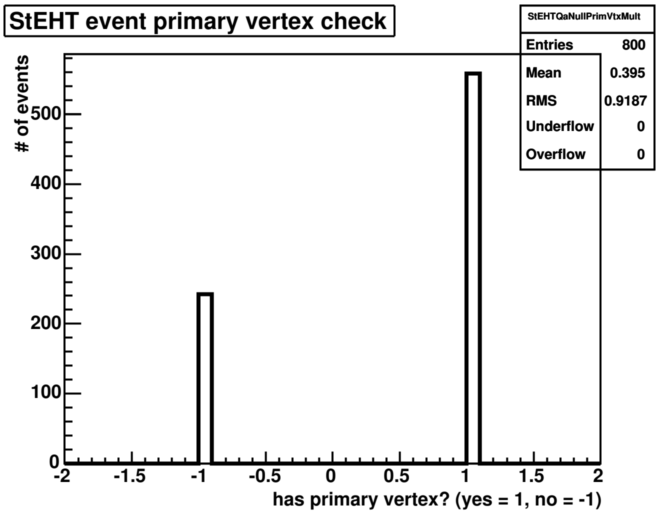
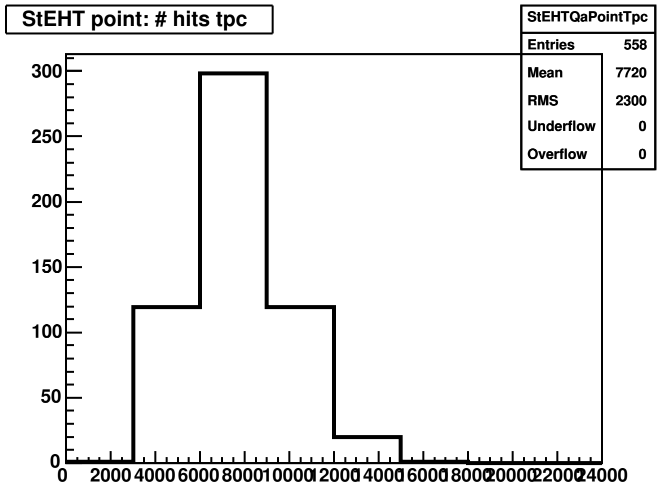
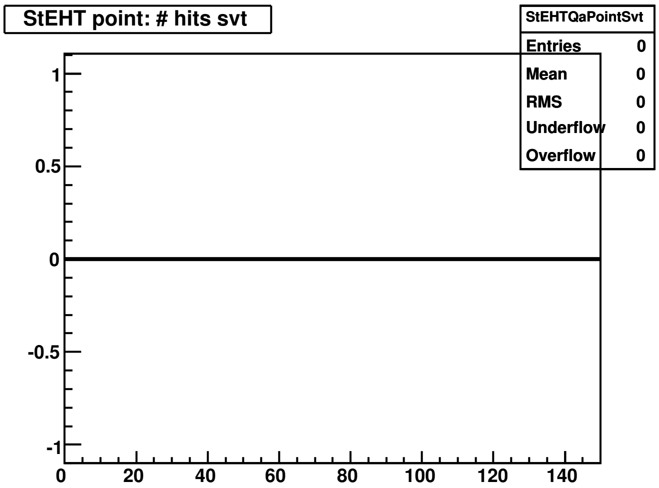
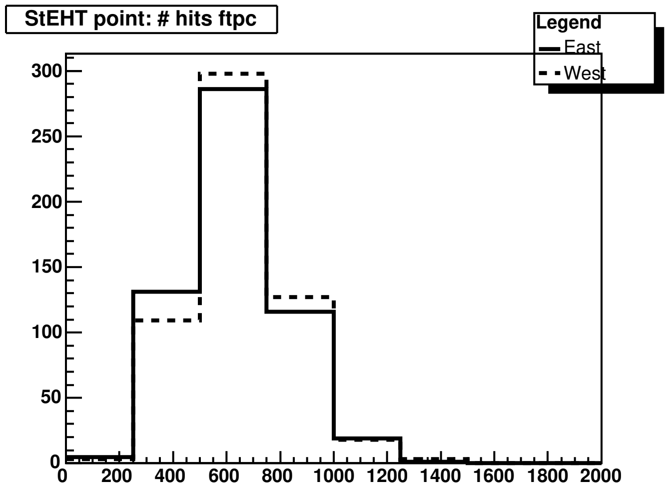
st_physics_7075188_raw_1030004.hist.root

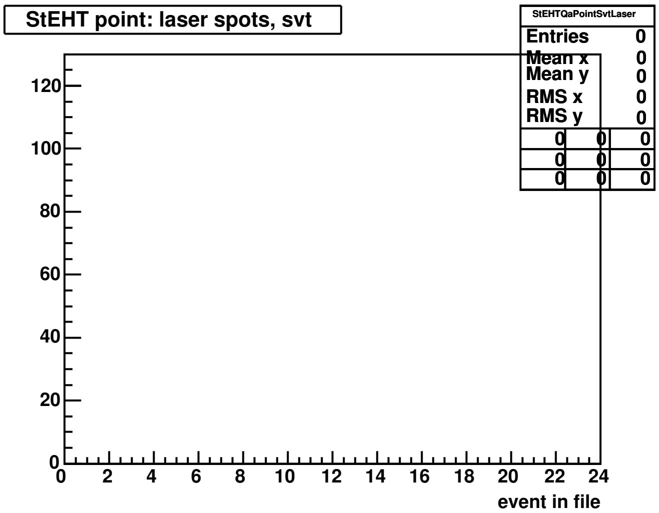
High Tower Hists

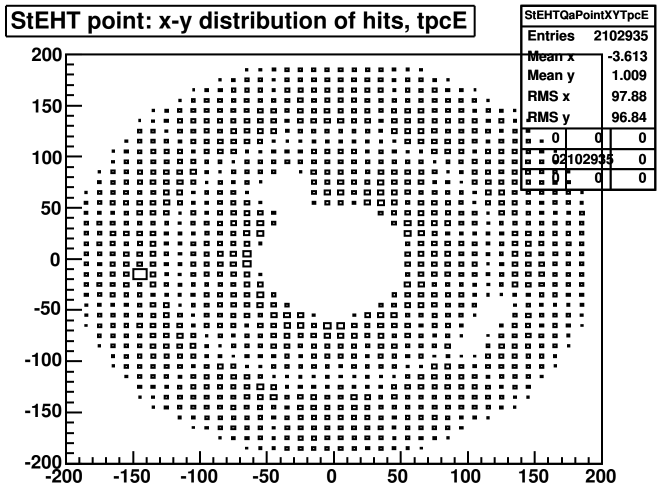












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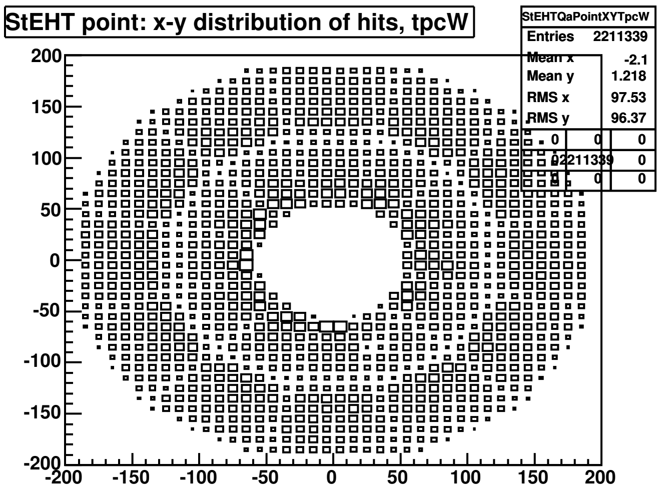
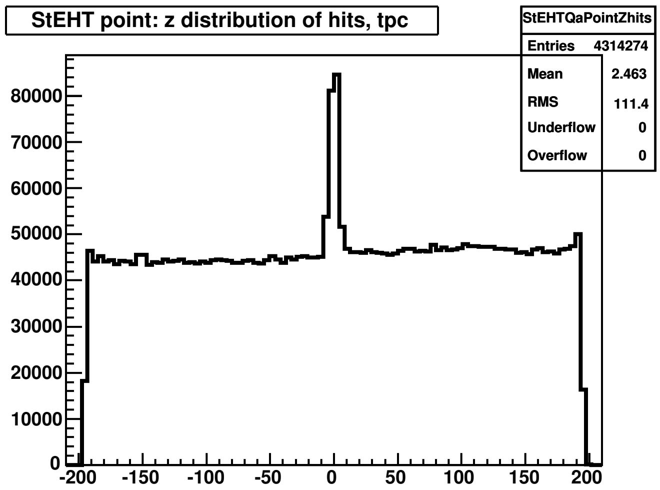
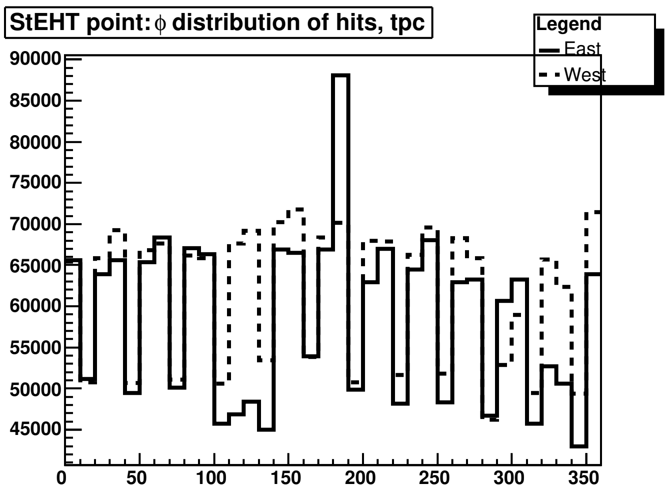
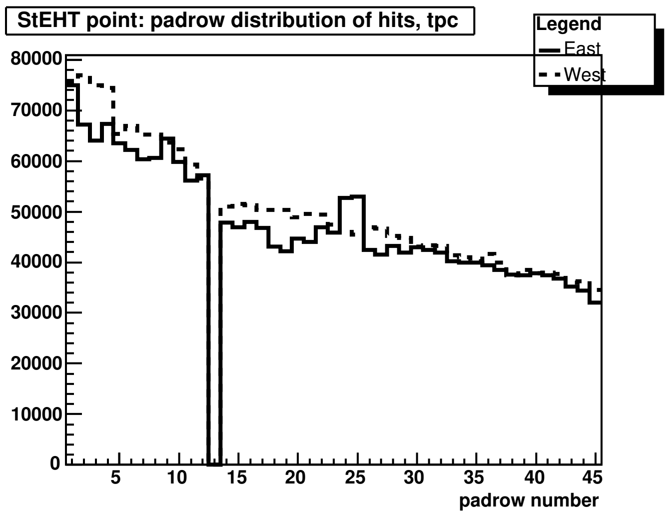
st_physics_7075188_raw_1030004.hist.root

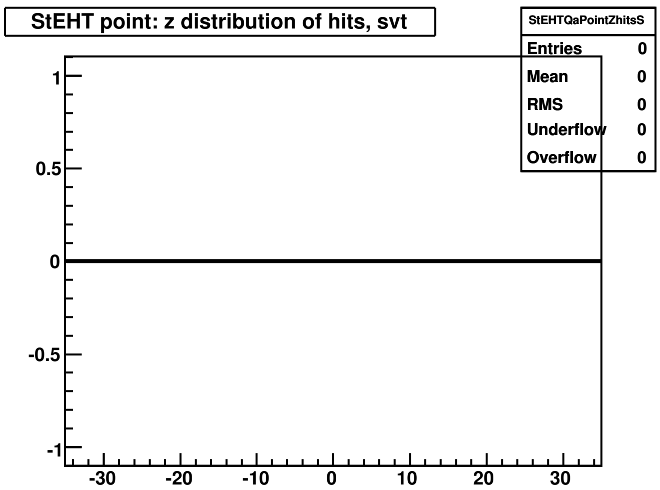
High Tower Hists

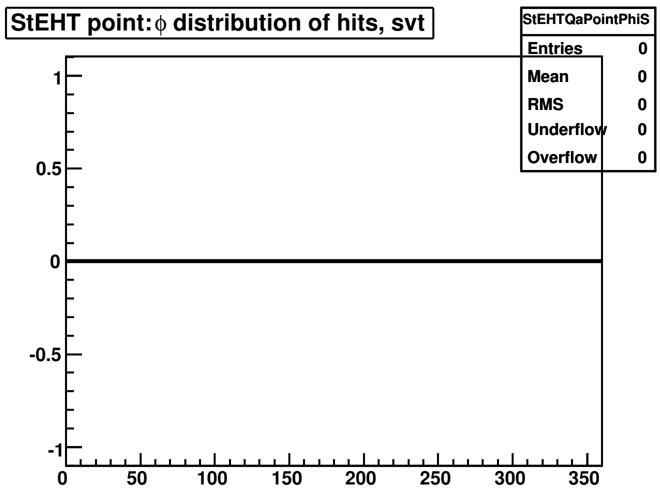


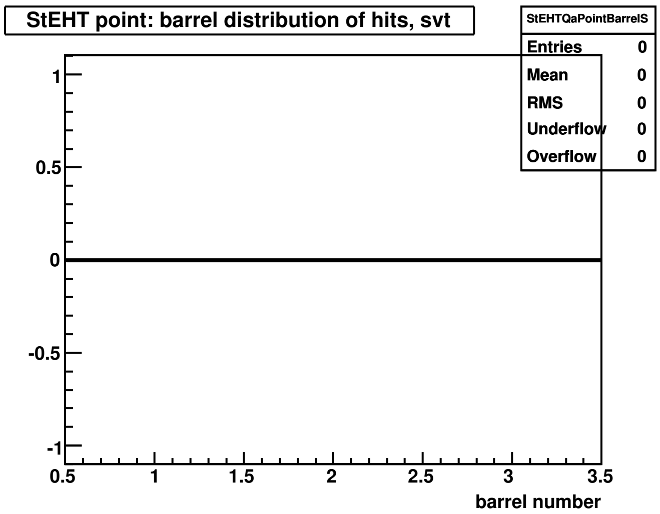


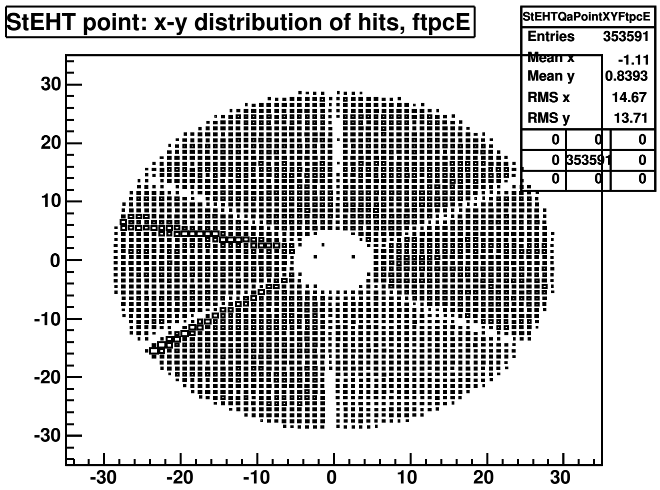


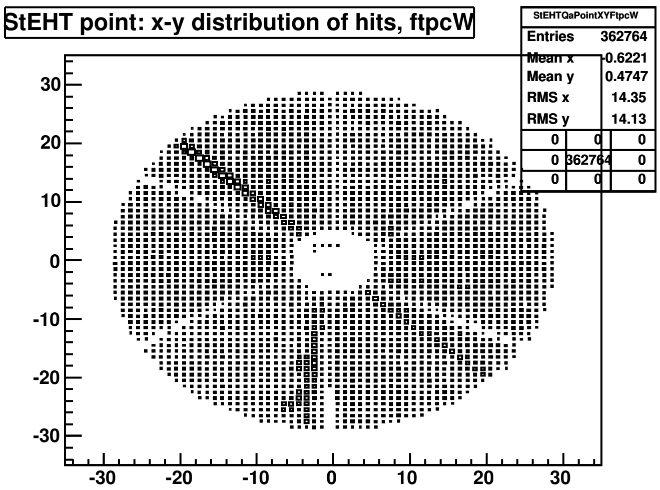


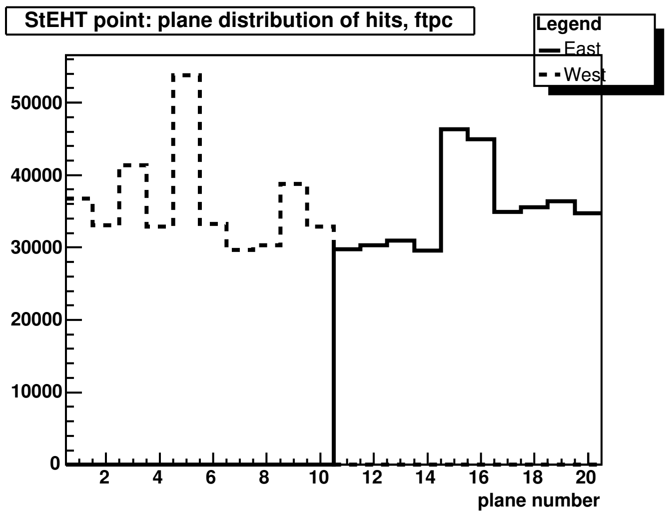


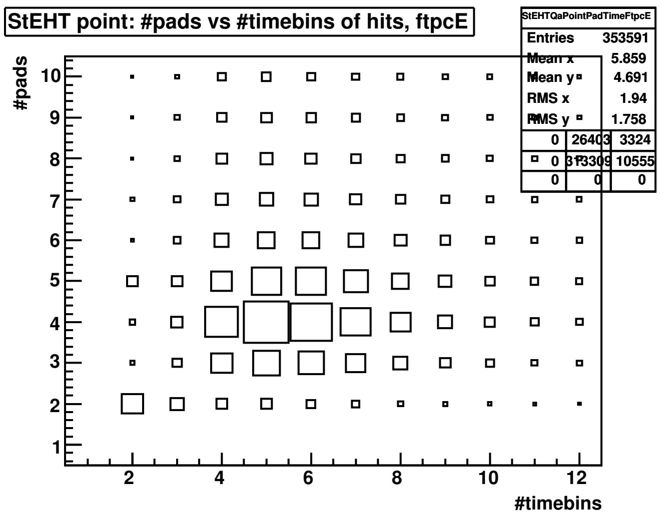


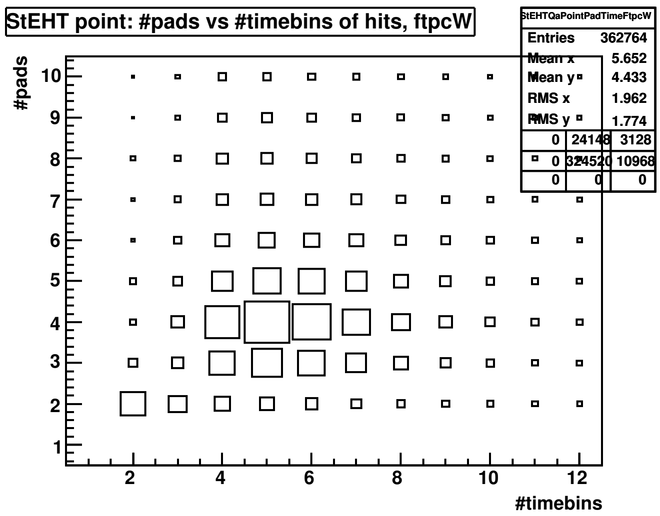

StEHT point: barrel distribution of hits, svt
StEHTQaPointBarrelS
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
barrel number

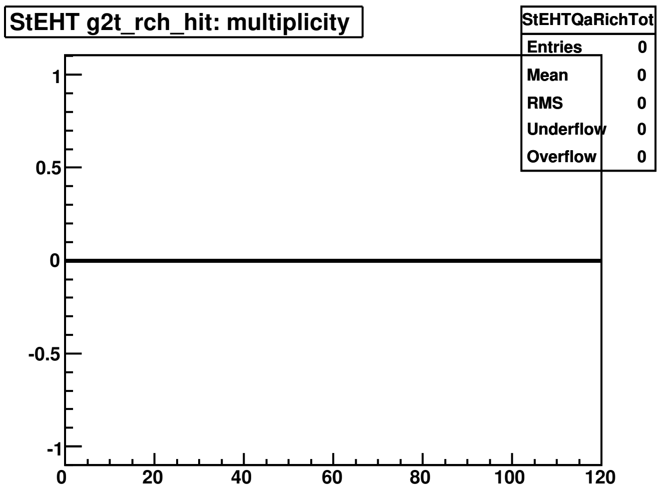

StEHT point: x-y distribution of hits, ftpcE
StEHTQaPointXYFtpcE
Entries 353591
Mean x -1.11
Mean y 0.8393
RMS x 14.67
RMS y 13.71
0 0 0
0 353591 0
0 0 0

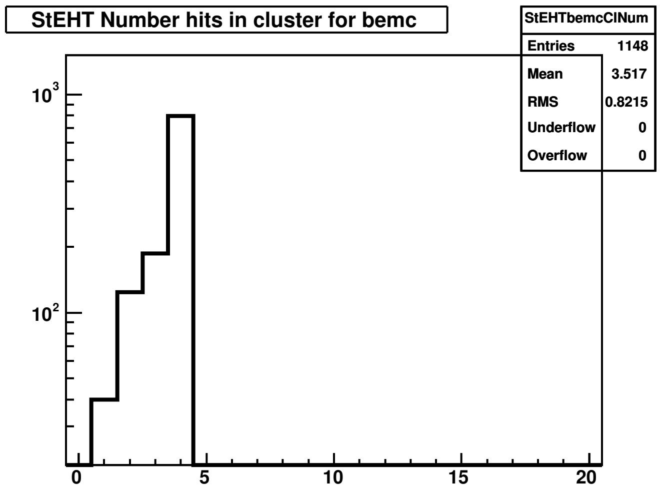

StEHT point: x-y distribution of hits, ftpcW
StEHTQaPointXYFtpcW
Entries 362764
Mean x -0.6221
Mean y 0.4747
RMS x 14.35
RMS y 14.13
0 0 0
0 362764 0
0 0 0

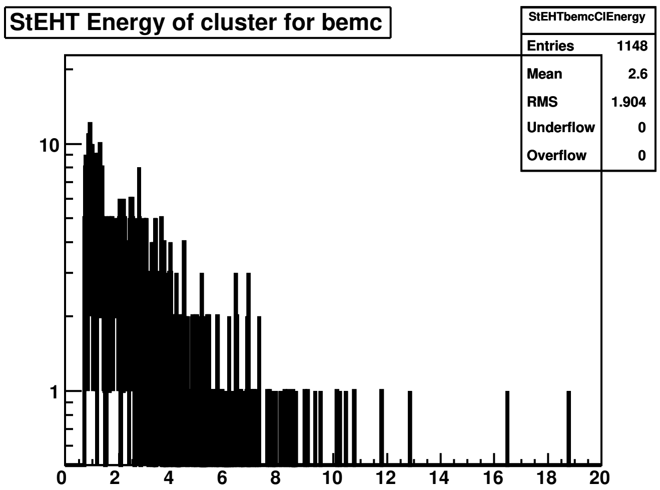

StEHT point: plane distribution of hits, ftpc
Legend
East
West
plane number

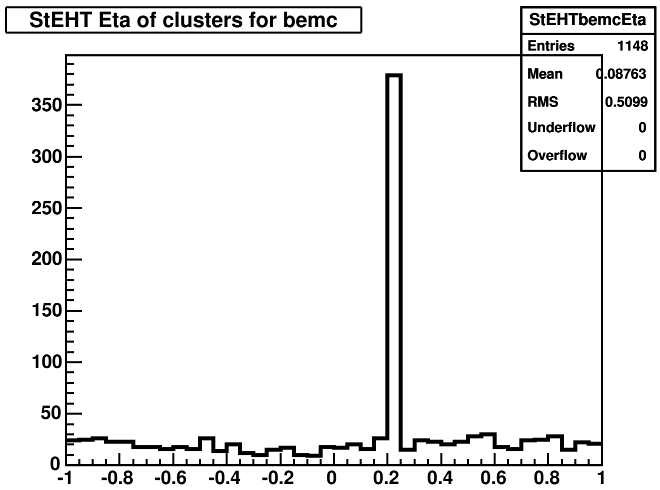

StEHT point: #pads vs #timebins of hits, ftpcE
StEHTQaPointPadTimeFtpcE
Entries 353591
Mean x 5.859
Mean y 4.691
RMS x 1.94
RMS y 1.758
0 26403 3324
0 313309 10555
0 0 0
#pads
#timebins

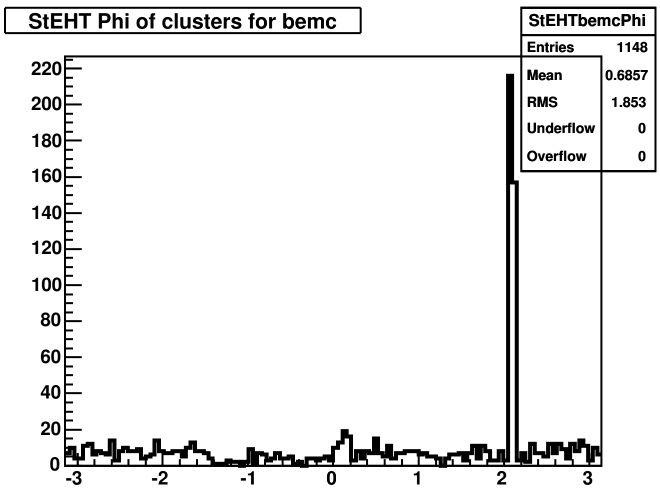

StEHT point: #pads vs #timebins of hits, ftpcW
StEHTQaPointPadTimeFtpcW
Entries 362764
Mean x 5.652
Mean y 4.433
RMS x 1.962
RMS y 1.774
0 24148 3128
0 324520 10968
0 0 0
#pads
#timebins

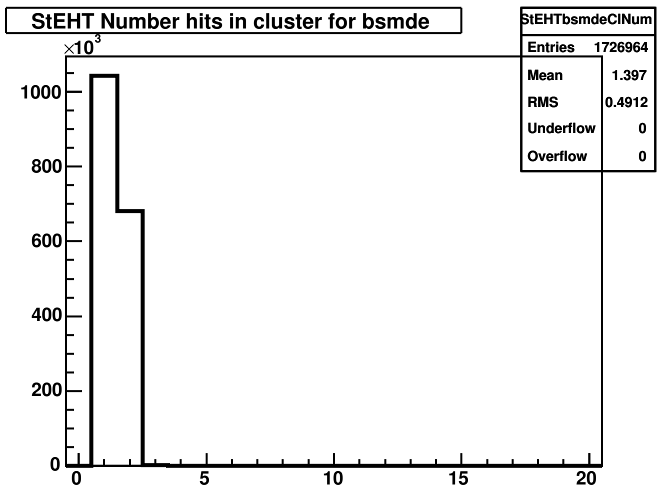

StEHT g2t_rch_hit: multiplicity
StEHTQaRichTot
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
1
0.5
0
-0.5
-1
0 20 40 60 80 100 120


StEHT Number hits in cluster for bemc
StEHTbemcClNum
Entries 1148
Mean 3.517
RMS 0.8215
Underflow 0
Overflow 0
10^3
10^2
0 5 10 15 20


StEHT Energy of cluster for bemc
StEHTbemcClEnergy
Entries 1148
Mean 2.6
RMS 1.904
Underflow 0
Overflow 0
10
1
0 2 4 6 8 10 12 14 16 18 20

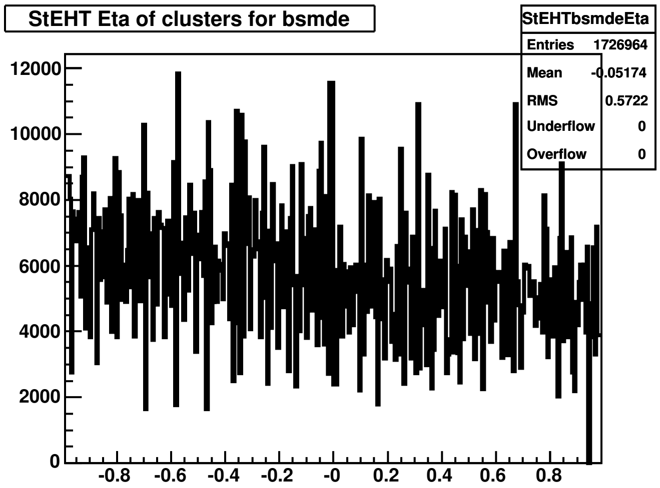

StEHT Eta of clusters for bemc
StEHTbemcEta
Entries 1148
Mean 0.08763
RMS 0.5099
Underflow 0
Overflow 0
350 300 250 200 150 100 50 0
-1 -0.8 -0.6 -0.4 -0.2 0 0.2 0.4 0.6 0.8 1

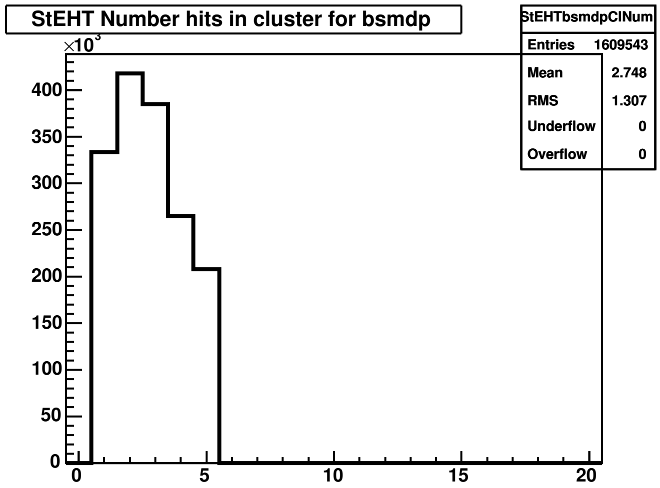

StEHT Phi of clusters for bemc
StEHTbemcPhi
Entries 1148
Mean 0.6857
RMS 1.853
Underflow 0
Overflow 0
220 200 180 160 140 120 100 80 60 40 20 0
-3 -2 -1 0 1 2 3

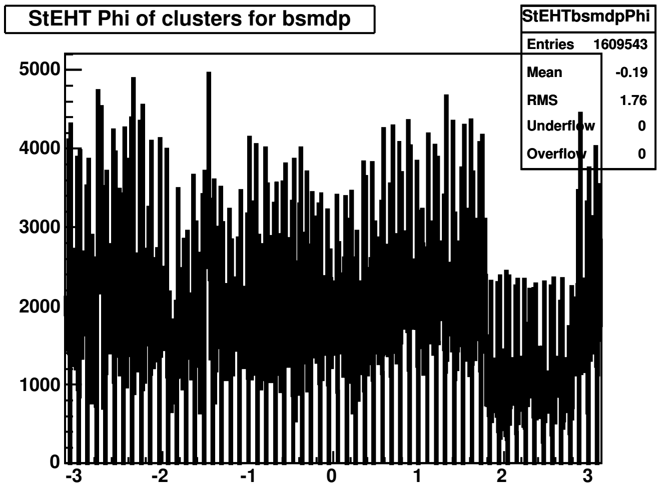

StEHT Number hits in cluster for bsmde
StEHTbsmdeClNum
Entries 1726964
Mean 1.397
RMS 0.4912
Underflow 0
Overflow 0
$\times 10^3$
1000 800 600 400 200 0
0 5 10 15 20

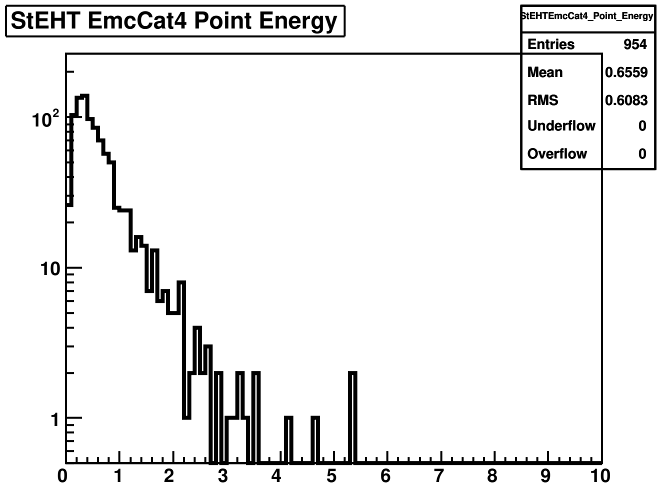
st_physics_7075188_raw_1030004.hist.root

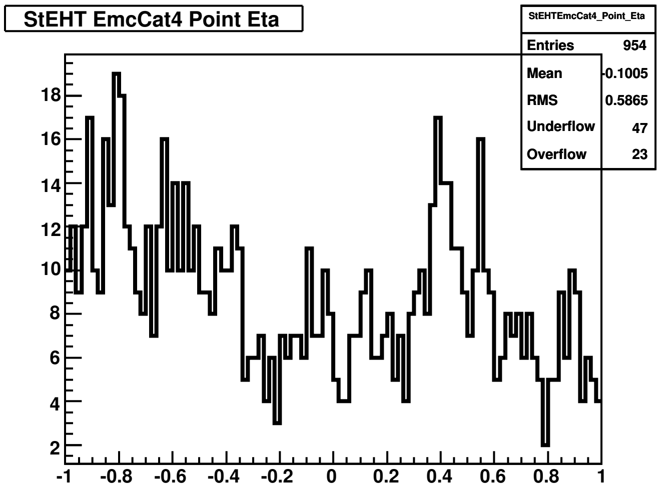
High Tower Hists

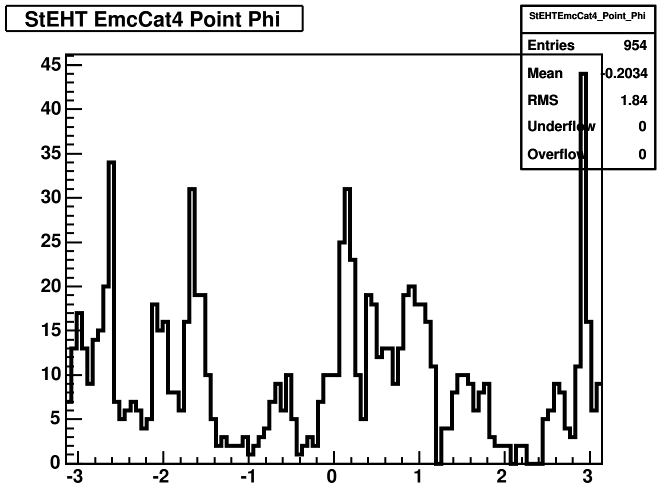












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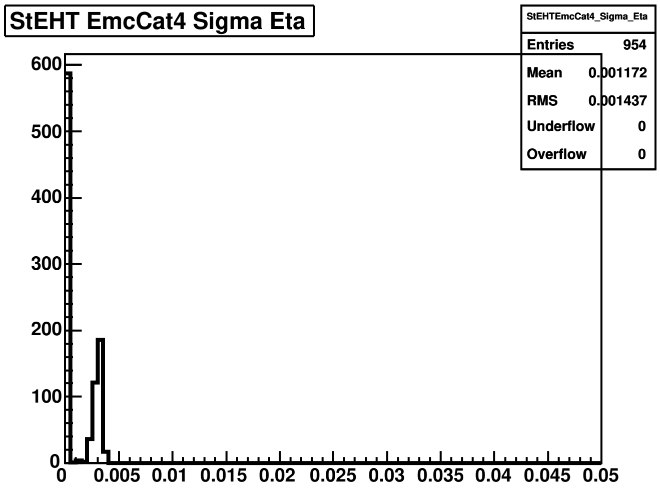
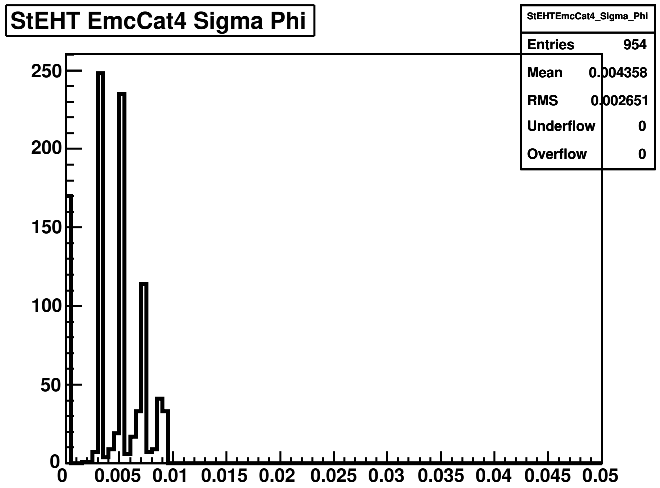
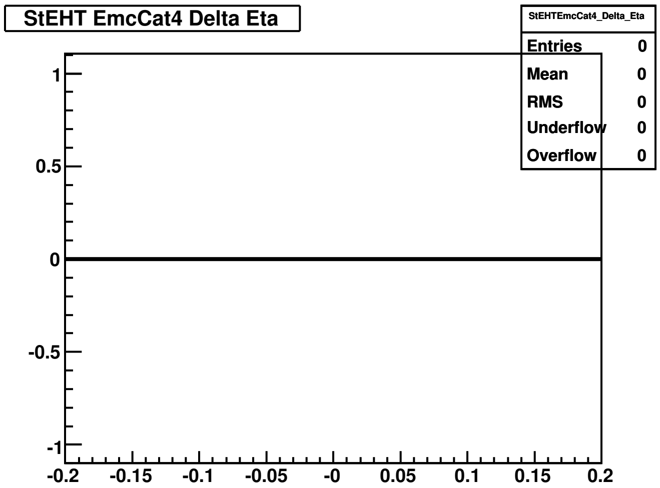
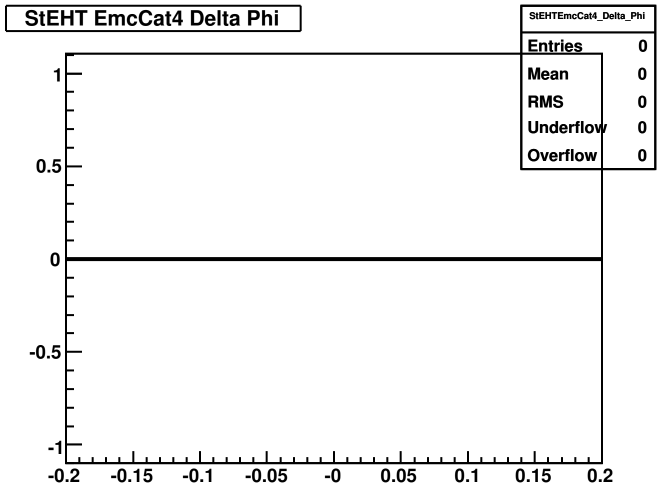
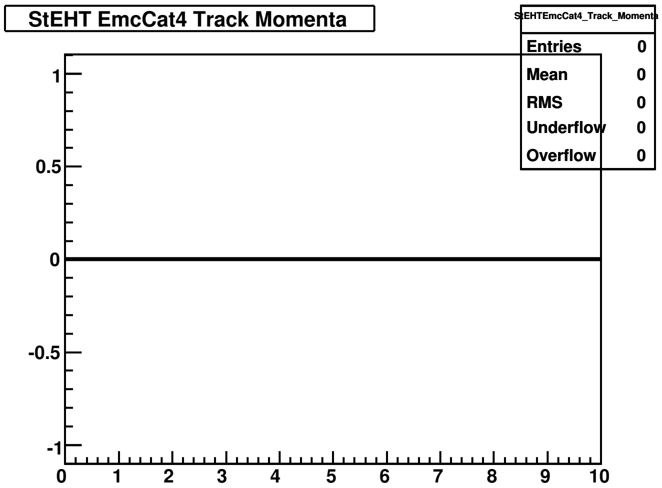
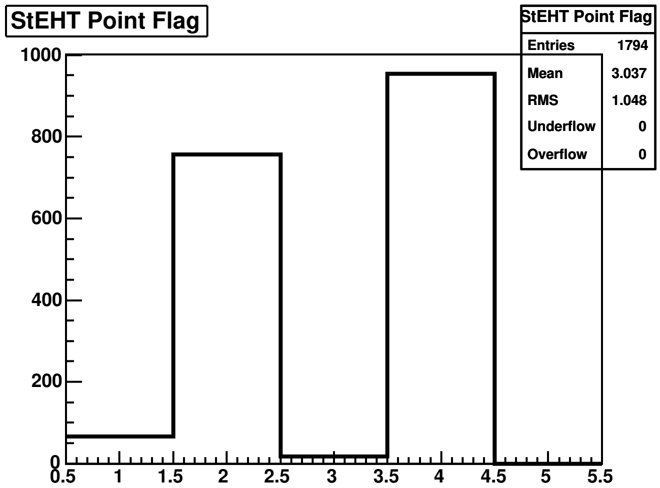

StEHT EmcCat4 Sigma Eta
StEHTEmcCat4_Sigma_Eta
Entries 954
Mean 0.001172
RMS 0.001437
Underflow 0
Overflow 0


StEHT EmcCat4 Sigma Phi
StEHTEmcCat4_Sigma_Phi
Entries 954
Mean 0.004358
RMS 0.002651
Underflow 0
Overflow 0


StEHT EmcCat4 Delta Eta
StEHTEmcCat4_Delta_Eta
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0

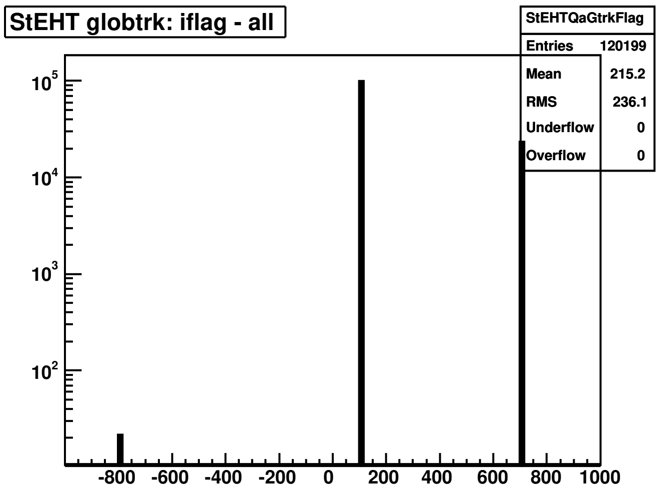

StEHT EmcCat4 Delta Phi
StEHTEmcCat4_Delta_Phi
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0

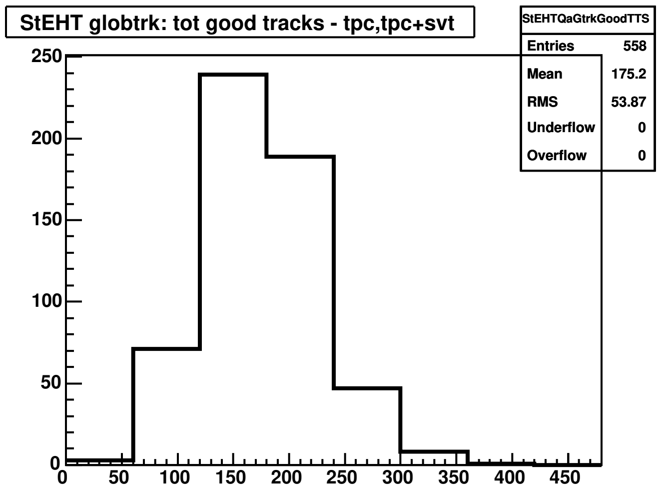

StEHT EmcCat4 Track Momenta
StEHTEmcCat4_Track_Momenta
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0

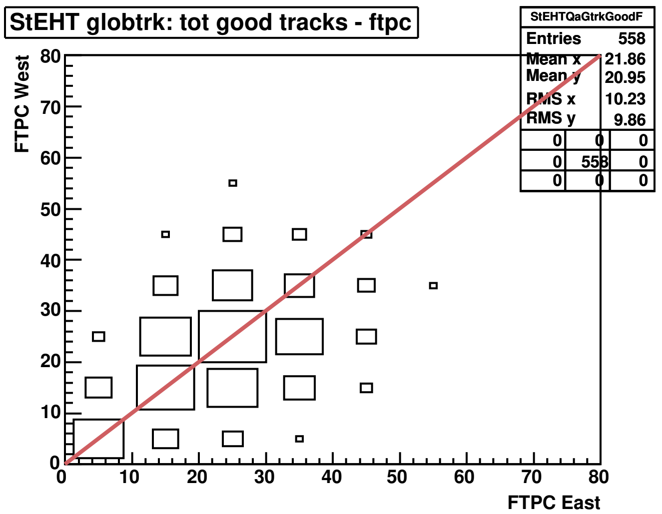

StEHT Point Flag
StEHT Point Flag
Entries 1794
Mean 3.037
RMS 1.048
Underflow 0
Overflow 0

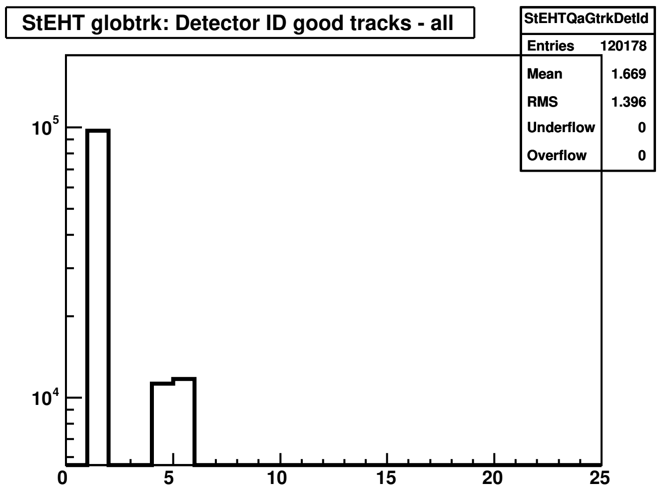
st_physics_7075188_raw_1030004.hist.root

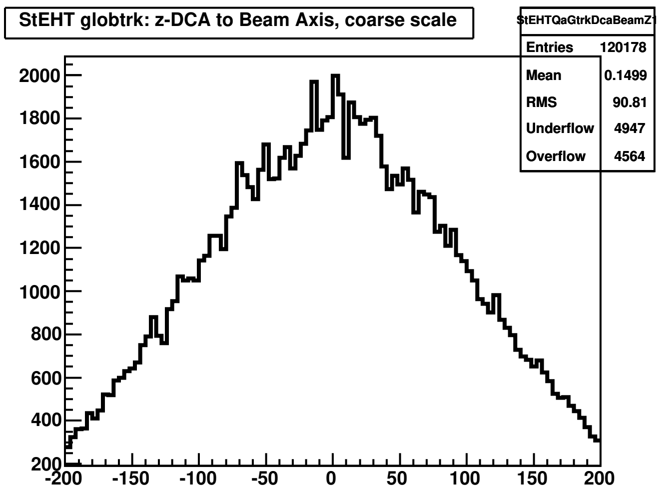
High Tower Hists

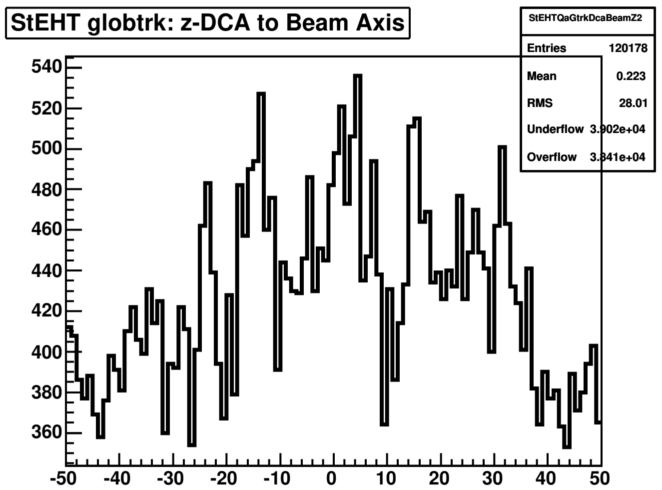






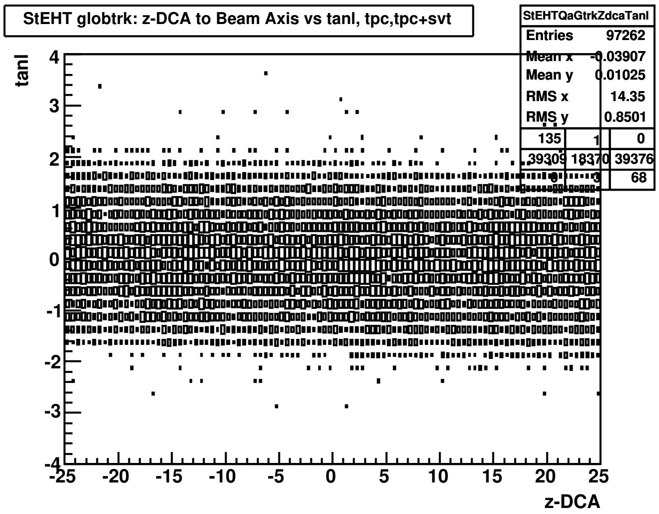


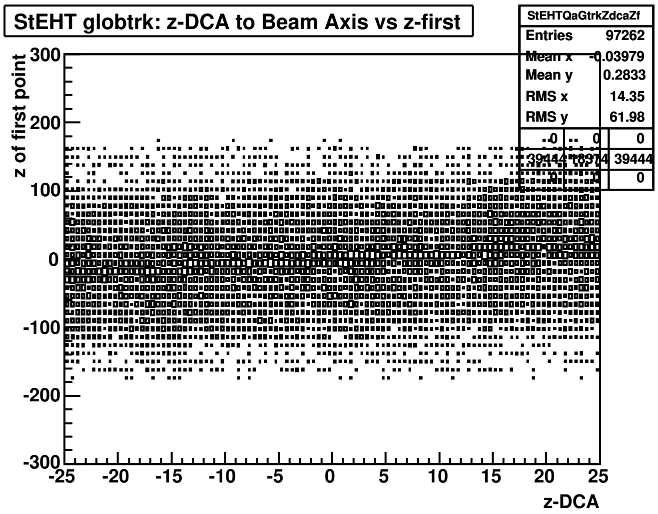


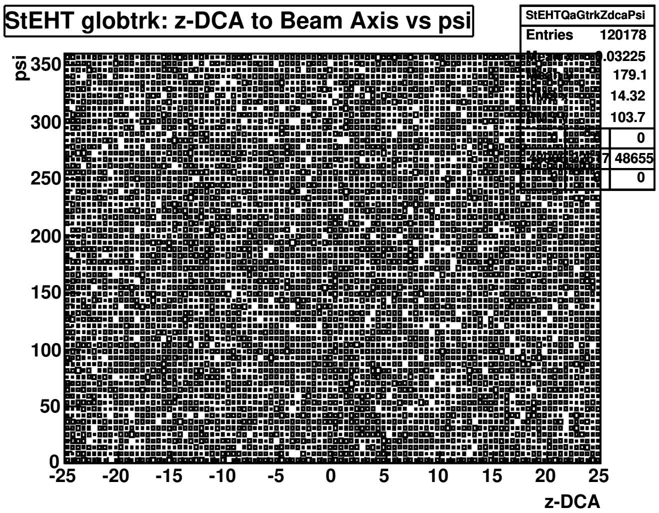


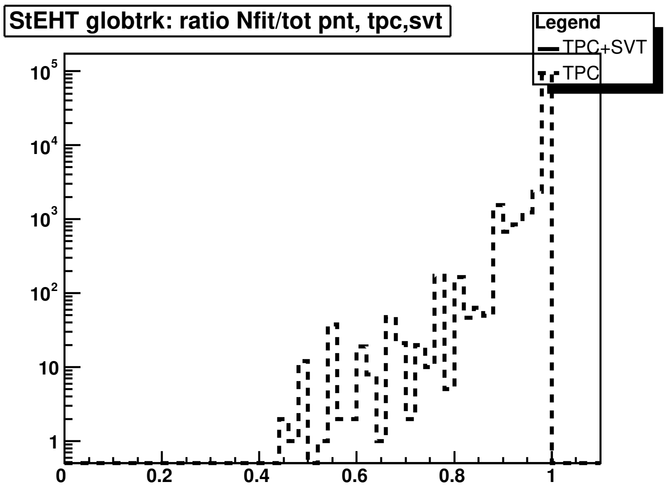
st_physics_7075188_raw_1030004.hist.root

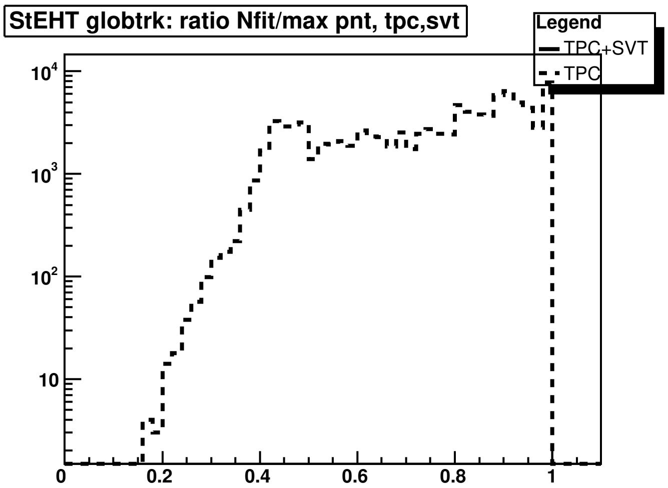
High Tower Hists

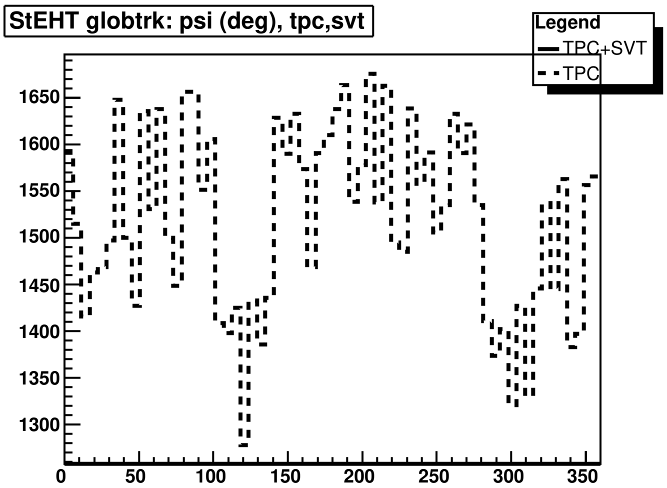


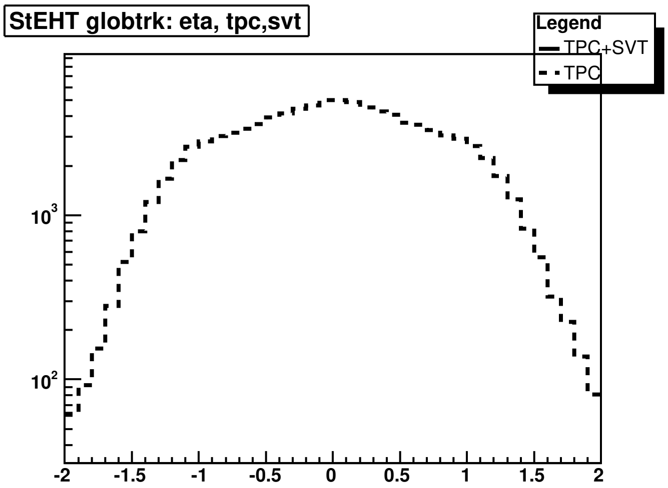


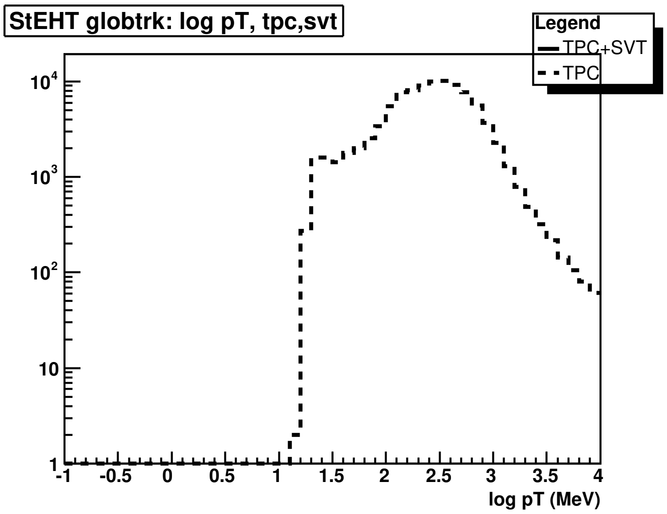


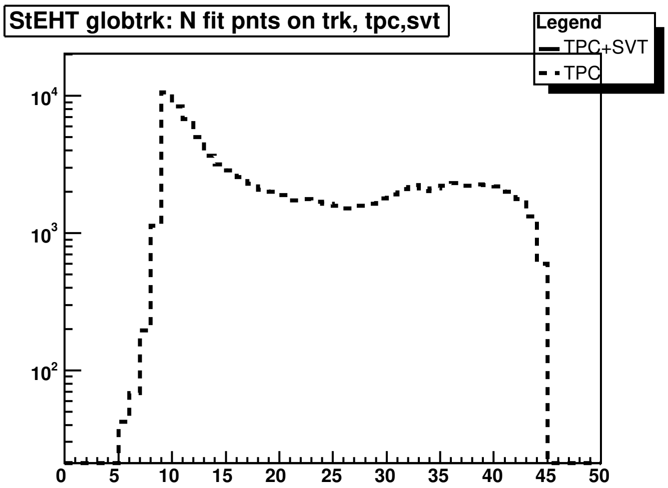


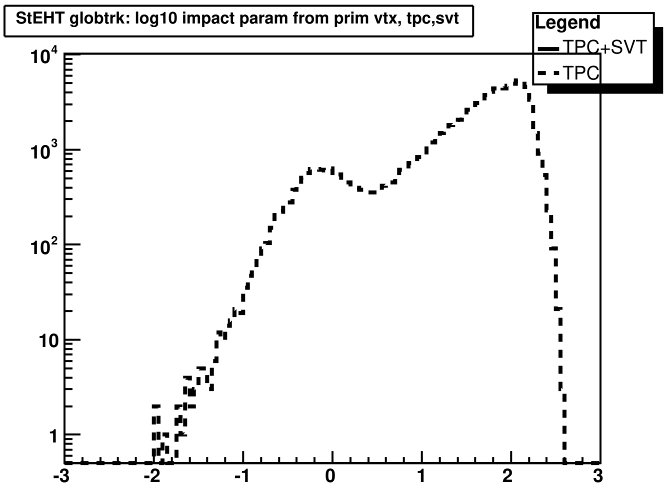


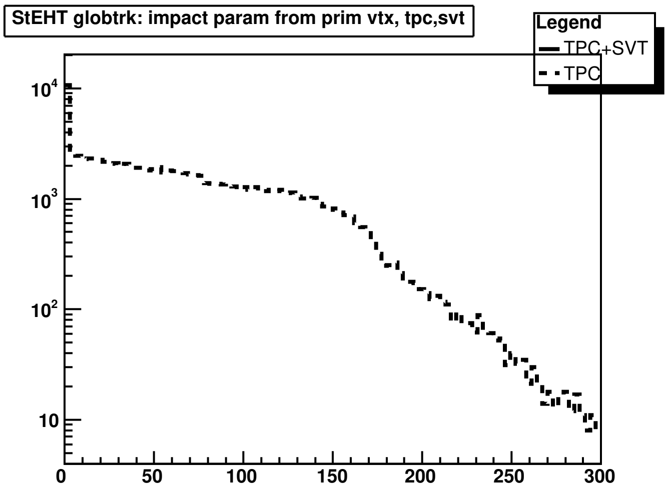


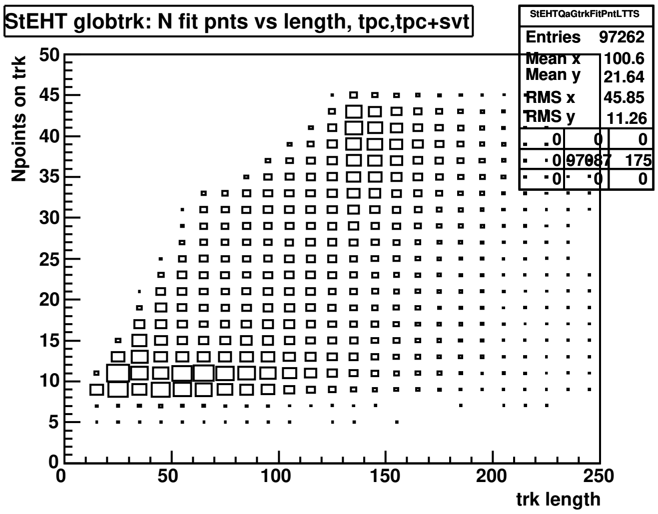

StEHT globtrk: eta, tpc,svt
Legend
TPC+SVT
TPC


StEHT globtrk: log pT, tpc,svt
Legend
TPC+SVT
TPC
log pT (MeV)

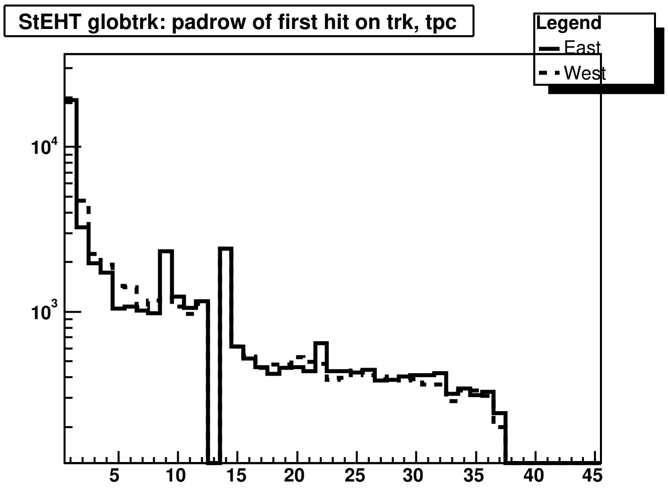

StEHT globtrk: N fit pnts on trk, tpc,svt
Legend
TPC+SVT
TPC


StEHT globtrk: log10 impact param from prim vtx, tpc,svt
Legend
TPC+SVT
TPC

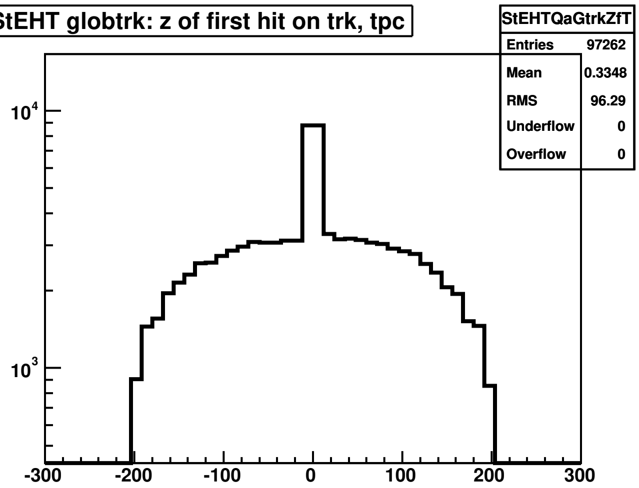

StEHT globtrk: impact param from prim vtx, tpc,svt
Legend
TPC+SVT
TPC


StEHT globtrk: N fit pnts vs length, tpc,tpc+svt
StEHTQaGtrkFitPntLTTS
Entries 97262
Mean x 100.6
Mean y 21.64
RMS x 45.85
RMS y 11.26
0 0 0
0 97087 175
0 0 0
Npoints on trk
trk length

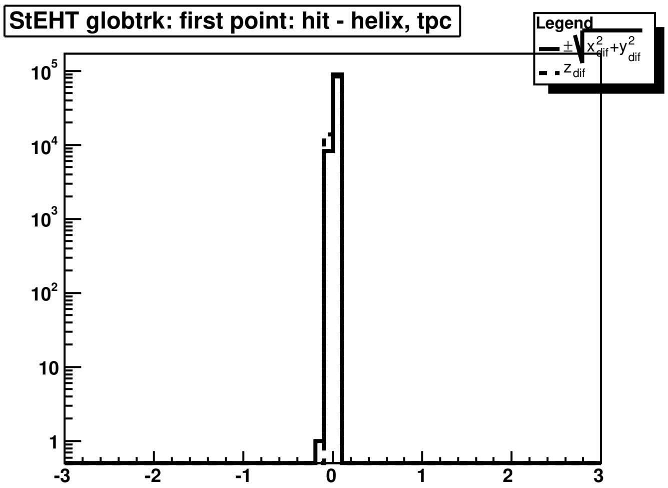
StEHT globtrk: padrow of first hit on trk, tpc



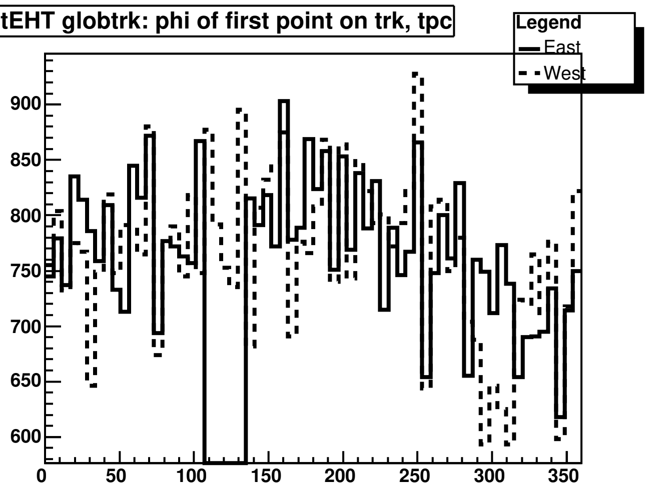
StEHT globtrk: z of first hit on trk, tpc



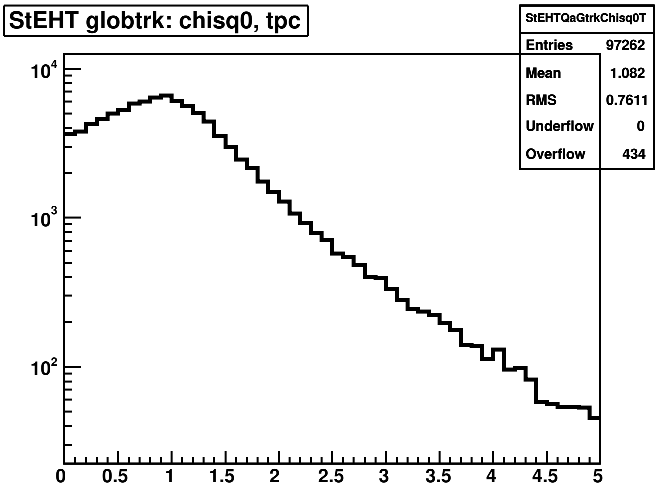
StEHT globtrk: first point: hit - helix, tpc



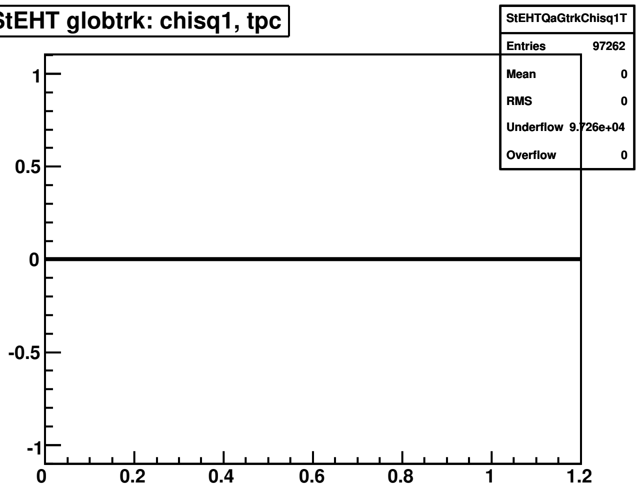
StEHT globtrk: phi of first point on trk, tpc



StEHT globtrk: chisq0, tpc

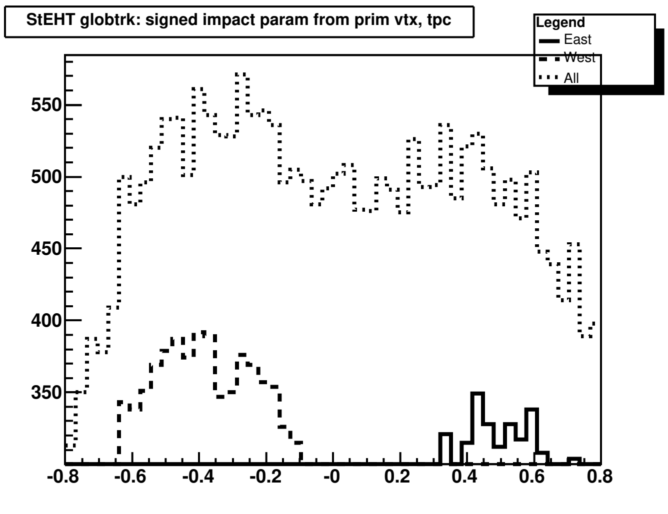


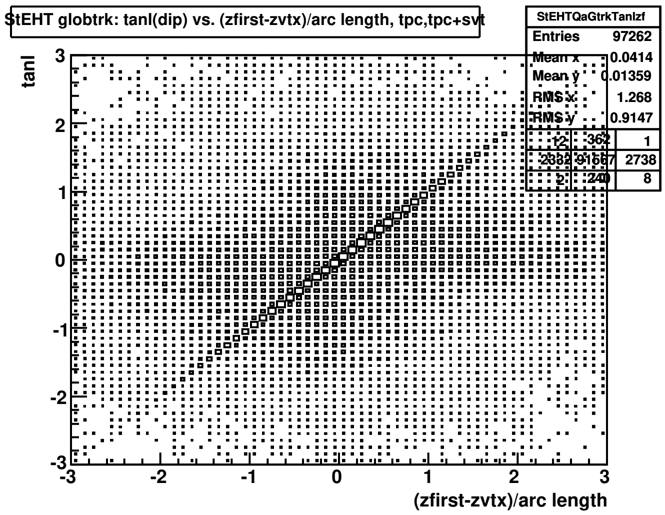
StEHT globtrk: chisq1, tpc

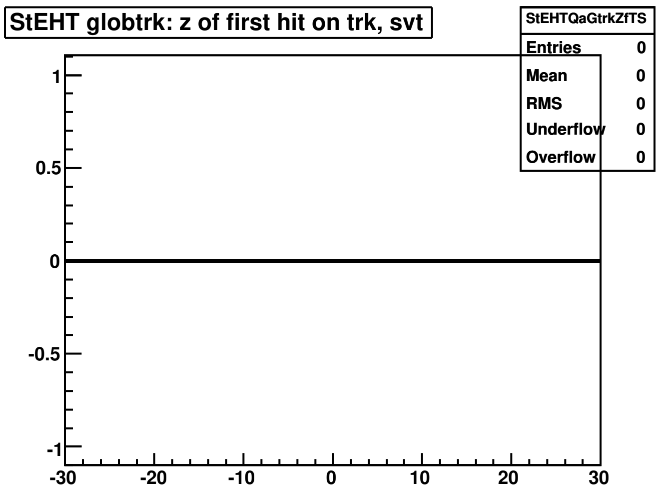


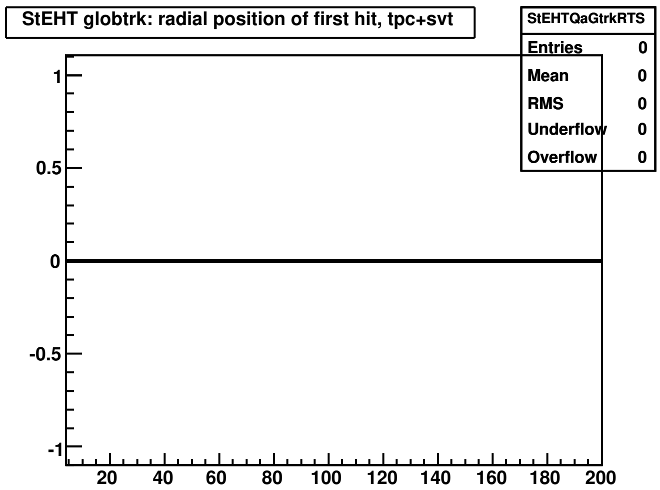
st_physics_7075188_raw_1030004.hist.root

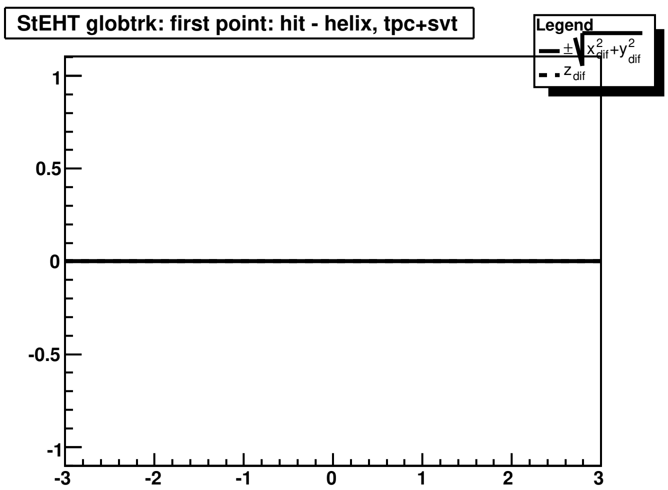
High Tower Hists

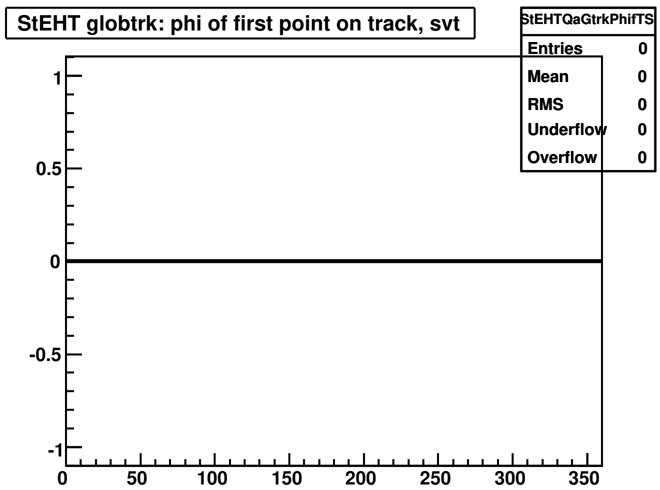


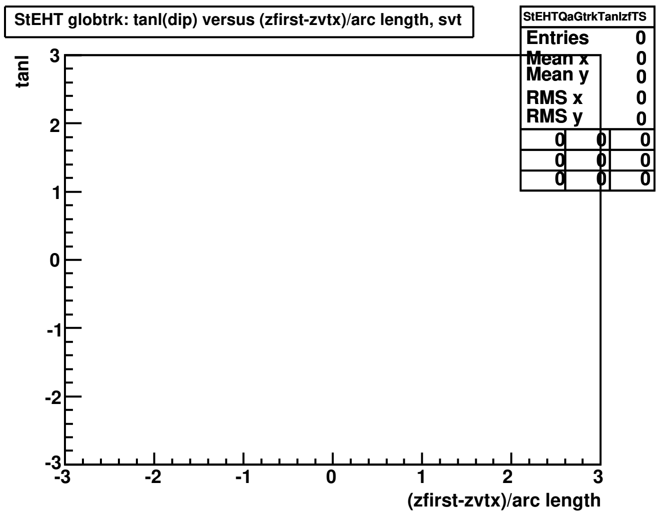


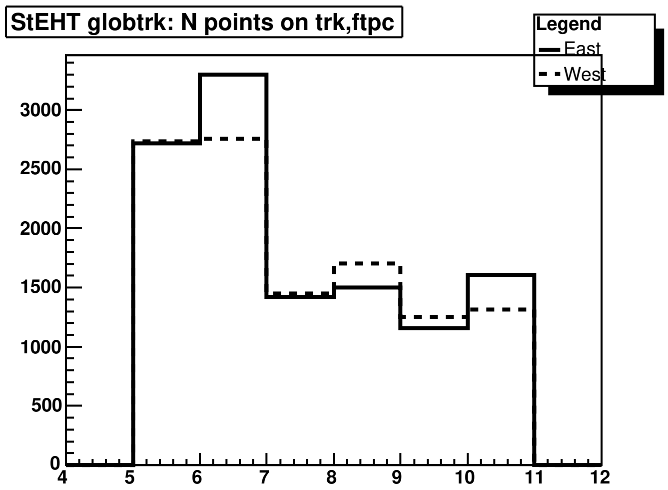


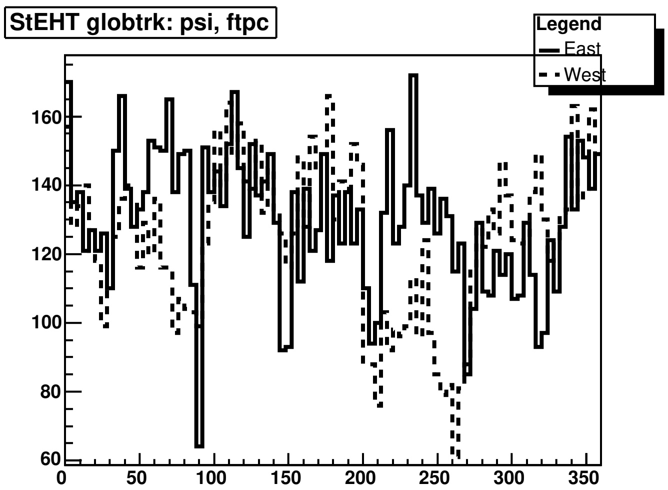


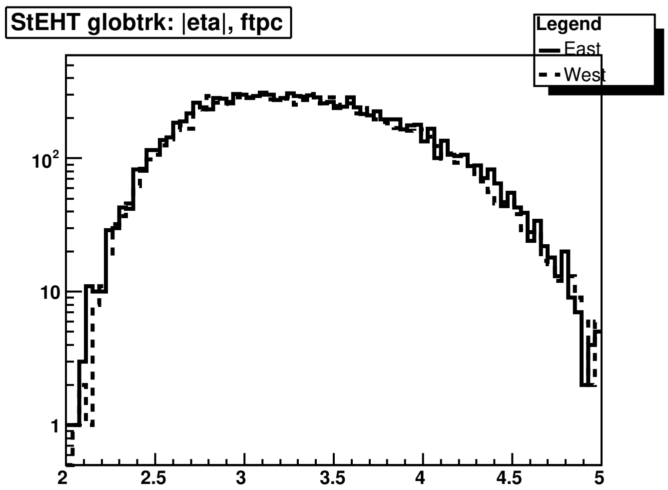


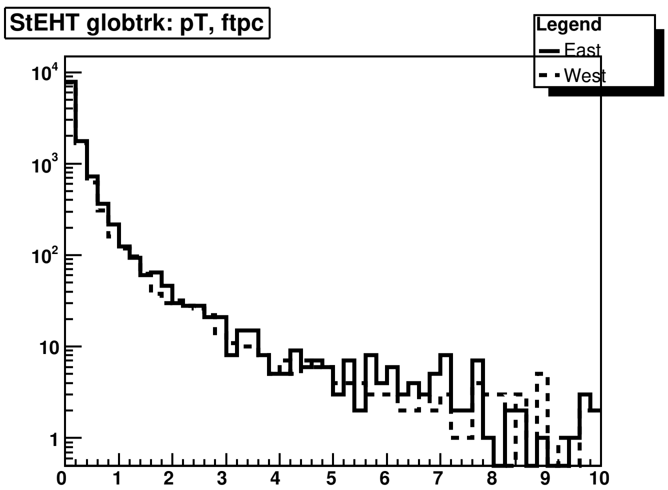


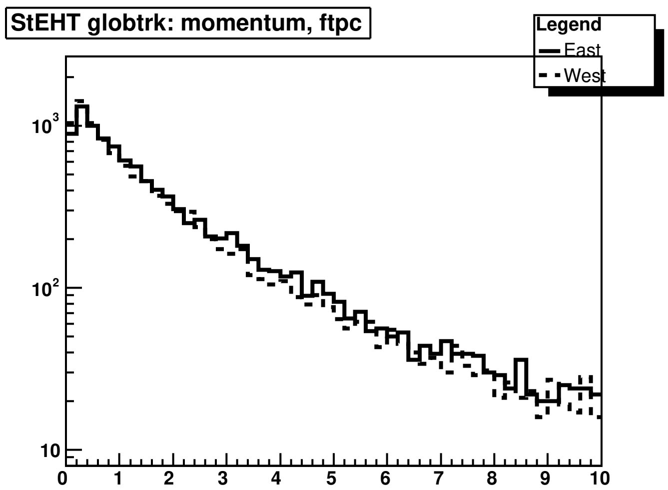

StEHT globtrk: tanl(dip) versus (zfirst-zvtx)/arc length, svt
StEHTQaGtrkTanlzfTS
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
tanl
(zfirst-zvtx)/arc length


StEHT globtrk: N points on trk,ftpc
Legend
East
West

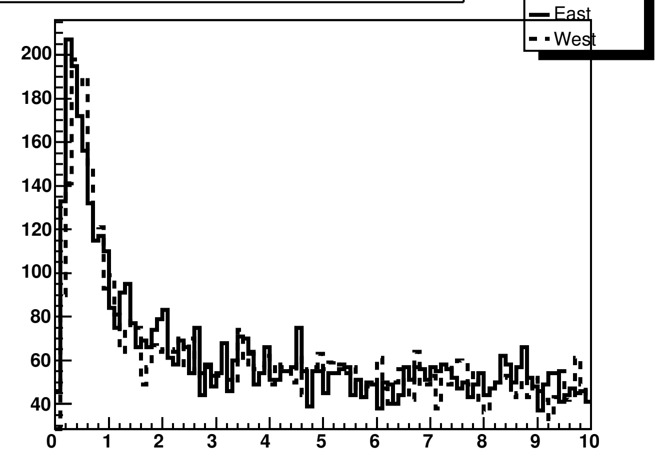

StEHT globtrk: psi, ftpc
Legend
East
West


StEHT globtrk: |eta|, ftpc
Legend
East
West

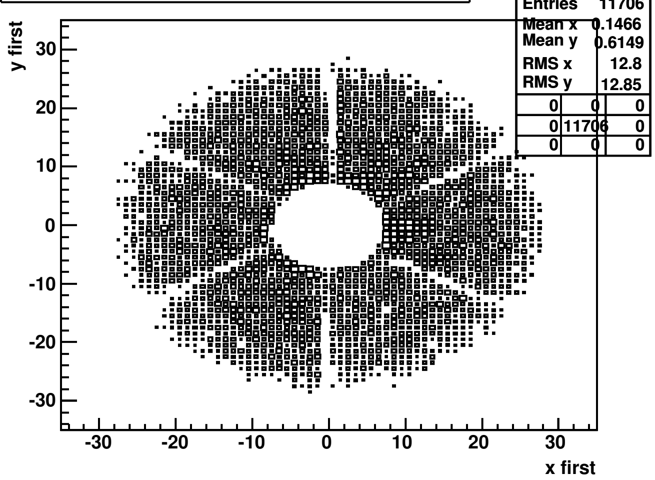

StEHT globtrk: pT, ftpc
Legend
East
West


StEHT globtrk: momentum, ftpc
Legend
East
West

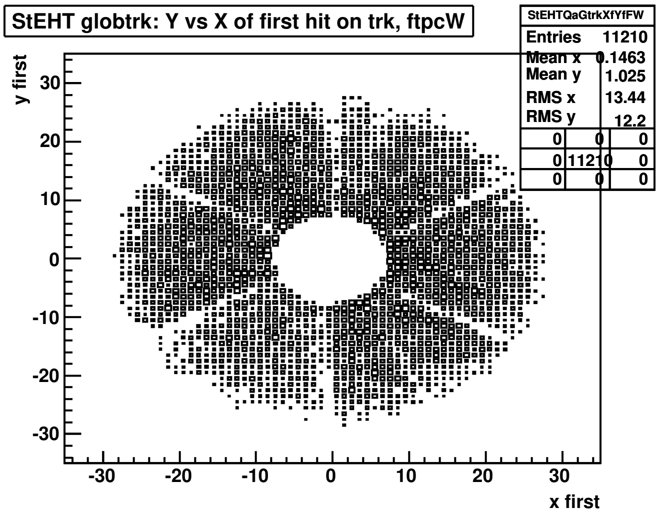
StEHT globtrk: impact param from prim vtx, ftpc



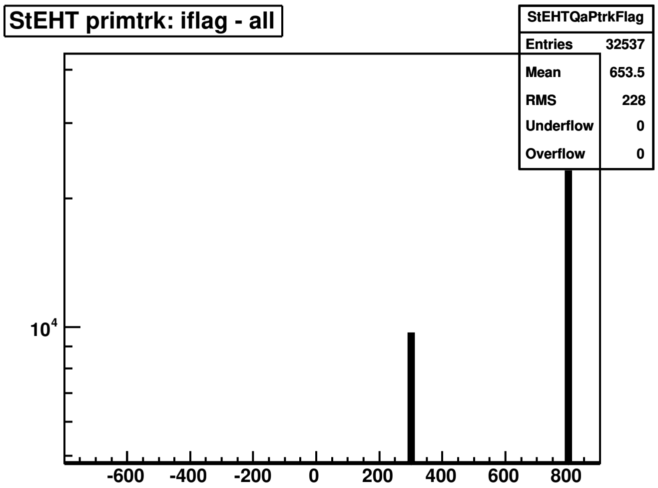
StEHT globtrk: Y vs X of first hit on trk, ftpcE



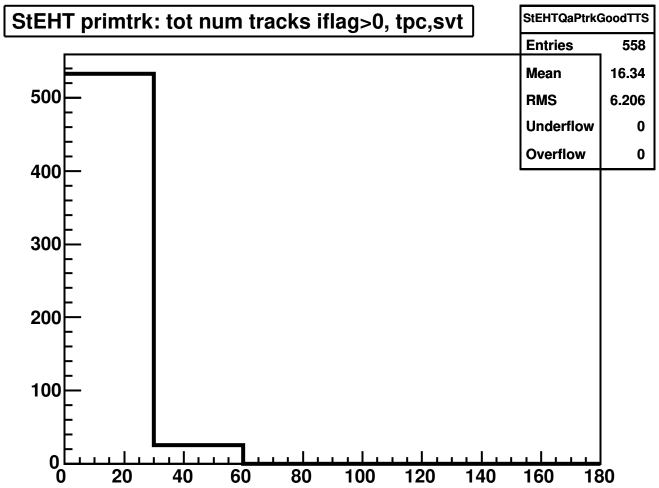
StEHT globtrk: Y vs X of first hit on trk, ftpcW



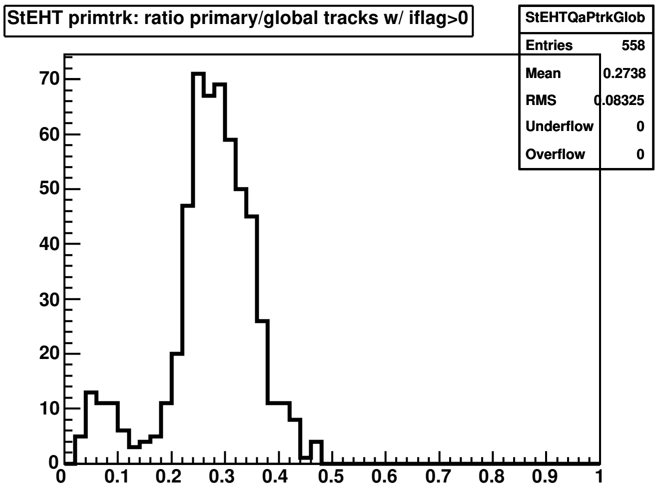
StEHT primtrk: iflag - all



StEHT primtrk: tot num tracks iflag>0, tpc,svt

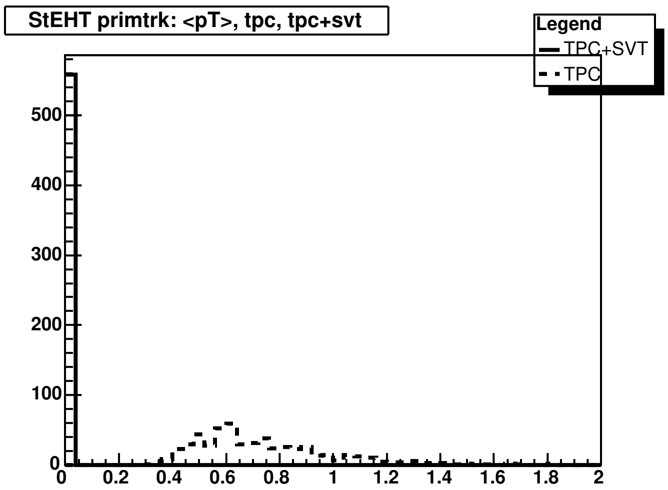


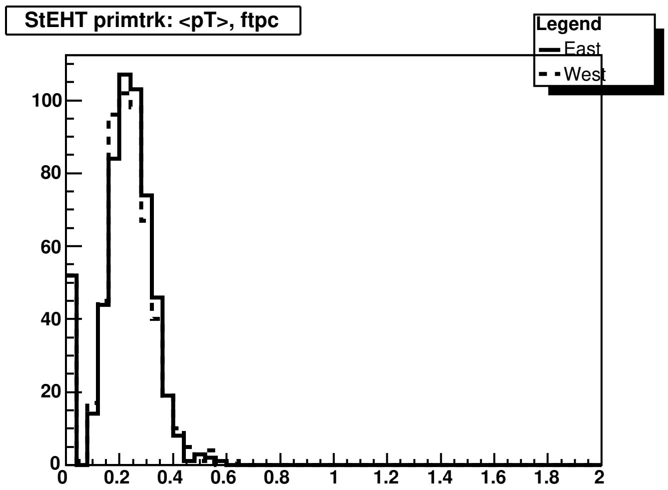
StEHT primtrk: ratio primary/global tracks w/ iflag>0

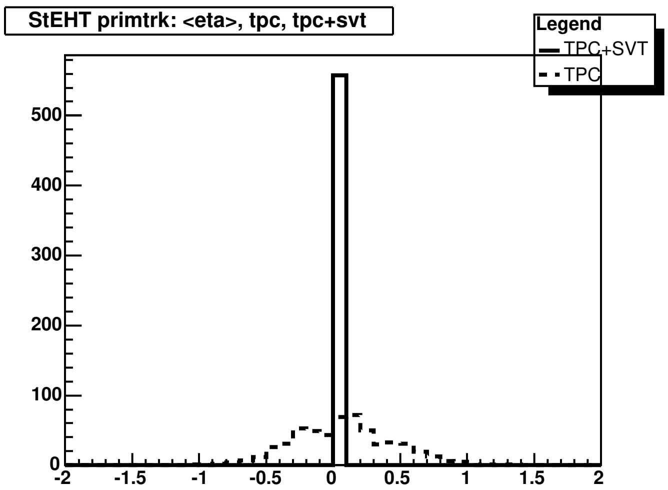


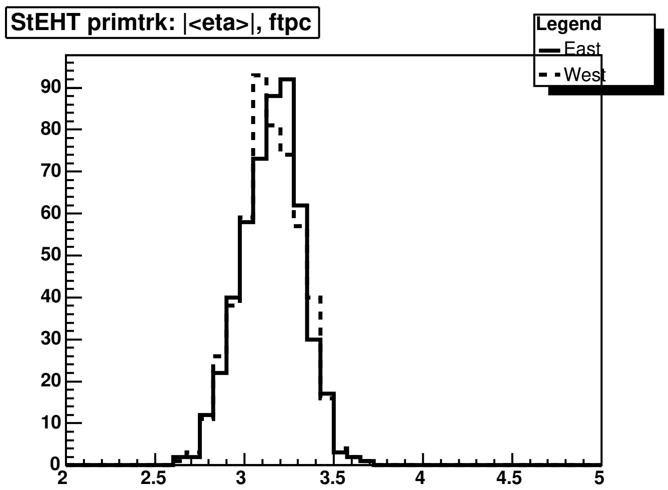
st_physics_7075188_raw_1030004.hist.root

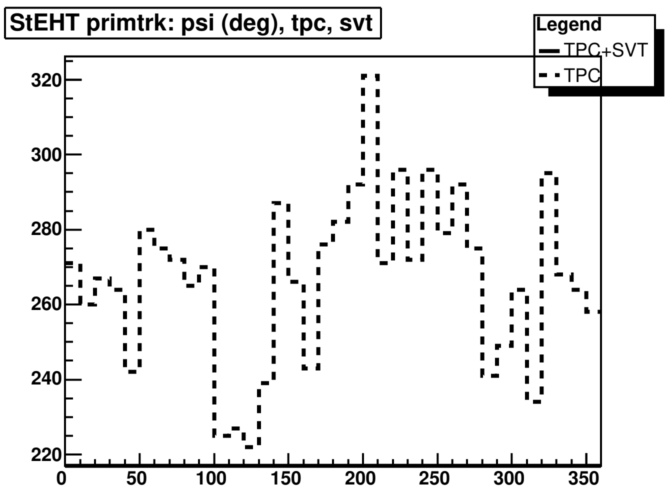
High Tower Hists

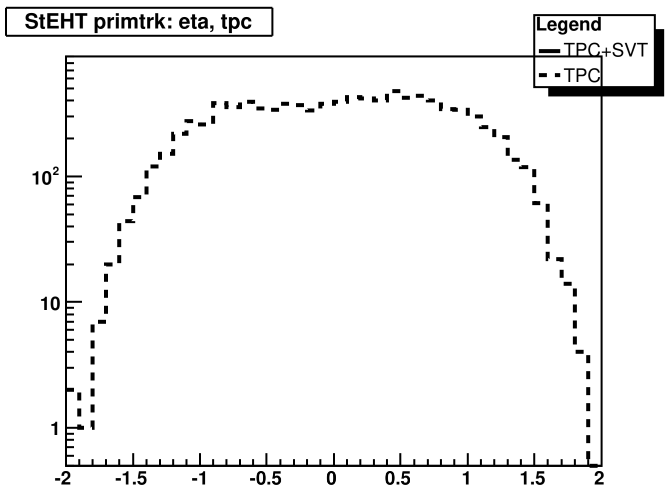


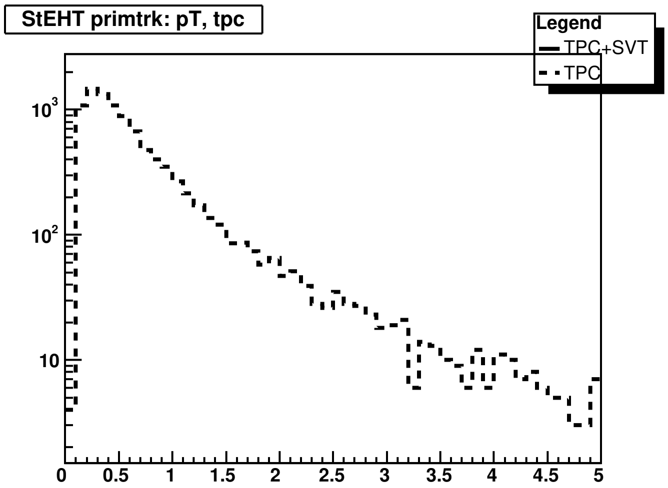


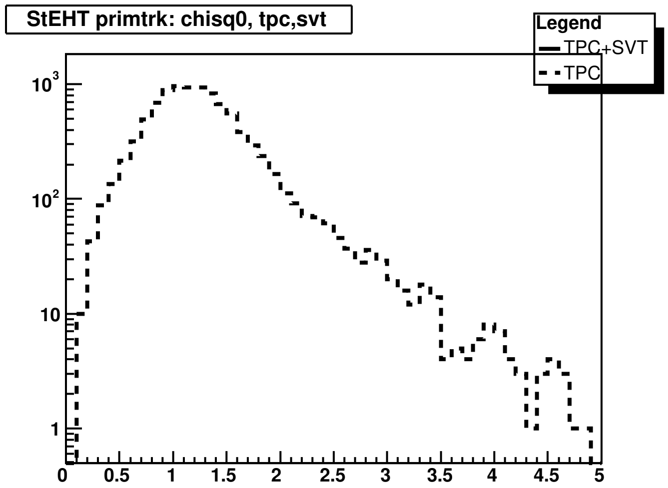


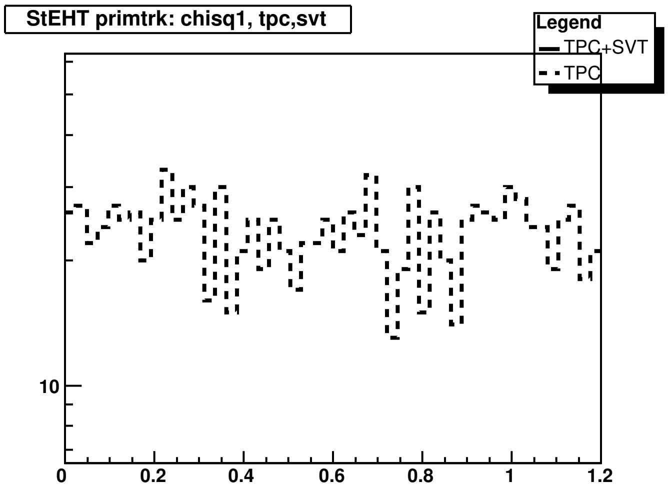


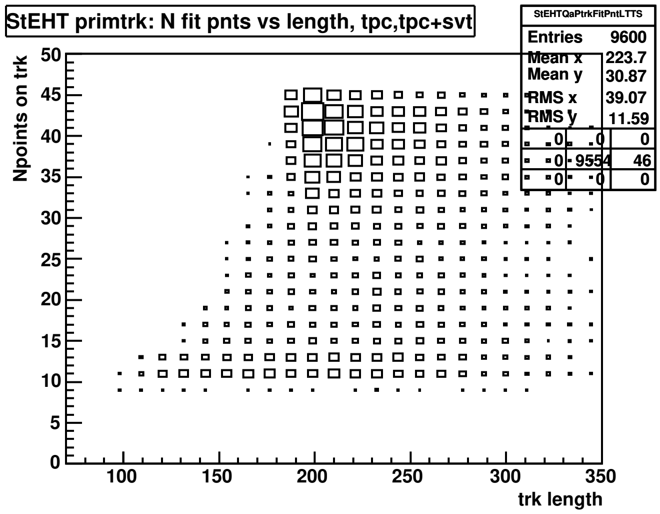


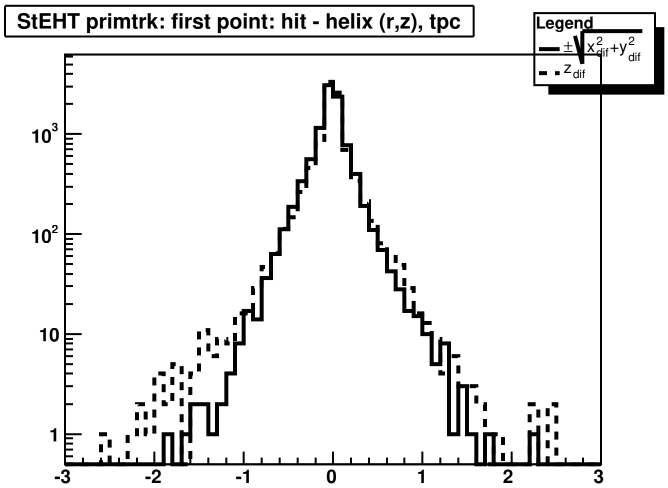


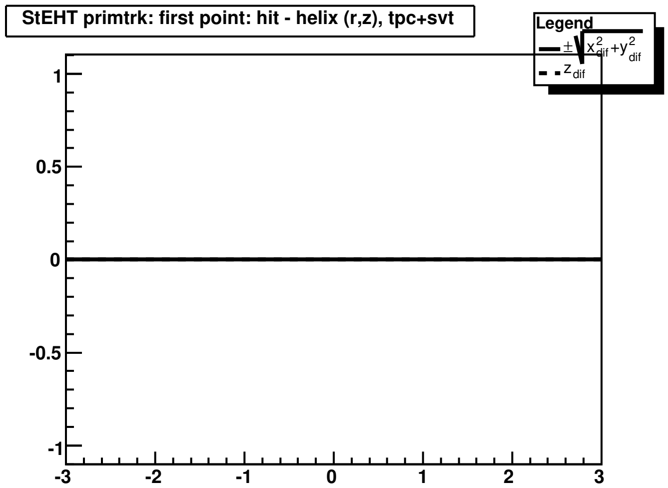

StEHT primtrk: pT, tpc
Legend
TPC+SVT
TPC
10
10^2
10^3
0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 5

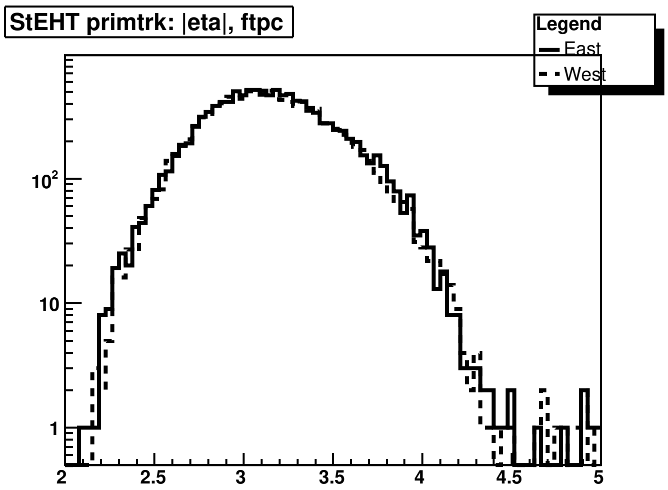

StEHT primtrk: chisq0, tpc,svt
Legend
TPC+SVT
TPC
1
10
10^2
10^3
0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 5

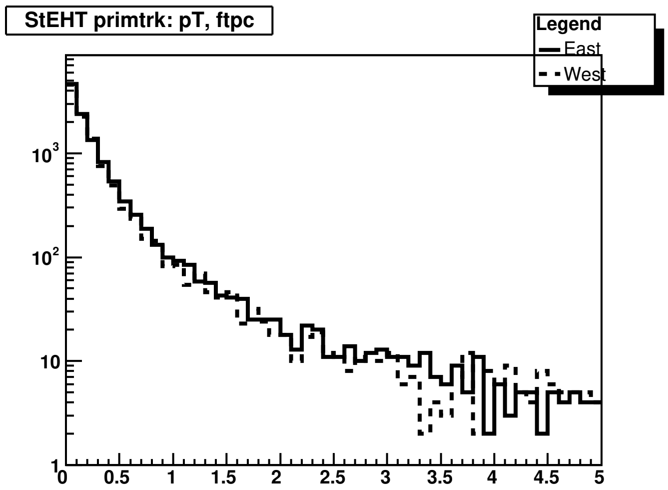

StEHT primtrk: chisq1, tpc,svt
Legend
TPC+SVT
TPC
10
0 0.2 0.4 0.6 0.8 1 1.2

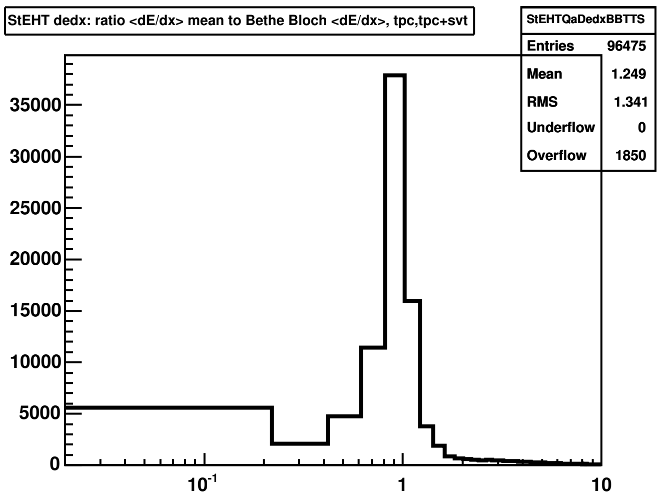

StEHT primtrk: N fit pnts vs length, tpc,tpc+svt
StEHTQaPtrkFitPntLTTS
Entries 9600
Mean x 223.7
Mean y 30.87
RMS x 39.07
RMS y 11.59
0 0 0
0 9554 46
0 0 0
Npoints on trk
0 5 10 15 20 25 30 35 40 45 50
100 150 200 250 300 350
trk length

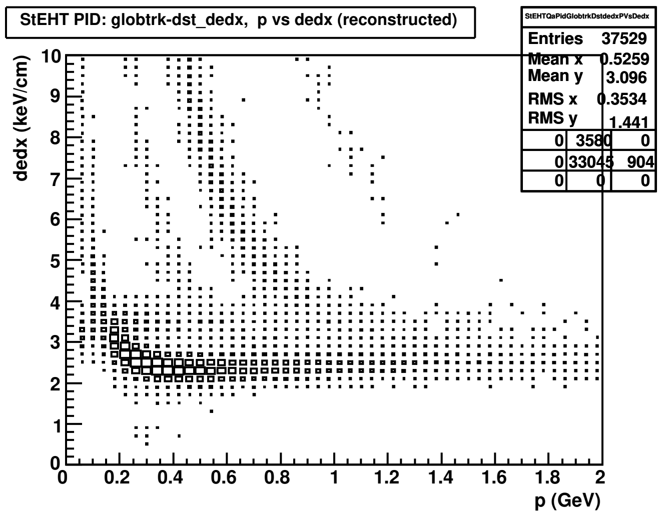

StEHT primtrk: first point: hit - helix (r,z), tpc
Legend
$\pm\sqrt{x_{dif}^2+y_{dif}^2}$
z_{dif}
1
10
10^2
10^3
-3 -2 -1 0 1 2 3

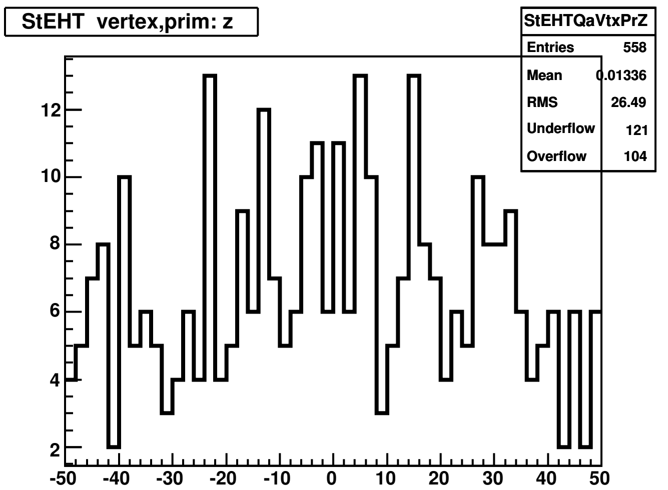

StEHT primtrk: first point: hit - helix (r,z), tpc+svt
Legend
$\pm\sqrt{x_{dif}^2+y_{dif}^2}$
z_{dif}
-1 -0.5 0 0.5 1
-3 -2 -1 0 1 2 3

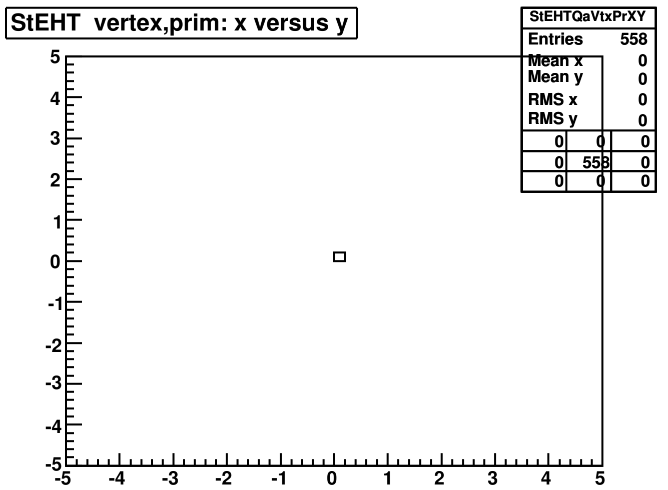

StEHT primtrk: |eta|, ftpc
Legend
East
West
2
2.5
3
3.5
4
4.5
5
1
10
10^2


StEHT primtrk: pT, ftpc
Legend
East
West
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
1
10
10^2
10^3


StEHT dedx: ratio <dE/dx> mean to Bethe Bloch <dE/dx>, tpc,tpc+svt
StEHTQaDedxBBTTS
Entries 96475
Mean 1.249
RMS 1.341
Underflow 0
Overflow 1850
0
5000
10000
15000
20000
25000
30000
35000
10^{-1}
1
10

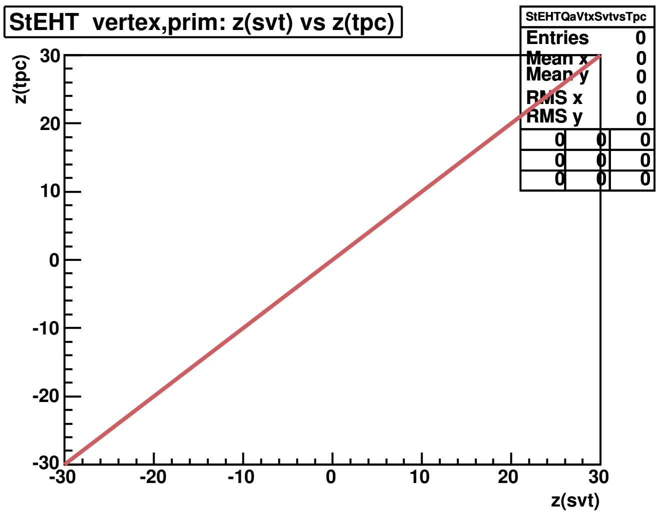

StEHT PID: globtrk-dst_dedx, p vs dedx (reconstructed)
Entries 37529
Mean x 0.5259
Mean y 3.096
RMS x 0.3534
RMS y 1.441
0 3580 0
0 33045 904
0 0 0
dedx (keV/cm)
p (GeV)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0
1
2
3
4
5
6
7
8
9
10

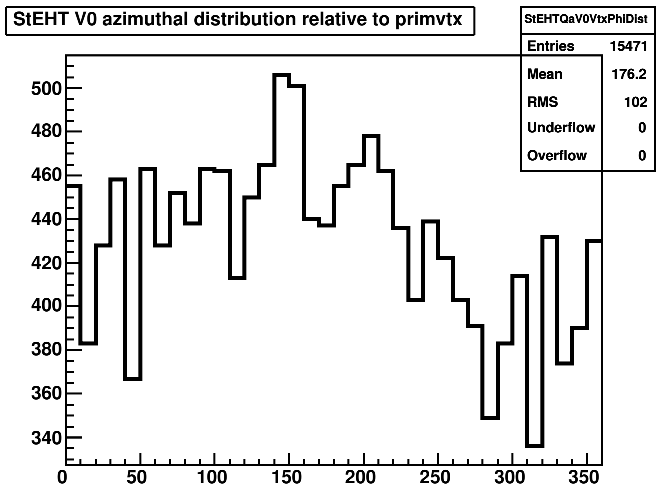

StEHT vertex,prim: z
StEHTQaVtxPrZ
Entries 558
Mean 0.01336
RMS 26.49
Underflow 121
Overflow 104
-50
-40
-30
-20
-10
0
10
20
30
40
50
2
4
6
8
10
12

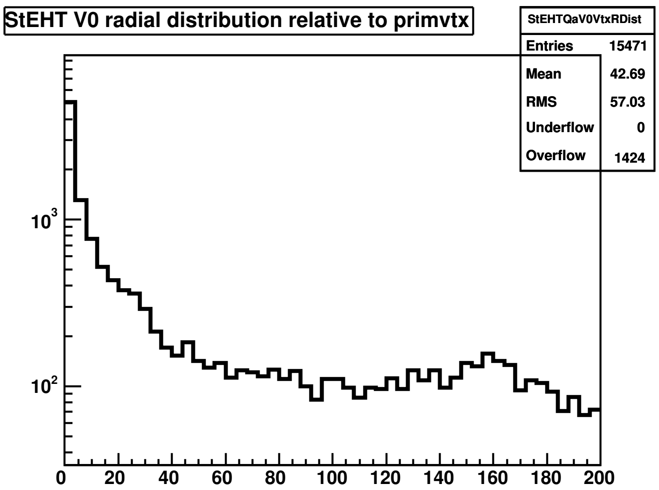

StEHT vertex,prim: x versus y
StEHTQaVtxPrXY
Entries 558
Mean x 0
Mean y 0
RMS x 0
RMS y 0
0 0 0
0 558 0
0 0 0
-5
-4
-3
-2
-1
0
1
2
3
4
5

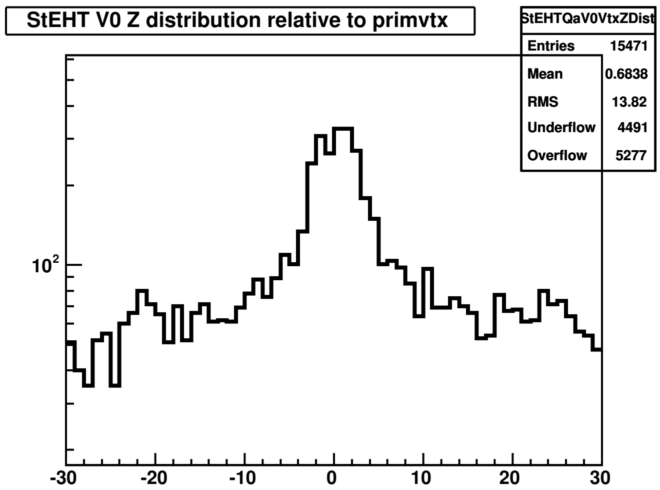
st_physics_7075188_raw_1030004.hist.root

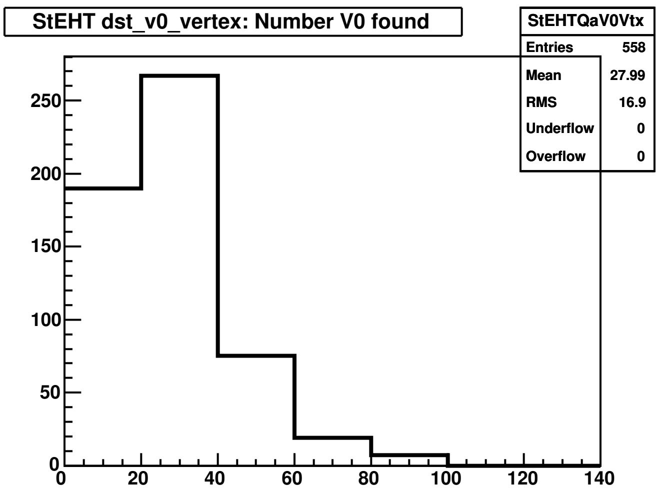
High Tower Hists

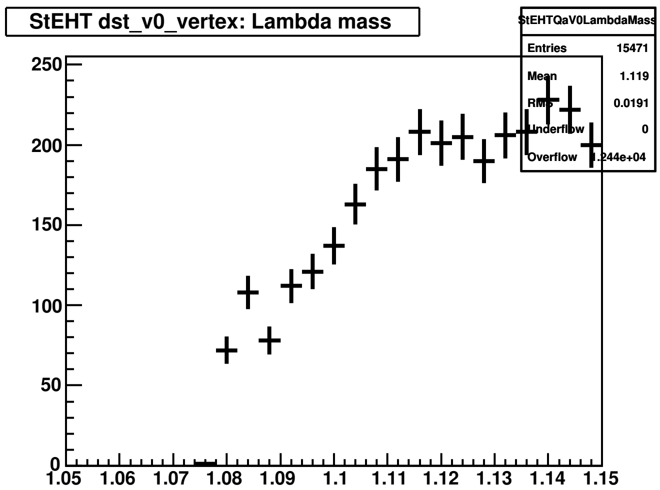












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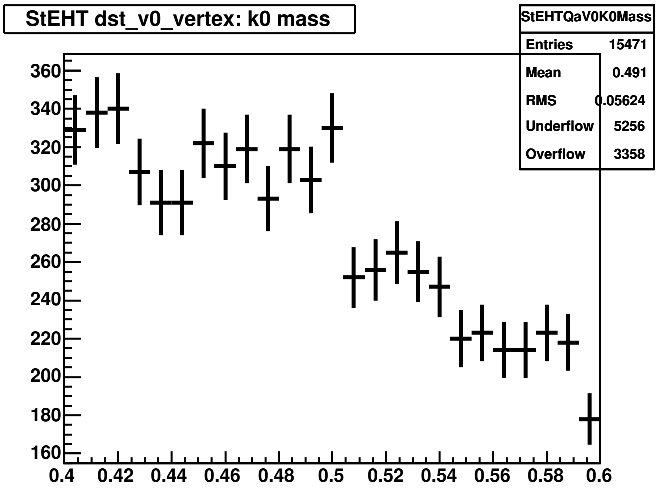
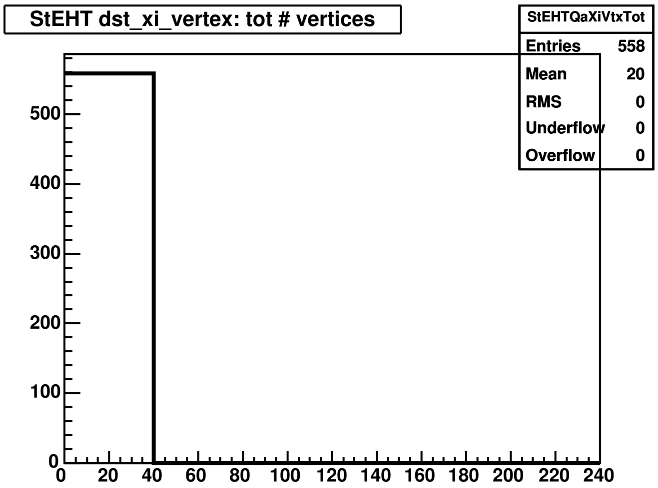
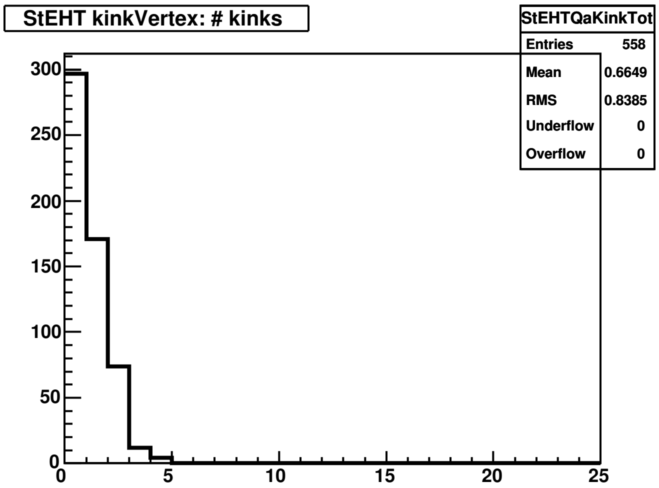
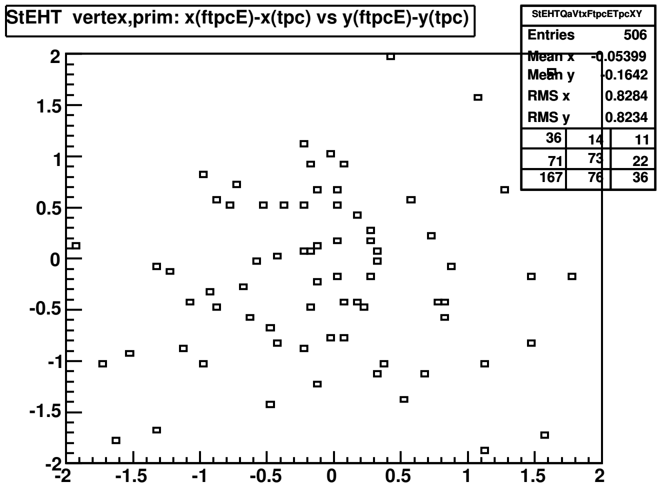
st_physics_7075188_raw_1030004.hist.root

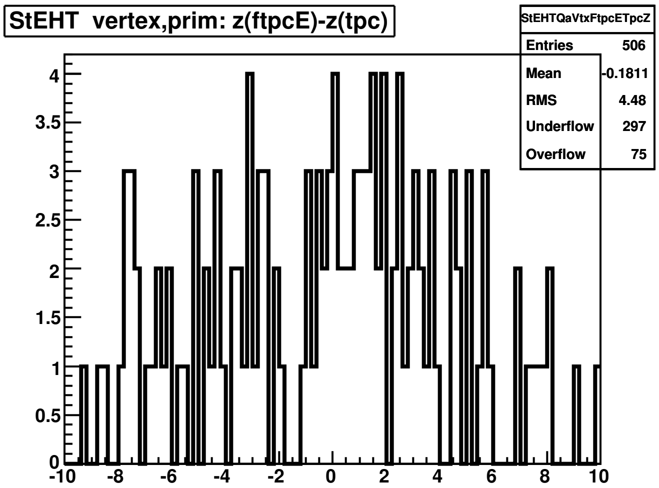
High Tower Hists

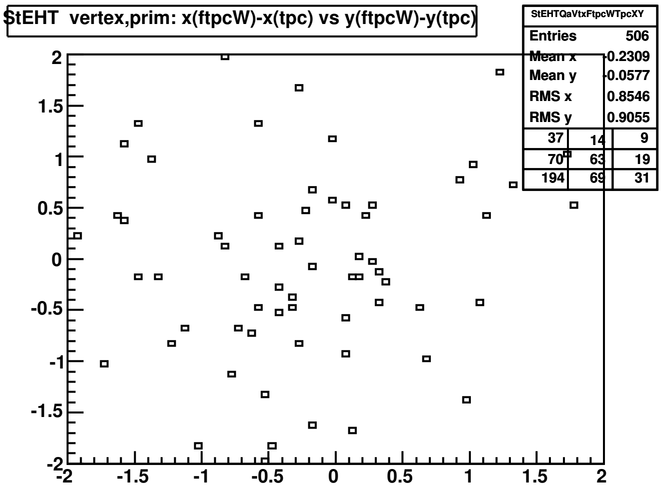












StEHT vertex,prim: z(ftpcW)-z(tpc)