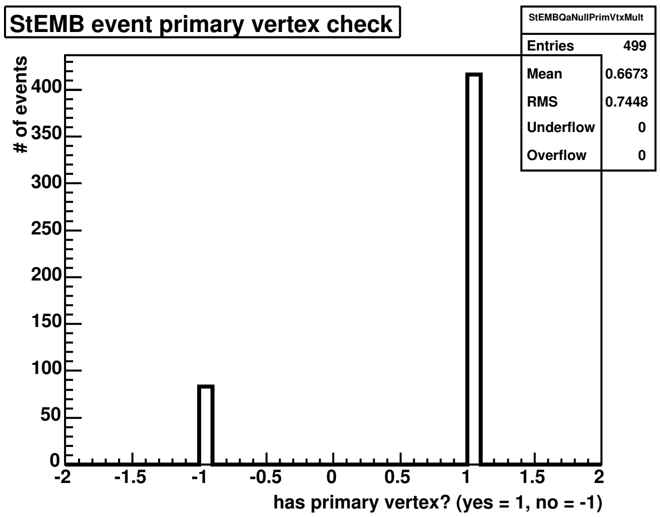

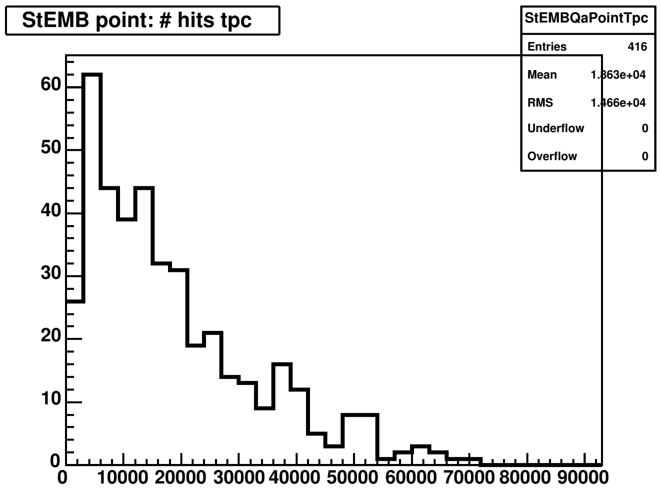

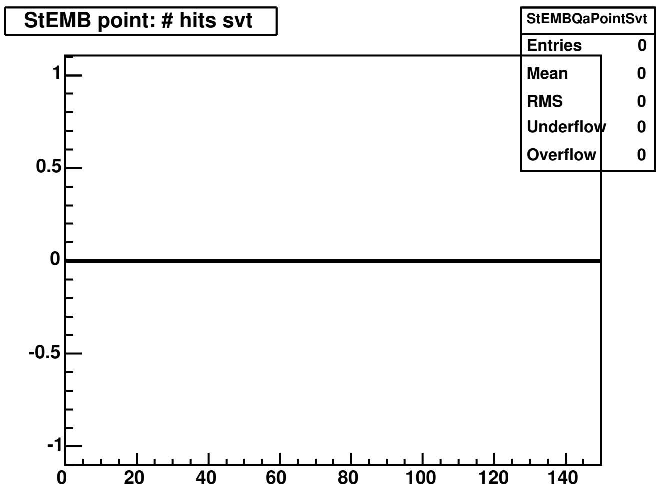

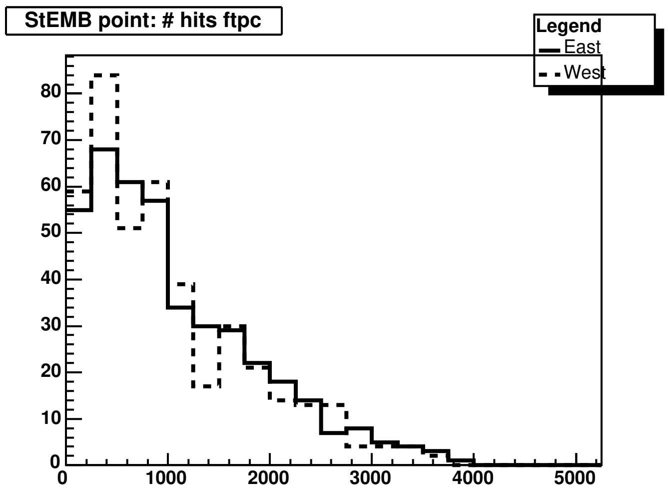

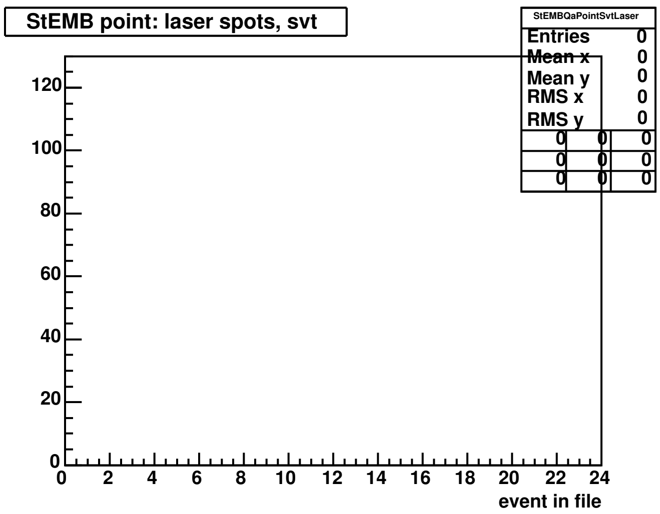

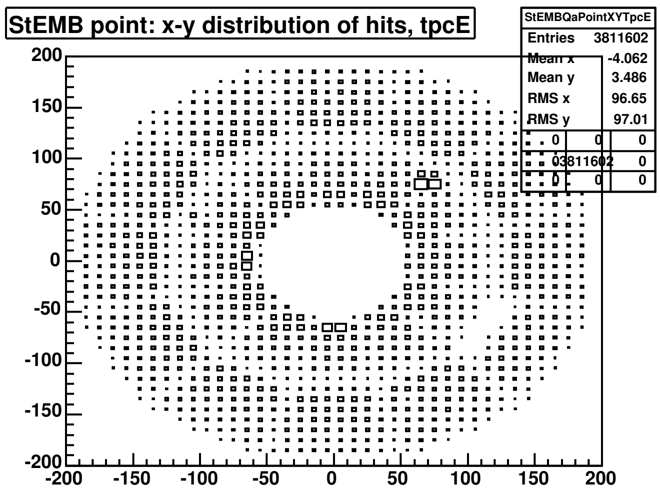

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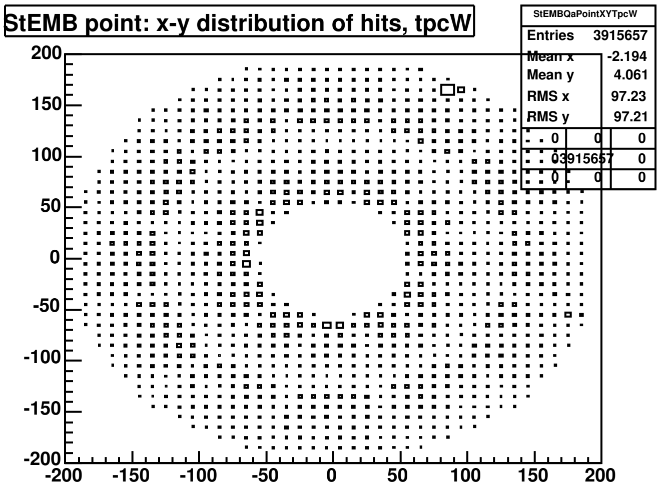
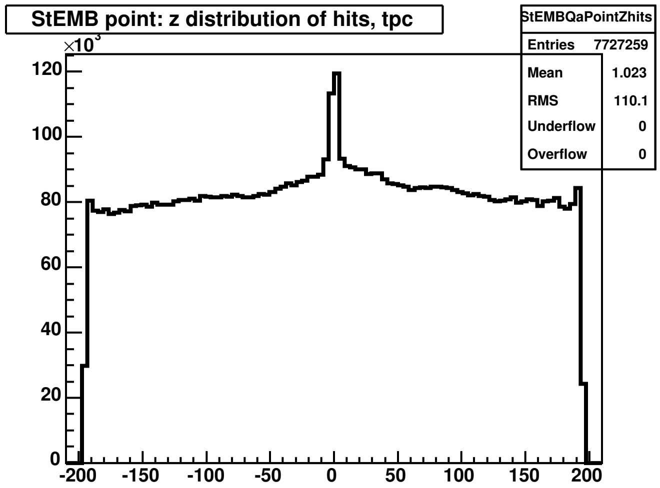
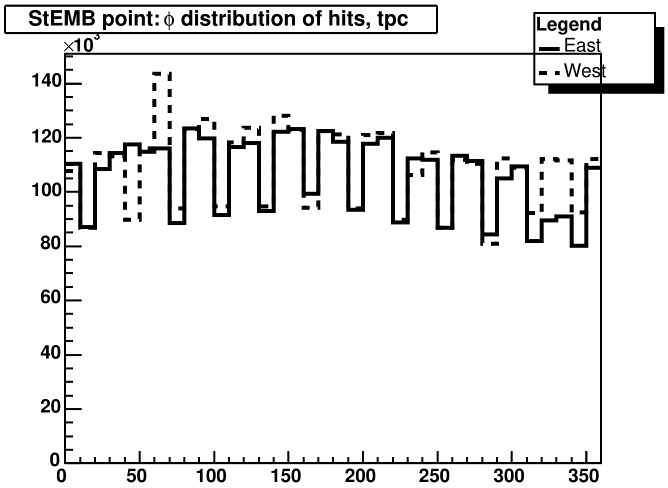


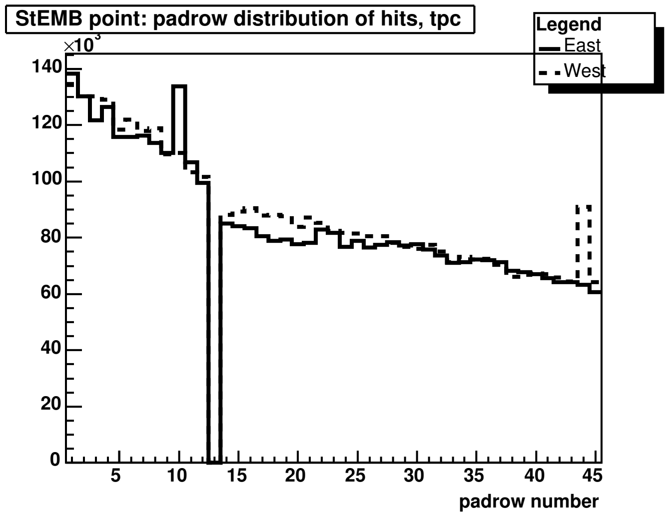
StEMB point: x-y distribution of hits, tpcW



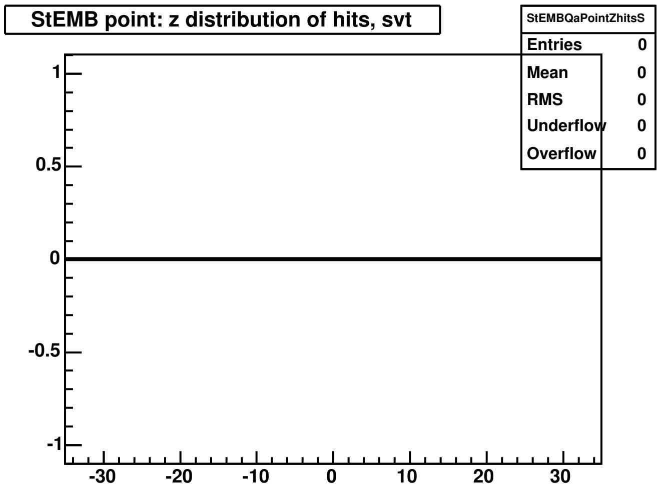
StEMB point: z distribution of hits, tpc



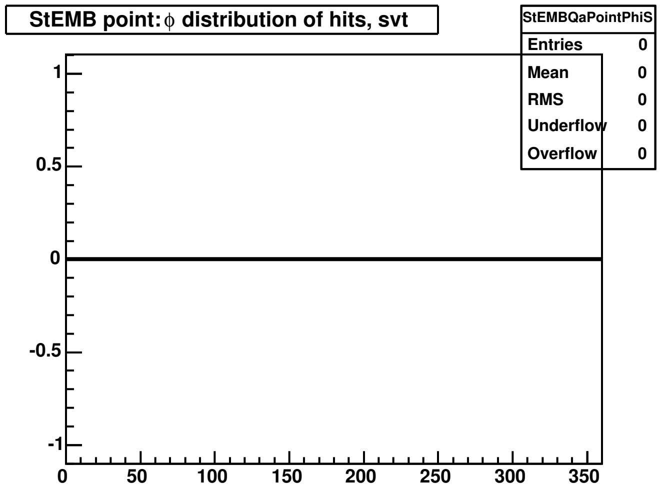
StEMB point: ϕ distribution of hits, tpc



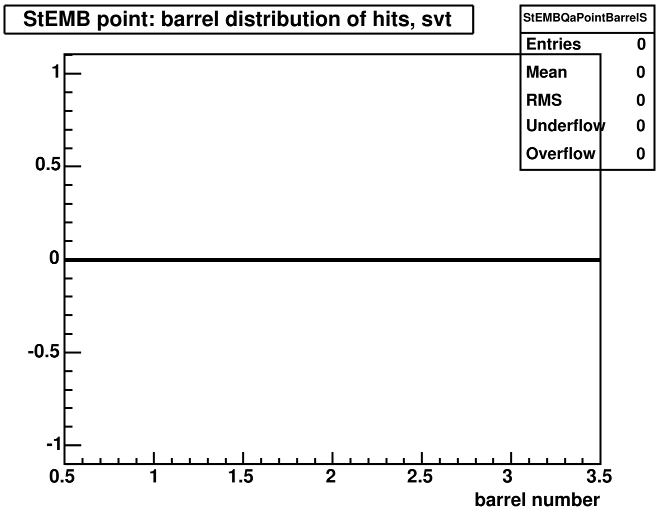
StEMB point: padrow distribution of hits, tpc

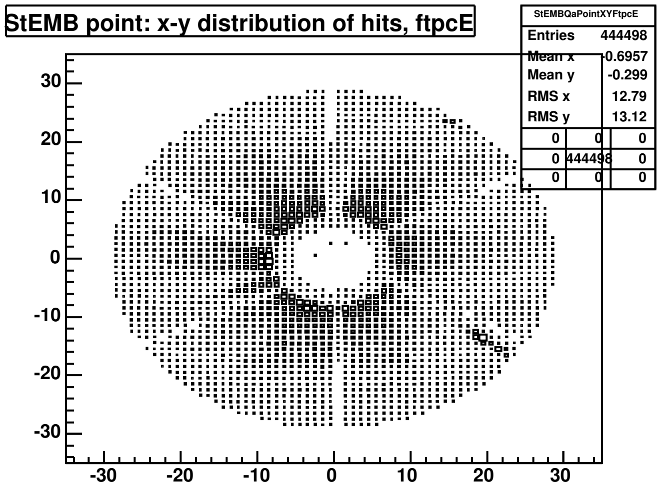


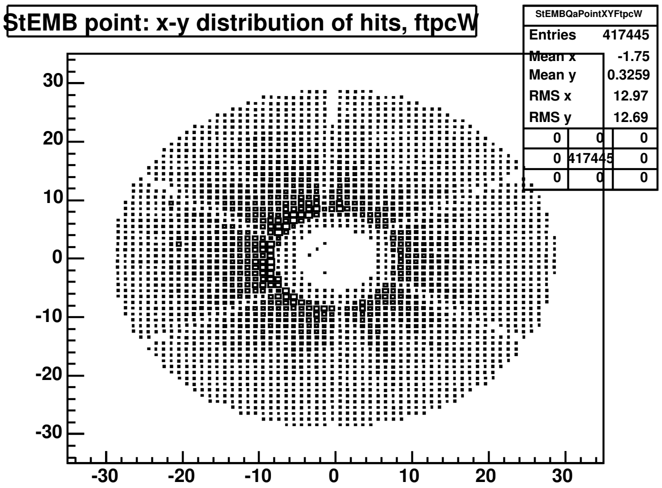
StEMB point: z distribution of hits, svt

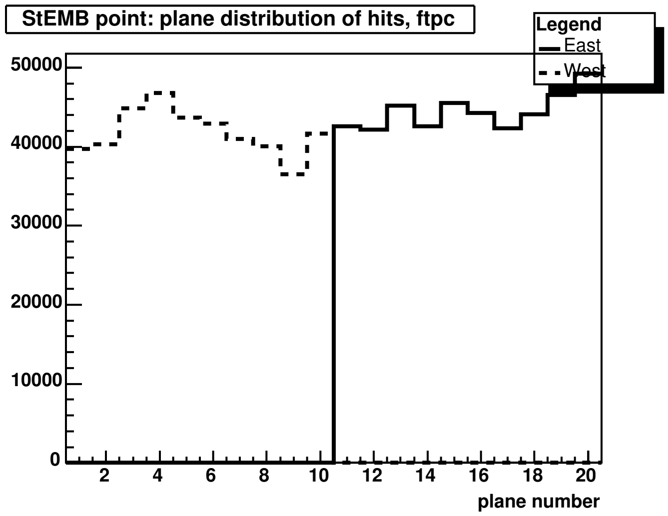


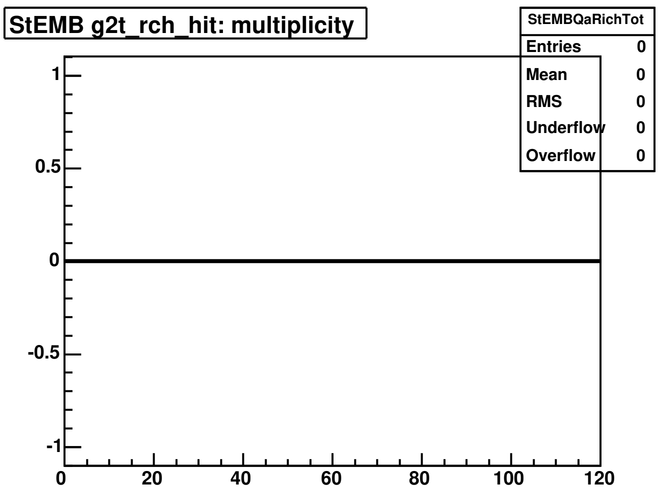
StEMB point: ϕ distribution of hits, svt

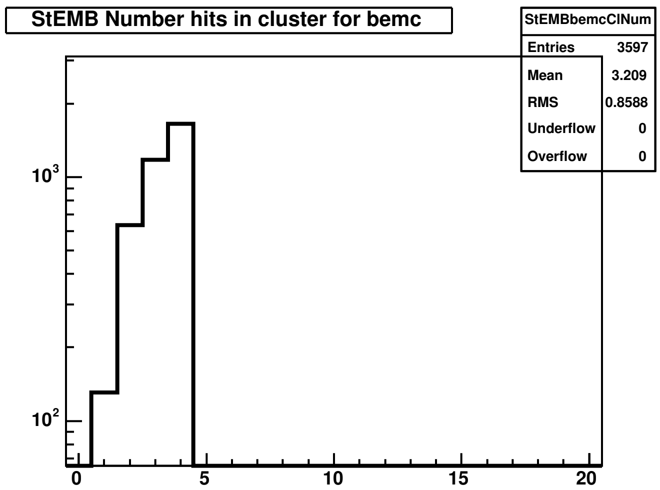

StEMB point: barrel distribution of hits, svt
StEMBQaPointBarrelS
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
barrel number

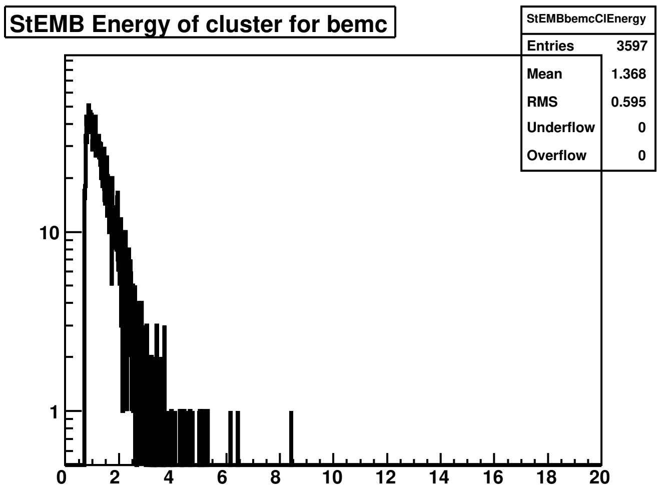

StEMB point: x-y distribution of hits, ftpcE
StEMBQaPointXYFtpcE
Entries 444498
Mean x -0.6957
Mean y -0.299
RMS x 12.79
RMS y 13.12
0 0 0
0 444498 0
0 0 0

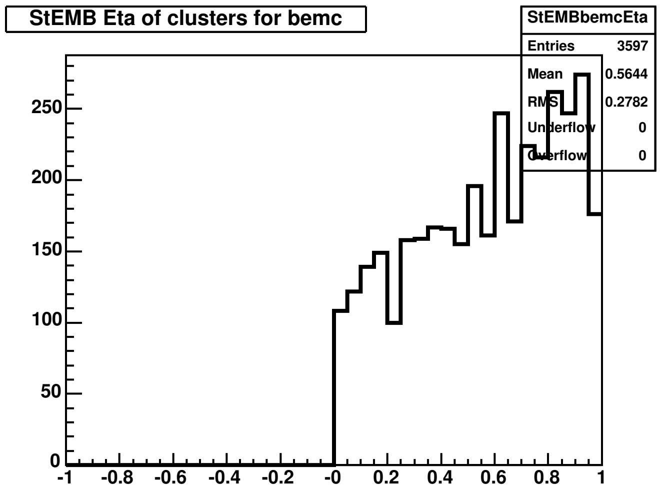

StEMB point: x-y distribution of hits, ftpcW
StEMBQaPointXYFtpcW
Entries 417445
Mean x -1.75
Mean y 0.3259
RMS x 12.97
RMS y 12.69
0 0 0
0 417445 0
0 0 0

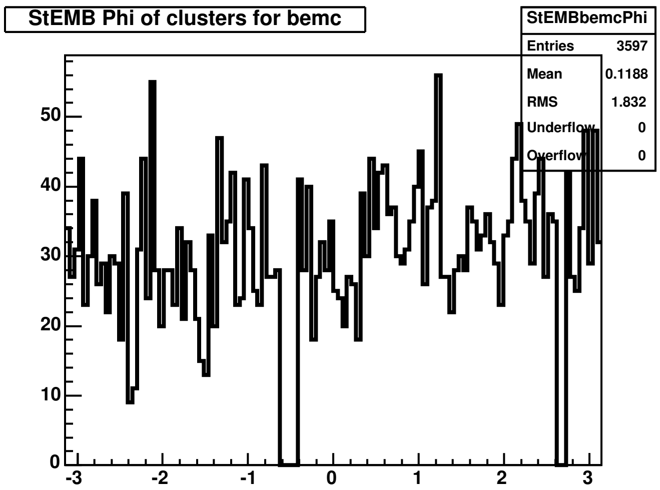

StEMB point: plane distribution of hits, ftpc
Legend
East
West
plane number

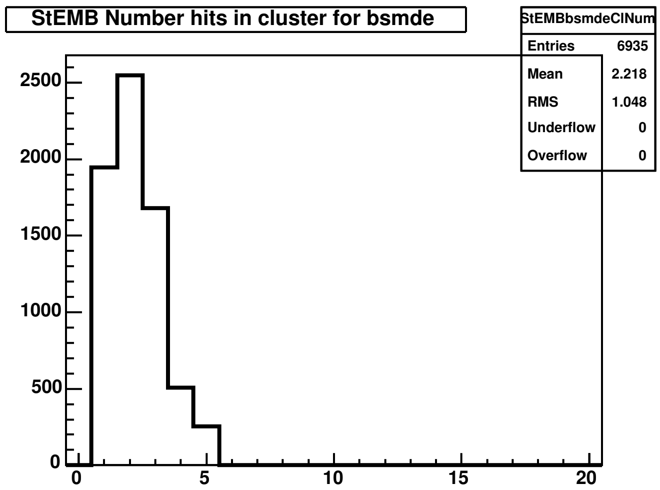

StEMB g2t_rch_hit: multiplicity
StEMBQaRichTot
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0

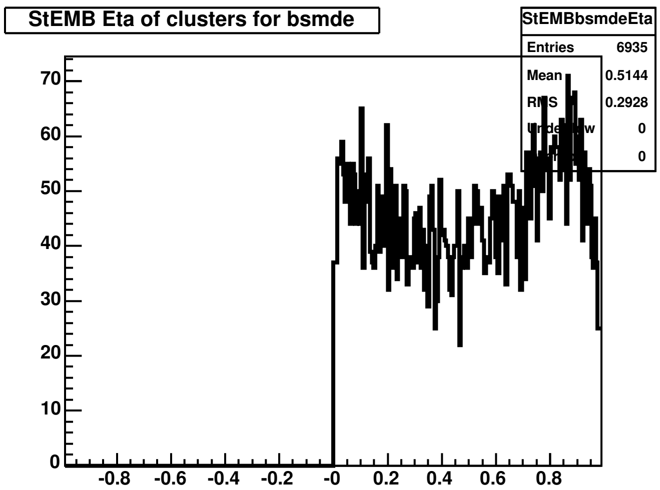

StEMB Number hits in cluster for bemc
StEMBbemcClNum
Entries 3597
Mean 3.209
RMS 0.8588
Underflow 0
Overflow 0

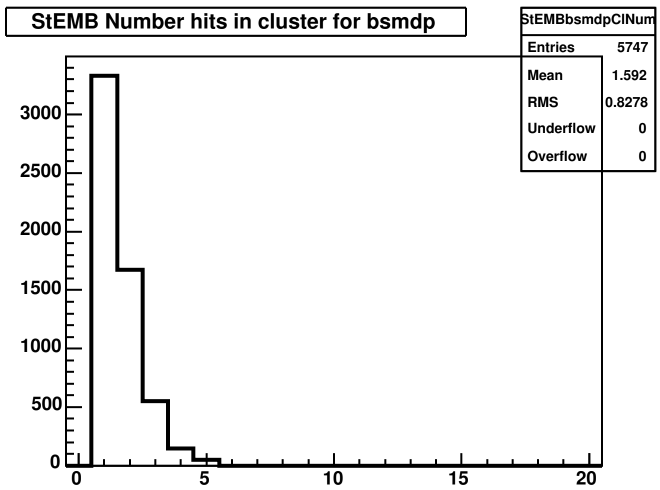

StEMB Energy of cluster for bemc
StEMBbemcClEnergy
Entries 3597
Mean 1.368
RMS 0.595
Underflow 0
Overflow 0
10
1
0 2 4 6 8 10 12 14 16 18 20

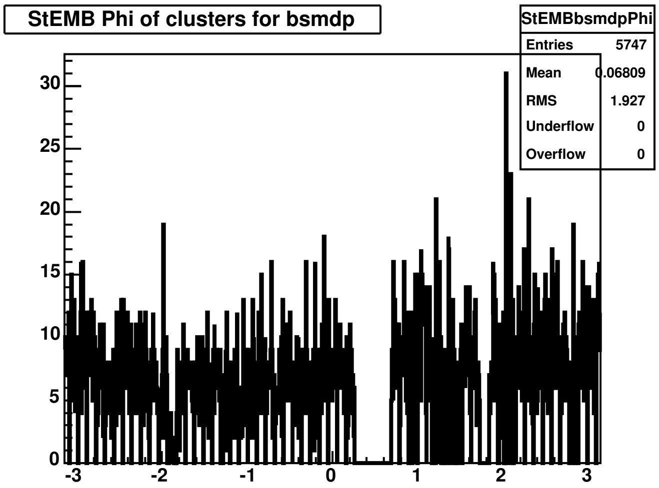

StEMB Eta of clusters for bemc
StEMBbemcEta
Entries 3597
Mean 0.5644
RMS 0.2782
Underflow 0
Overflow 0
250
200
150
100
50
0
-1 -0.8 -0.6 -0.4 -0.2 -0 0.2 0.4 0.6 0.8 1

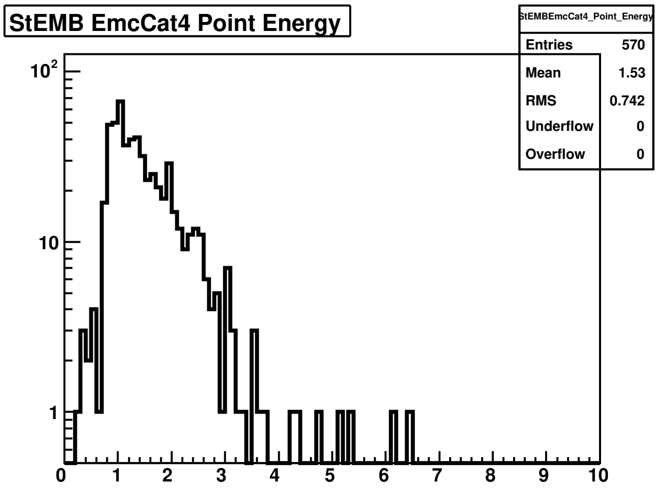

StEMB Phi of clusters for bemc
StEMBbemcPhi
Entries 3597
Mean 0.1188
RMS 1.832
Underflow 0
Overflow 0
50
40
30
20
10
0
-3 -2 -1 0 1 2 3

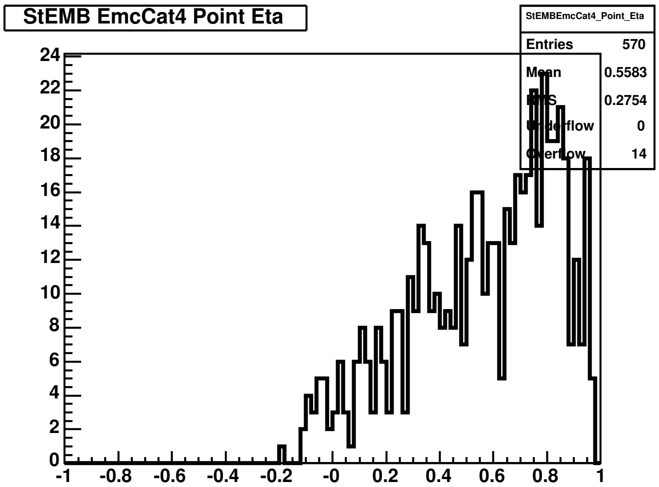

StEMB Number hits in cluster for bsmde
StEMBbsmdeClNum
Entries 6935
Mean 2.218
RMS 1.048
Underflow 0
Overflow 0
2500
2000
1500
1000
500
0
0 5 10 15 20

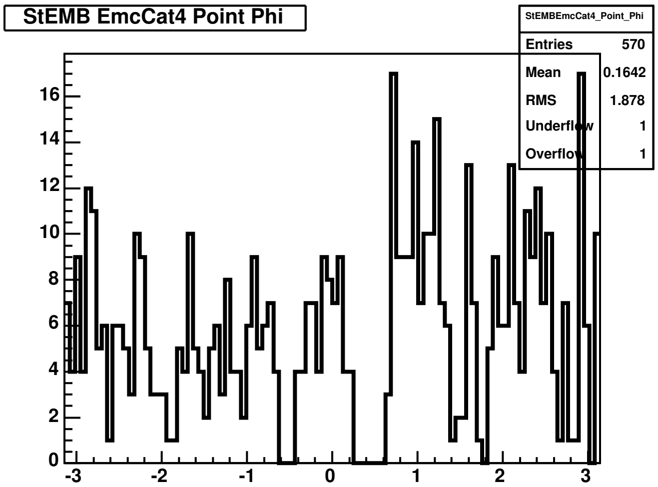

StEMB Eta of clusters for bsmde
StEMBbsmdeEta
Entries 6935
Mean 0.5144
RMS 0.2928
0
0
70
60
50
40
30
20
10
0
-0.8 -0.6 -0.4 -0.2 -0 0.2 0.4 0.6 0.8

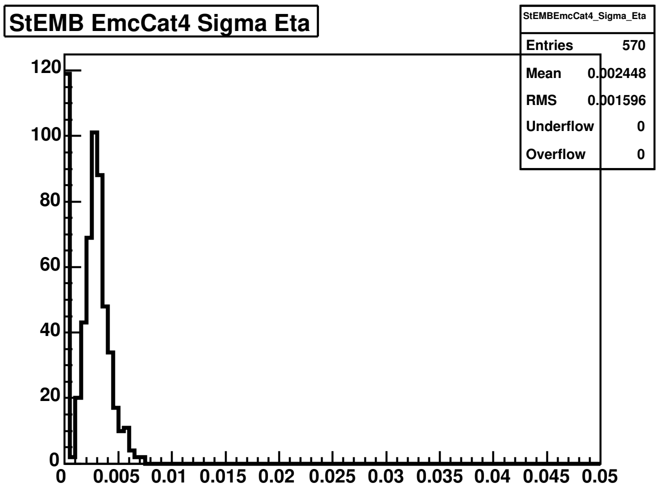

StEMB Number hits in cluster for bsmdp
StEMBbsmdpClNum
Entries 5747
Mean 1.592
RMS 0.8278
Underflow 0
Overflow 0
3000
2500
2000
1500
1000
500
0
0 5 10 15 20

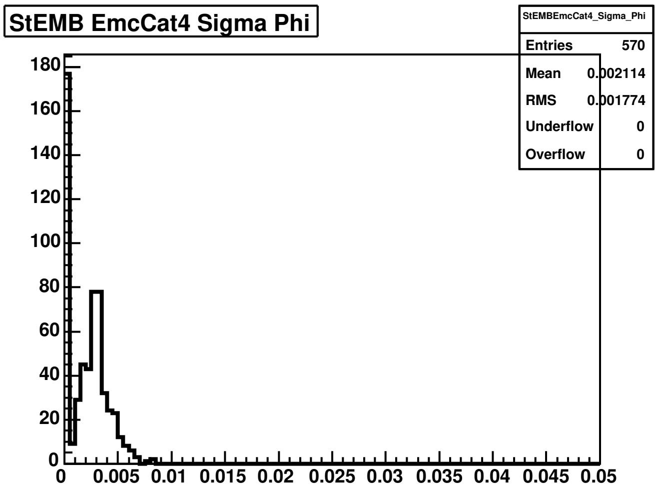

StEMB Phi of clusters for bsmdp
StEMBbsmdpPhi
Entries 5747
Mean 0.06809
RMS 1.927
Underflow 0
Overflow 0

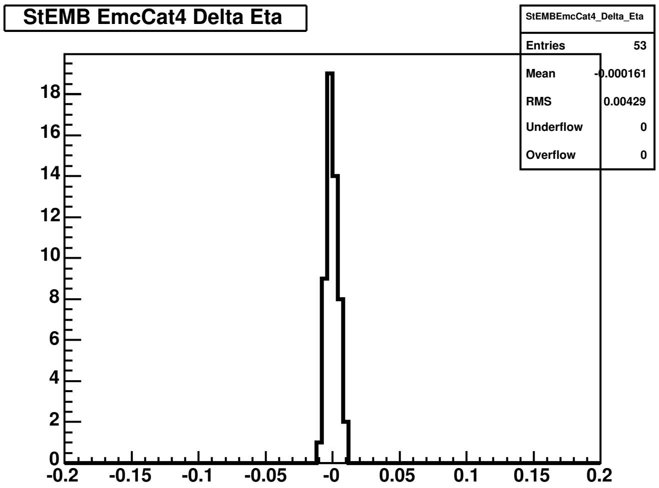

StEMB EmcCat4 Point Energy
StEMBEmcCat4_Point_Energy
Entries 570
Mean 1.53
RMS 0.742
Underflow 0
Overflow 0

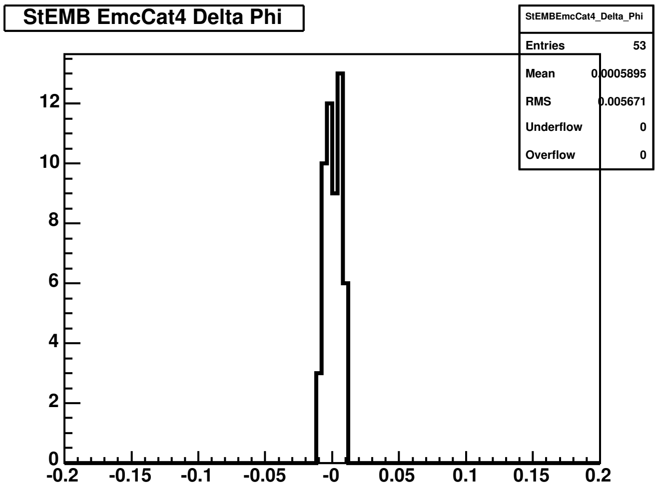

StEMB EmcCat4 Point Eta
StEMBEmcCat4_Point_Eta
Entries 570
Mean 0.5583
RMS 0.2754
Underflow 0
Overflow 14

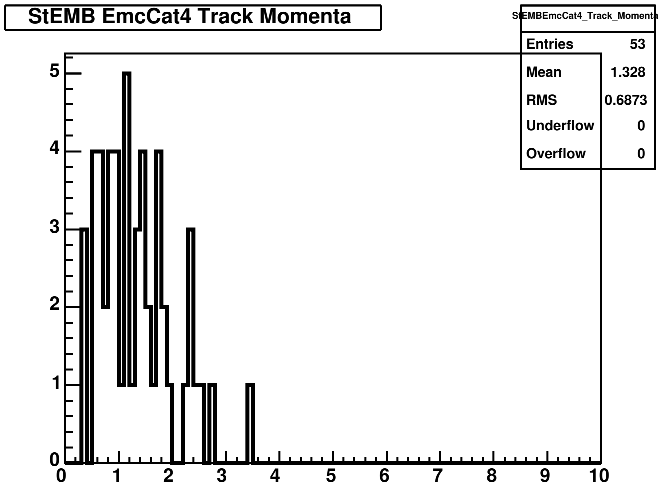

StEMB EmcCat4 Point Phi
StEMBEmcCat4_Point_Phi
Entries 570
Mean 0.1642
RMS 1.878
Underflow 1
Overflow 1

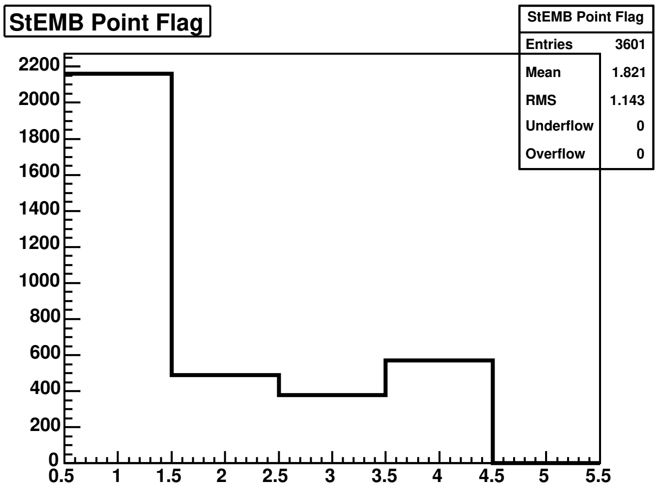

StEMB EmcCat4 Sigma Eta
StEMBEmcCat4_Sigma_Eta
Entries 570
Mean 0.002448
RMS 0.001596
Underflow 0
Overflow 0

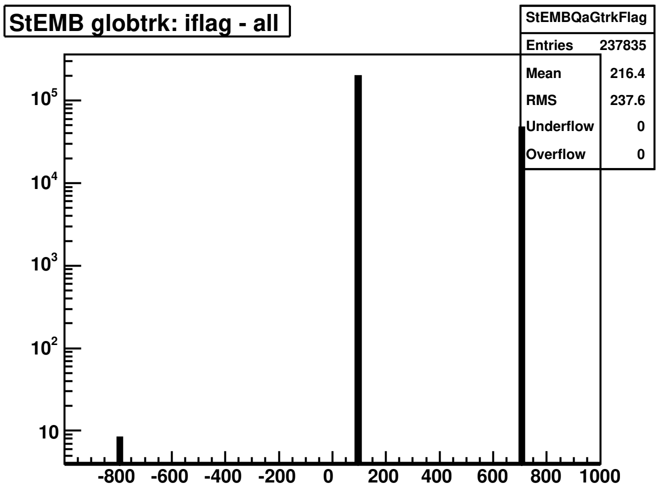

StEMB EmcCat4 Sigma Phi
StEMBEmcCat4_Sigma_Phi
Entries 570
Mean 0.002114
RMS 0.001774
Underflow 0
Overflow 0

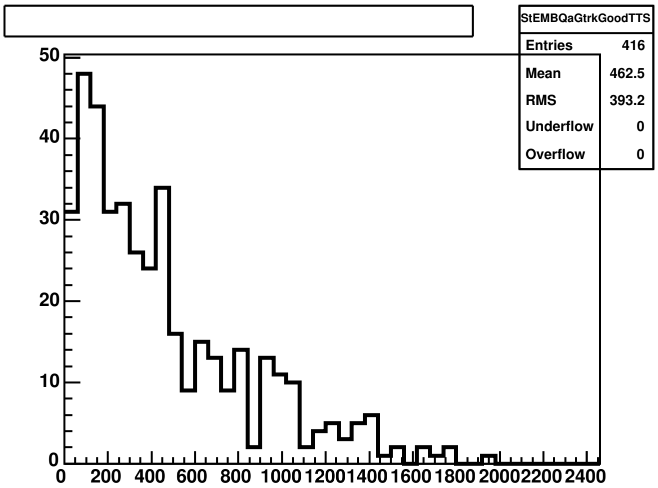

StEMB EmcCat4 Delta Eta
StEMBEmcCat4_Delta_Eta
Entries 53
Mean -0.000161
RMS 0.00429
Underflow 0
Overflow 0
0 2 4 6 8 10 12 14 16 18
-0.2 -0.15 -0.1 -0.05 -0 0.05 0.1 0.15 0.2


StEMB EmcCat4 Delta Phi
StEMBEmcCat4_Delta_Phi
Entries 53
Mean 0.0005895
RMS 0.005671
Underflow 0
Overflow 0
0 2 4 6 8 10 12
-0.2 -0.15 -0.1 -0.05 -0 0.05 0.1 0.15 0.2

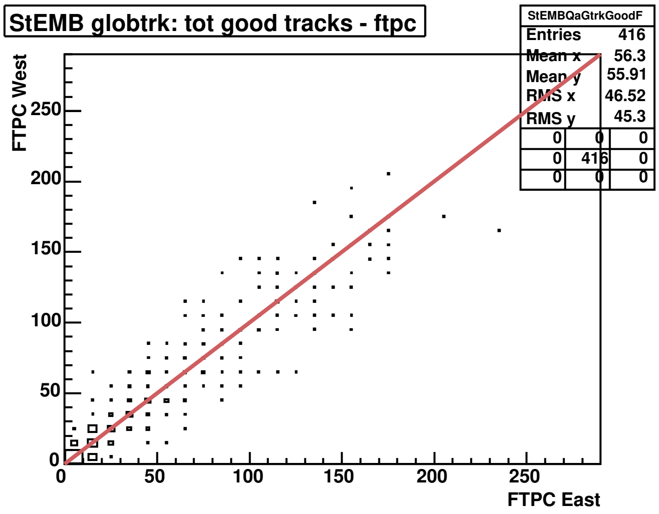

StEMB EmcCat4 Track Momenta
StEMBEmcCat4_Track_Momenta
Entries 53
Mean 1.328
RMS 0.6873
Underflow 0
Overflow 0
0 1 2 3 4 5
0 1 2 3 4 5 6 7 8 9 10

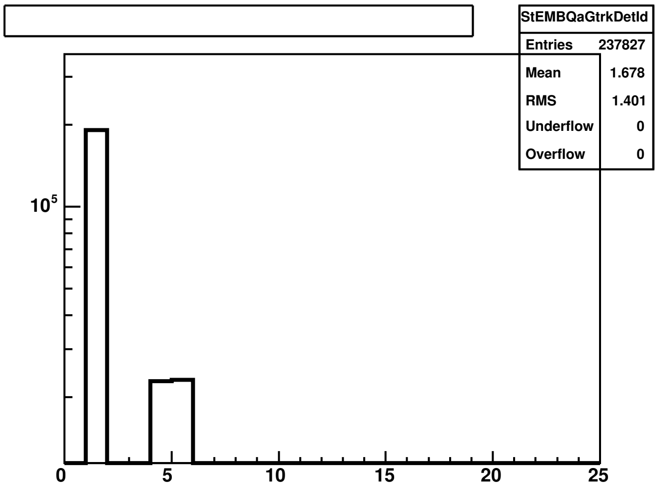

StEMB Point Flag
StEMB Point Flag
Entries 3601
Mean 1.821
RMS 1.143
Underflow 0
Overflow 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200
0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5

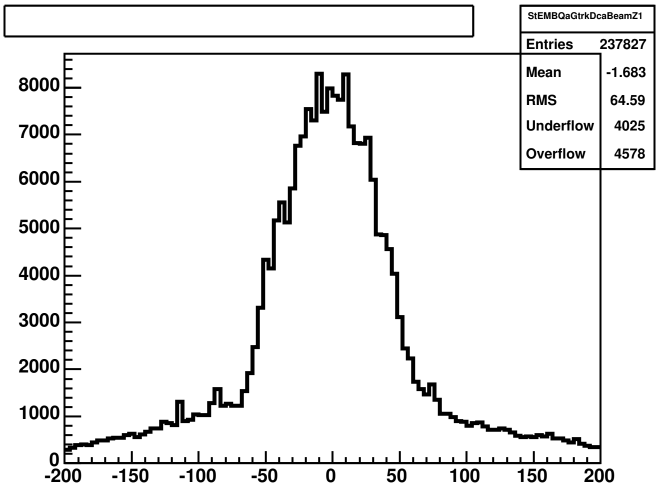

StEMB globtrk: iflag - all
StEMBQaGtrkFlag
Entries 237835
Mean 216.4
RMS 237.6
Underflow 0
Overflow 0
10 10^2 10^3 10^4 10^5
-800 -600 -400 -200 0 200 400 600 800 1000

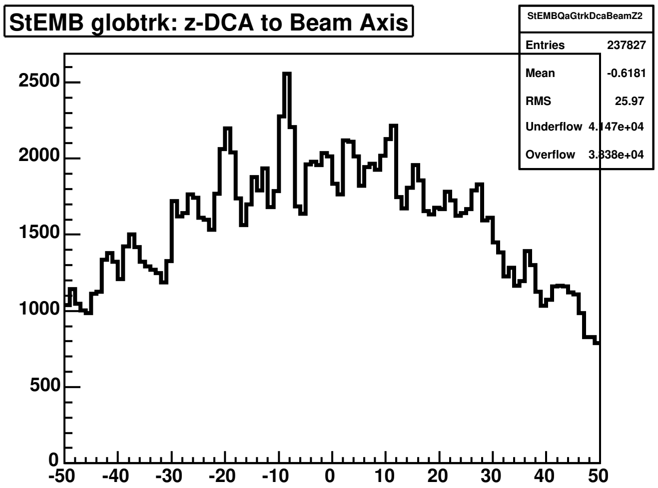

StEMBQaGtrkGoodTTS
Entries 416
Mean 462.5
RMS 393.2
Underflow 0
Overflow 0
0 10 20 30 40 50
0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400

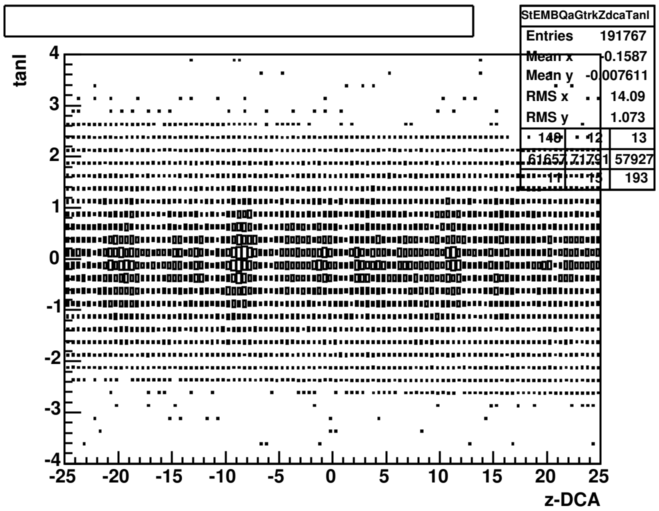
MinBias Hists

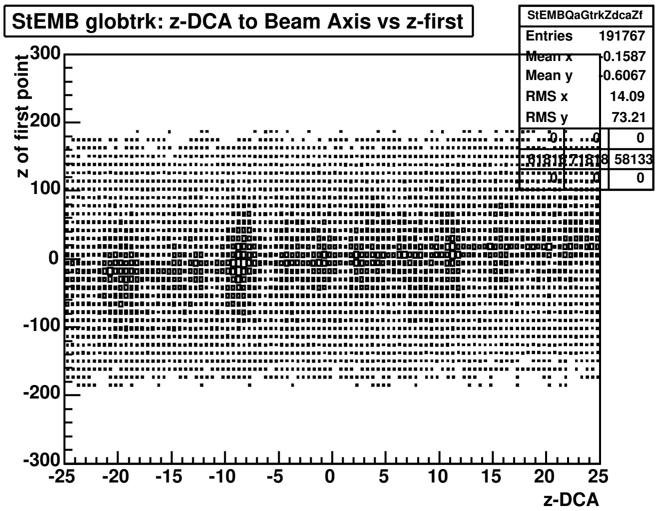


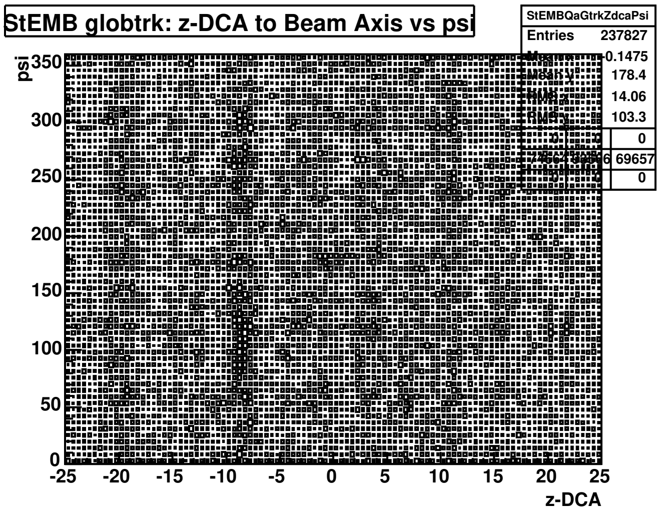


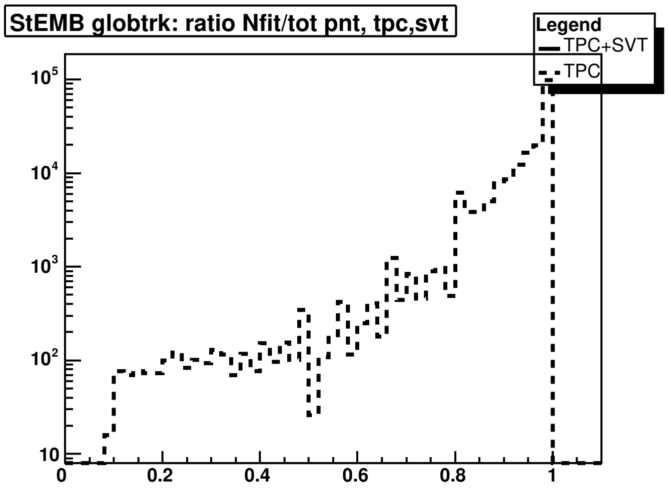


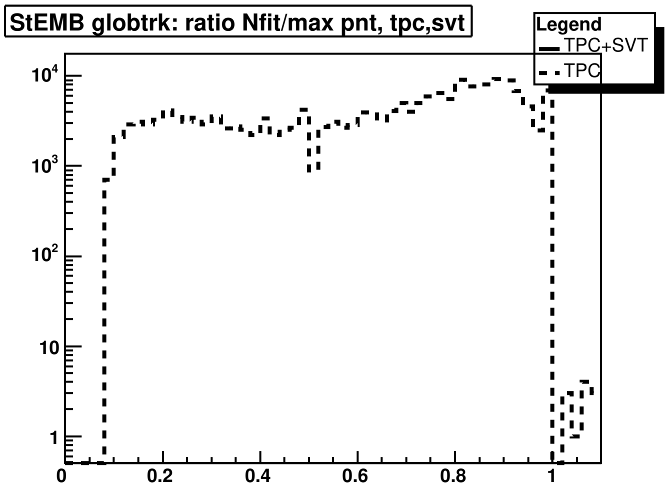


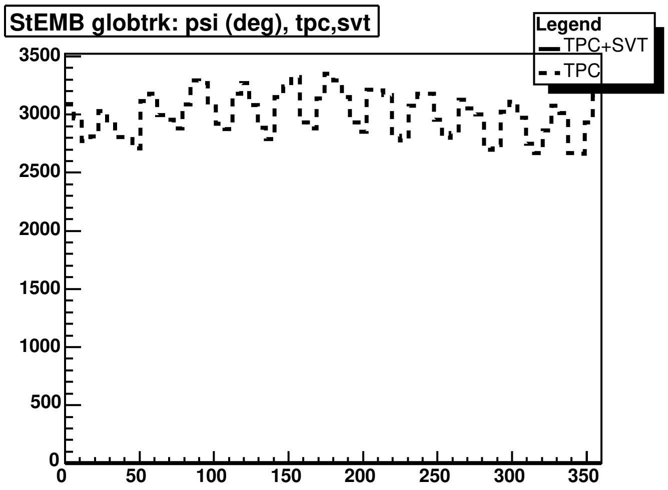


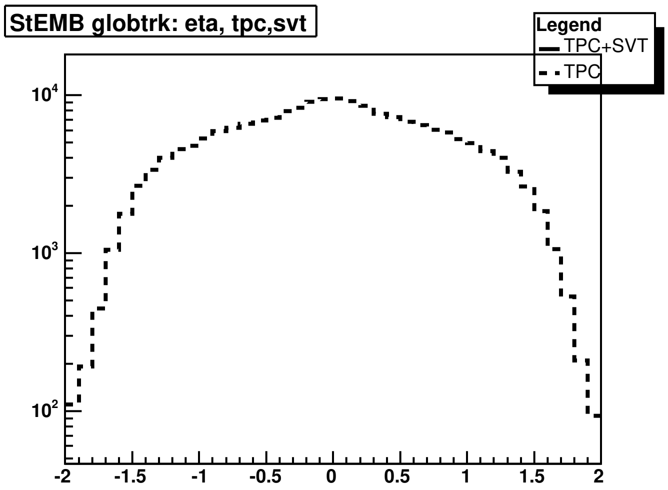


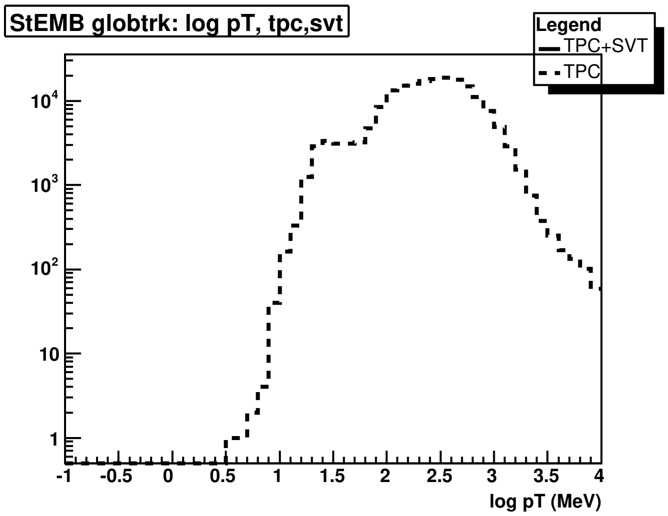

StEMB globtrk: z-DCA to Beam Axis vs psi
StEMBQaGtrkZdcaPsi
Entries 237827
-0.1475
178.4
14.06
103.3
0
69657
0
psi
z-DCA

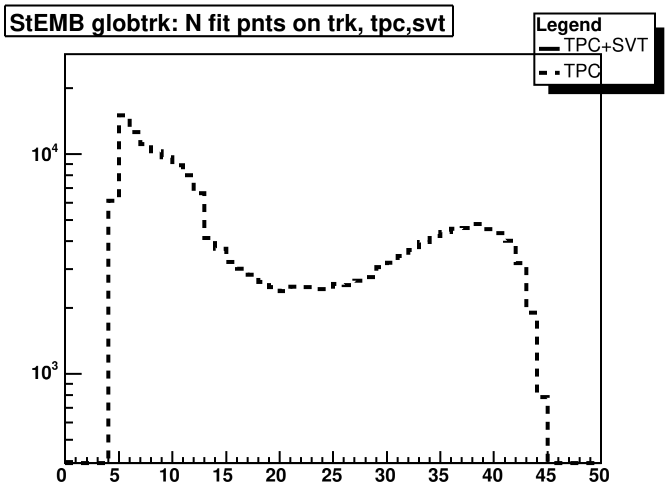

StEMB globtrk: ratio Nfit/tot pnt, tpc,svt
Legend
TPC+SVT
TPC

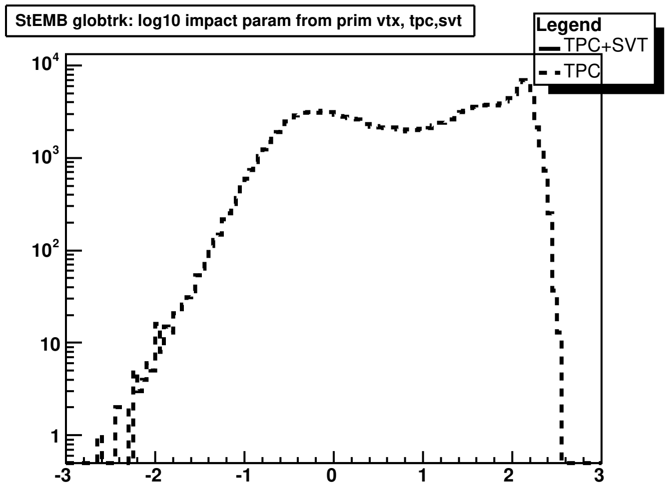

StEMB globtrk: ratio Nfit/max pnt, tpc,svt
Legend
TPC+SVT
TPC

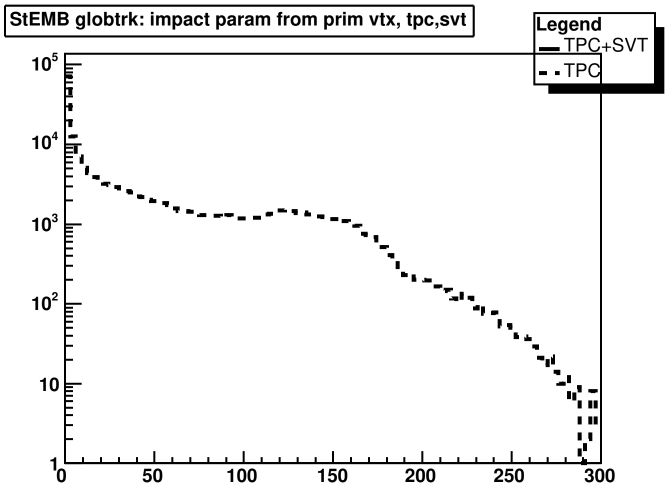

StEMB globtrk: psi (deg), tpc,svt
Legend
TPC+SVT
TPC

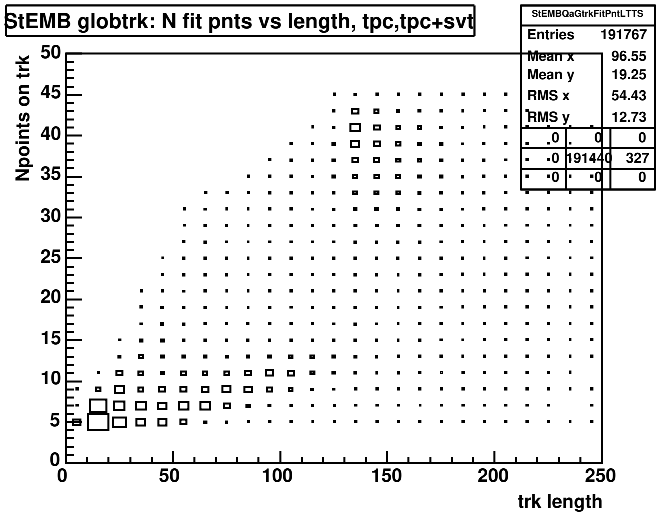

StEMB globtrk: eta, tpc,svt
Legend
TPC+SVT
TPC

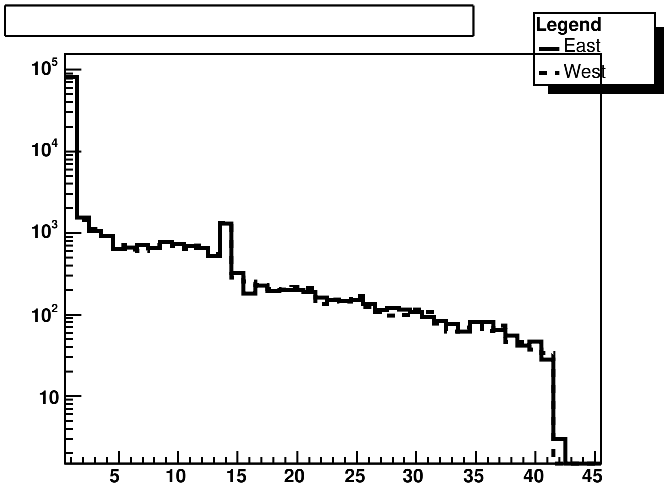

StEMB globtrk: log pT, tpc,svt
Legend
TPC+SVT
TPC
log pT (MeV)

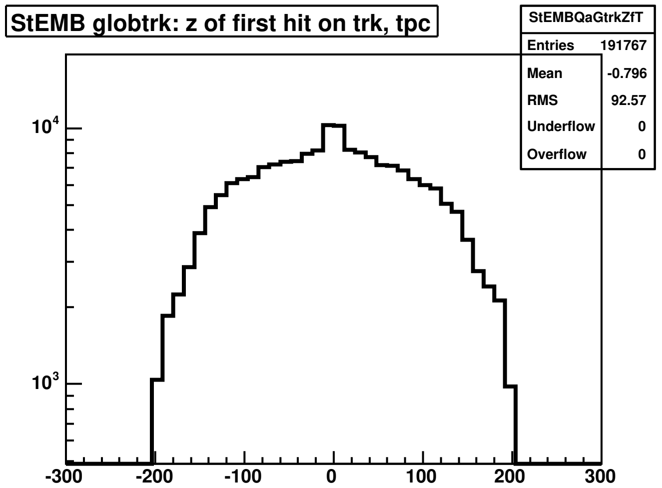

StEMB globtrk: N fit pnts on trk, tpc,svt
Legend
TPC+SVT
TPC
0 5 10 15 20 25 30 35 40 45 50


StEMB globtrk: log10 impact param from prim vtx, tpc,svt
Legend
TPC+SVT
TPC
-3 -2 -1 0 1 2 3

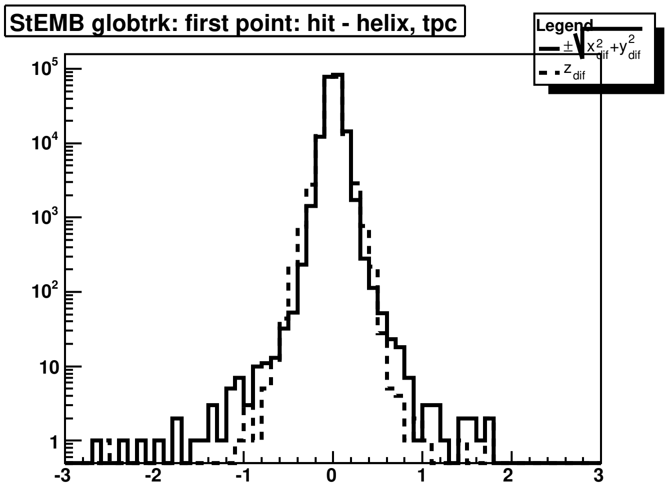

StEMB globtrk: impact param from prim vtx, tpc,svt
Legend
TPC+SVT
TPC
0 50 100 150 200 250 300

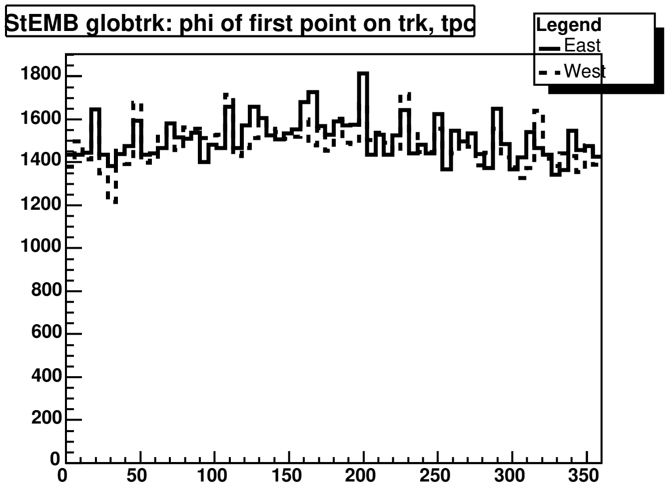

StEMB globtrk: N fit pnts vs length, tpc,tpc+svt
StEMBQaGtrkFitPntLTTS
Entries 191767
Mean x 96.55
Mean y 19.25
RMS x 54.43
RMS y 12.73
0 0 0
0 191440 327
0 0 0
Npoints on trk
trk length

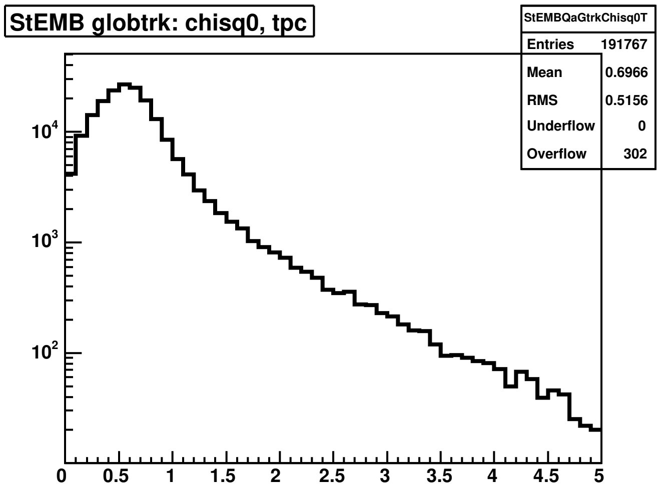

Legend
East
West
5 10 15 20 25 30 35 40 45

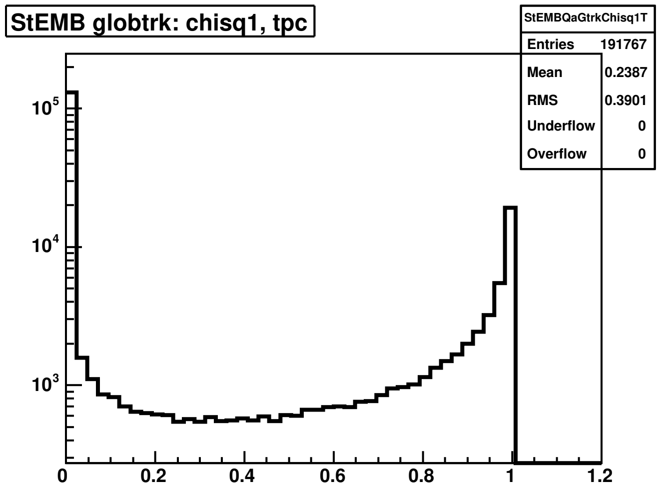

StEMB globtrk: z of first hit on trk, tpc
StEMBQaGtrkZfT
Entries 191767
Mean -0.796
RMS 92.57
Underflow 0
Overflow 0
-300 -200 -100 0 100 200 300

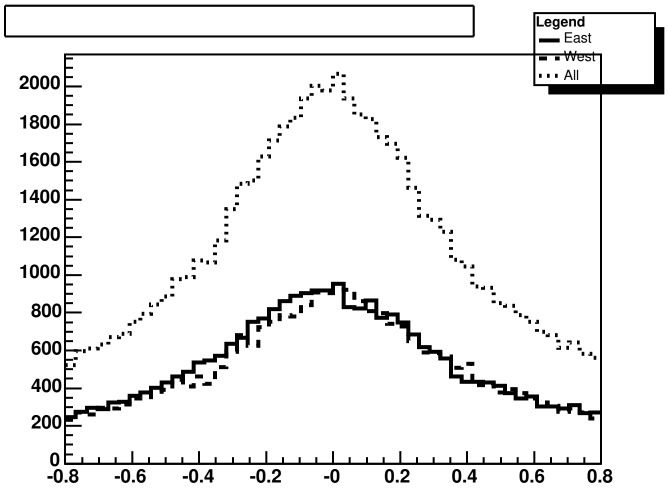
MinBias Hists

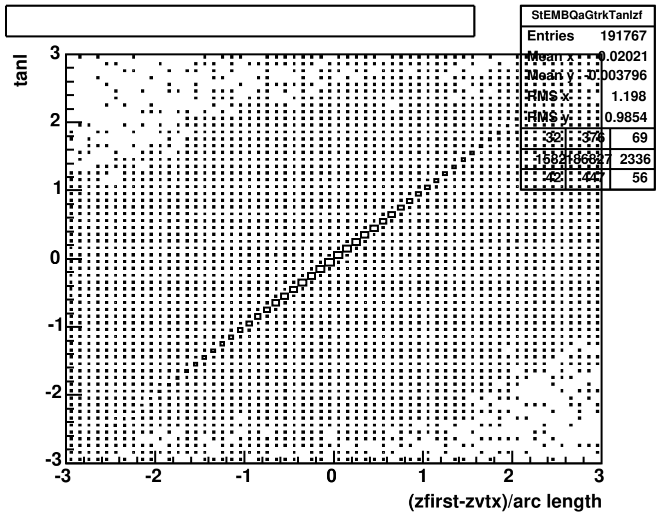


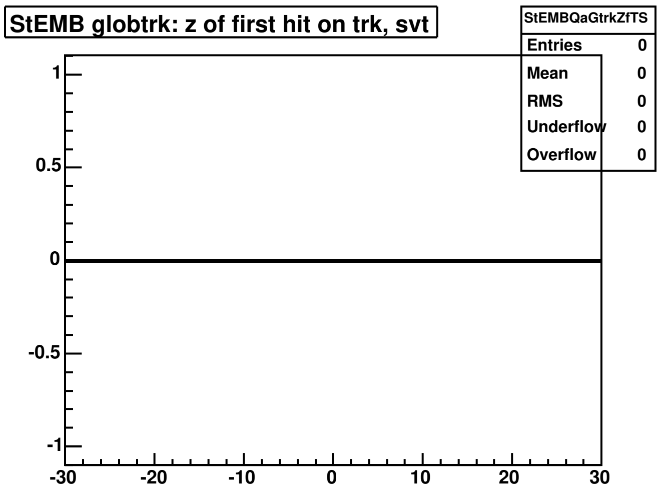


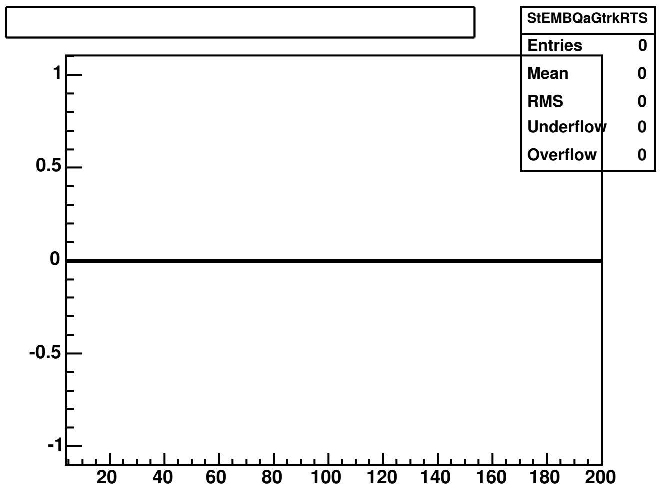


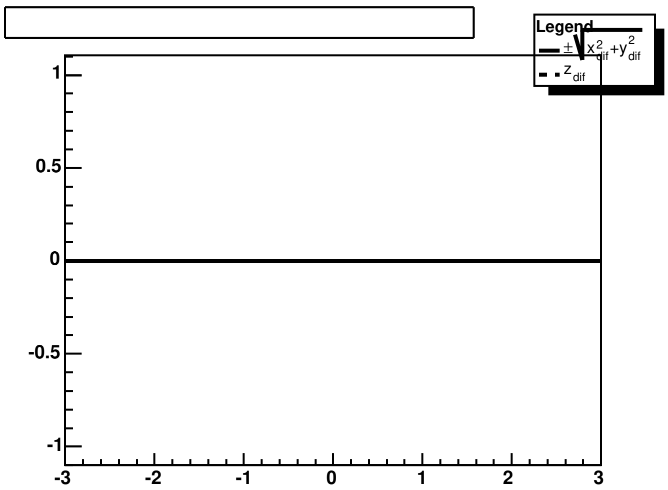


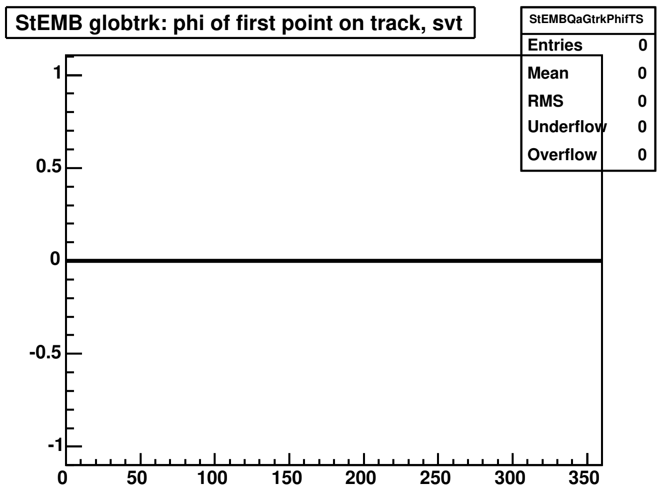


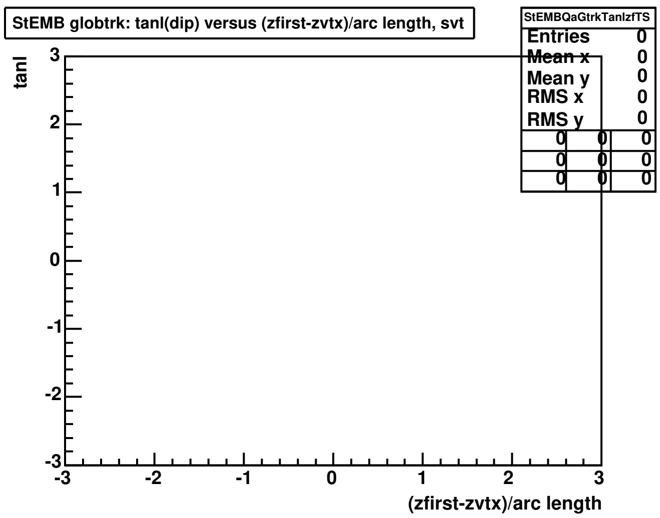


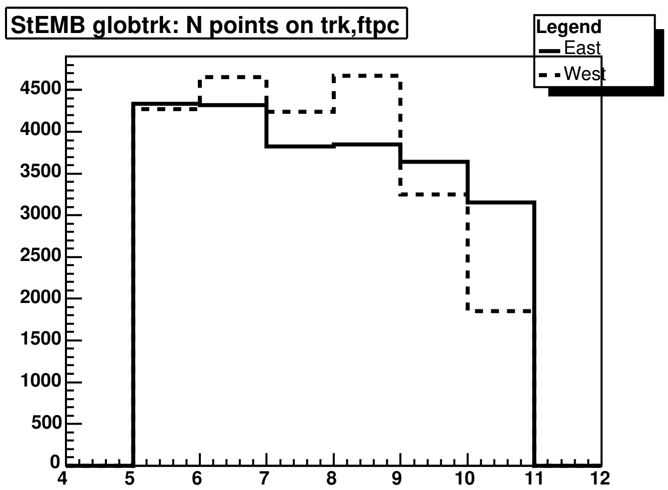

StEMB globtrk: z of first hit on trk, svt
StEMBQaGtrkZfTS
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
-30 -20 -10 0 10 20 30
1 0.5 0 -0.5 -1

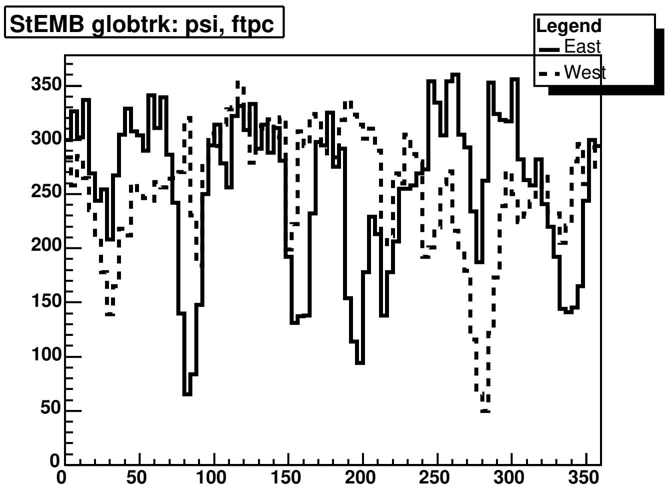

StEMBQaGtrkRTS
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
20 40 60 80 100 120 140 160 180 200
1 0.5 0 -0.5 -1

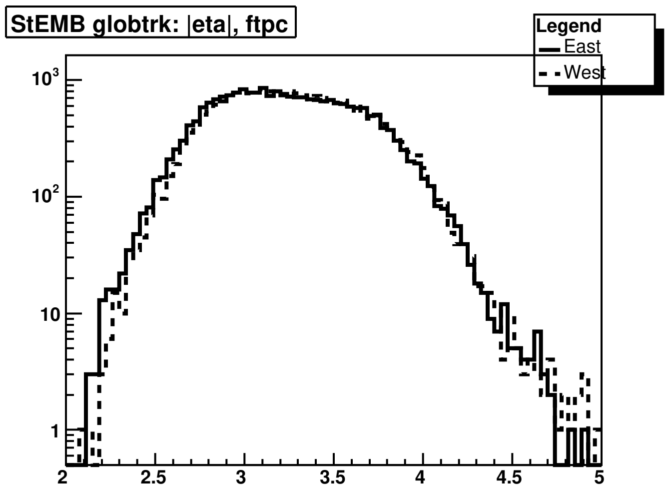

Legend
$\pm\sqrt{x_{dif}^2+y_{dif}^2}$
z_{dif}
-3 -2 -1 0 1 2 3
1 0.5 0 -0.5 -1

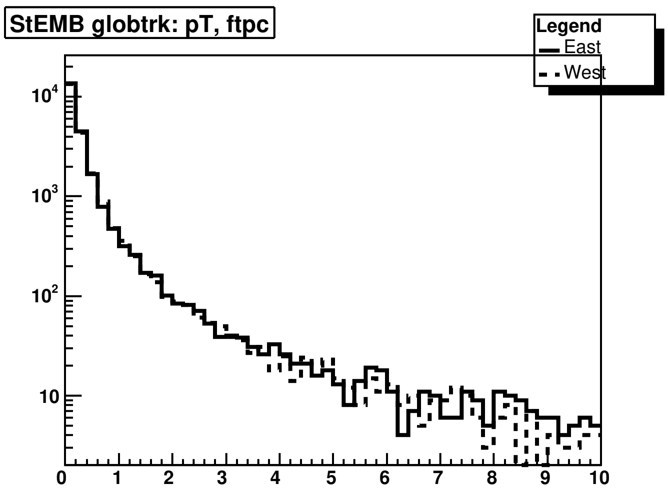

StEMB globtrk: phi of first point on track, svt
StEMBQaGtrkPhifTS
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
0 50 100 150 200 250 300 350
1 0.5 0 -0.5 -1

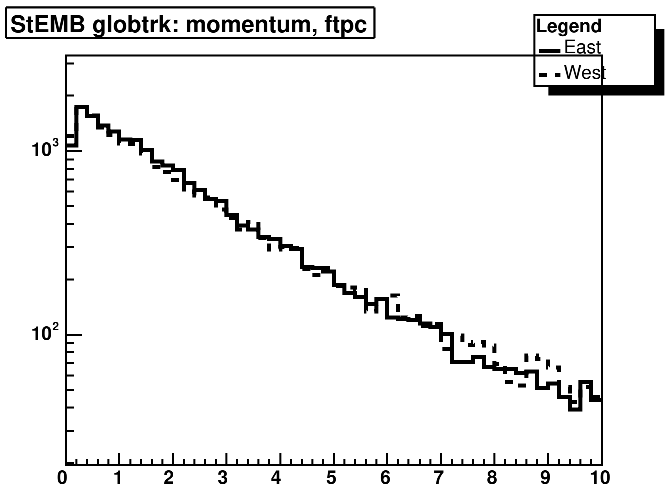

StEMB globtrk: tanl(dip) versus (zfirst-zvtx)/arc length, svt
StEMBQaGtrkTanlzfTS
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
0 0 0
0 0 0
0 0 0
tanl
(zfirst-zvtx)/arc length
-3 -2 -1 0 1 2 3

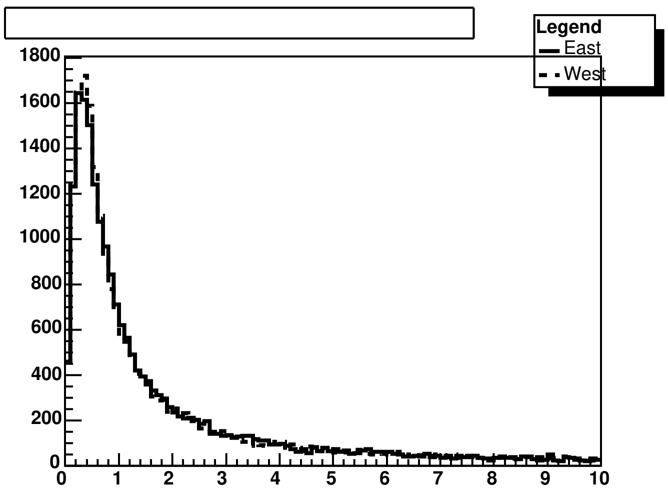

StEMB globtrk: N points on trk,ftpc
Legend
East
West
4 5 6 7 8 9 10 11 12
0 500 1000 1500 2000 2500 3000 3500 4000 4500

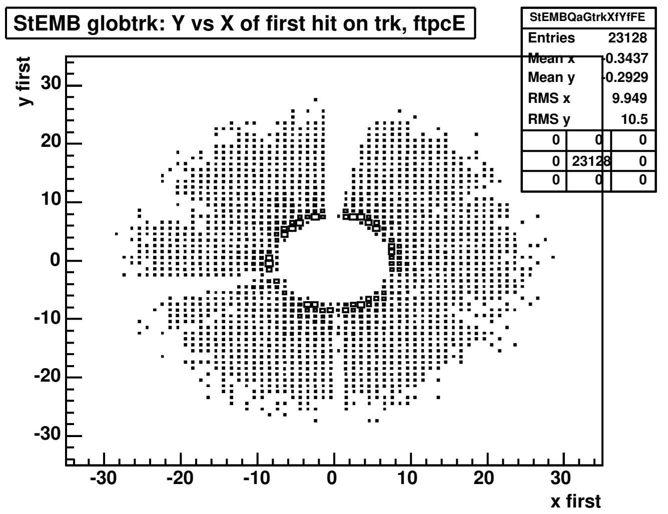

StEMB globtrk: psi, ftpc
Legend
East
West

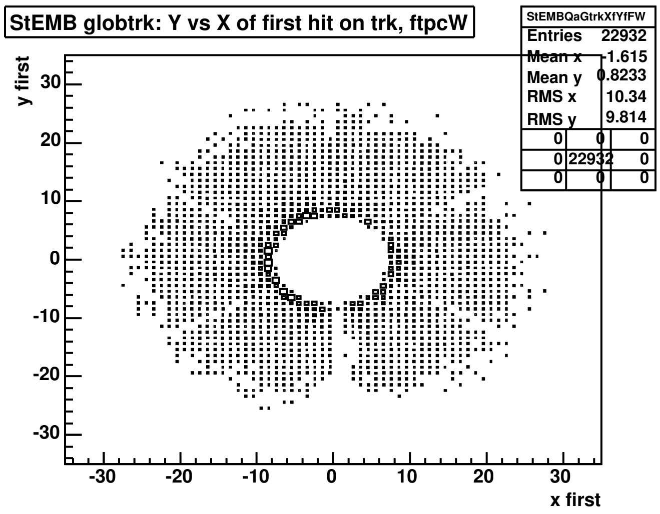

StEMB globtrk: |eta|, ftpc
Legend
East
West

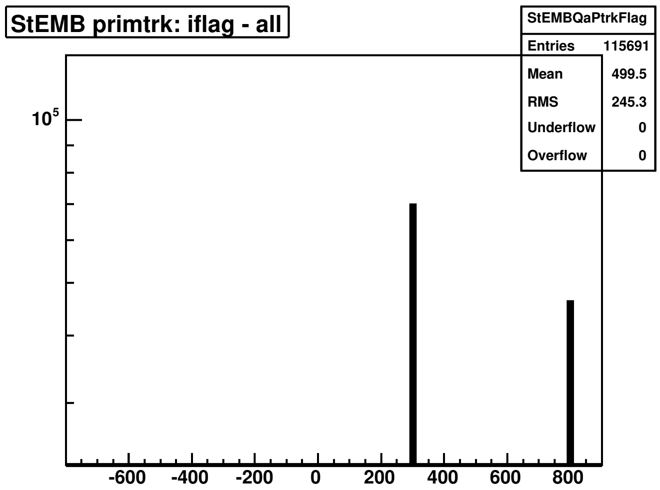

StEMB globtrk: pT, ftpc
Legend
East
West

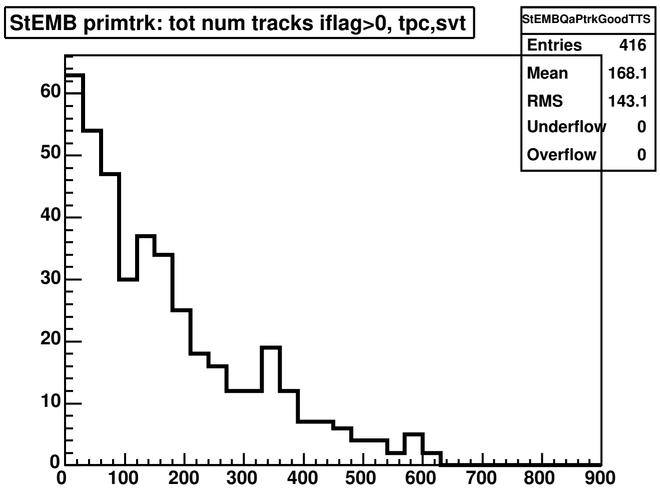

StEMB globtrk: momentum, ftpc
Legend
East
West

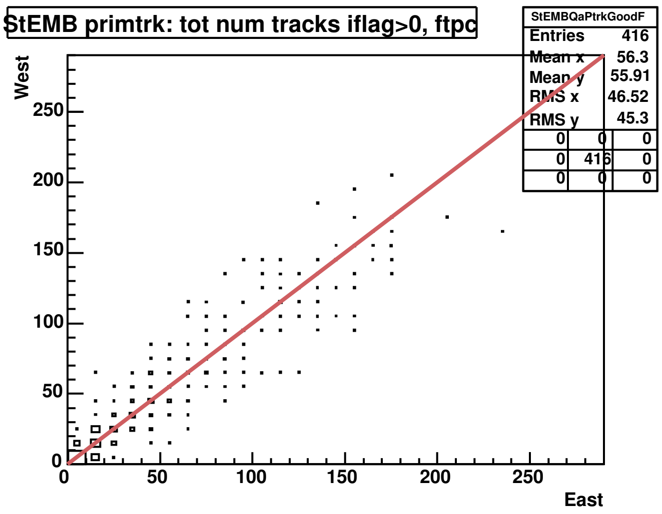

Legend
East
West

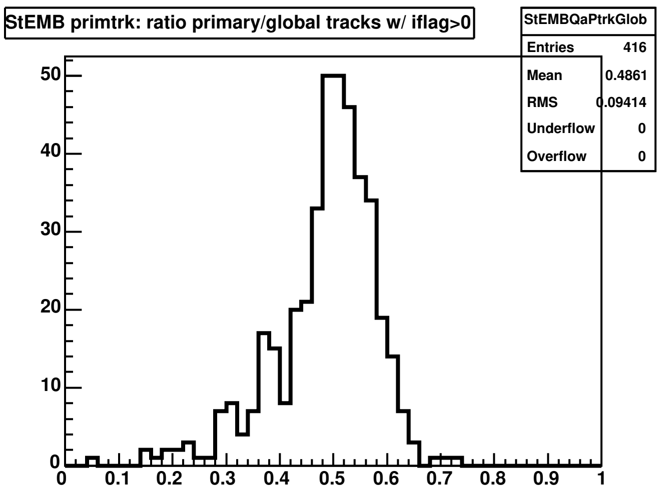

StEMB globtrk: Y vs X of first hit on trk, ftpcE
StEMBQaGtrkXfYfFE
Entries 23128
Mean x -0.3437
Mean y -0.2929
RMS x 9.949
RMS y 10.5
y first
x first

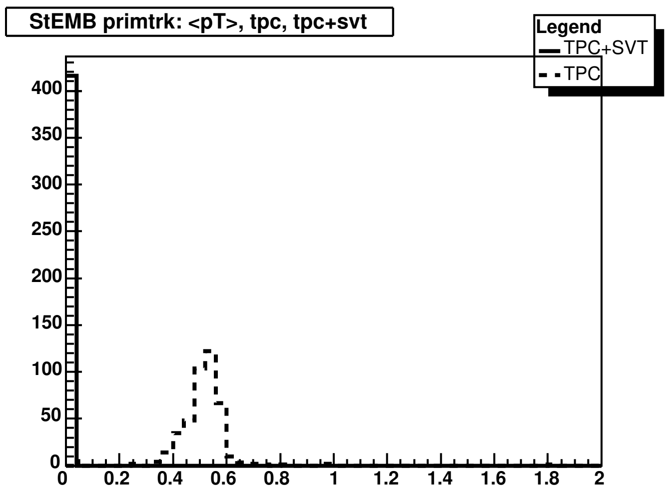

StEMB globtrk: Y vs X of first hit on trk, ftpcW
StEMBQaGtrkXfYfFW
Entries 22932
Mean x -1.615
Mean y 0.8233
RMS x 10.34
RMS y 9.814
y first
x first


StEMB primtrk: iflag - all
StEMBQaPtrkFlag
Entries 115691
Mean 499.5
RMS 245.3
Underflow 0
Overflow 0

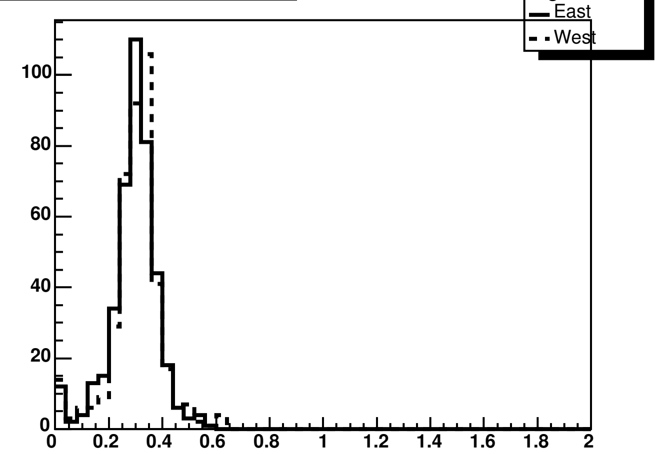

StEMB primtrk: tot num tracks iflag>0, tpc,svt
StEMBQaPtrkGoodTTS
Entries 416
Mean 168.1
RMS 143.1
Underflow 0
Overflow 0


StEMB primtrk: tot num tracks iflag>0, ftpc
StEMBQaPtrkGoodF
Entries 416
Mean x 56.3
Mean y 55.91
RMS x 46.52
RMS y 45.3
West
East

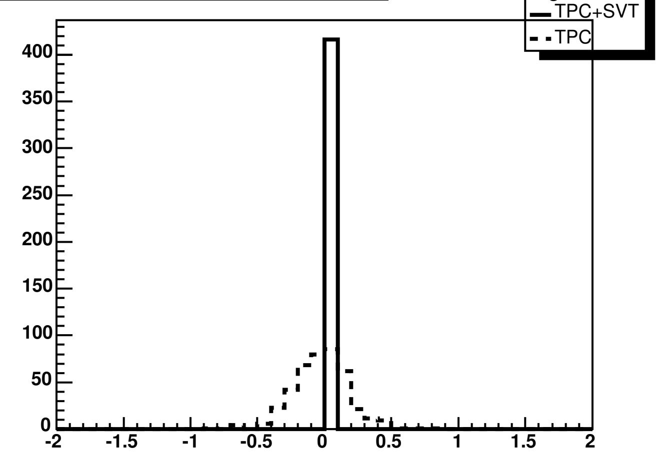

StEMB primtrk: ratio primary/global tracks w/ iflag>0
StEMBQaPtrkGlob
Entries 416
Mean 0.4861
RMS 0.09414
Underflow 0
Overflow 0


StEMB primtrk: <pT>, tpc, tpc+svt
Legend
TPC+SVT
TPC

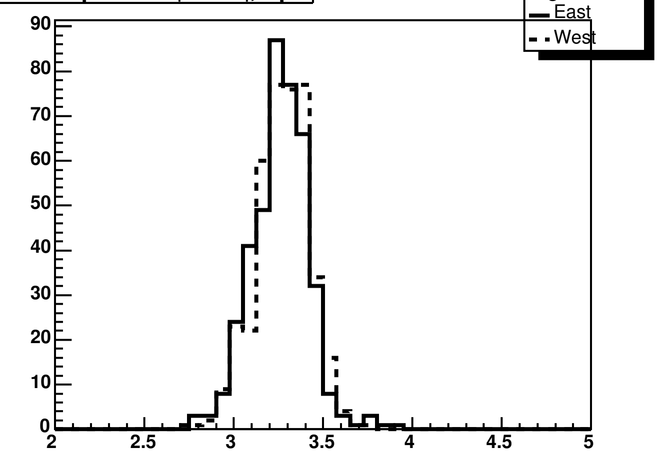
StEMB primtrk: <pT>, ftpc



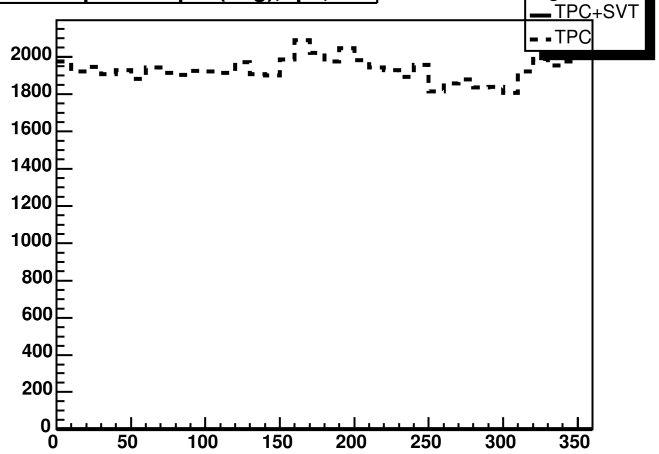
StEMB primtrk: <eta>, tpc, tpc+svt



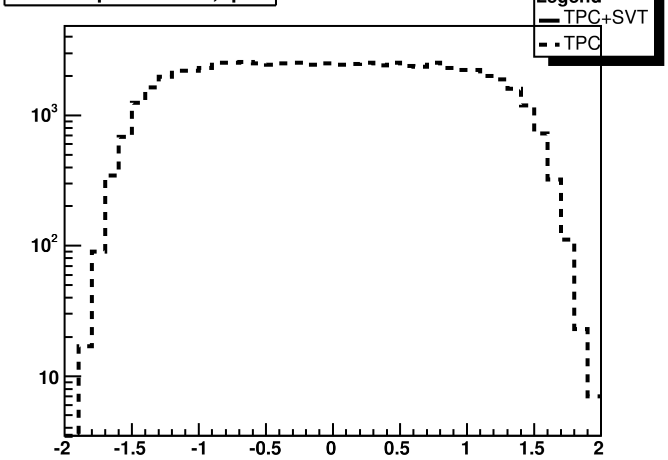
StEMB primtrk: |<eta>|, ftpc



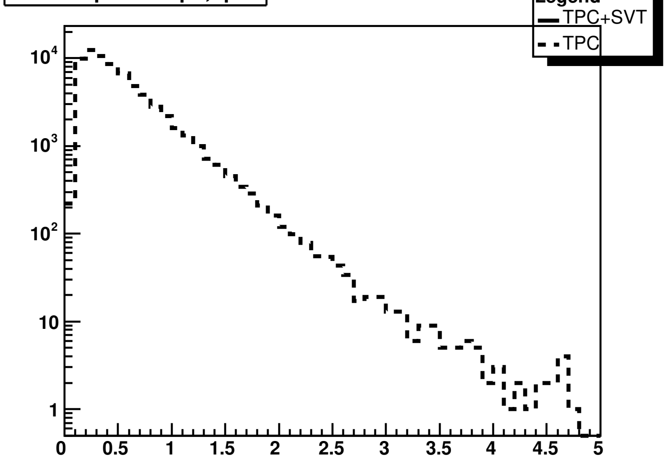
StEMB primtrk: psi (deg), tpc, svt



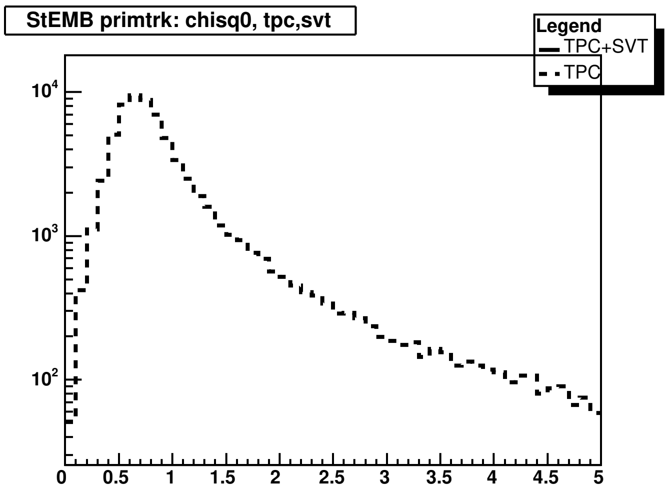
StEMB primtrk: eta, tpc

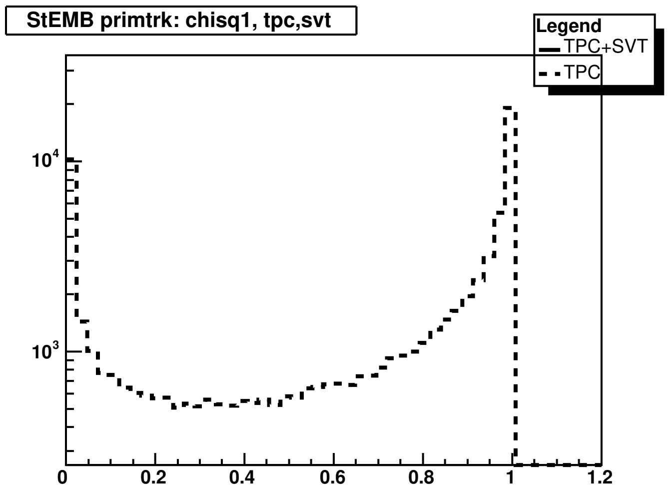


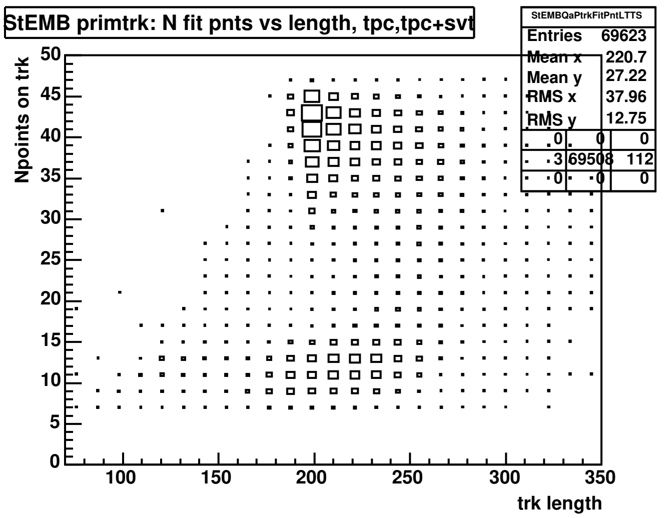
StEMB primtrk: pT, tpc

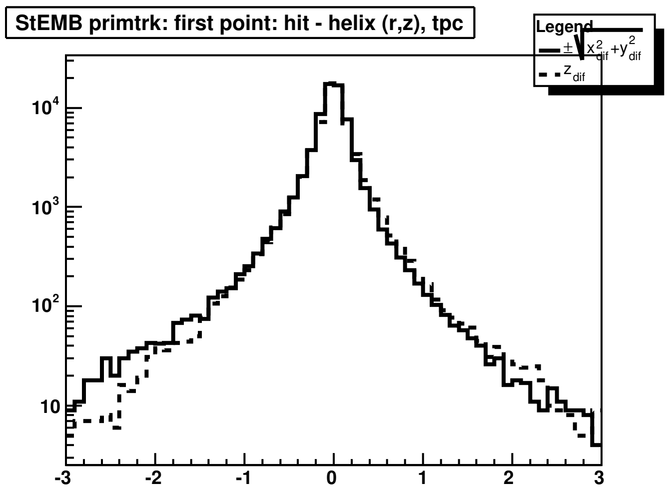


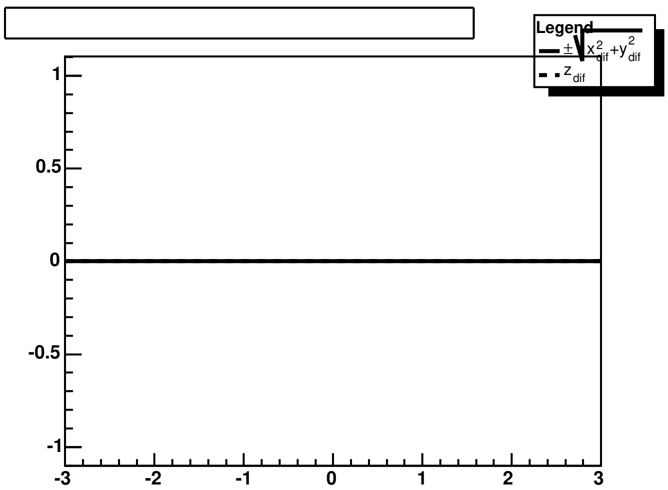
MinBias Hists

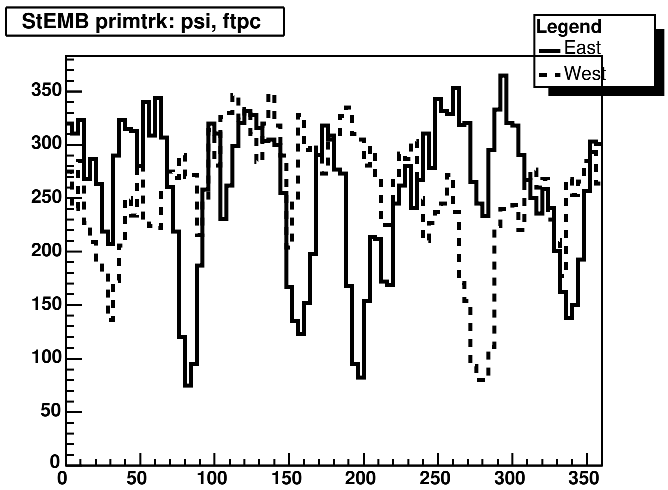


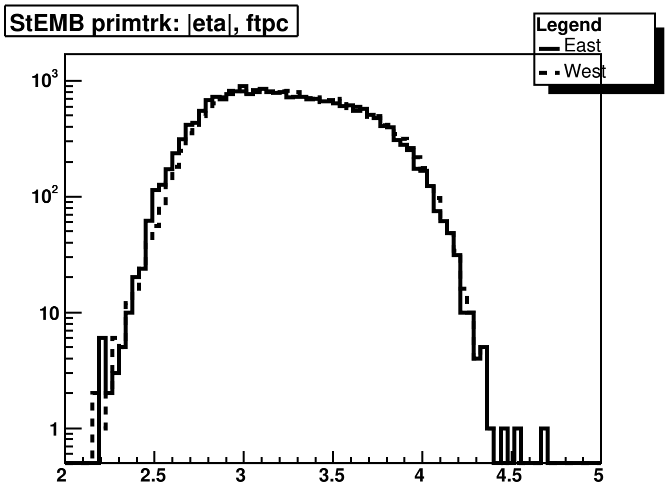


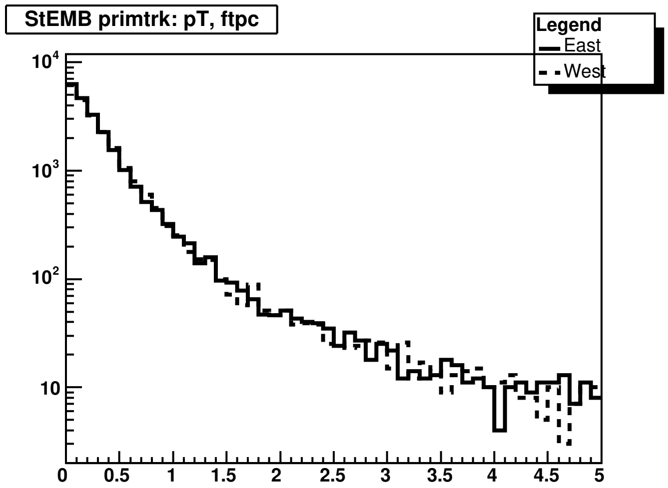


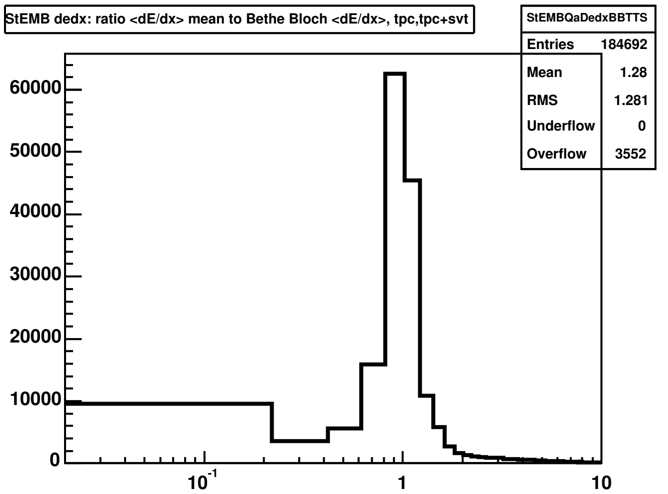


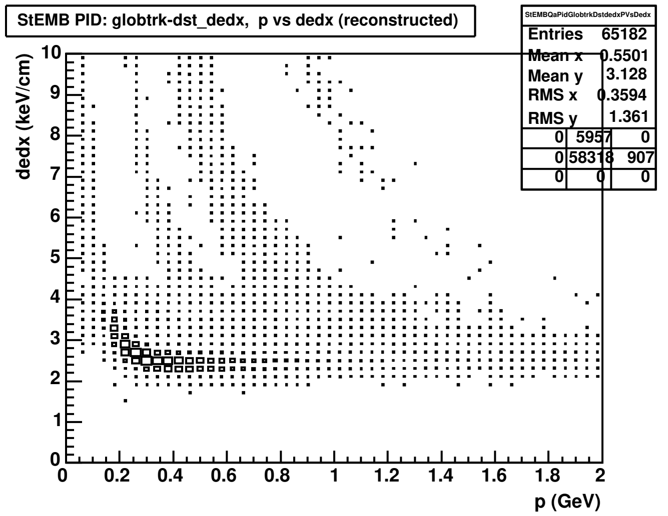


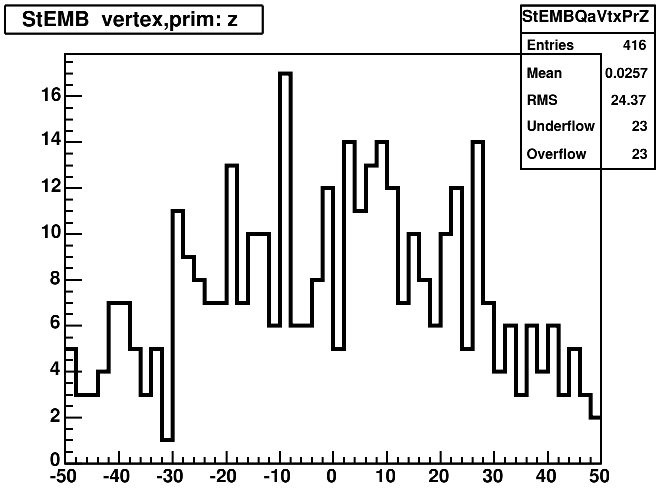


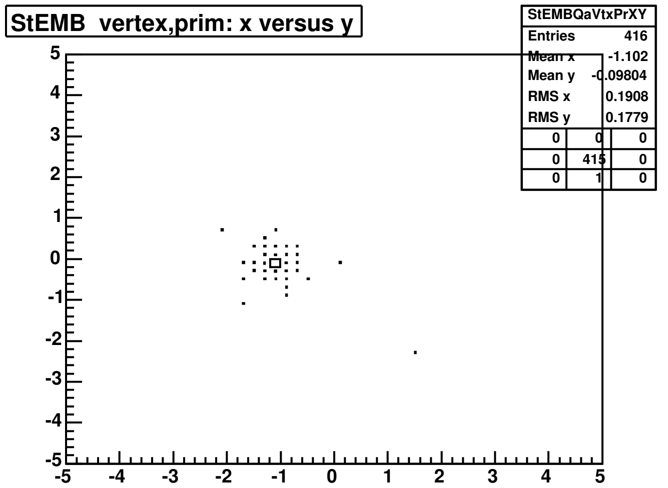

StEMB primtrk: |eta|, ftpc
Legend
East
West
10^3
10^2
10
1
2
2.5
3
3.5
4
4.5
5


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

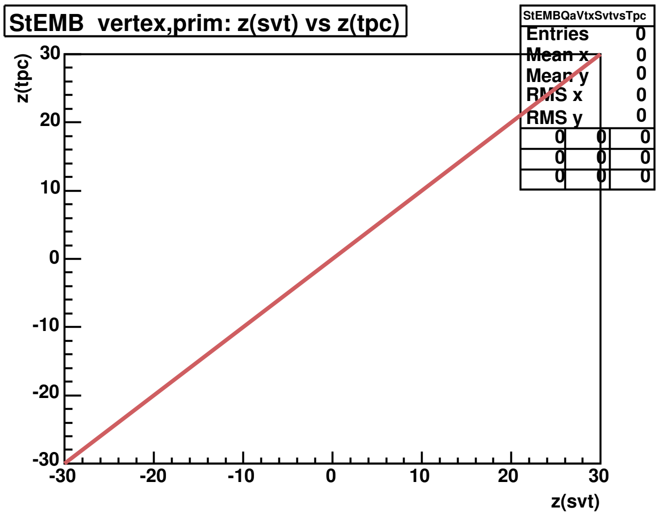

StEMB dedx: ratio <dE/dx> mean to Bethe Bloch <dE/dx>, tpc,tpc+svt
StEMBQaDedxBBTTS
Entries 184692
Mean 1.28
RMS 1.281
Underflow 0
Overflow 3552
60000
50000
40000
30000
20000
10000
0
10^{-1}
1
10

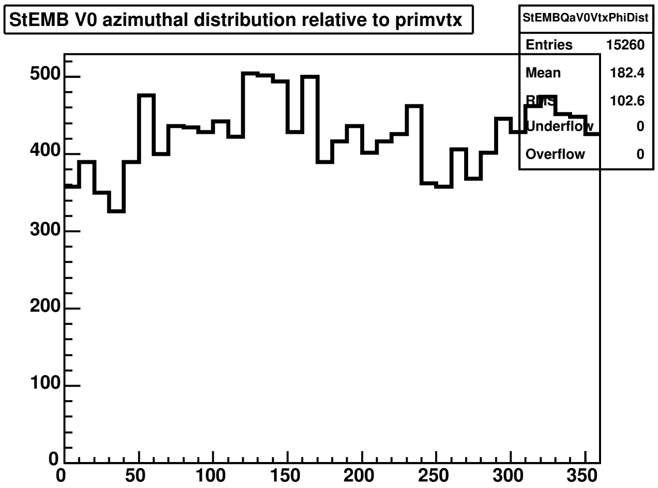

StEMB PID: globtrk-dst_dedx, p vs dedx (reconstructed)
Entries 65182
Mean x 0.5501
Mean y 3.128
RMS x 0.3594
RMS y 1.361
0 5957 0
0 58318 907
0 0 0
dedx (keV/cm)
p (GeV)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

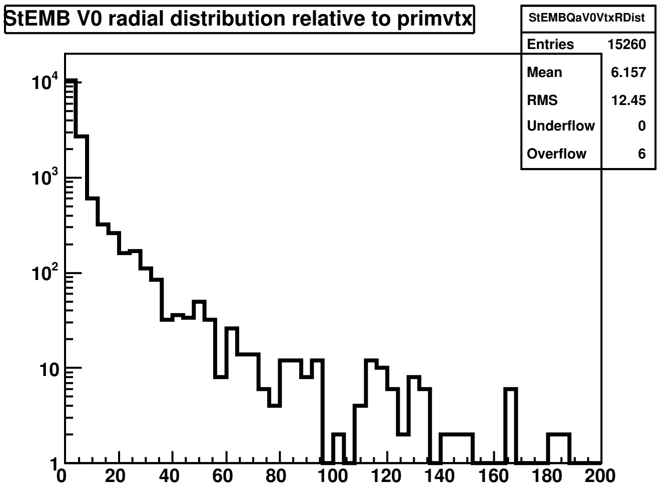

StEMB vertex,prim: z
StEMBQaVtxPrZ
Entries 416
Mean 0.0257
RMS 24.37
Underflow 23
Overflow 23
-50
-40
-30
-20
-10
0
10
20
30
40
50

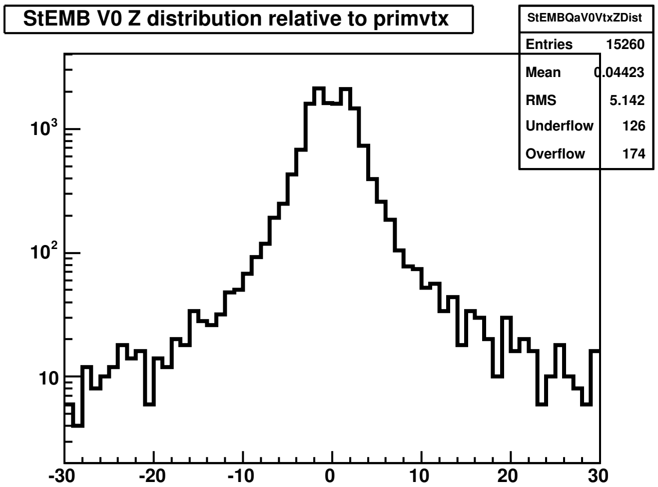

StEMB vertex,prim: x versus y
StEMBQaVtxPrXY
Entries 416
Mean x -1.102
Mean y -0.09804
RMS x 0.1908
RMS y 0.1779
0 0 0
0 415 0
0 1 0
-5
-4
-3
-2
-1
0
1
2
3
4
5

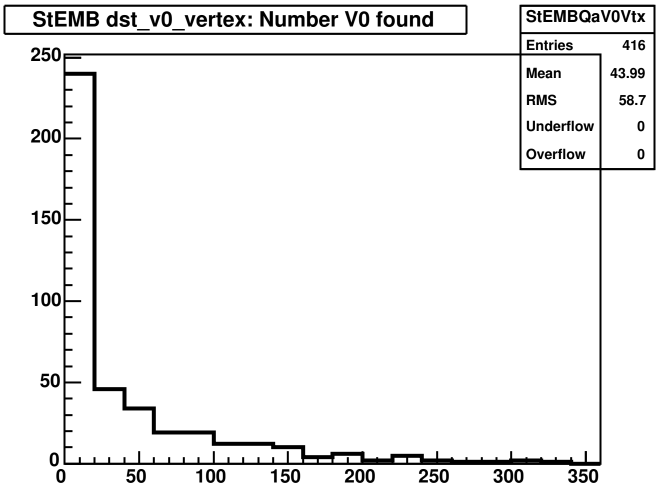
MinBias Hists

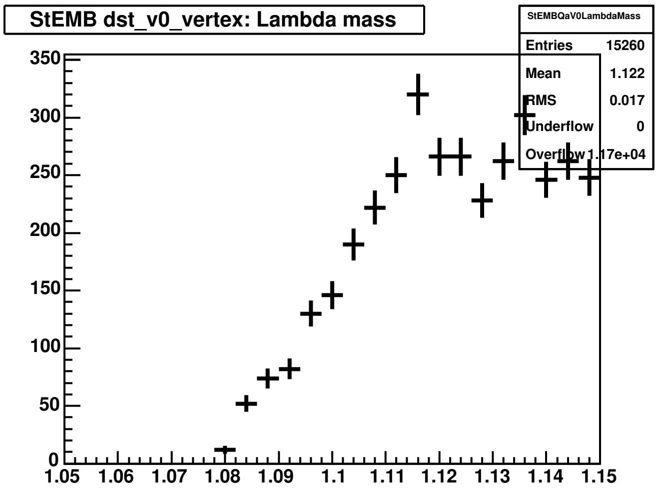


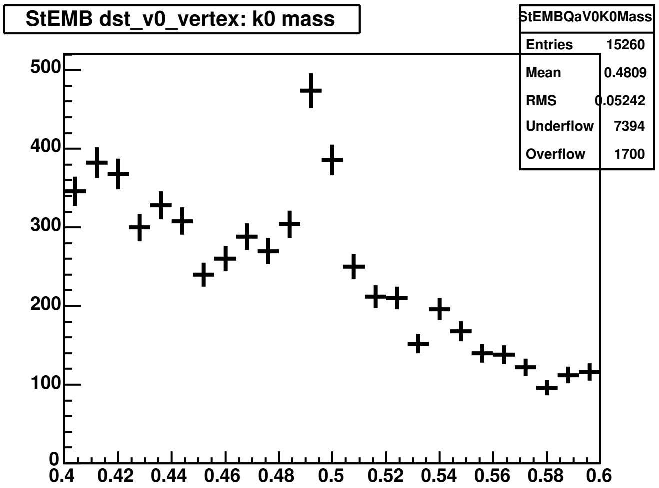


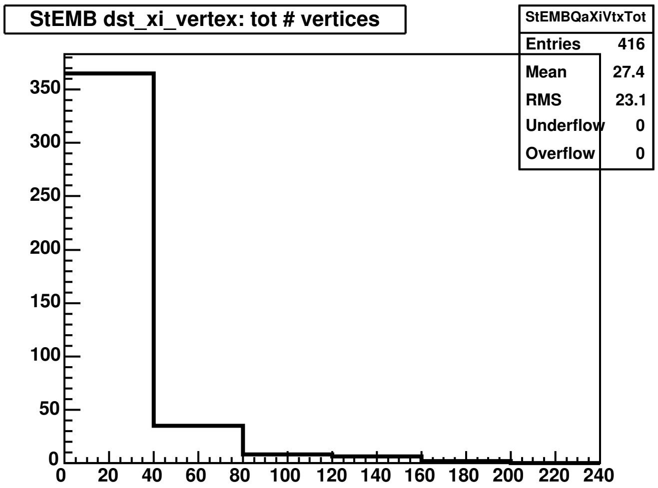


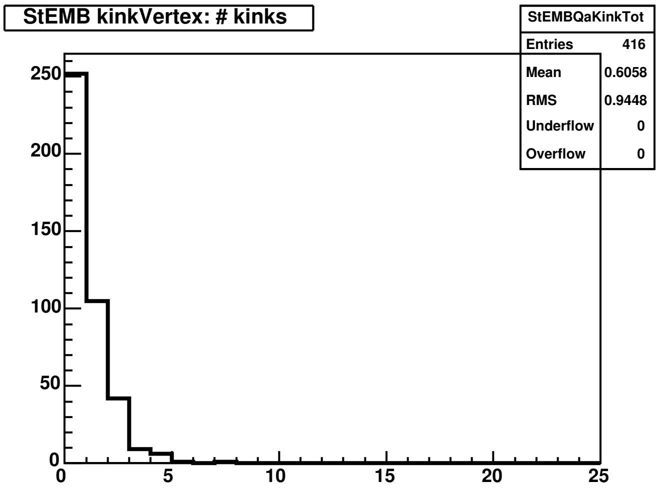


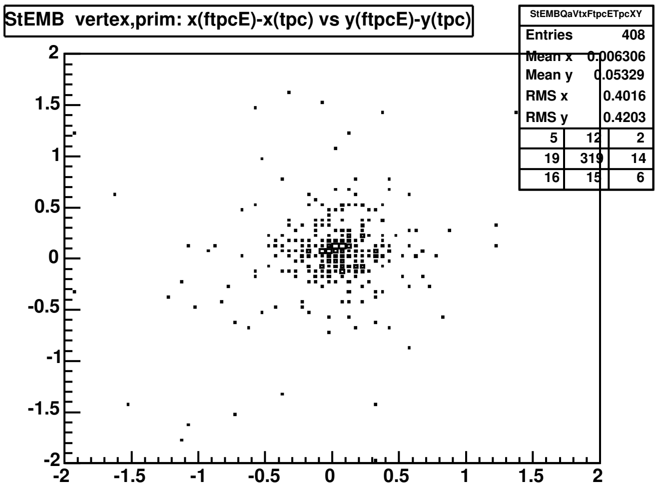


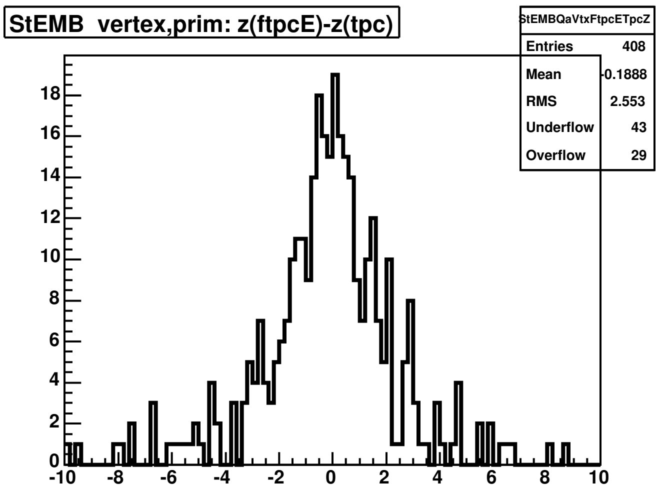


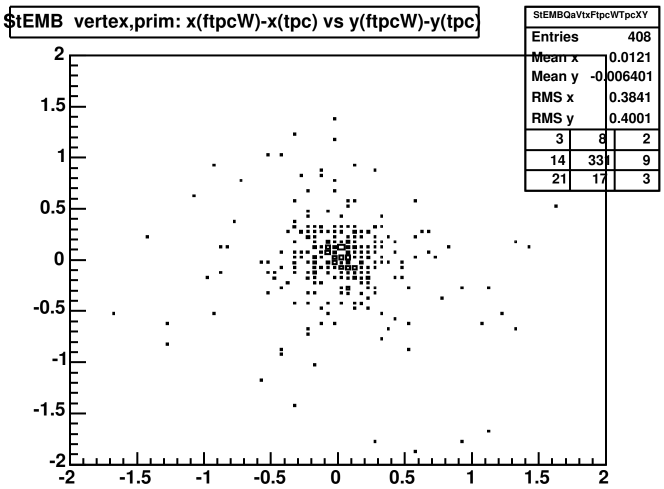

StEMB dst_v0_vertex: k0 mass
StEMBQaV0K0Mass
Entries 15260
Mean 0.4809
RMS 0.05242
Underflow 7394
Overflow 1700
0 100 200 300 400 500
0.4 0.42 0.44 0.46 0.48 0.5 0.52 0.54 0.56 0.58 0.6

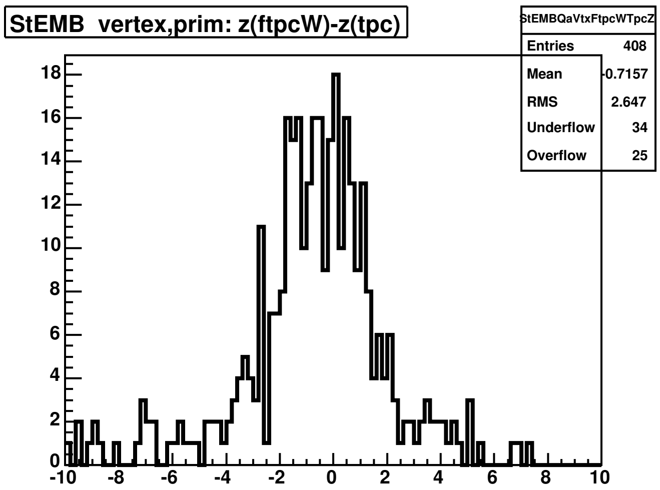

StEMB dst_xi_vertex: tot # vertices
StEMBQaXiVtxTot
Entries 416
Mean 27.4
RMS 23.1
Underflow 0
Overflow 0
0 50 100 150 200 250 300 350
0 20 40 60 80 100 120 140 160 180 200 220 240


StEMB kinkVertex: # kinks
StEMBQaKinkTot
Entries 416
Mean 0.6058
RMS 0.9448
Underflow 0
Overflow 0
0 50 100 150 200 250
0 5 10 15 20 25


StEMB vertex,prim: x(ftpcE)-x(tpc) vs y(ftpcE)-y(tpc)
StEMBQaVtxFtpcETpcXY
Entries 408
Mean x 0.006306
Mean y 0.05329
RMS x 0.4016
RMS y 0.4203
5 12 2
19 319 14
16 15 6
-2 -1.5 -1 -0.5 0 0.5 1 1.5 2
-2 -1.5 -1 -0.5 0 0.5 1 1.5 2


StEMB vertex,prim: z(ftpcE)-z(tpc)
StEMBQaVtxFtpcETpcZ
Entries 408
Mean -0.1888
RMS 2.553
Underflow 43
Overflow 29
0 2 4 6 8 10 12 14 16 18
-10 -8 -6 -4 -2 0 2 4 6 8 10


StEMB vertex,prim: x(ftpcW)-x(tpc) vs y(ftpcW)-y(tpc)
StEMBQaVtxFtpcWTpcXY
Entries 408
Mean x 0.0121
Mean y -0.006401
RMS x 0.3841
RMS y 0.4001
3 8 2
14 331 9
21 17 3
-2 -1.5 -1 -0.5 0 0.5 1 1.5 2
-2 -1.5 -1 -0.5 0 0.5 1 1.5 2



StEMB vertex,prim: z(ftpcW)-z(tpc)
StEMBQaVtxFtpcWTpcZ
Entries 408
Mean -0.7157
RMS 2.647
Underflow 34
Overflow 25
0
2
4
6
8
10
12
14
16
18
-10
-8
-6
-4
-2
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2
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8
10