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p2012b5_r237403_014-015.root

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Page 65: L1CTT TEL Trigger Turn-on (All)
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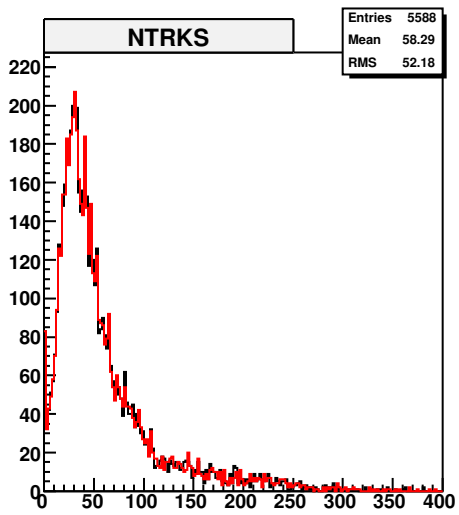
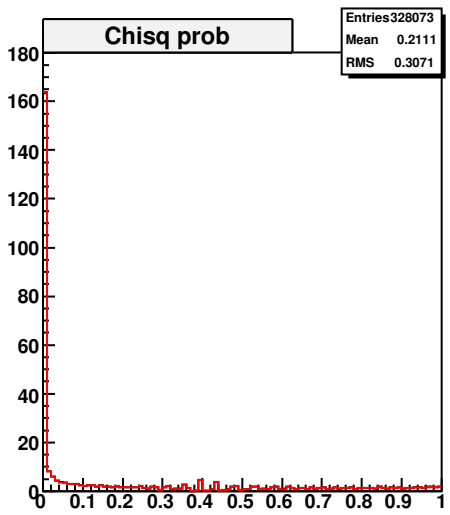
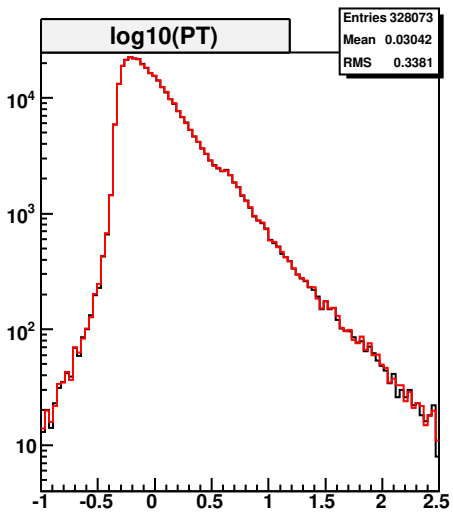
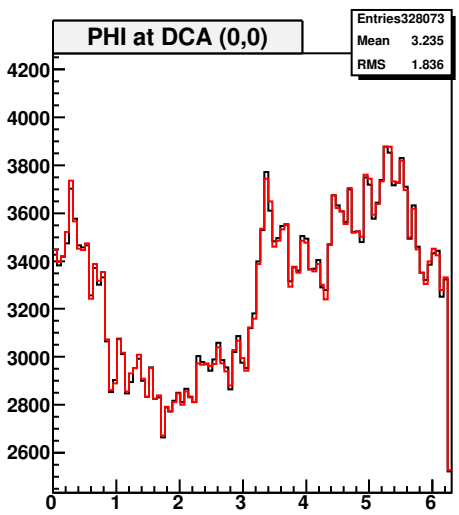
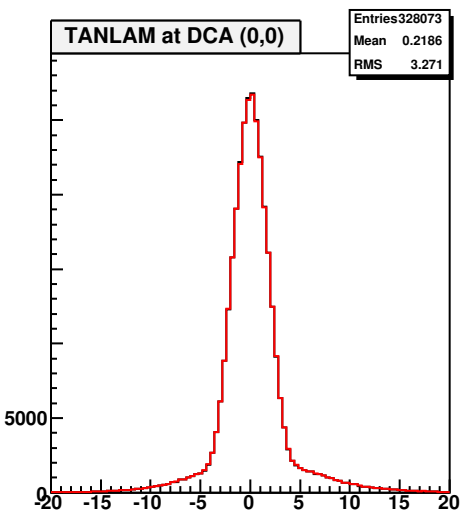
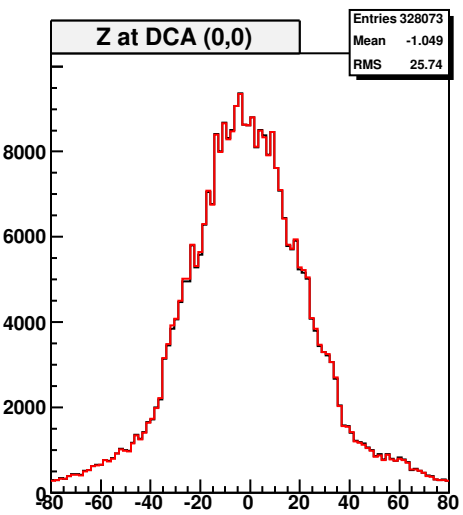

NTRKS
Entries 5588
Mean 58.29
RMS 52.18

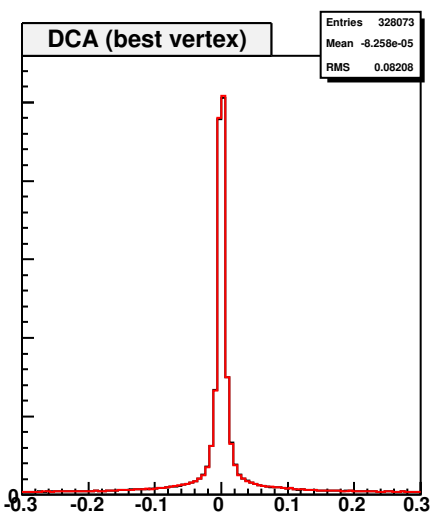

Chisq prob
Entries 328073
Mean 0.2111
RMS 0.3071

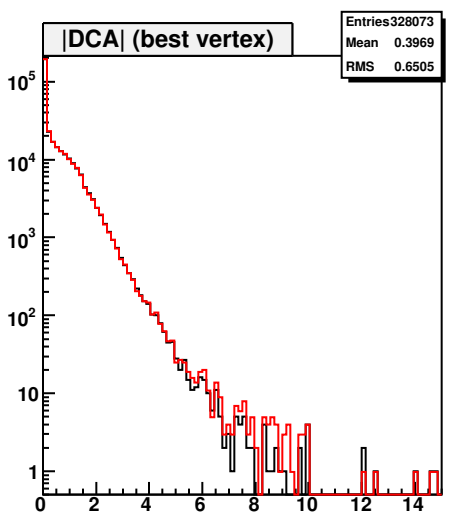

log10(PT)
Entries 328073
Mean 0.03042
RMS 0.3381

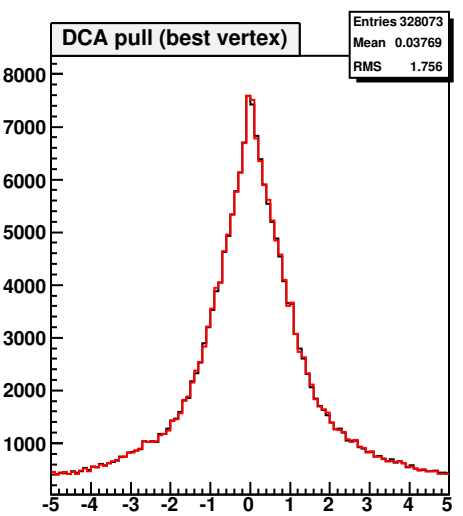

PHI at DCA (0,0)
Entries 328073
Mean 3.235
RMS 1.836


TANLAM at DCA (0,0)
Entries 328073
Mean 0.2186
RMS 3.271

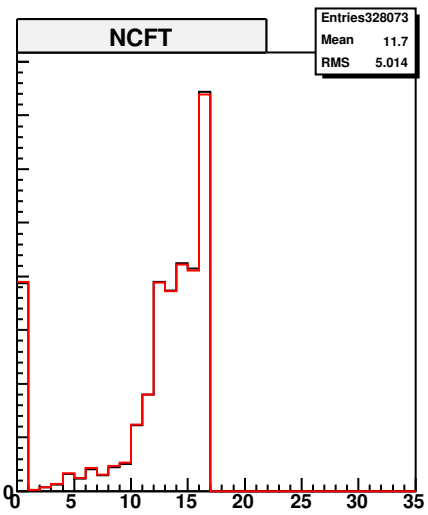

Z at DCA (0,0)
Entries 328073
Mean -1.049
RMS 25.74

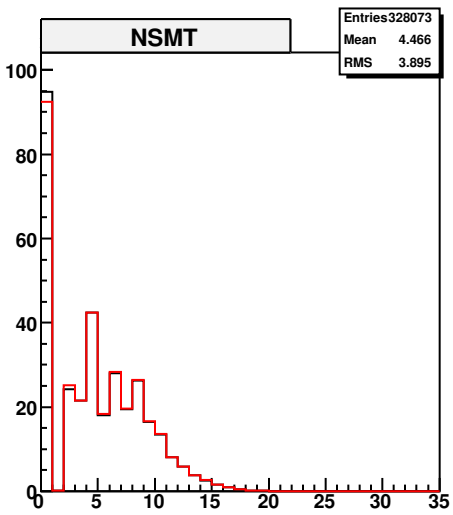

DCA (best vertex)
Entries 328073
Mean -8.258e-05
RMS 0.08208

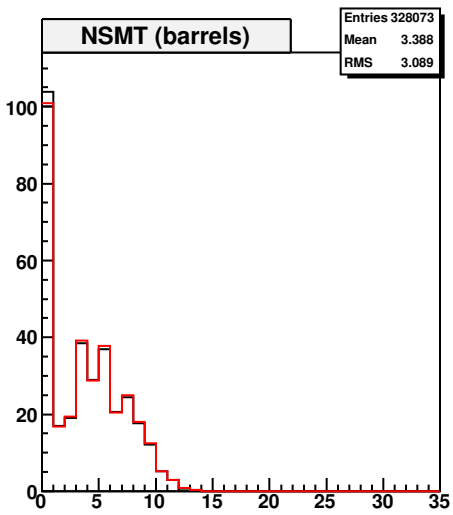

|DCA| (best vertex)
Entries 328073
Mean 0.3969
RMS 0.6505

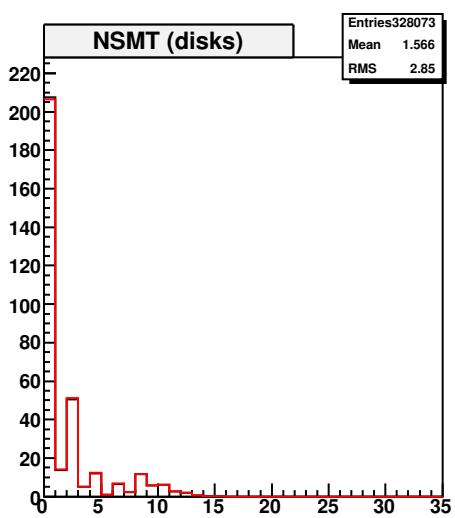

DCA pull (best vertex)
Entries 328073
Mean 0.03769
RMS 1.756

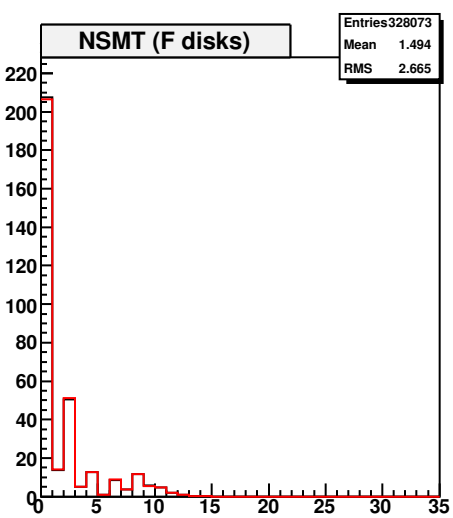
Tracks (All)

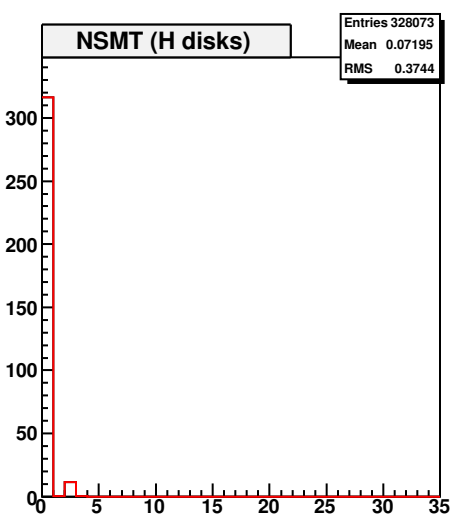


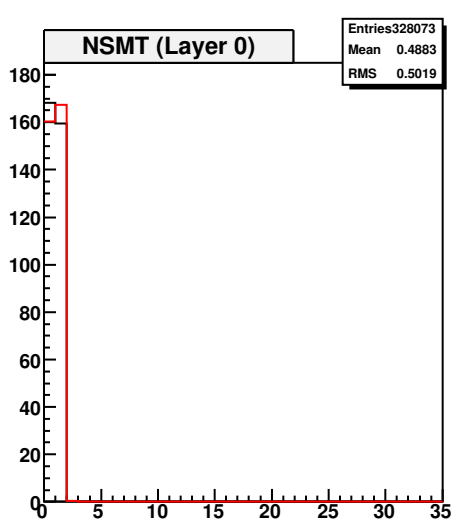




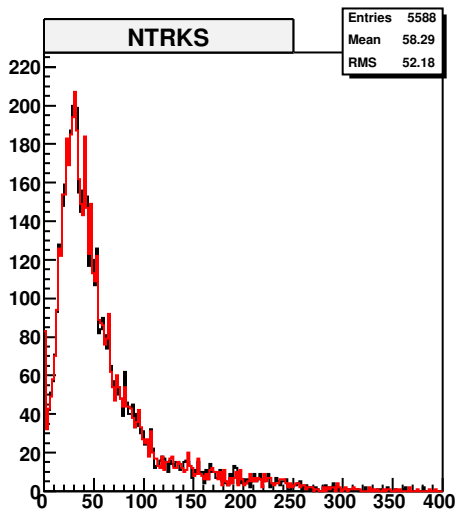


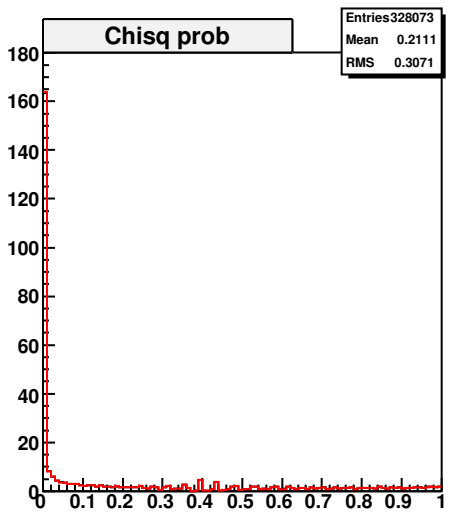


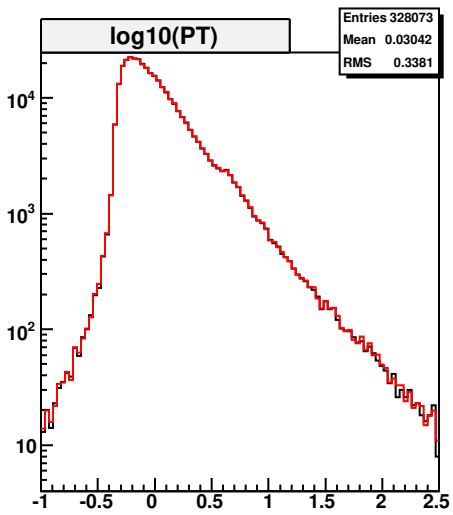


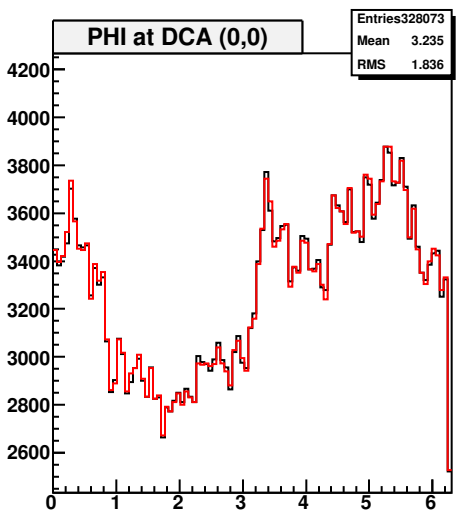


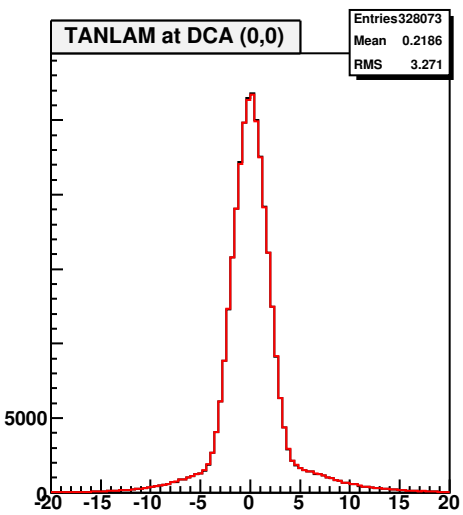
Track Hits (All)

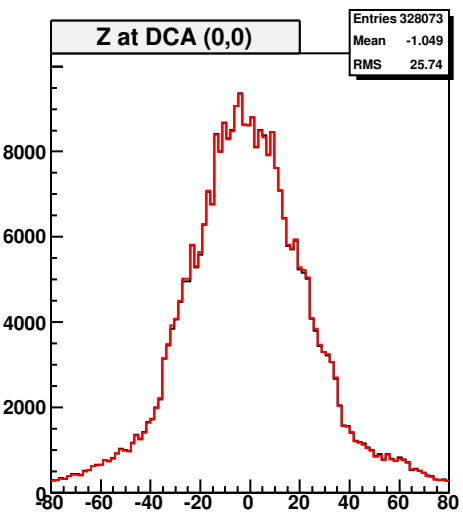


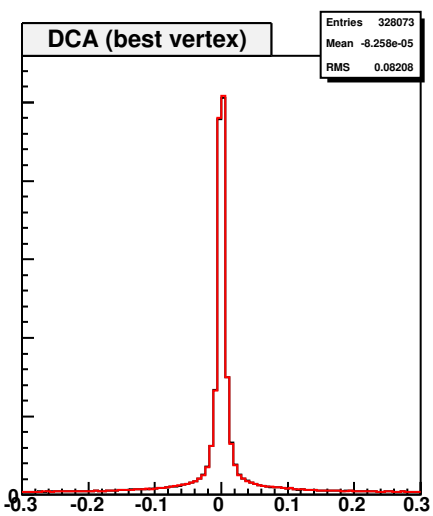


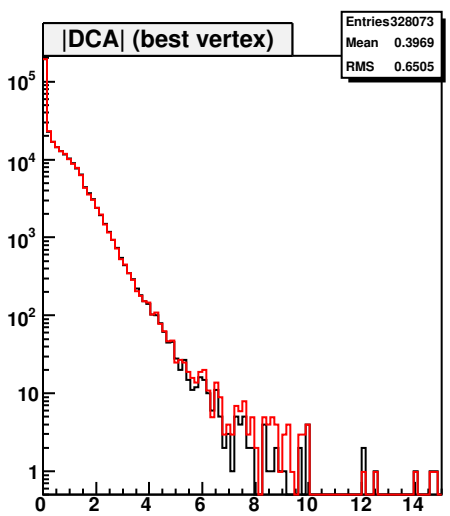


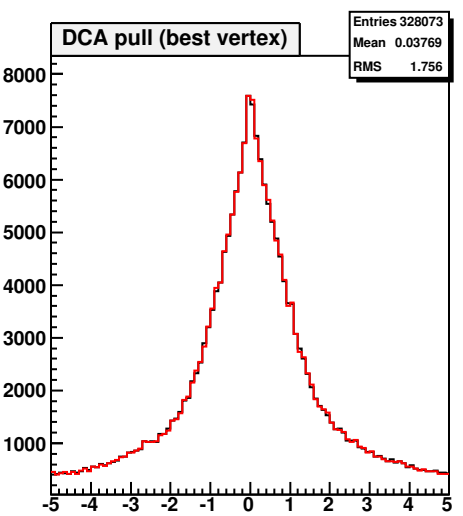




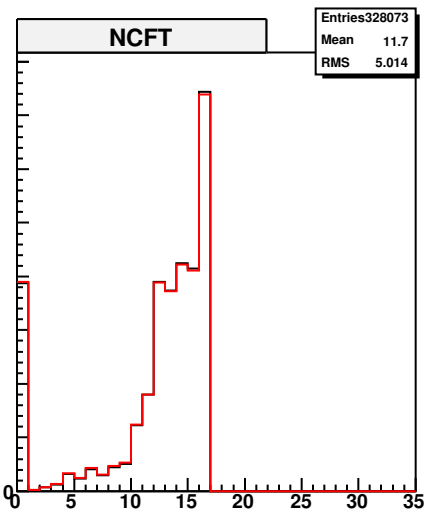


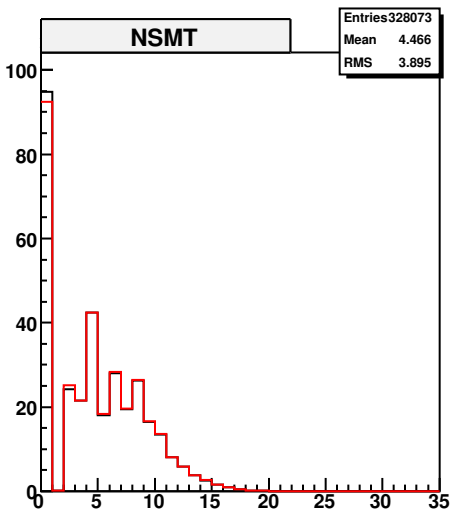


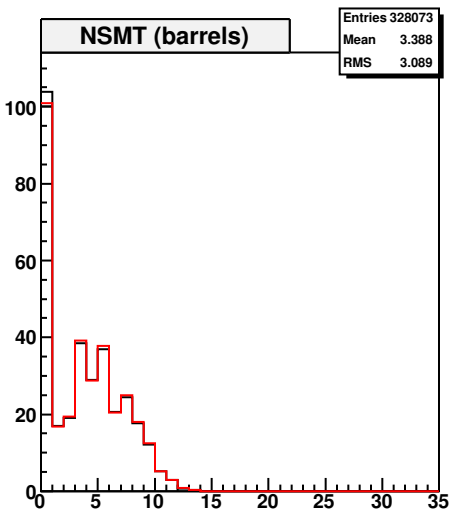


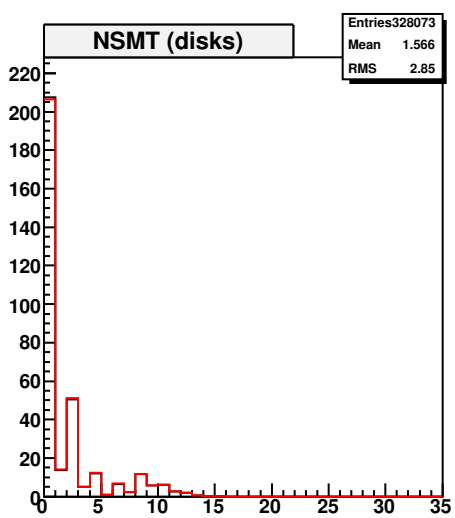


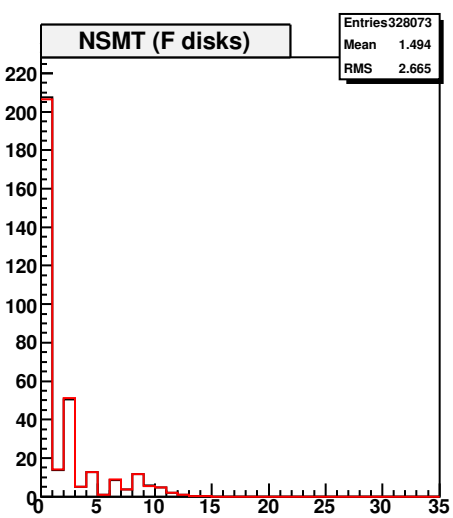
Tracks (Tight)

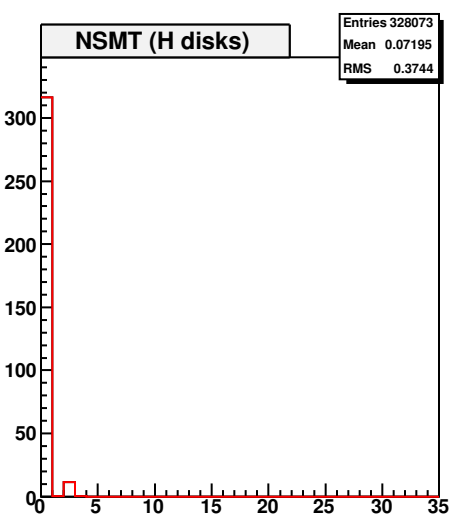


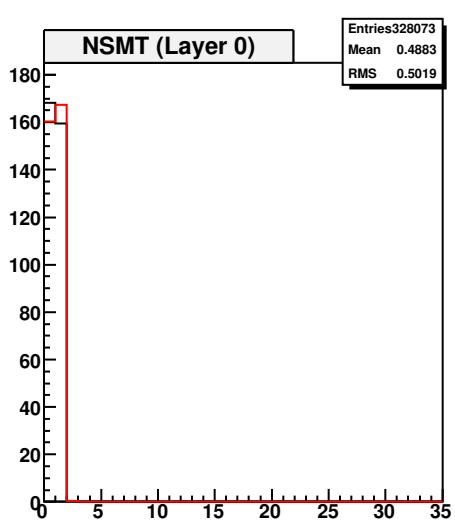




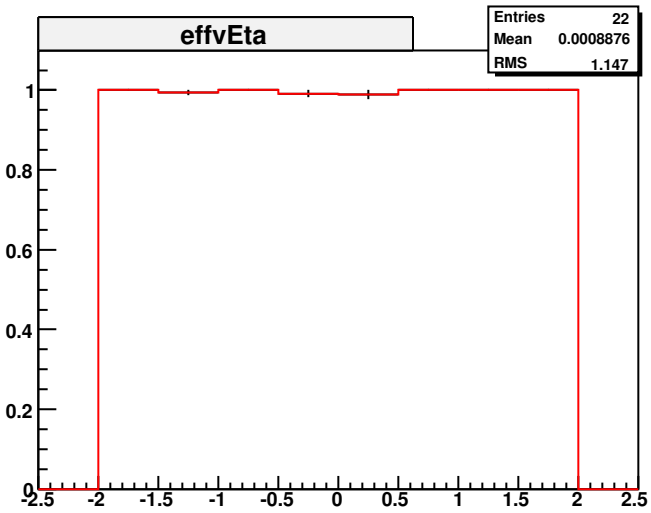


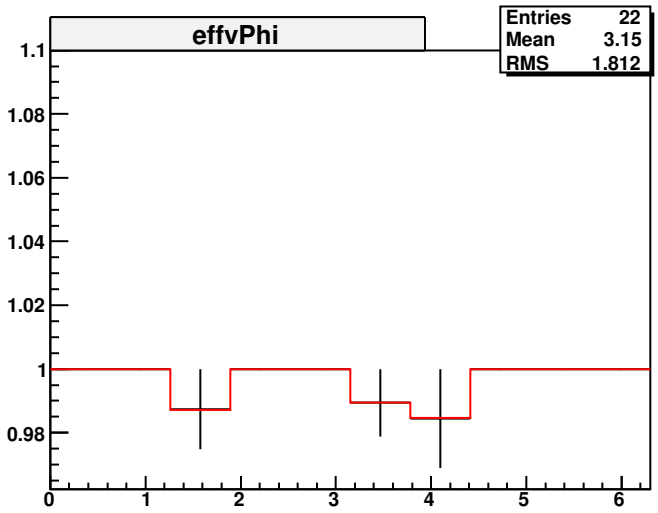


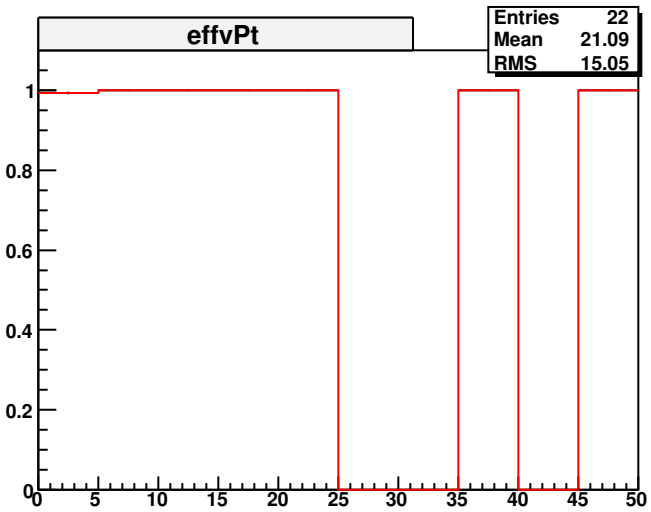


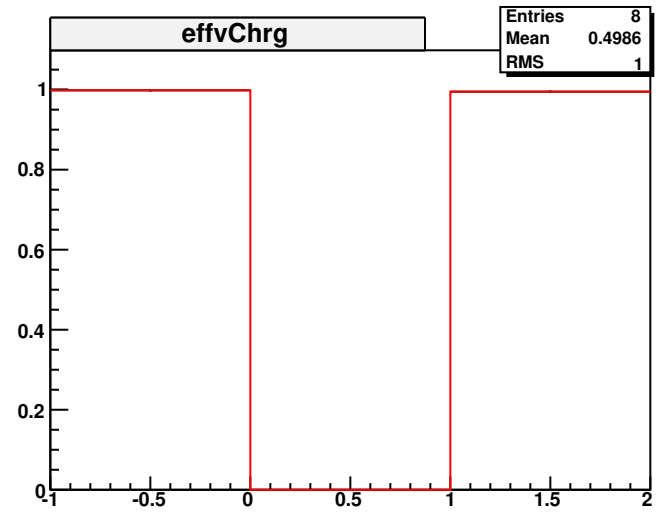


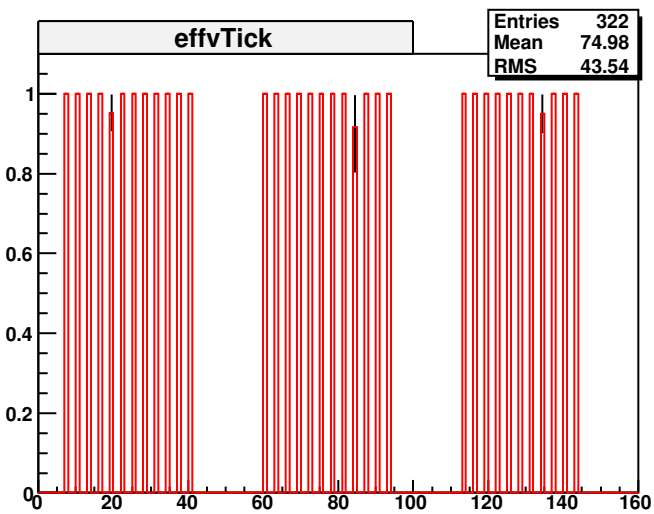
Track Hits (Tight)

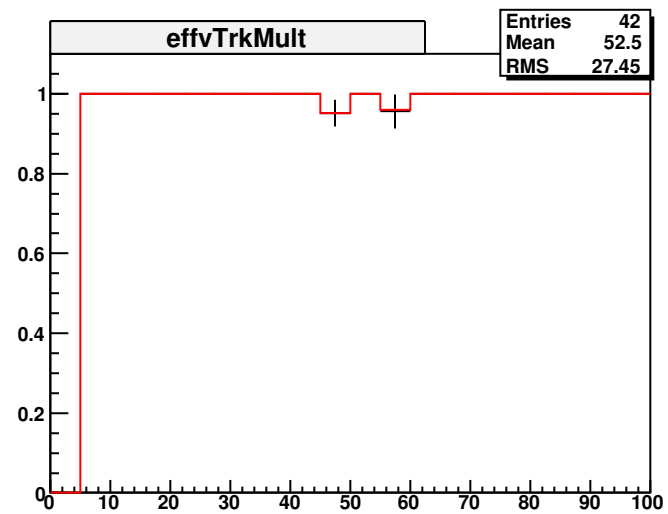




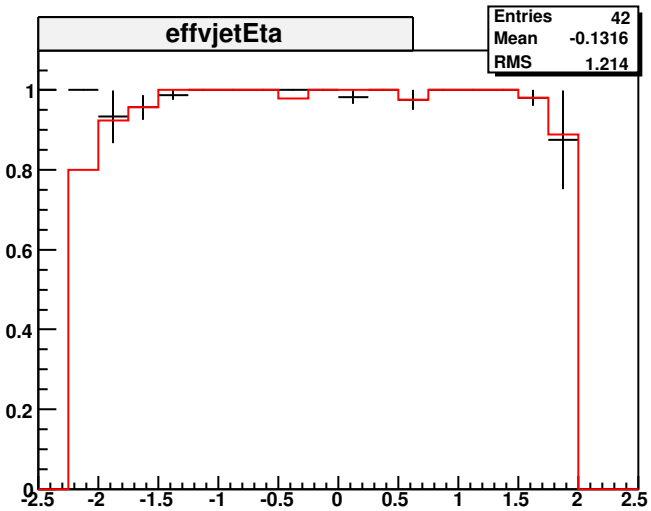


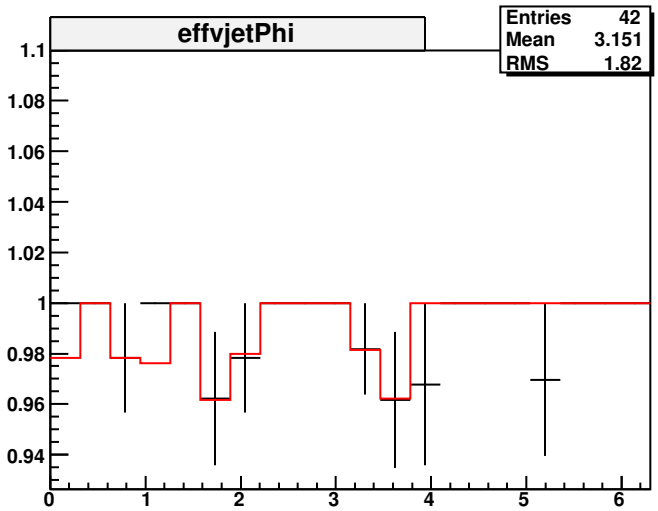


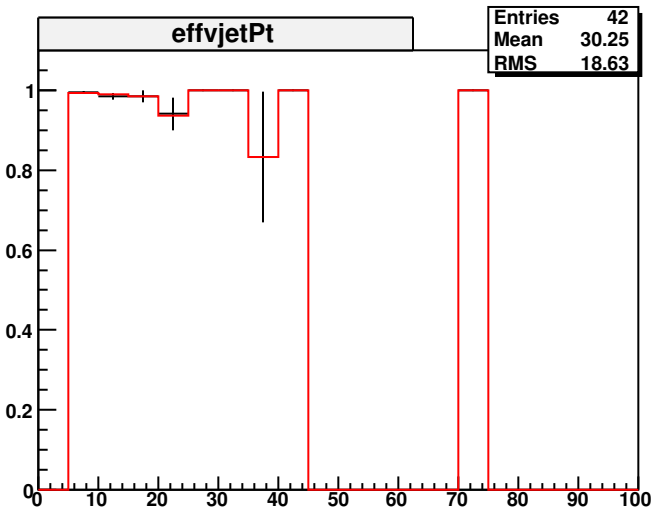




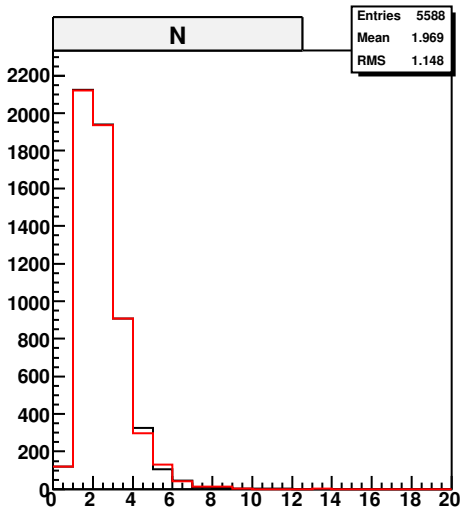
Tracking (Efficiency-Isolated)

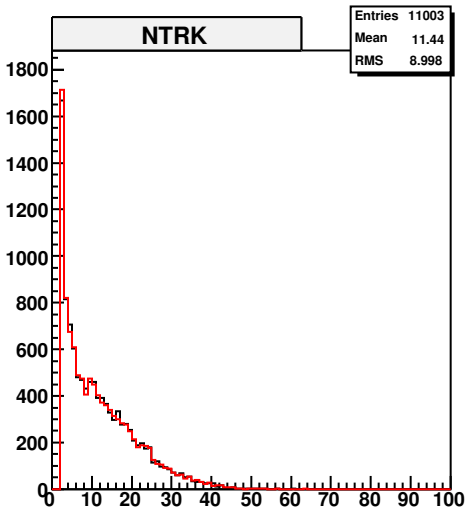


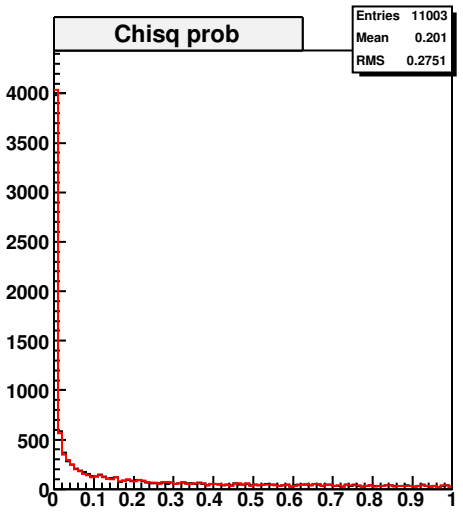


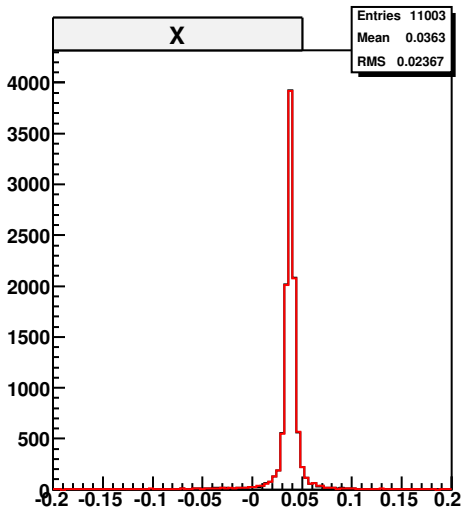


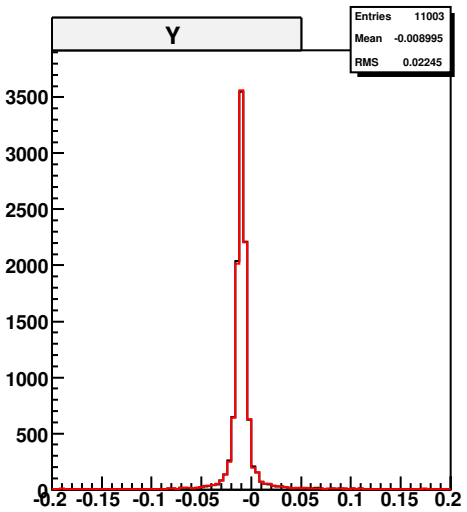
Tracking (Efficiency-InJets)

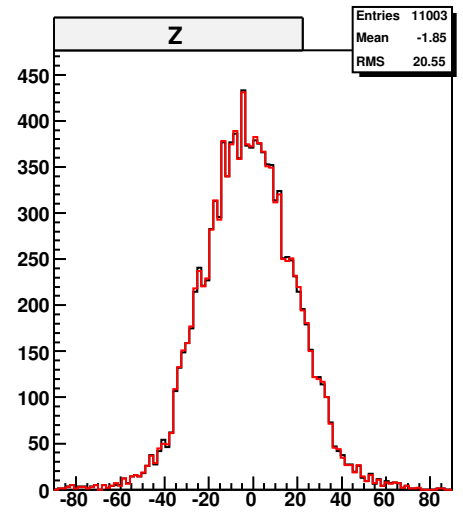


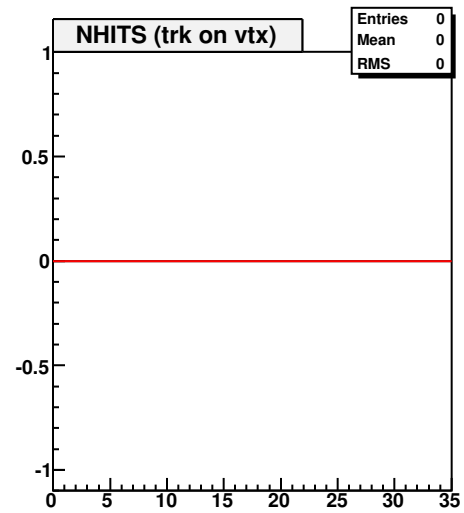


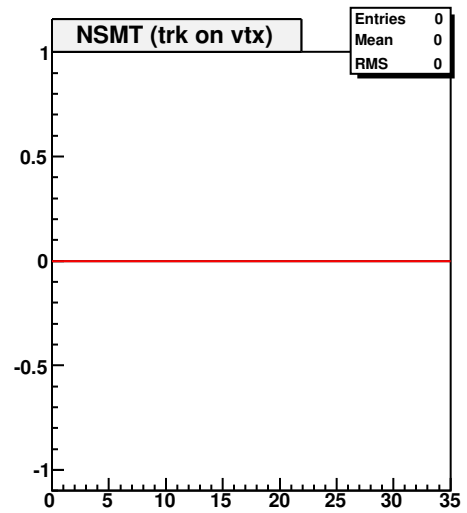


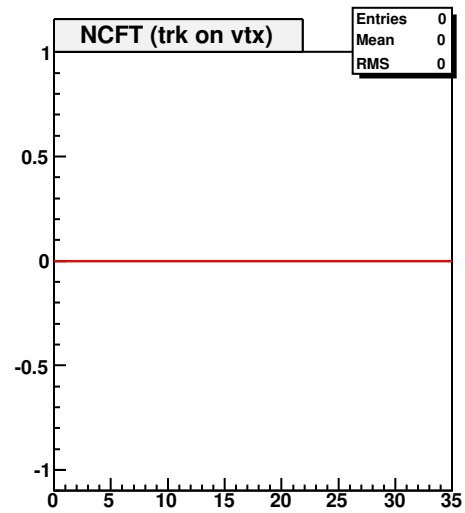




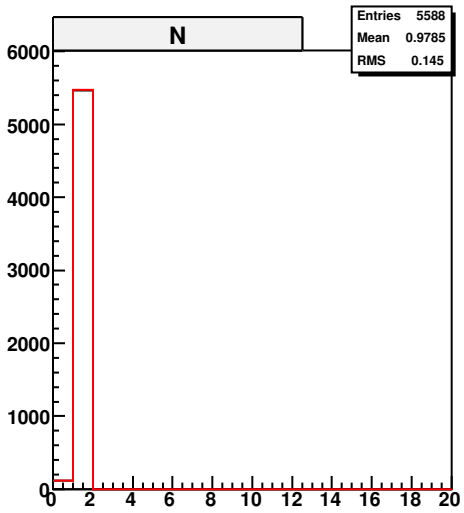


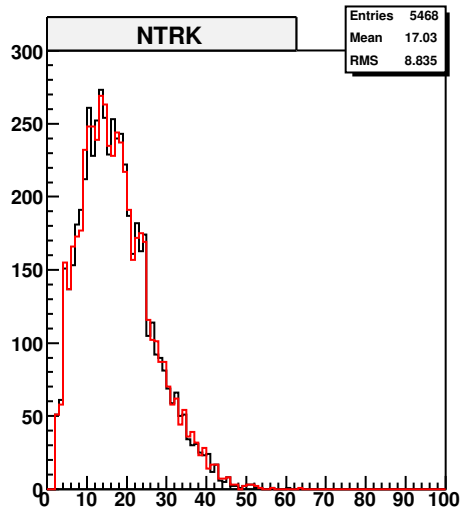


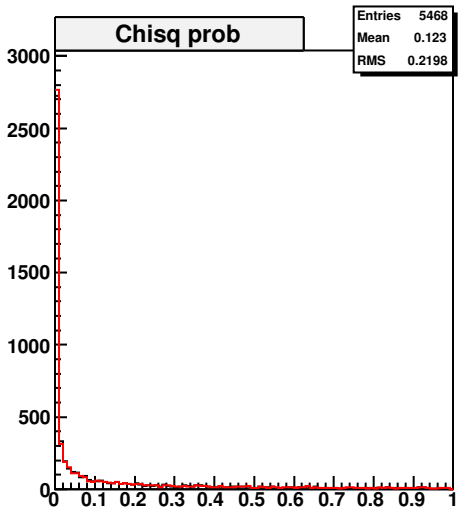


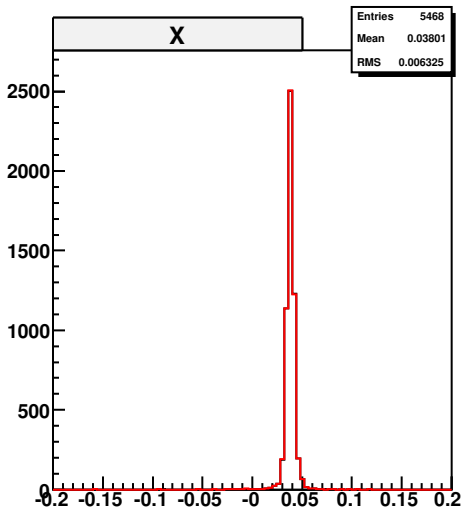


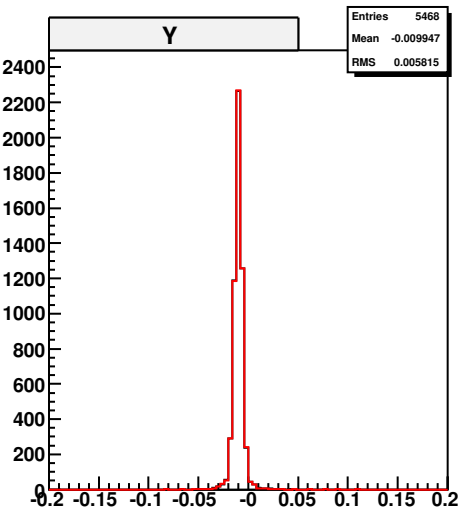
Vertices (Primary - all candidates)

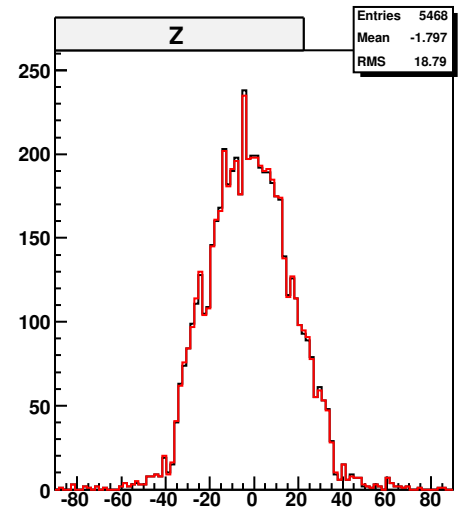


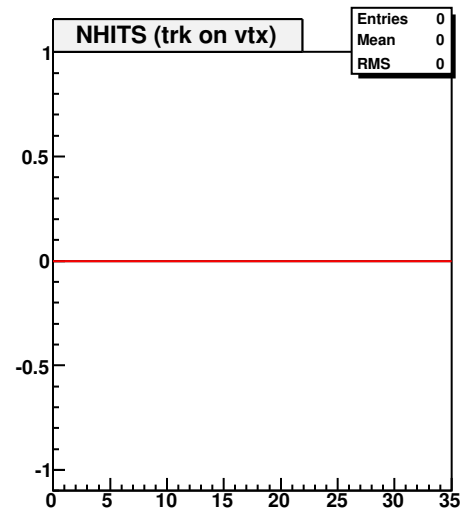


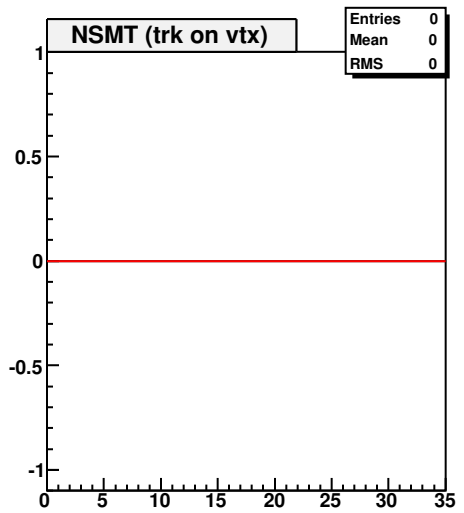


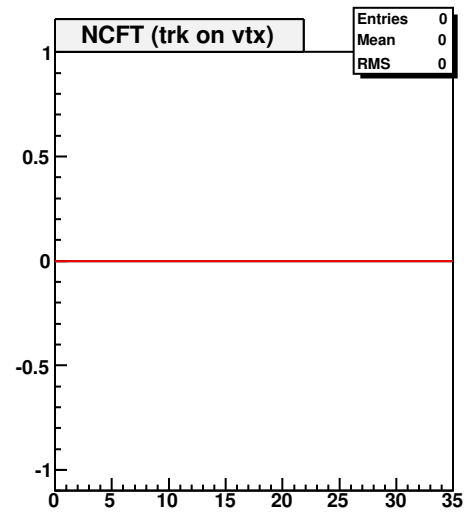




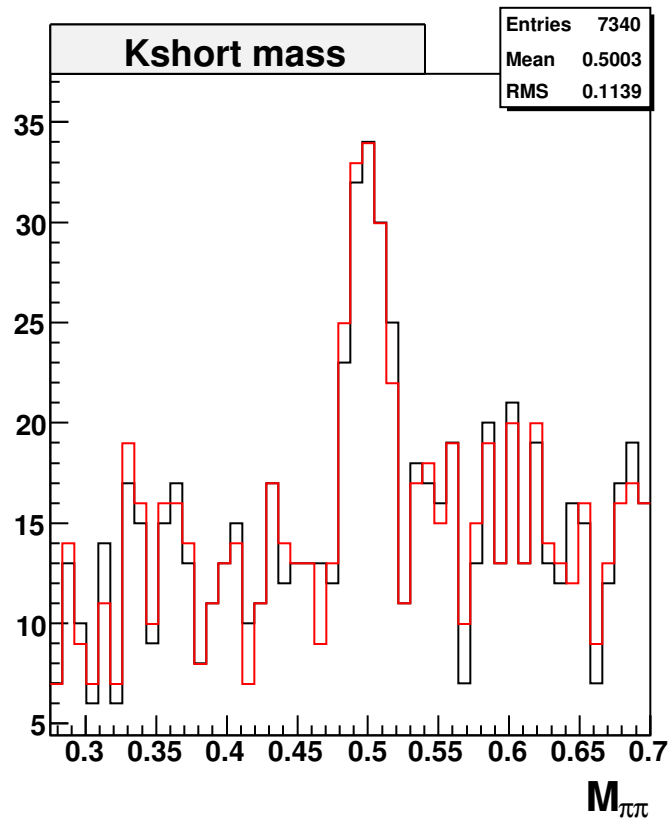


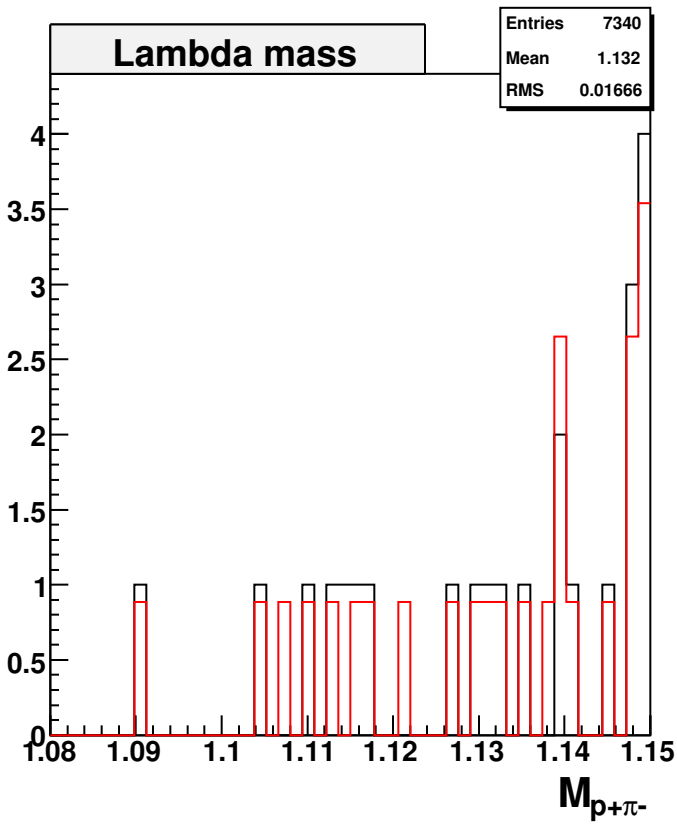


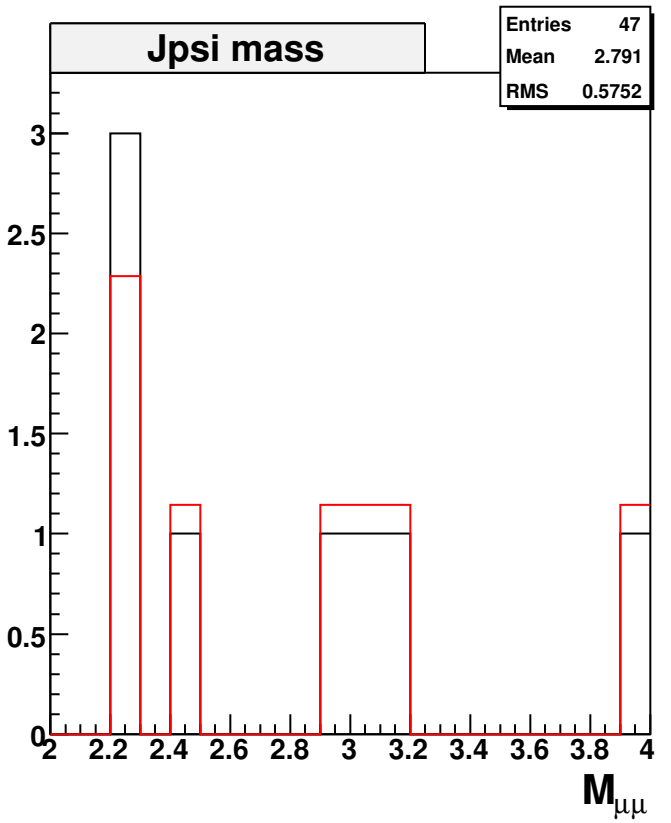


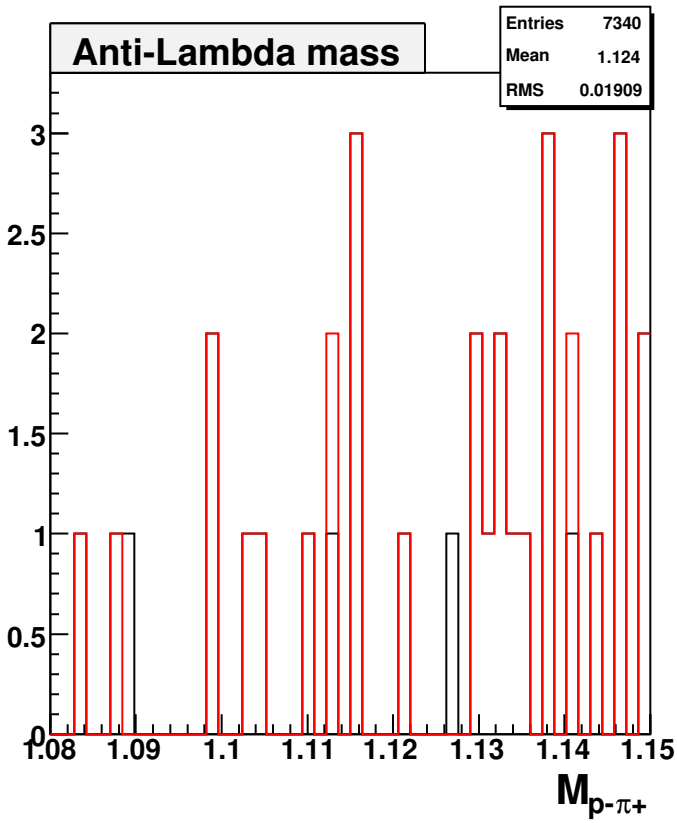


Vertices (Primary - best)

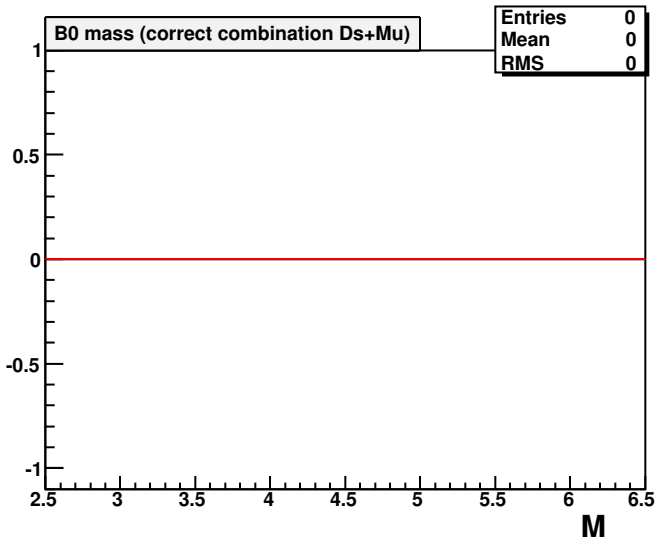

Kshort mass
Entries 7340
Mean 0.5003
RMS 0.1139
$M_{\pi\pi}$

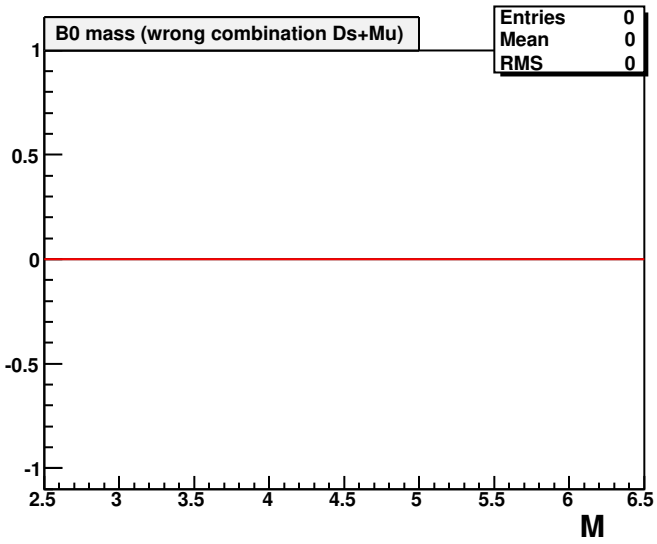

Lambda mass
Entries 7340
Mean 1.132
RMS 0.01666
$M_{p+\pi-}$

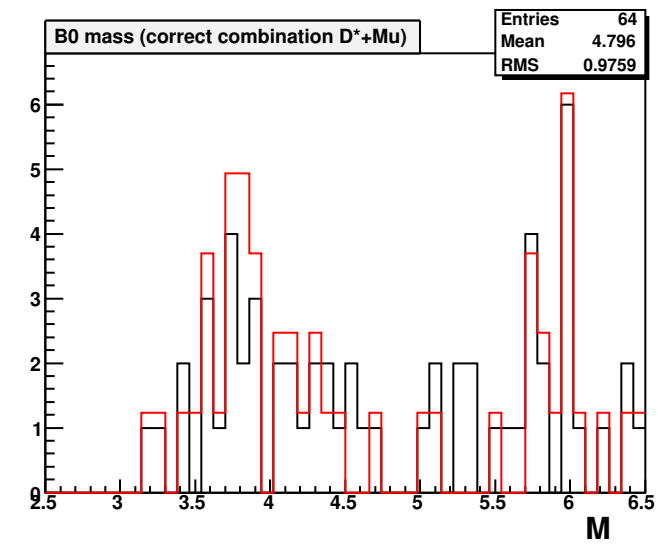

Jpsi mass
Entries 47
Mean 2.791
RMS 0.5752
$M_{\mu\mu}$

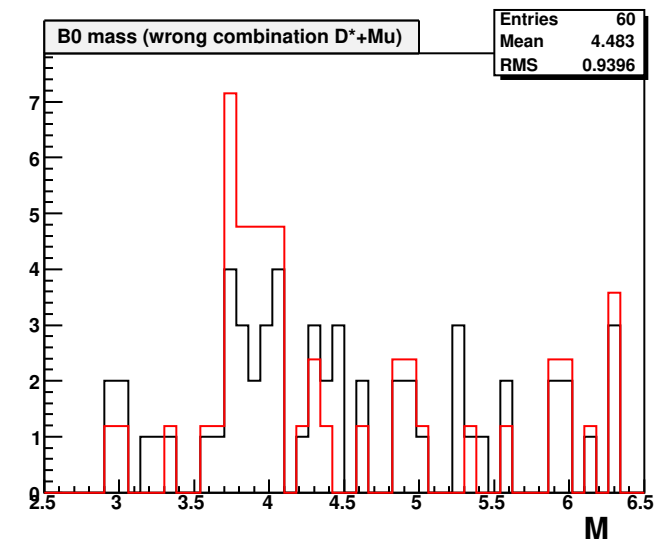

Anti-Lambda mass
Entries 7340
Mean 1.124
RMS 0.01909
$M_{p-\pi+}$

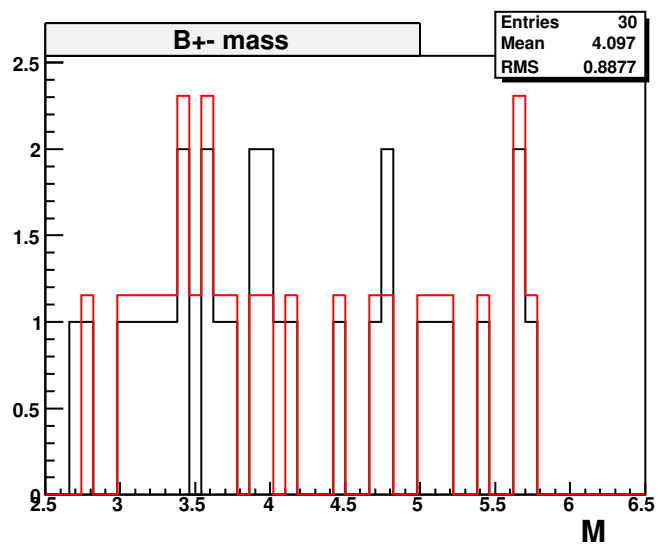
V0 (All)



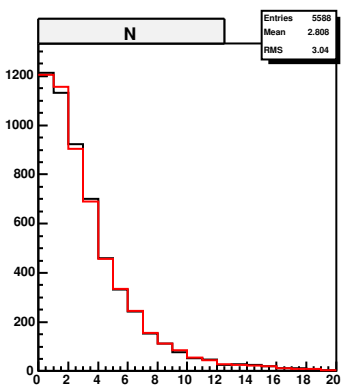


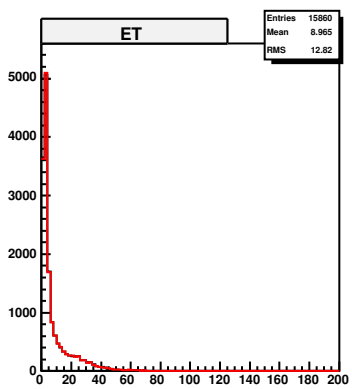


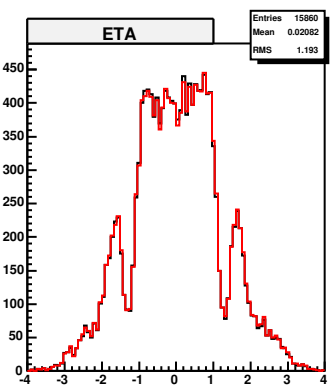


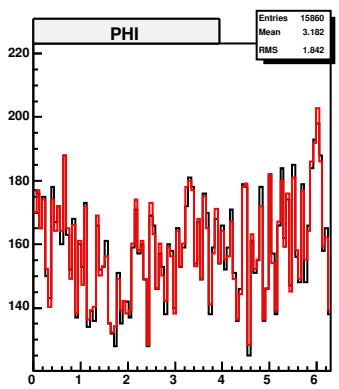


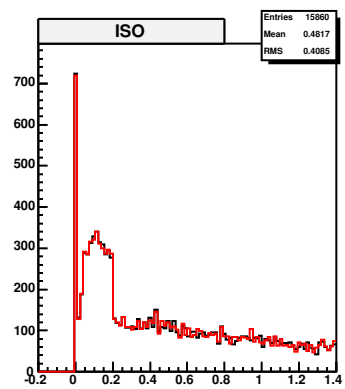
V0(B mesons) (All)

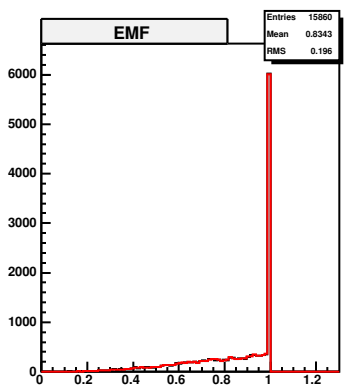


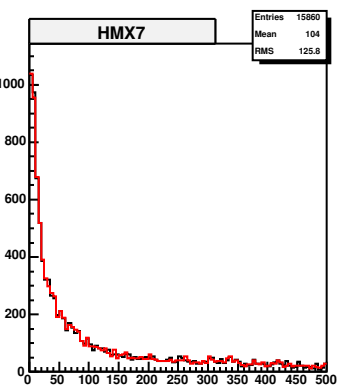


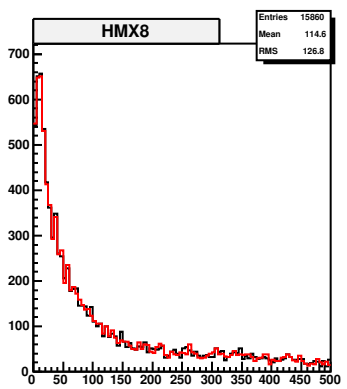


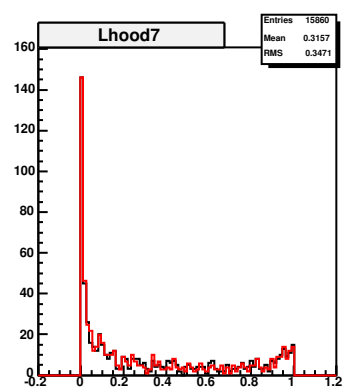


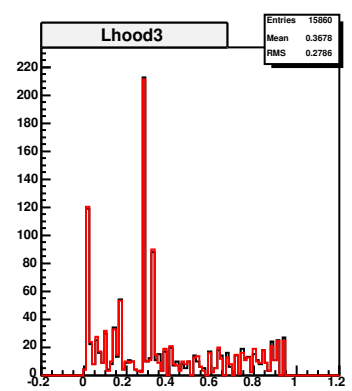


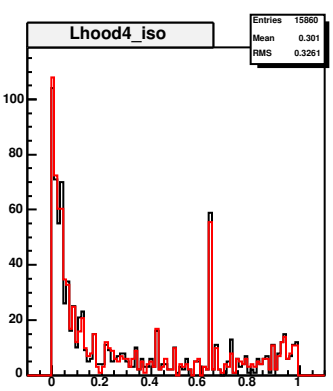


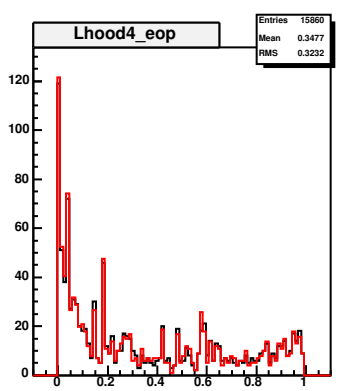


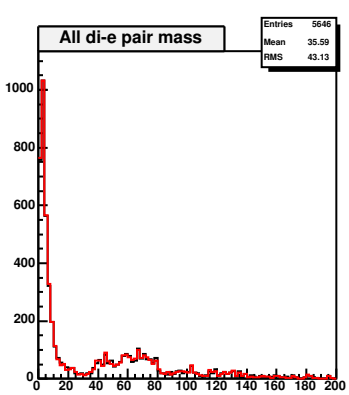


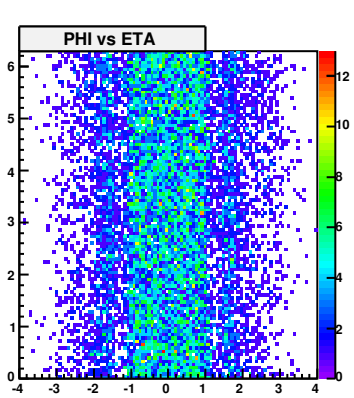


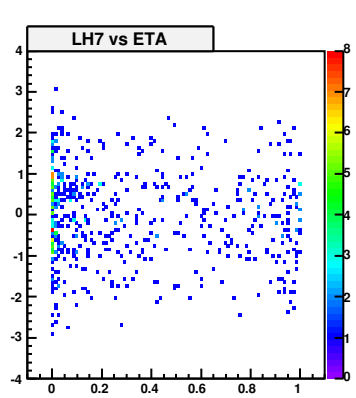


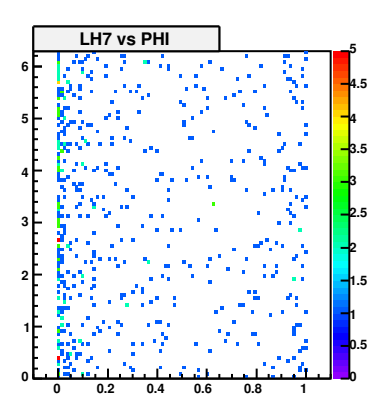




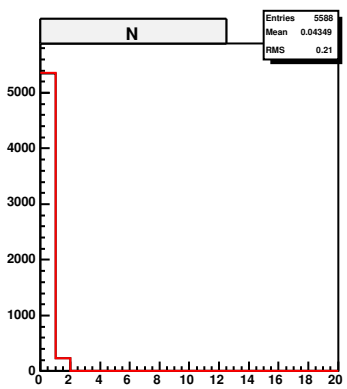


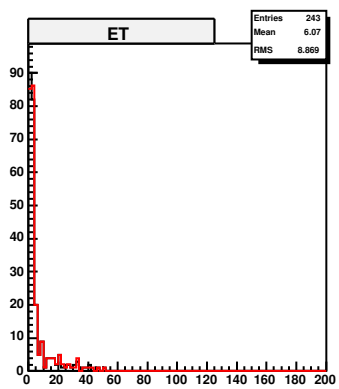


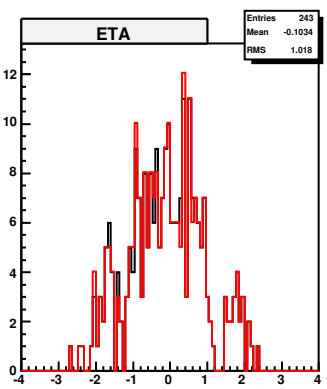


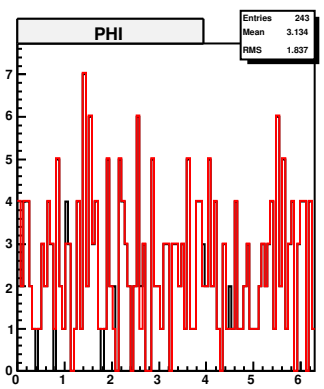


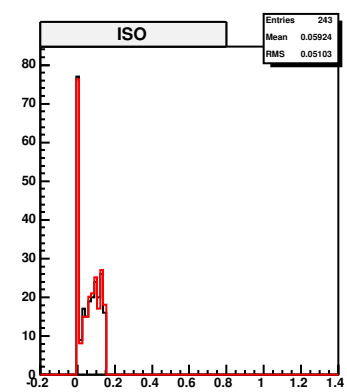
Electrons (SCONE All)

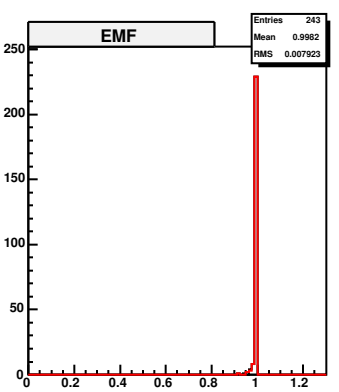


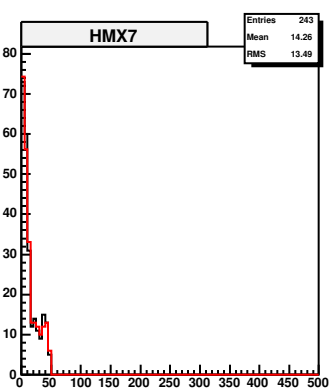


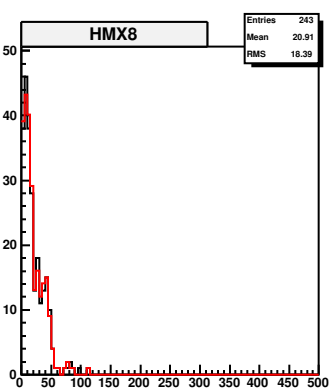


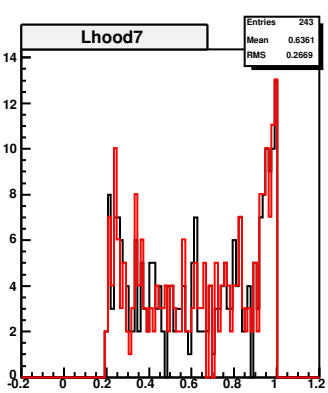


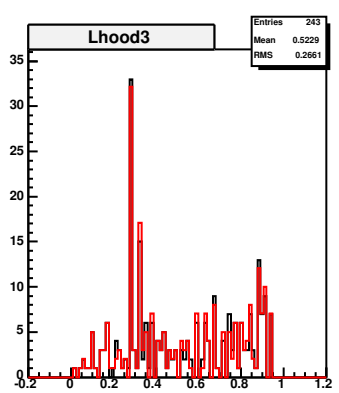


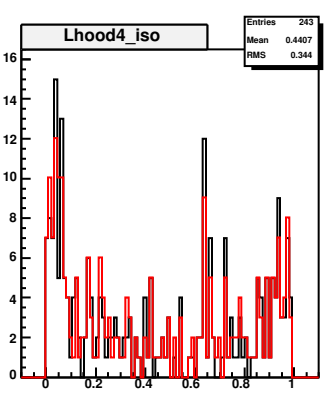


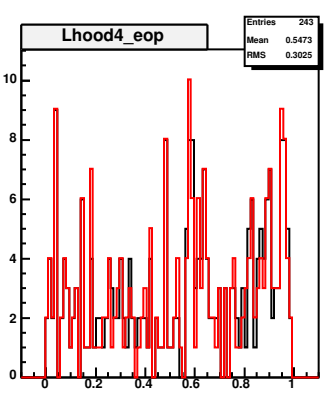


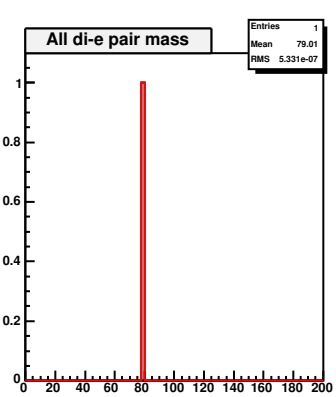


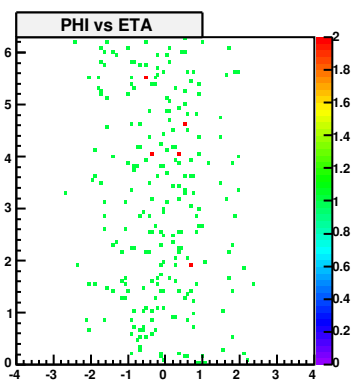


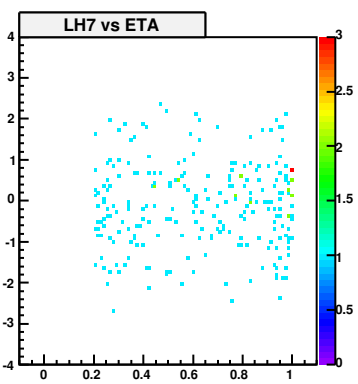


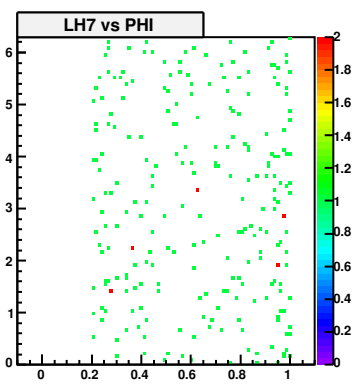




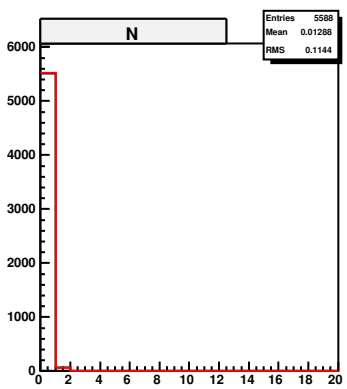


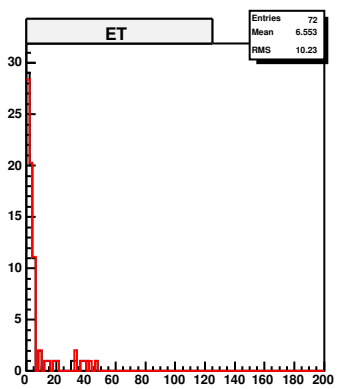


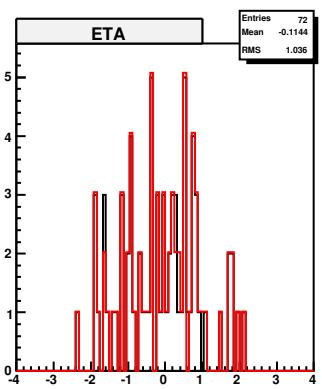


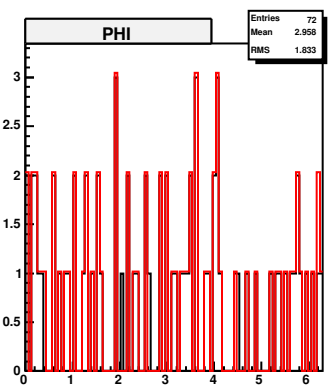


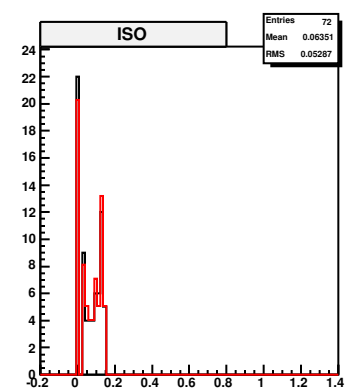
Electrons (SCONE Loose)

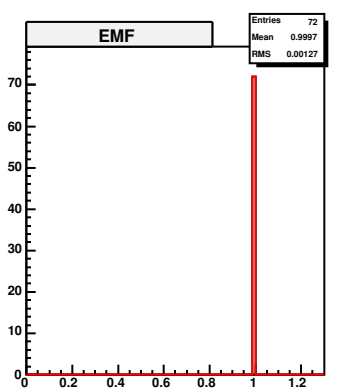


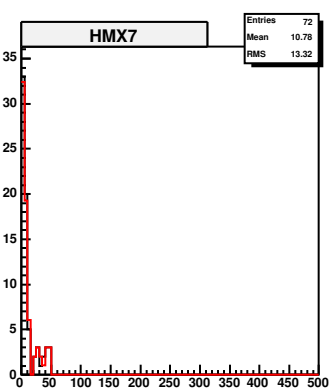


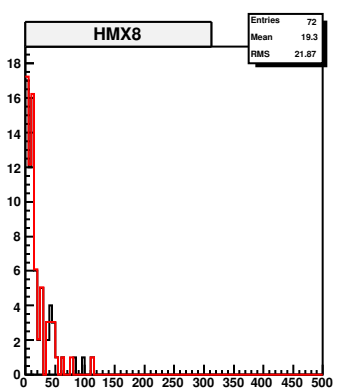


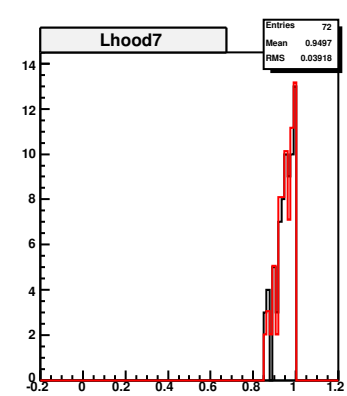


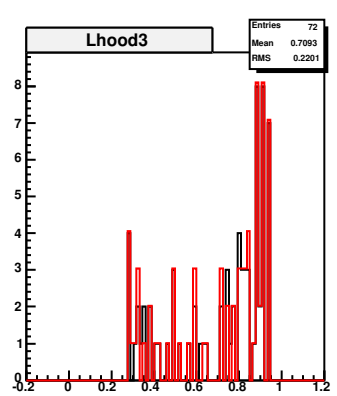


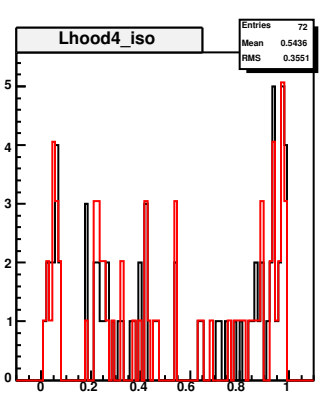


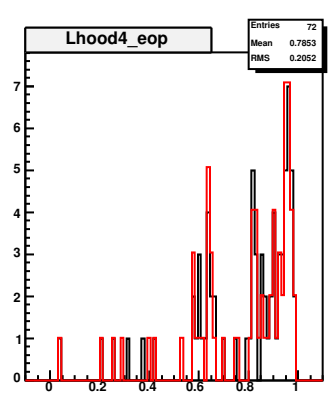


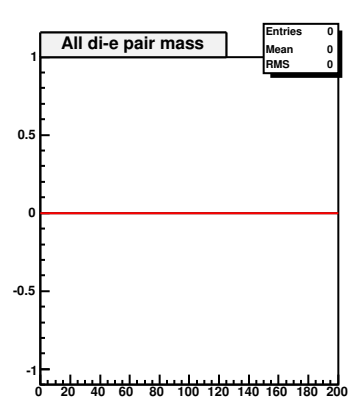


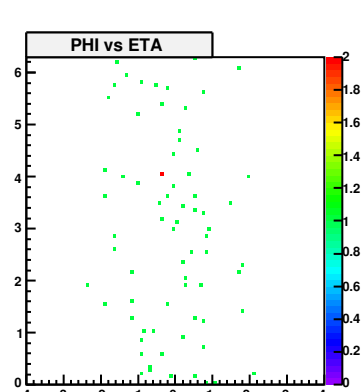


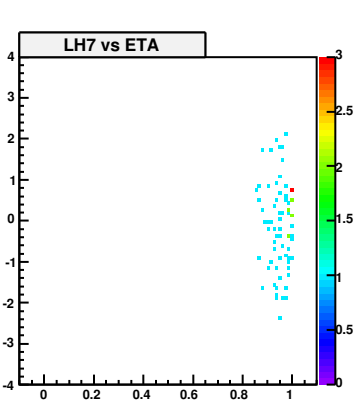


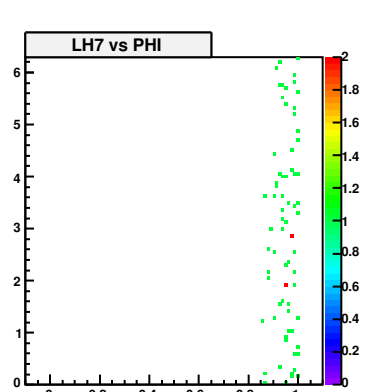




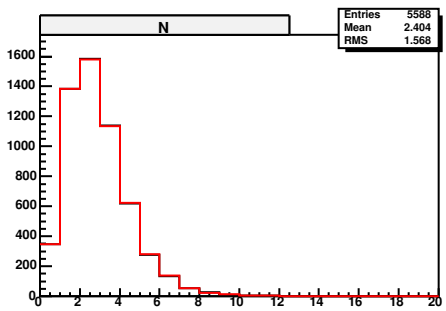


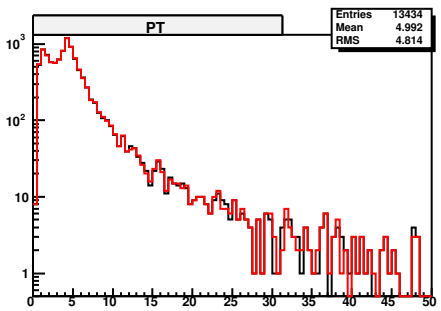


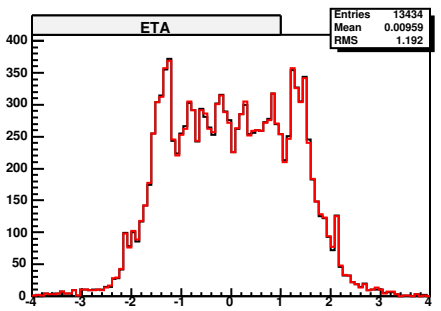


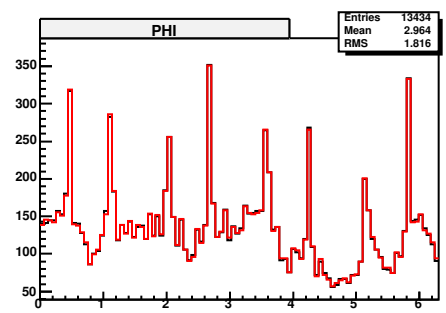


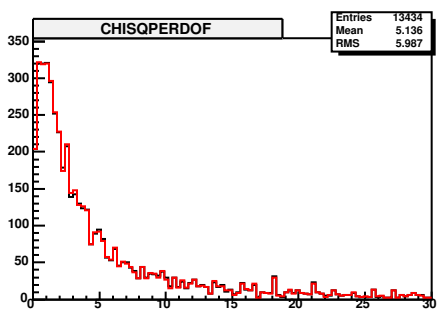
Electrons (SCONE Tight)

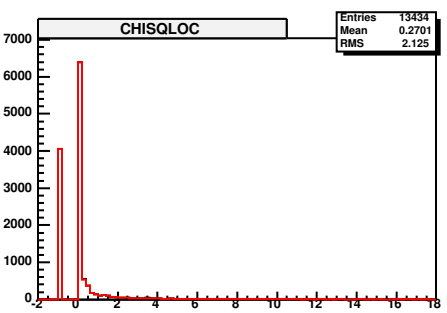

N
Entries 5588
Mean 2.404
RMS 1.568

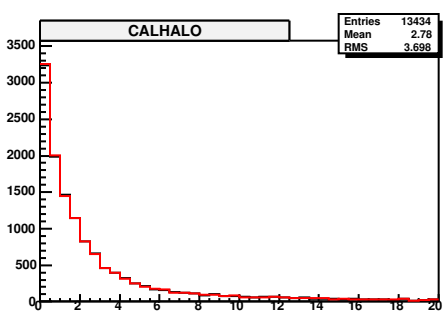

PT
Entries 13434
Mean 4.992
RMS 4.814

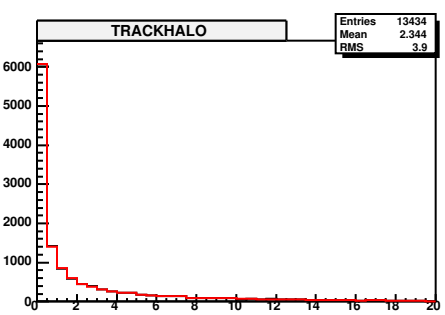

ETA
Entries 13434
Mean 0.00959
RMS 1.192

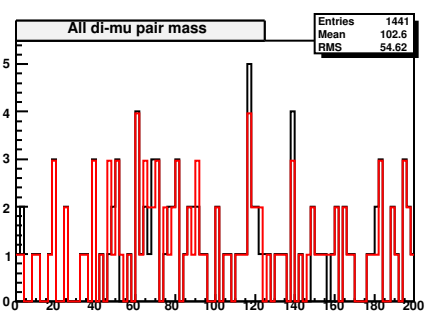

PHI
Entries 13434
Mean 2.964
RMS 1.816

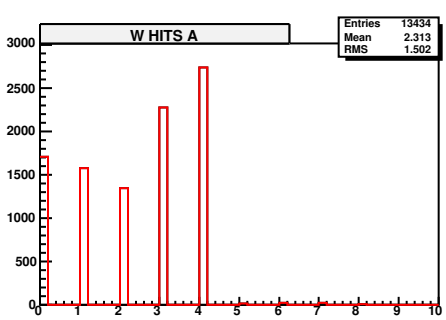

CHISQPERDOF
Entries 13434
Mean 5.136
RMS 5.987

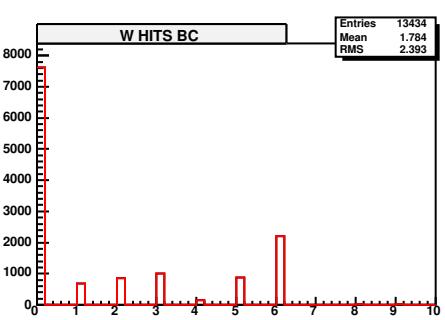

CHISQLOC
Entries 13434
Mean 0.2701
RMS 2.125

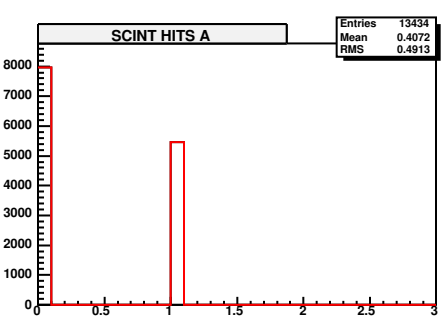

CALHALO
Entries 13434
Mean 2.78
RMS 3.698

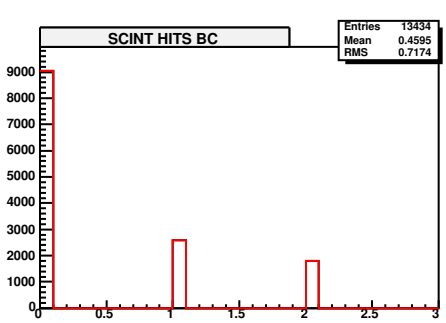

TRACKHALO
Entries 13434
Mean 2.344
RMS 3.9


All di-mu pair mass
Entries 1441
Mean 102.6
RMS 54.62

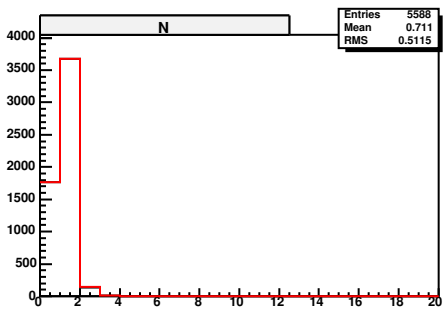

W HITS A
Entries 13434
Mean 2.313
RMS 1.502

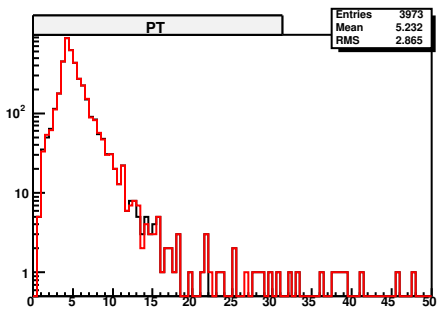

W HITS BC
Entries 13434
Mean 1.784
RMS 2.393

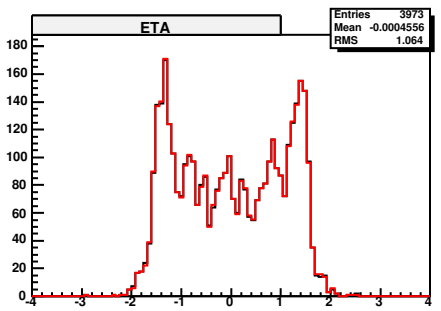

SCINT HITS A
Entries 13434
Mean 0.4072
RMS 0.4913

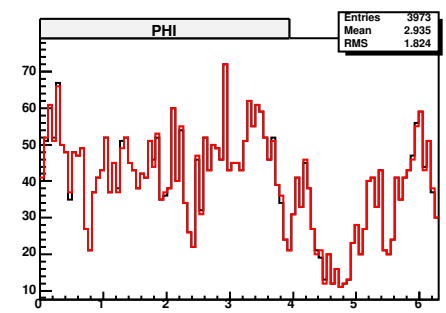

SCINT HITS BC
Entries 13434
Mean 0.4595
RMS 0.7174

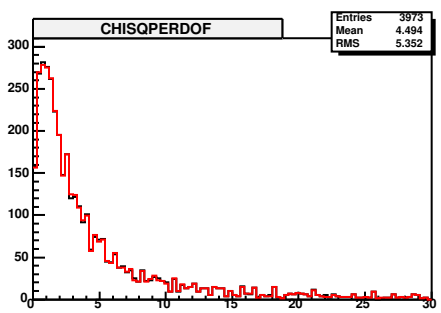
Muons (All)

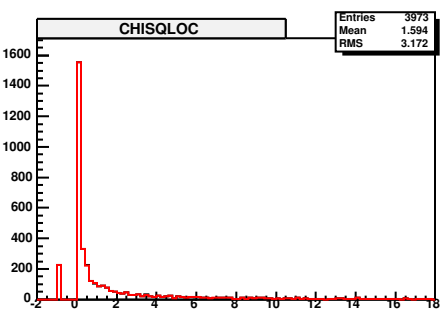


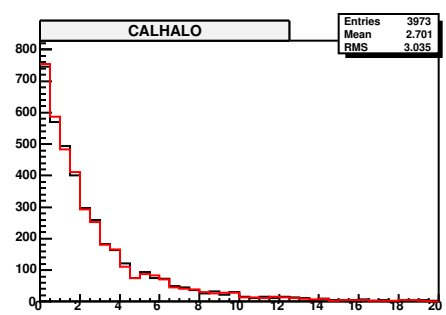


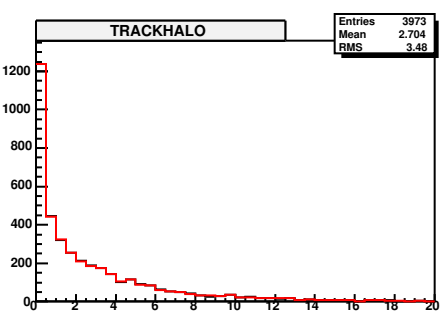


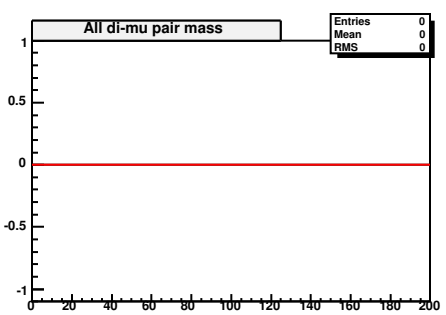


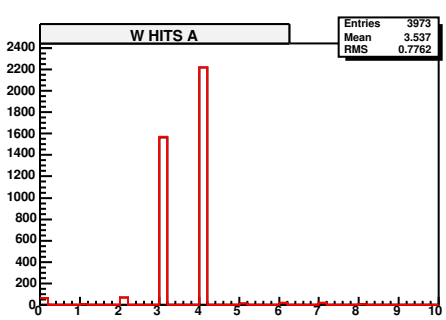


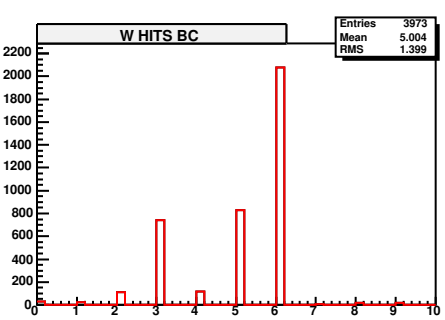


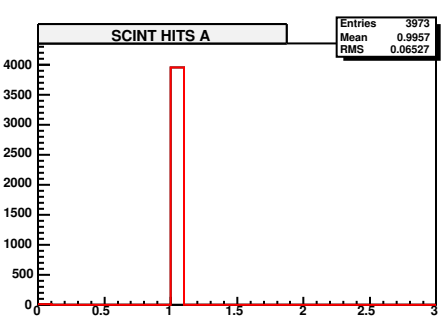


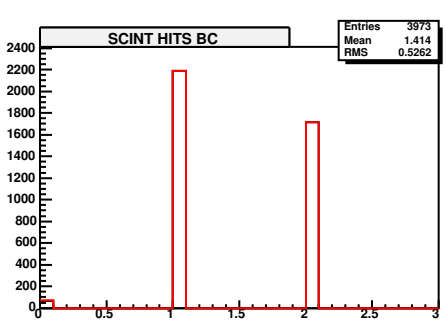




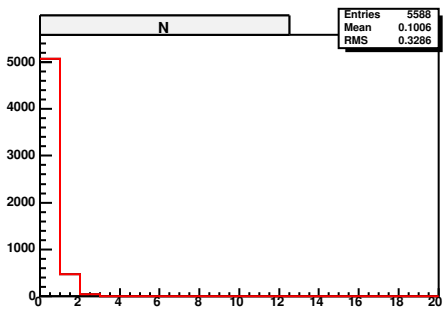


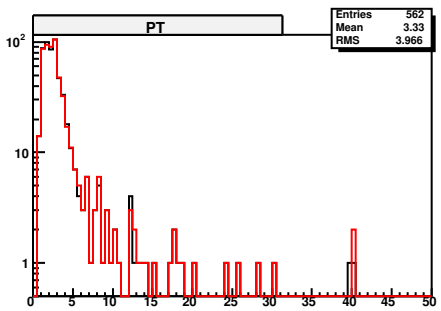


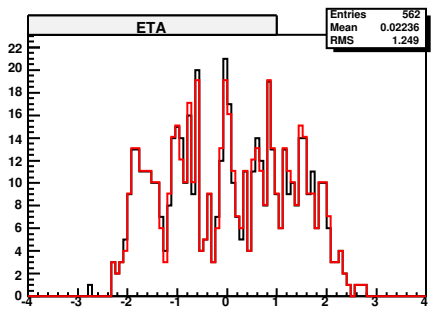


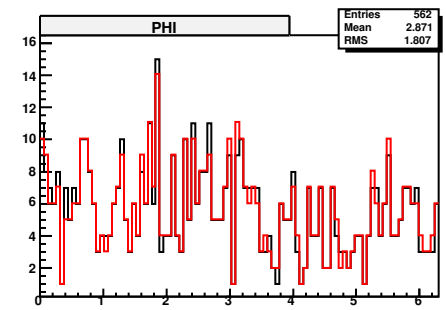


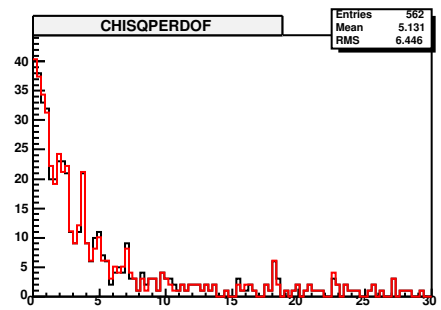
Muons (Matched)

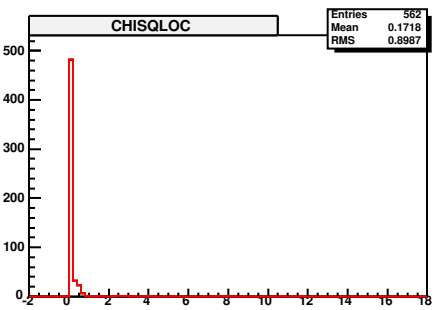

N
Entries 5588
Mean 0.1006
RMS 0.3286

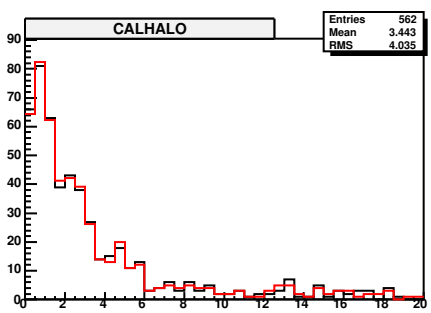

PT
Entries 562
Mean 3.33
RMS 3.966

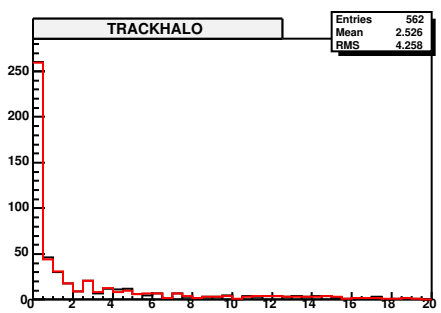

ETA
Entries 562
Mean 0.02236
RMS 1.249

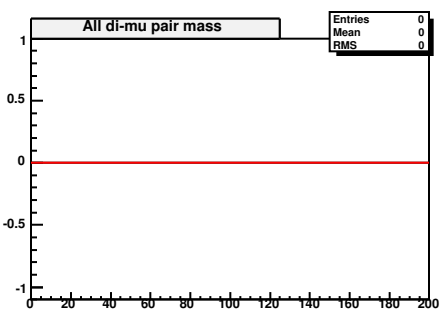

PHI
Entries 562
Mean 2.871
RMS 1.807

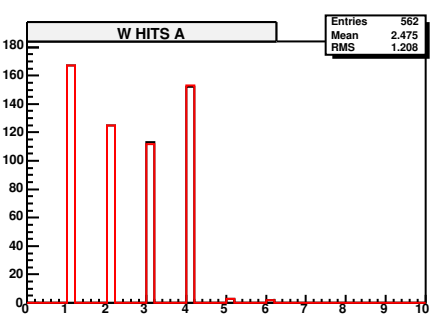

CHISQPERDOF
Entries 562
Mean 5.131
RMS 6.446

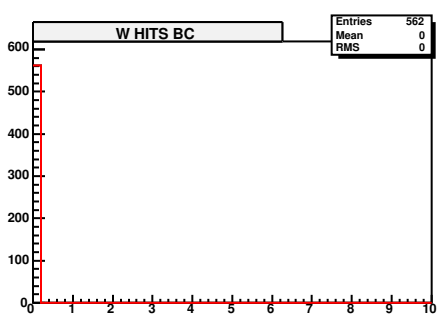

CHISQLOC
Entries 562
Mean 0.1718
RMS 0.8987

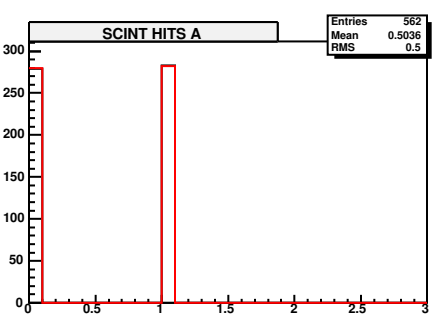

CALHALO
Entries 562
Mean 3.443
RMS 4.035

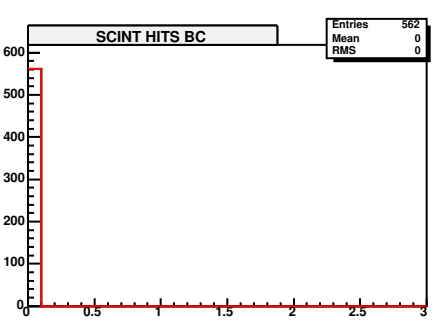

TRACKHALO
Entries 562
Mean 2.526
RMS 4.258


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

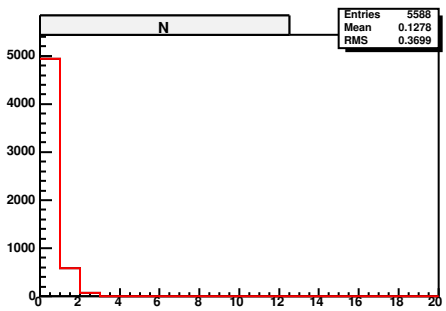

W HITS A
Entries 562
Mean 2.475
RMS 1.208

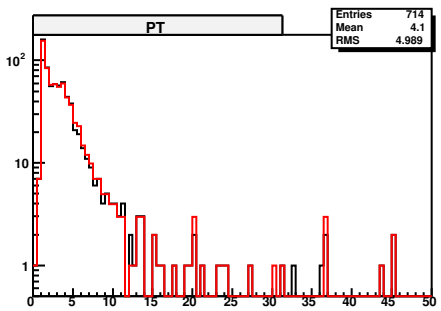

W HITS BC
Entries 562
Mean 0
RMS 0

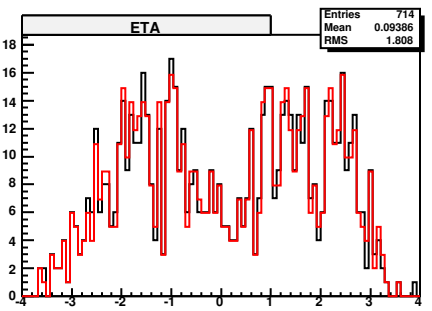

SCINT HITS A
Entries 562
Mean 0.5036
RMS 0.5

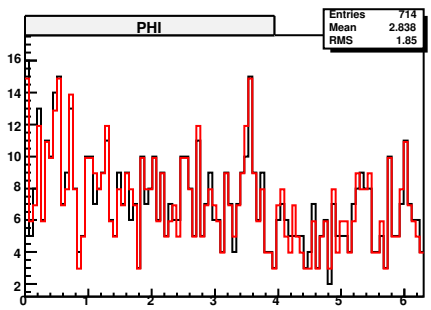

SCINT HITS BC
Entries 562
Mean 0
RMS 0

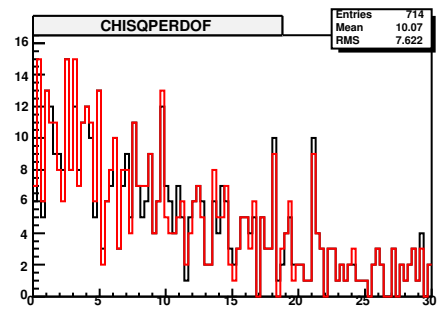
Muons (Astub)

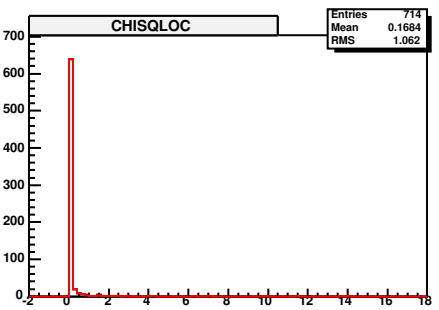


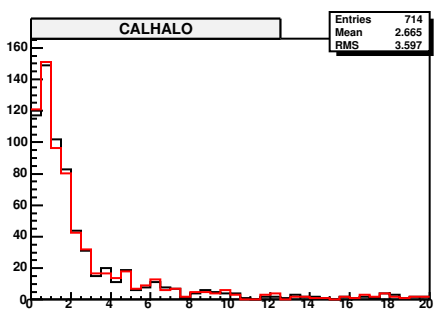


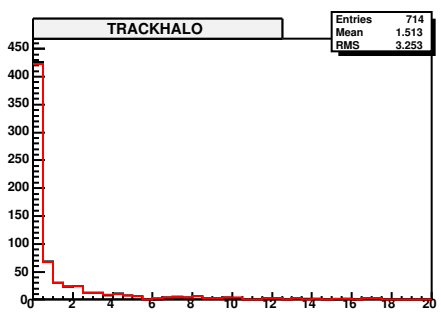


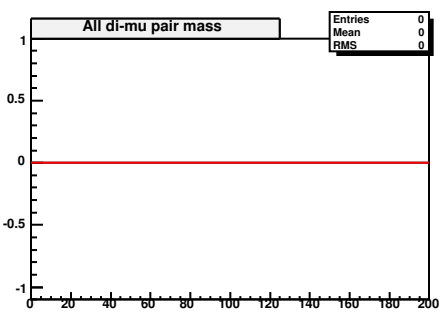


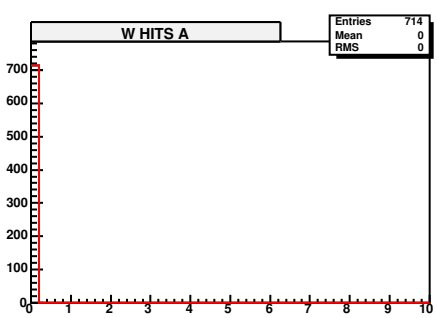


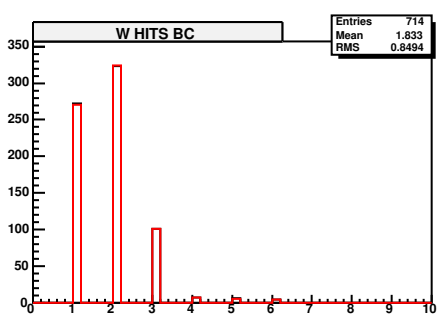


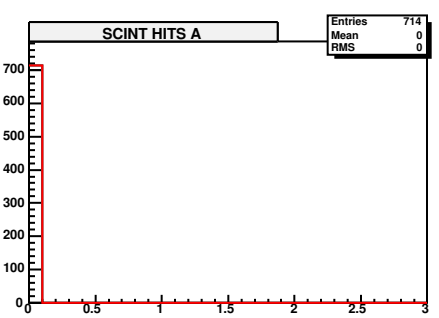


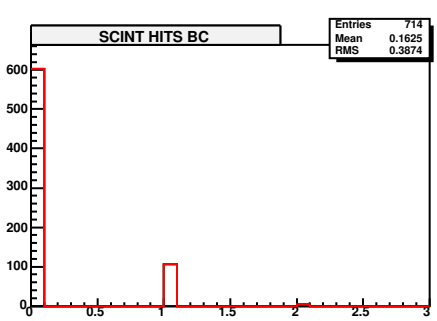




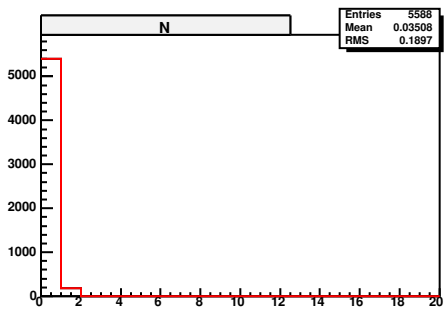


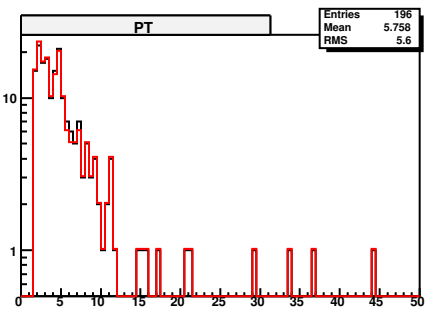


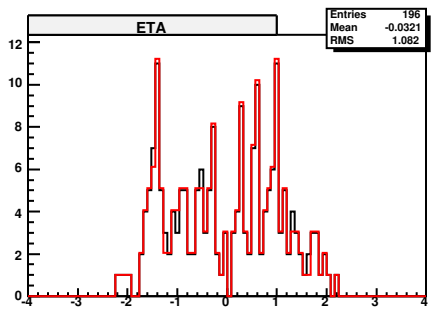


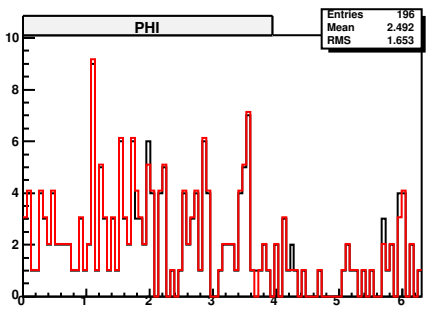


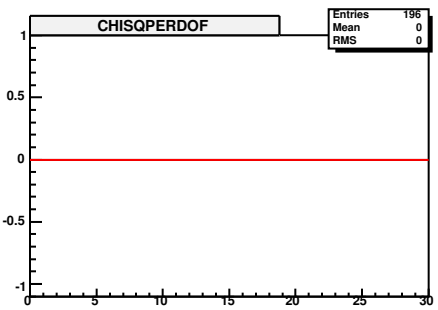
Muons (BCstub)

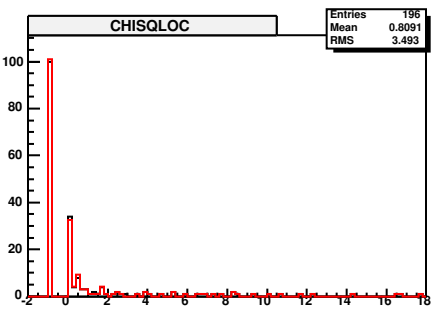


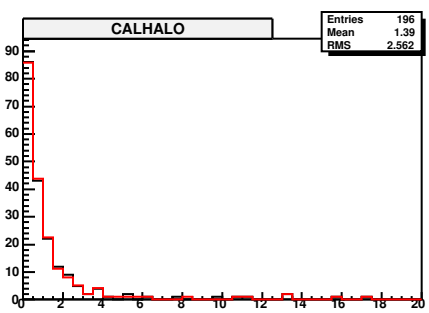


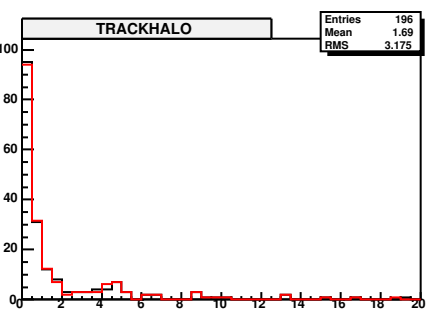


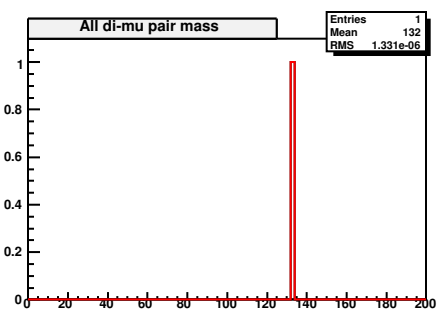


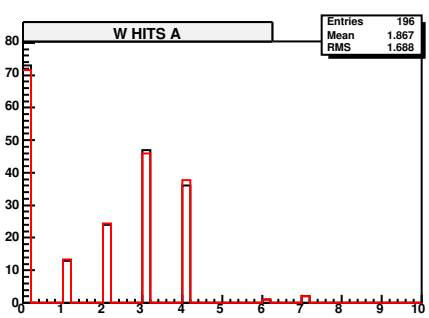


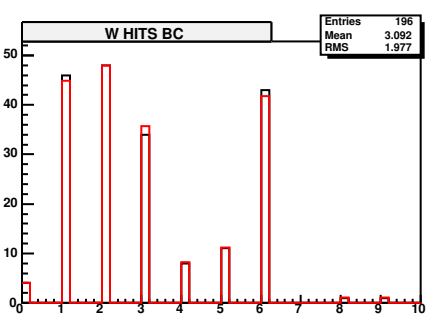


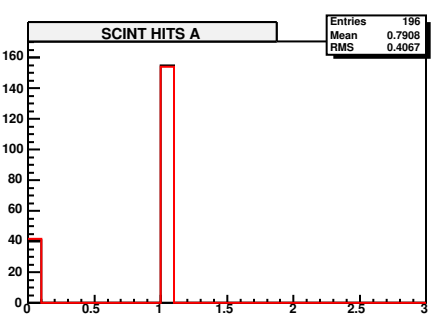


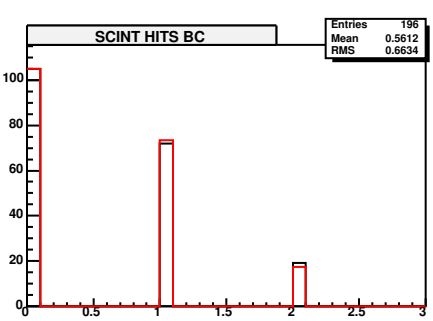




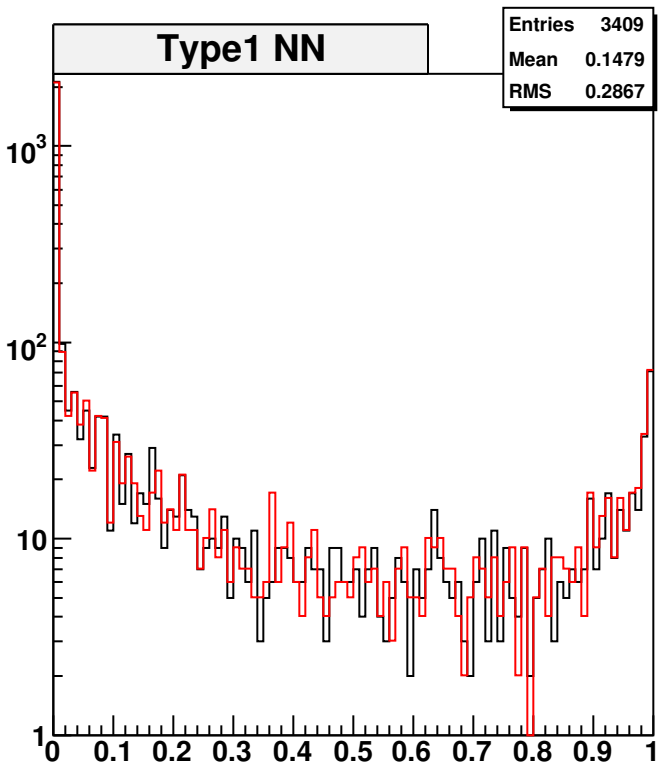


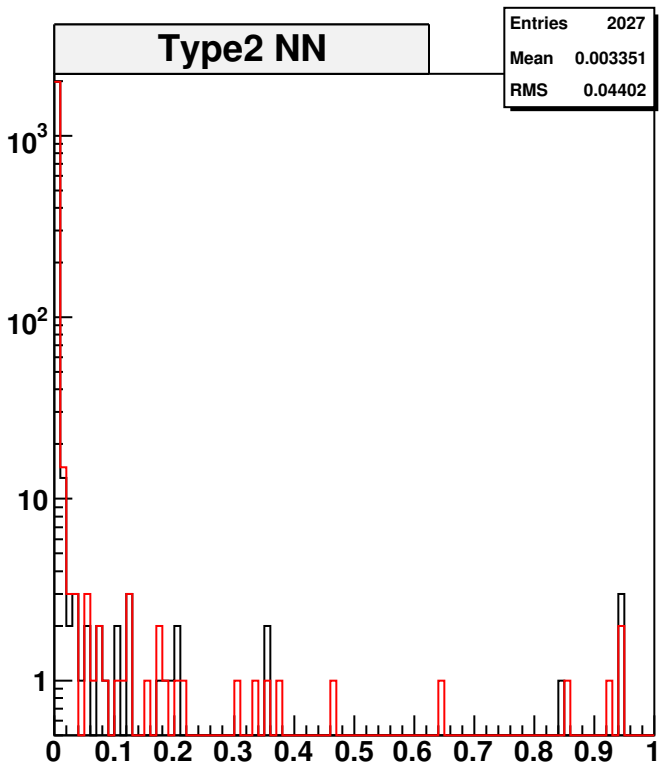


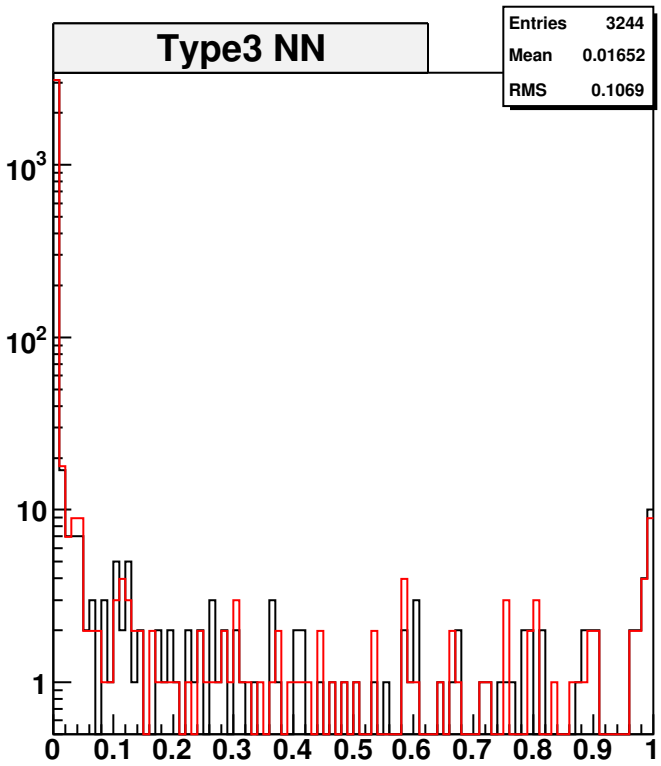


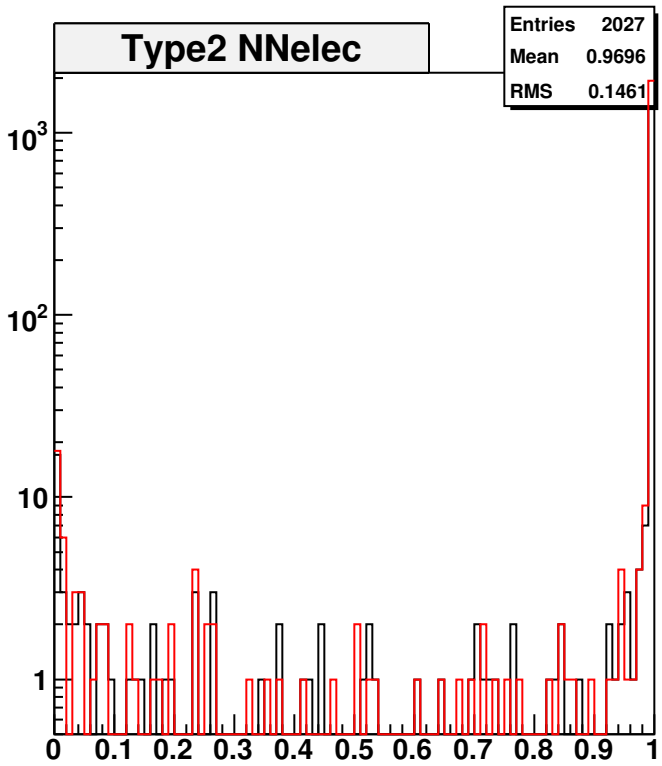


Muons (Unmatched)

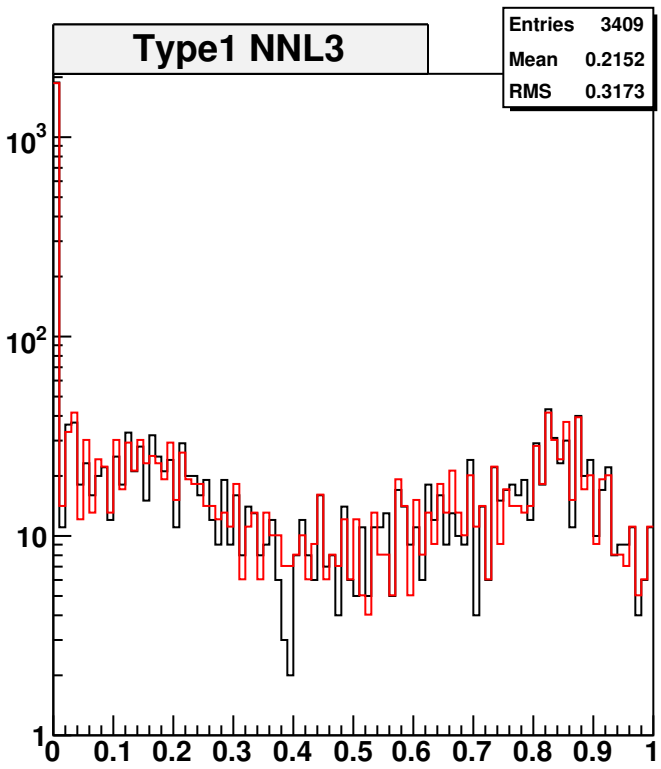


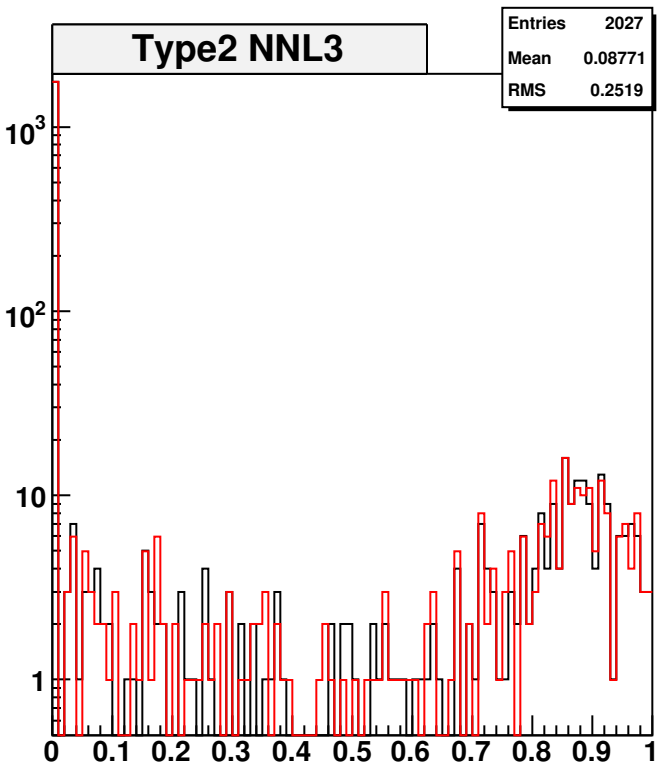


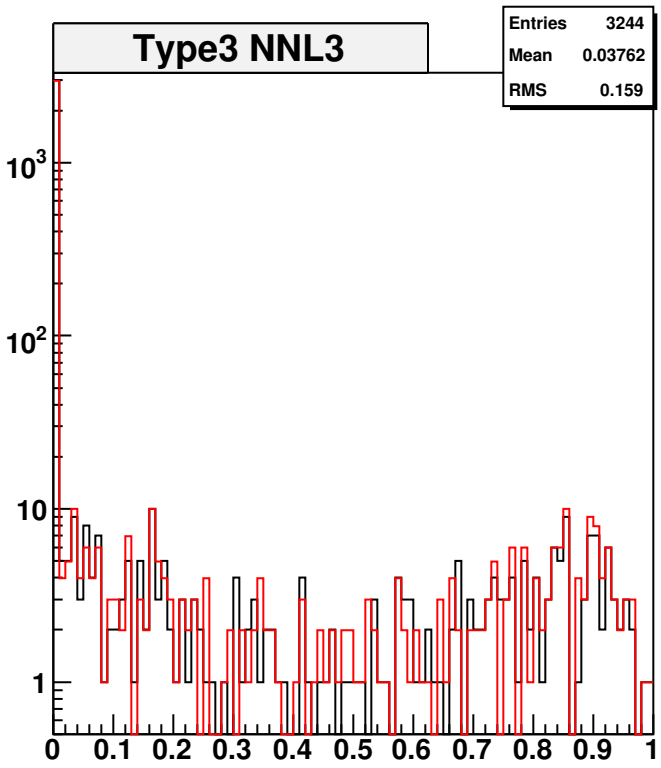


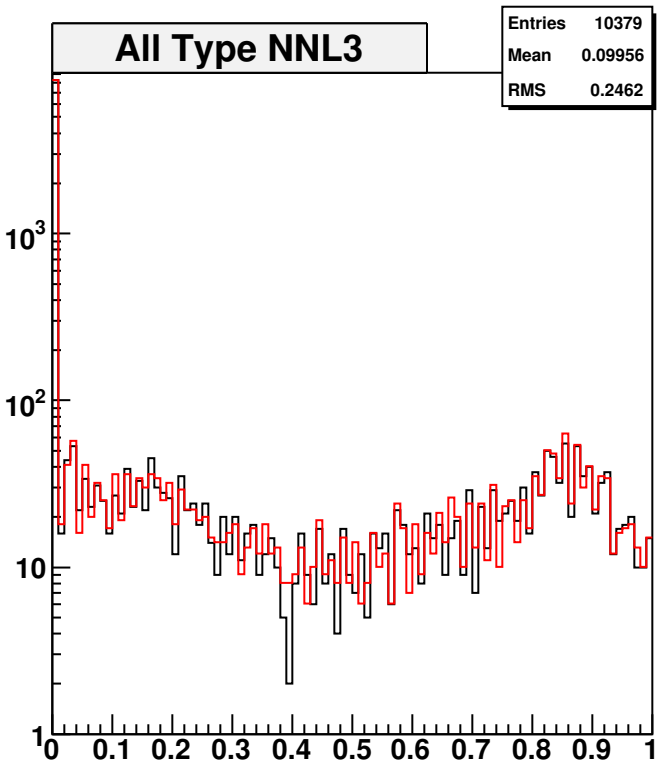


Taus NN (TAU All)

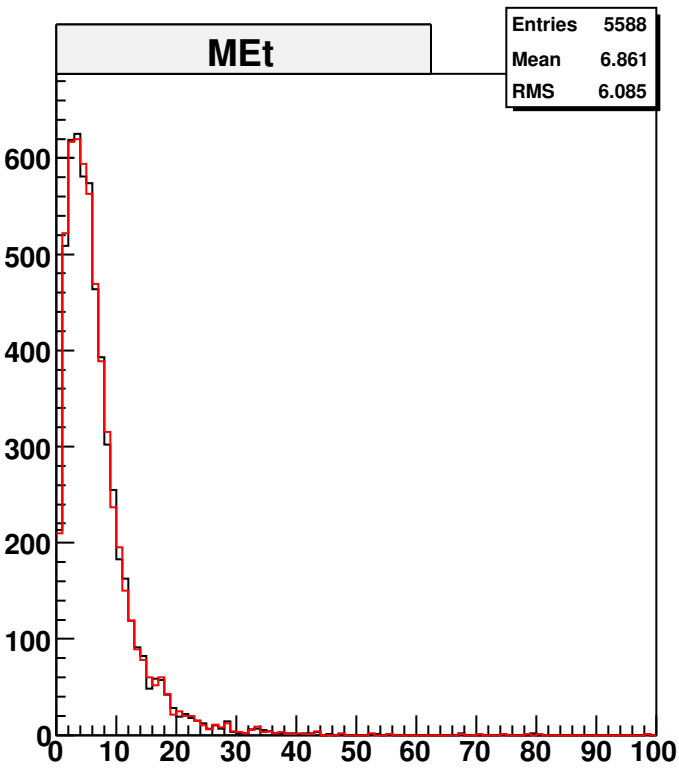








Taus NNL3 (TAU All)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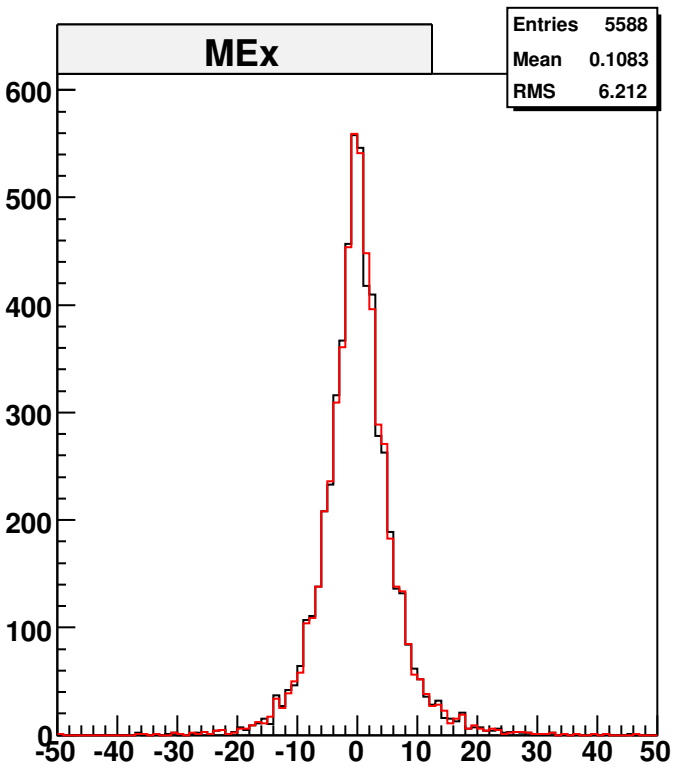
Mean 6.861
RMS 6.085
600
500
400
300
200
100
0
0 10 20 30 40 50 60 70 80 90 100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Entries 5588
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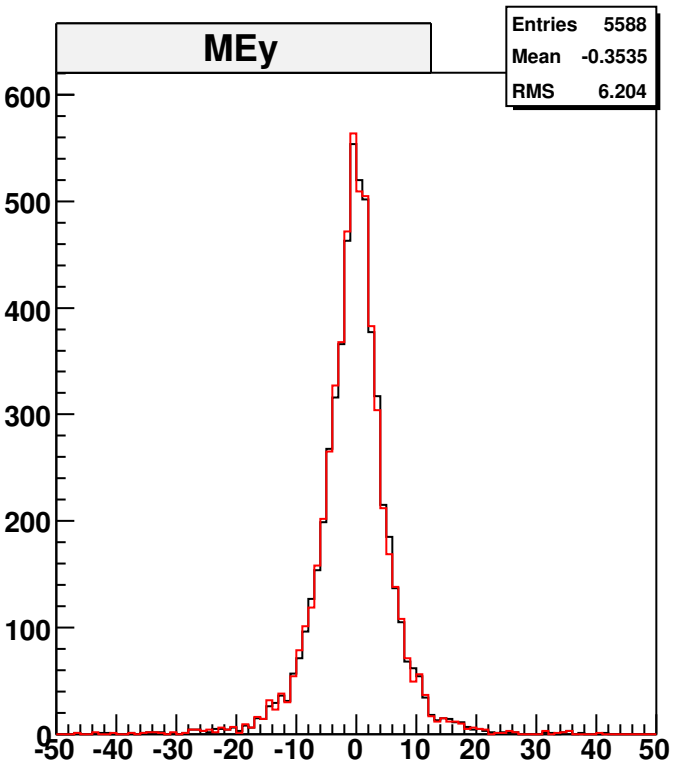
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Entries 5588
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200
100
0
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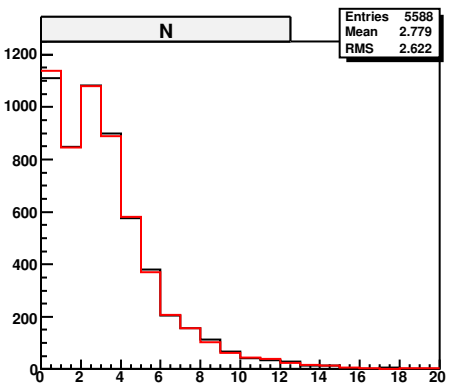
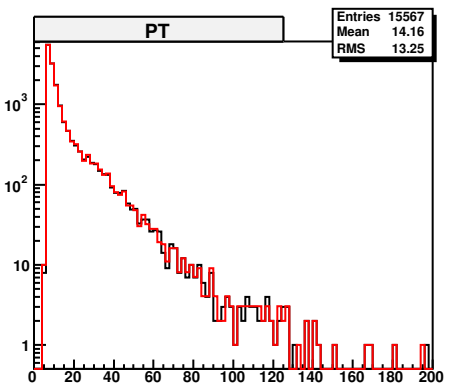
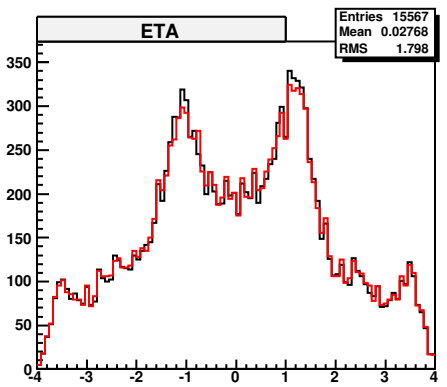
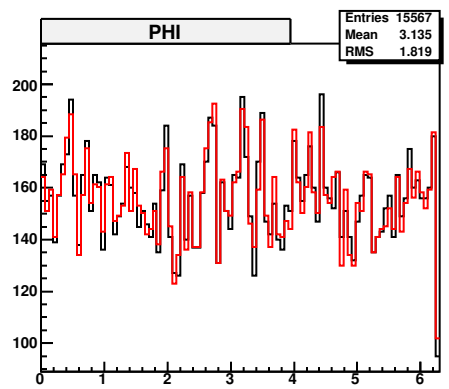
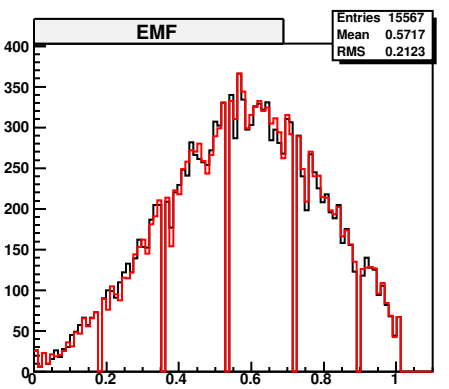
Met (No cuts)

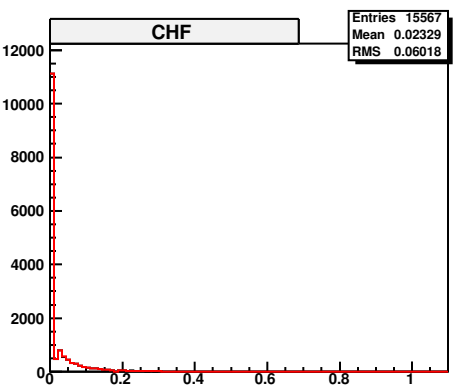


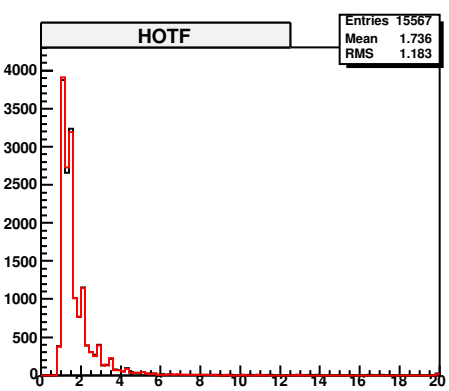


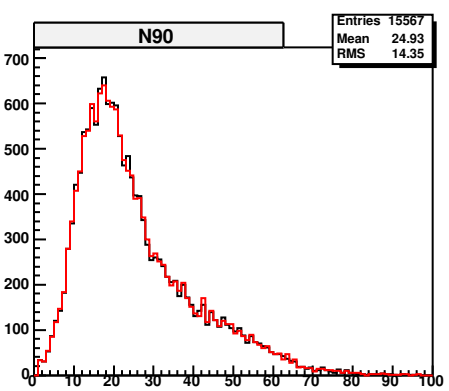


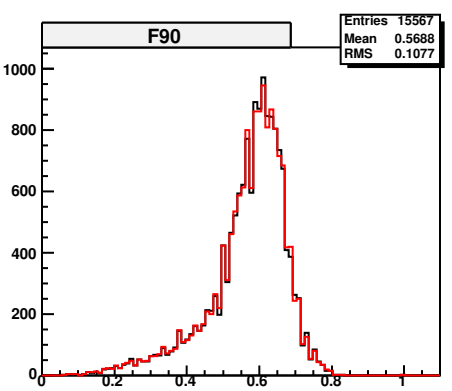


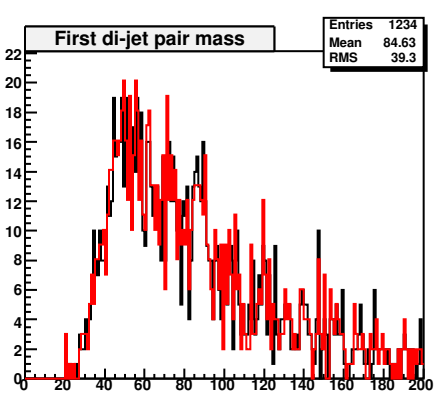


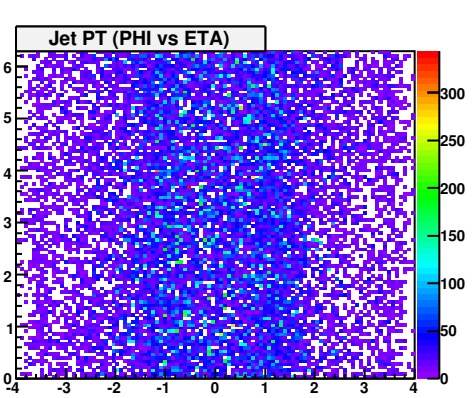




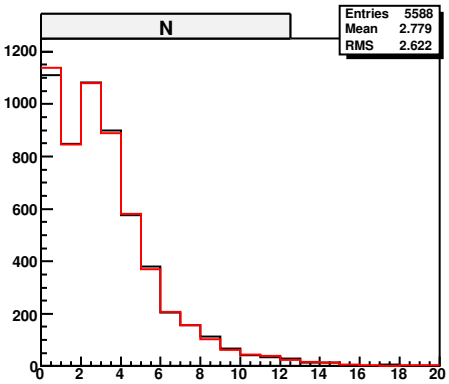


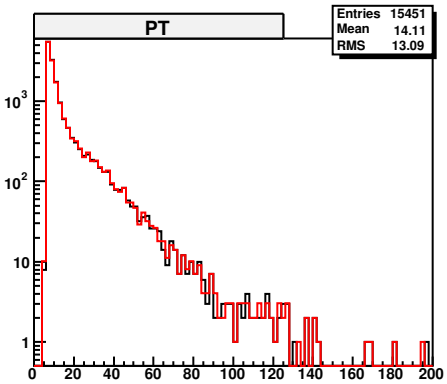


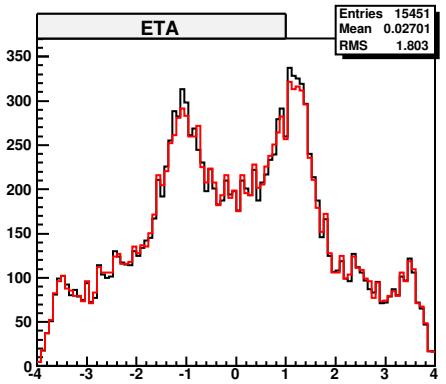


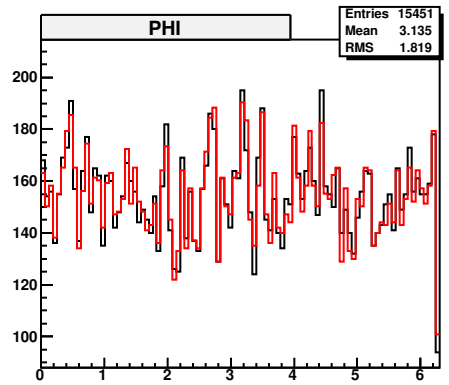


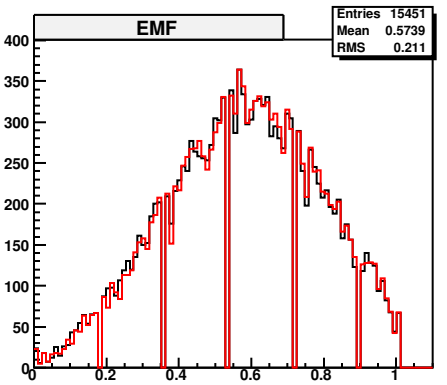
Jets (Cone R 0.7 (no cuts))

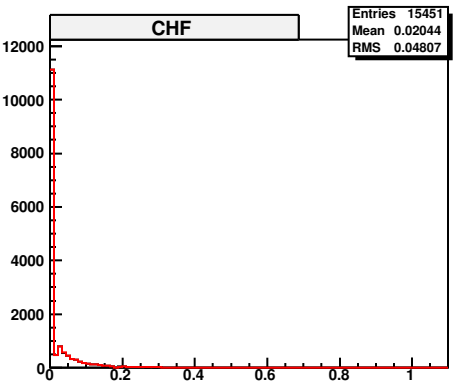


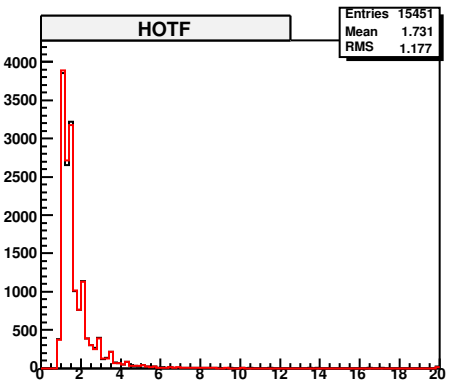


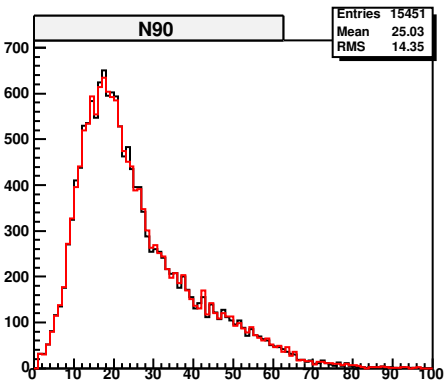


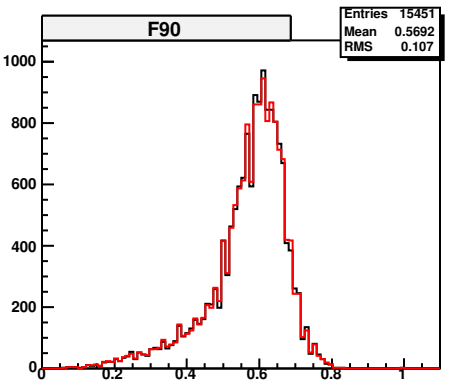


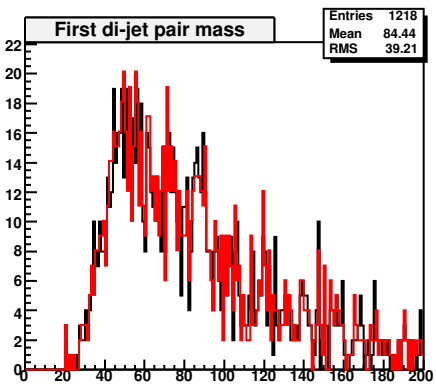


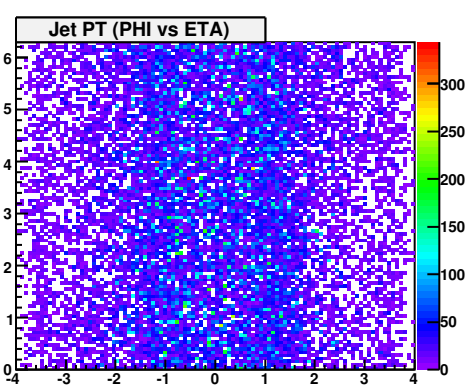




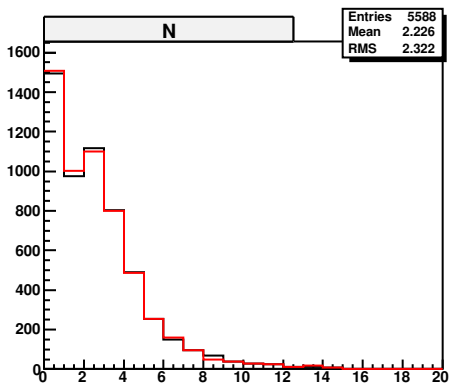


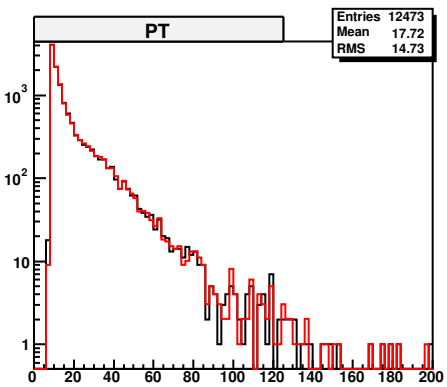


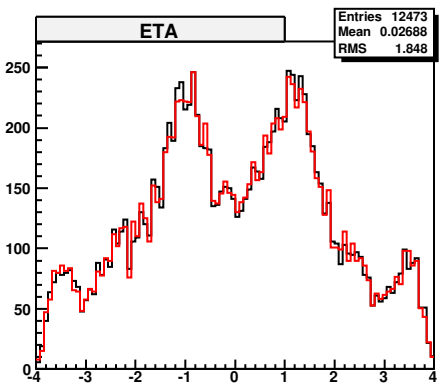


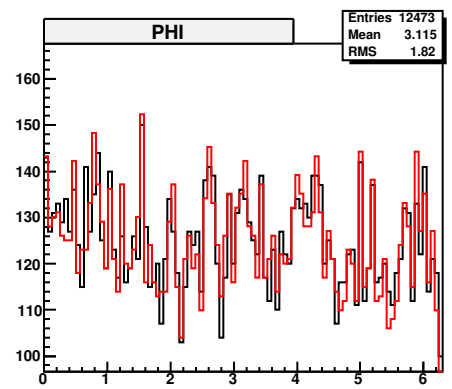


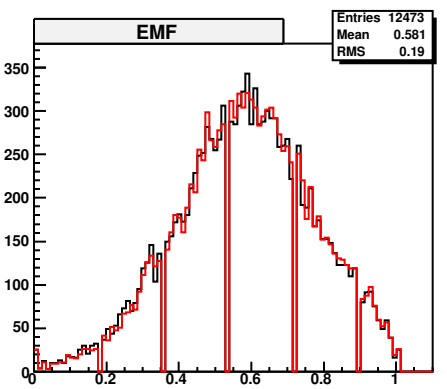
Jets (Cone R 0.7 (standard cuts))

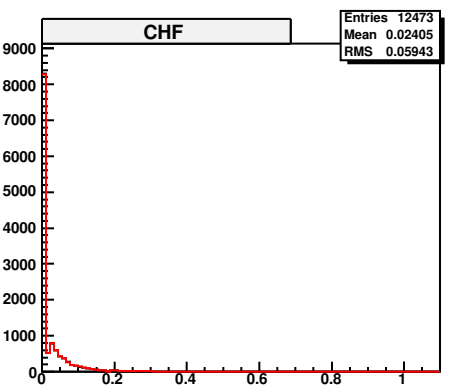


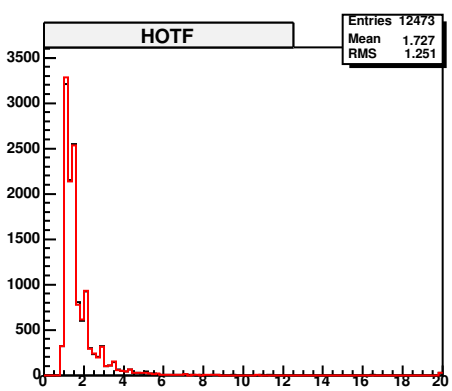


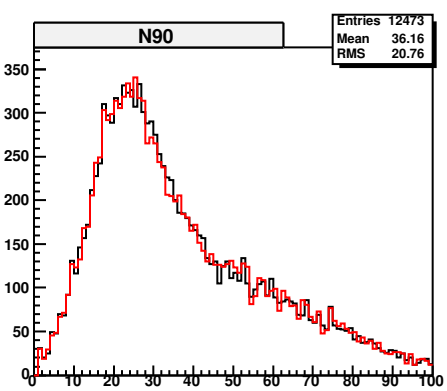


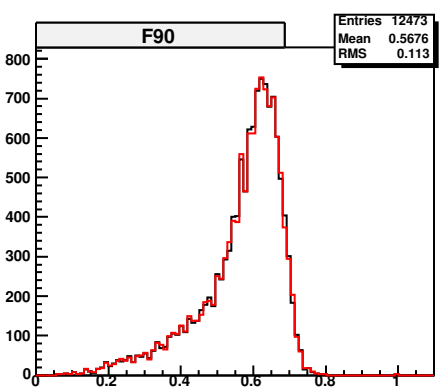


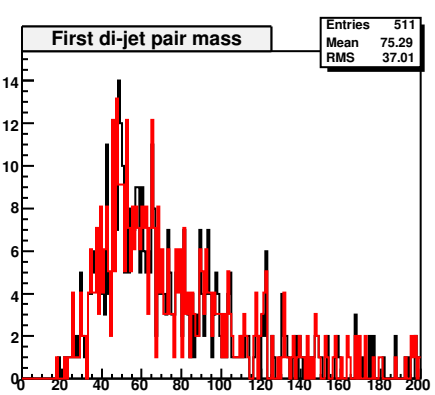


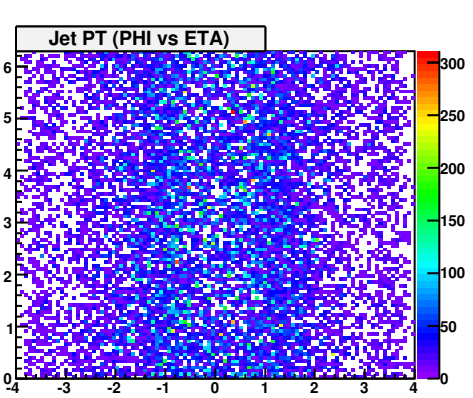




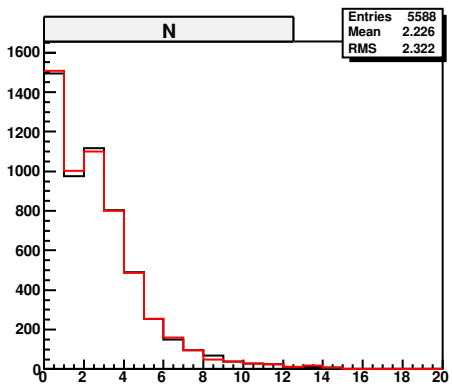


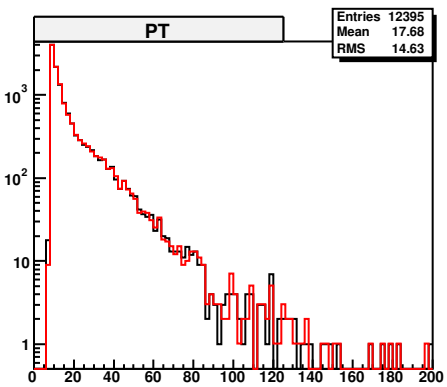


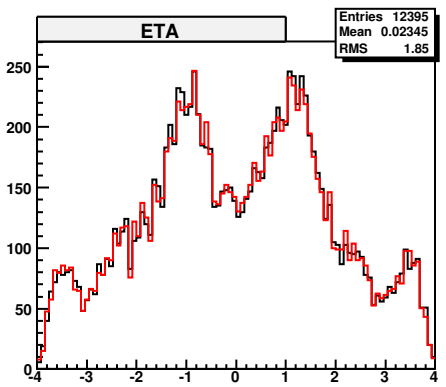


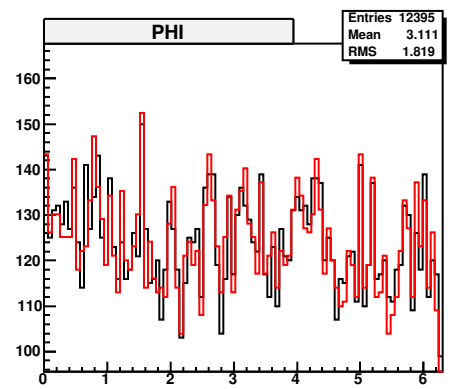


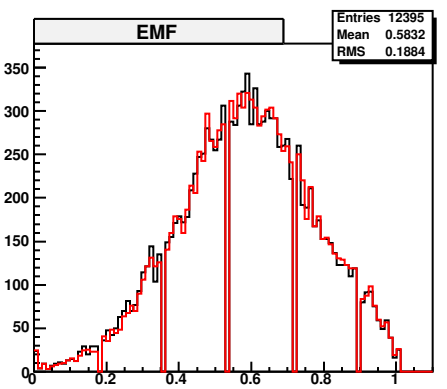
Jets (KT D 1 (no cuts))

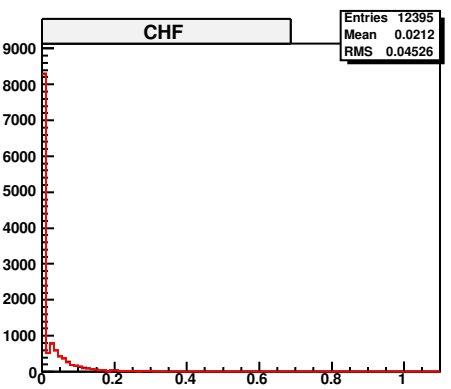


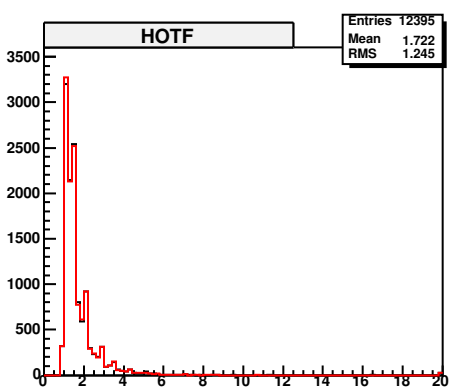


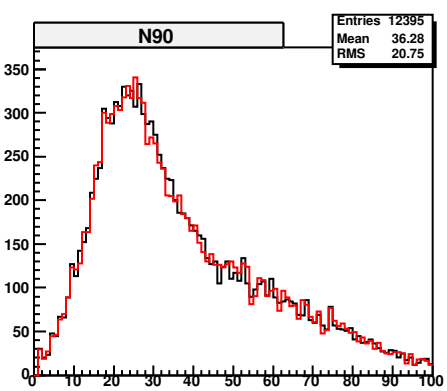


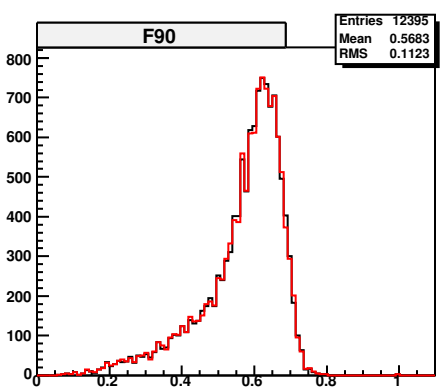


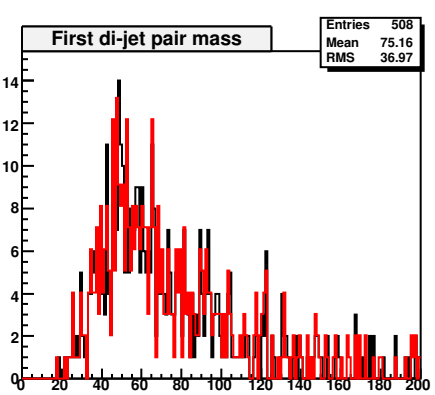


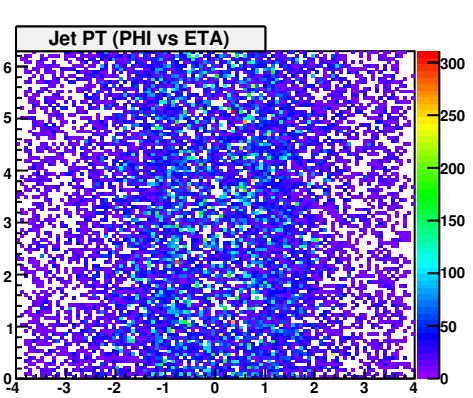




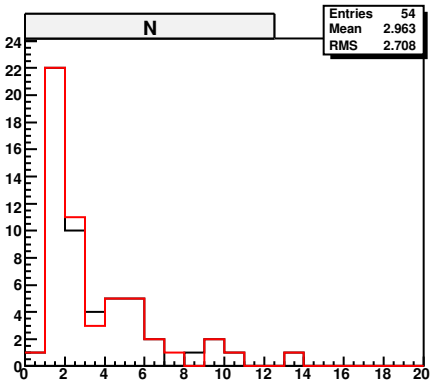


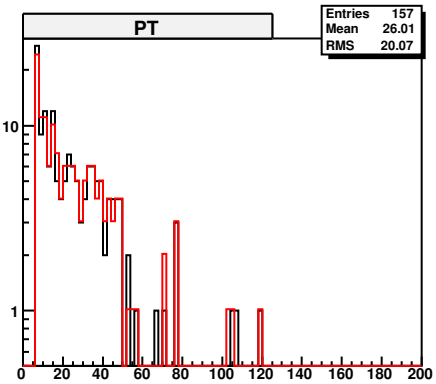


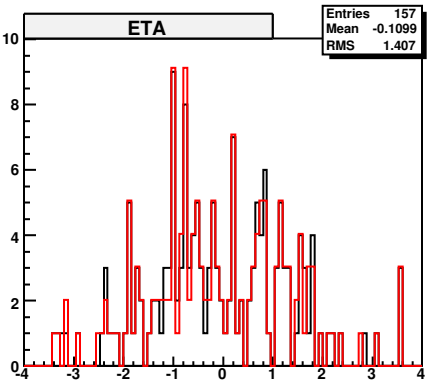


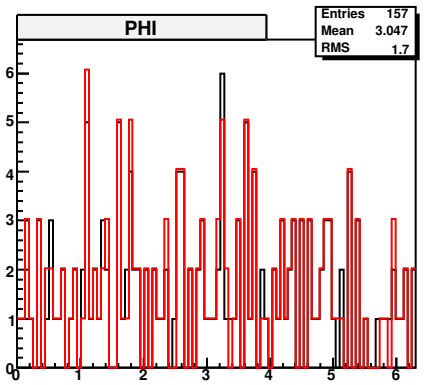


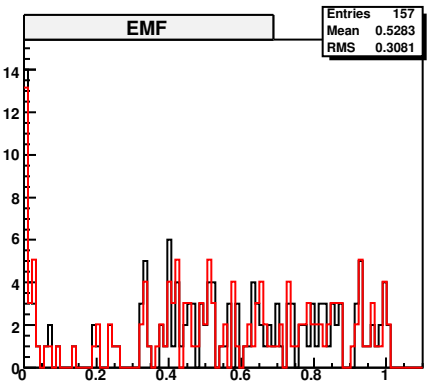
Jets (KT D 1 (standard cuts))

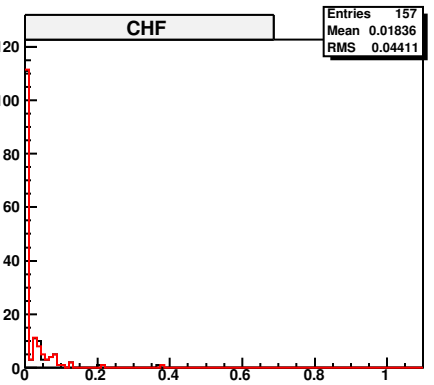


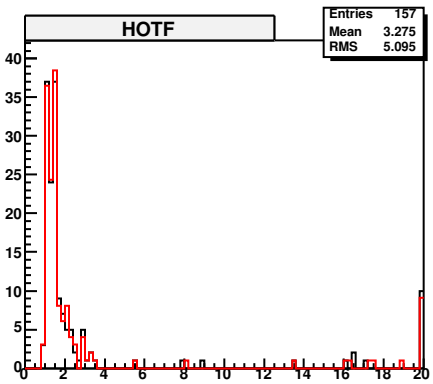


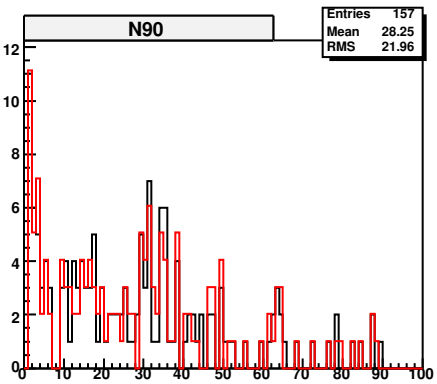


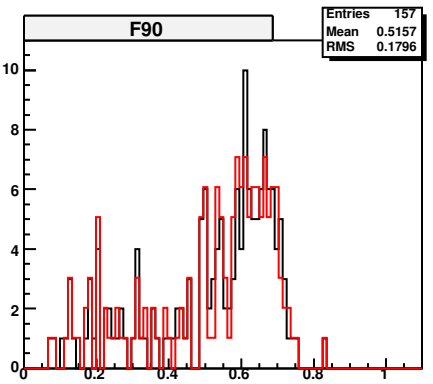


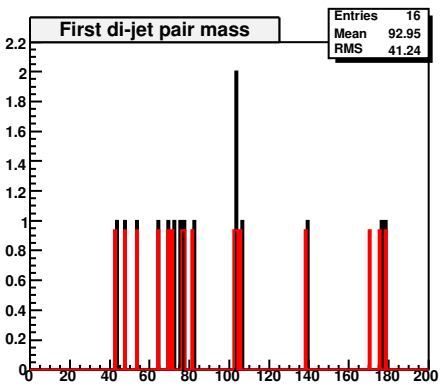


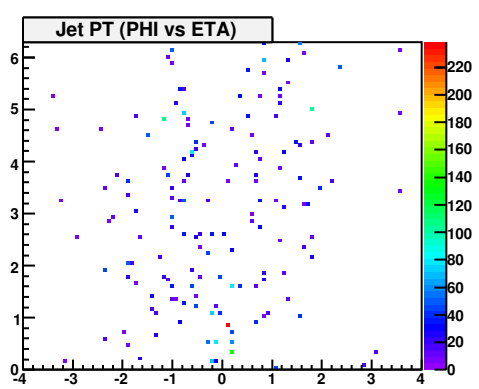




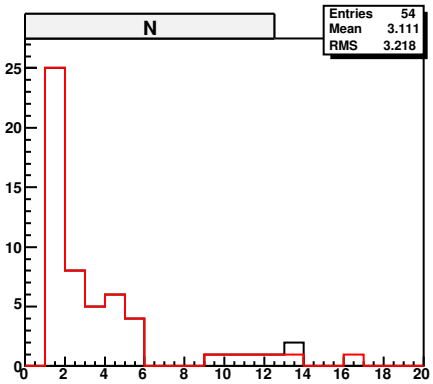


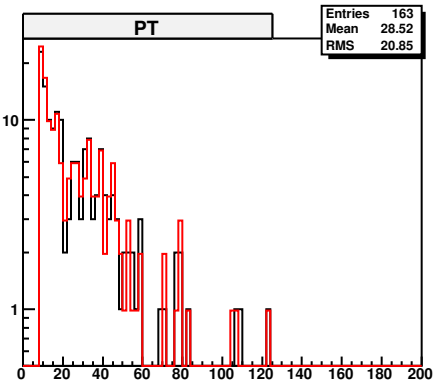


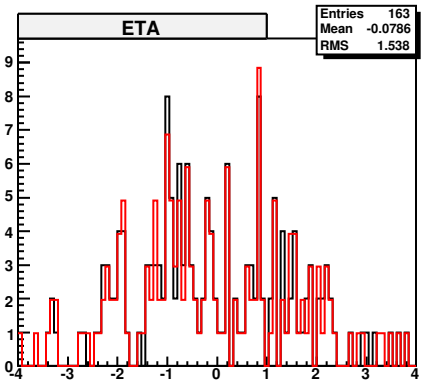


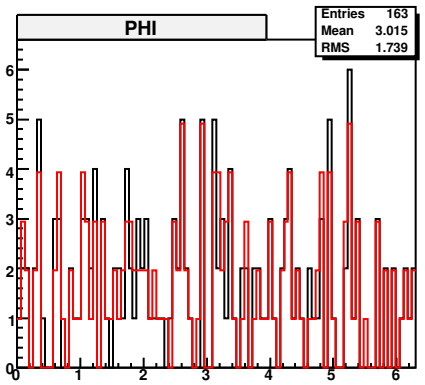


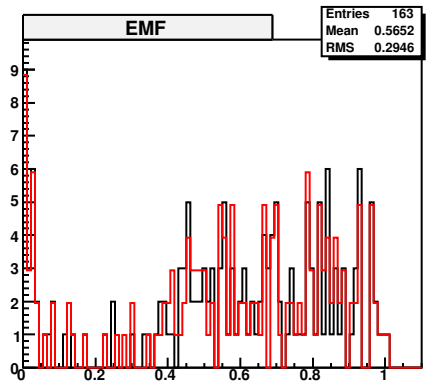
Jets (Cone R 0.7 (standard cuts, MET>30))

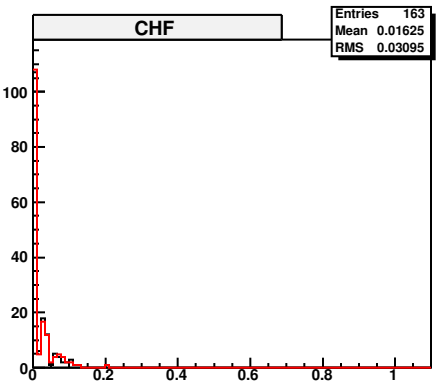


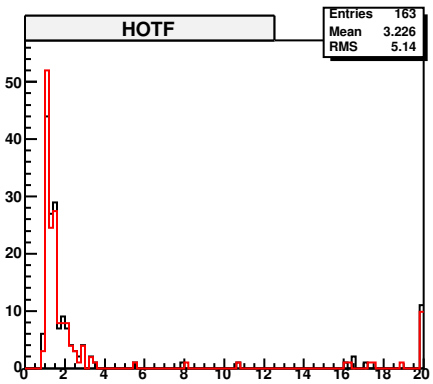


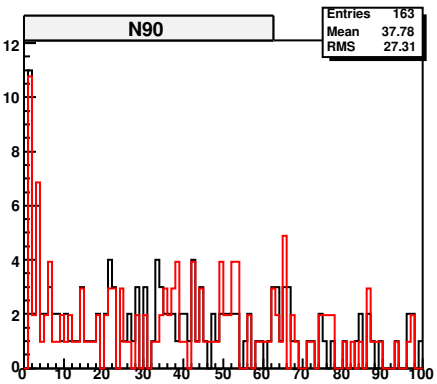


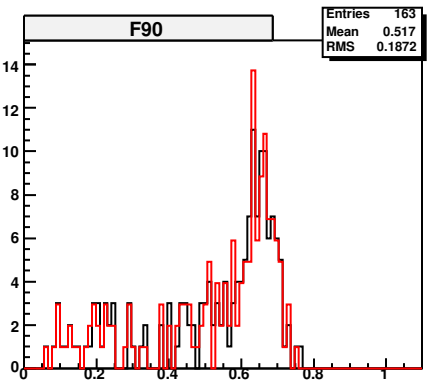


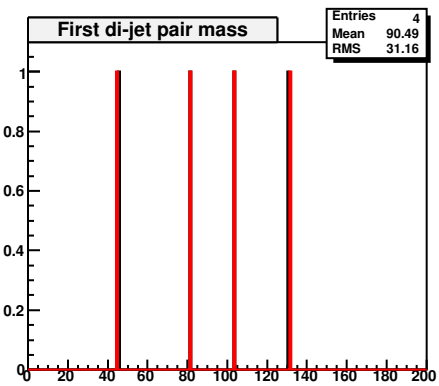


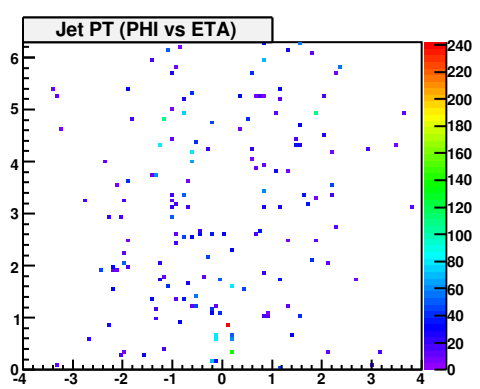




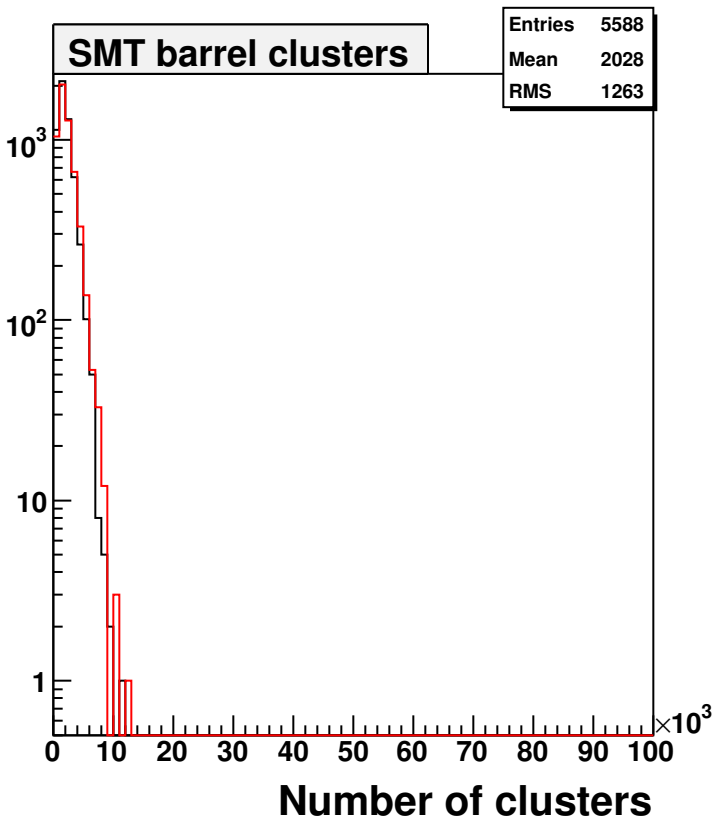


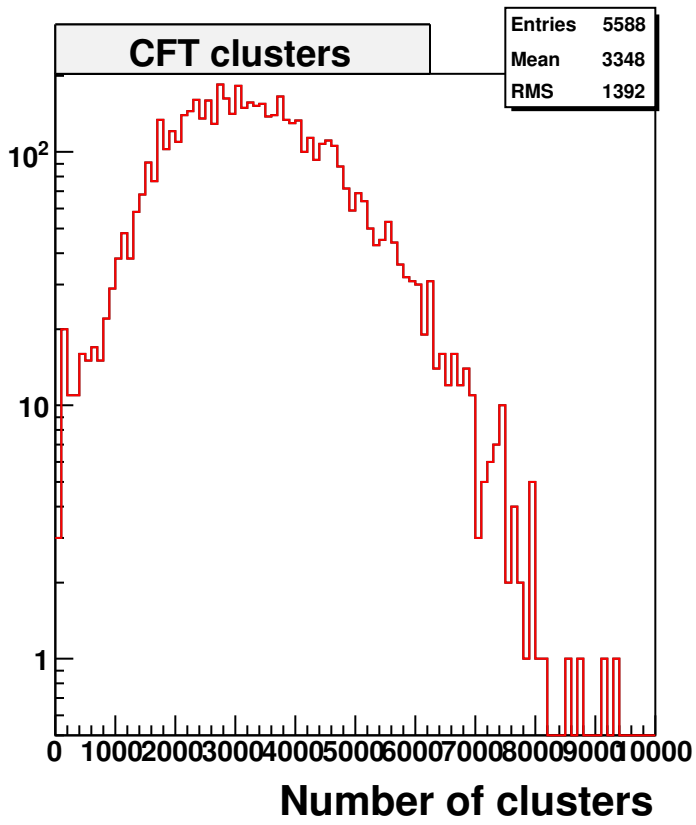


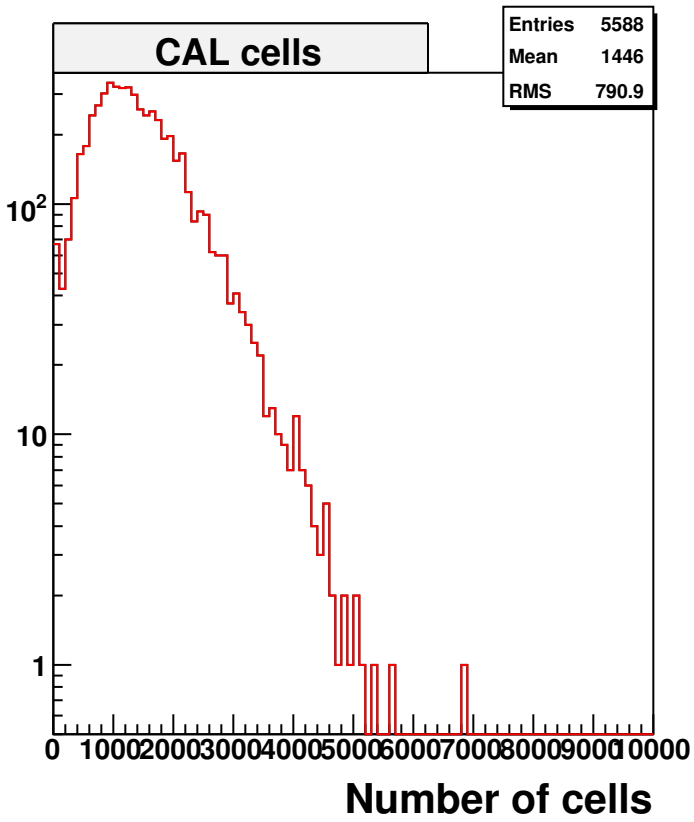


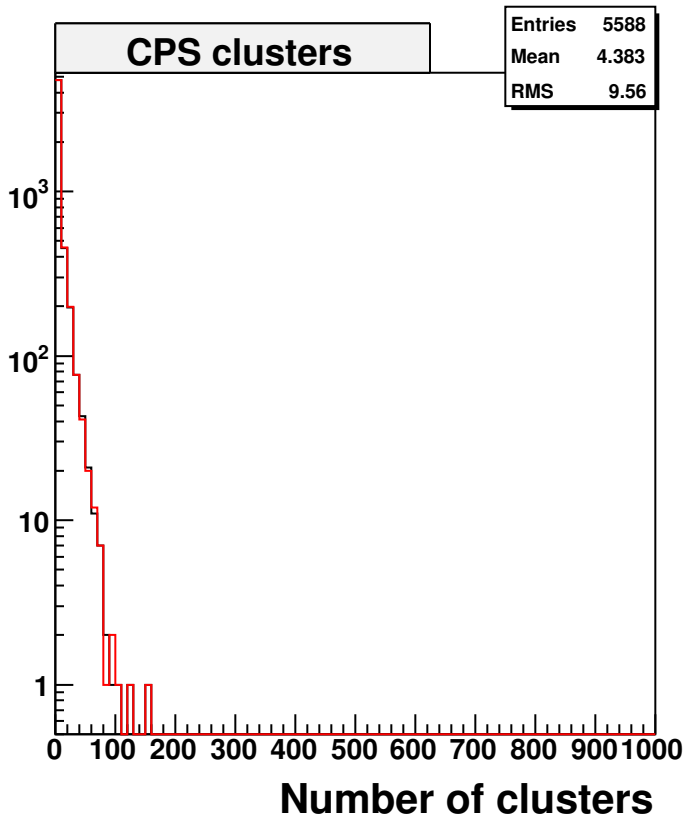


Jets (KT D 1 (standard cuts, MET>30))

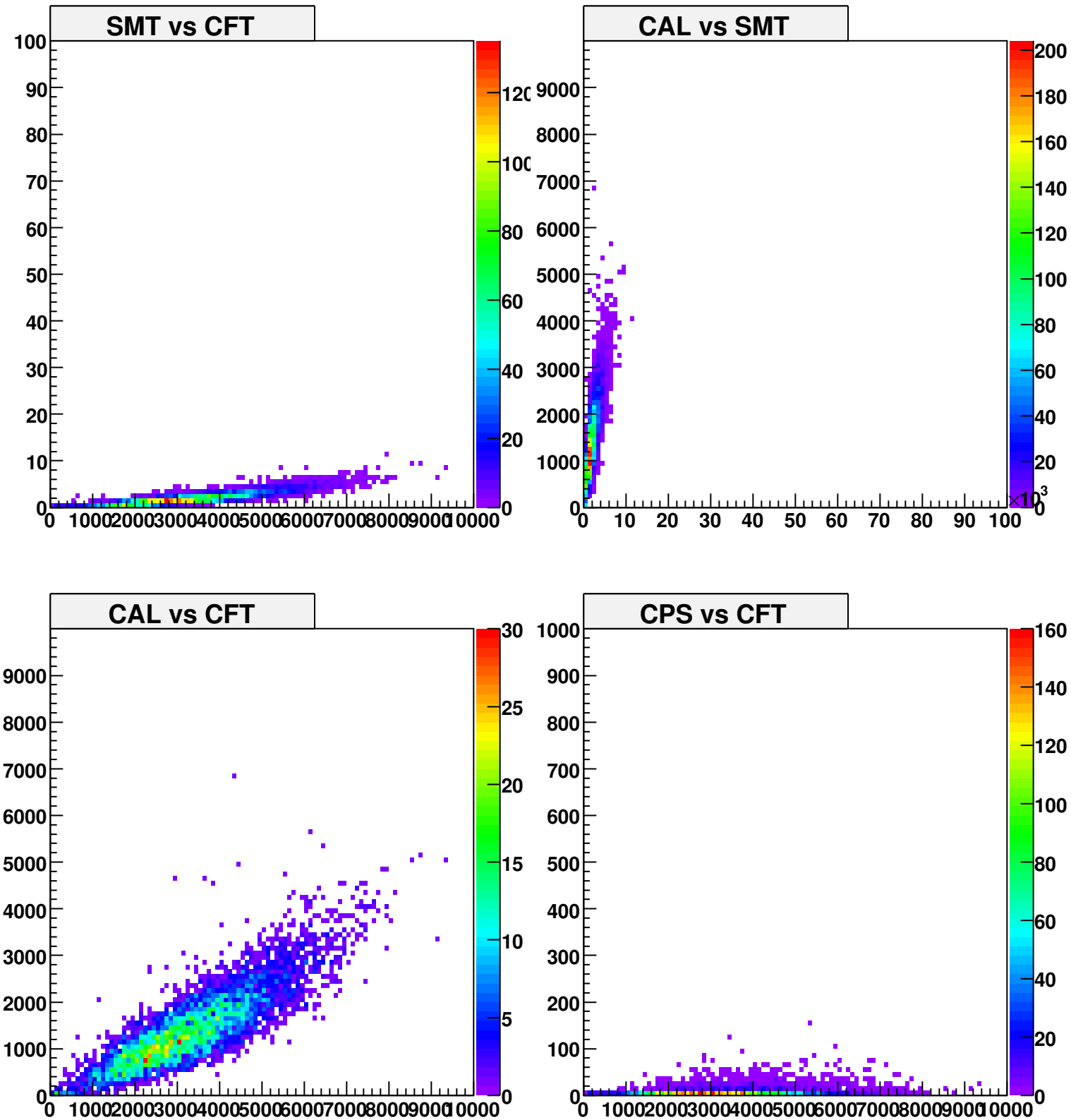


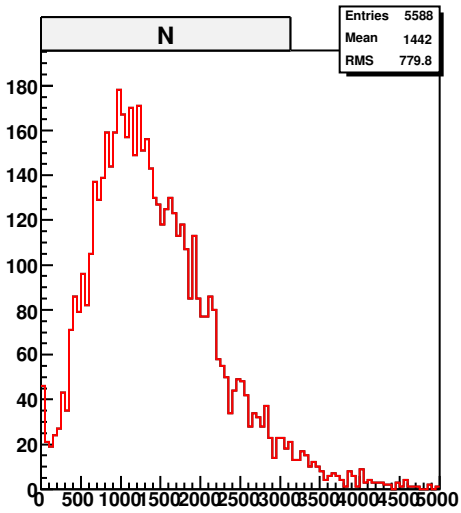


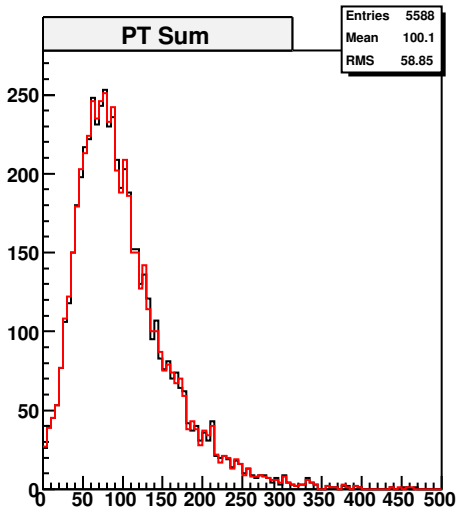


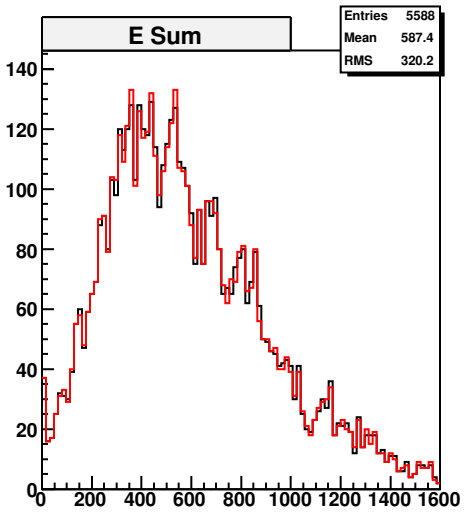


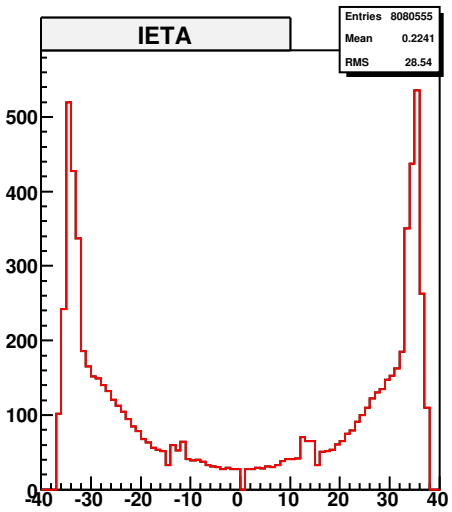
Detector Occupancy (Detector)

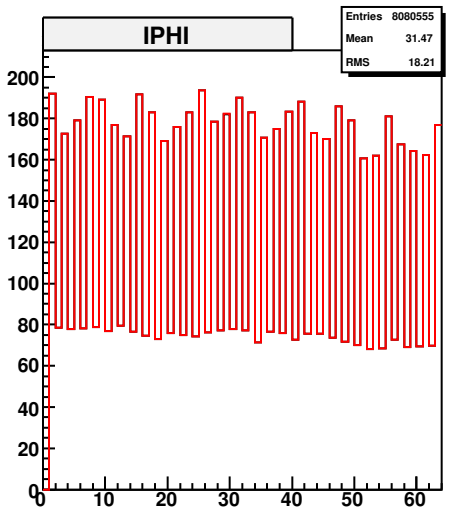

SMT vs CFT
CAL vs SMT
CAL vs CFT
CPS vs CFT
Detector Occupancy (Detector)

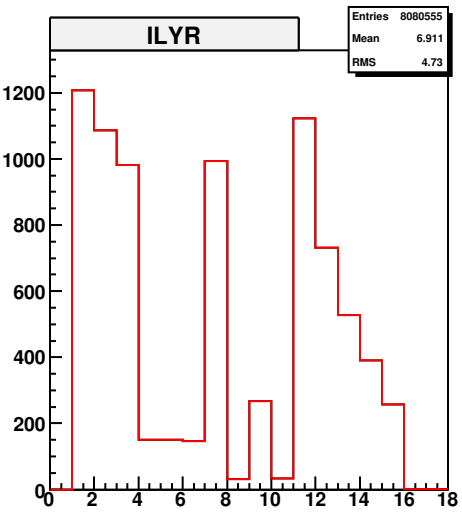


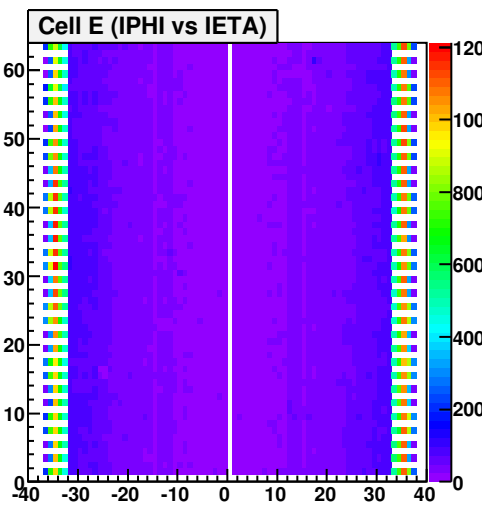


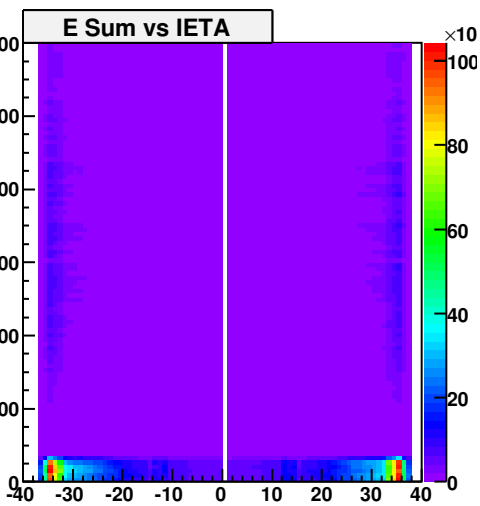


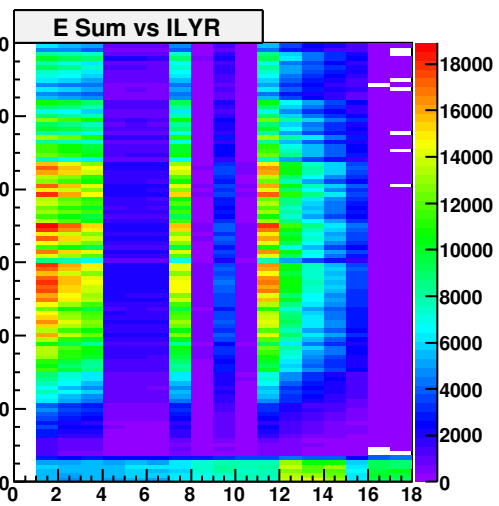




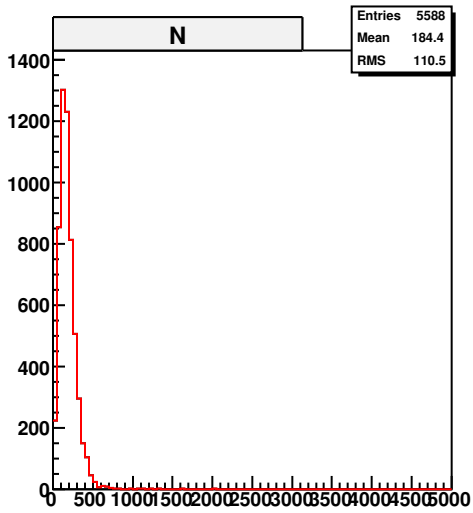


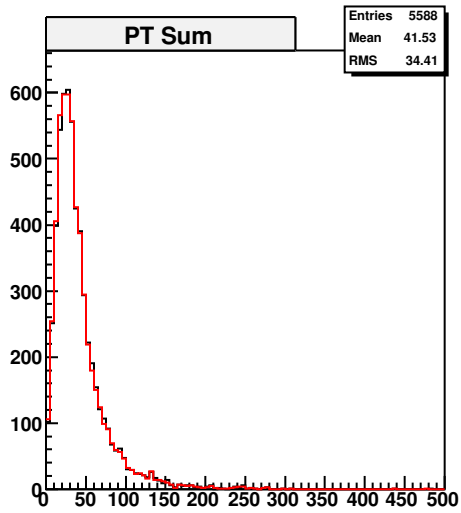


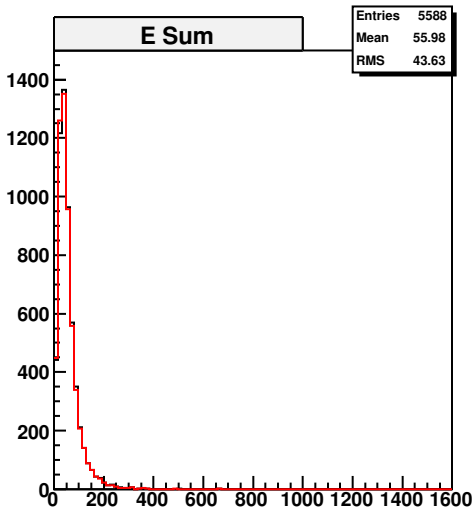


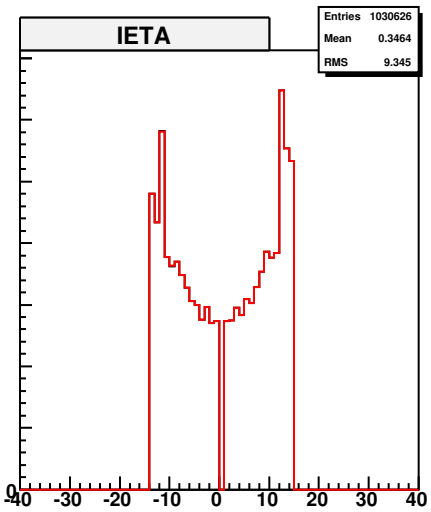


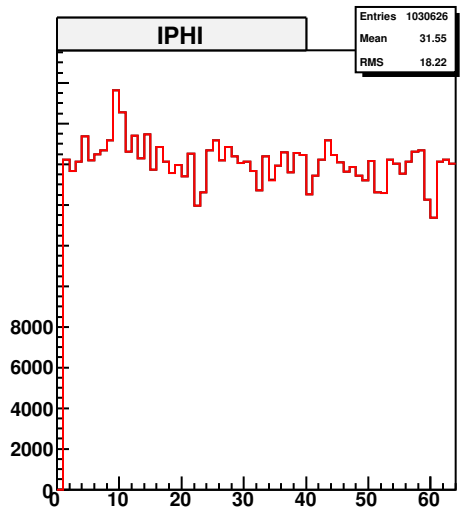
Calorimeter (All cells)

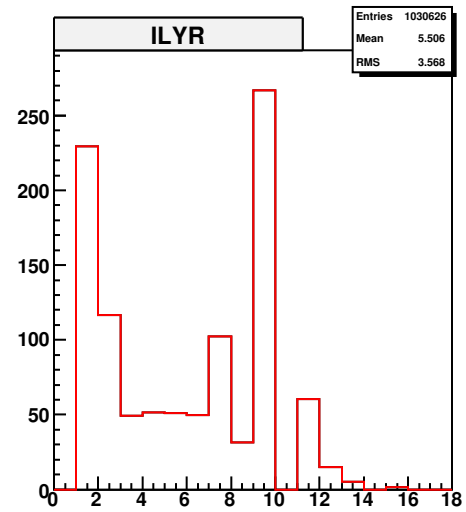


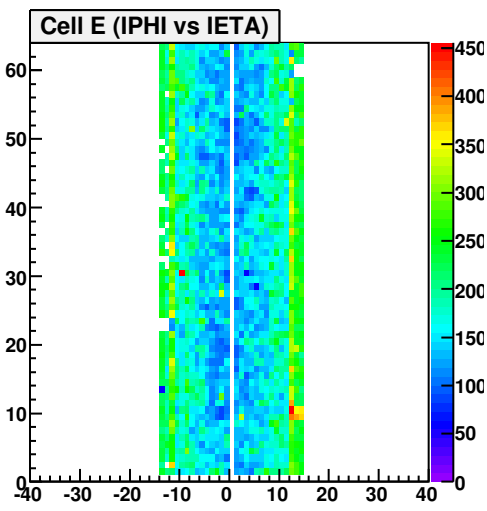


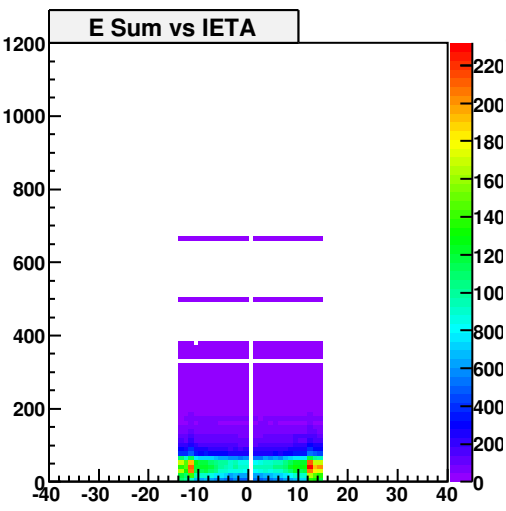


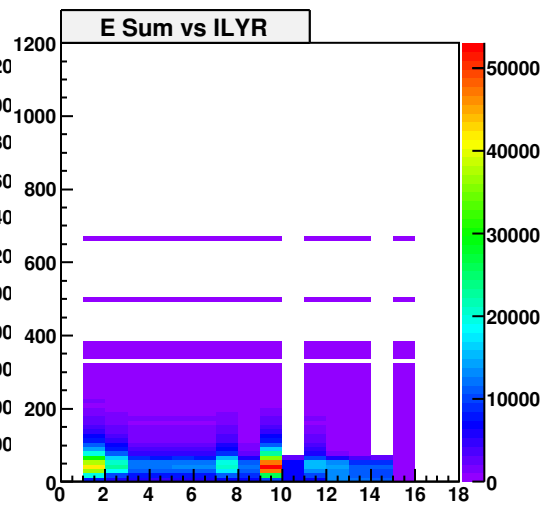




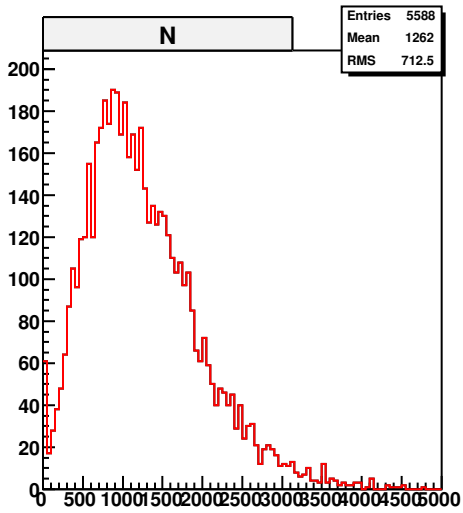


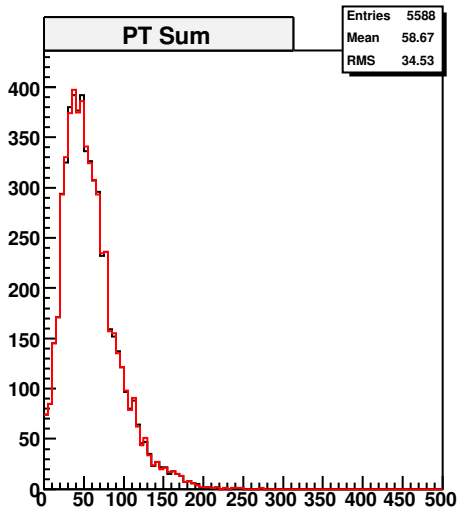


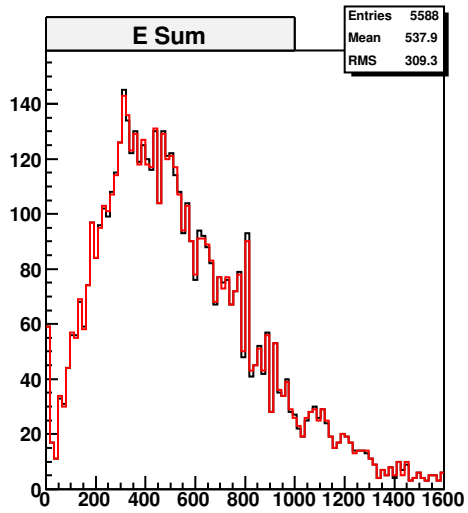


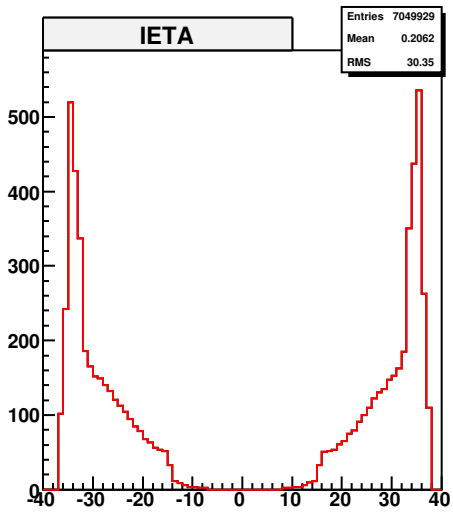


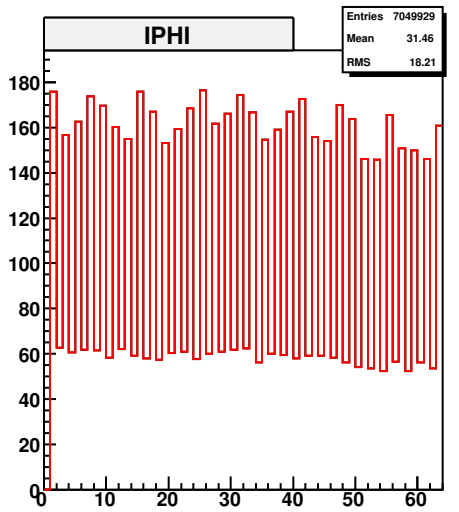
Calorimeter (All CC cells)

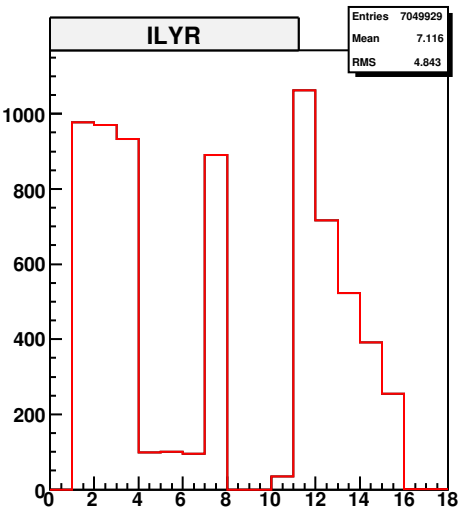


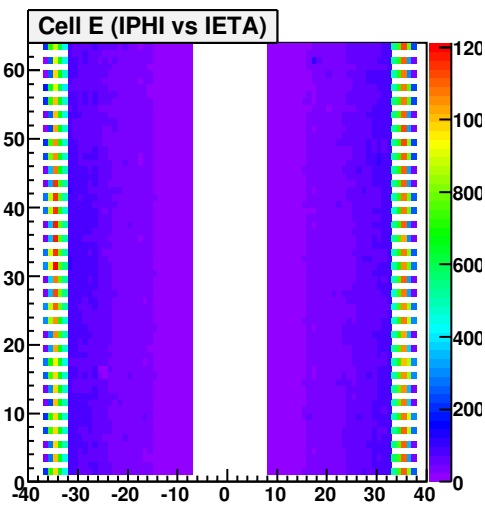


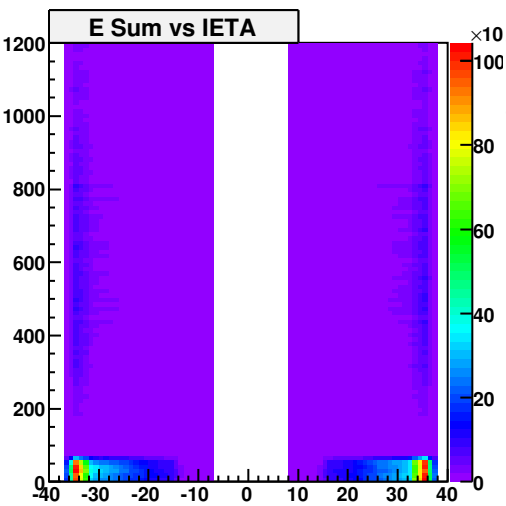


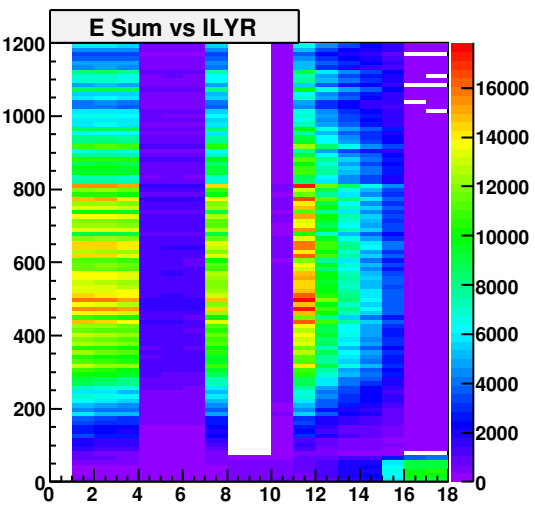




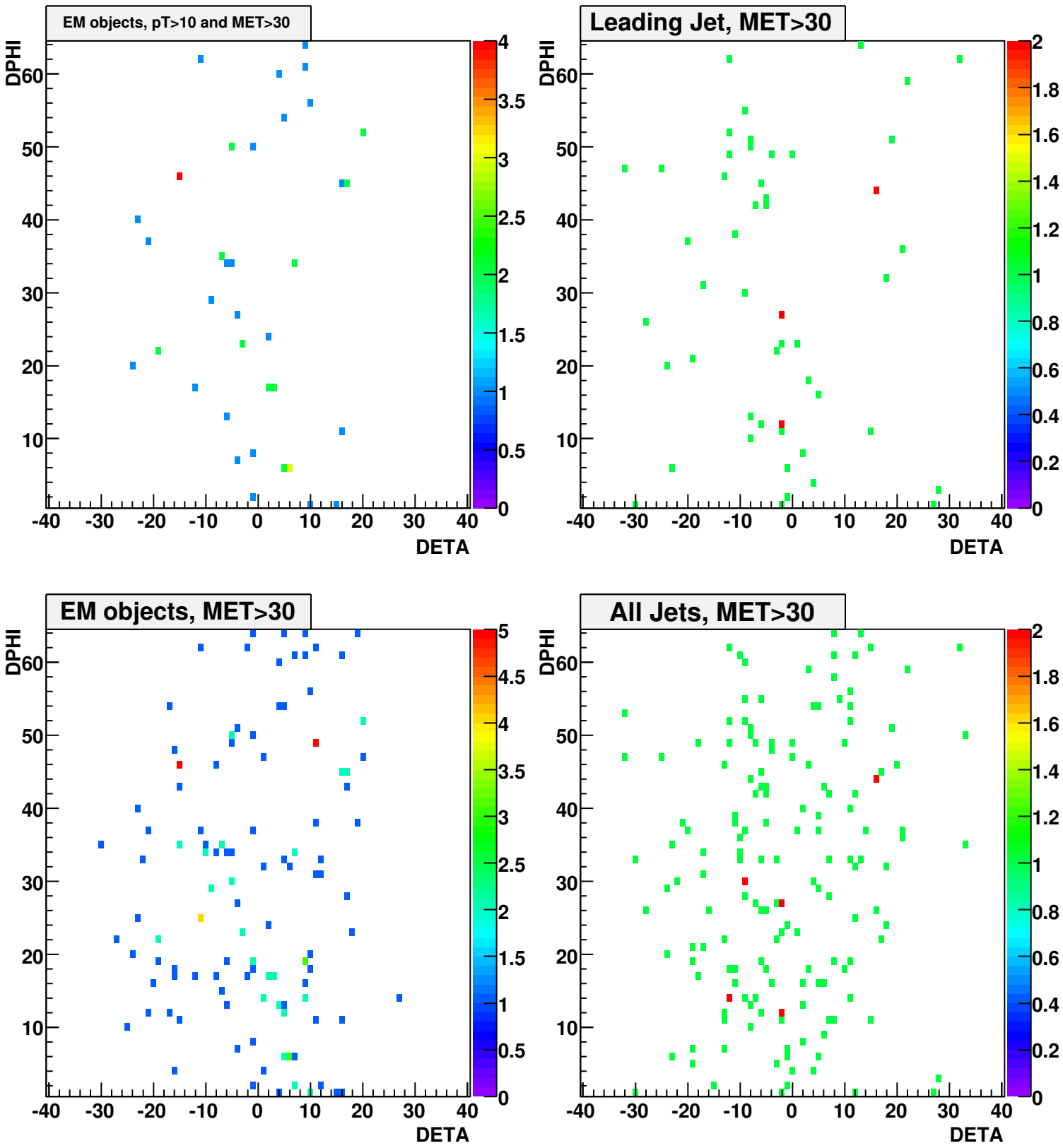




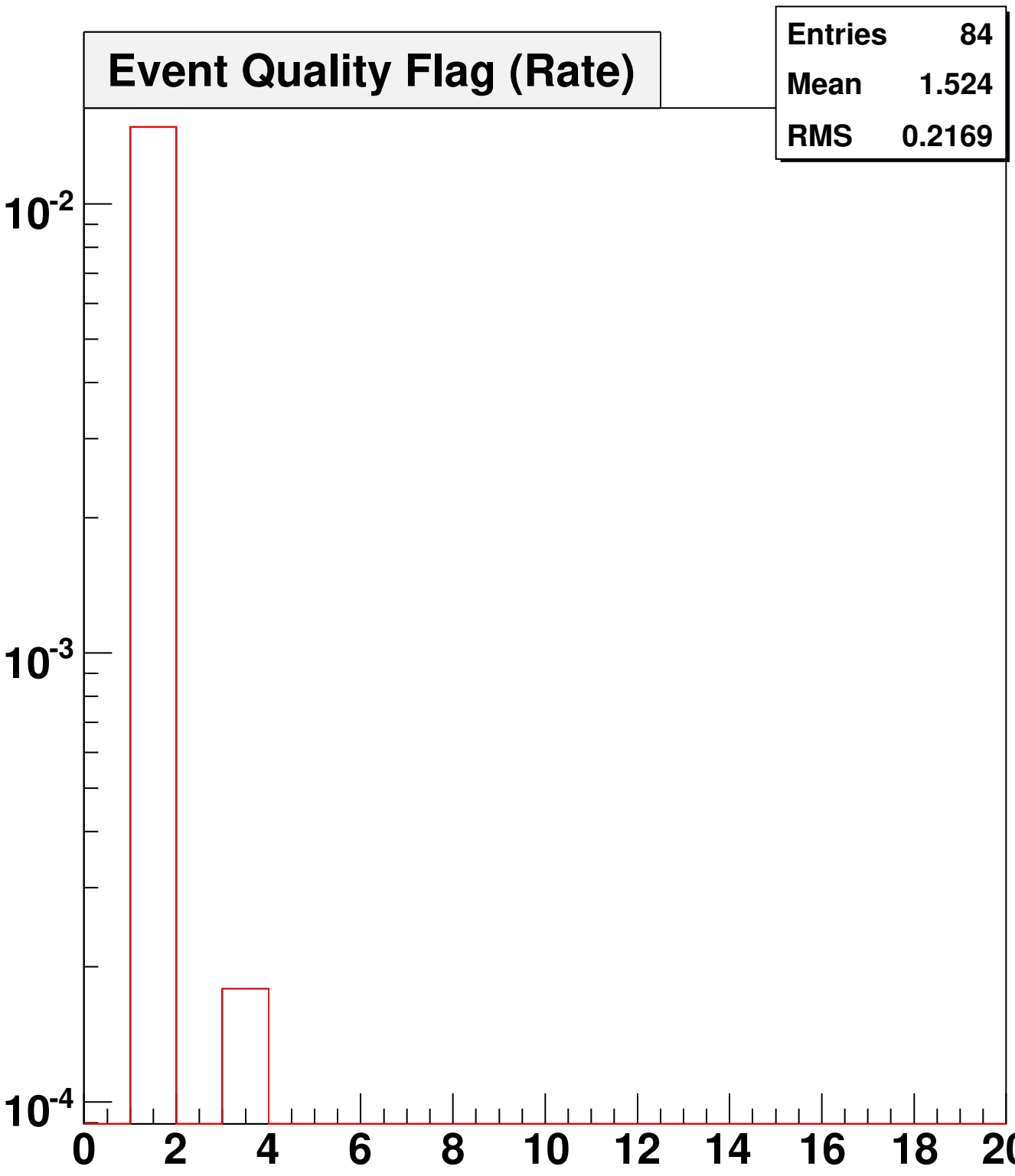


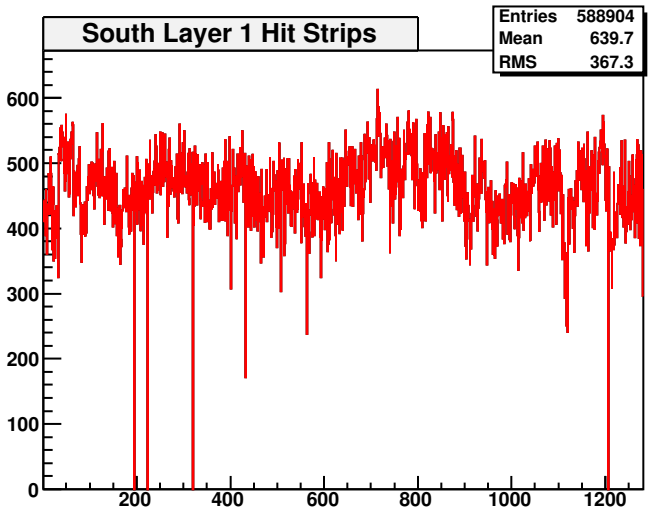


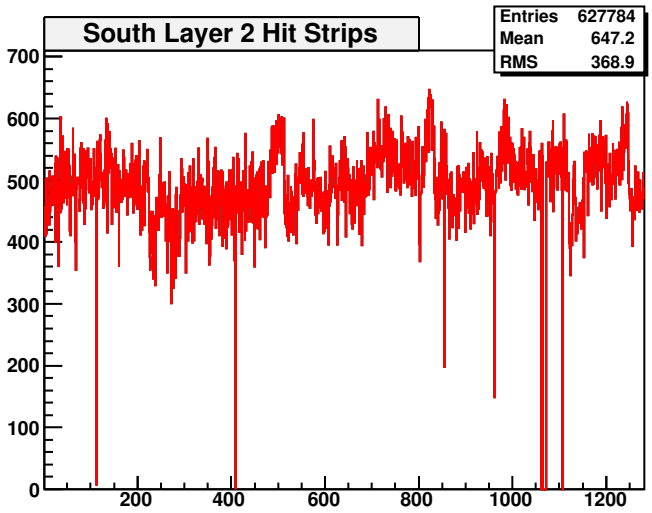
Calorimeter (All EC cells)

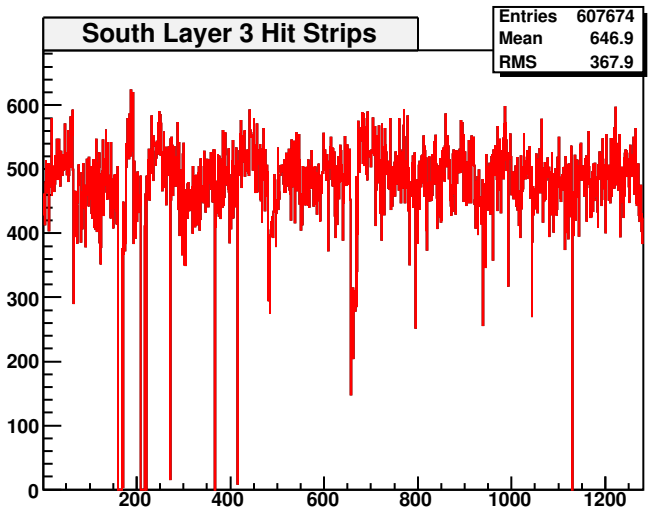


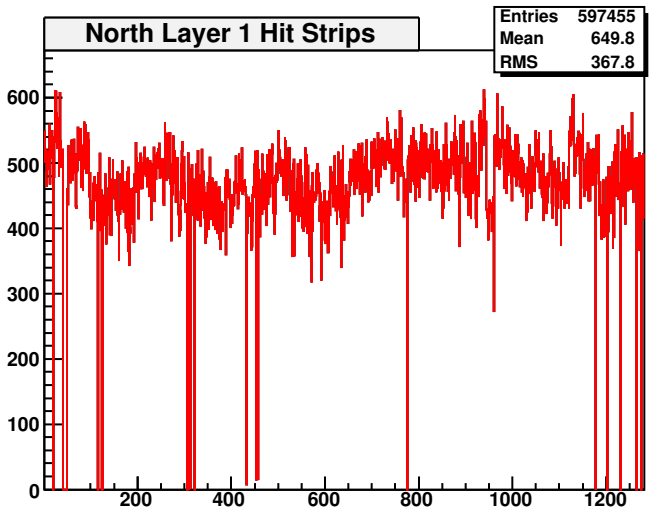
Cal Objects with MET>30 (All cells)

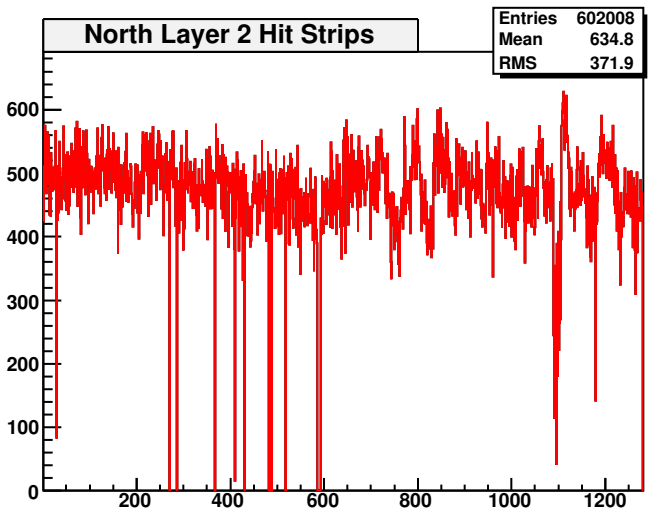

Event Quality Flag (Rate)
Entries 84
Mean 1.524
RMS 0.2169
10-2
10-3
10-4
0
2
4
6
8
10
12
14
16
18
20
Calorimeter Event Quality (All cells)

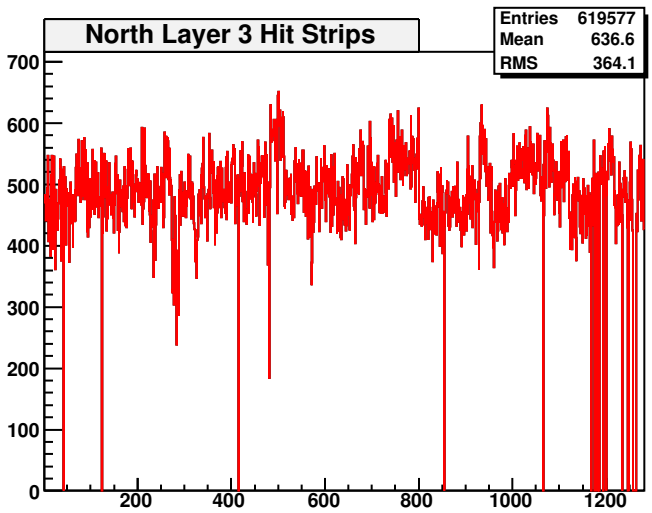




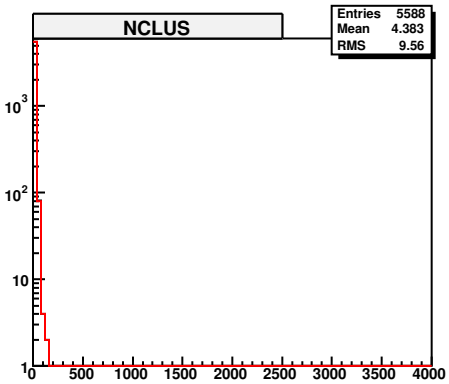


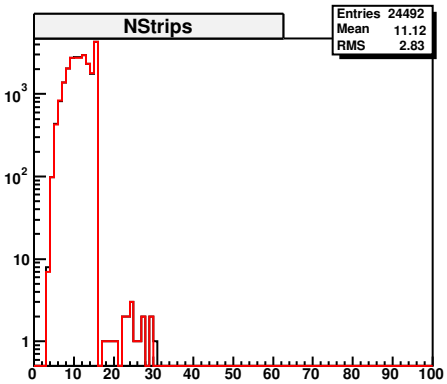


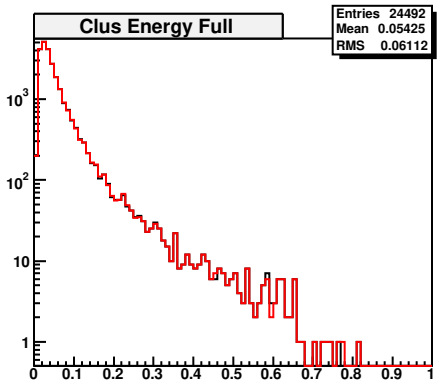


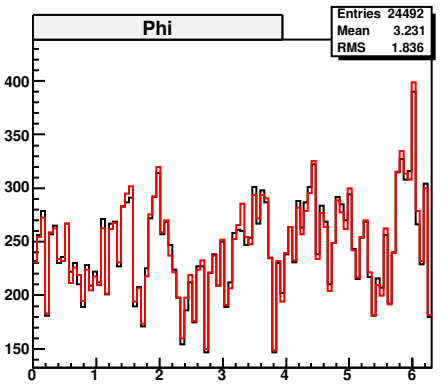


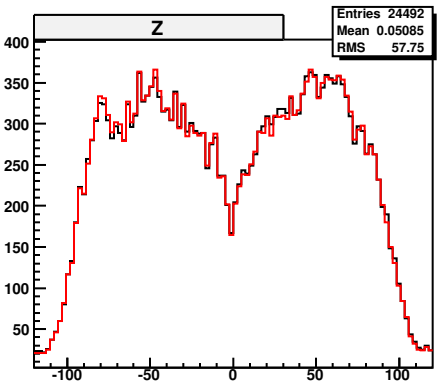
CPS Hit Strips (All Clusters)

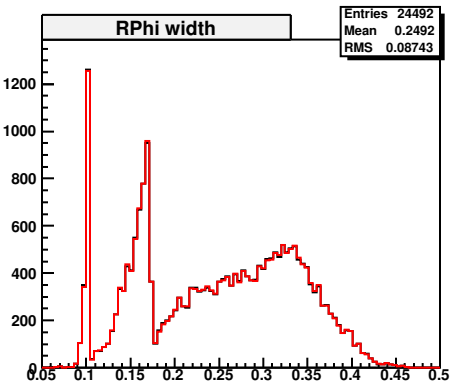


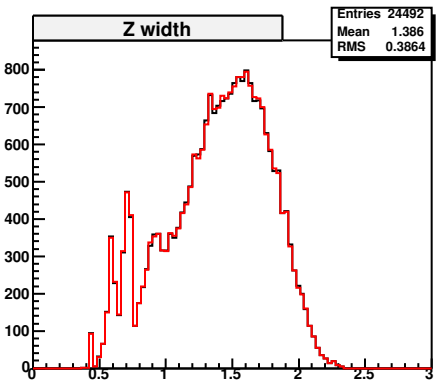


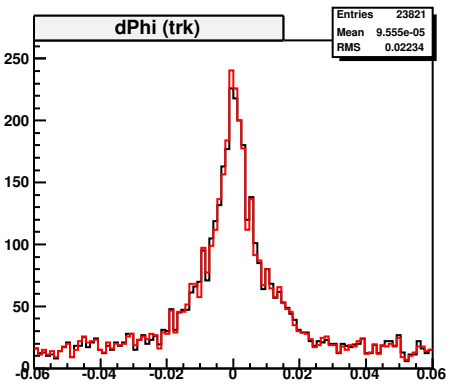


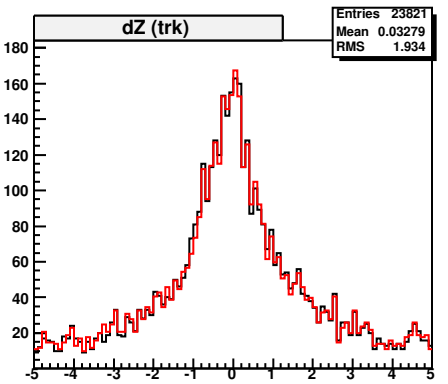


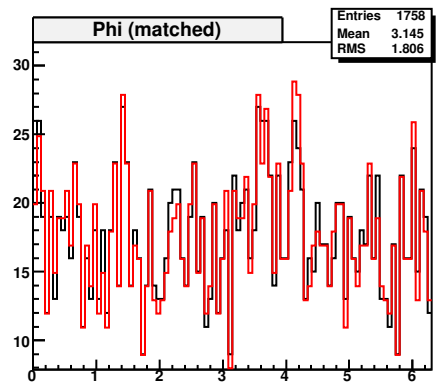


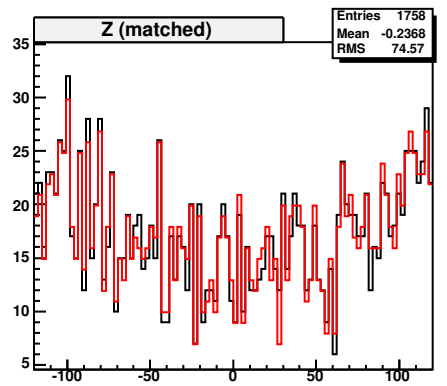




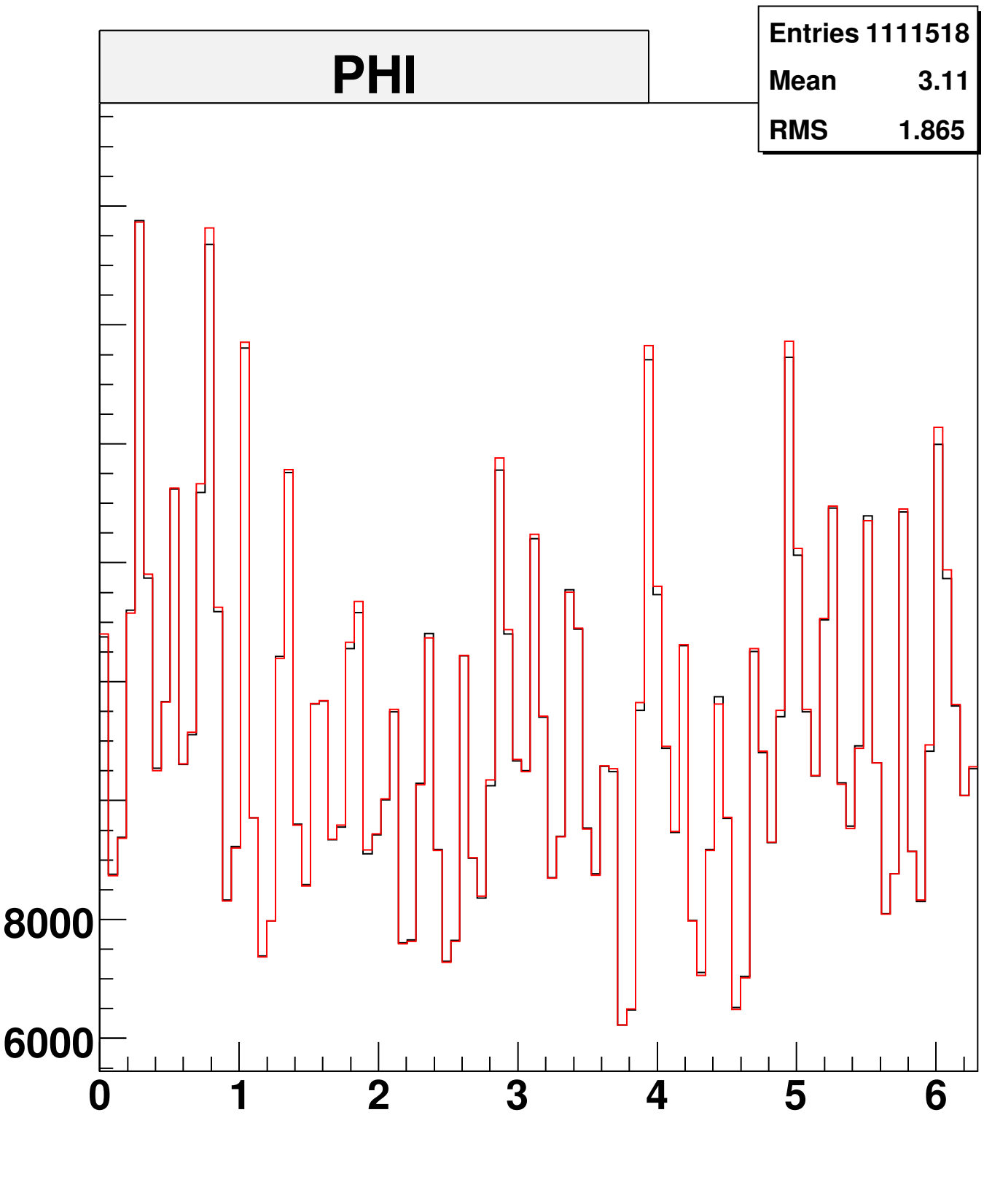


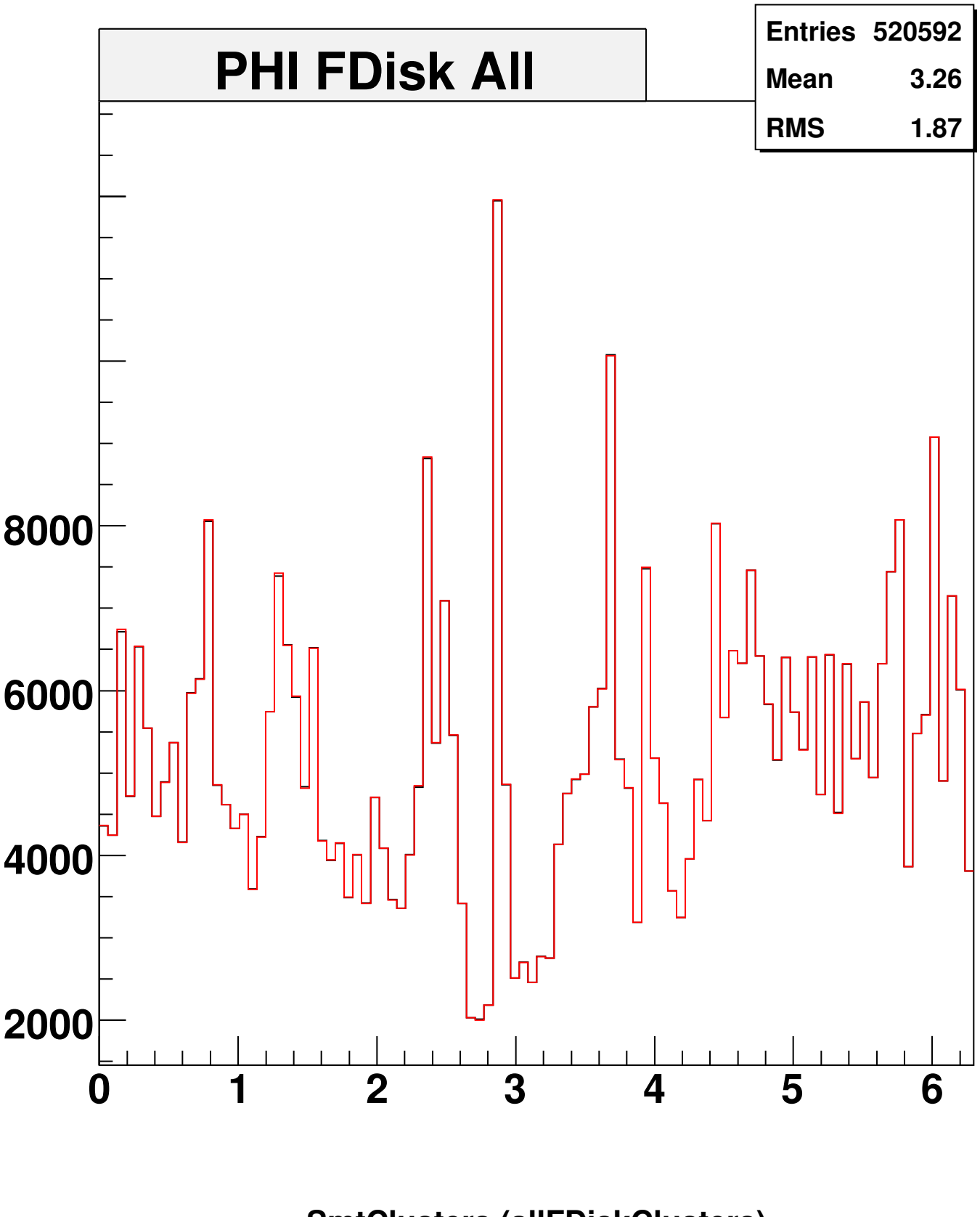


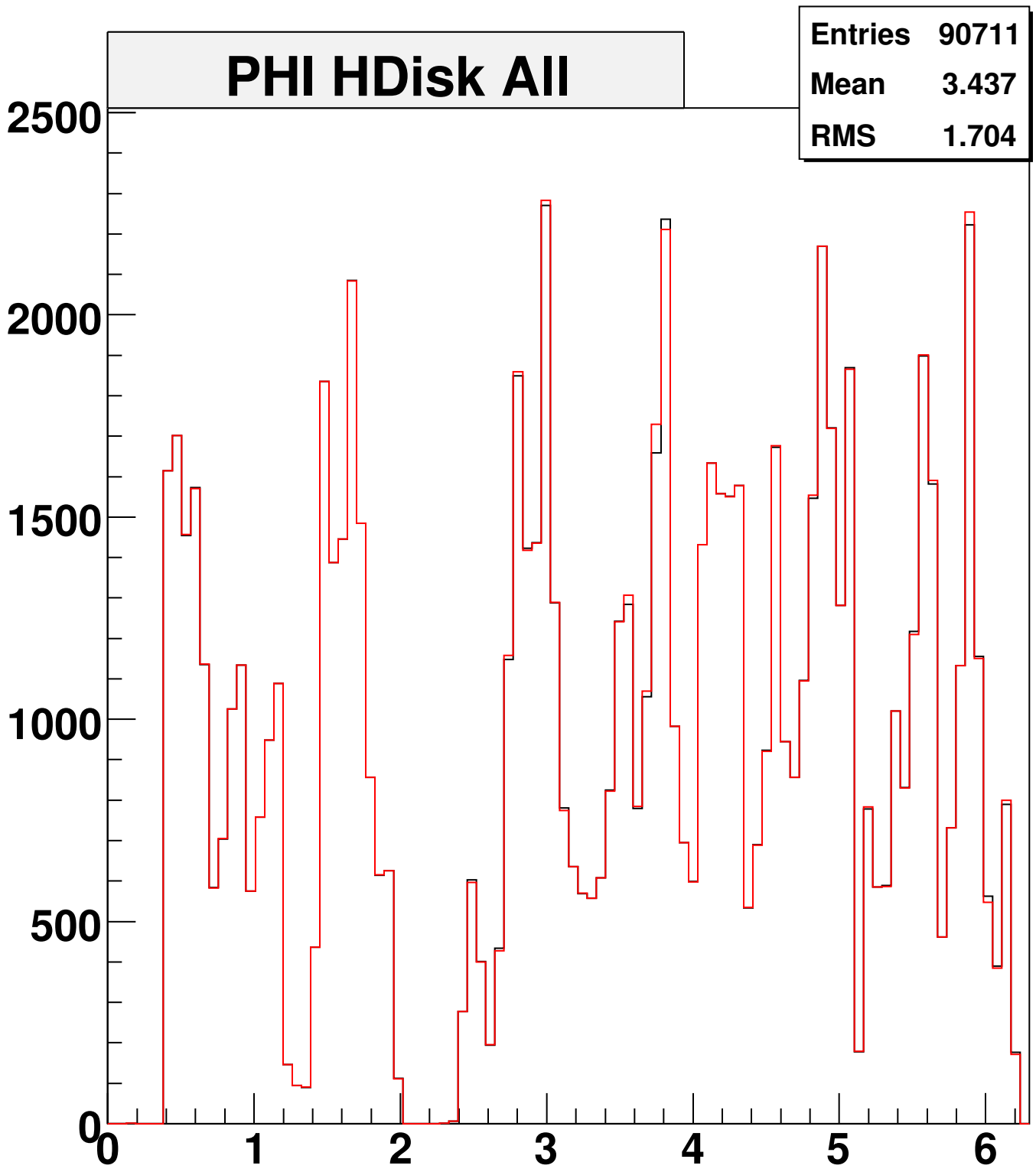




CPS Clusters (All Clusters)


PHI
Entries 1111518
Mean 3.11
RMS 1.865
8000
6000
0
1
2
3
4
5
6
SmtClusters (allBarClusters)


PHI FDisk All
Entries 520592
Mean 3.26
RMS 1.87
8000
6000
4000
2000
0
1
2
3
4
5
6
SmtClusters (allFDiskClusters)


PHI HDisk All
Entries 90711
Mean 3.437
RMS 1.704
2500
2000
1500
1000
500
0
0
1
2
3
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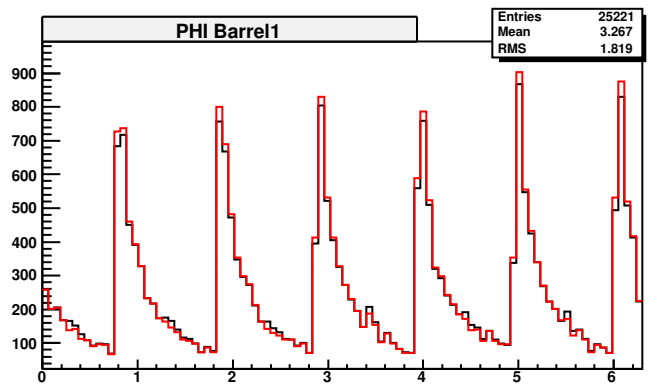
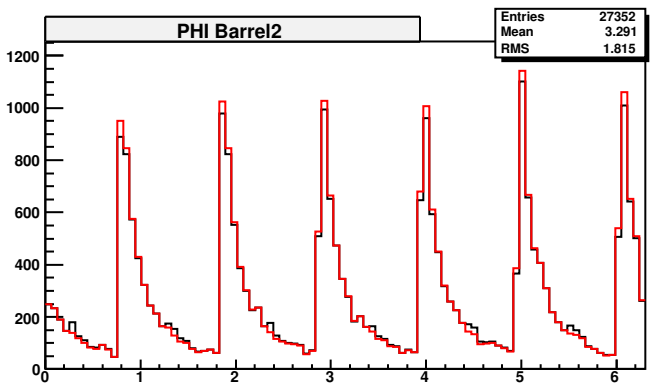
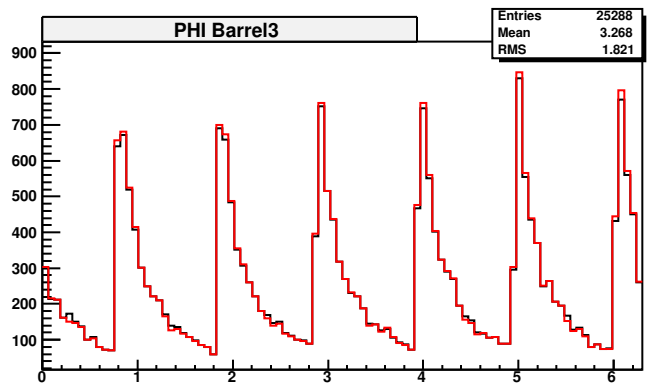
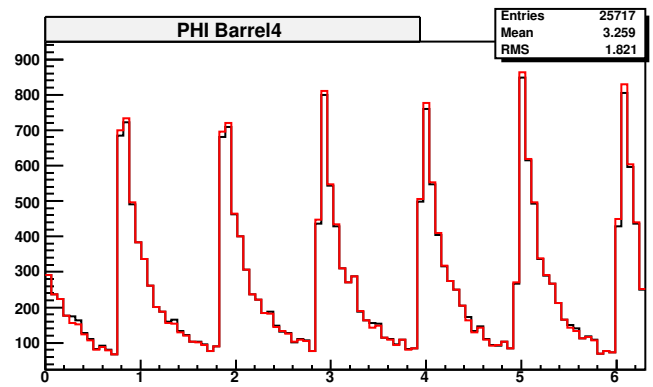
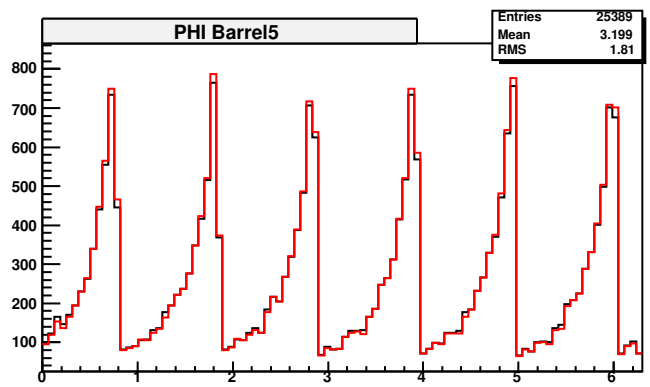
5
6
SmtClusters (allHDiskClusters)

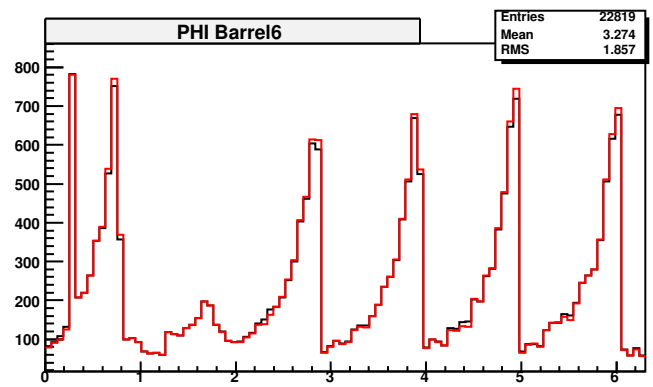


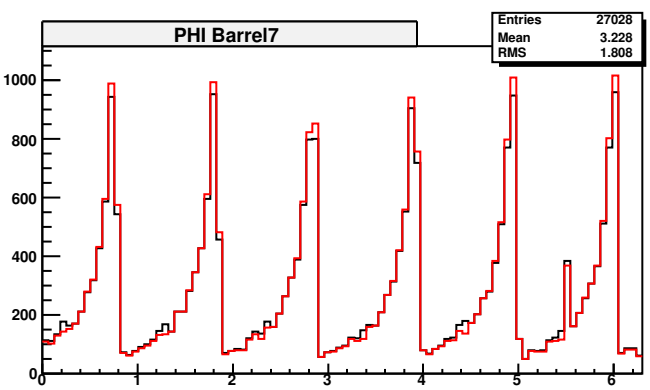


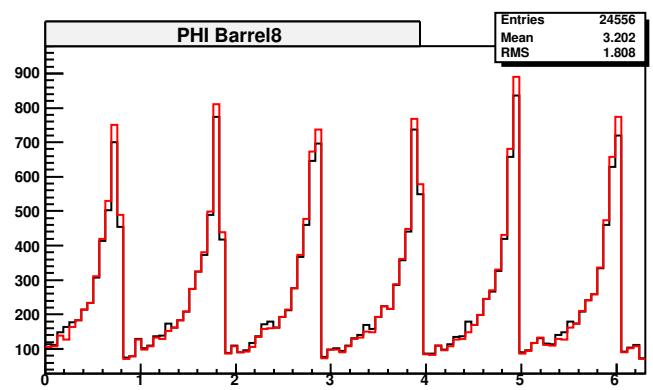




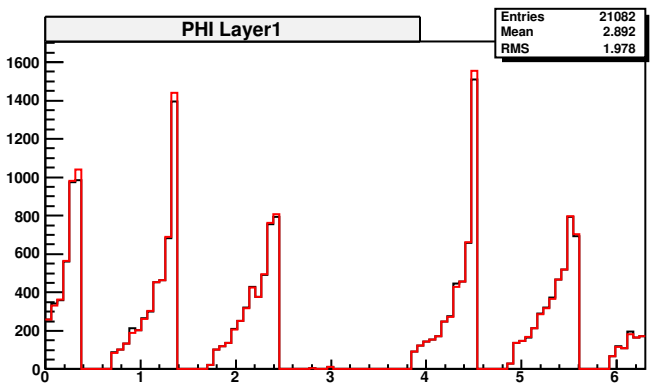


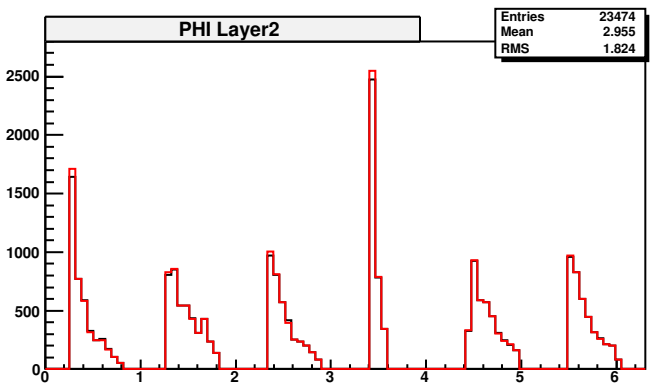


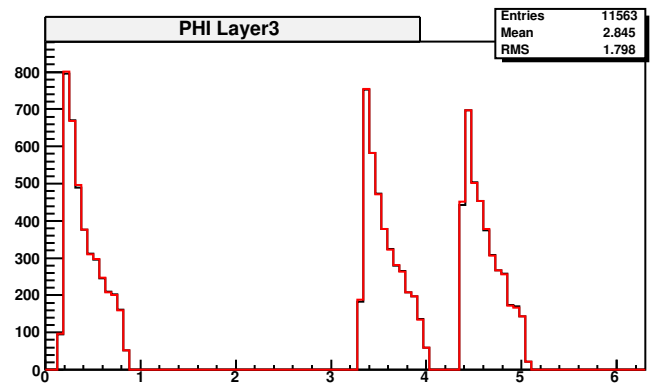


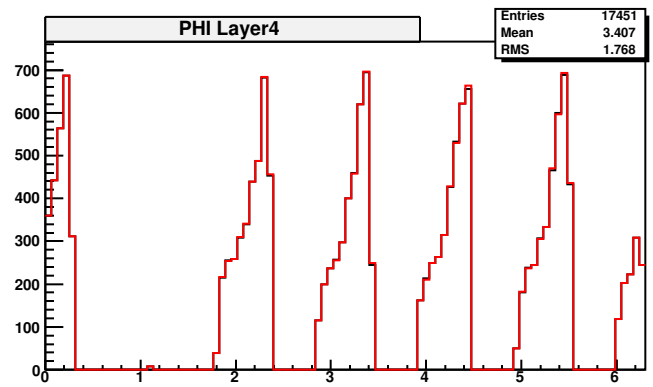


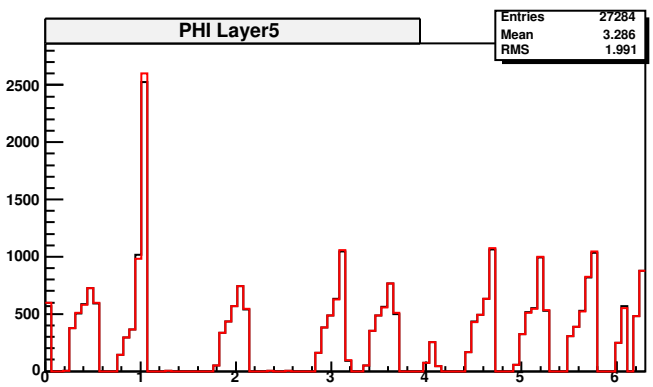
SmtClusters (ClustrLayer0)

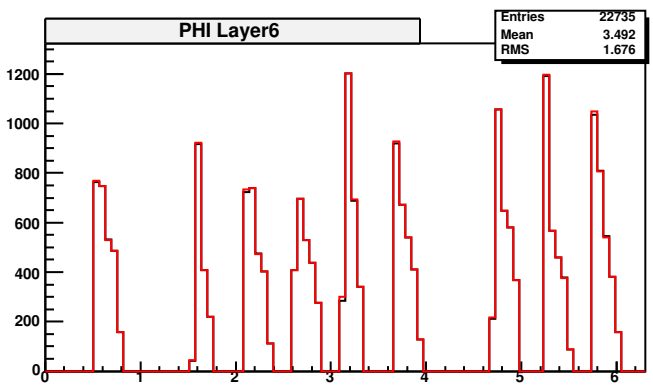


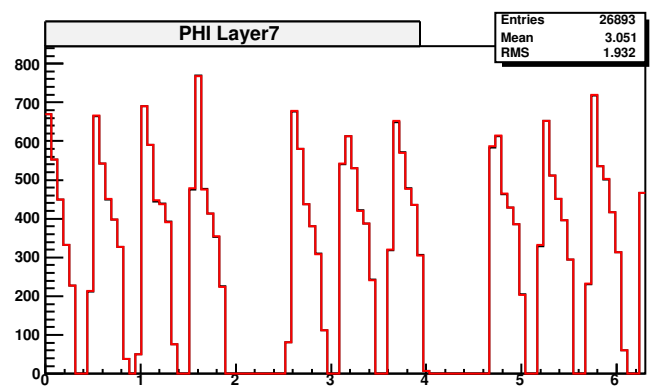


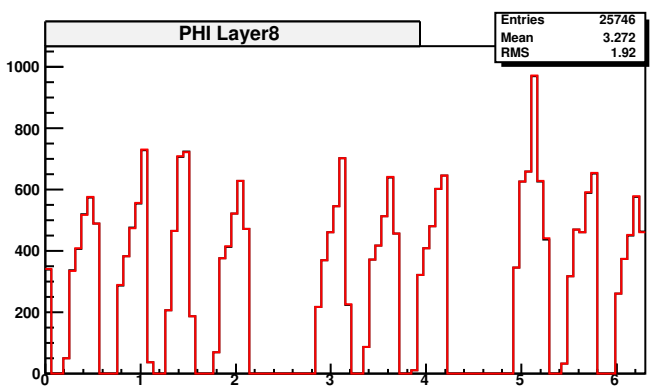




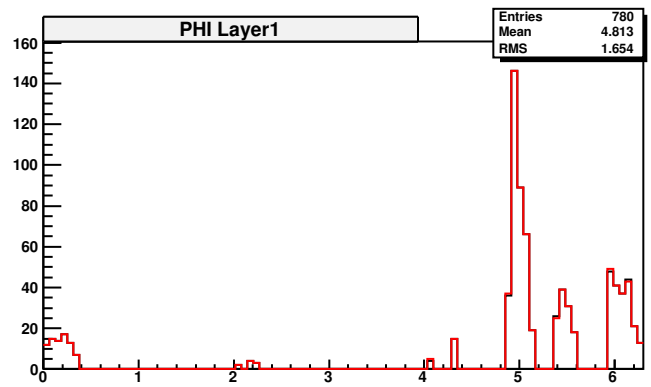


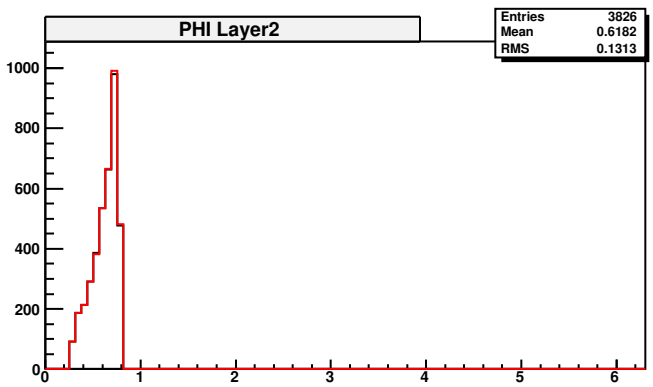


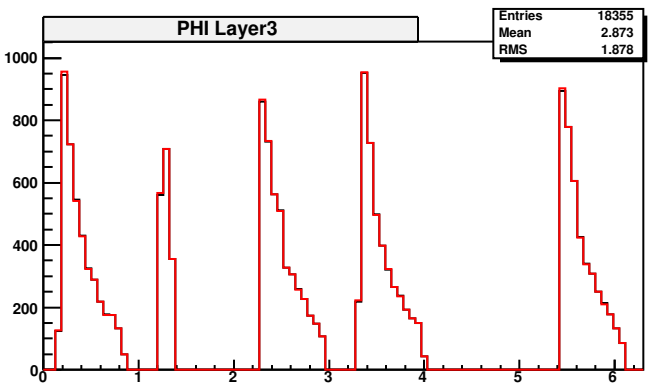


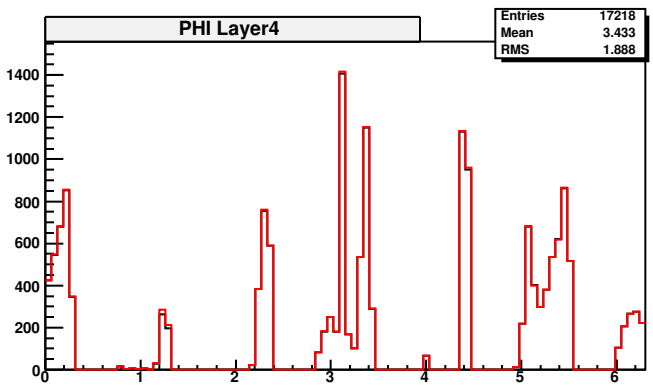


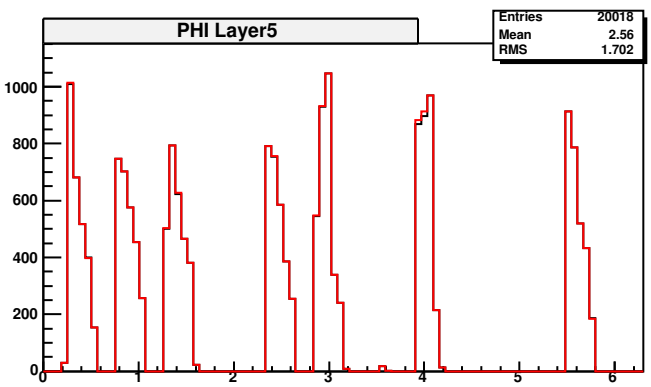
SmtClusters (ClustrBar1)

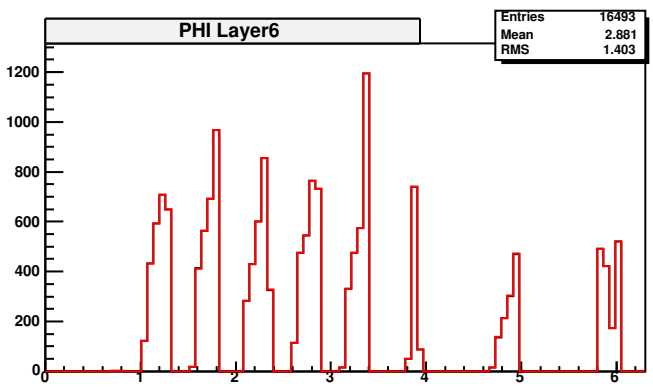


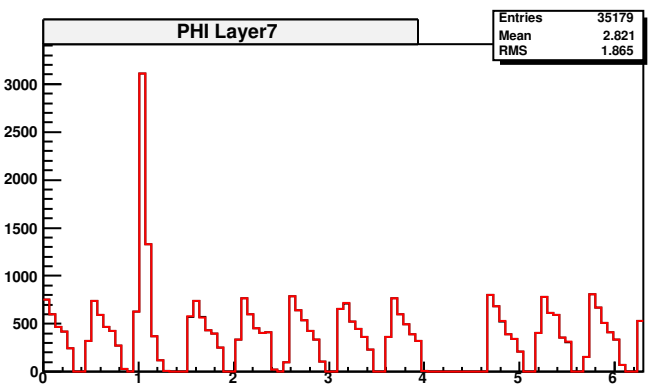


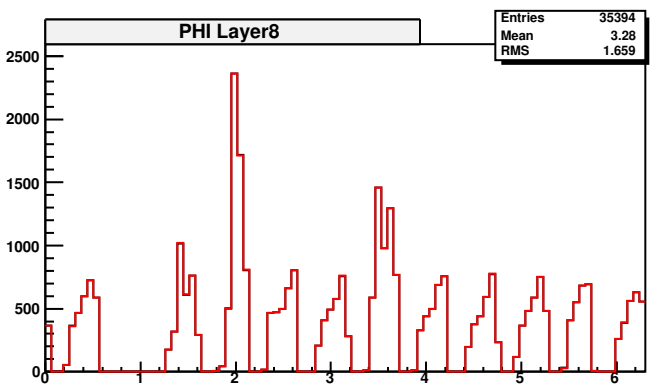




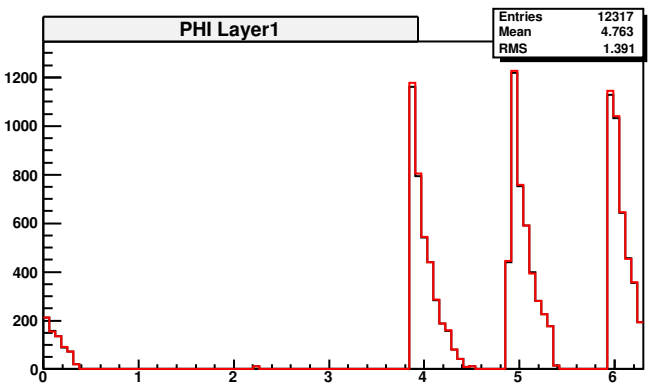


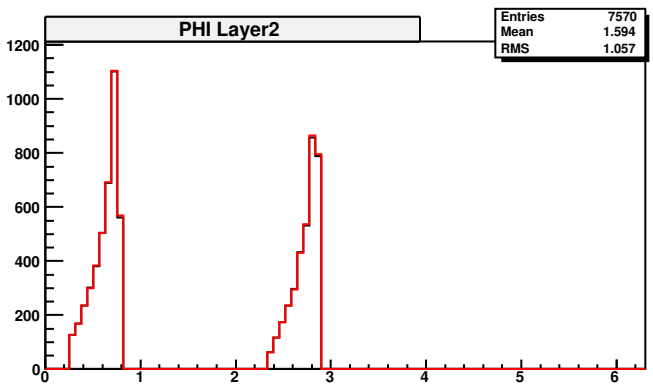


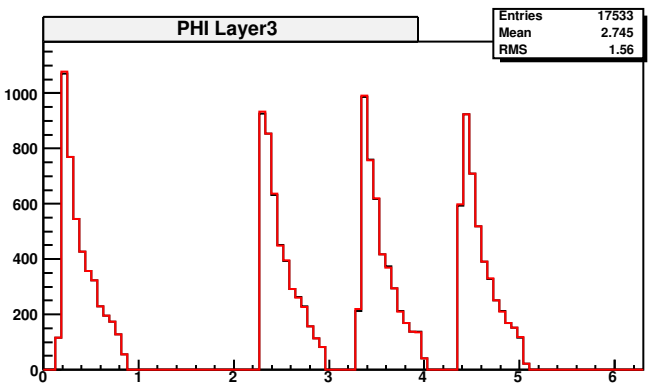


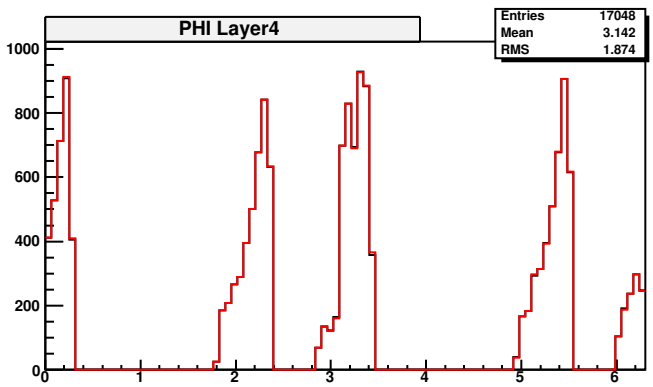


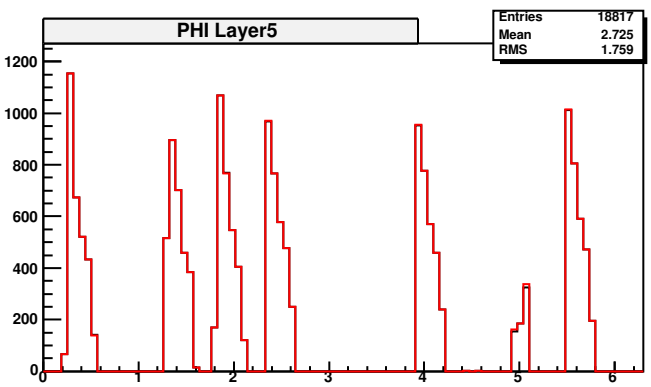
SmtClusters (ClustrBar2)

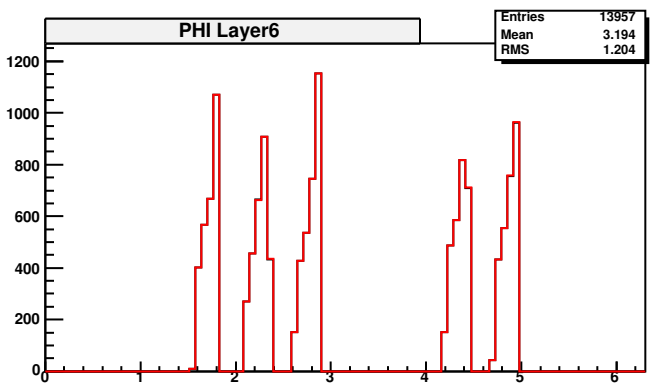


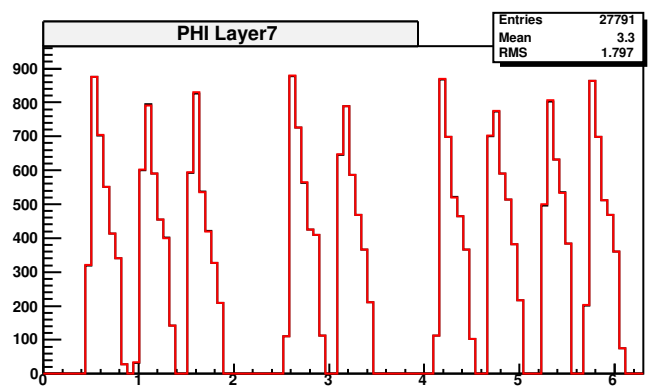


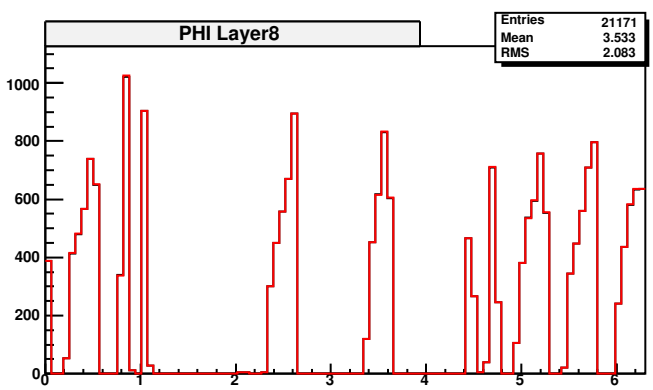




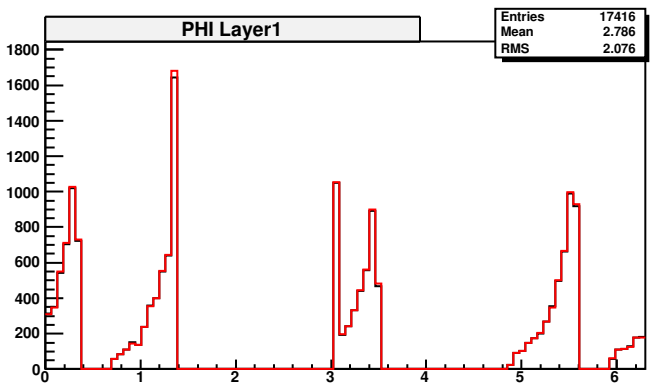


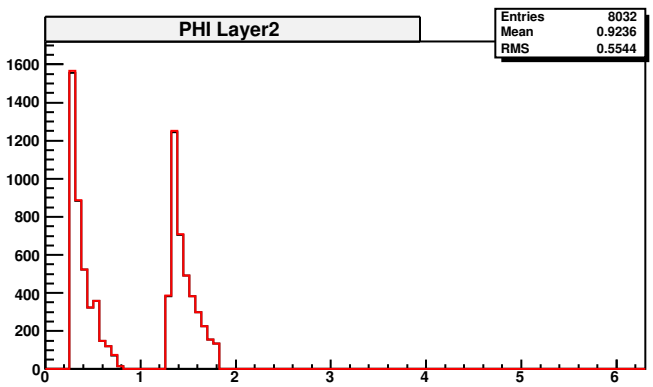


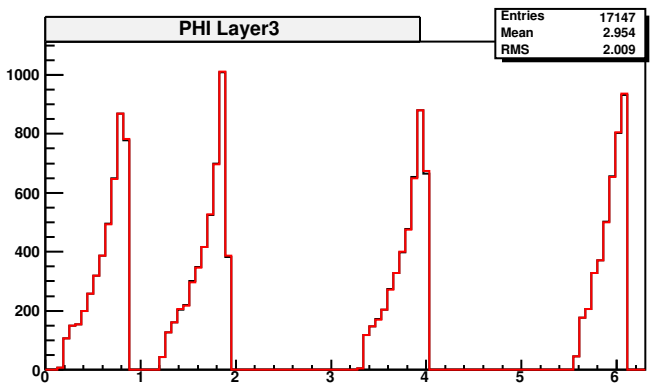


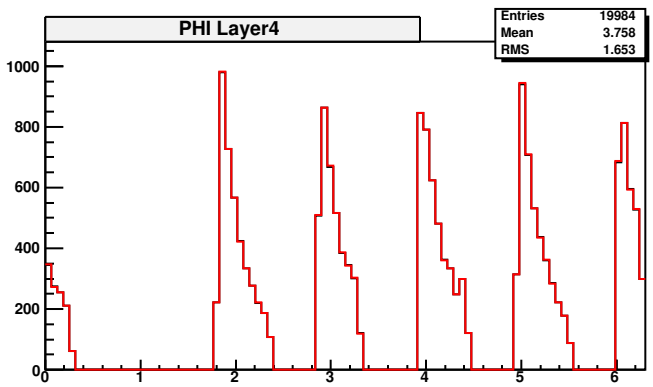


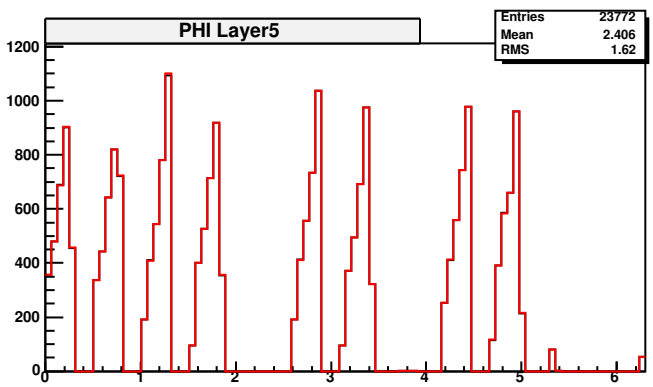
SmtClusters (ClustrBar3)

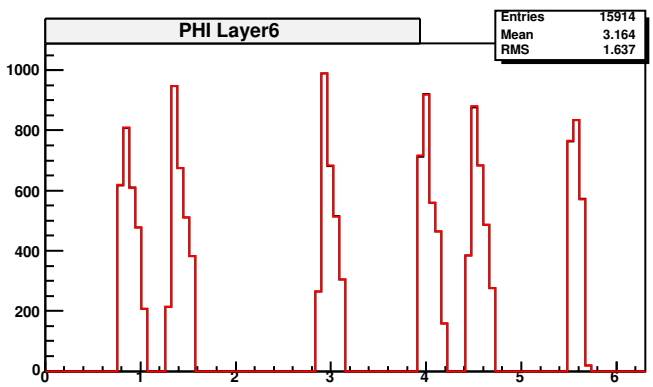


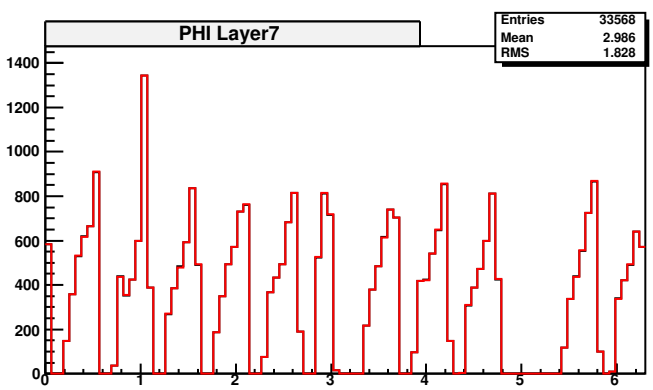


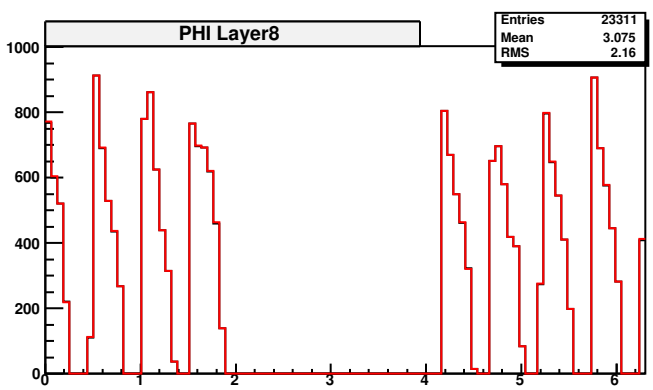




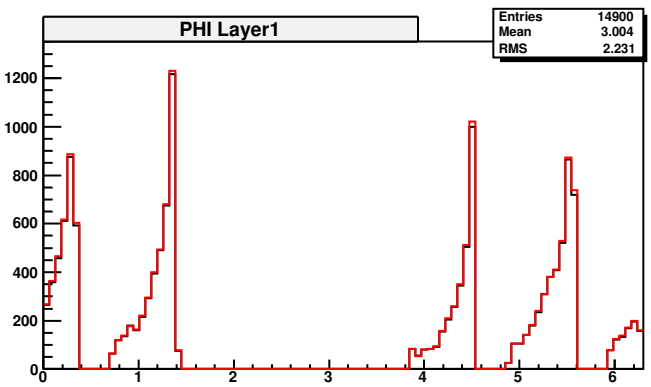


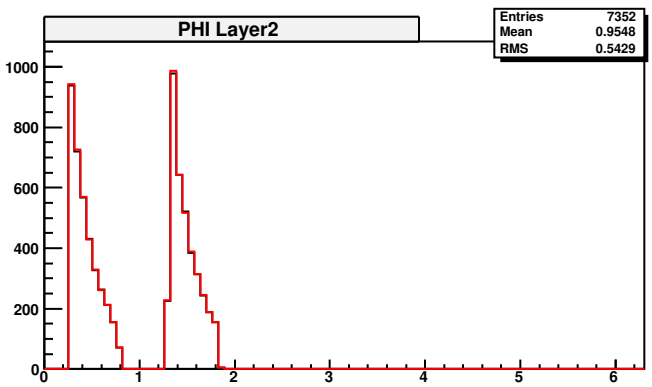


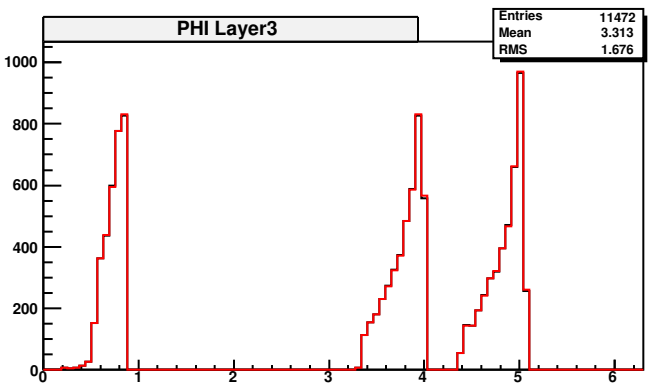


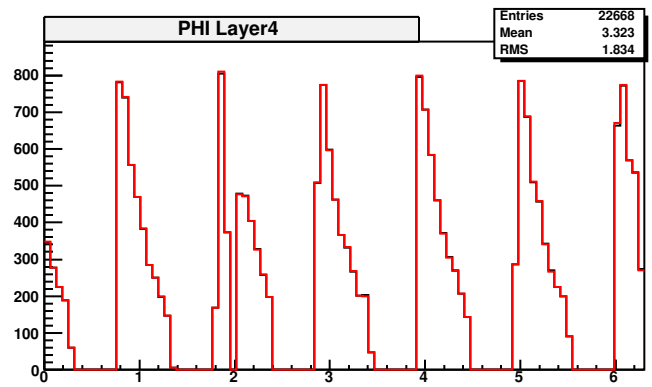


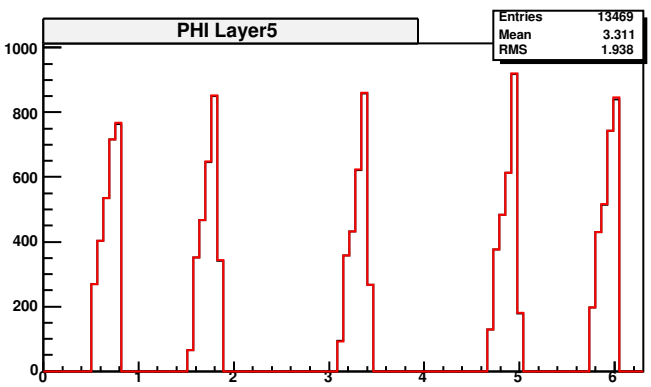
SmtClusters (ClustrBar4)

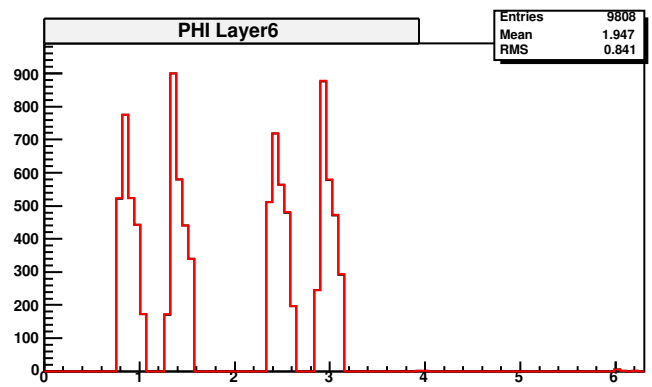


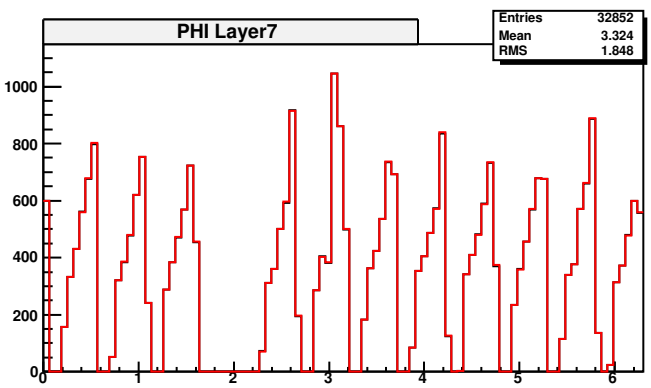


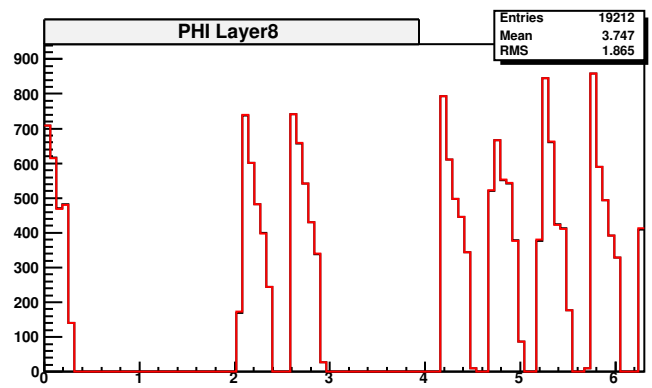




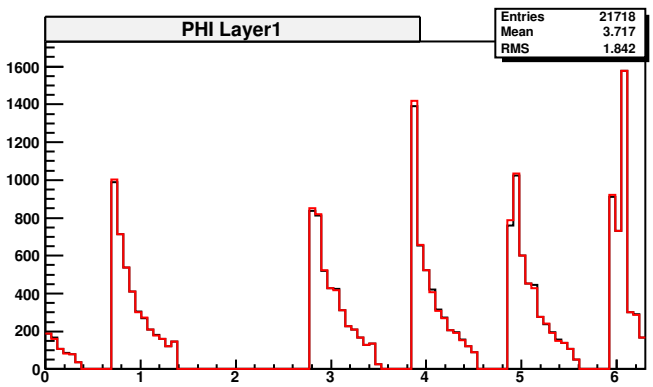


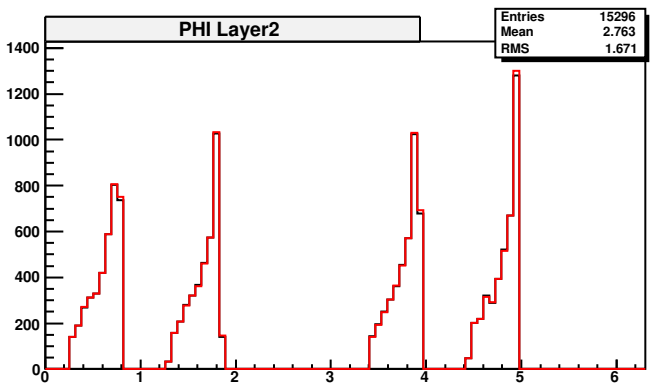


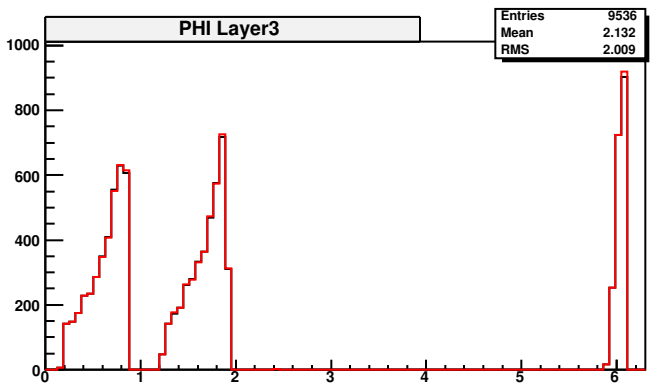


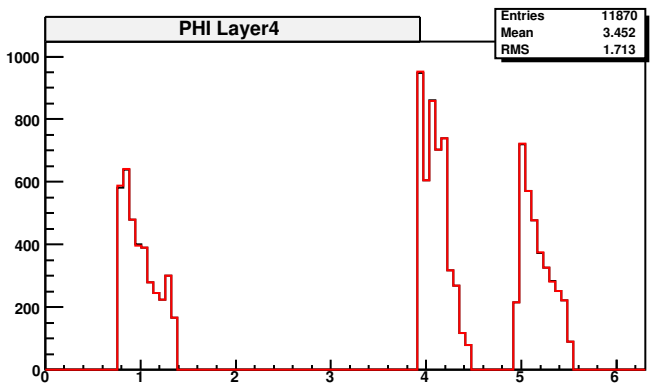


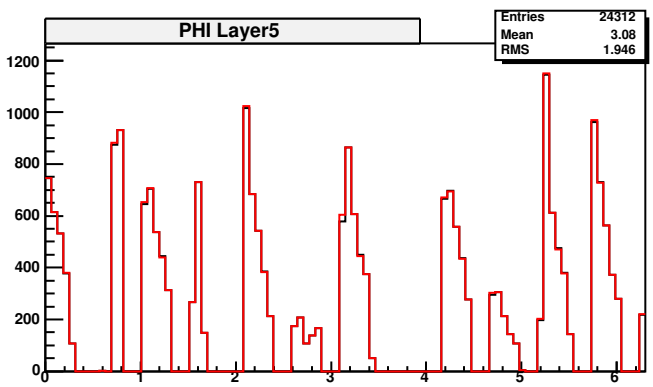
SmtClusters (ClustrBar5)

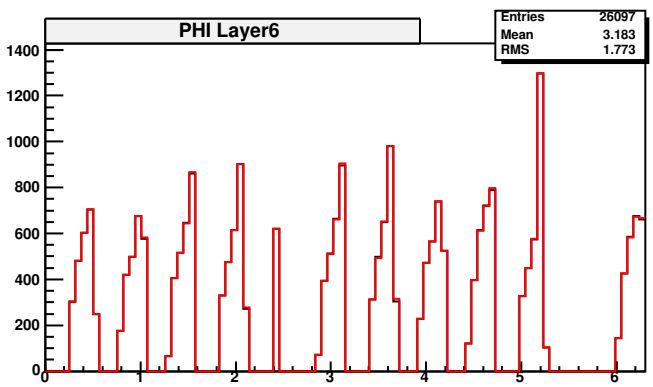


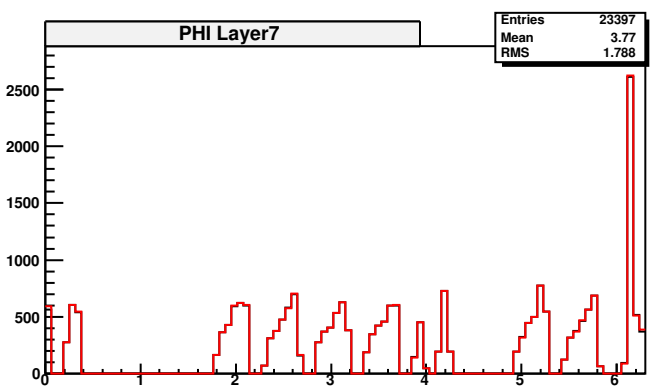


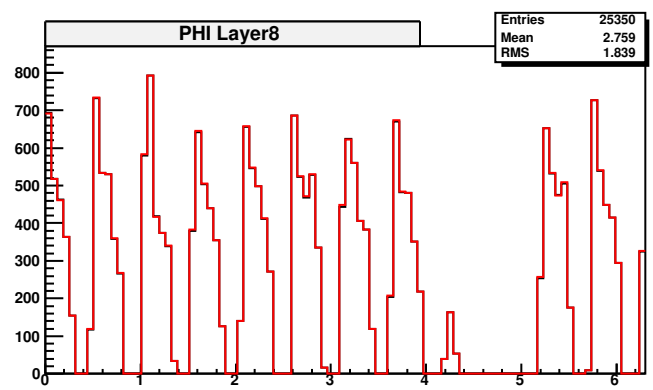




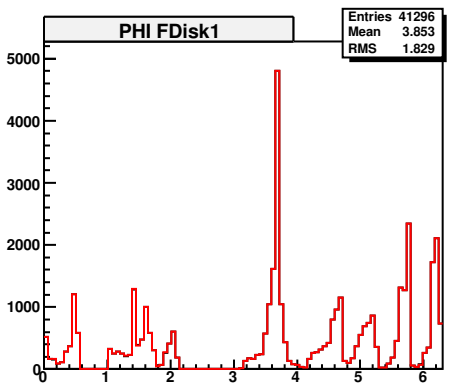


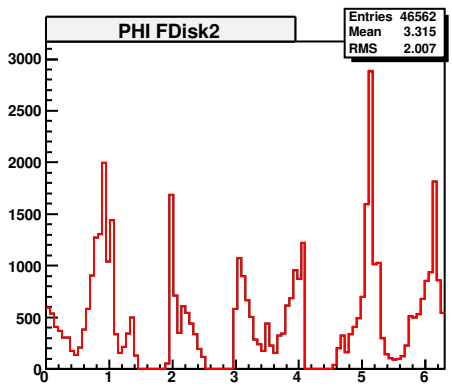


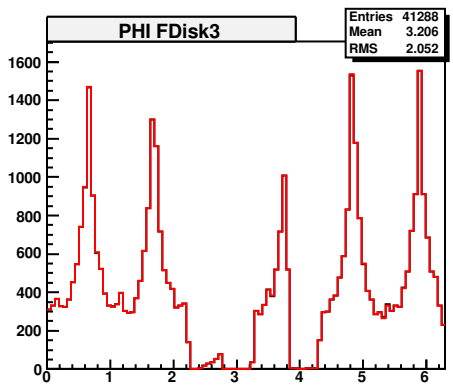


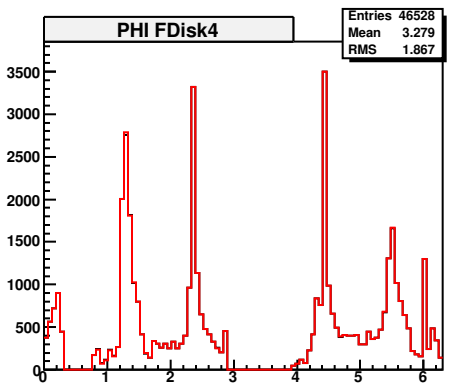


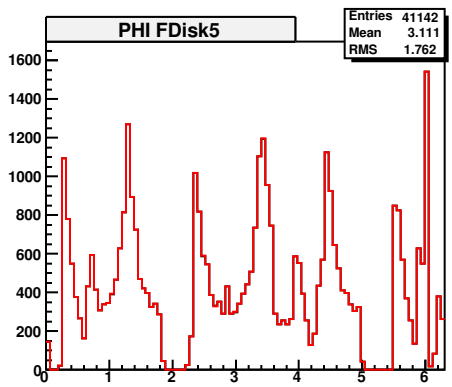
SmtClusters (ClustrBar6)

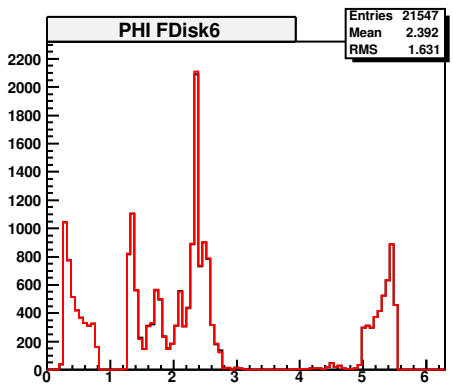


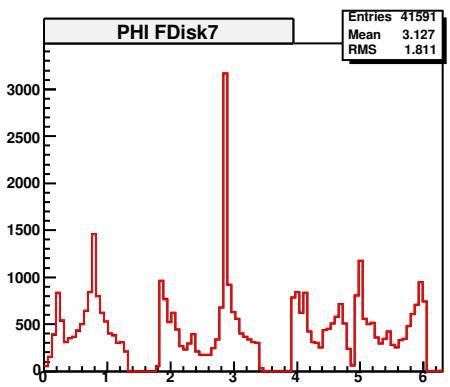


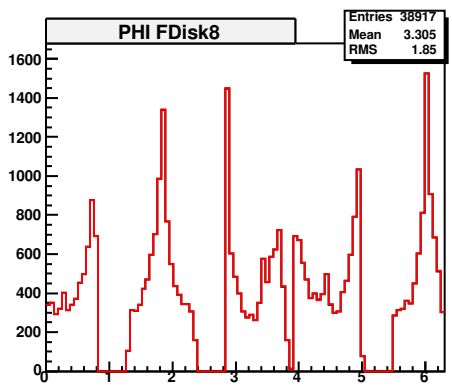


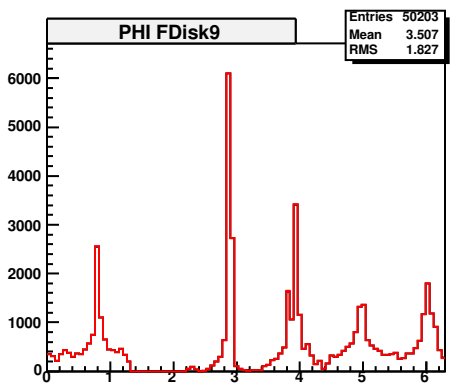


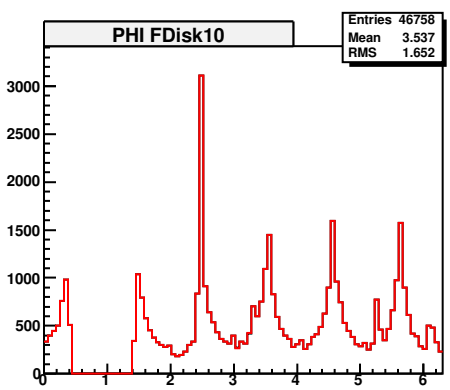


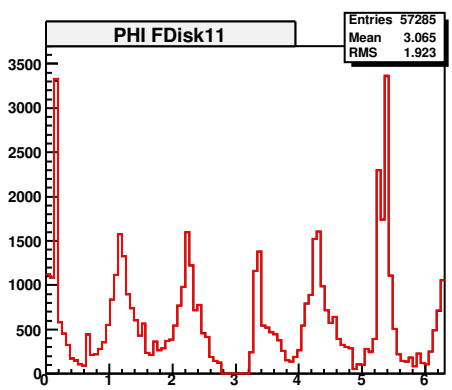


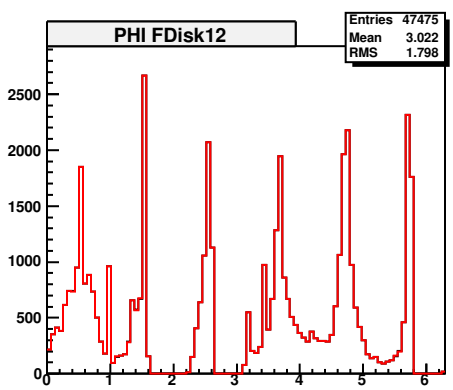




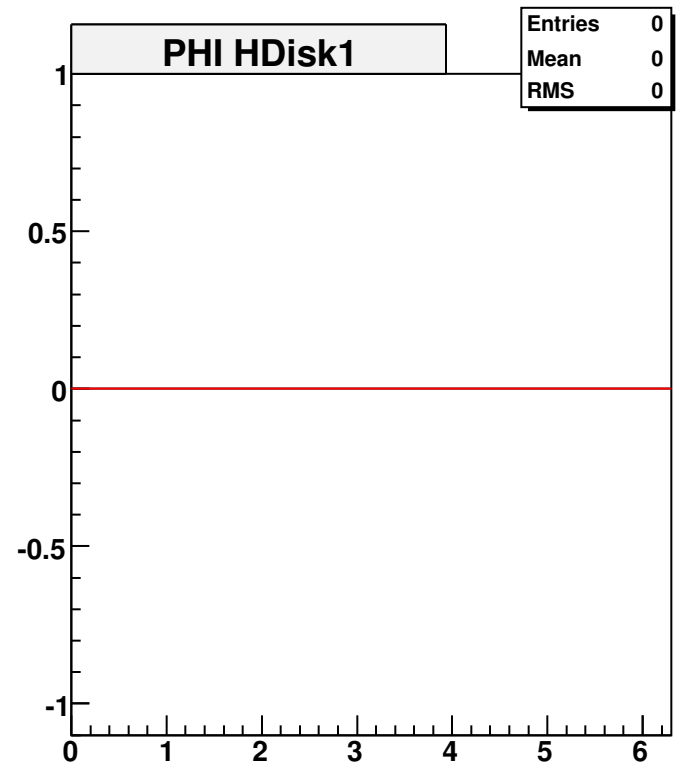


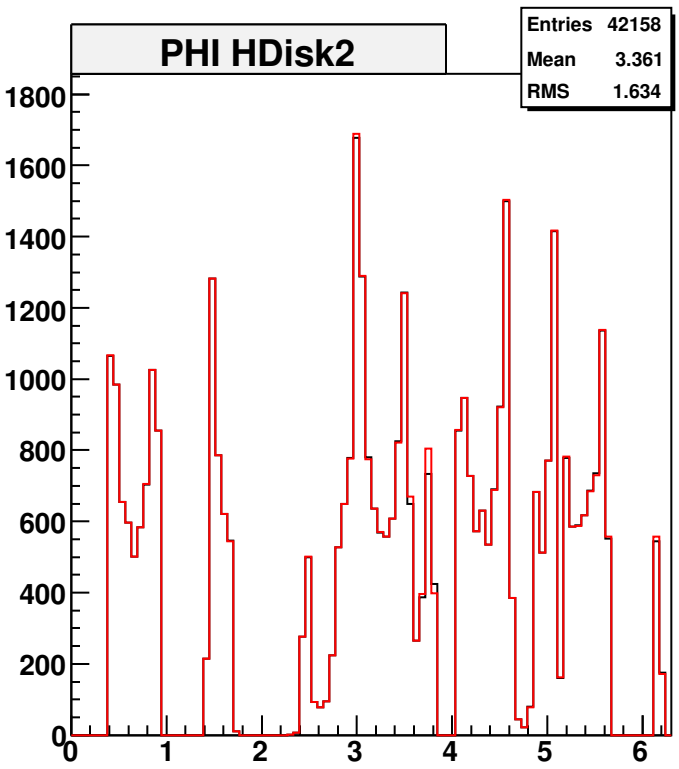


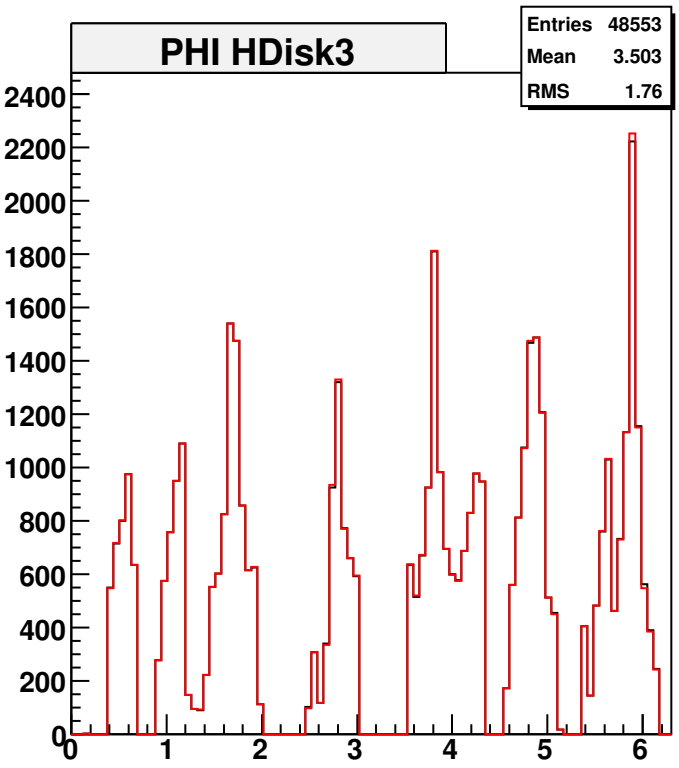


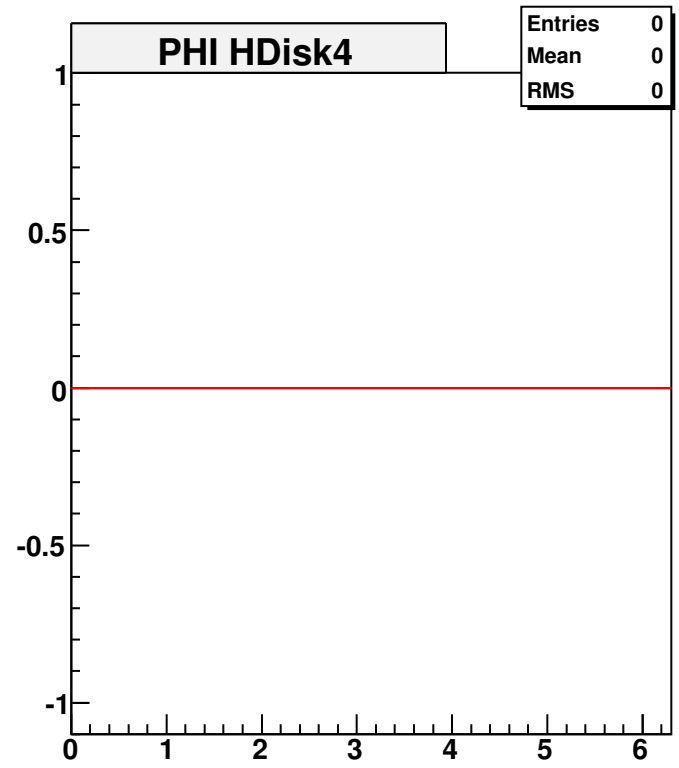


SmtClusters (FDiskClusters)

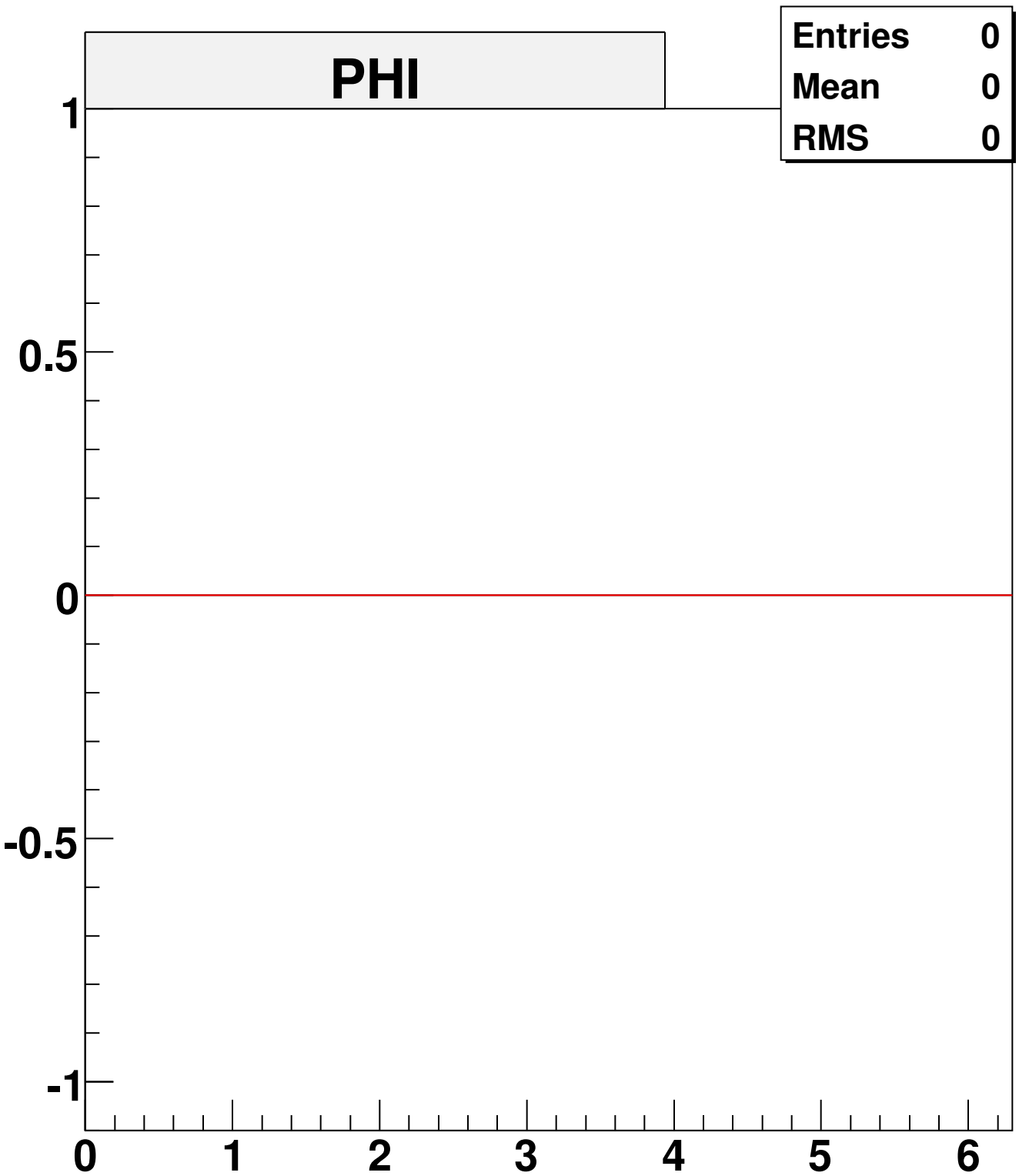


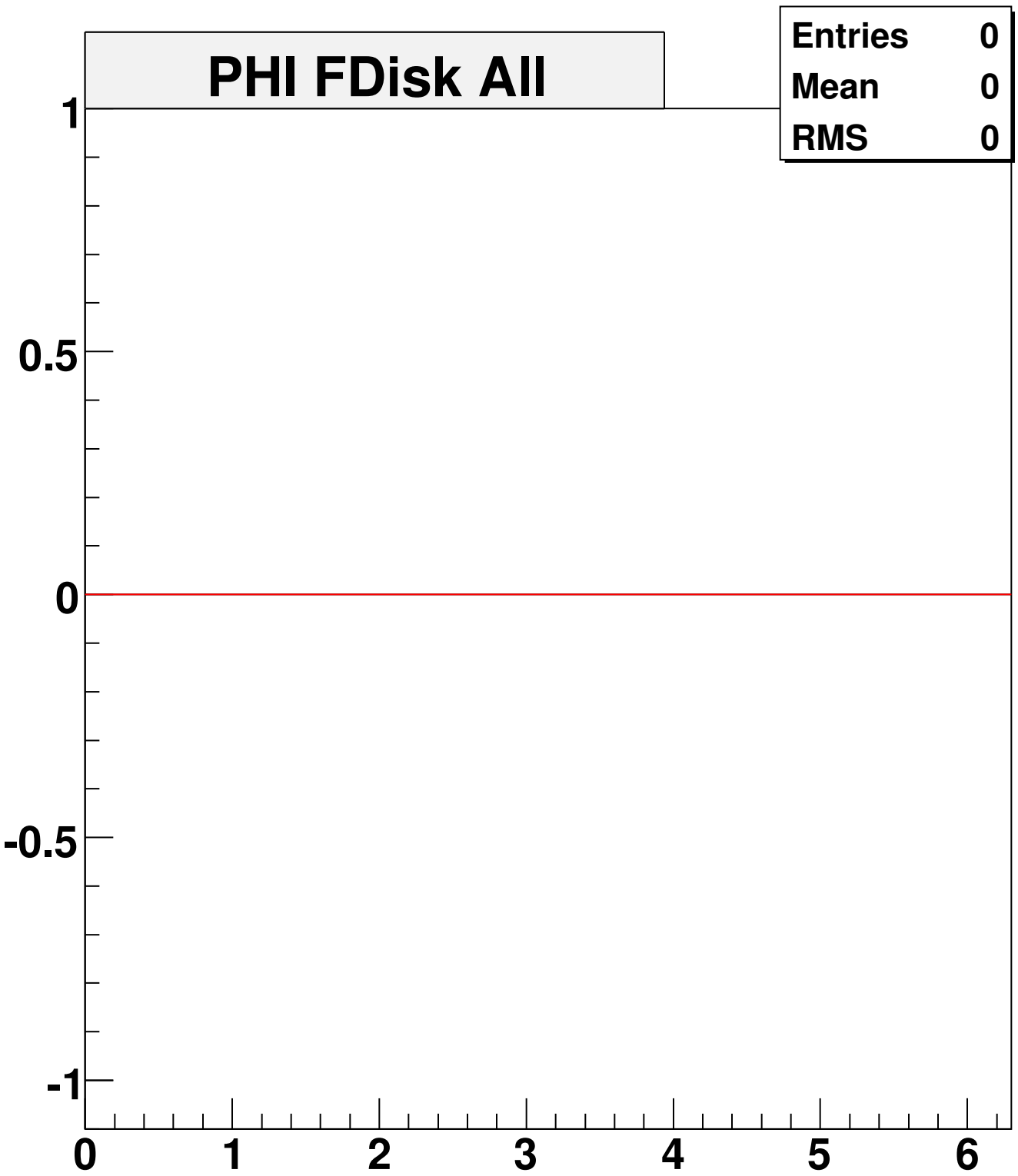






SmtClusters (HDiskClusters)


PHI
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
5
6
SmtClusters (allBarTClusters)


PHI FDisk All
Entries 0
Mean 0
RMS 0
1
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-1
0
1
2
3
4
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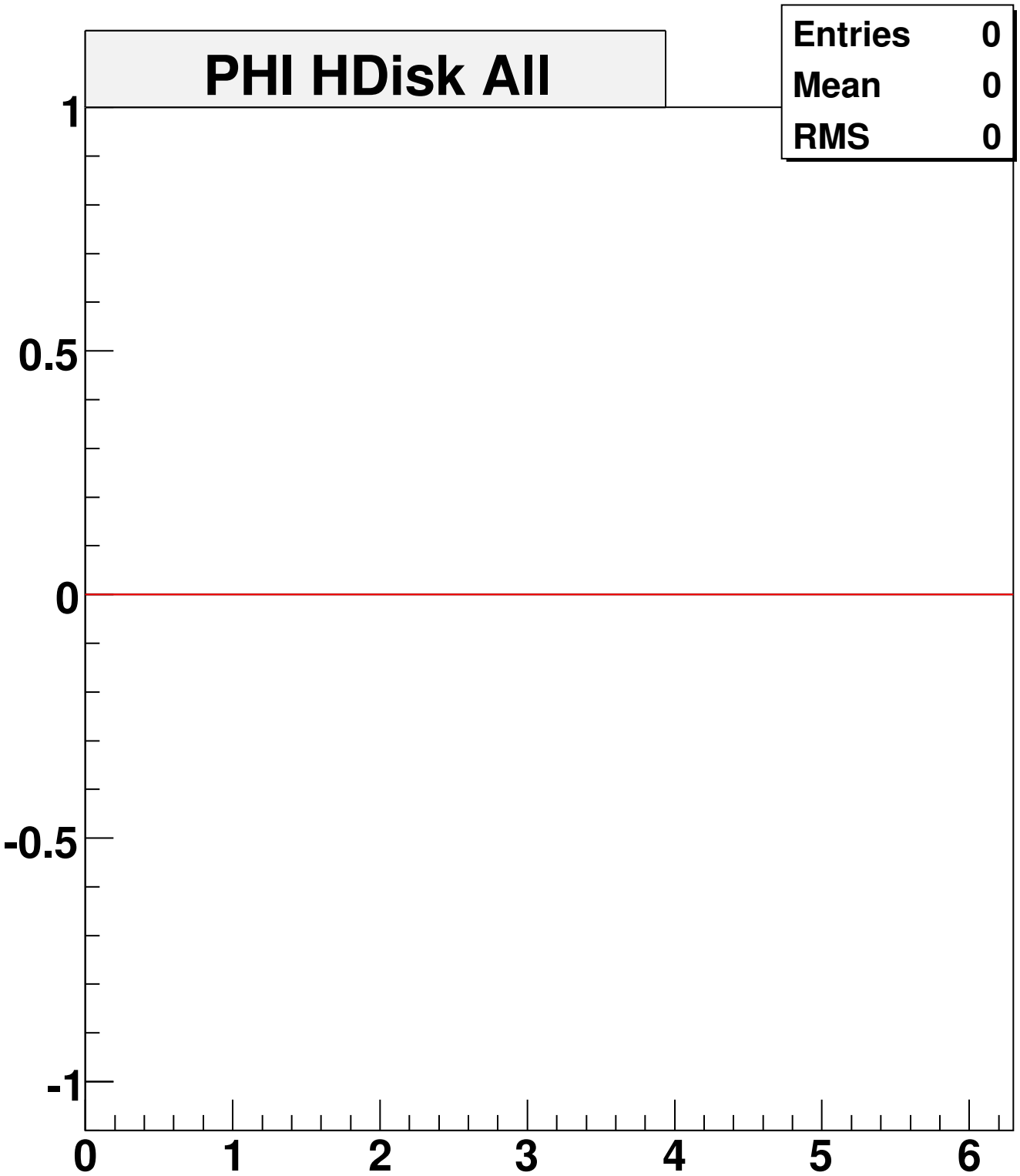
6
SmtClusters (allFDiskTClusters)


PHI HDisk All
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
0
1
2
3
4
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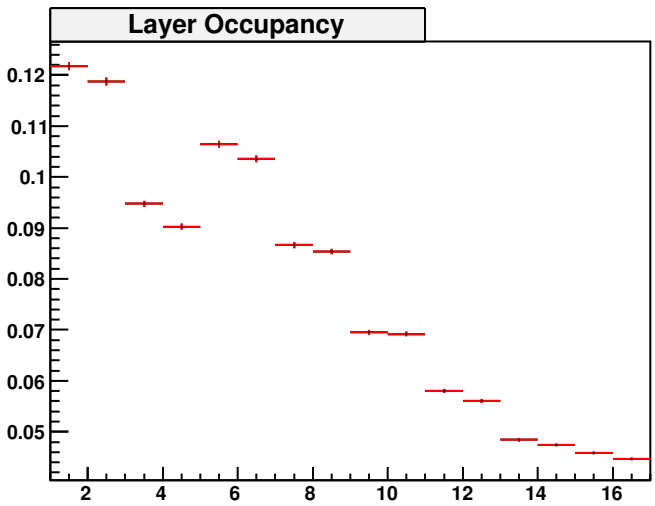
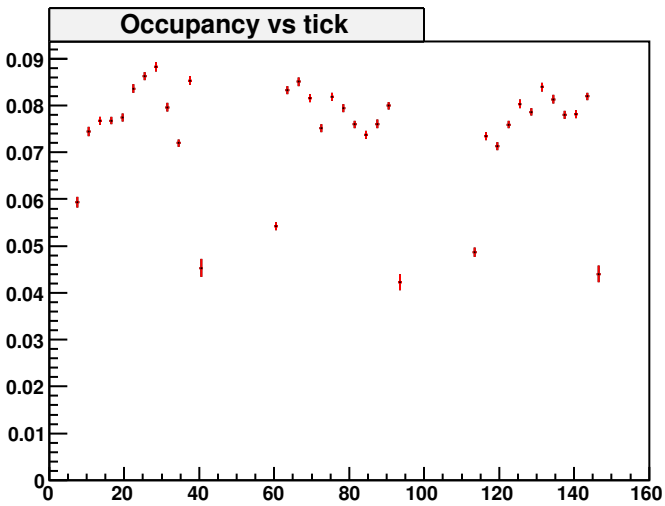
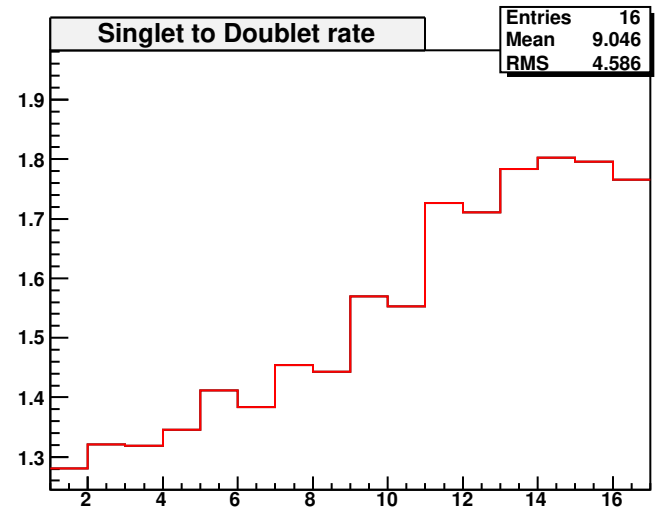
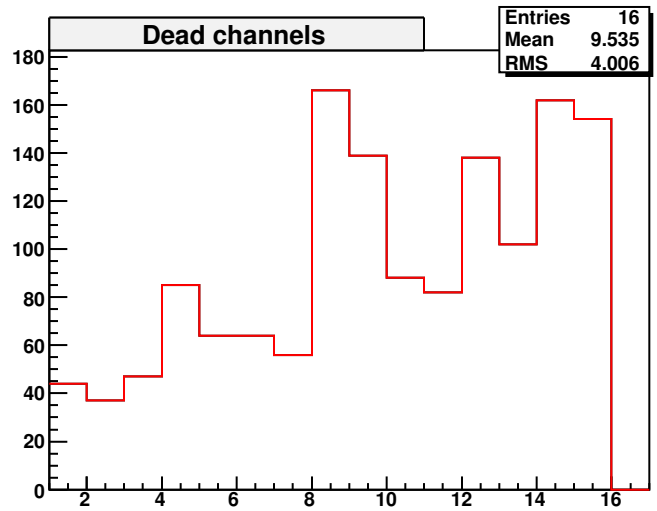
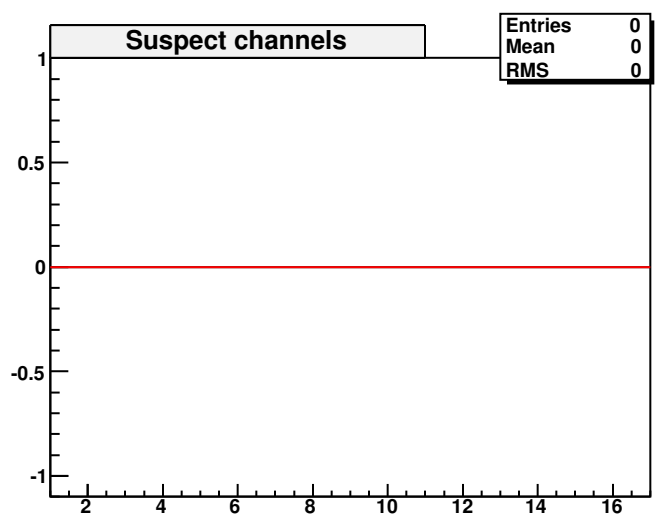
6
SmtClusters (allHDiskTClusters)

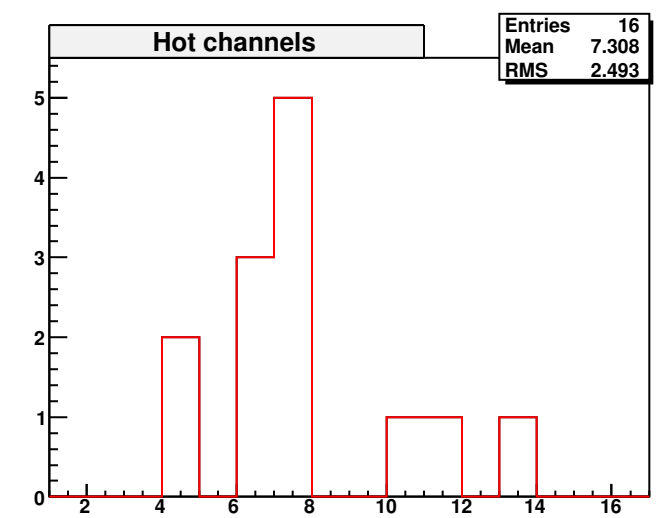




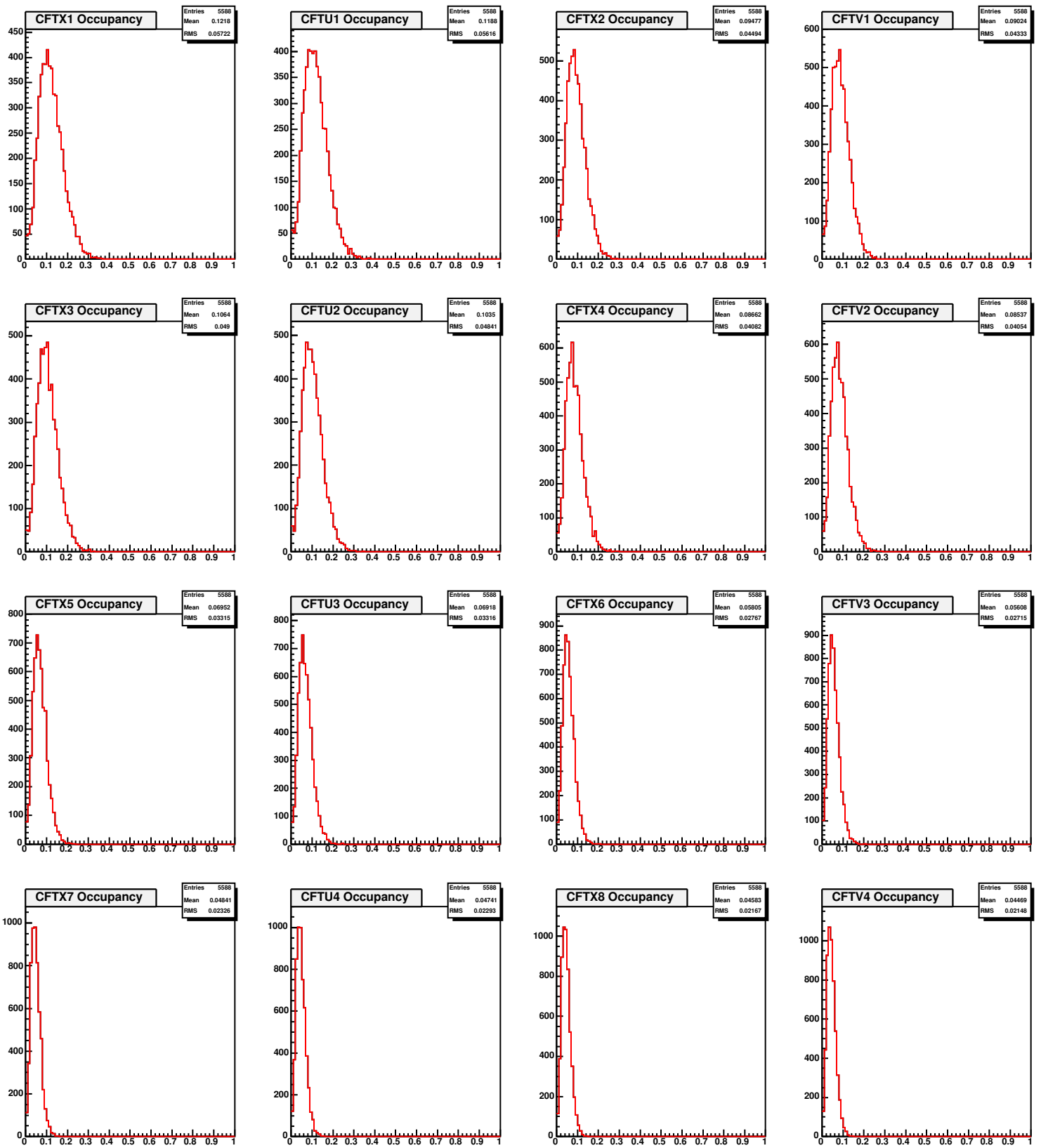




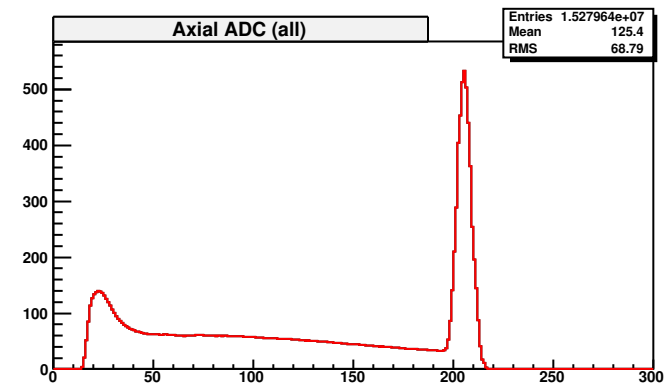


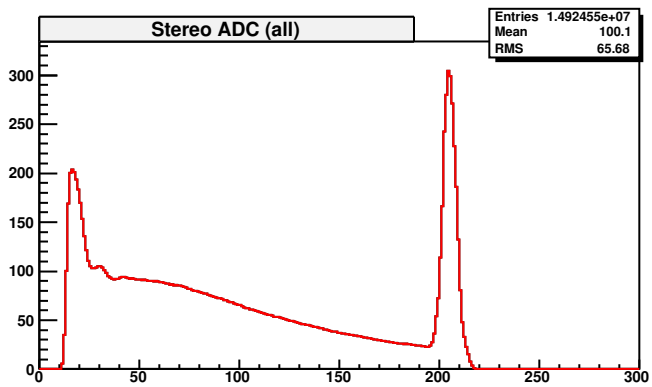


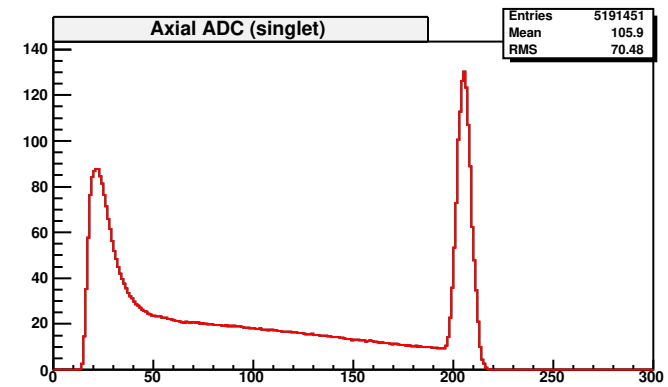
CFT Summary (All Clusters)

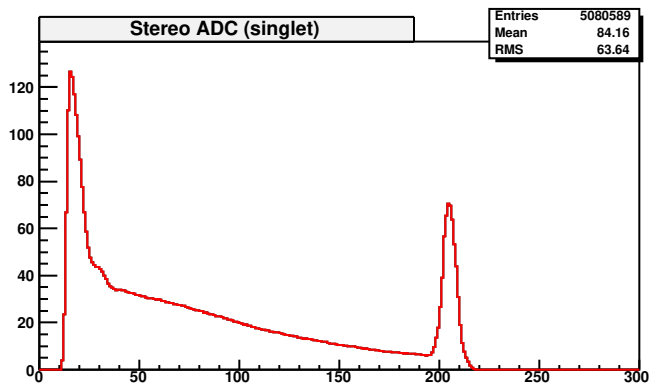


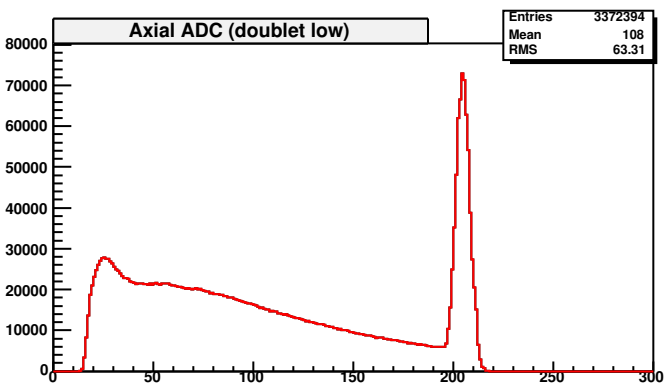
CFT Occupancy (All Clusters)

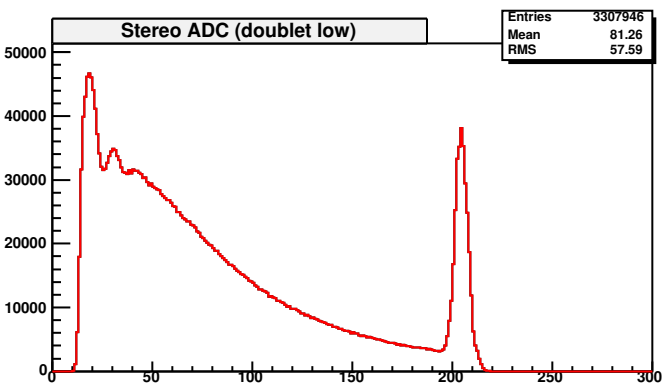


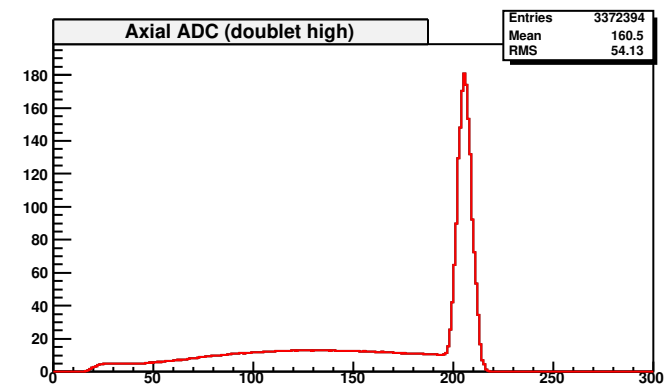


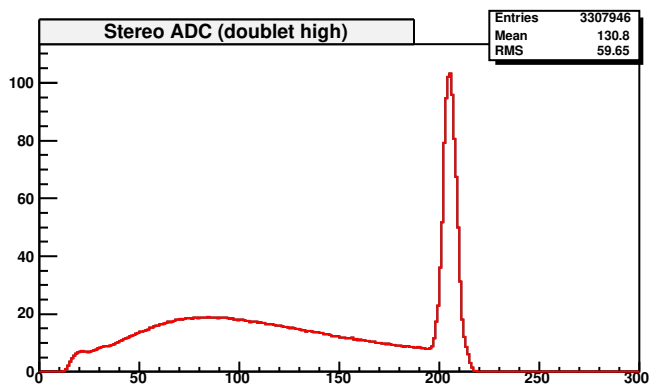




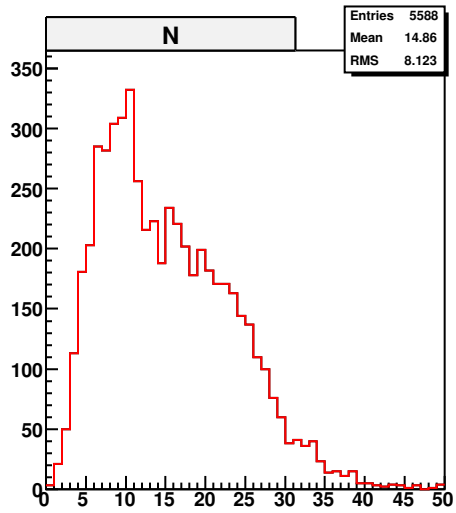


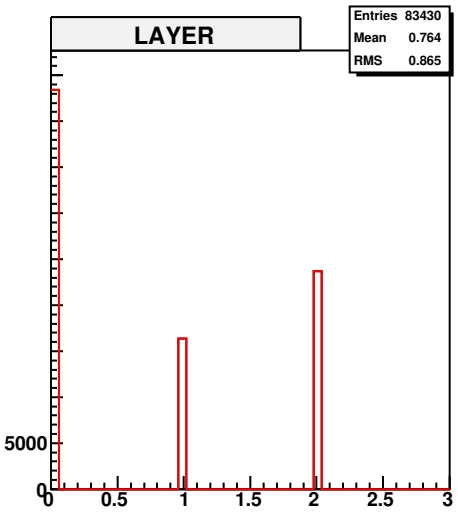


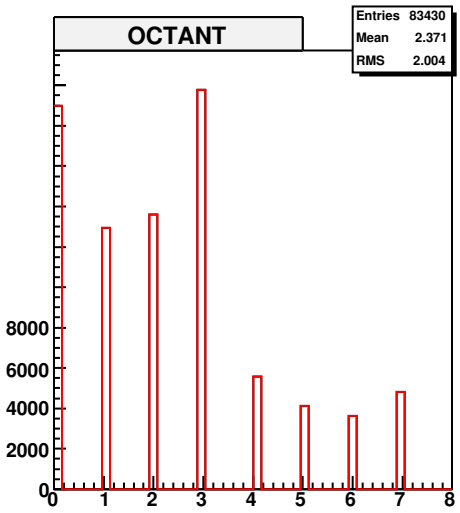


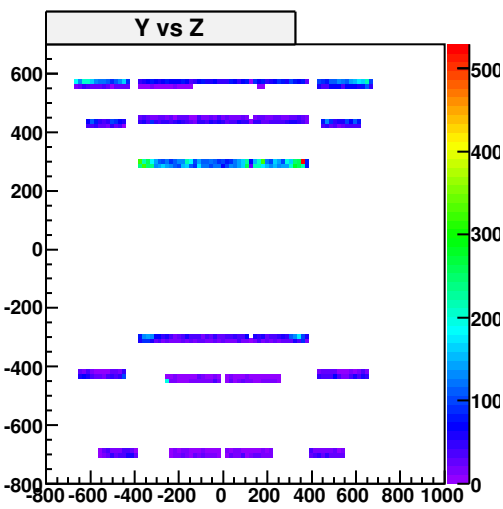


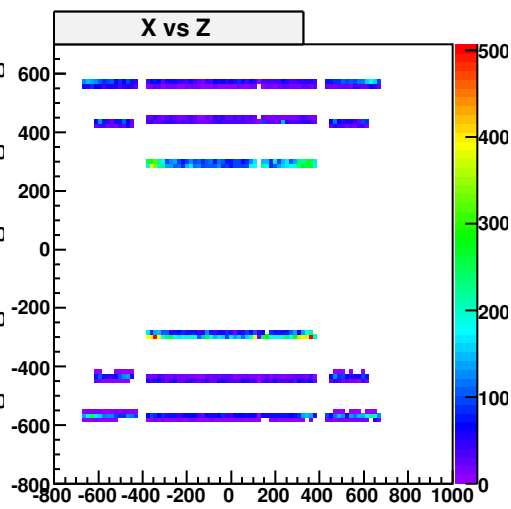
CFT ADC Summary (All Clusters)

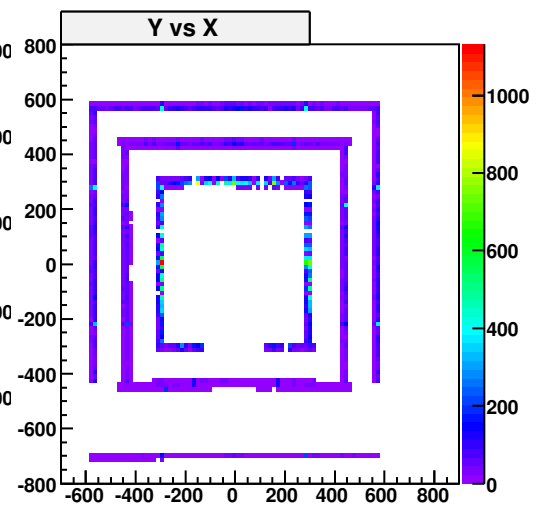

N
Entries 5588
Mean 14.86
RMS 8.123

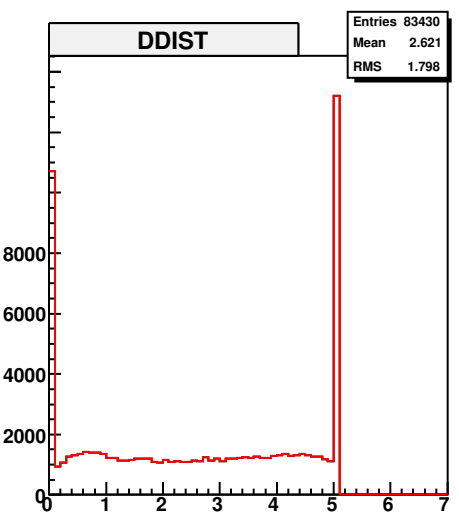

LAYER
Entries 83430
Mean 0.764
RMS 0.865

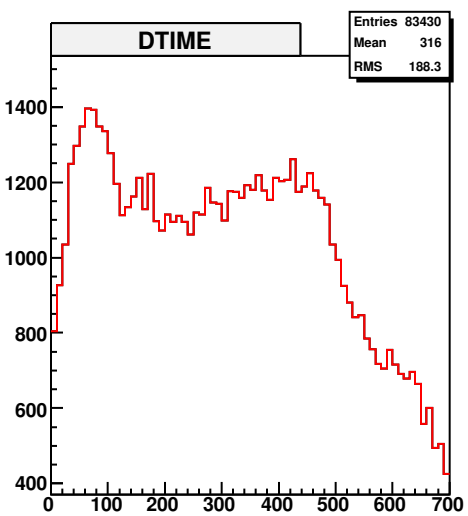

OCTANT
Entries 83430
Mean 2.371
RMS 2.004


Y vs Z

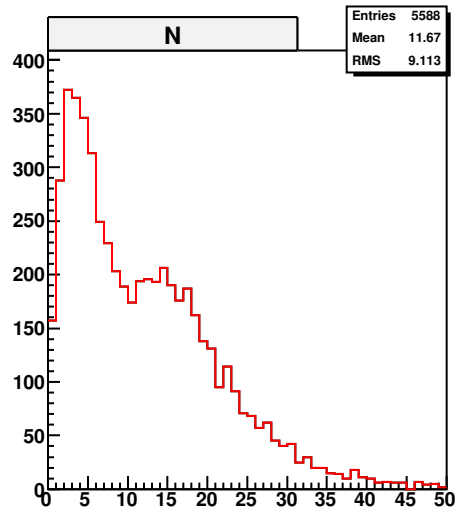

X vs Z

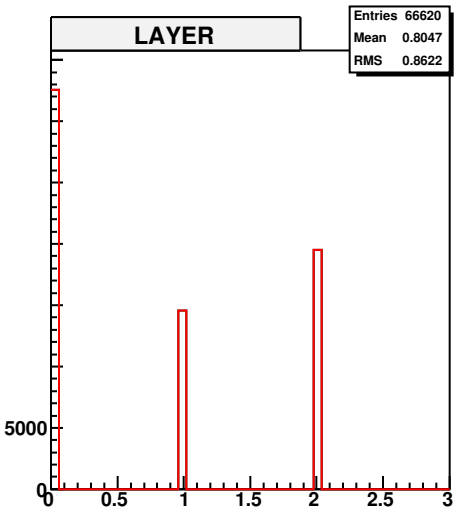

Y vs X

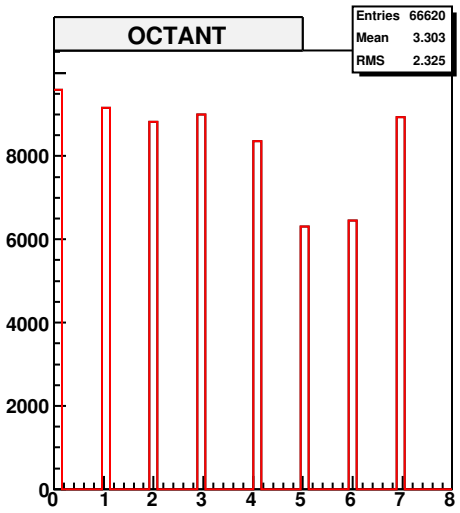

DDIST
Entries 83430
Mean 2.621
RMS 1.798

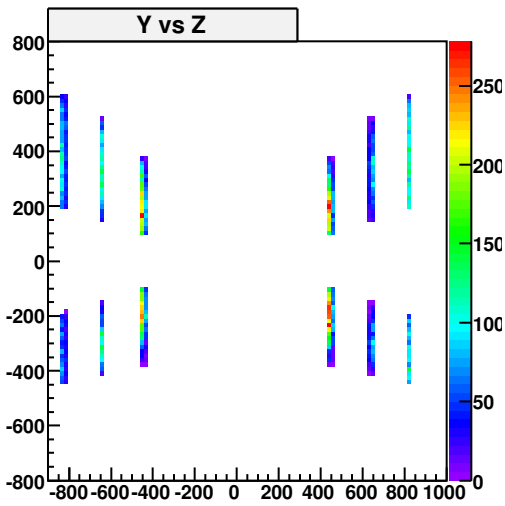

DTIME
Entries 83430
Mean 316
RMS 188.3

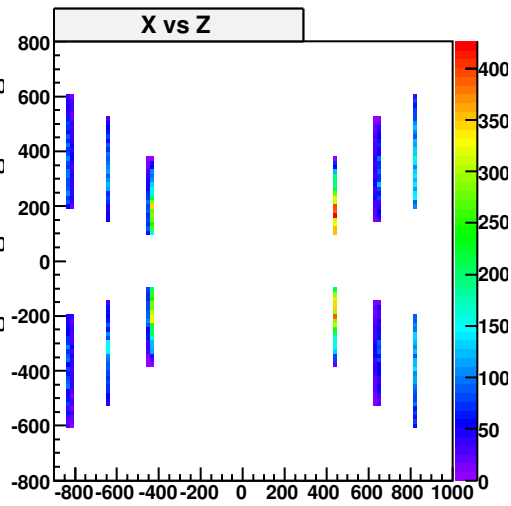
MuonPDT (All)

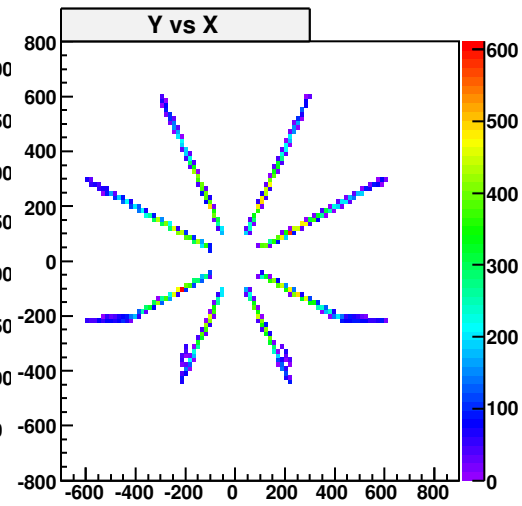

N
Entries 5588
Mean 11.67
RMS 9.113

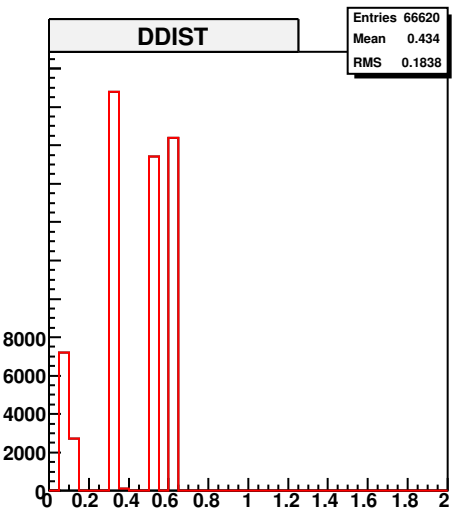

LAYER
Entries 66620
Mean 0.8047
RMS 0.8622

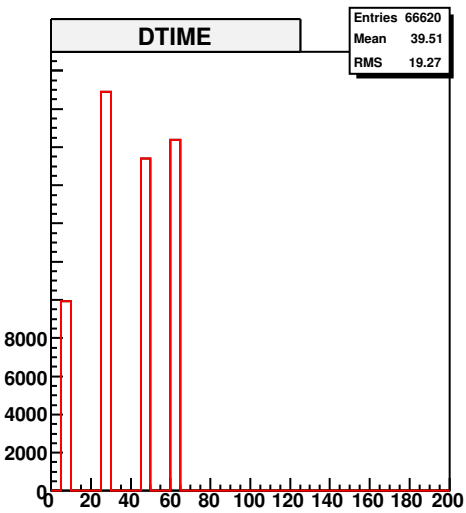

OCTANT
Entries 66620
Mean 3.303
RMS 2.325


Y vs Z

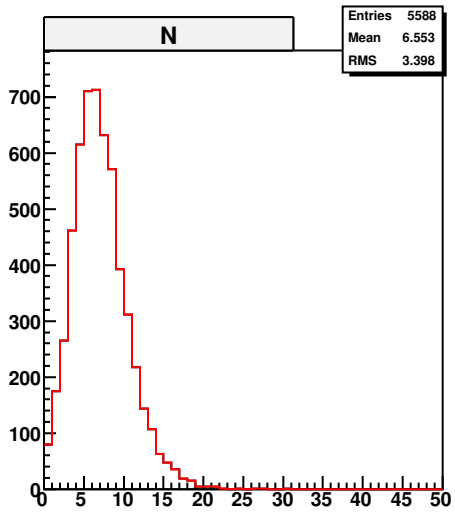

X vs Z

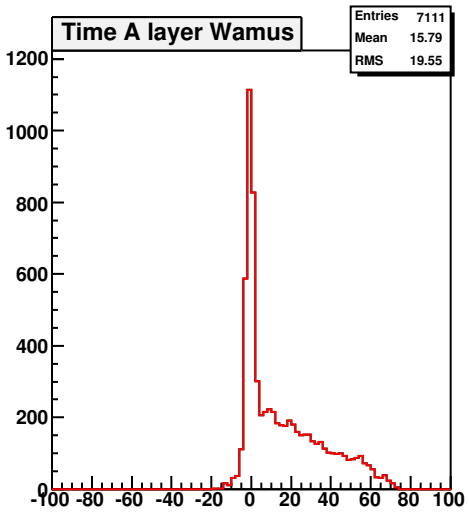

Y vs X

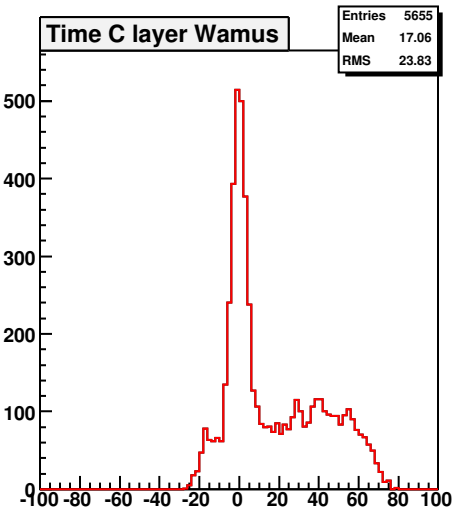

DDIST
Entries 66620
Mean 0.434
RMS 0.1838

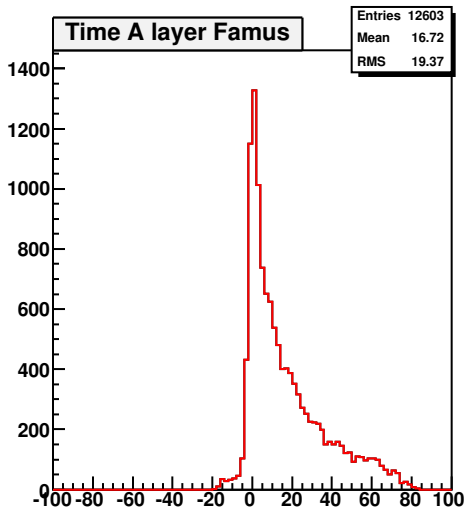

DTIME
Entries 66620
Mean 39.51
RMS 19.27

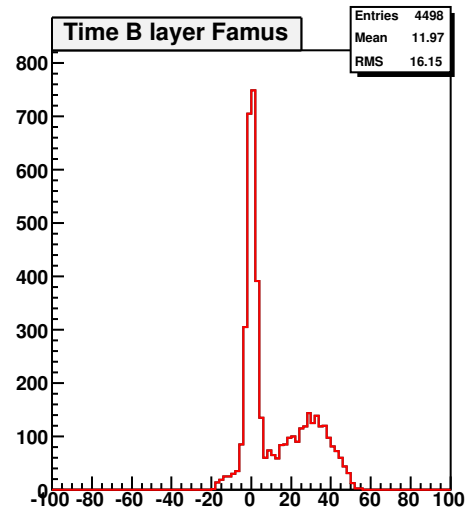
MuonMDT (All)

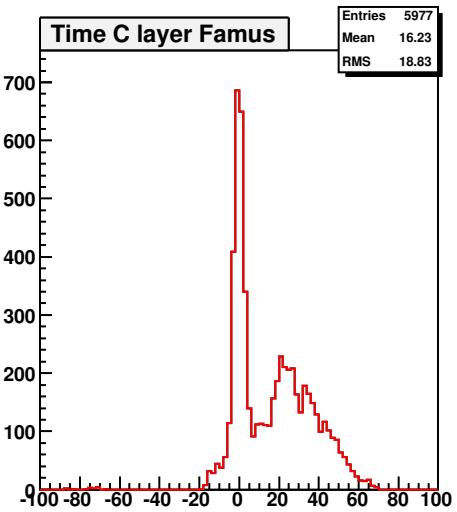

N
Entries 5588
Mean 6.553
RMS 3.398

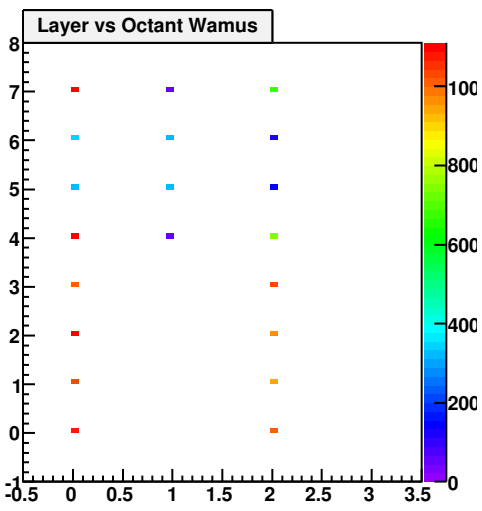

Time A layer Wamus
Entries 7111
Mean 15.79
RMS 19.55

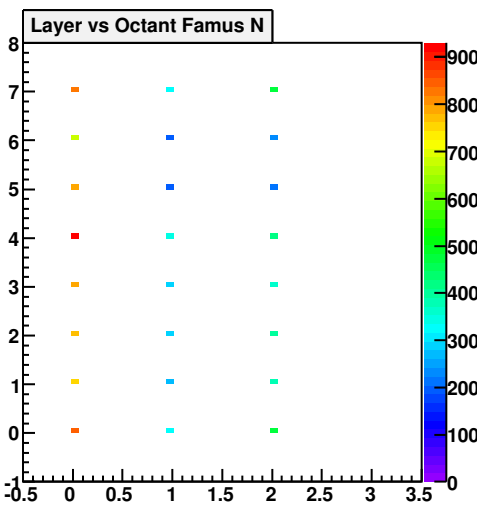

Time C layer Wamus
Entries 5655
Mean 17.06
RMS 23.83

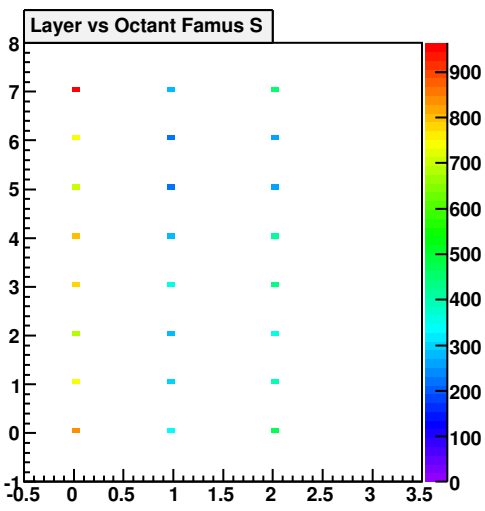

Time A layer Famus
Entries 12603
Mean 16.72
RMS 19.37


Time B layer Famus
Entries 4498
Mean 11.97
RMS 16.15

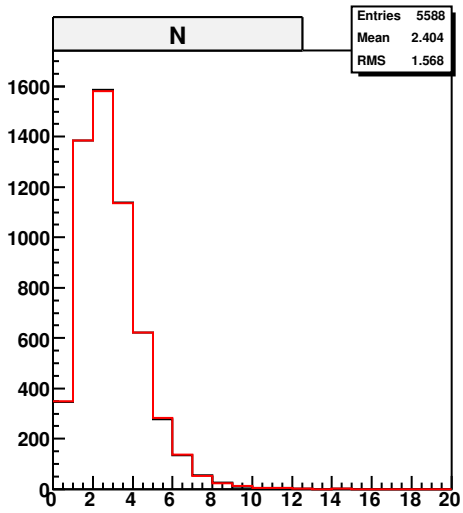

Time C layer Famus
Entries 5977
Mean 16.23
RMS 18.83

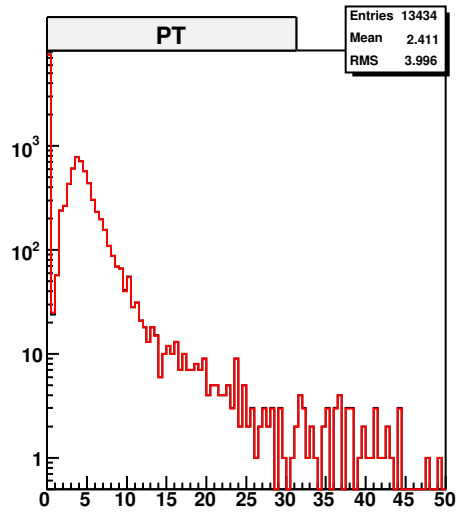

Layer vs Octant Wamus

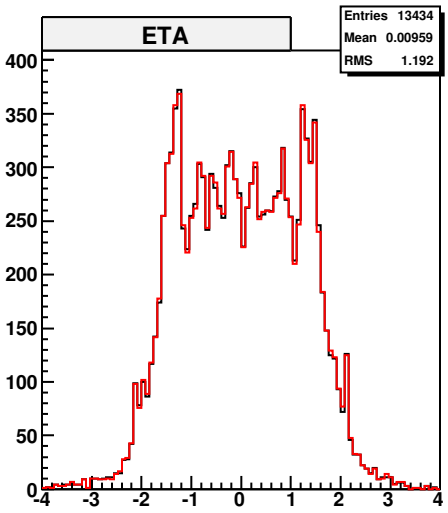

Layer vs Octant Famus N

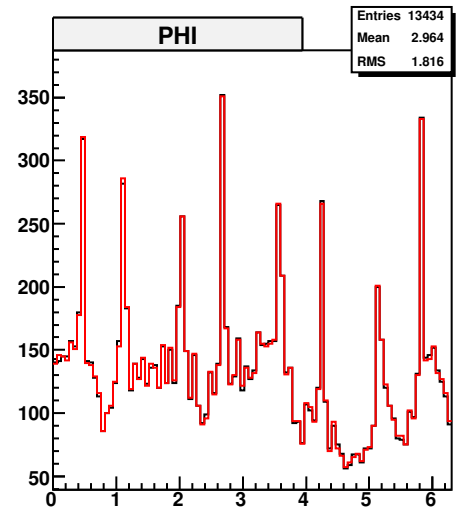

Layer vs Octant Famus S

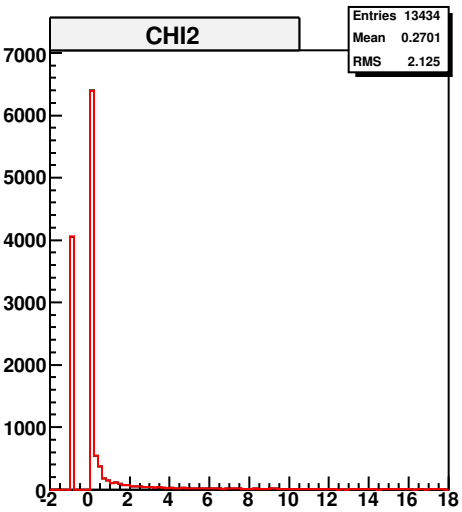
MuonMSC (All)

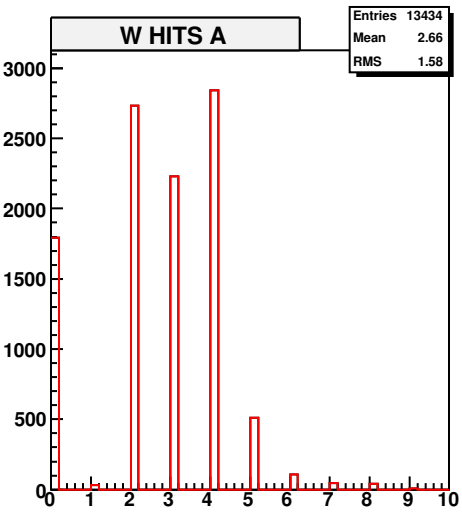


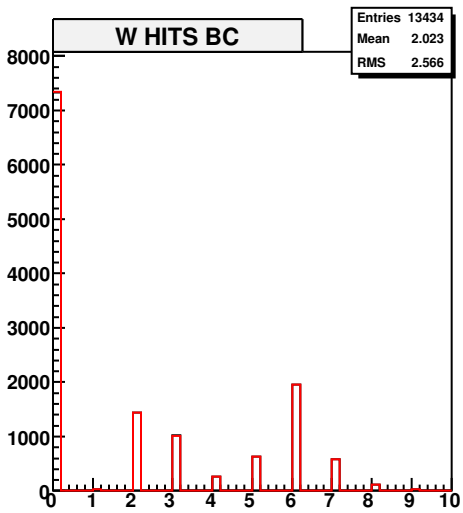


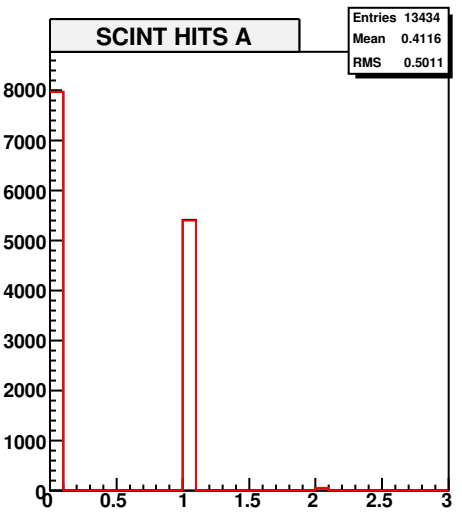


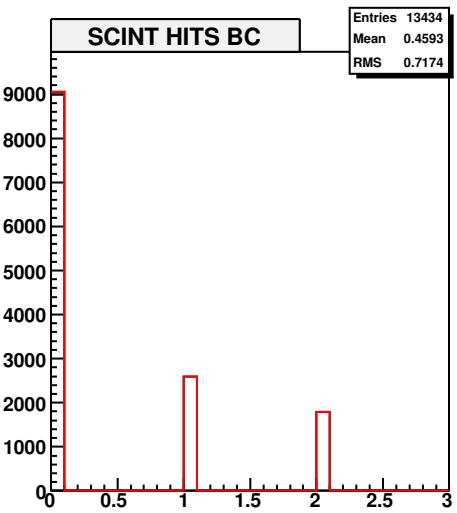




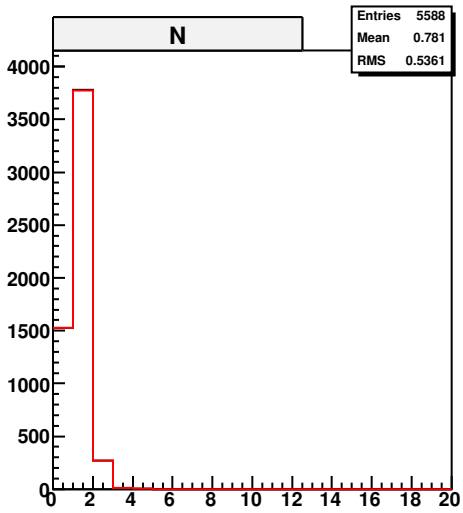


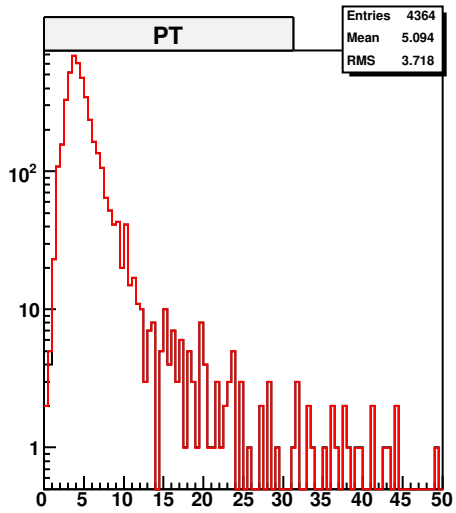


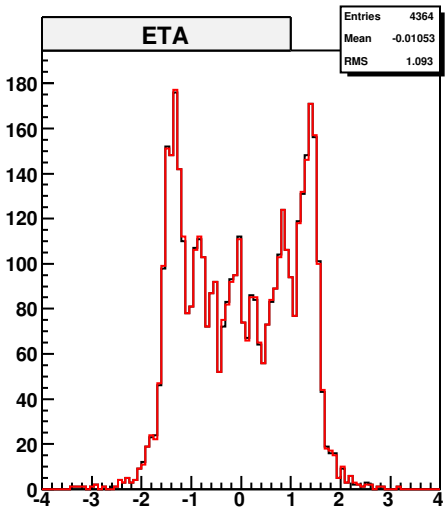


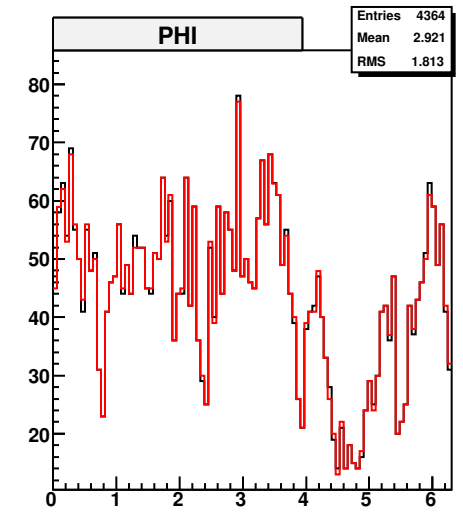


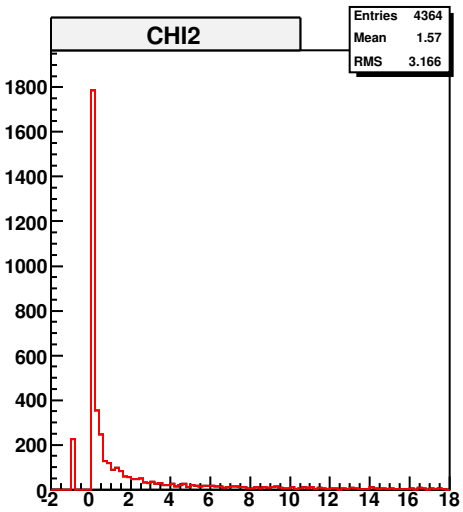
Muon Local Tracks (All)

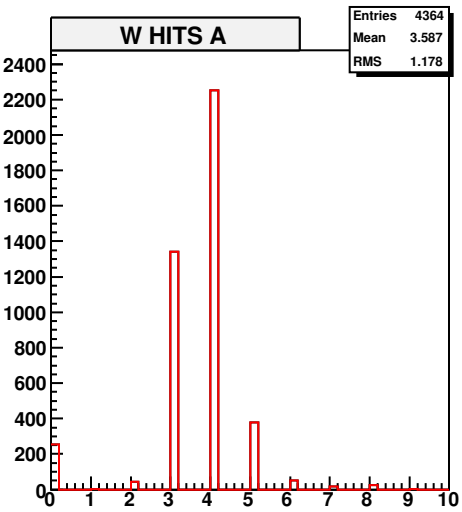


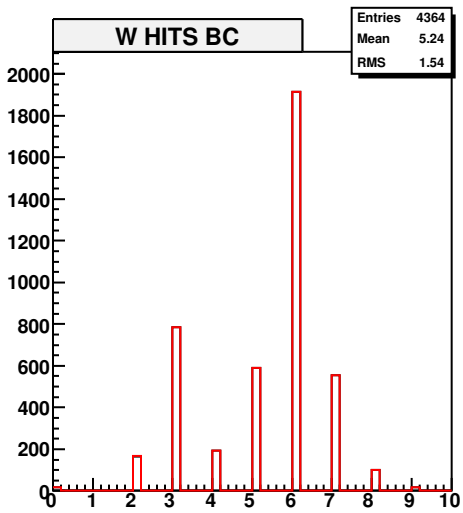


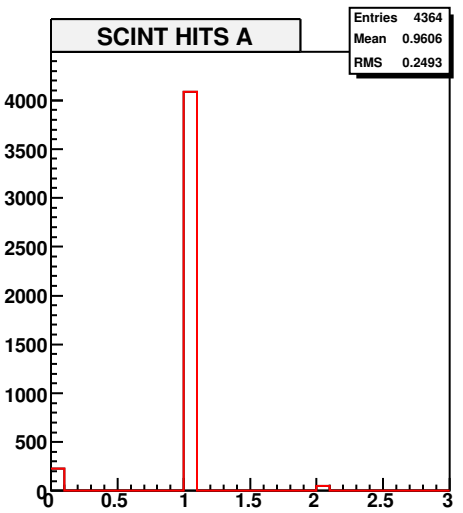


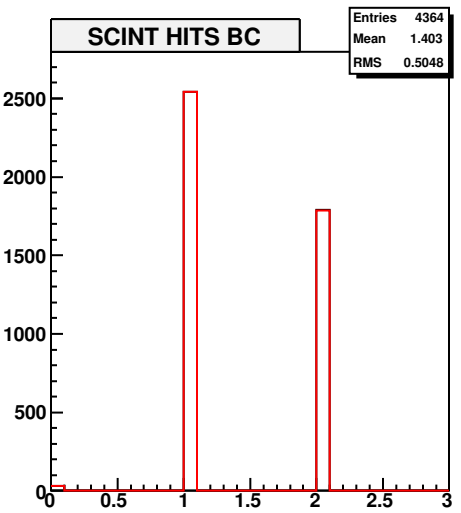




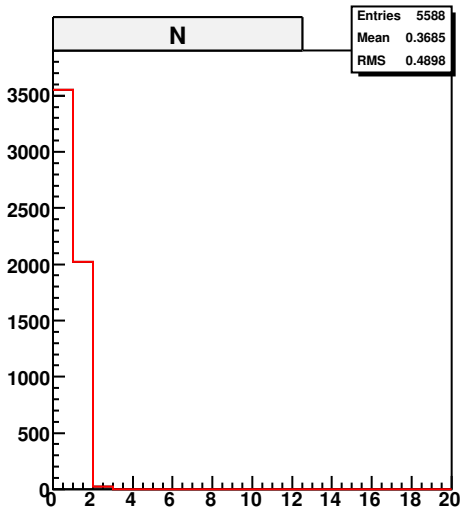


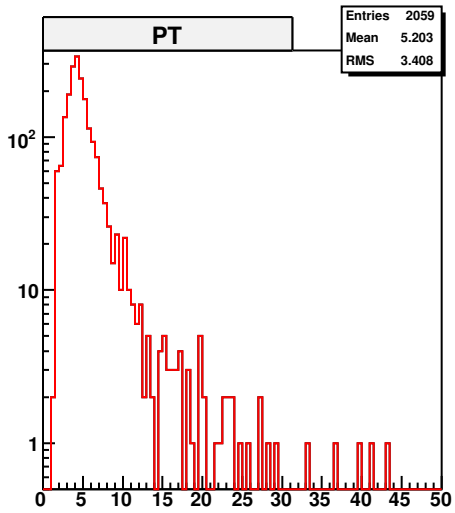


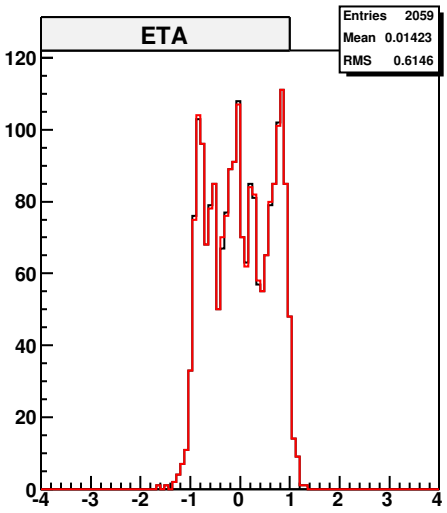


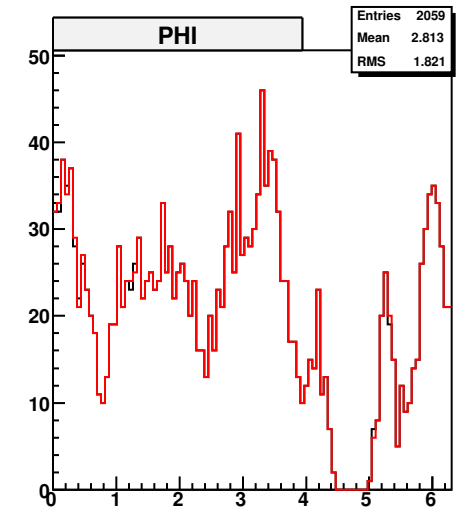


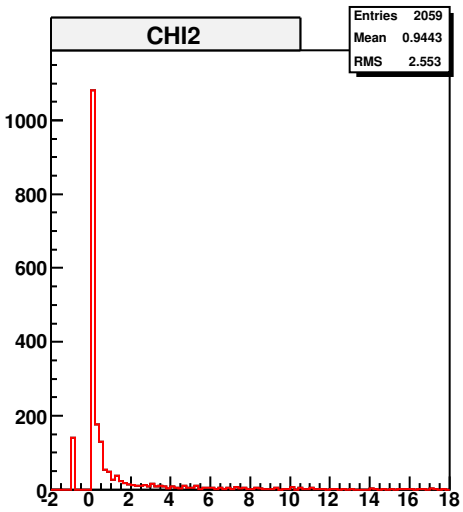
Muon Local Tracks (LooseWamus)

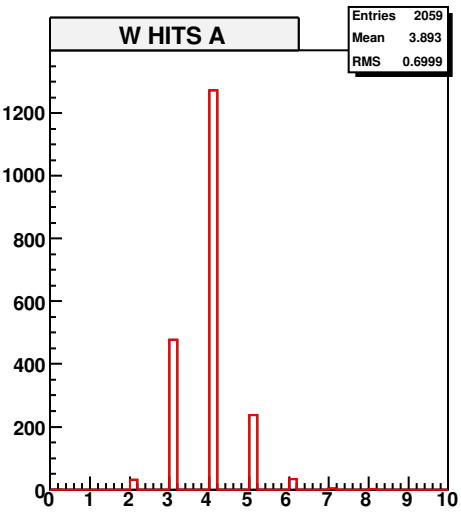


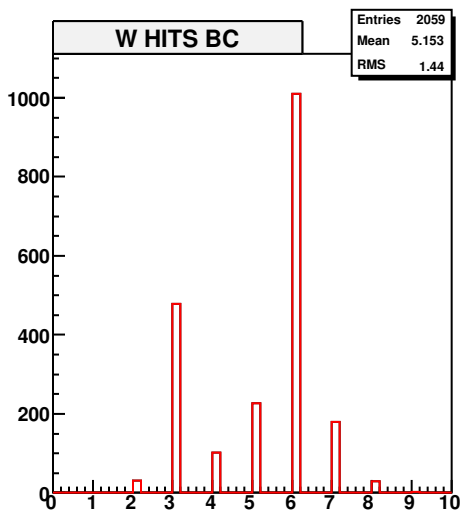


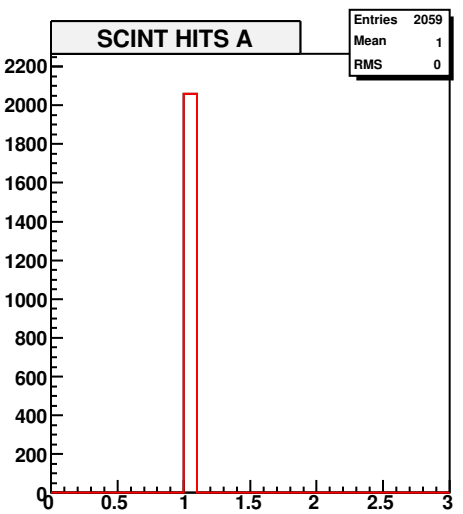


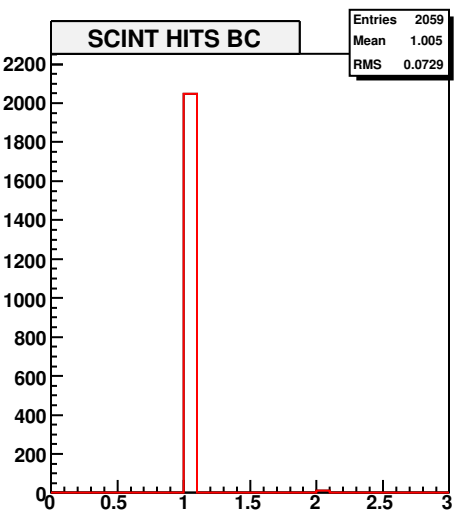




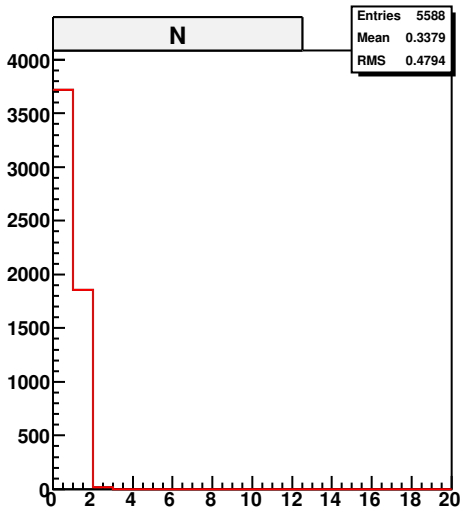


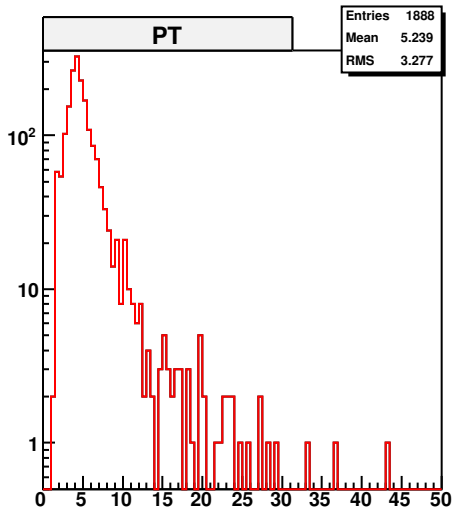


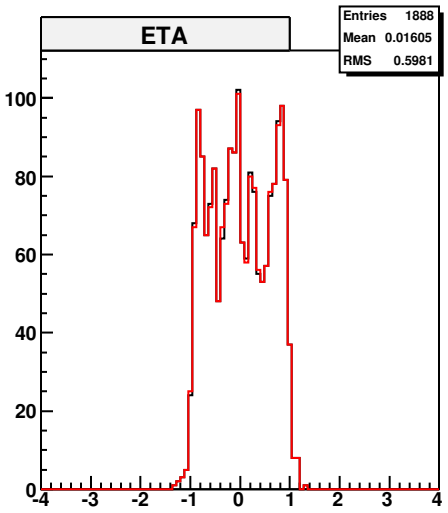


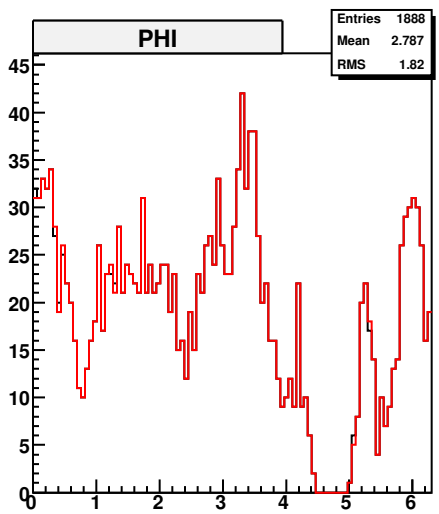


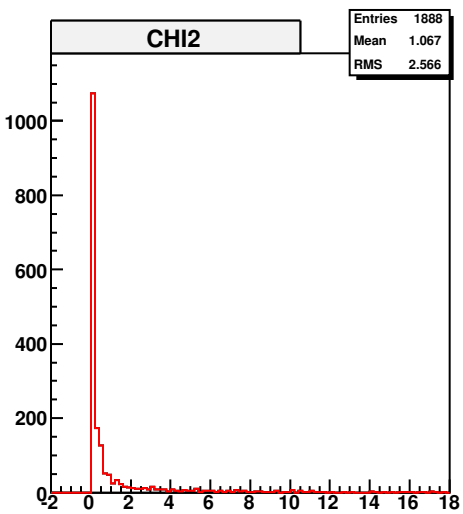
Muon Local Tracks (MediumWamus)

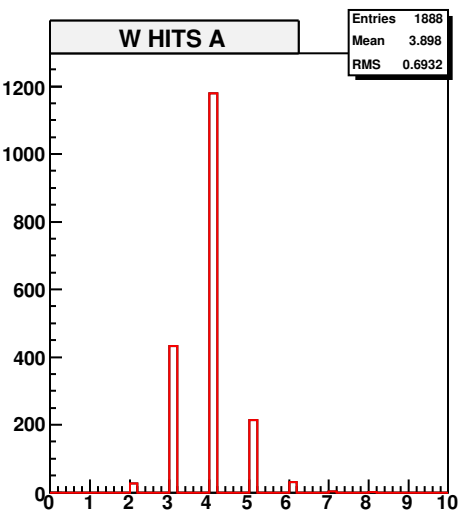


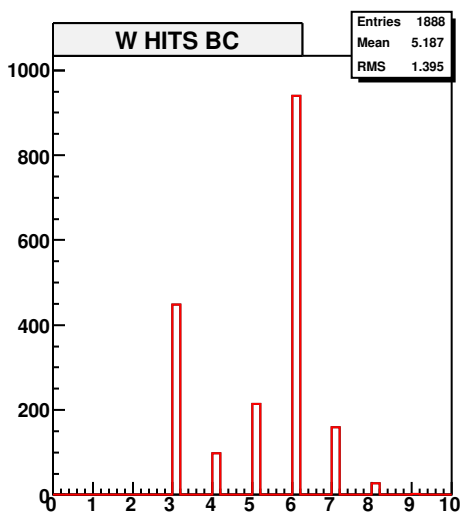


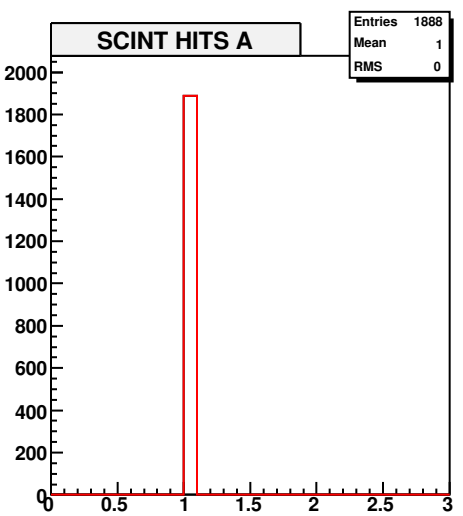


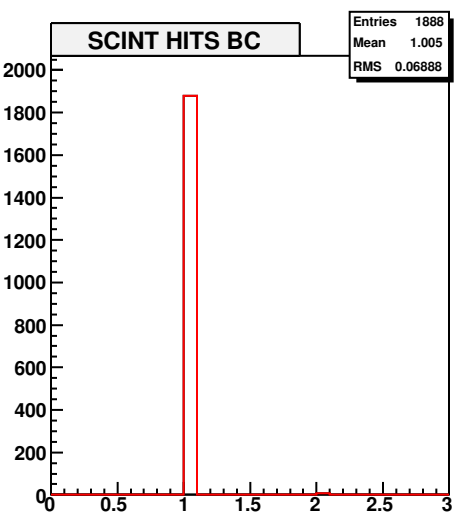




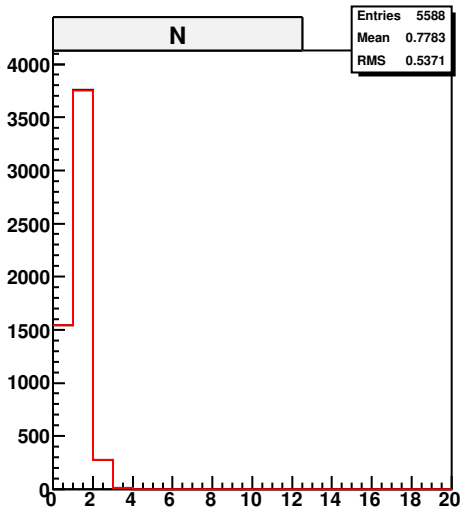


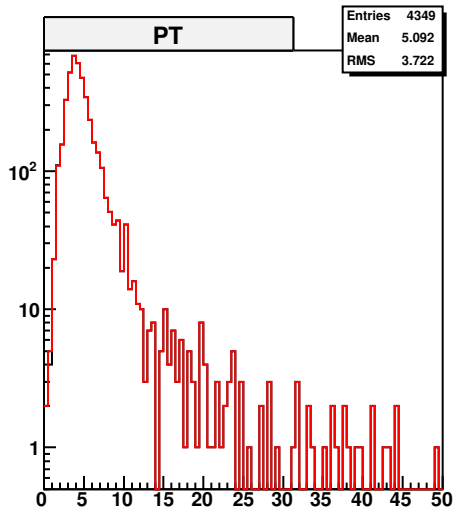


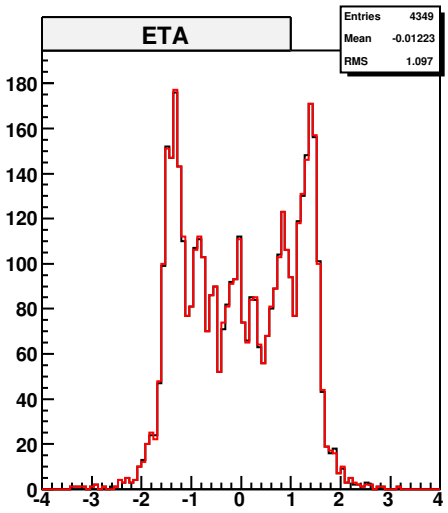


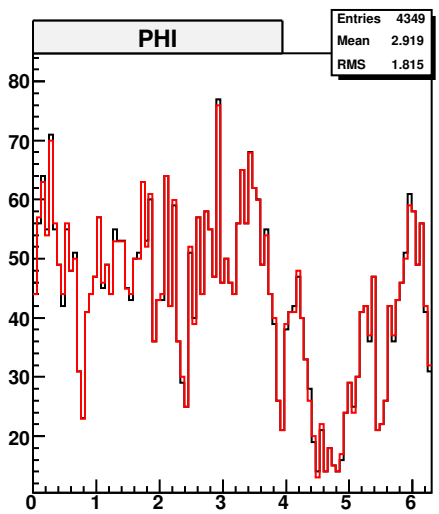


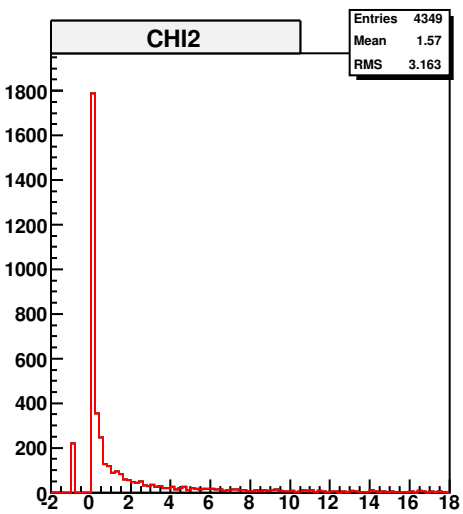
Muon Local Tracks (TightWamus)

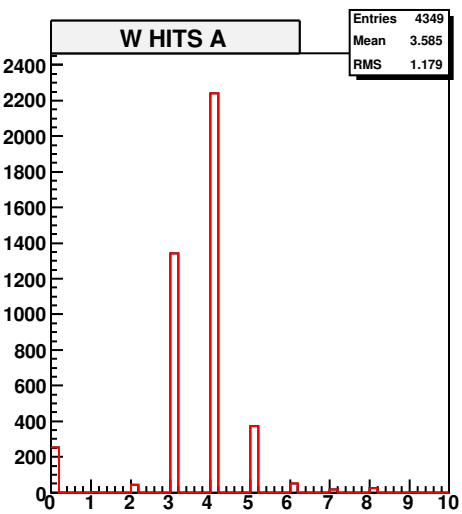


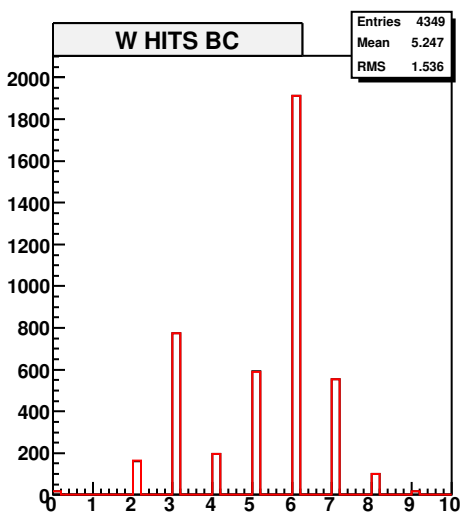


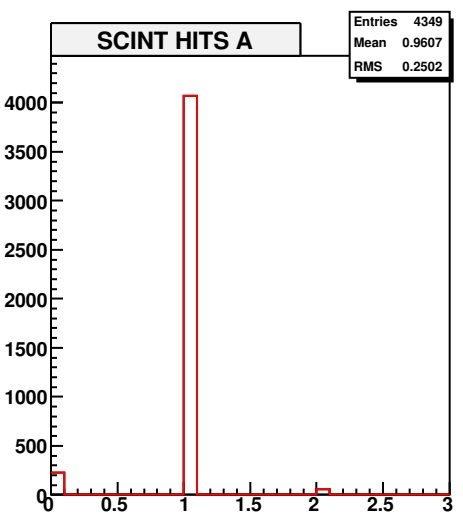


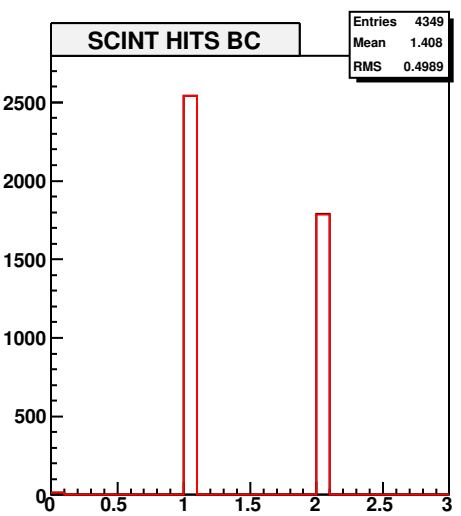




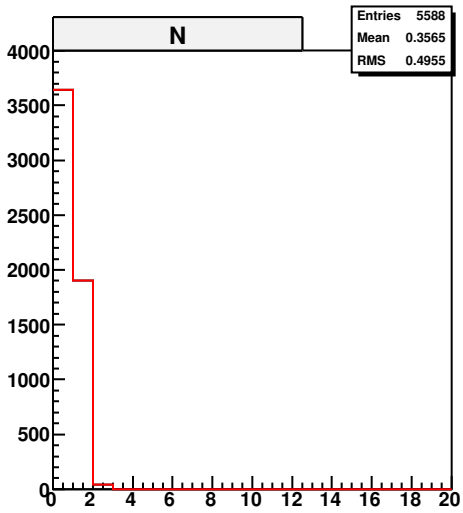


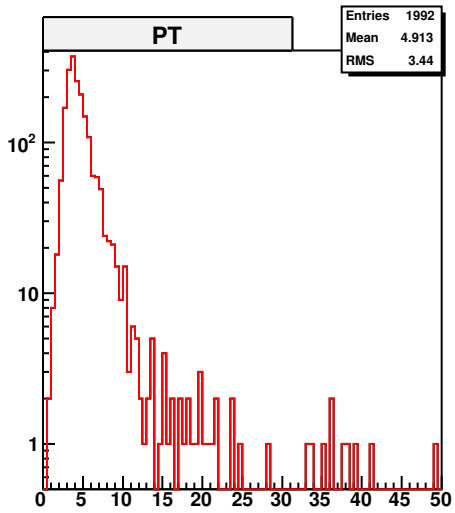


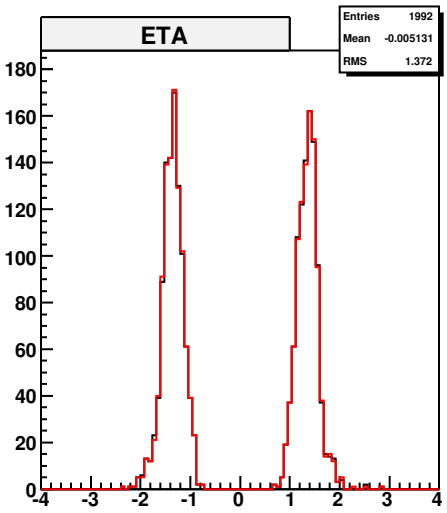


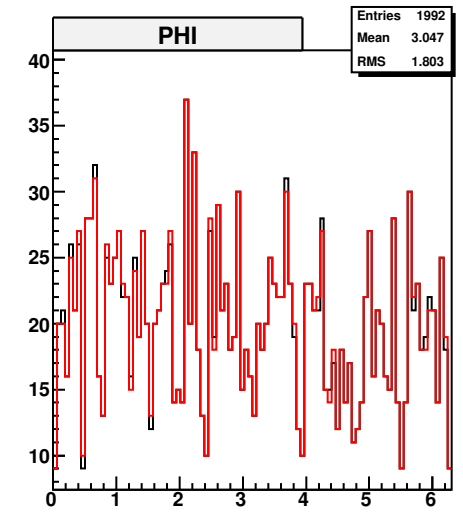


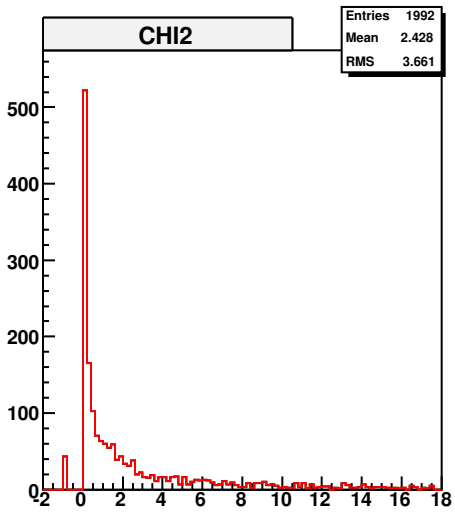
Muon Local Tracks (LooseFamus)

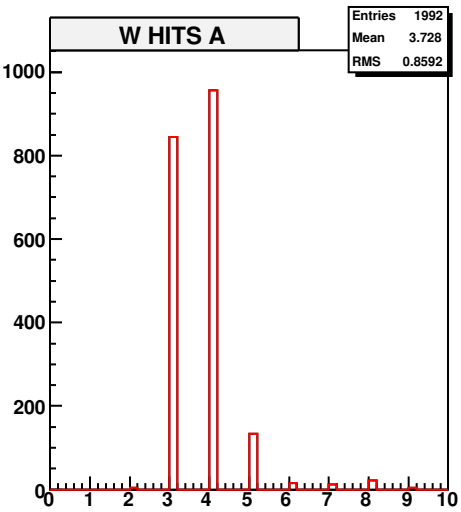


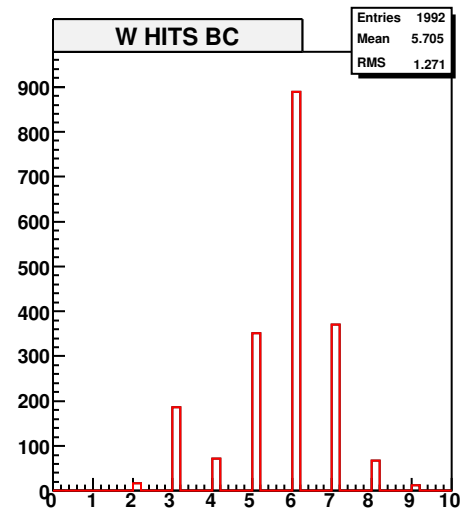


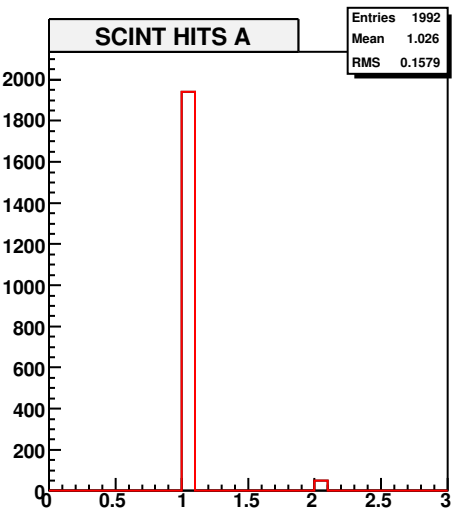


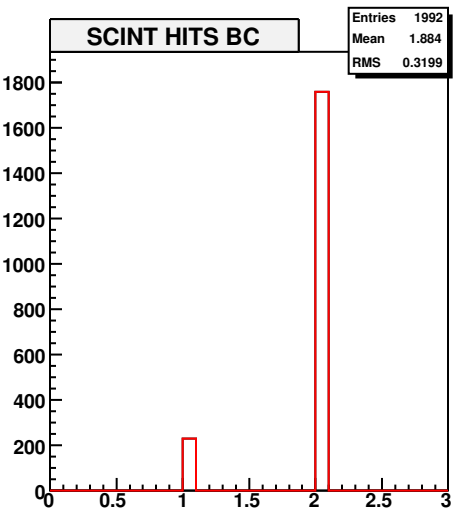




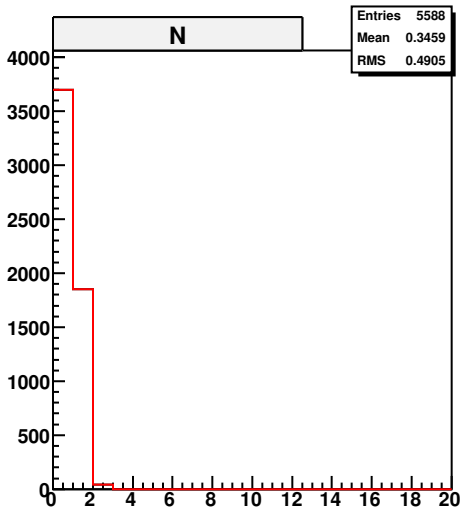


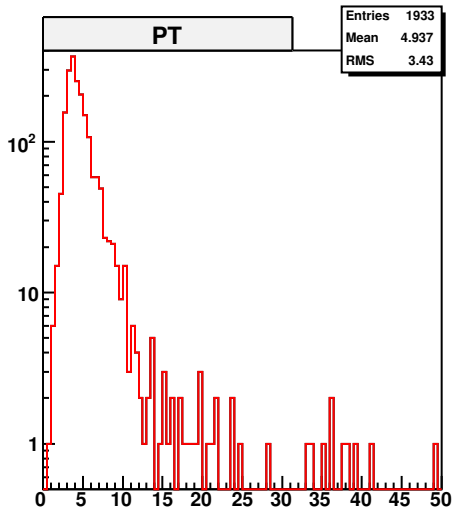


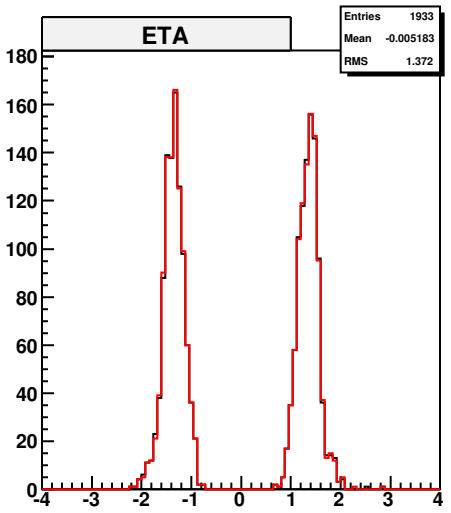


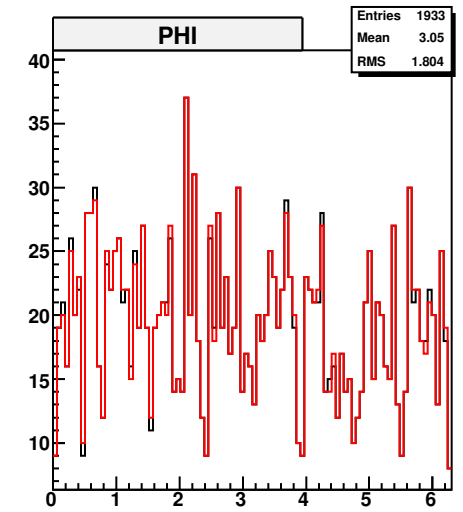


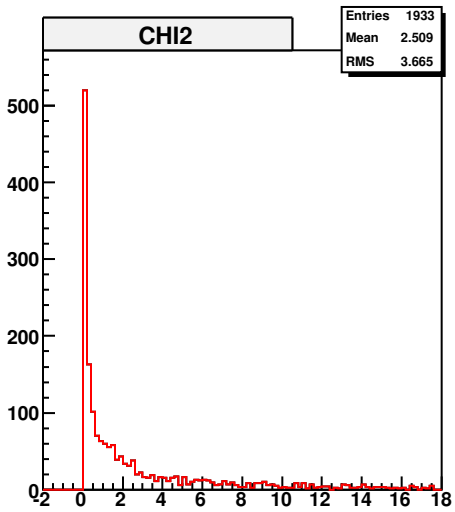
Muon Local Tracks (MediumFamus)

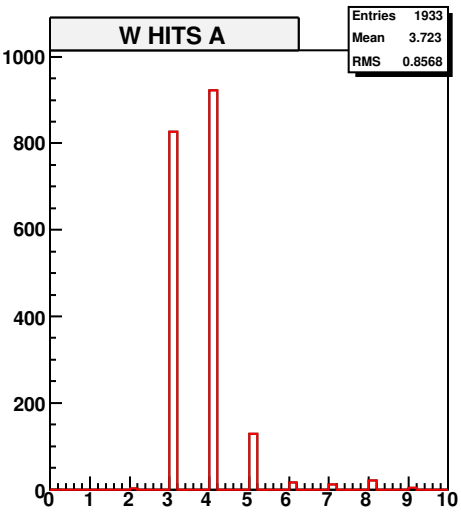


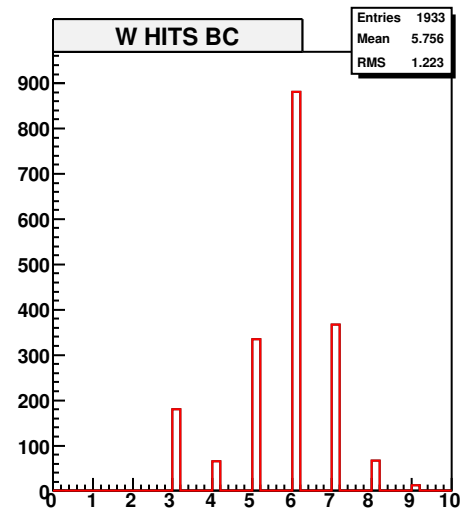


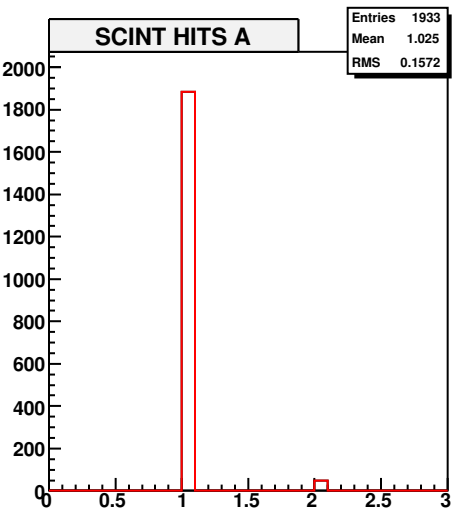


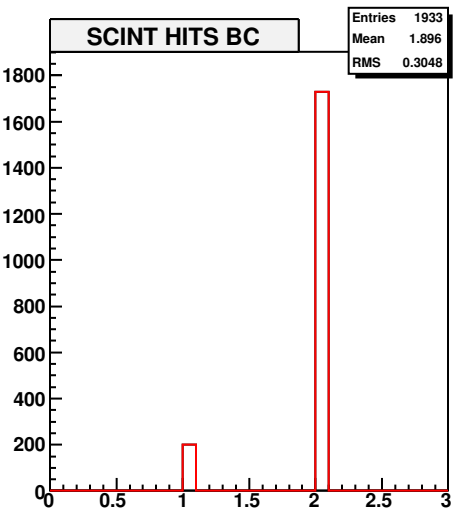




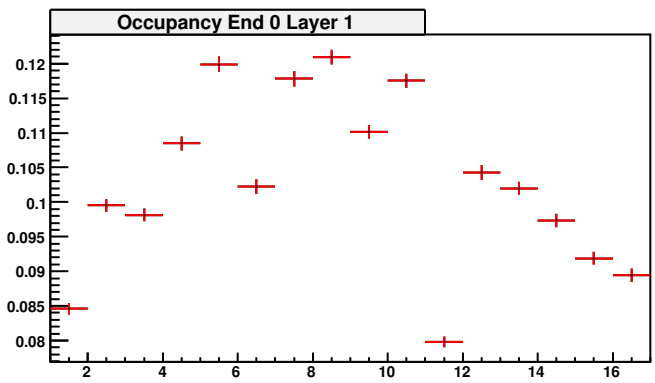


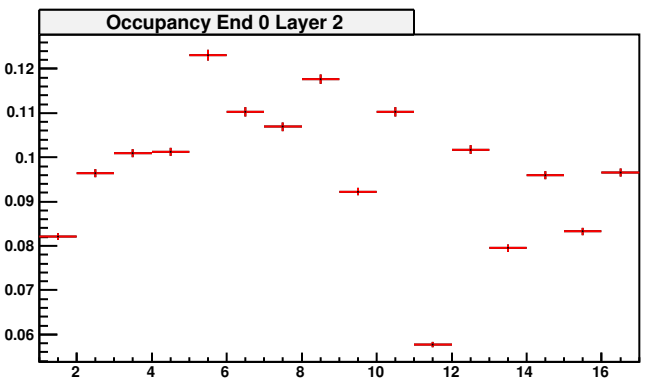


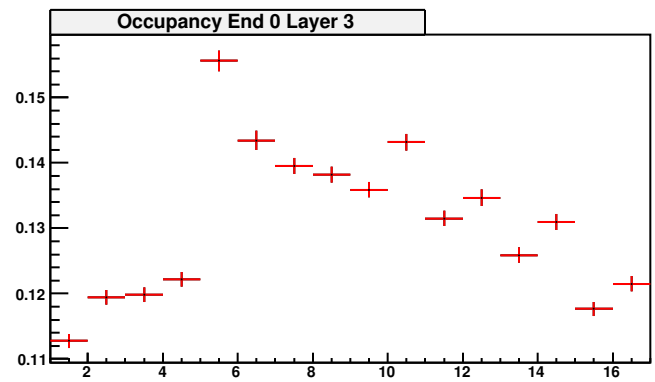


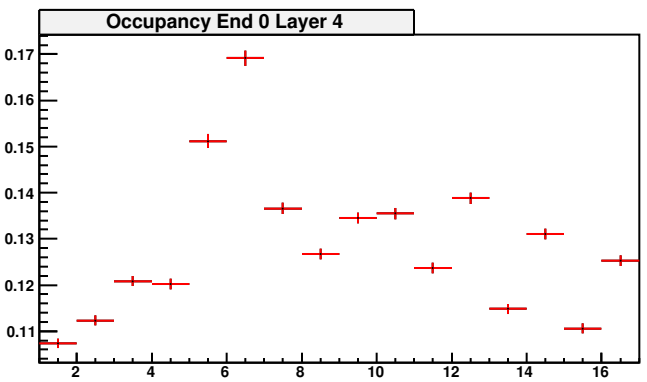


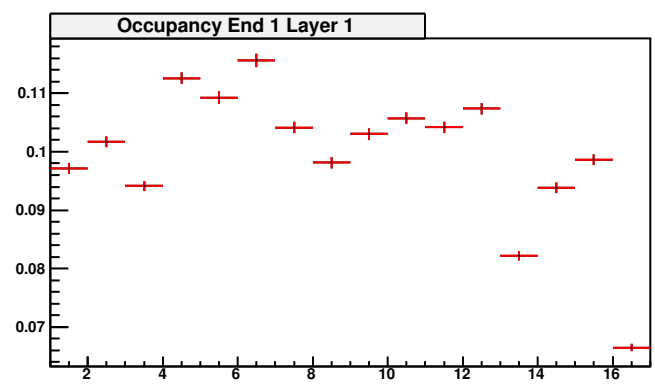
Muon Local Tracks (TightFamus)

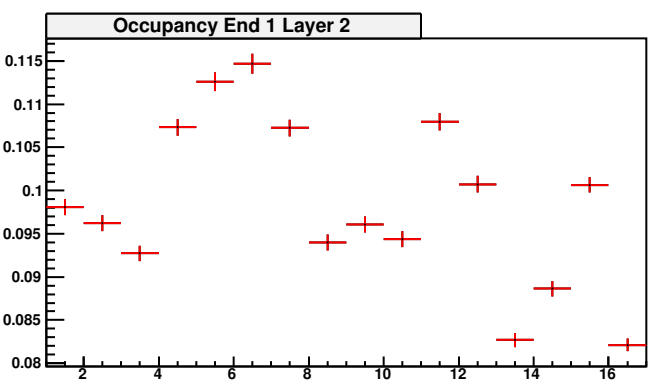


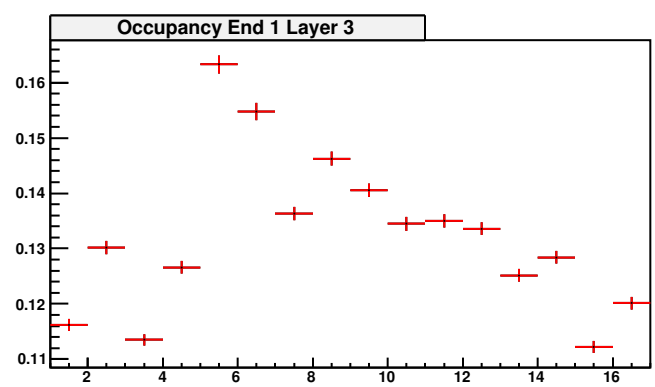


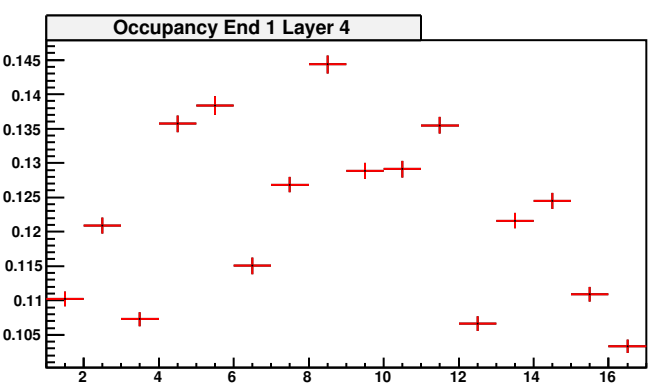




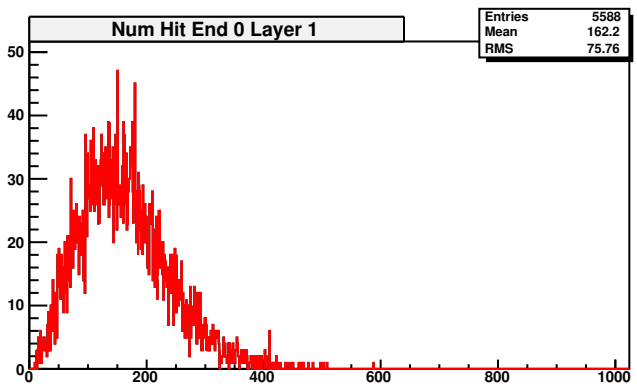


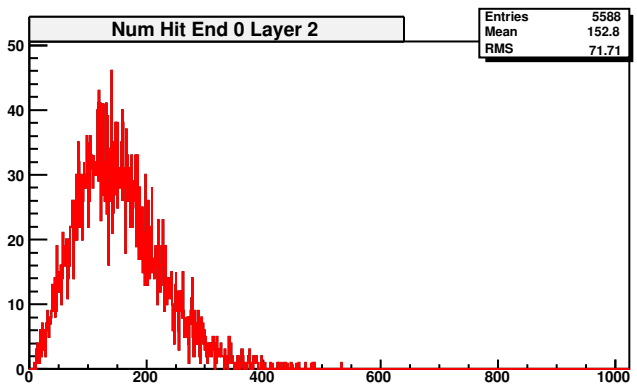


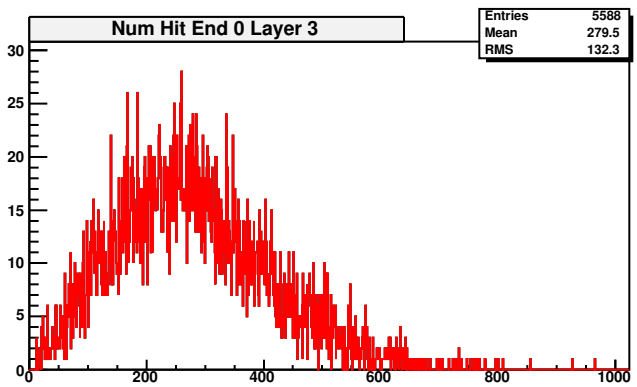


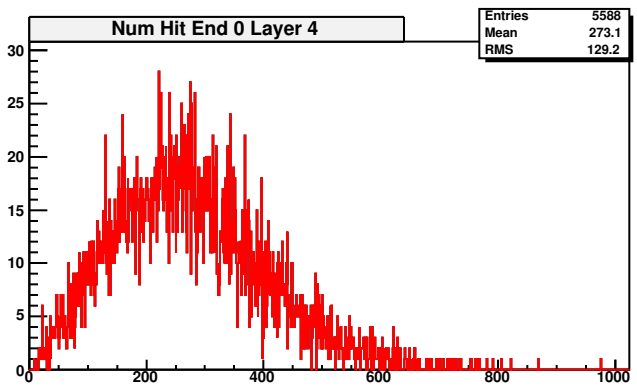


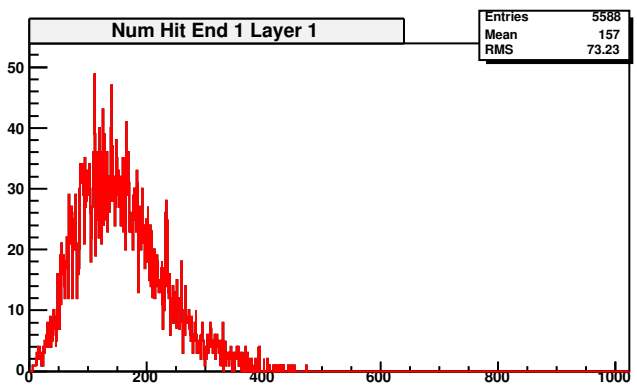
FPS Hit Occupancy (All)

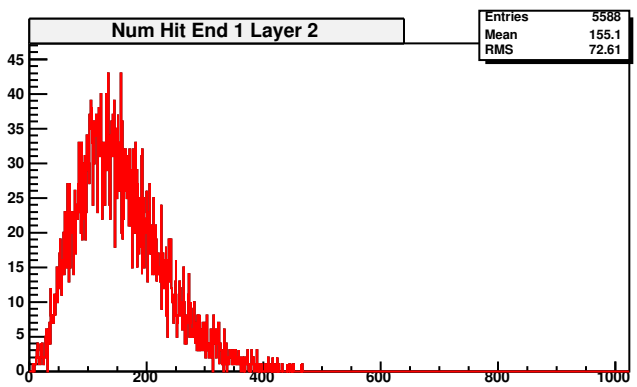


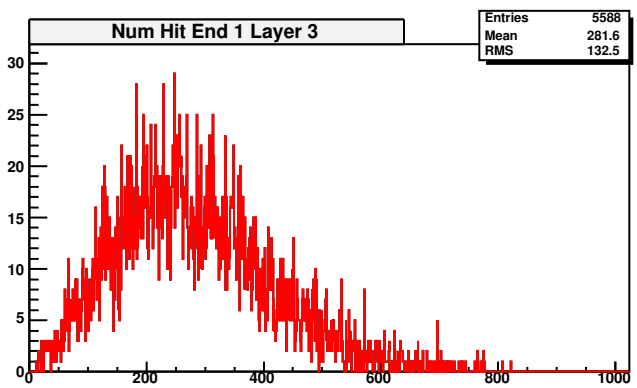


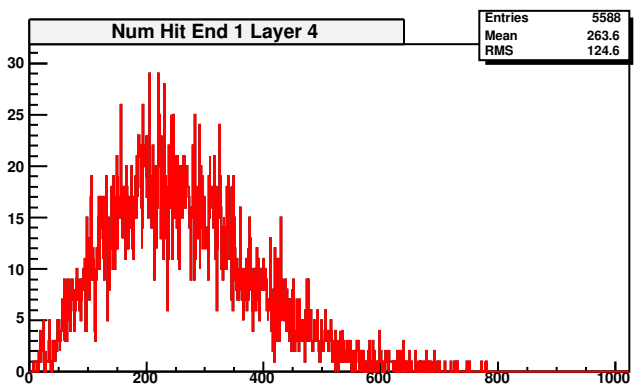












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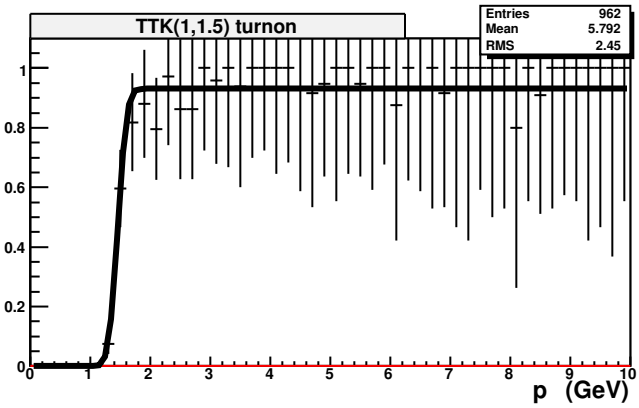

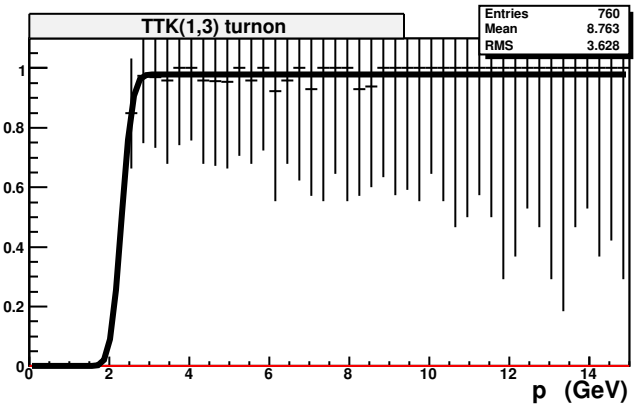

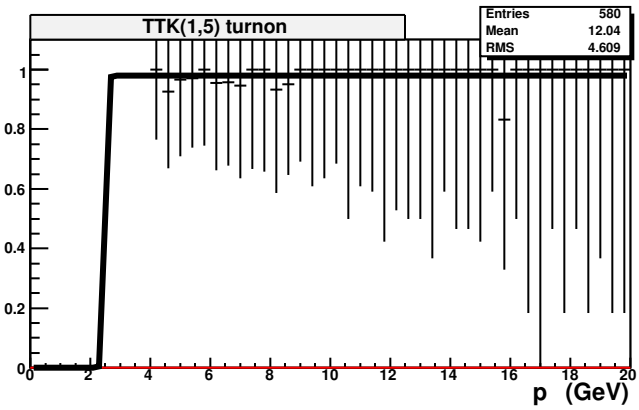

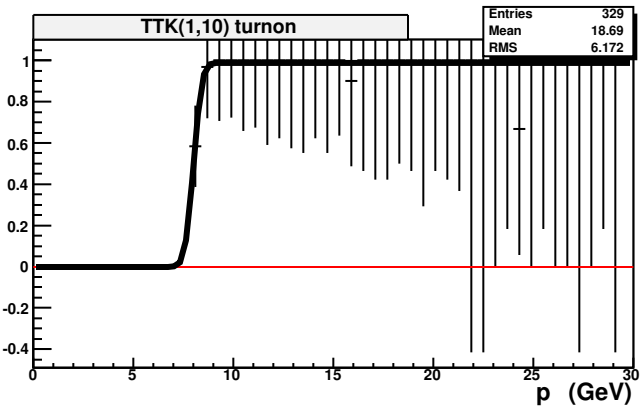

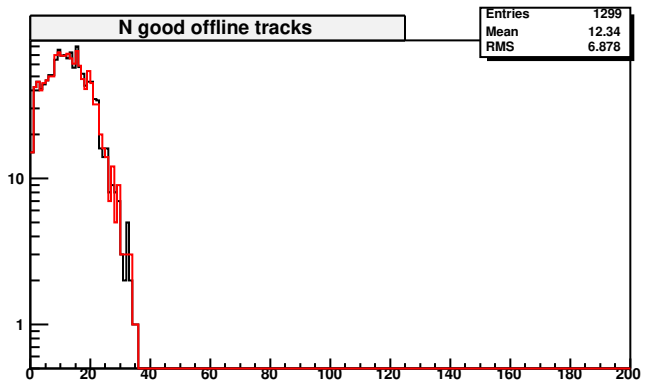

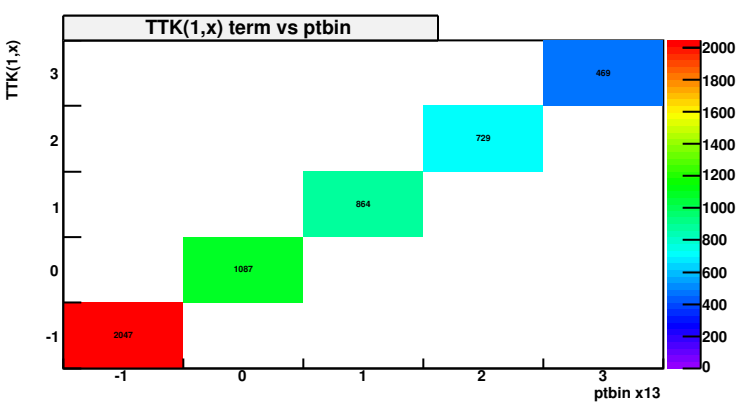

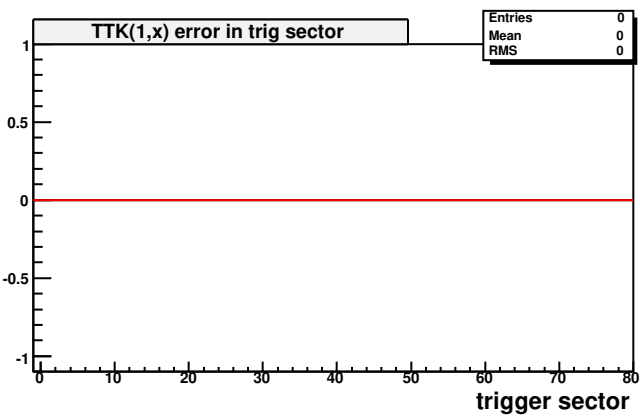

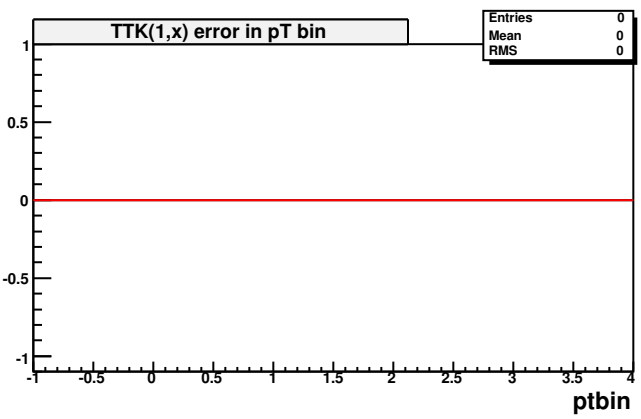

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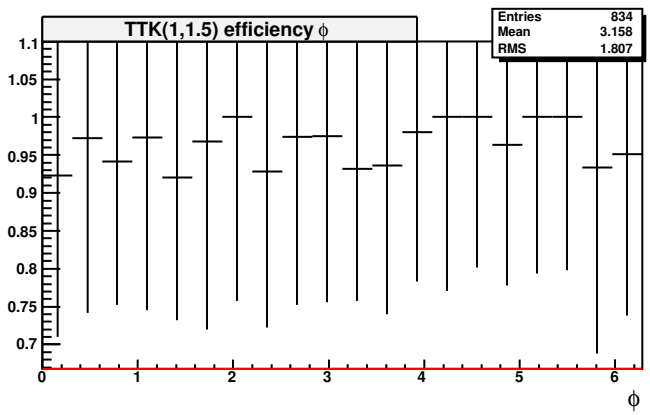

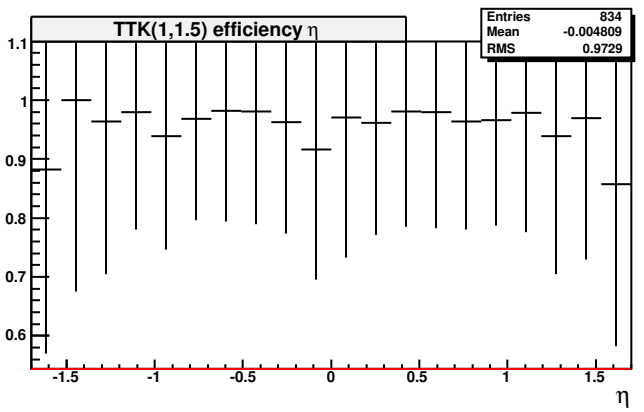

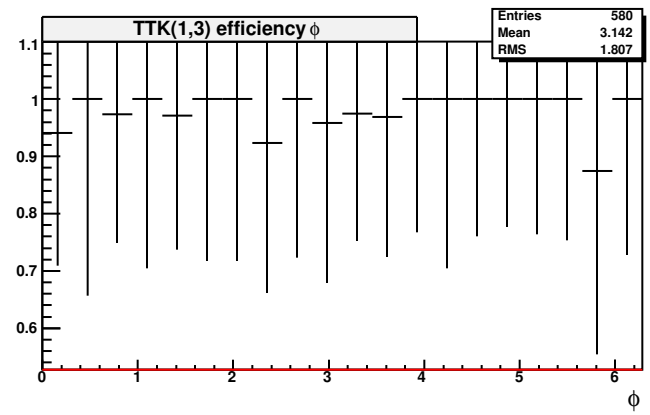

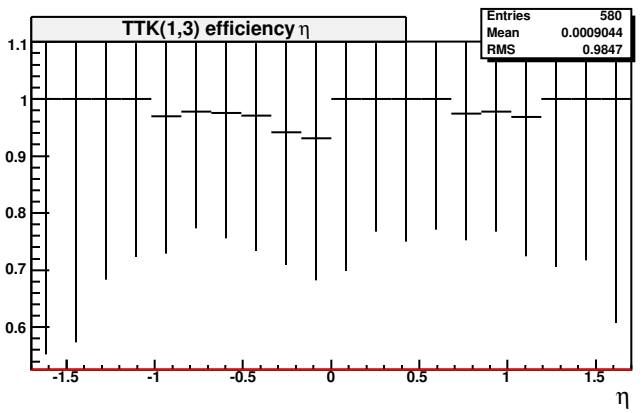

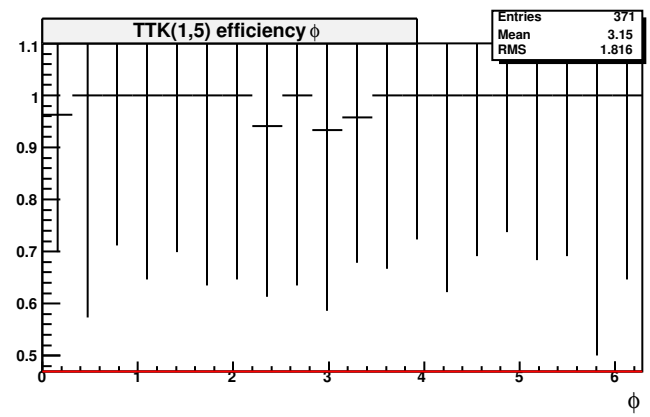

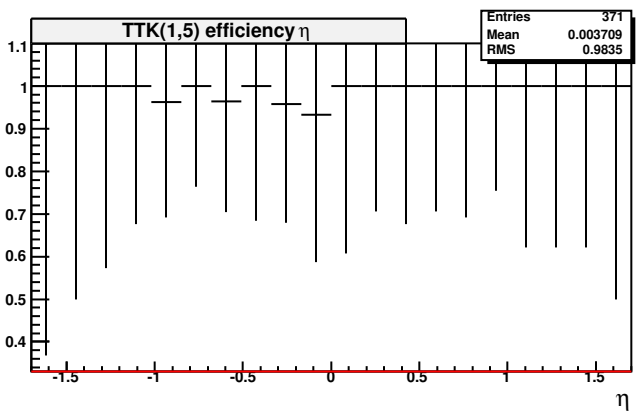

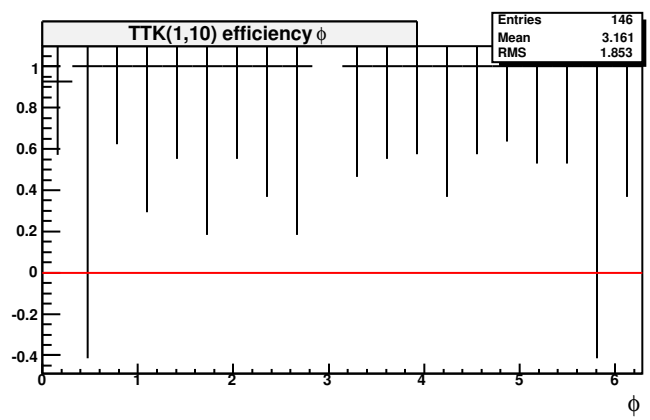

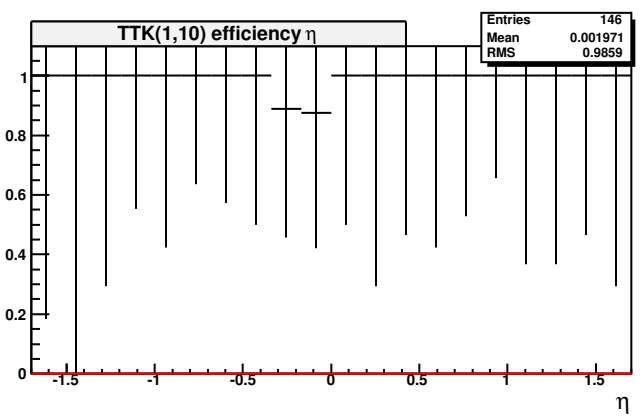

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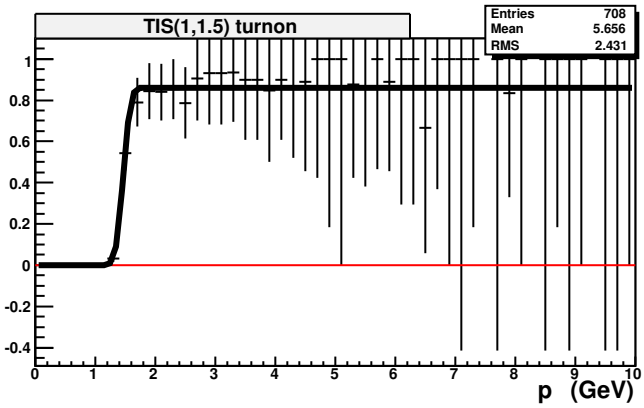

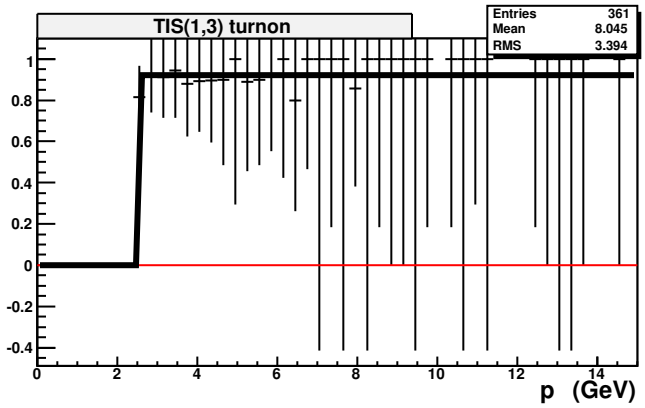

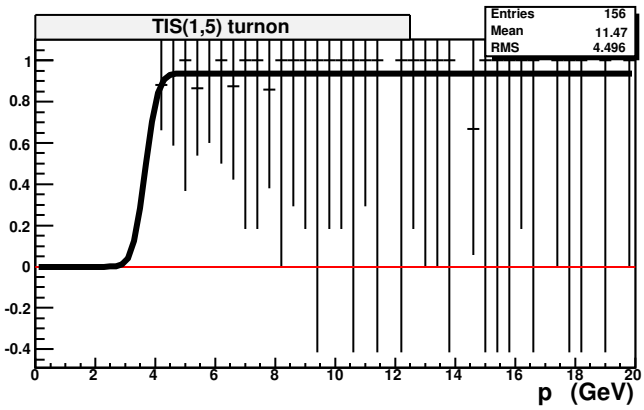

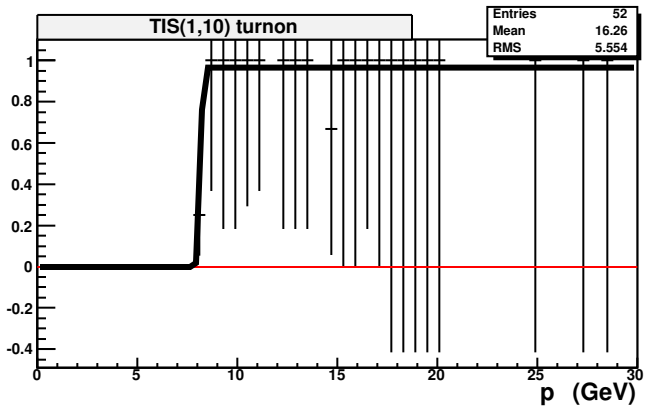

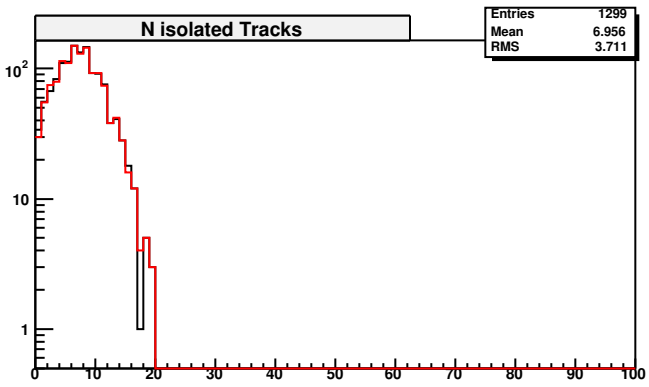

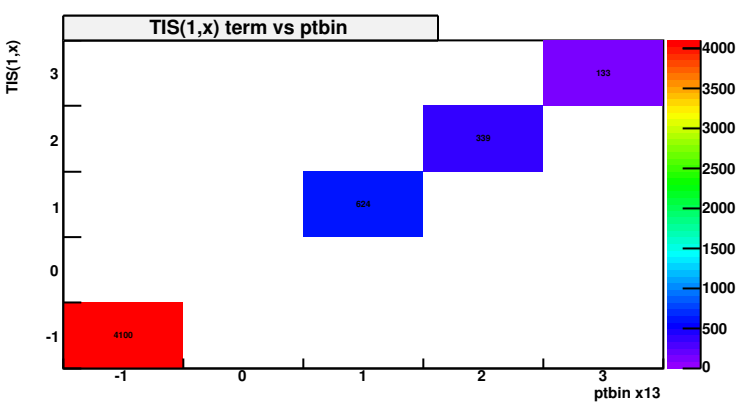

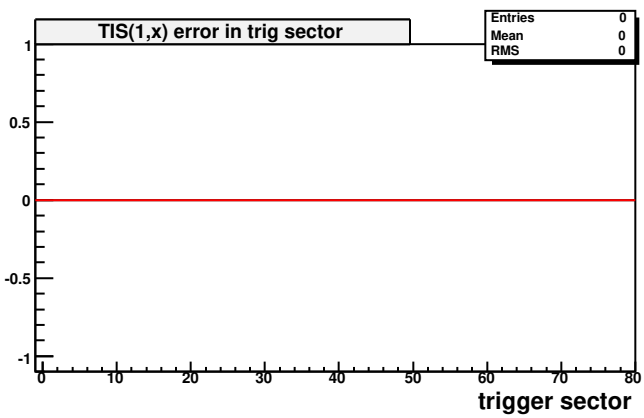

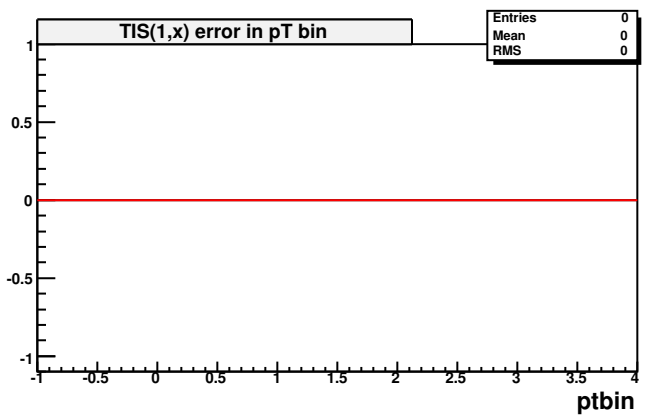

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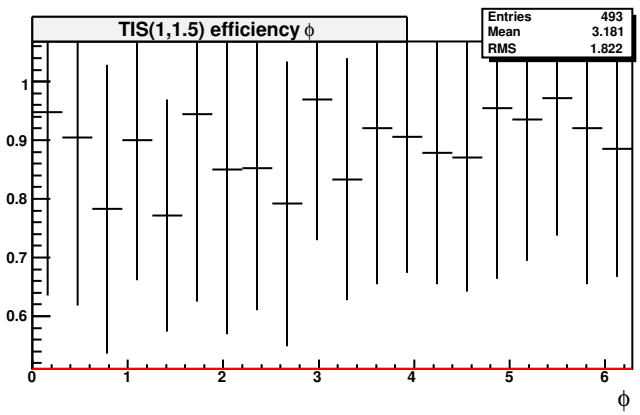

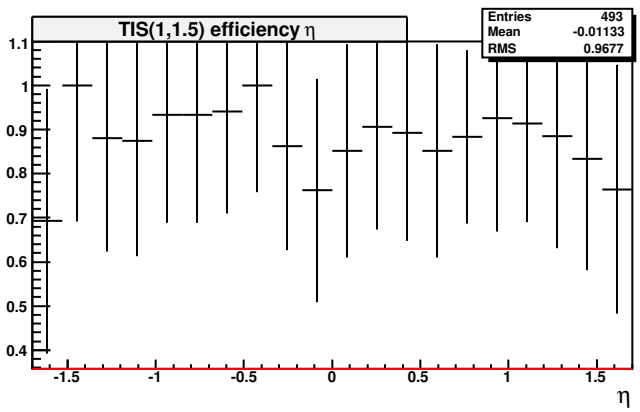

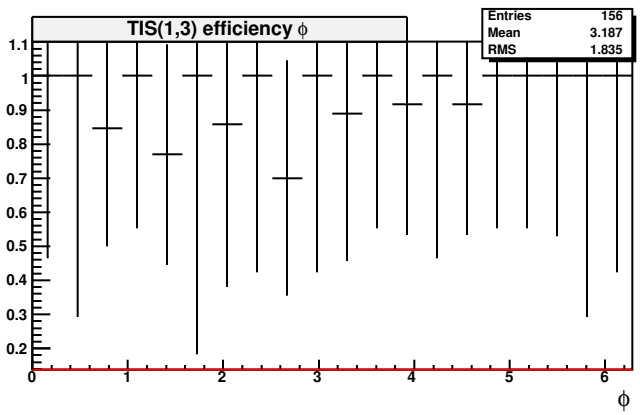

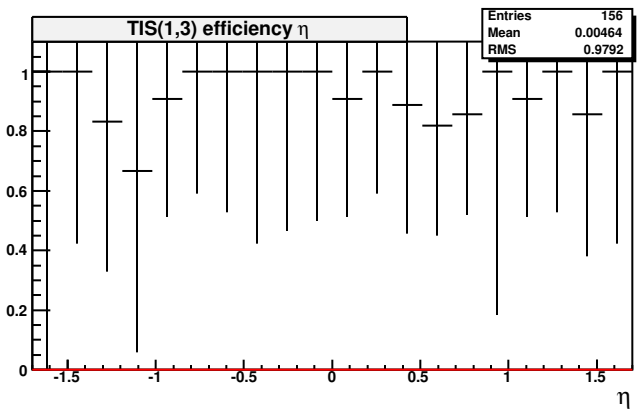

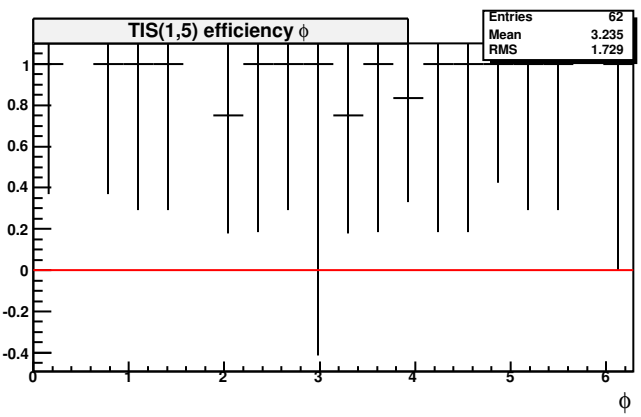

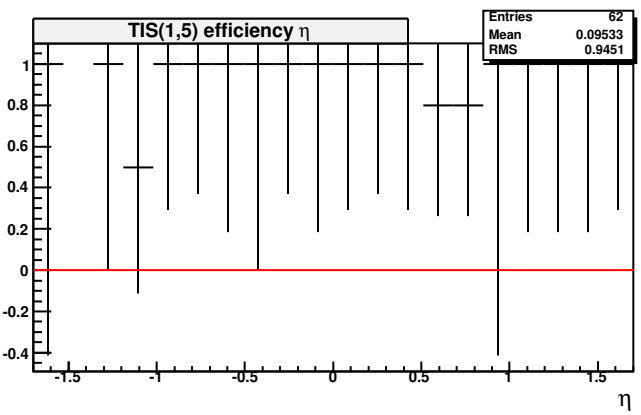

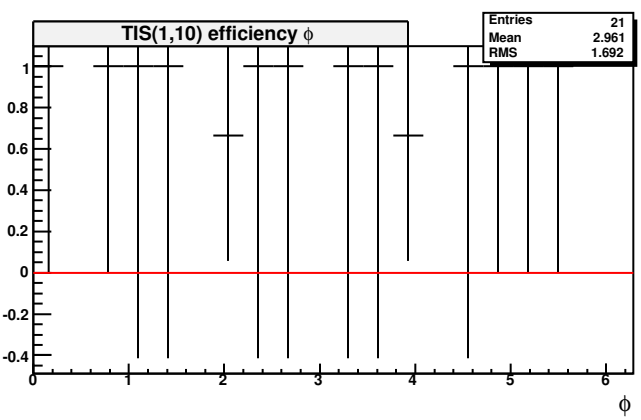

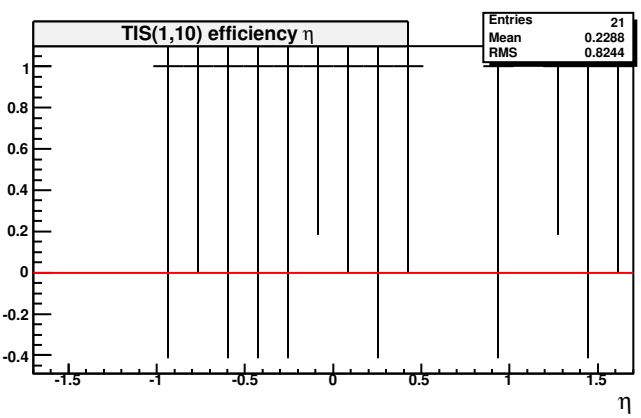

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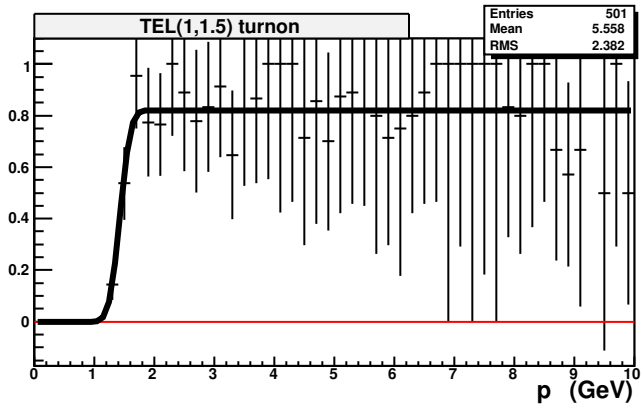

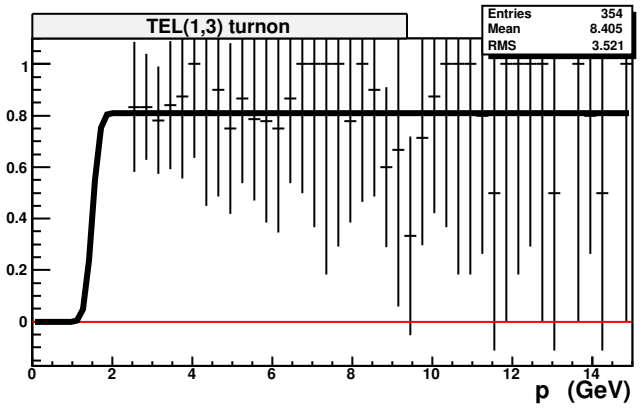

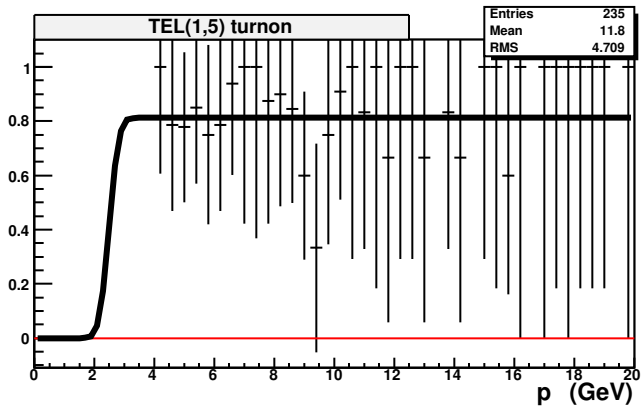

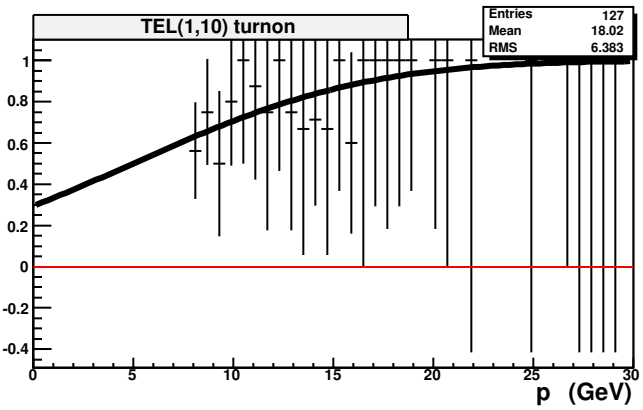

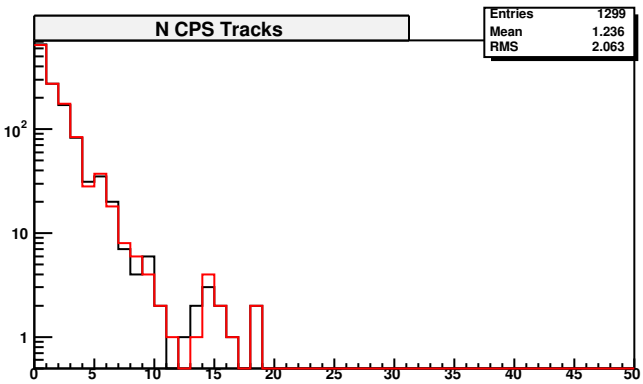

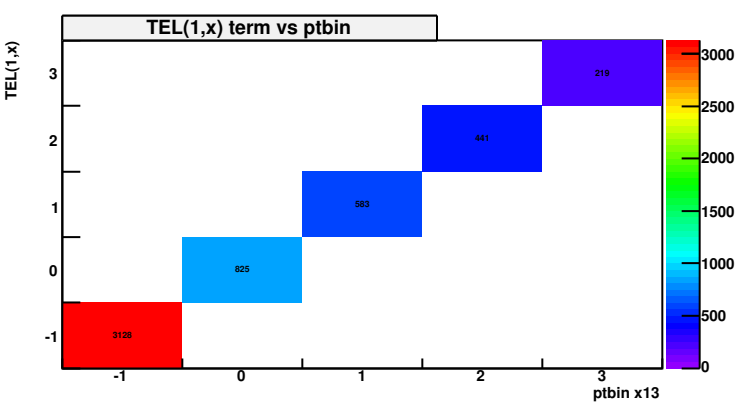

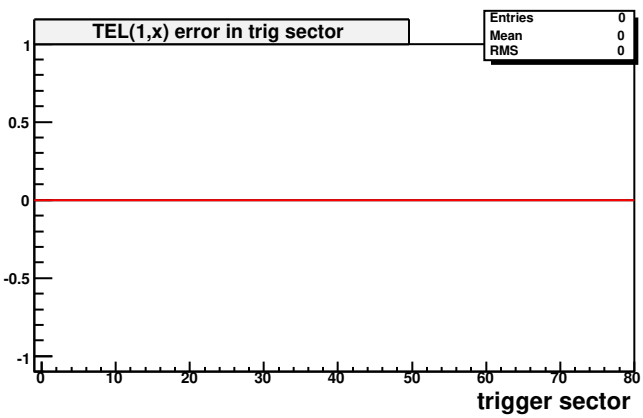

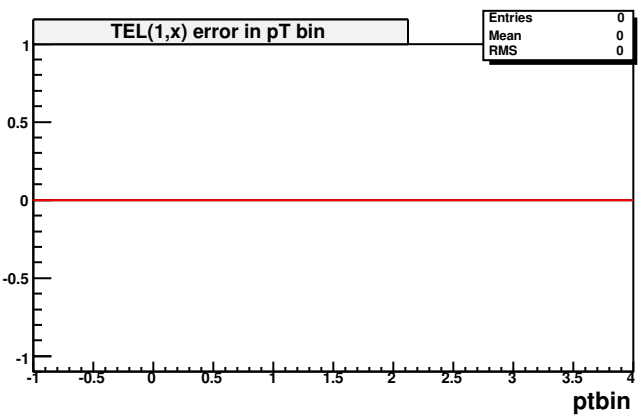

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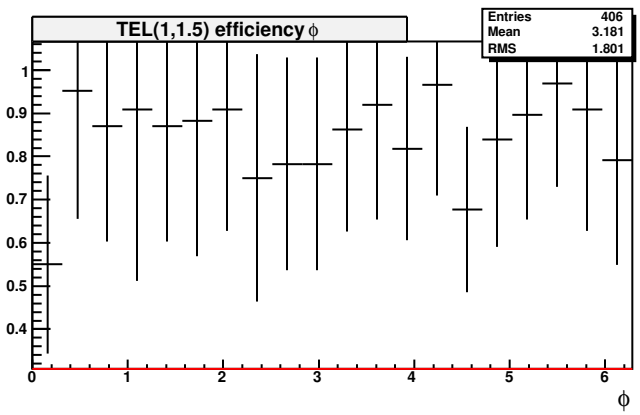

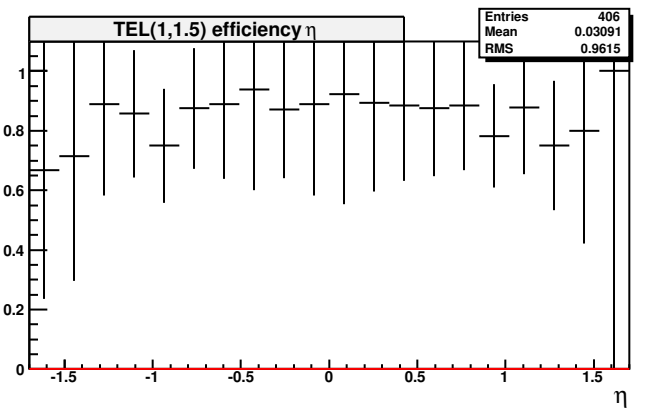

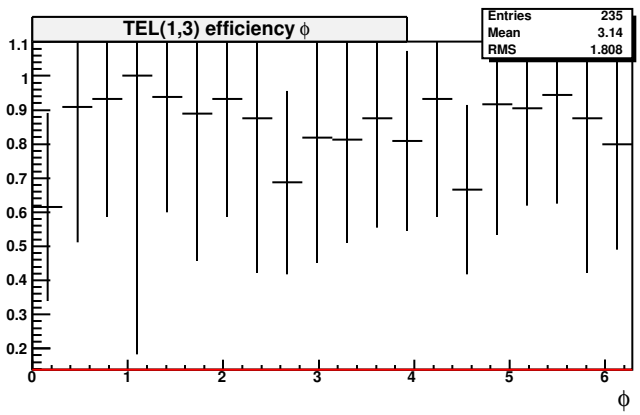

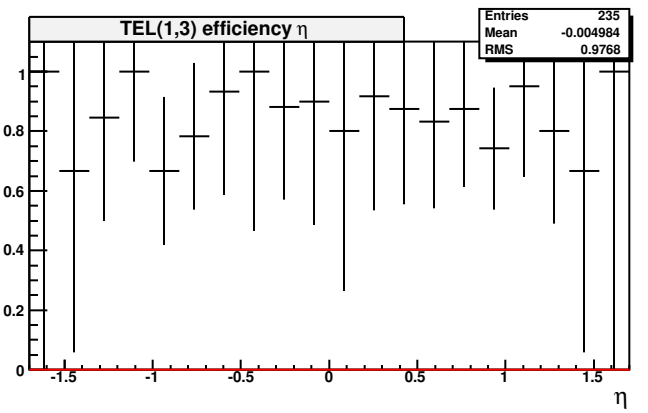

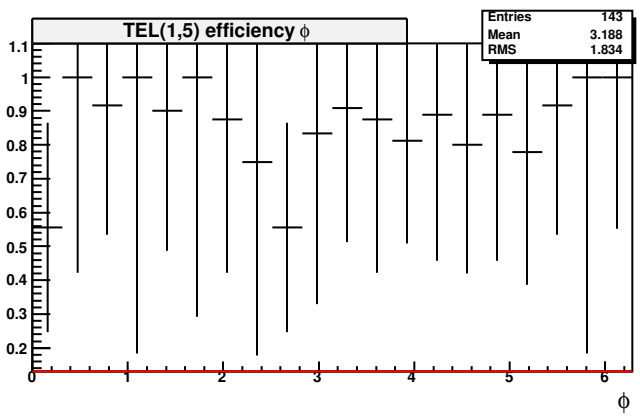

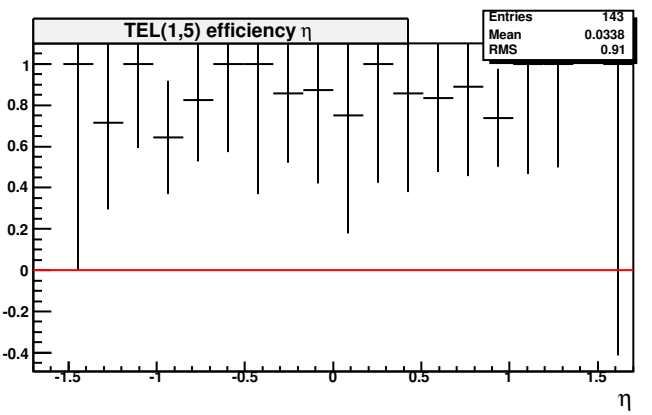

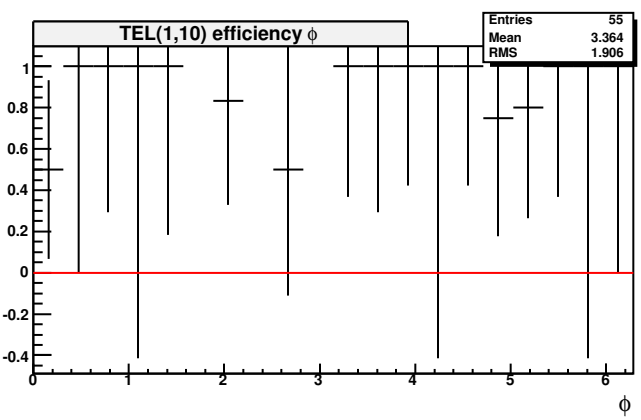

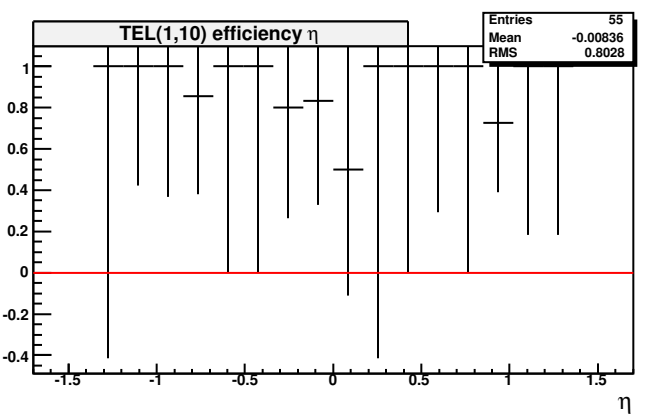

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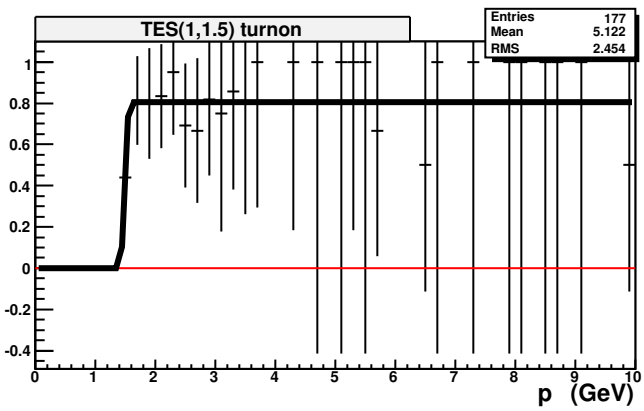
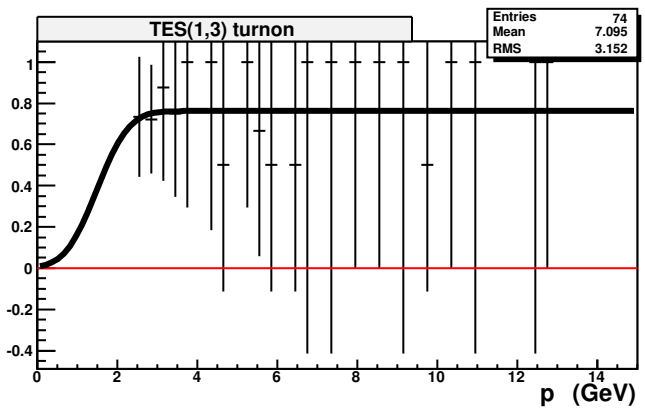
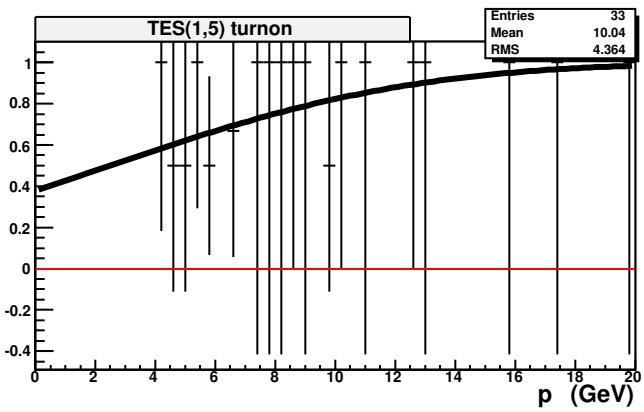
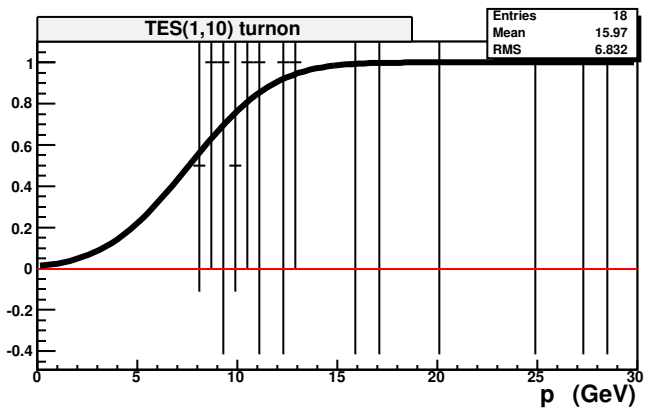
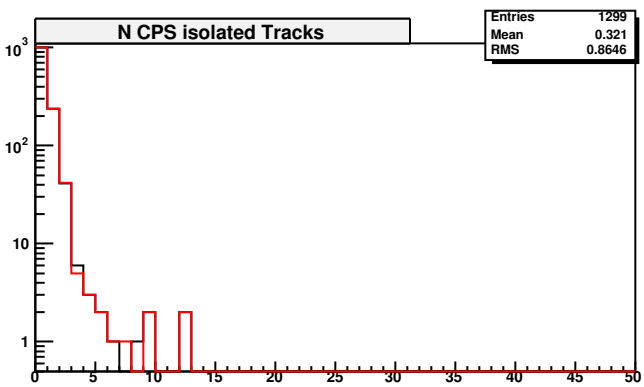
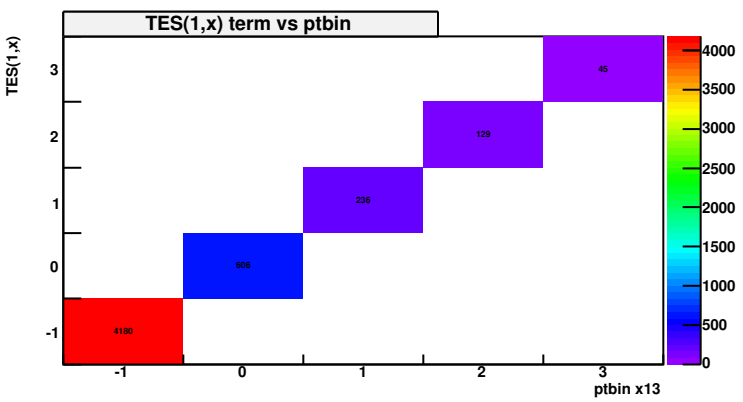


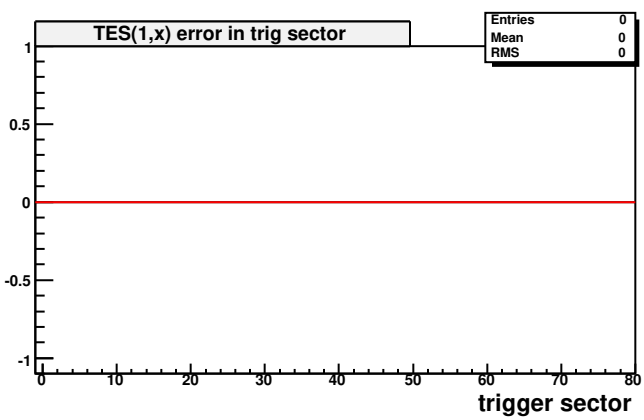


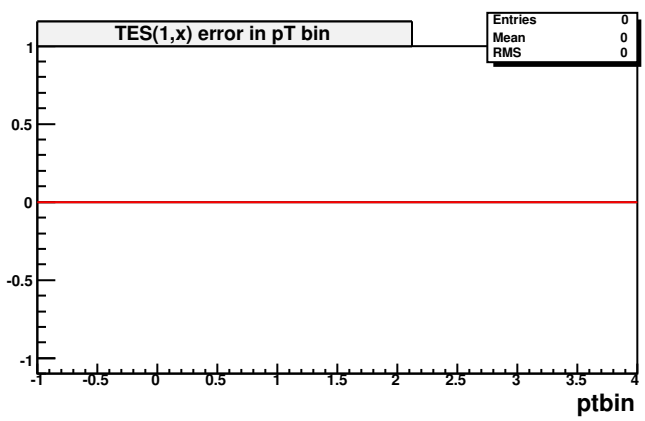




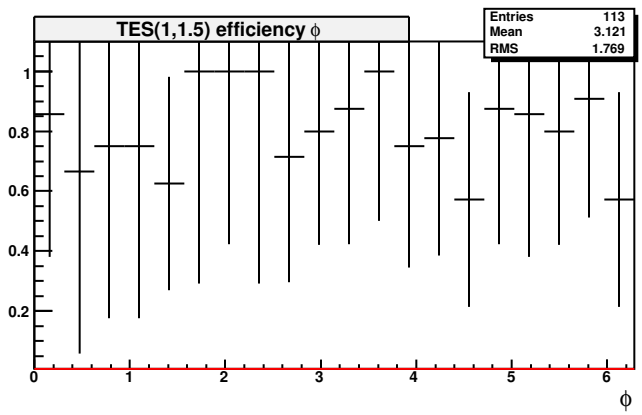


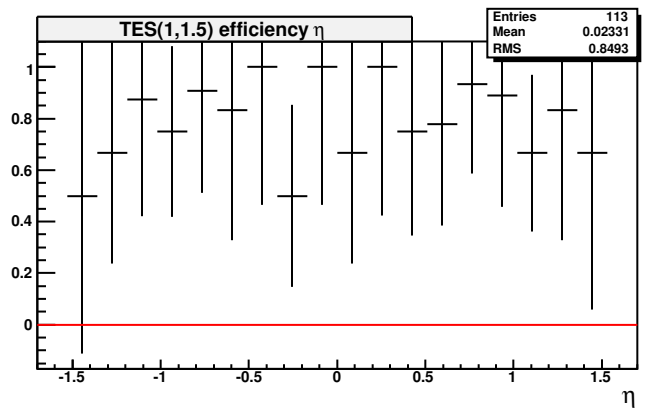


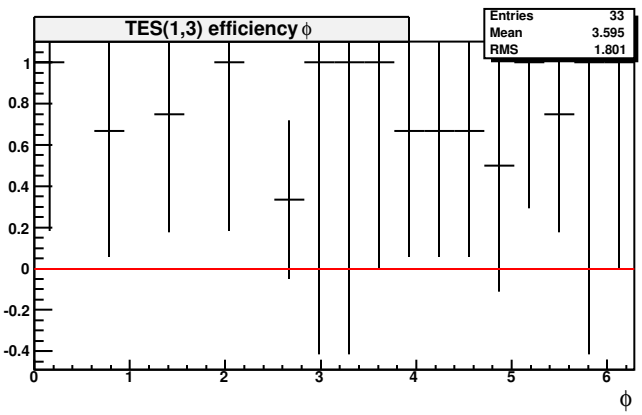


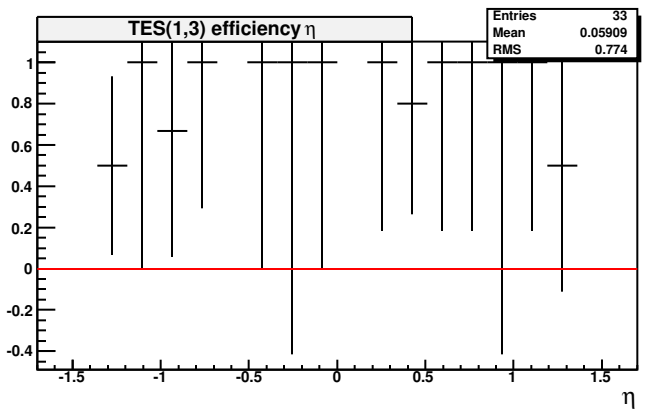


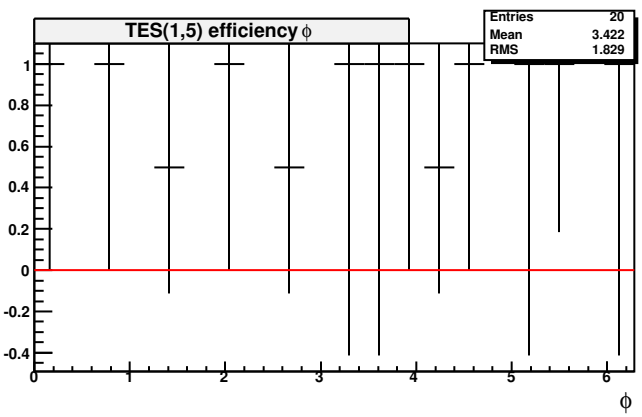
TES (L1CTT All)

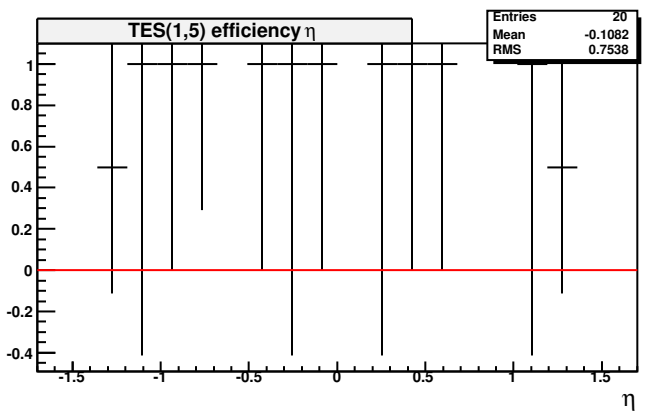


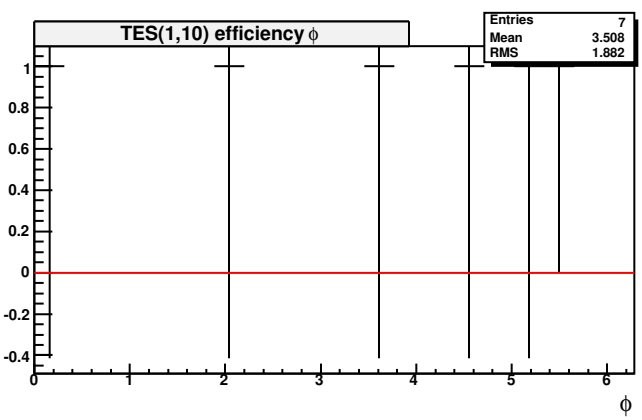


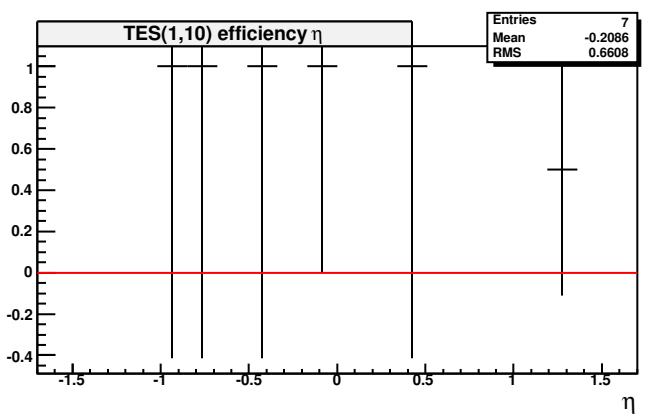




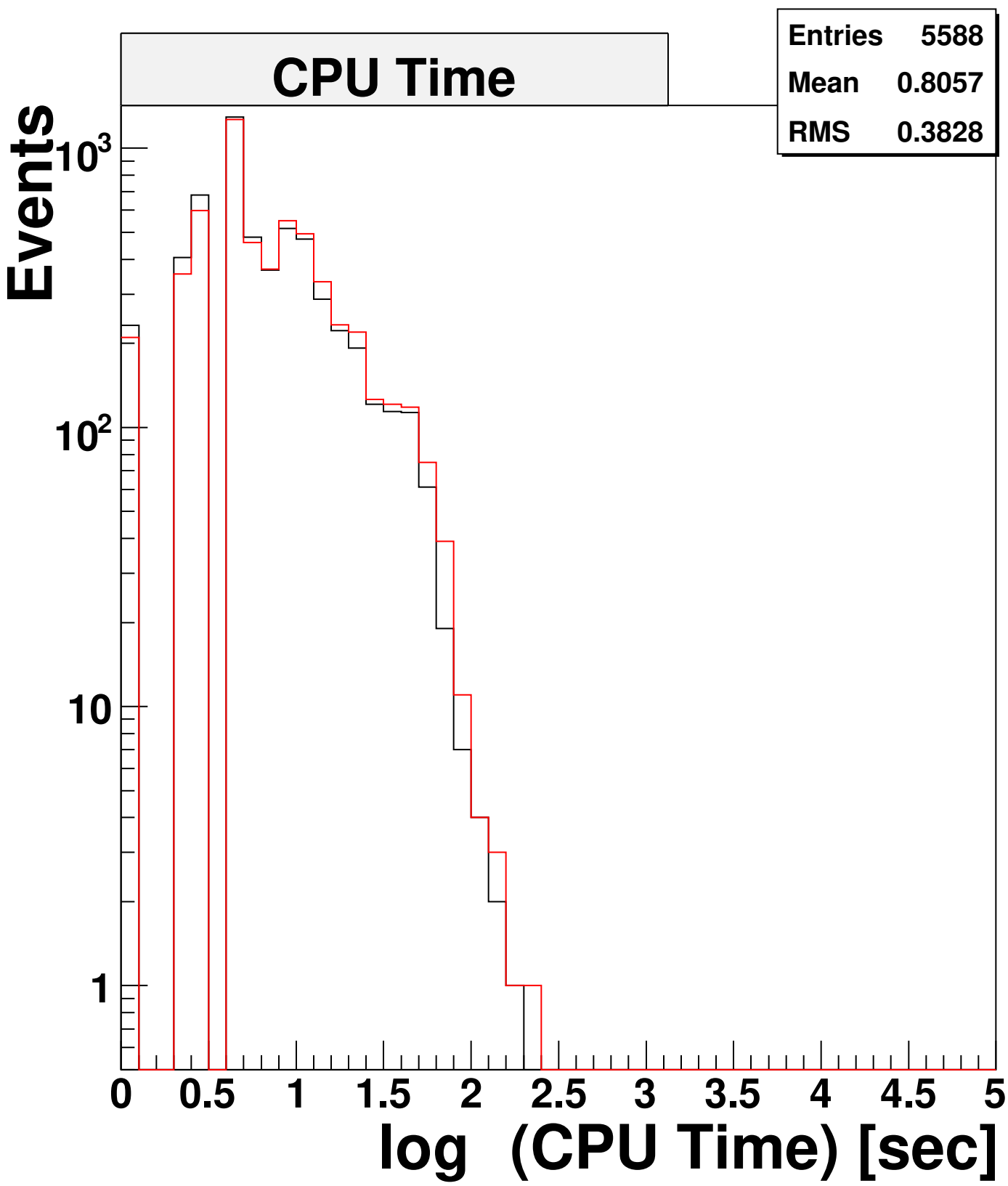








TES phi/eta (L1CTT All)



RECO Performance (Timing)