dayset-2006-08-29-all_1-224656-0_certification_20070
/rooms/seminole/steele/d0farm/dayset-2006-08-29-all_

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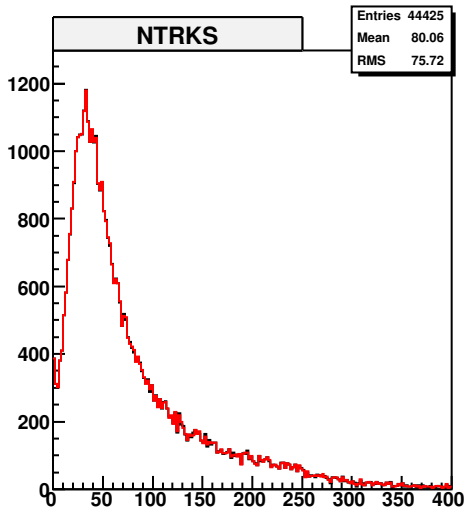
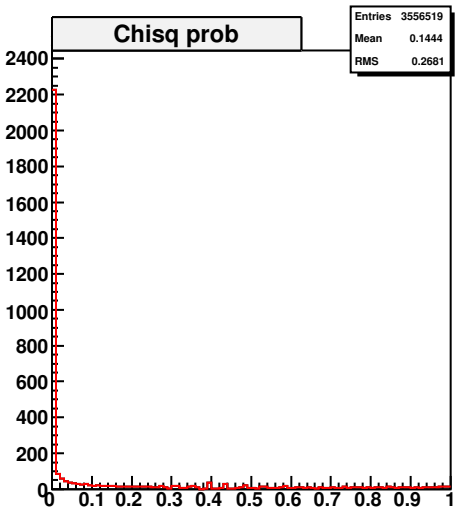
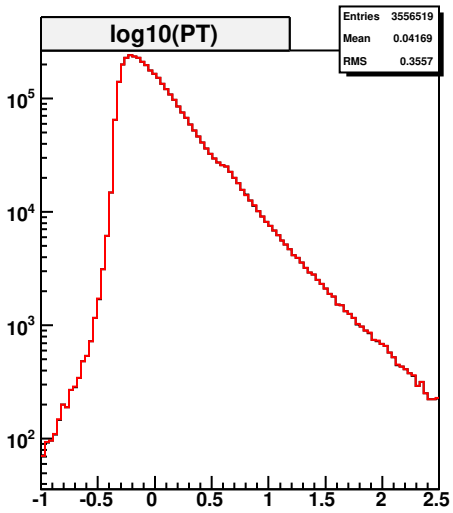
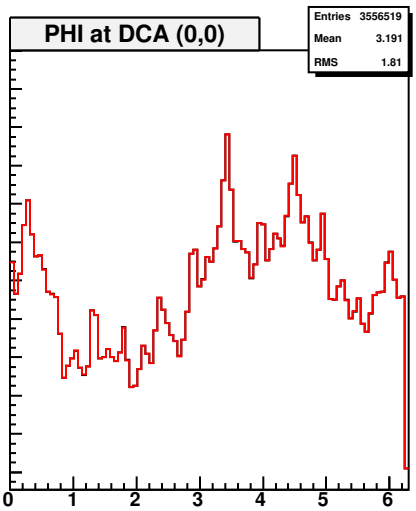
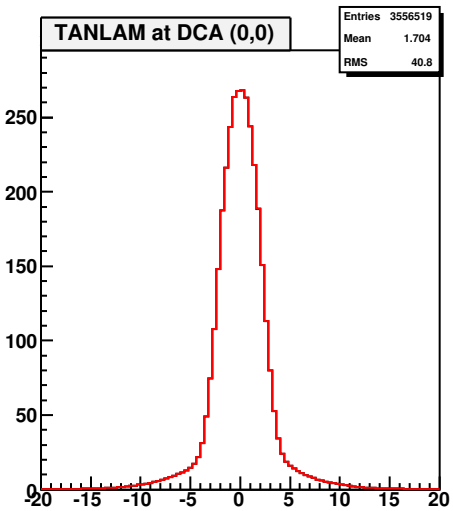
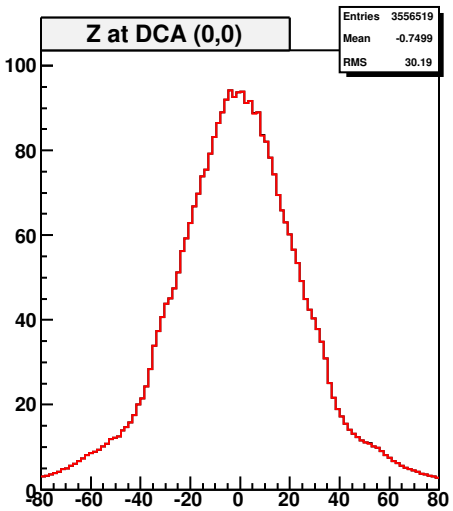

NTRKS
Entries 44425
Mean 80.06
RMS 75.72

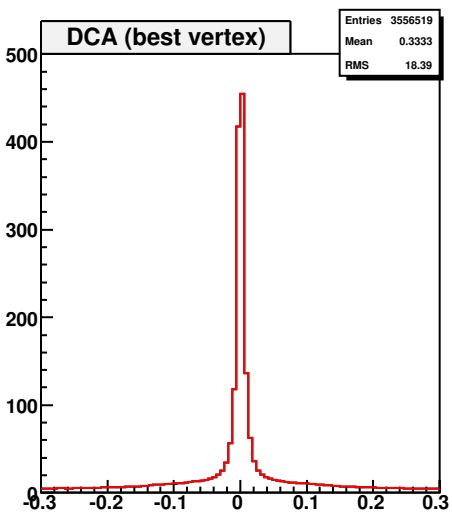

Chisq prob
Entries 3556519
Mean 0.1444
RMS 0.2681

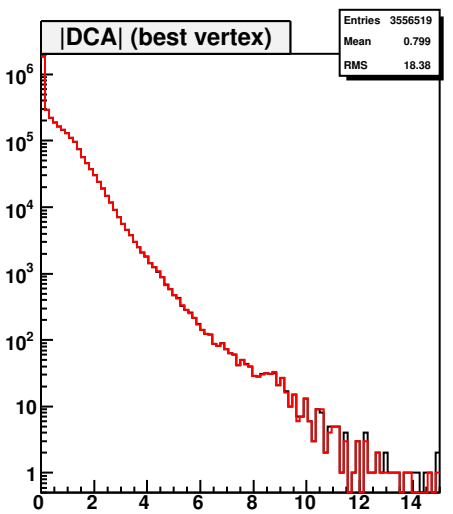

log10(PT)
Entries 3556519
Mean 0.04169
RMS 0.3557

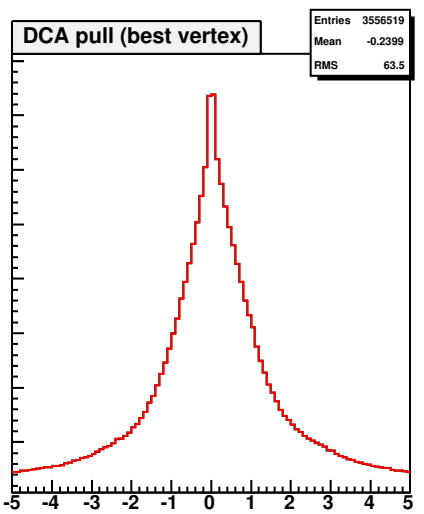

PHI at DCA (0,0)
Entries 3556519
Mean 3.191
RMS 1.81


TANLAM at DCA (0,0)
Entries 3556519
Mean 1.704
RMS 40.8

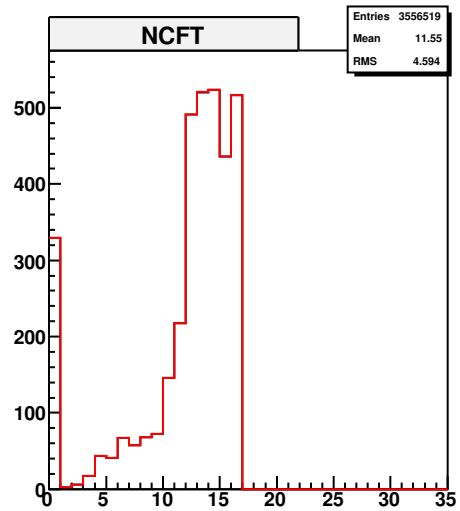

Z at DCA (0,0)
Entries 3556519
Mean -0.7499
RMS 30.19

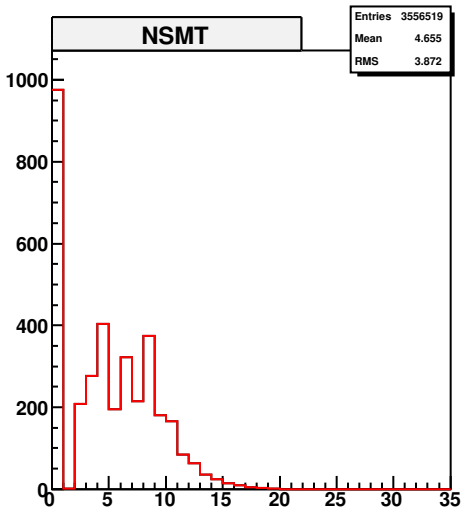

DCA (best vertex)
Entries 3556519
Mean 0.3333
RMS 18.39

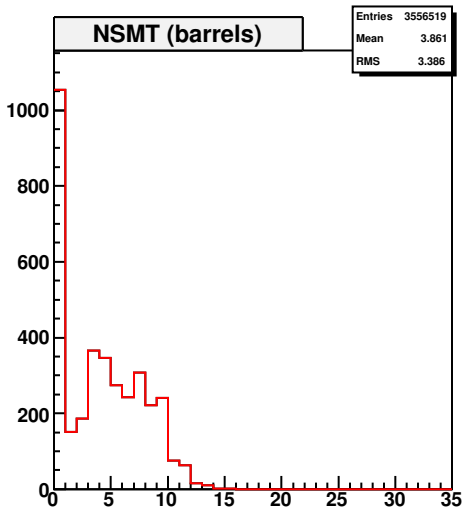

|DCA| (best vertex)
Entries 3556519
Mean 0.799
RMS 18.38

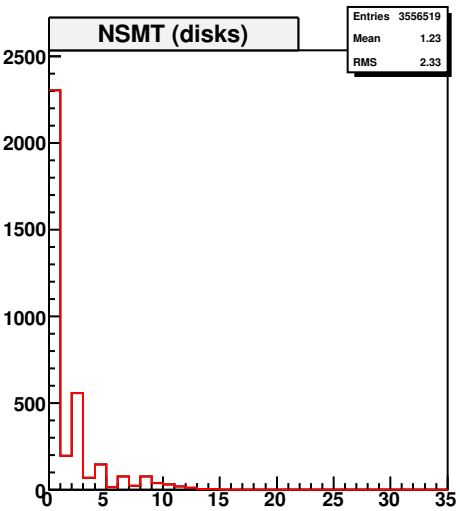

DCA pull (best vertex)
Entries 3556519
Mean -0.2399
RMS 63.5

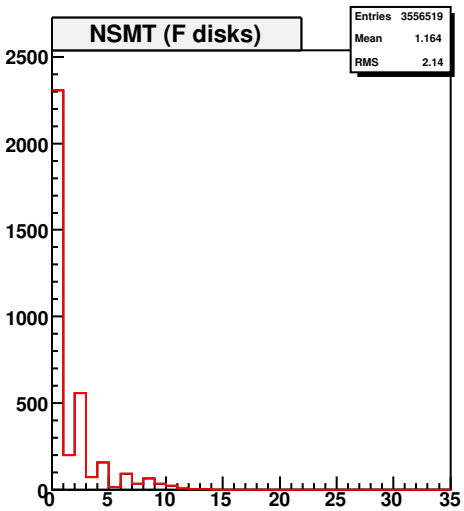
Tracks (All)

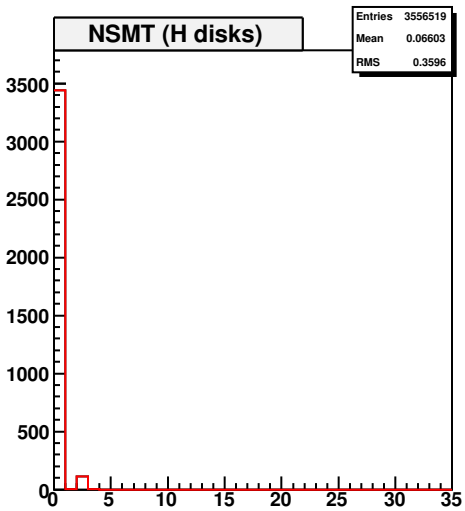


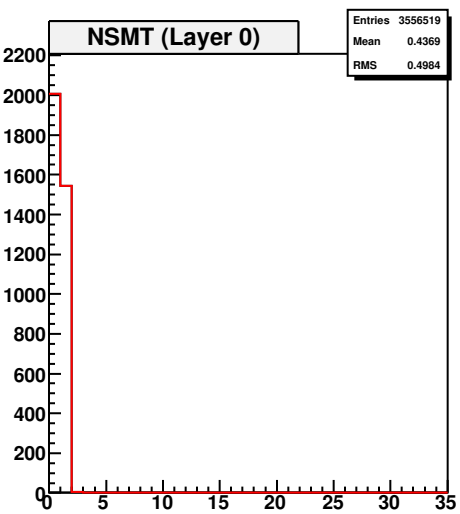




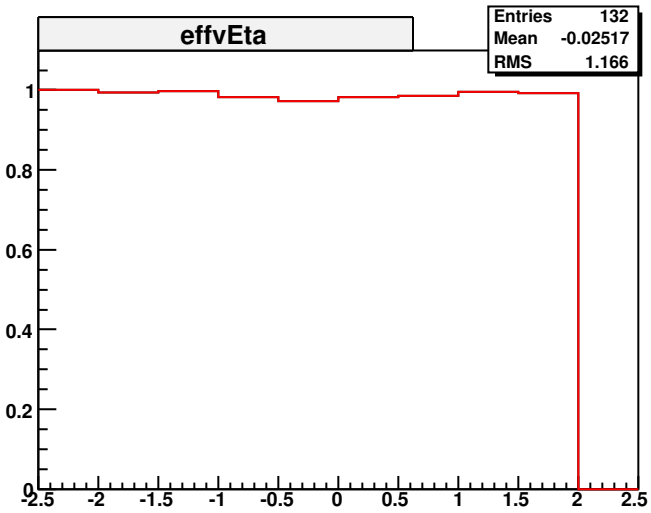


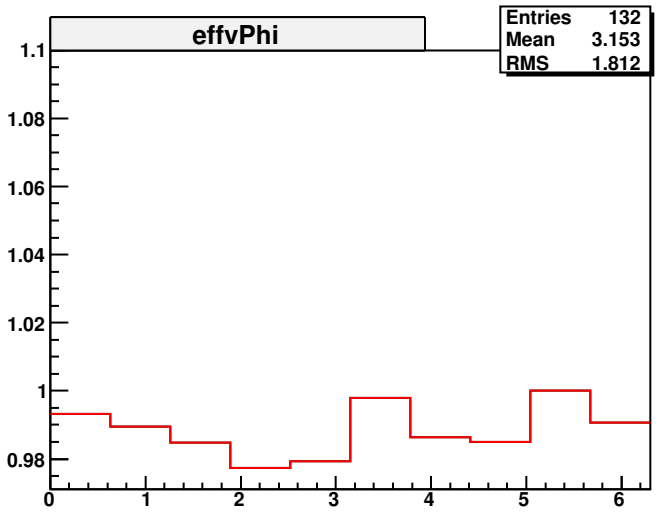


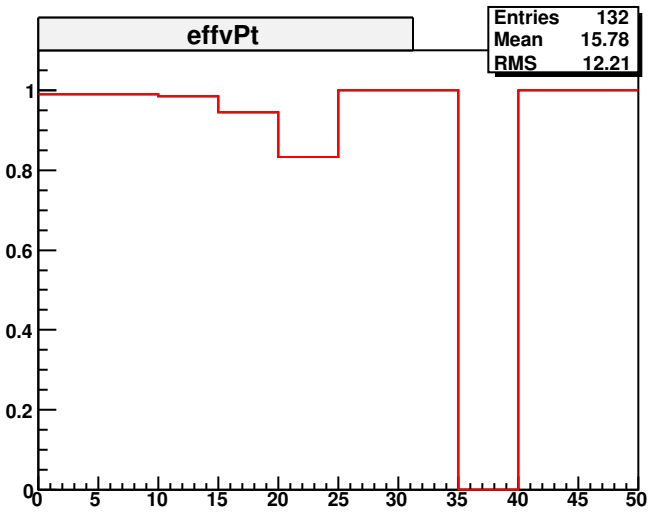


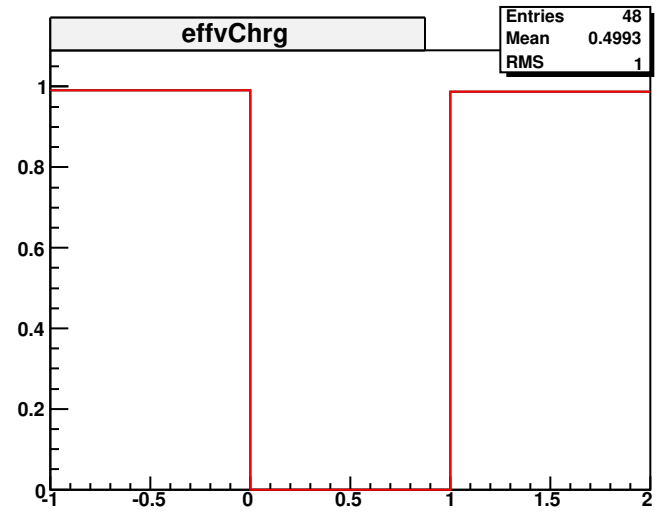


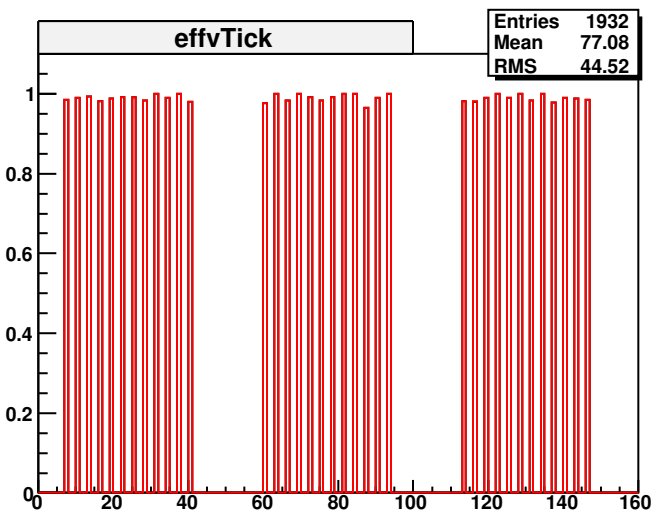
Track Hits (All)

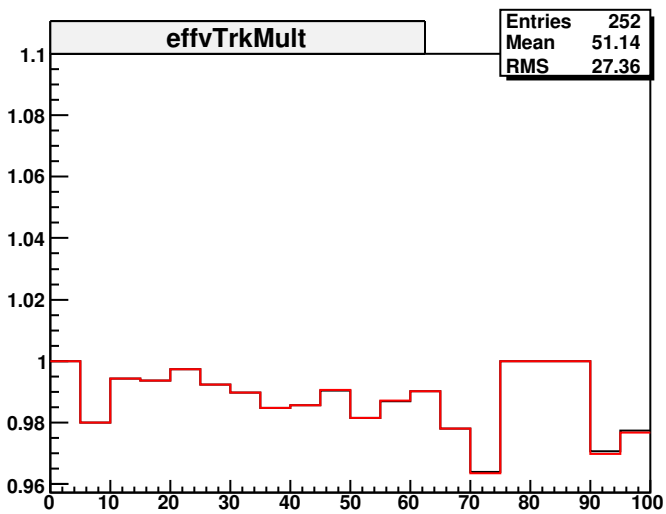




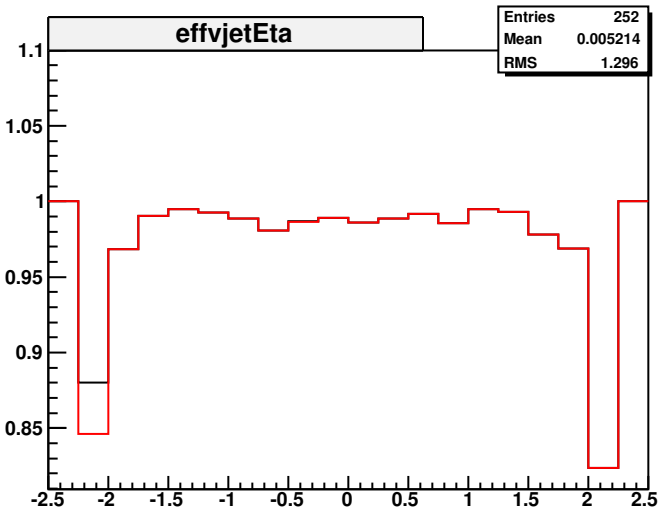


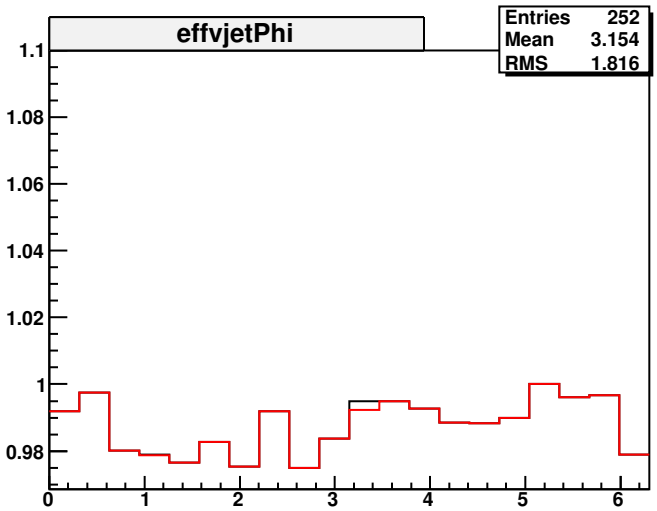


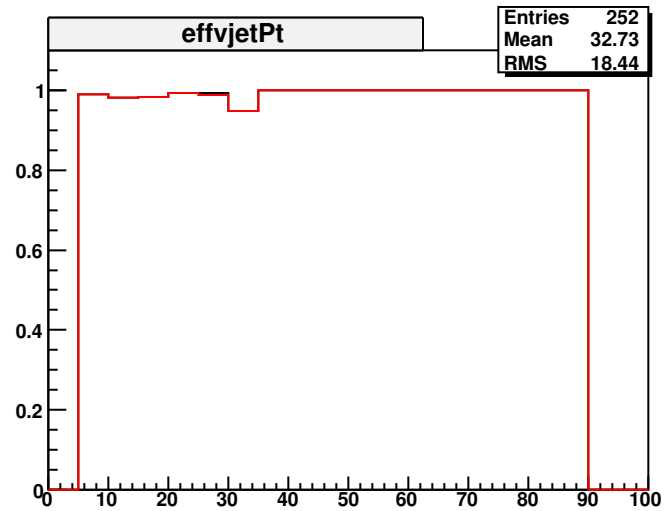




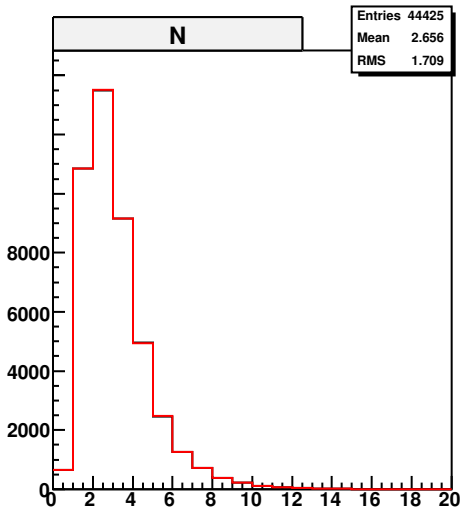
Tracking (Efficiency-Isolated)

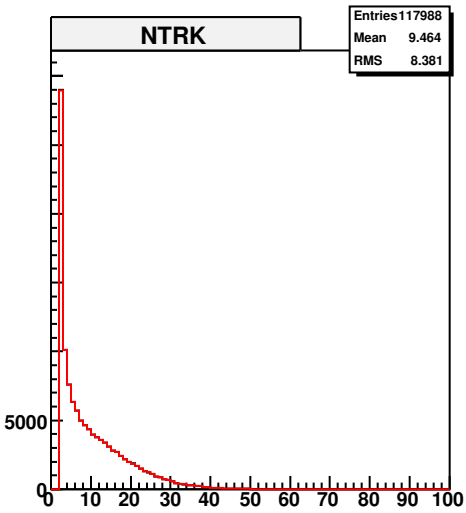


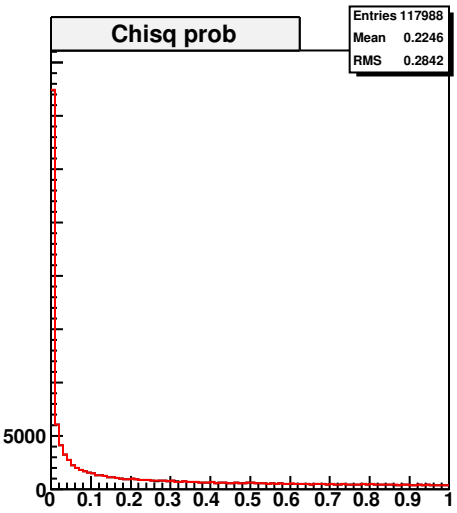


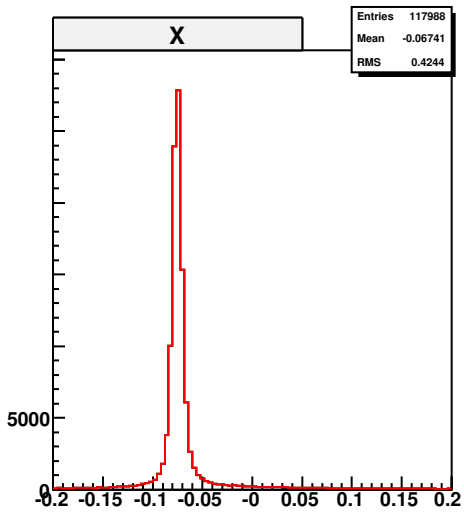


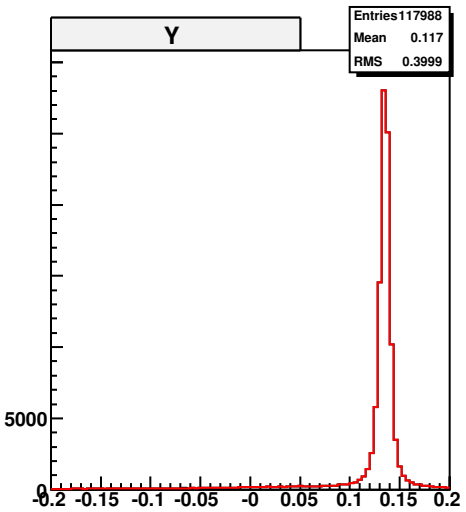
Tracking (Efficiency-InJets)

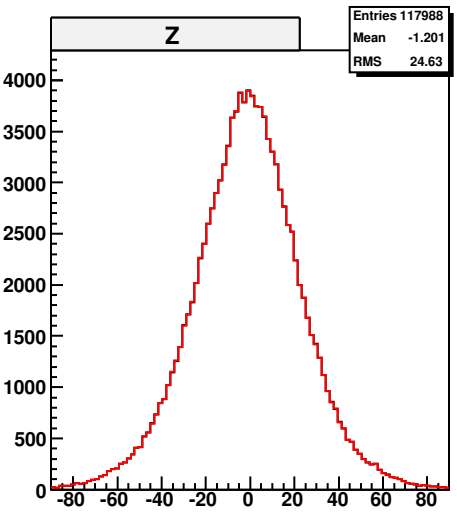




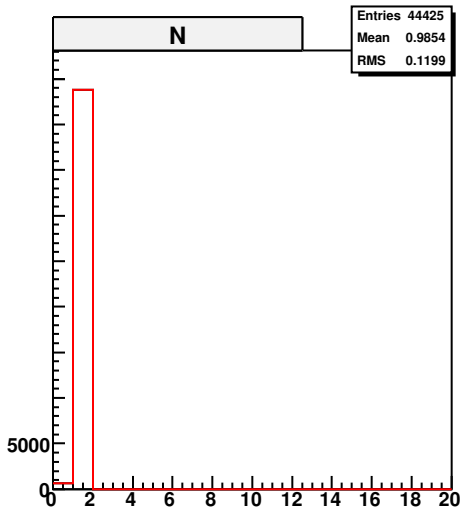


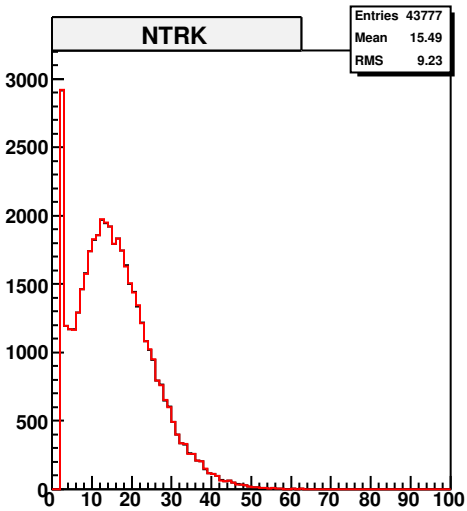


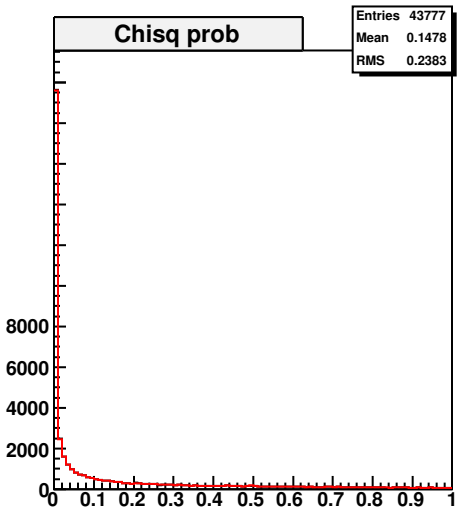


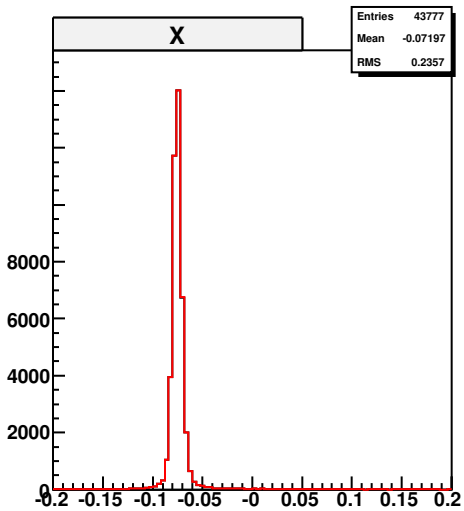


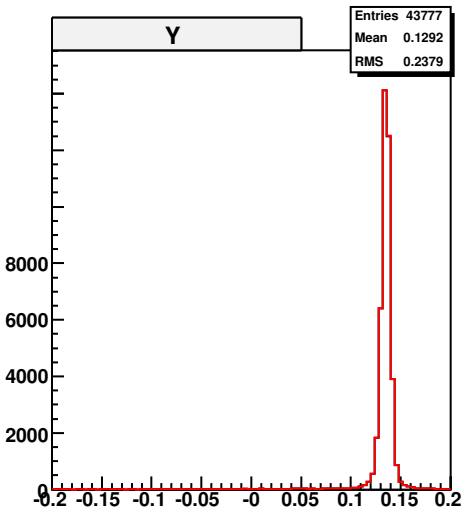
Vertices (Primary - all candidates)

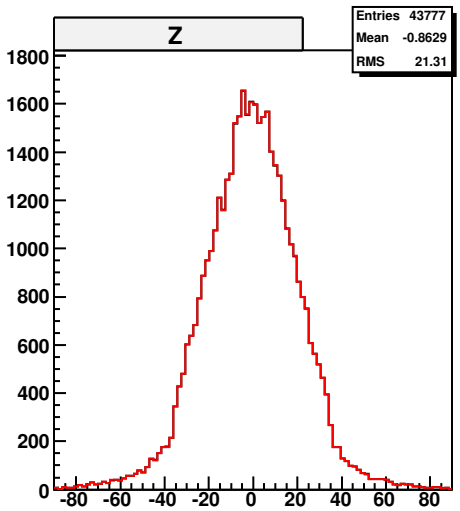




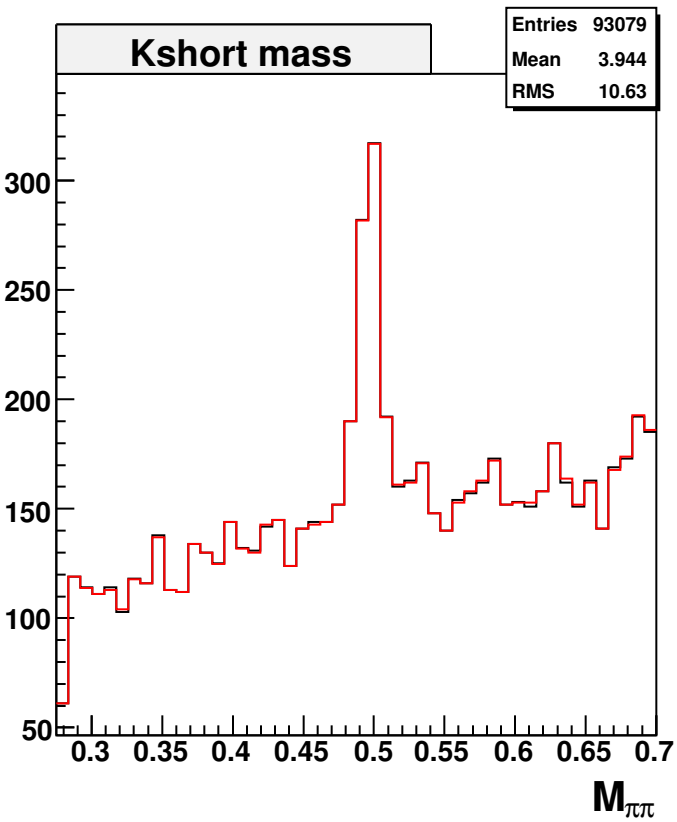


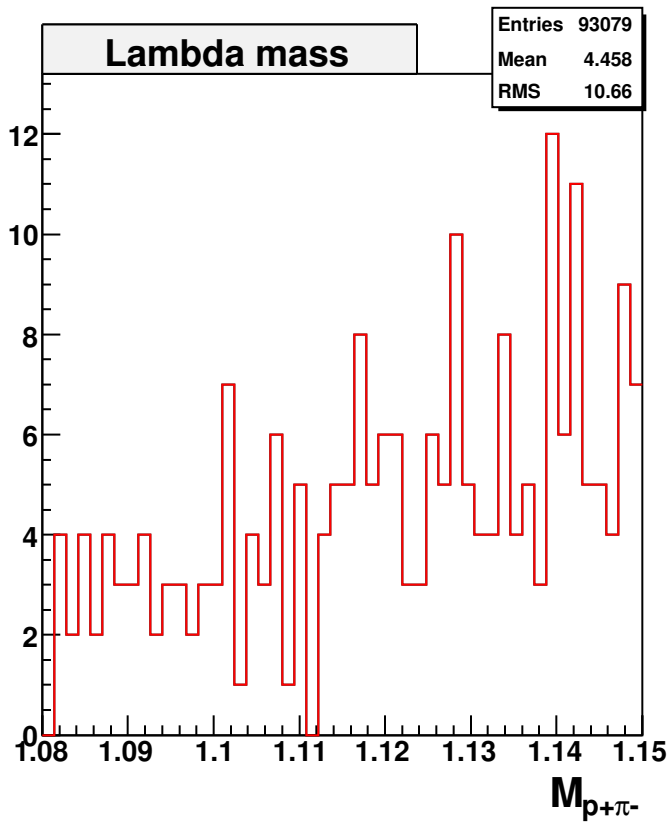


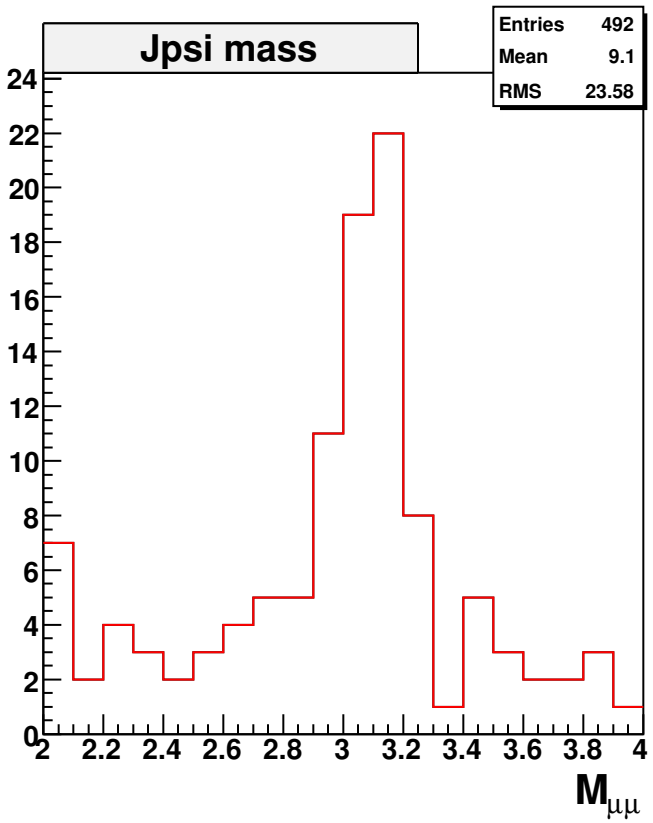


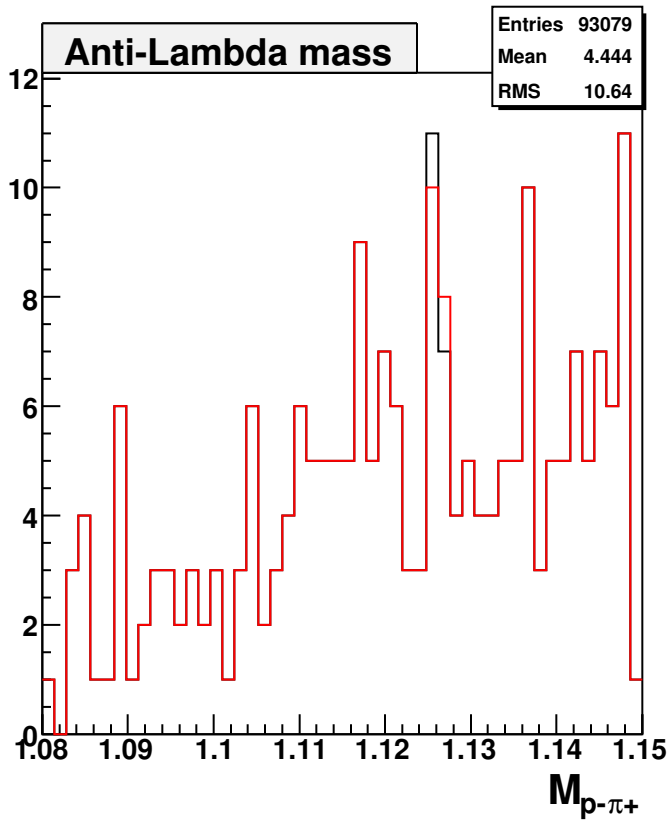


Vertices (Primary - best)

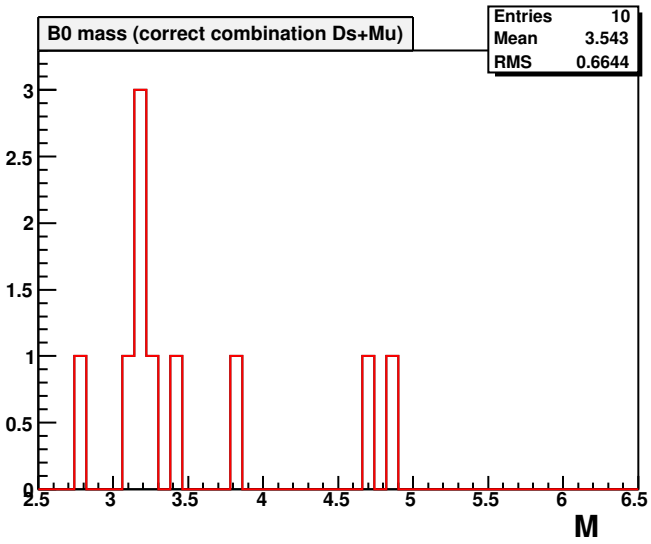

Kshort mass
Entries 93079
Mean 3.944
RMS 10.63
300
250
200
150
100
50
0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7
$M_{\pi\pi}$

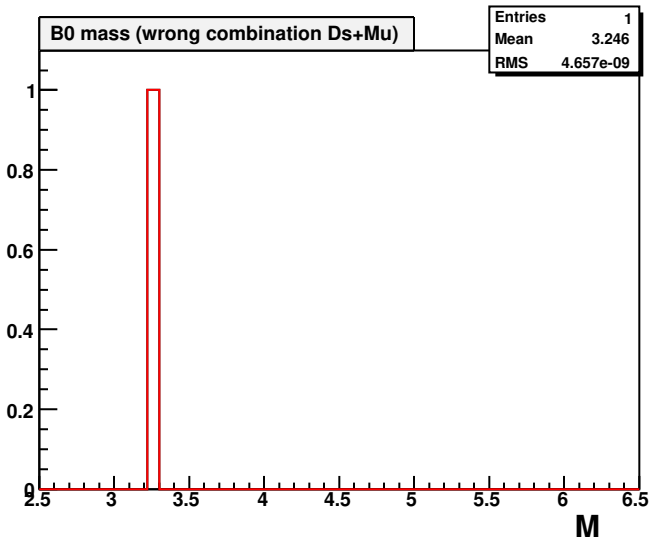

Lambda mass
Entries 93079
Mean 4.458
RMS 10.66
12
10
8
6
4
2
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p+\pi-}$

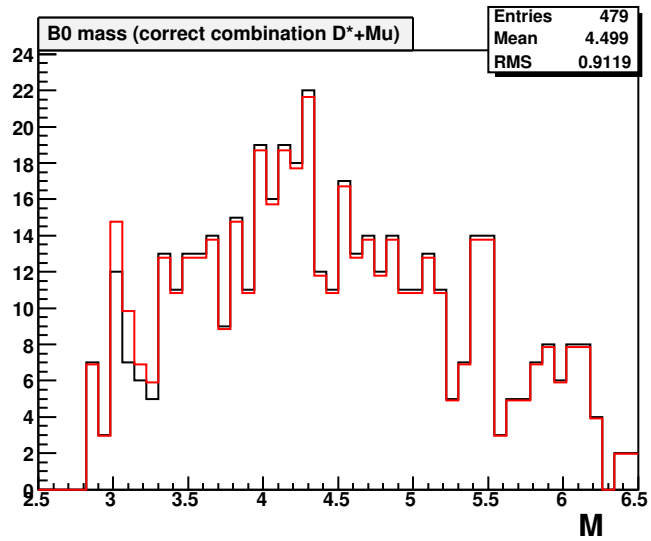

Jpsi mass
Entries 492
Mean 9.1
RMS 23.58
24
22
20
18
16
14
12
10
8
6
4
2
0
2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4
$M_{\mu\mu}$

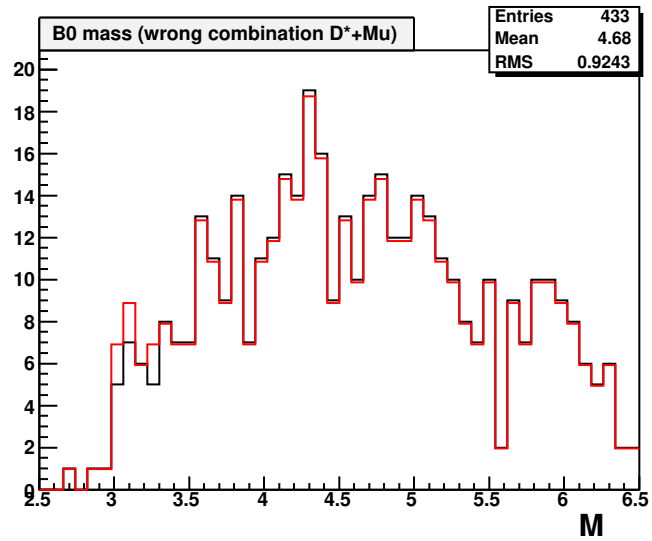

Anti-Lambda mass
Entries 93079
Mean 4.444
RMS 10.64
12
10
8
6
4
2
0
1.08 1.09 1.1 1.11 1.12 1.13 1.14 1.15
$M_{p-\pi+}$

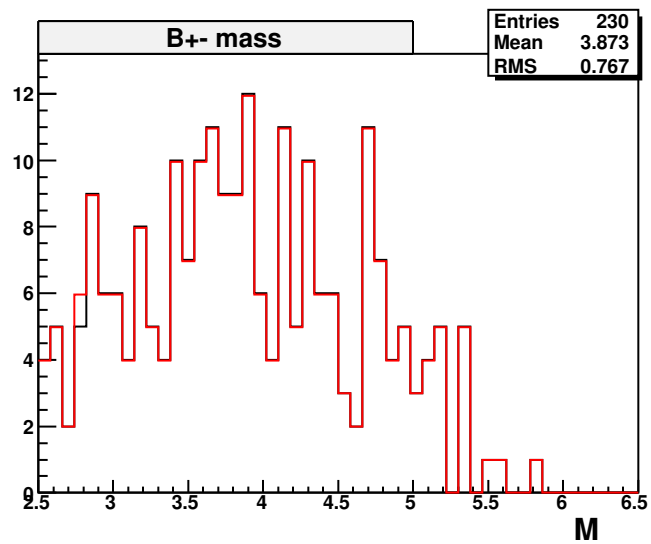
V0 (All)



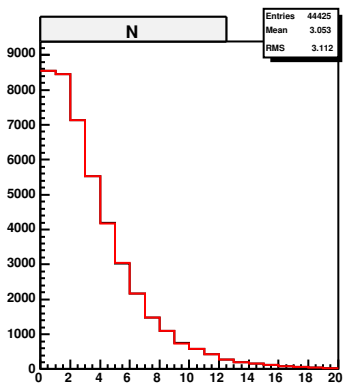


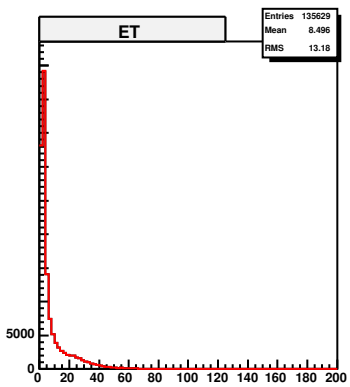


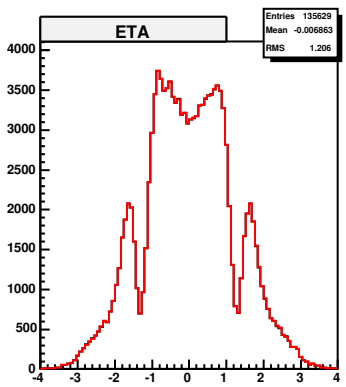


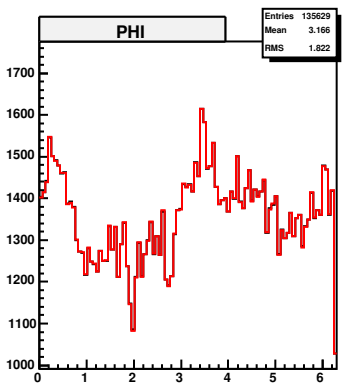


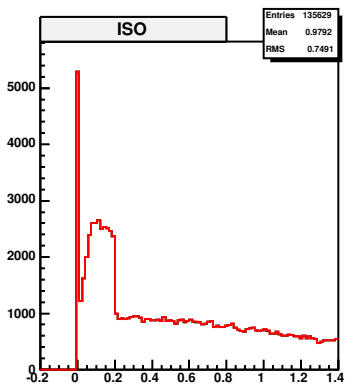
V0(B mesons) (All)

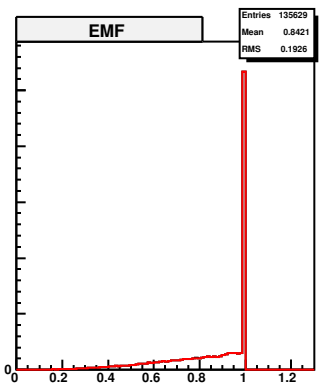


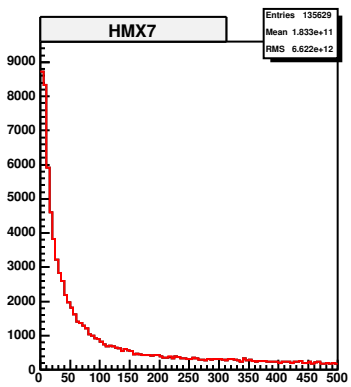


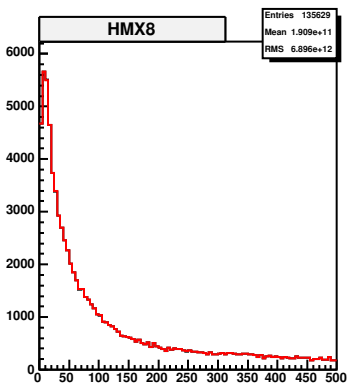


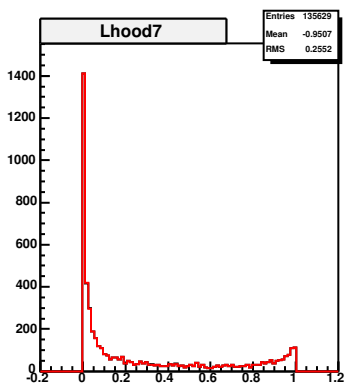


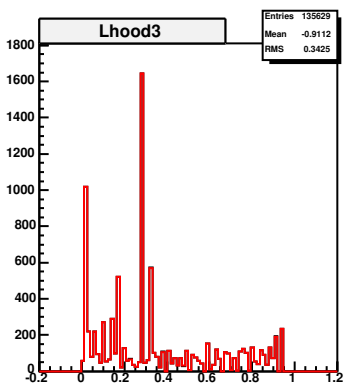


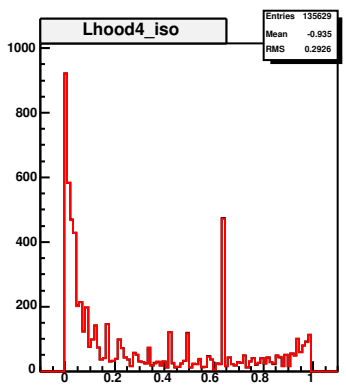


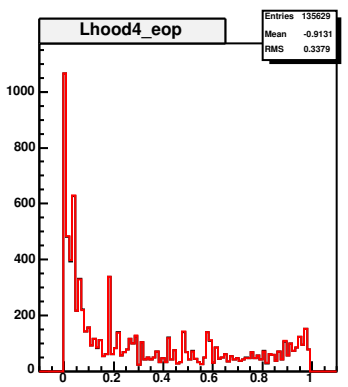


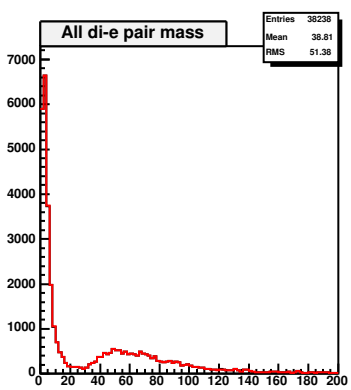


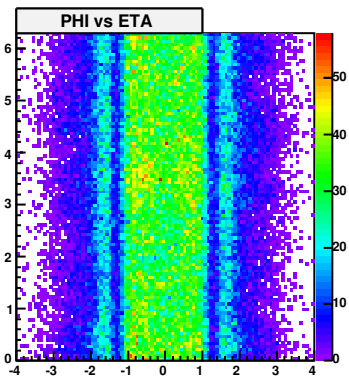


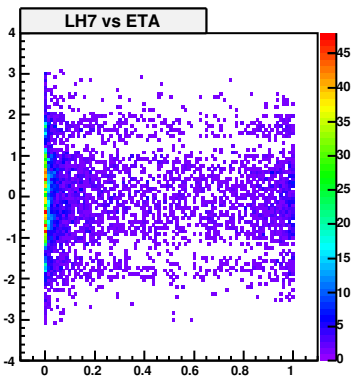


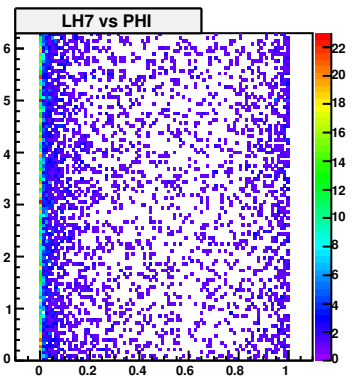




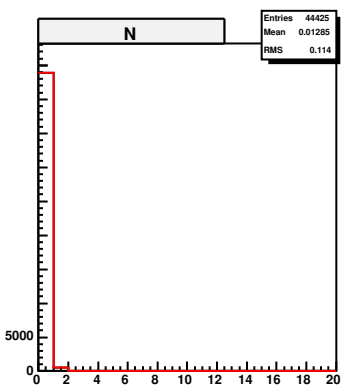


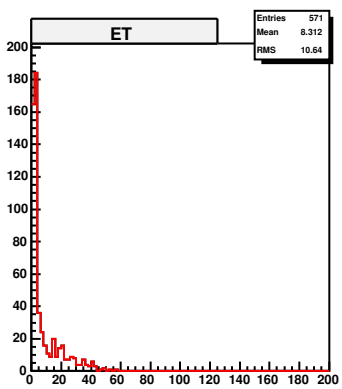


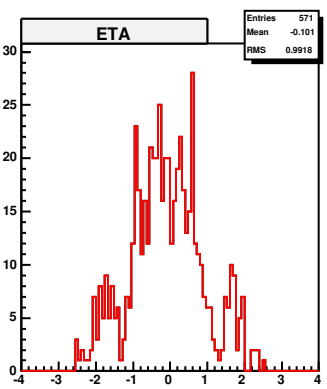


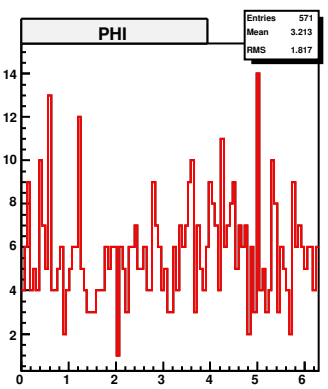


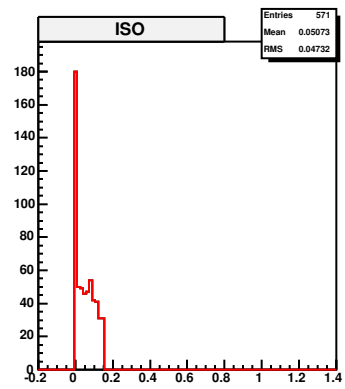
Electrons (SCONE All)

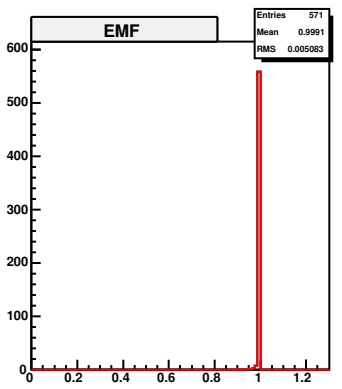


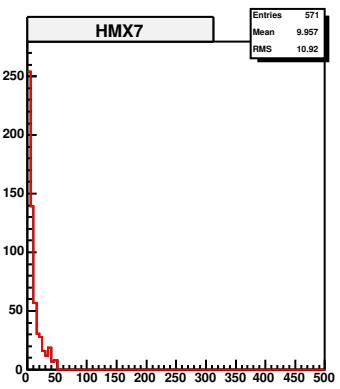


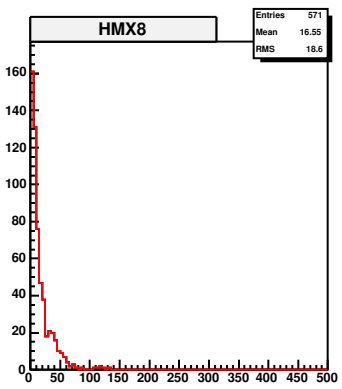


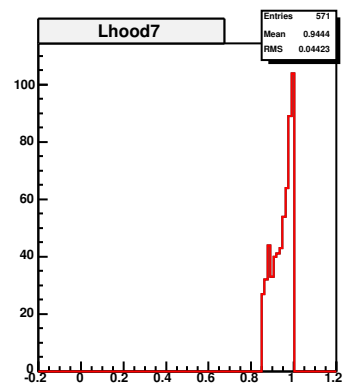


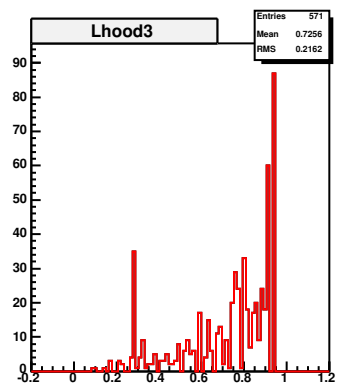


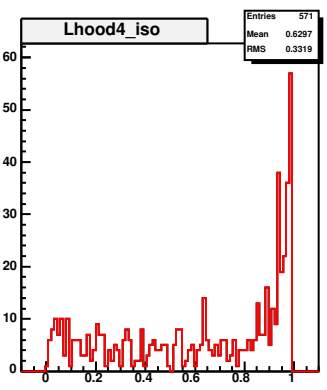


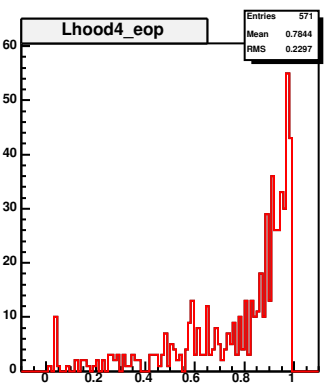


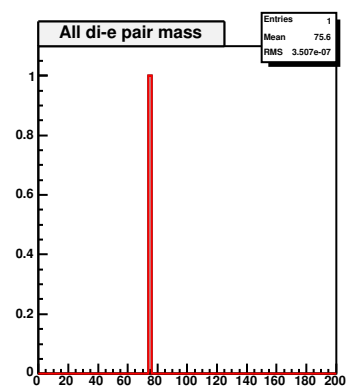


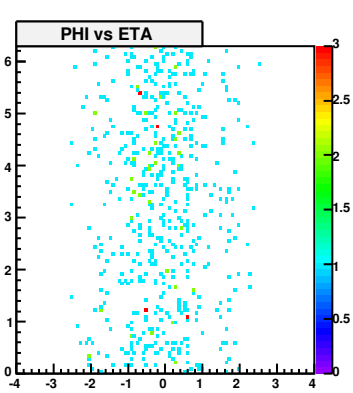


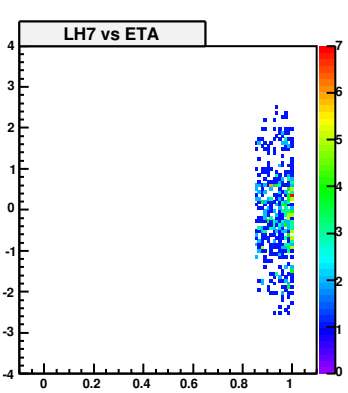


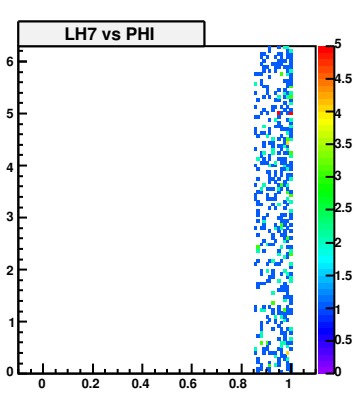




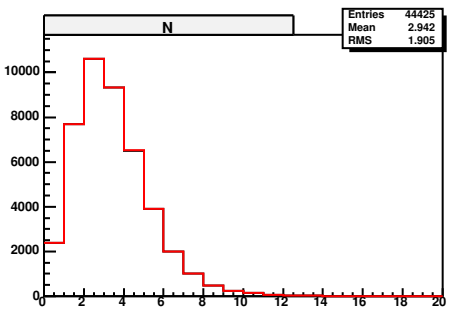


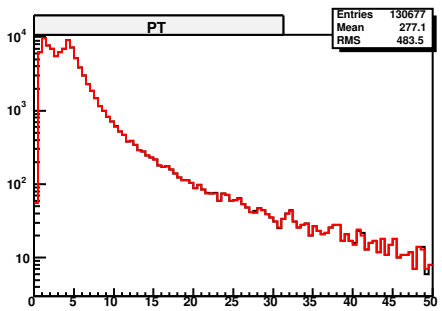


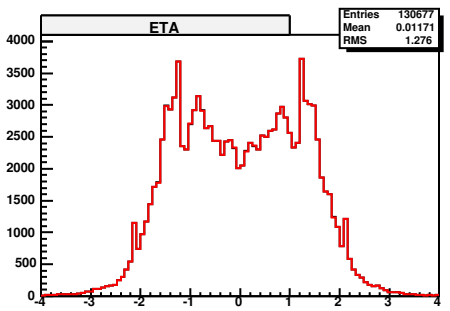


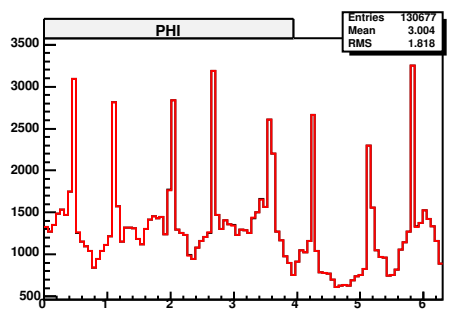


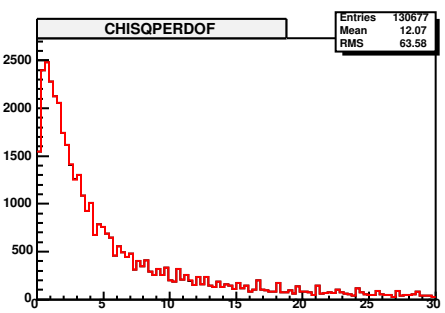
Electrons (SCONE Tight)

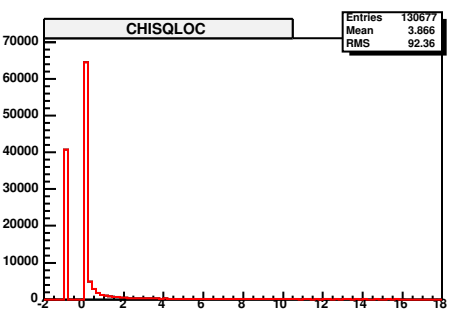

N
Entries 44425
Mean 2.942
RMS 1.905

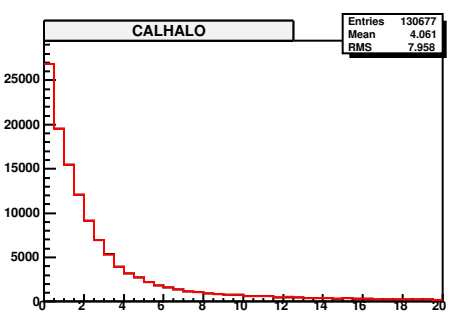

PT
Entries 130677
Mean 277.1
RMS 483.5

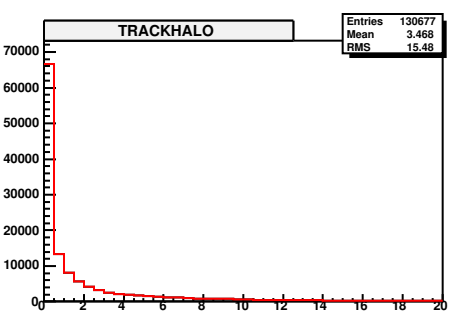

ETA
Entries 130677
Mean 0.01171
RMS 1.276

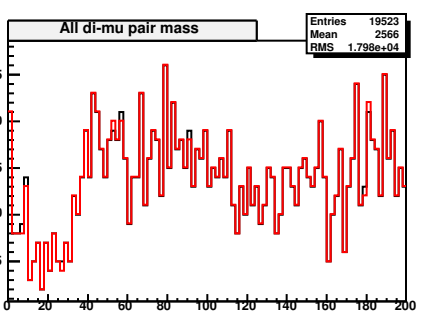

PHI
Entries 130677
Mean 3.004
RMS 1.818

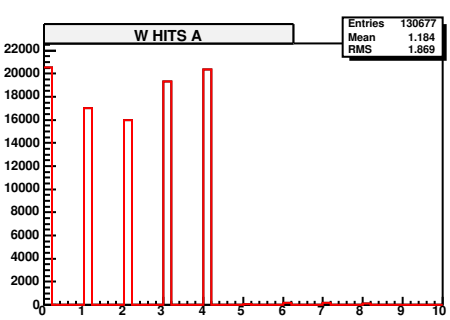

CHISQPERDOF
Entries 130677
Mean 12.07
RMS 63.58

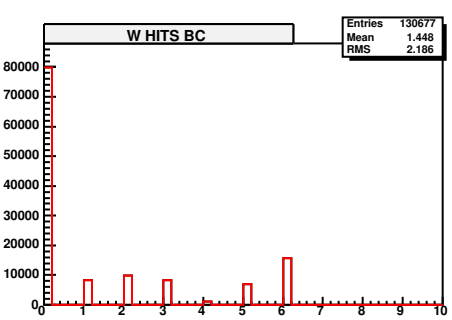

CHISQLOC
Entries 130677
Mean 3.866
RMS 92.36

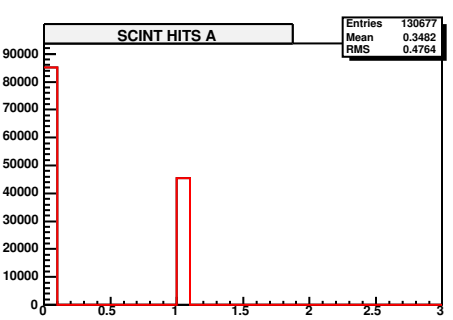

CALHALO
Entries 130677
Mean 4.061
RMS 7.958

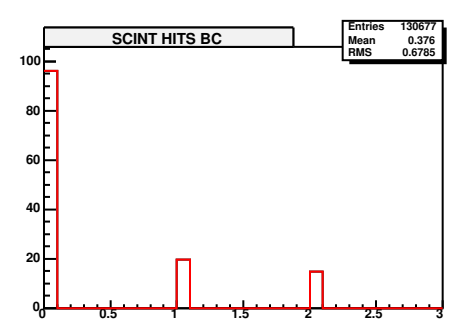

TRACKHALO
Entries 130677
Mean 3.468
RMS 15.48


All di-mu pair mass
Entries 19523
Mean 2566
RMS 1.798e+04

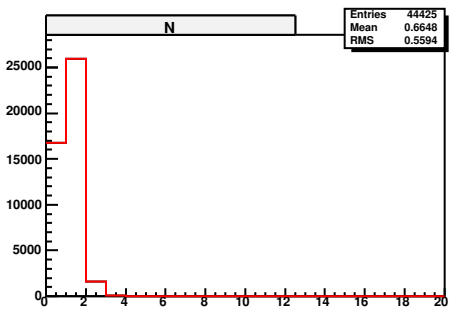

W HITS A
Entries 130677
Mean 1.184
RMS 1.869

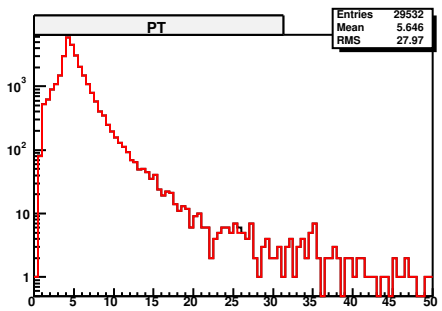

W HITS BC
Entries 130677
Mean 1.448
RMS 2.186

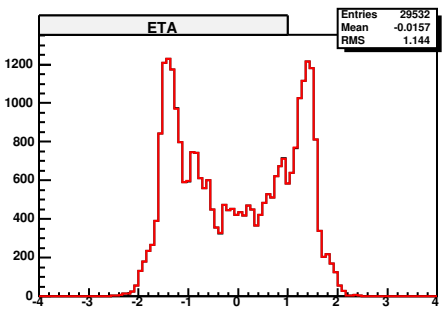

SCINT HITS A
Entries 130677
Mean 0.3482
RMS 0.4764

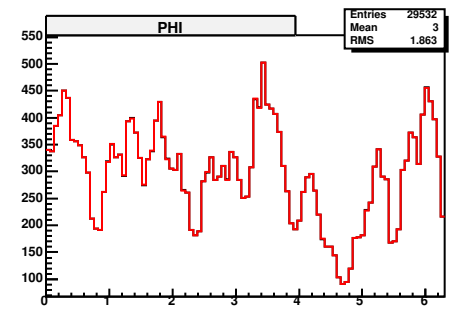

SCINT HITS BC
Entries 130677
Mean 0.376
RMS 0.6785

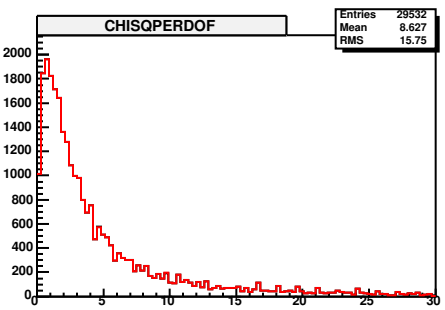
Muons (All)

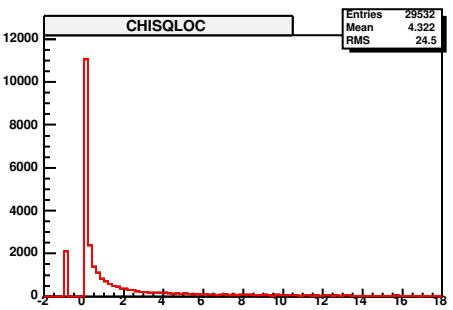


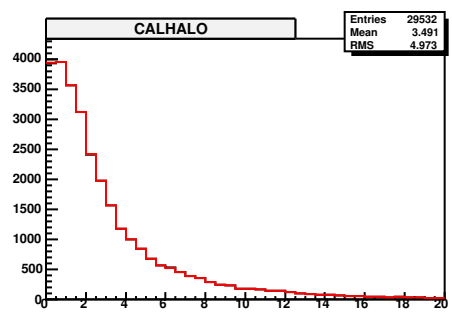


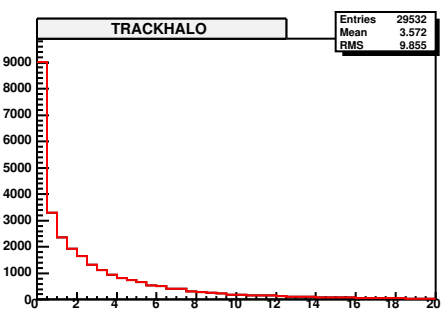


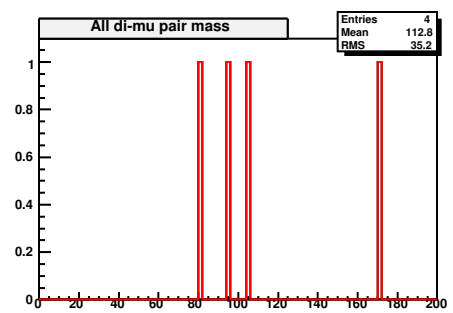


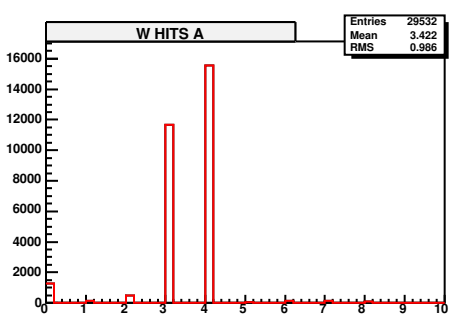


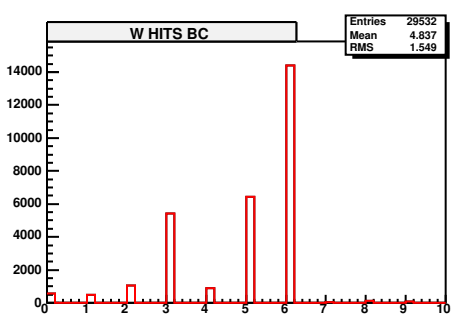


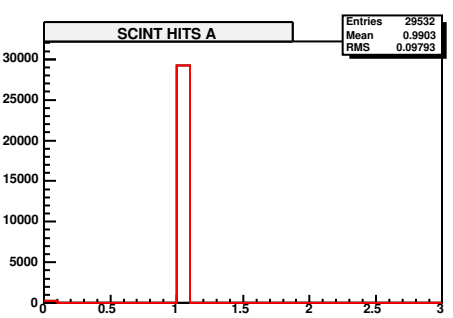


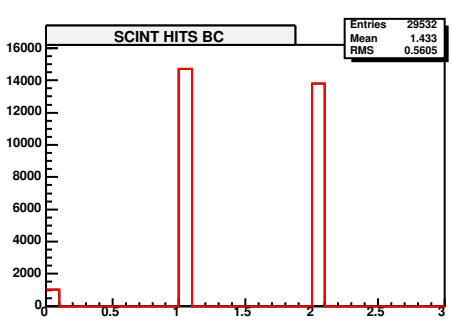




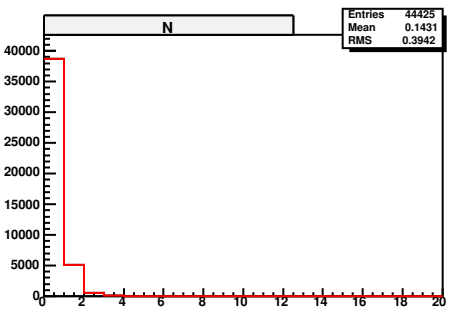


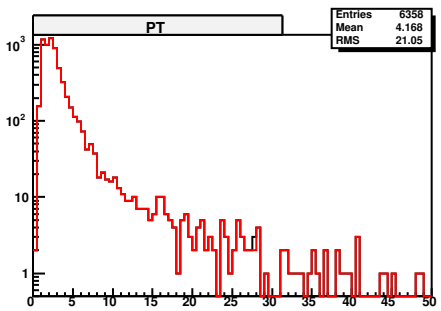


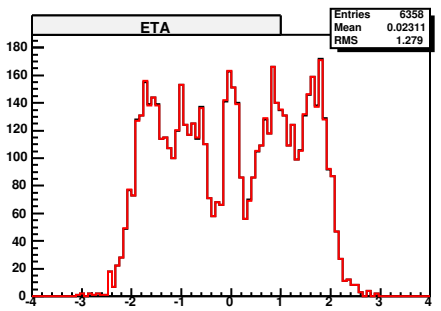


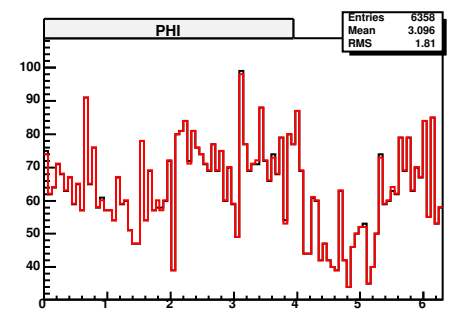


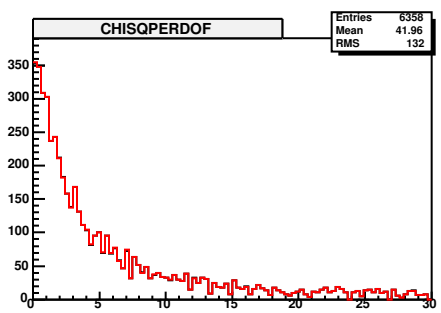
Muons (Matched)

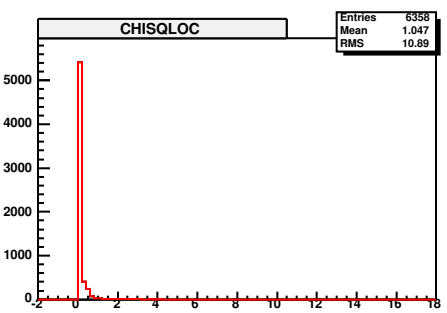

N
Entries 44425
Mean 0.1431
RMS 0.3942

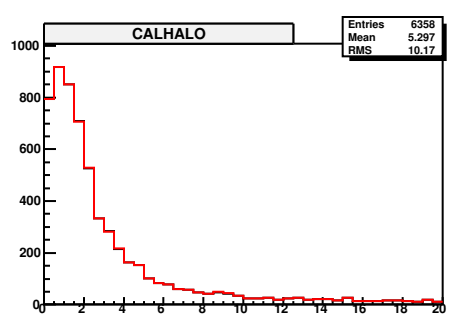

PT
Entries 6358
Mean 4.168
RMS 21.05

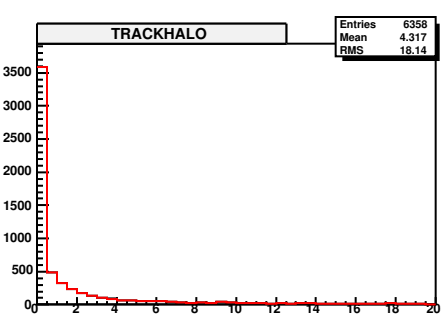

ETA
Entries 6358
Mean 0.02311
RMS 1.279

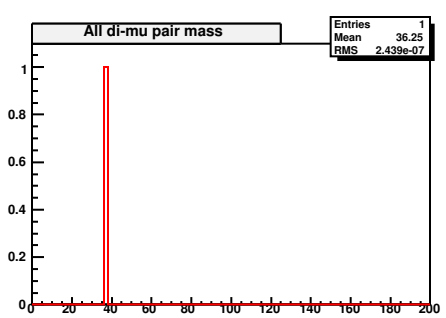

PHI
Entries 6358
Mean 3.096
RMS 1.81

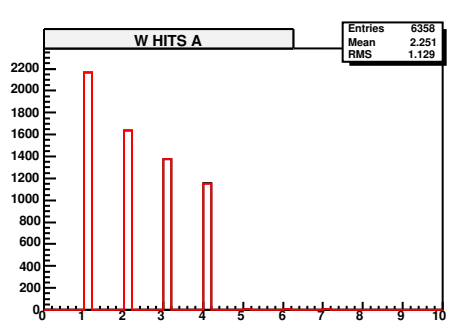

CHISQPERDOF
Entries 6358
Mean 41.96
RMS 132

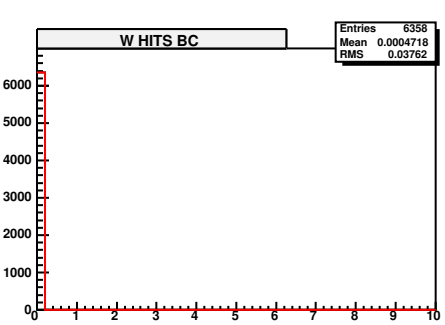

CHISQLOC
Entries 6358
Mean 1.047
RMS 10.89

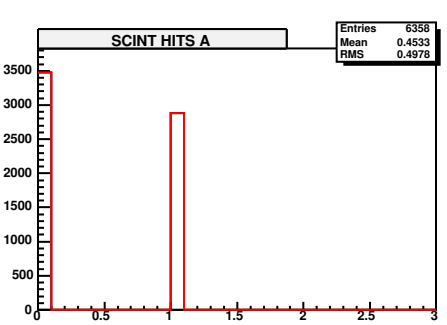

CALHALO
Entries 6358
Mean 5.297
RMS 10.17

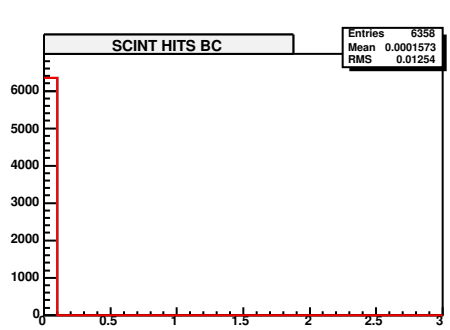

TRACKHALO
Entries 6358
Mean 4.317
RMS 18.14


All di-mu pair mass
Entries 1
Mean 36.25
RMS 2.439e-07

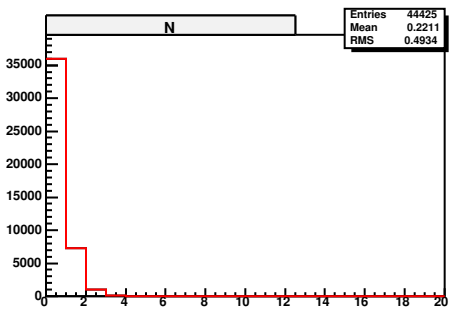

W HITS A
Entries 6358
Mean 2.251
RMS 1.129

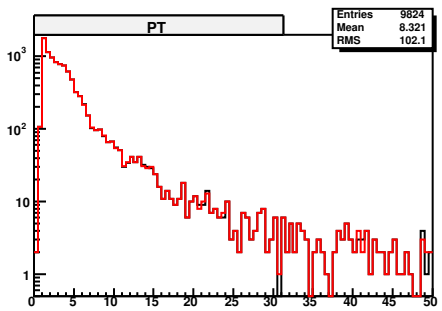

W HITS BC
Entries 6358
Mean 0.0004718
RMS 0.03762

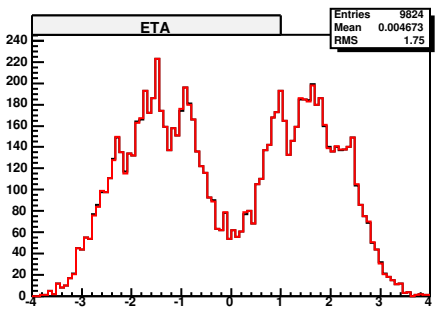

SCINT HITS A
Entries 6358
Mean 0.4533
RMS 0.4978

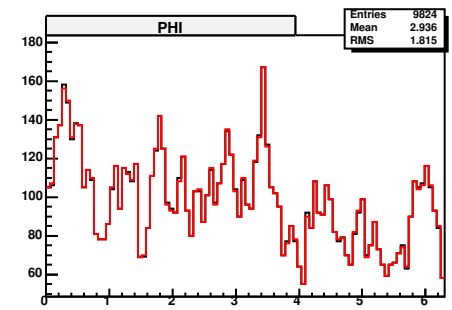

SCINT HITS BC
Entries 6358
Mean 0.0001573
RMS 0.01254

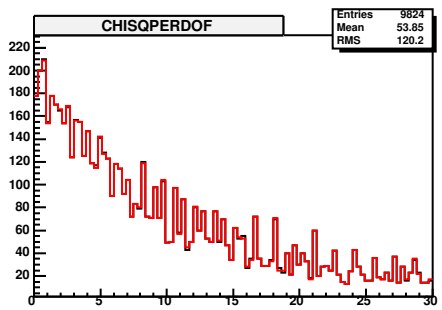
Muons (Astub)

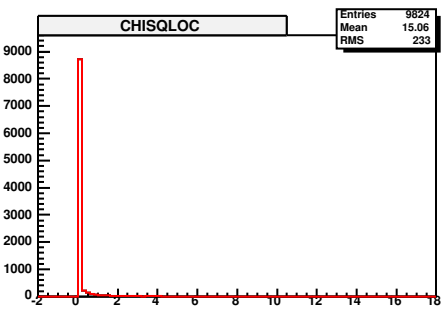


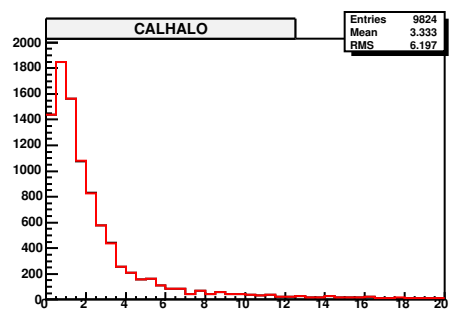


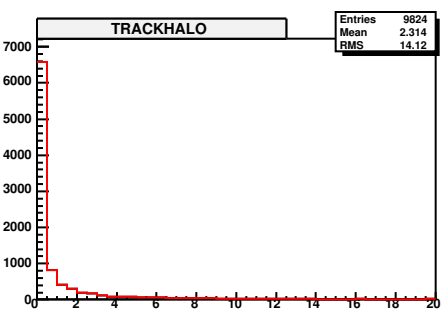


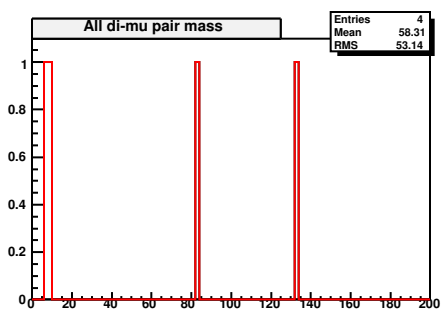


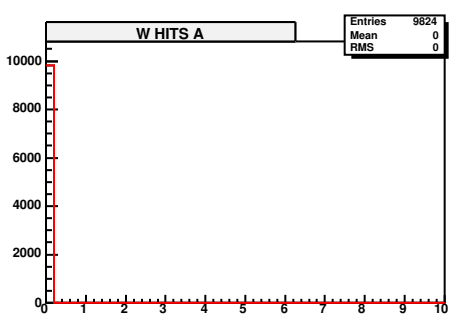


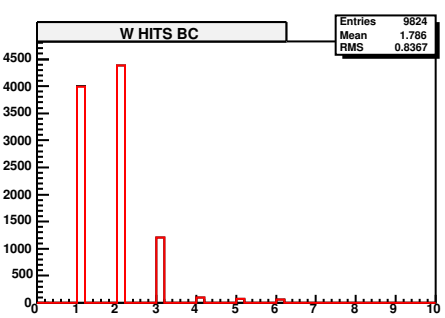


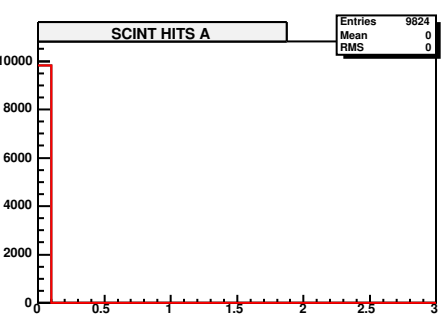


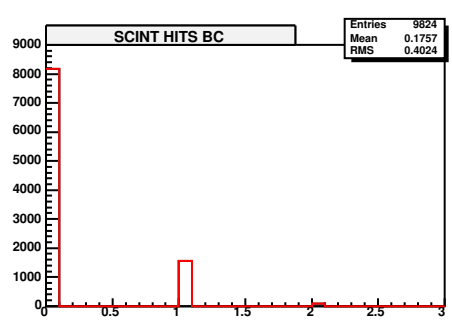




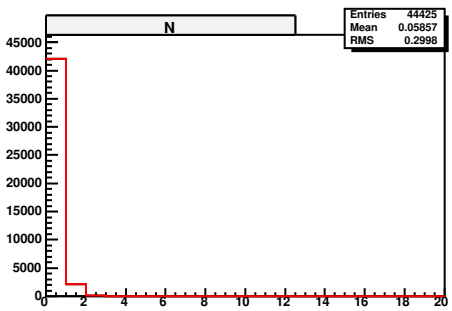


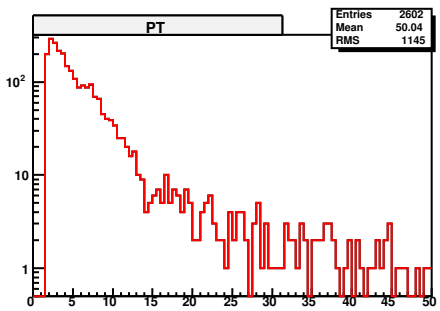


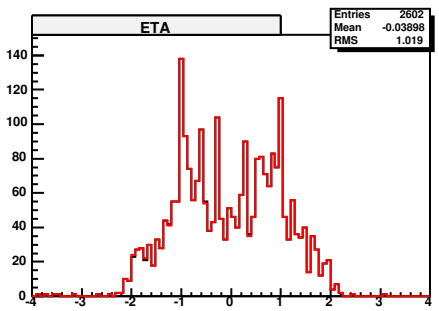


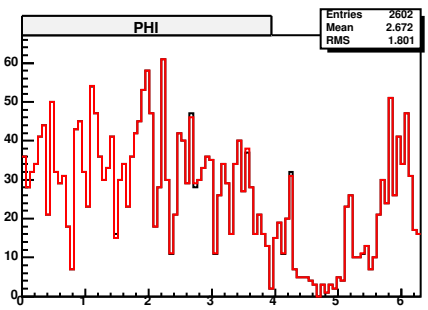


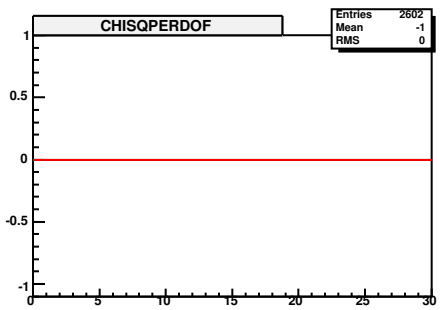
Muons (BCstub)

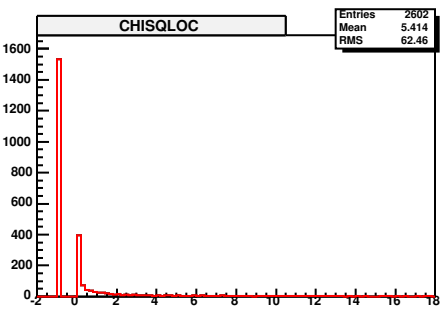


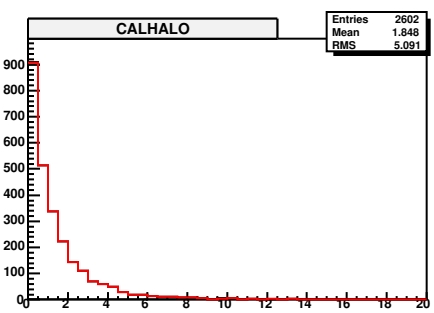


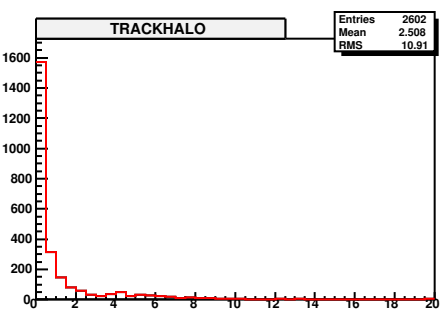


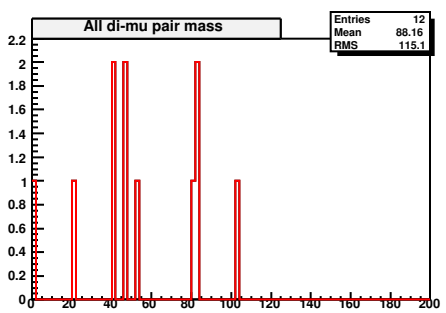


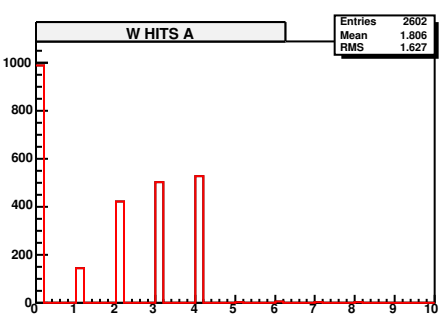


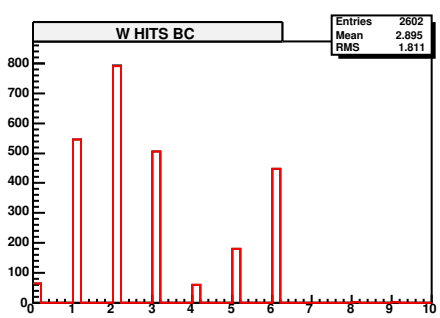


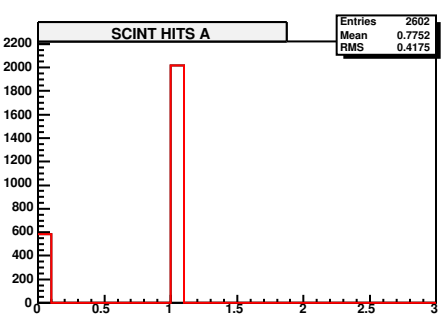


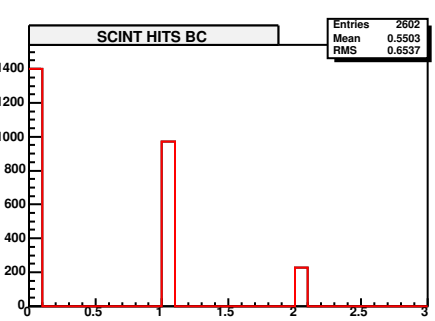




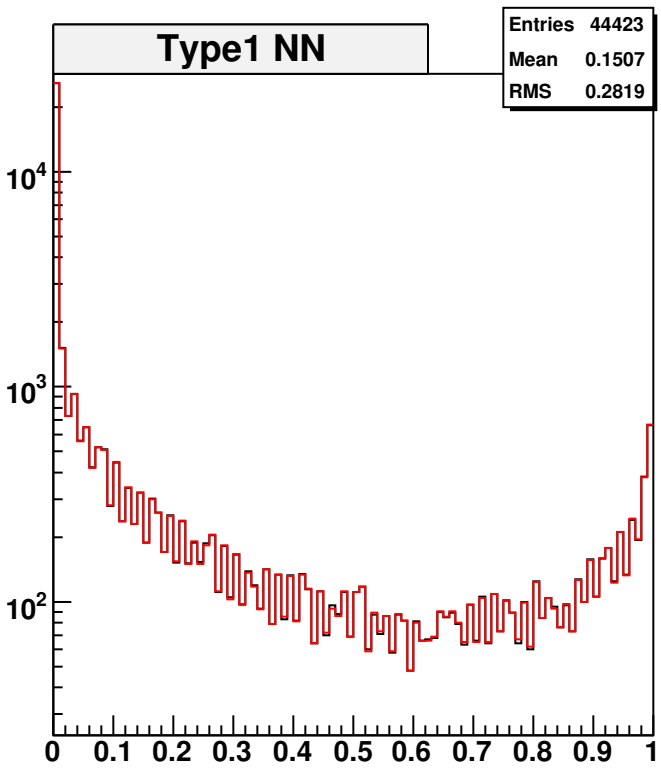


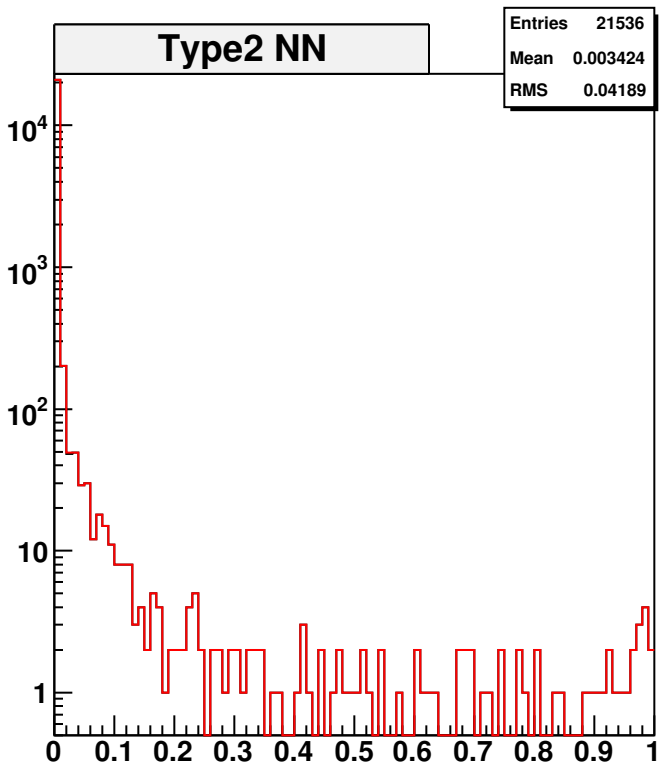


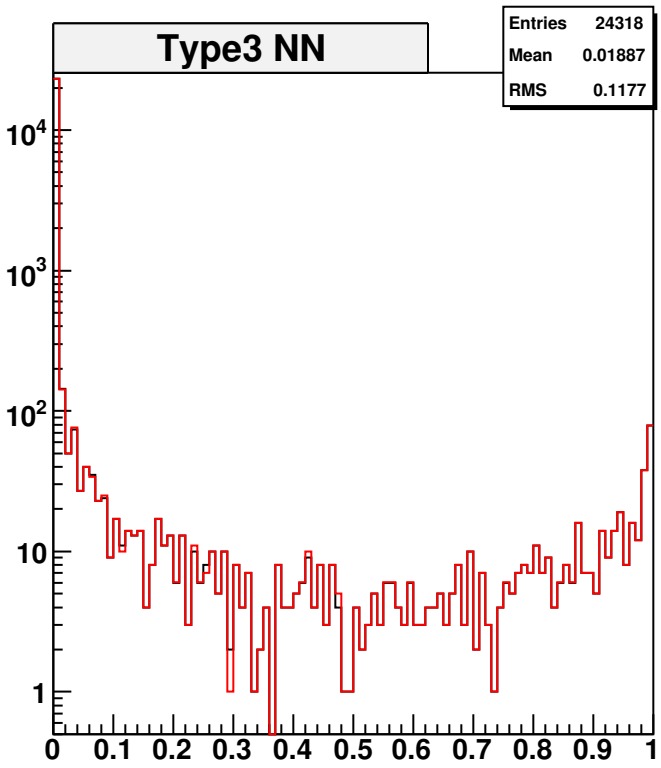


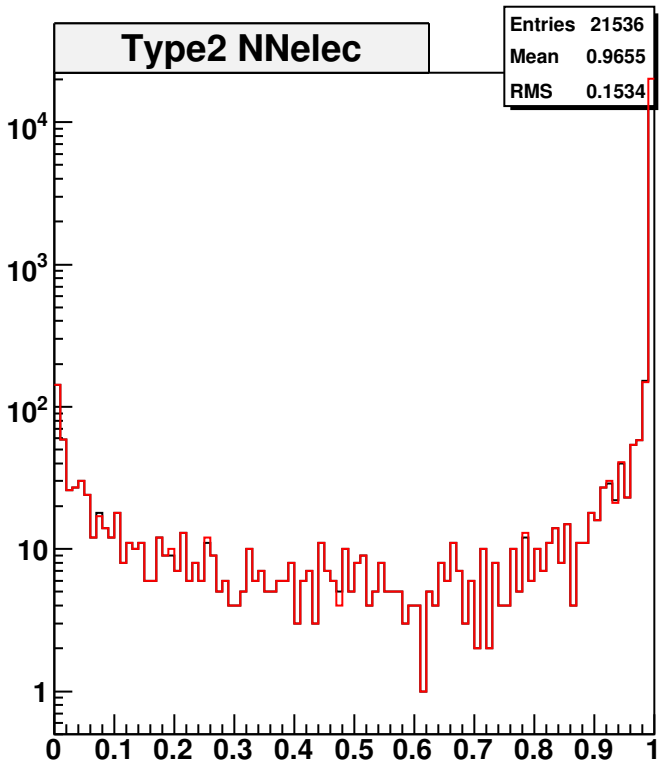


Muons (Unmatched)

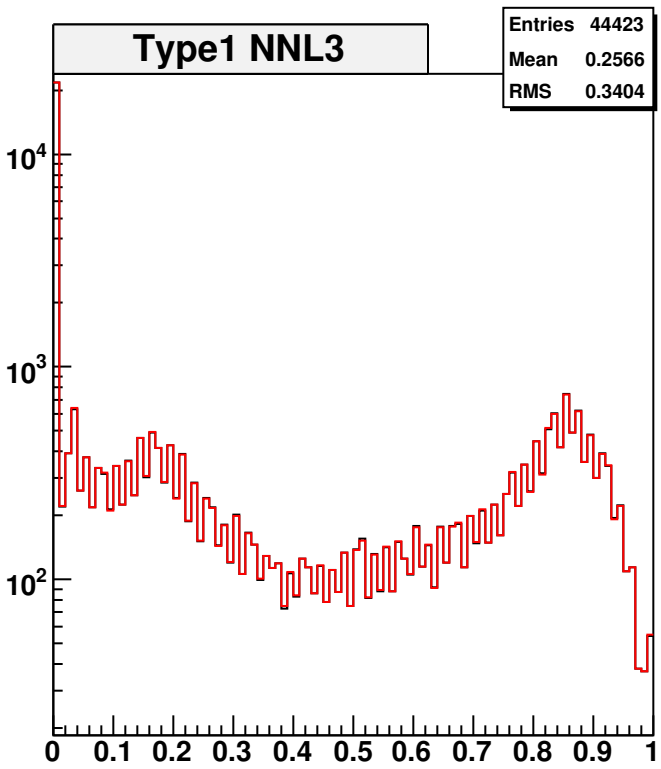


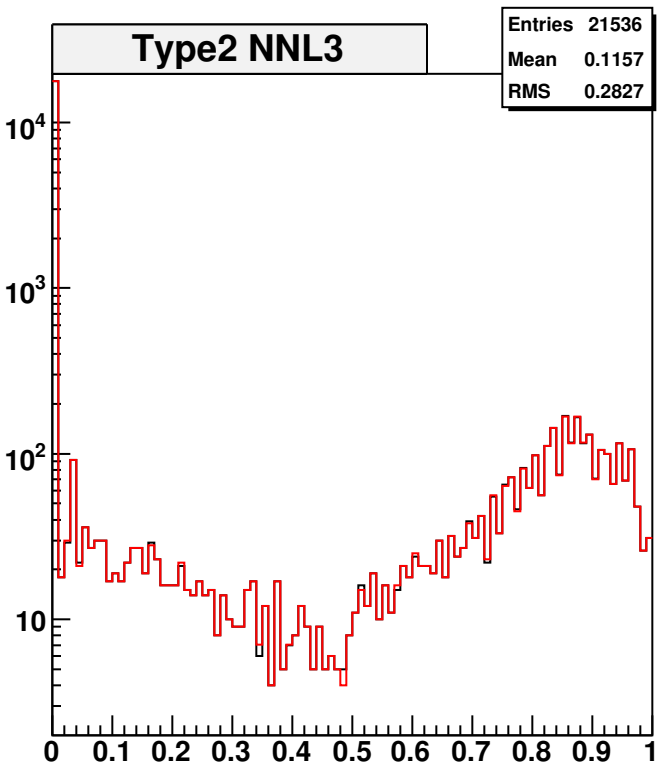


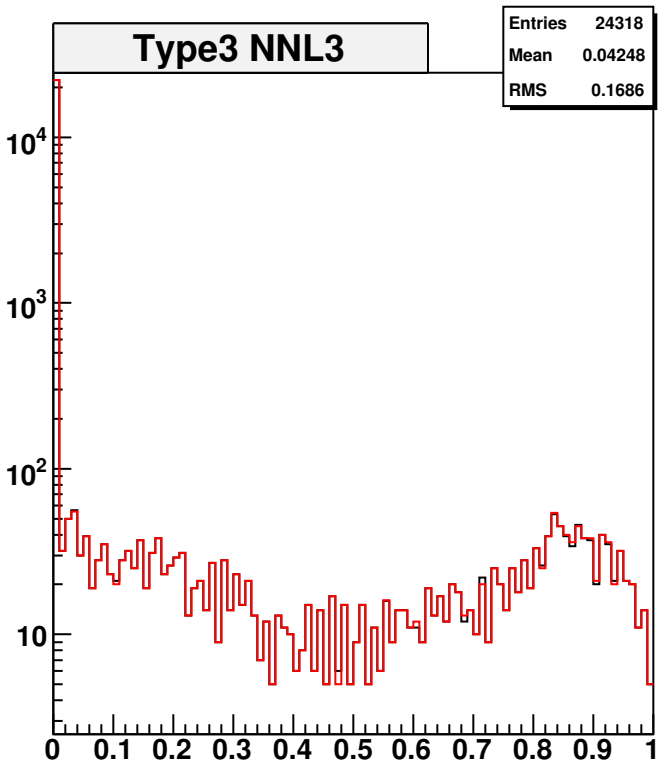


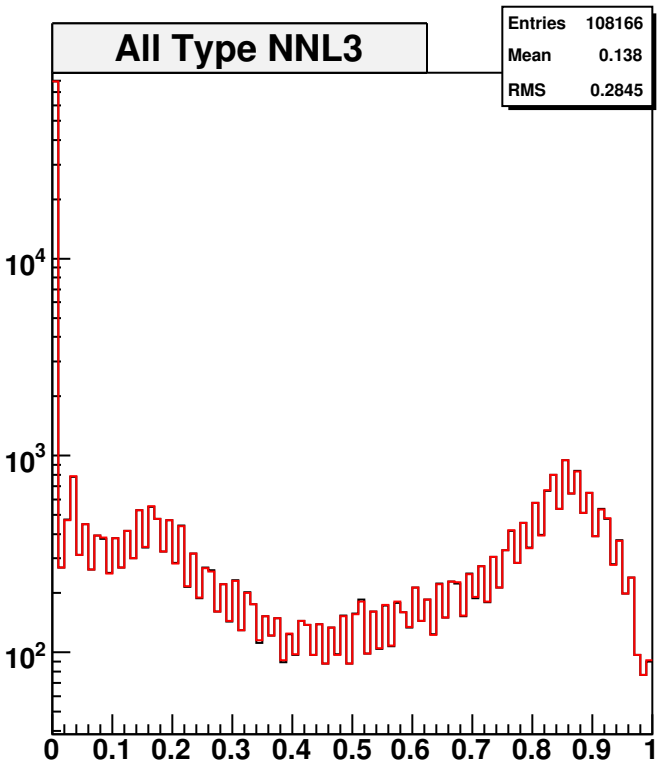


Taus NN (TAU All)

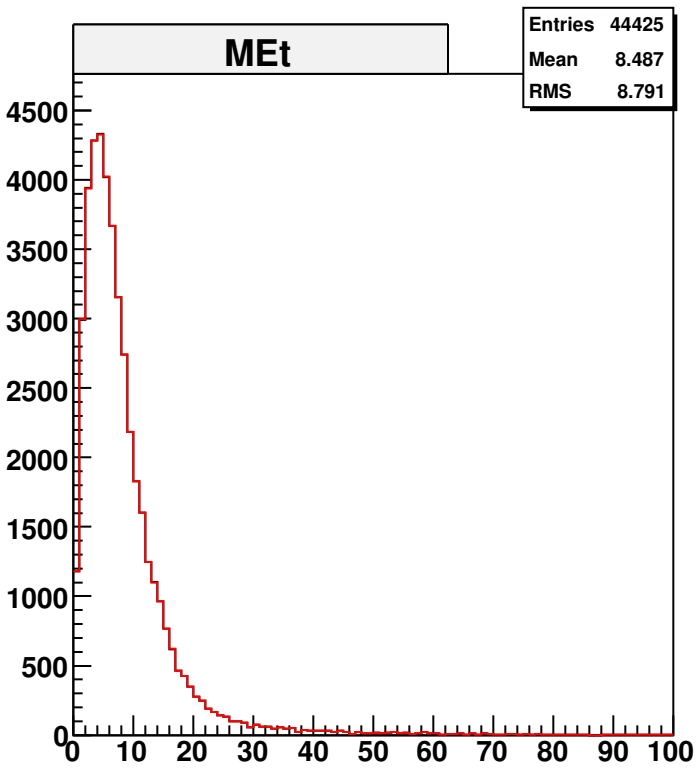


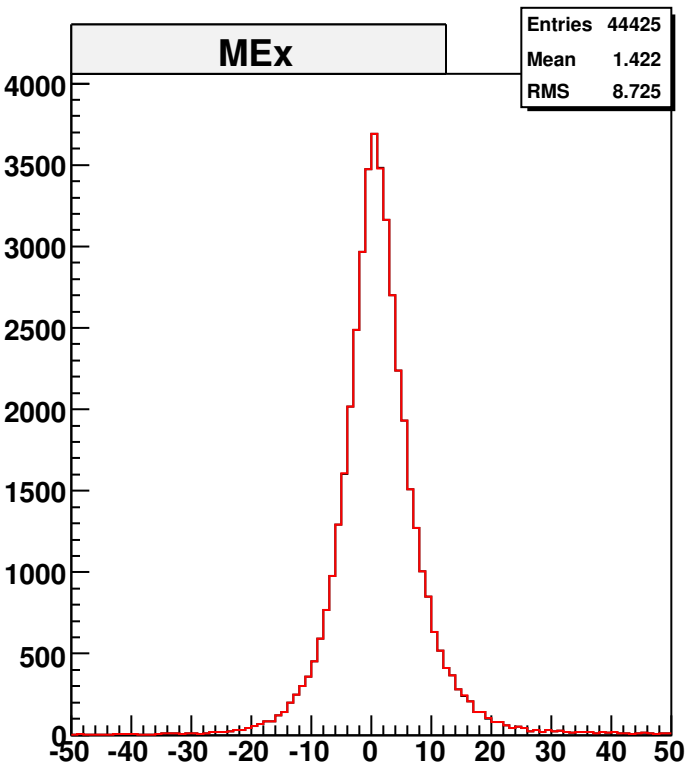


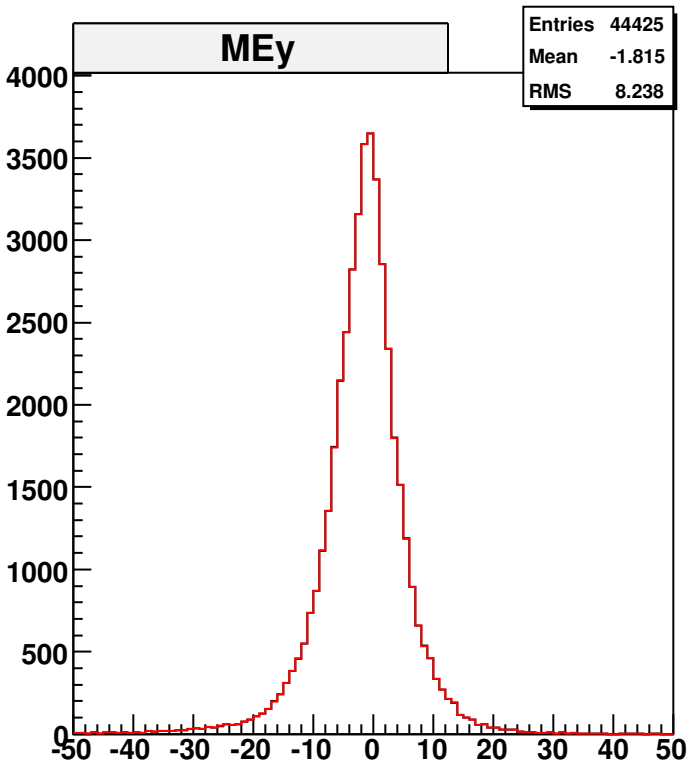




Taus NNL3 (TAU All)


MEt
Entries 44425
Mean 8.487
RMS 8.791
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 10 20 30 40 50 60 70 80 90 100


MEx
Entries 44425
Mean 1.422
RMS 8.725
4000
3500
3000
2500
2000
1500
1000
500
0
-50 -40 -30 -20 -10 0 10 20 30 40 50


MEy
Entries 44425
Mean -1.815
RMS 8.238
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3500
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1500
1000
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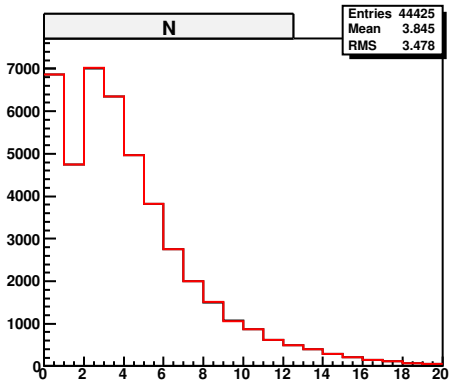
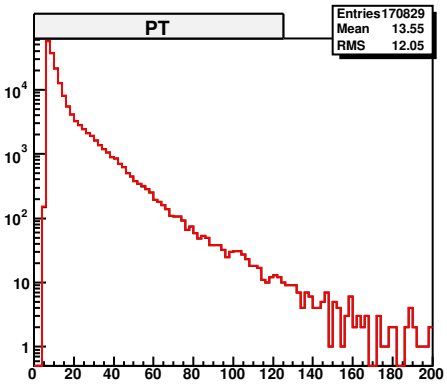
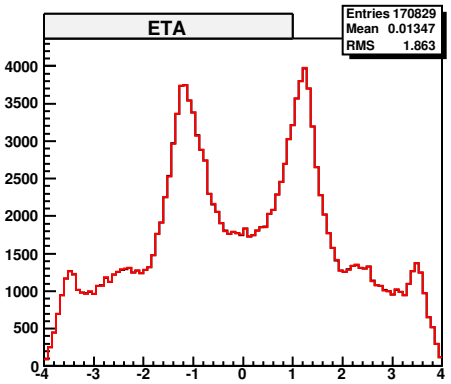
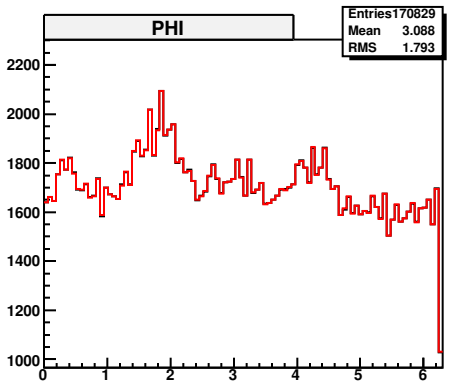
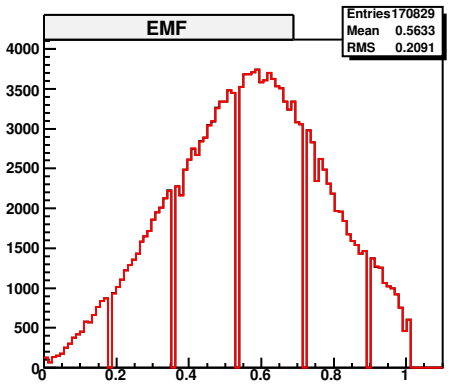
Met (No cuts)

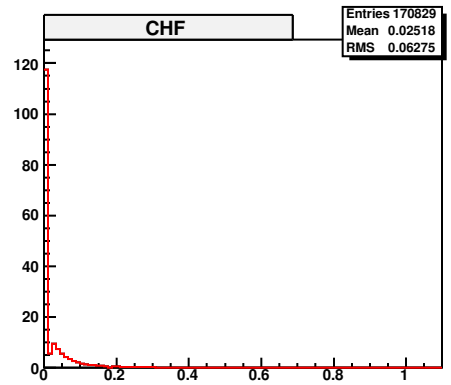


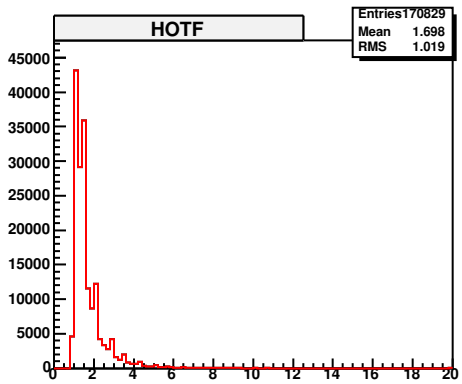


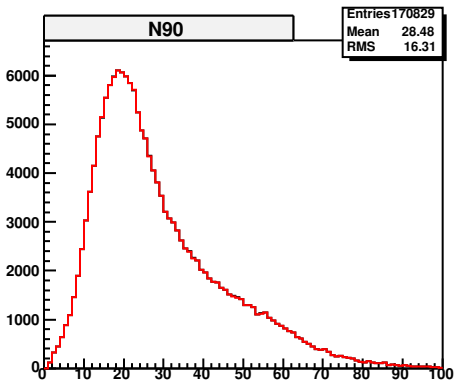


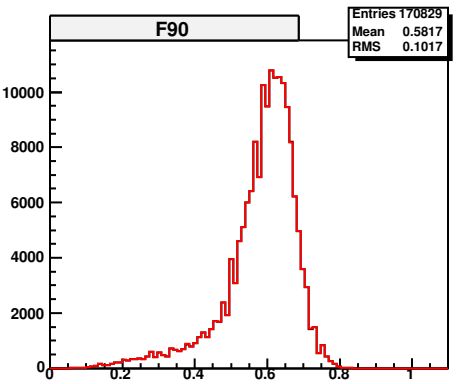


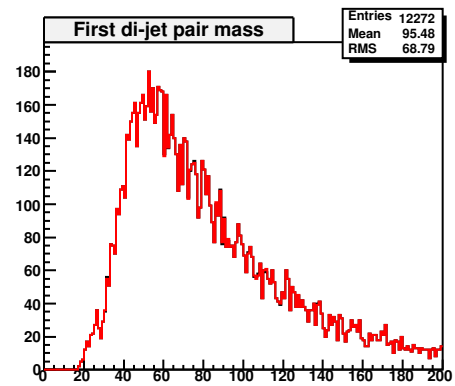


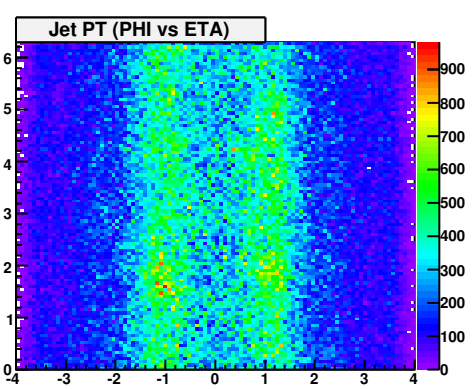




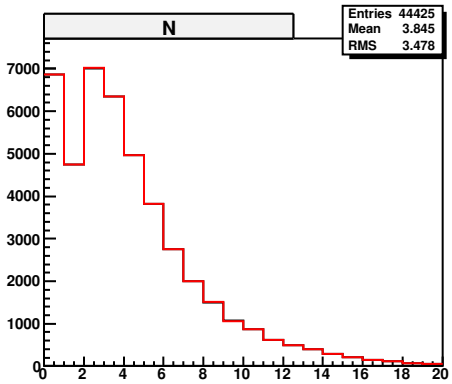


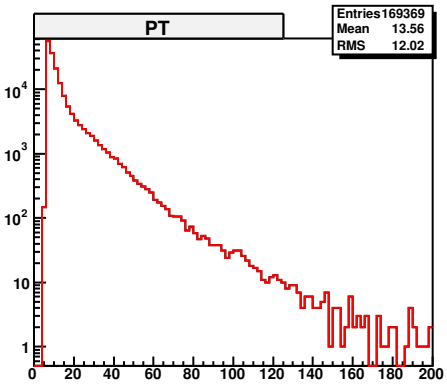


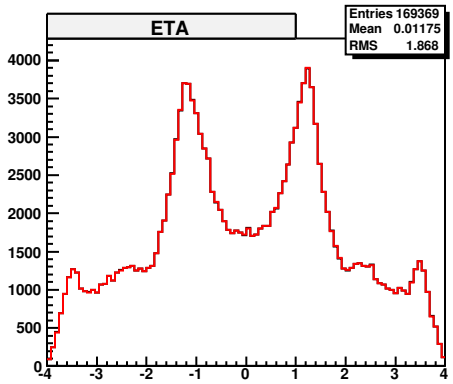


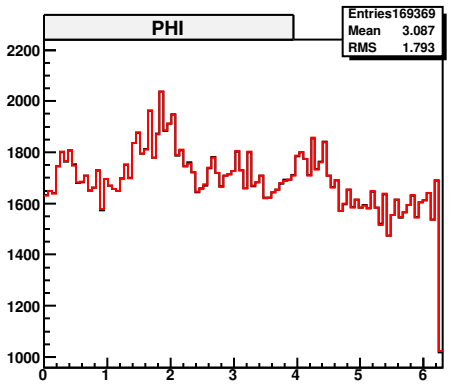


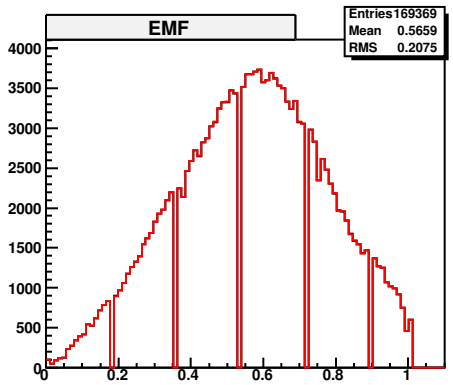
Jets (Cone R 0.7 (no cuts))

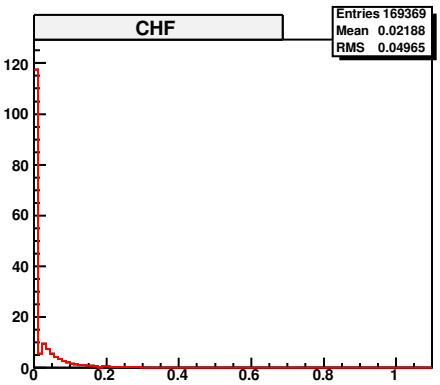


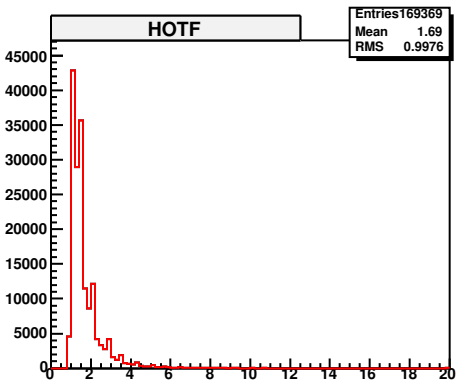


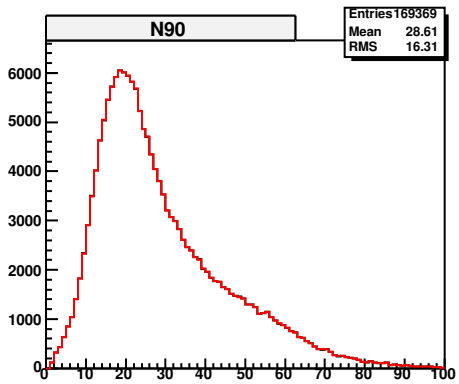


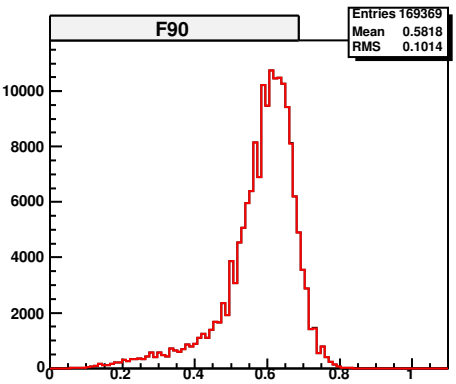


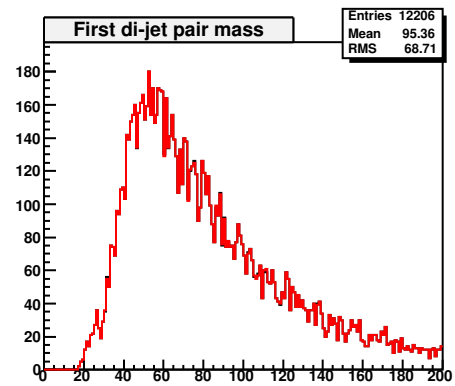


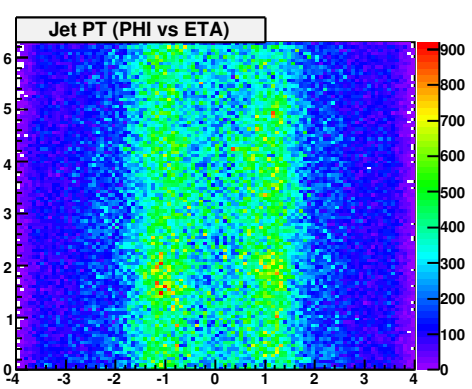




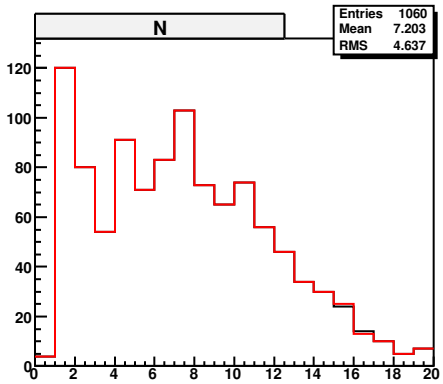


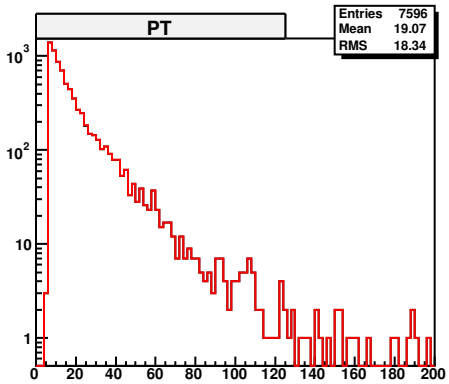


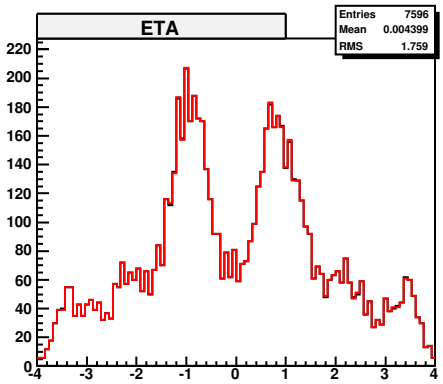


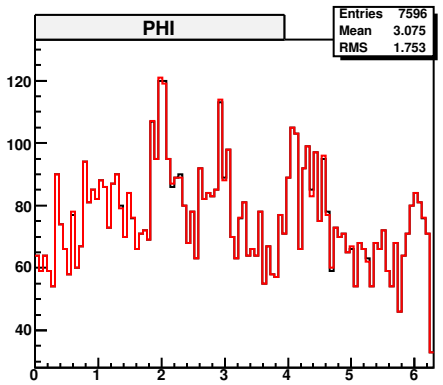


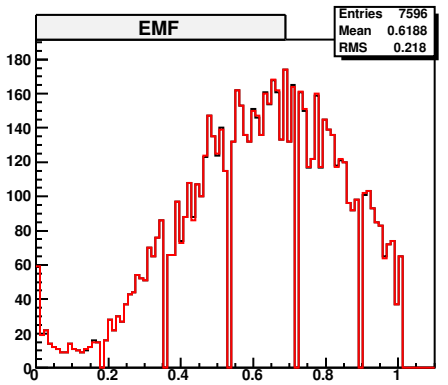
Jets (Cone R 0.7 (standard cuts))

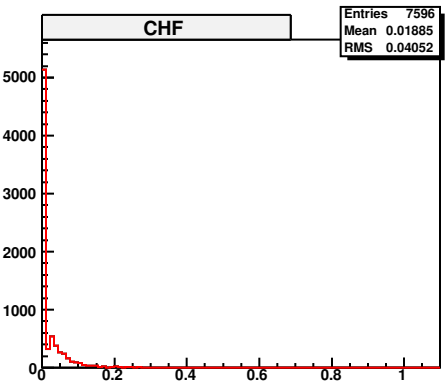


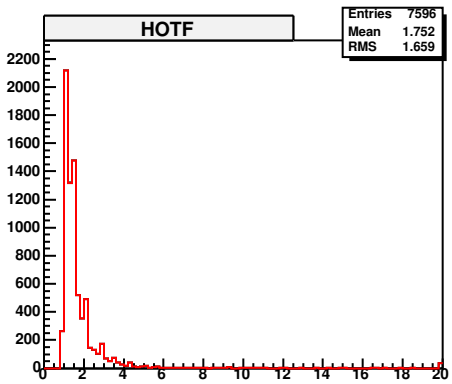


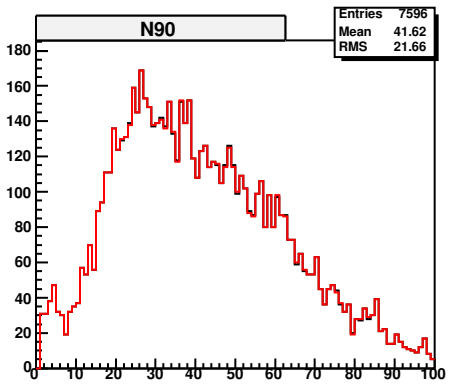


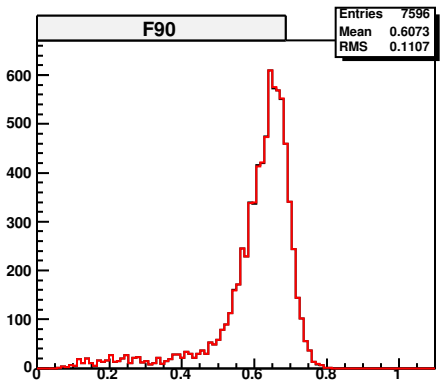


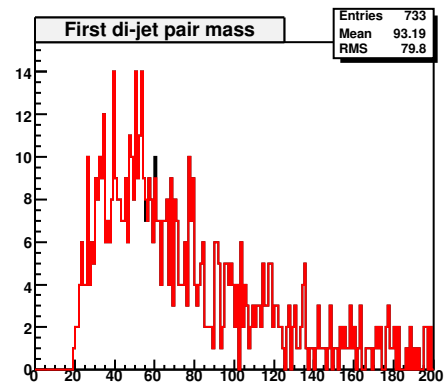


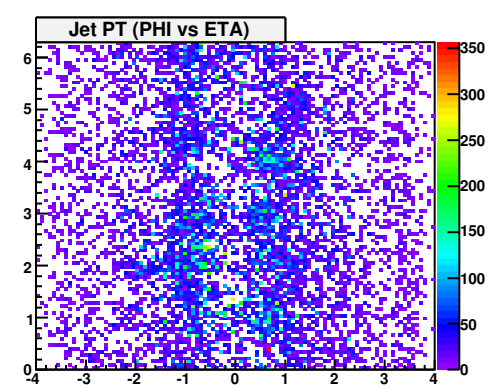




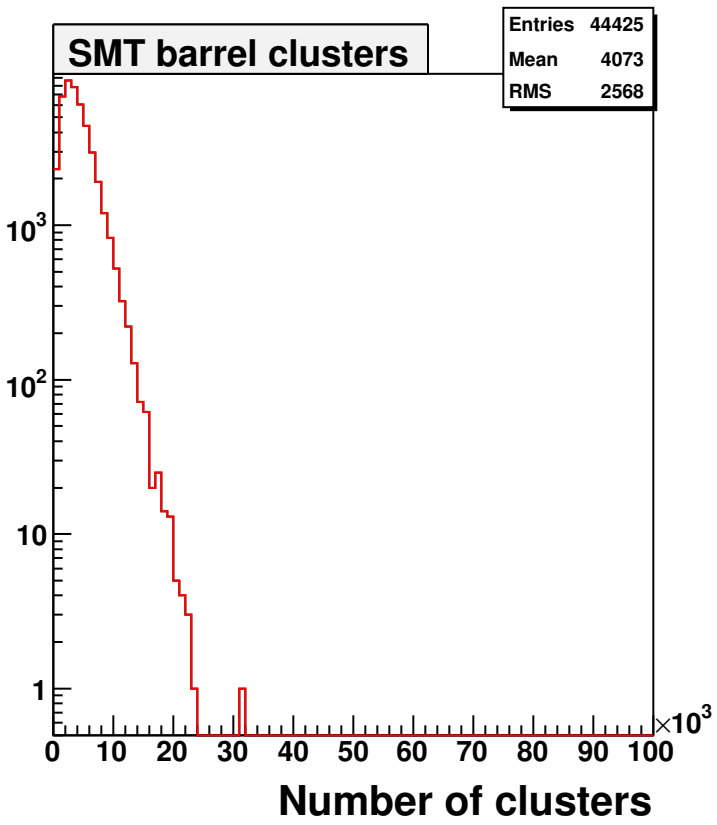


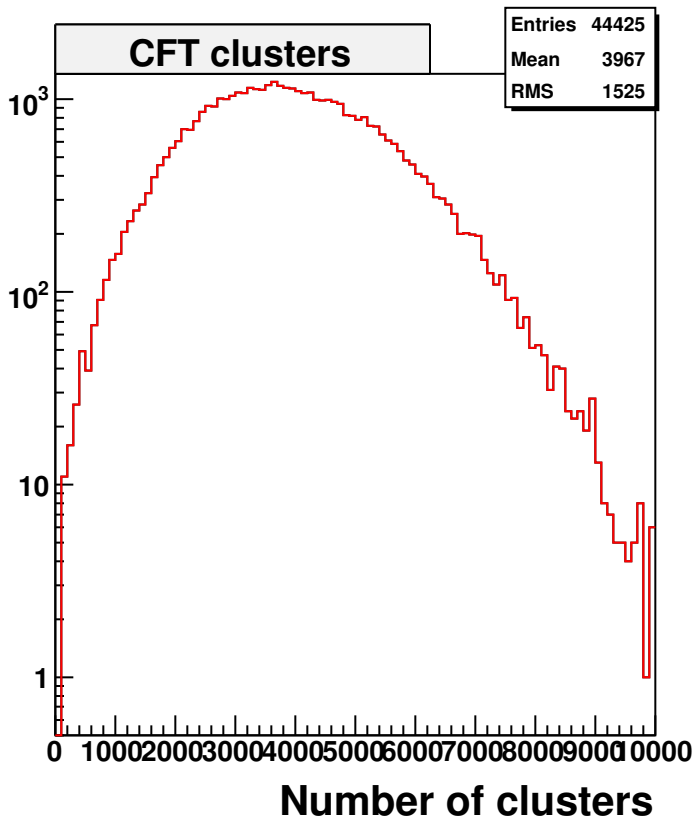


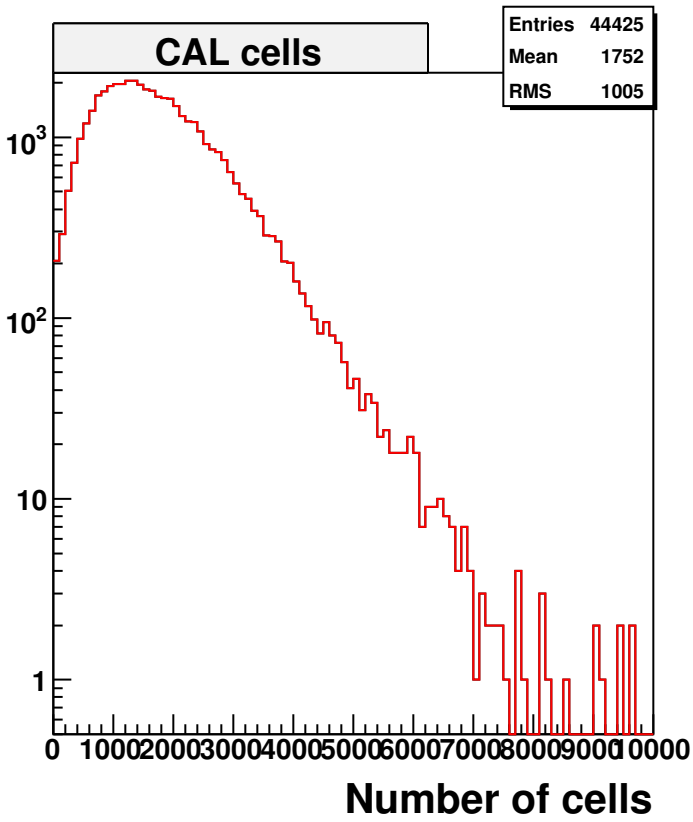


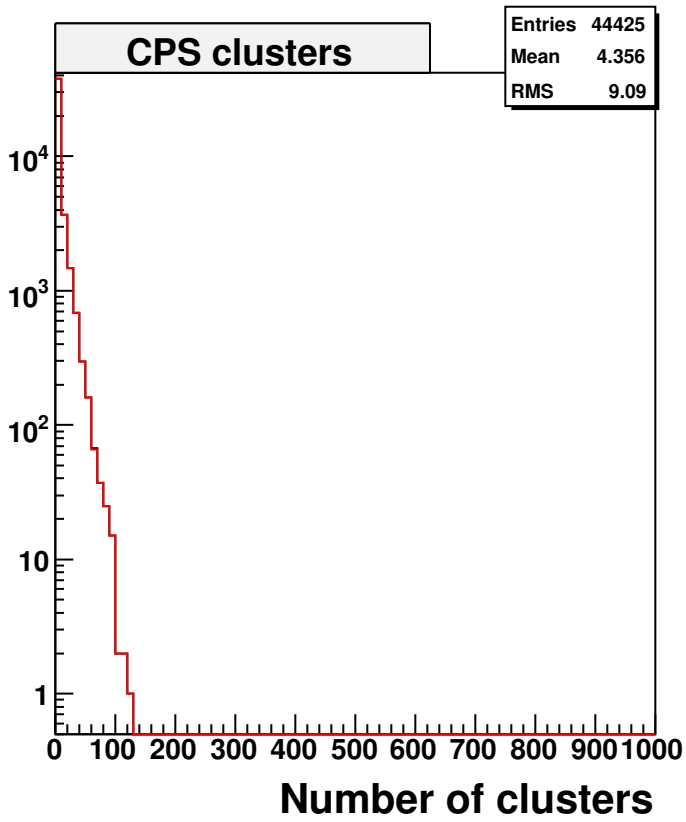


Jets (Cone R 0.7 (standard cuts, MET>30))

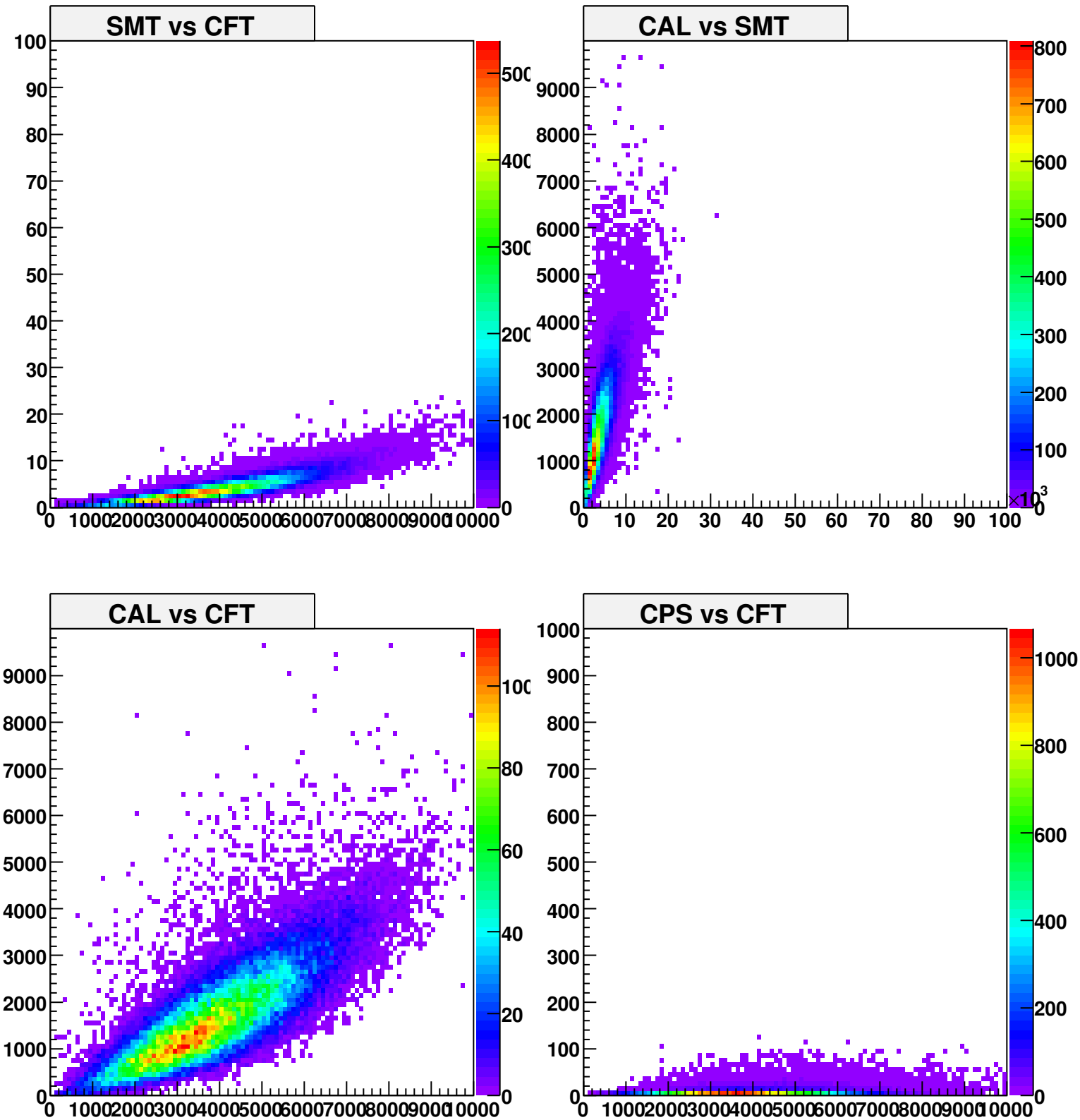


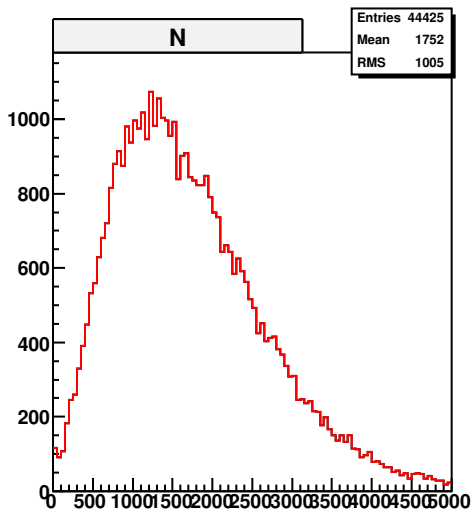


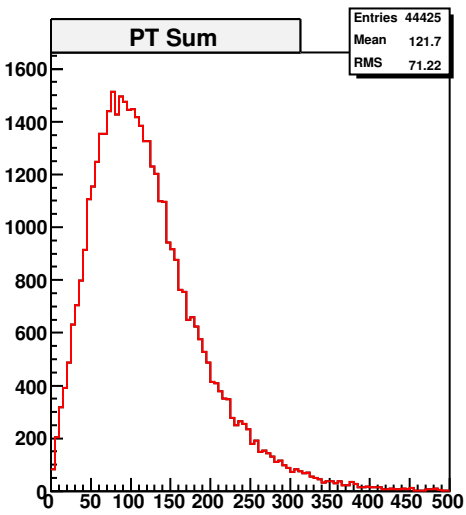


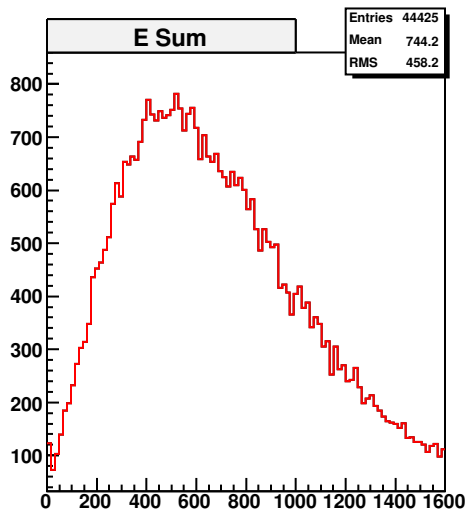


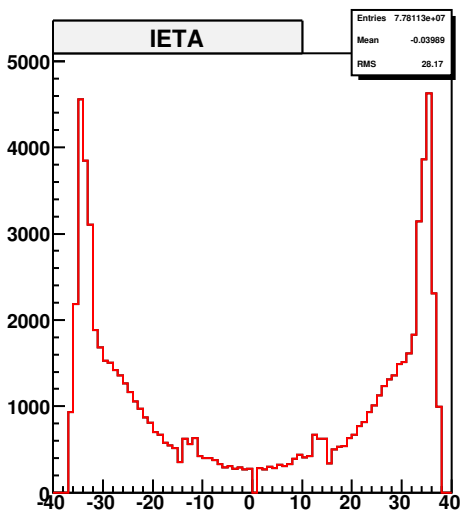
Detector Occupancy (Detector)

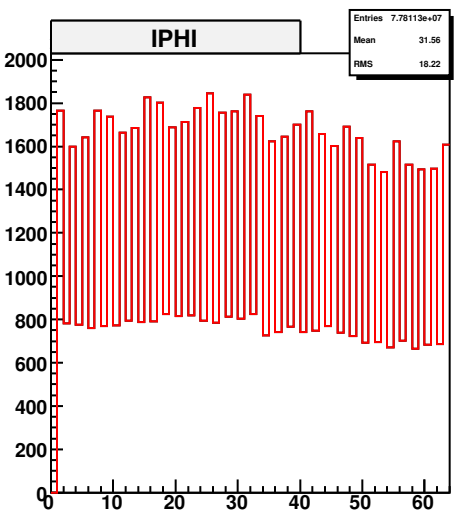

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

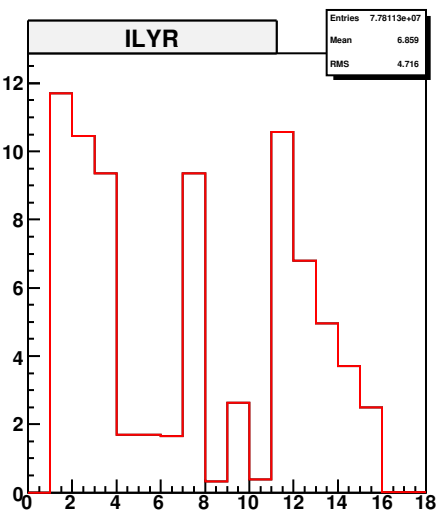


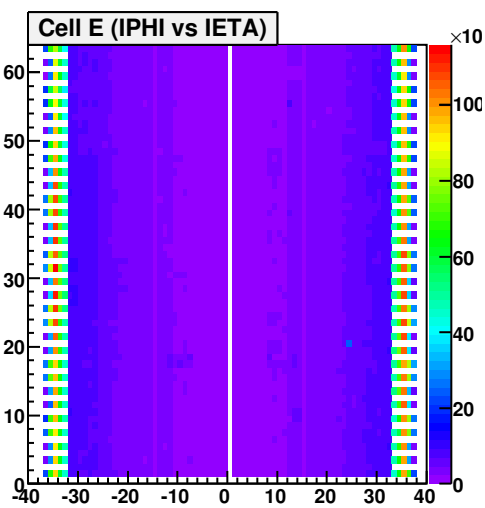


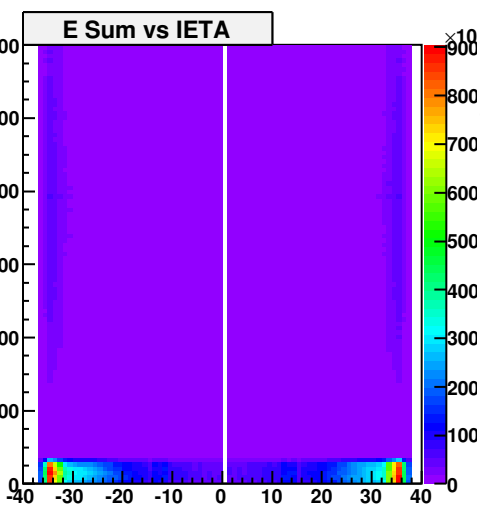


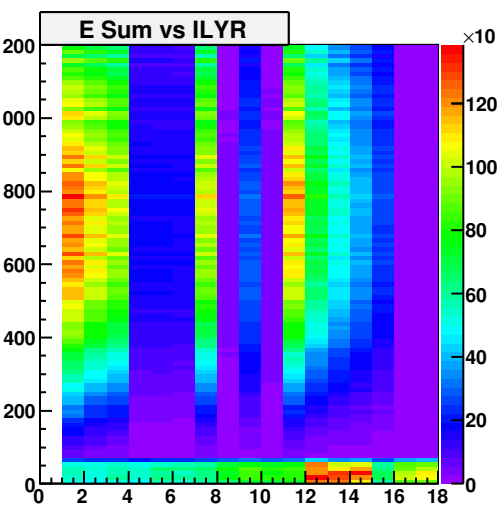




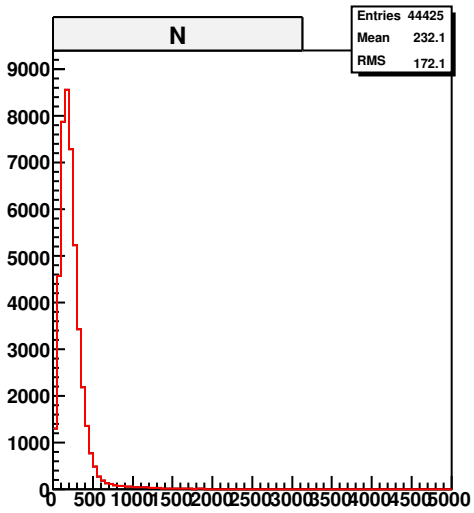


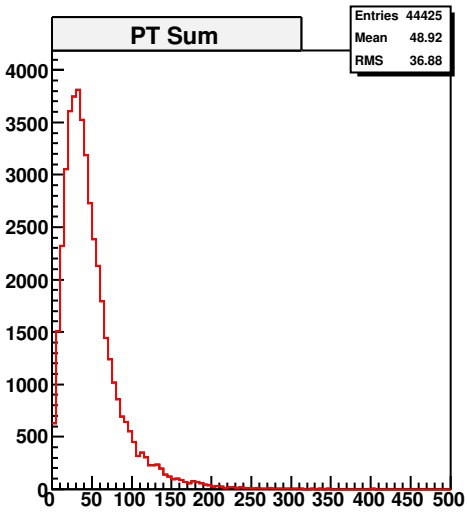


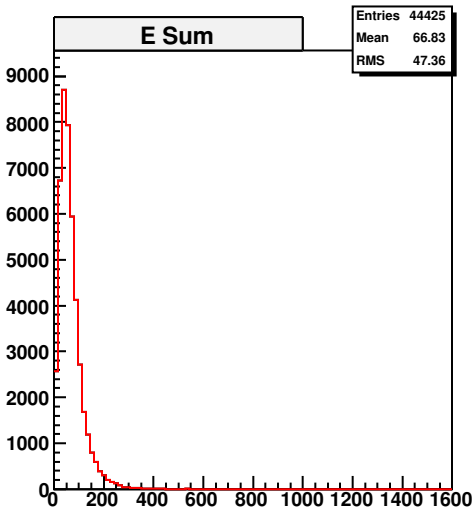


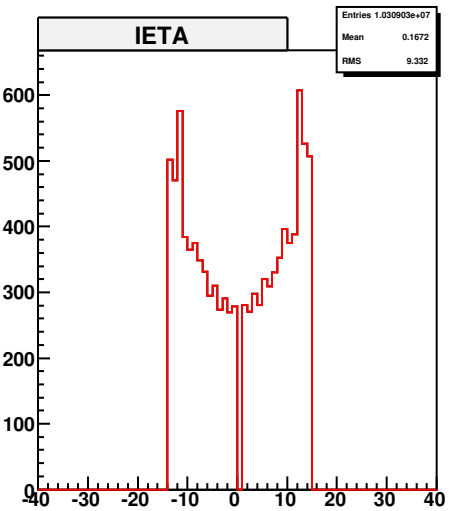


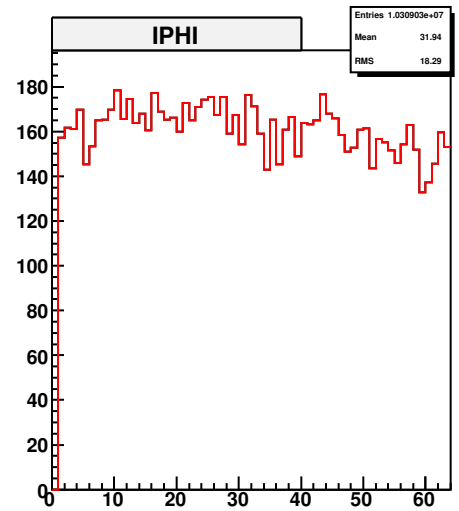
Calorimeter (All cells)

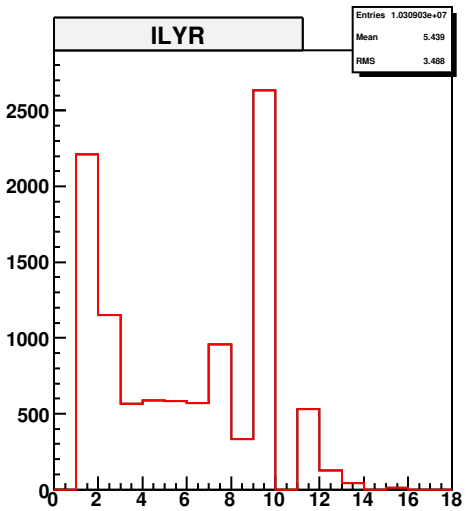


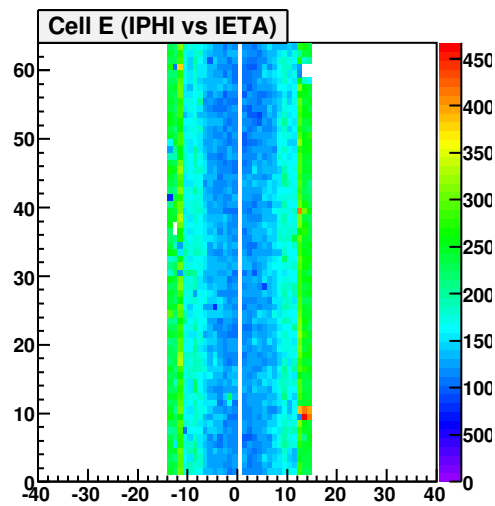


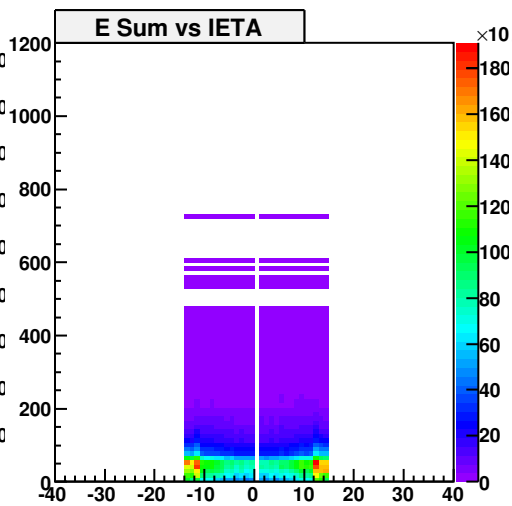


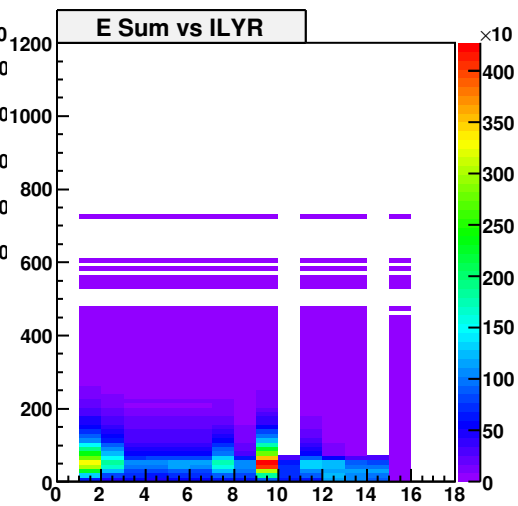




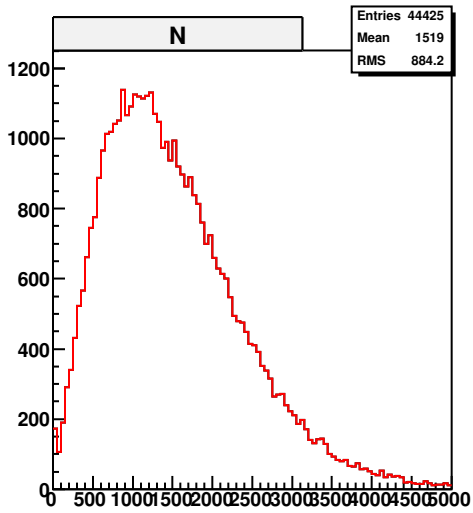


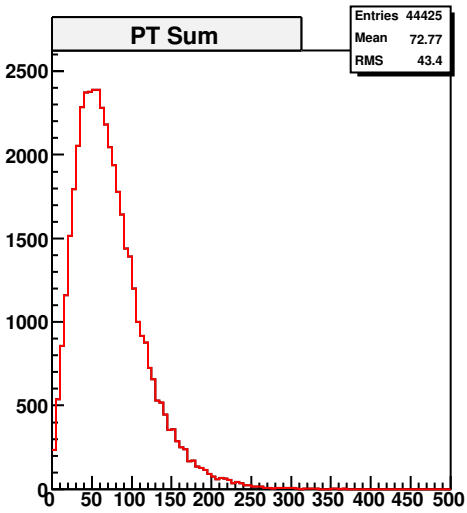


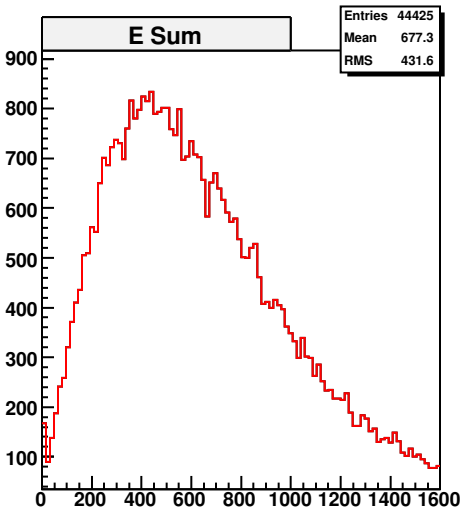


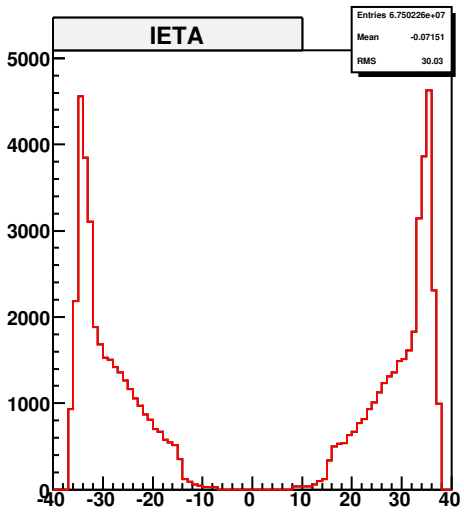


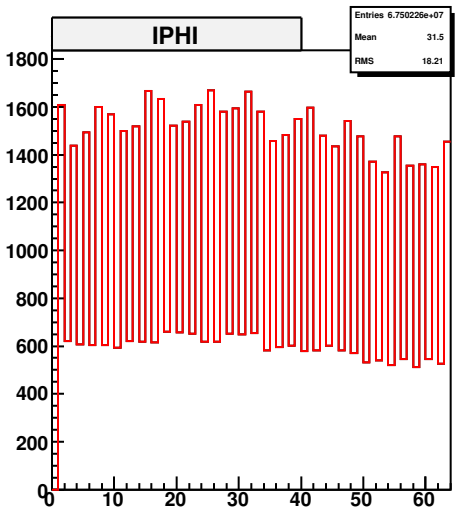
Calorimeter (All CC cells)

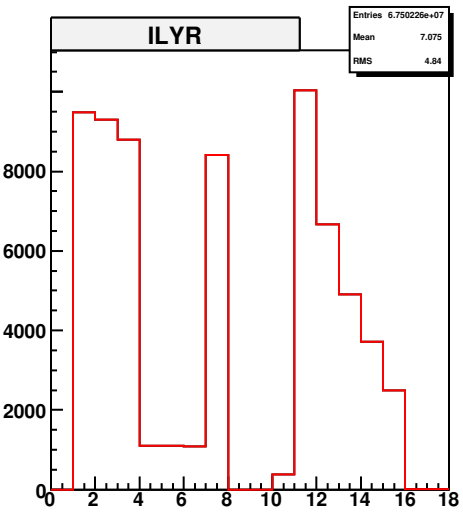


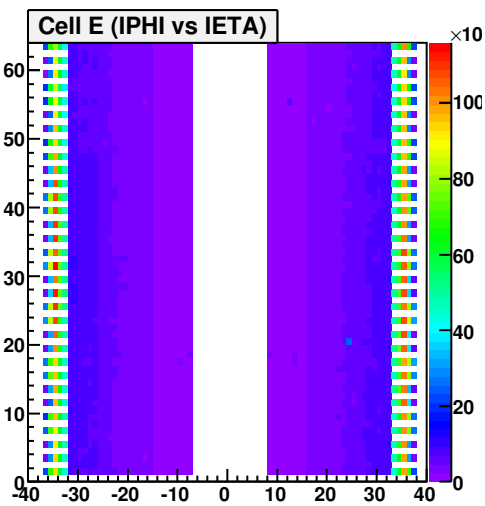


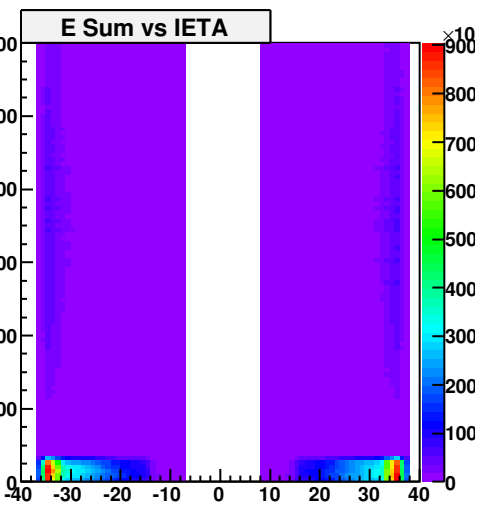


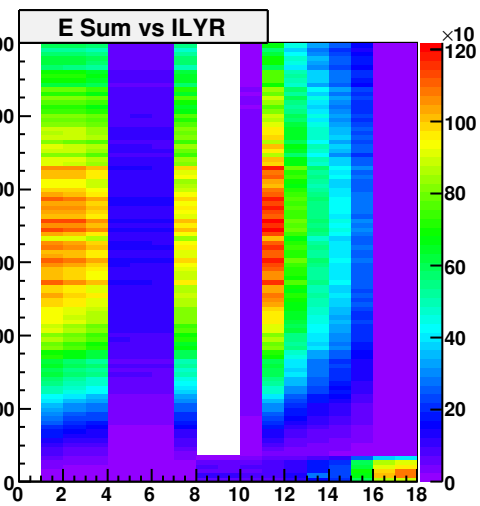




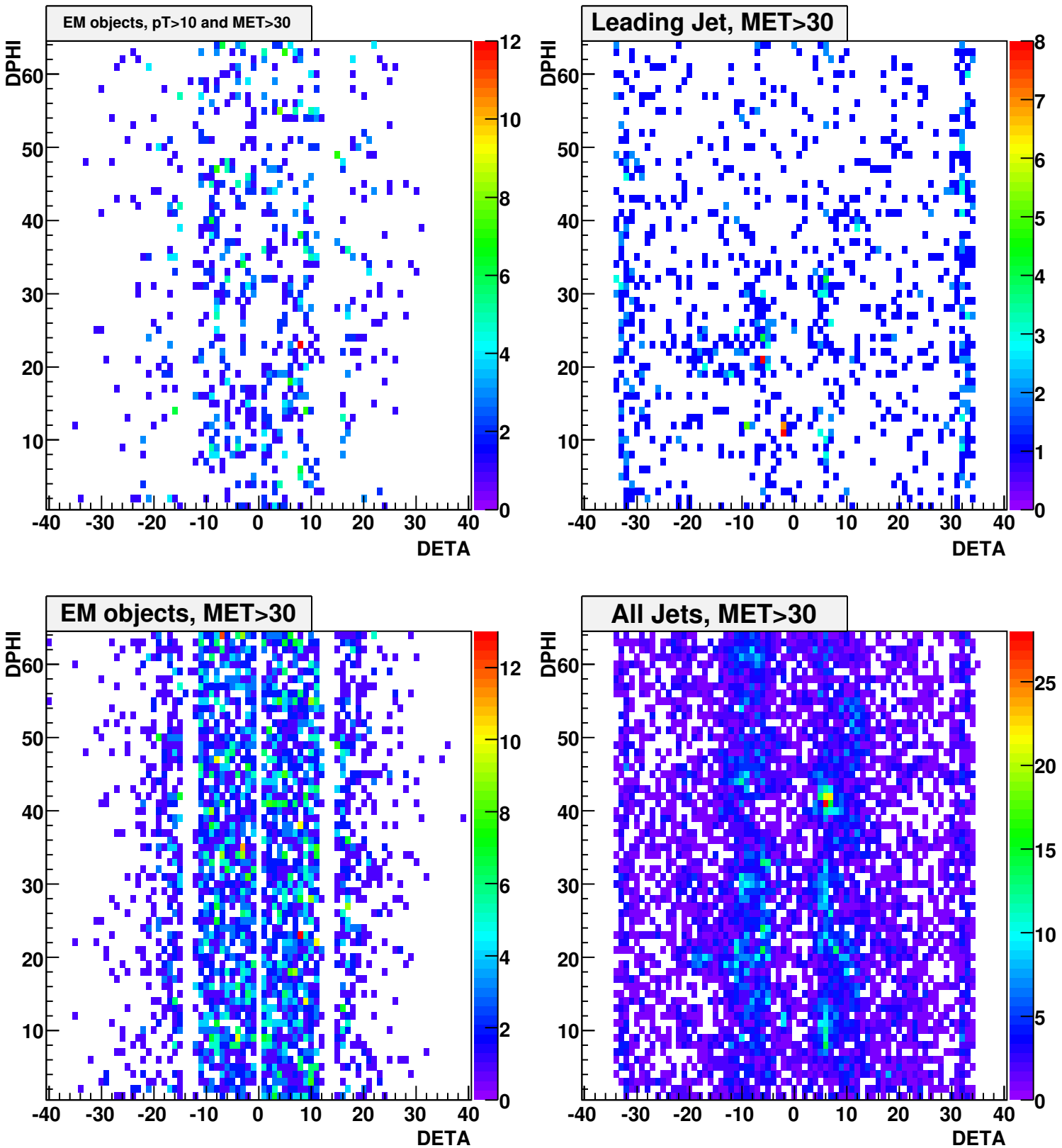




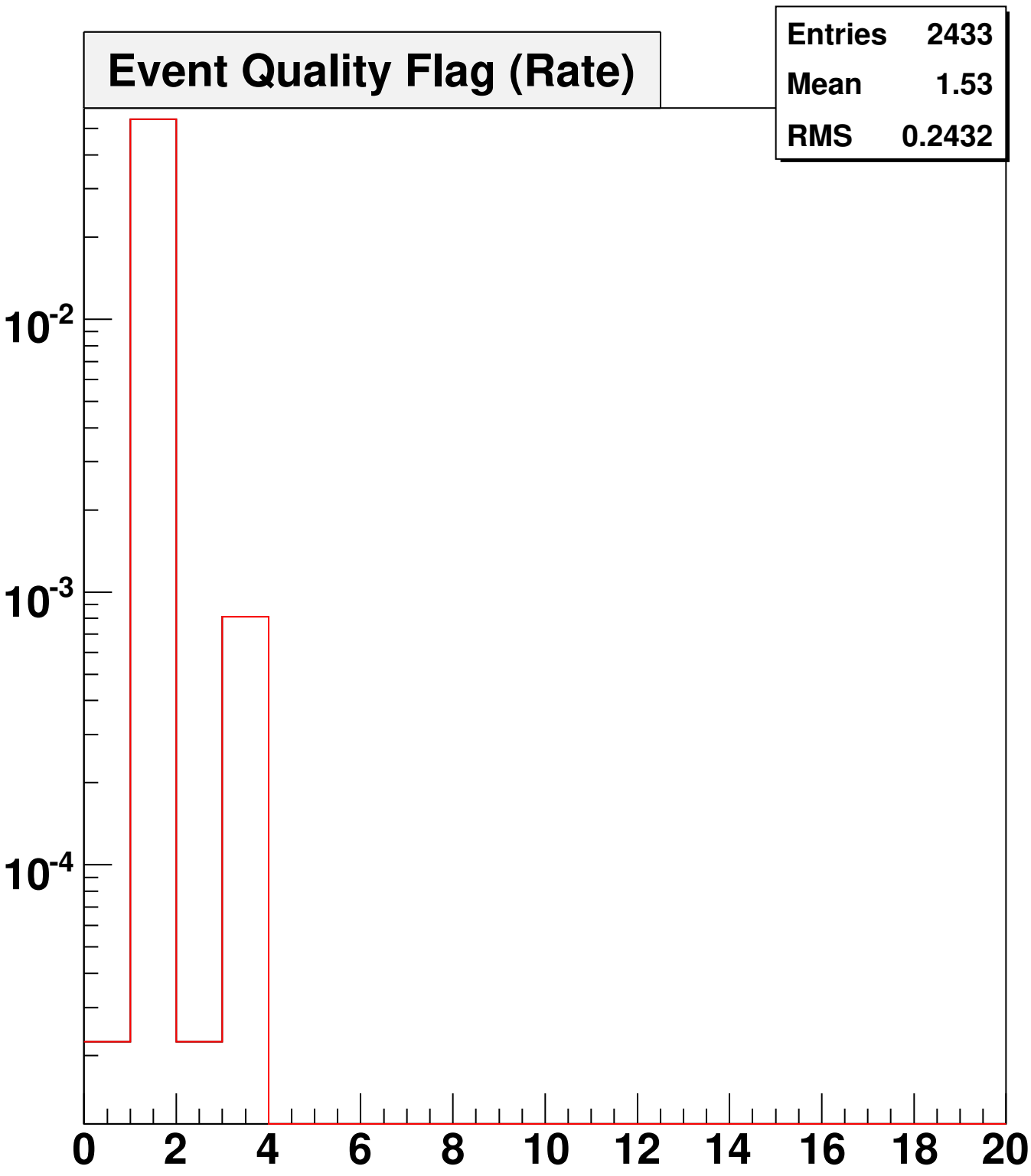


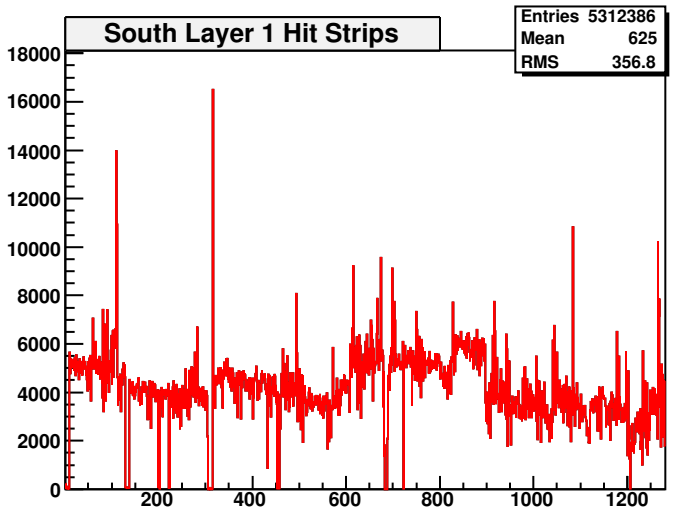


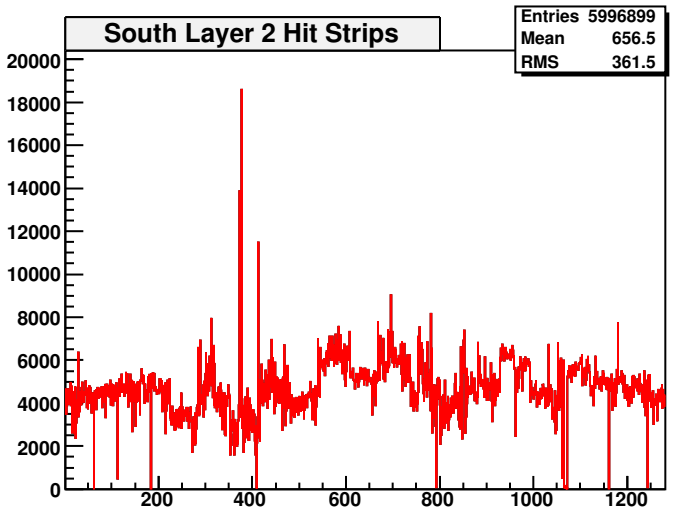
Calorimeter (All EC cells)

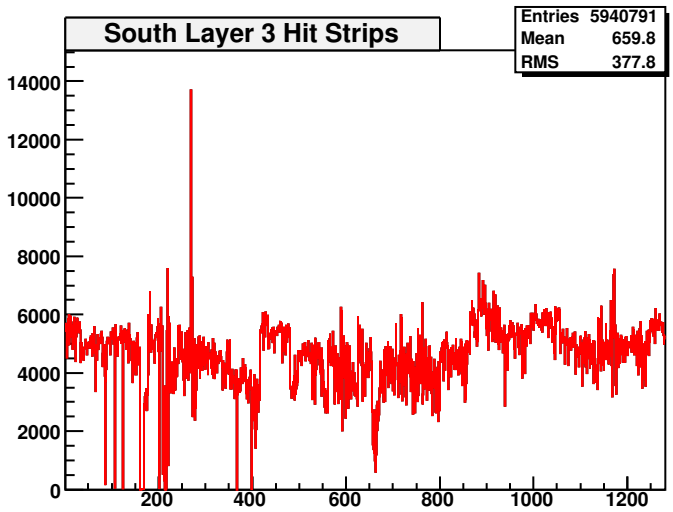


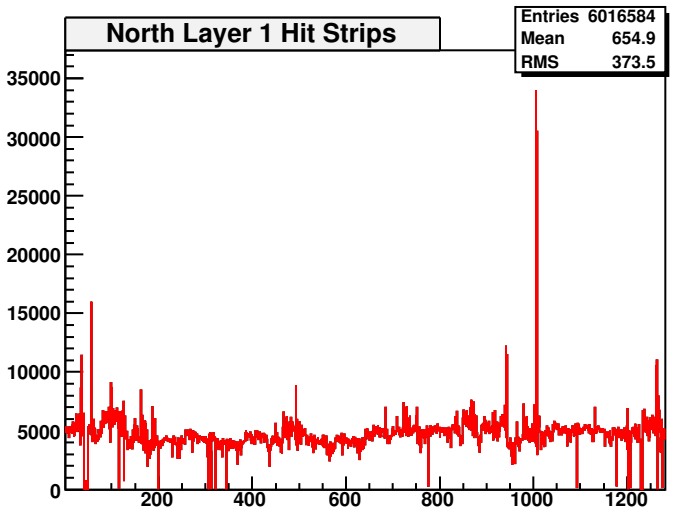
Cal Objects with MET>30 (All cells)

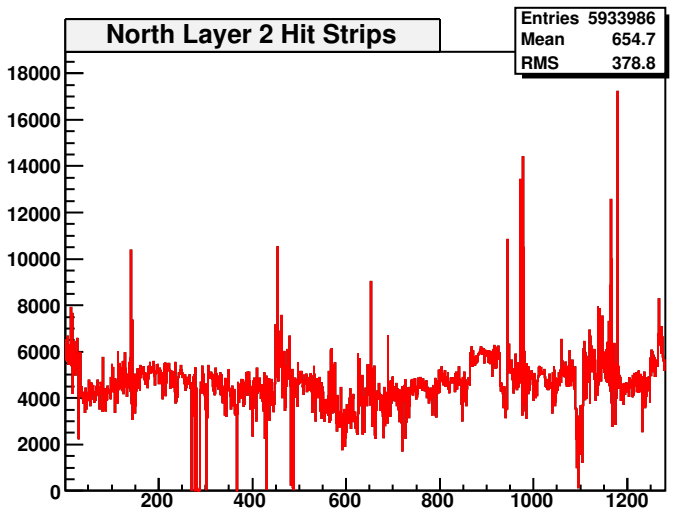

Event Quality Flag (Rate)
Entries 2433
Mean 1.53
RMS 0.2432
10-2
10-3
10-4
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

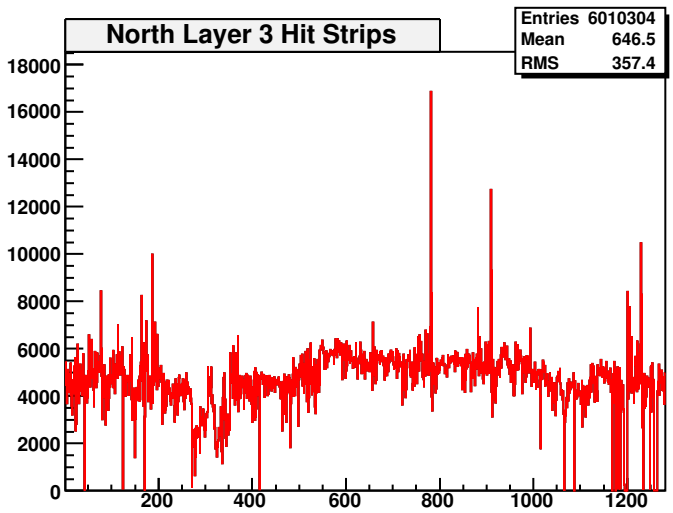




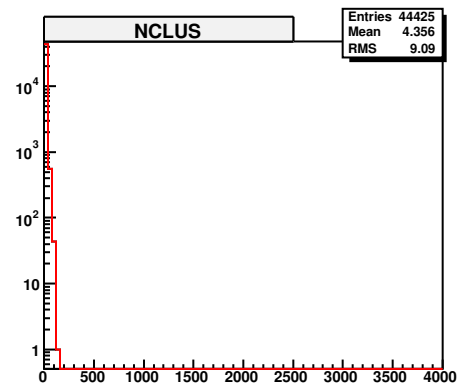


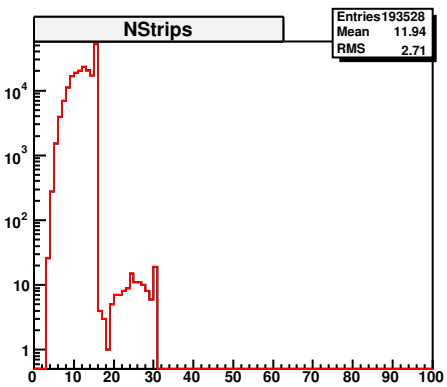


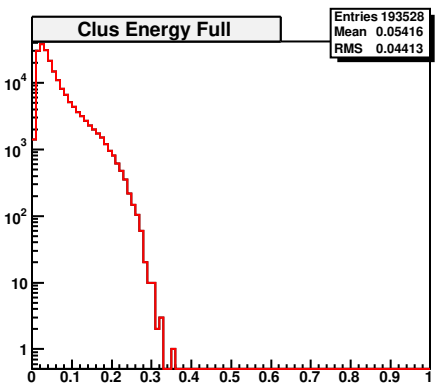


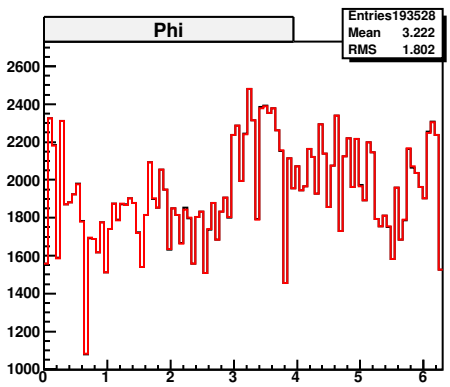


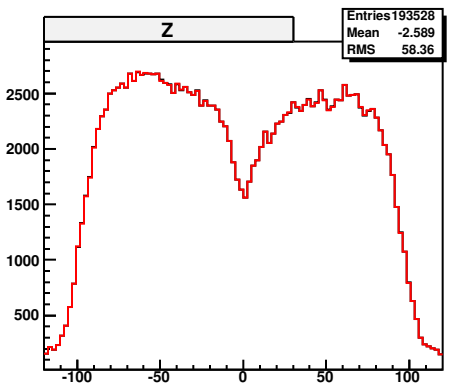
CPS Hit Strips (All Clusters)

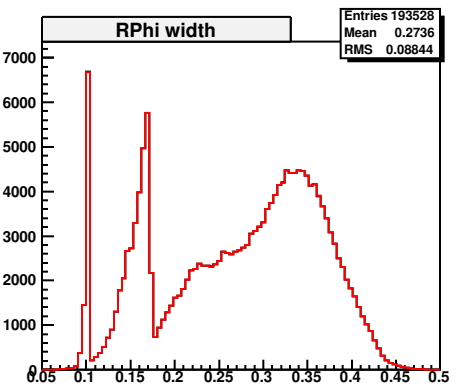


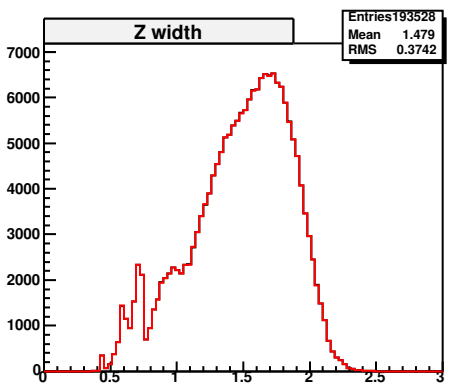


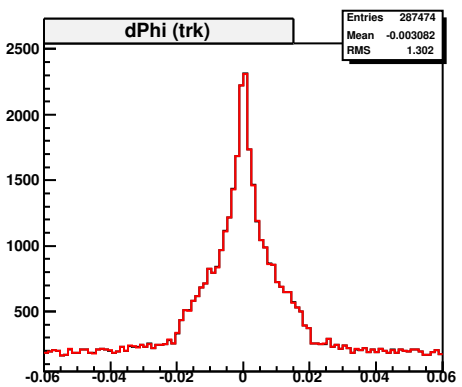


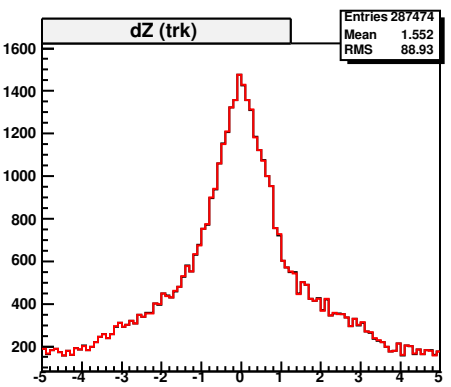


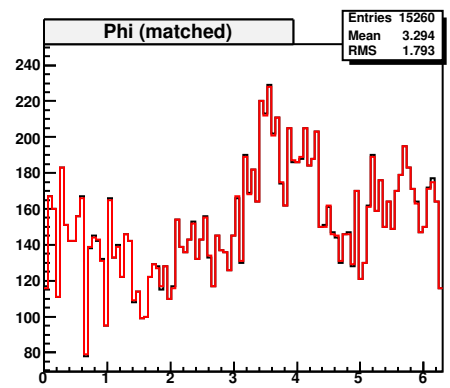


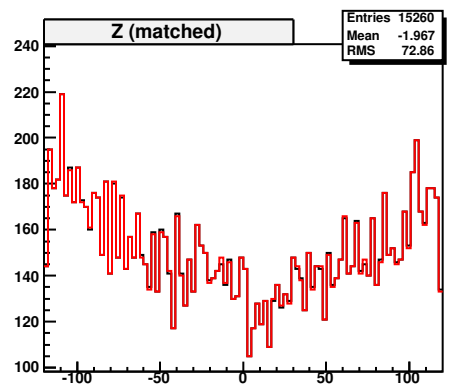




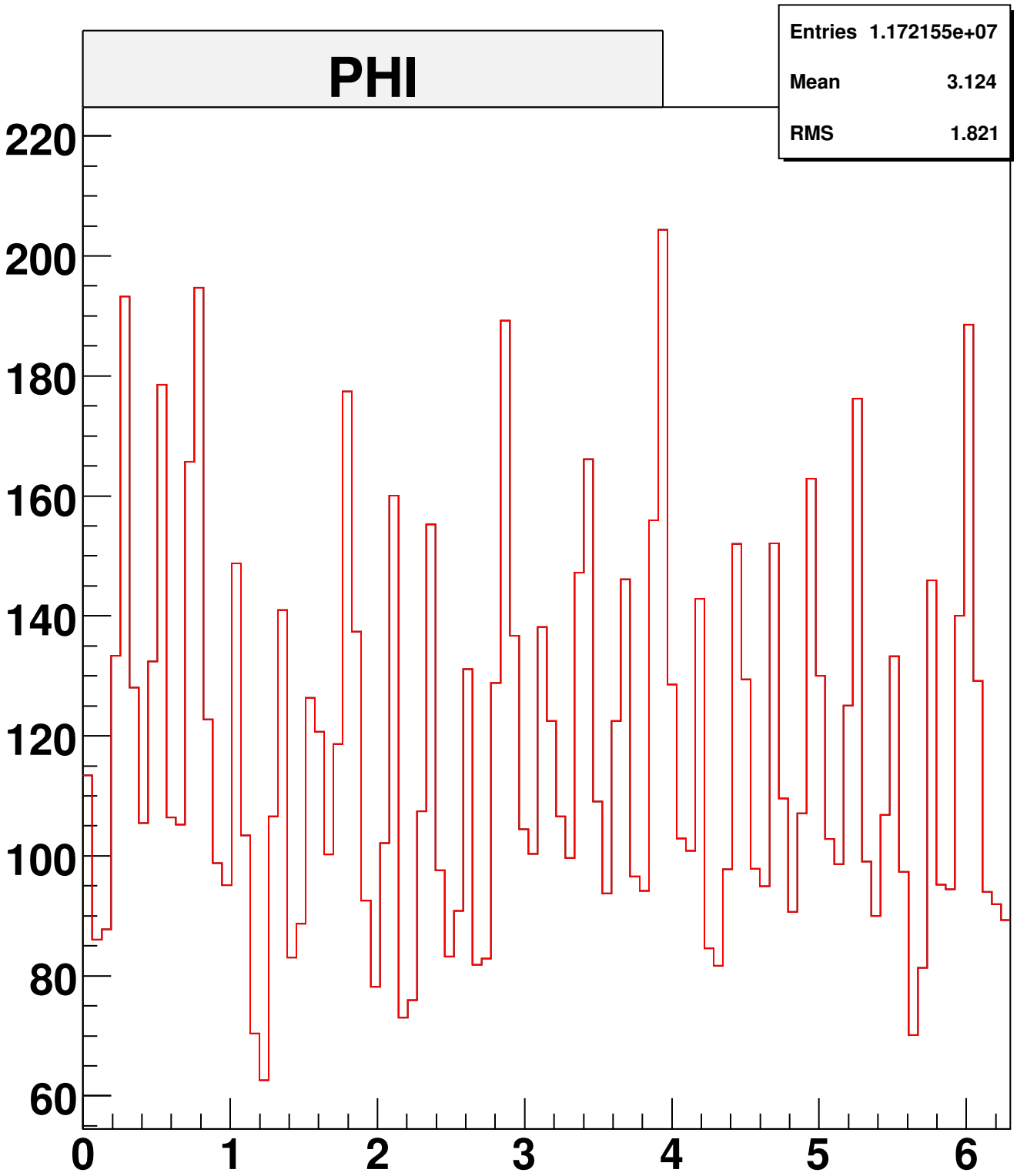


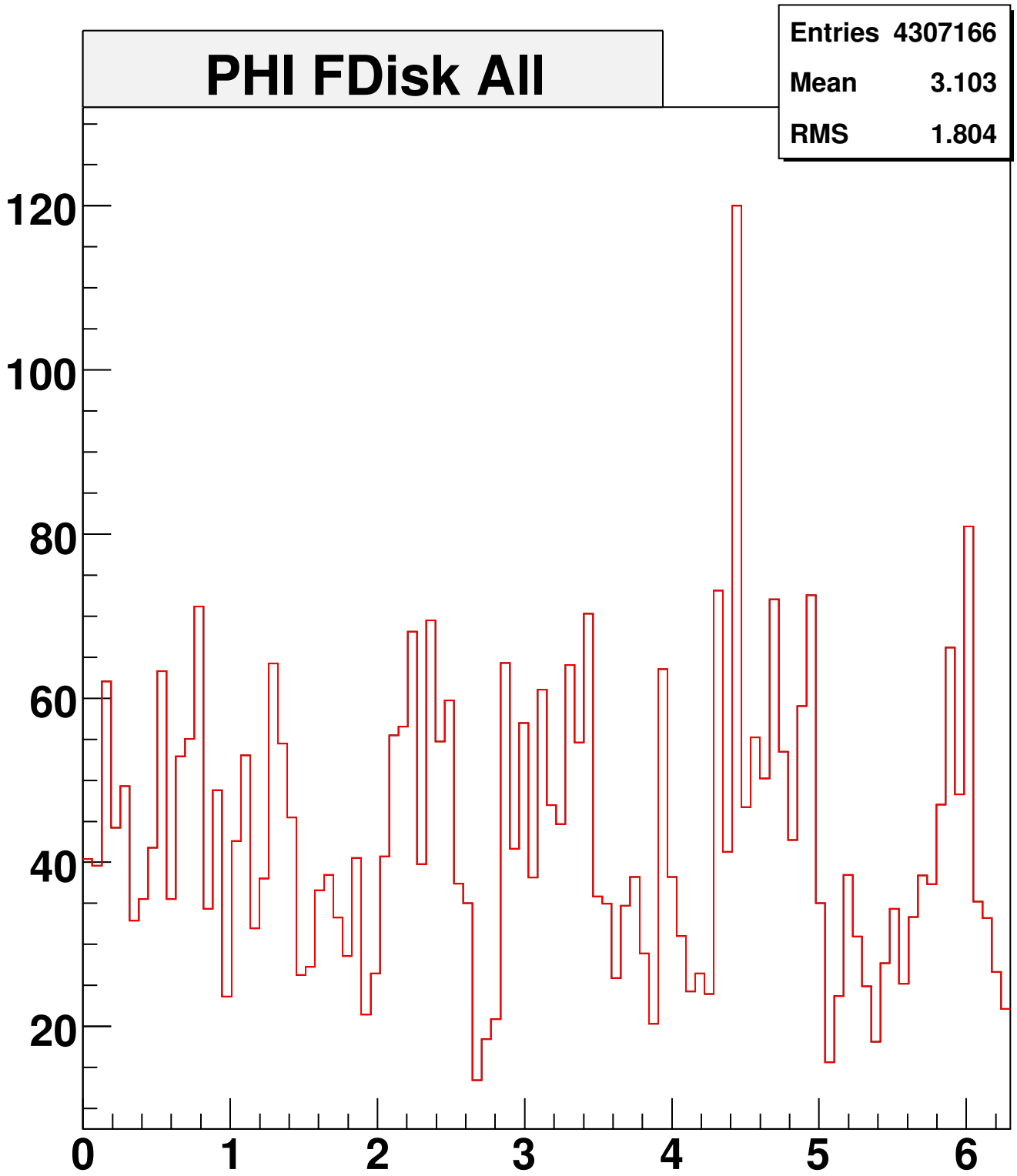






CPS Clusters (All Clusters)


PHI
Entries 1.172155e+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 4307166
Mean 3.103
RMS 1.804
120
100
80
60
40
20
0
1
2
3
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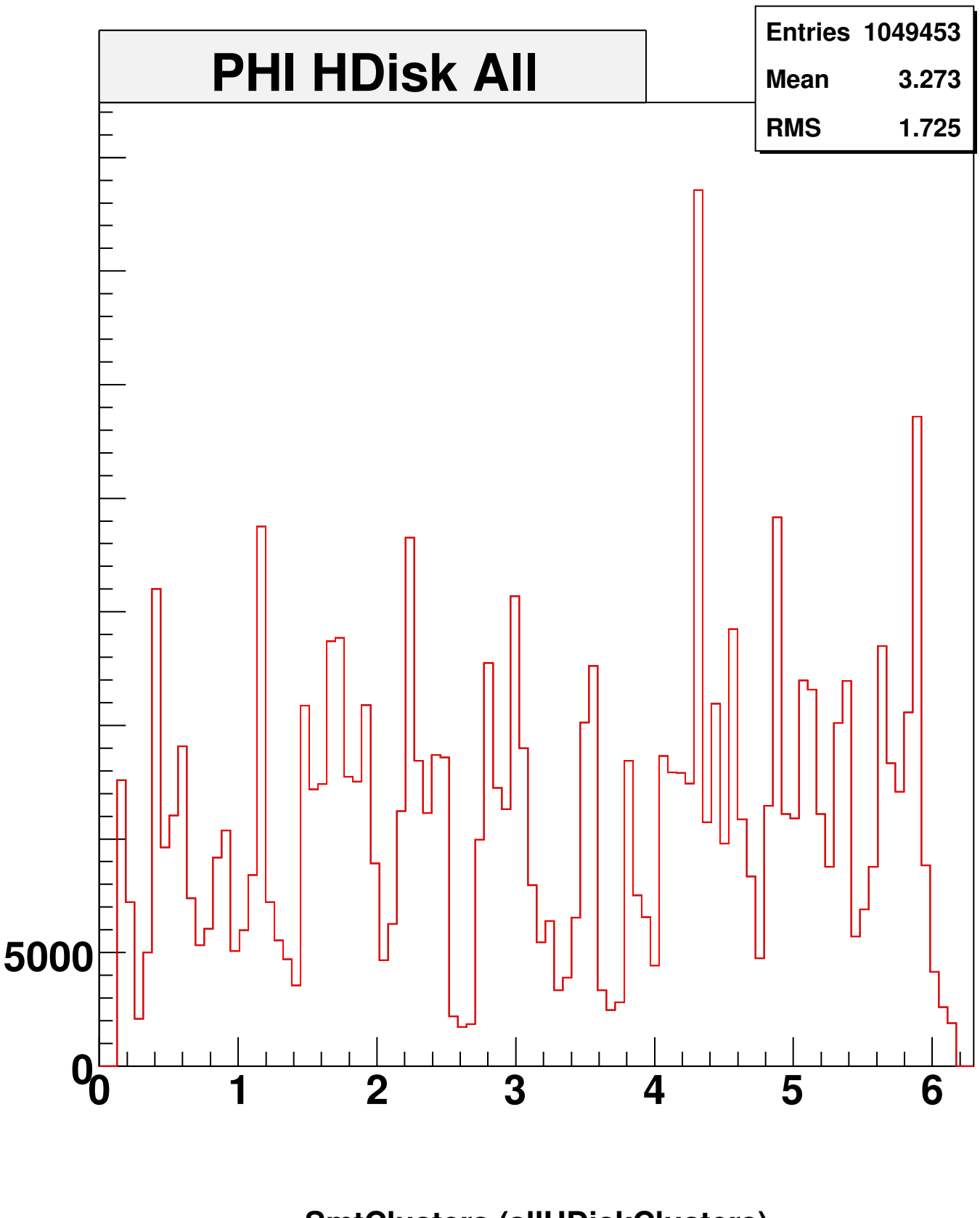
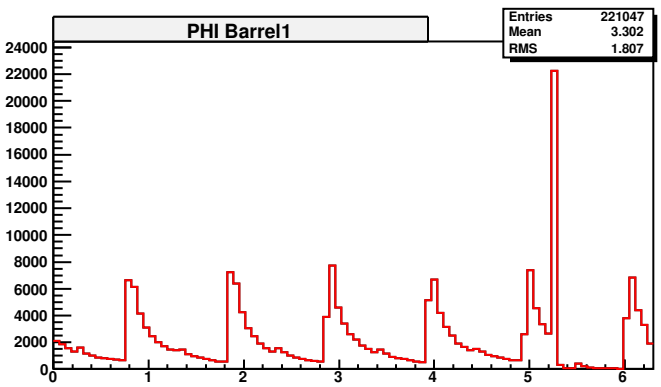
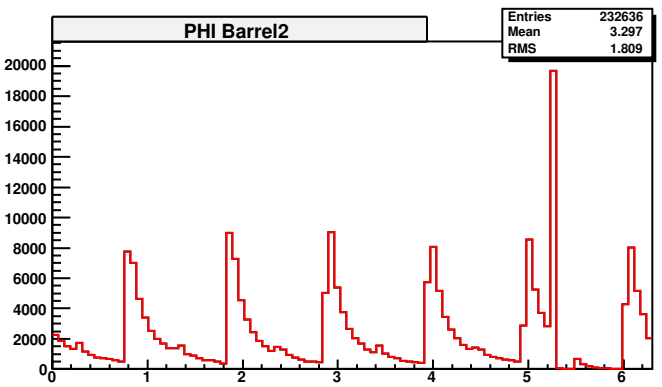
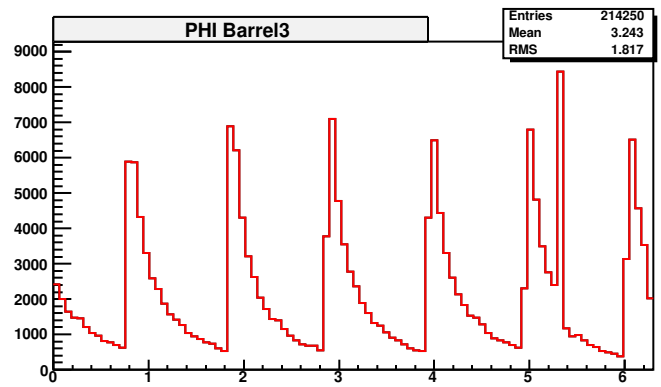
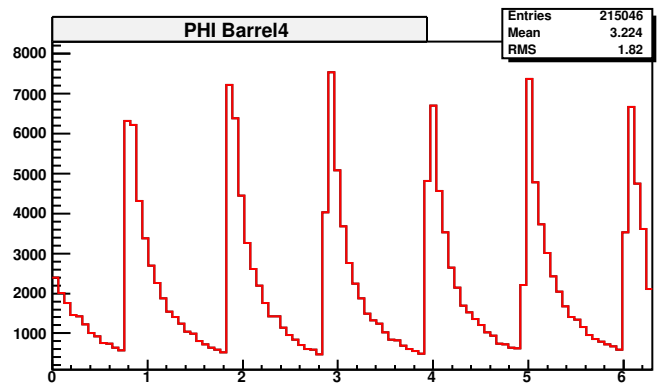
5
6
SmtClusters (allFDiskClusters)

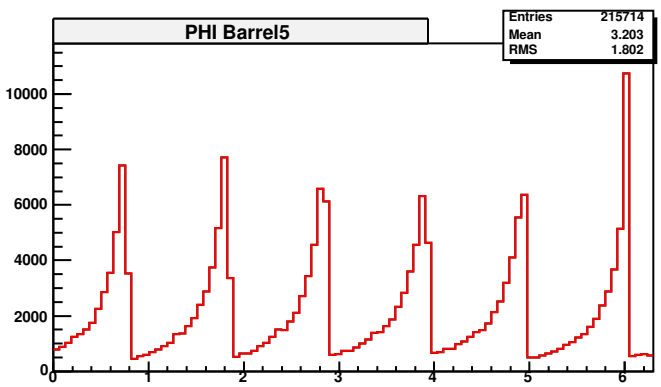

PHI HDisk All
Entries 1049453
Mean 3.273
RMS 1.725
5000
0
0
1
2
3
4
5
6
SmtClusters (allHDiskClusters)

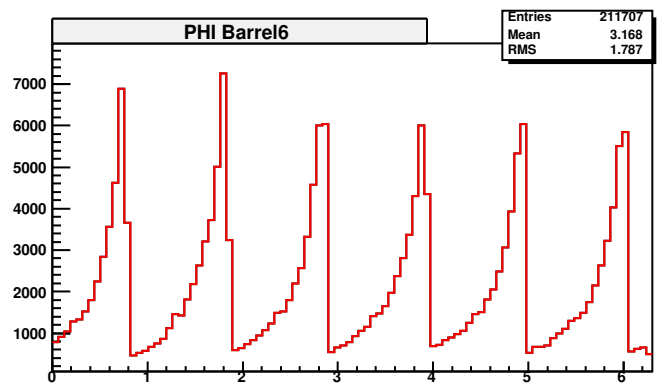


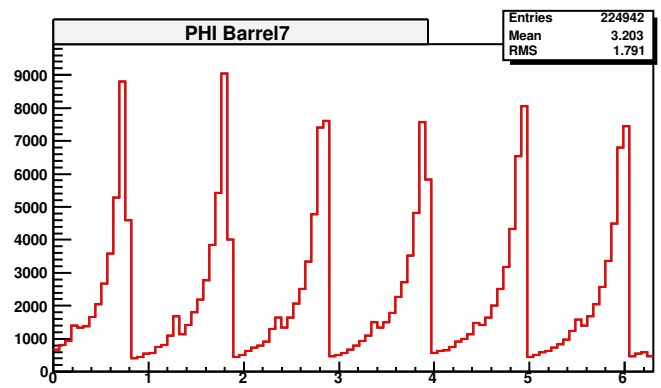


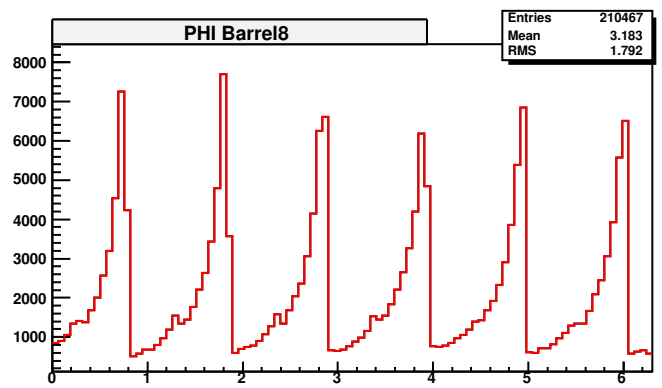




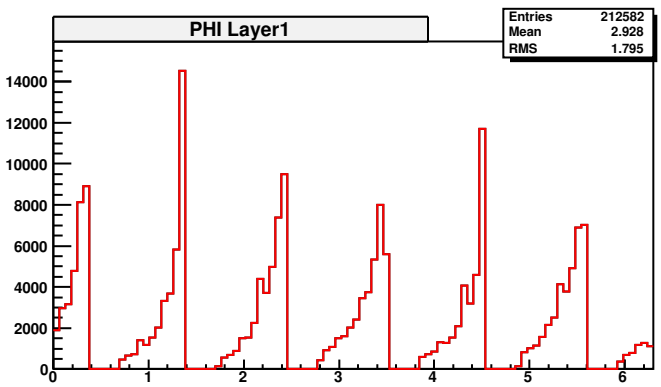


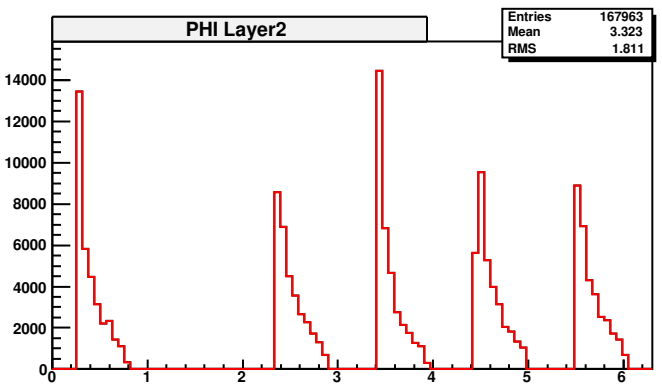


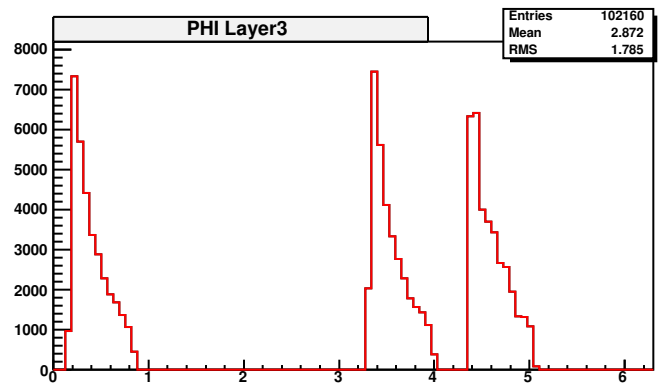


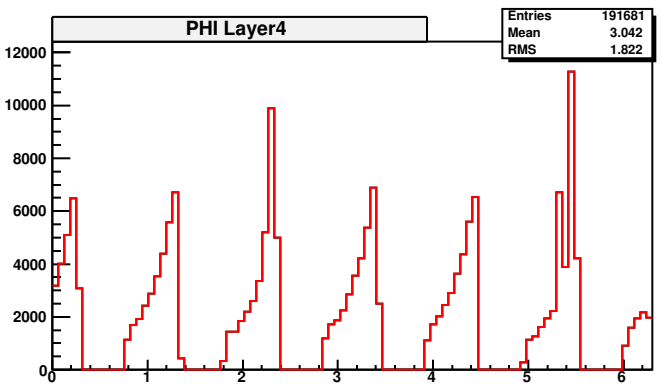


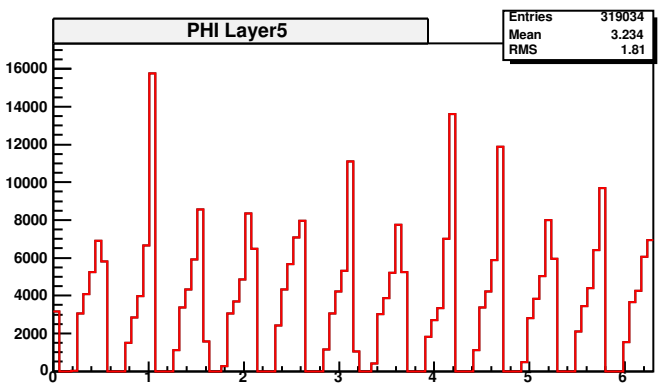
SmtClusters (ClustrLayer0)

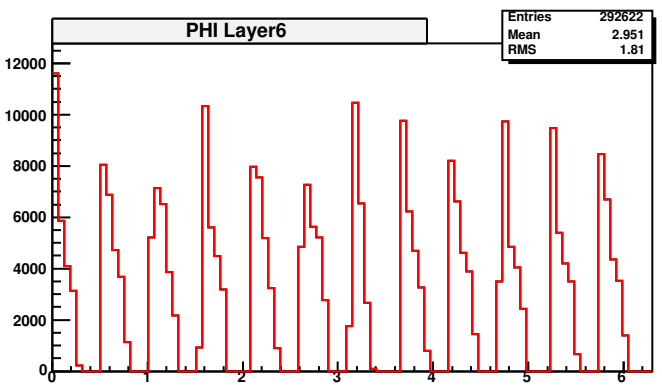


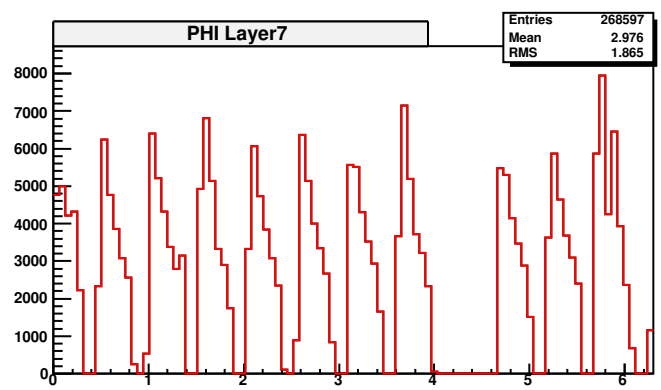


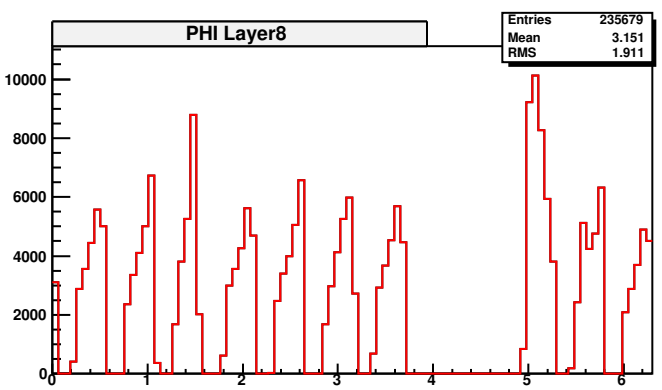




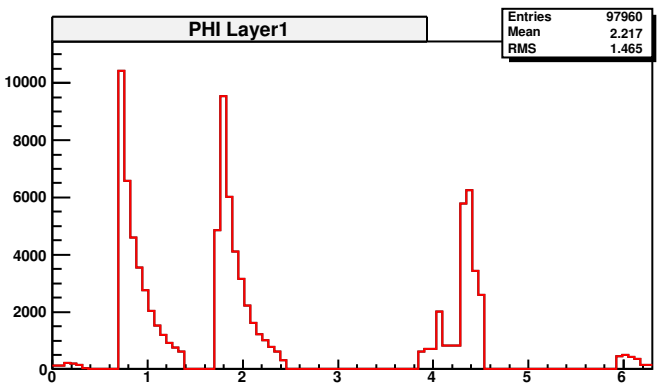


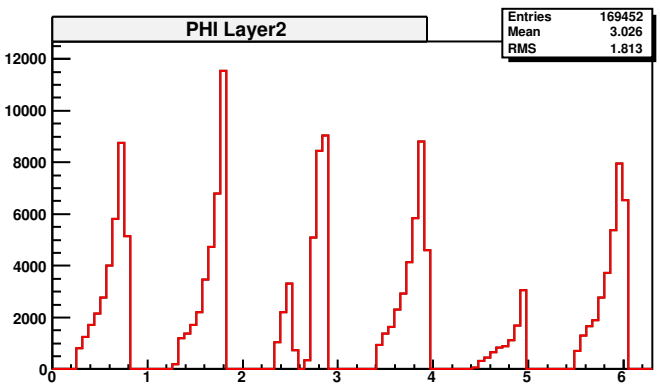


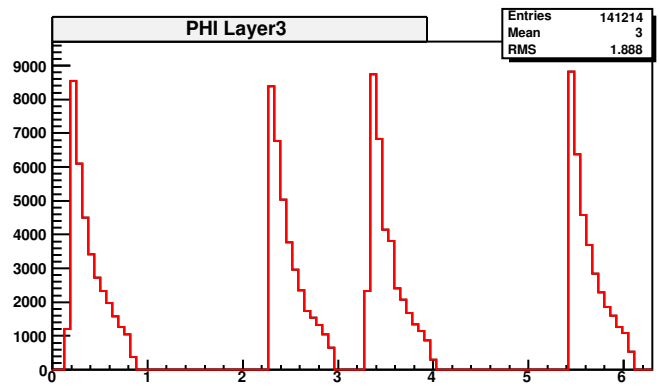


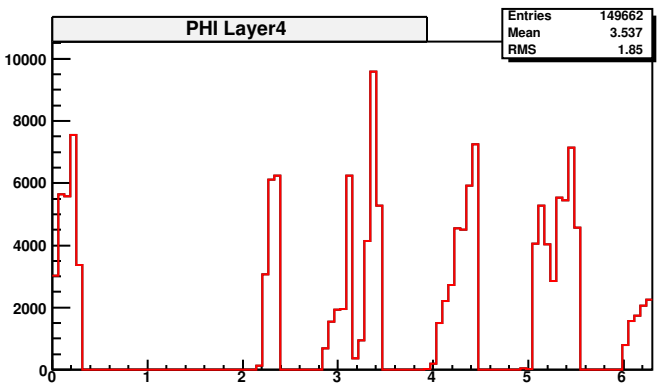


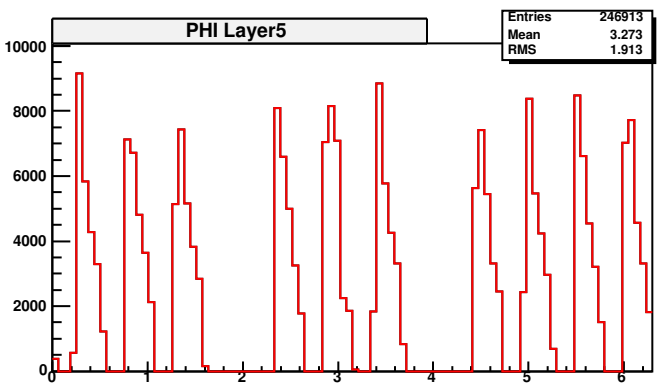
SmtClusters (ClustrBar1)

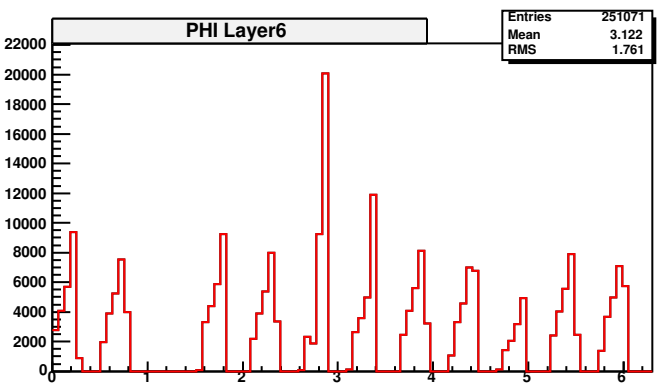


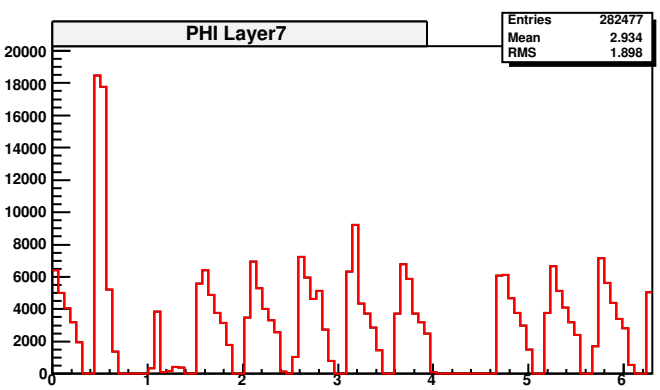


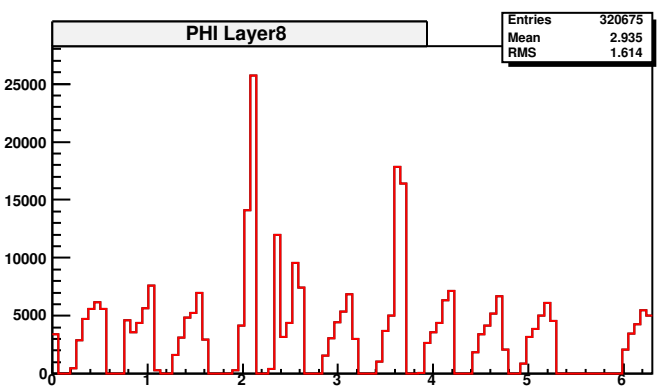




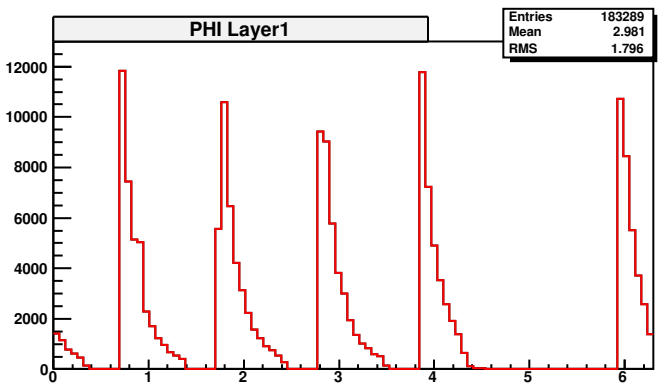


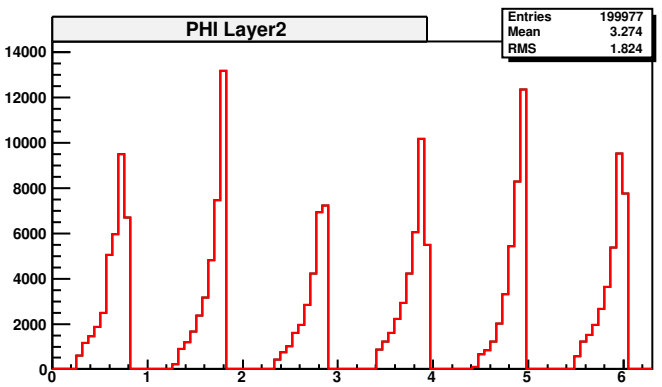


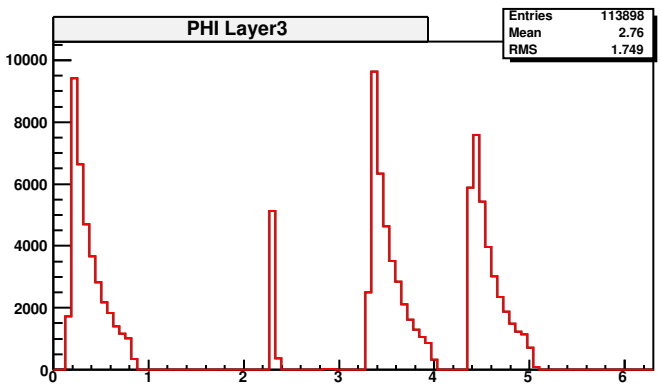


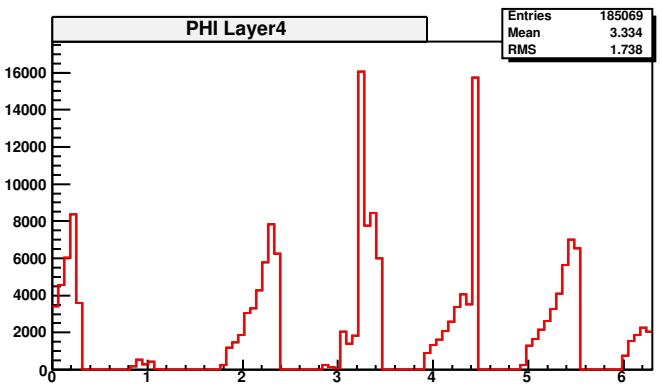


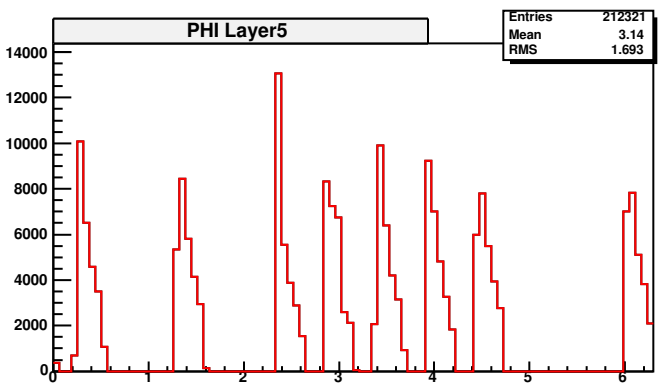
SmtClusters (ClustrBar2)

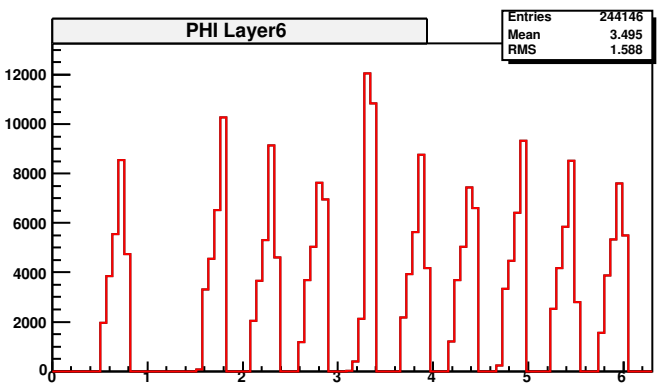


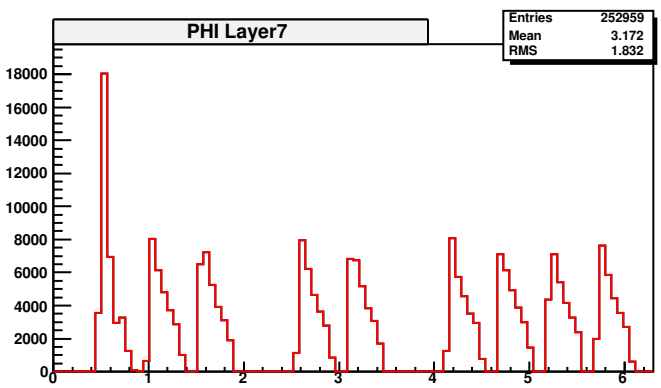


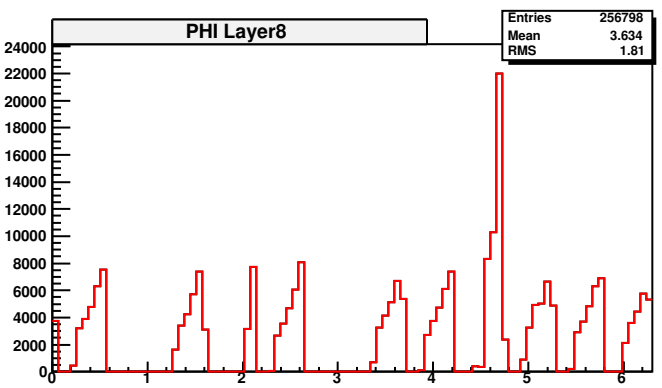




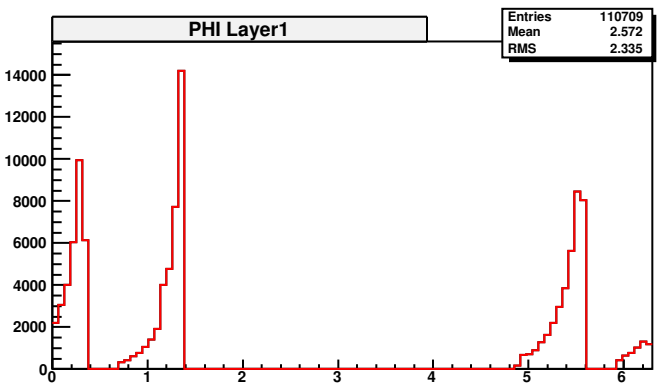


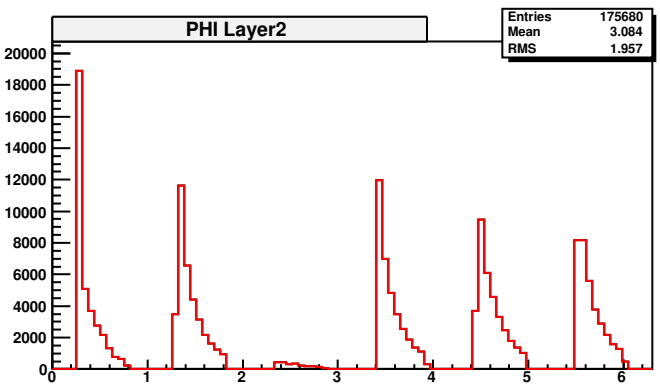


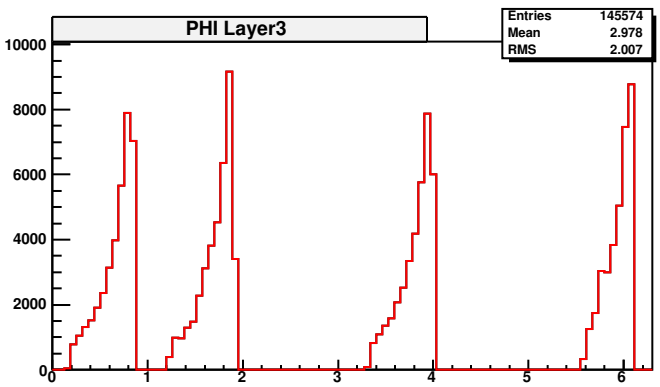


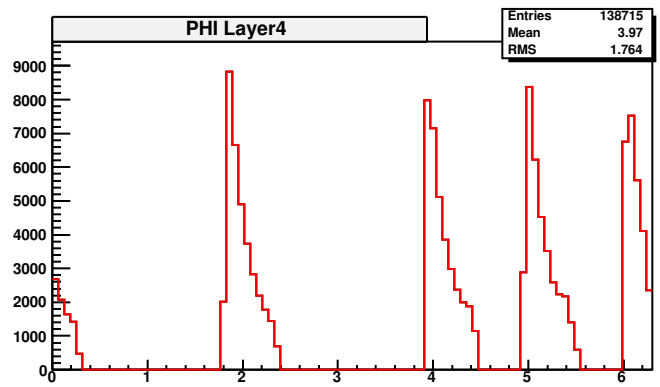


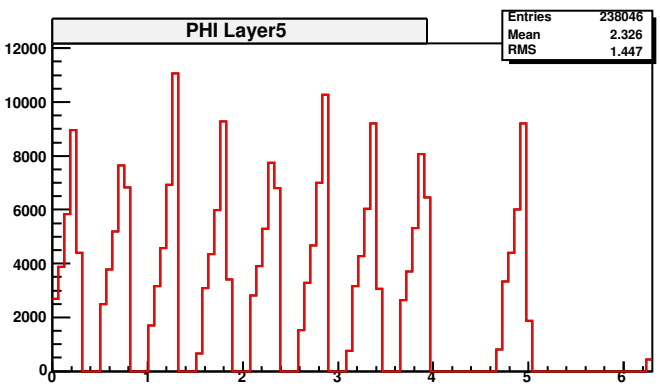
SmtClusters (ClustrBar3)

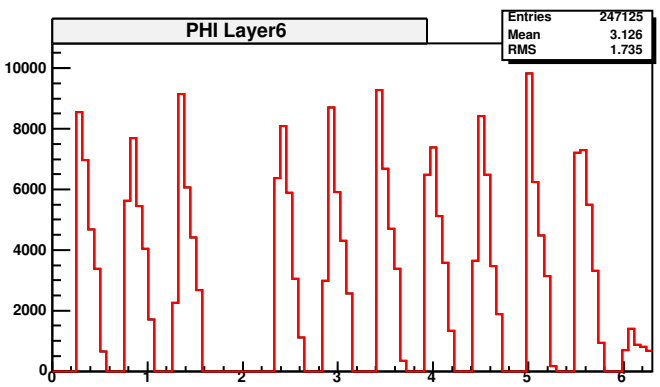


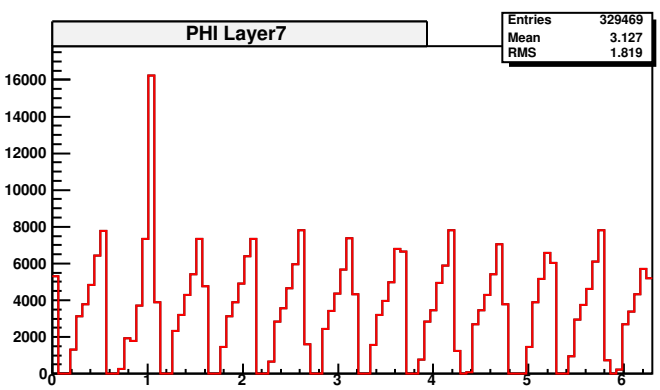


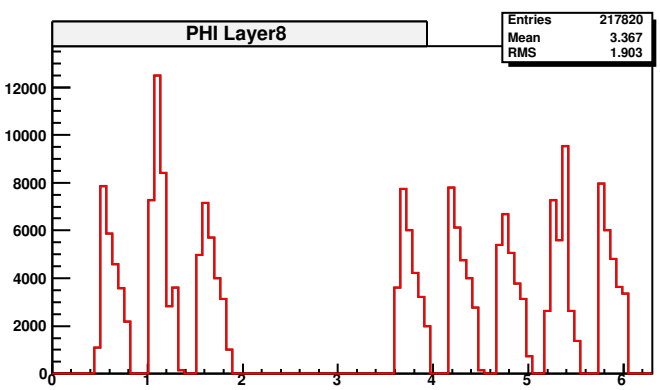




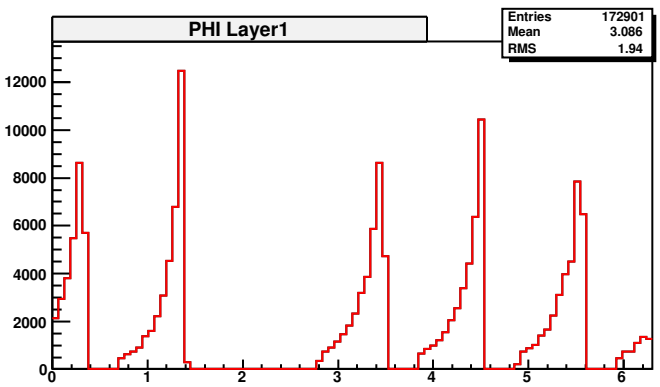


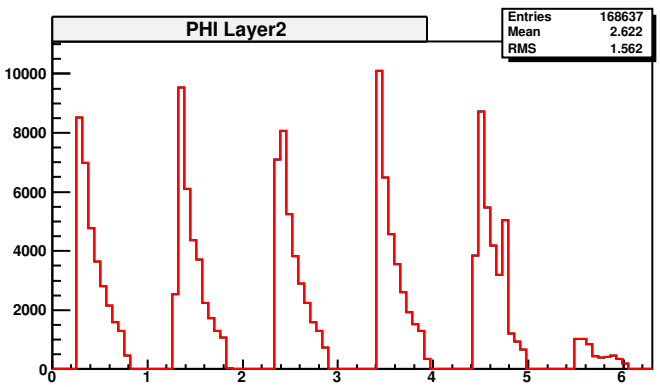


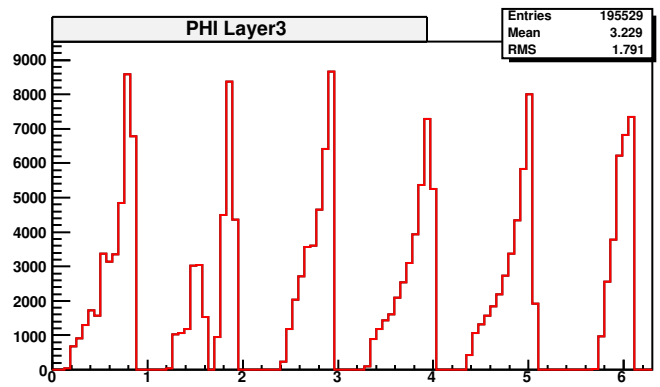


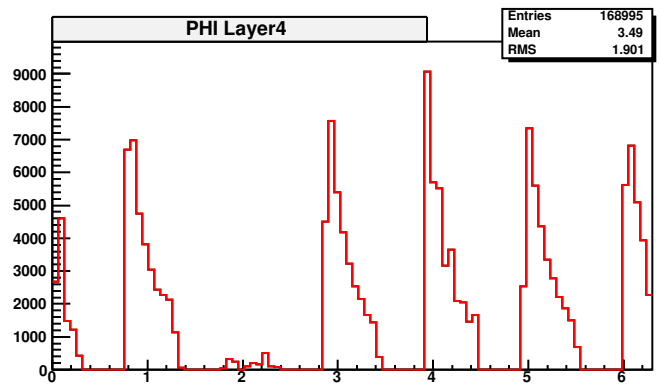


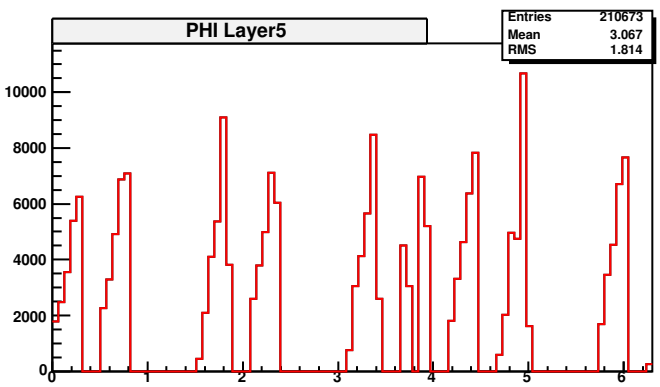
SmtClusters (ClustrBar4)

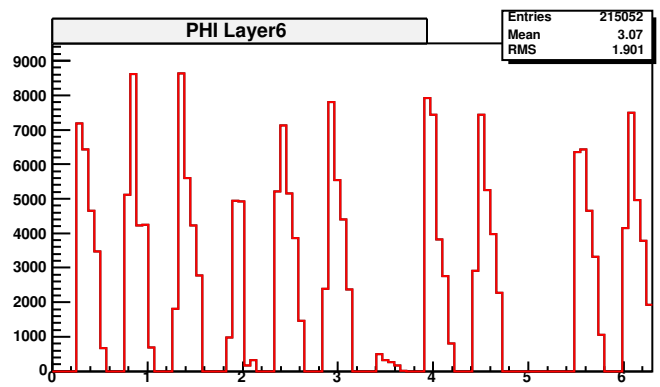


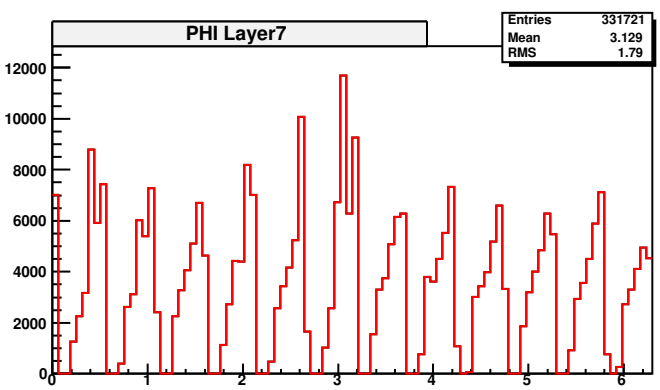


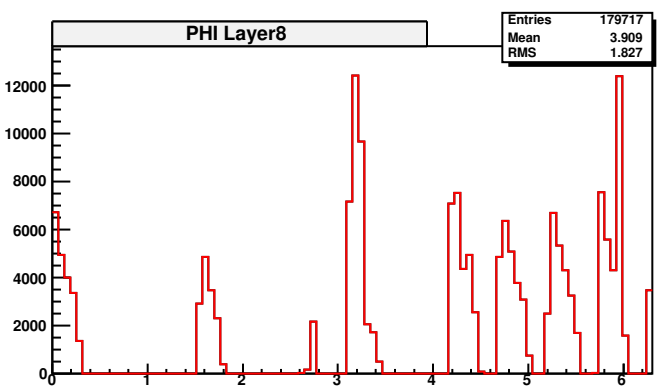




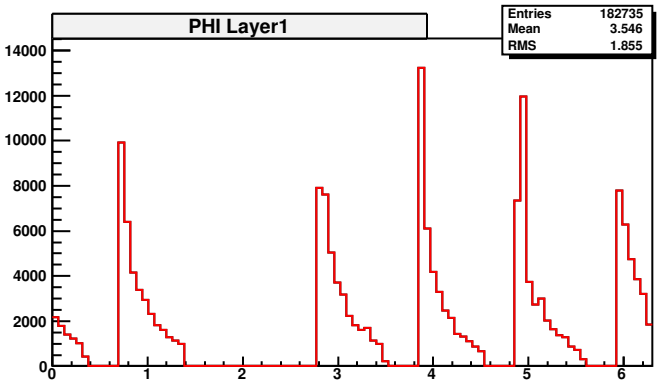


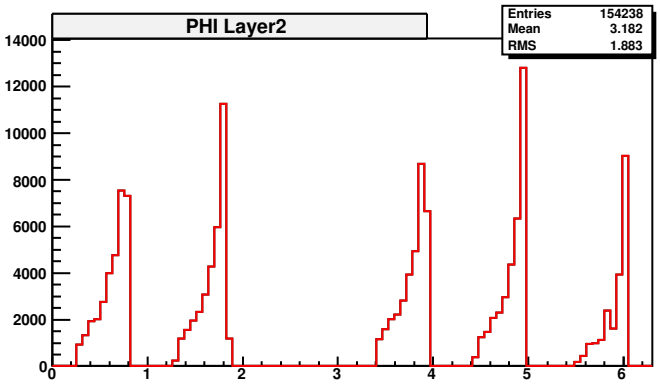


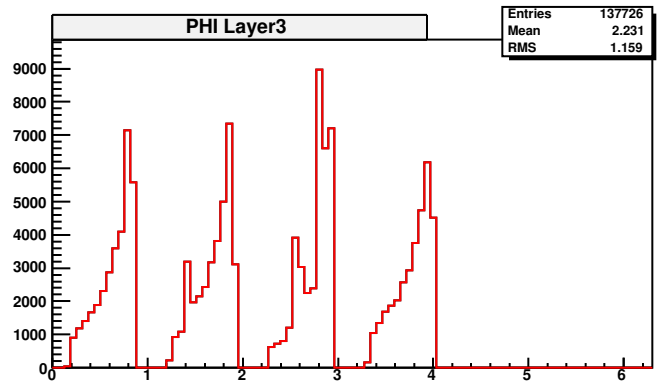


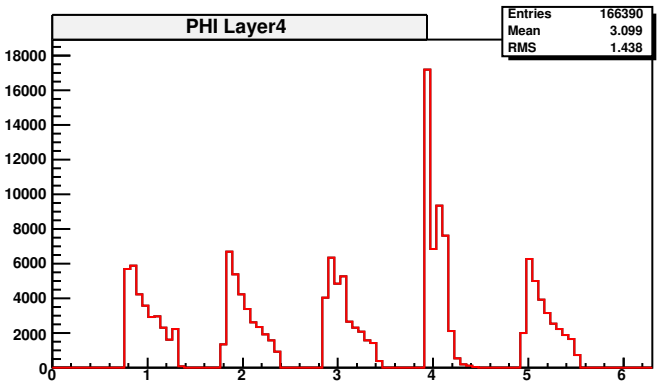


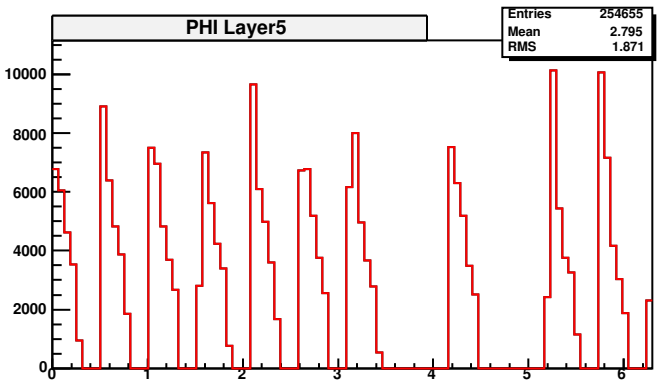
SmtClusters (ClustrBar5)

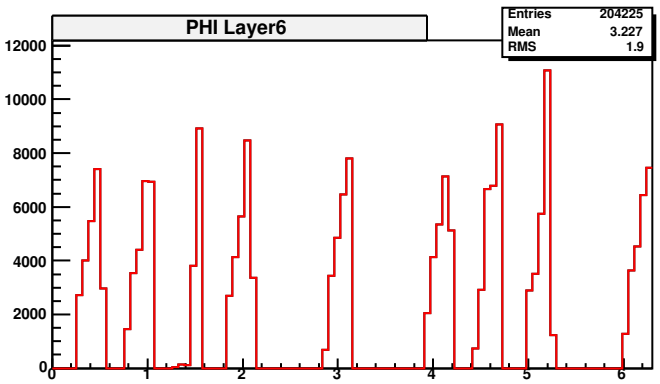


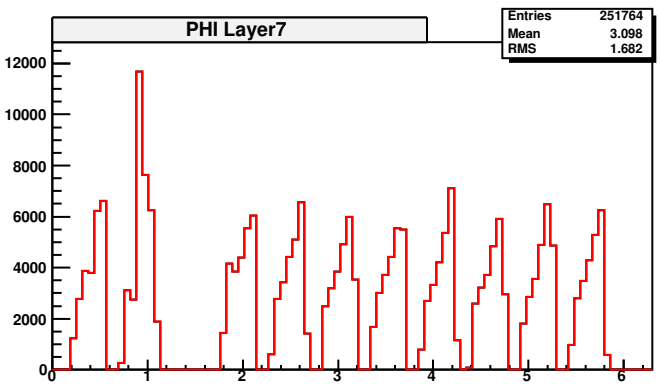


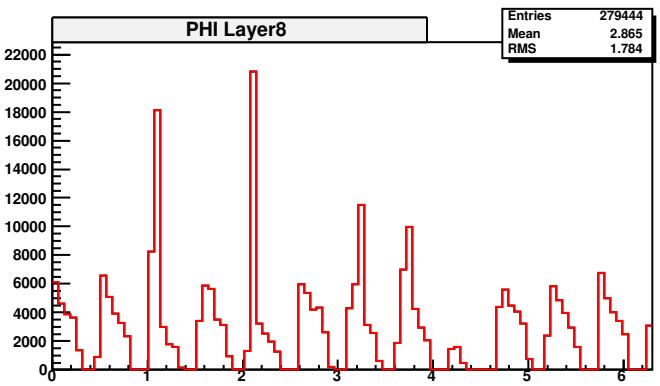




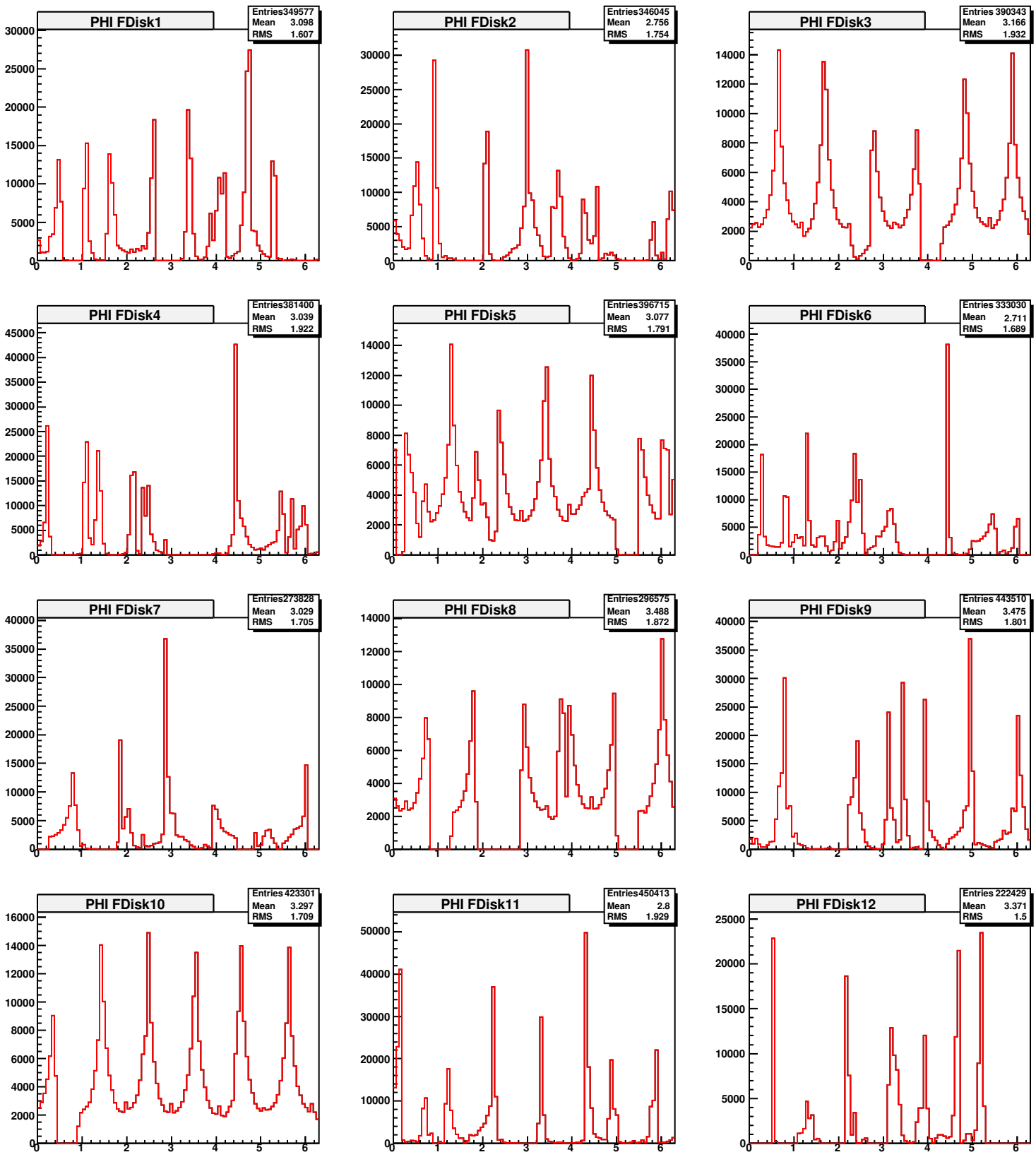




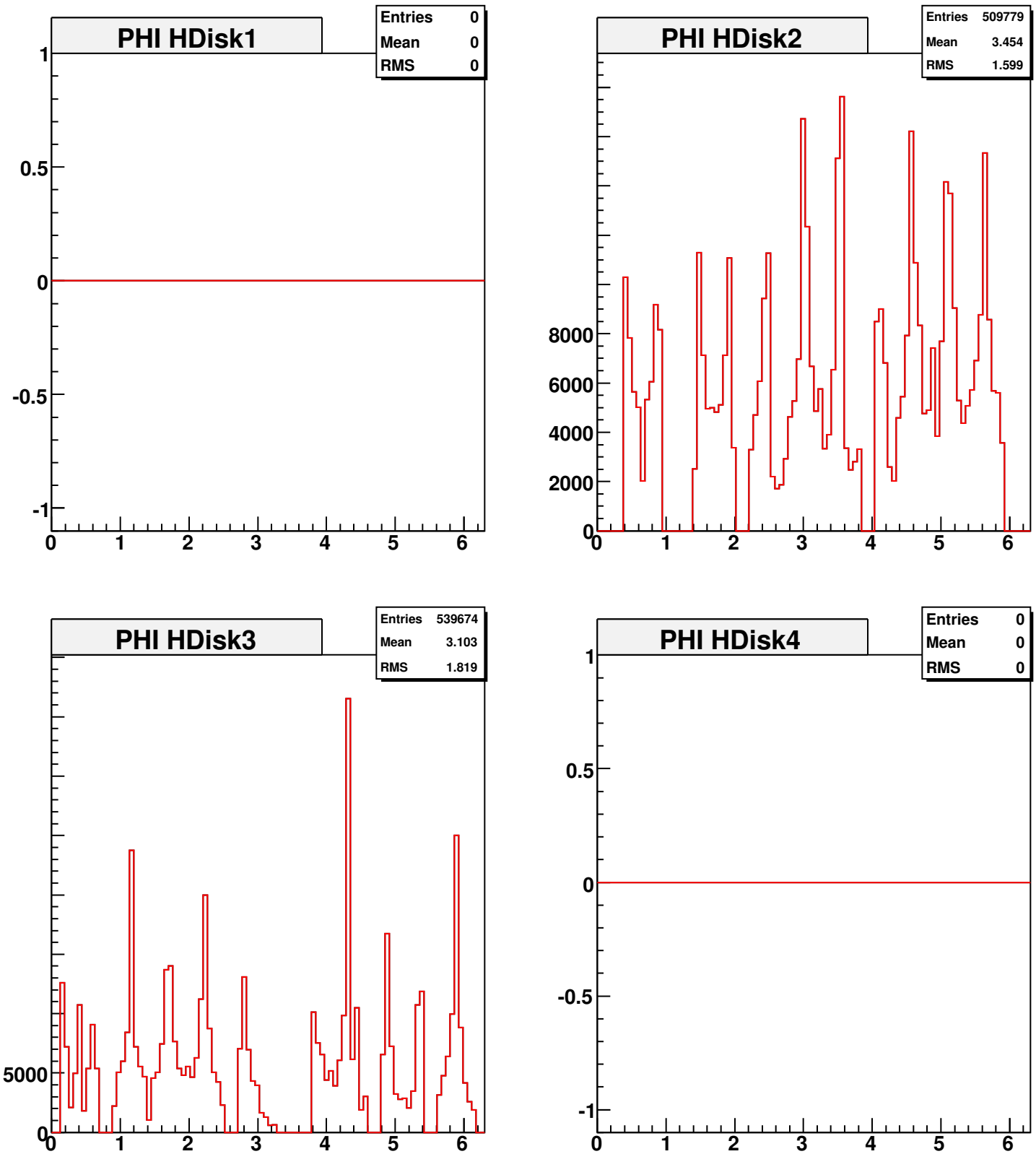




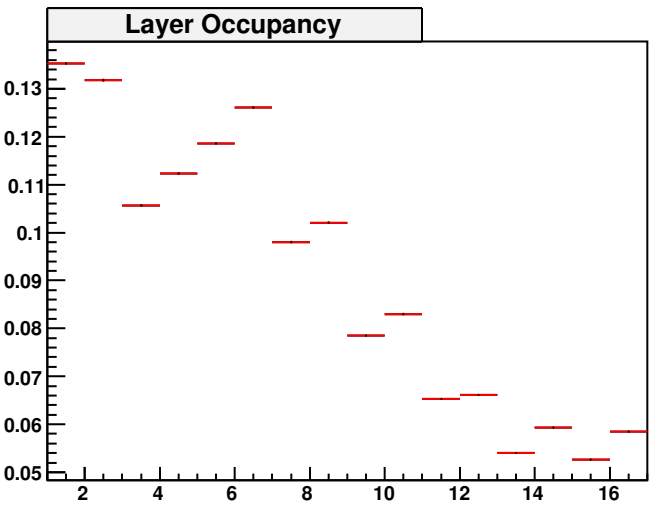
SmtClusters (ClustrBar6)

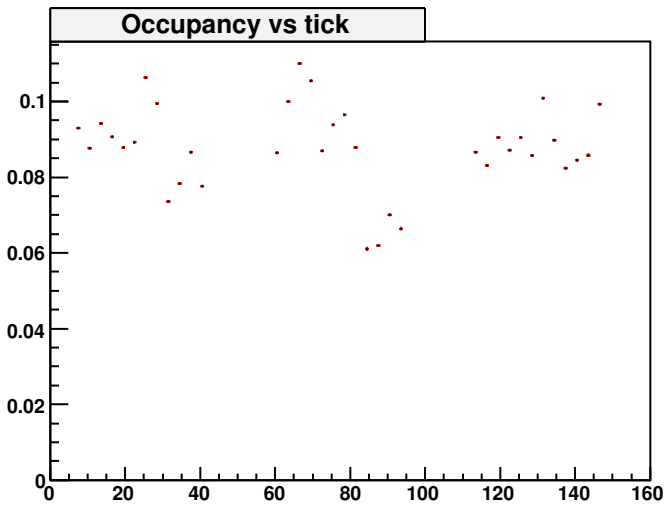


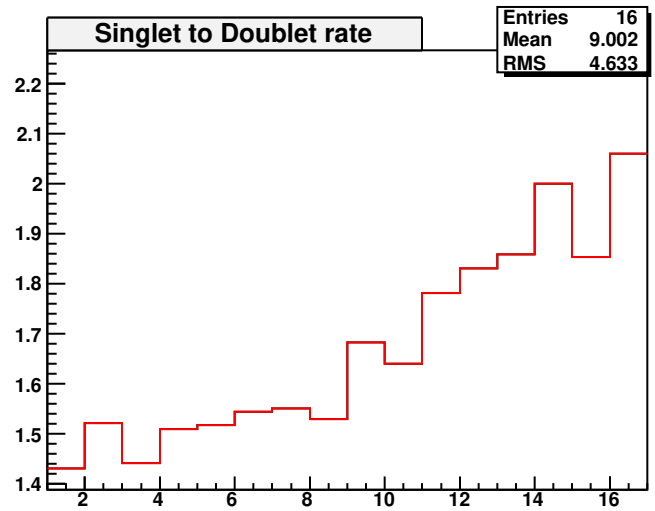
SmtClusters (FDiskClusters)

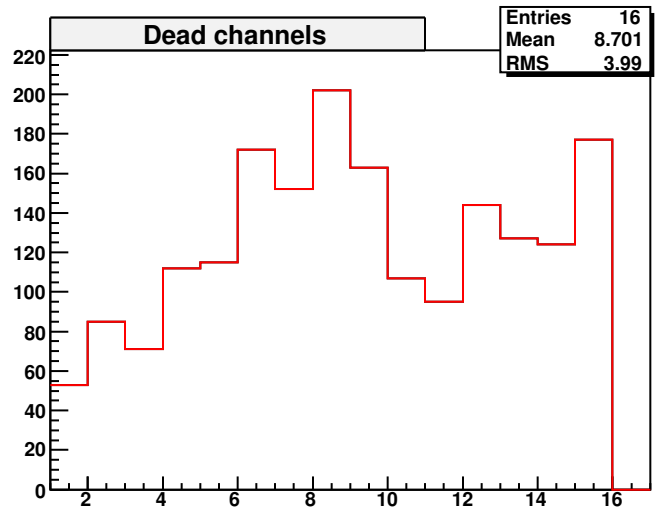


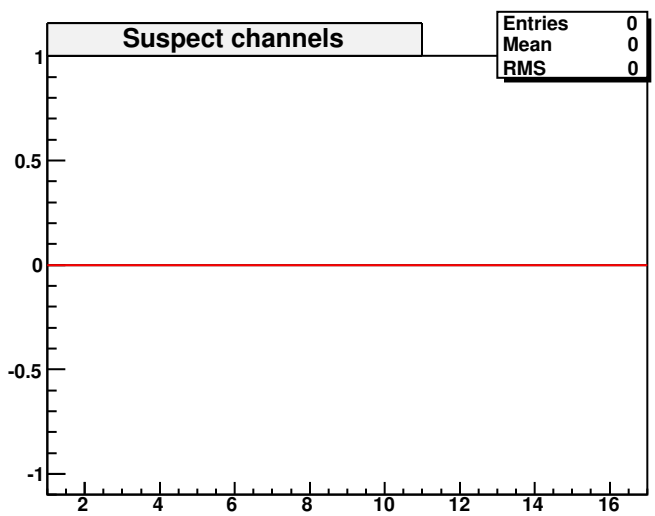
SmtClusters (HDiskClusters)

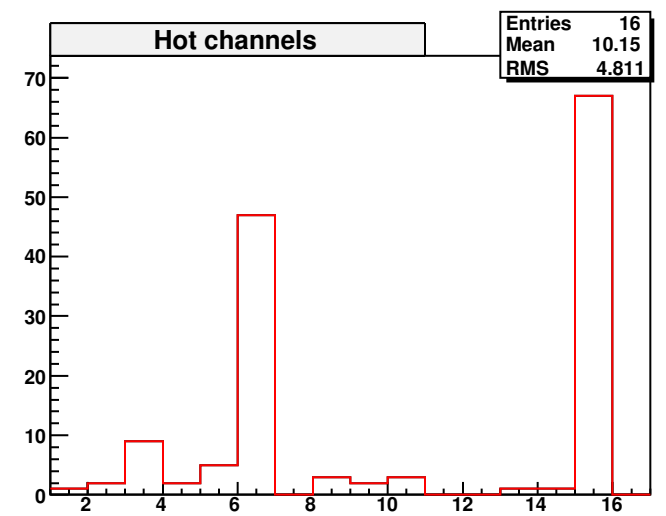




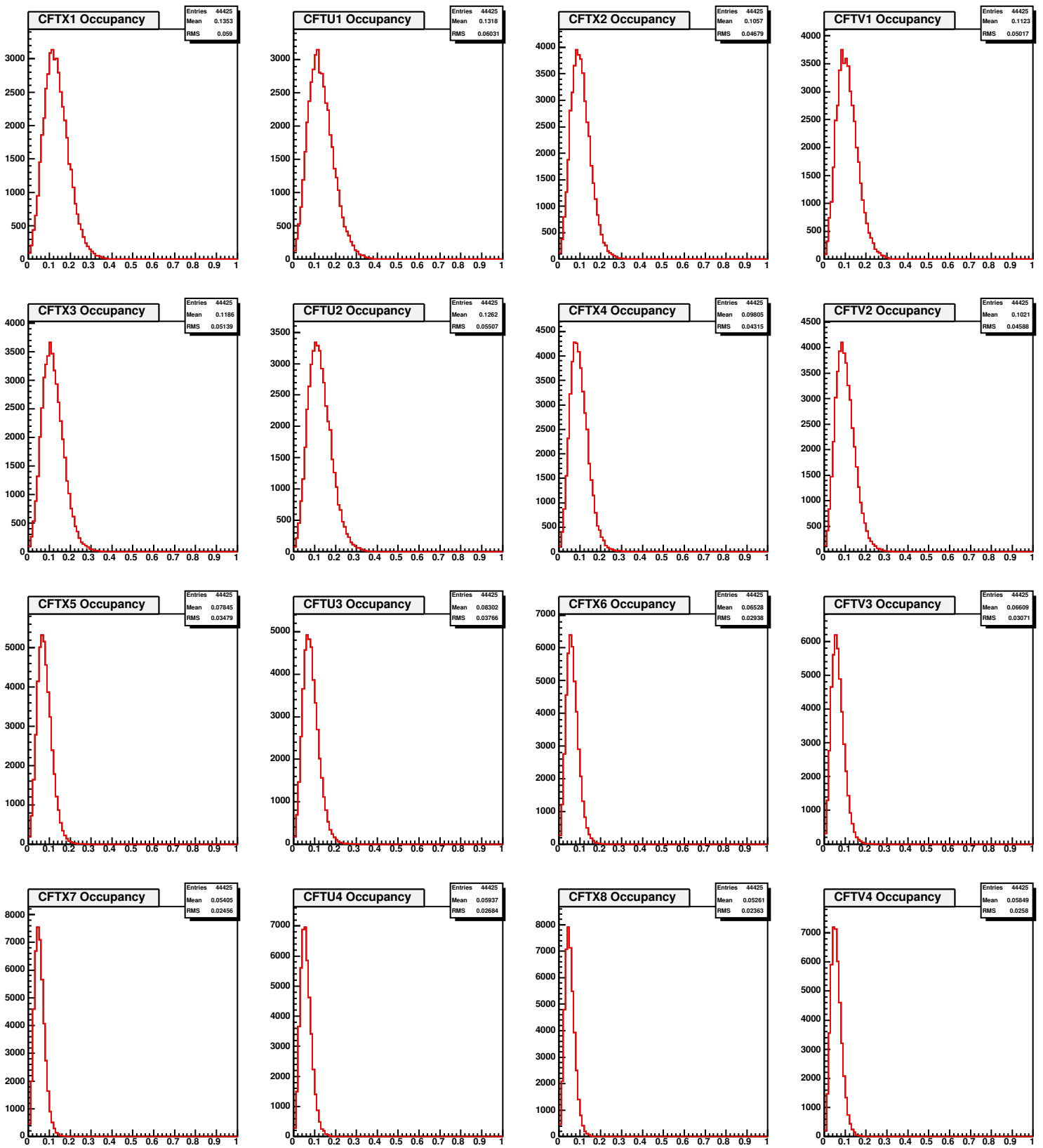




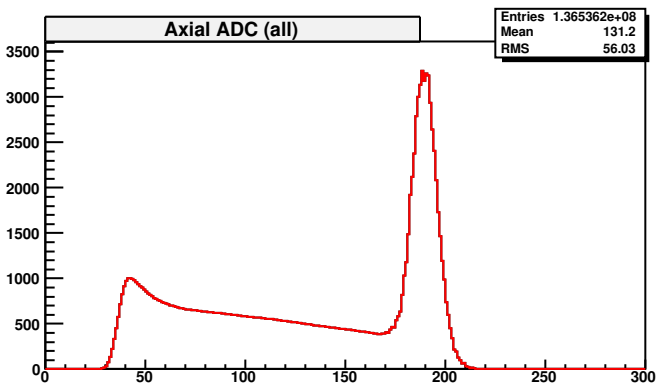


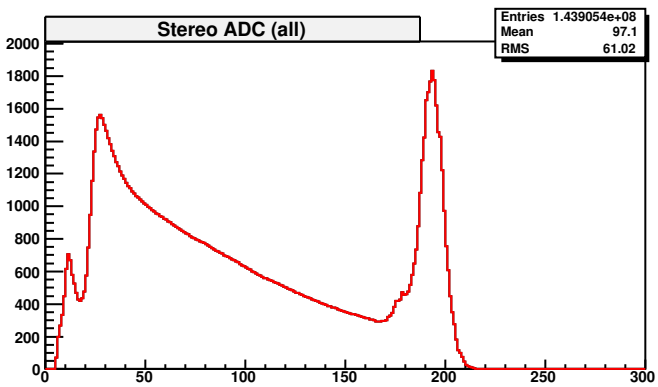


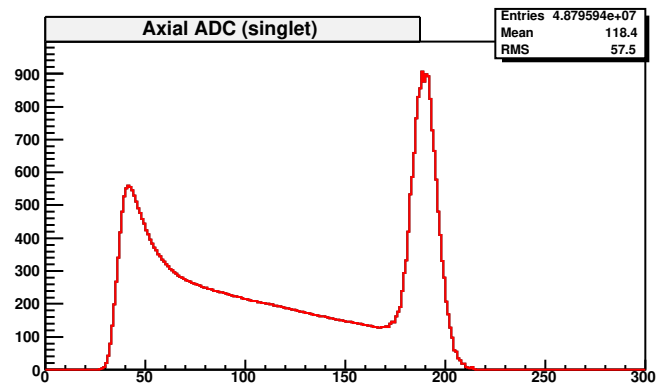
CFT Summary (All Clusters)

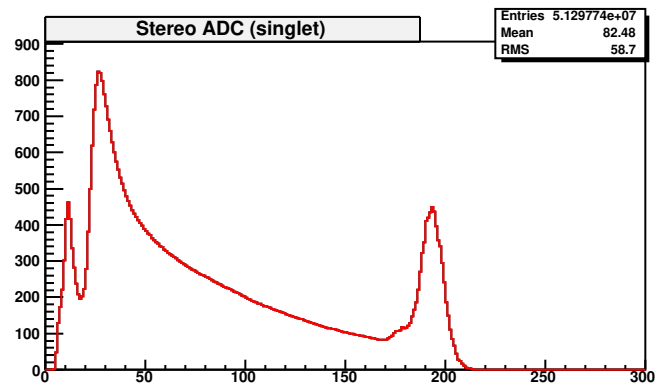


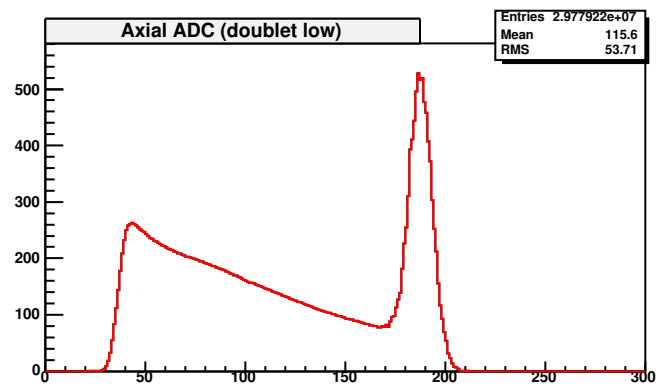
CFT Occupancy (All Clusters)

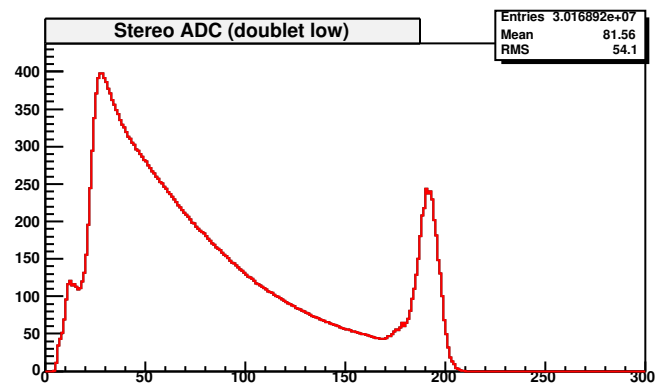


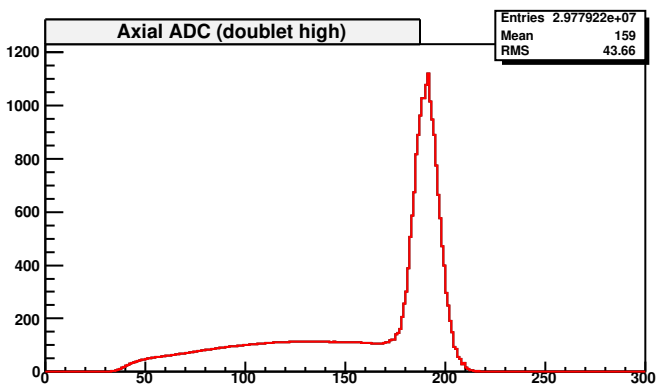


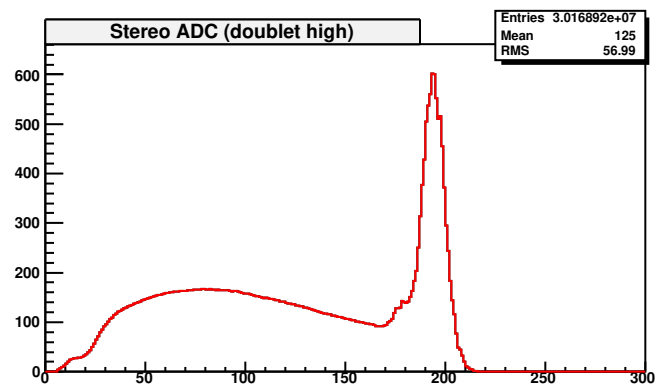




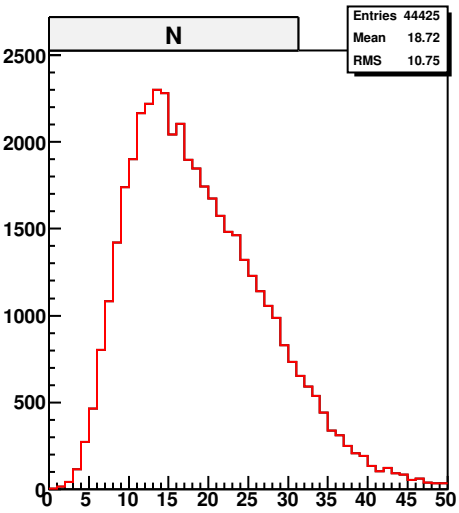


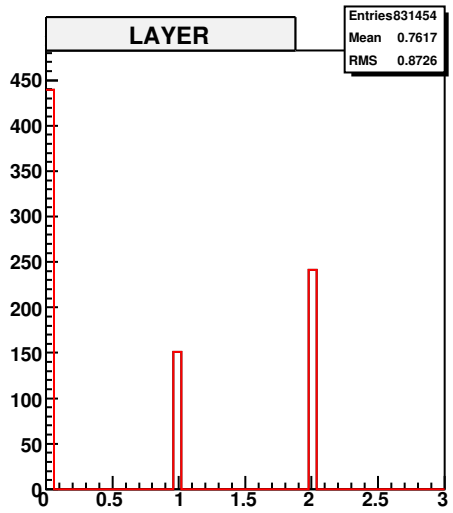


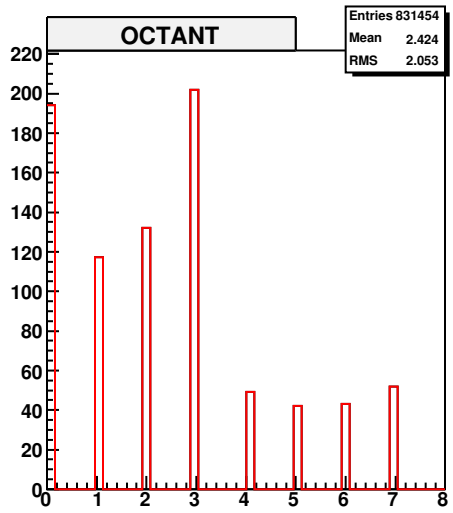


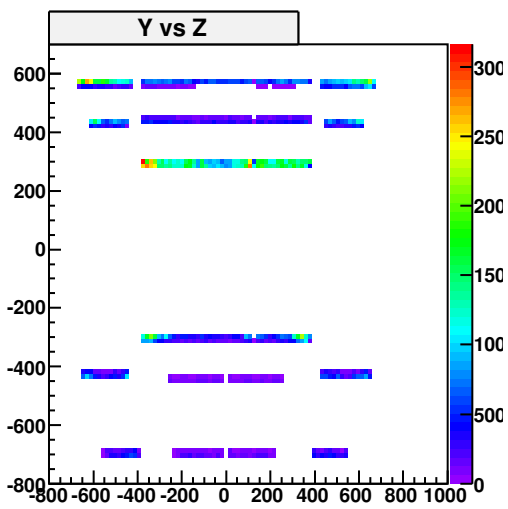


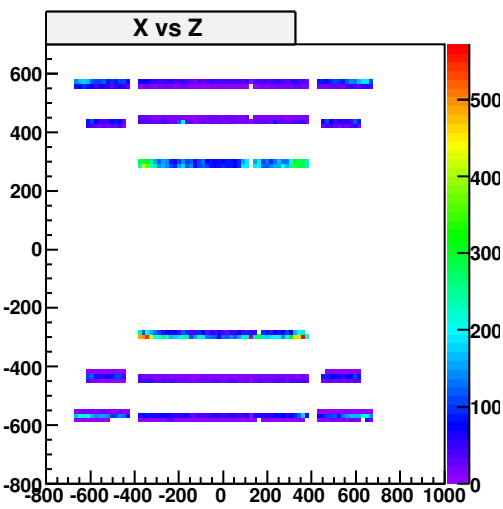
CFT ADC Summary (All Clusters)

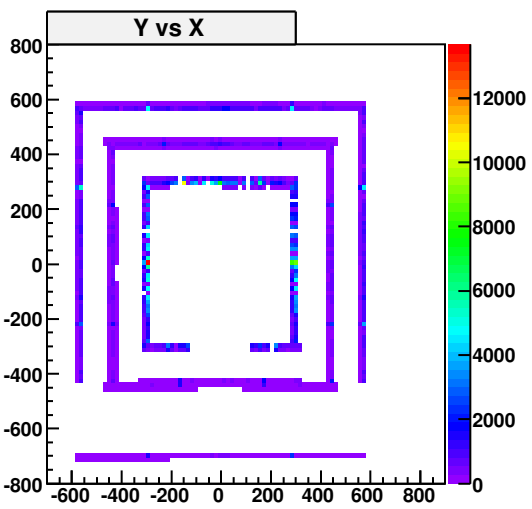

N
Entries 44425
Mean 18.72
RMS 10.75

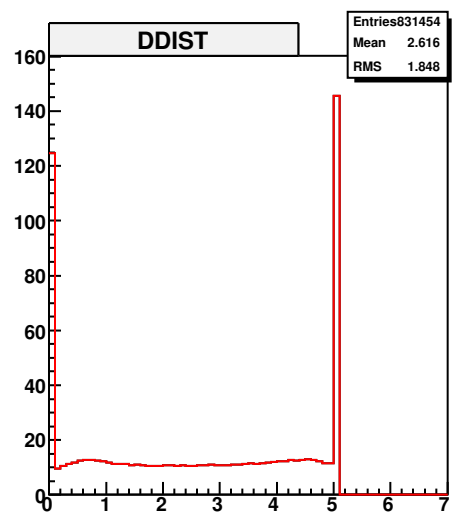

LAYER
Entries 831454
Mean 0.7617
RMS 0.8726

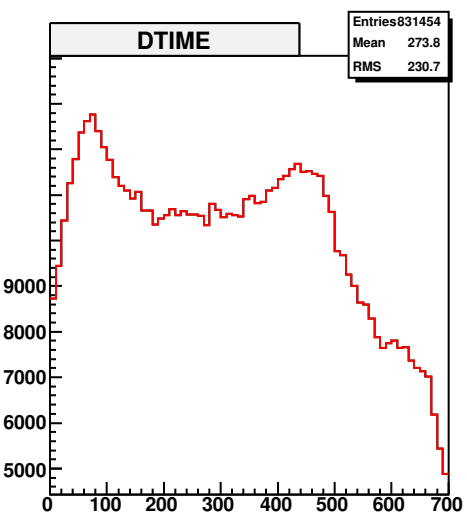

OCTANT
Entries 831454
Mean 2.424
RMS 2.053


Y vs Z

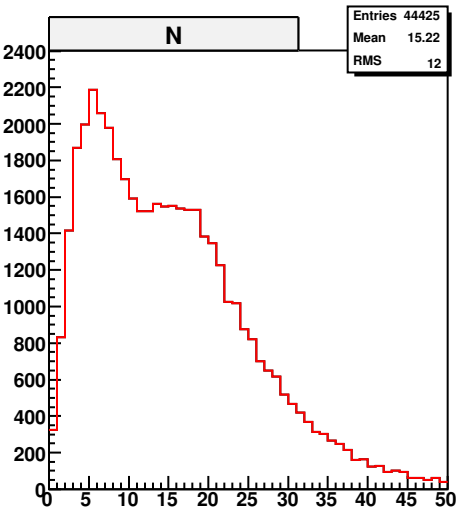

X vs Z

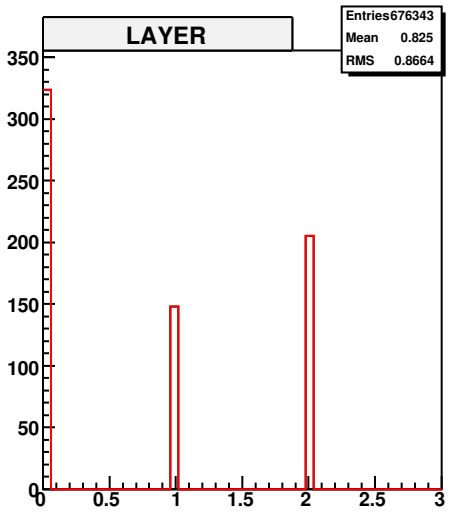

Y vs X

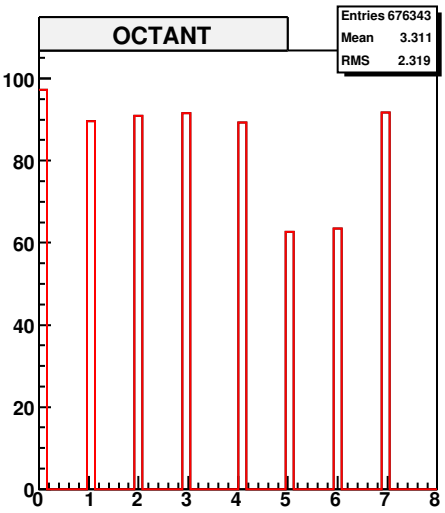

DDIST
Entries 831454
Mean 2.616
RMS 1.848

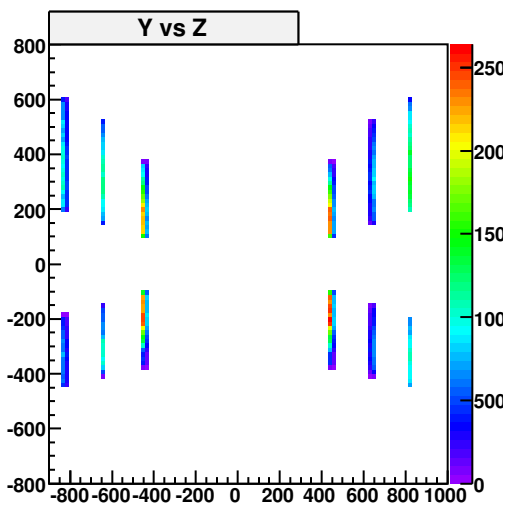

DTIME
Entries 831454
Mean 273.8
RMS 230.7

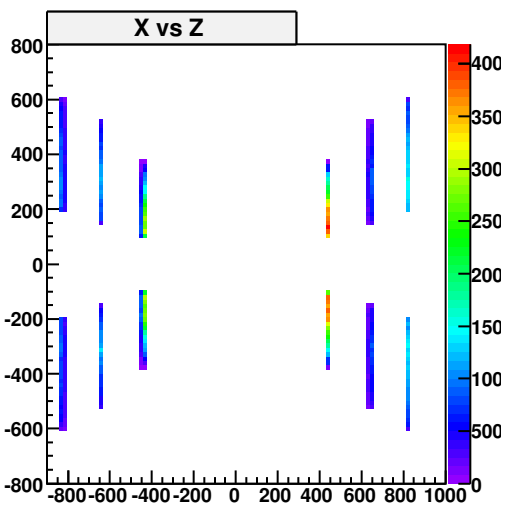
MuonPDT (All)

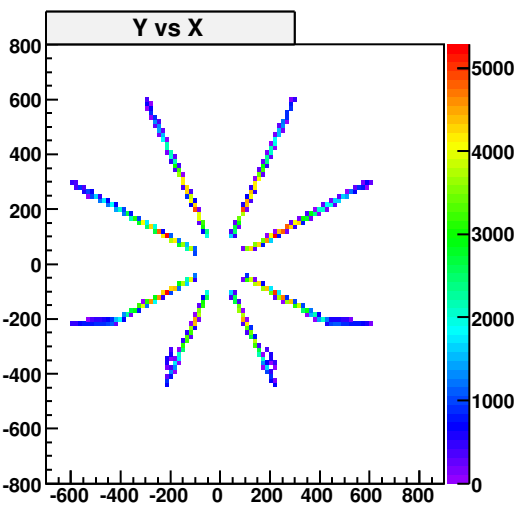

N
Entries 44425
Mean 15.22
RMS 12

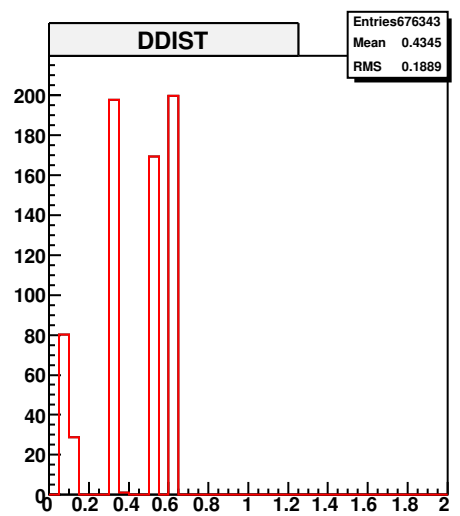

LAYER
Entries676343
Mean 0.825
RMS 0.8664

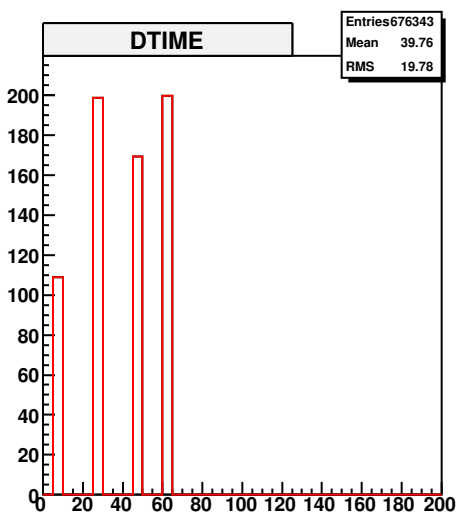

OCTANT
Entries 676343
Mean 3.311
RMS 2.319


Y vs Z

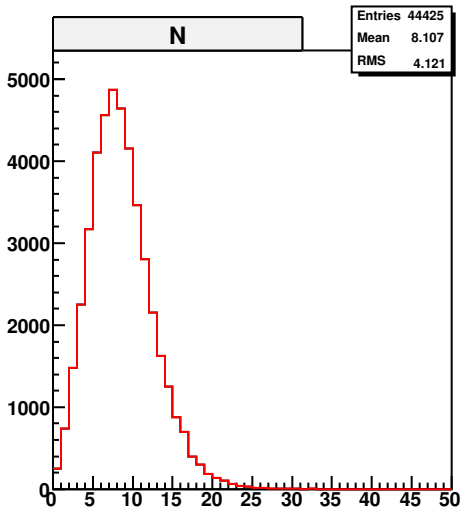

X vs Z

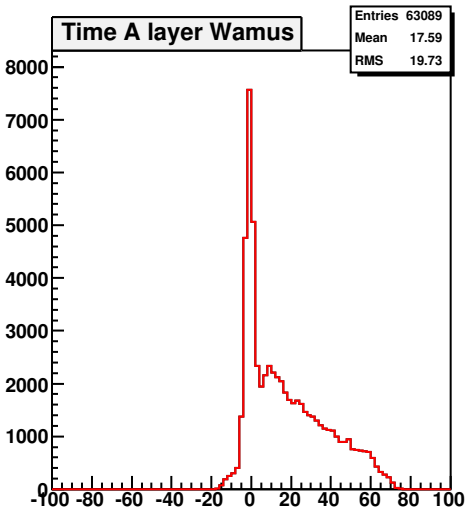

Y vs X

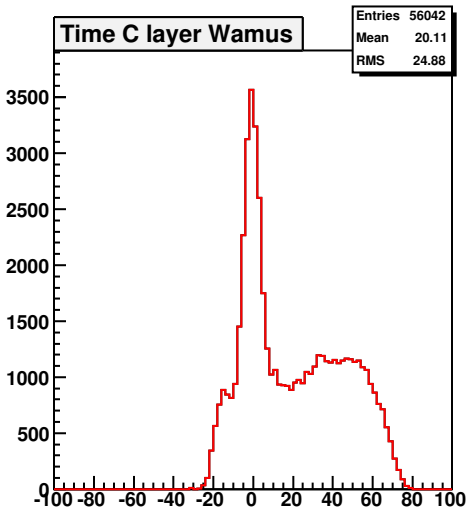

DDIST
Entries676343
Mean 0.4345
RMS 0.1889

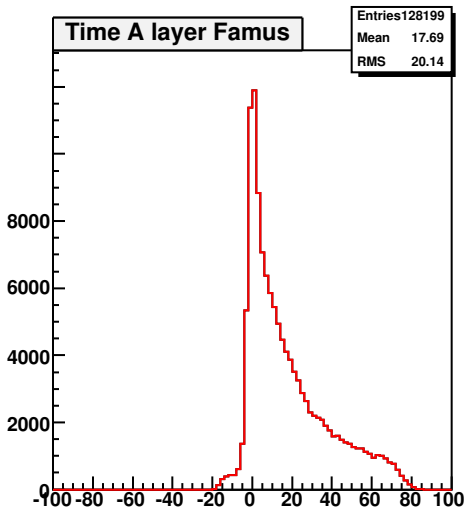

DTIME
Entries676343
Mean 39.76
RMS 19.78

MuonMDT (All)


N
Entries 44425
Mean 8.107
RMS 4.121


Time A layer Wamus
Entries 63089
Mean 17.59
RMS 19.73


Time C layer Wamus
Entries 56042
Mean 20.11
RMS 24.88


Time A layer Famus
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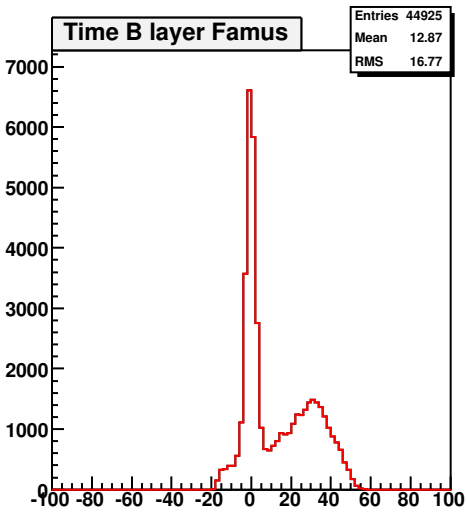
Mean 17.69
RMS 20.14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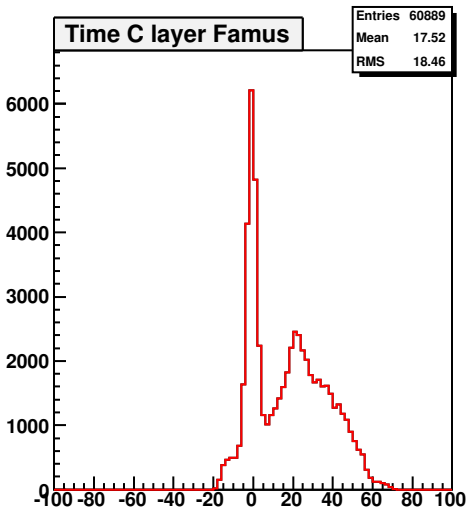
Mean 12.87
RMS 16.77


Time C layer Famus
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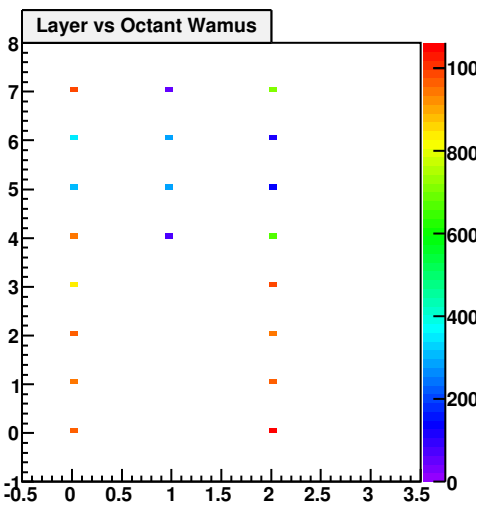
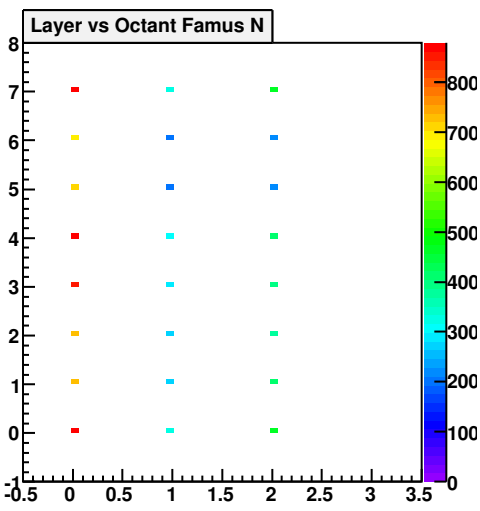
Mean 17.52
RMS 18.46


Layer vs Octant Wamus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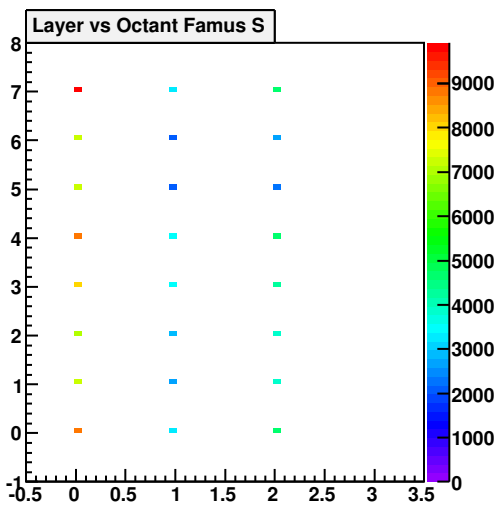
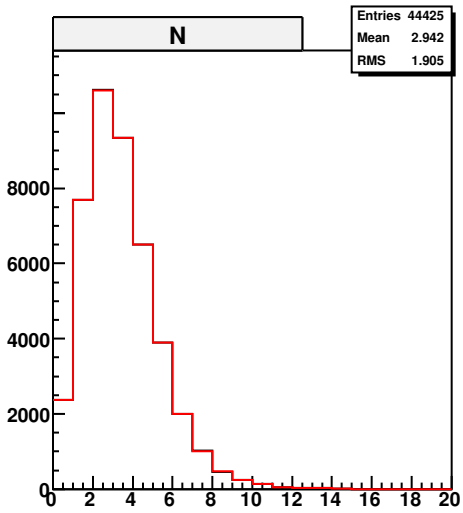
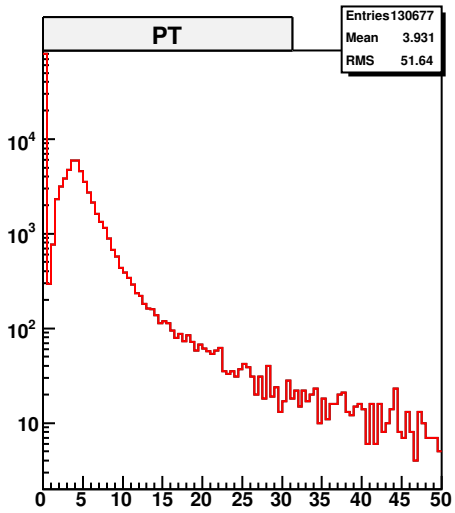
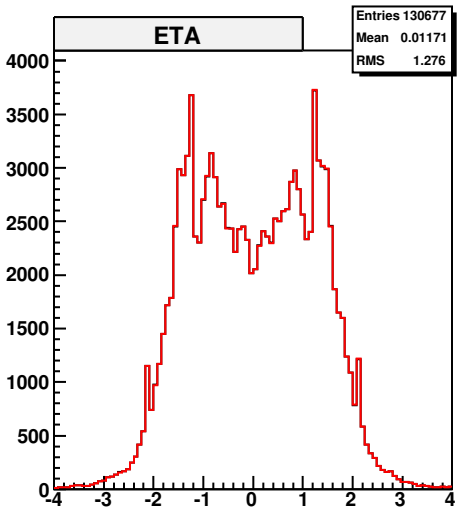
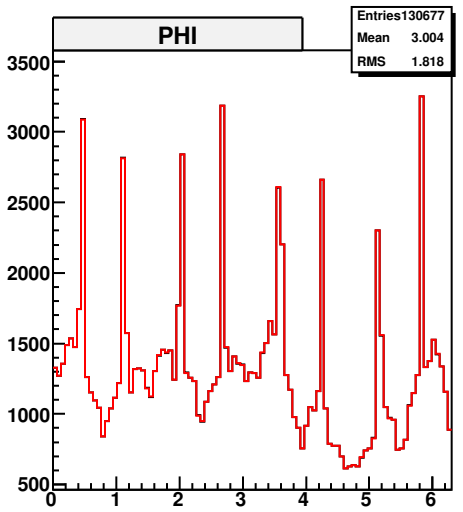

Layer vs Octant Famus S

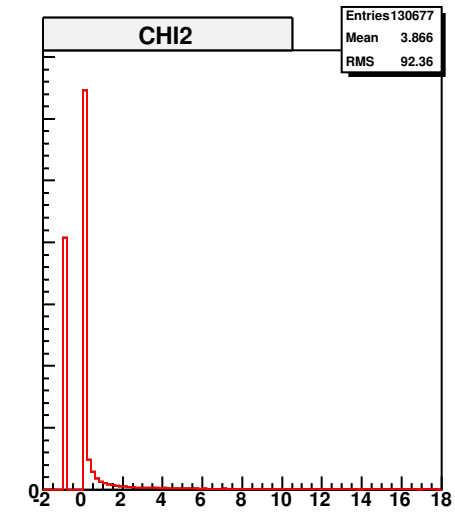
MuonMSC (All)

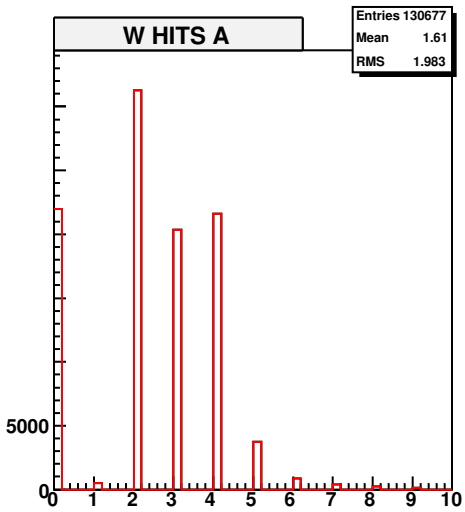


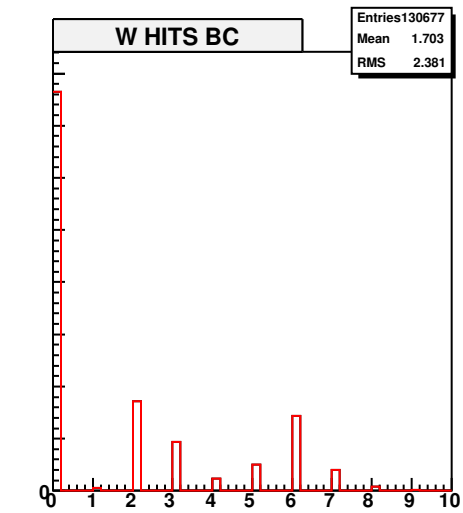


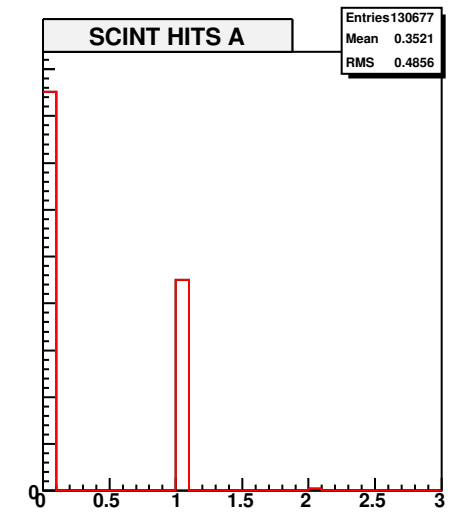


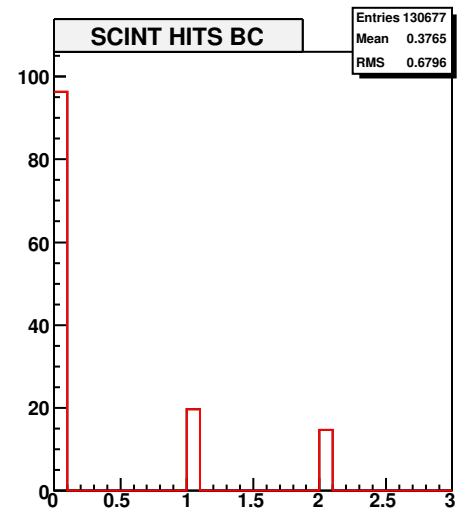




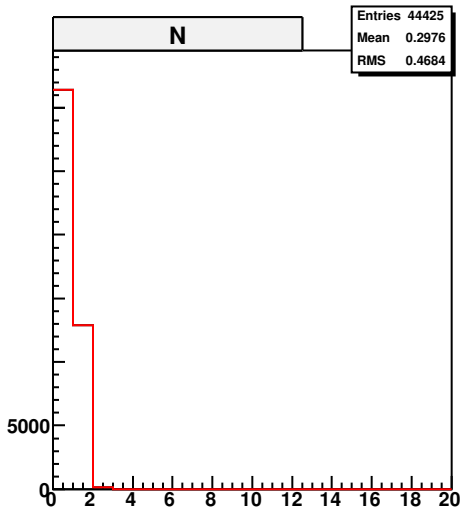


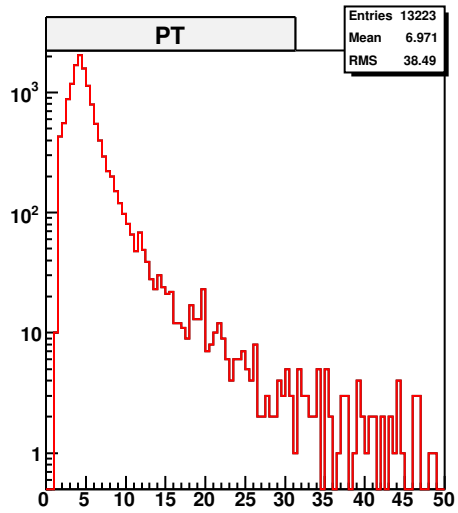


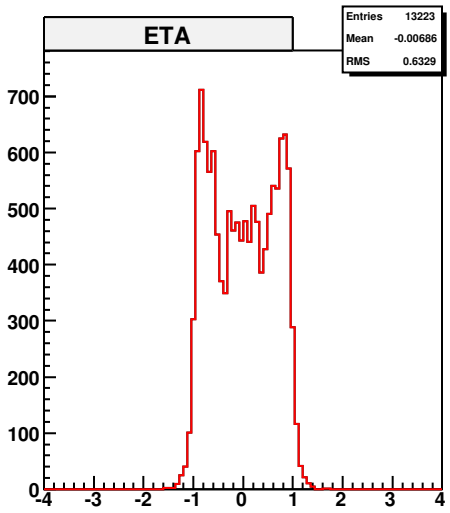


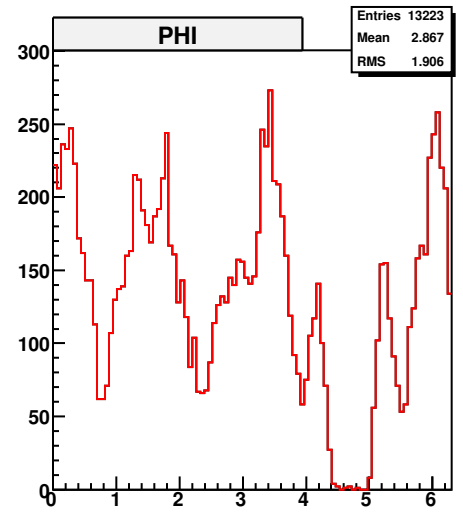


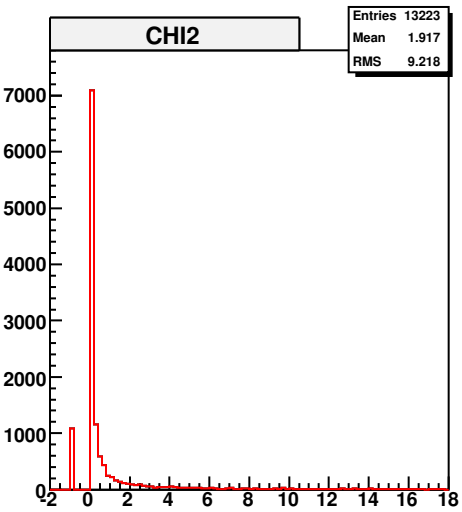
Muon Local Tracks (All)

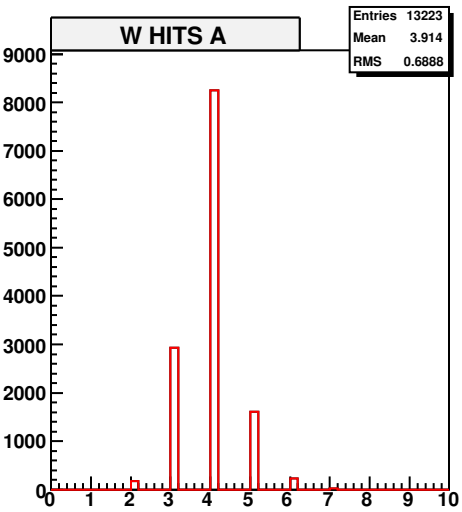


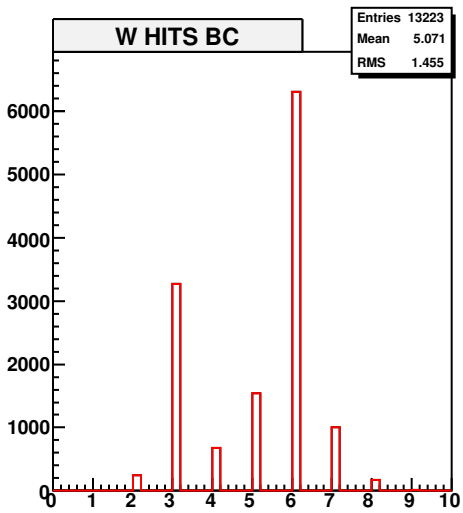


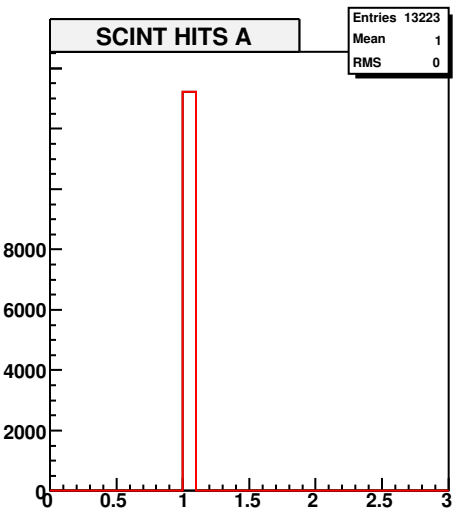


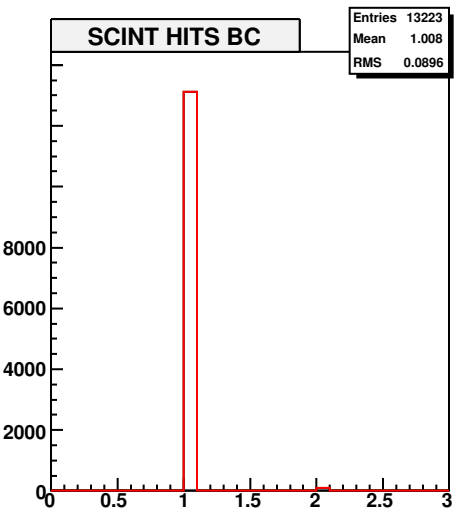












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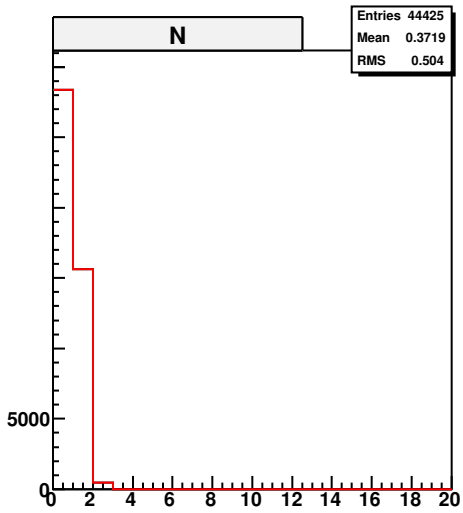

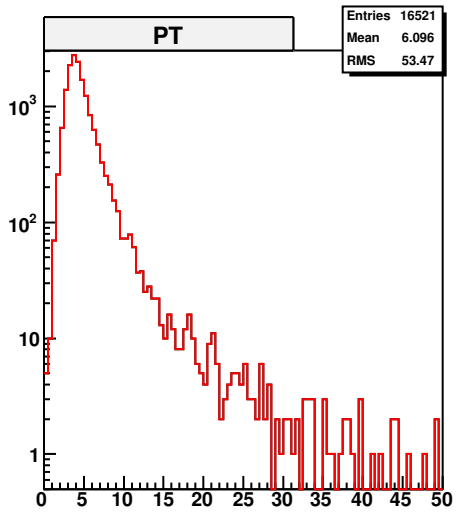

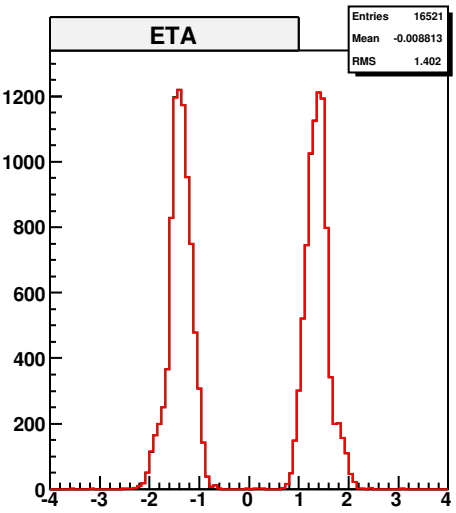

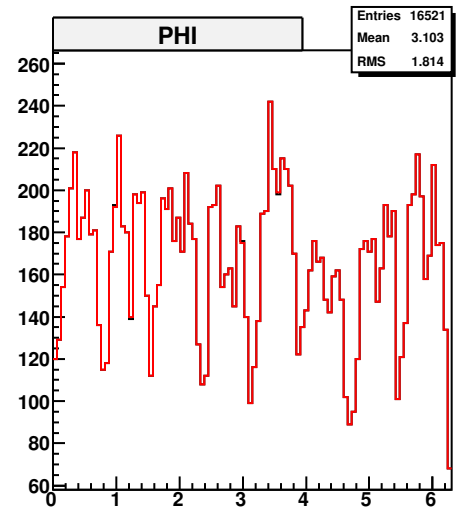

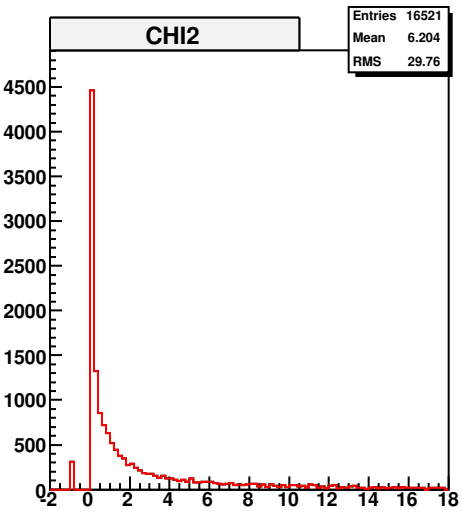

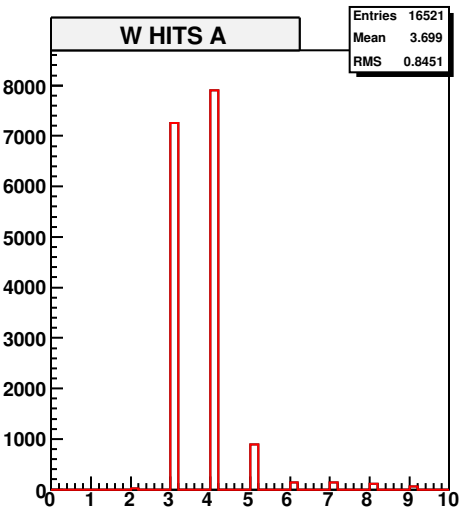

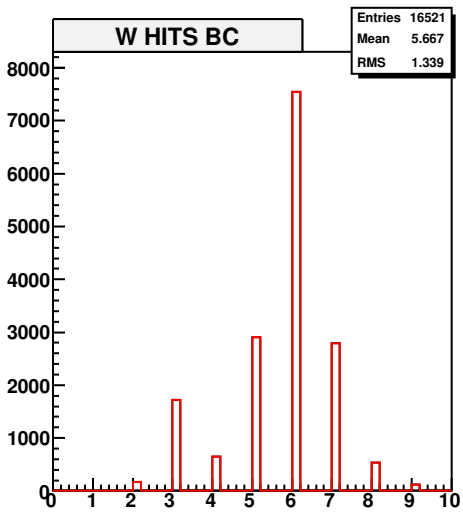

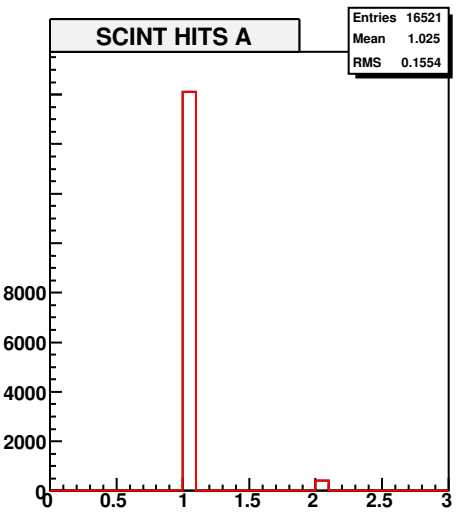

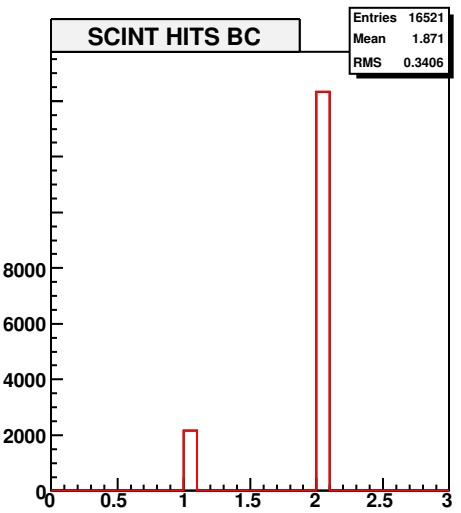

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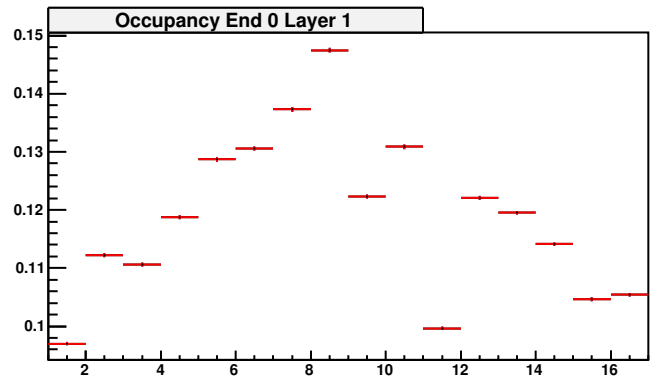
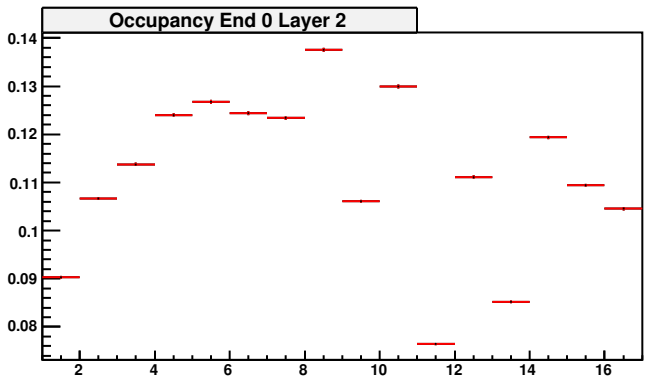
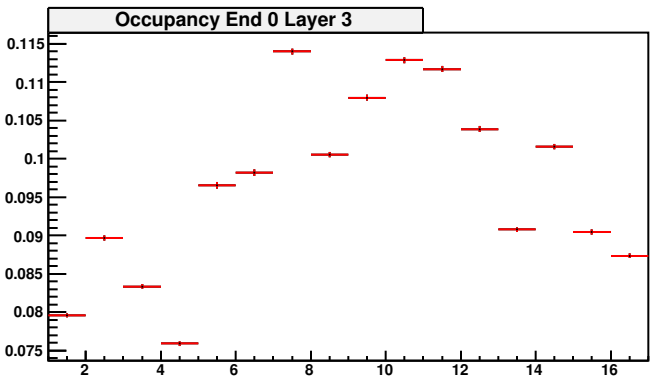
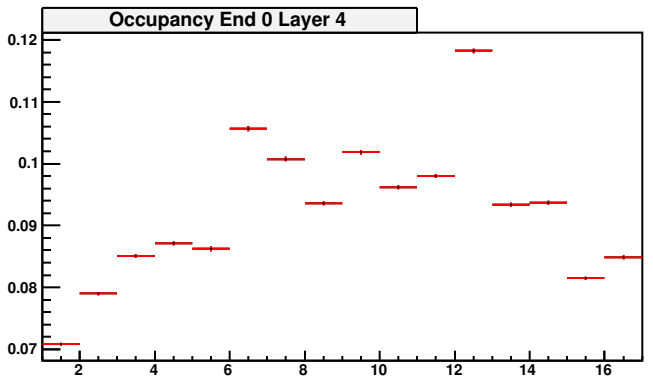
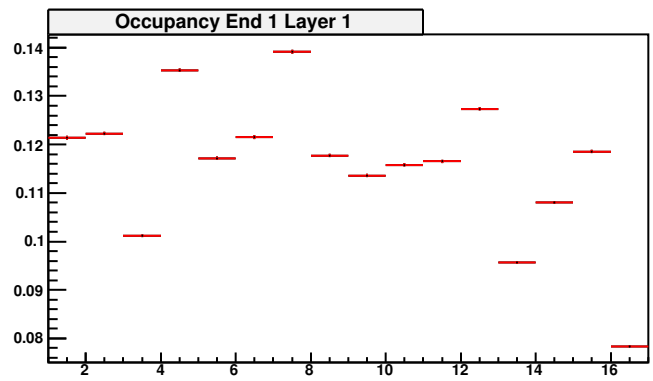
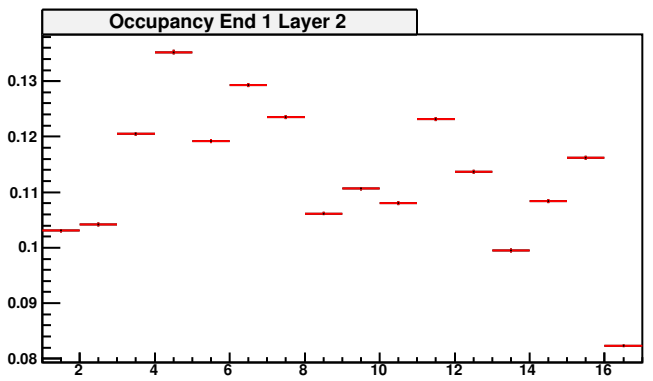


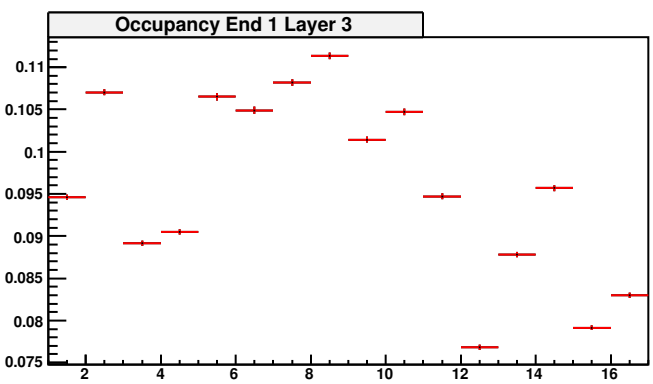


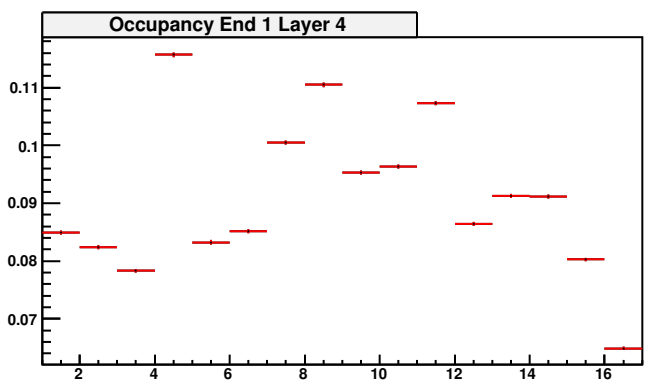




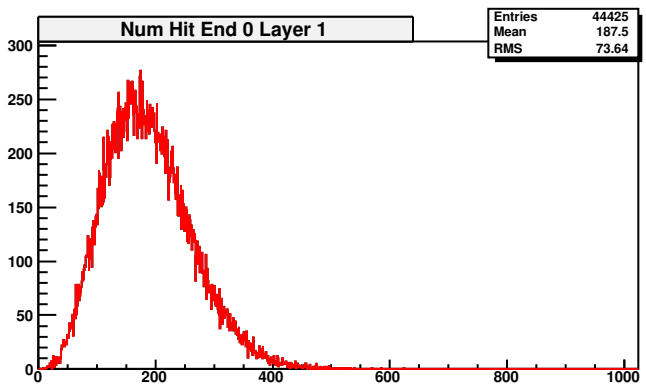


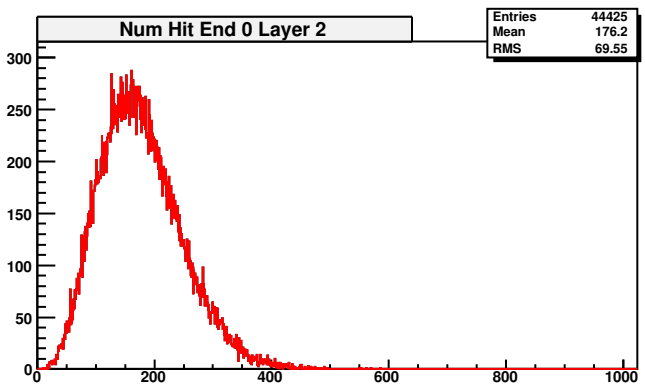


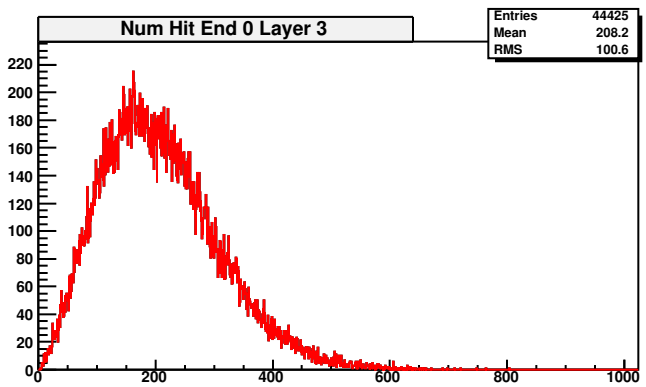


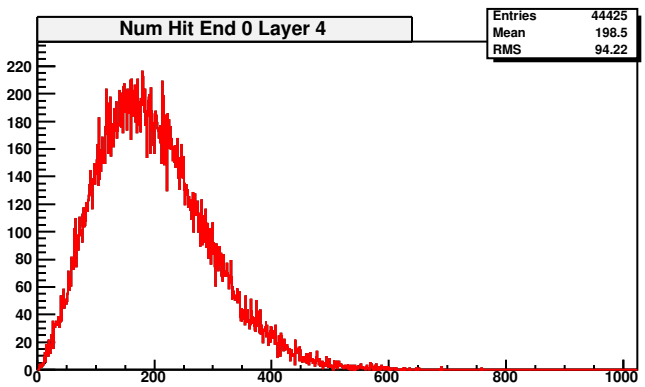


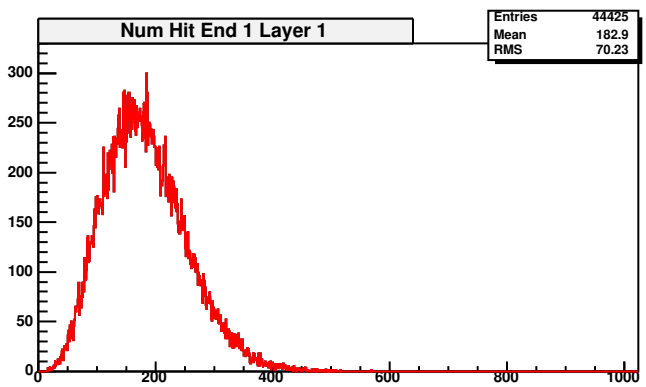
FPS Hit Occupancy (All)

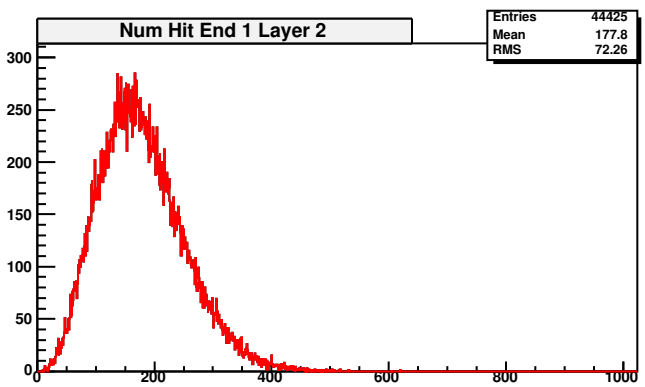


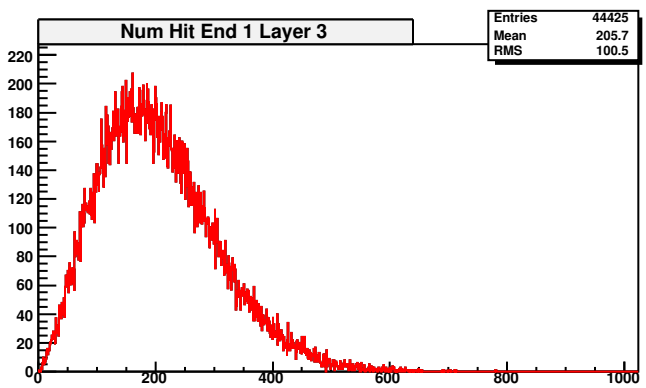


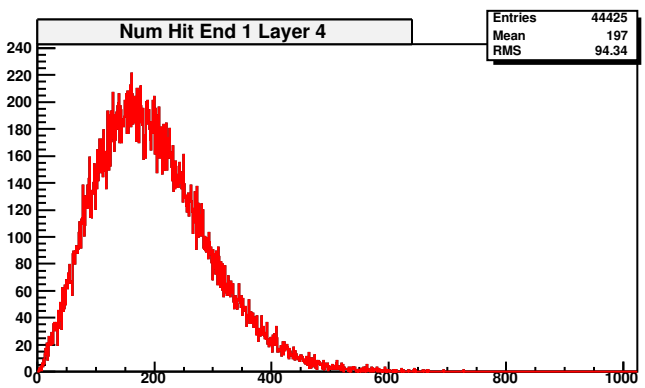




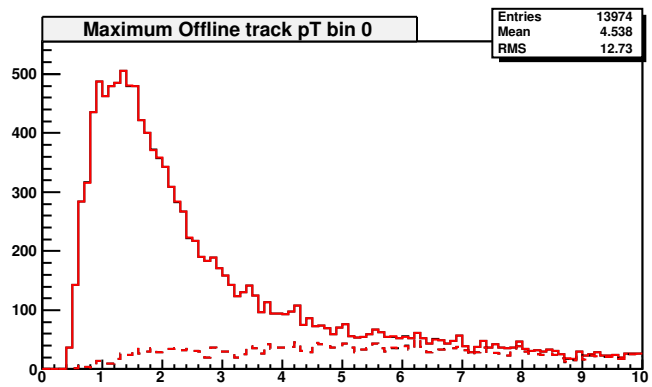


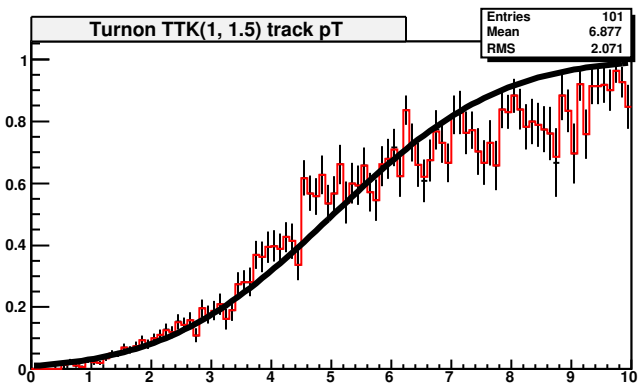


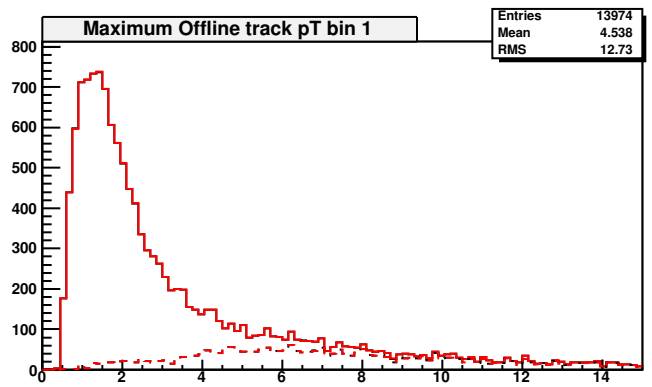


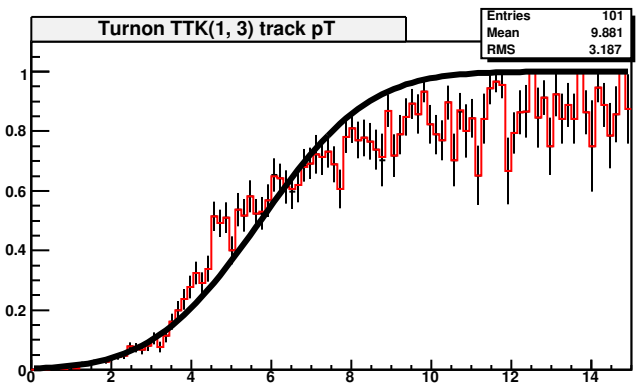


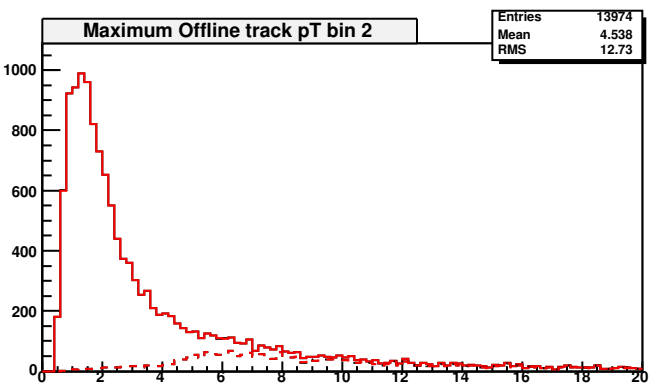
FPS Number of Hits (All)

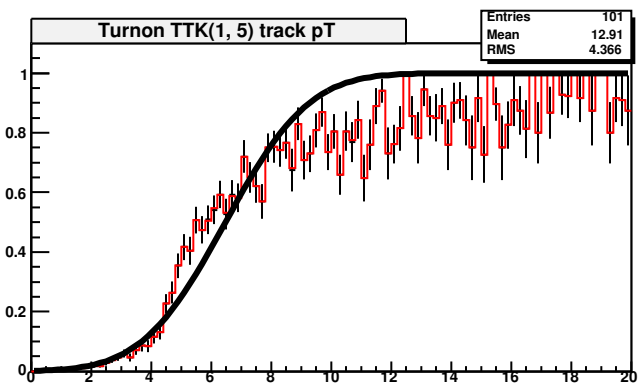


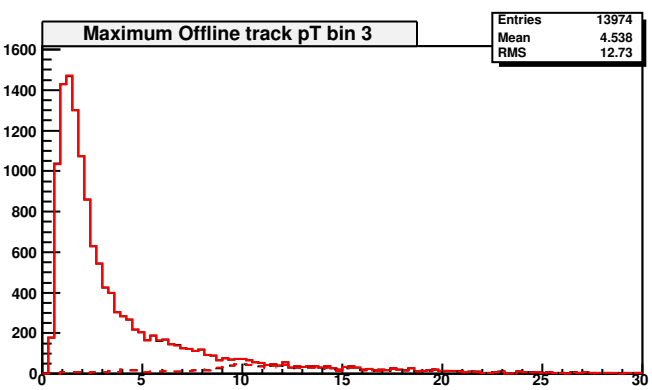


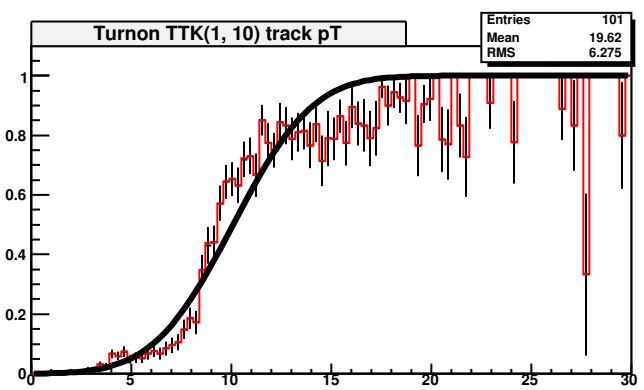




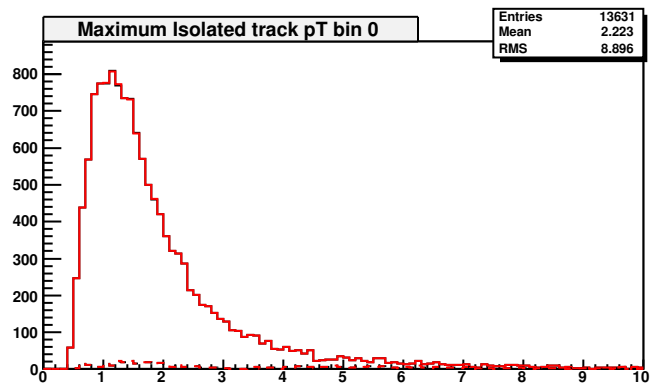


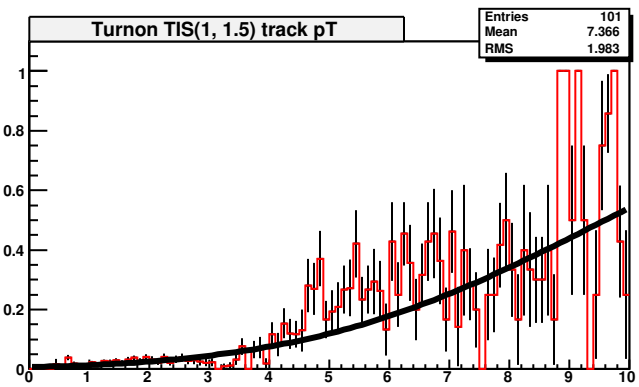


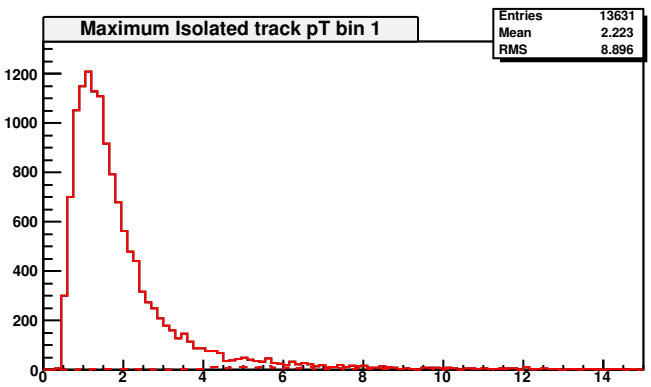


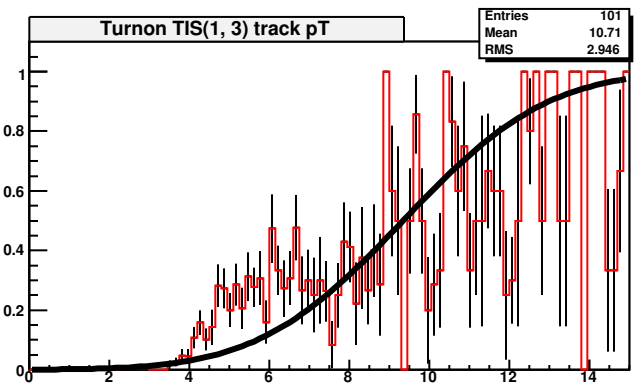


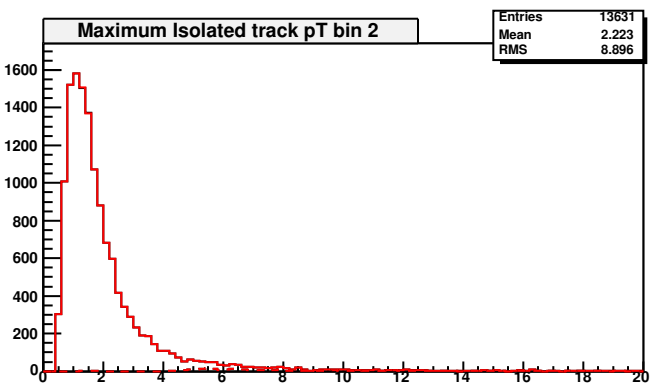
TTK Turnon curves (L1CTT All)

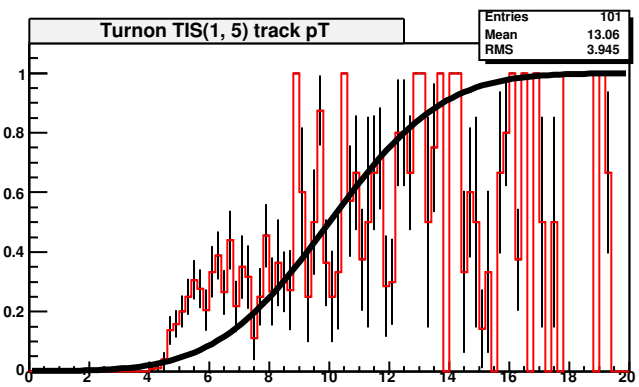


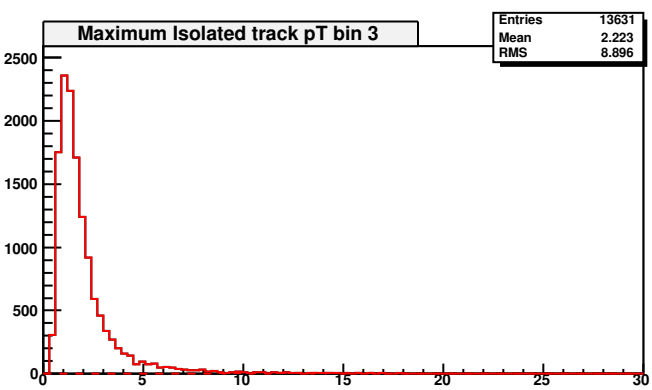


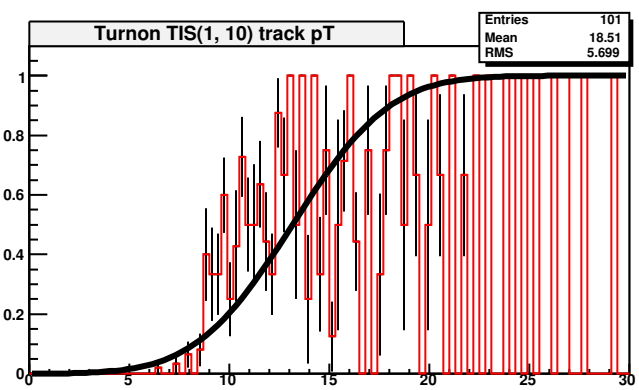




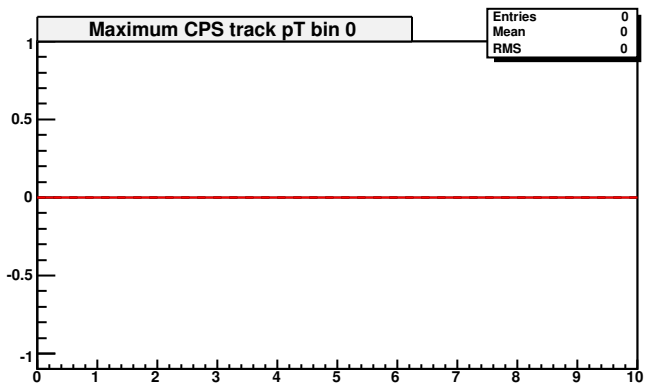


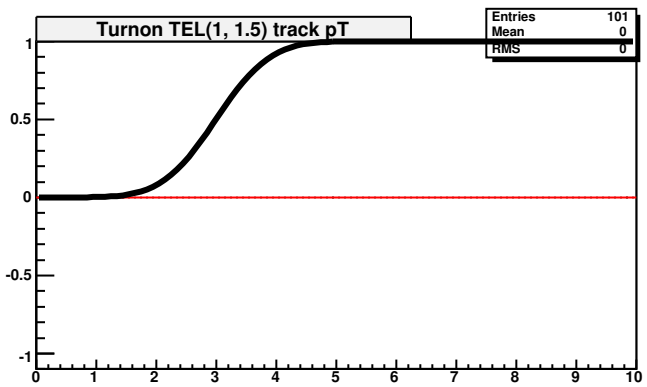


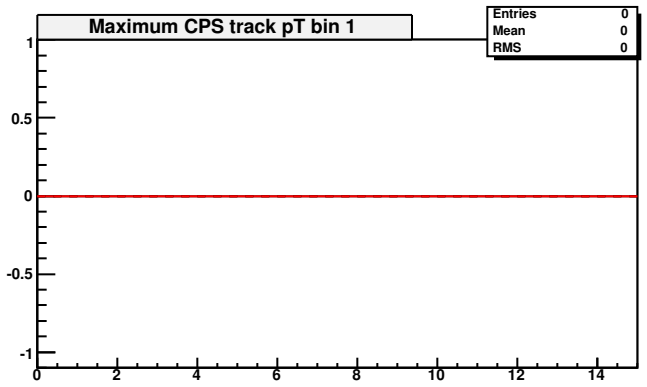


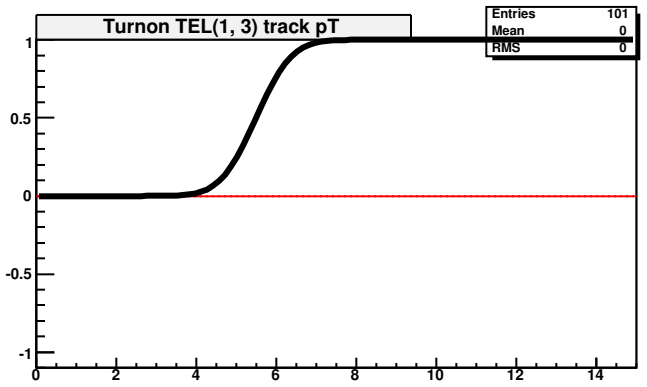


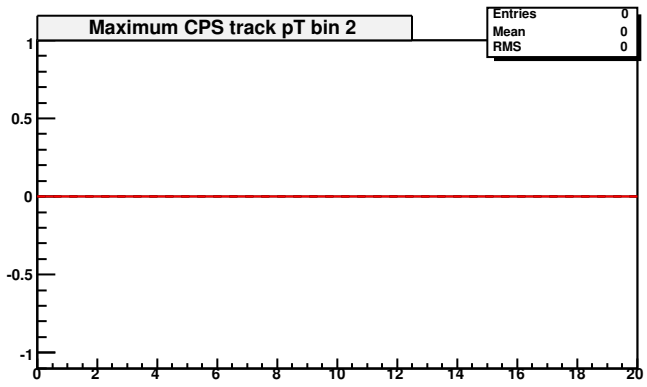
TIS Turnon curves (L1CTT All)

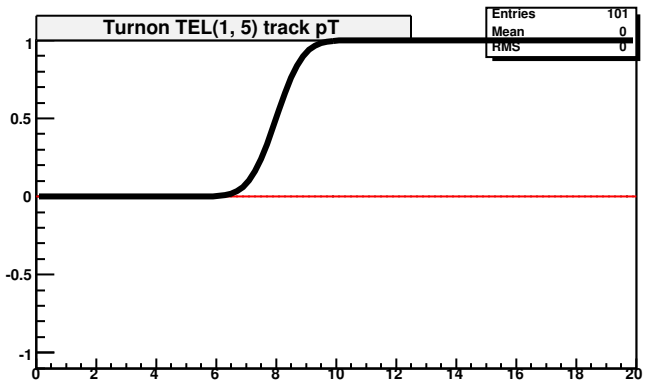


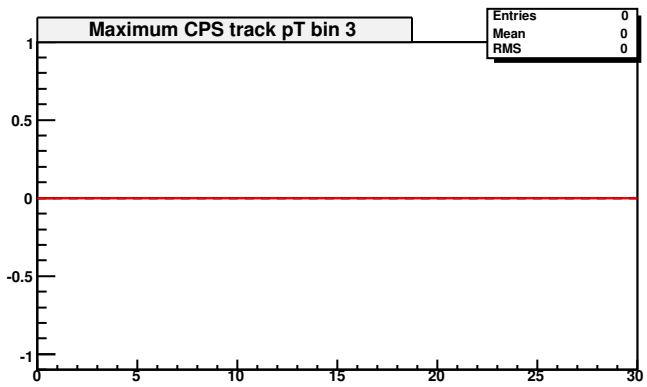


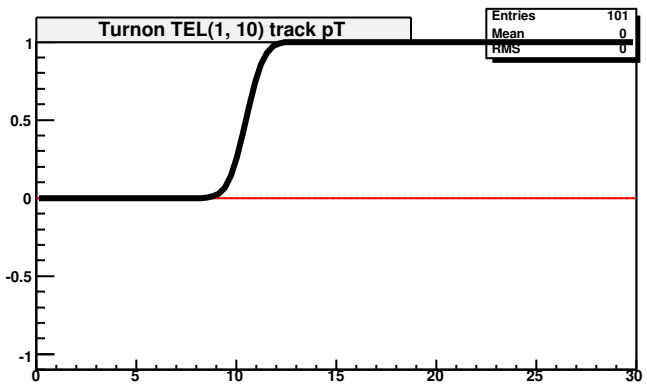




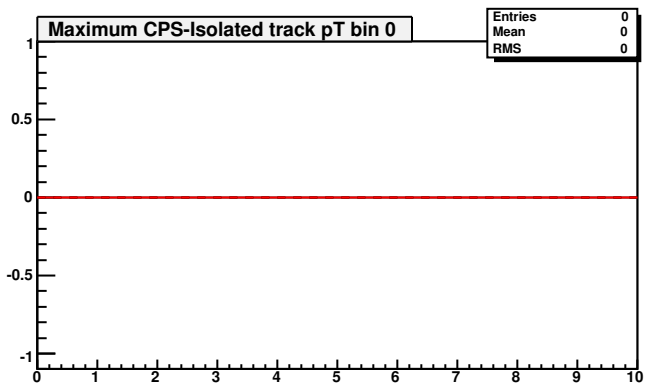


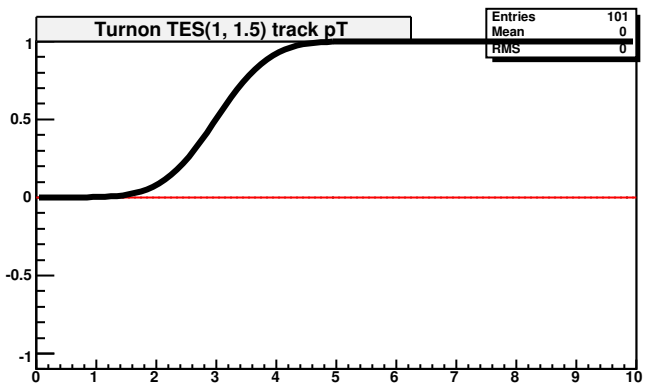


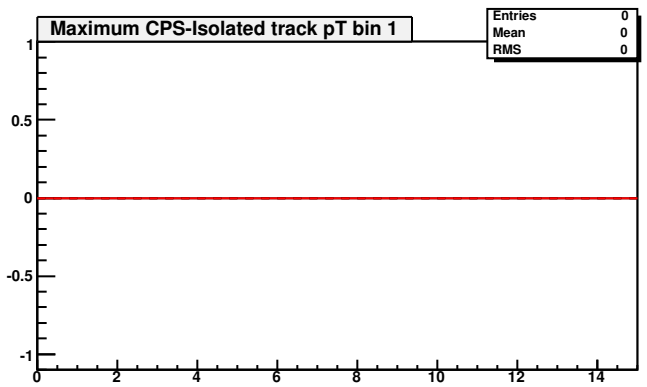


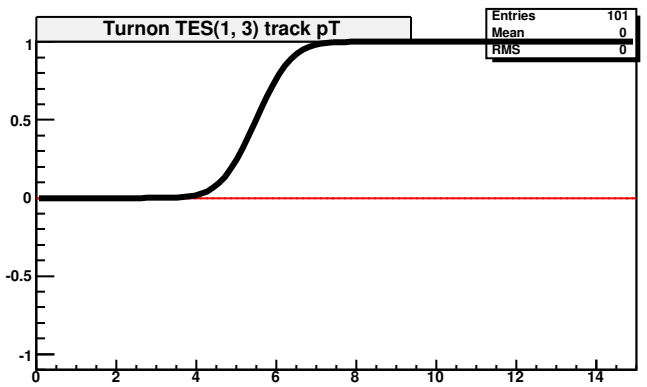


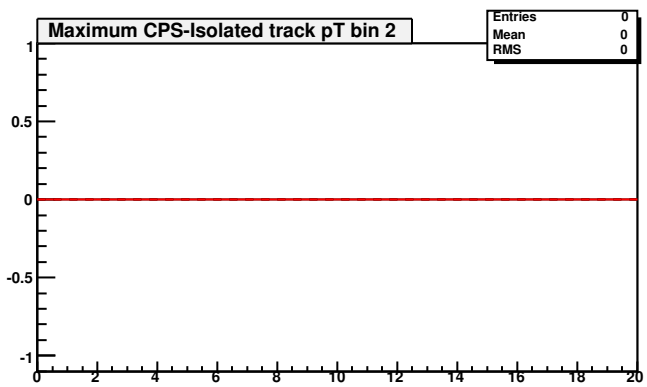
TEL Turnon curves (L1CTT All)

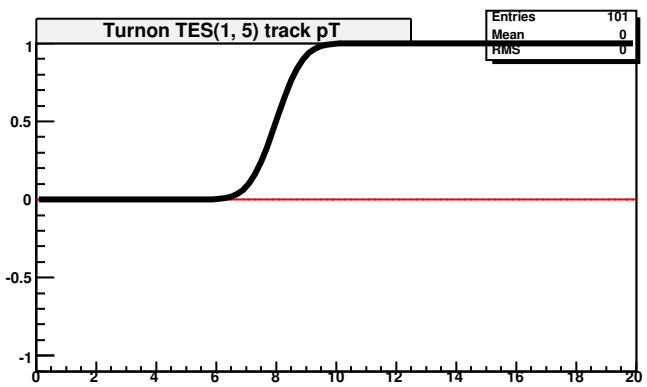


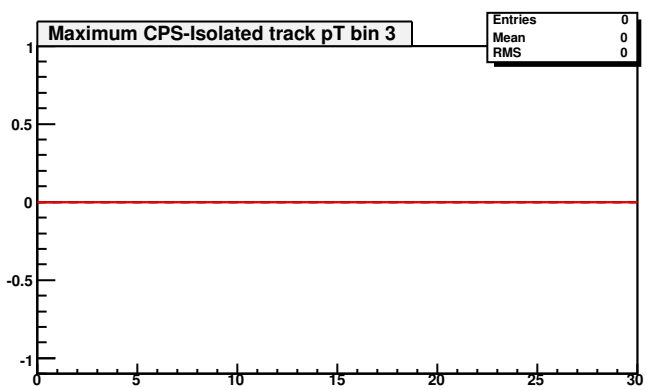


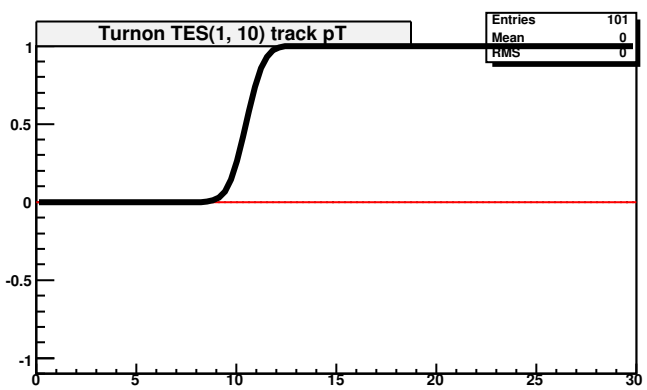




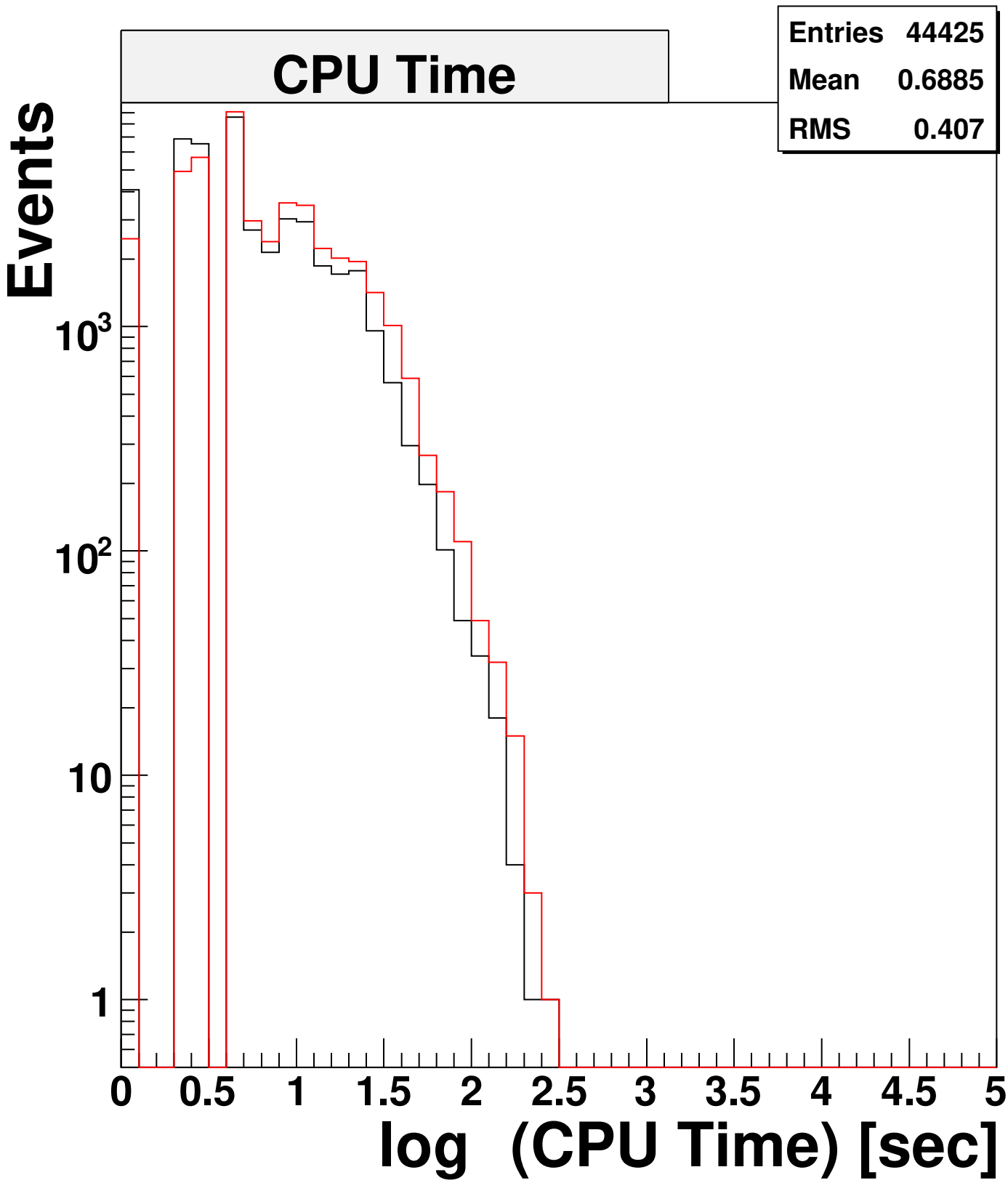








TES Turnon curves (L1CTT All)



RECO Performance (Timing)