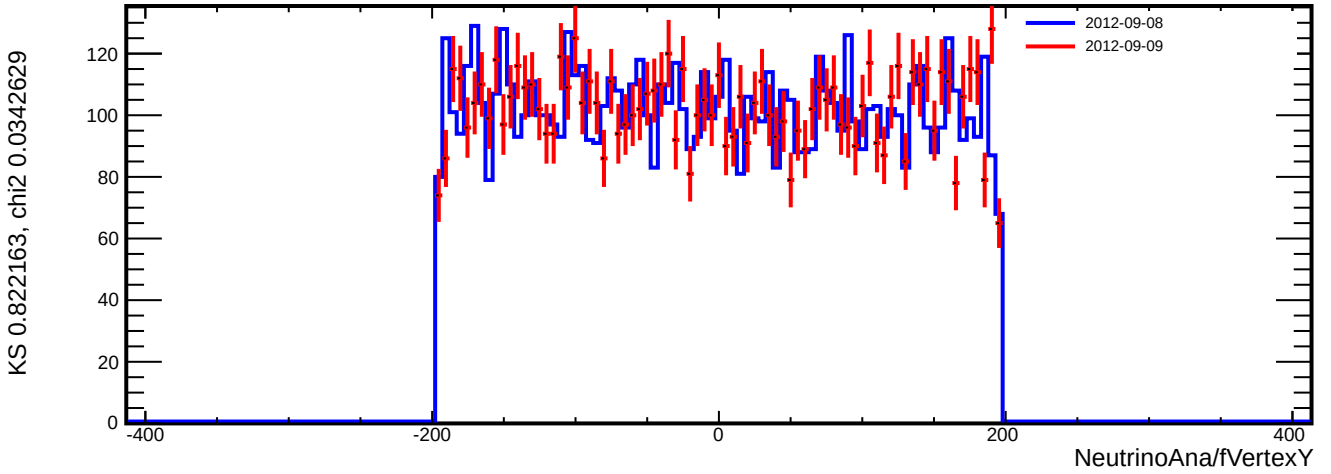
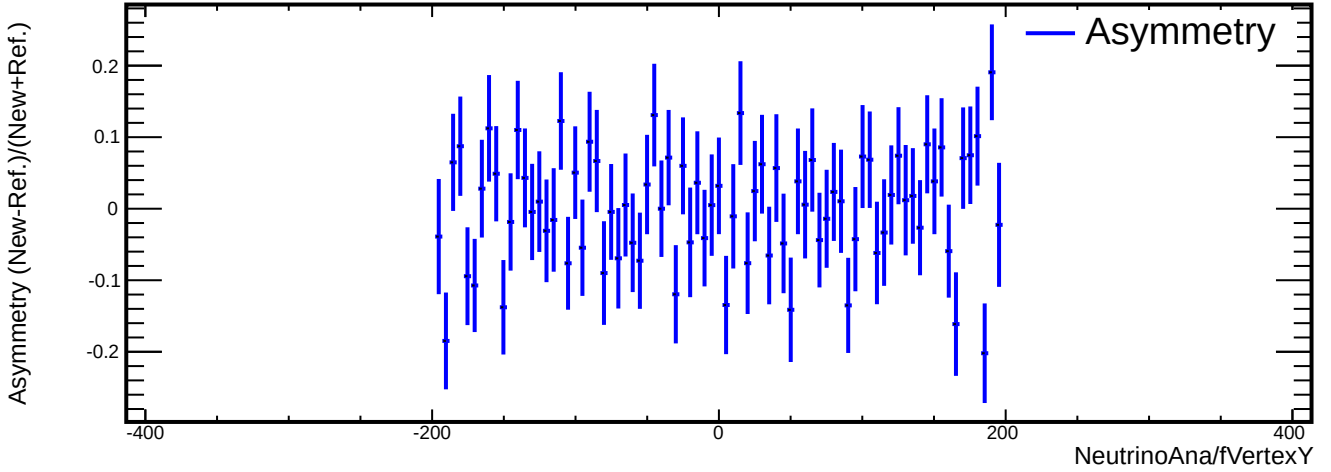
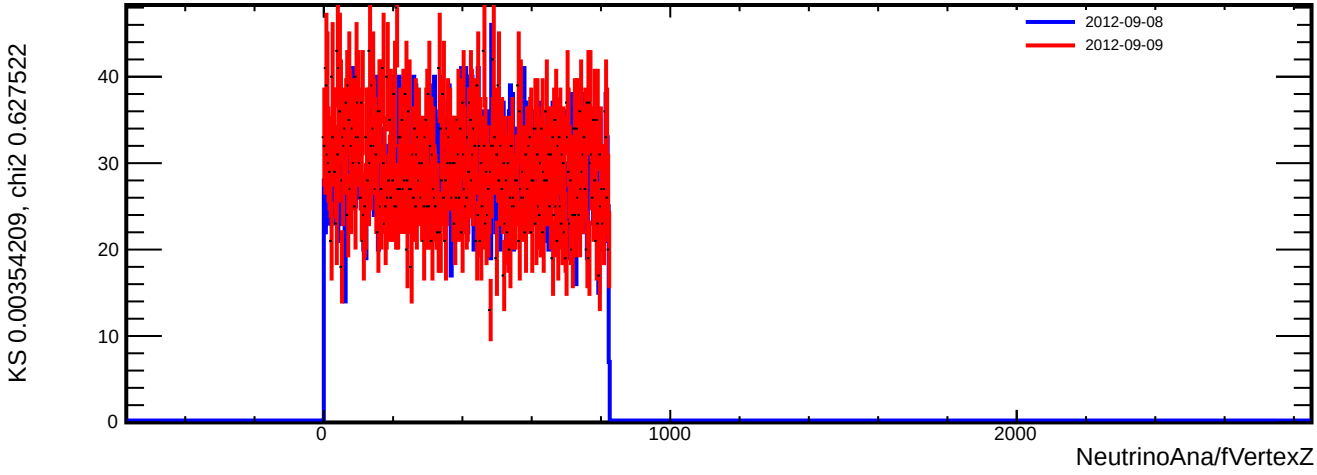
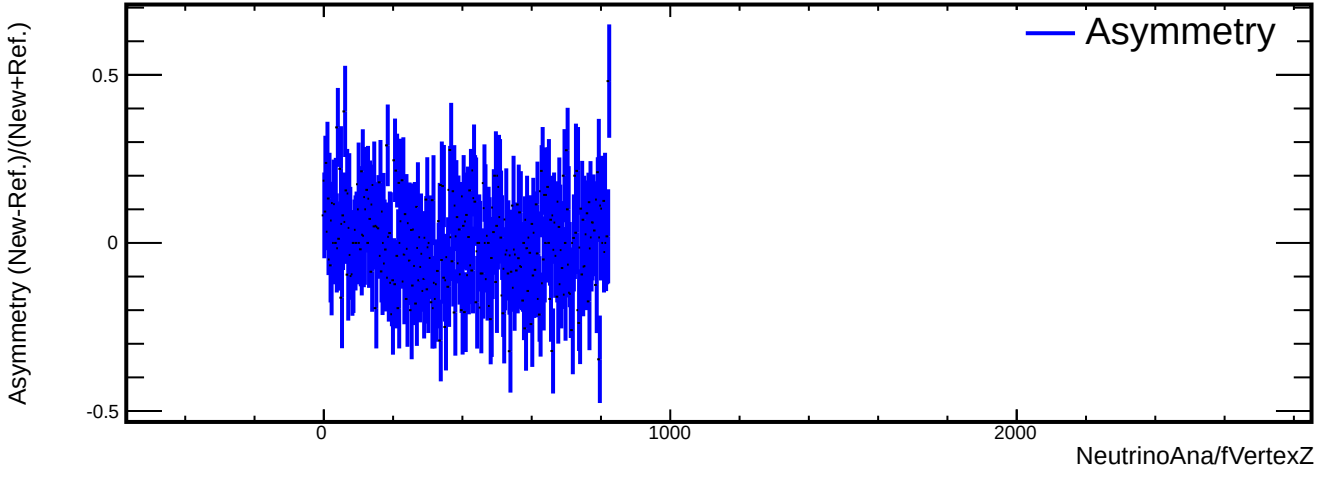
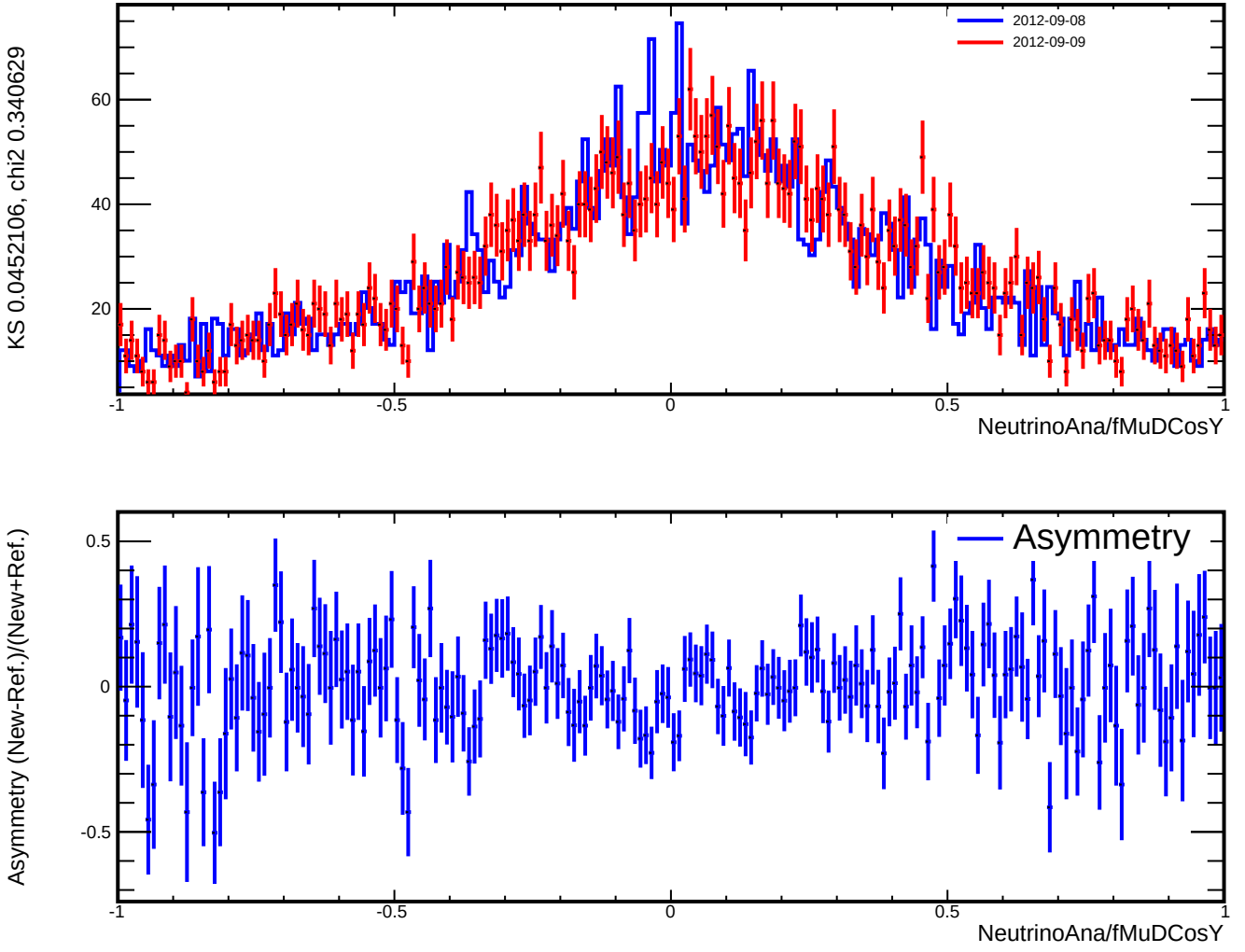
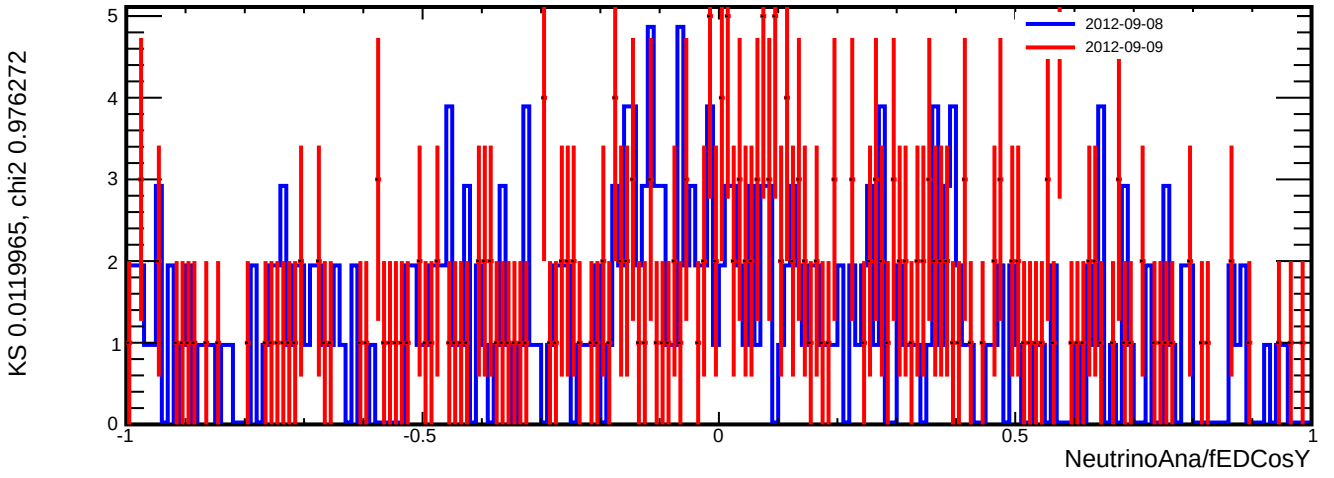

KS 0.822163, chi2 0.0342629
2012-09-08
2012-09-09
NeutrinoAna/fVertexY

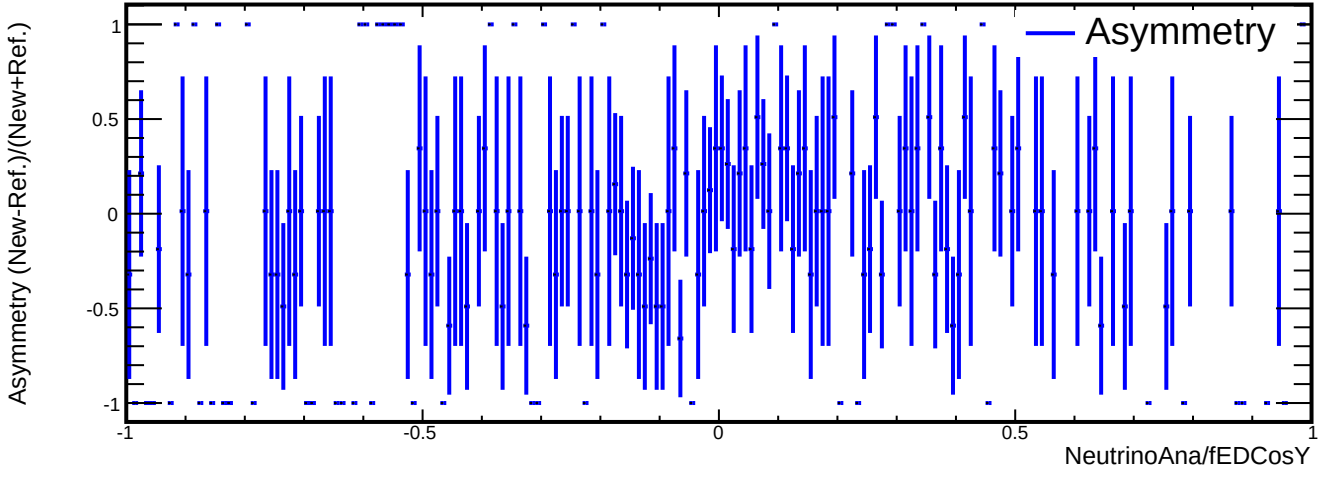

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fVertexY

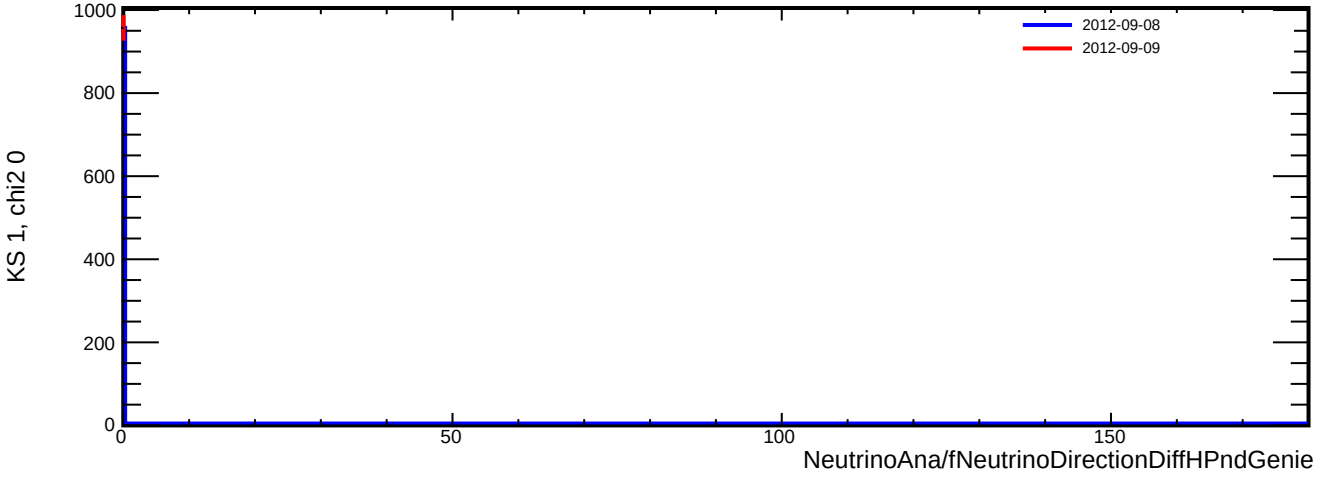

KS 0.00354209, chi2 0.627522
2012-09-08
2012-09-09
0
10
20
30
40
0
1000
2000
NeutrinoAna/fVertexZ

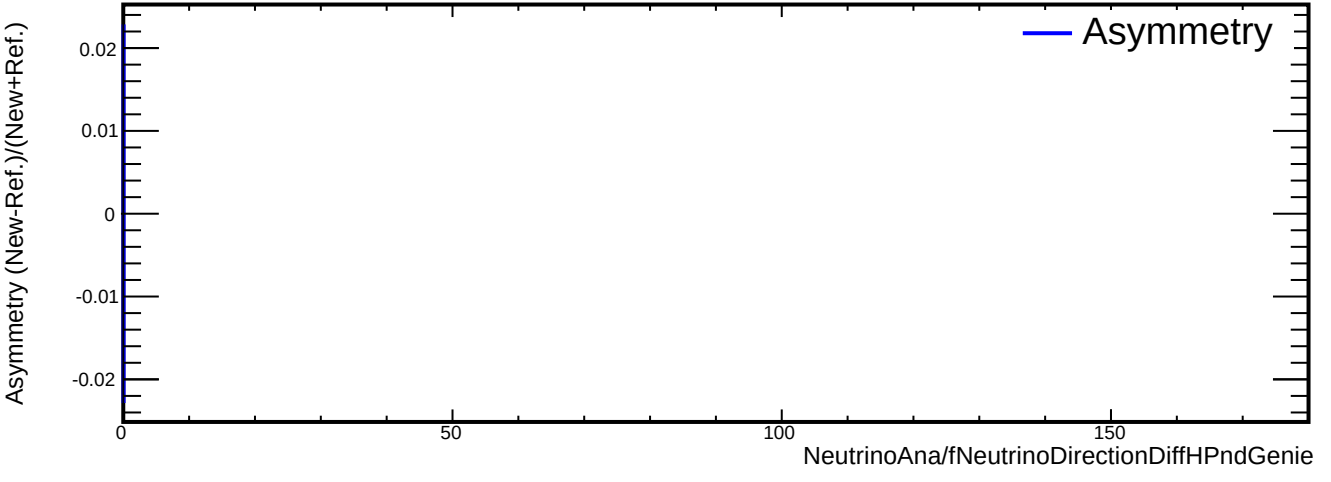

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
0
1000
2000
NeutrinoAna/fVertexZ

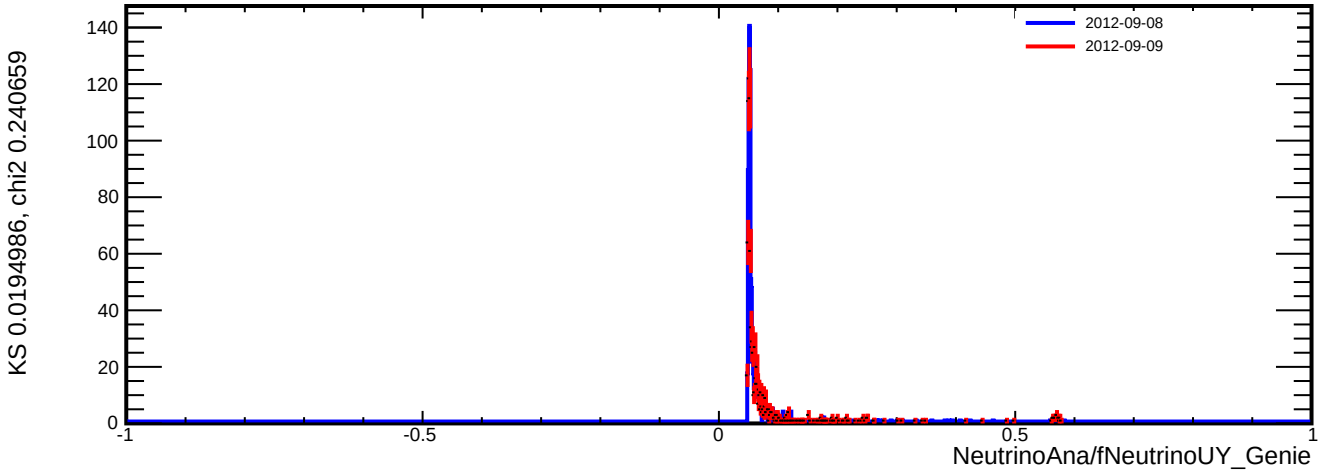

KS 0.0452106, chi2 0.340629
2012-09-08
2012-09-09
60
40
20
-1
-0.5
0
0.5
1
NeutrinoAna/fMuDCosY
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
-1
-0.5
0
0.5
1
NeutrinoAna/fMuDCosY

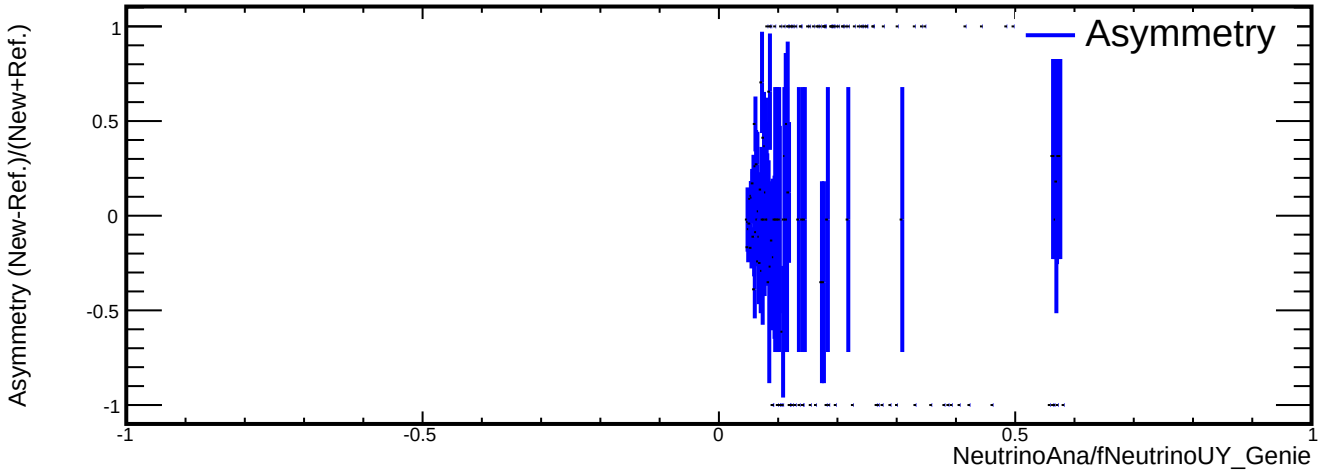

KS 0.0119965, chi2 0.976272
2012-09-08
2012-09-09
NeutrinoAna/fEDCosY

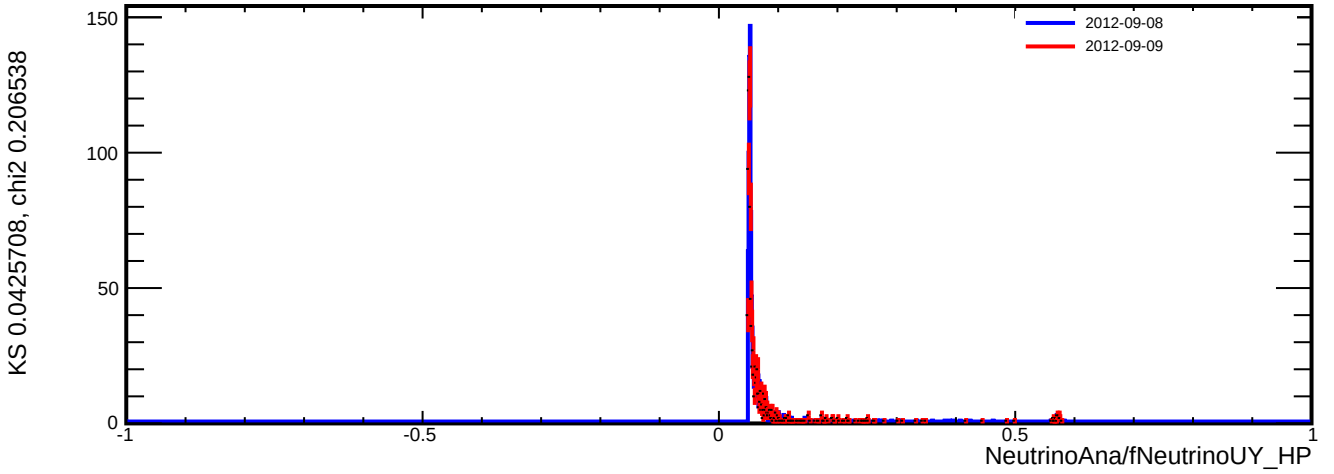

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEDCosY

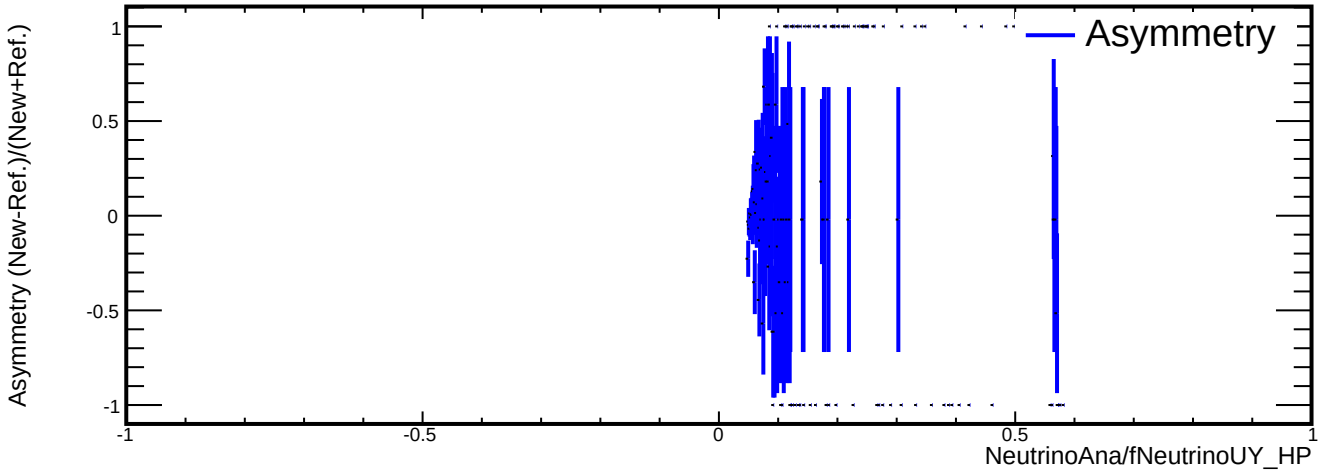

KS 1, chi2 0
1000
800
600
400
200
0
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie
2012-09-08
2012-09-09

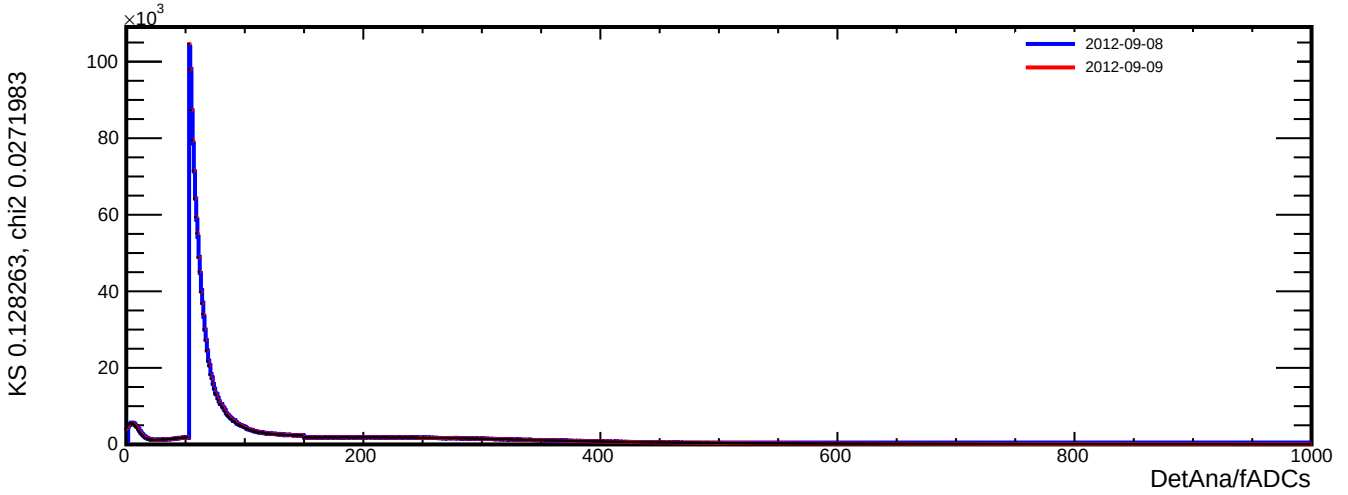

Asymmetry (New-Ref.)/(New+Ref.)
0.02
0.01
0
-0.01
-0.02
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie
Asymmetry

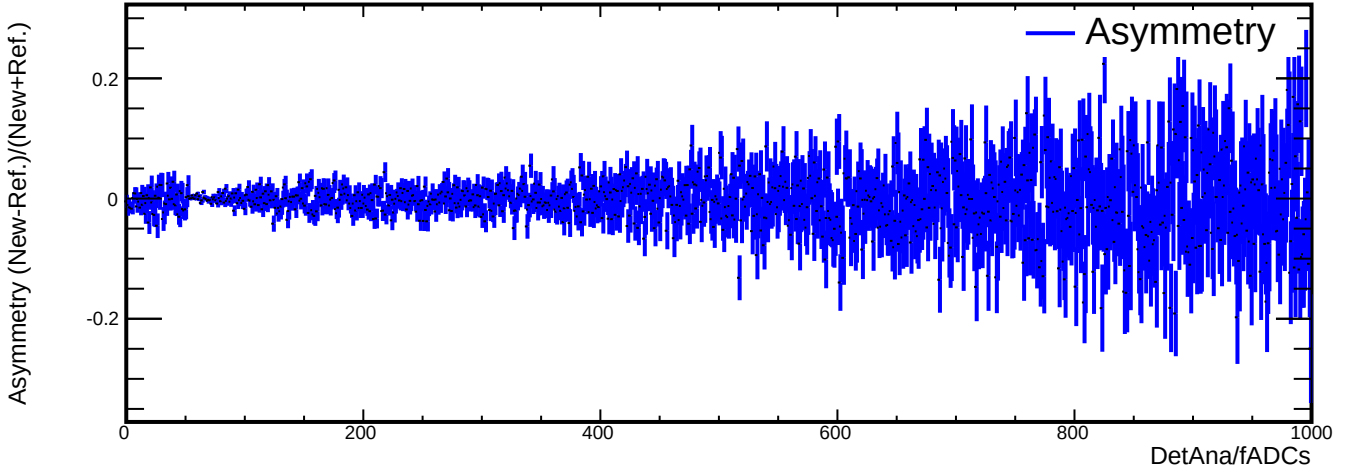

KS 0.0194986, chi2 0.240659
2012-09-08
2012-09-09
NeutrinoAna/fNeutrinoUY_Genie

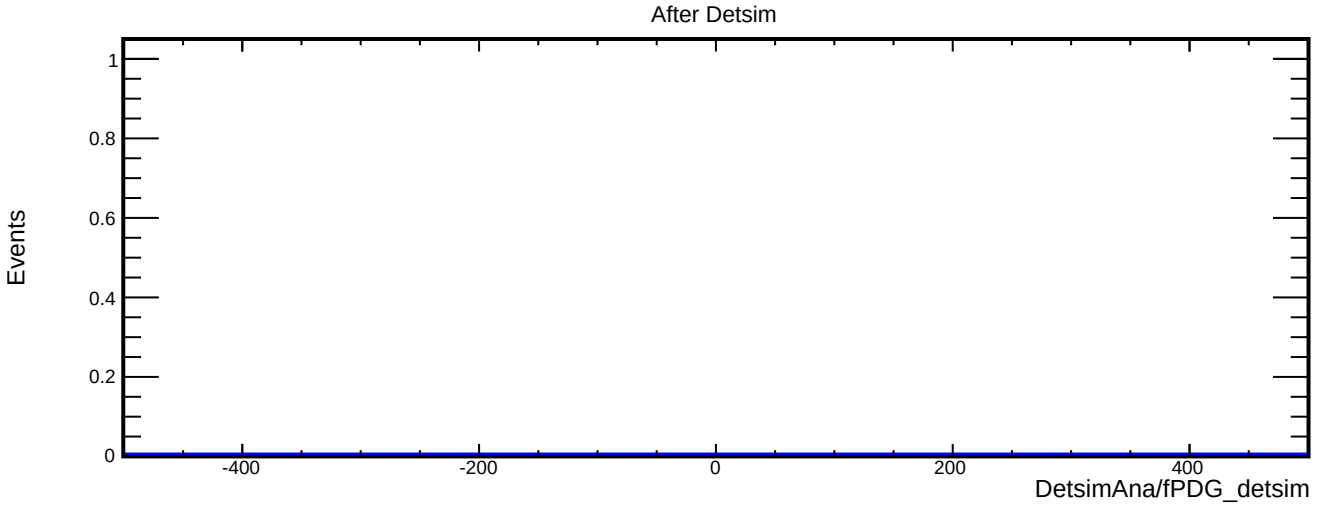

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fNeutrinoUY_Genie

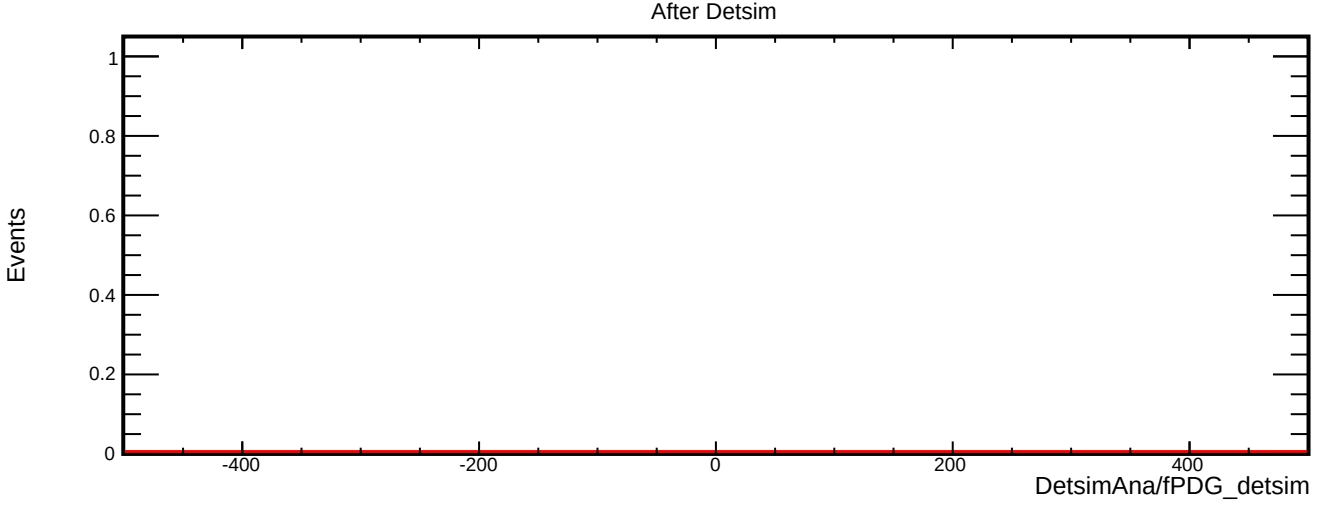

KS 0.0425708, chi2 0.206538
150
100
50
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUY_HP
2012-09-08
2012-09-09

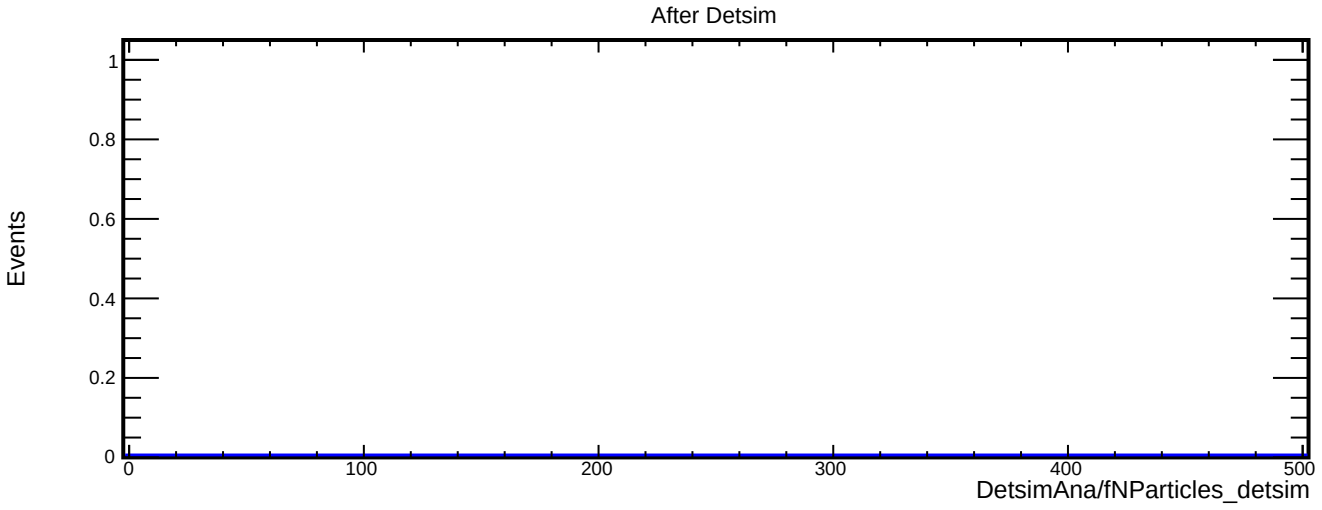

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUY_HP
Asymmetry

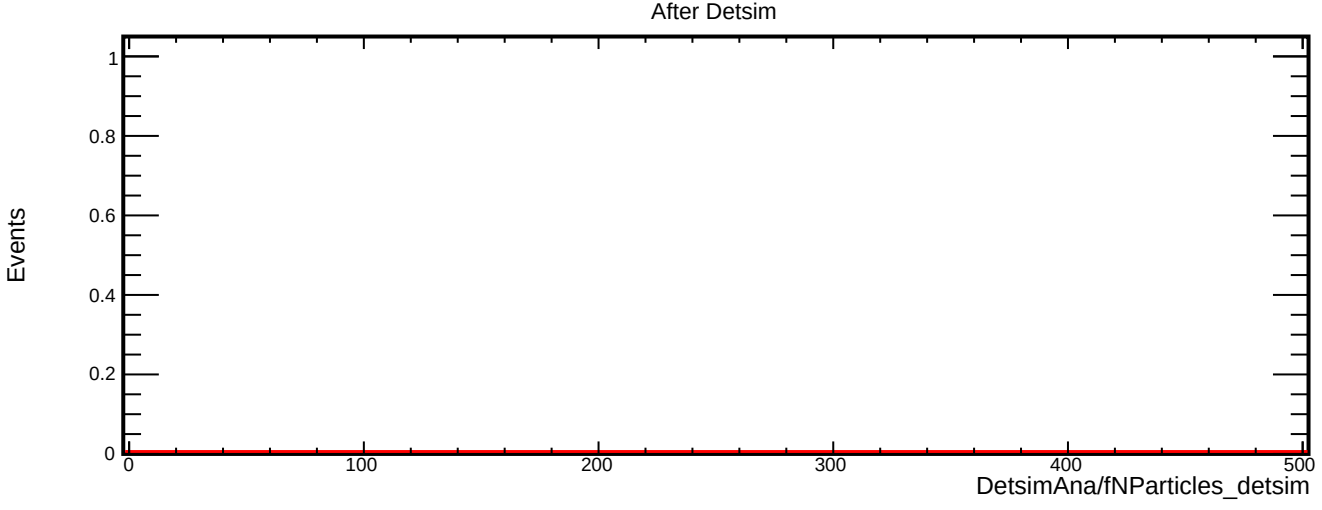

×10^3
100
80
60
40
20
0
0
200
400
600
800
1000
KS 0.128263, chi2 0.0271983
DetAna/fADCs
2012-09-08
2012-09-09

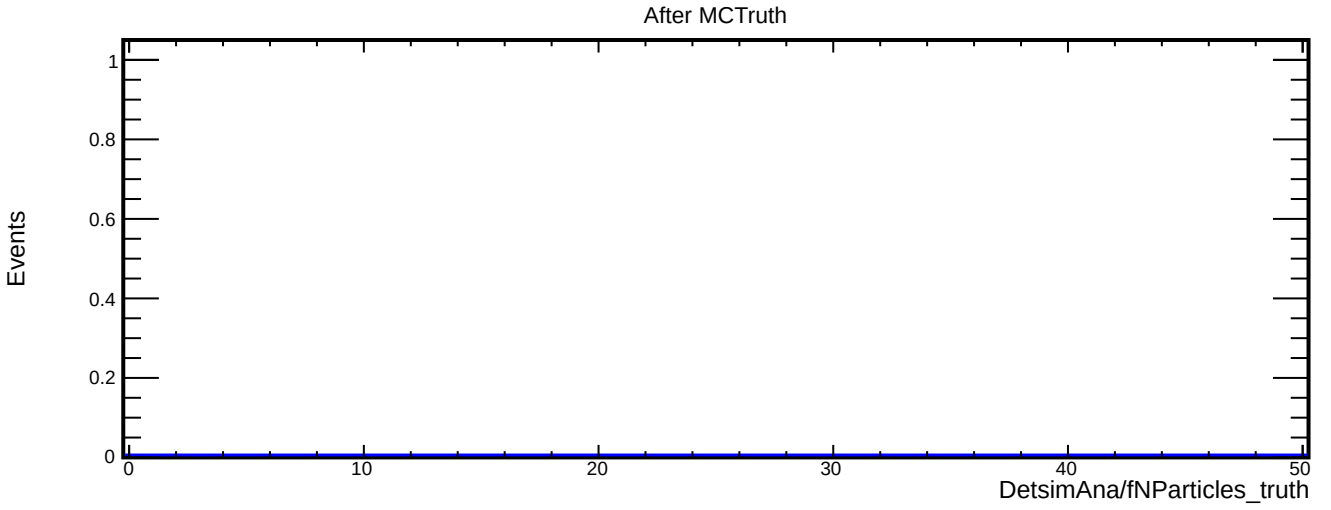

0.2
0
-0.2
0
200
400
600
800
1000
Asymmetry (New-Ref.)/(New+Ref.)
DetAna/fADCs
Asymmetry

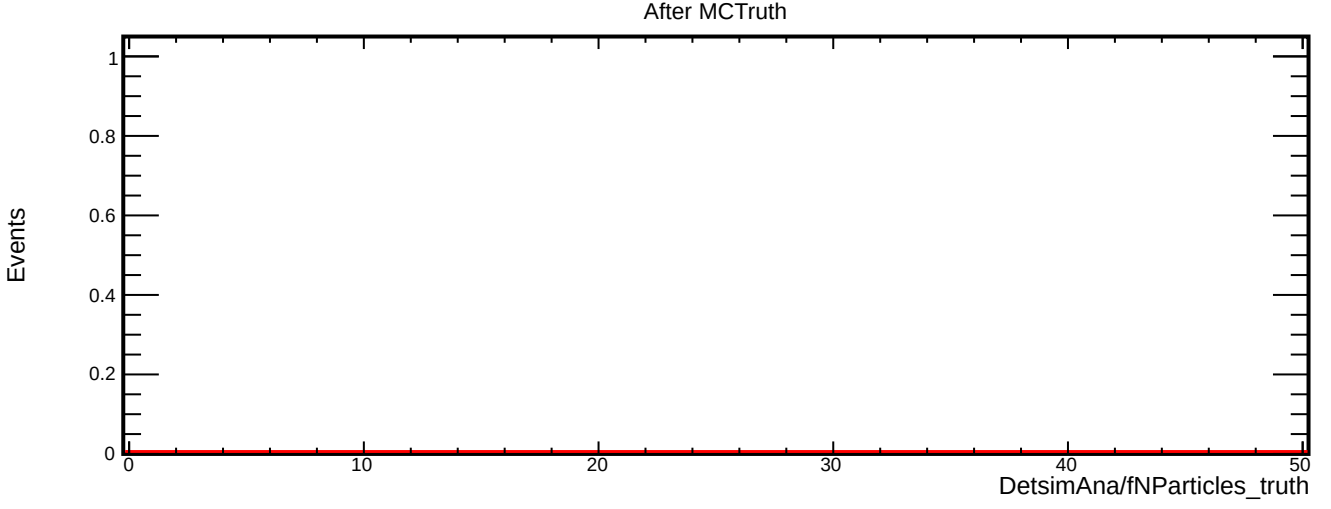

After Detsim
Events
1
0.8
0.6
0.4
0.2
0
-400
-200
0
200
400
DetsimAna/fPDG_detsim

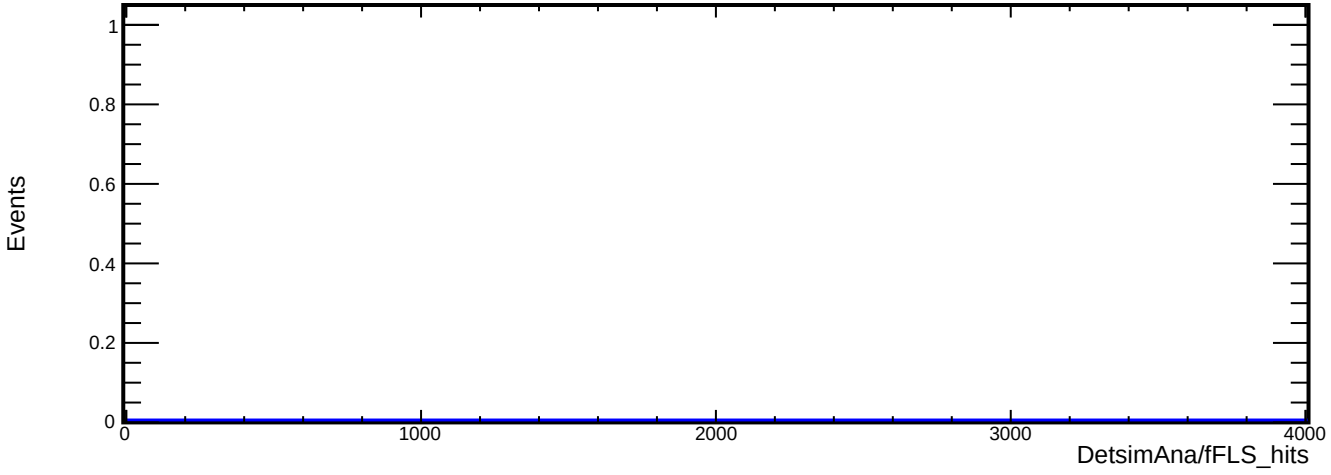

After Detsim
Events
1
0.8
0.6
0.4
0.2
0
-400
-200
0
200
400
DetsimAna/fPDG_detsim

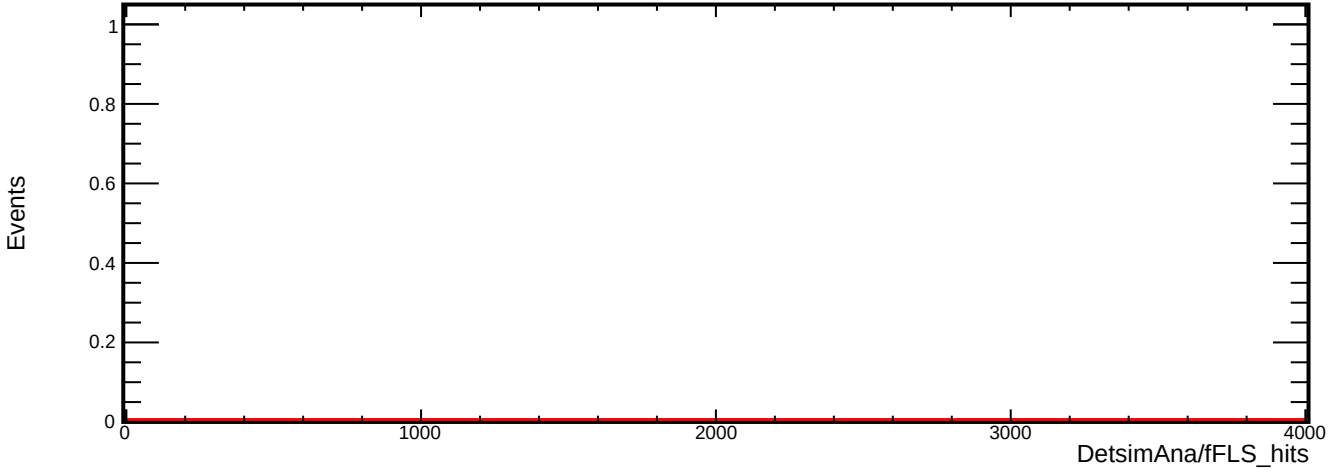

After Detsim
Events
1
0.8
0.6
0.4
0.2
0
0
100
200
300
400
500
DetsimAna/fNParticles_detsim

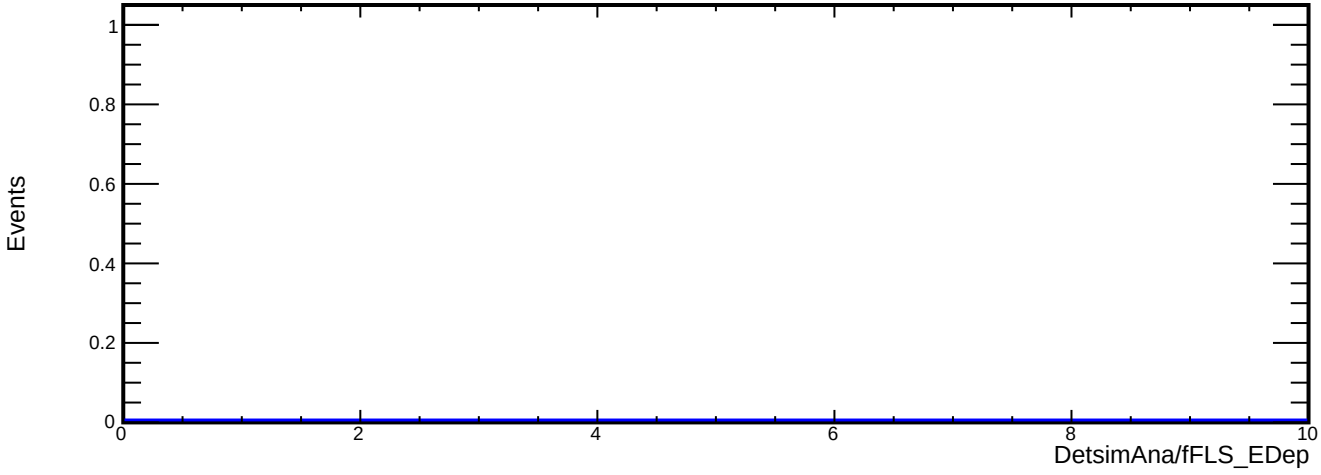

After Detsim
Events
1
0.8
0.6
0.4
0.2
0
0
100
200
300
400
500
DetsimAna/fNParticles_detsim

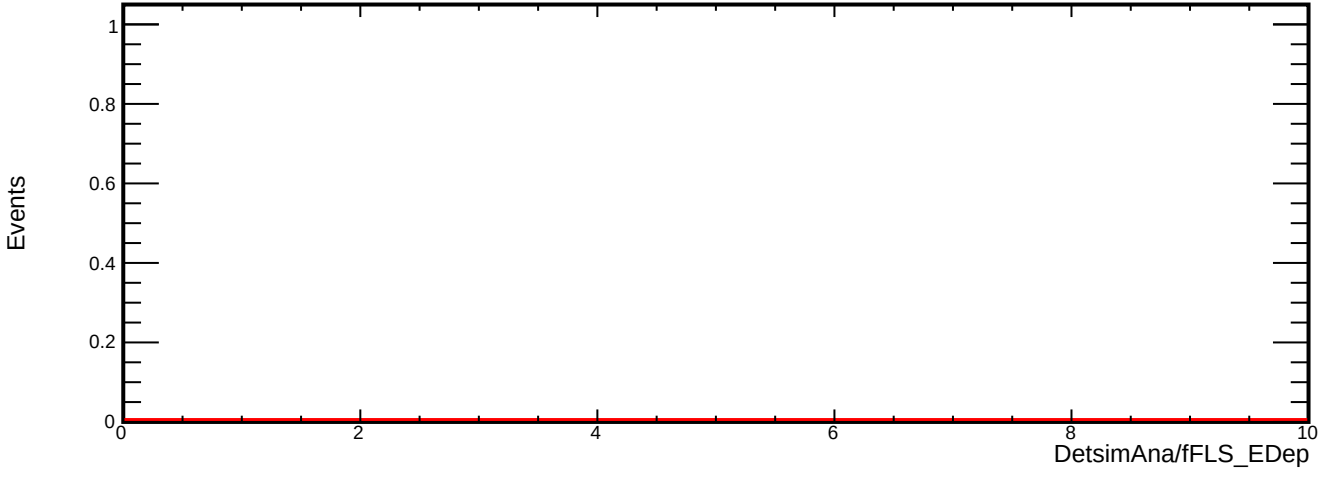

After MCTruth
Events
1
0.8
0.6
0.4
0.2
0
0
10
20
30
40
50
DetsimAna/fNParticles_truth

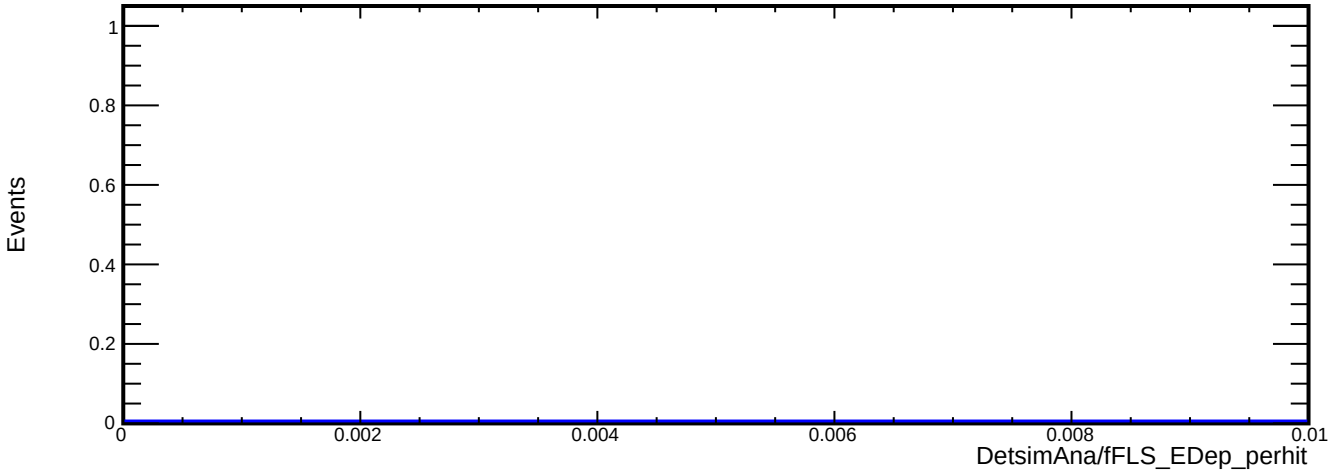

After MCTruth
Events
1
0.8
0.6
0.4
0.2
0
0
10
20
30
40
50
DetsimAna/fNParticles_truth

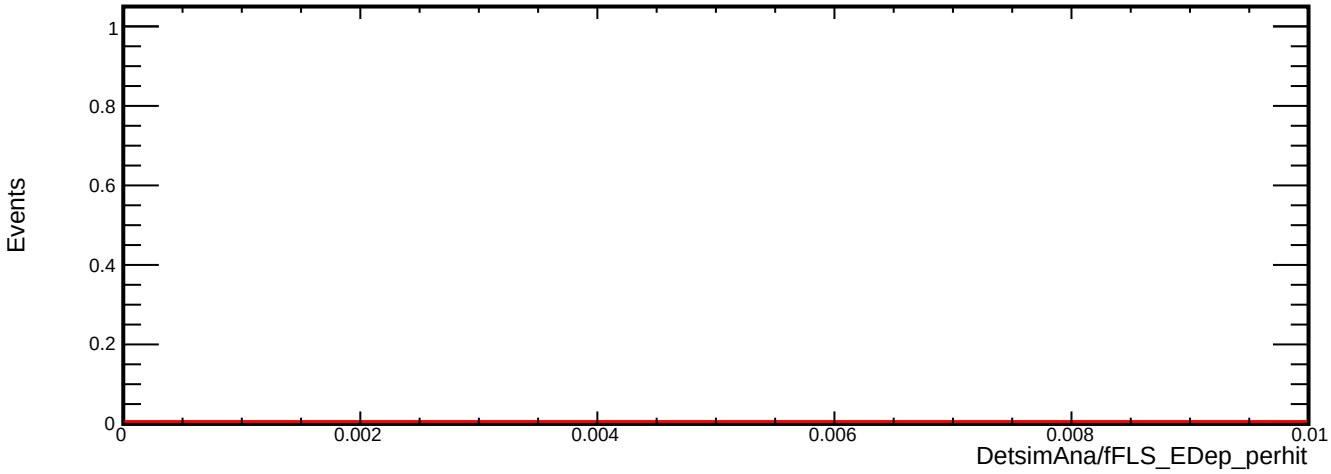

Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
DetsimAna/fFLS_hits

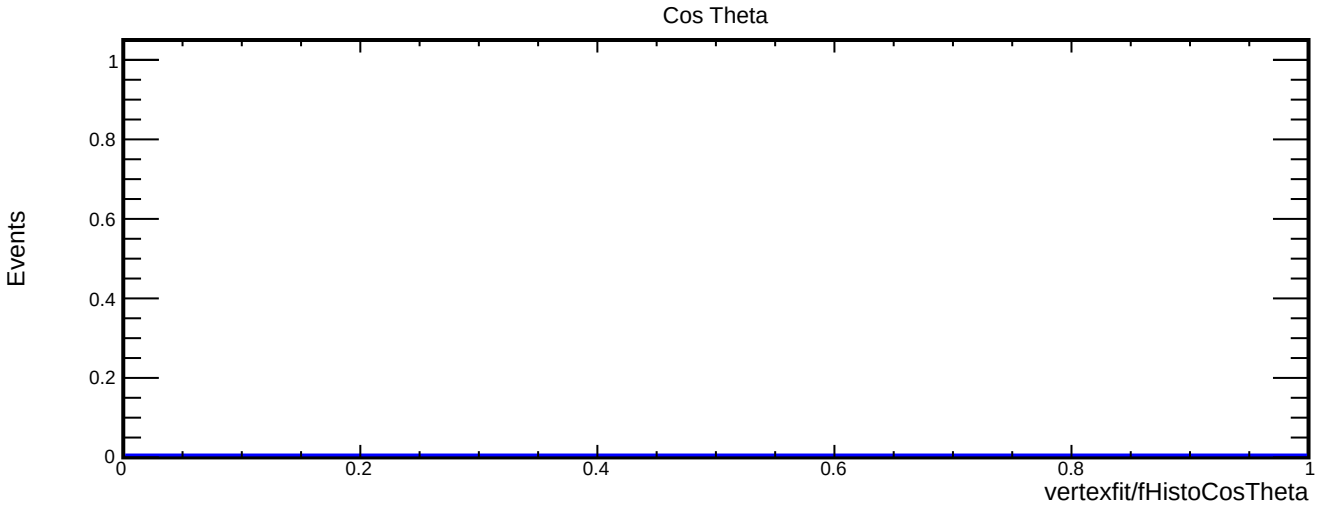

Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
DetsimAna/fFLS_hits

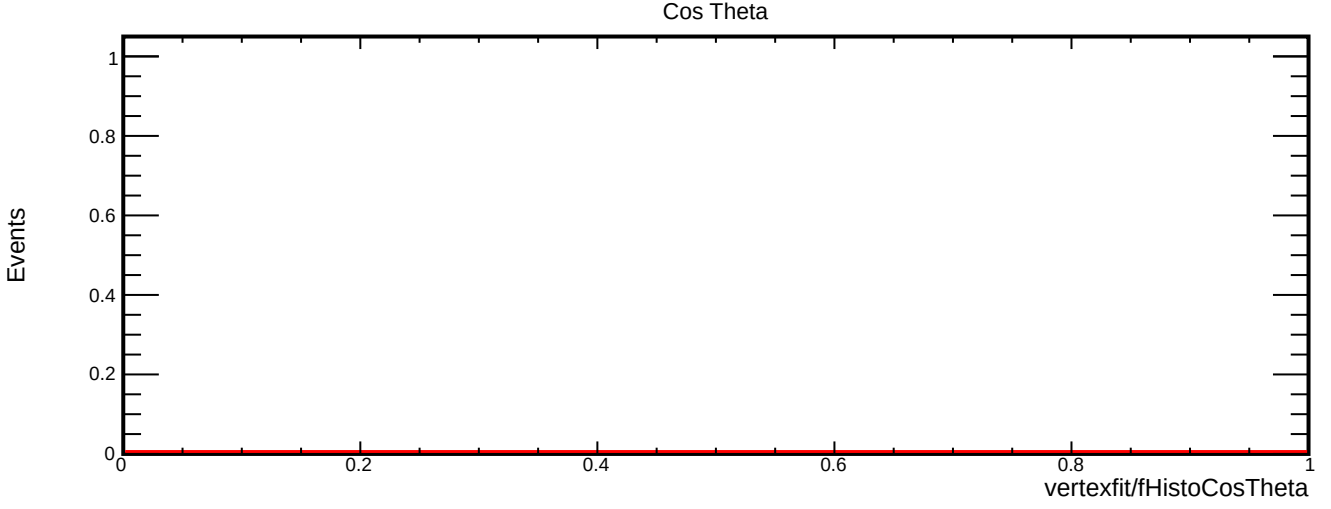

Events
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
DetsimAna/fFLS_EDep

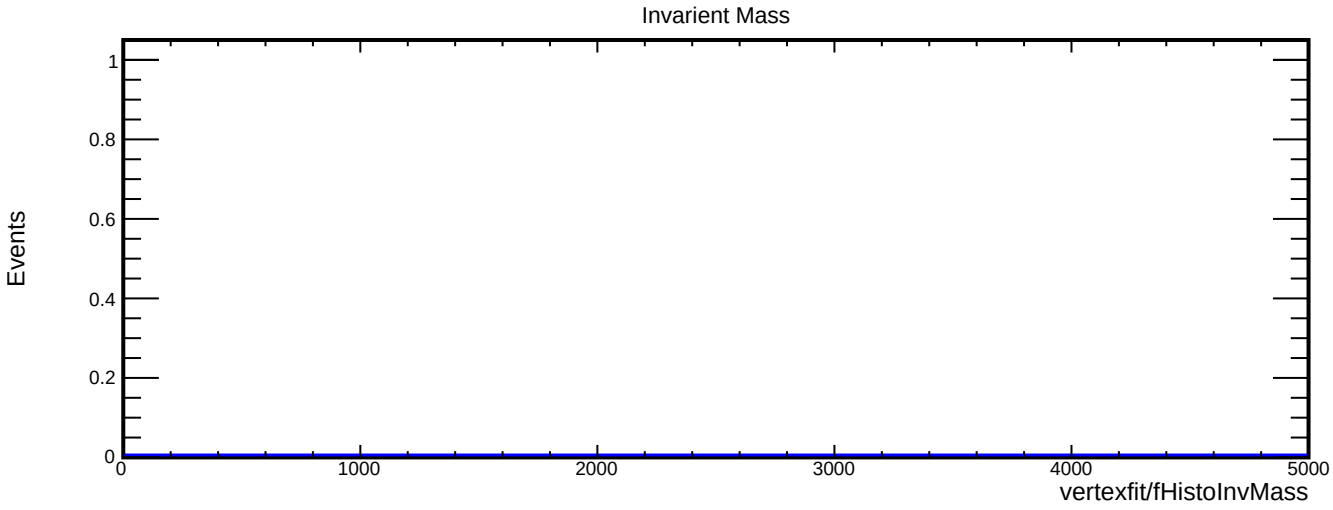

Events
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
DetsimAna/fFLS_EDep

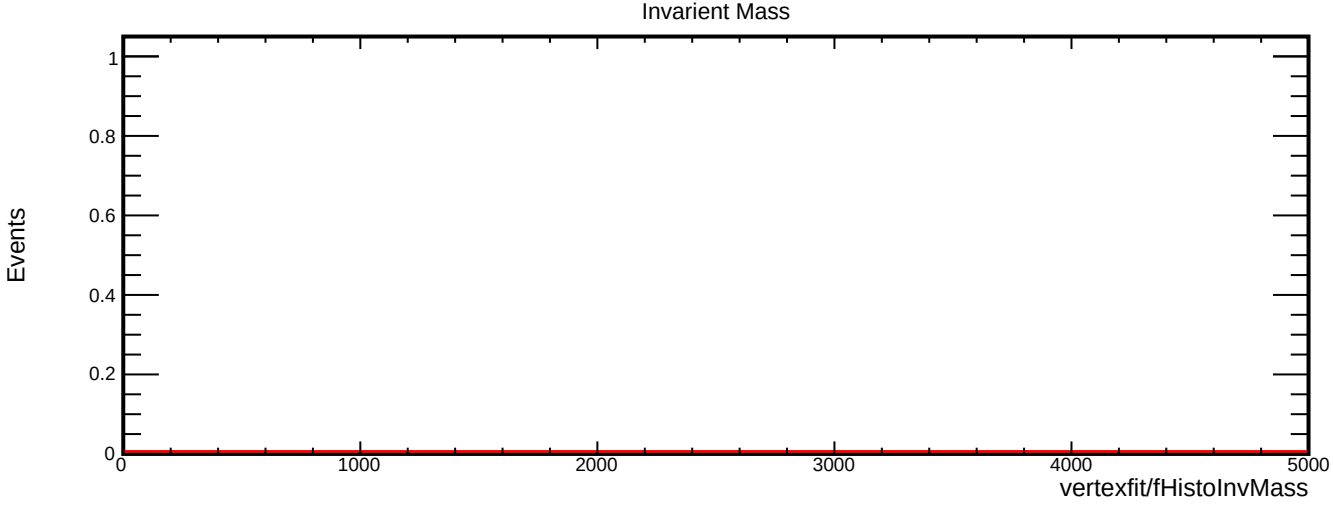

Events
1
0.8
0.6
0.4
0.2
0
0
0.002
0.004
0.006
0.008
0.01
DetsimAna/fFLS_EDep_perhit

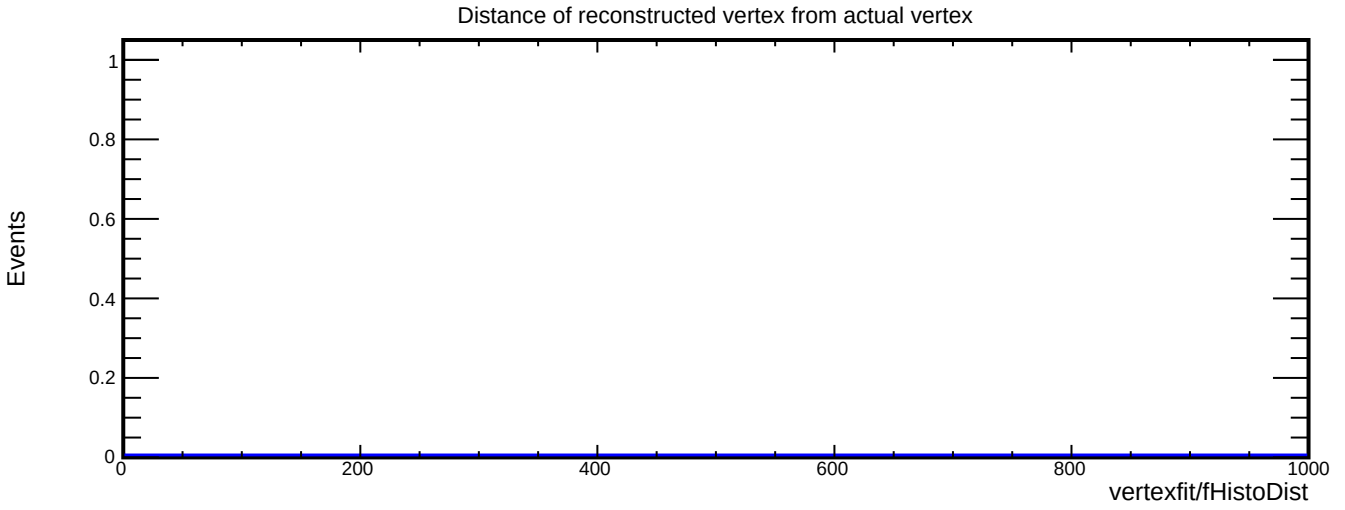

Events
1
0.8
0.6
0.4
0.2
0
0
0.002
0.004
0.006
0.008
0.01
DetsimAna/fFLS_EDep_perhit

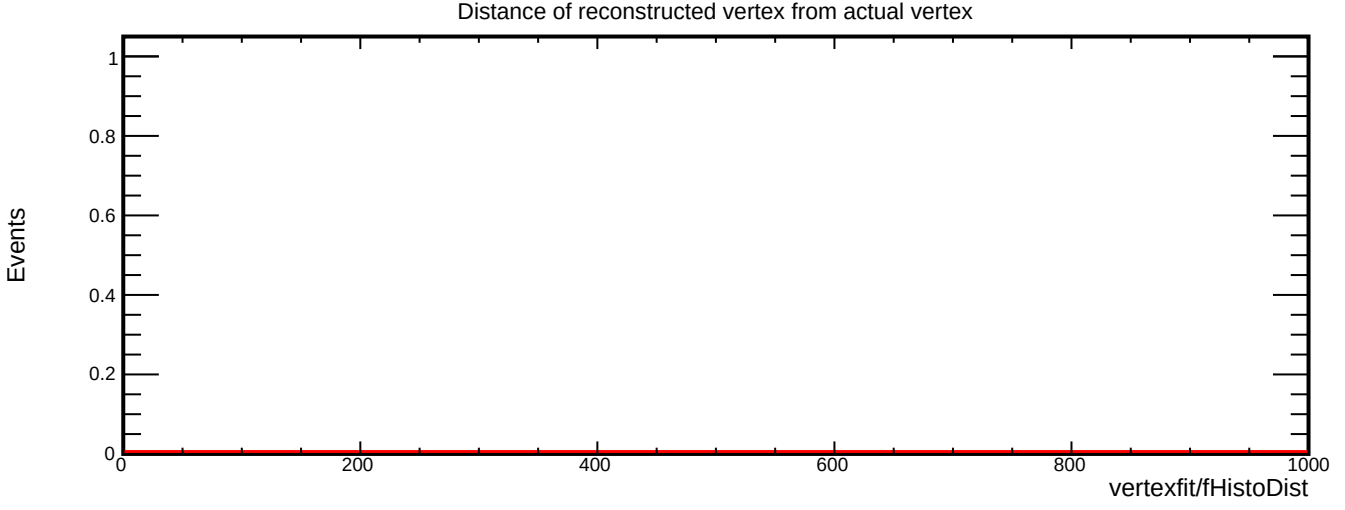

Cos Theta
Events
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
vertexfit/fHistoCosTheta

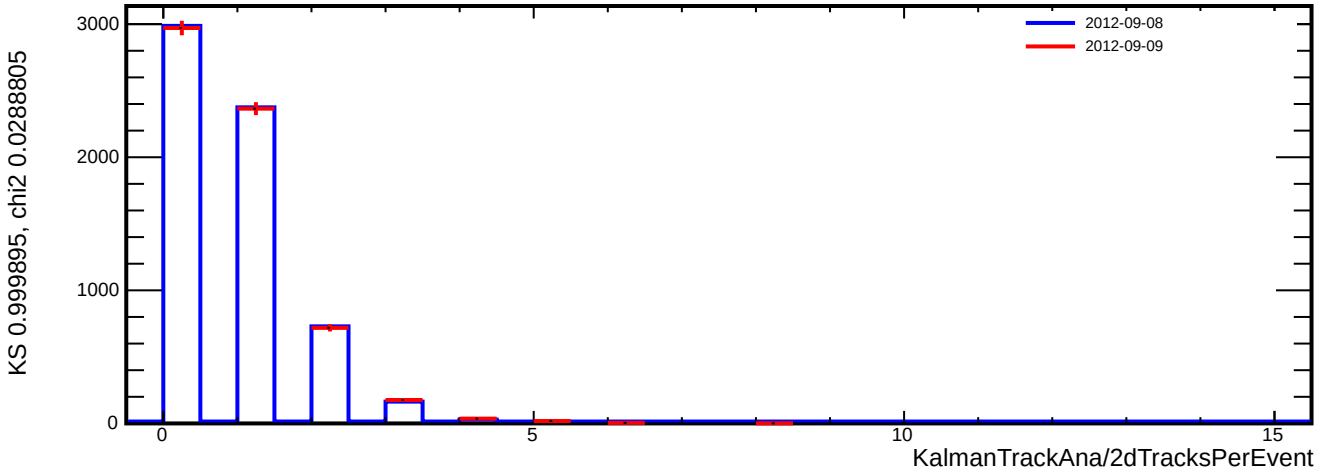

Cos Theta
Events
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
vertexfit/fHistoCosTheta

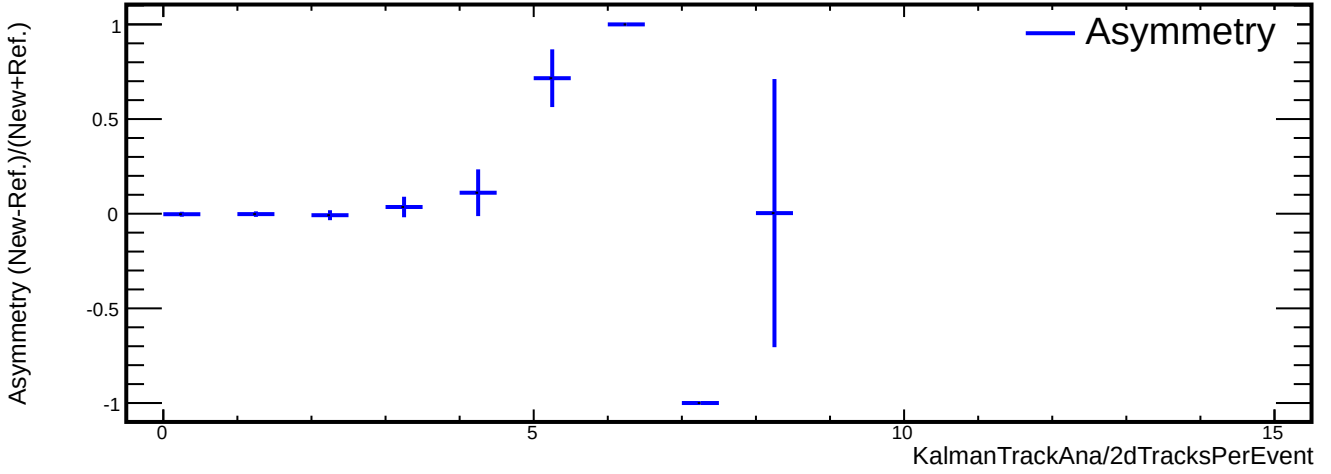

Invarient Mass
Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
5000
vertexfit/fHistoInvMass

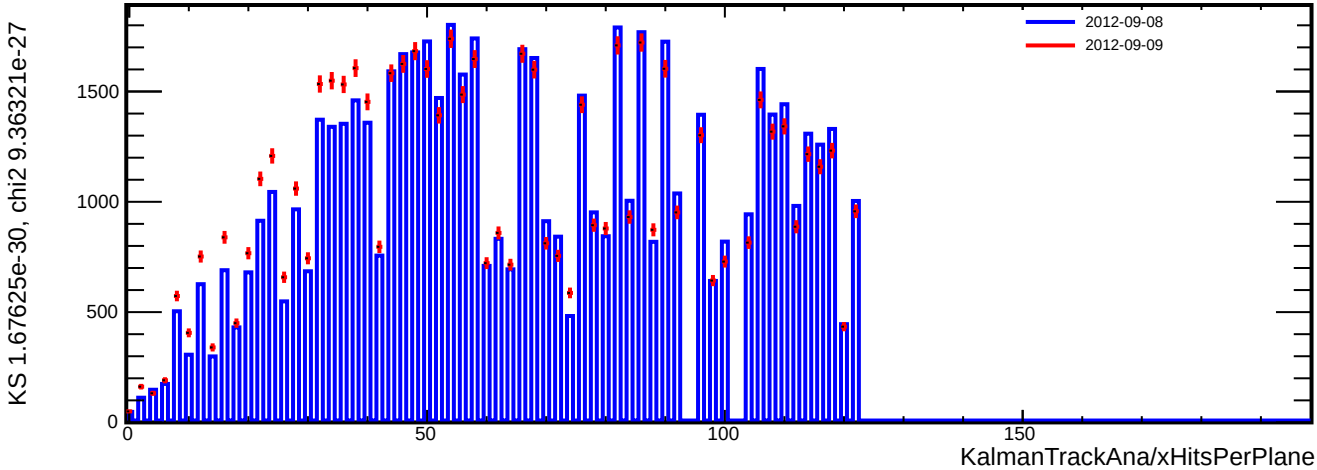

Invarient Mass
Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
5000
vertexfit/fHistoInvMass

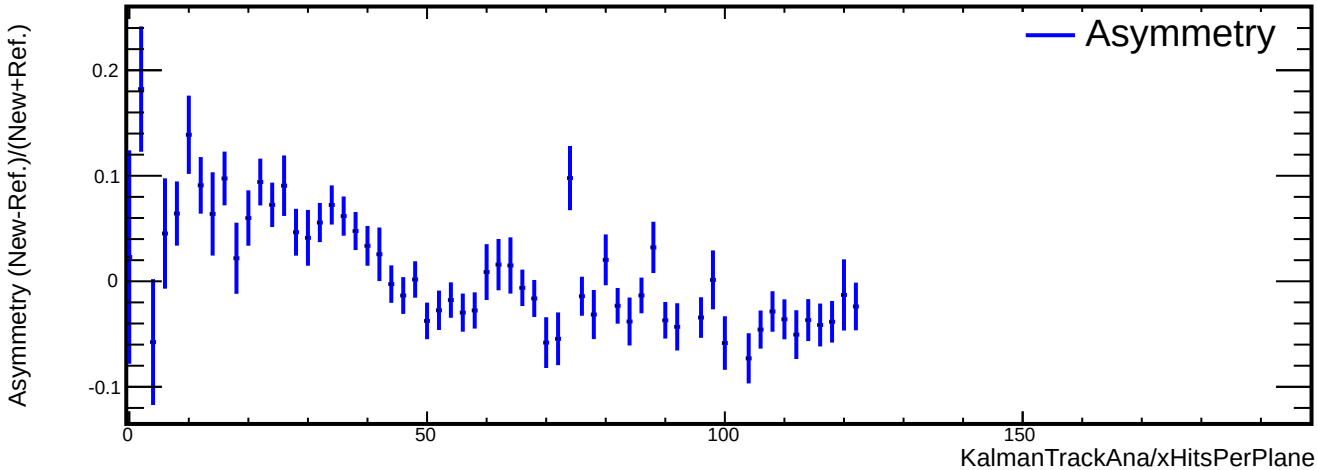

Distance of reconstructed vertex from actual vertex
Events
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
vertexfit/fHistoDist

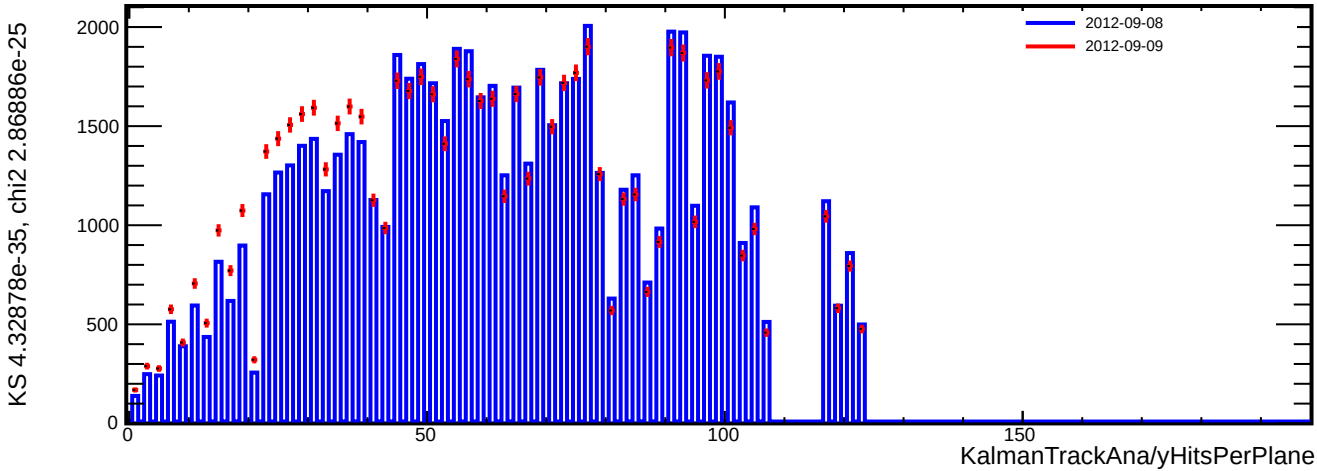

Distance of reconstructed vertex from actual vertex
Events
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
vertexfit/fHistoDist

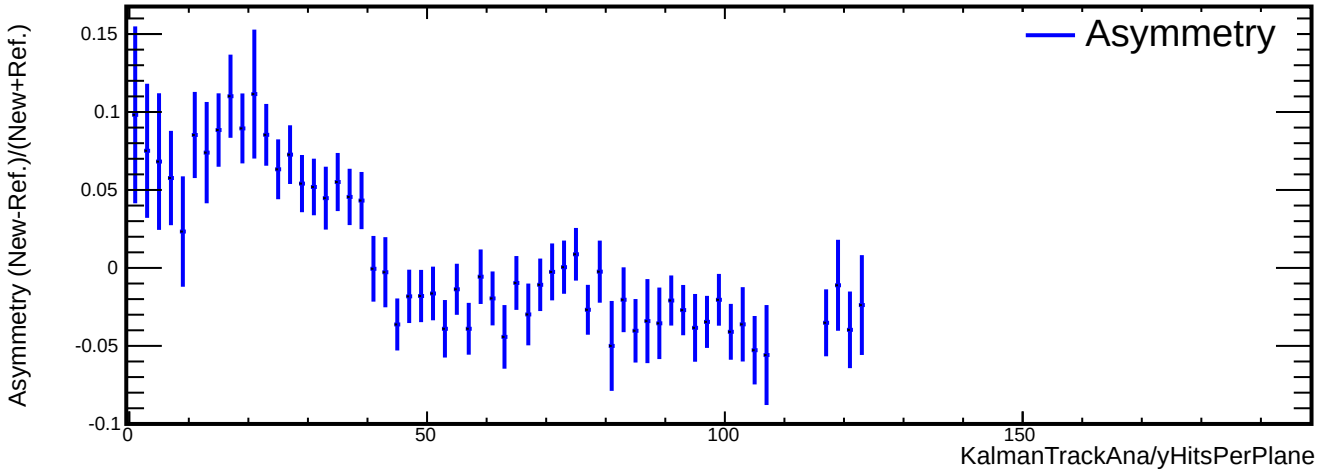

KS 0.999895, chi2 0.0288805
3000
2000
1000
0
0
5
10
15
KalmanTrackAna/2dTracksPerEvent
2012-09-08
2012-09-09

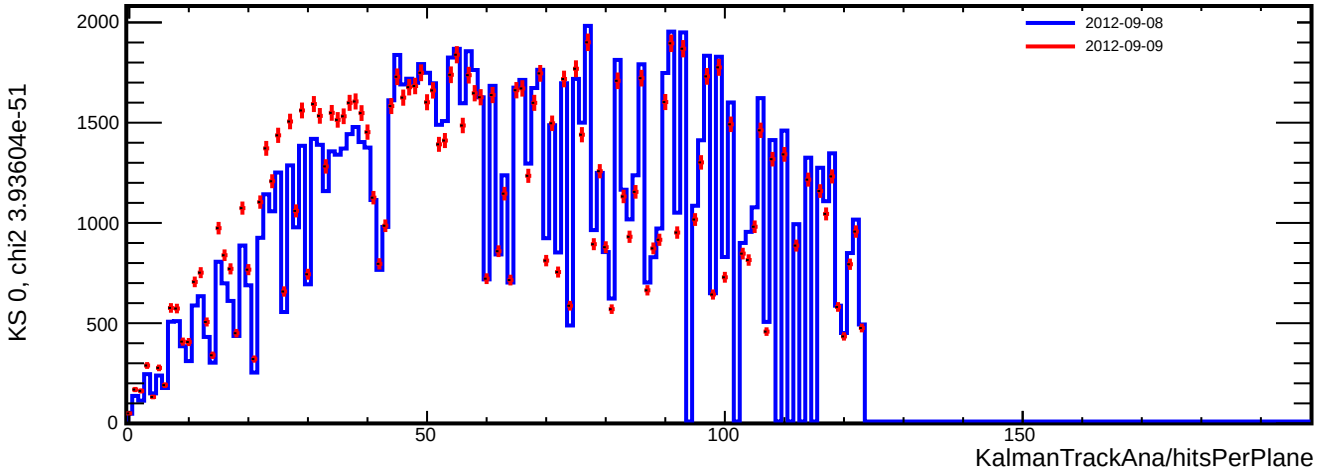

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
5
10
15
KalmanTrackAna/2dTracksPerEvent
Asymmetry

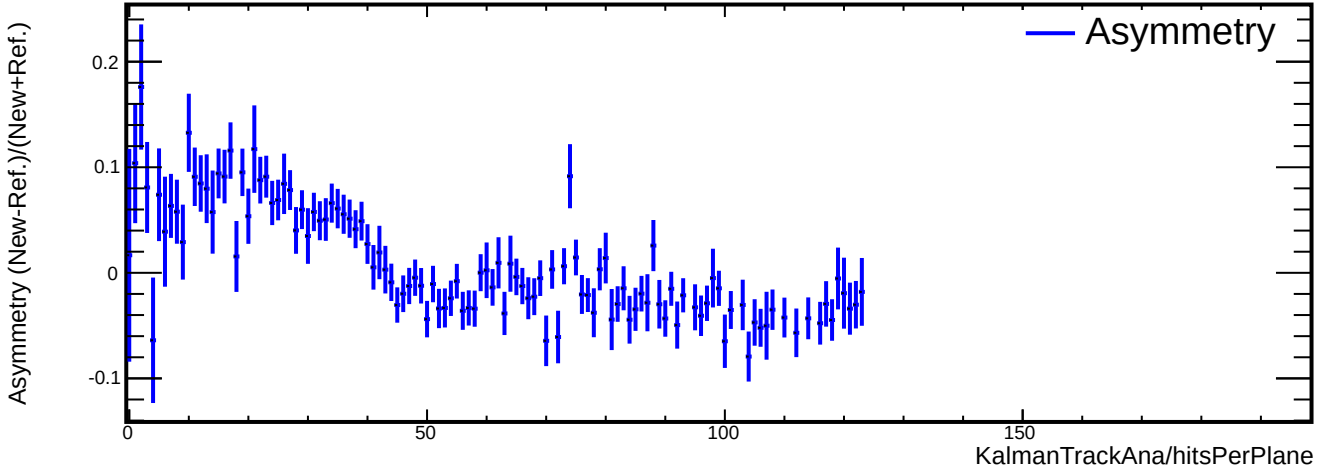

KS 1.67625e-30, chi2 9.36321e-27
2012-09-08
2012-09-09
0
500
1000
1500
0
50
100
150
KalmanTrackAna/xHitsPerPlane

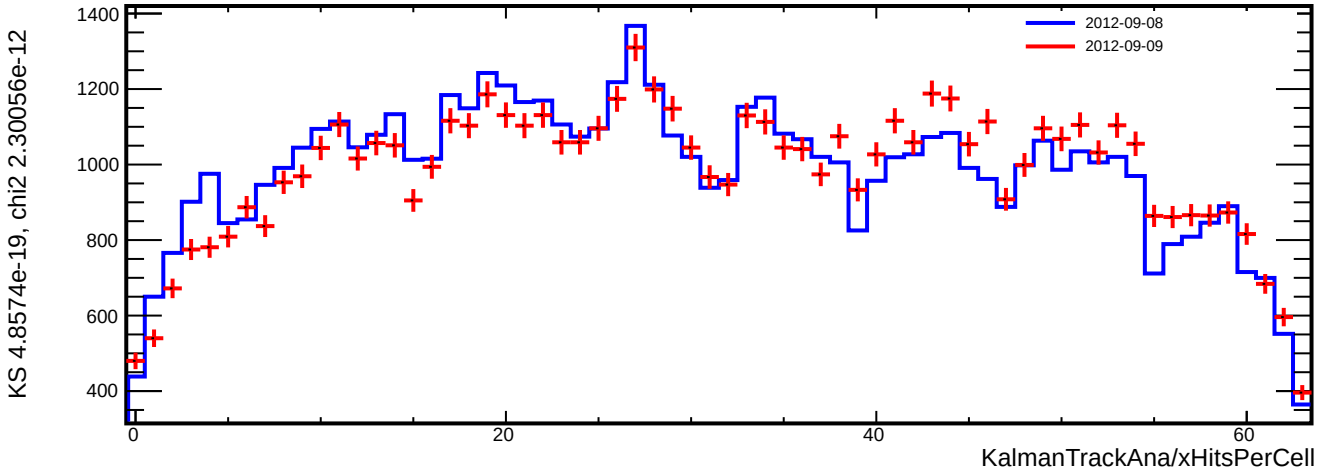

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
-0.1
0
0.1
0.2
0
50
100
150
KalmanTrackAna/xHitsPerPlane

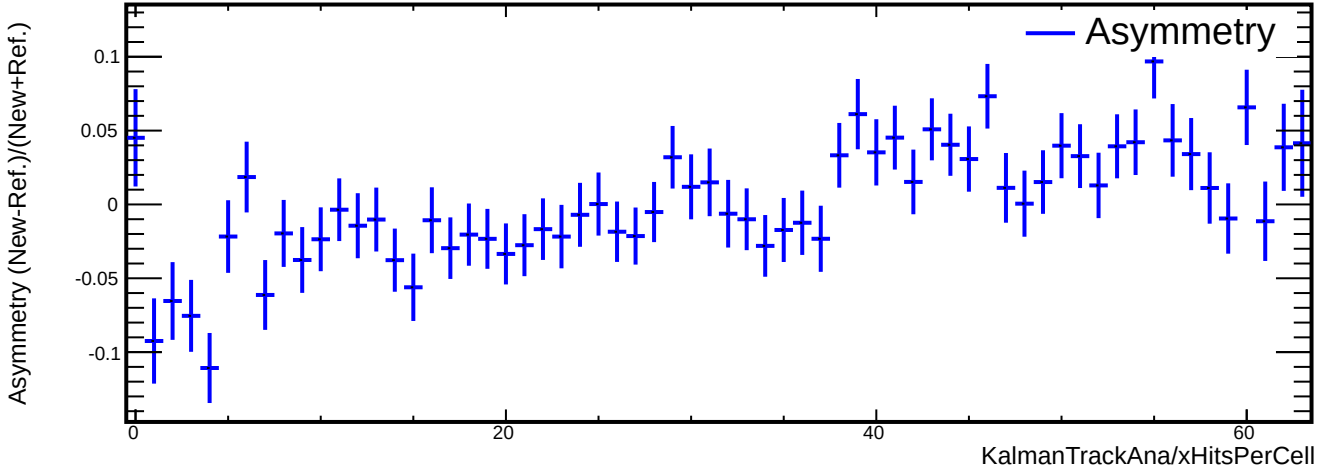

KS 4.32878e-35, chi2 2.86886e-25
2012-09-08
2012-09-09
KalmanTrackAna/yHitsPerPlane

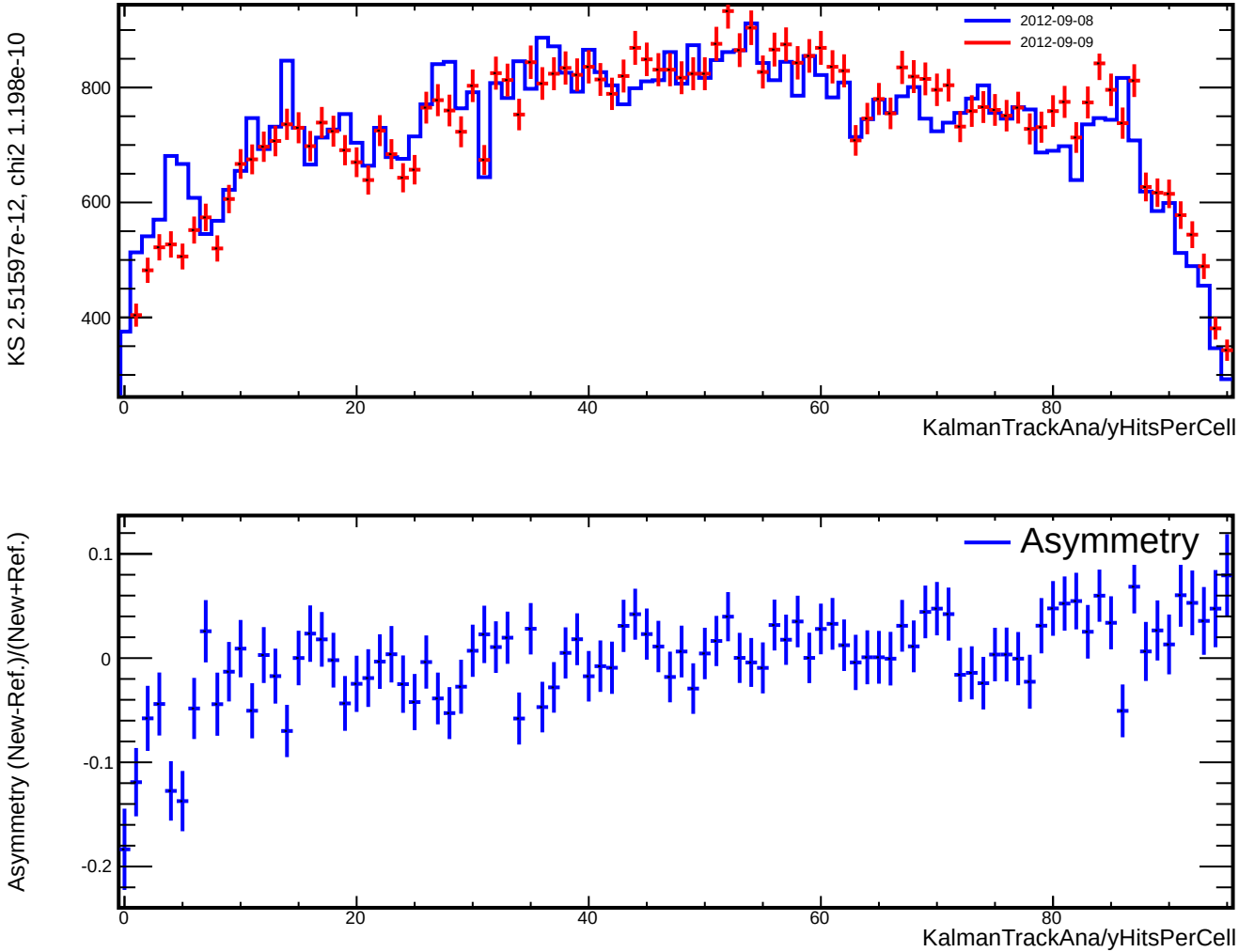

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/yHitsPerPlane

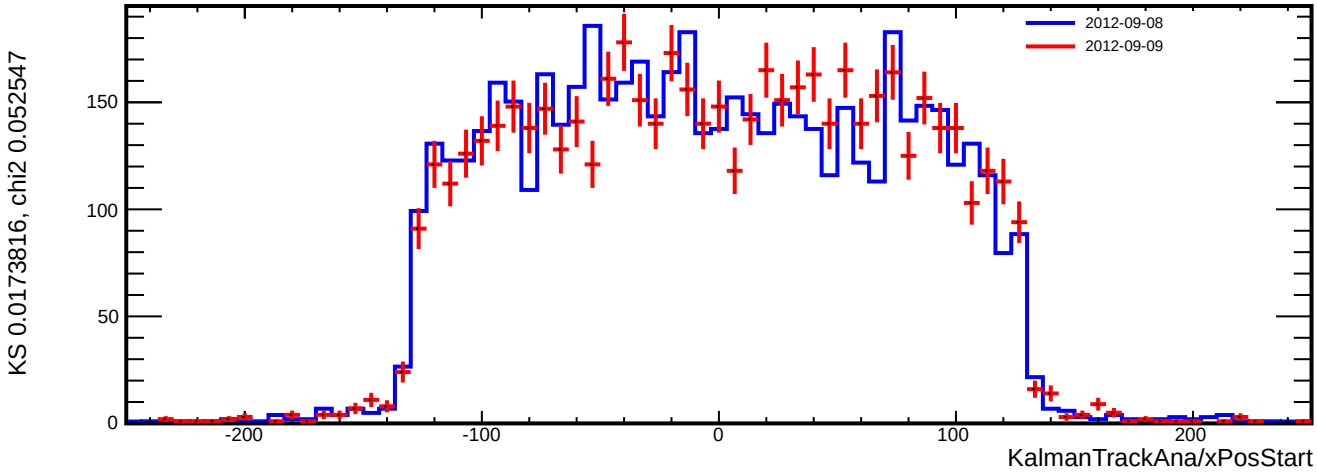

2012-09-08
2012-09-09
KS 0, chi2 3.93604e-51
KalmanTrackAna/hitsPerPlane
0
500
1000
1500
2000
0
50
100
150

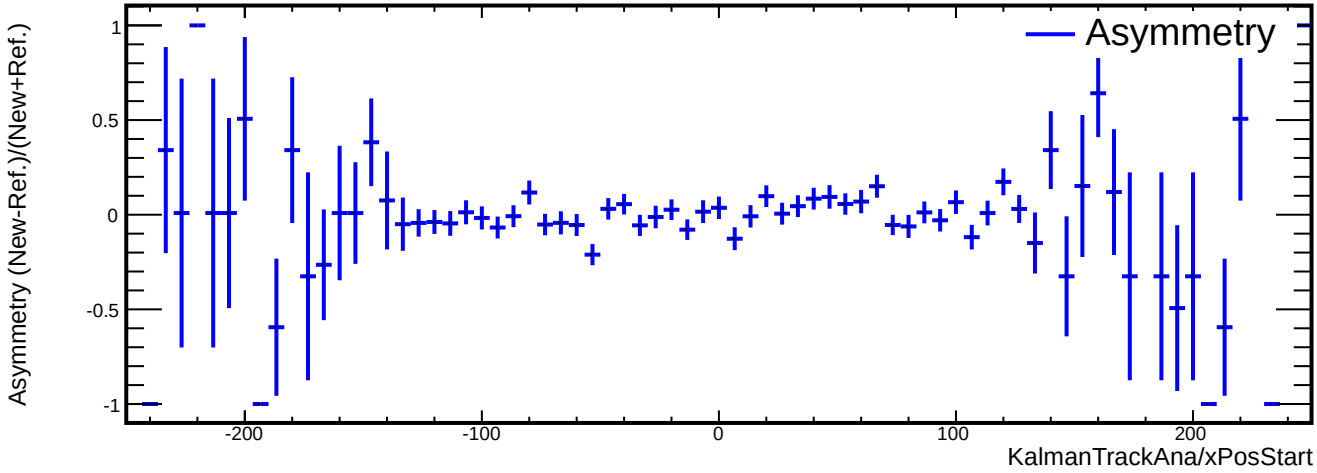

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
KalmanTrackAna/hitsPerPlane
-0.1
0
0.1
0.2
0
50
100
150

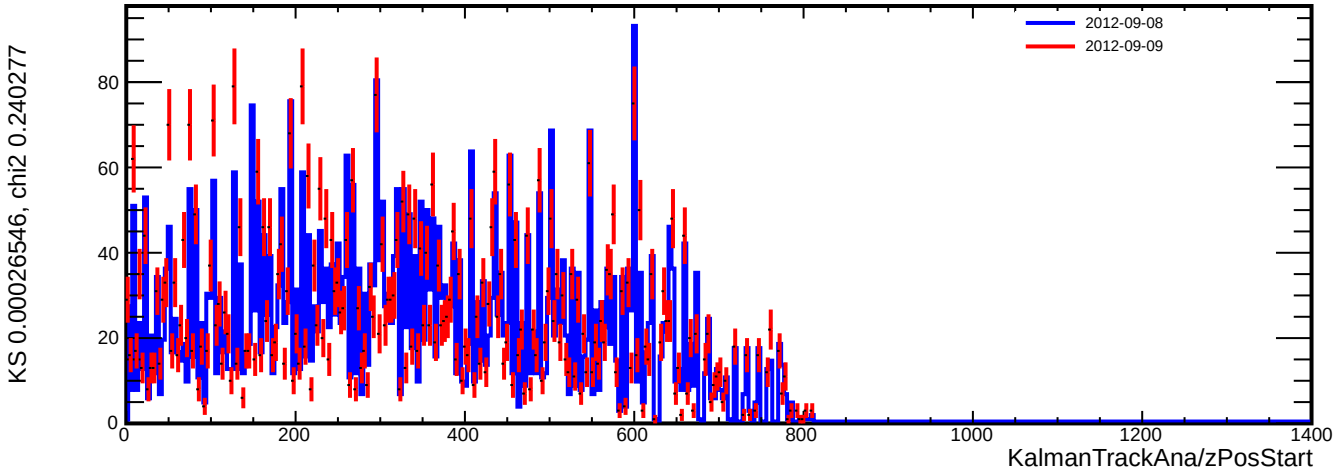

KS 4.8574e-19, chi2 2.30056e-12
1400
1200
1000
800
600
400
0
20
40
60
KalmanTrackAna/xHitsPerCell
2012-09-08
2012-09-09

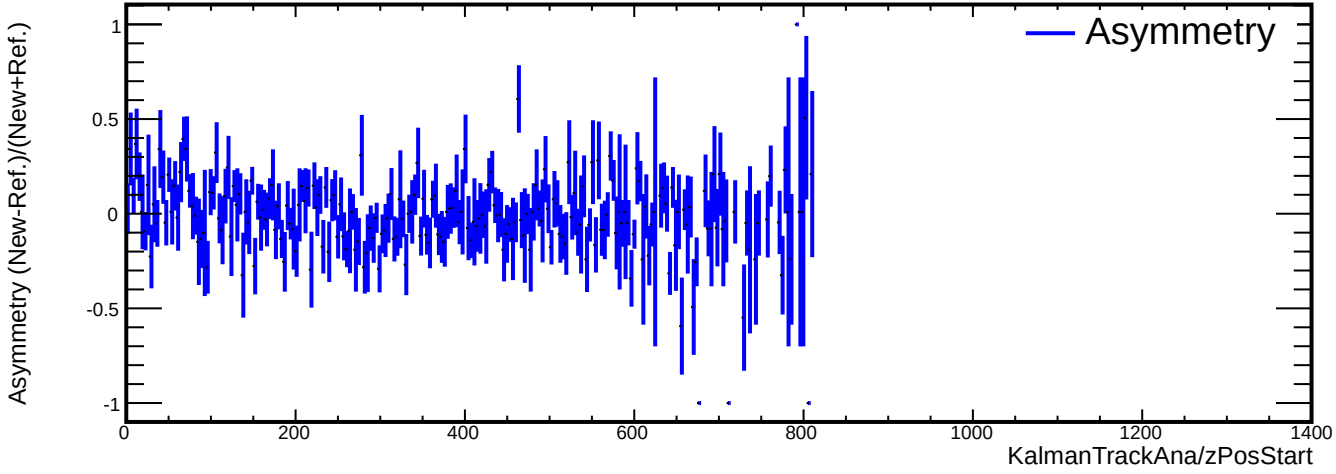

Asymmetry (New-Ref.)/(New+Ref.)
0.1
0.05
0
-0.05
-0.1
0
20
40
60
KalmanTrackAna/xHitsPerCell
Asymmetry

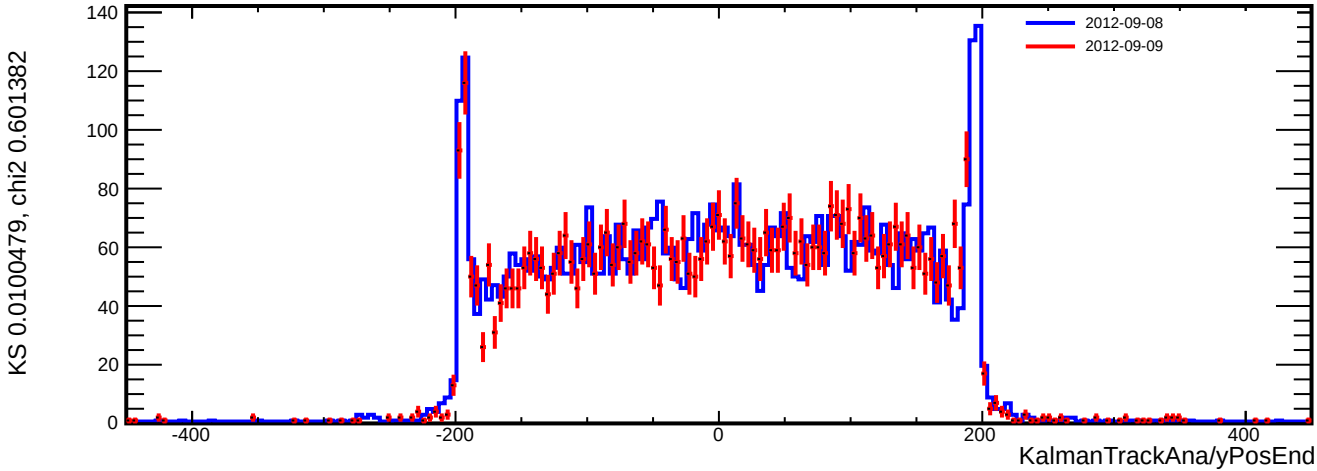

KS 2.51597e-12, chi2 1.198e-10
2012-09-08
2012-09-09
800
600
400
0
20
40
60
80
KalmanTrackAna/yHitsPerCell
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.1
0
-0.1
-0.2
0
20
40
60
80
KalmanTrackAna/yHitsPerCell

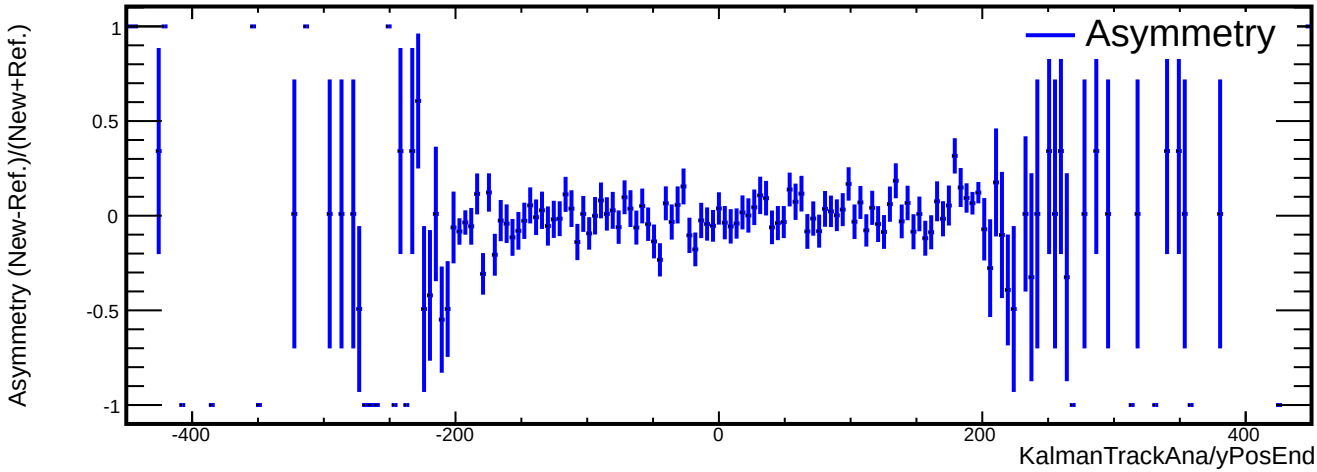

KS 0.0173816, chi2 0.052547
2012-09-08
2012-09-09
150
100
50
0
-200
-100
0
100
200
KalmanTrackAna/xPosStart

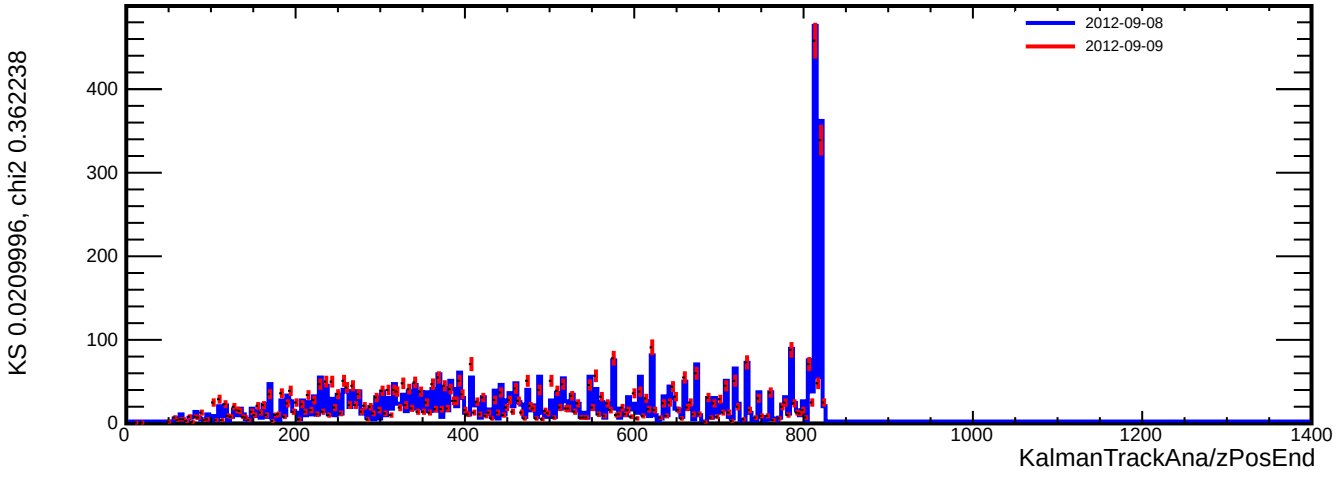

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
KalmanTrackAna/xPosStart

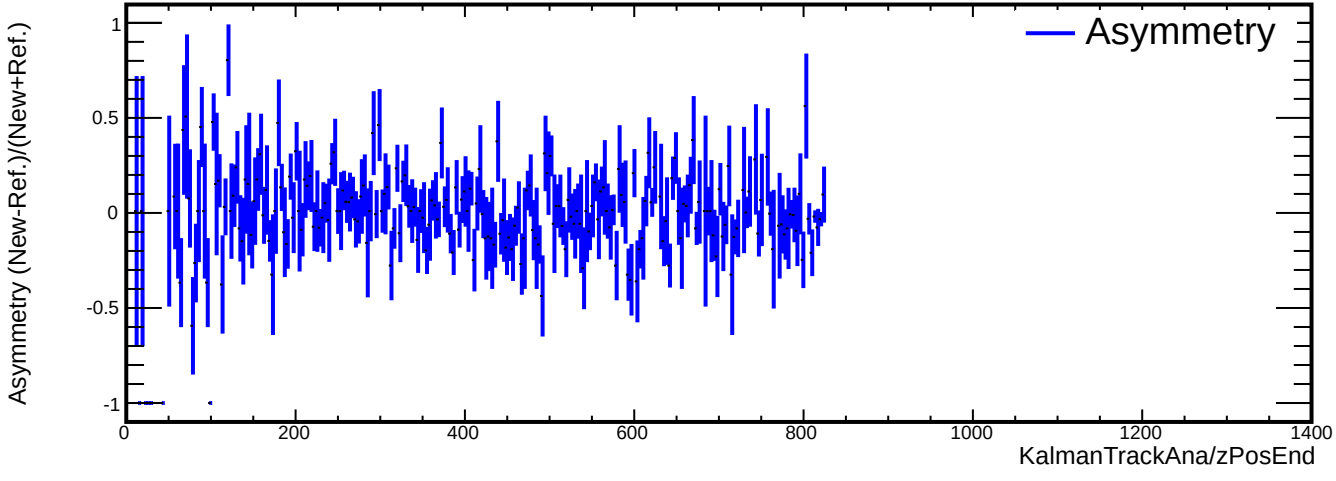

KS 0.00026546, chi2 0.240277
2012-09-08
2012-09-09
0
20
40
60
80
0
200
400
600
800
1000
1200
1400
KalmanTrackAna/zPosStart

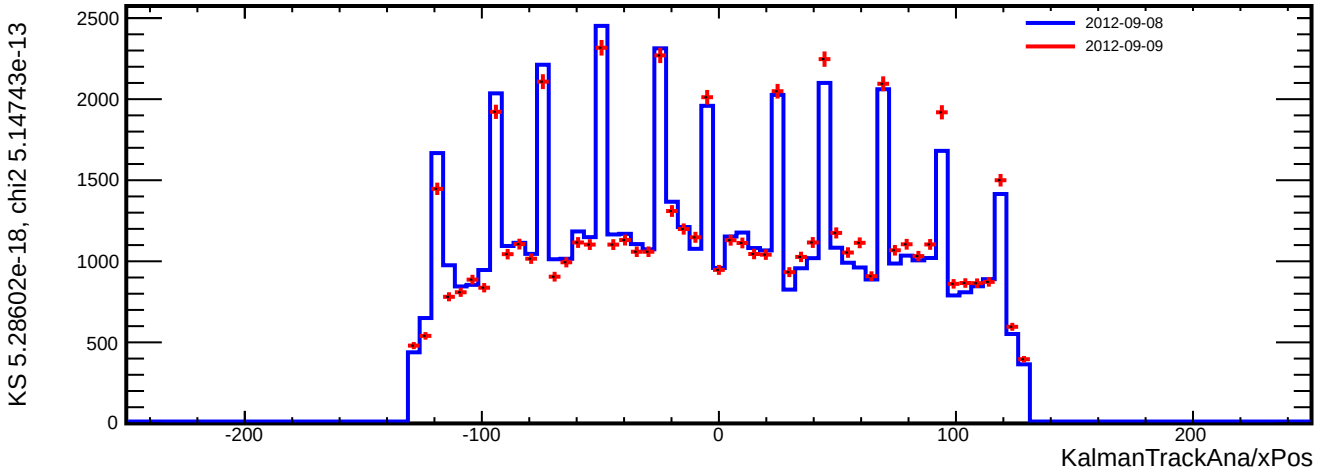

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
200
400
600
800
1000
1200
1400
KalmanTrackAna/zPosStart

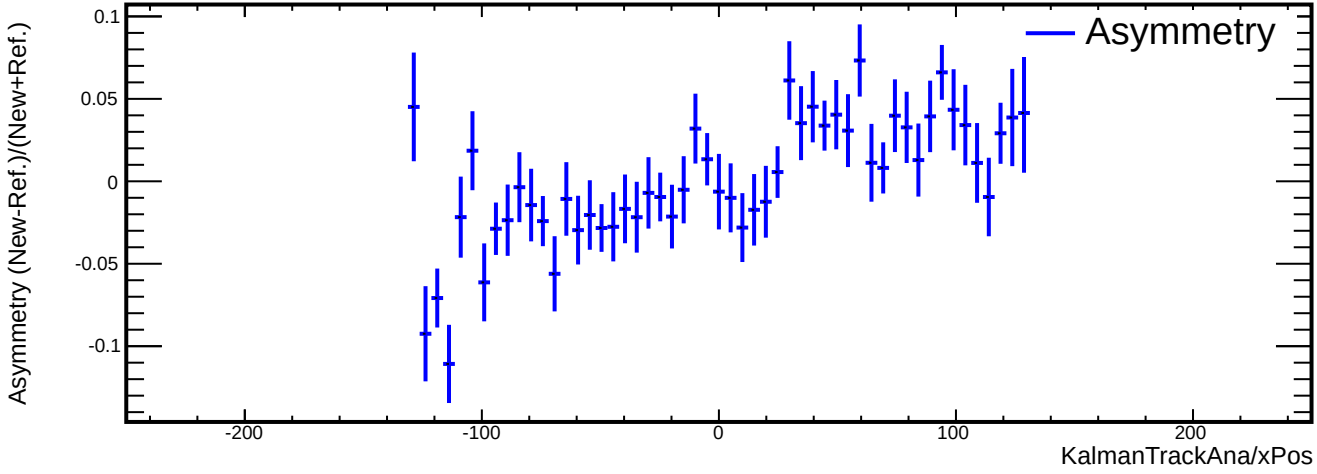

KS 0.0100479, chi2 0.601382
2012-09-08
2012-09-09
KalmanTrackAna/yPosEnd

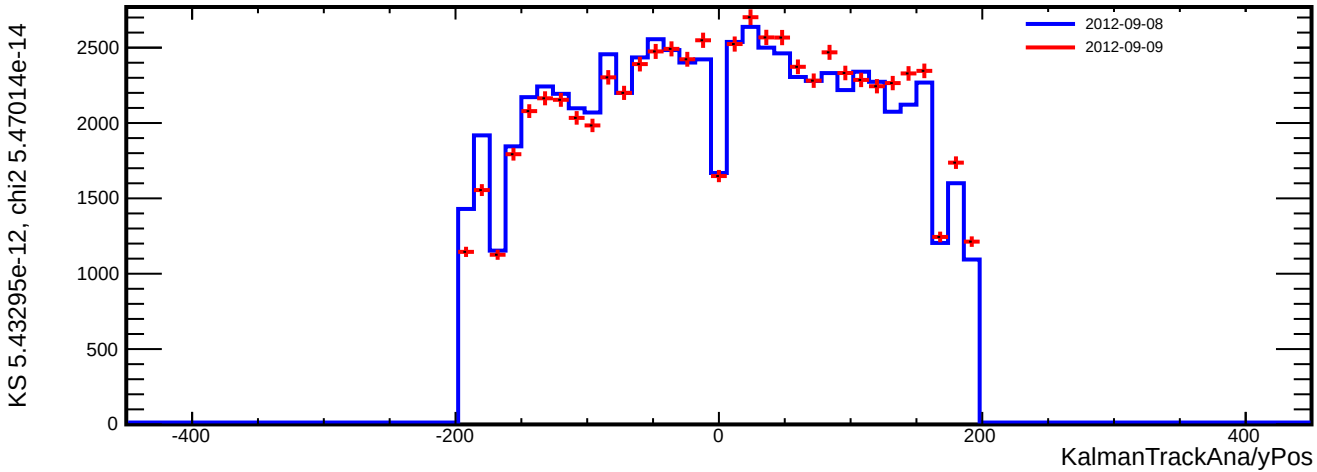

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/yPosEnd

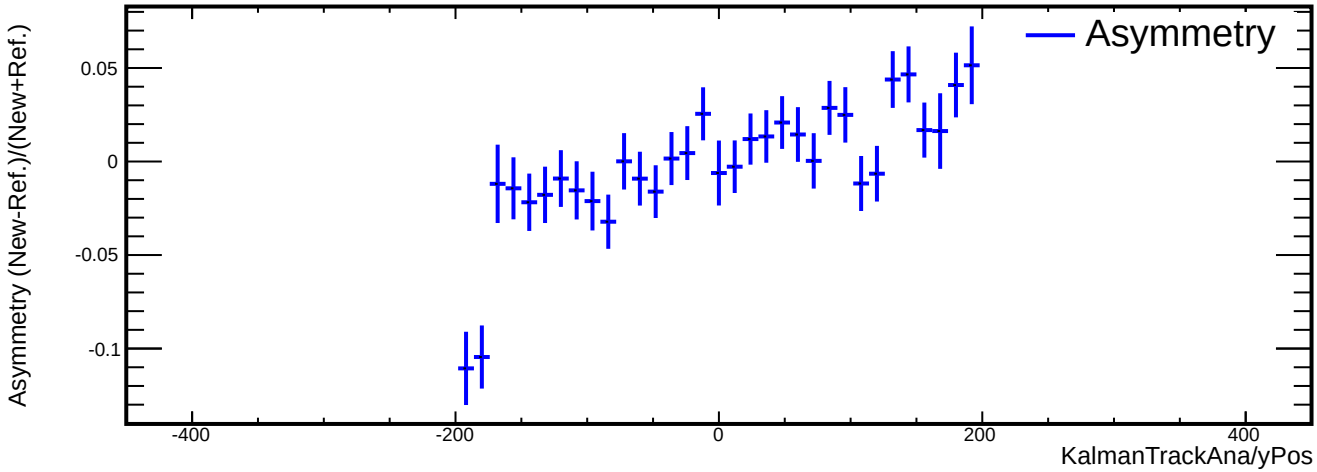

KS 0.0209996, chi2 0.362238
2012-09-08
2012-09-09
0
100
200
300
400
0
200
400
600
800
1000
1200
1400
KalmanTrackAna/zPosEnd

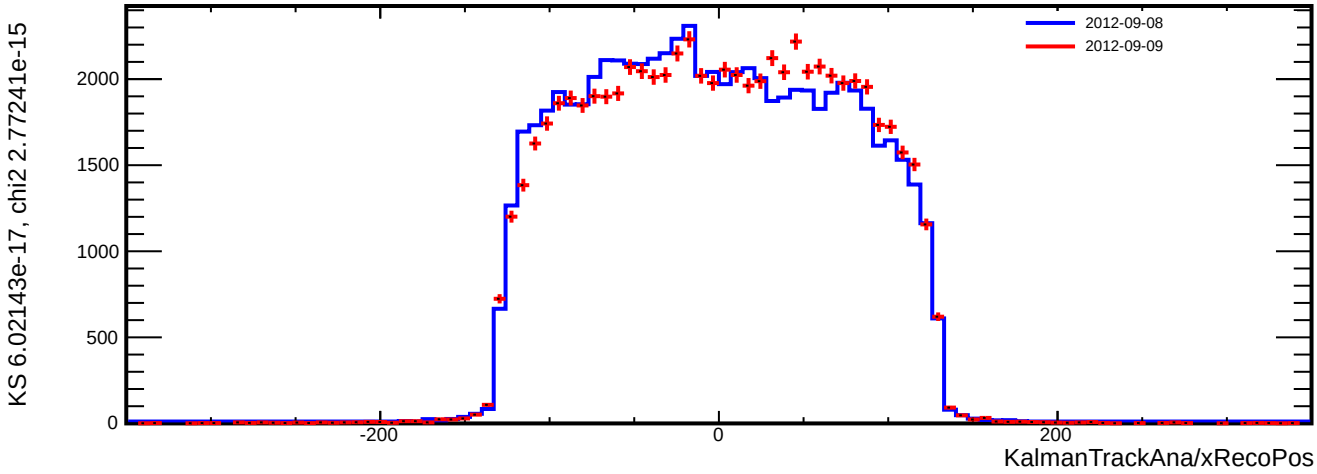

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
200
400
600
800
1000
1200
1400
KalmanTrackAna/zPosEnd

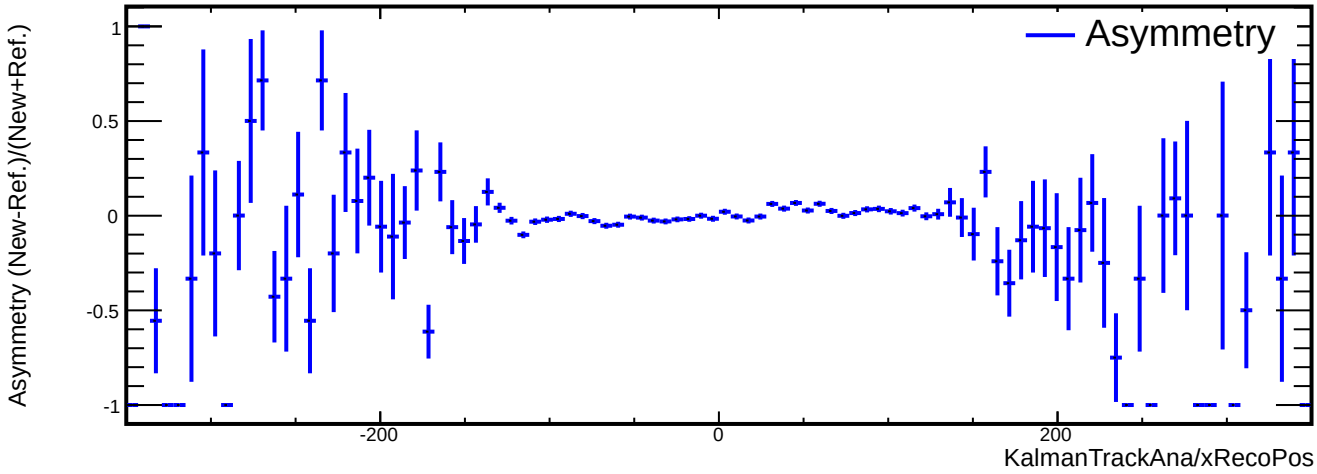

KS 5.28602e-18, chi2 5.14743e-13
2012-09-08
2012-09-09
KalmanTrackAna/xPos

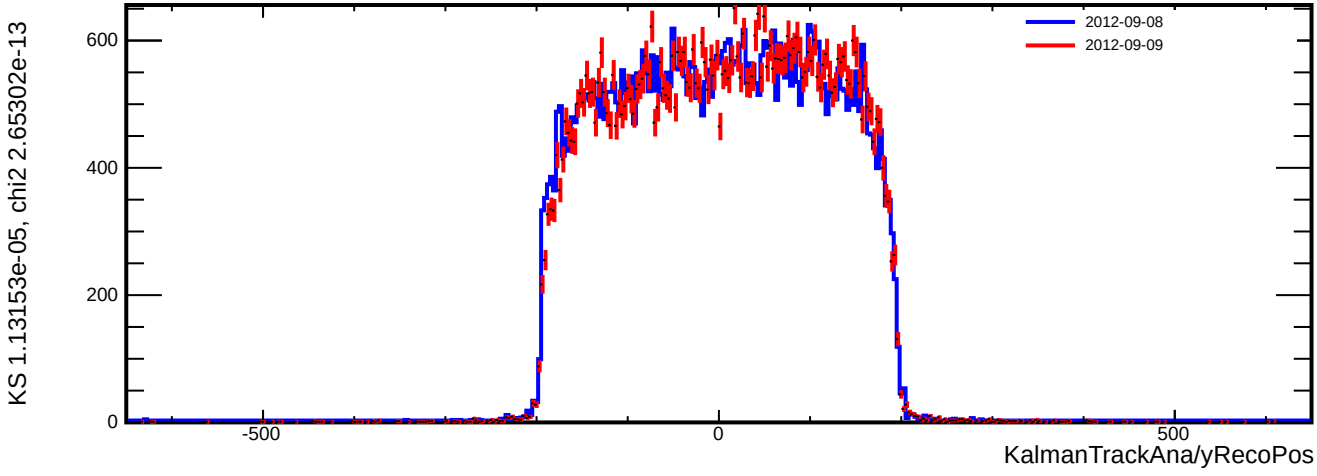

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/xPos

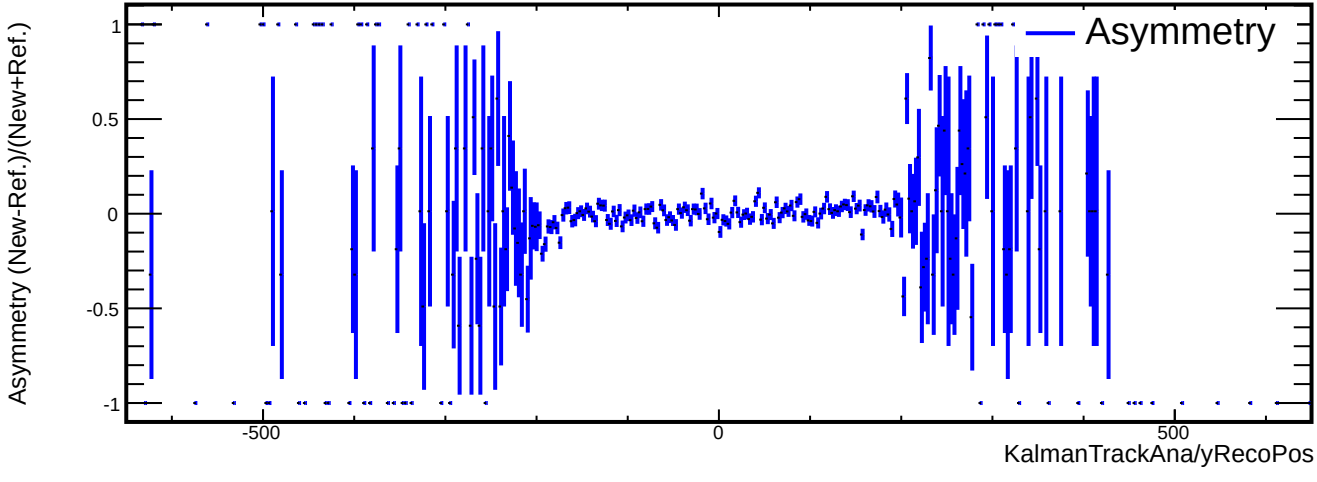

KS 5.43295e-12, chi2 5.47014e-14
2012-09-08
2012-09-09
2500
2000
1500
1000
500
0
-400
-200
0
200
400
KalmanTrackAna/yPos

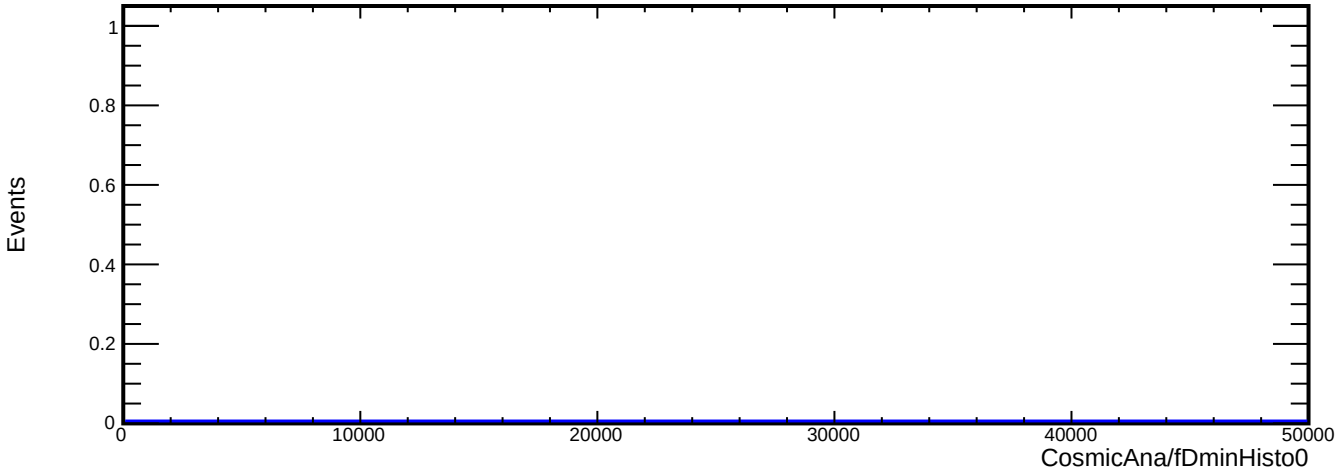

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.05
0
-0.05
-0.1
-400
-200
0
200
400
KalmanTrackAna/yPos

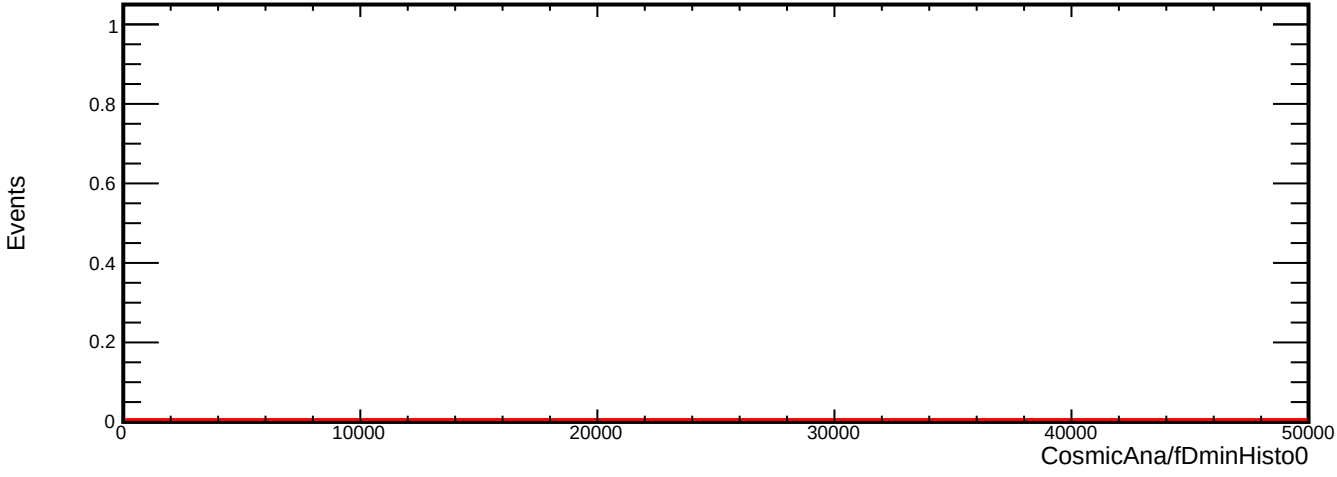

KS 6.02143e-17, chi2 2.77241e-15
2012-09-08
2012-09-09
2000
1500
1000
500
0
-200
0
200
KalmanTrackAna/xRecoPos

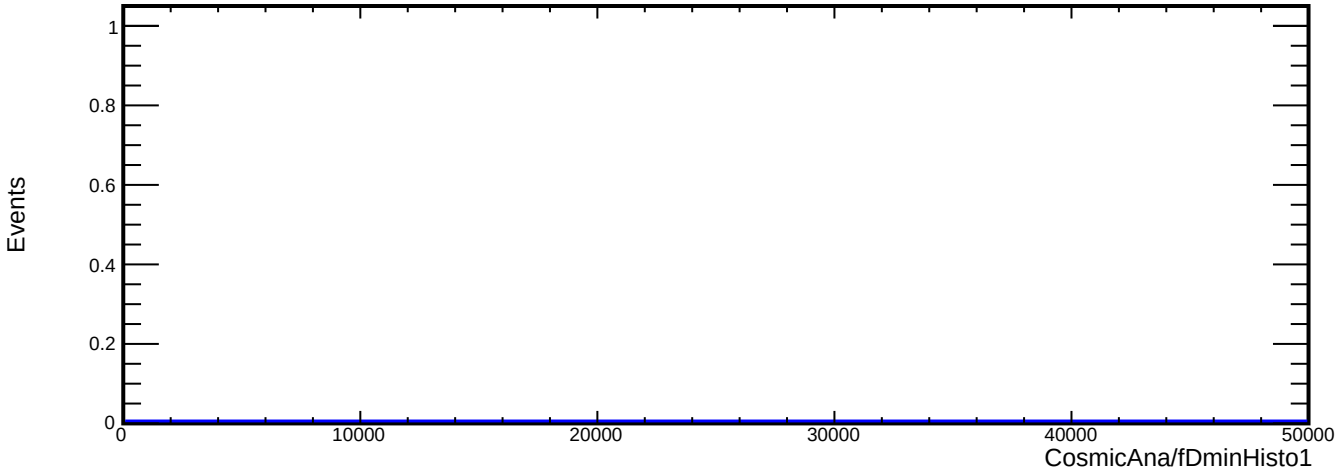

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
0
200
KalmanTrackAna/xRecoPos

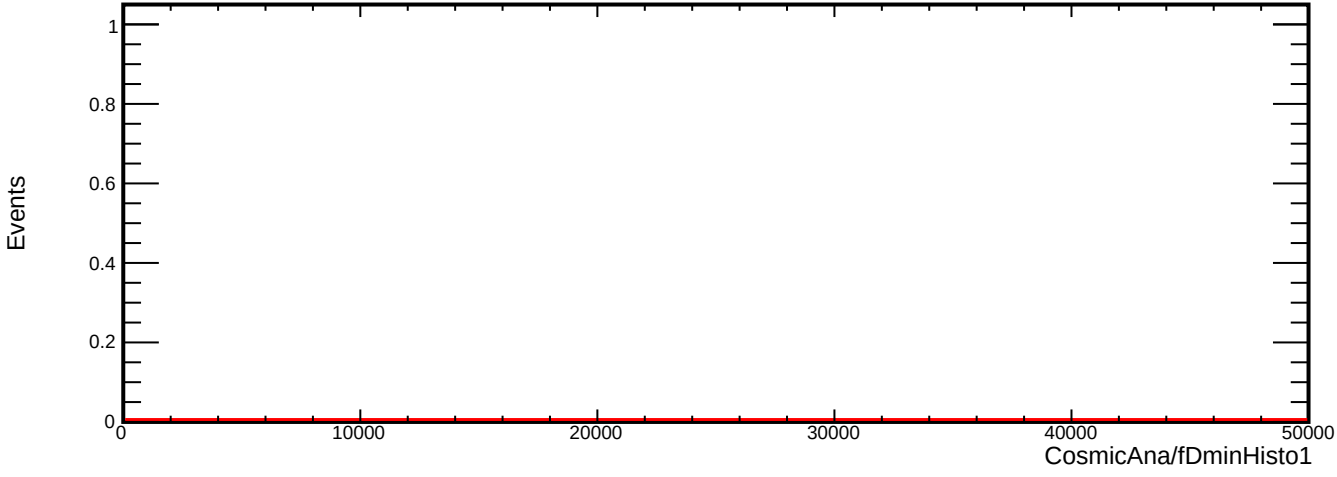

KS 1.13153e-05, chi2 2.65302e-13
600
400
200
0
-500
0
500
KalmanTrackAna/yRecoPos
2012-09-08
2012-09-09

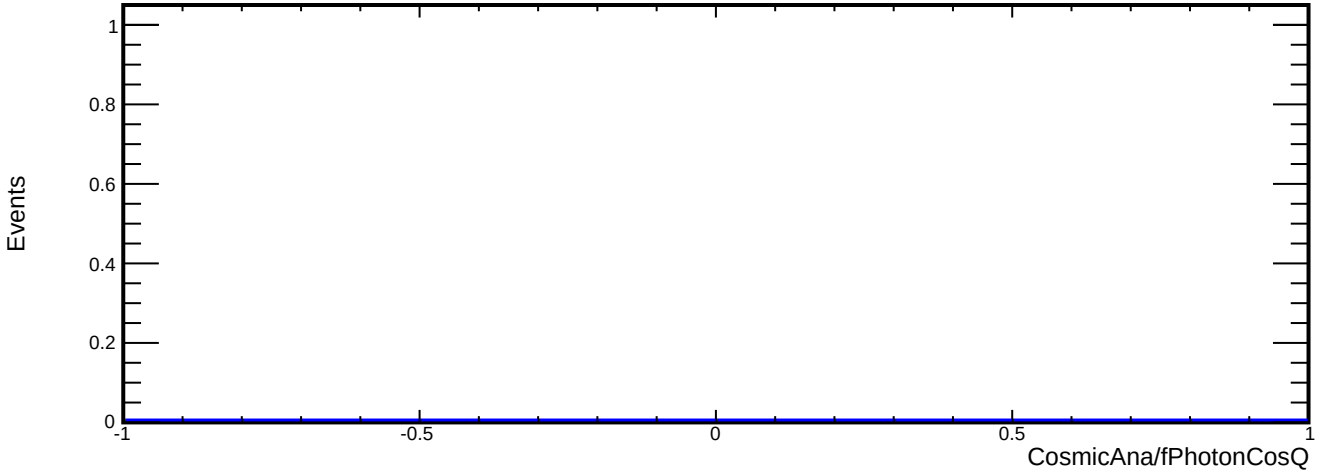

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-500
0
500
KalmanTrackAna/yRecoPos
Asymmetry

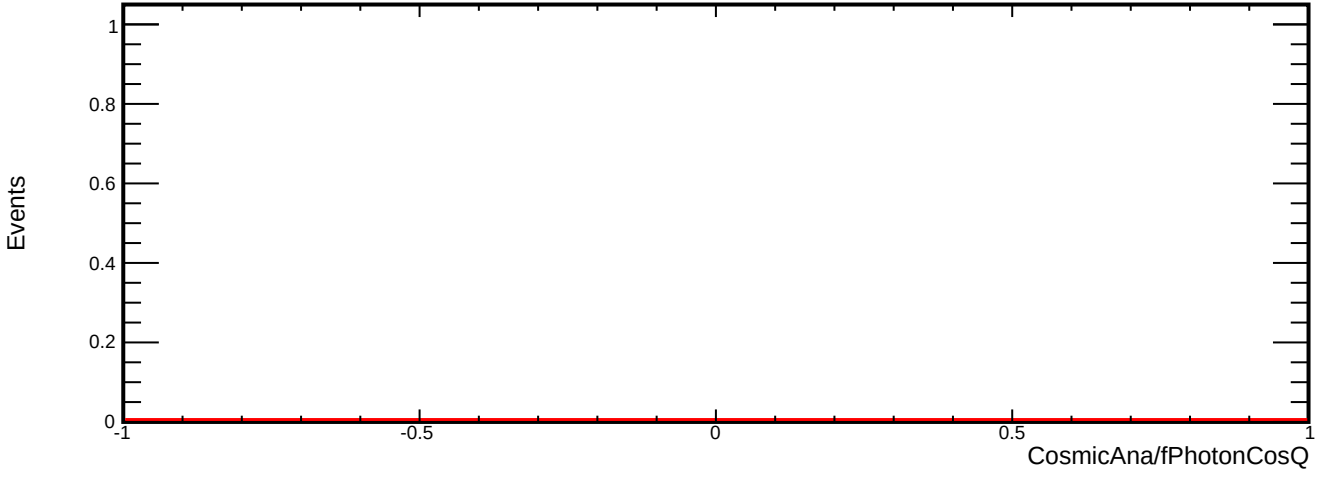

Events
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto0

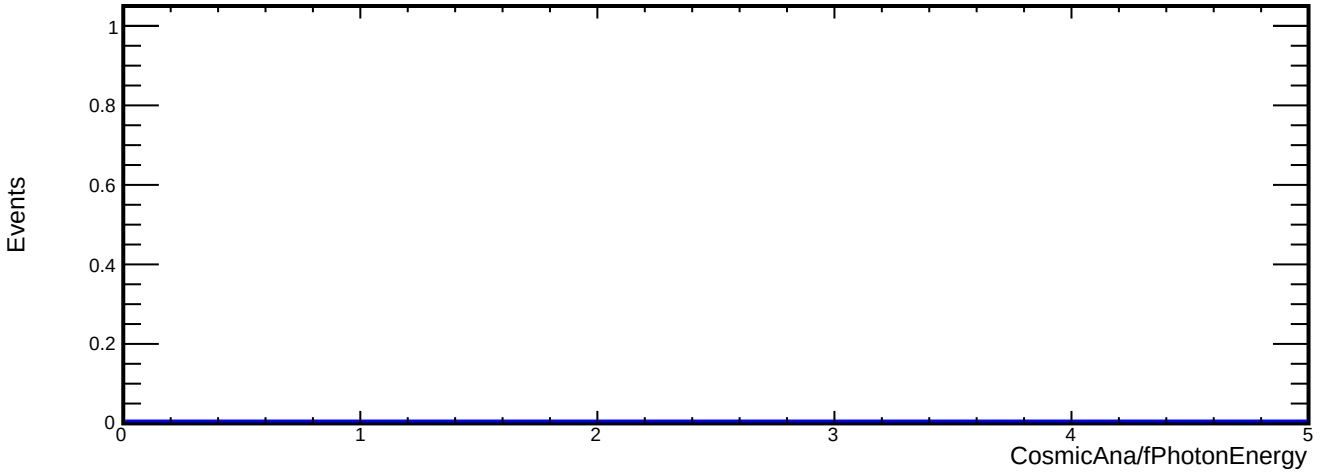

Events
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto0

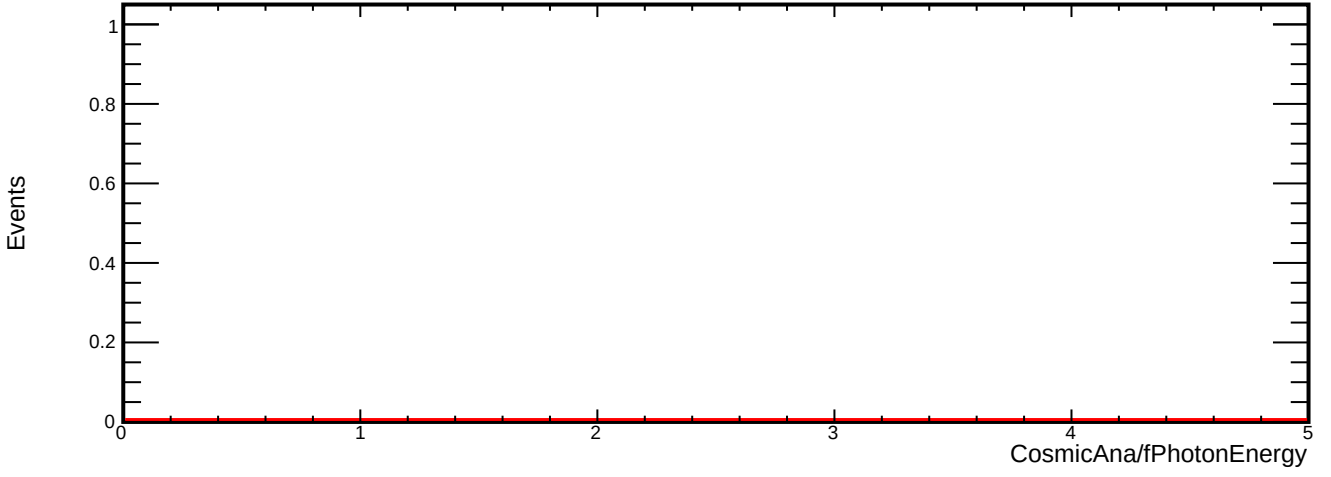

Events
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto1

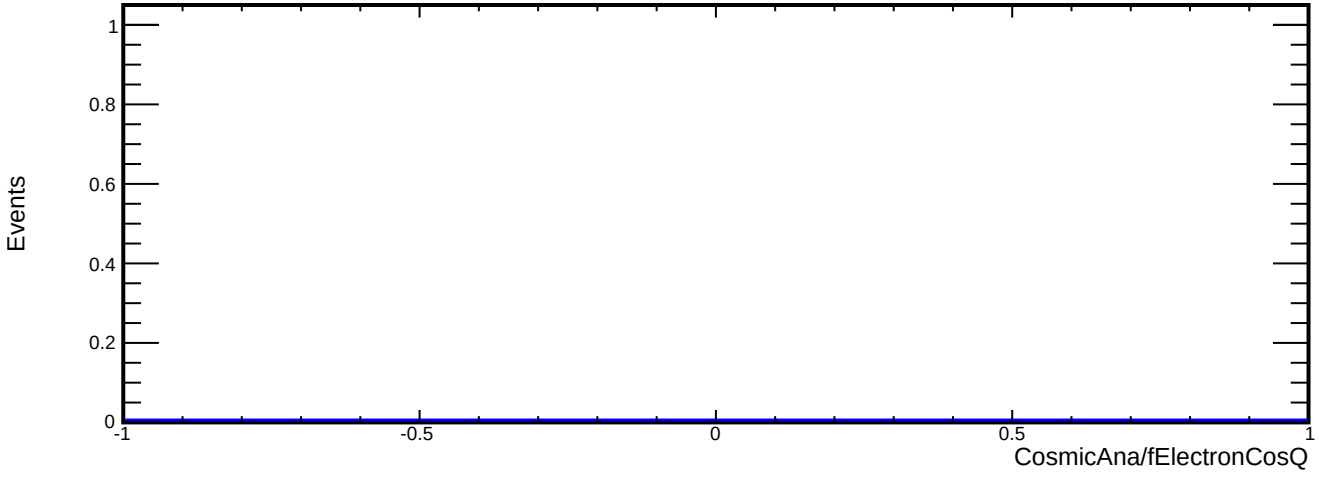

Events
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto1

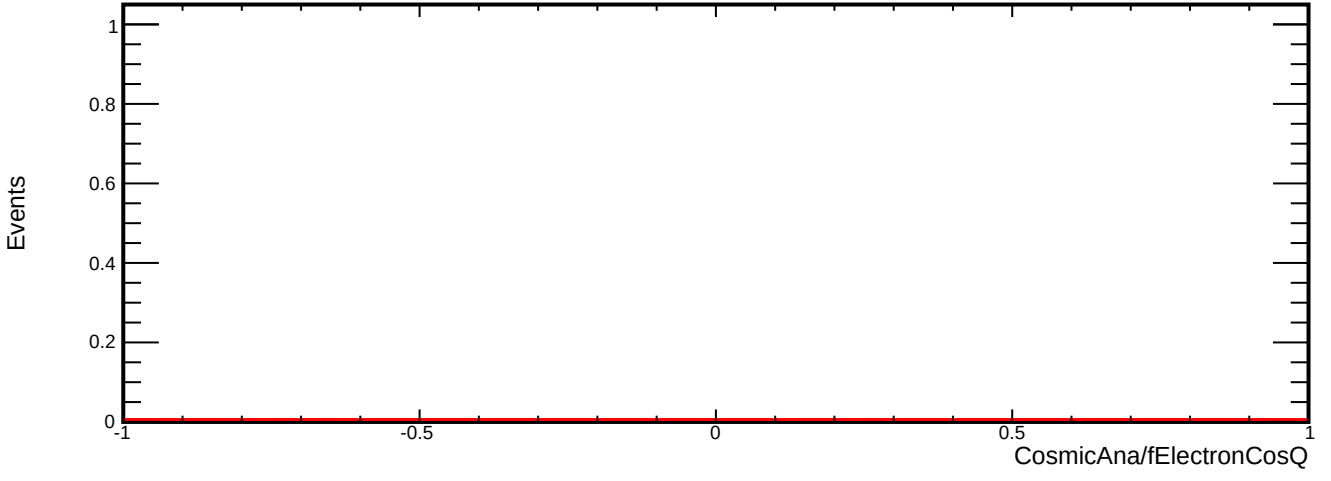

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ

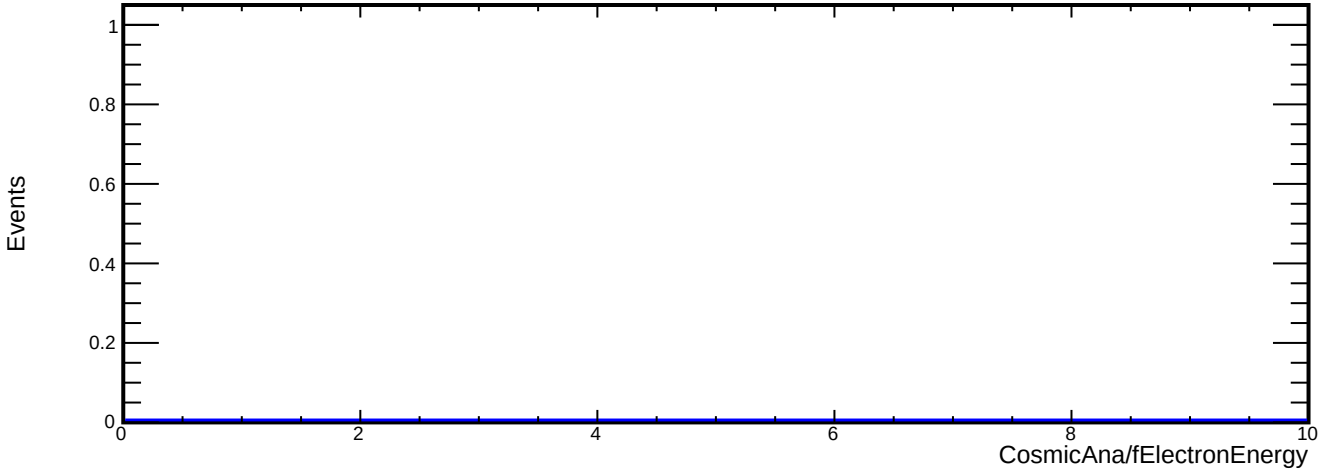

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ

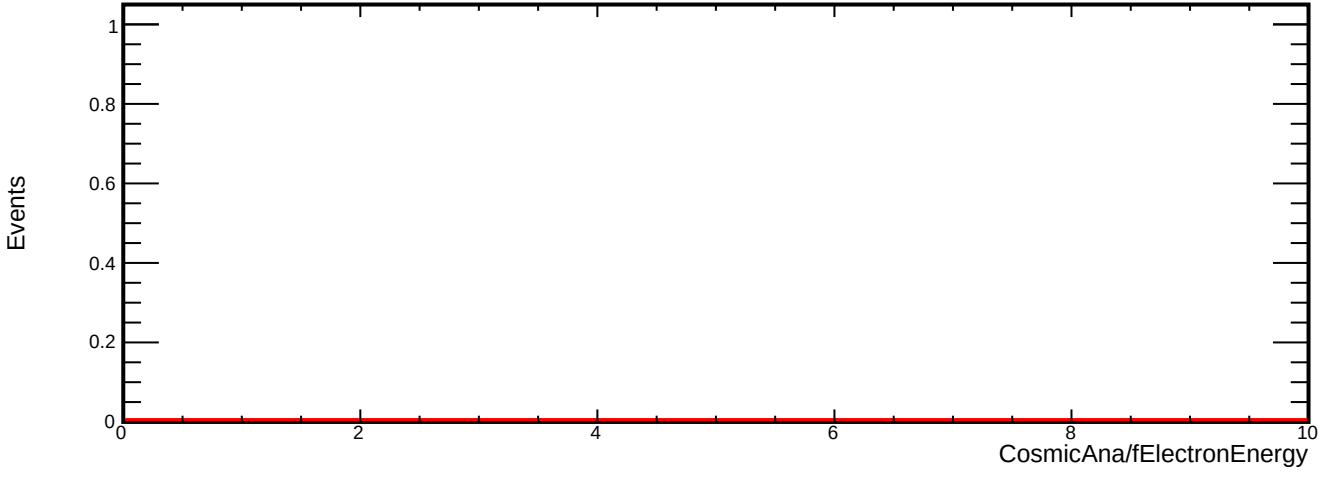

Events
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
5
CosmicAna/fPhotonEnergy

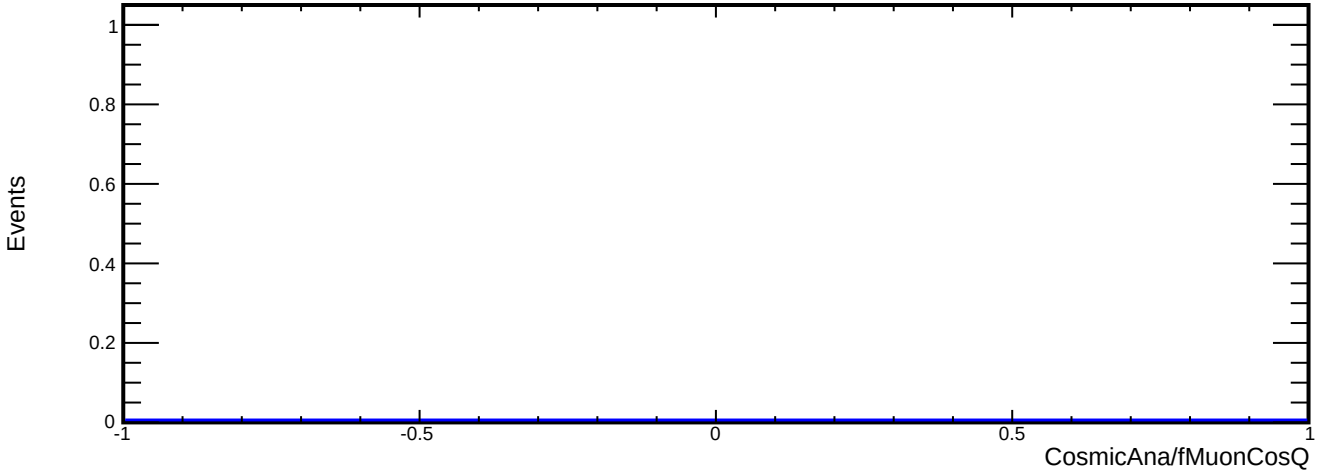

Events
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
5
CosmicAna/fPhotonEnergy

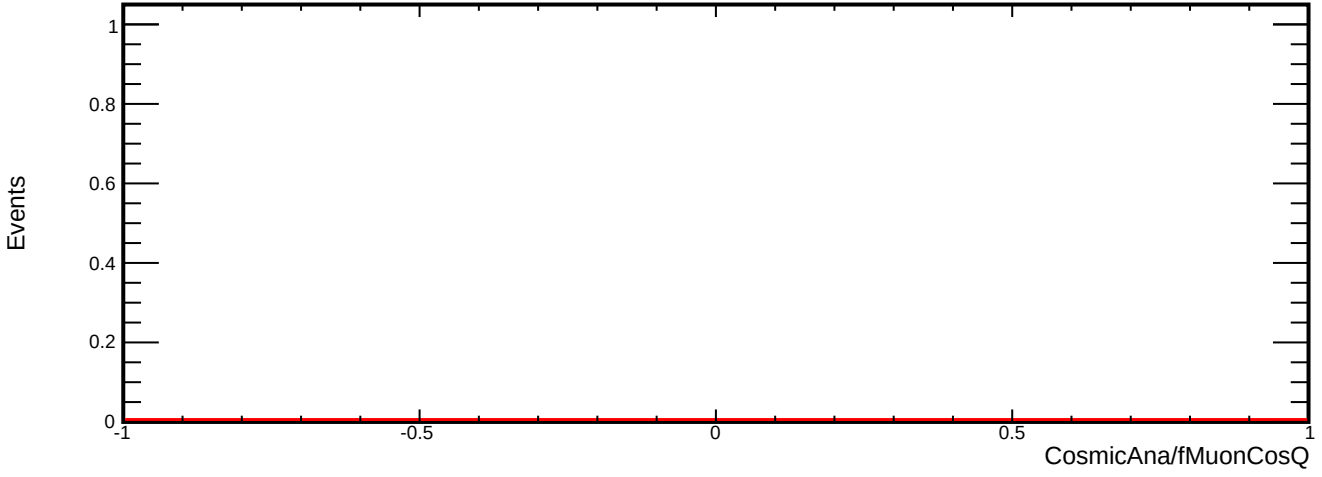

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ

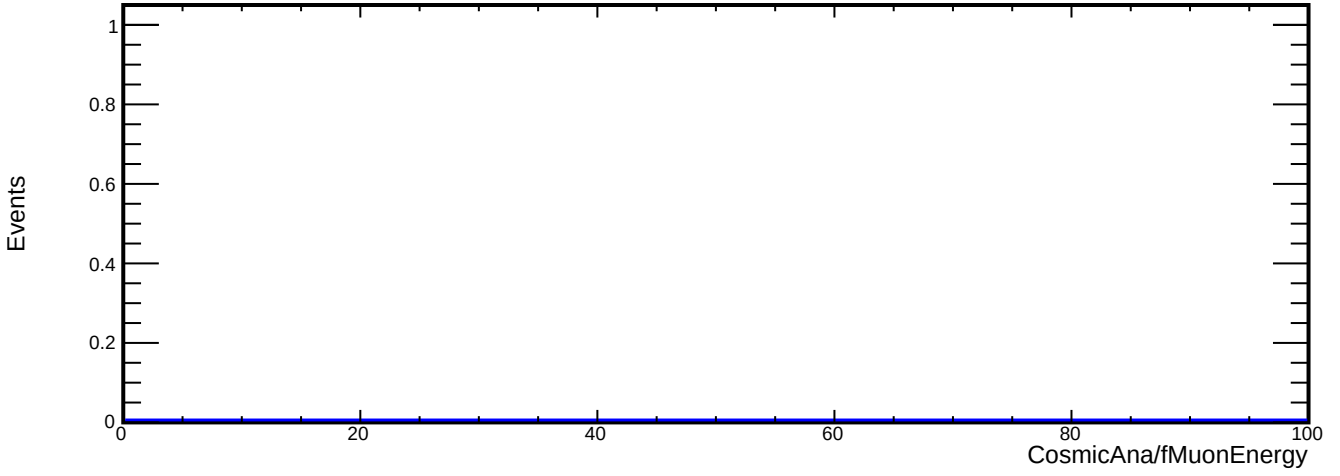

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ

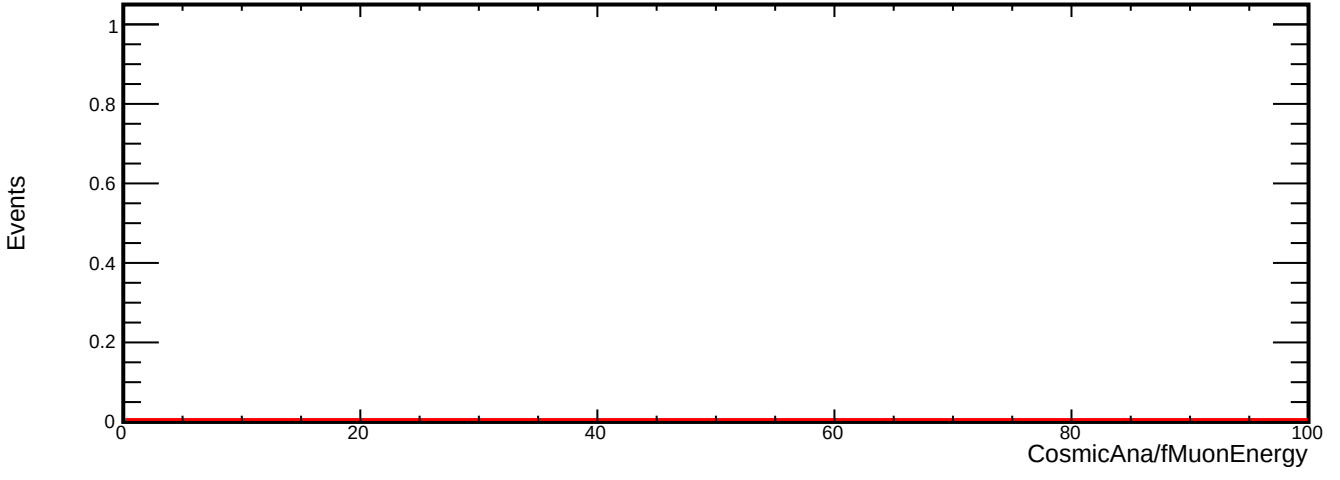

Events
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
CosmicAna/fElectronEnergy

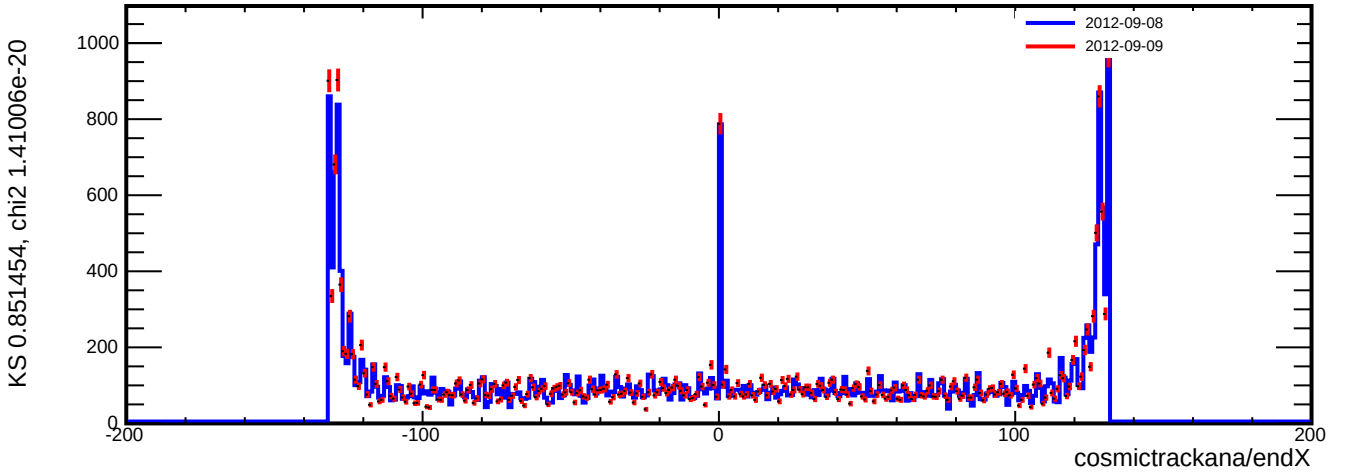

Events
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
CosmicAna/fElectronEnergy

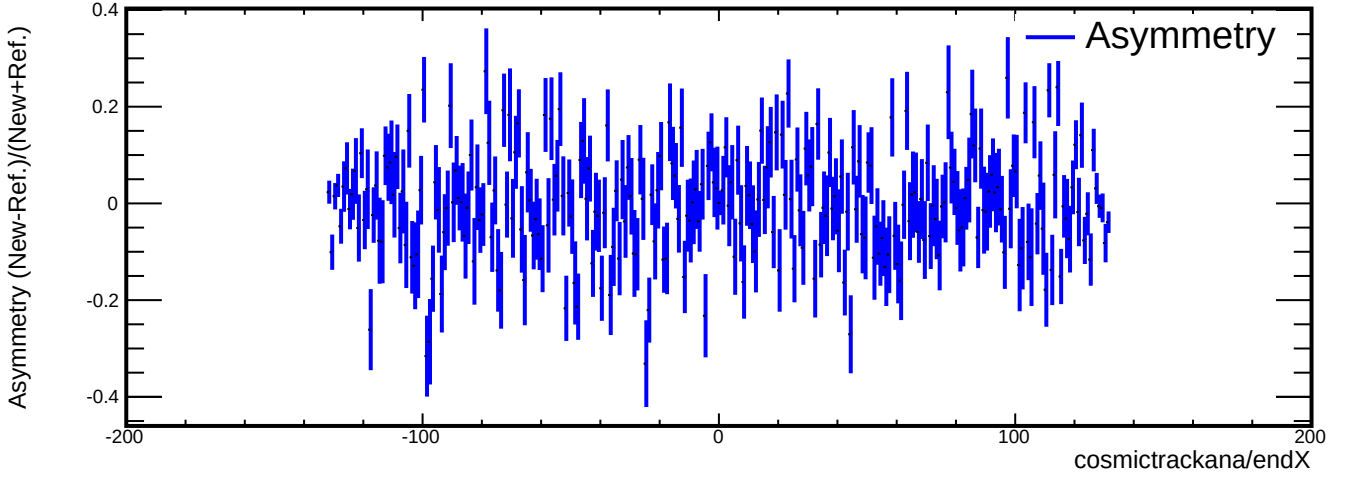

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fMuonCosQ

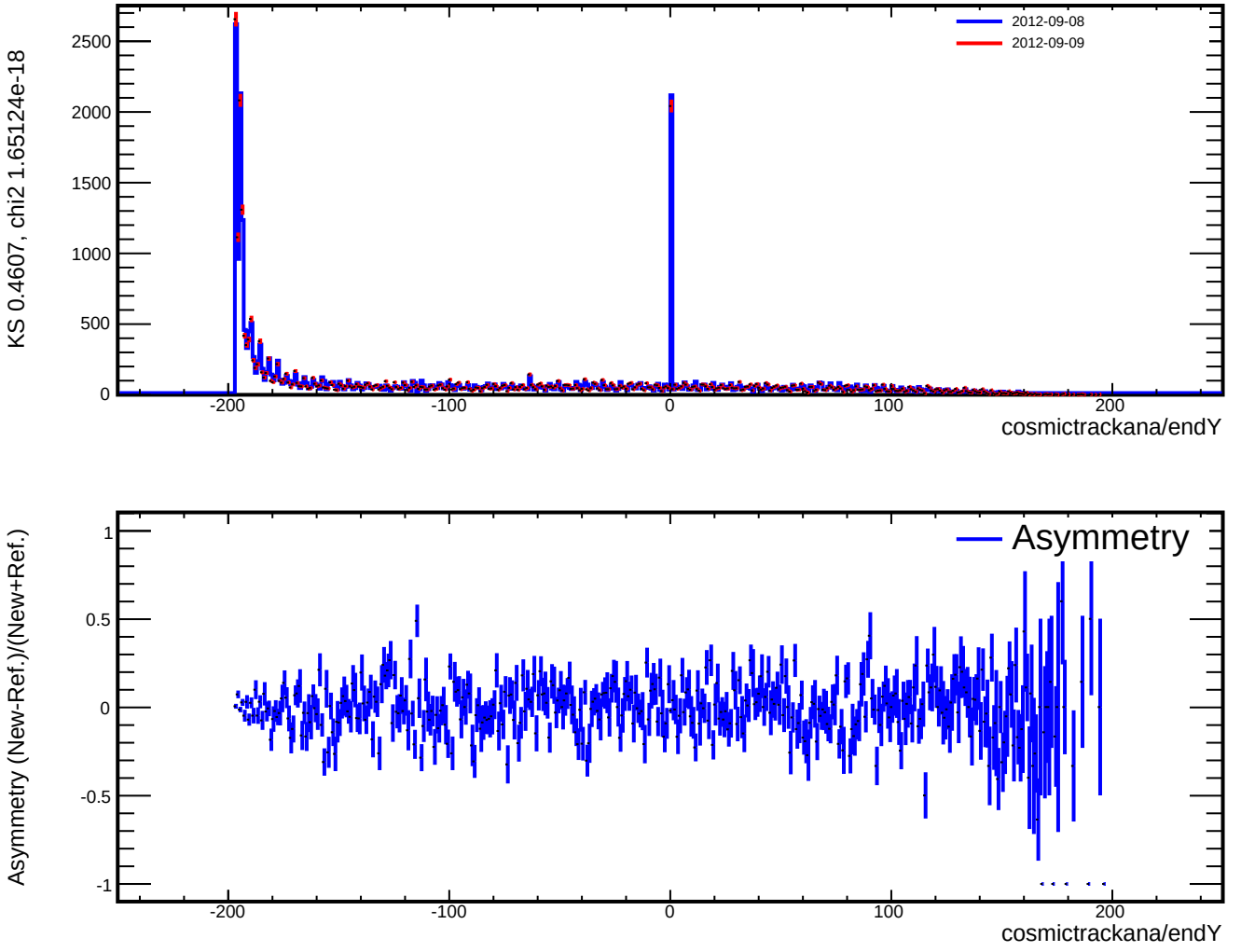

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fMuonCosQ

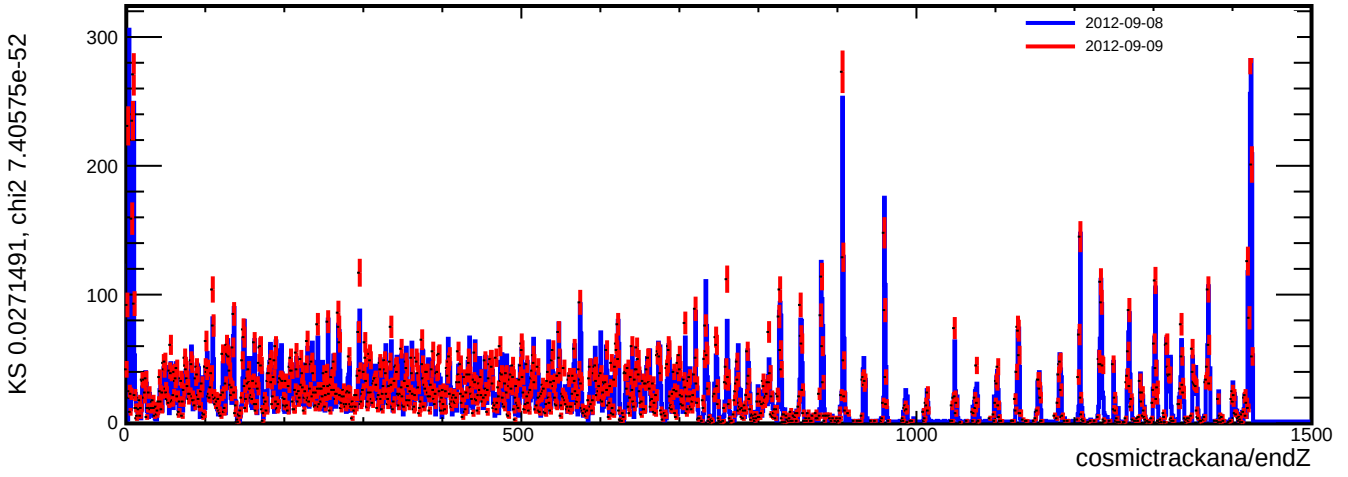

Events
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
CosmicAna/fMuonEnergy

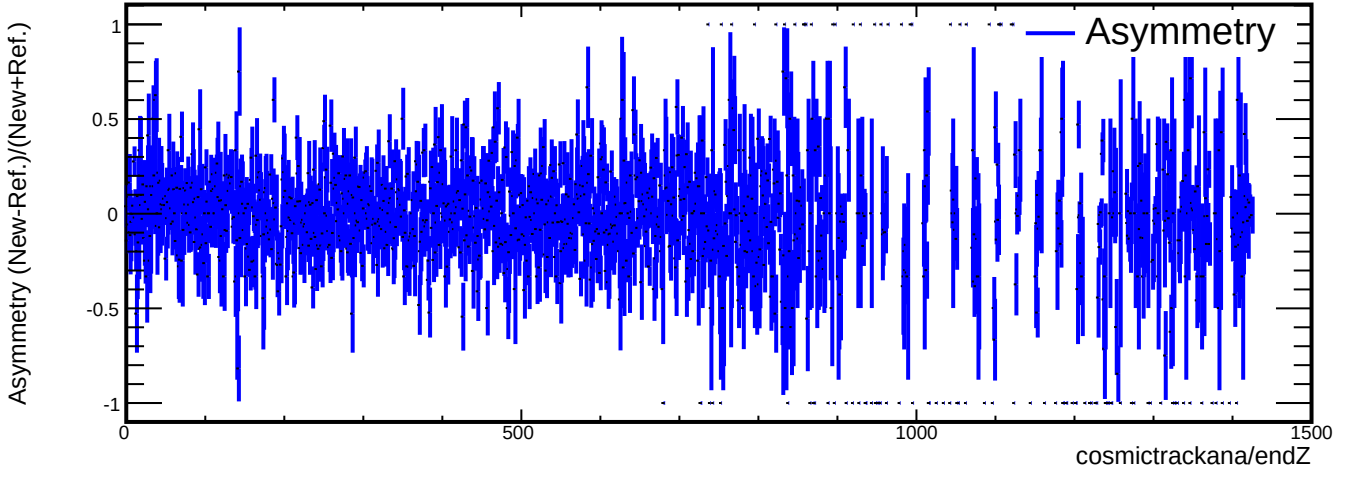

Events
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
CosmicAna/fMuonEnergy

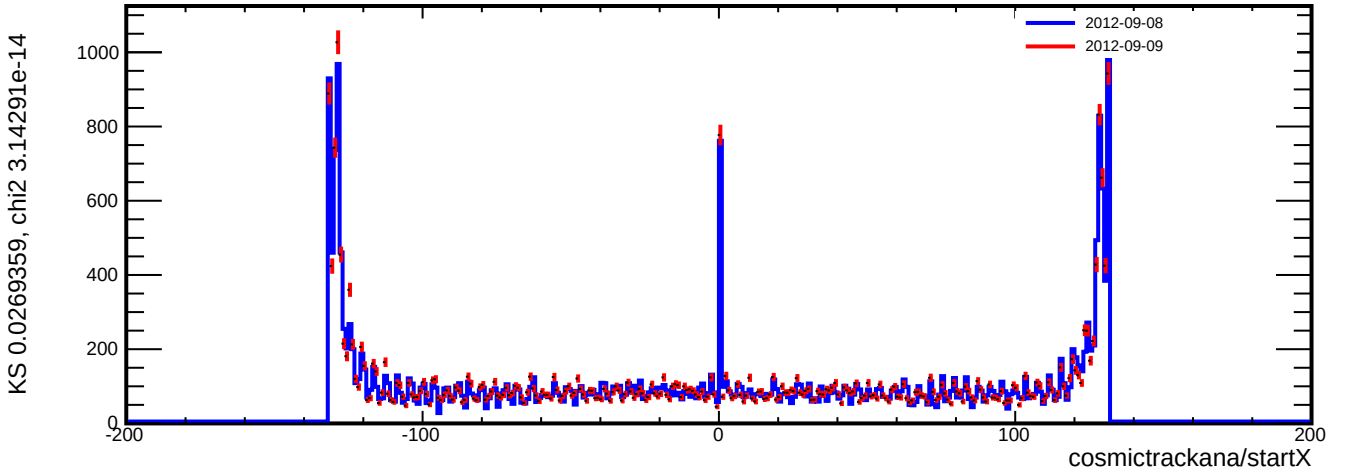

KS 0.851454, chi2 1.41006e-20
2012-09-08
2012-09-09
1000
800
600
400
200
0
-200
-100
0
100
200
cosmictrackana/endX

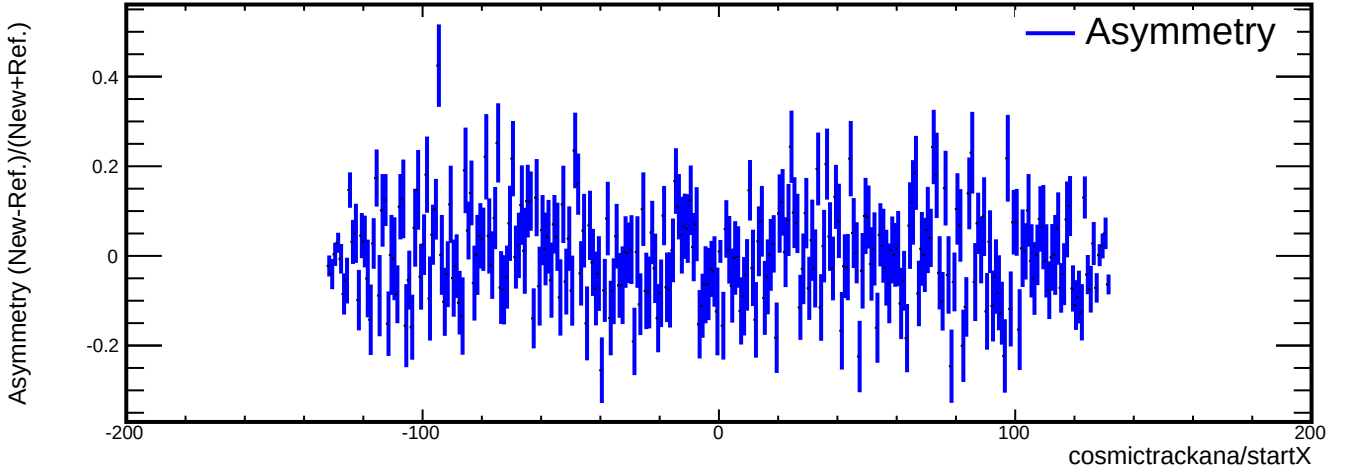

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.4
0.2
0
-0.2
-0.4
-200
-100
0
100
200
cosmictrackana/endX

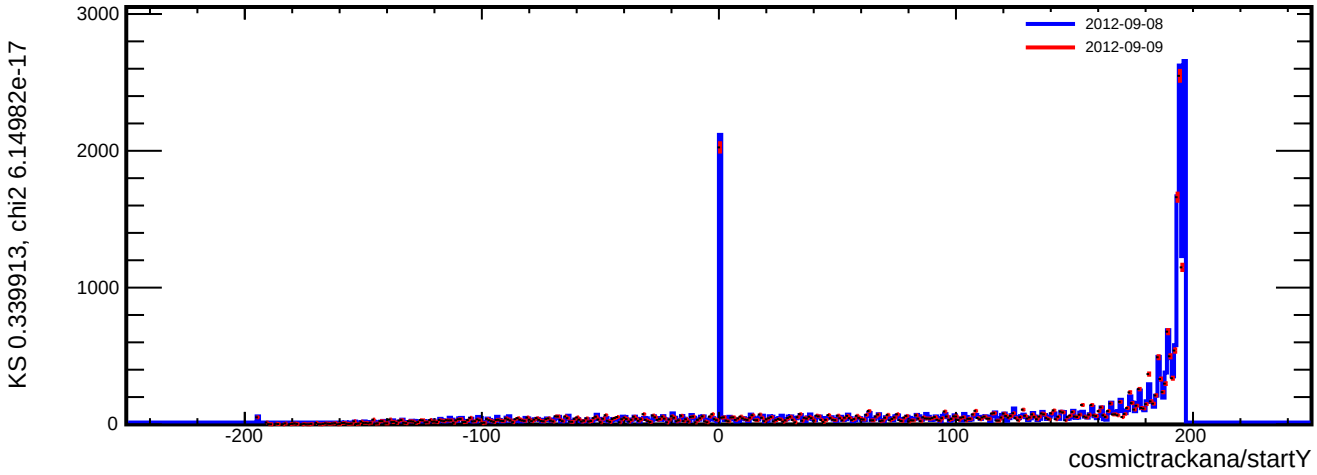

KS 0.4607, chi2 1.65124e-18
2012-09-08
2012-09-09
cosmictrackana/endY
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/endY

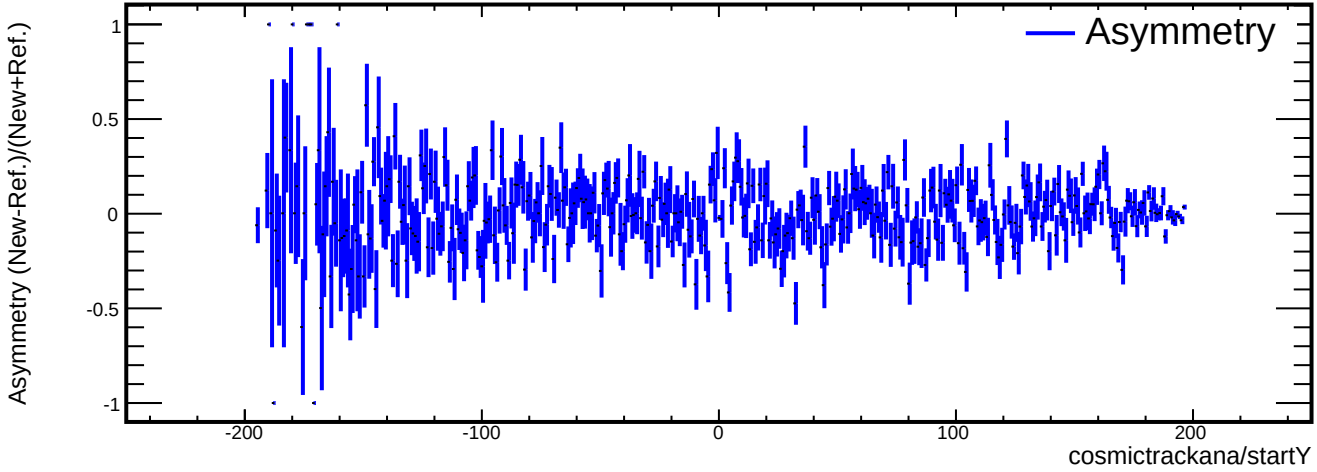

KS 0.0271491, chi2 7.40575e-52
2012-09-08
2012-09-09
300
200
100
0
0
500
1000
1500
cosmictrackana/endZ

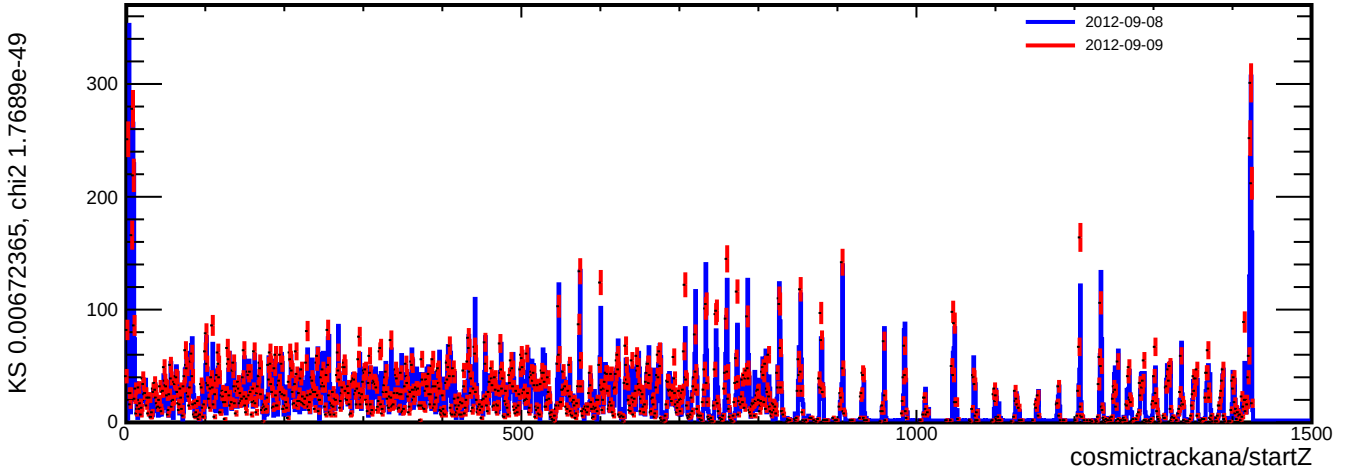

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/endZ

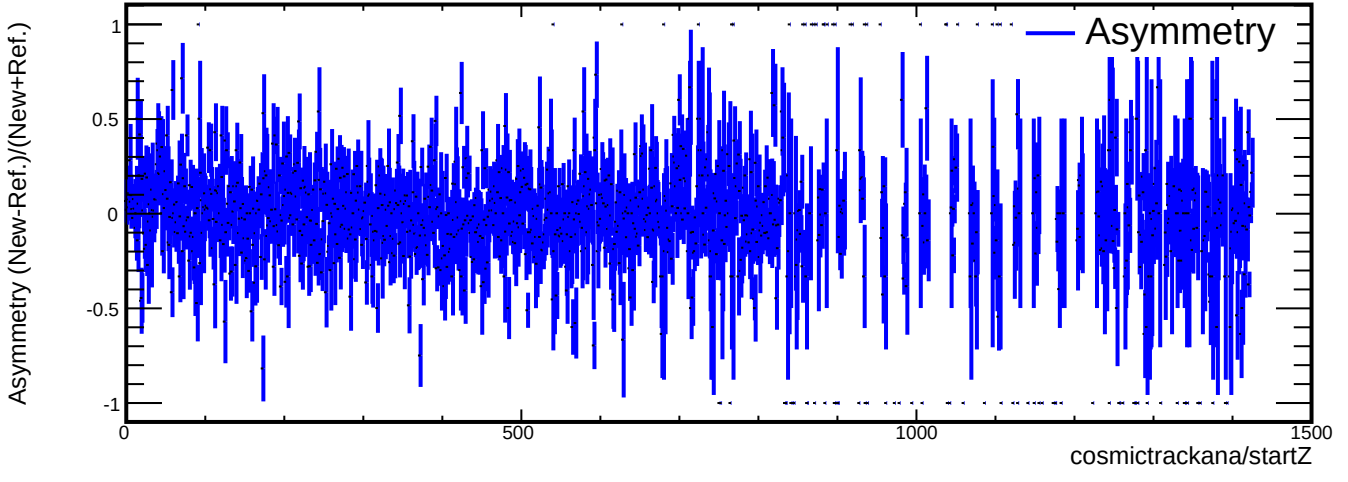

KS 0.0269359, chi2 3.14291e-14
2012-09-08
2012-09-09
1000
800
600
400
200
0
-200
-100
0
100
200
cosmictrackana/startX

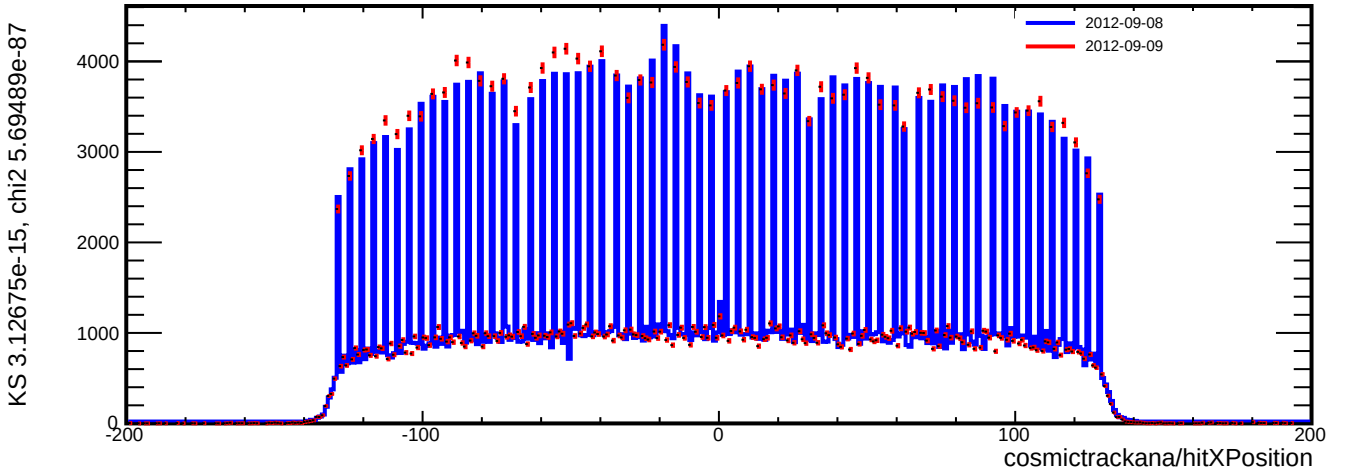

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.4
0.2
0
-0.2
-200
-100
0
100
200
cosmictrackana/startX

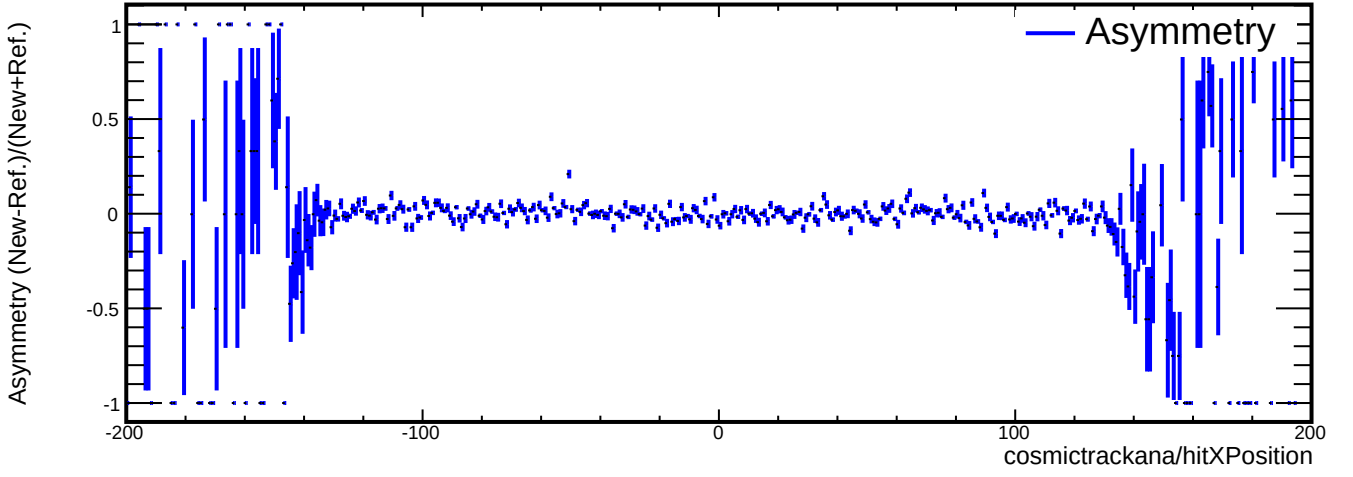

KS 0.339913, chi2 6.14982e-17
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/startY
2012-09-08
2012-09-09

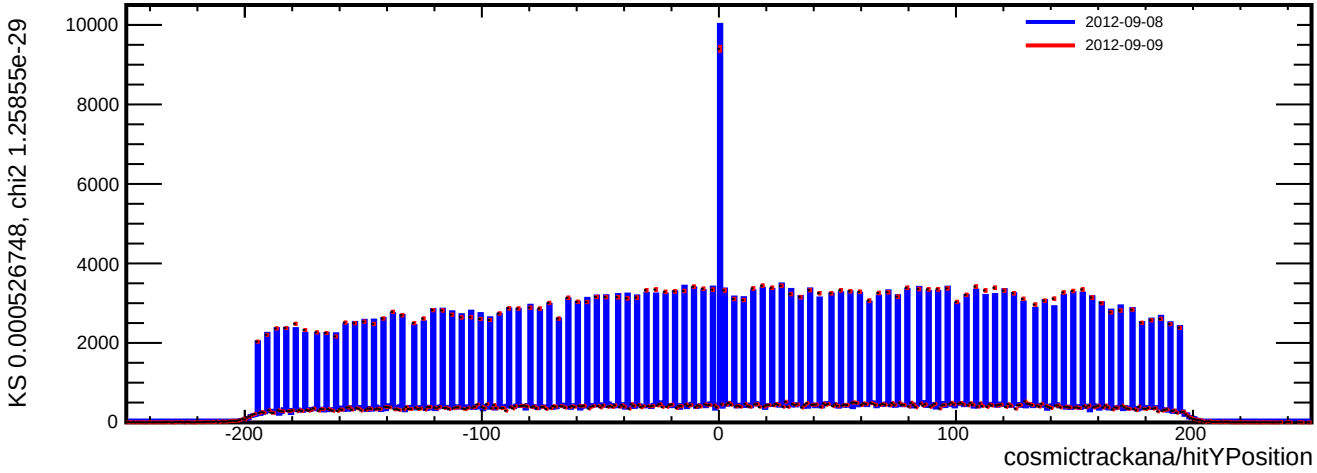

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/startY
Asymmetry

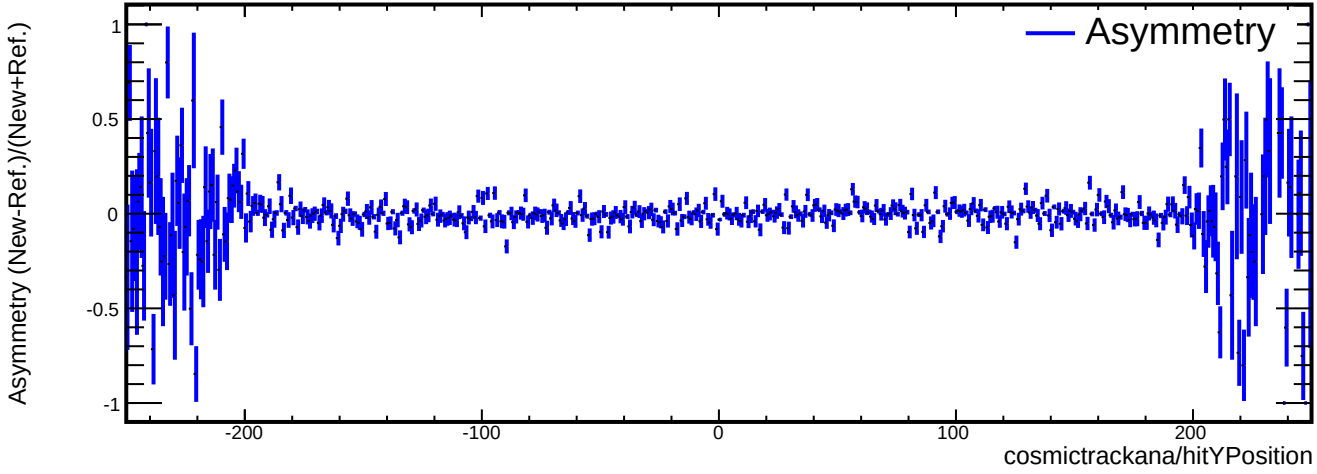

KS 0.00672365, chi2 1.7689e-49
2012-09-08
2012-09-09
300
200
100
0
0
500
1000
1500
cosmictrackana/startZ

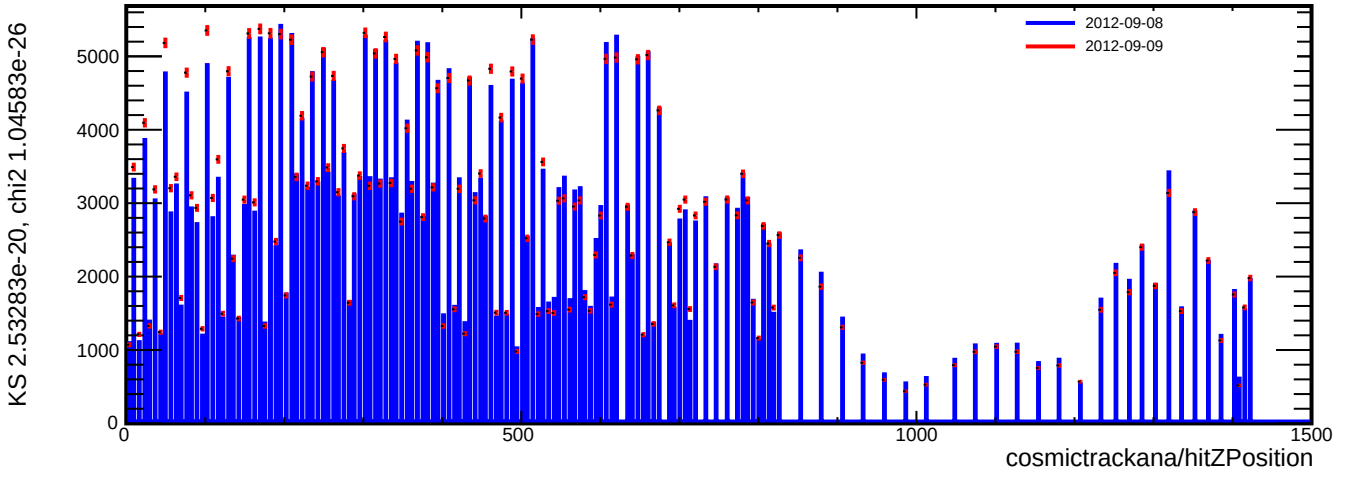

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/startZ

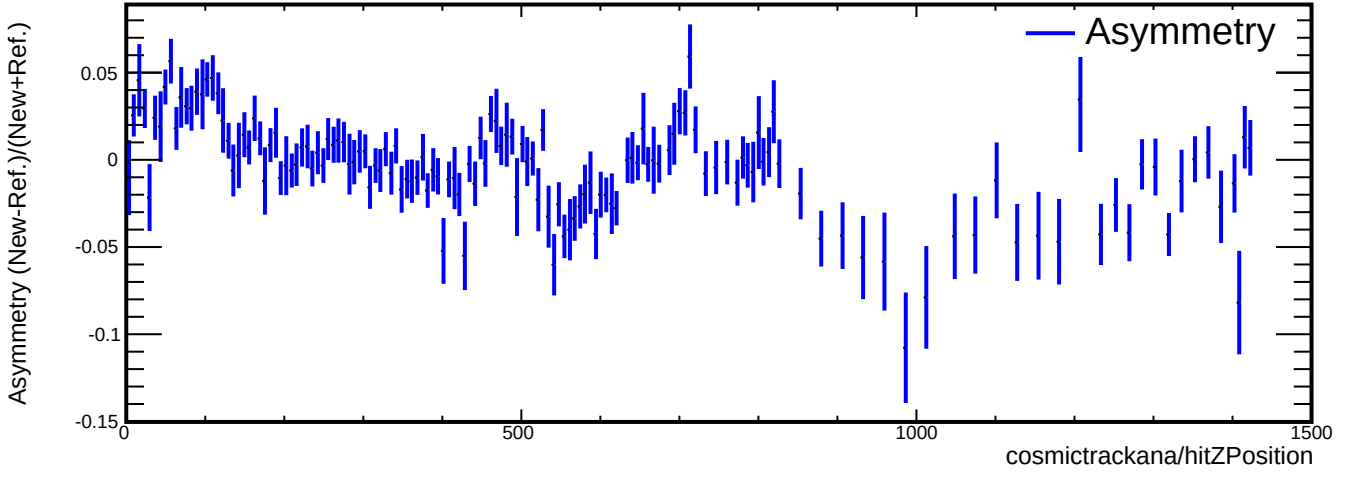

KS 3.12675e-15, chi2 5.69489e-87
2012-09-08
2012-09-09
4000
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/hitXPosition

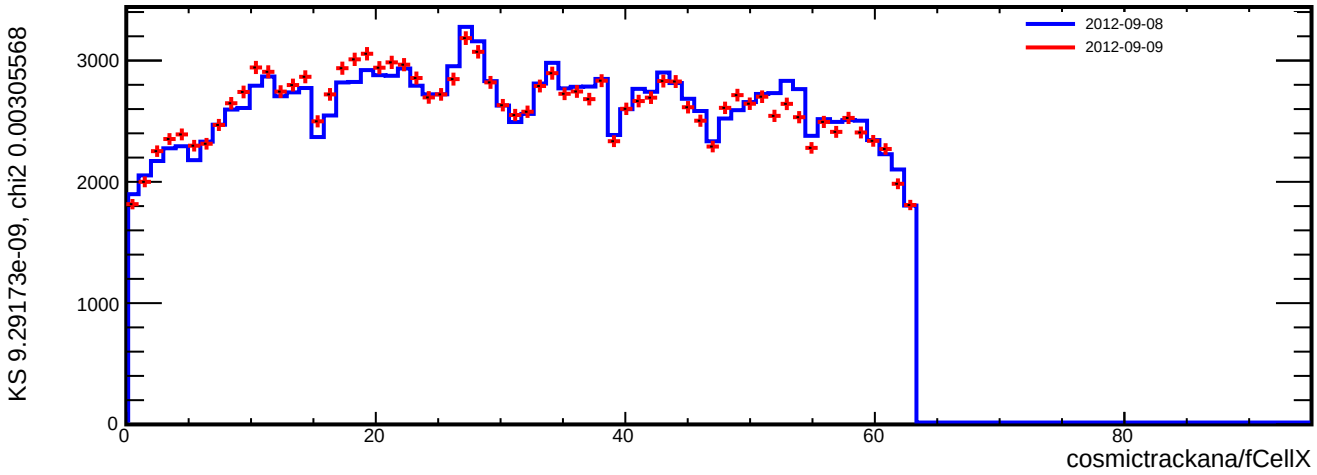

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitXPosition

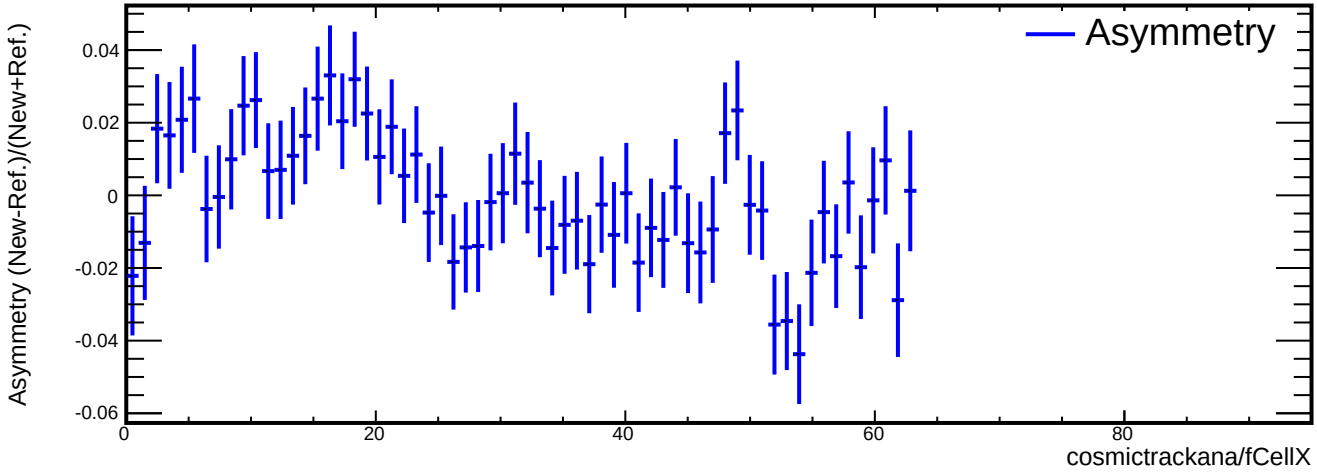

KS 0.000526748, chi2 1.25855e-29
10000
8000
6000
4000
2000
0
-200
-100
0
100
200
cosmictrackana/hitYPosition
2012-09-08
2012-09-09

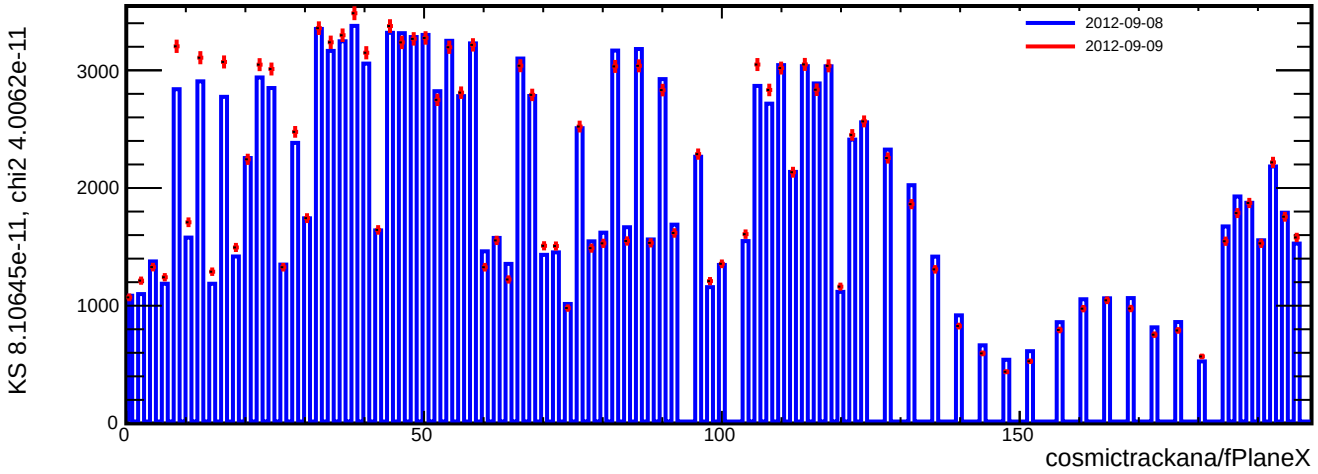

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitYPosition
Asymmetry

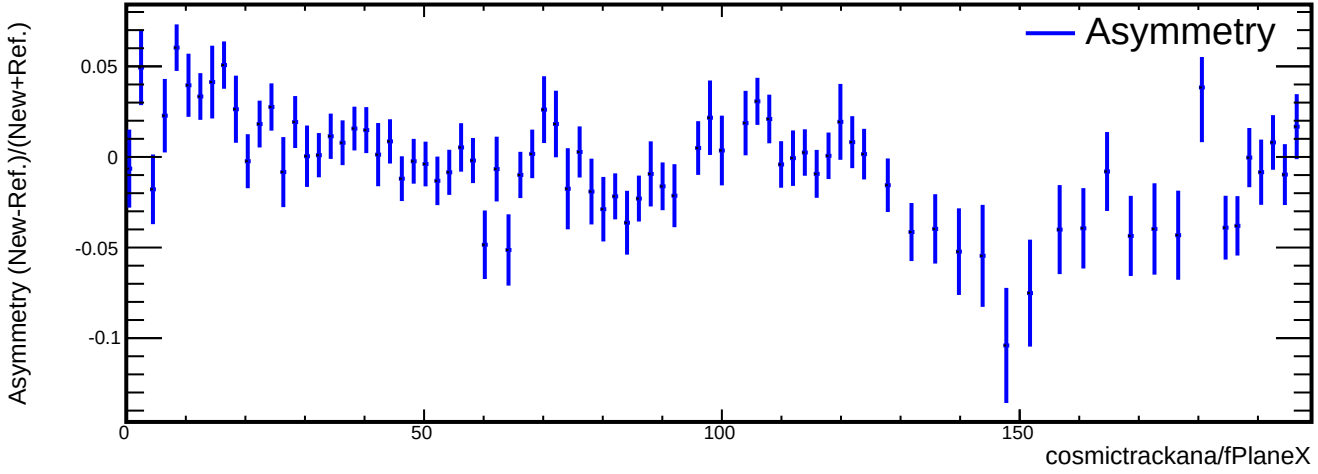

KS 2.53283e-20, chi2 1.04583e-26
2012-09-08
2012-09-09
0
1000
2000
3000
4000
5000
0
500
1000
1500
cosmictrackana/hitZPosition

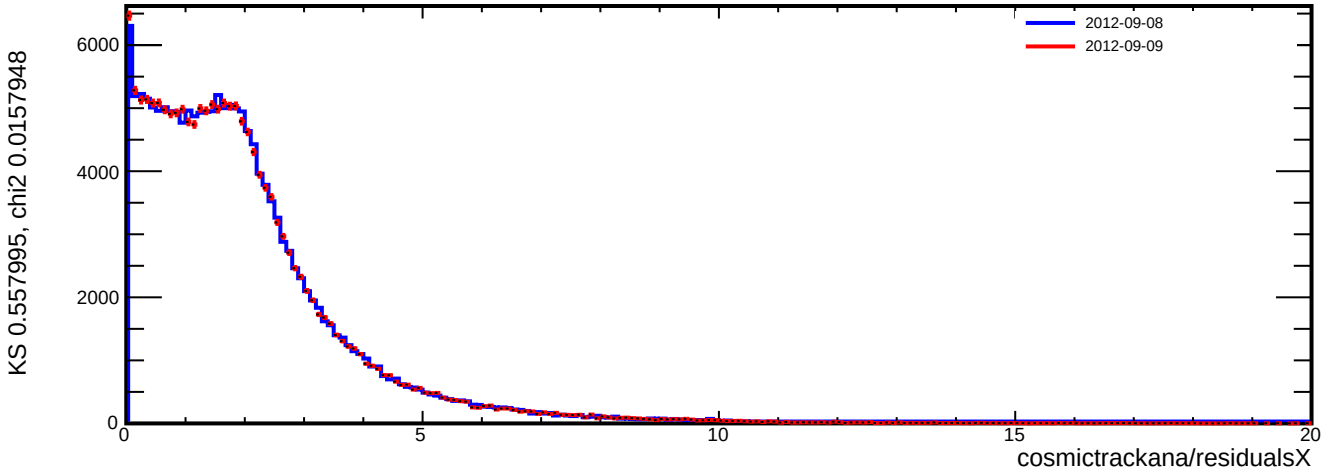

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.05
0
-0.05
-0.1
-0.15
0
500
1000
1500
cosmictrackana/hitZPosition

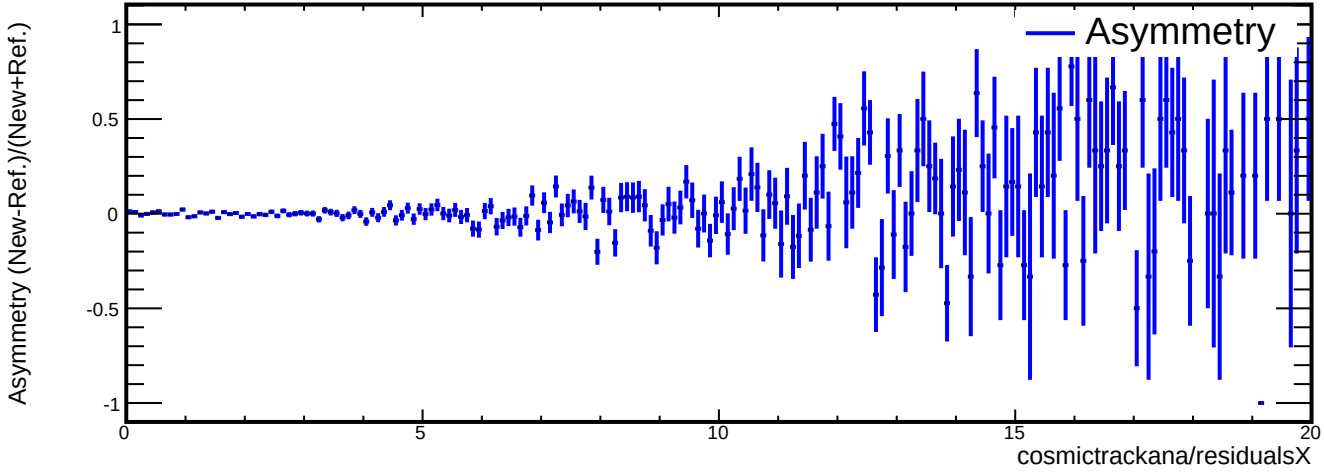

KS 9.29173e-09, chi2 0.00305568
2012-09-08
2012-09-09
3000
2000
1000
0
0
20
40
60
80
cosmictrackana/fCellX

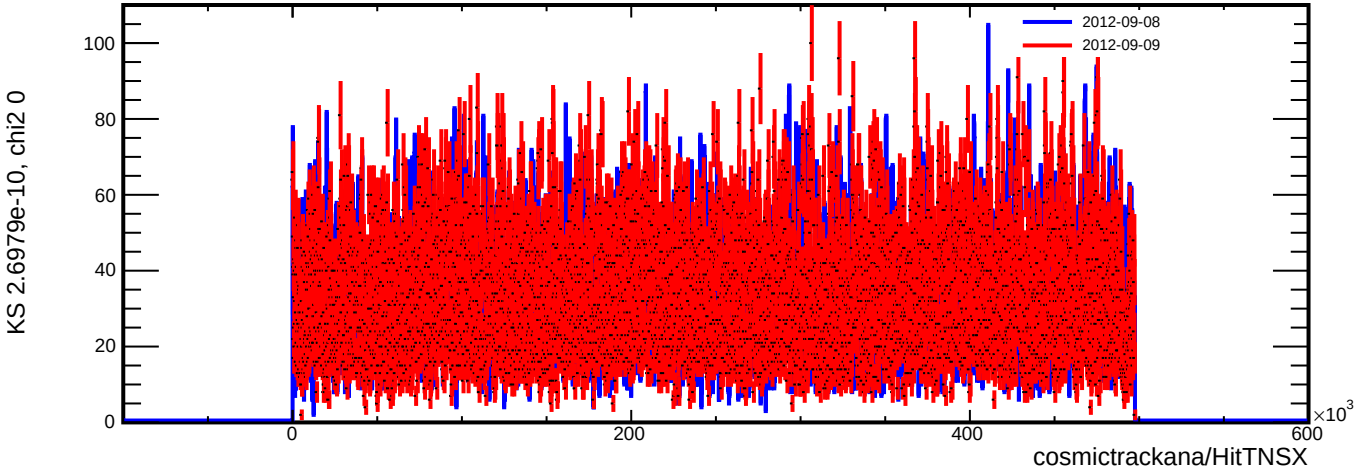

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.04
0.02
0
-0.02
-0.04
-0.06
0
20
40
60
80
cosmictrackana/fCellX

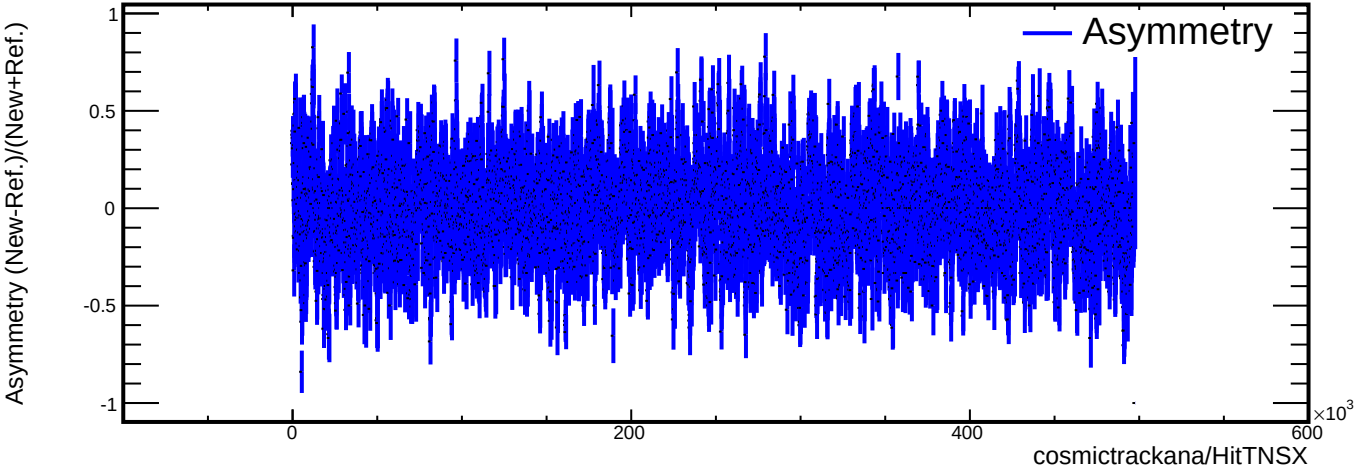

KS 8.10645e-11, chi2 4.0062e-11
2012-09-08
2012-09-09
0
1000
2000
3000
0
50
100
150
cosmictrackana/fPlaneX

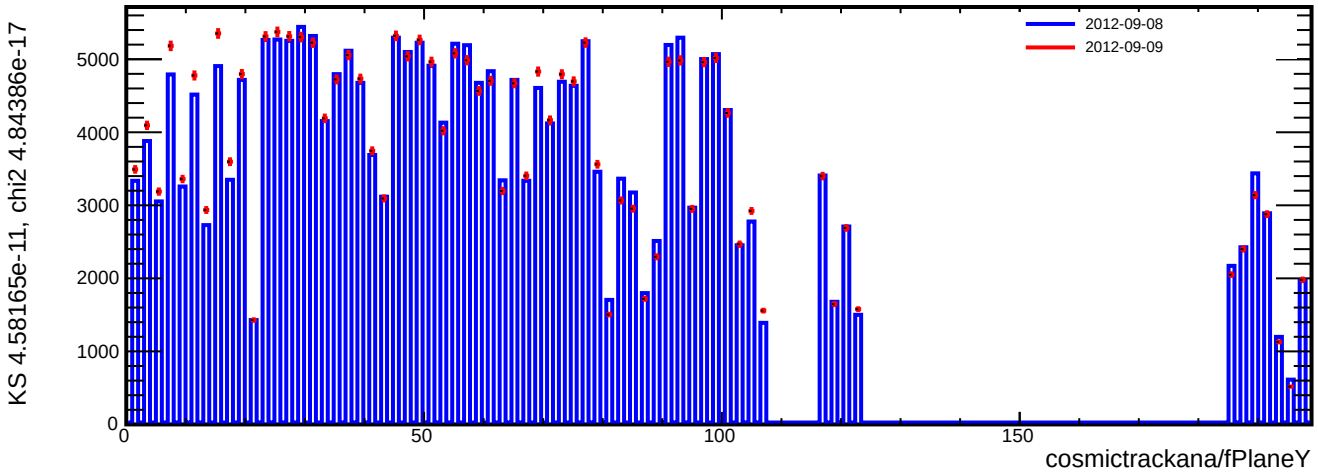

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.05
0
-0.05
-0.1
0
50
100
150
cosmictrackana/fPlaneX

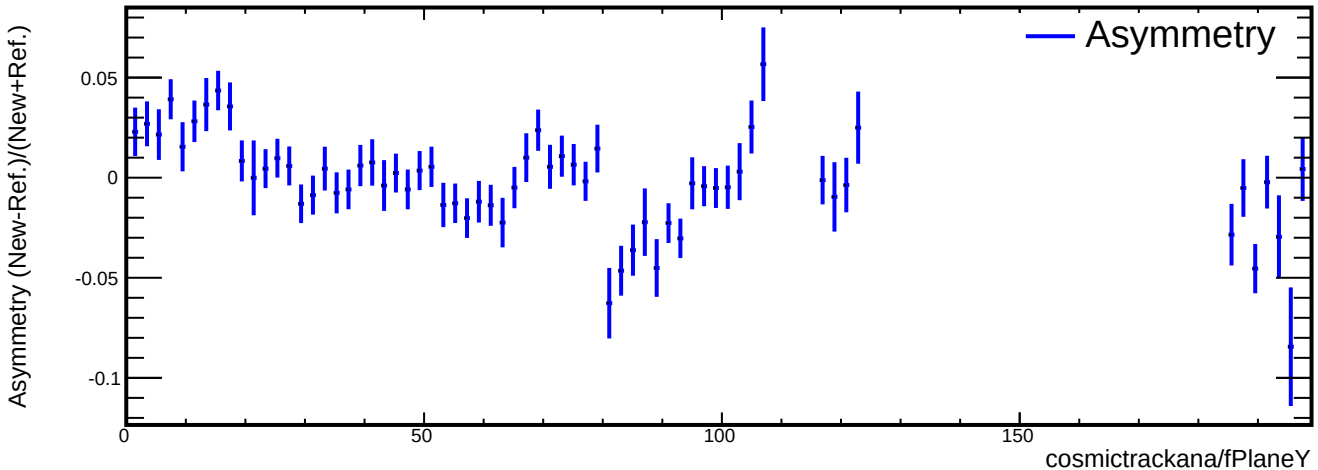

KS 0.557995, chi2 0.0157948
2012-09-08
2012-09-09
6000
4000
2000
0
0
5
10
15
20
cosmictrackana/residualsX

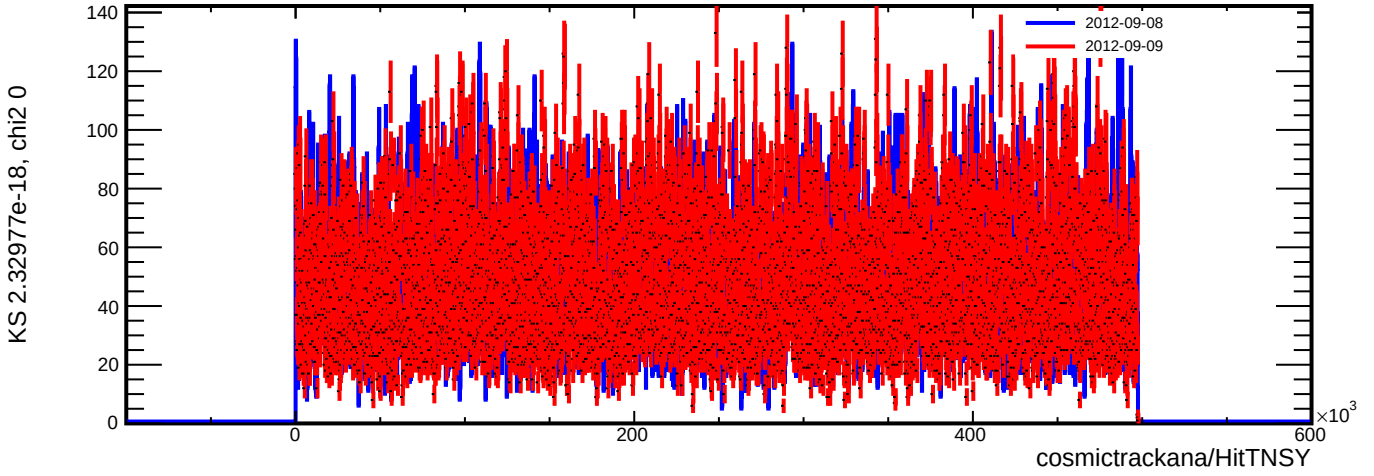

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
5
10
15
20
cosmictrackana/residualsX

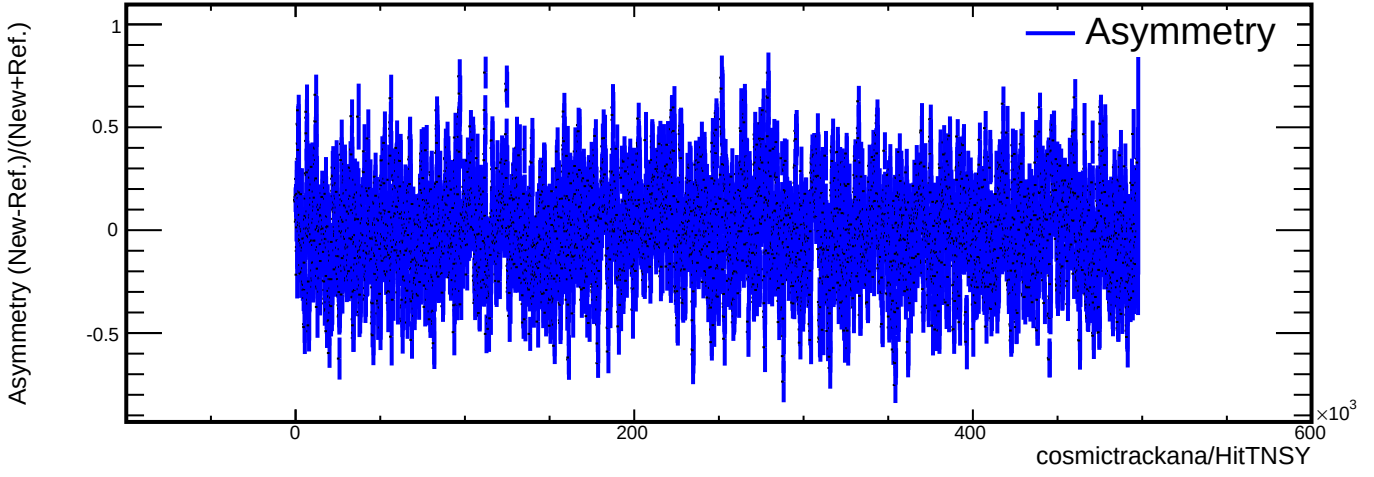

2012-09-08
2012-09-09
KS 2.6979e-10, chi2 0
100
80
60
40
20
0
0
200
400
600
×10^3
cosmictrackana/HitTNSX


Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
200
400
600
×10^3
cosmictrackana/HitTNSX


KS 4.58165e-11, chi2 4.84386e-17
2012-09-08
2012-09-09
0
1000
2000
3000
4000
5000
0
50
100
150
cosmictrackana/fPlaneY


Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.05
0
-0.05
-0.1
0
50
100
150
cosmictrackana/fPlaneY


KS 2.32977e-18, chi2 0
140
120
100
80
60
40
20
0
0
200
400
600
×10^3
cosmictrackana/HitTNSY
2012-09-08
2012-09-09


Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
0
200
400
600
×10^3
cosmictrackana/HitTNSY
Asymmetry