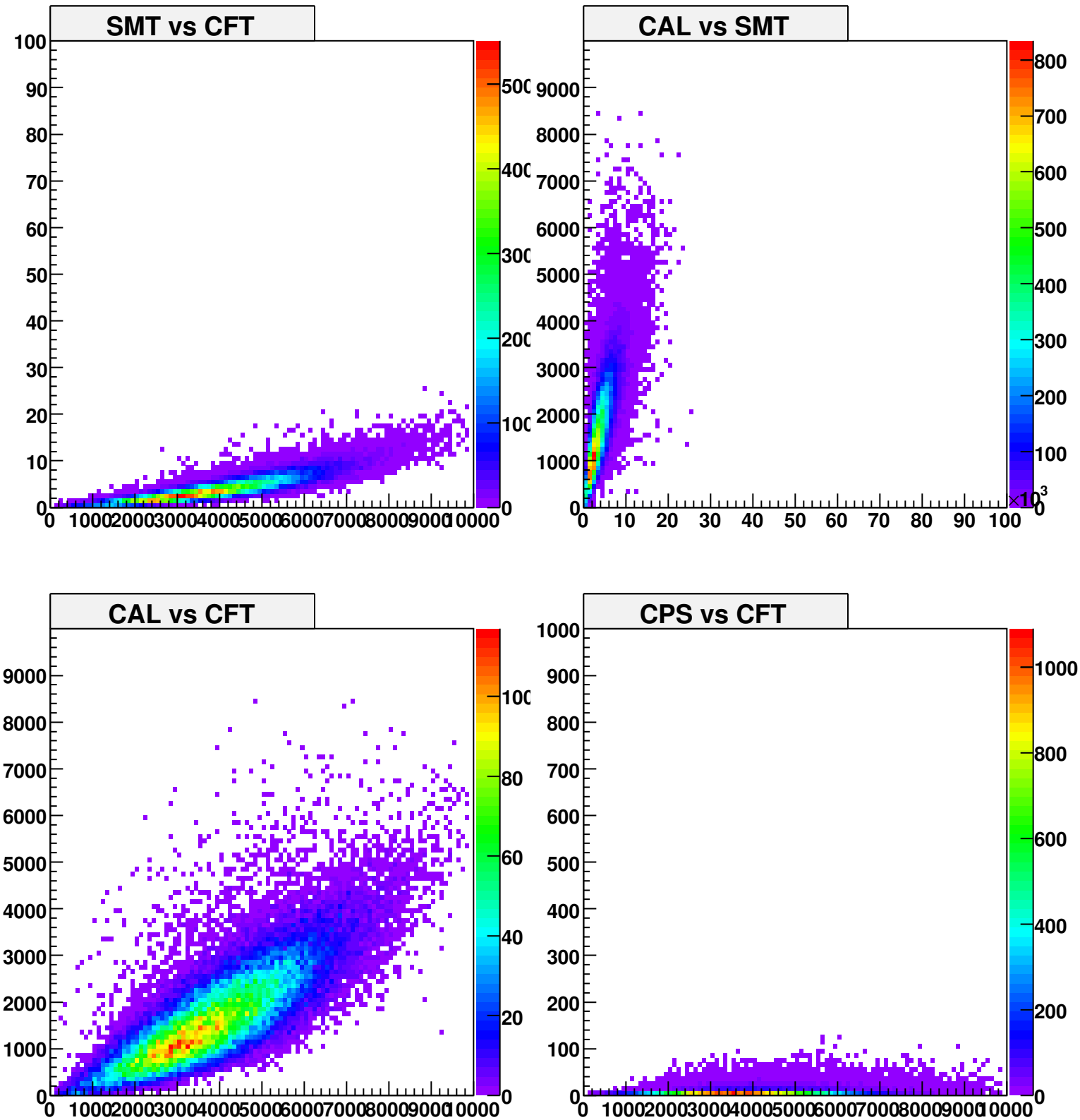


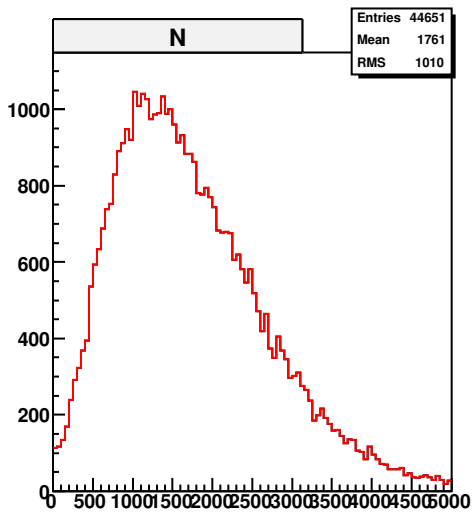


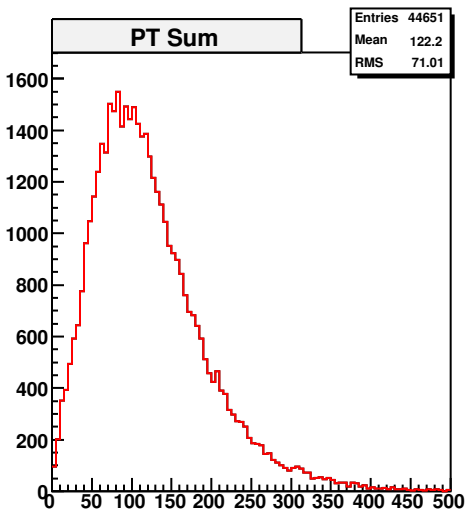


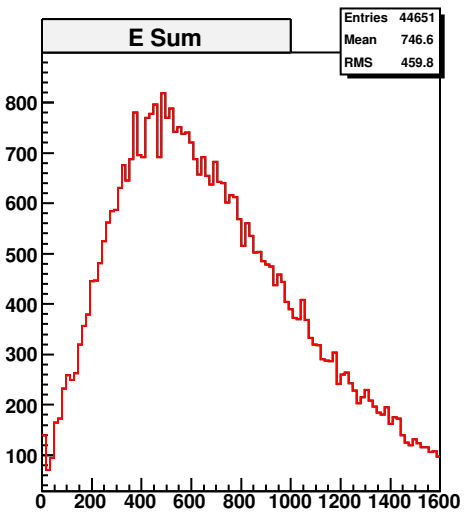


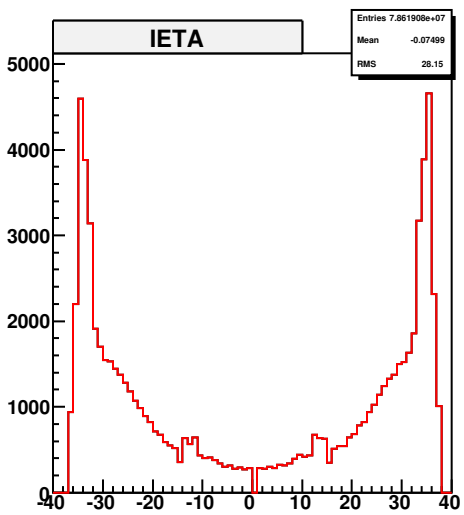
Detector Occupancy (Detector)

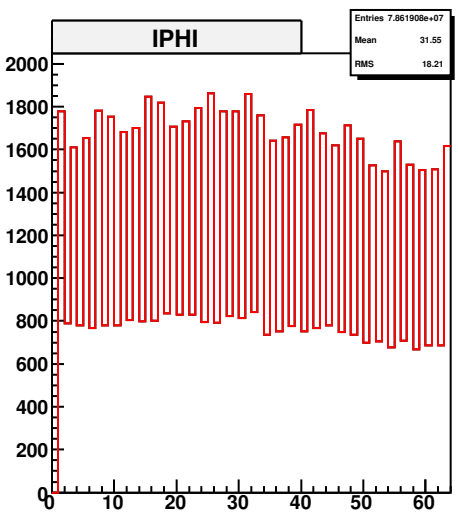

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

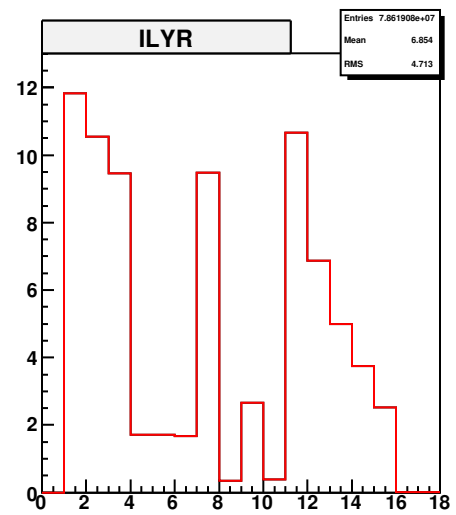


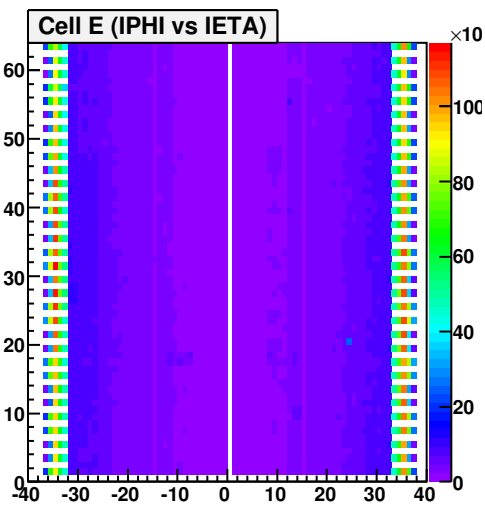


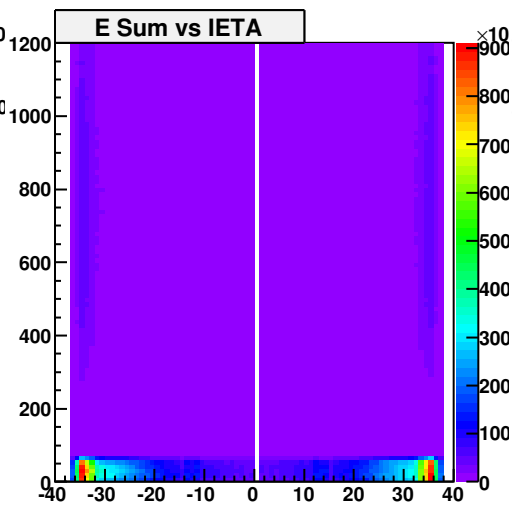


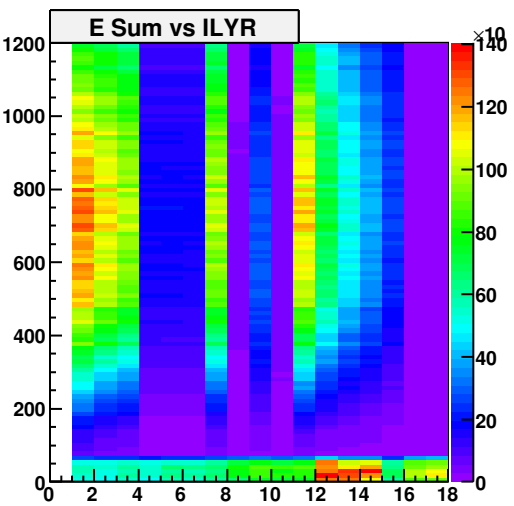




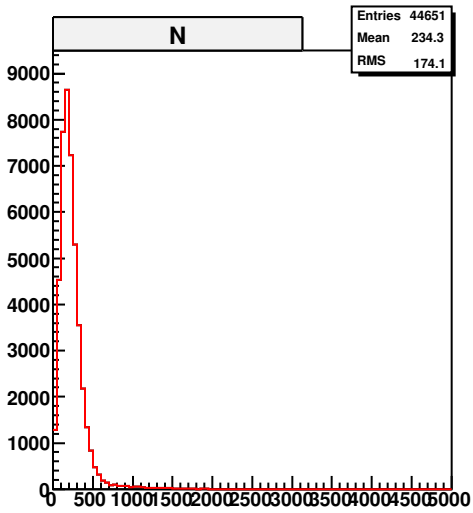


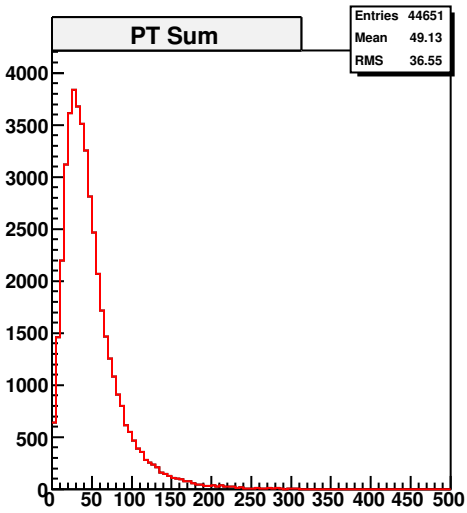


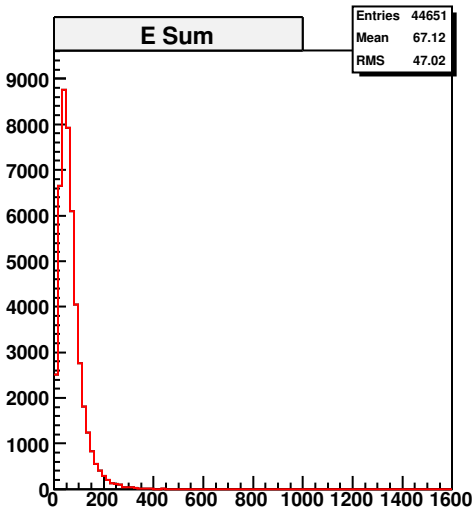


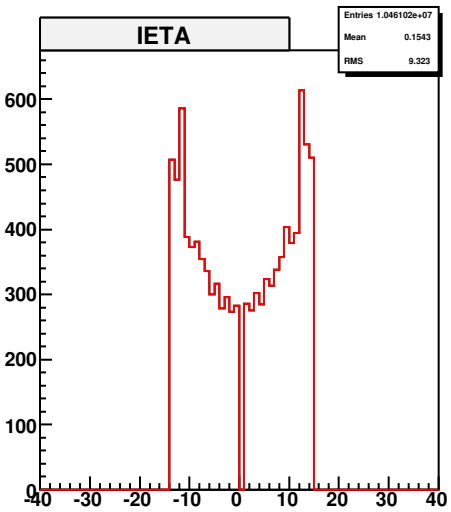


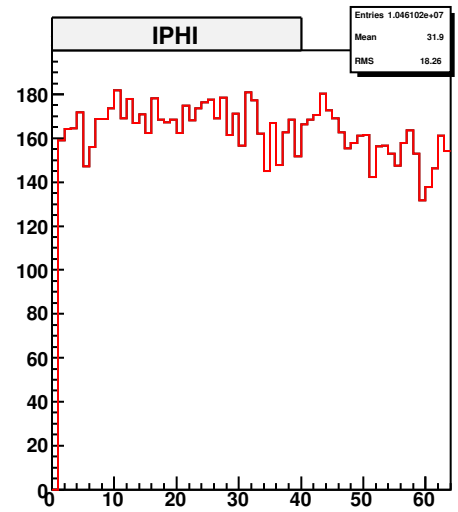
Calorimeter (All cells)

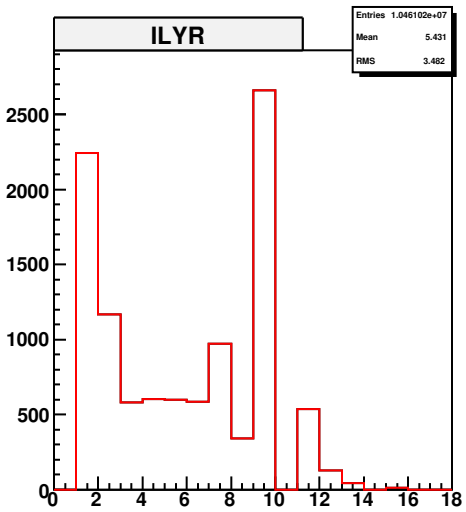


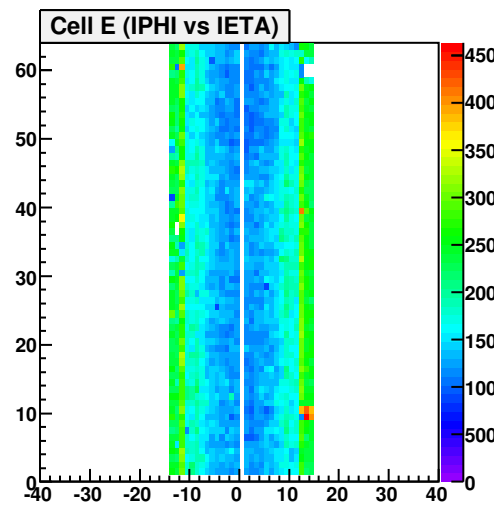


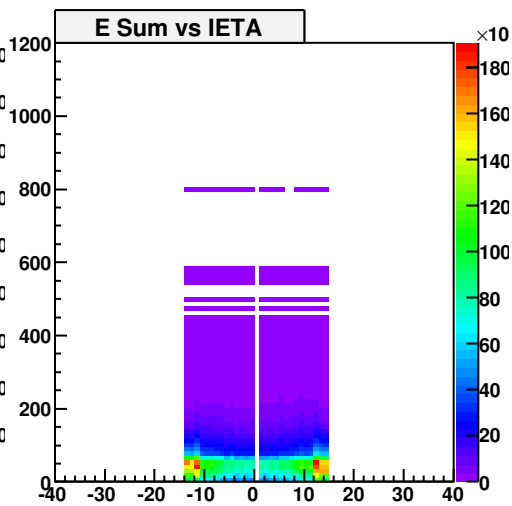


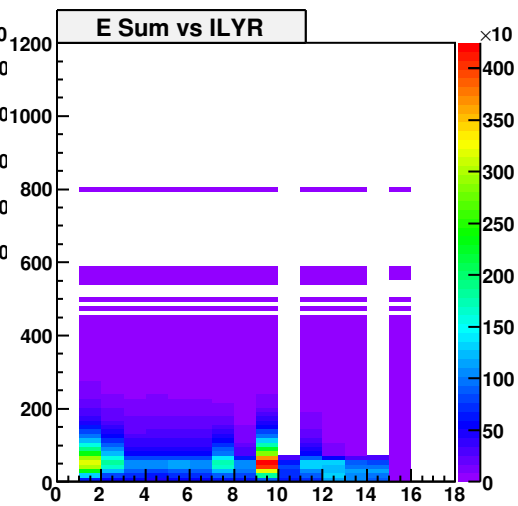




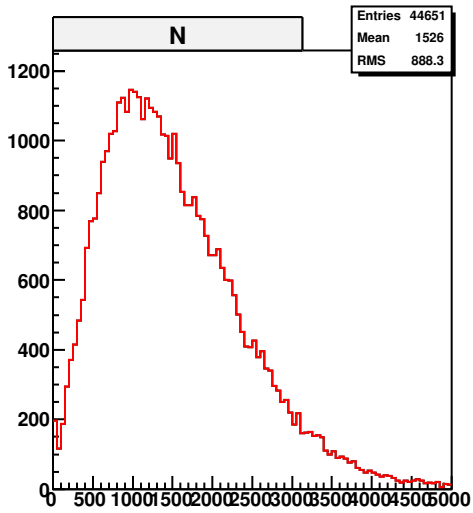


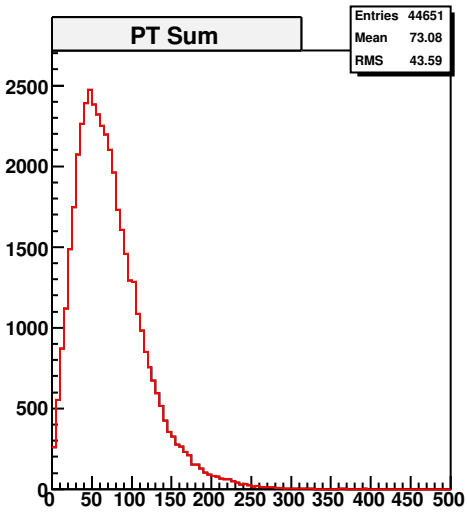


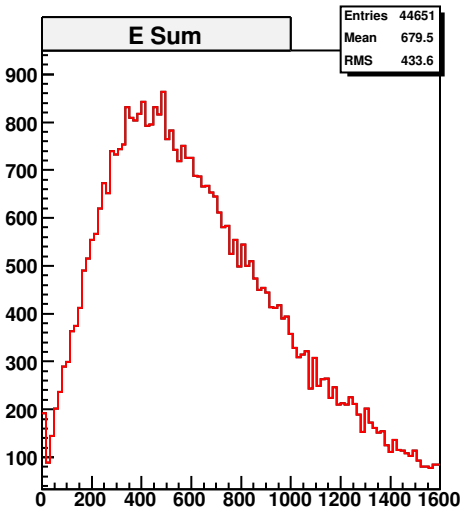


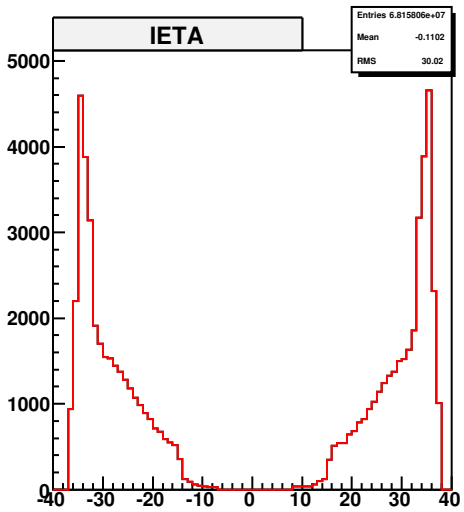


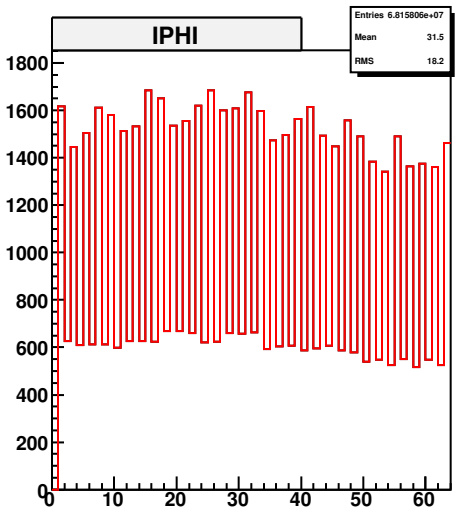
Calorimeter (All CC cells)

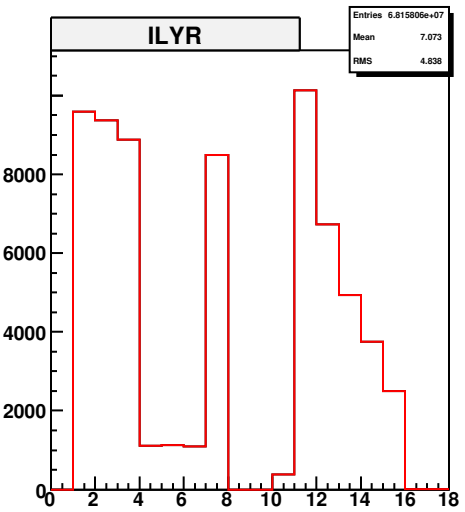


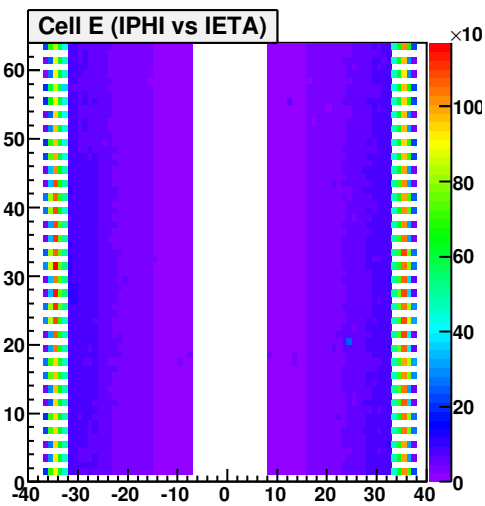


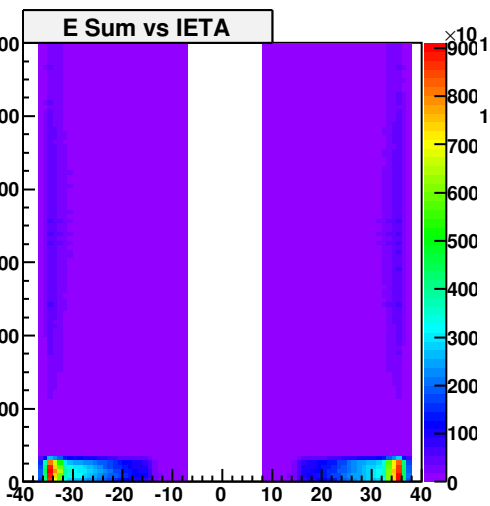


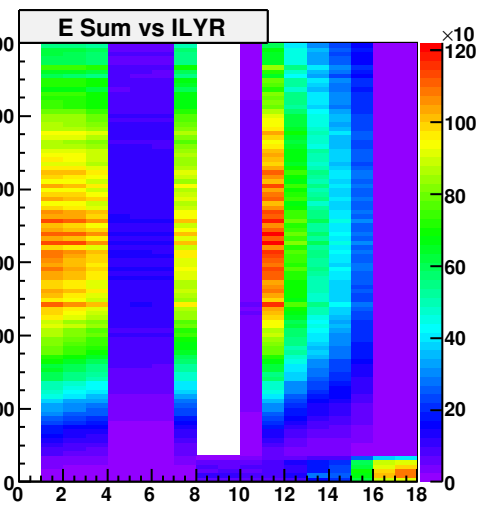




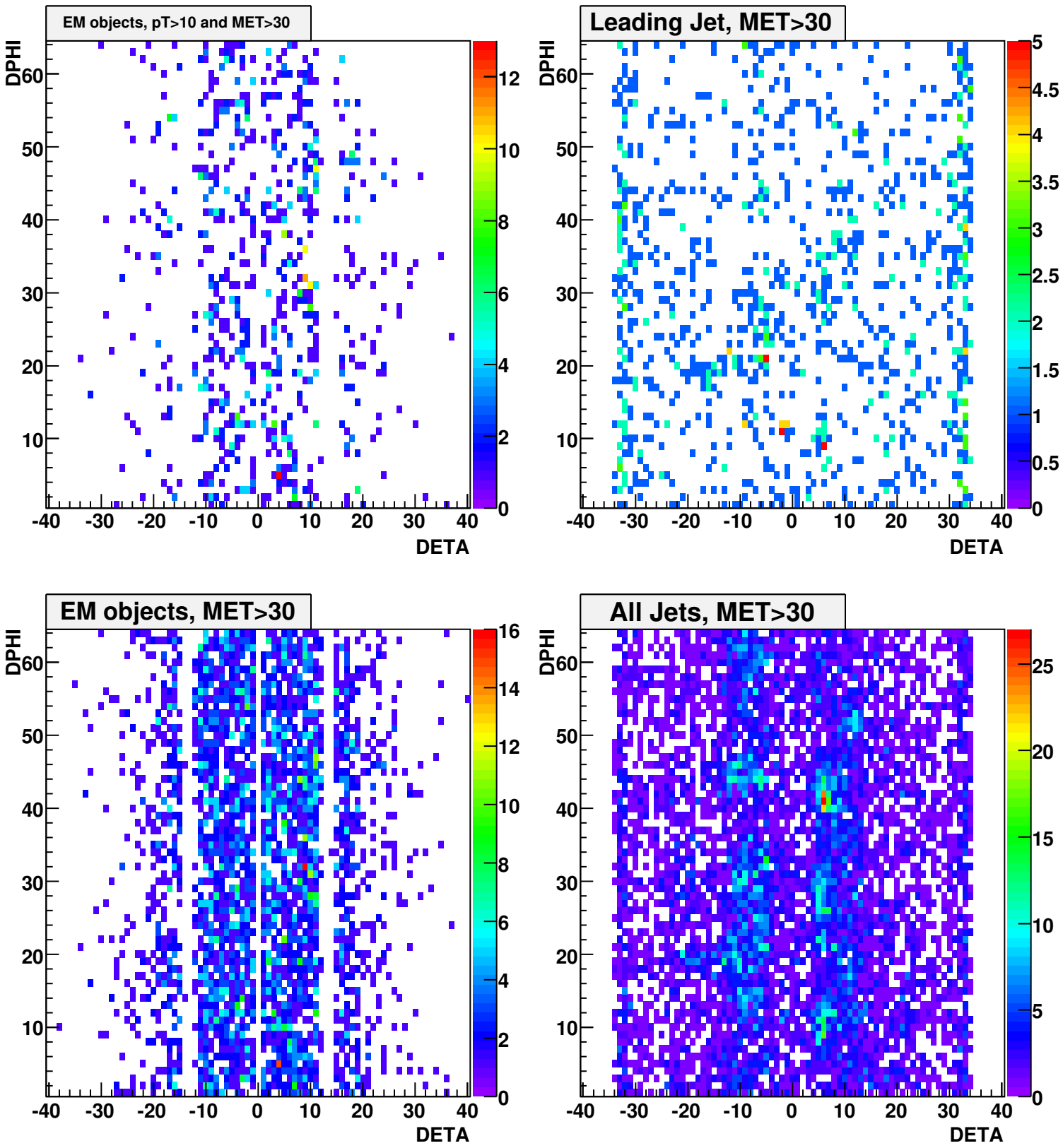




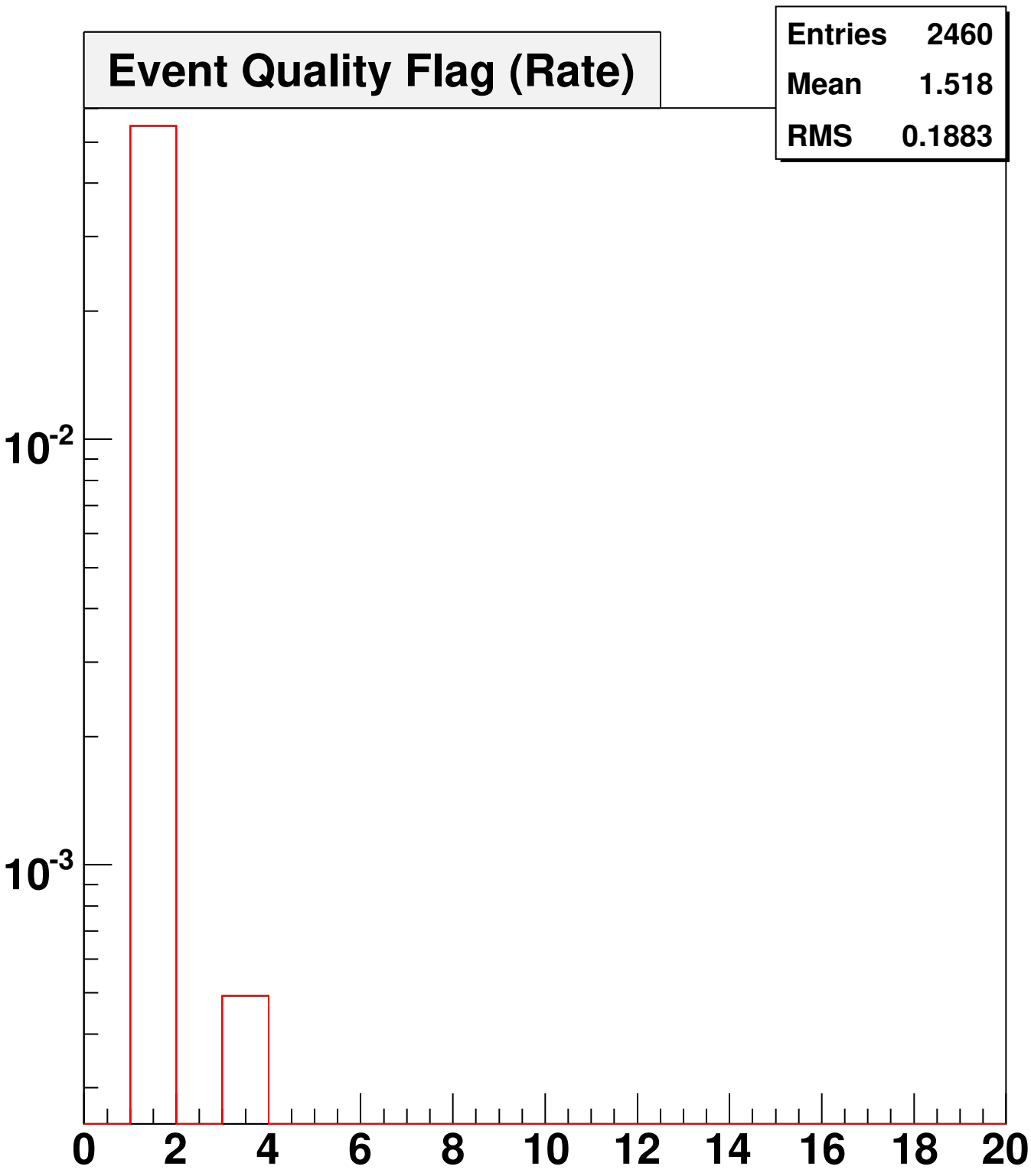


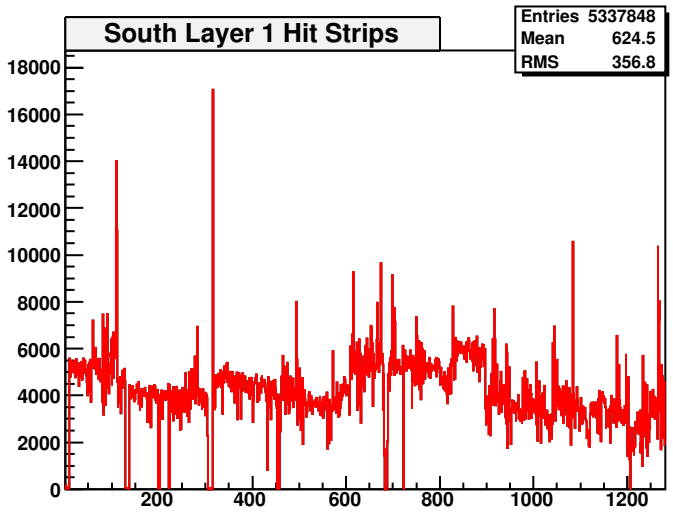


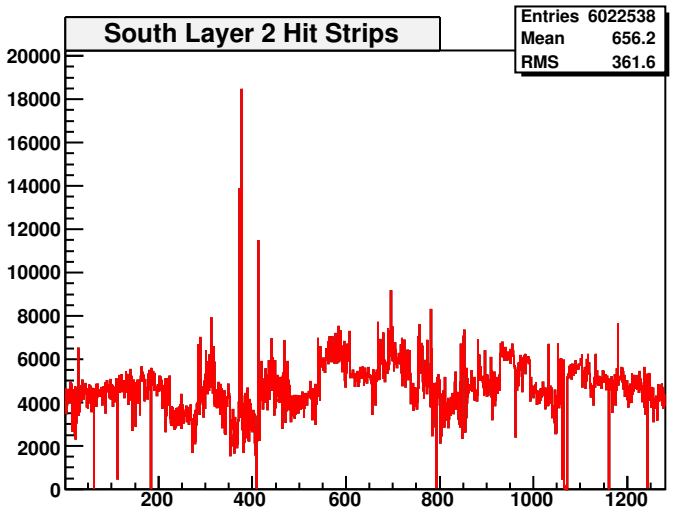
Calorimeter (All EC cells)

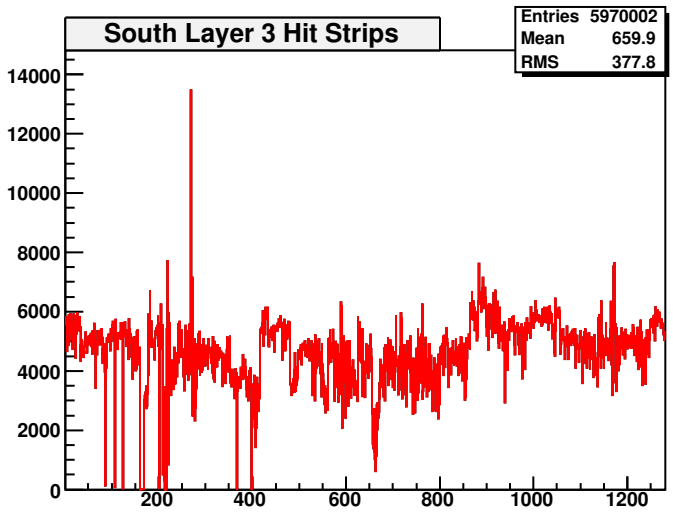


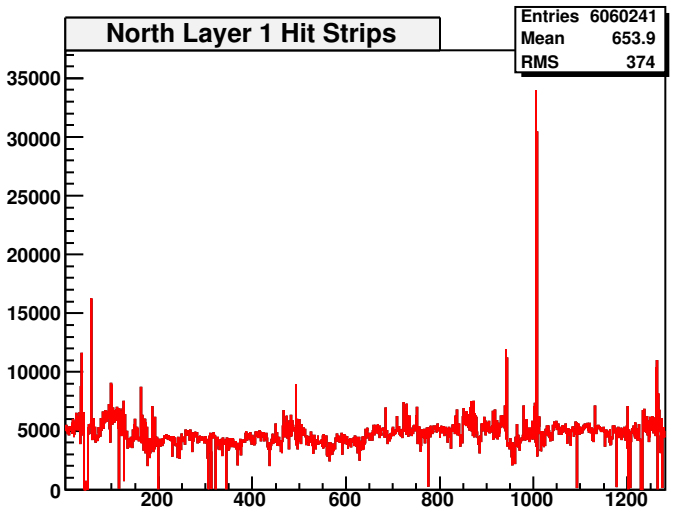
Cal Objects with MET>30 (All cells)

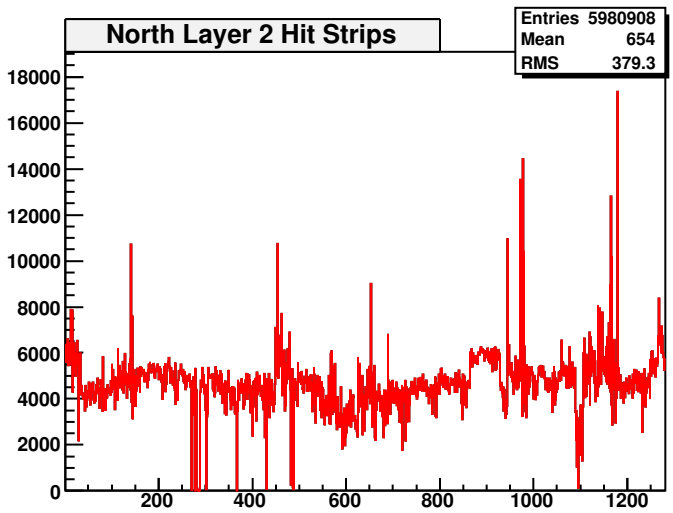

Event Quality Flag (Rate)
Entries 2460
Mean 1.518
RMS 0.1883
10-2
10-3
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

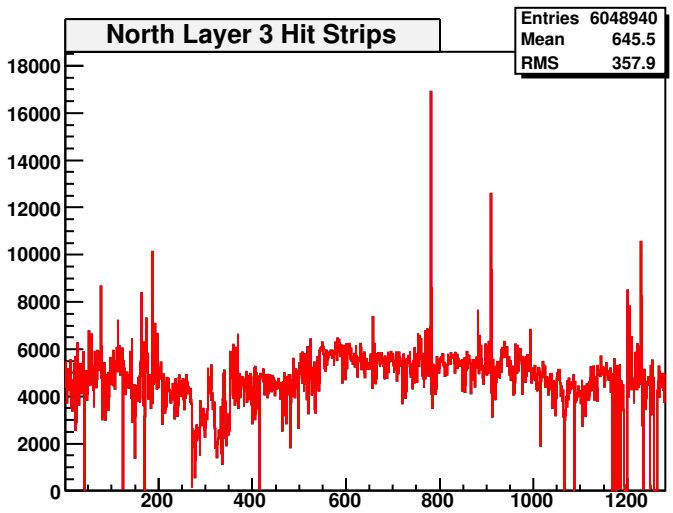




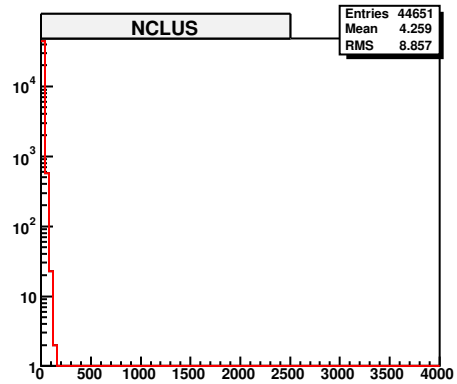


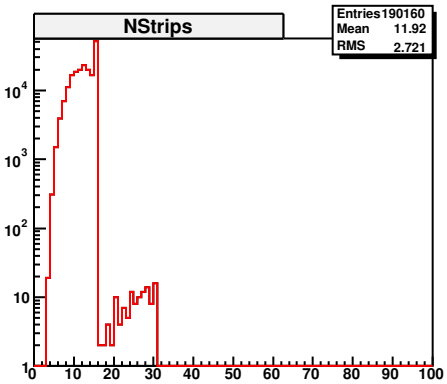


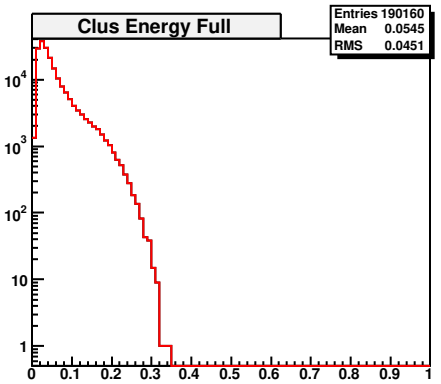


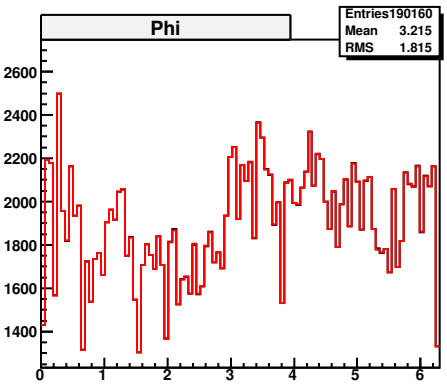


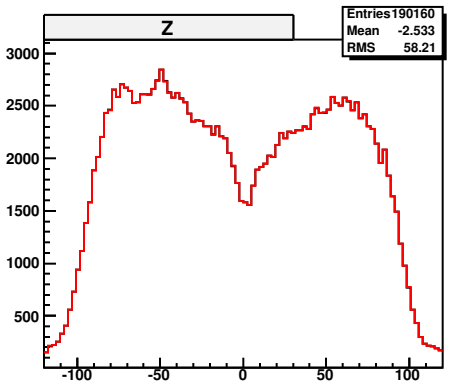
CPS Hit Strips (All Clusters)

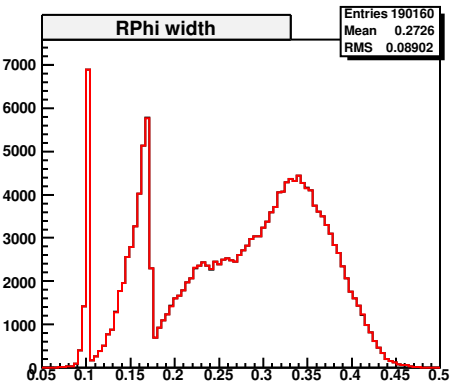


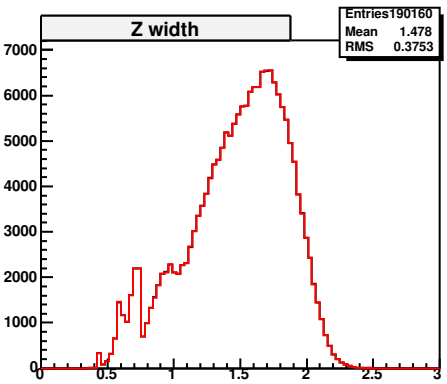


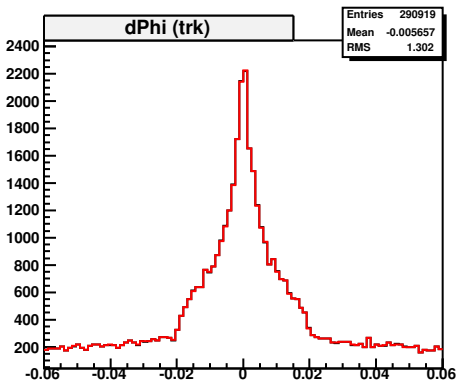


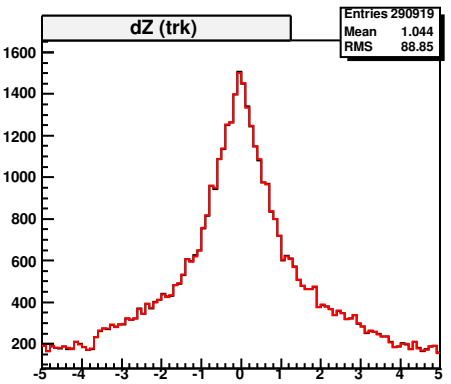


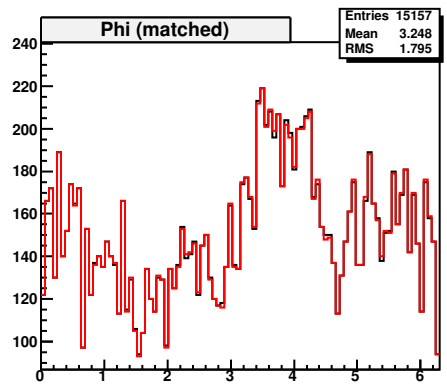


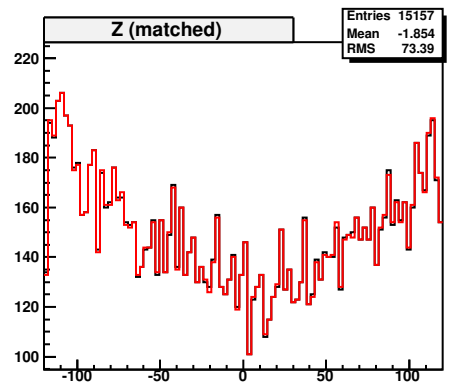




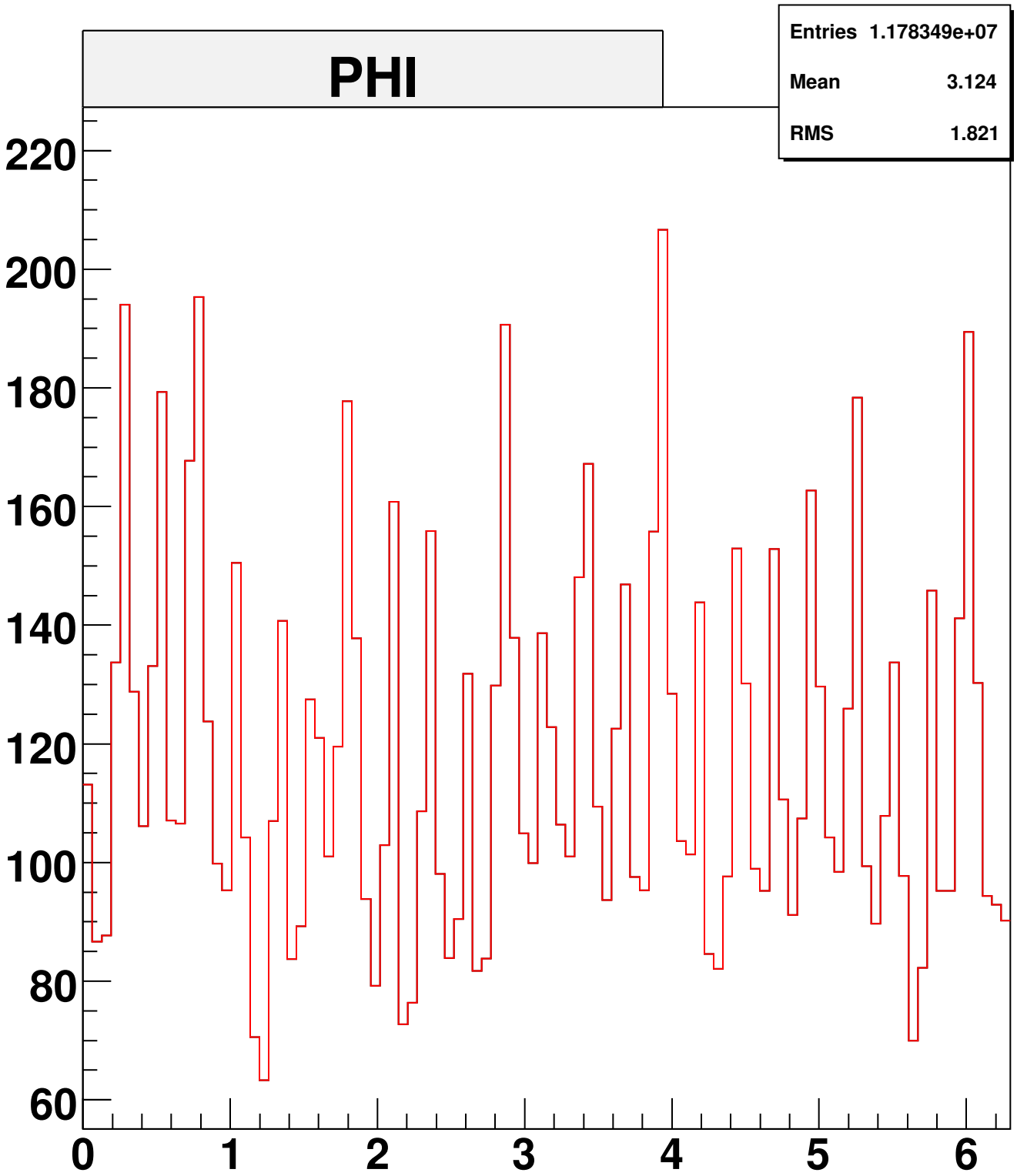


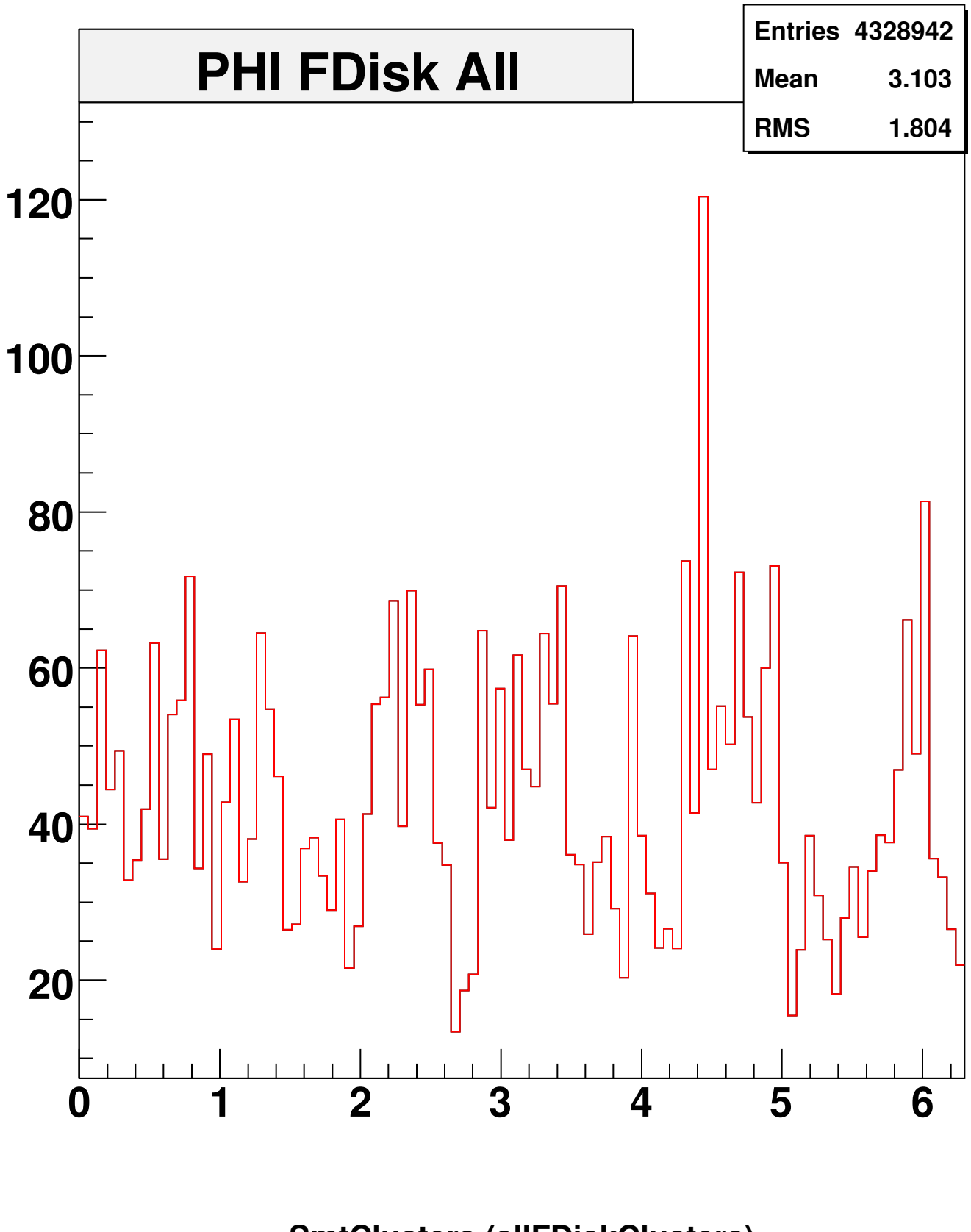


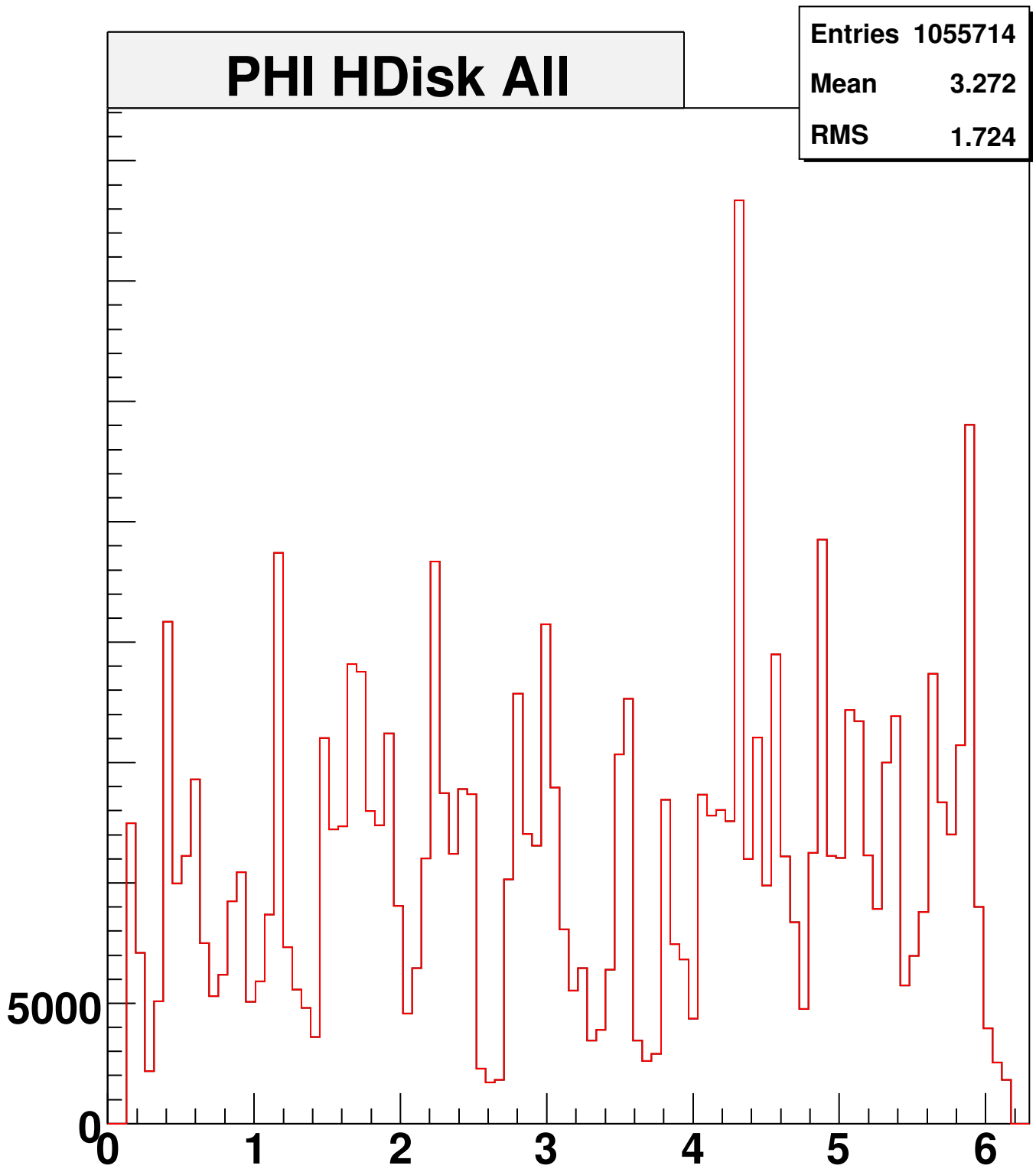


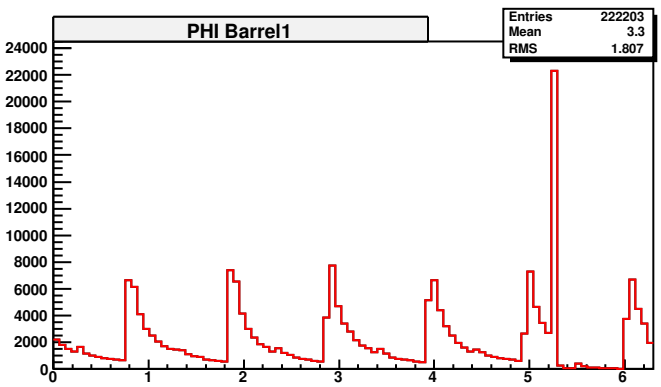


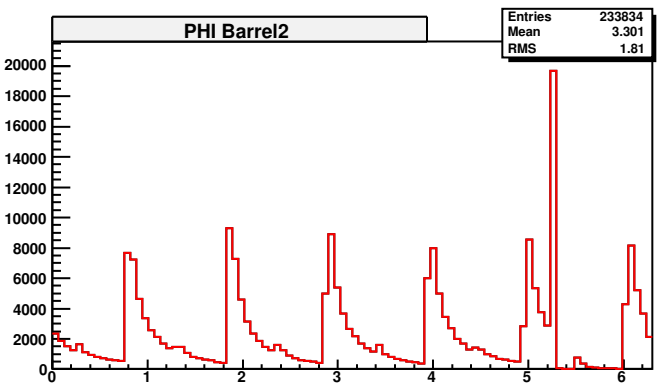
CPS Clusters (All Clusters)

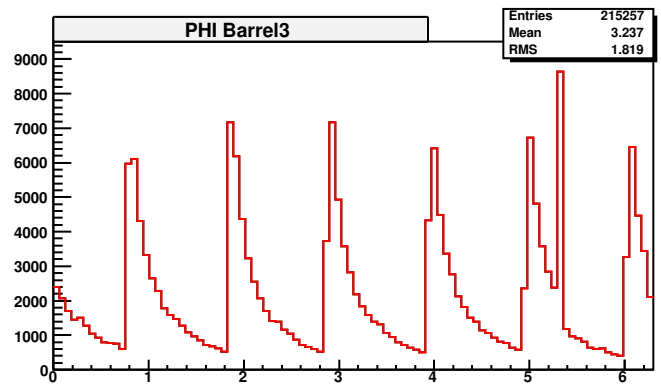

PHI
Entries 1.178349e+07
Mean 3.124
RMS 1.821
220
200
180
160
140
120
100
80
60
0
1
2
3
4
5
6
SmtClusters (allBarClusters)

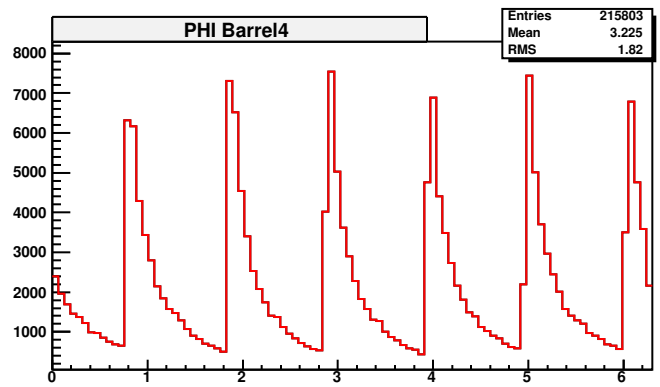

PHI FDisk All
Entries 4328942
Mean 3.103
RMS 1.804
120
100
80
60
40
20
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)

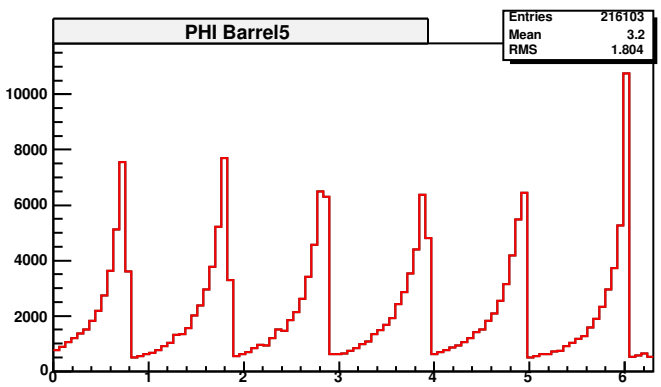

PHI HDisk All
Entries 1055714
Mean 3.272
RMS 1.724
5000
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

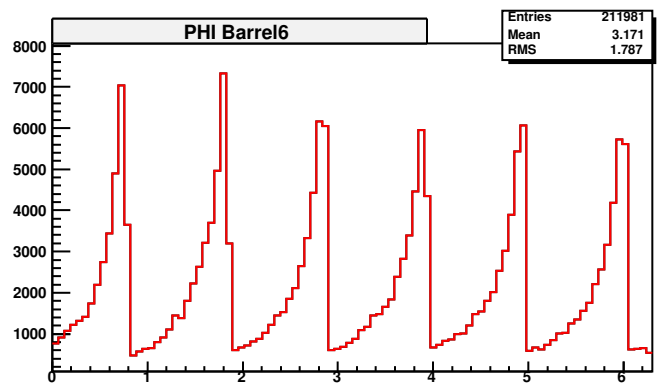


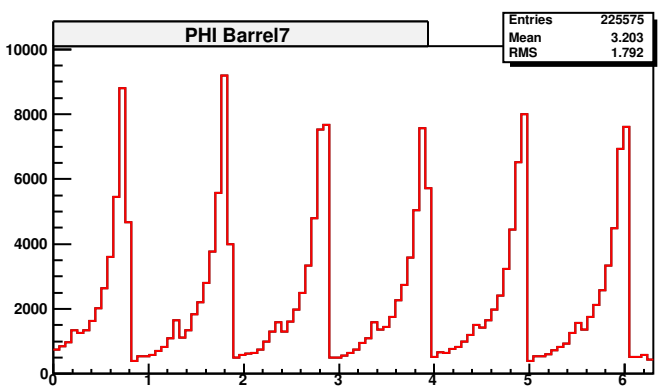


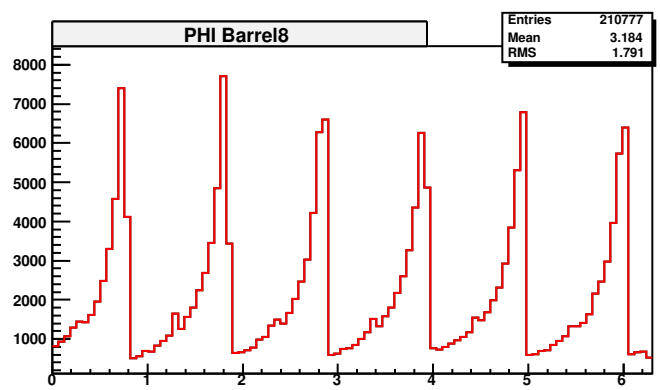




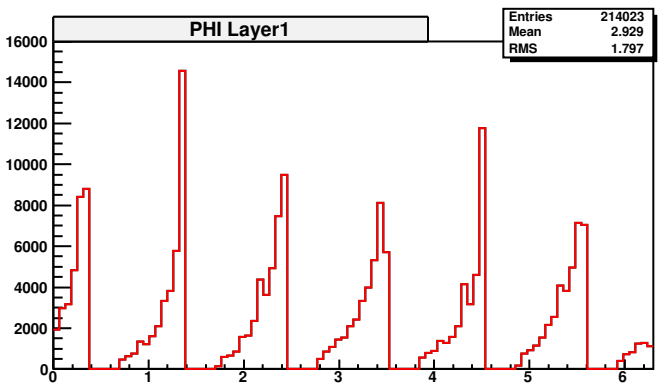


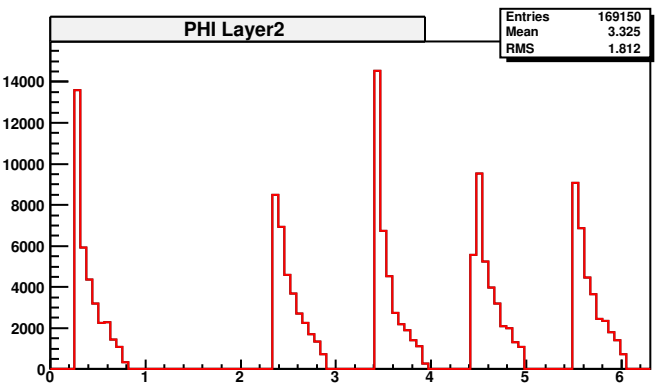


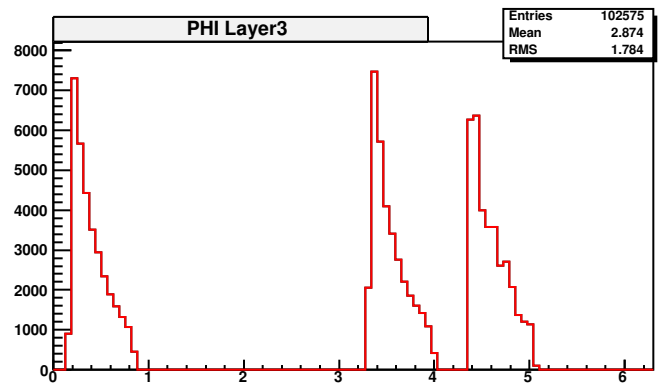


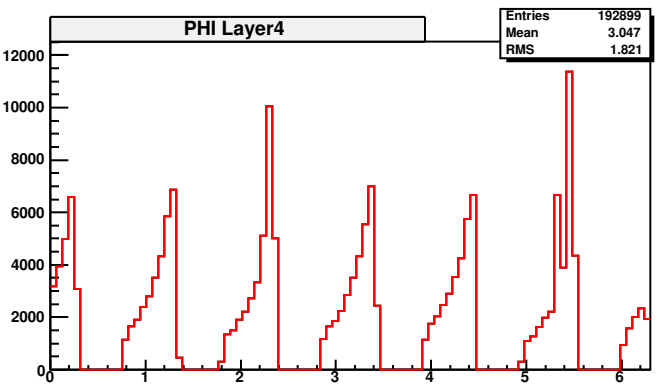


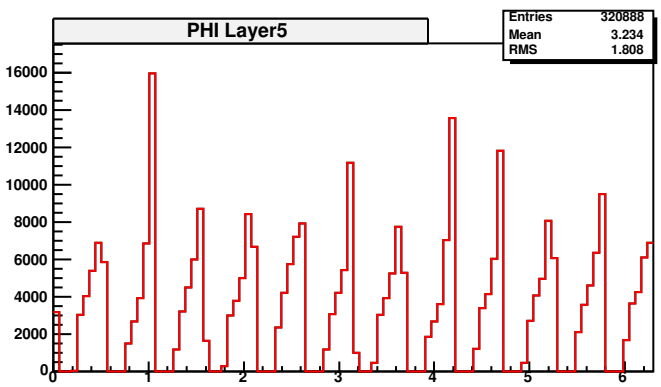
SmtClusters (ClustrLayer0)

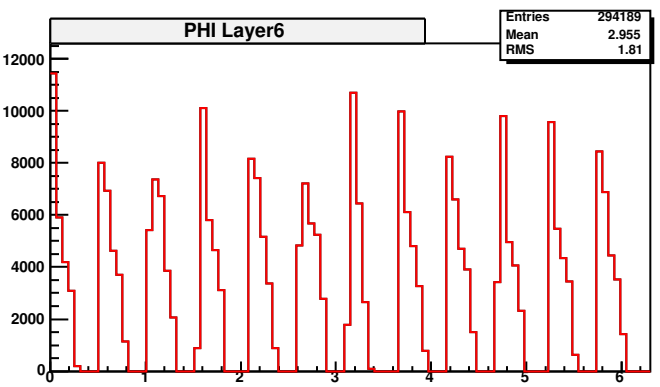


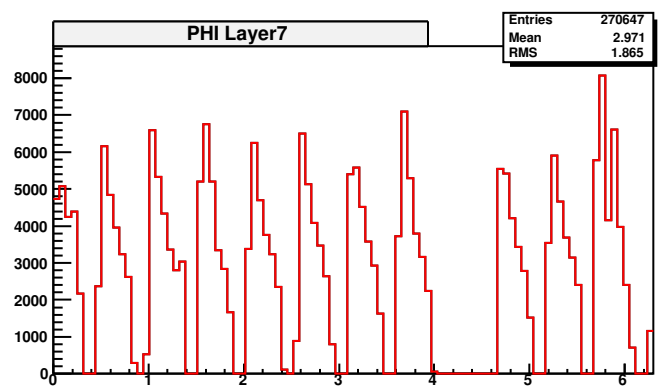


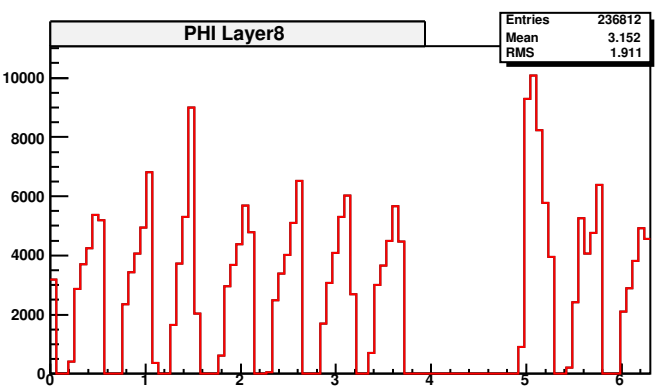




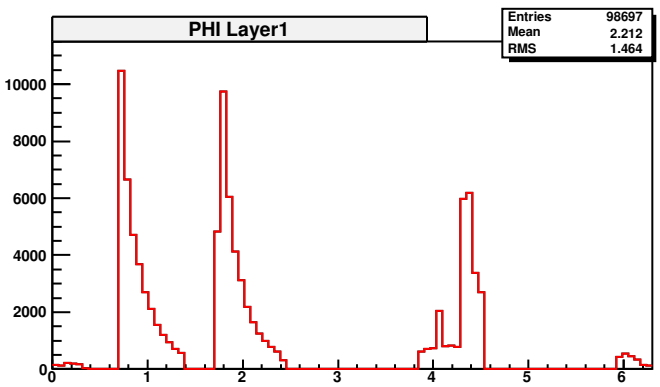


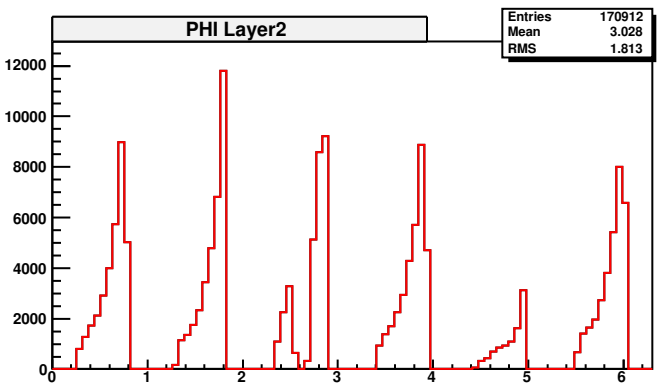


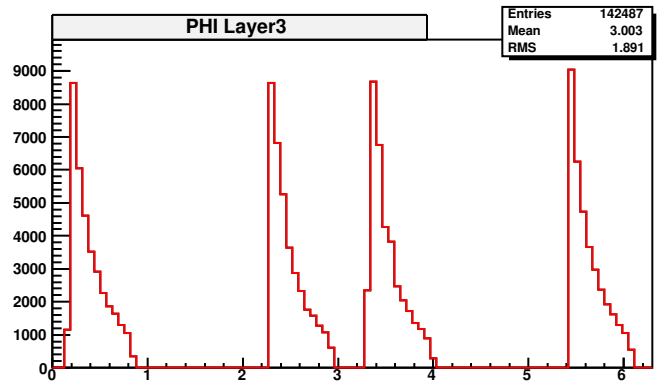


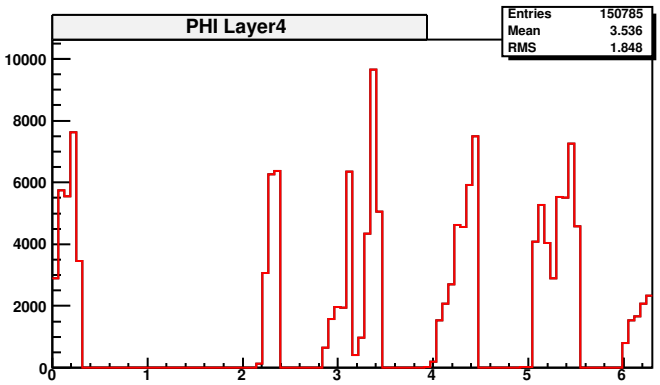


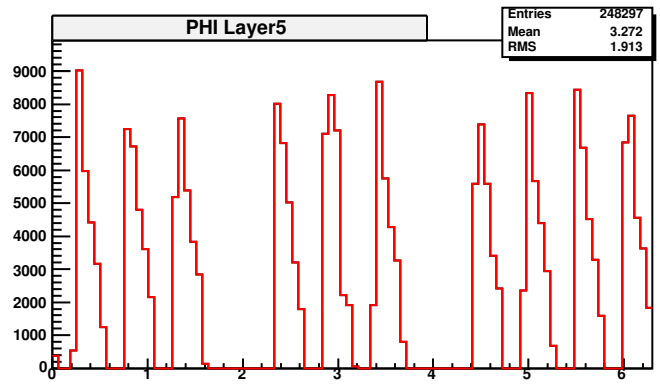
SmtClusters (ClustrBar1)

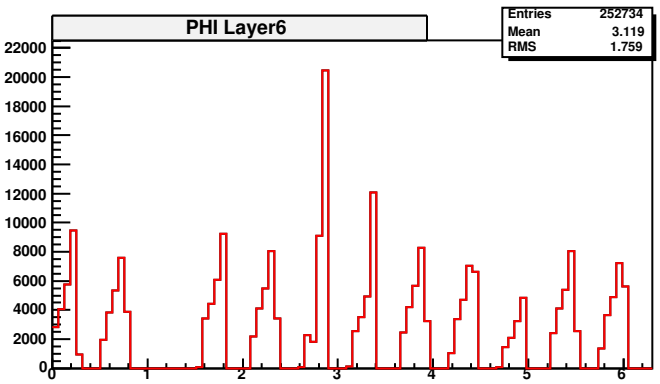


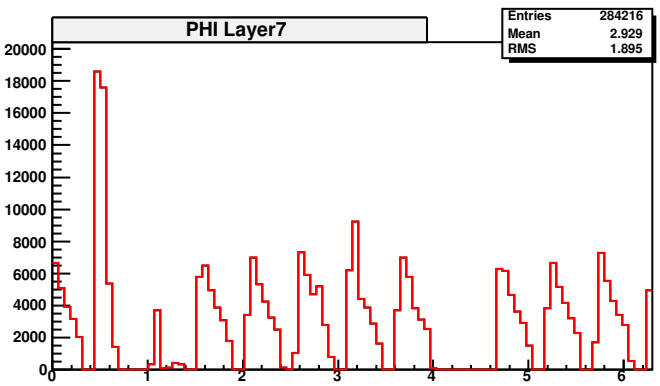


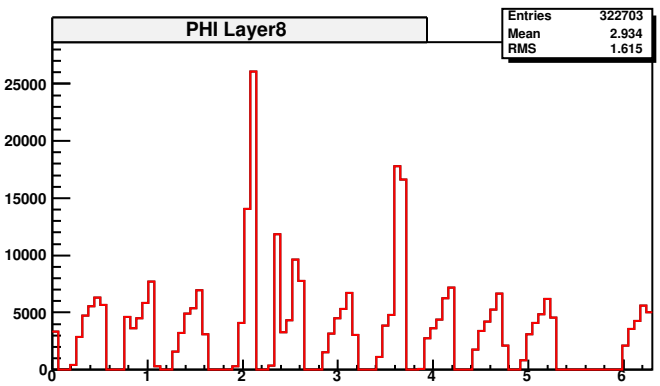




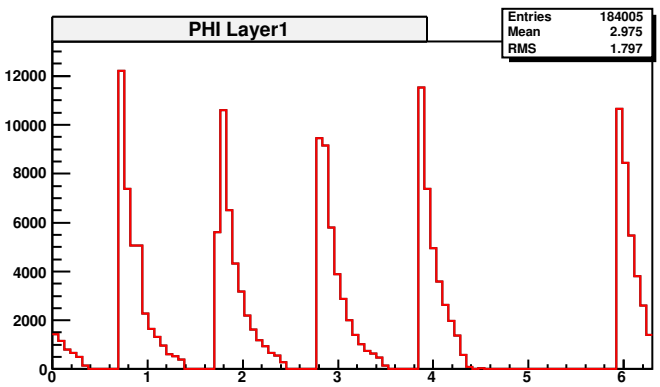


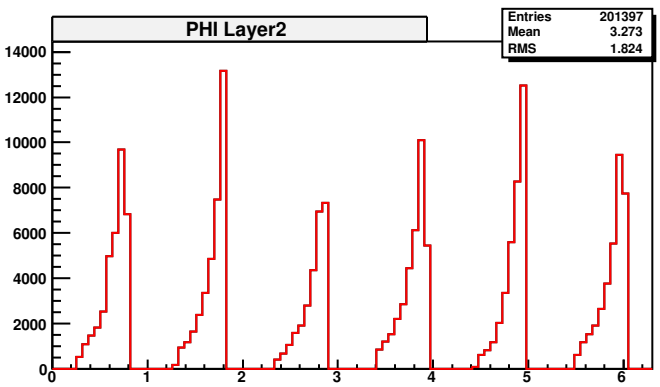


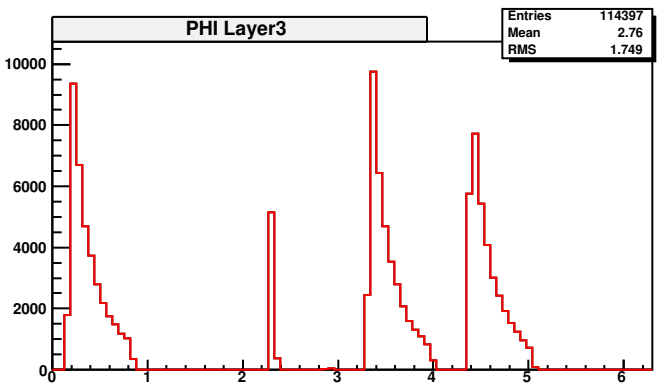


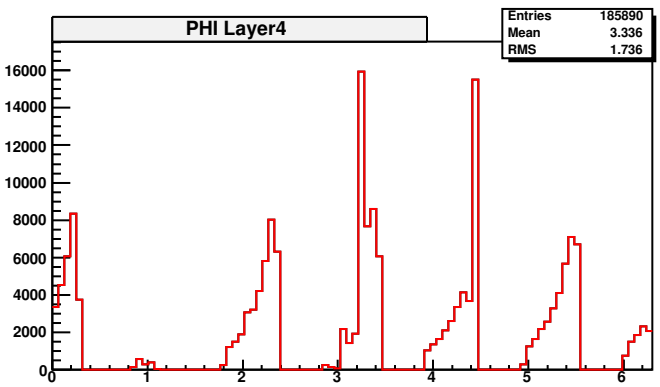


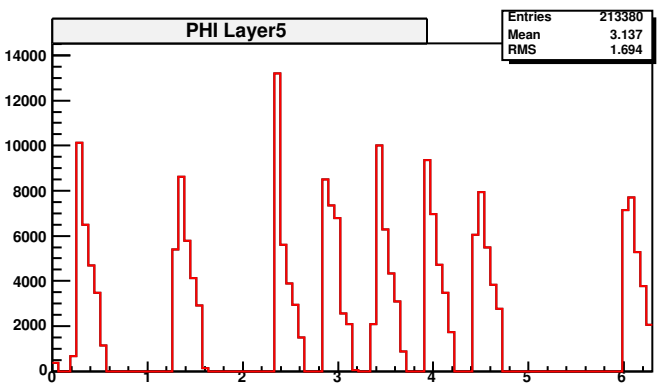
SmtClusters (ClustrBar2)

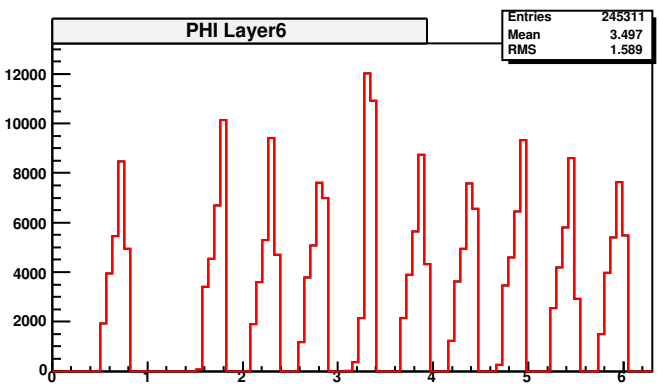


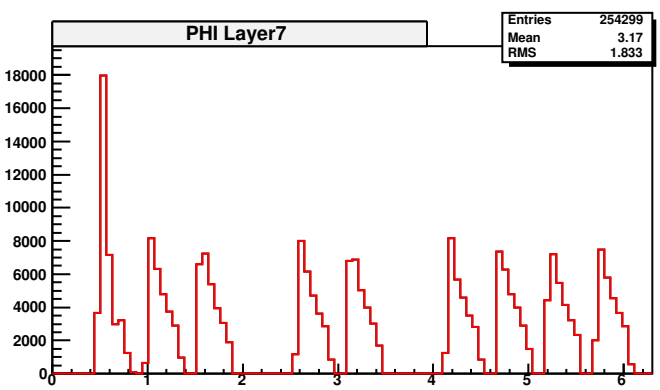


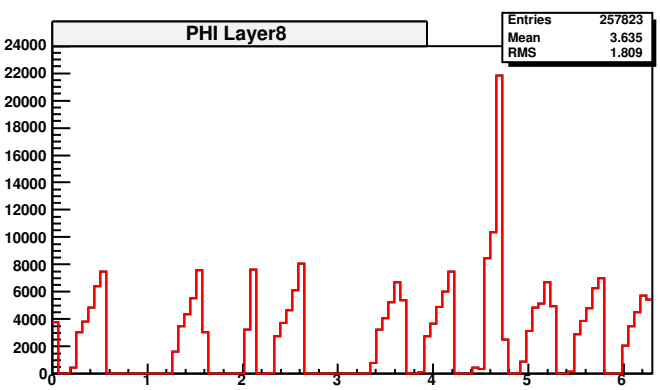




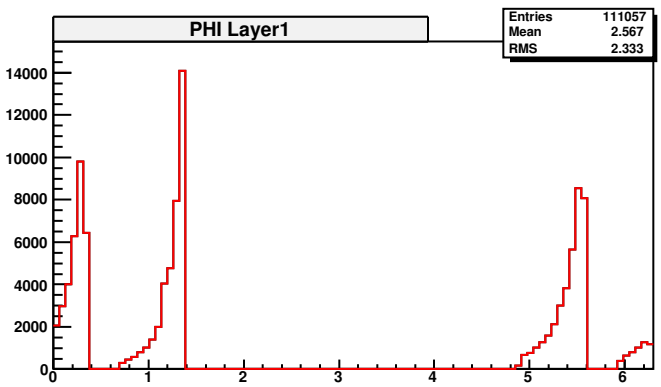


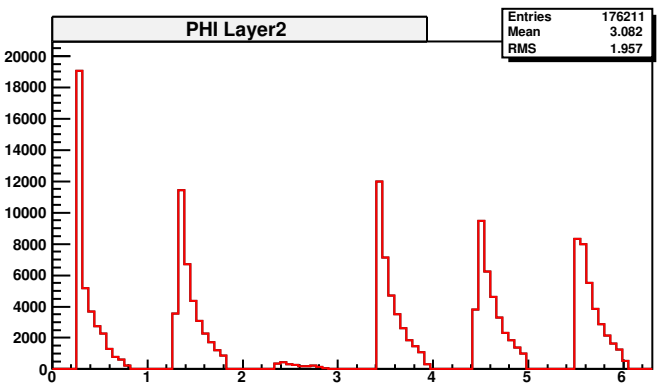


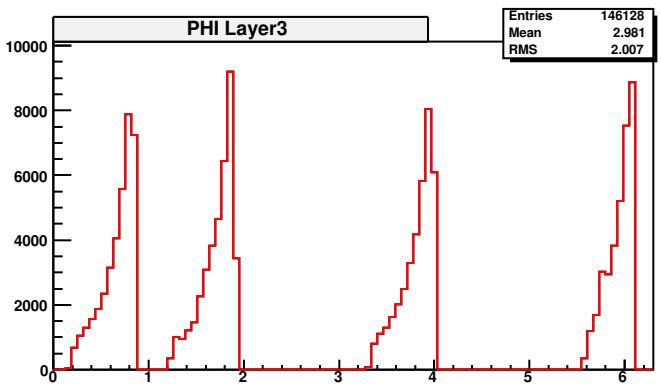


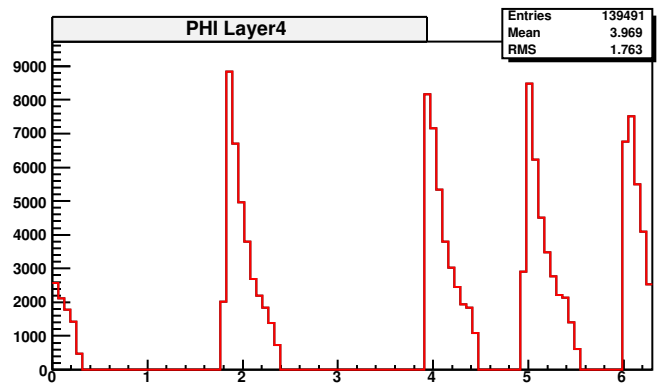


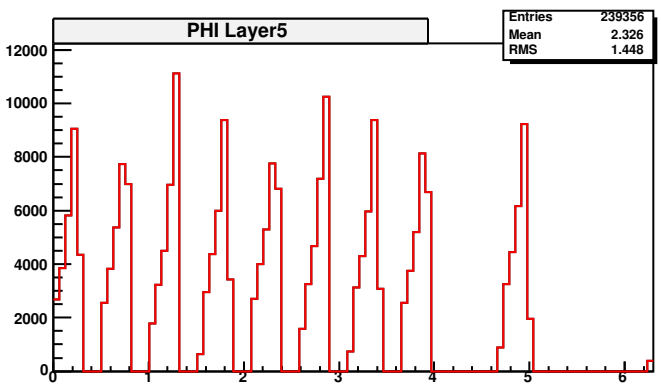
SmtClusters (ClustrBar3)

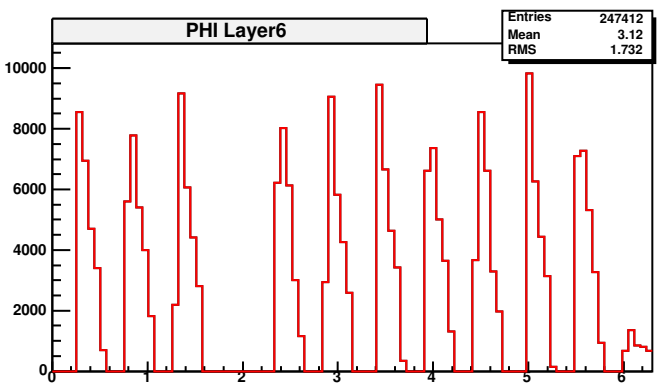


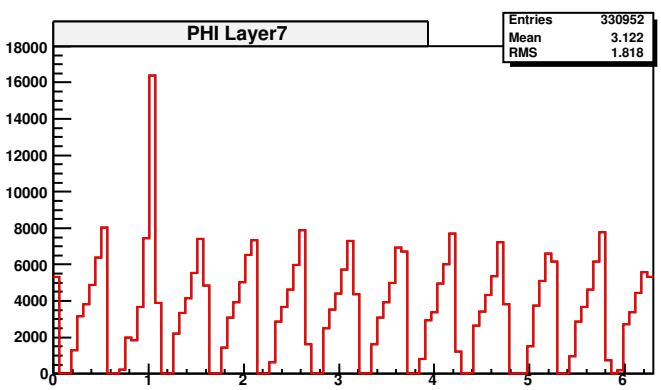


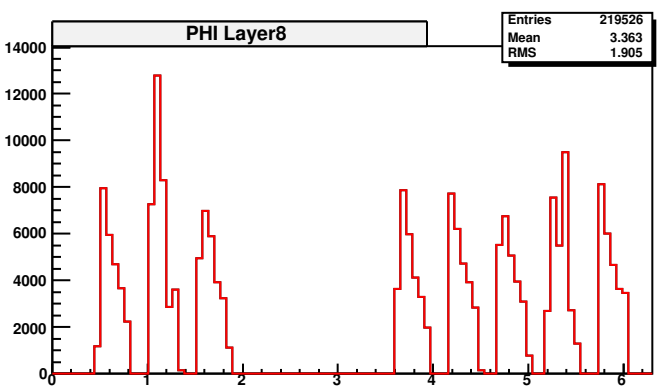




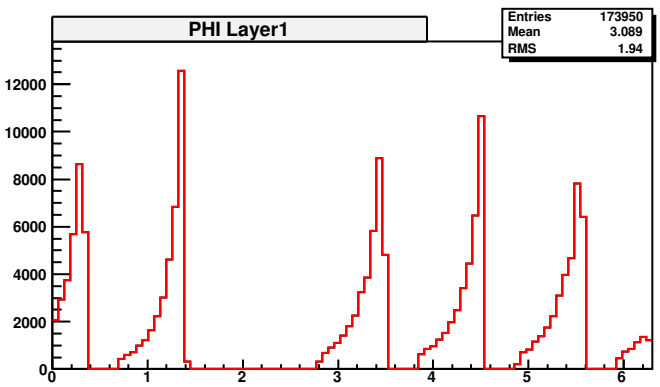


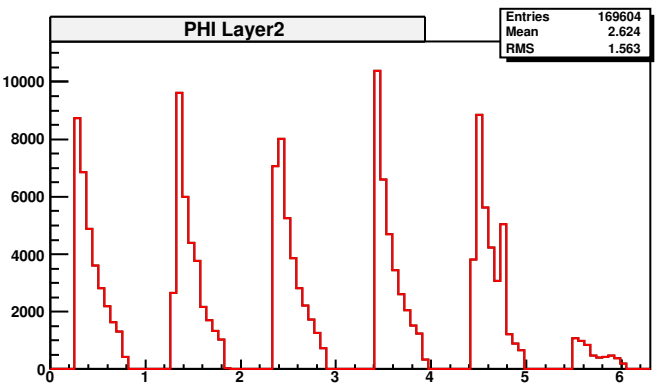


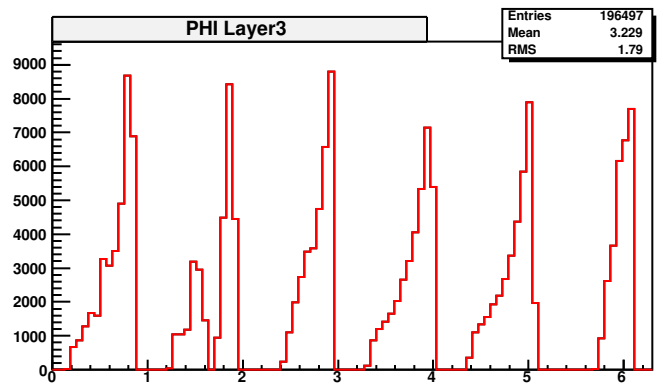


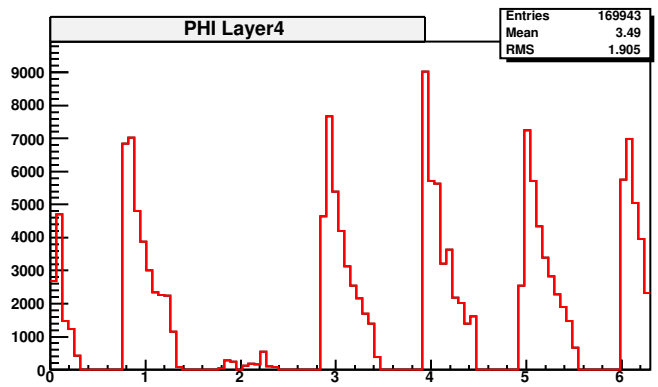


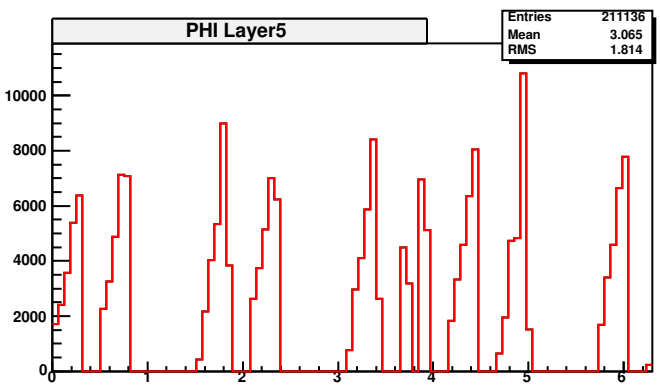
SmtClusters (ClustrBar4)

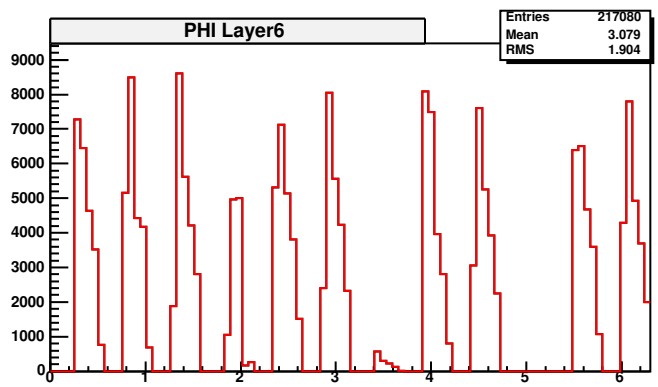


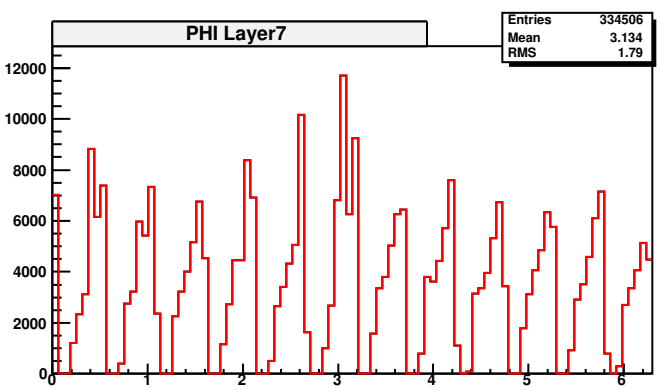


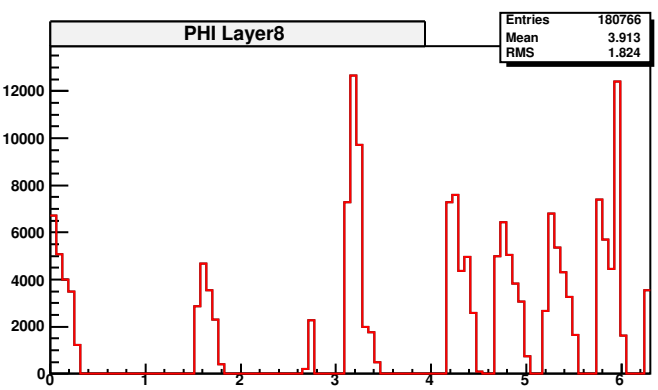




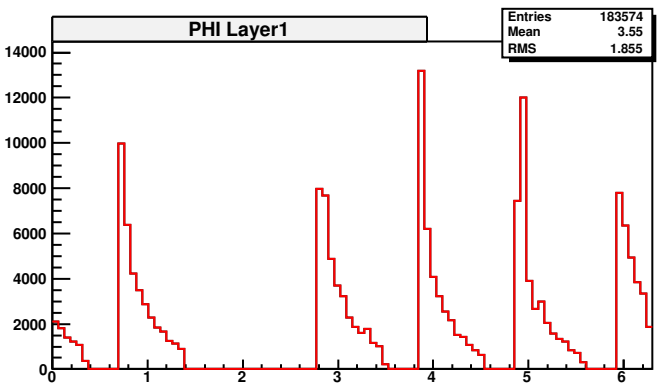


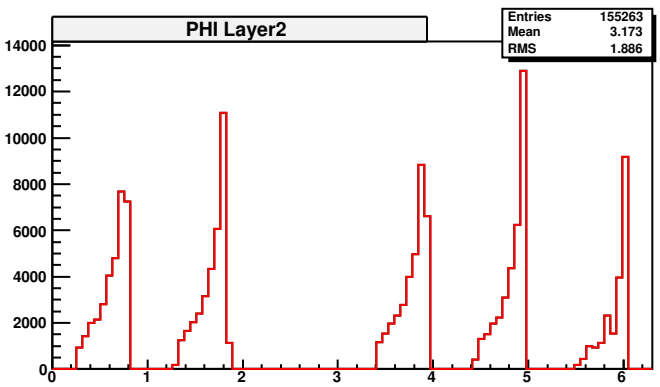


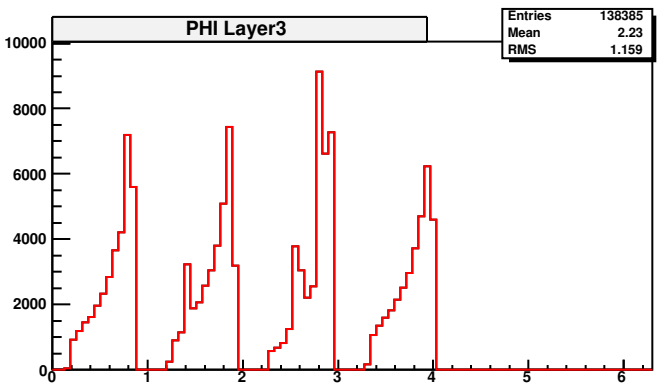


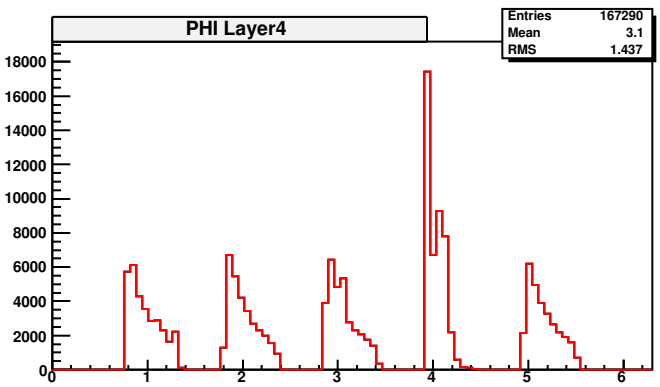


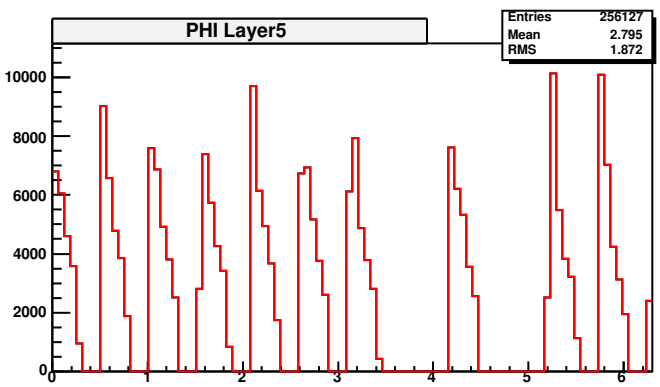
SmtClusters (ClustrBar5)

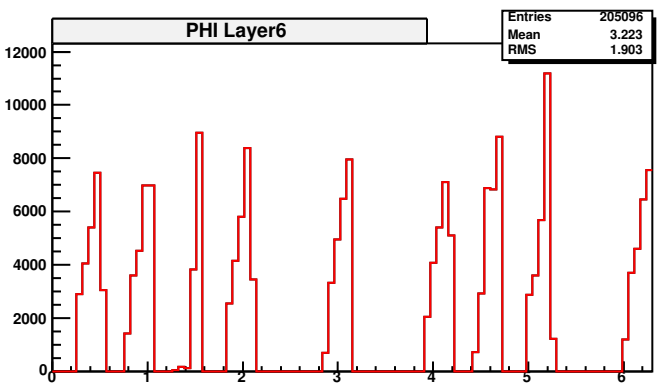


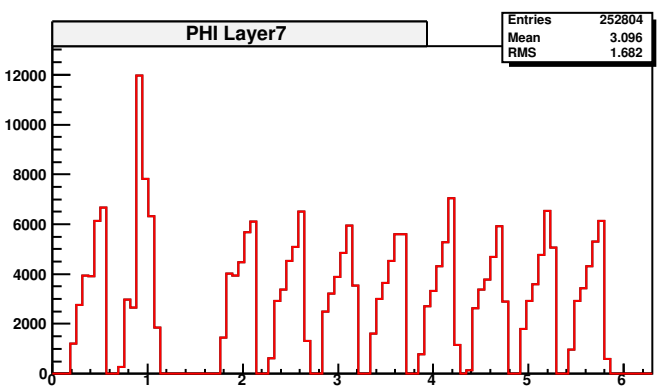


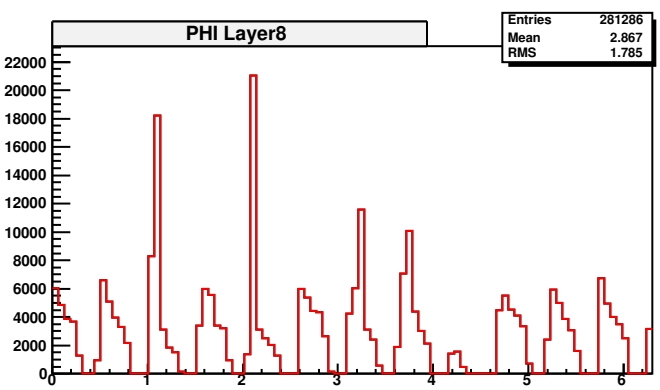




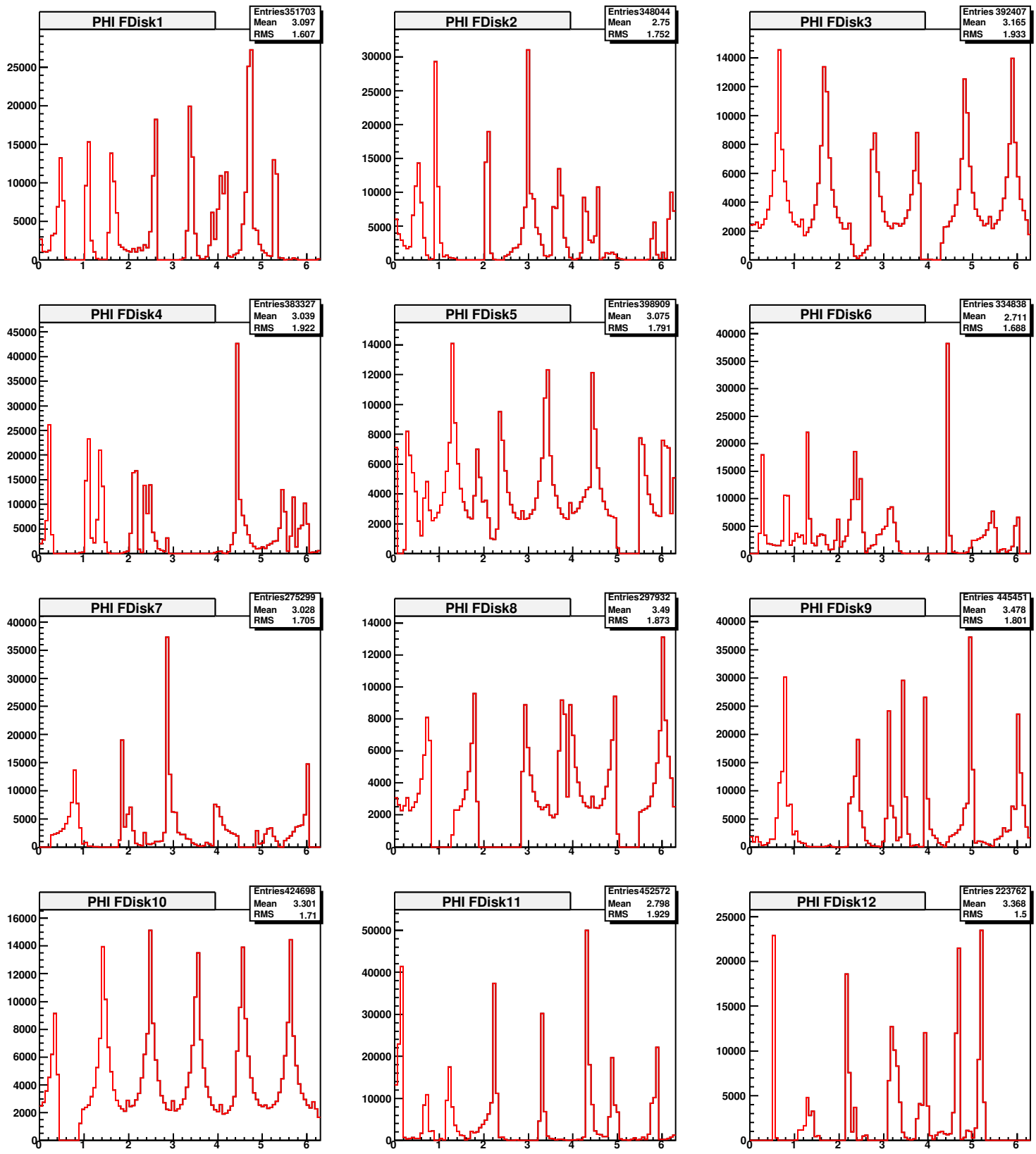




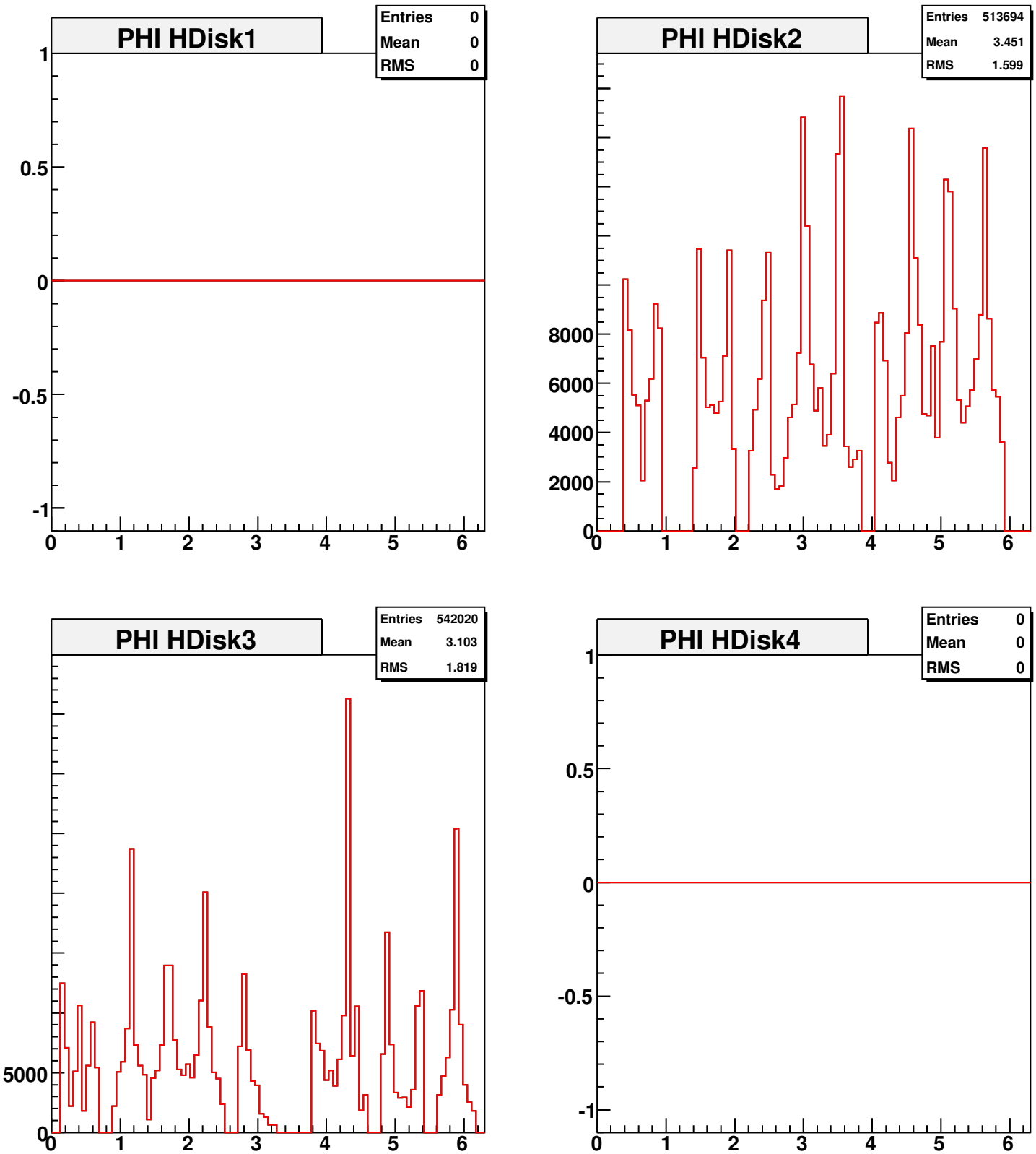




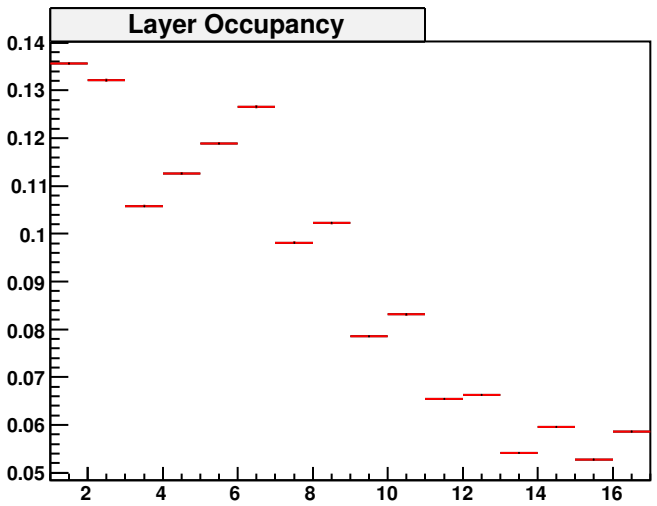
SmtClusters (ClustrBar6)

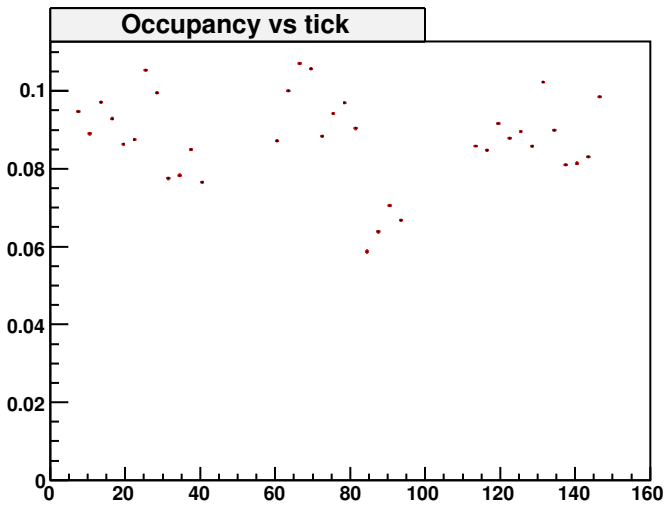


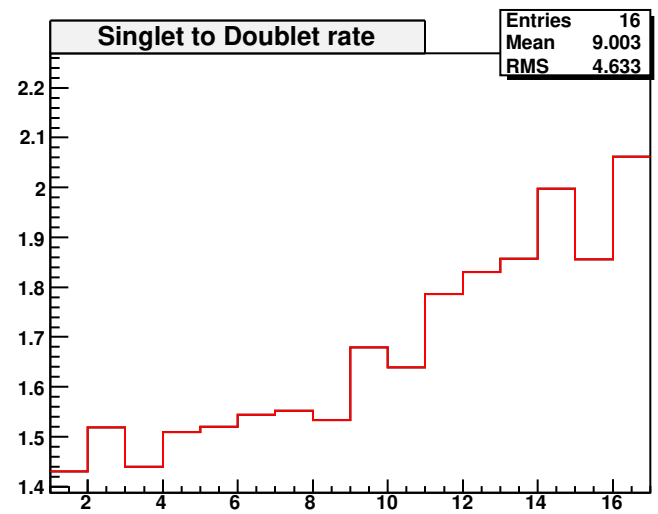
SmtClusters (FDiskClusters)

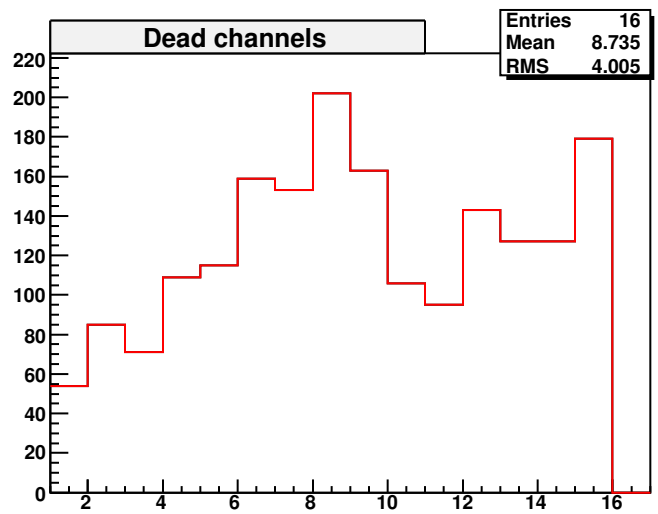


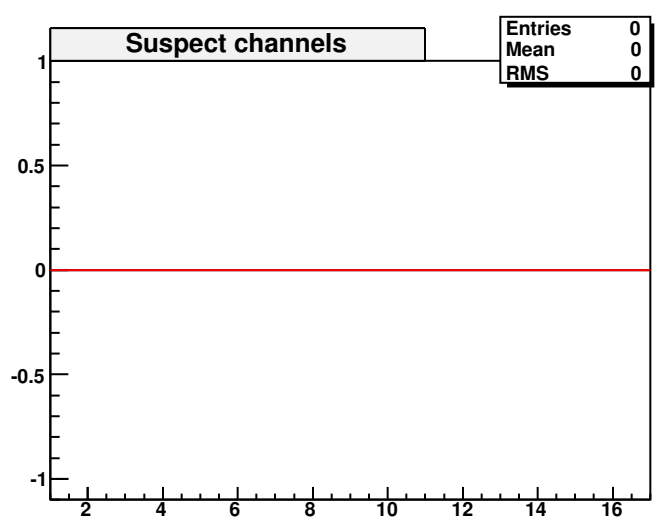
SmtClusters (HDiskClusters)

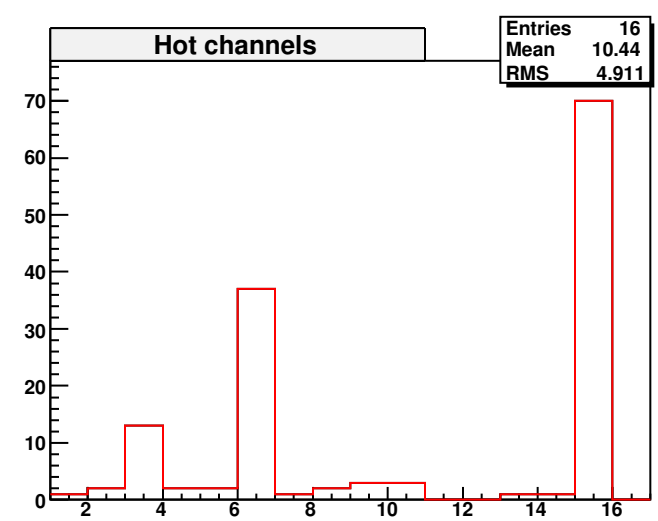




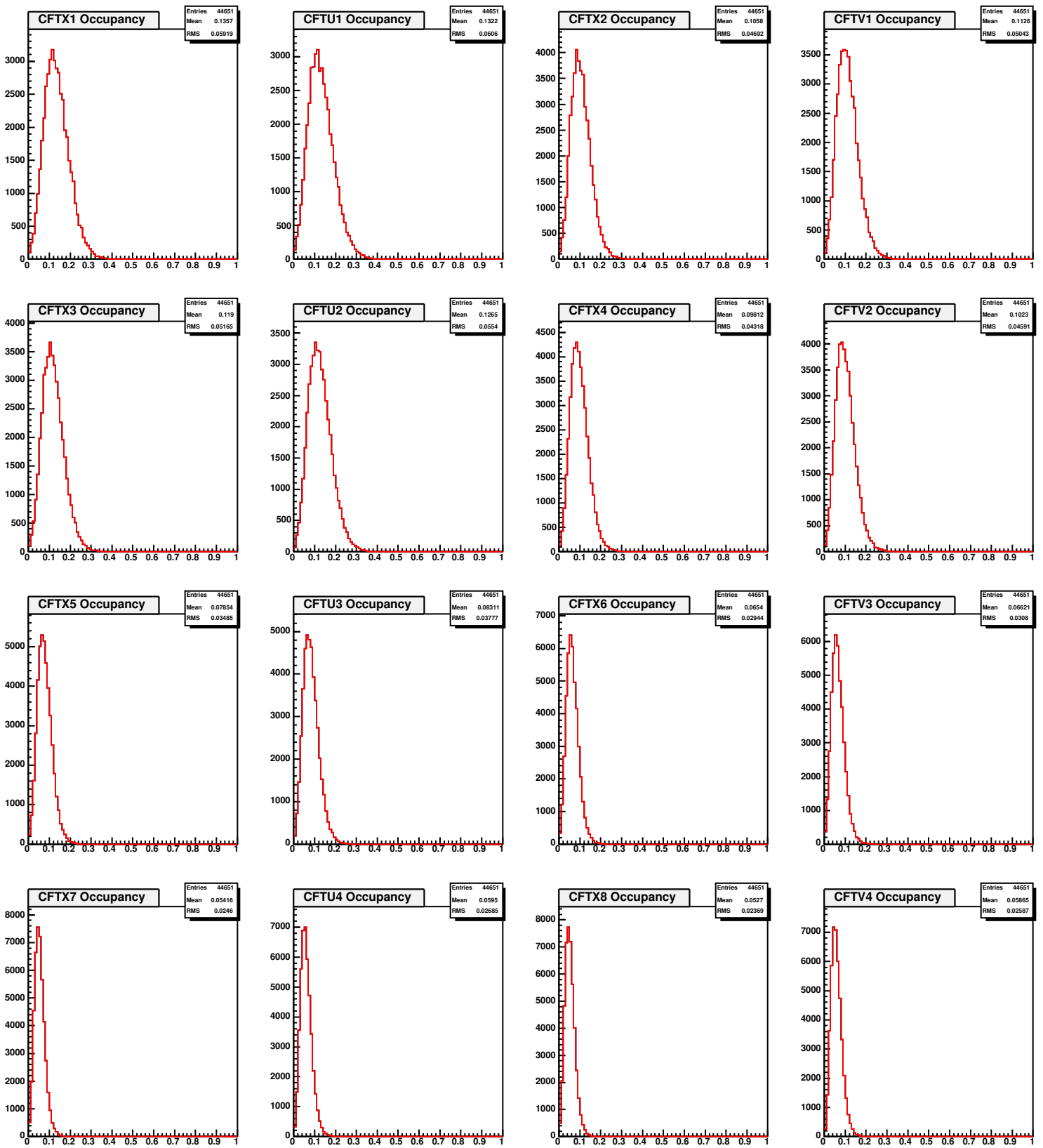




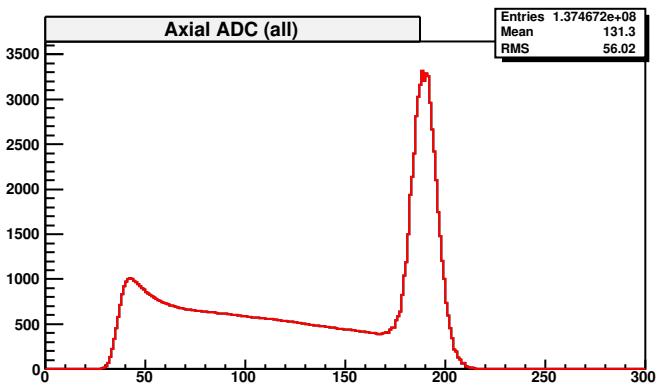


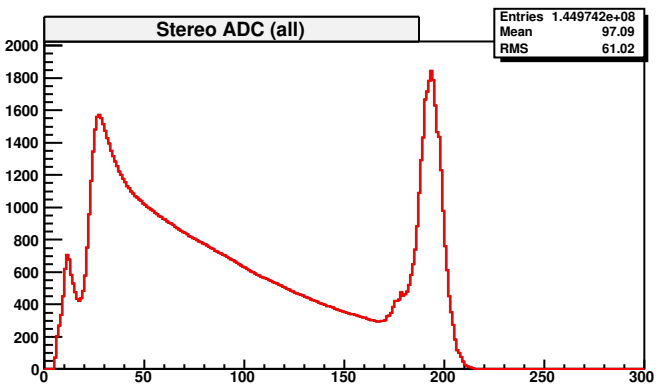


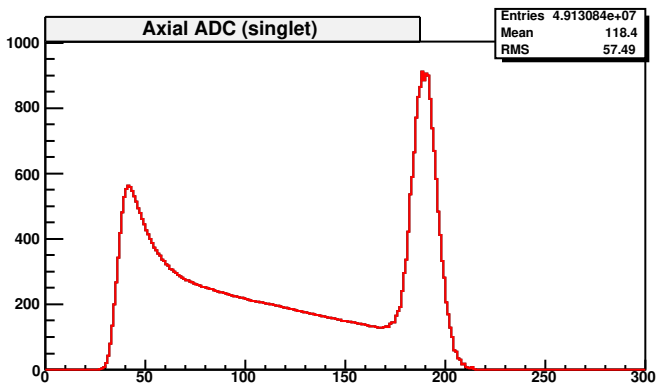
CFT Summary (All Clusters)

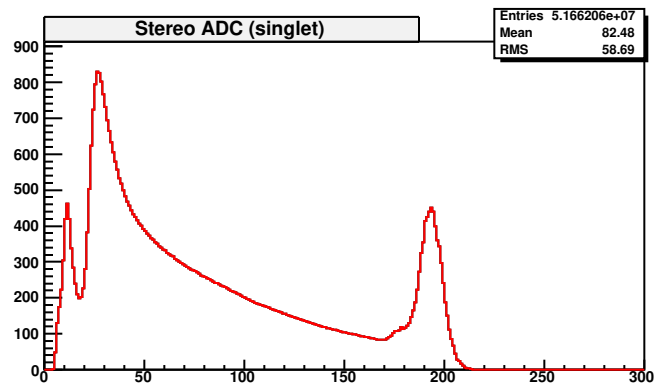


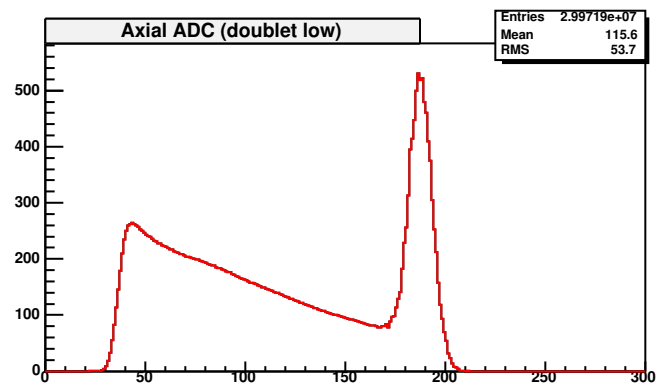
CFT Occupancy (All Clusters)

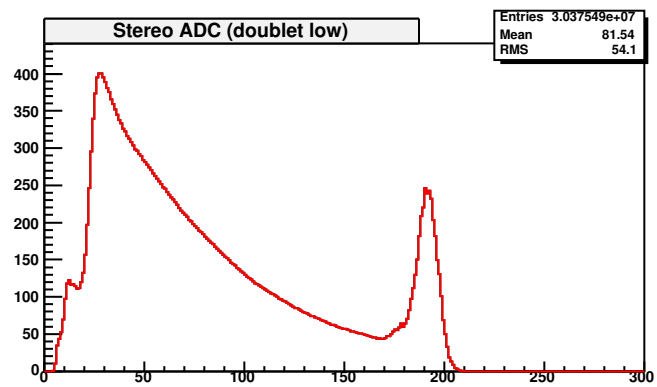


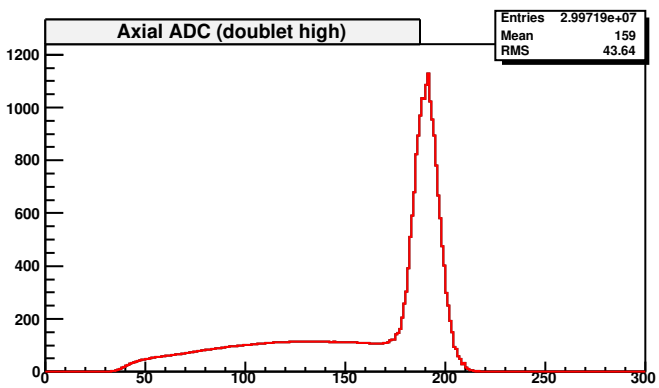


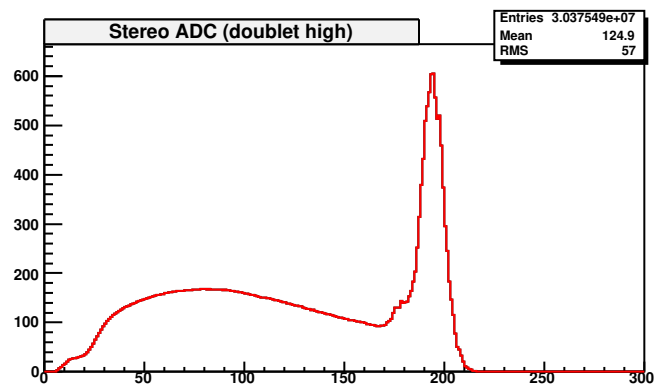




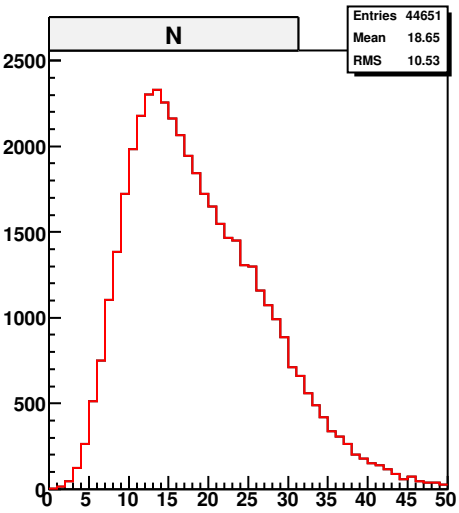


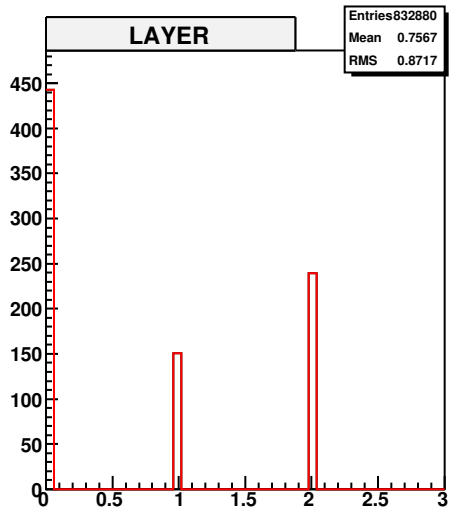


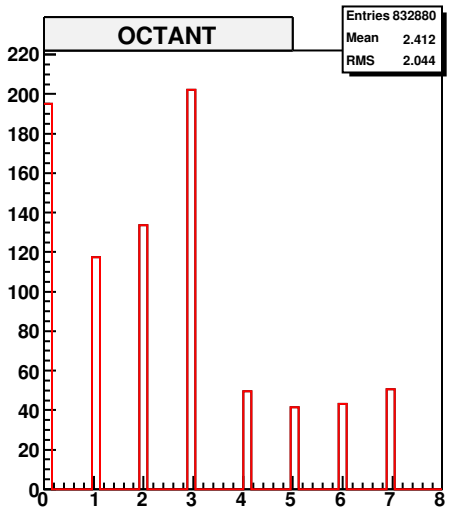


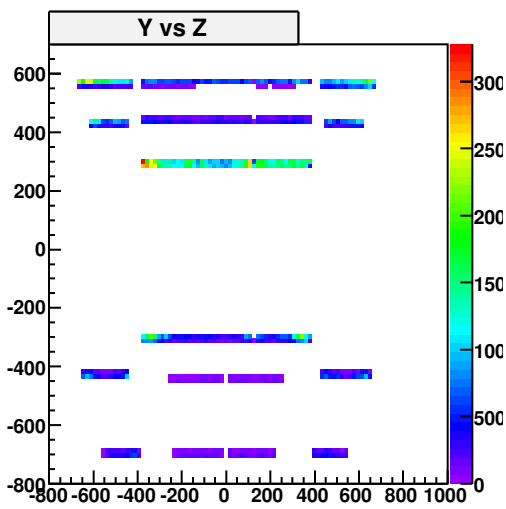


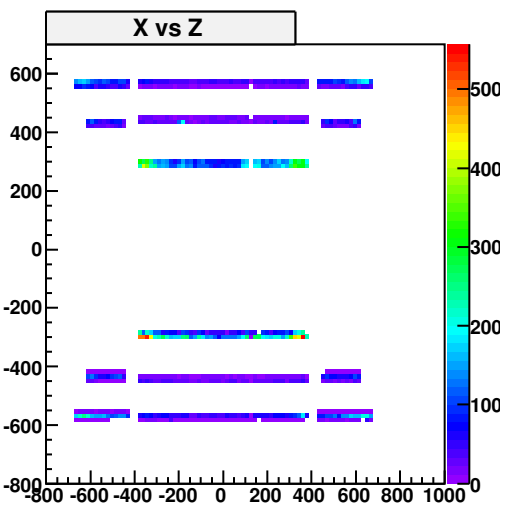
CFT ADC Summary (All Clusters)

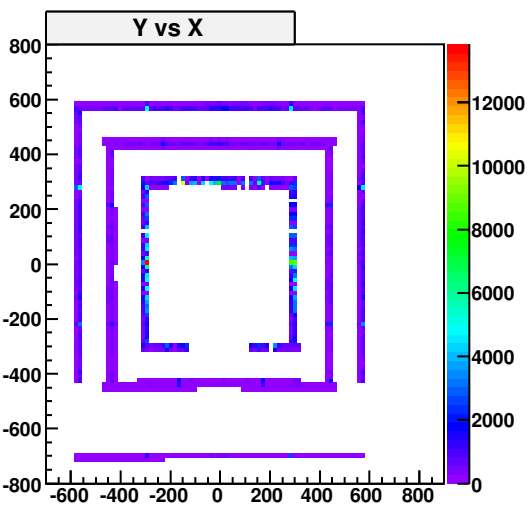

N
Entries 44651
Mean 18.65
RMS 10.53

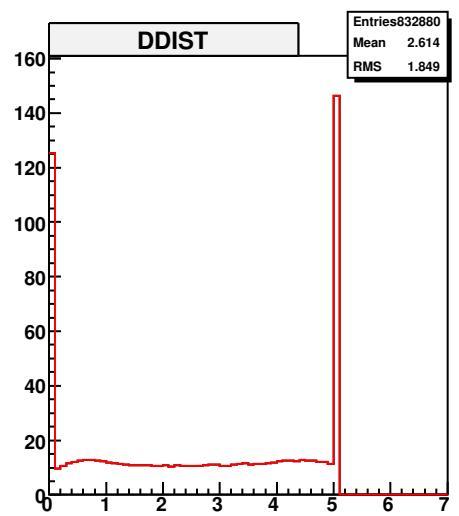

LAYER
Entries 832880
Mean 0.7567
RMS 0.8717

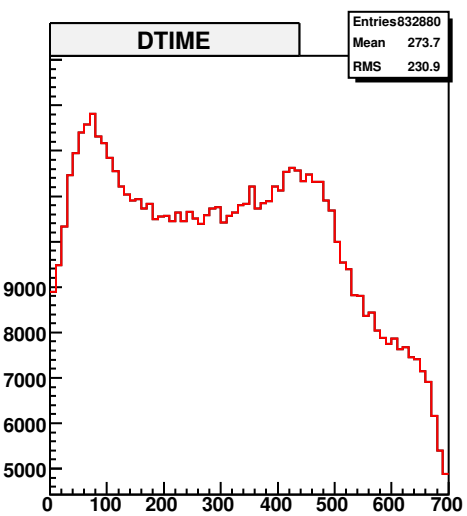

OCTANT
Entries 832880
Mean 2.412
RMS 2.044


Y vs Z

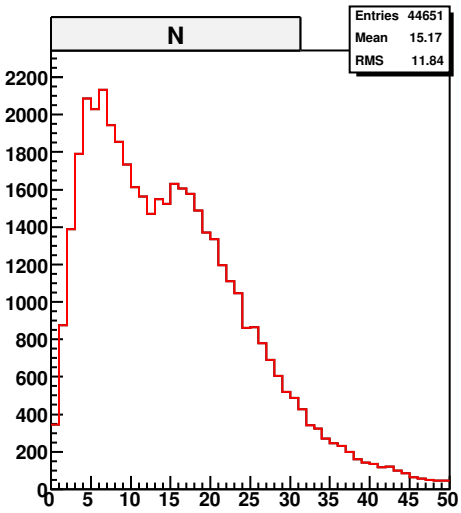

X vs Z

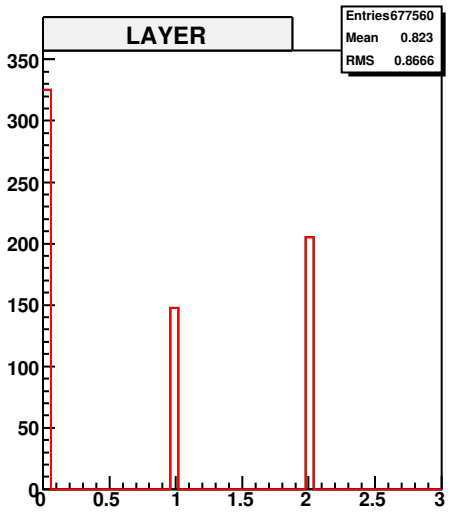

Y vs X

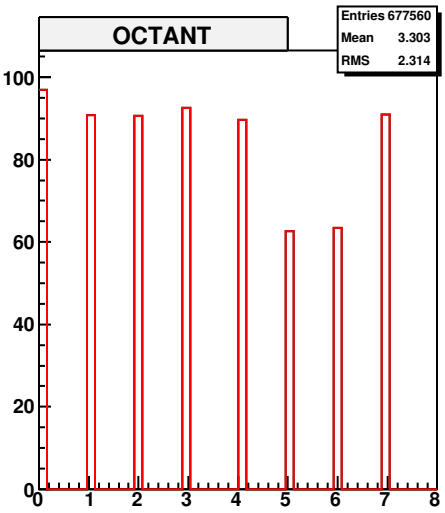

DDIST
Entries 832880
Mean 2.614
RMS 1.849

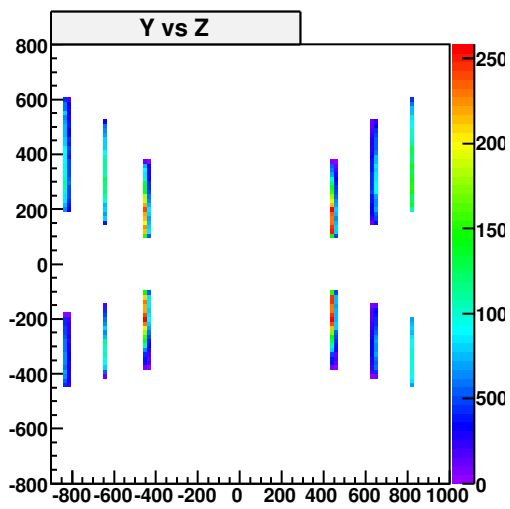

DTIME
Entries 832880
Mean 273.7
RMS 230.9

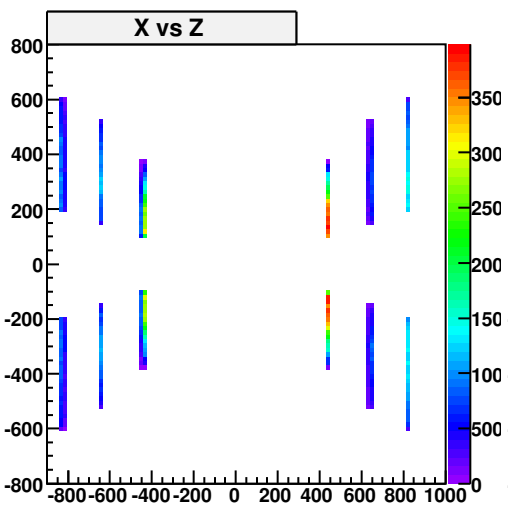
MuonPDT (All)

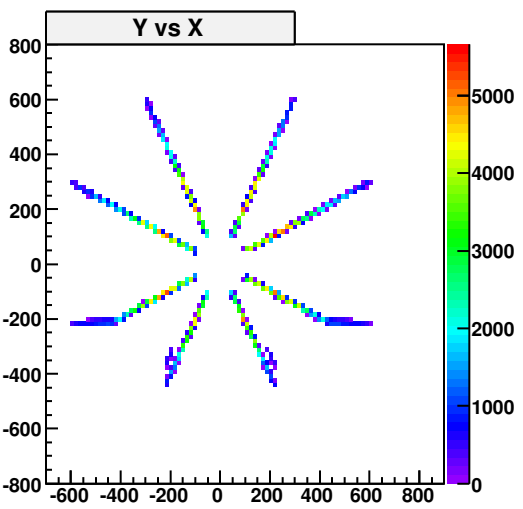

N
Entries 44651
Mean 15.17
RMS 11.84

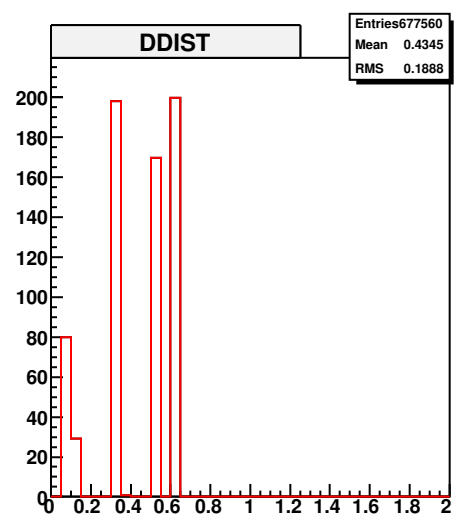

LAYER
Entries 677560
Mean 0.823
RMS 0.8666

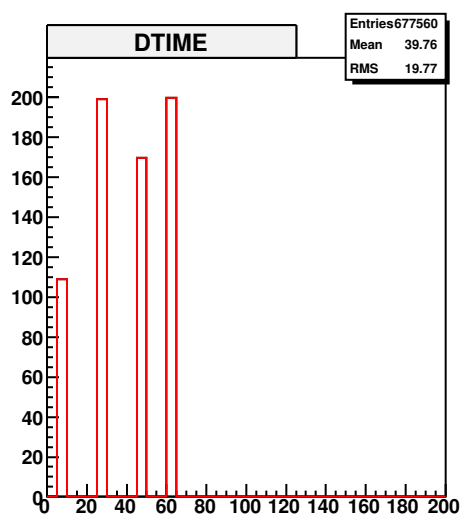

OCTANT
Entries 677560
Mean 3.303
RMS 2.314


Y vs Z

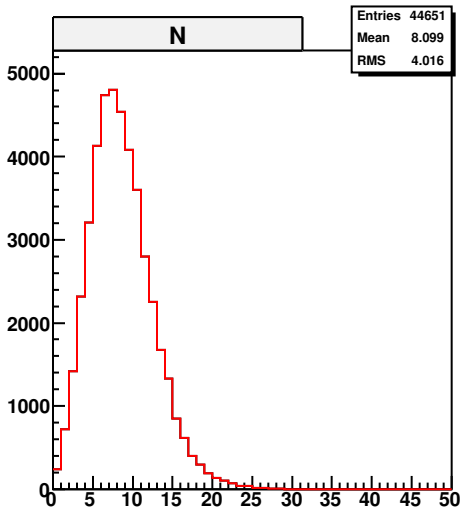

X vs Z

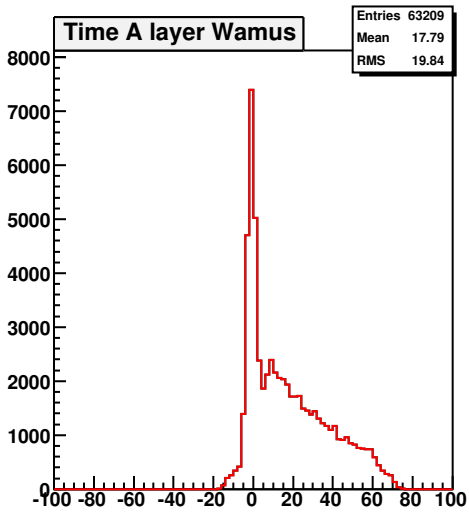

Y vs X

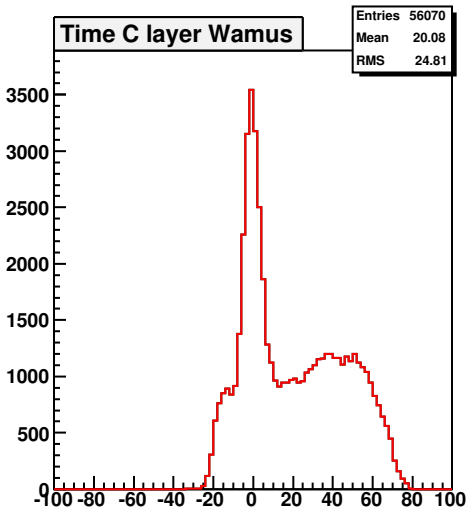

DDIST
Entries 677560
Mean 0.4345
RMS 0.1888

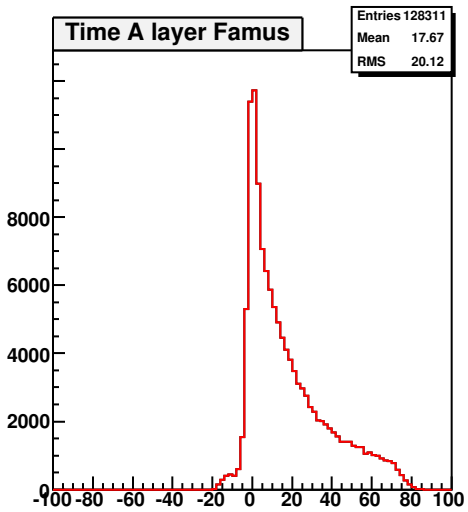

DTIME
Entries 677560
Mean 39.76
RMS 19.77

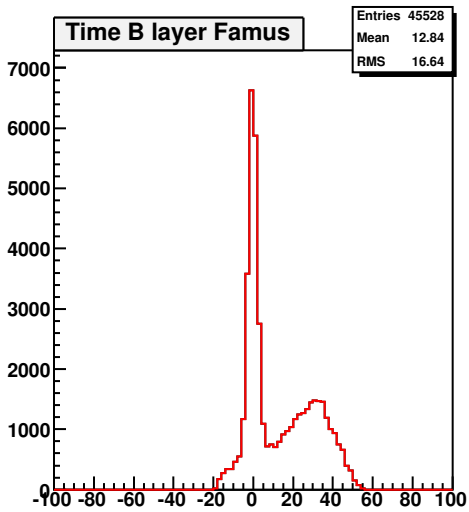
MuonMDT (All)


N
Entries 44651
Mean 8.099
RMS 4.016


Time A layer Wamus
Entries 63209
Mean 17.79
RMS 19.84


Time C layer Wamus
Entries 56070
Mean 20.08
RMS 24.81


Time A layer Famus
Entries 128311
Mean 17.67
RMS 20.12


Time B layer Famus
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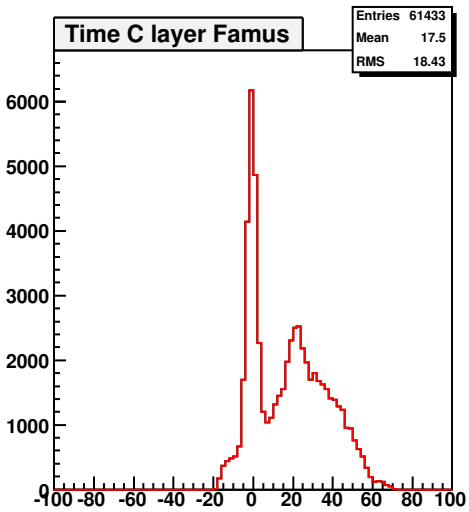
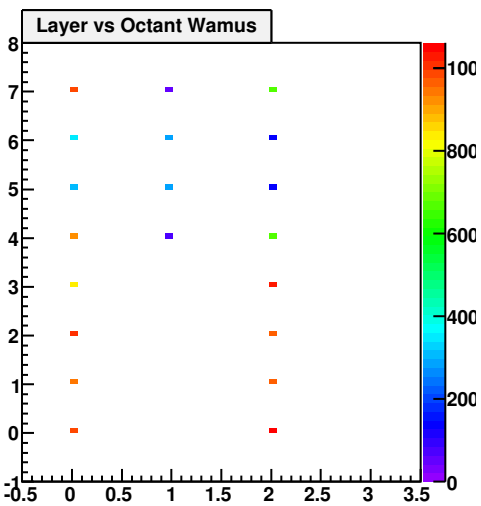
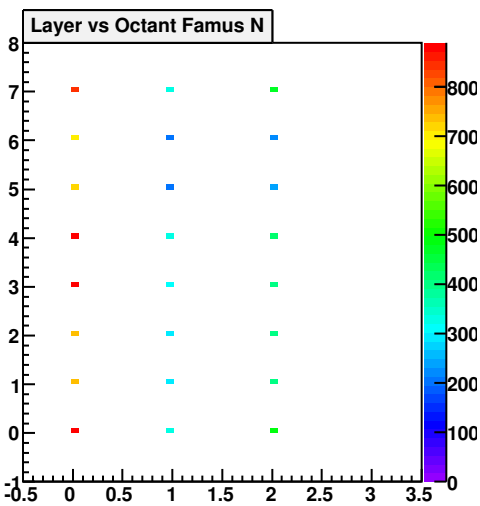
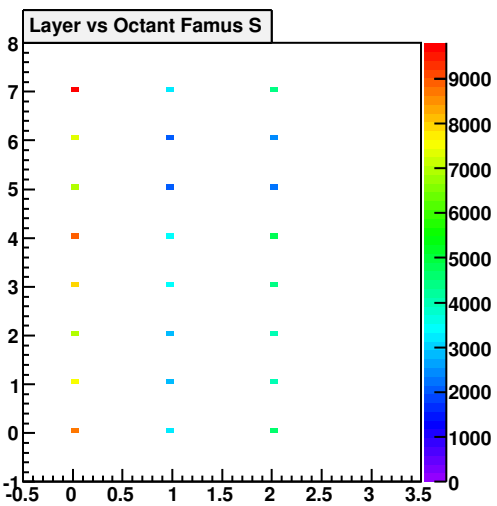
Mean 12.84
RMS 16.64

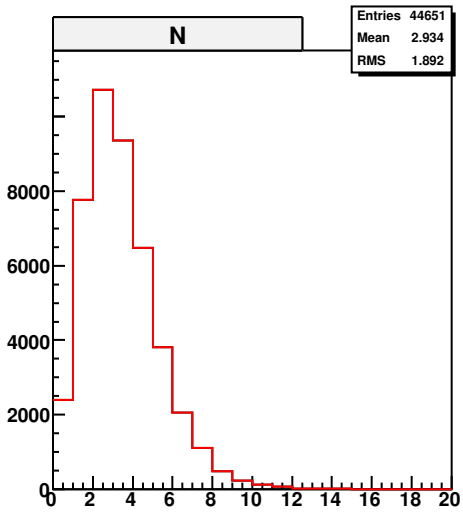

Time C layer Famus
Entries 61433
Mean 17.5
RMS 18.43

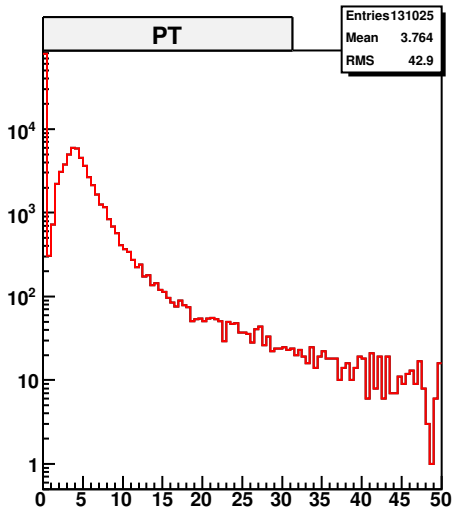

Layer vs Octant Wamus

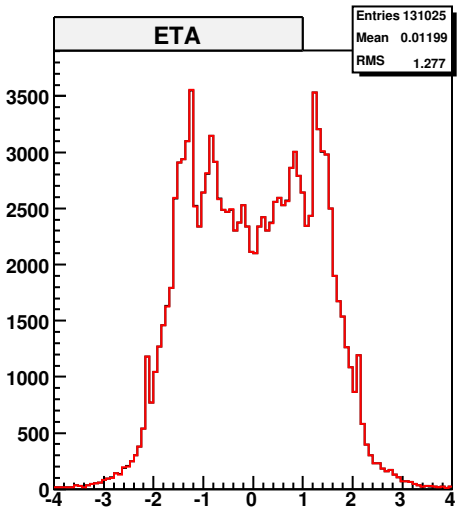

Layer vs Octant Famus N

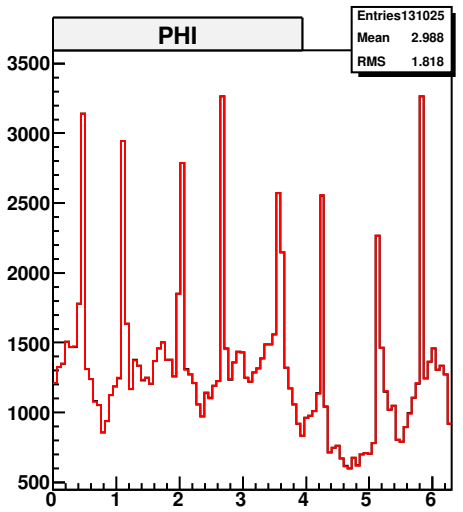

Layer vs Octant Famus S

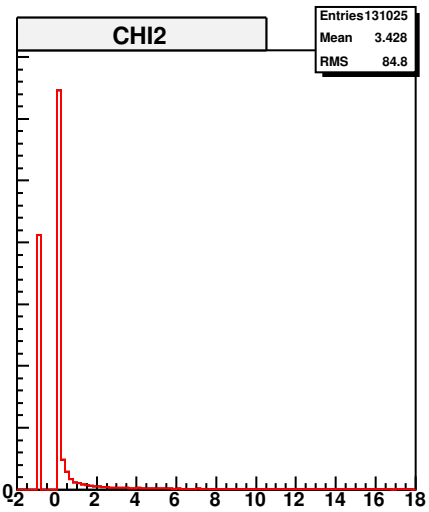
MuonMSC (All)

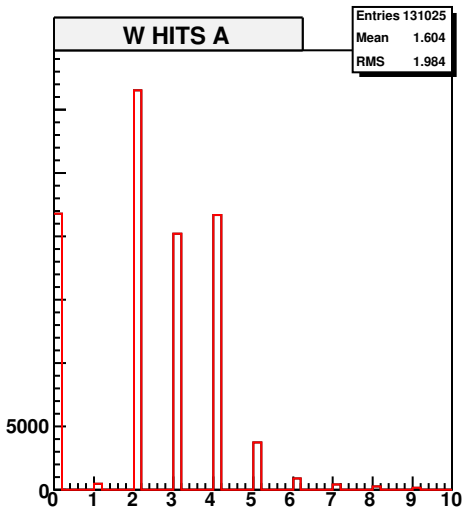


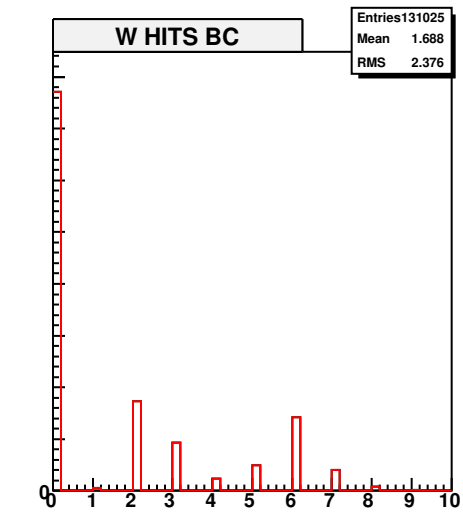


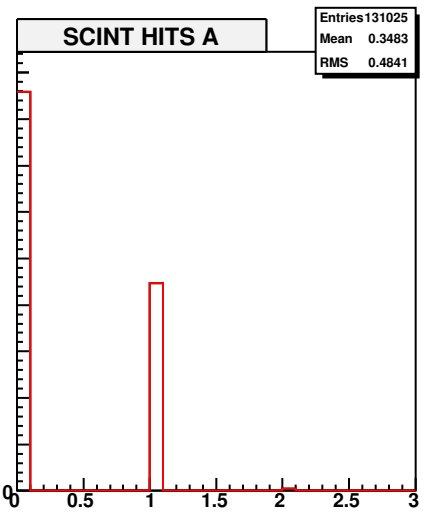


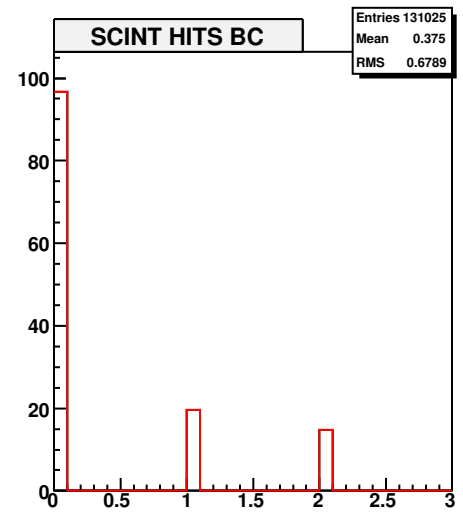




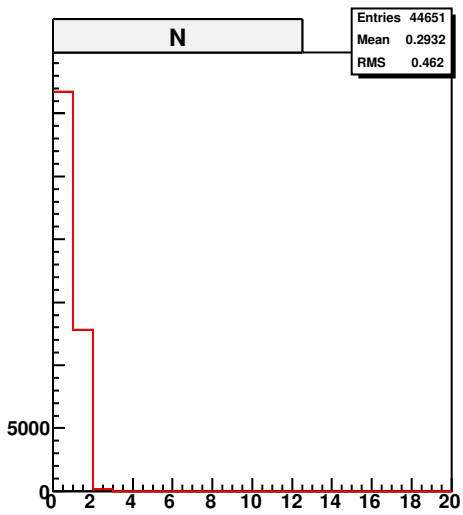


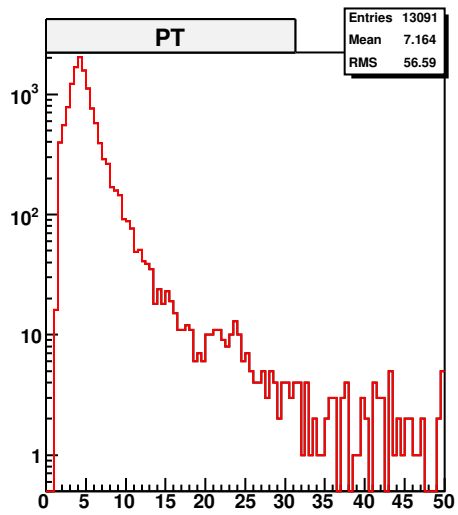


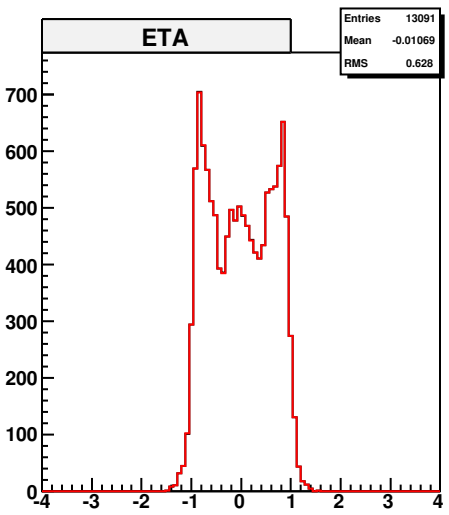


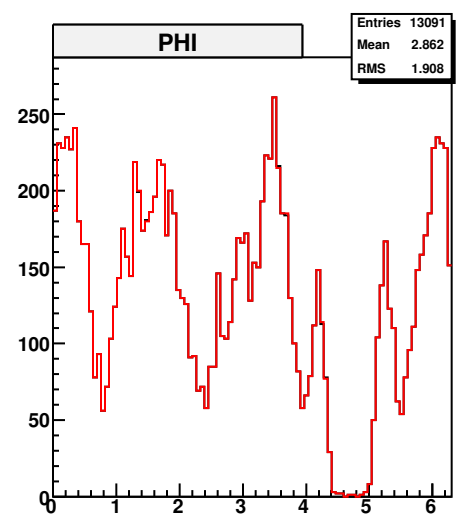


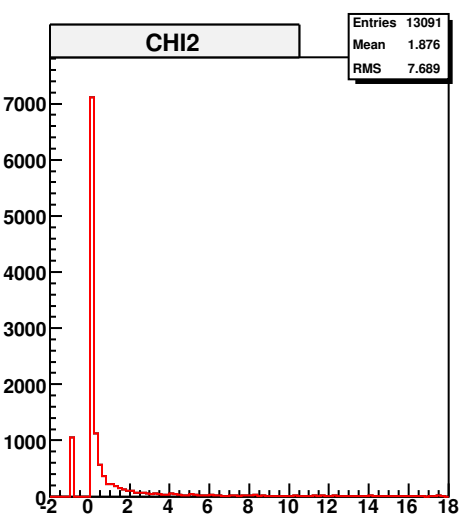
Muon Local Tracks (All)

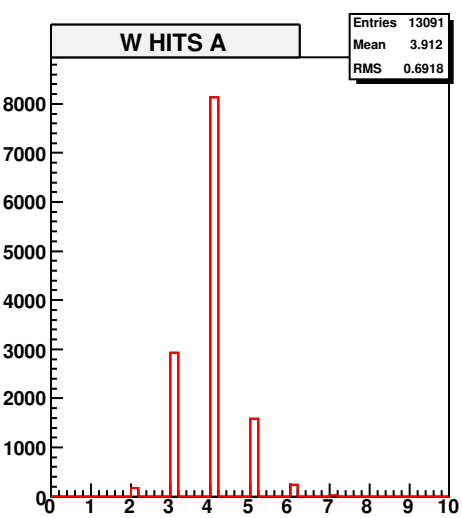


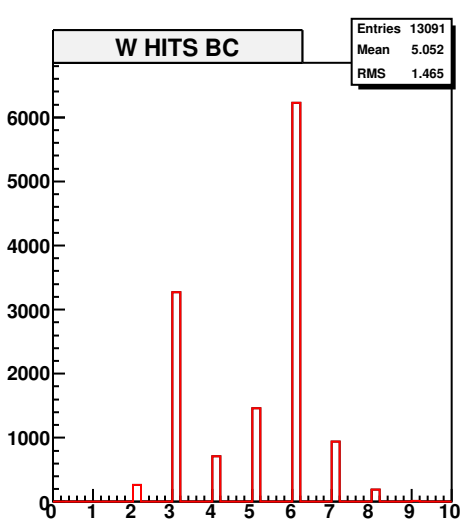


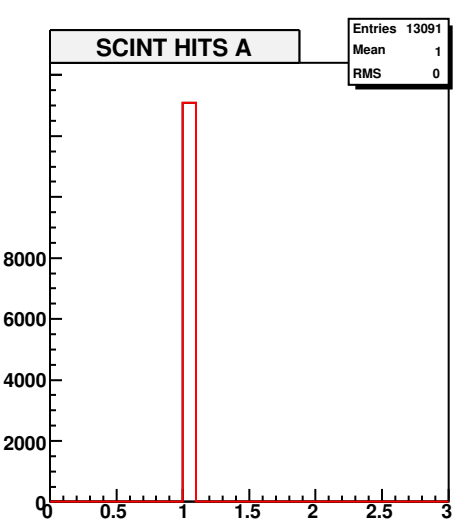


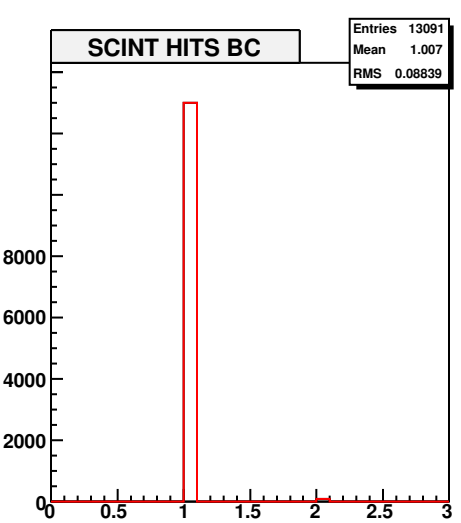












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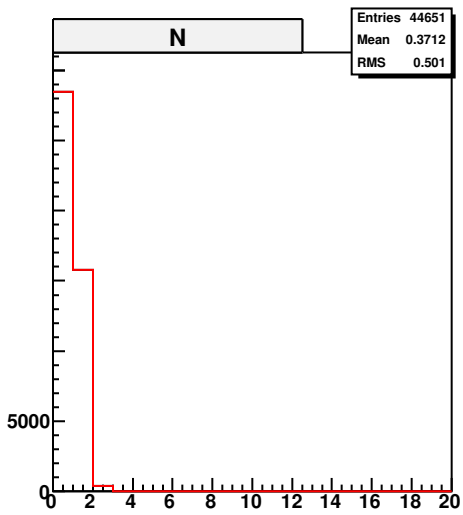

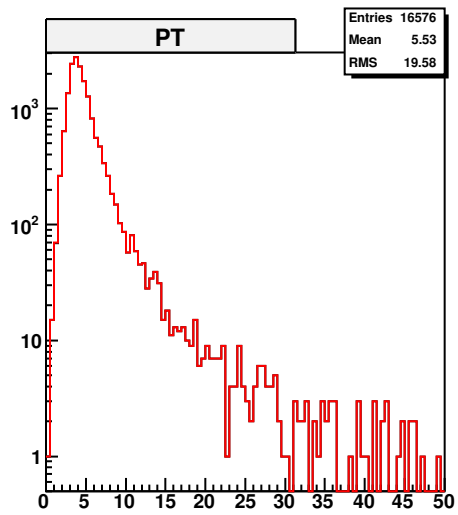

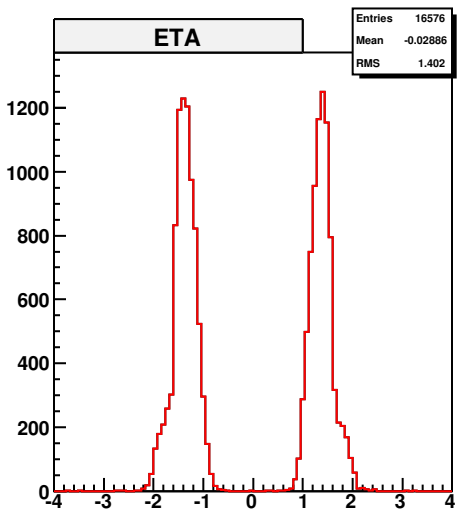

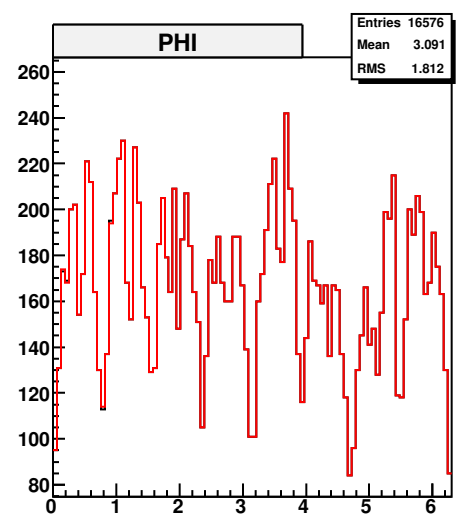

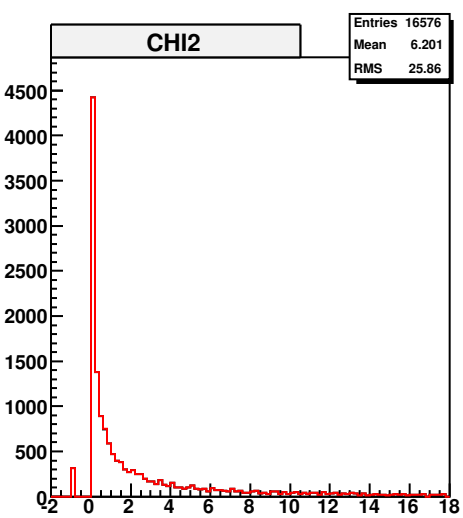

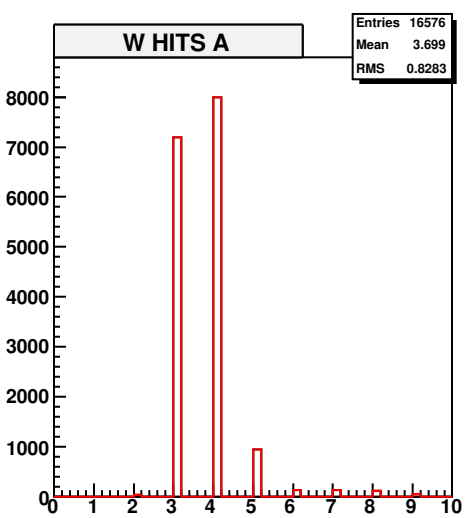

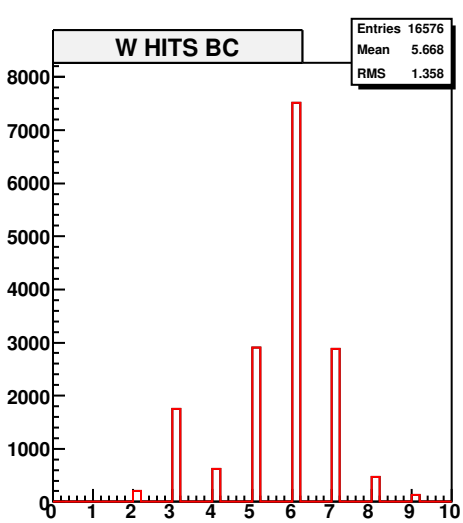

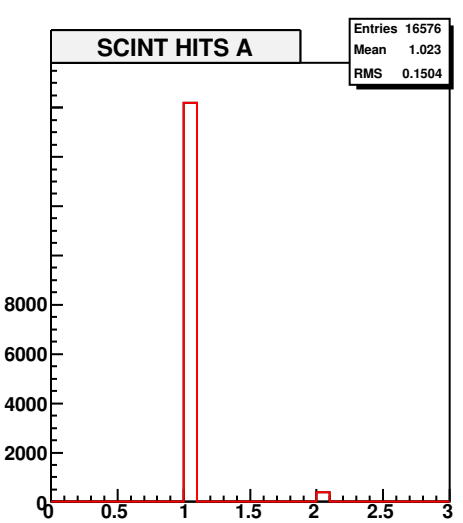

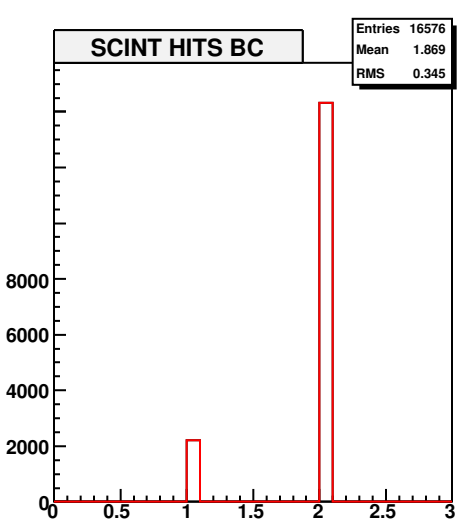

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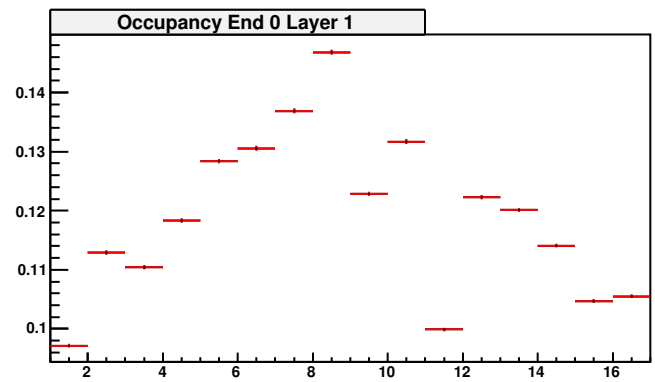
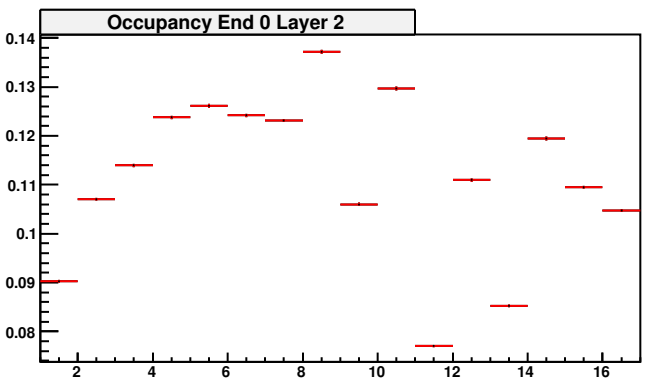
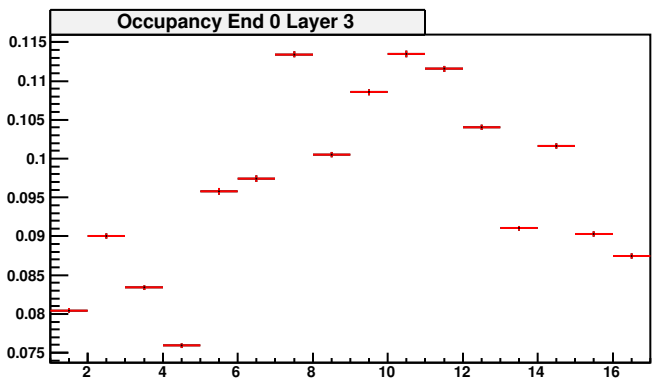
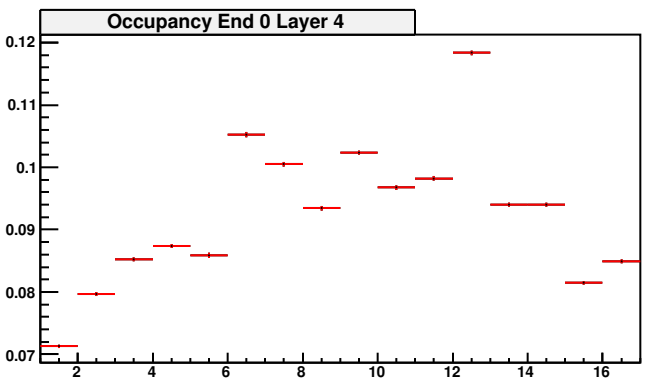
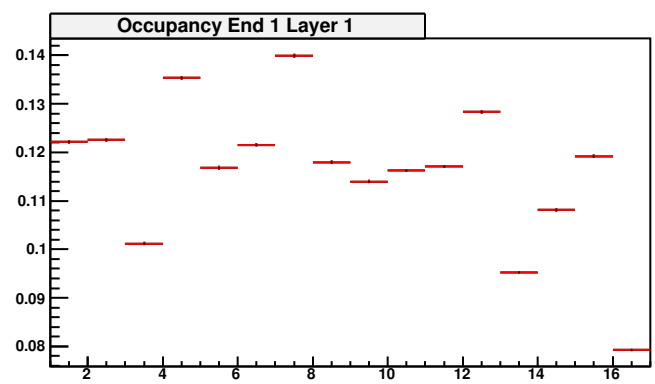
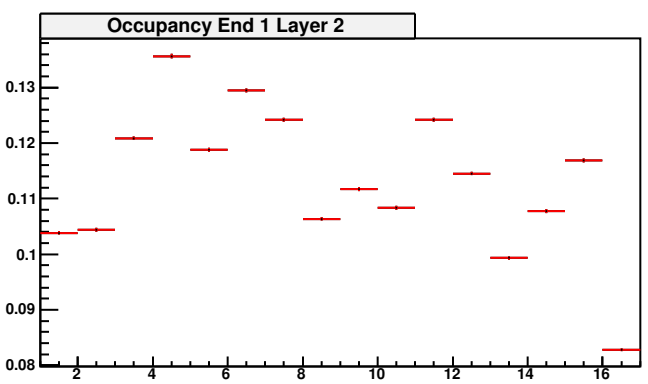


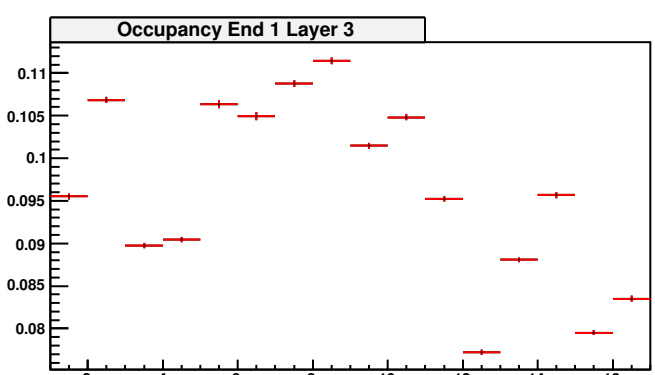


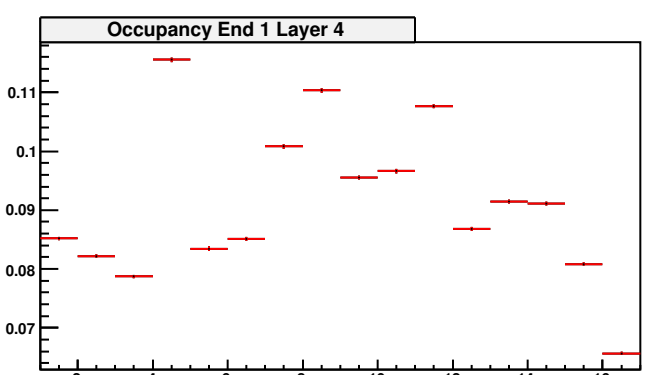




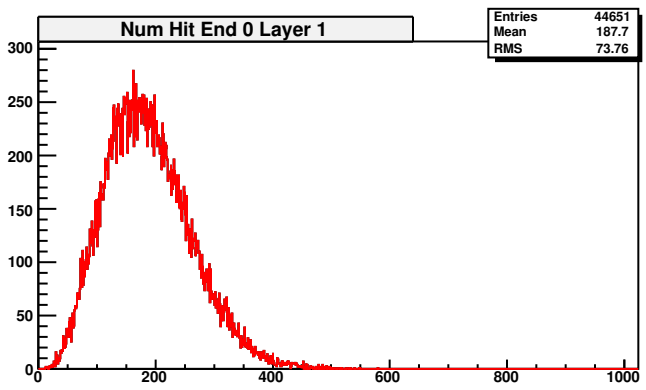


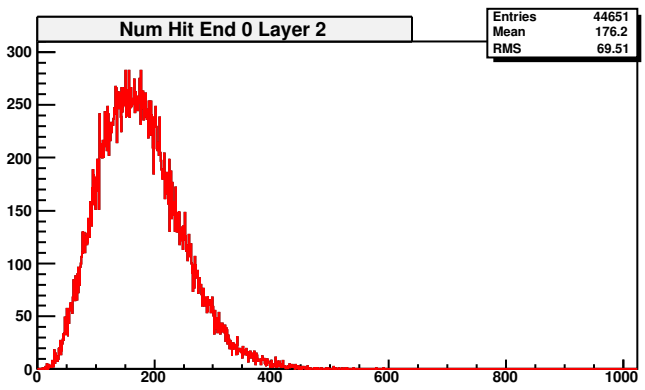


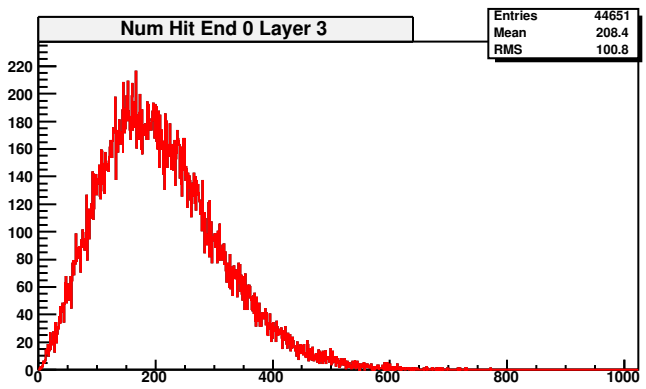


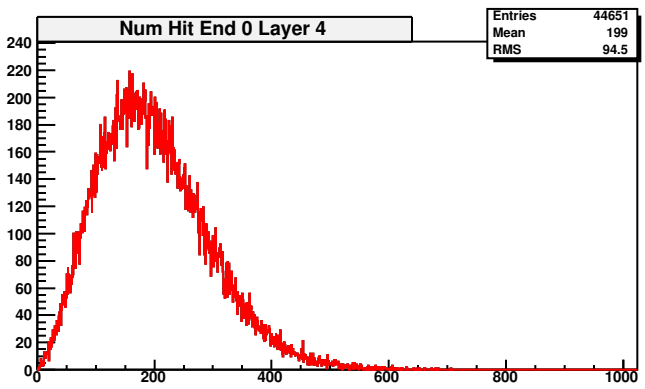


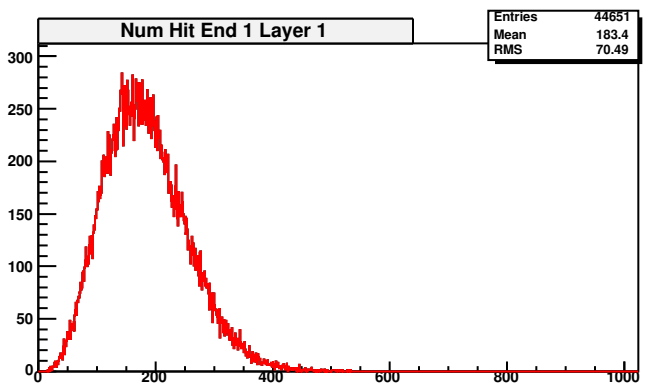
FPS Hit Occupancy (All)

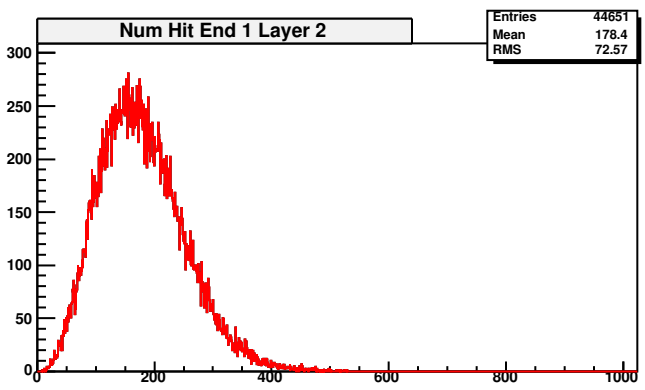


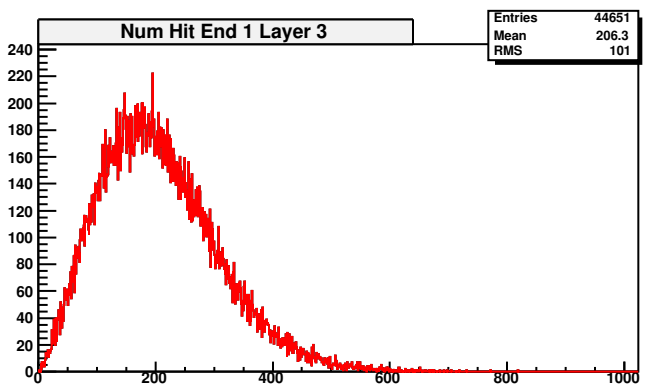


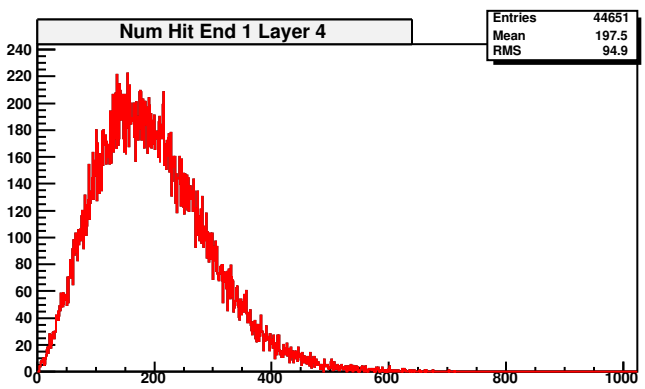




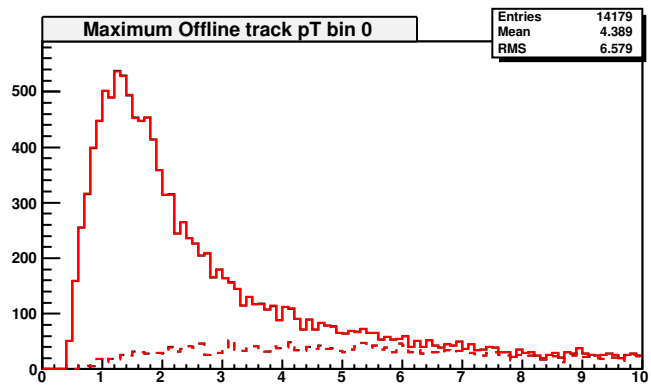


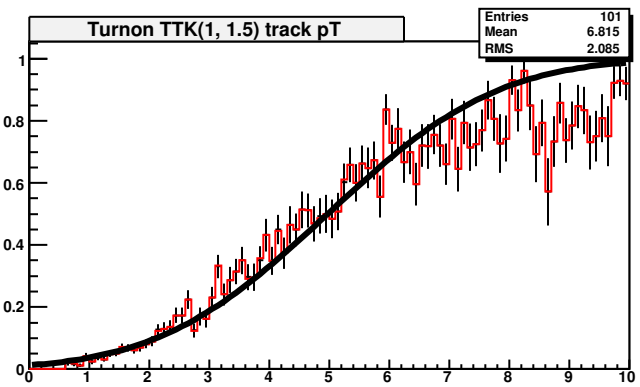


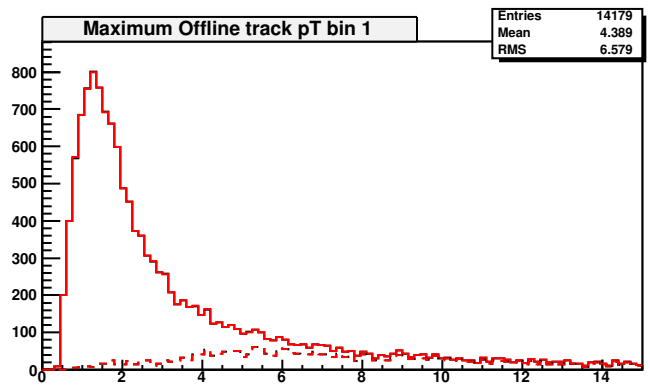


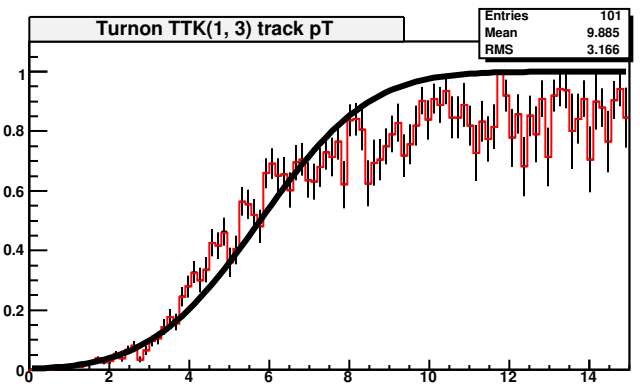


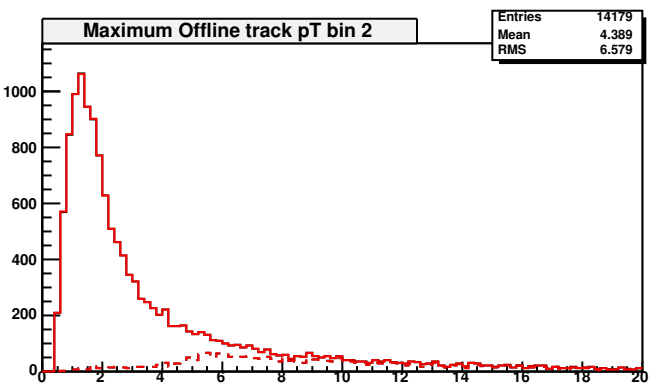
FPS Number of Hits (All)

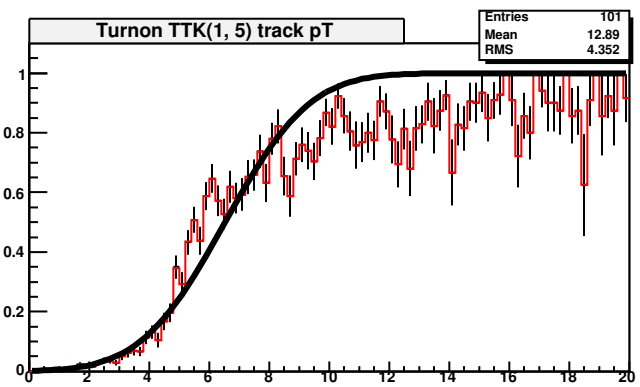


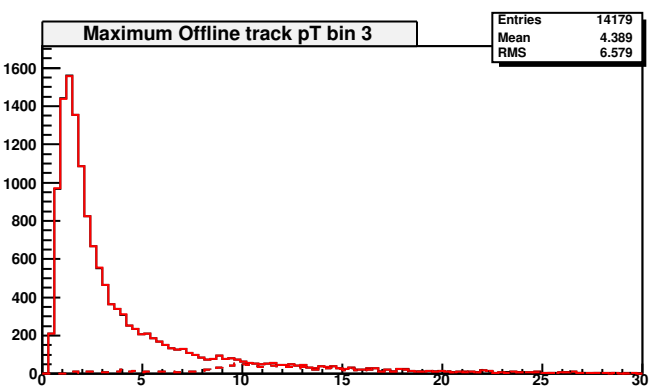


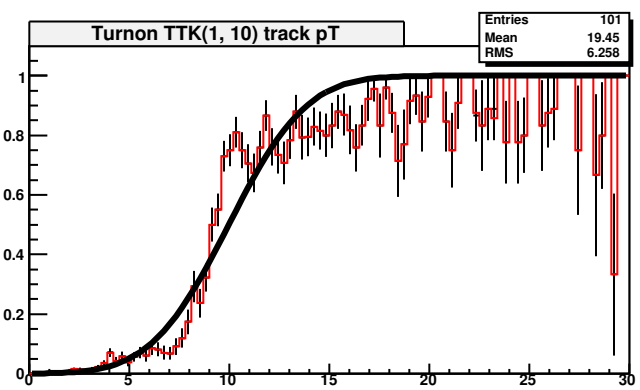




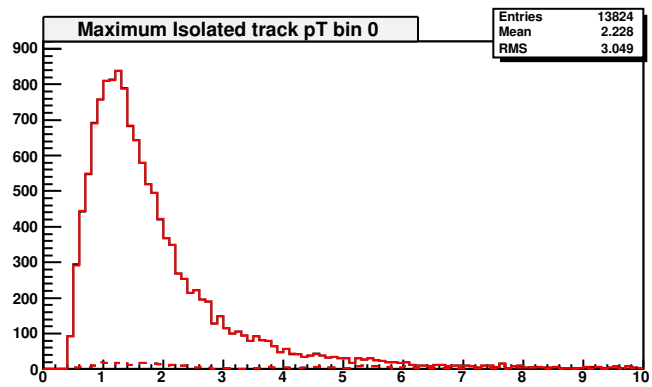


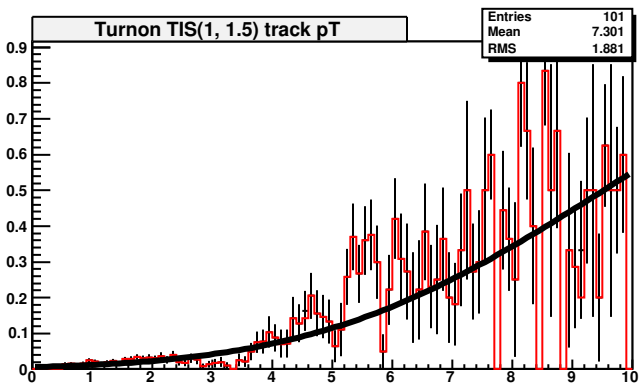


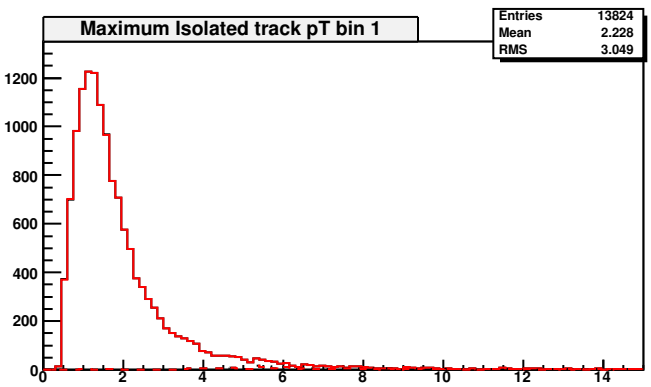


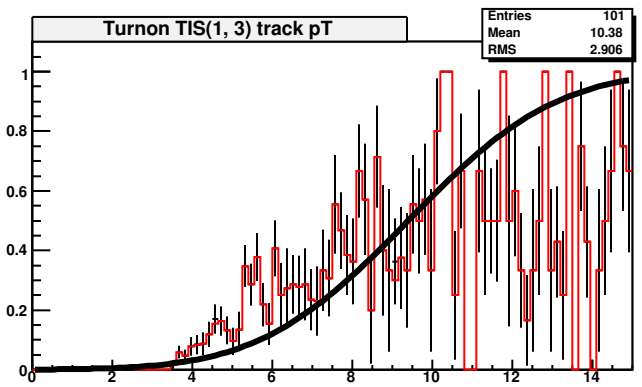


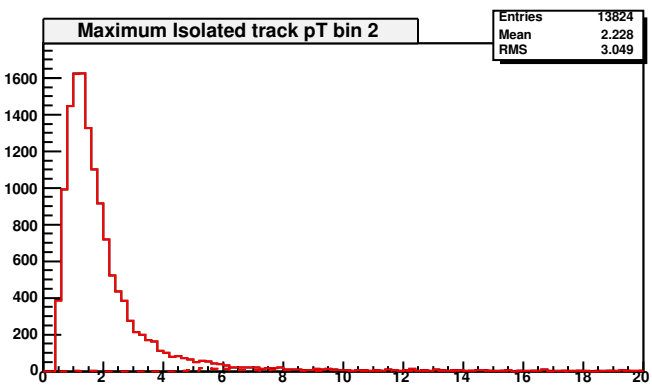
TTK Turnon curves (L1CTT All)

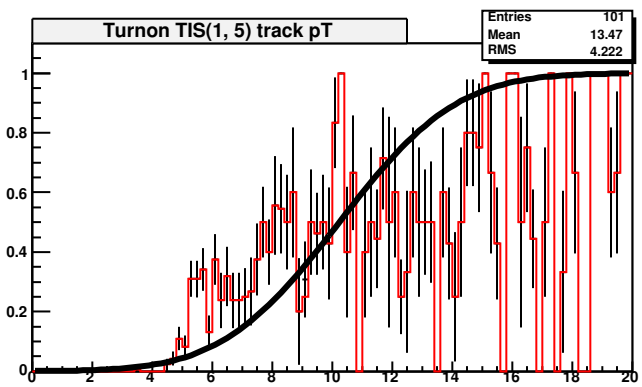


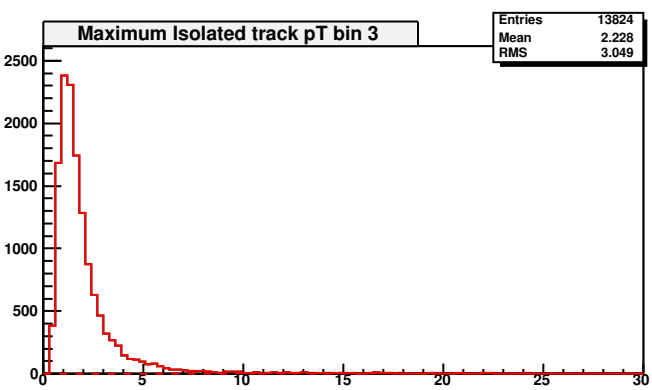


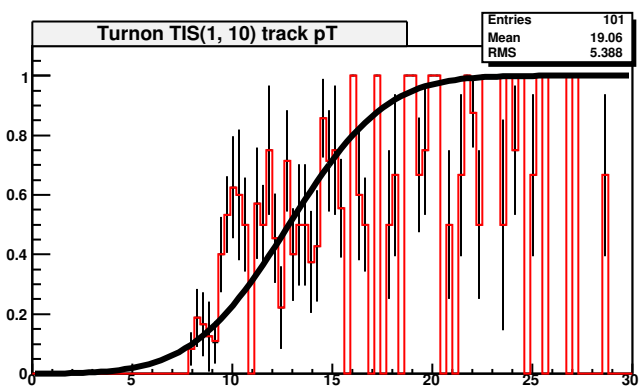




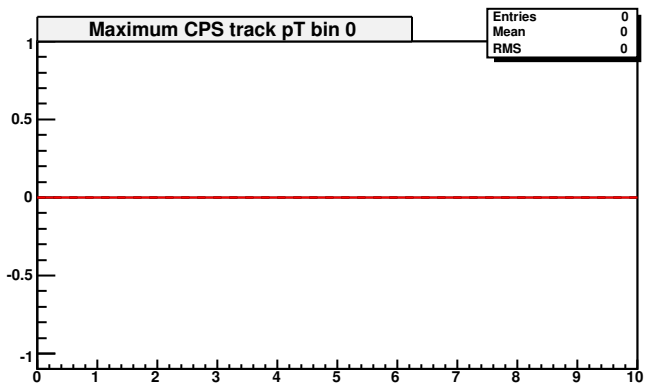


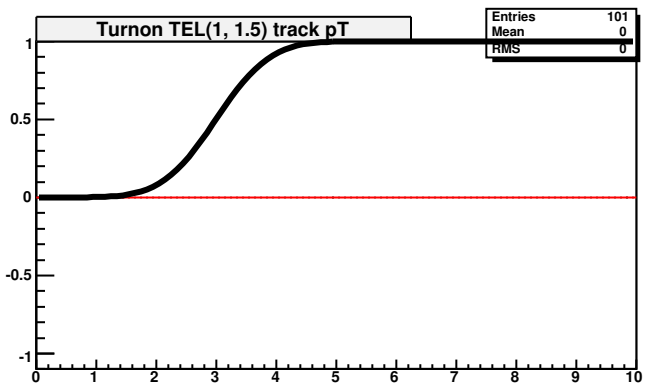


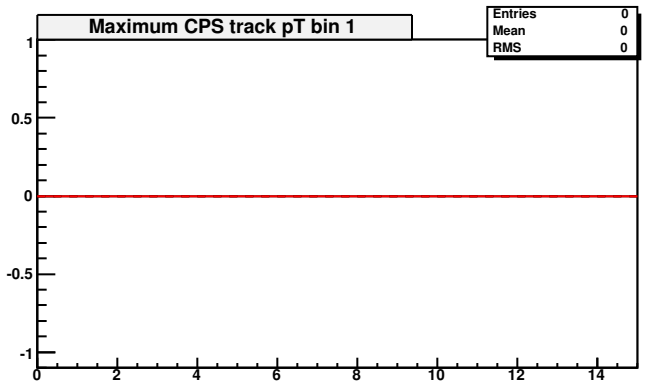


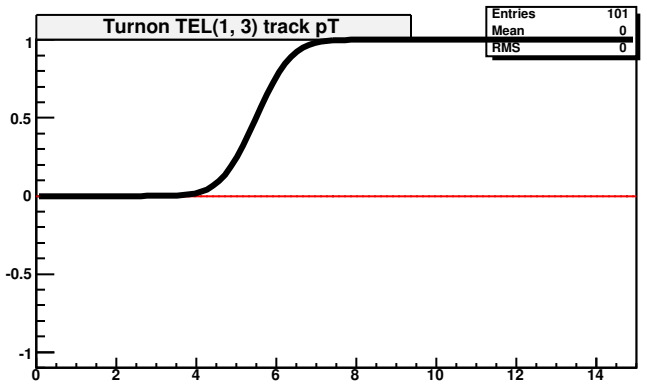


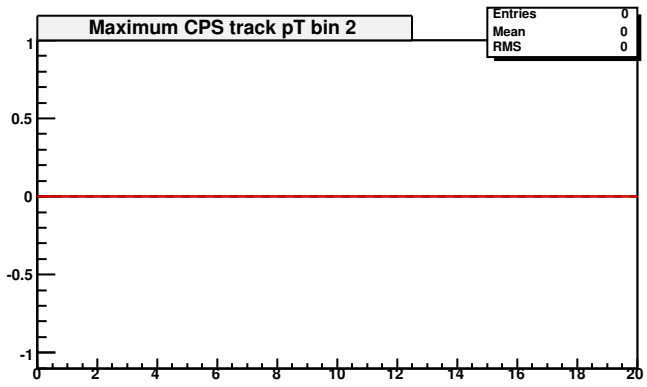
TIS Turnon curves (L1CTT All)

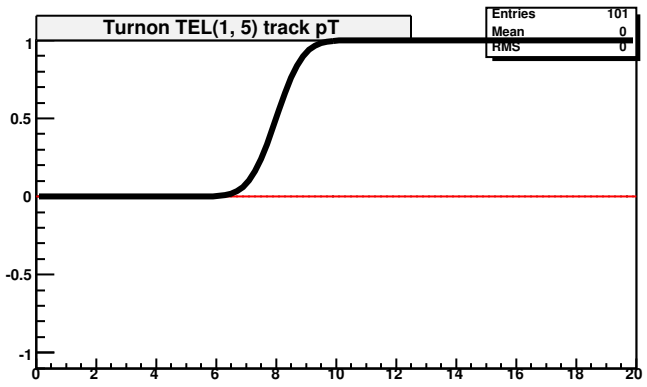


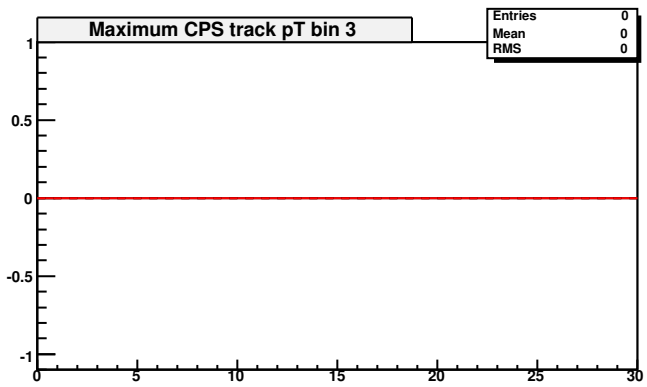


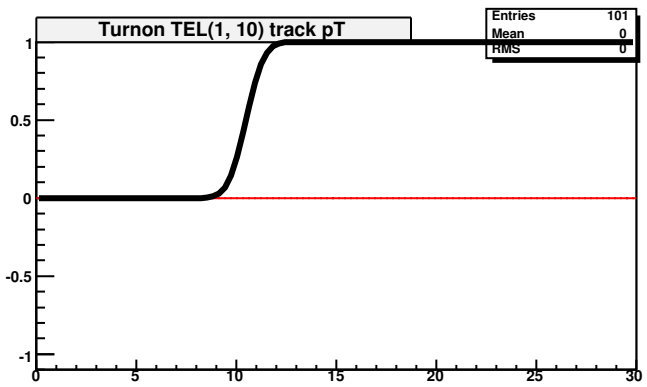




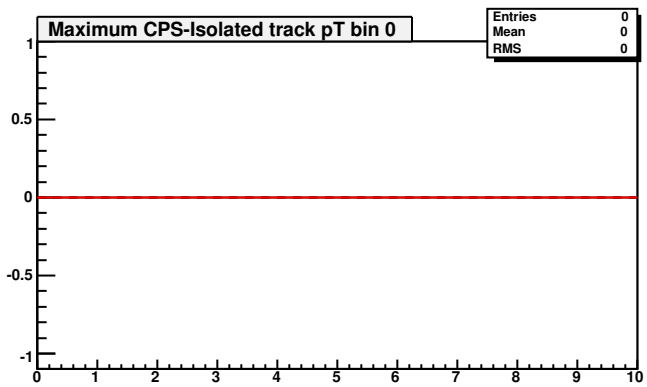


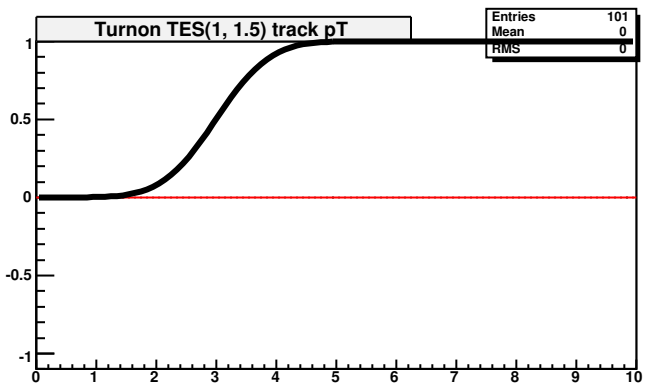


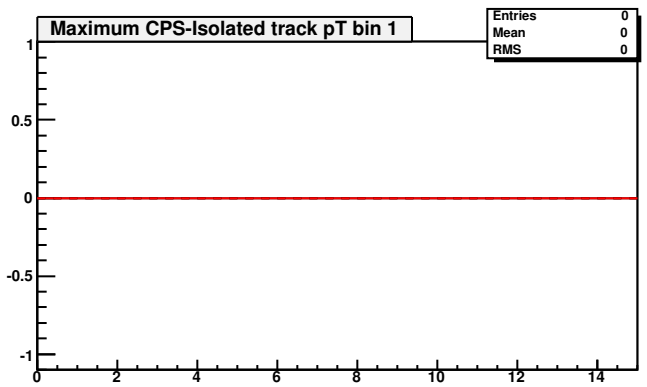


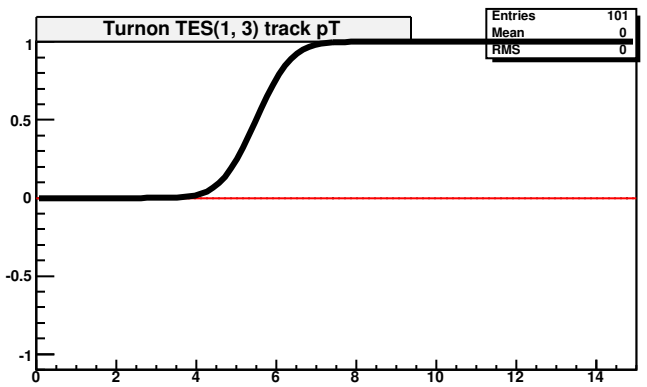


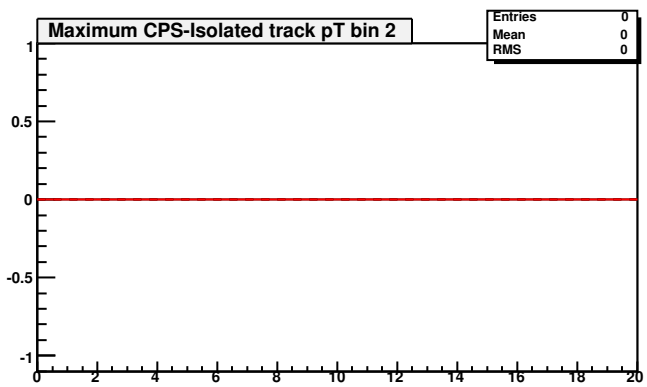
TEL Turnon curves (L1CTT All)

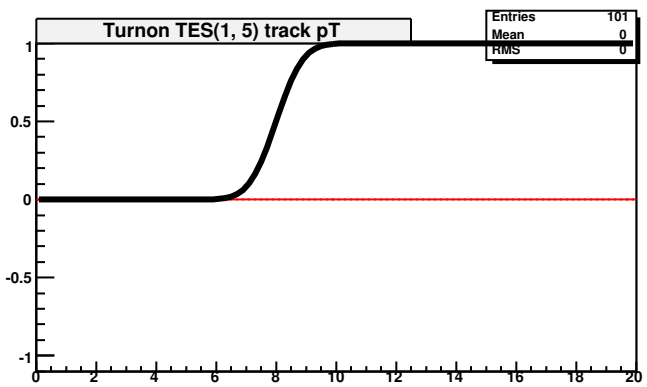


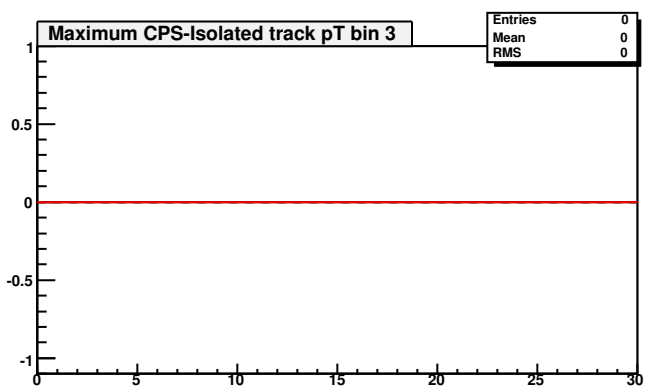


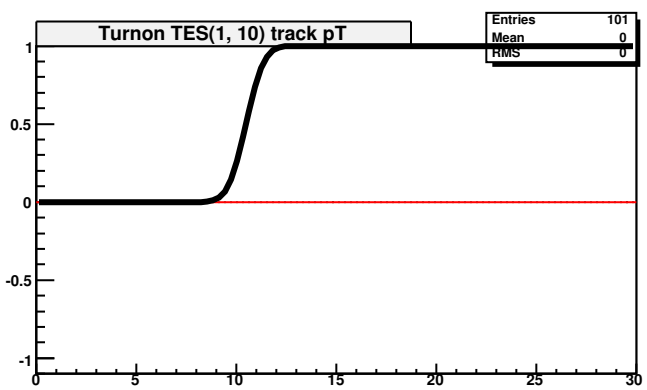




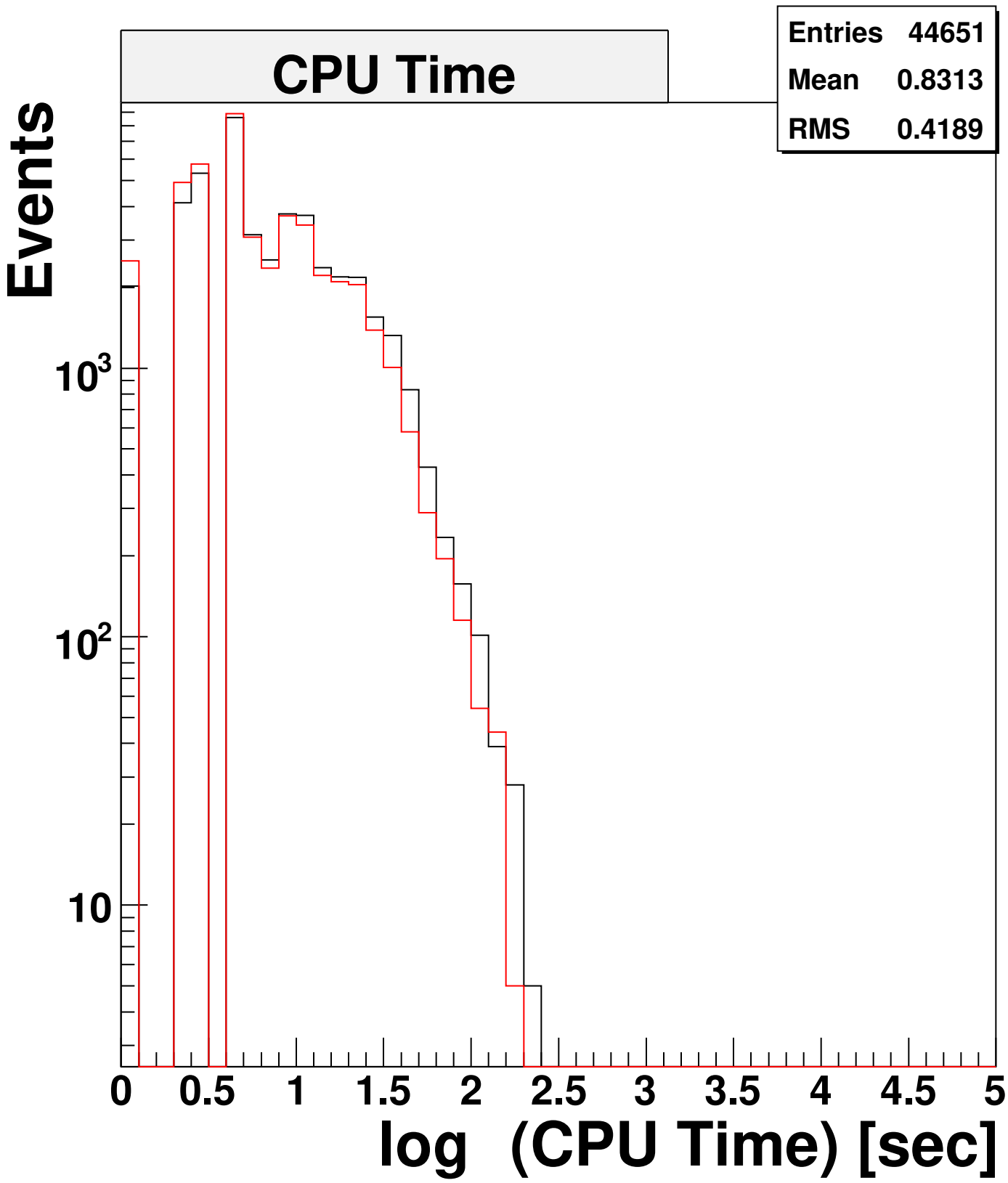








TES Turnon curves (L1CTT All)



RECO Performance (Timing)