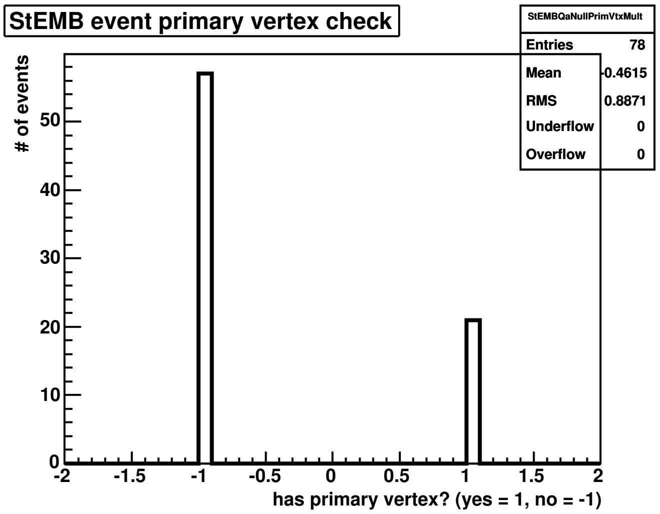
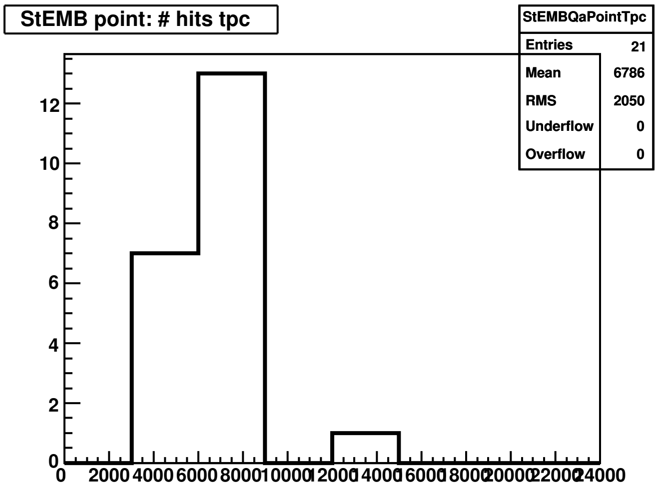
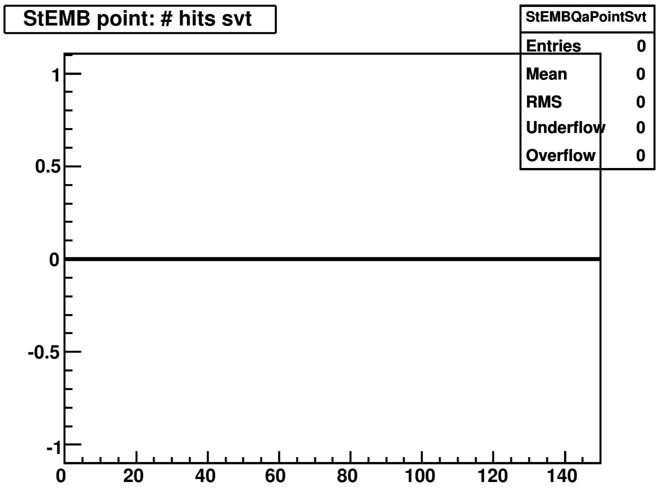
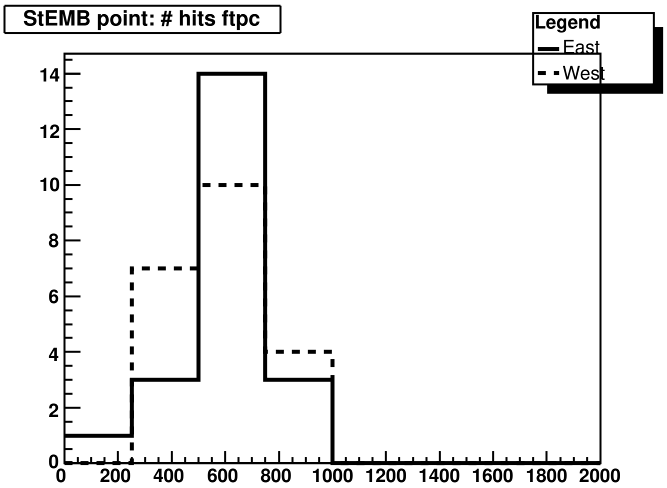
st_physics_7075188_raw_1030004.hist.root

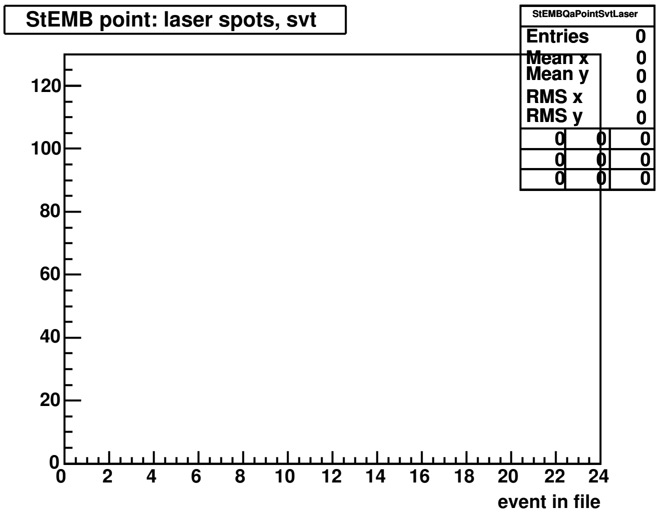
MinBias Hists

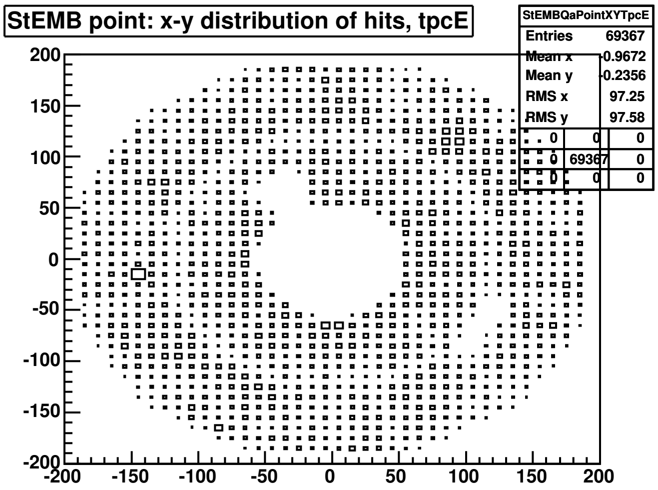




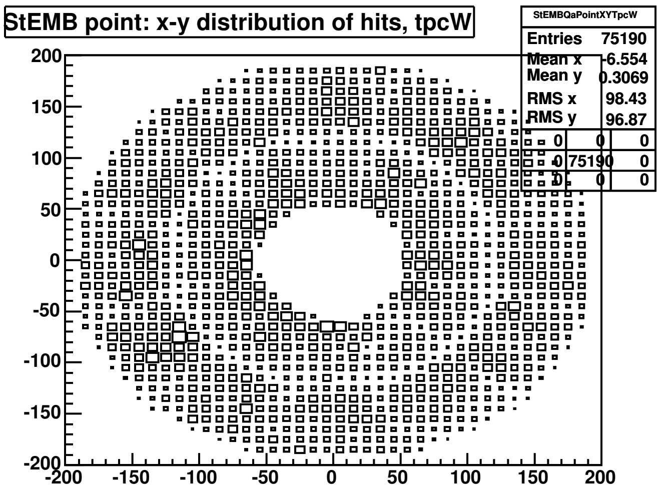


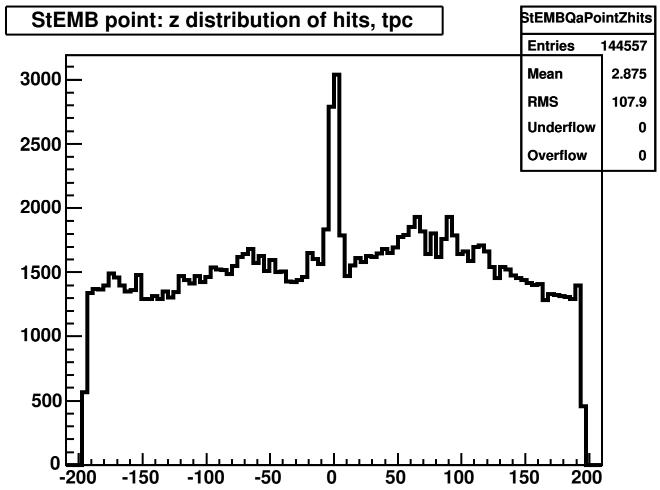


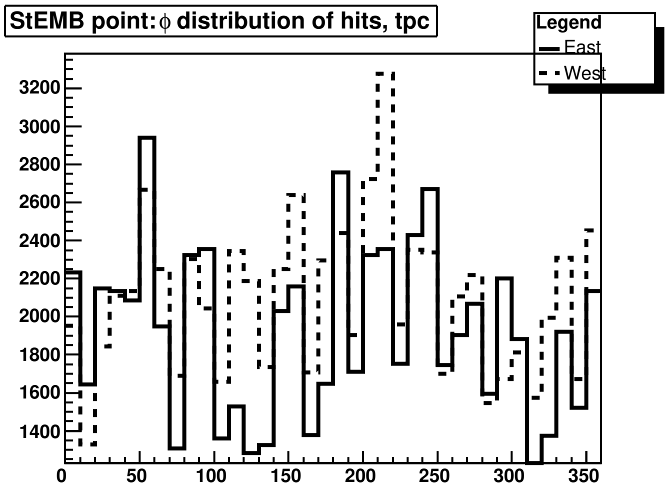


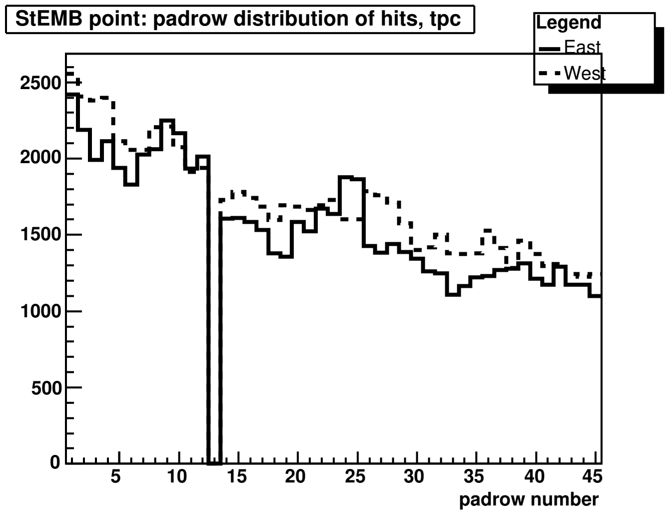


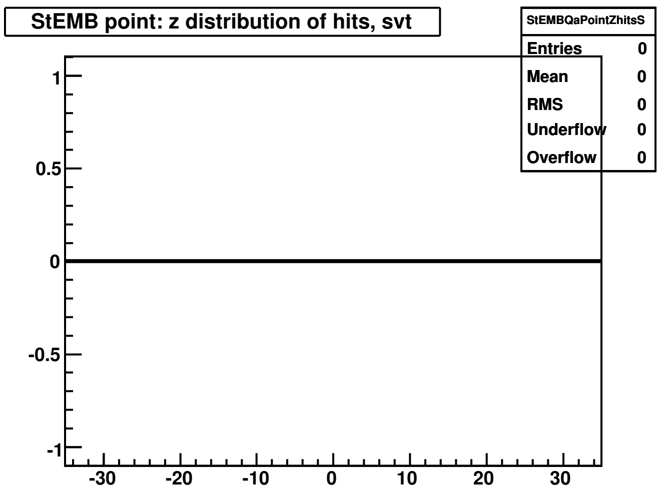
Mon Apr 10 10:11:44 2006

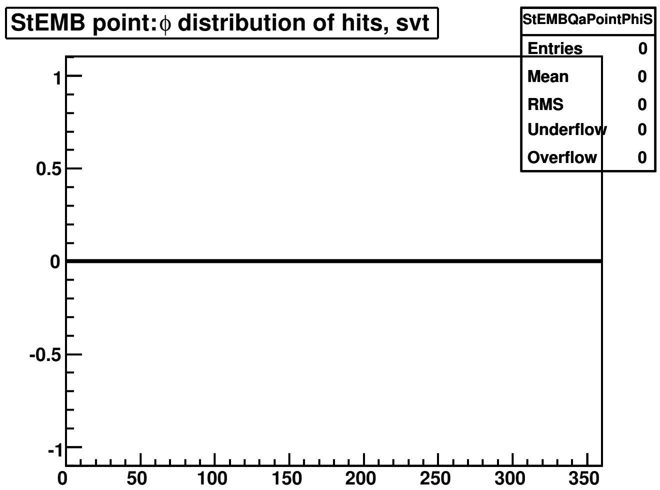

StEMB point: x-y distribution of hits, tpcW
StEMBQaPointXYTpcW
Entries 75190
Mean x -6.554
Mean y 0.3069
RMS x 98.43
RMS y 96.87
0 0 0
0 75190 0
0 0 0

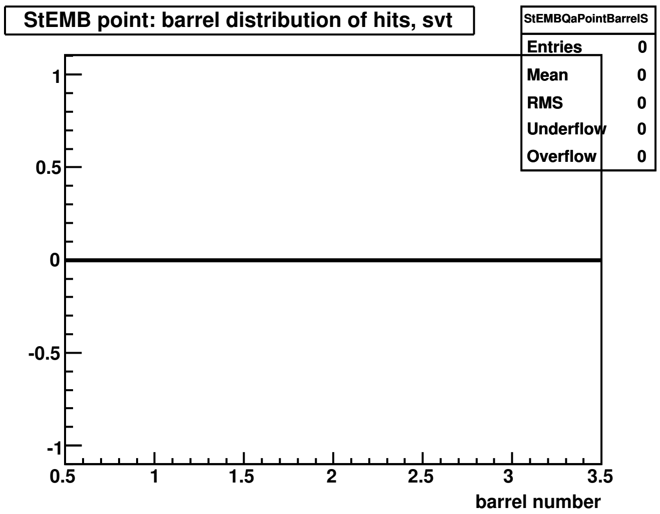

StEMB point: z distribution of hits, tpc
StEMBQaPointZhits
Entries 144557
Mean 2.875
RMS 107.9
Underflow 0
Overflow 0

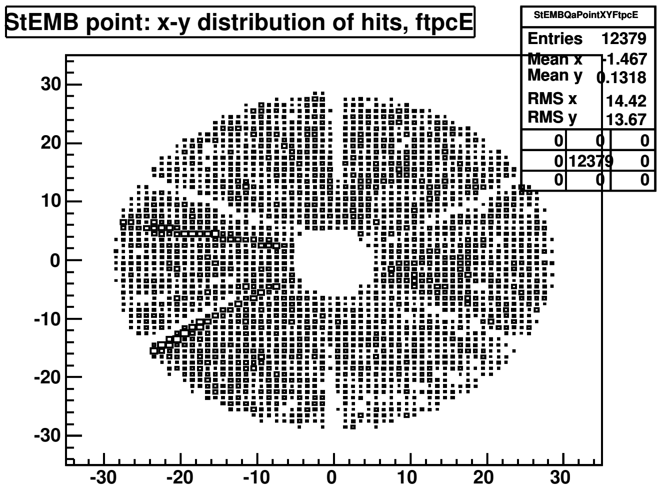

StEMB point: ϕ distribution of hits, tpc
Legend
East
West

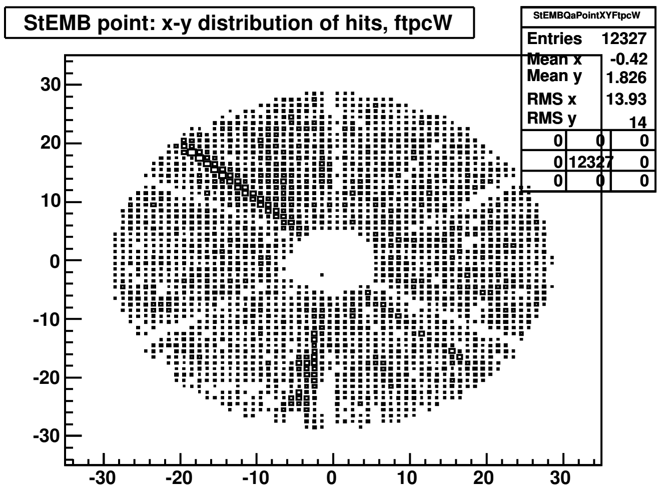

StEMB point: padrow distribution of hits, tpc
Legend
East
West
padrow number

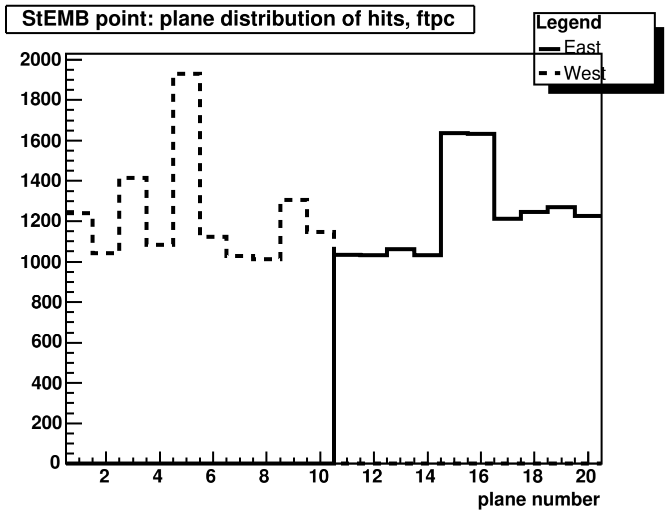

StEMB point: z distribution of hits, svt
StEMBQaPointZhitsS
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0

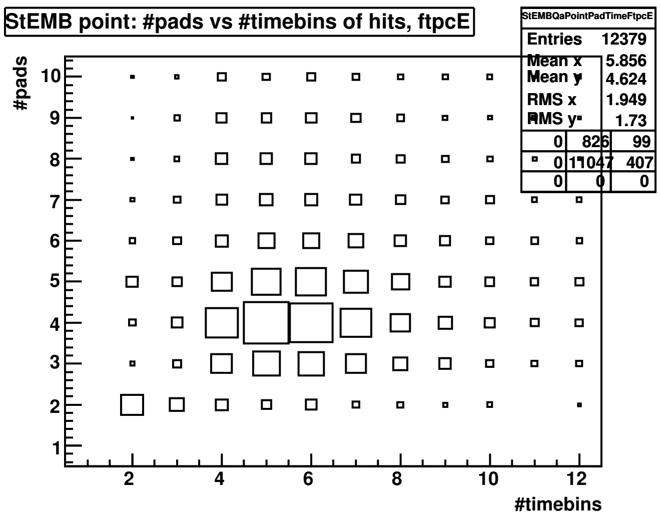

StEMB point: ϕ distribution of hits, svt
StEMBQaPointPhiS
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0

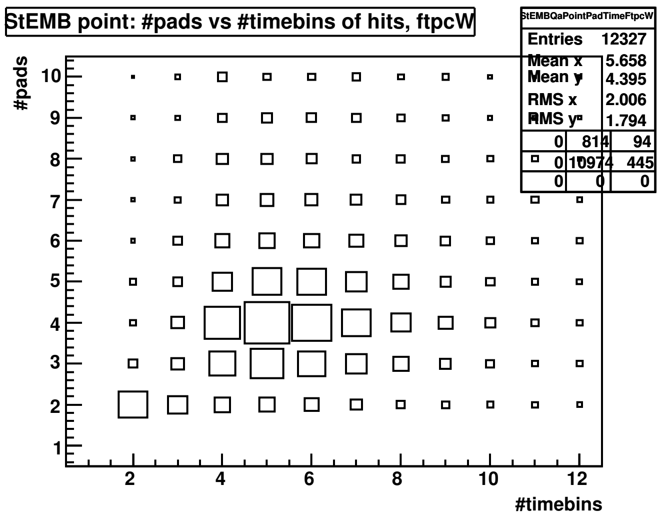

StEMB point: barrel distribution of hits, svt
StEMBQaPointBarrelS
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
barrel number

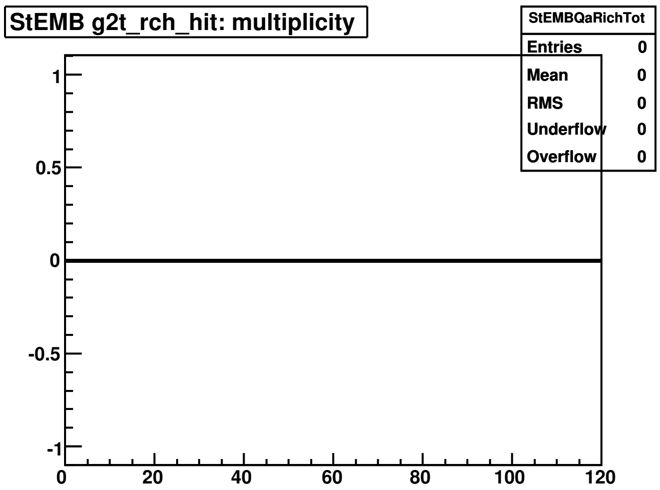

StEMB point: x-y distribution of hits, ftpcE
StEMBQaPointXYFtpcE
Entries 12379
Mean x -1.467
Mean y 0.1318
RMS x 14.42
RMS y 13.67
0 0 0
0 12379 0
0 0 0

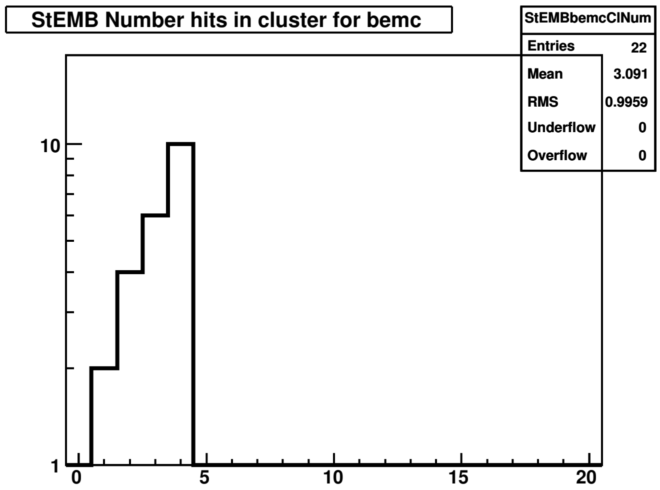

StEMB point: x-y distribution of hits, ftpcW
StEMBQaPointXYFtpcW
Entries 12327
Mean x -0.42
Mean y 1.826
RMS x 13.93
RMS y 14
0 0 0
0 12327 0
0 0 0

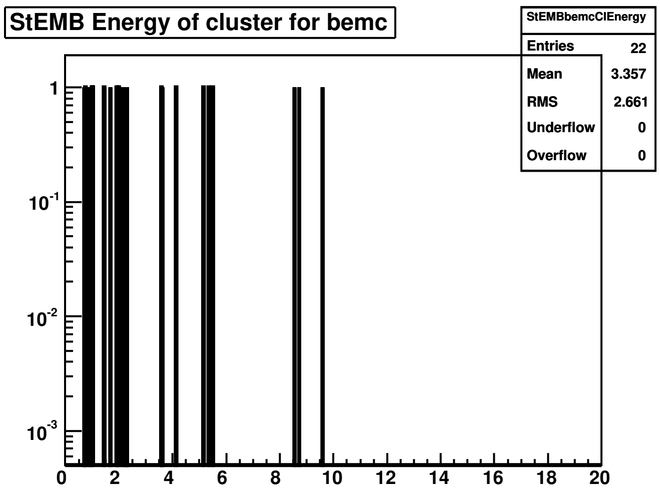

StEMB point: plane distribution of hits, ftpc
Legend
East
West
plane number

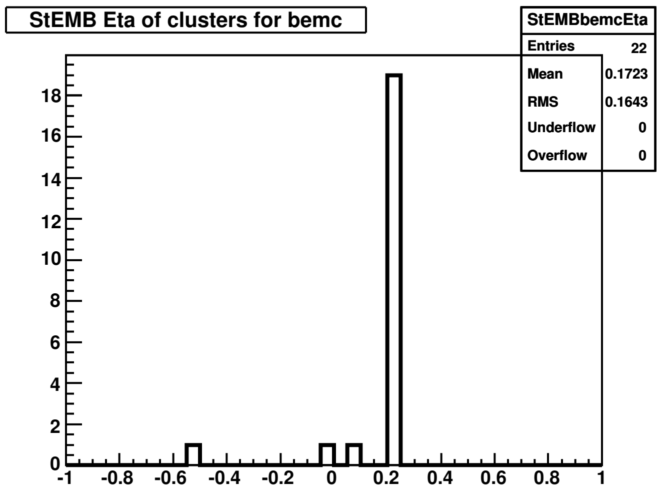

StEMB point: #pads vs #timebins of hits, ftpcE
StEMBQaPointPadTimeFtpcE
Entries 12379
Mean x 5.856
Mean y 4.624
RMS x 1.949
RMS y 1.73
0 826 99
0 11047 407
0 0 0
#pads
#timebins

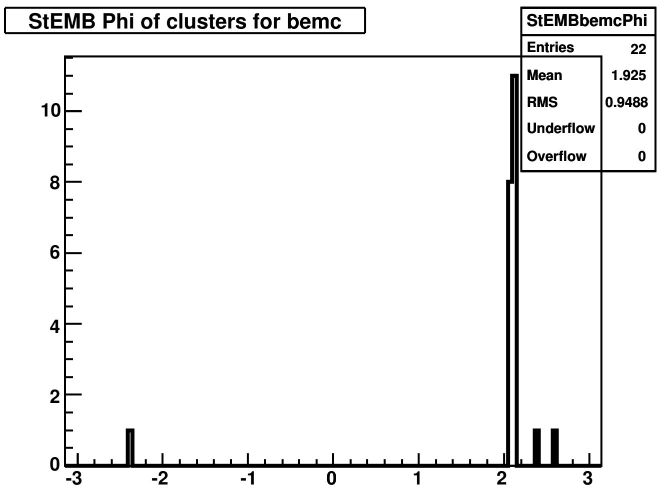

StEMB point: #pads vs #timebins of hits, ftpcW
StEMBQaPointPadTimeFtpcW
Entries 12327
Mean x 5.658
Mean y 4.395
RMS x 2.006
RMS y 1.794
0 814 94
0 10974 445
0 0 0
#pads
#timebins

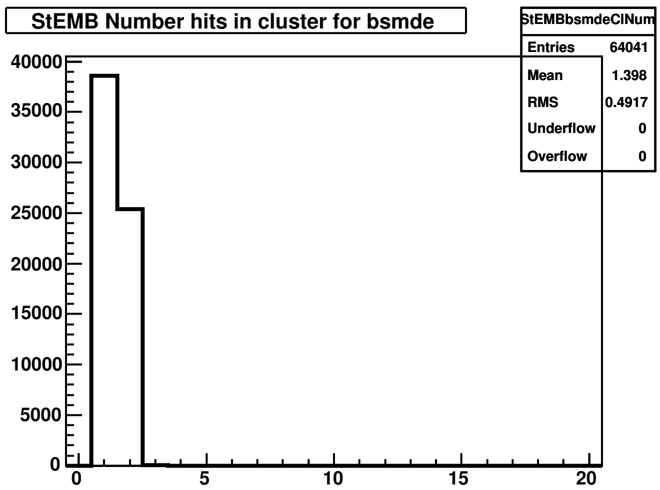

StEMB g2t_rch_hit: multiplicity
StEMBQaRichTot
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0

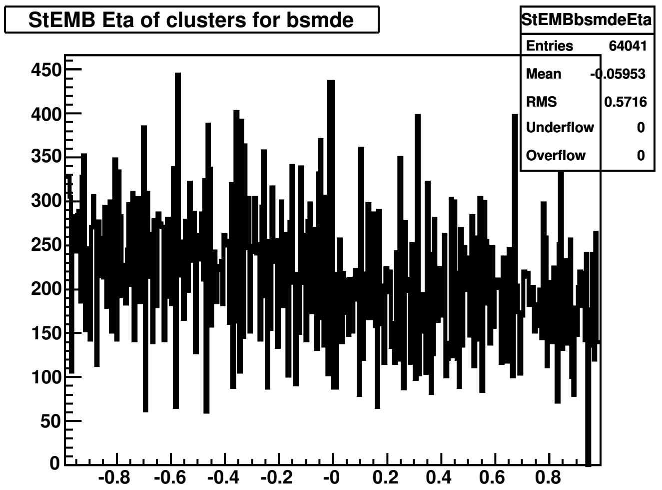

StEMB Number hits in cluster for bemc
StEMBbemcClNum
Entries 22
Mean 3.091
RMS 0.9959
Underflow 0
Overflow 0

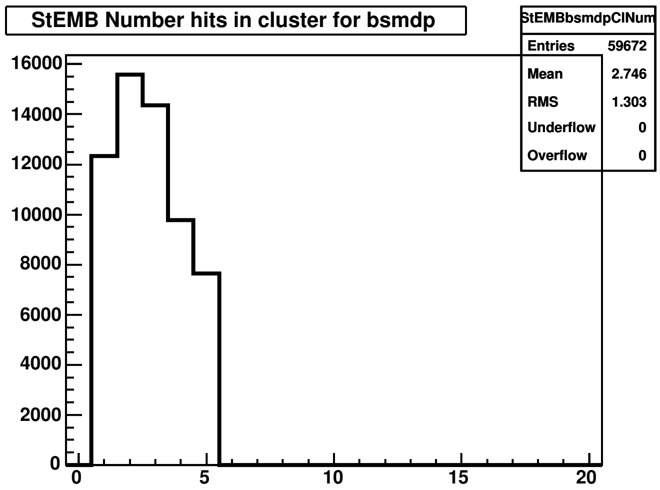

StEMB Energy of cluster for bemc
StEMBbemcClEnergy
Entries 22
Mean 3.357
RMS 2.661
Underflow 0
Overflow 0

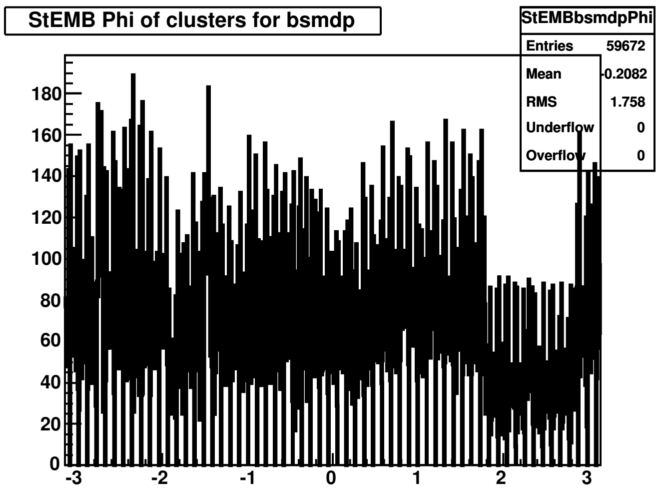

StEMB Eta of clusters for bemc
StEMBbemcEta
Entries 22
Mean 0.1723
RMS 0.1643
Underflow 0
Overflow 0

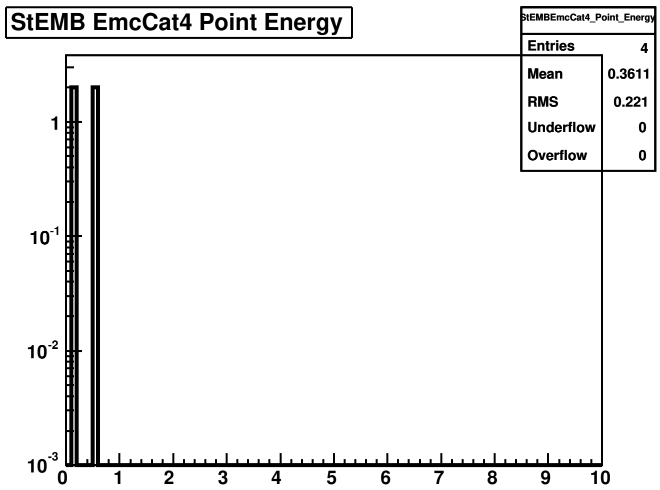

StEMB Phi of clusters for bemc
StEMBbemcPhi
Entries 22
Mean 1.925
RMS 0.9488
Underflow 0
Overflow 0

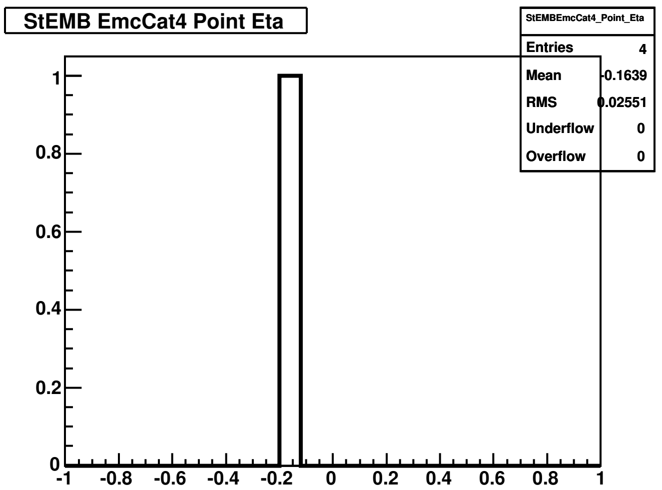

StEMB Number hits in cluster for bsmde
StEMBbsmdeClNum
Entries 64041
Mean 1.398
RMS 0.4917
Underflow 0
Overflow 0

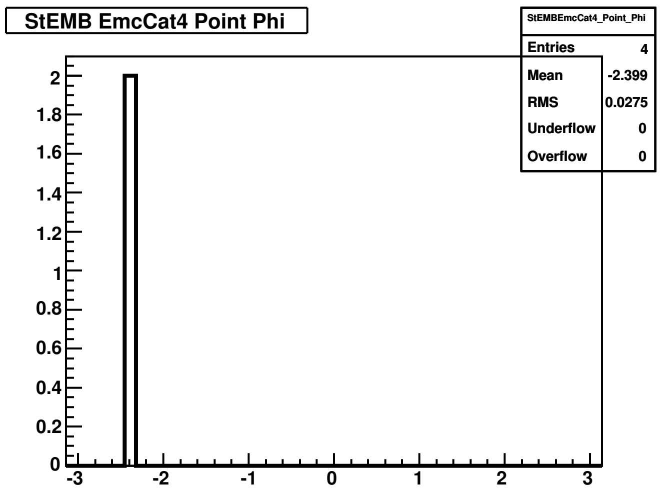

StEMB Eta of clusters for bsmde
StEMBbsmdeEta
Entries 64041
Mean -0.05953
RMS 0.5716
Underflow 0
Overflow 0


StEMB Number hits in cluster for bsmdp
StEMBbsmdpClNum
Entries 59672
Mean 2.746
RMS 1.303
Underflow 0
Overflow 0


StEMB Phi of clusters for bsmdp
StEMBbsmdpPhi
Entries 59672
Mean 0.2082
RMS 1.758
Underflow 0
Overflow 0

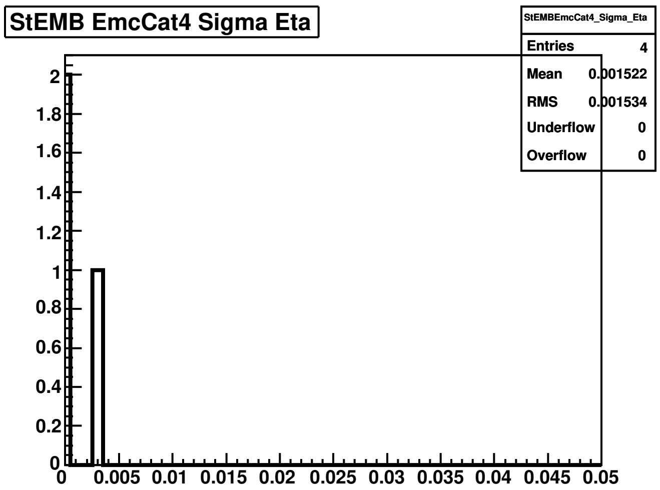

StEMB EmcCat4 Point Energy
StEMBEmcCat4_Point_Energy
Entries 4
Mean 0.3611
RMS 0.221
Underflow 0
Overflow 0

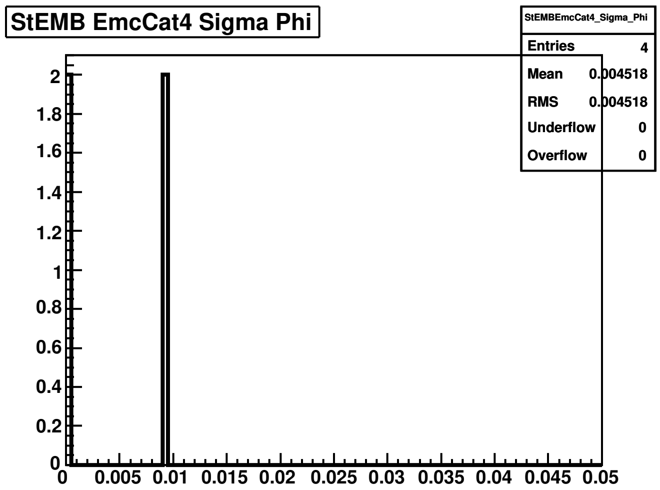

StEMB EmcCat4 Point Eta
StEMBEmcCat4_Point_Eta
Entries 4
Mean -0.1639
RMS 0.02551
Underflow 0
Overflow 0

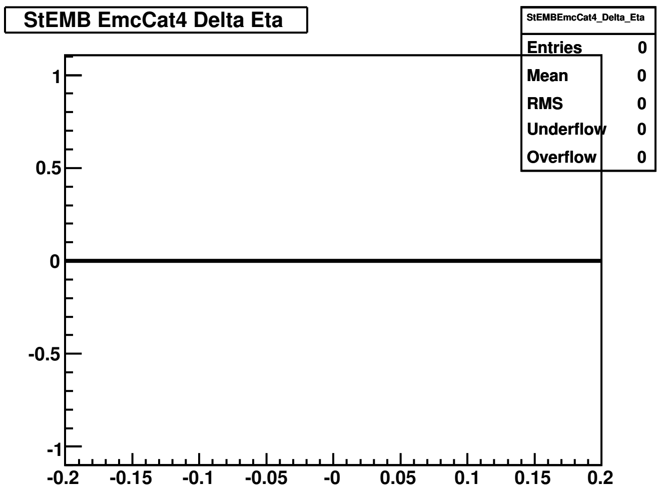

StEMB EmcCat4 Point Phi
StEMBEmcCat4_Point_Phi
Entries 4
Mean -2.399
RMS 0.0275
Underflow 0
Overflow 0

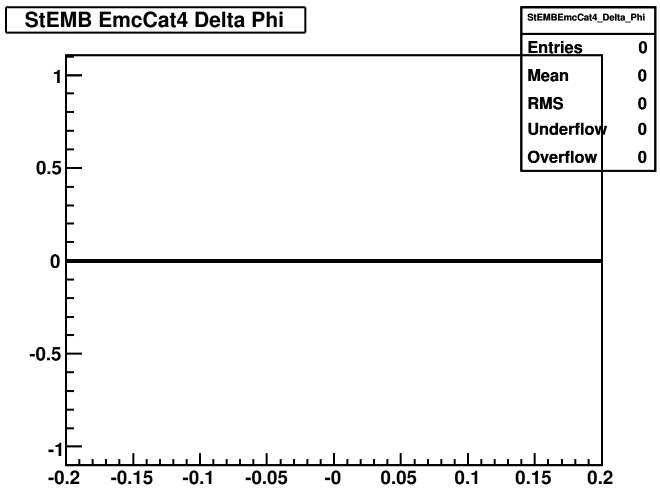
st_physics_7075188_raw_1030004.hist.root

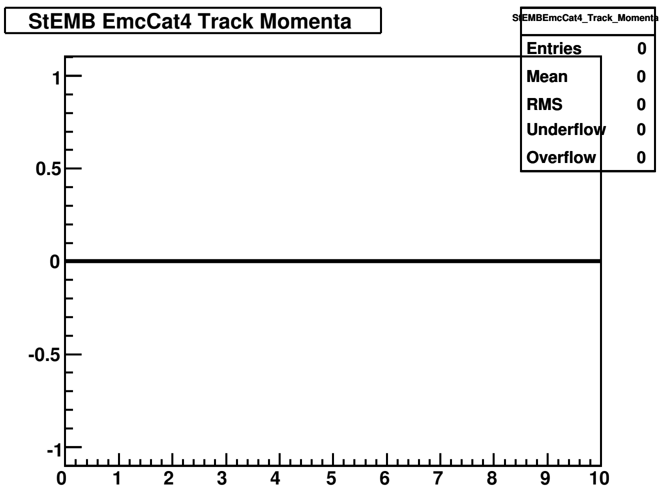
MinBias Hists

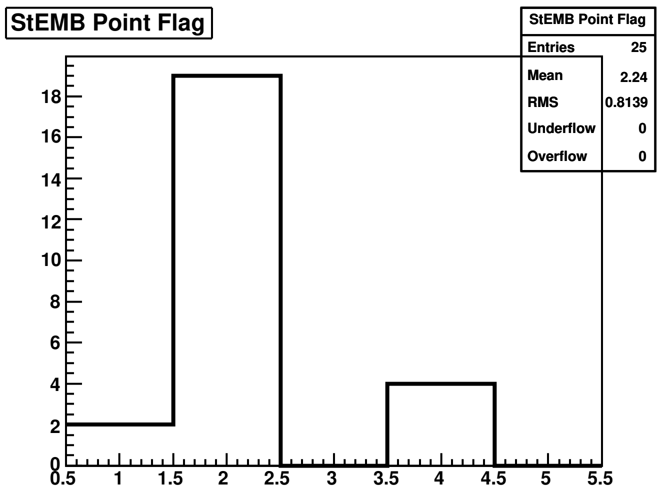


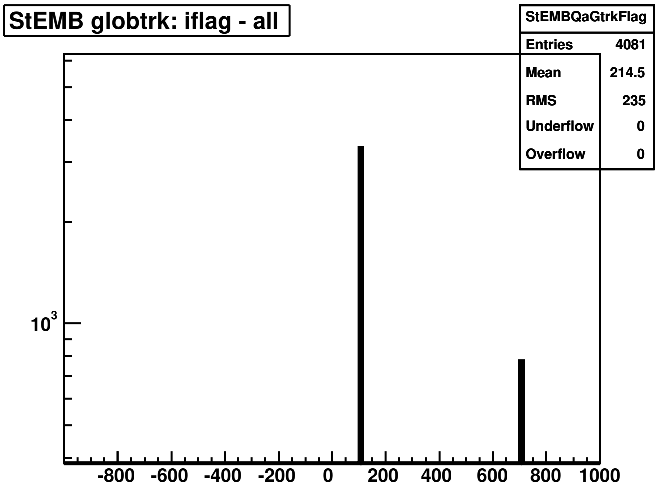


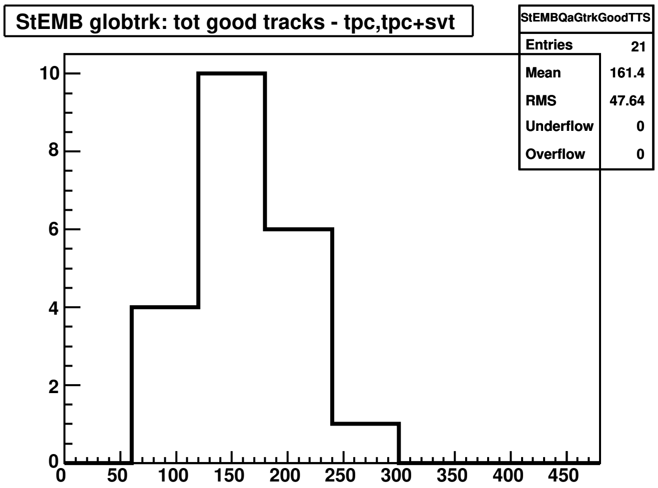


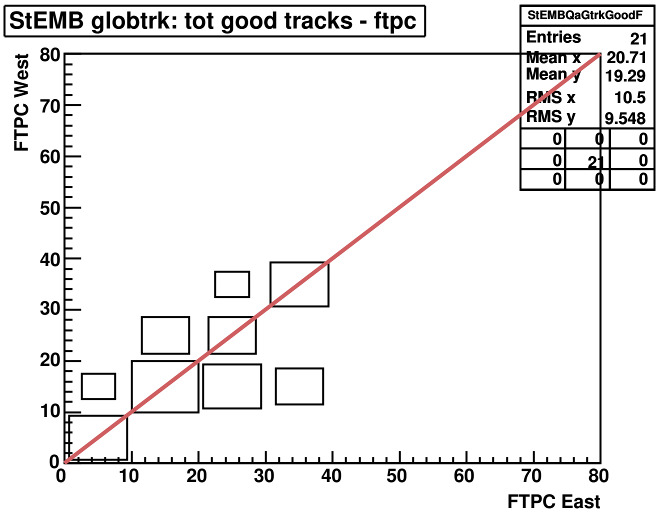


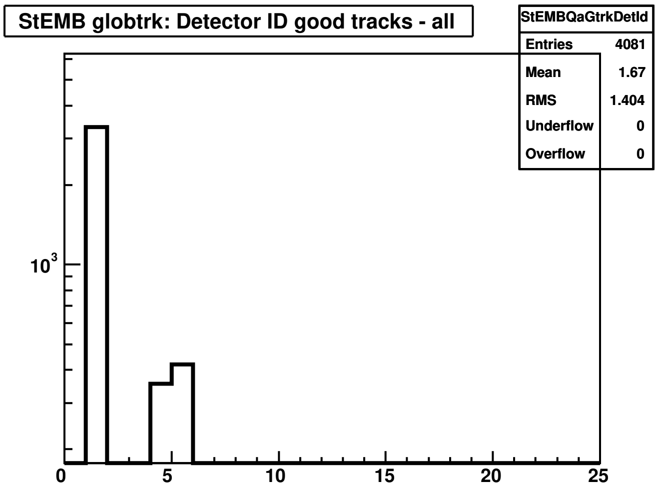


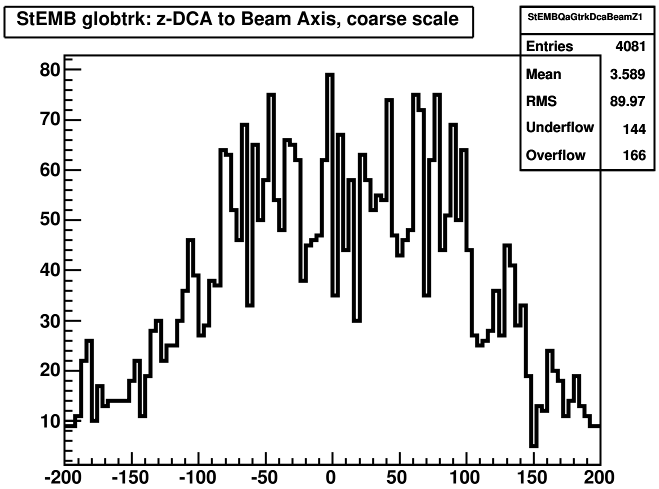


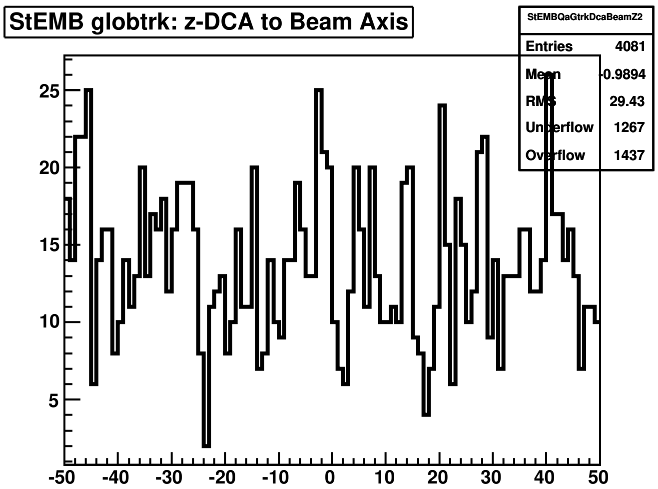

StEMB globtrk: iflag - all
StEMBQaGtrkFlag
Entries 4081
Mean 214.5
RMS 235
Underflow 0
Overflow 0
10^3
-800 -600 -400 -200 0 200 400 600 800 1000

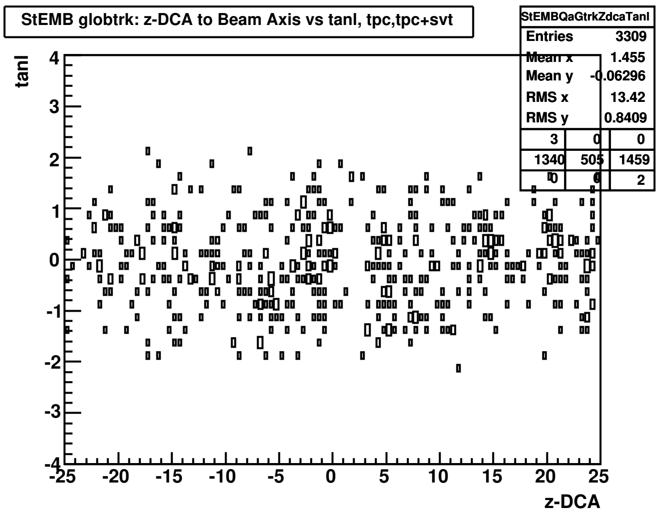

StEMB globtrk: tot good tracks - tpc,tpc+svt
StEMBQaGtrkGoodTTS
Entries 21
Mean 161.4
RMS 47.64
Underflow 0
Overflow 0
0 2 4 6 8 10
0 50 100 150 200 250 300 350 400 450

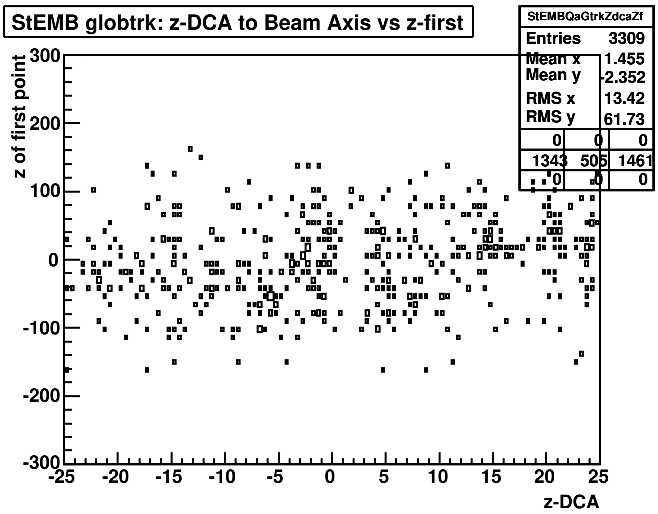

StEMB globtrk: tot good tracks - ftpc
StEMBQaGtrkGoodF
Entries 21
Mean x 20.71
Mean y 19.29
RMS x 10.5
RMS y 9.548
0 0 0
0 21 0
0 0 0
FTPC West
0 10 20 30 40 50 60 70 80
FTPC East

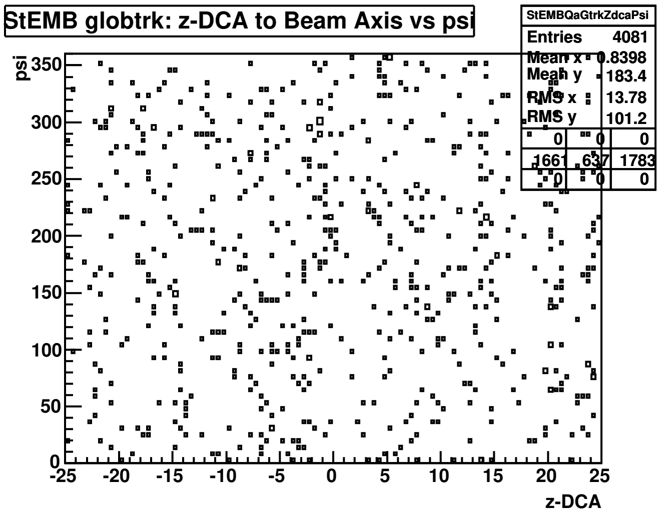

StEMB globtrk: Detector ID good tracks - all
StEMBQaGtrkDetId
Entries 4081
Mean 1.67
RMS 1.404
Underflow 0
Overflow 0
10^3
0 5 10 15 20 25

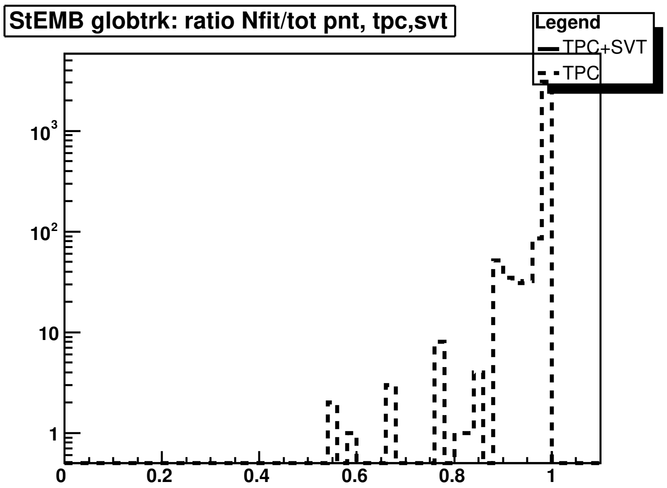

StEMB globtrk: z-DCA to Beam Axis, coarse scale
StEMBQaGtrkDcaBeamZ1
Entries 4081
Mean 3.589
RMS 89.97
Underflow 144
Overflow 166
10 20 30 40 50 60 70 80
-200 -150 -100 -50 0 50 100 150 200

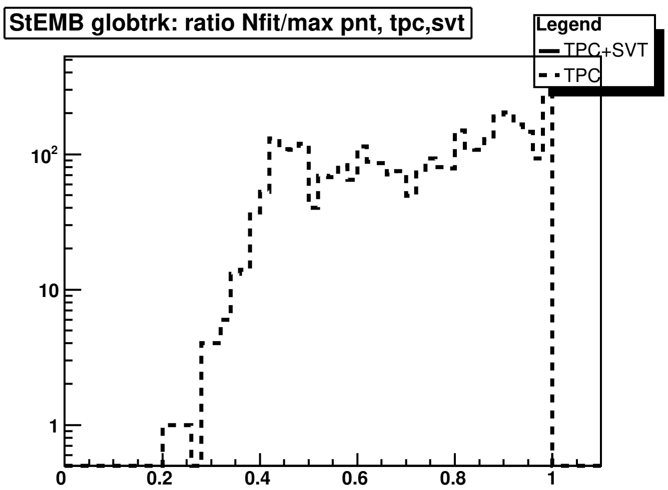

StEMB globtrk: z-DCA to Beam Axis
StEMBQaGtrkDcaBeamZ2
Entries 4081
Mean -0.9894
RMS 29.43
Underflow 1267
Overflow 1437
5 10 15 20 25
-50 -40 -30 -20 -10 0 10 20 30 40 50

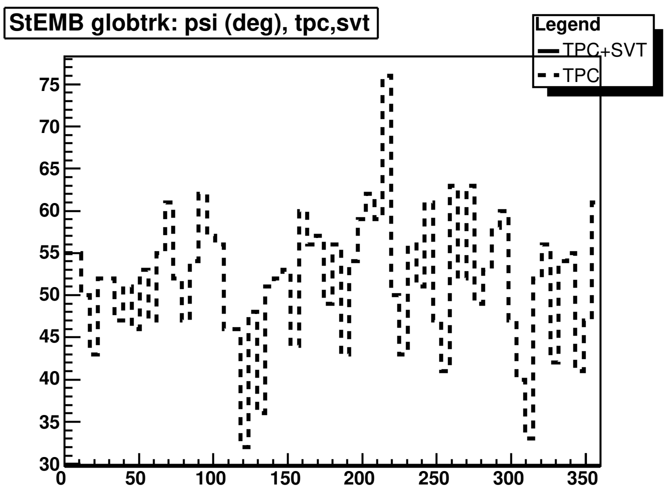

StEMB globtrk: z-DCA to Beam Axis vs tanl, tpc,tpc+svt
StEMBQaGtrkZdcaTanl
Entries 3309
Mean x 1.455
Mean y -0.06296
RMS x 13.42
RMS y 0.8409
3 0 0
1340 505 1459
0 0 2
tanl
z-DCA

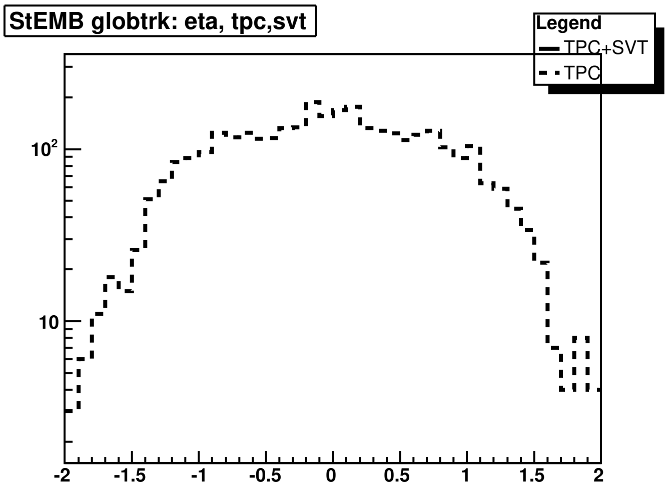

StEMB globtrk: z-DCA to Beam Axis vs z-first
StEMBQaGtrkZdcaZf
Entries 3309
Mean x 1.455
Mean y -2.352
RMS x 13.42
RMS y 61.73
0 0 0
1343 505 1461
0 0 0
z of first point
z-DCA

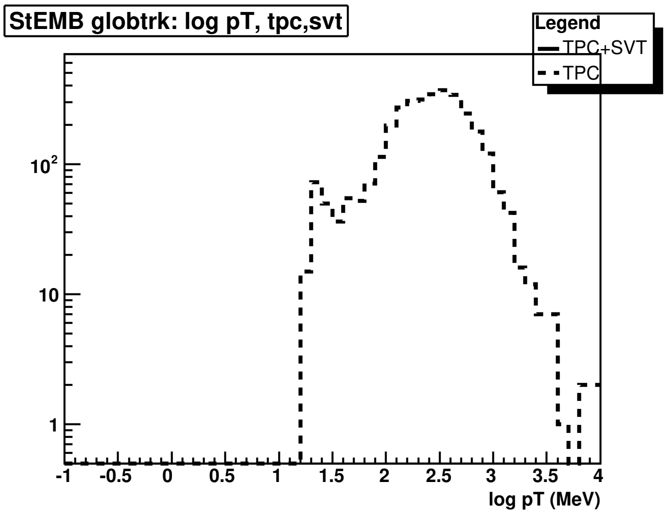

StEMB globtrk: z-DCA to Beam Axis vs psi
StEMBQaGtrkZdcaPsi
Entries 4081
Mean x 0.8398
Mean y 183.4
RMS x 13.78
RMS y 101.2
0 0 0
1661 637 1783
0 0 0
psi
z-DCA

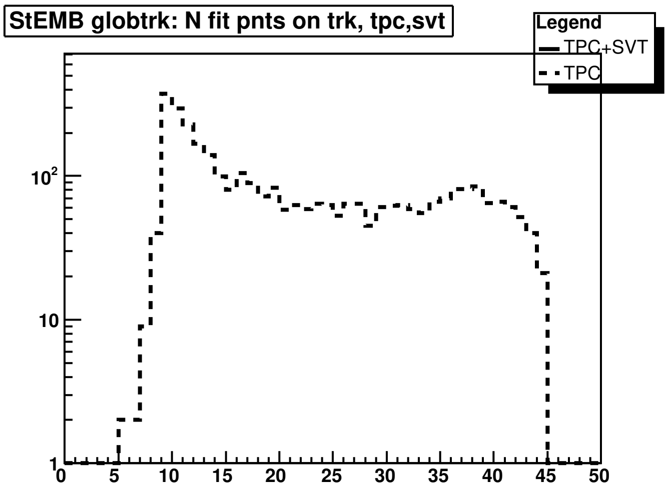

StEMB globtrk: ratio Nfit/tot pnt, tpc,svt
Legend
TPC+SVT
TPC

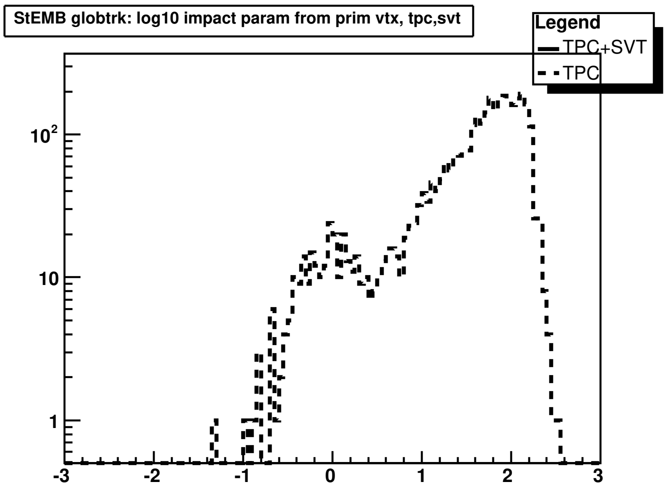

StEMB globtrk: ratio Nfit/max pnt, tpc,svt
Legend
TPC+SVT
TPC

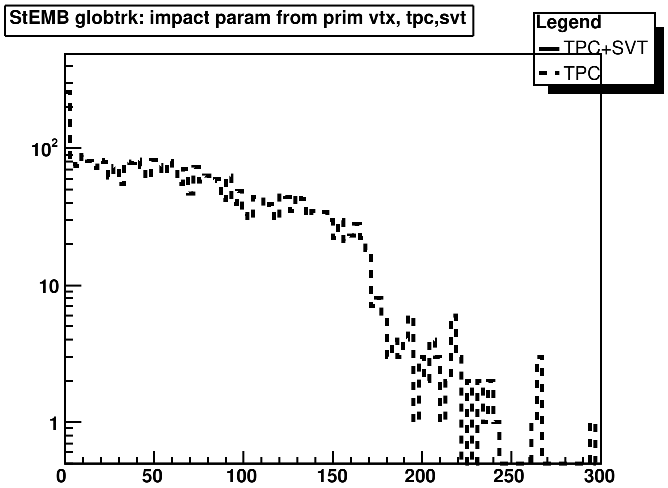

StEMB globtrk: psi (deg), tpc,svt
Legend
TPC+SVT
TPC

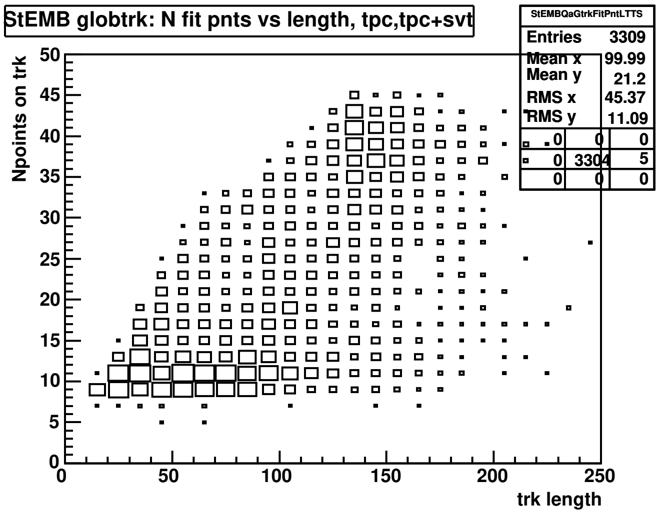

StEMB globtrk: eta, tpc,svt
Legend
TPC+SVT
TPC


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


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

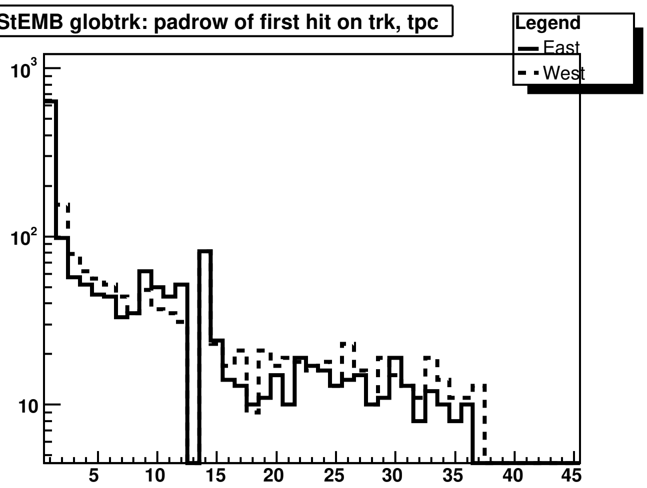

StEMB globtrk: impact param from prim vtx, tpc,svt
Legend
TPC+SVT
TPC


StEMB globtrk: N fit pnts vs length, tpc,tpc+svt
StEMBQaGtrkFitPntLTTS
Entries 3309
Mean x 99.99
Mean y 21.2
RMS x 45.37
RMS y 11.09
Npoints on trk
trk length

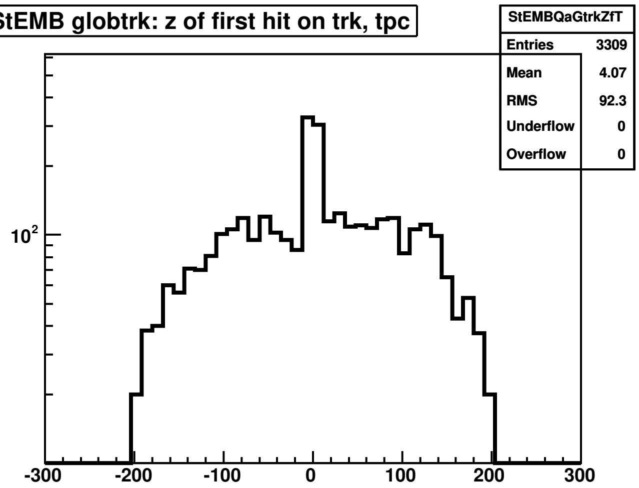
st_physics_7075188_raw_1030004.hist.root

MinBias Hists

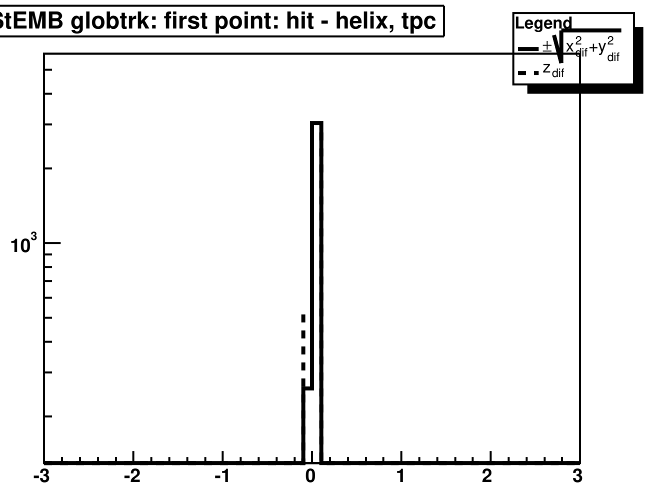
StEMB globtrk: padrow of first hit on trk, tpc



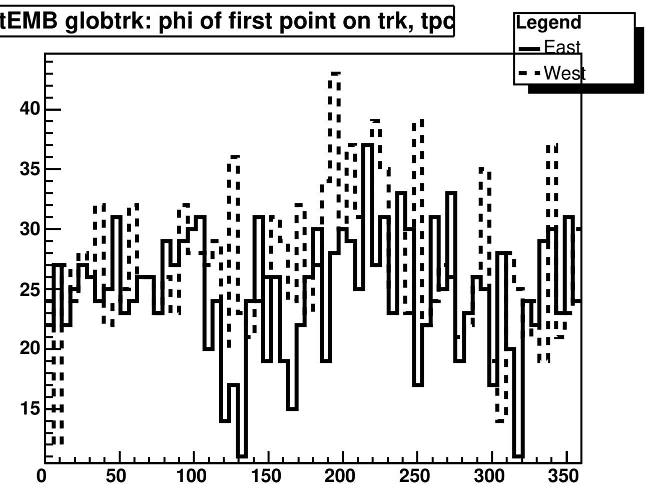
StEMB globtrk: z of first hit on trk, tpc



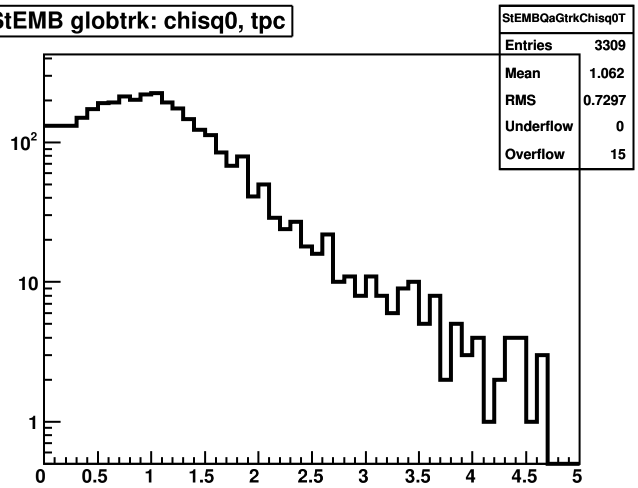
StEMB globtrk: first point: hit - helix, tpc



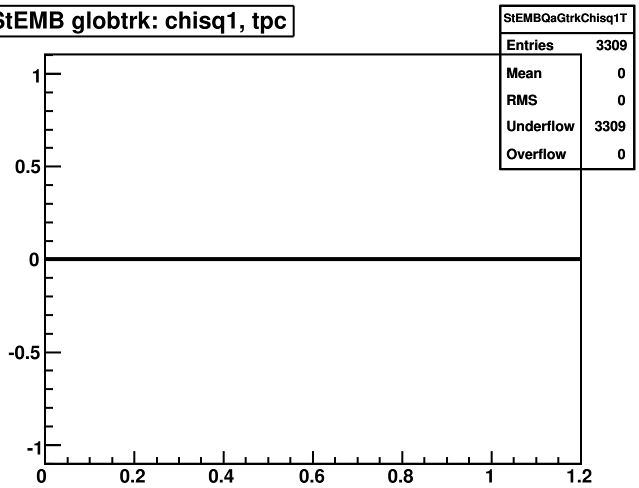
StEMB globtrk: phi of first point on trk, tpc

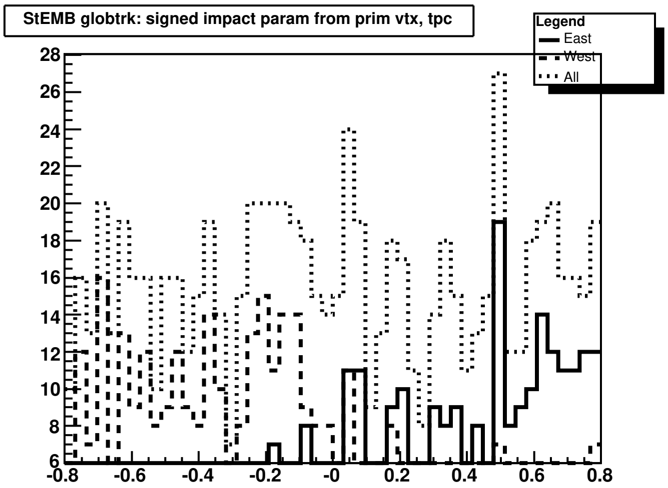


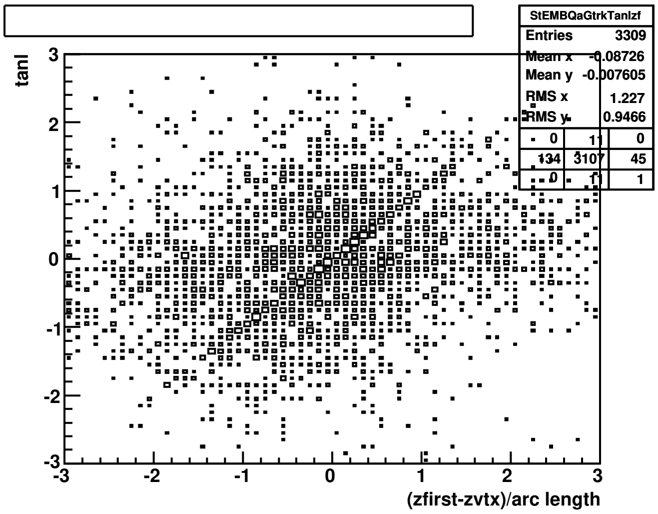
StEMB globtrk: chisq0, tpc

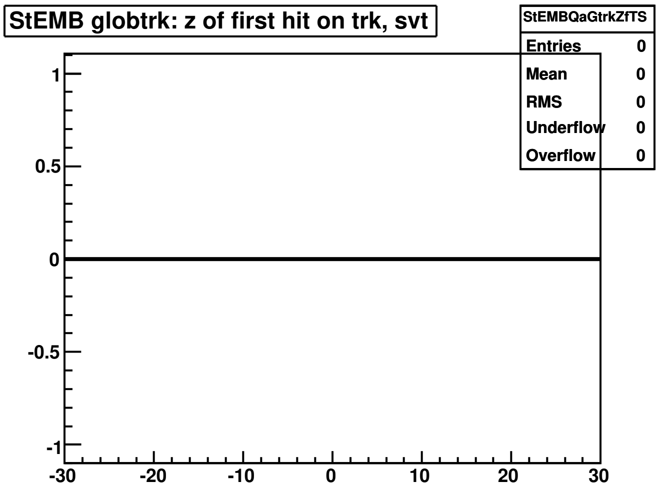


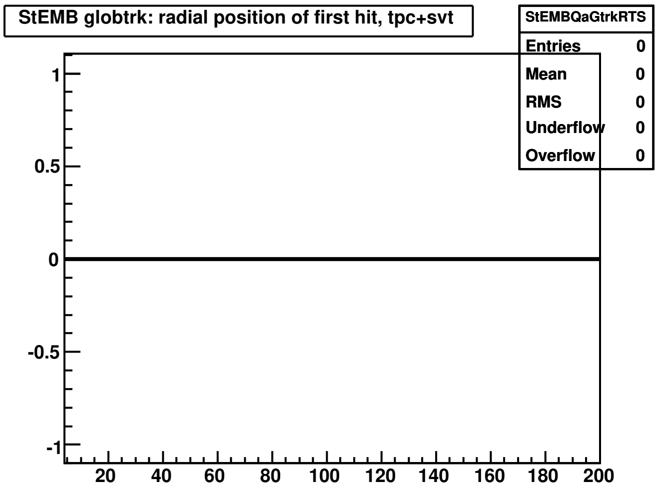
StEMB globtrk: chisq1, tpc

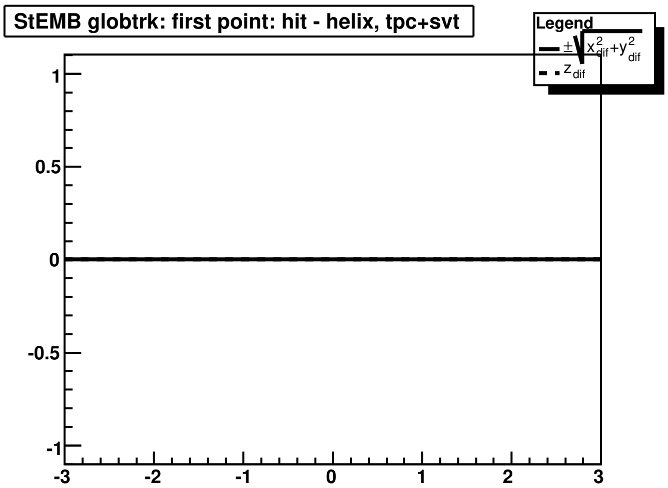


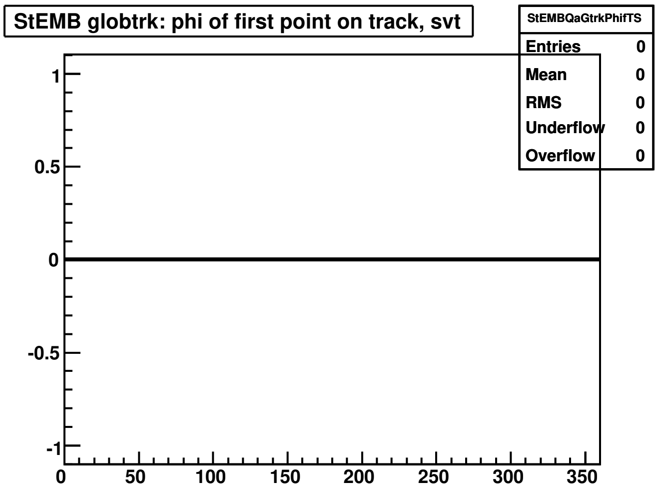

StEMB globtrk: signed impact param from prim vtx, tpc
Legend
East
West
All


StEMBQaGtrkTanlzf
Entries 3309
Mean x -0.08726
Mean y -0.007605
RMS x 1.227
RMS y 0.9466
0 11 0
134 3107 45
0 11 1
tanl
(zfirst-zvtx)/arc length


StEMB globtrk: z of first hit on trk, svt
StEMBQaGtrkZfTS
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0

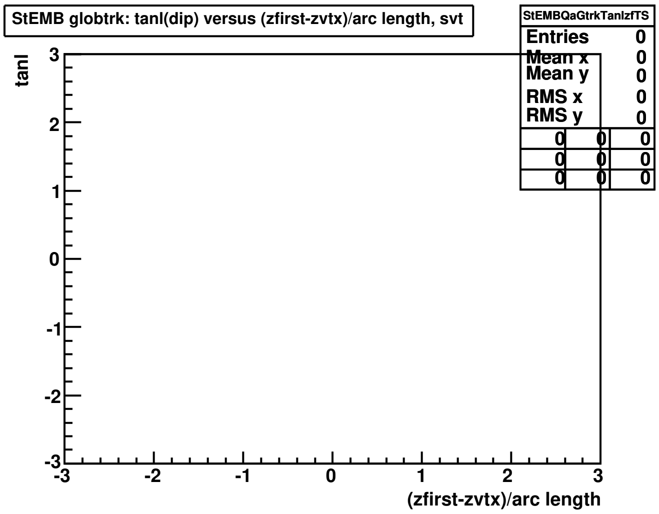

StEMB globtrk: radial position of first hit, tpc+svt
StEMBQaGtrkRTS
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0

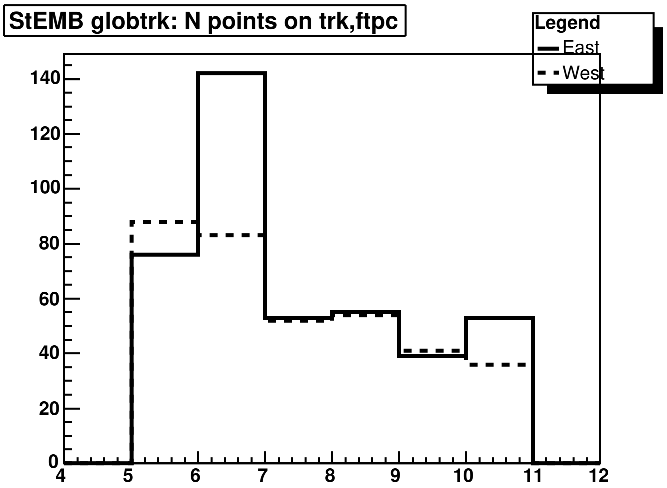

StEMB globtrk: first point: hit - helix, tpc+svt
Legend
$\pm\sqrt{x^2_{dif}+y^2_{dif}}$
z_{dif}

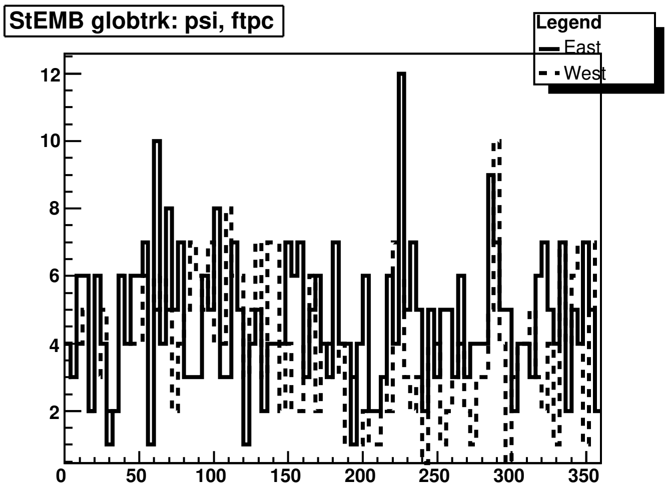

StEMB globtrk: phi of first point on track, svt
StEMBQaGtrkPhifTS
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0

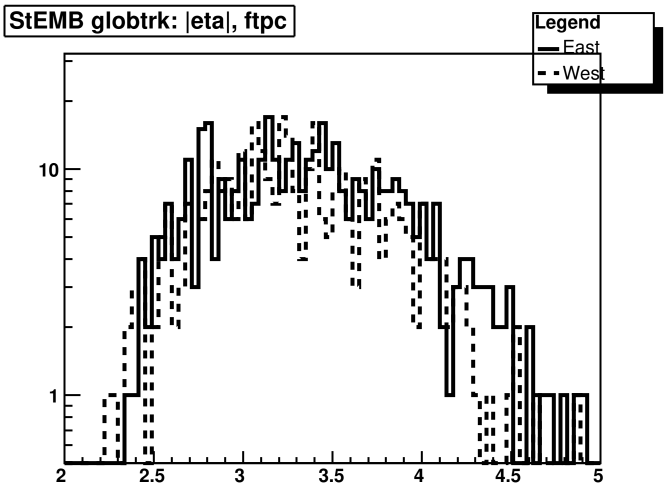
st_physics_7075188_raw_1030004.hist.root

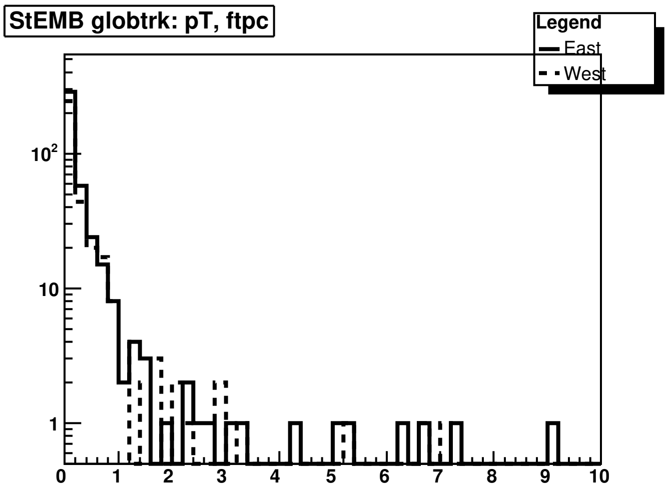
MinBias Hists

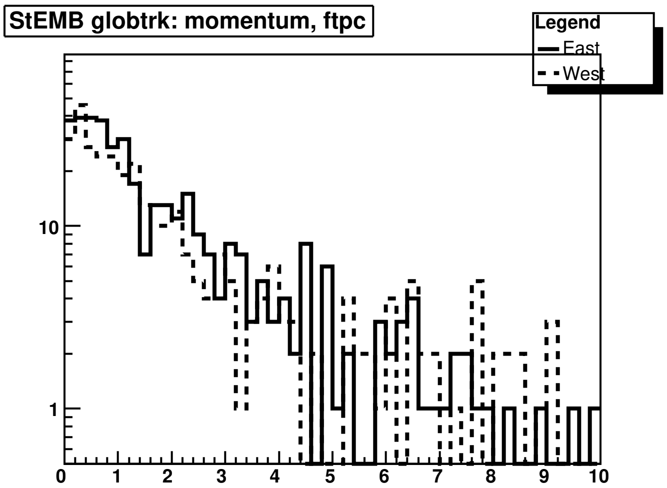


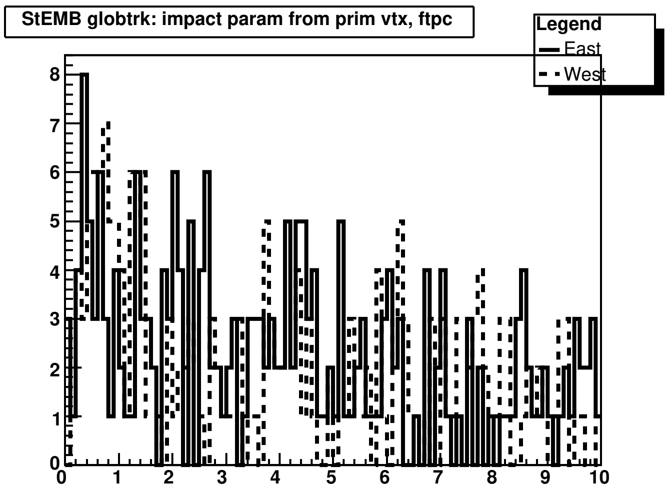


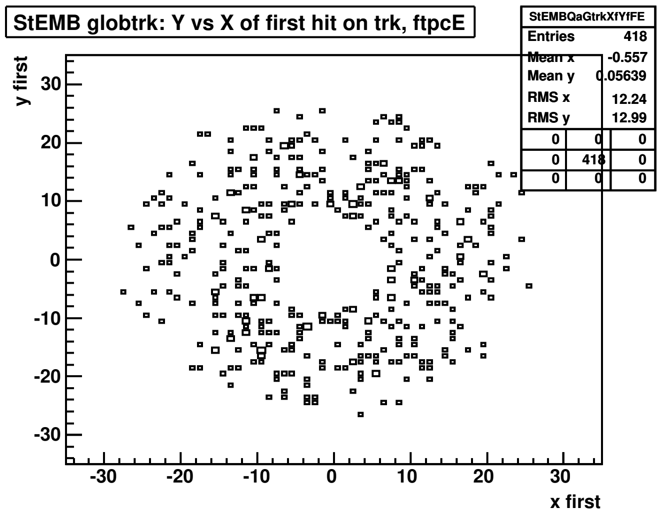


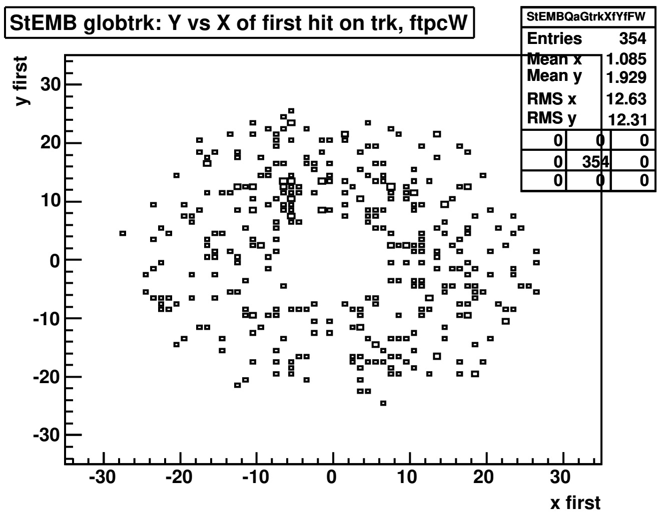


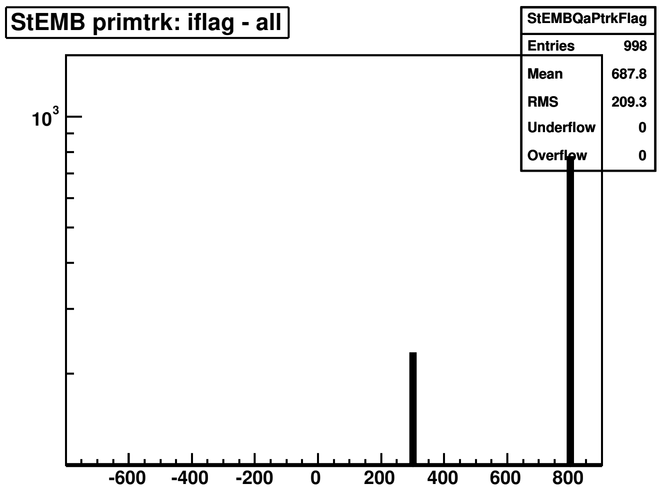


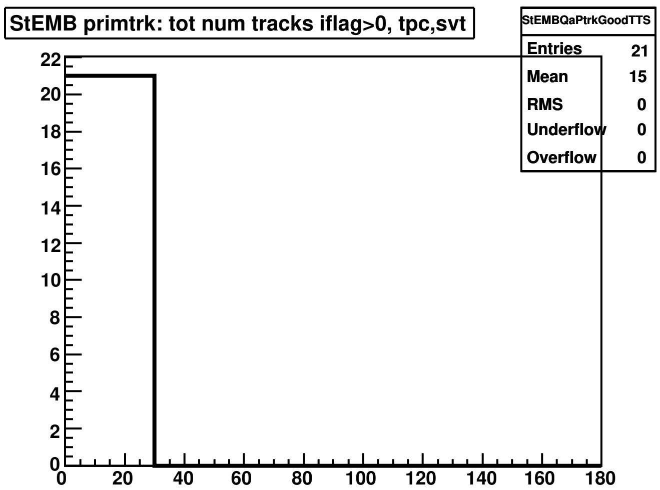


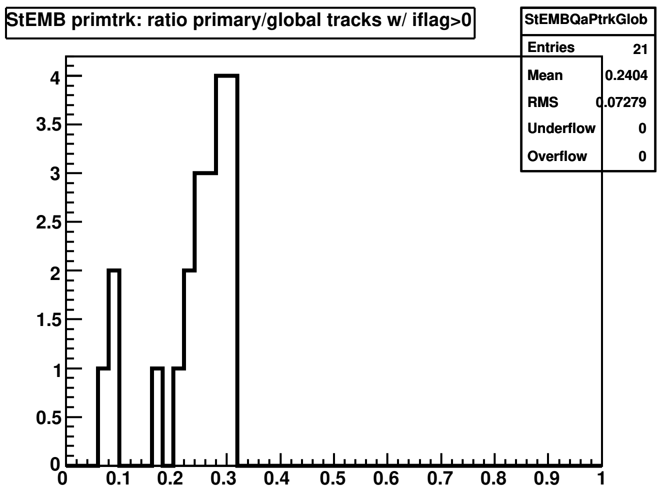

StEMB globtrk: impact param from prim vtx, ftpc
Legend
East
West

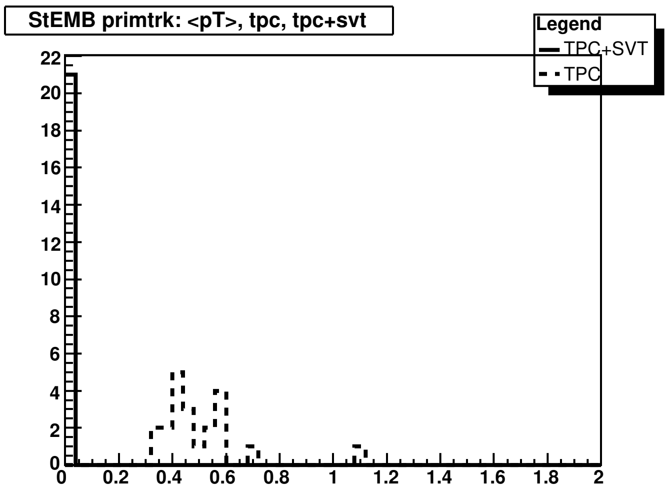

StEMB globtrk: Y vs X of first hit on trk, ftpcE
StEMBQaGtrkXfYfFE
Entries 418
Mean x -0.557
Mean y 0.05639
RMS x 12.24
RMS y 12.99
y first
x first

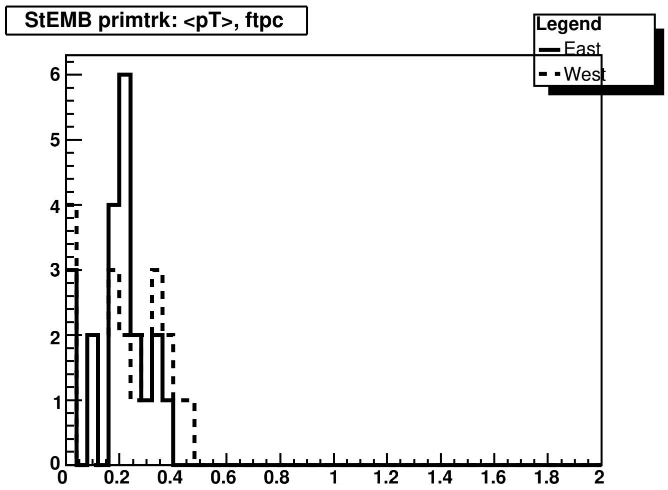

StEMB globtrk: Y vs X of first hit on trk, ftpcW
StEMBQaGtrkXfYfFW
Entries 354
Mean x 1.085
Mean y 1.929
RMS x 12.63
RMS y 12.31
y first
x first

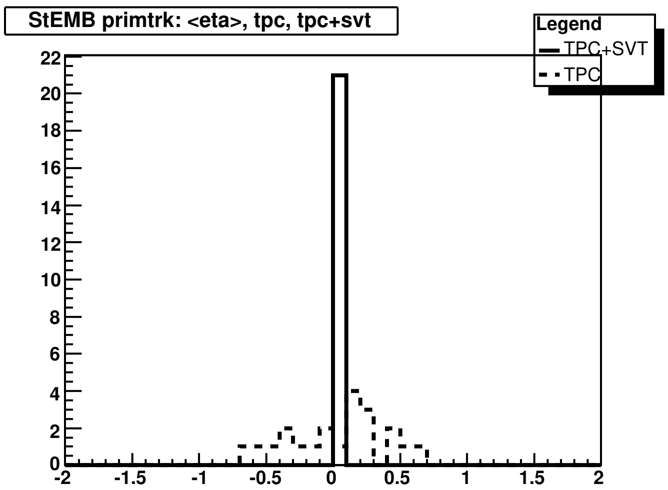

StEMB primtrk: iflag - all
StEMBQaPtrkFlag
Entries 998
Mean 687.8
RMS 209.3
Underflow 0
Overflow 0

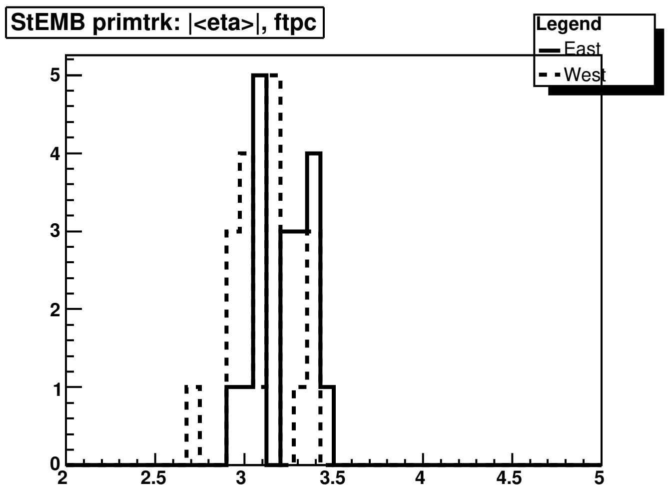

StEMB primtrk: tot num tracks iflag>0, tpc,svt
StEMBQaPtrkGoodTTS
Entries 21
Mean 15
RMS 0
Underflow 0
Overflow 0

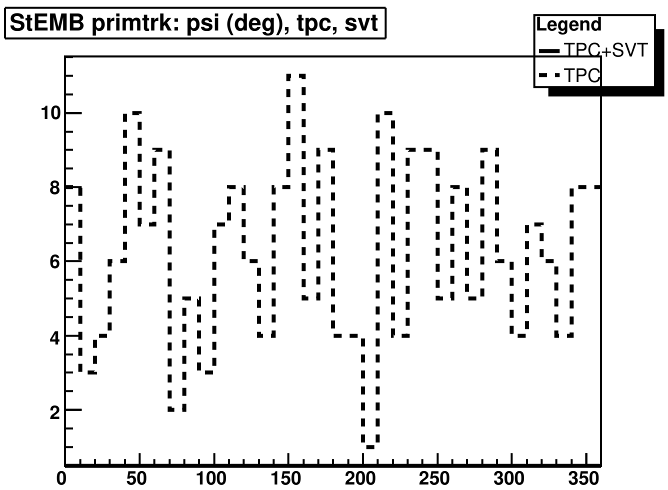

StEMB primtrk: ratio primary/global tracks w/ iflag>0
StEMBQaPtrkGlob
Entries 21
Mean 0.2404
RMS 0.07279
Underflow 0
Overflow 0

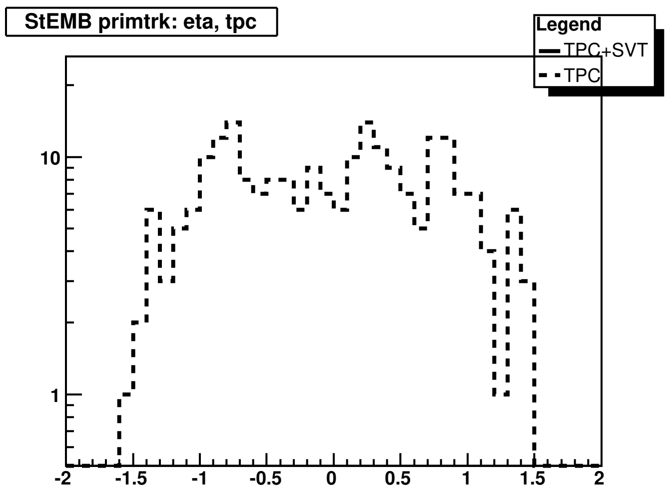

StEMB primtrk: <pT>, tpc, tpc+svt
Legend
TPC+SVT
TPC
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
22
20
18
16
14
12
10
8
6
4
2
0

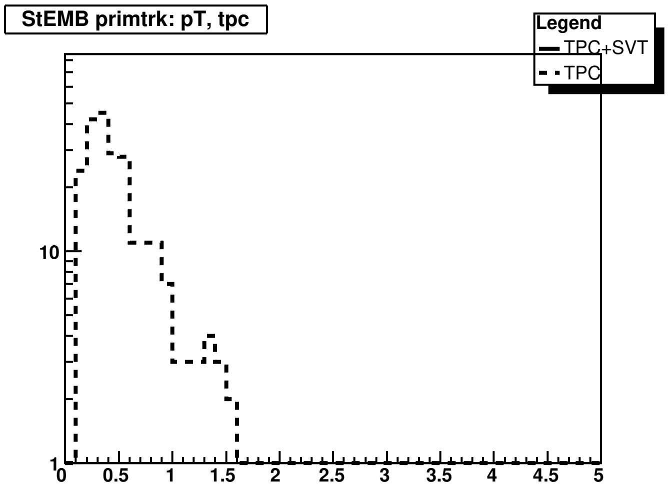

StEMB primtrk: <pT>, ftpc
Legend
East
West
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
6
5
4
3
2
1
0

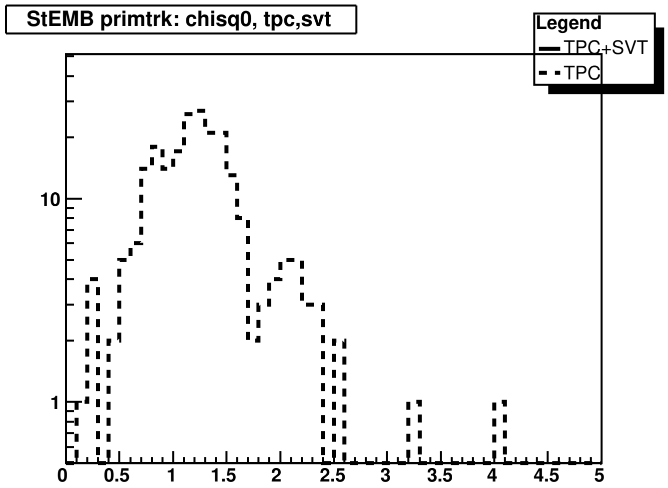

StEMB primtrk: <eta>, tpc, tpc+svt
Legend
TPC+SVT
TPC
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
22
20
18
16
14
12
10
8
6
4
2
0

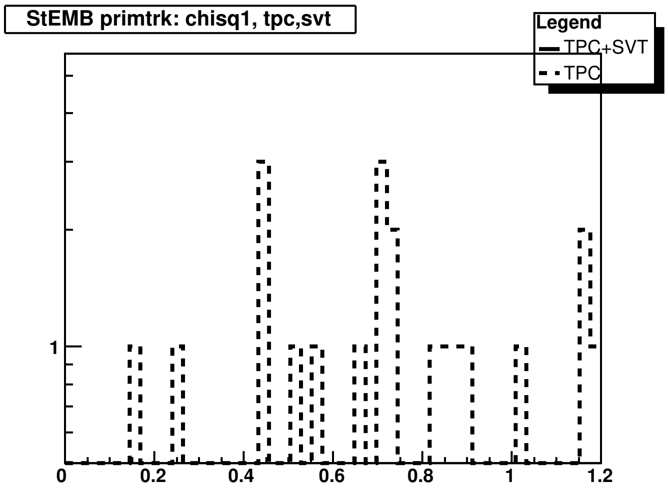

StEMB primtrk: |<eta>|, ftpc
Legend
East
West
2
2.5
3
3.5
4
4.5
5
5
4
3
2
1
0

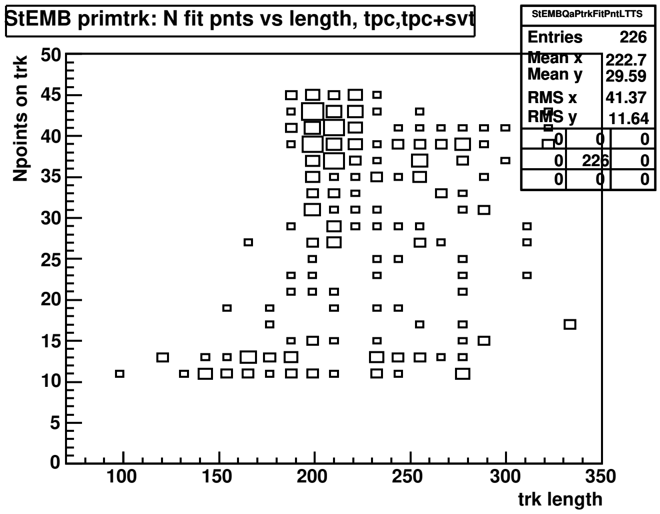

StEMB primtrk: psi (deg), tpc, svt
Legend
TPC+SVT
TPC
0
50
100
150
200
250
300
350
10
8
6
4
2

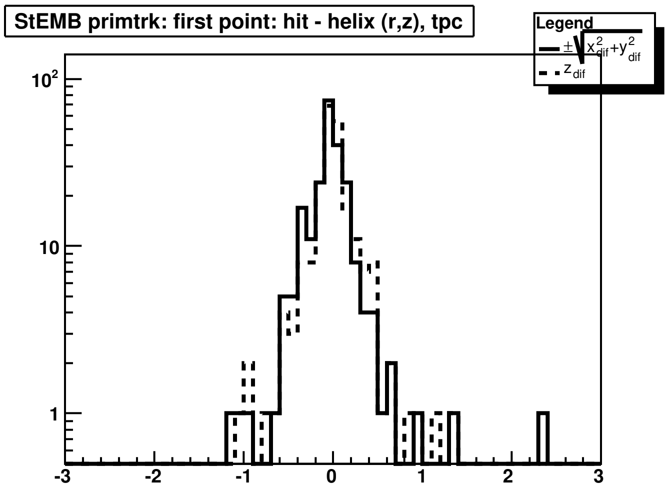

StEMB primtrk: eta, tpc
Legend
TPC+SVT
TPC
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
10
1

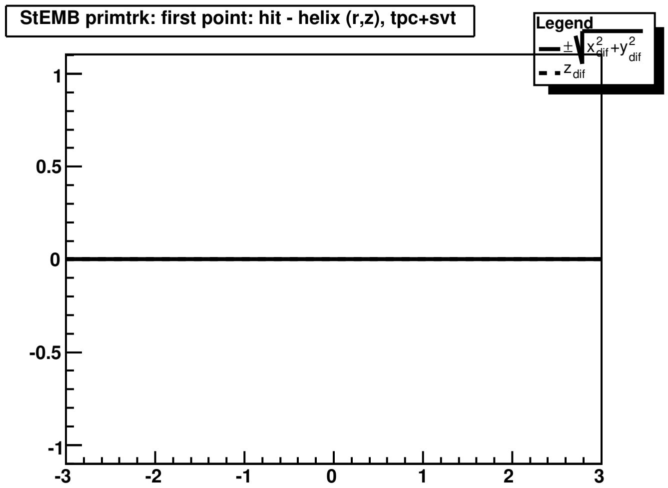

StEMB primtrk: pT, tpc
Legend
TPC+SVT
TPC

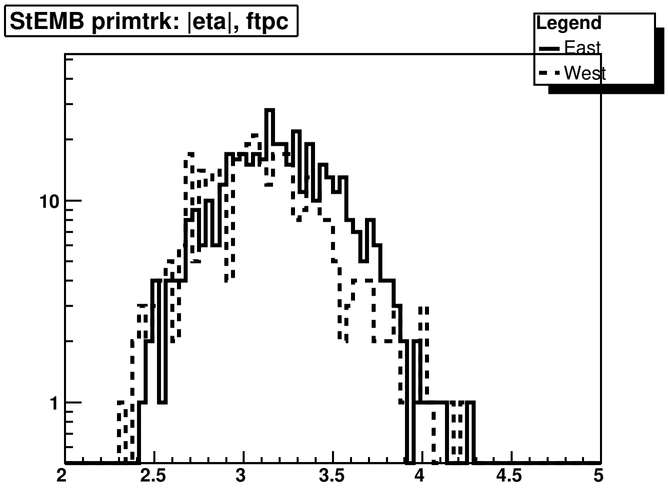

StEMB primtrk: chisq0, tpc,svt
Legend
TPC+SVT
TPC

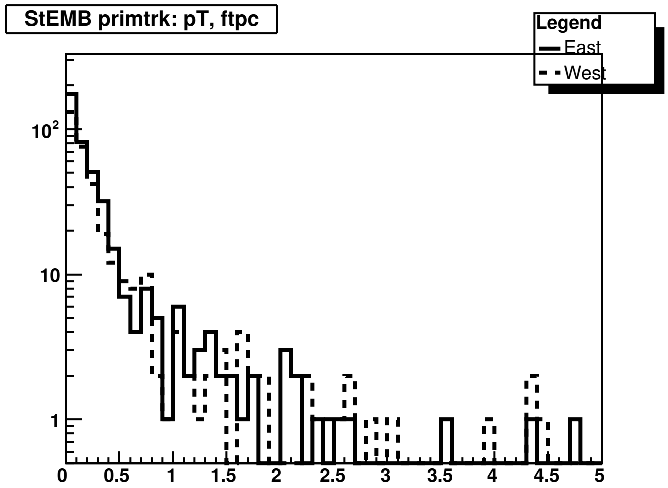

StEMB primtrk: chisq1, tpc,svt
Legend
TPC+SVT
TPC

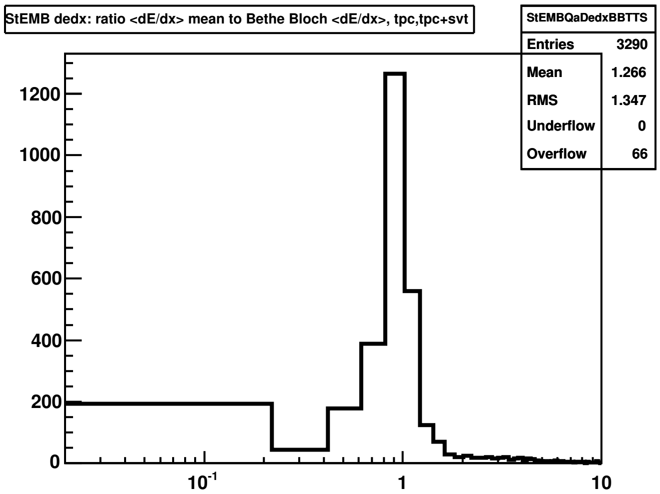

StEMB primtrk: N fit pnts vs length, tpc,tpc+svt
StEMBQaPtrkFitPntLTTS
Entries 226
Mean x 222.7
Mean y 29.59
RMS x 41.37
RMS y 11.64
Npoints on trk
trk length

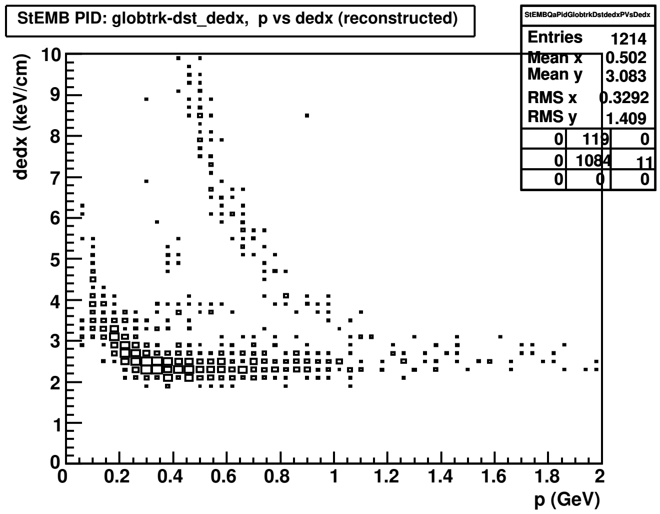

StEMB primtrk: first point: hit - helix (r,z), tpc
Legend
$\pm\sqrt{x_{dif}^2+y_{dif}^2}$
z_{dif}

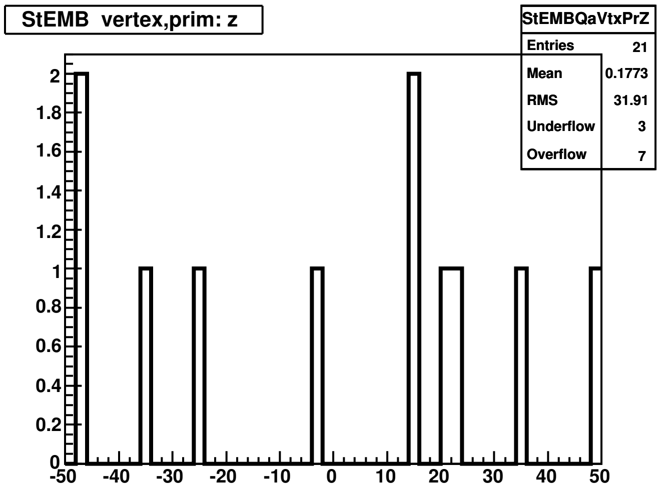

StEMB primtrk: first point: hit - helix (r,z), tpc+svt
Legend
$\pm\sqrt{x_{dif}^2+y_{dif}^2}$
z_{dif}

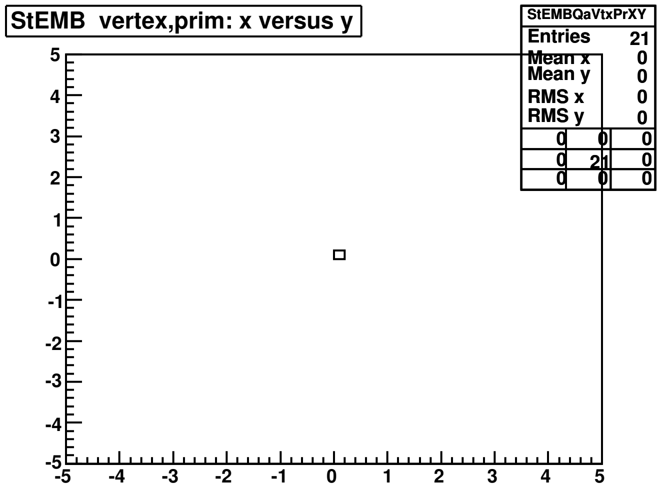

StEMB primtrk: |eta|, ftpc
Legend
East
West
10
1
2
2.5
3
3.5
4
4.5
5

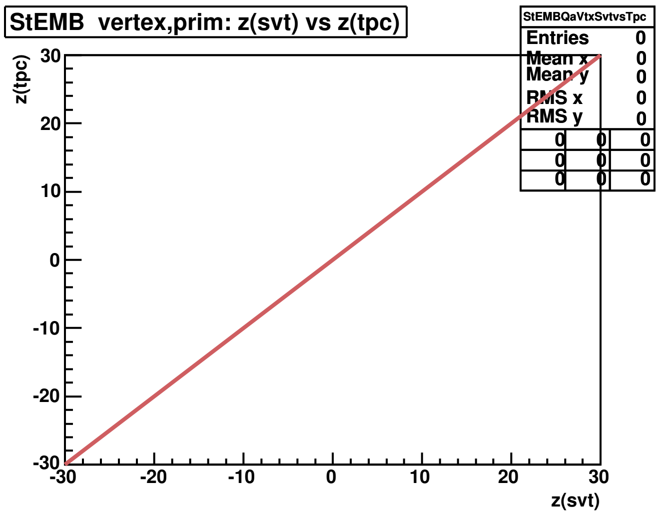

StEMB primtrk: pT, ftpc
Legend
East
West
10^2
10
1
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5

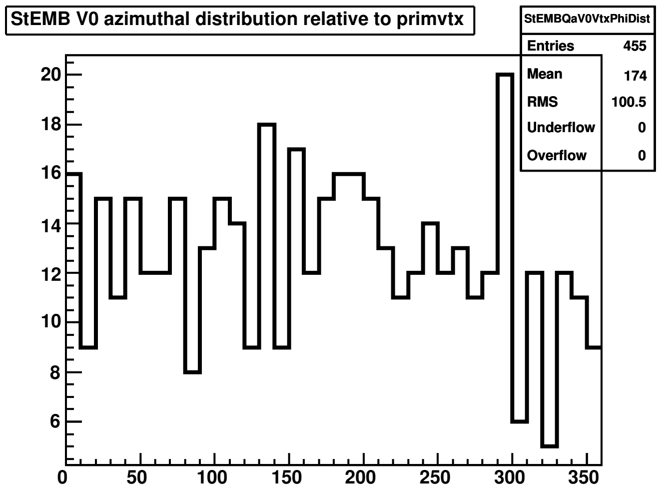

StEMB dedx: ratio <dE/dx> mean to Bethe Bloch <dE/dx>, tpc,tpc+svt
StEMBQaDedxBBTTS
Entries 3290
Mean 1.266
RMS 1.347
Underflow 0
Overflow 66
1200
1000
800
600
400
200
0
10^{-1}
1
10

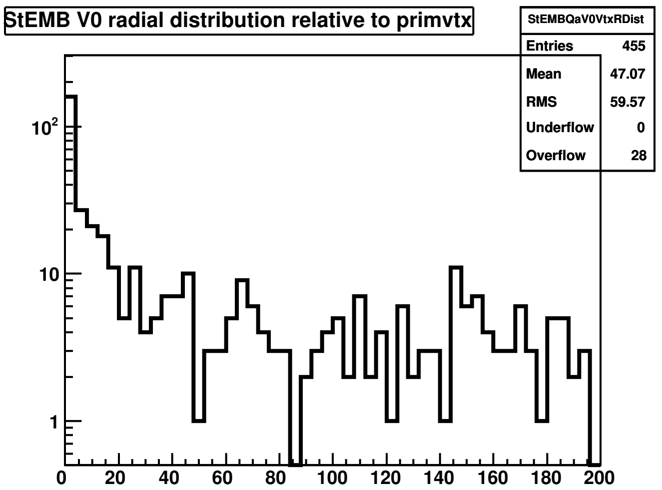

StEMB PID: globtrk-dst_dedx, p vs dedx (reconstructed)
Entries 1214
Mean x 0.502
Mean y 3.083
RMS x 0.3292
RMS y 1.409
0 119 0
0 1084 11
0 0 0
dedx (keV/cm)
p (GeV)
10
9
8
7
6
5
4
3
2
1
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

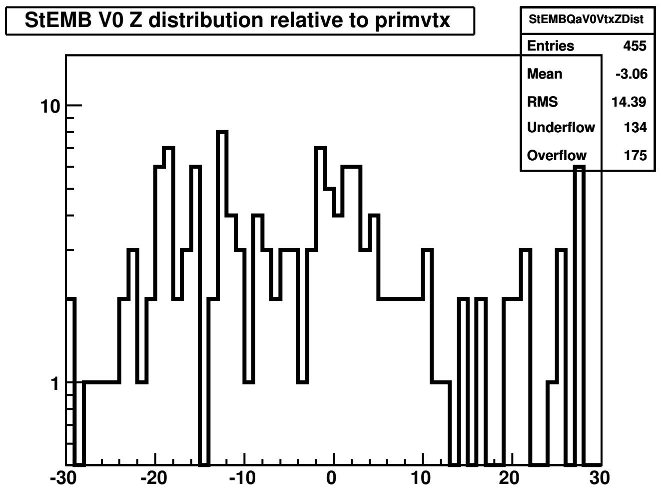

StEMB vertex,prim: z
StEMBQaVtxPrZ
Entries 21
Mean 0.1773
RMS 31.91
Underflow 3
Overflow 7
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
-50
-40
-30
-20
-10
0
10
20
30
40
50

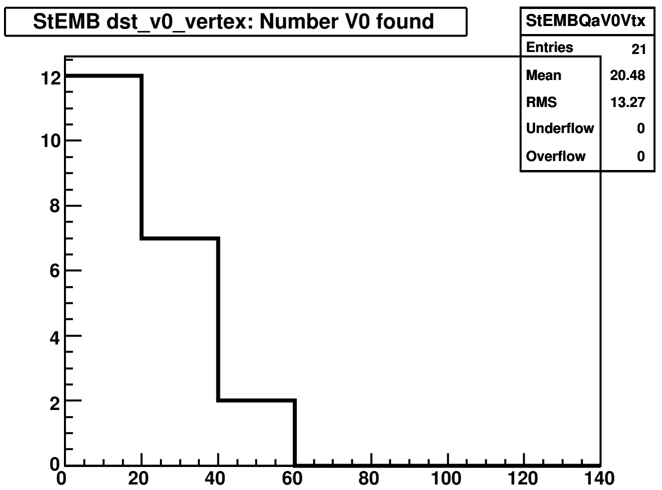

StEMB vertex,prim: x versus y
StEMBQaVtxPrXY
Entries 21
Mean x 0
Mean y 0
RMS x 0
RMS y 0
0 0 0
0 21 0
0 0 0
5
4
3
2
1
0
-1
-2
-3
-4
-5
-5
-4
-3
-2
-1
0
1
2
3
4
5

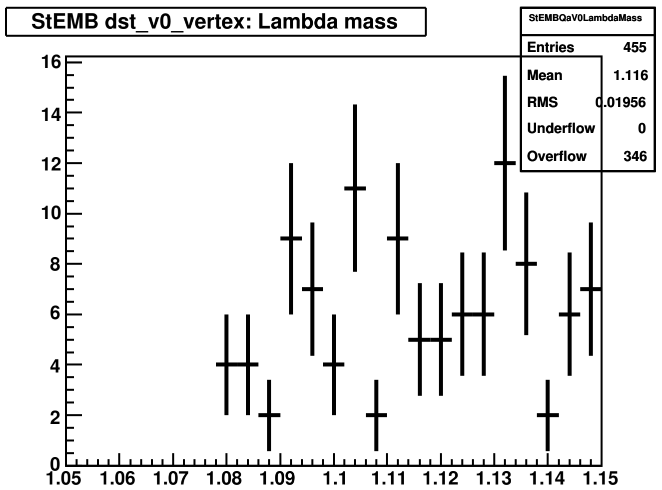

StEMB vertex,prim: z(svt) vs z(tpc)
StEMBQaVtxSvtvsTpc
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
z(tpc)
z(svt)

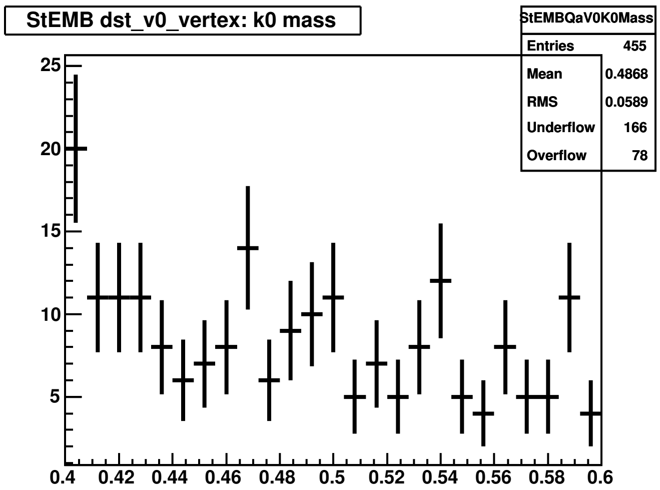

StEMB V0 azimuthal distribution relative to primvtx
StEMBQaV0VtxPhiDist
Entries 455
Mean 174
RMS 100.5
Underflow 0
Overflow 0

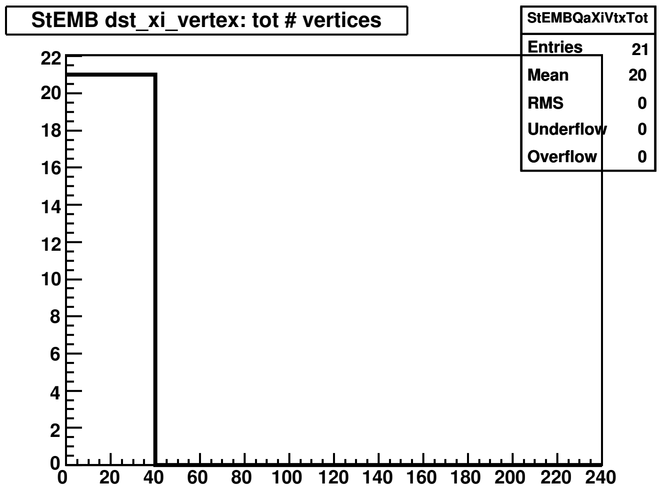

StEMB V0 radial distribution relative to primvtx
StEMBQaV0VtxRDist
Entries 455
Mean 47.07
RMS 59.57
Underflow 0
Overflow 28

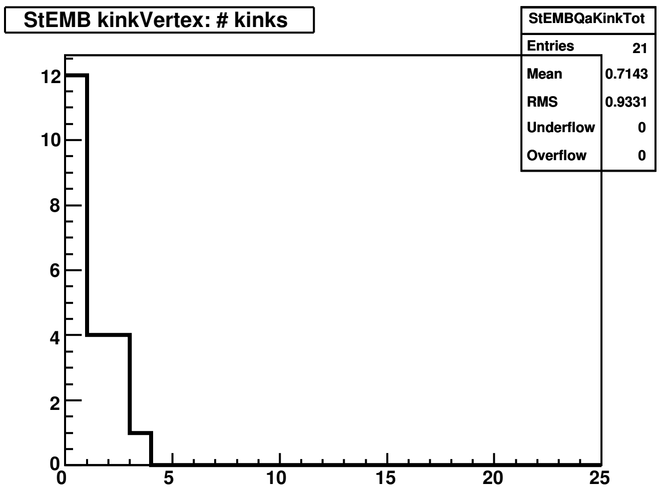

StEMB V0 Z distribution relative to primvtx
StEMBQaV0VtxZDist
Entries 455
Mean -3.06
RMS 14.39
Underflow 134
Overflow 175

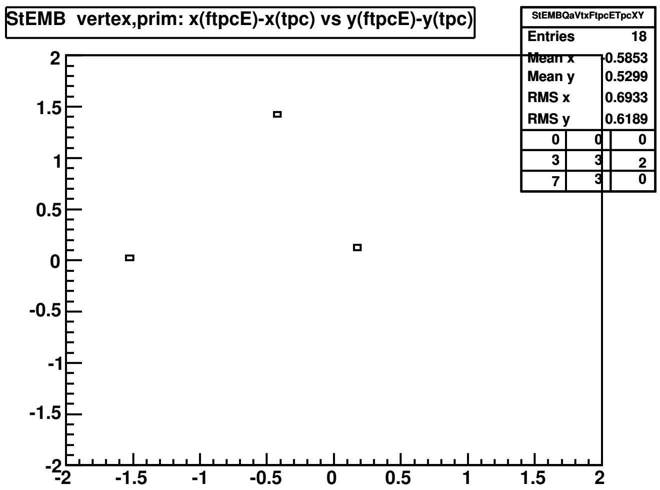

StEMB dst_v0_vertex: Number V0 found
StEMBQaV0Vtx
Entries 21
Mean 20.48
RMS 13.27
Underflow 0
Overflow 0

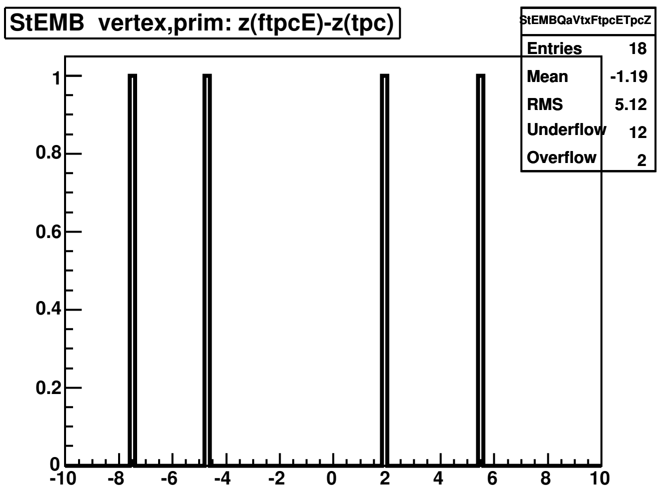

StEMB dst_v0_vertex: Lambda mass
StEMBQaV0LambdaMass
Entries 455
Mean 1.116
RMS 0.01956
Underflow 0
Overflow 346

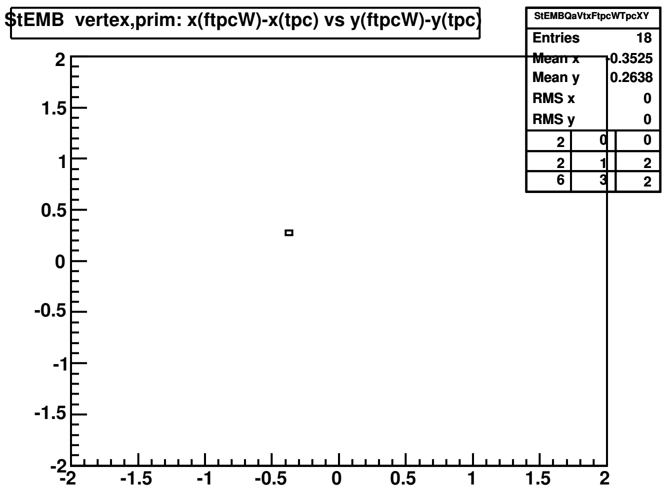

StEMB dst_v0_vertex: k0 mass
StEMBQaV0K0Mass
Entries 455
Mean 0.4868
RMS 0.0589
Underflow 166
Overflow 78
0.4 0.42 0.44 0.46 0.48 0.5 0.52 0.54 0.56 0.58 0.6
5 10 15 20 25

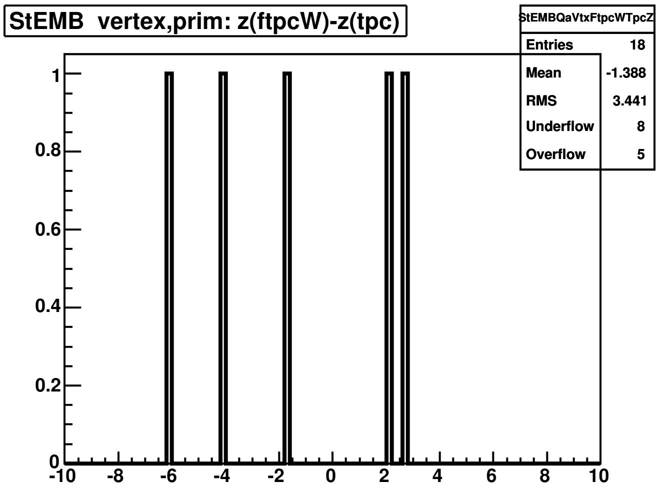

StEMB dst_xi_vertex: tot # vertices
StEMBQaXiVtxTot
Entries 21
Mean 20
RMS 0
Underflow 0
Overflow 0
0 20 40 60 80 100 120 140 160 180 200 220 240
0 2 4 6 8 10 12 14 16 18 20 22


StEMB kinkVertex: # kinks
StEMBQaKinkTot
Entries 21
Mean 0.7143
RMS 0.9331
Underflow 0
Overflow 0
0 5 10 15 20 25
0 2 4 6 8 10 12


StEMB vertex,prim: x(ftpcE)-x(tpc) vs y(ftpcE)-y(tpc)
StEMBQaVtxFtpcETpcXY
Entries 18
Mean x -0.5853
Mean y 0.5299
RMS x 0.6933
RMS y 0.6189
0 0 0
3 3 2
7 3 0
-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 18
Mean -1.19
RMS 5.12
Underflow 12
Overflow 2
-10 -8 -6 -4 -2 0 2 4 6 8 10
0 0.2 0.4 0.6 0.8 1


StEMB vertex,prim: x(ftpcW)-x(tpc) vs y(ftpcW)-y(tpc)
StEMBQaVtxFtpcWTpcXY
Entries 18
Mean x -0.3525
Mean y 0.2638
RMS x 0
RMS y 0
2 0 0
2 1 2
6 3 2
-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 18
Mean -1.388
RMS 3.441
Underflow 8
Overflow 5
1
0.8
0.6
0.4
0.2
0
-10
-8
-6
-4
-2
0
2
4
6
8
10