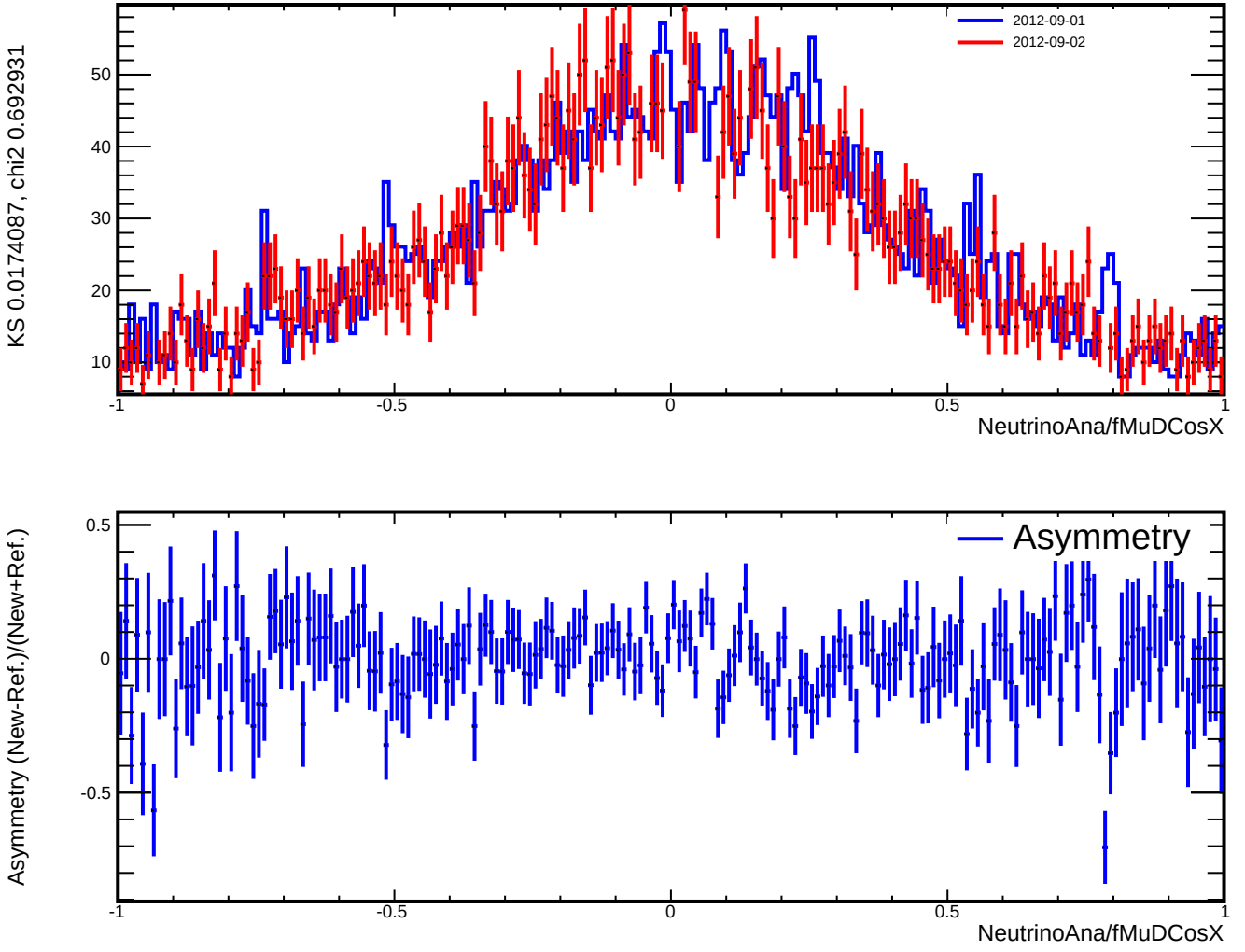
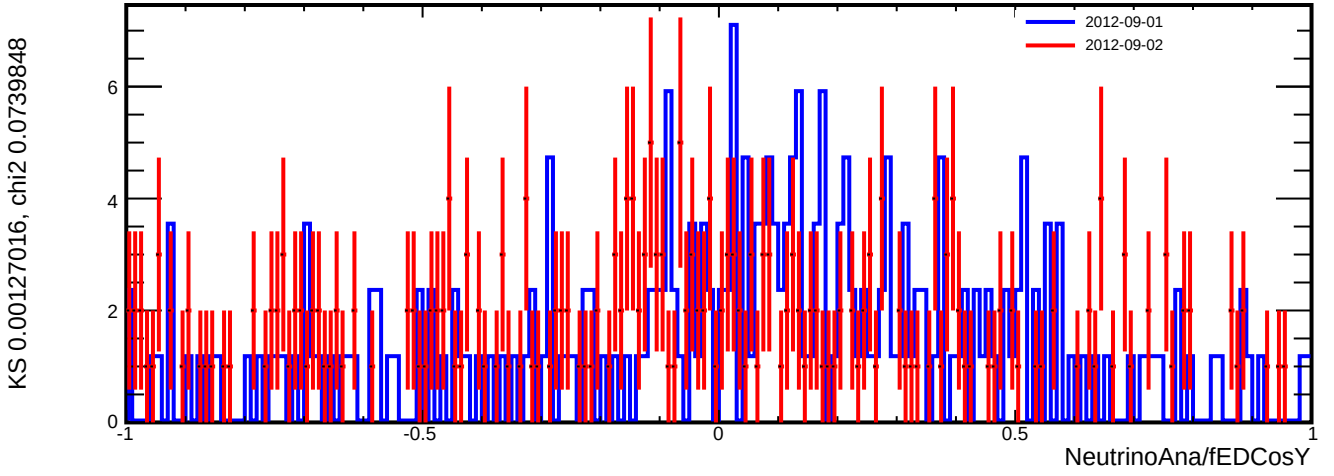
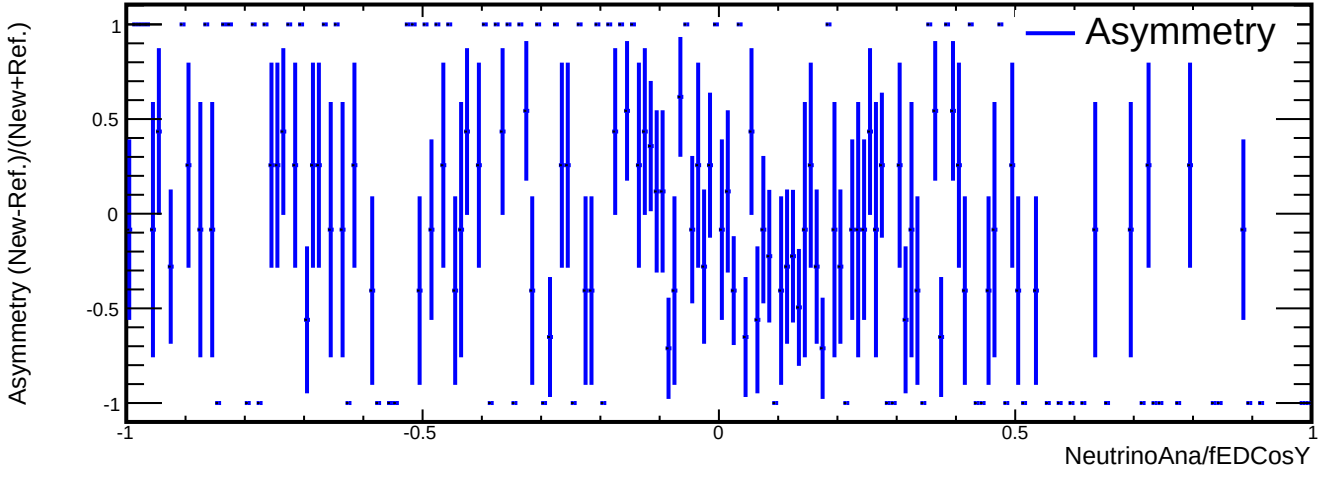
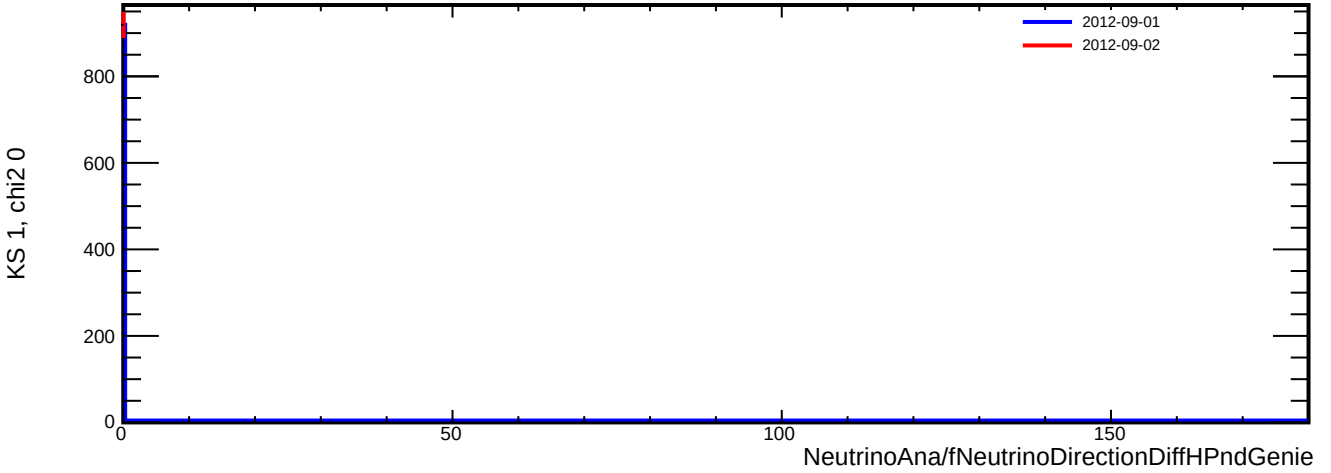
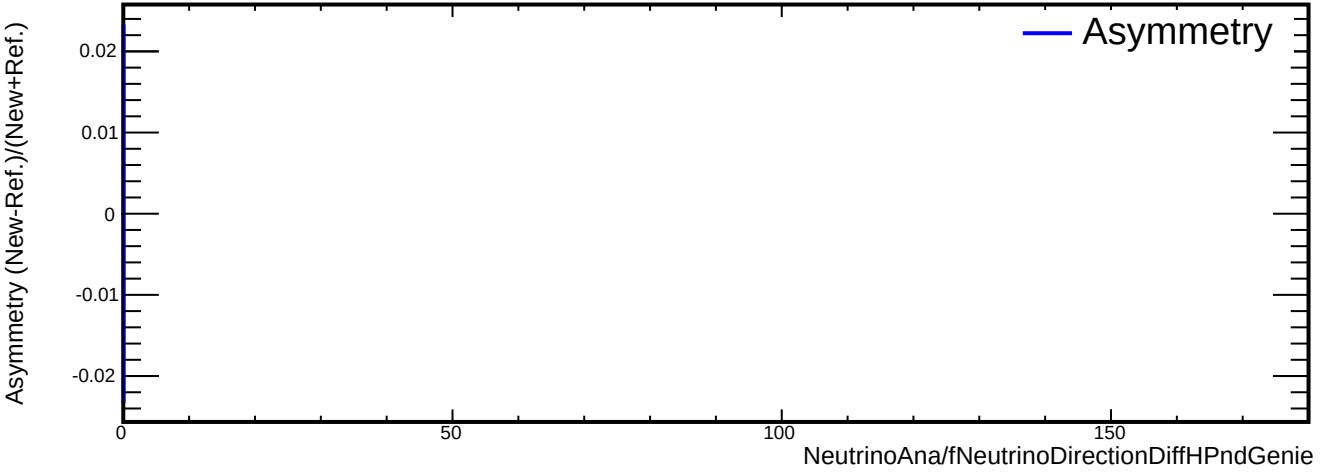
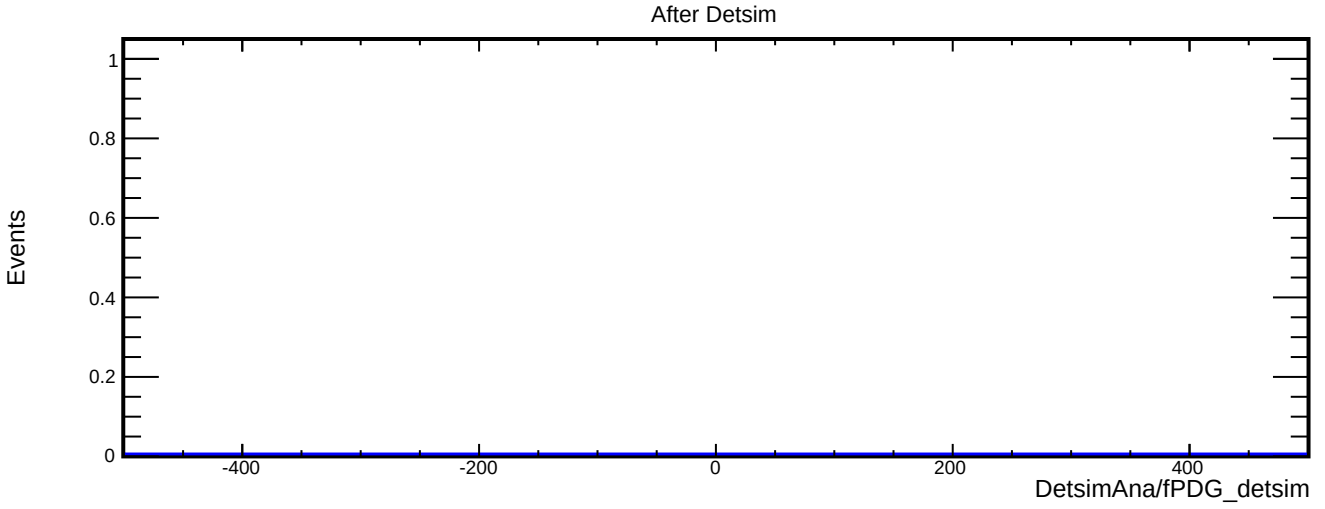

KS 0.0174087, chi2 0.692931
2012-09-01
2012-09-02
NeutrinoAna/fMuDCosX
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fMuDCosX

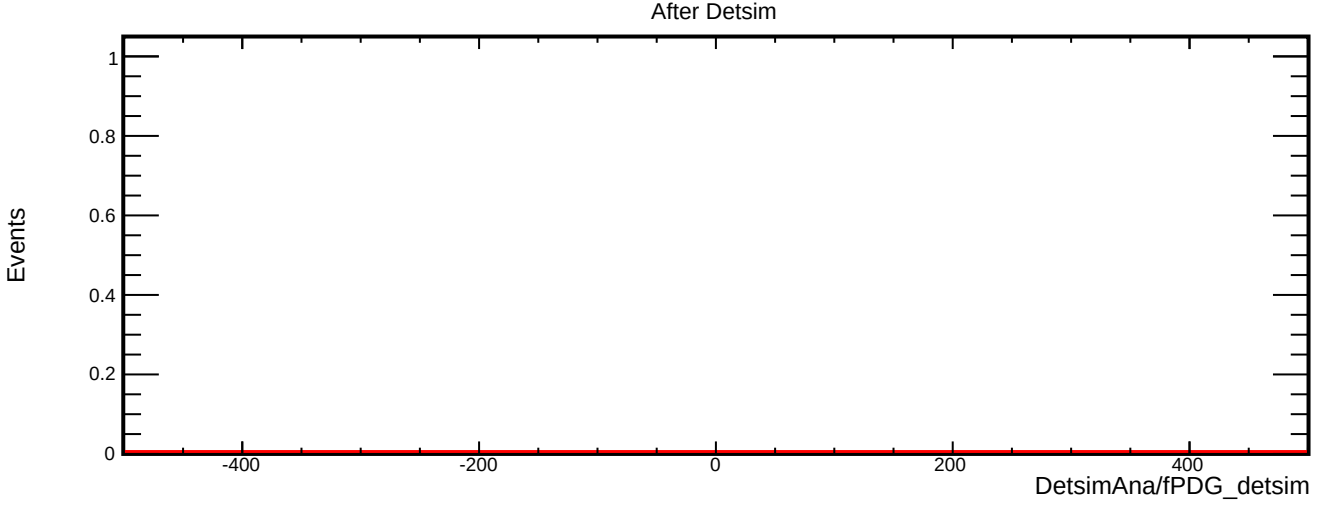

KS 0.00127016, chi2 0.0739848
2012-09-01
2012-09-02
0
2
4
6
-1
-0.5
0
0.5
1
NeutrinoAna/fEDCosY

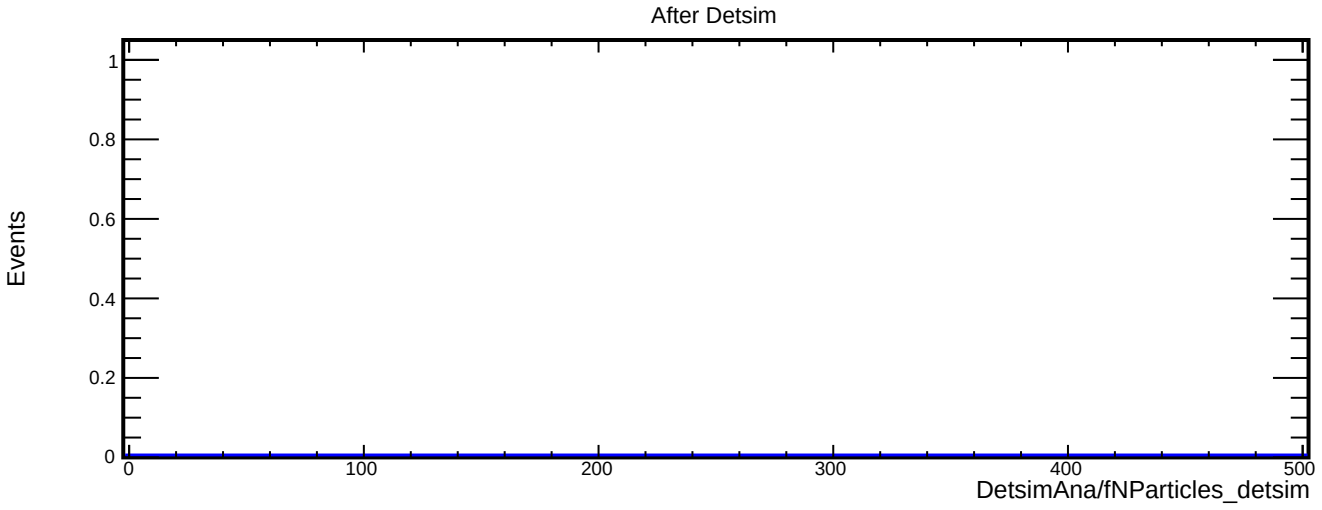

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fEDCosY

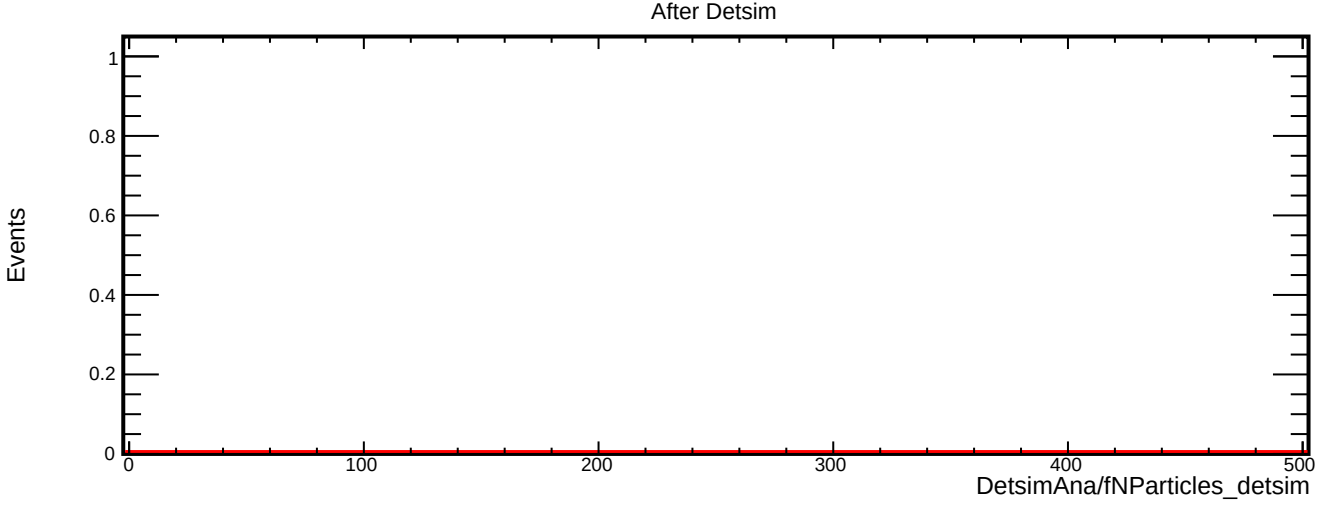

2012-09-01
2012-09-02
KS 1, chi2 0
800
600
400
200
0
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie

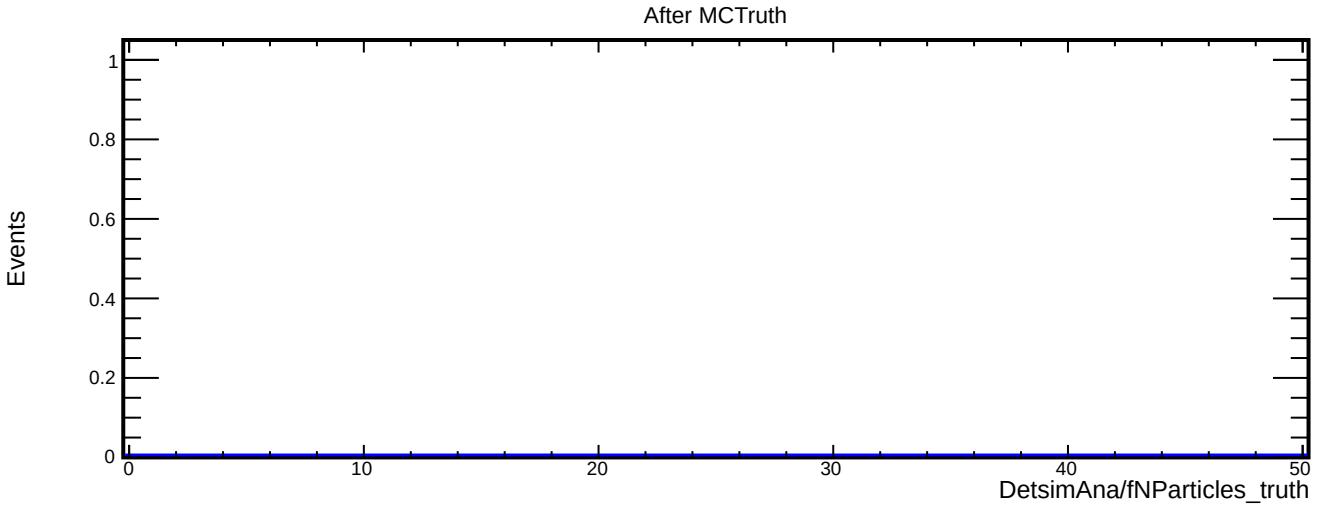

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0.02
0.01
0
-0.01
-0.02
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie

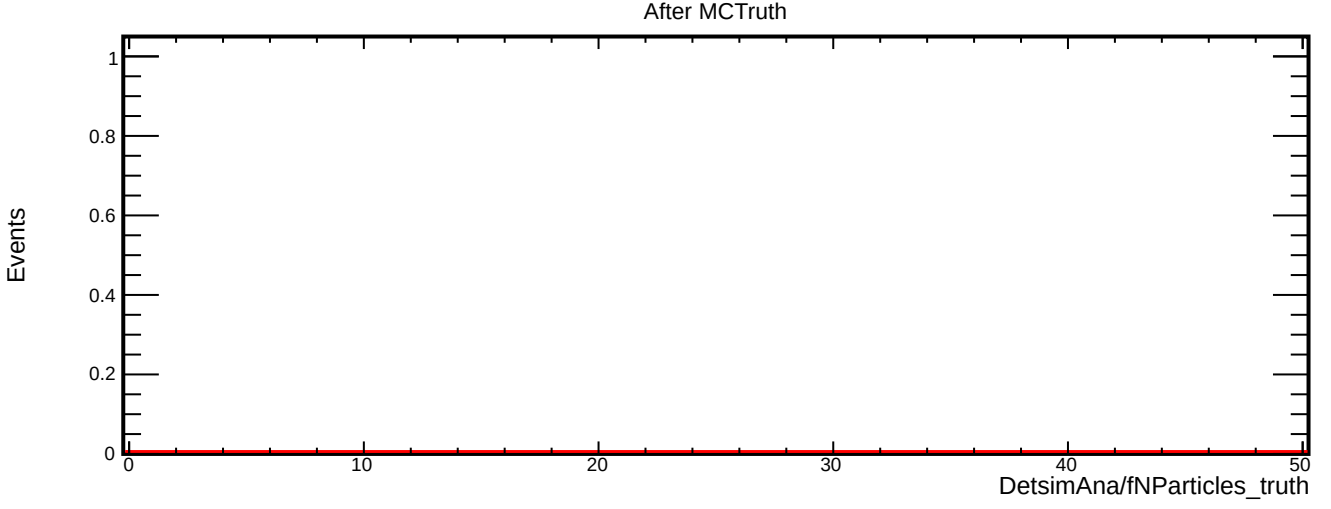

After Detsim
Events
1
0.8
0.6
0.4
0.2
0
-400
-200
0
200
400
DetsimAna/fPDG_detsim

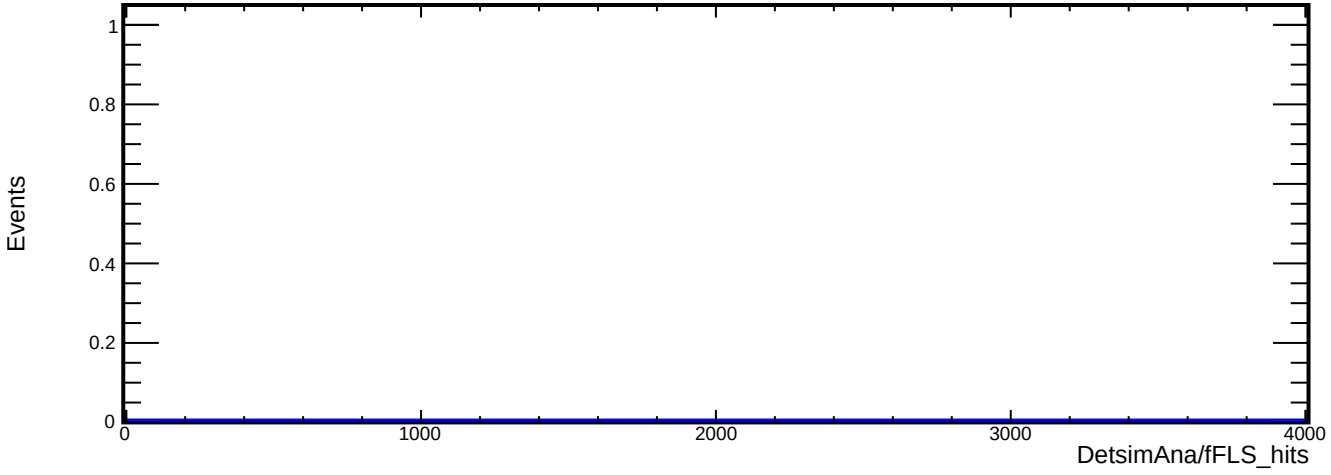

After Detsim
Events
1
0.8
0.6
0.4
0.2
0
-400
-200
0
200
400
DetsimAna/fPDG_detsim

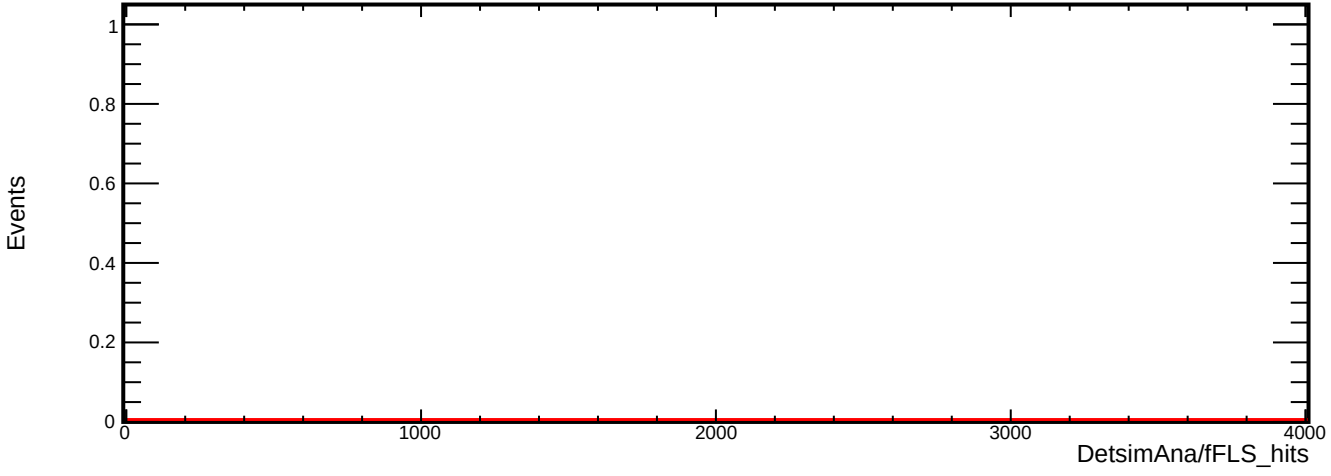

After Detsim
Events
1
0.8
0.6
0.4
0.2
0
0
100
200
300
400
500
DetsimAna/fNParticles_detsim

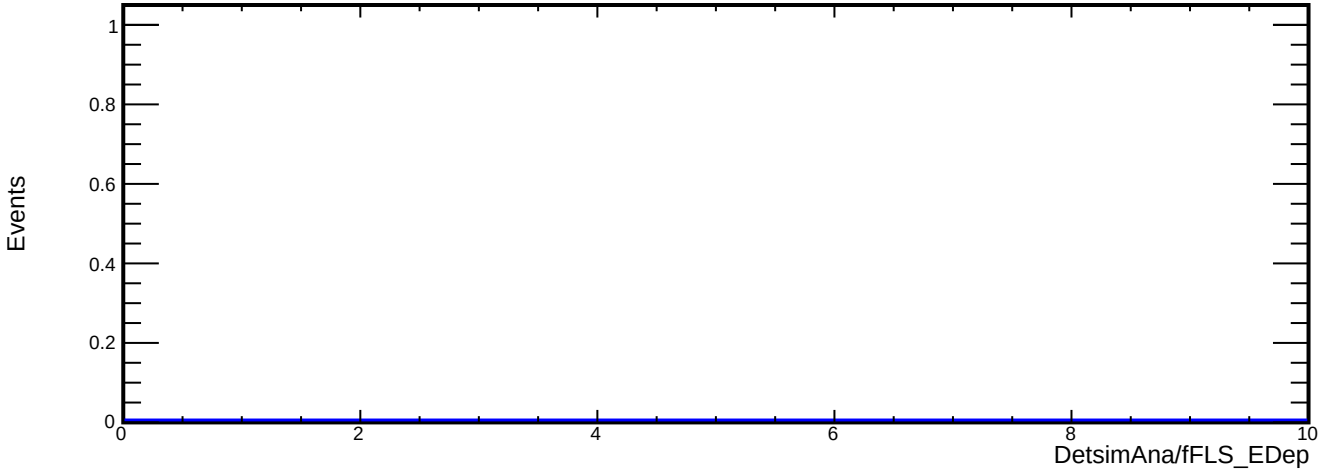

After Detsim
Events
1
0.8
0.6
0.4
0.2
0
0
100
200
300
400
500
DetsimAna/fNParticles_detsim

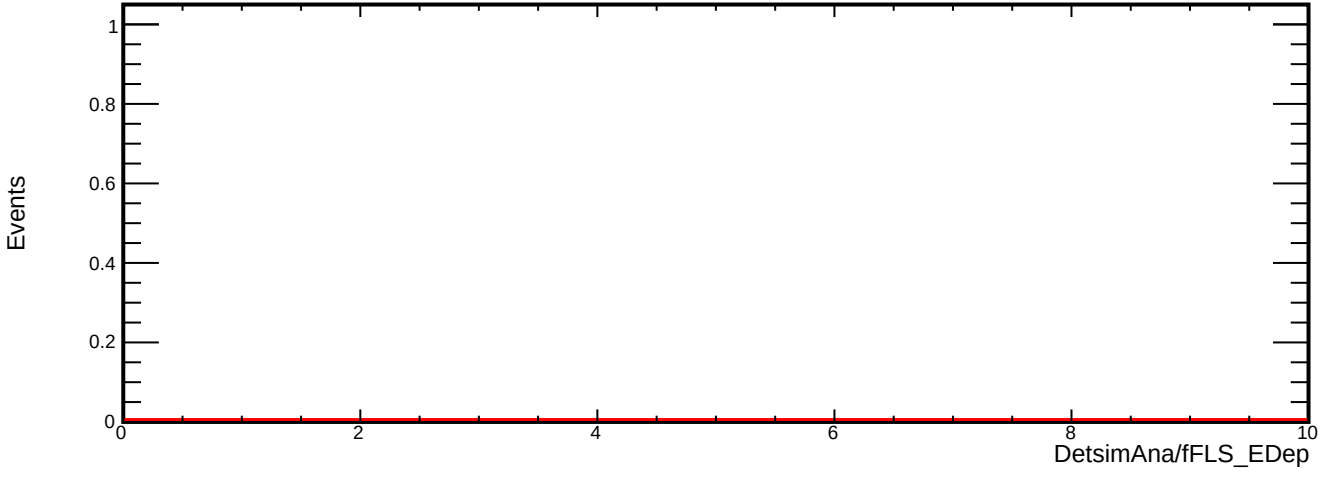

After MCTruth
Events
1
0.8
0.6
0.4
0.2
0
0
10
20
30
40
50
DetsimAna/fNParticles_truth

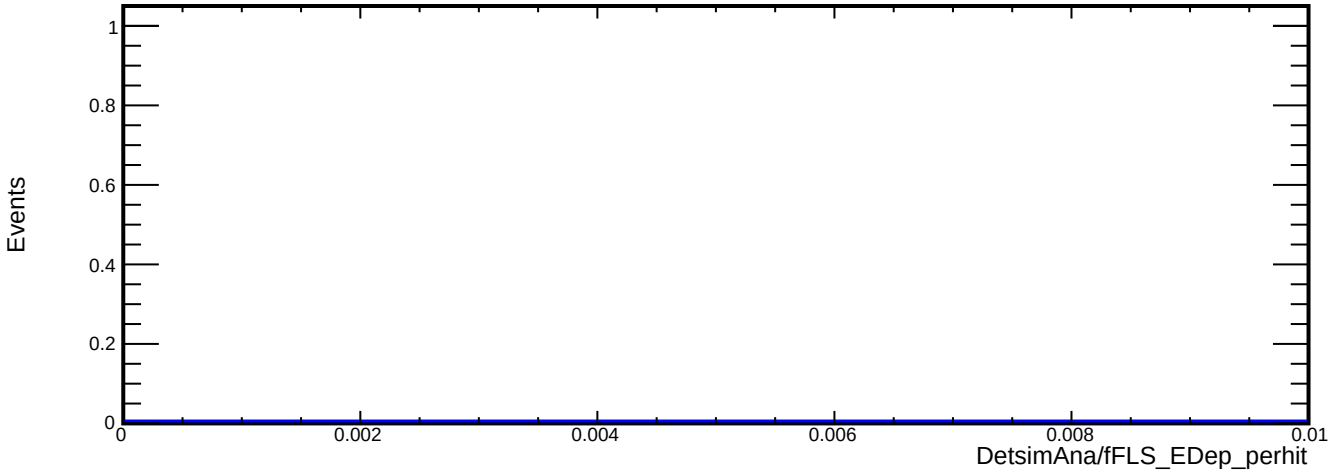

After MCTruth
Events
1
0.8
0.6
0.4
0.2
0
0
10
20
30
40
50
DetsimAna/fNParticles_truth

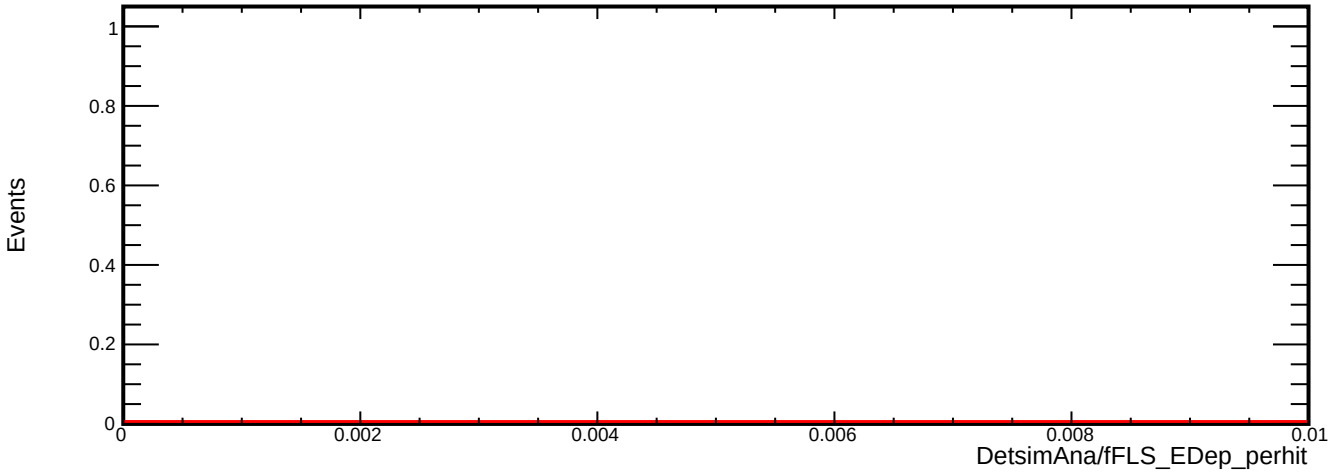

Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
DetsimAna/fFLS_hits

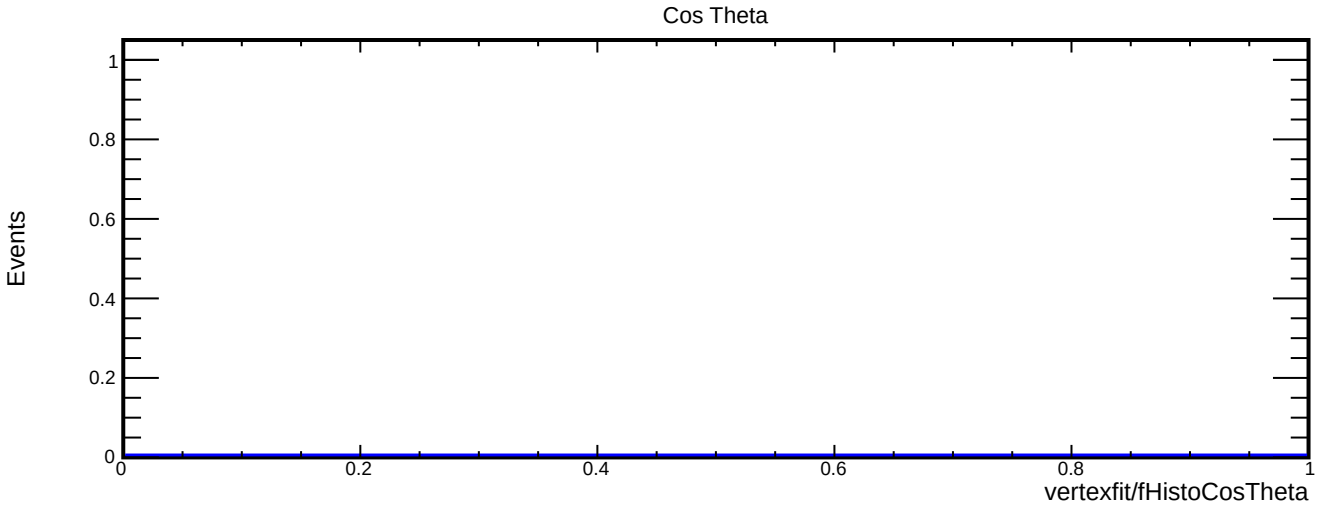

Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
DetsimAna/fFLS_hits

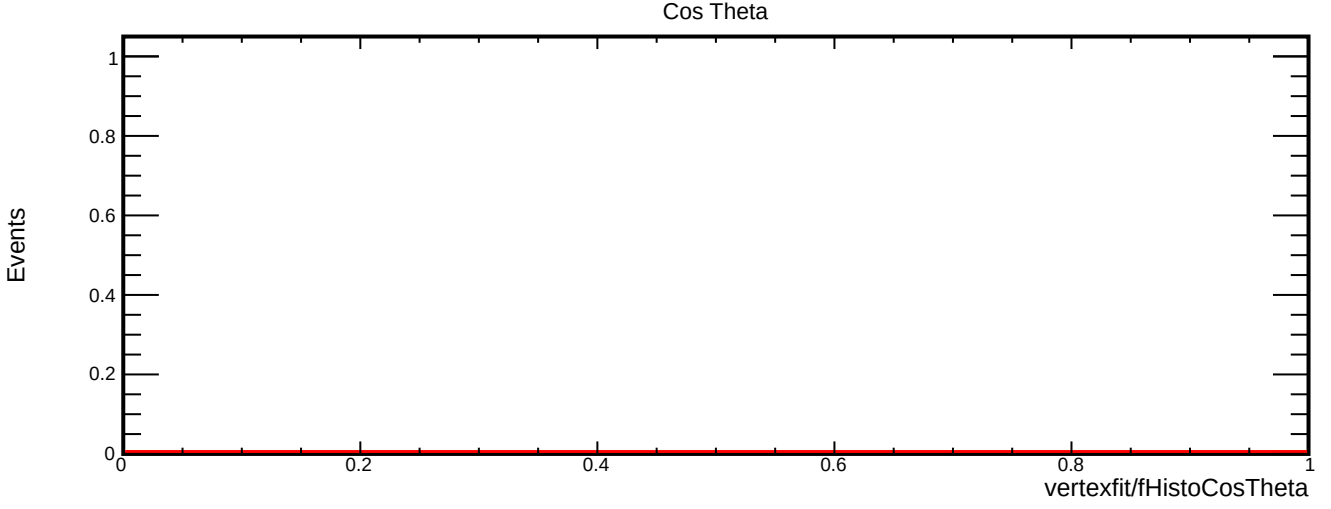

Events
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
DetsimAna/fFLS_EDep

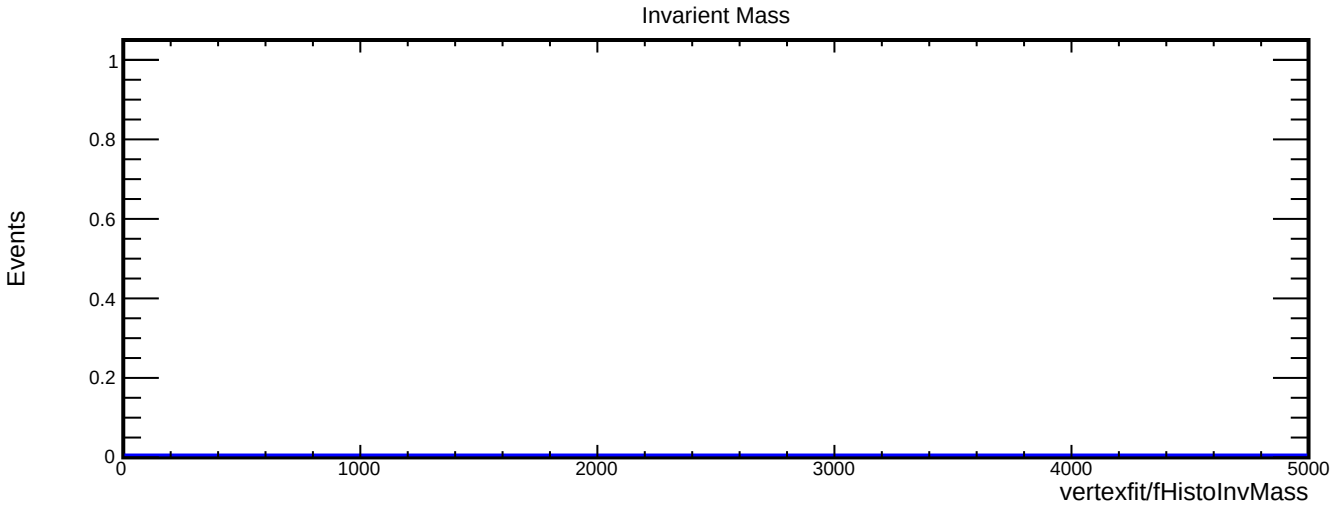

Events
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
DetsimAna/fFLS_EDep

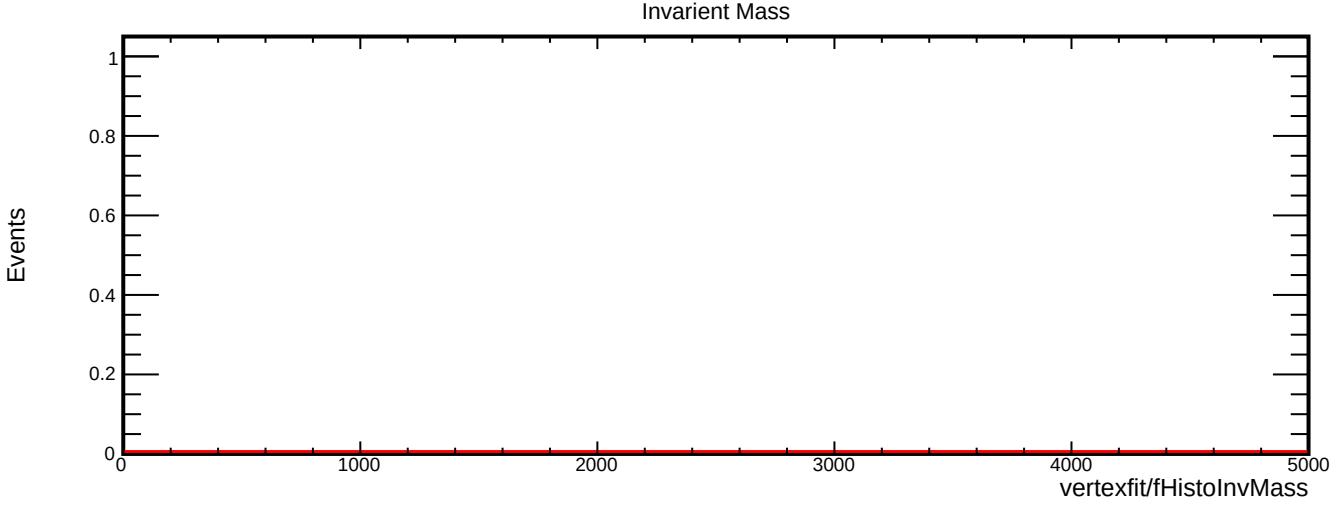

Events
1
0.8
0.6
0.4
0.2
0
0
0.002
0.004
0.006
0.008
0.01
DetsimAna/fFLS_EDep_perhit

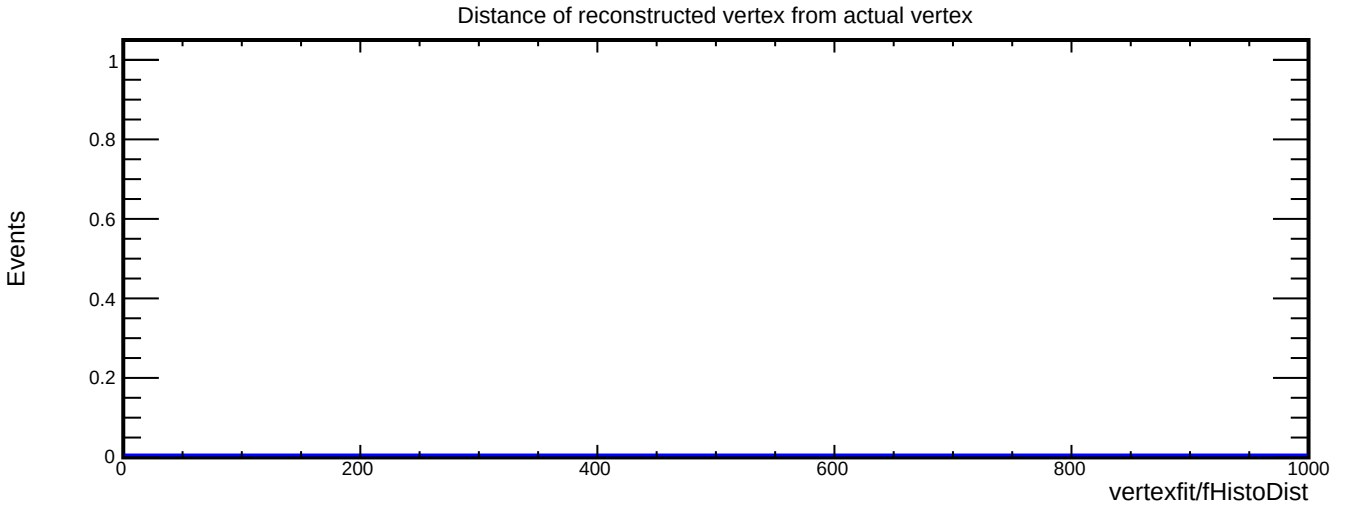

Events
1
0.8
0.6
0.4
0.2
0
0
0.002
0.004
0.006
0.008
0.01
DetsimAna/fFLS_EDep_perhit

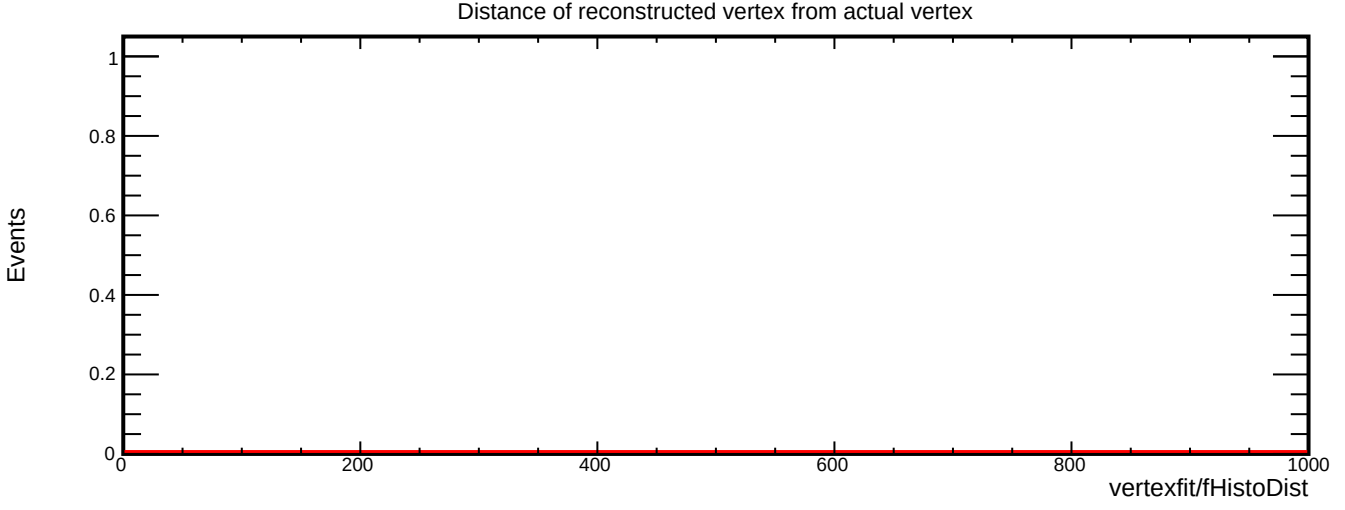

Cos Theta
Events
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
vertexfit/fHistoCosTheta

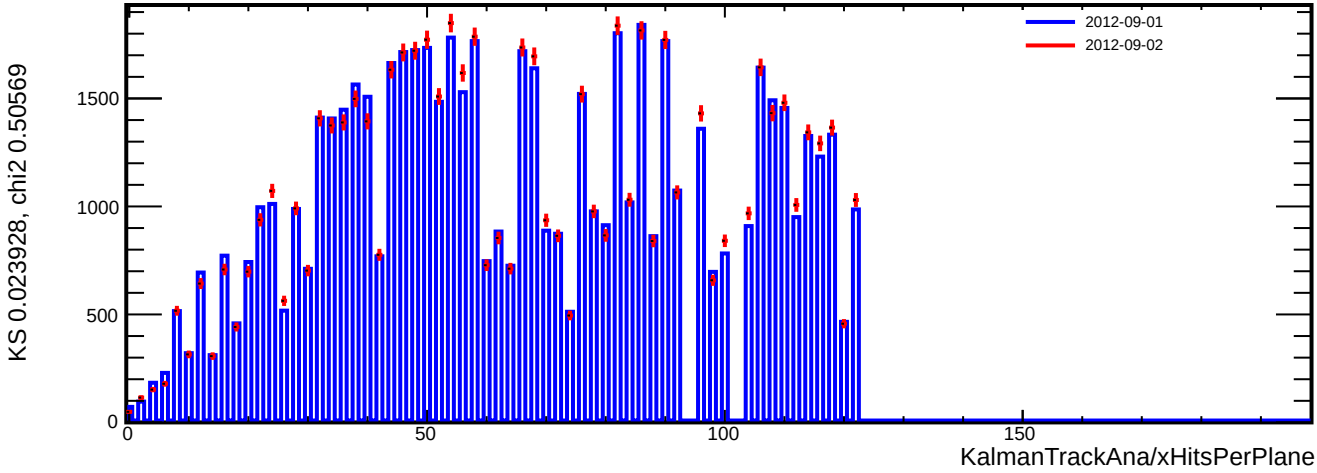

Cos Theta
Events
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
vertexfit/fHistoCosTheta

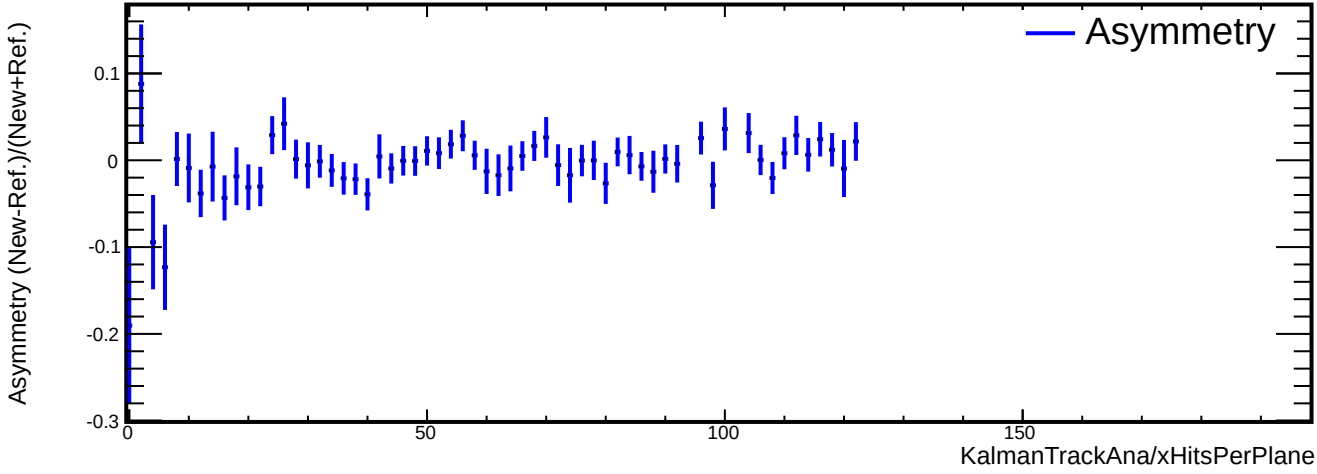

Invarient Mass
Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
5000
vertexfit/fHistoInvMass

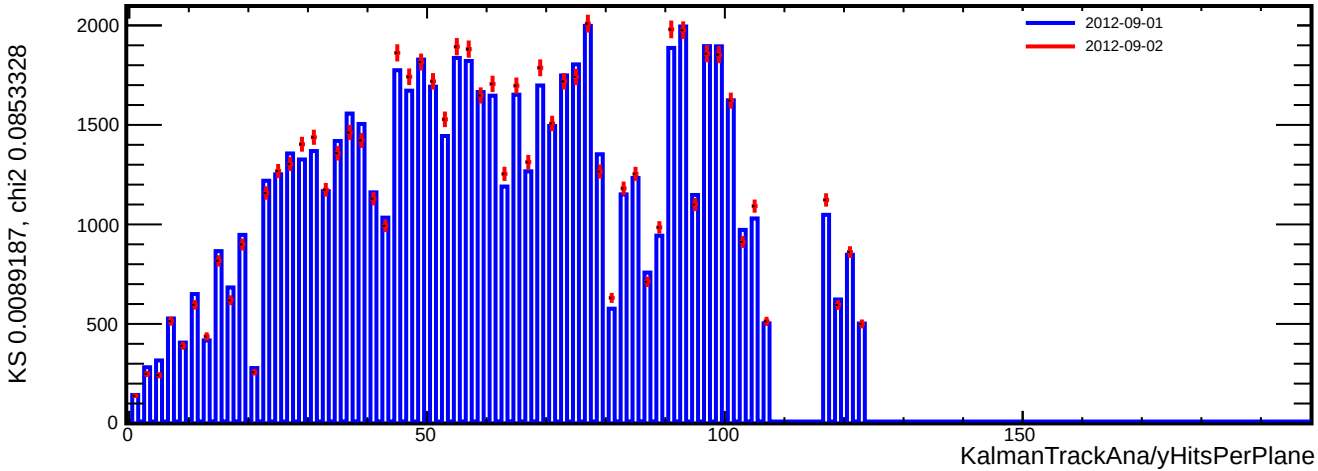

Invarient Mass
Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
5000
vertexfit/fHistoInvMass

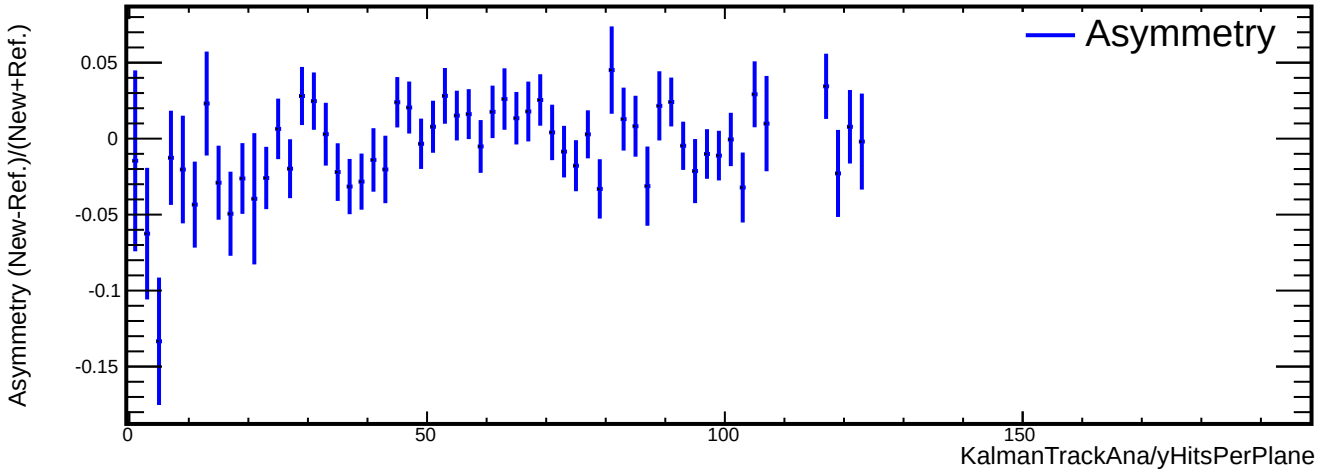

Distance of reconstructed vertex from actual vertex
Events
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
vertexfit/fHistoDist

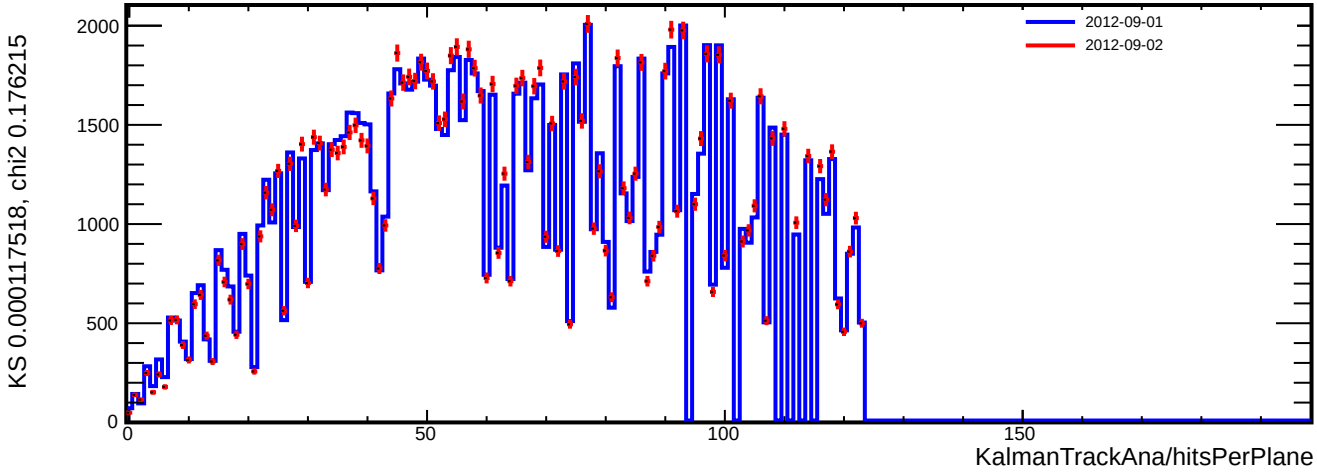

Distance of reconstructed vertex from actual vertex
Events
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
vertexfit/fHistoDist

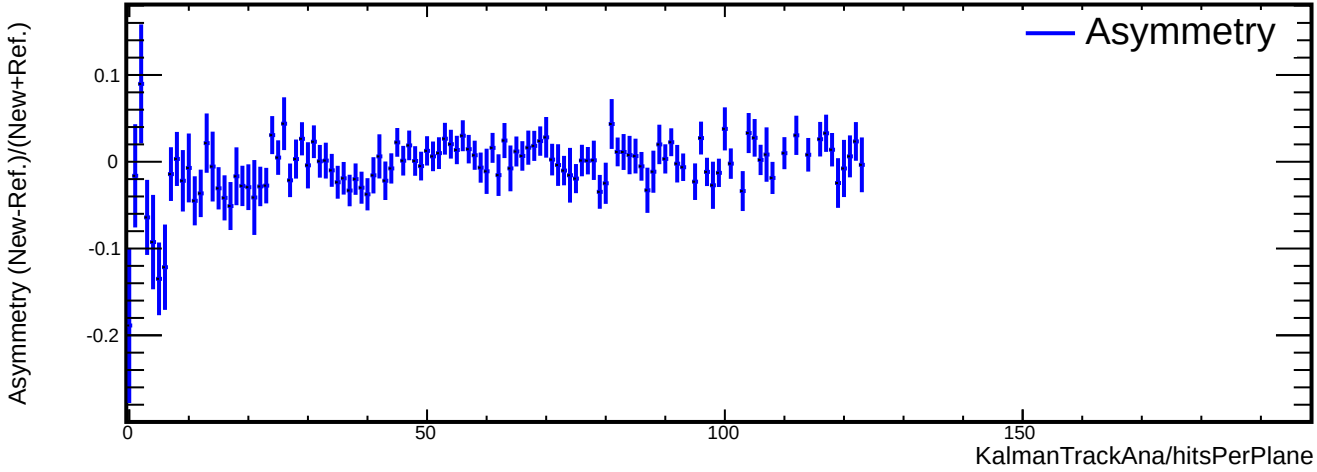

KS 0.023928, chi2 0.50569
2012-09-01
2012-09-02
0
500
1000
1500
0
50
100
150
KalmanTrackAna/xHitsPerPlane

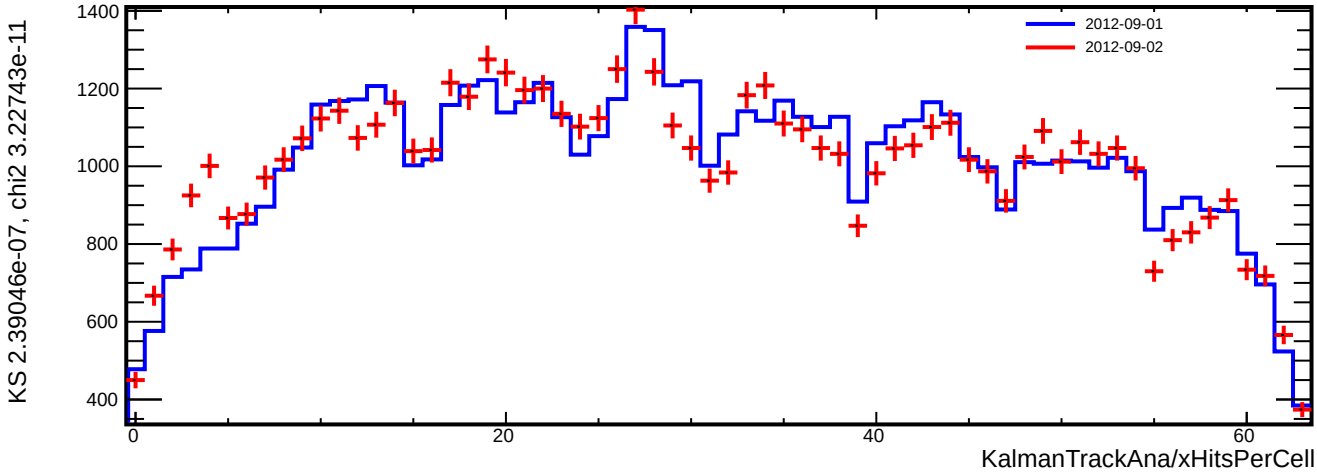

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.1
0
-0.1
-0.2
-0.3
0
50
100
150
KalmanTrackAna/xHitsPerPlane

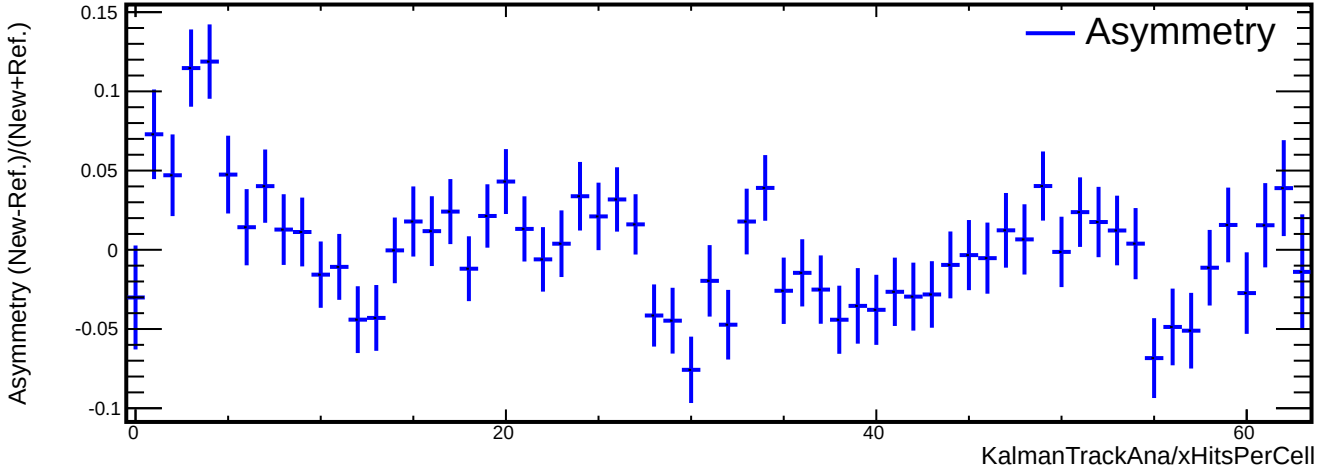

KS 0.0089187, chi2 0.0853328
2012-09-01
2012-09-02
KalmanTrackAna/yHitsPerPlane

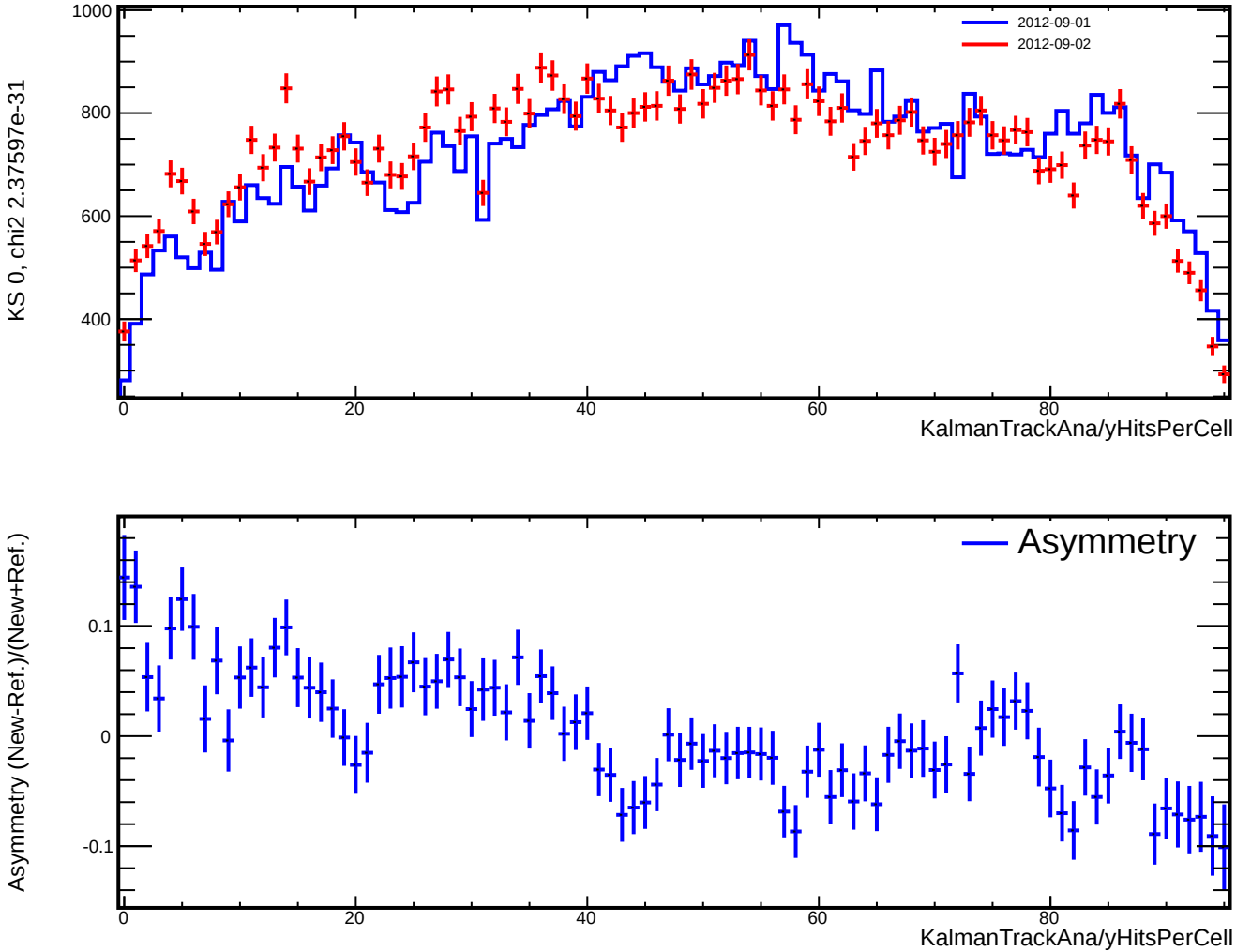

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/yHitsPerPlane

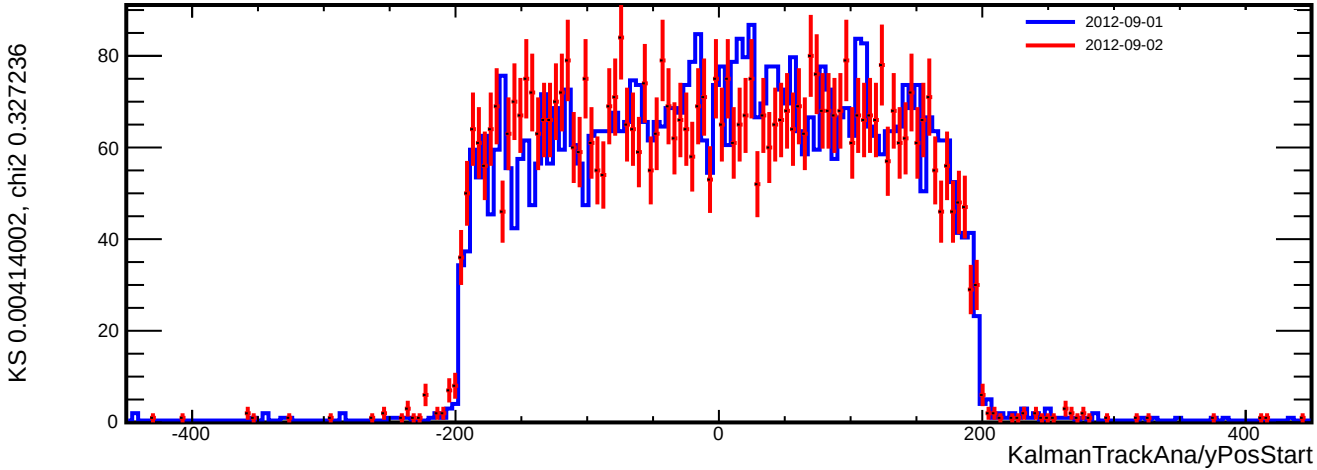

KS 0.000117518, chi2 0.176215
2012-09-01
2012-09-02
KalmanTrackAna/hitsPerPlane

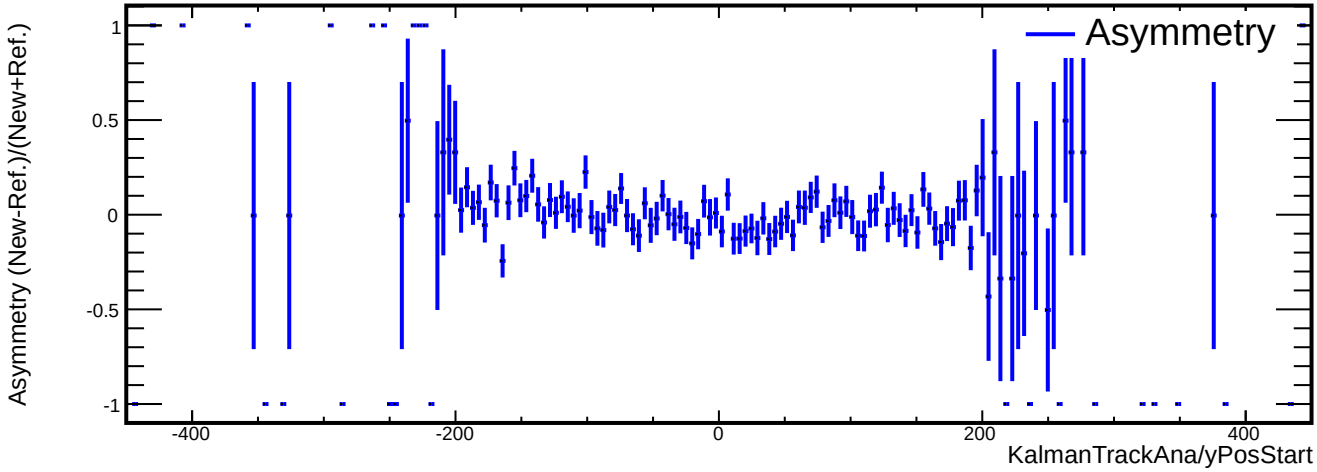

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/hitsPerPlane

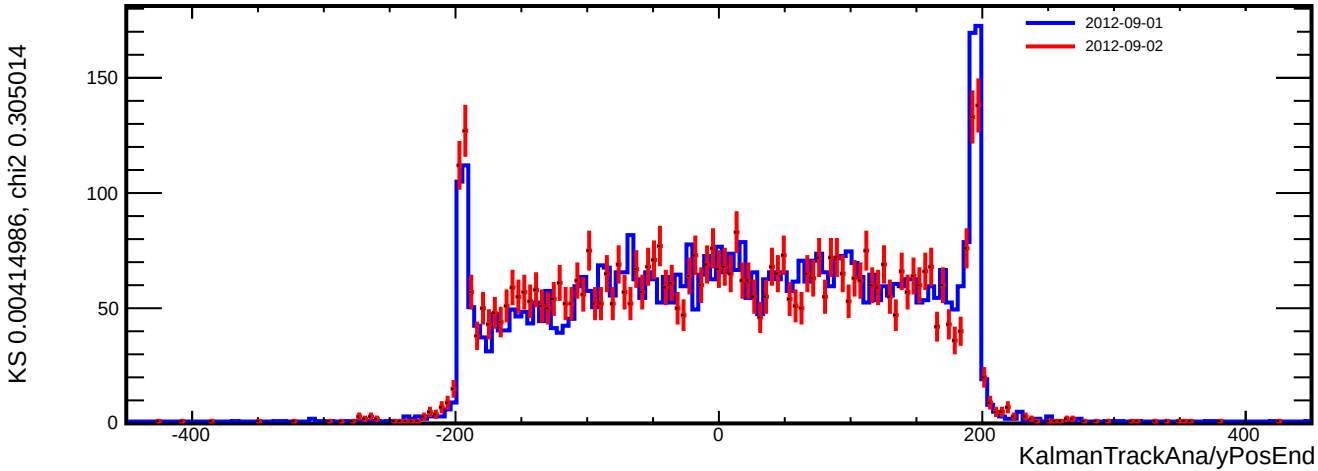

KS 2.39046e-07, chi2 3.22743e-11
1400
1200
1000
800
600
400
0
20
40
60
KalmanTrackAna/xHitsPerCell
2012-09-01
2012-09-02

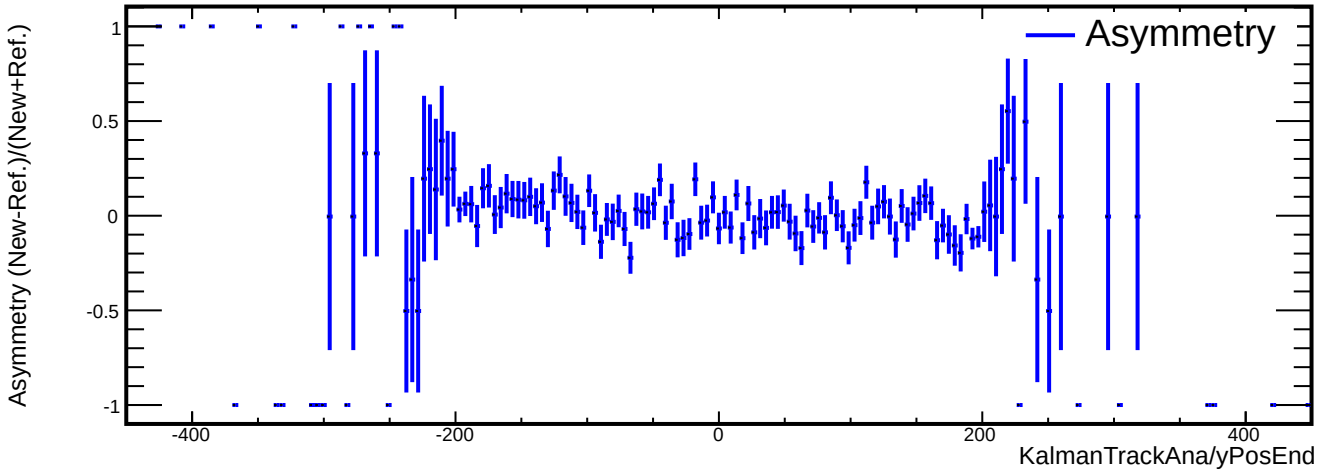

Asymmetry (New-Ref.)/(New+Ref.)
0.15
0.1
0.05
0
-0.05
-0.1
0
20
40
60
KalmanTrackAna/xHitsPerCell
Asymmetry

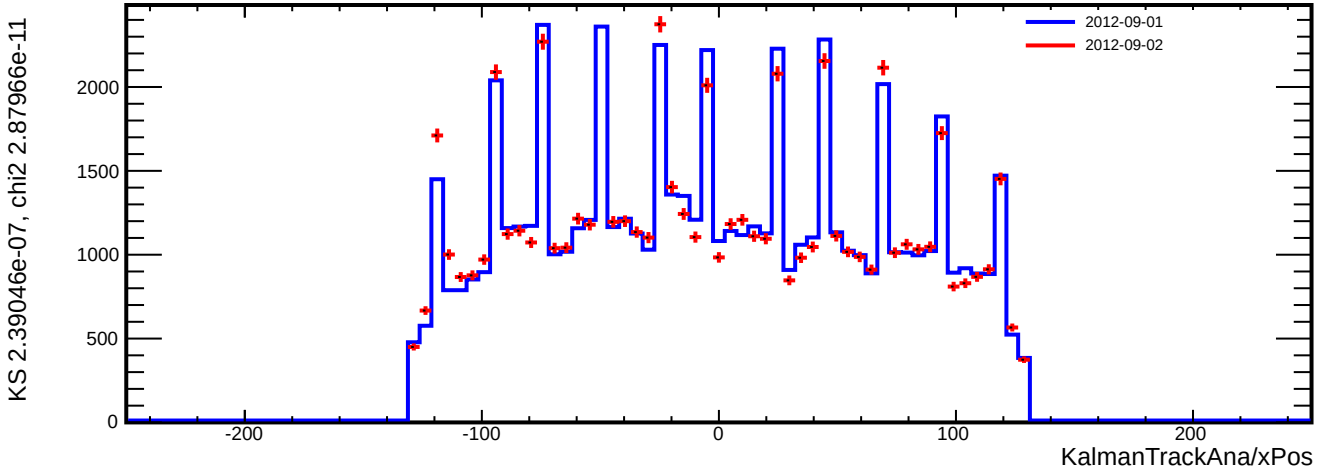

KS 0, chi2 2.37597e-31
1000
800
600
400
0
20
40
60
80
KalmanTrackAna/yHitsPerCell
2012-09-01
2012-09-02
Asymmetry (New-Ref.)/(New+Ref.)
0.1
0
-0.1
Asymmetry

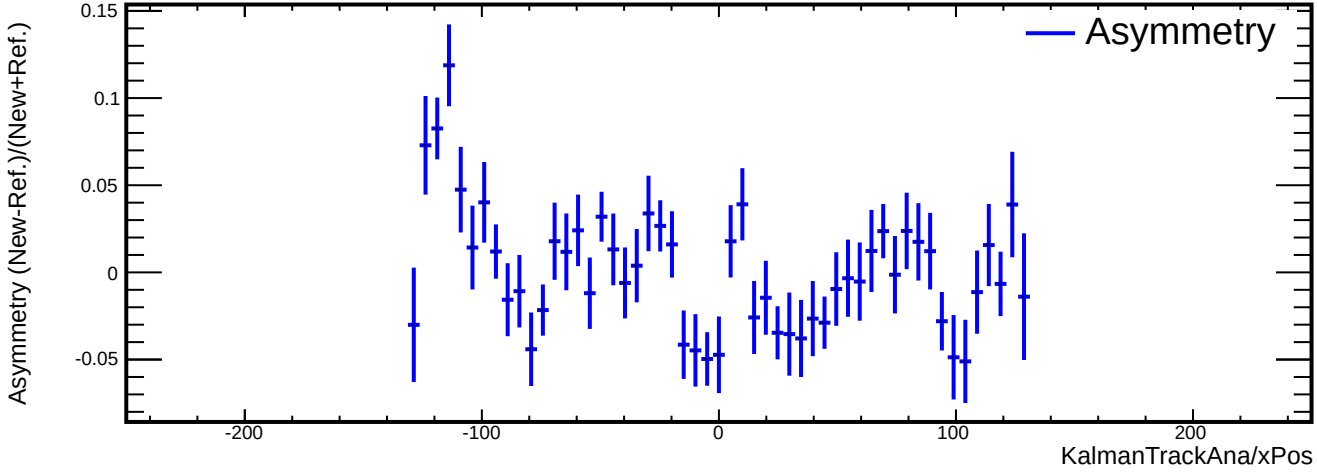

KS 0.00414002, chi2 0.327236
2012-09-01
2012-09-02
KalmanTrackAna/yPosStart

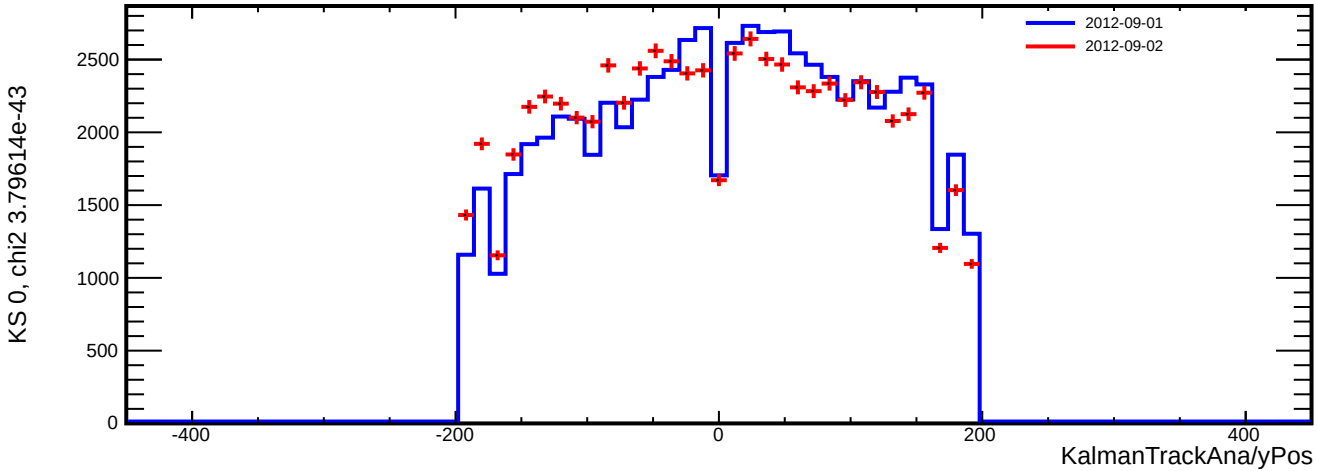

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/yPosStart

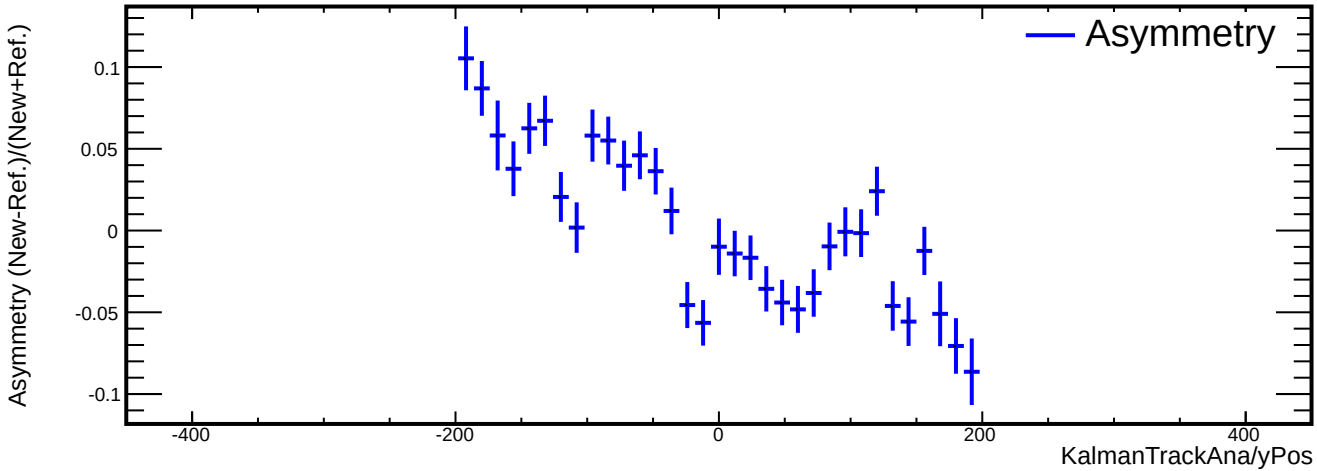

KS 0.00414986, chi2 0.305014
2012-09-01
2012-09-02
150
100
50
0
-400
-200
0
200
400
KalmanTrackAna/yPosEnd

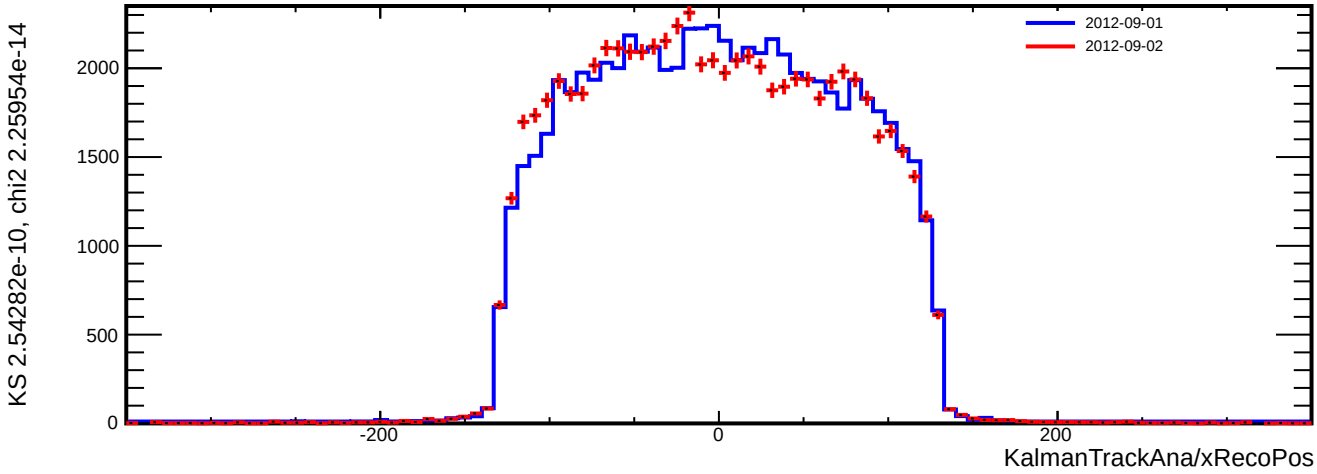

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-400
-200
0
200
400
KalmanTrackAna/yPosEnd

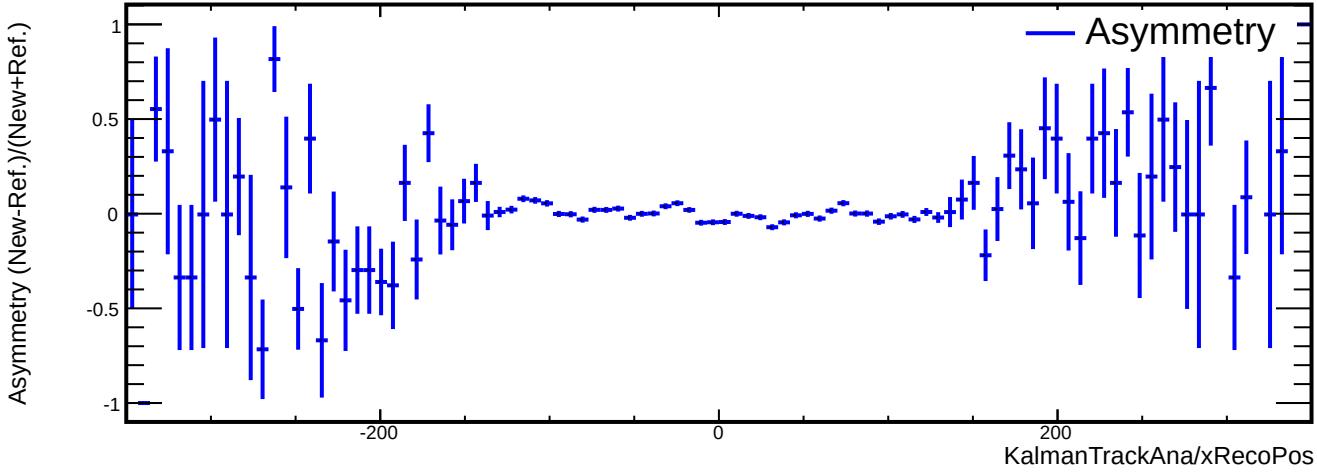

KS 2.39046e-07, chi2 2.87966e-11
2012-09-01
2012-09-02
2000
1500
1000
500
0
-200
-100
0
100
200
KalmanTrackAna/xPos

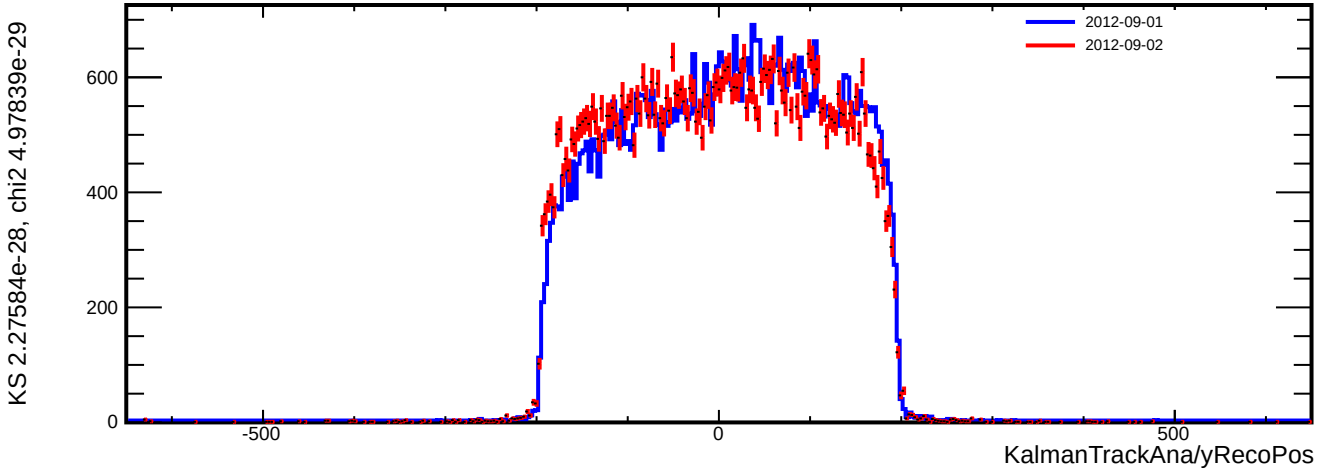

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.15
0.1
0.05
0
-0.05
-200
-100
0
100
200
KalmanTrackAna/xPos

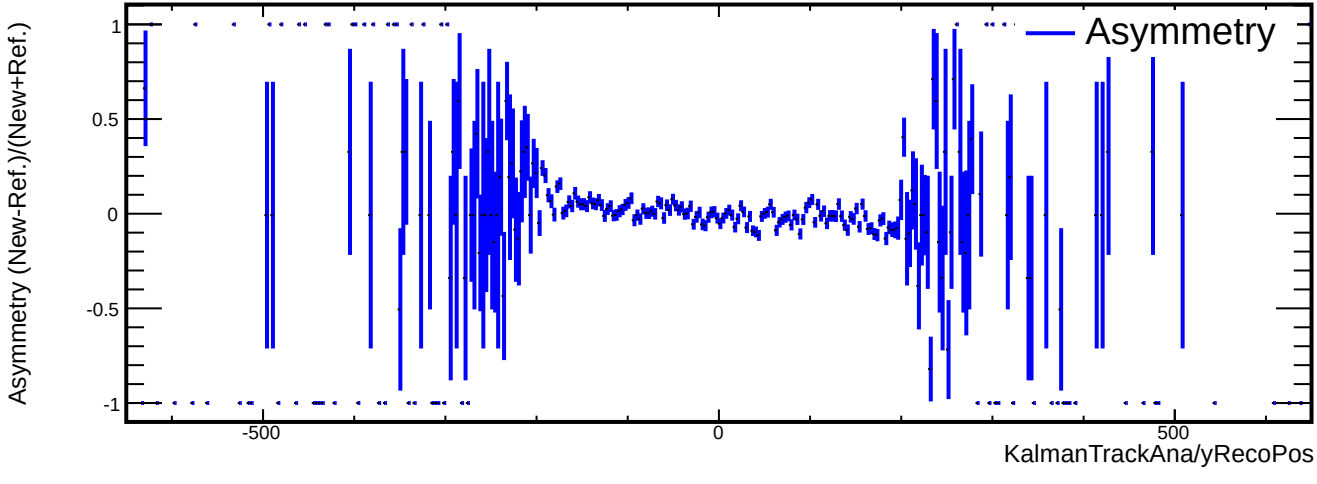

KS 0, chi2 3.79614e-43
2012-09-01
2012-09-02
2500
2000
1500
1000
500
0
-400
-200
0
200
400
KalmanTrackAna/yPos

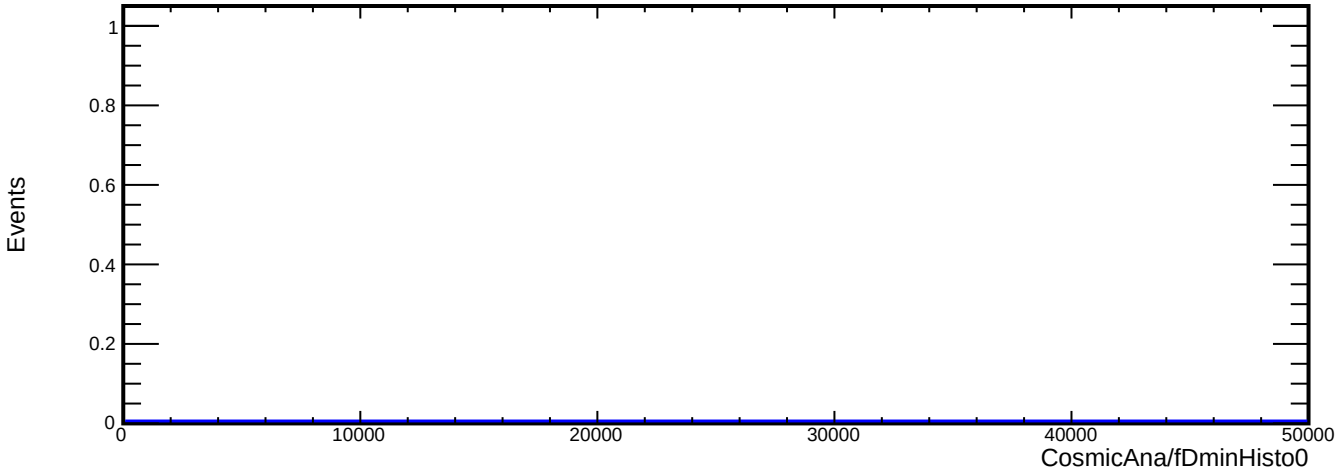

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.1
0.05
0
-0.05
-0.1
-400
-200
0
200
400
KalmanTrackAna/yPos

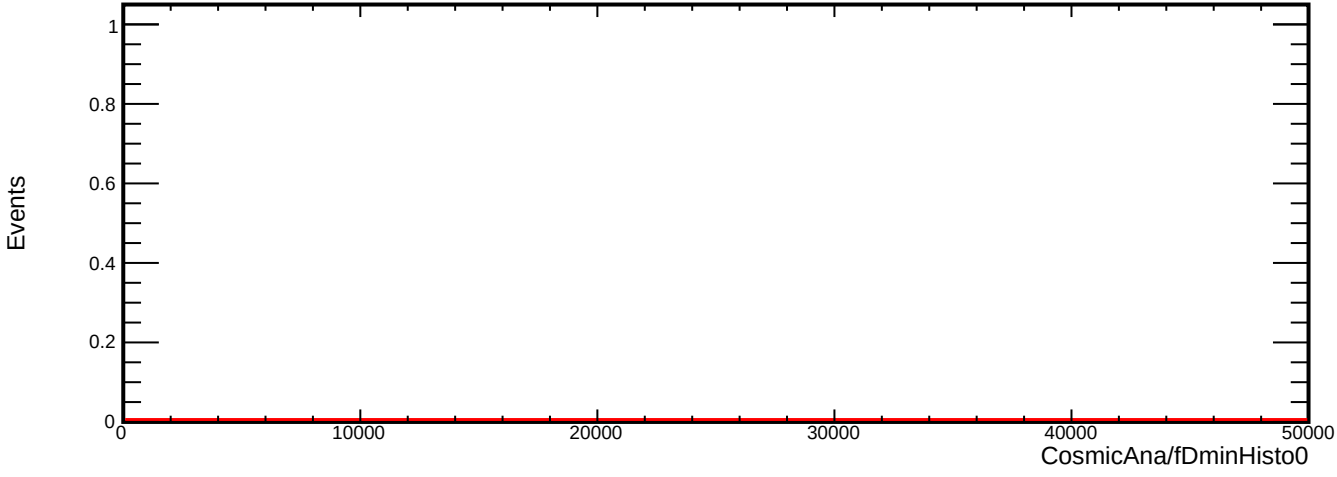

KS 2.54282e-10, chi2 2.25954e-14
2012-09-01
2012-09-02
2000
1500
1000
500
0
-200
0
200
KalmanTrackAna/xRecoPos

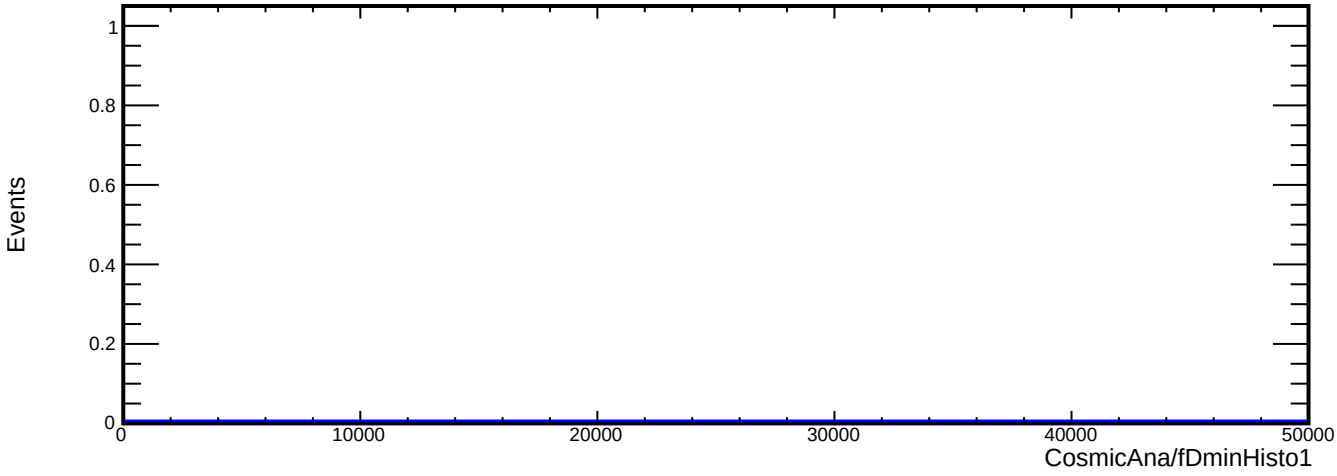

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
0
200
KalmanTrackAna/xRecoPos


KS 2.27584e-28, chi2 4.97839e-29
2012-09-01
2012-09-02
600
400
200
0
-500
0
500
KalmanTrackAna/yRecoPos


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


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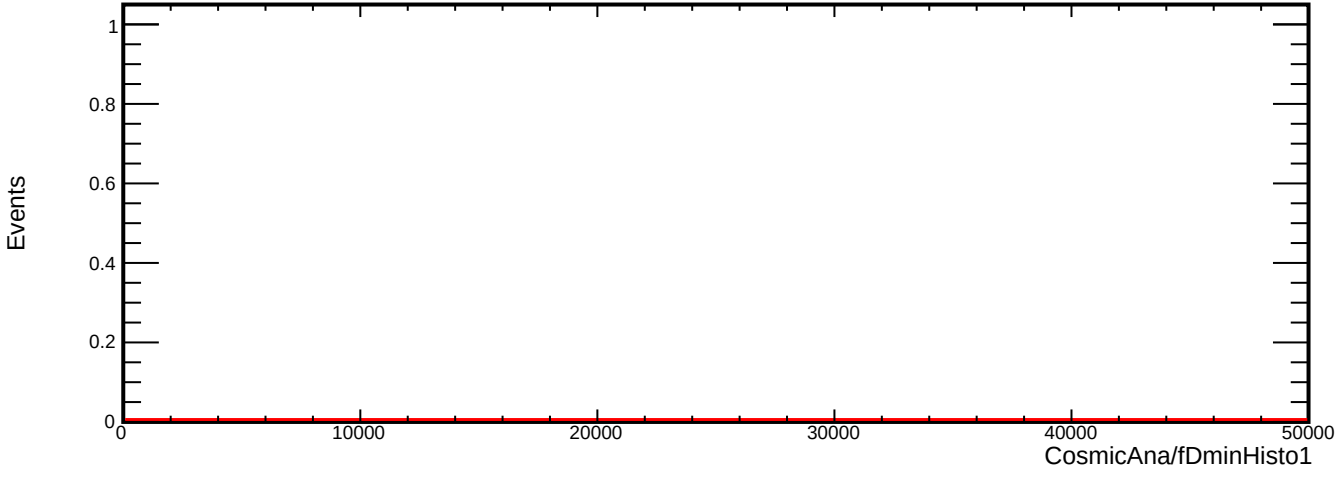
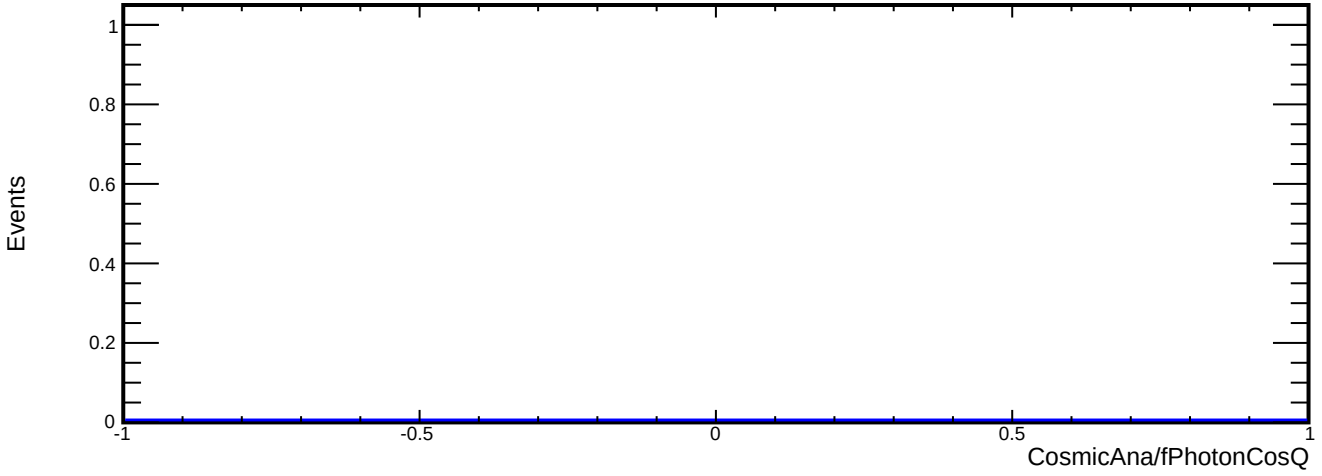
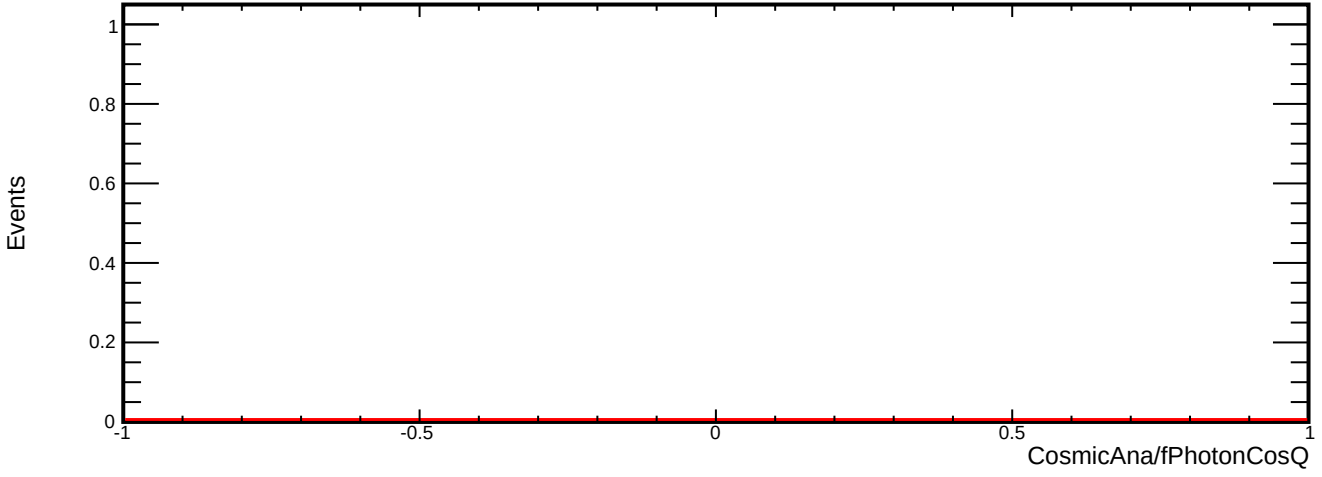
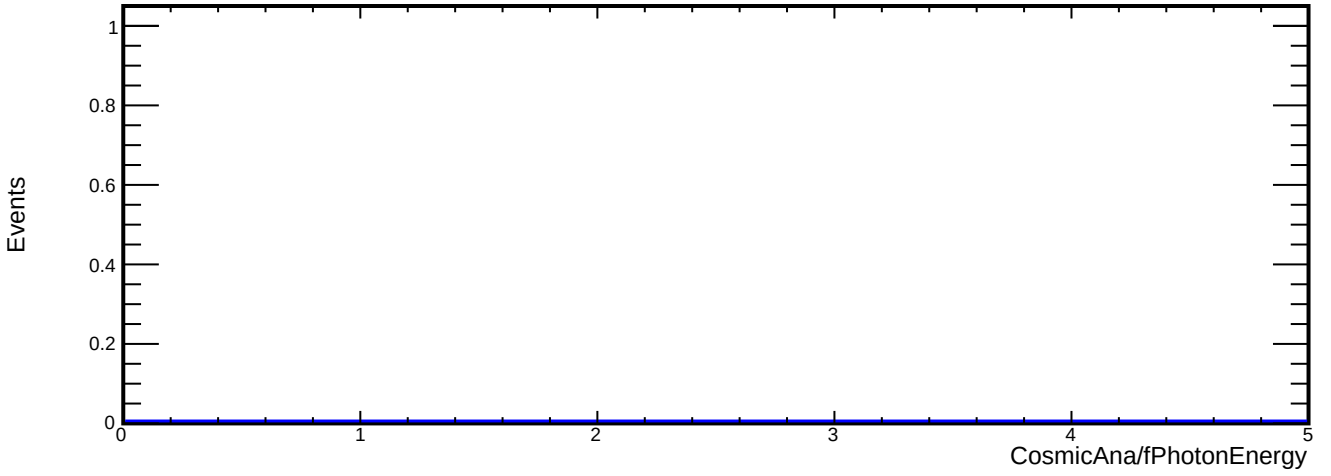
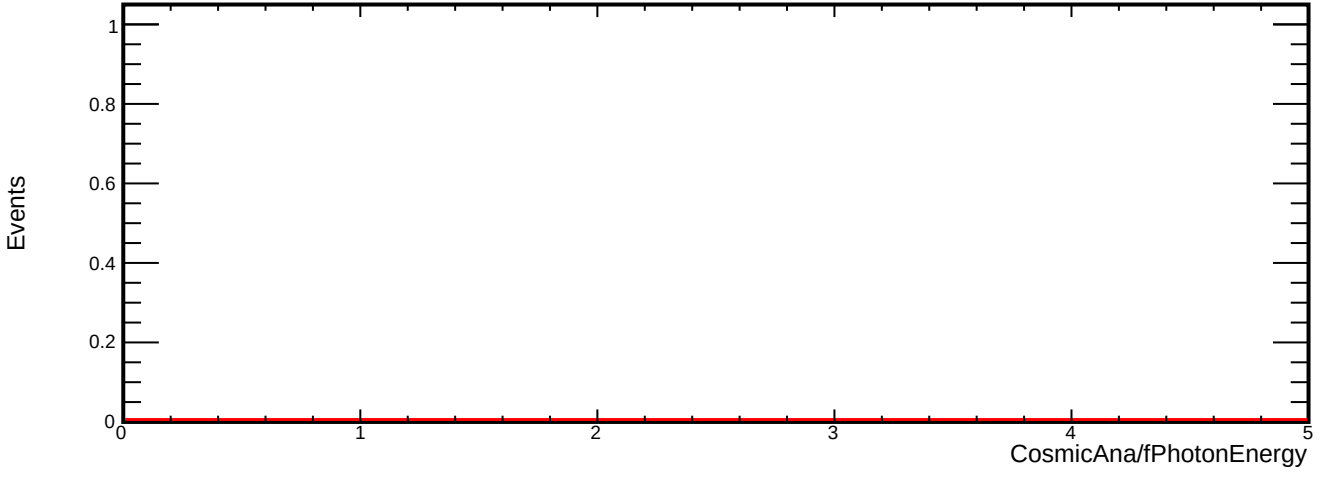
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto1

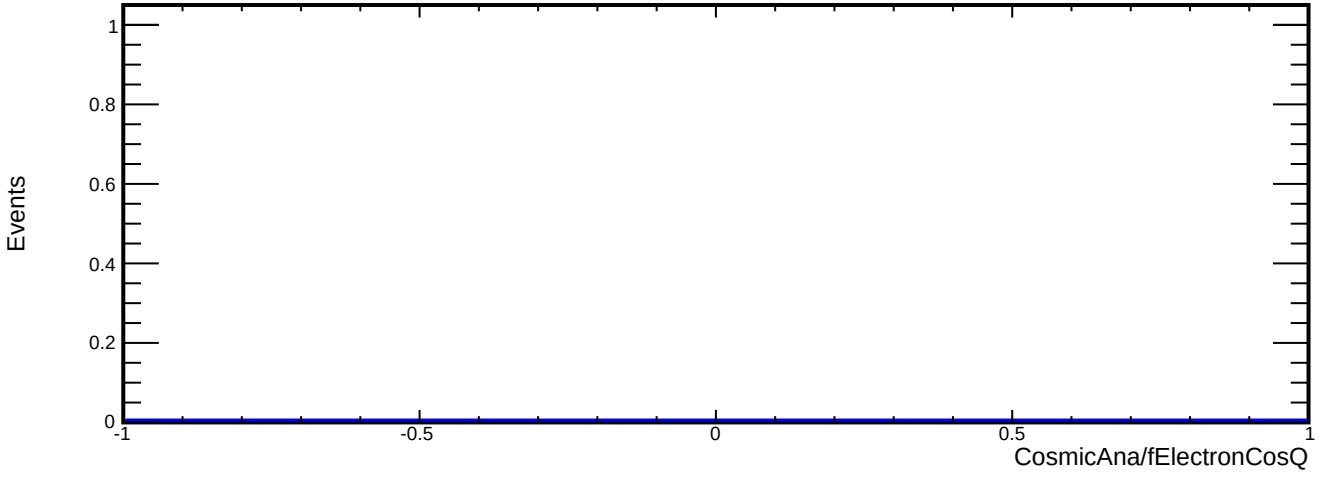

Events
1
0.8
0.6
0.4
0.2
0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto1

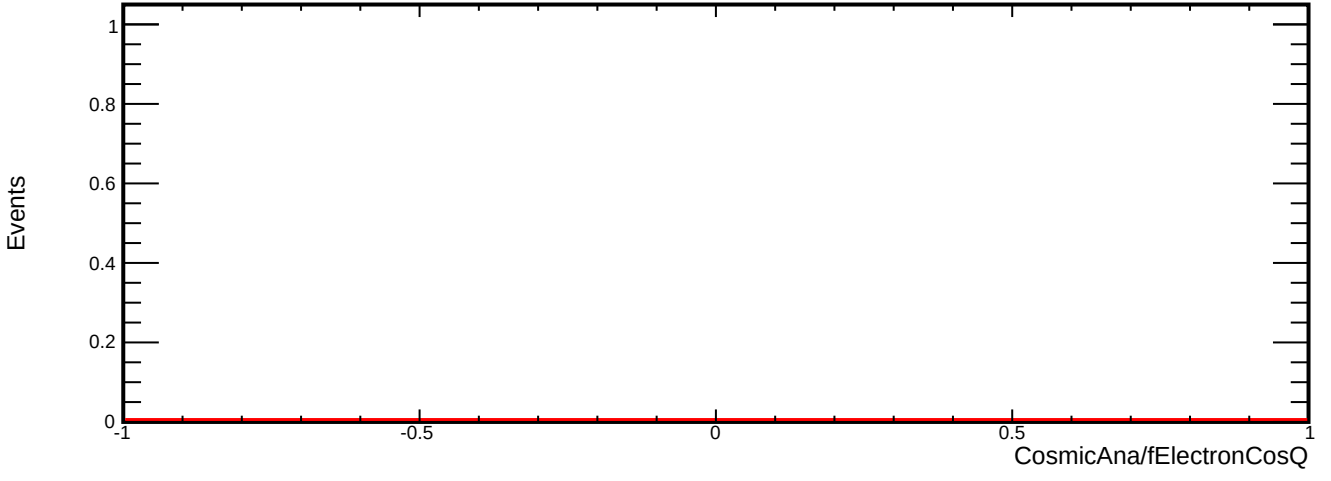

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ

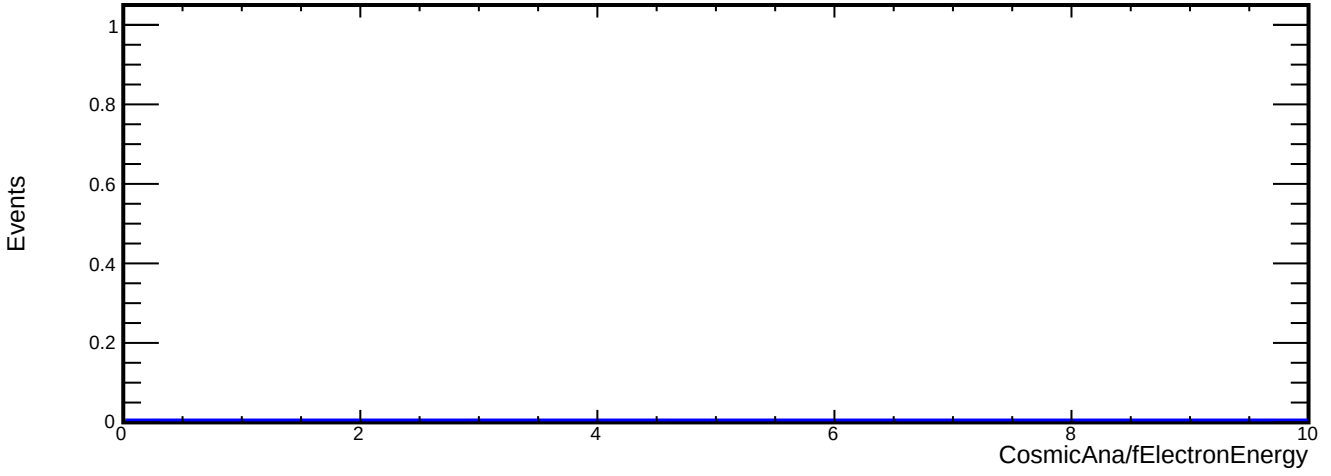

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ

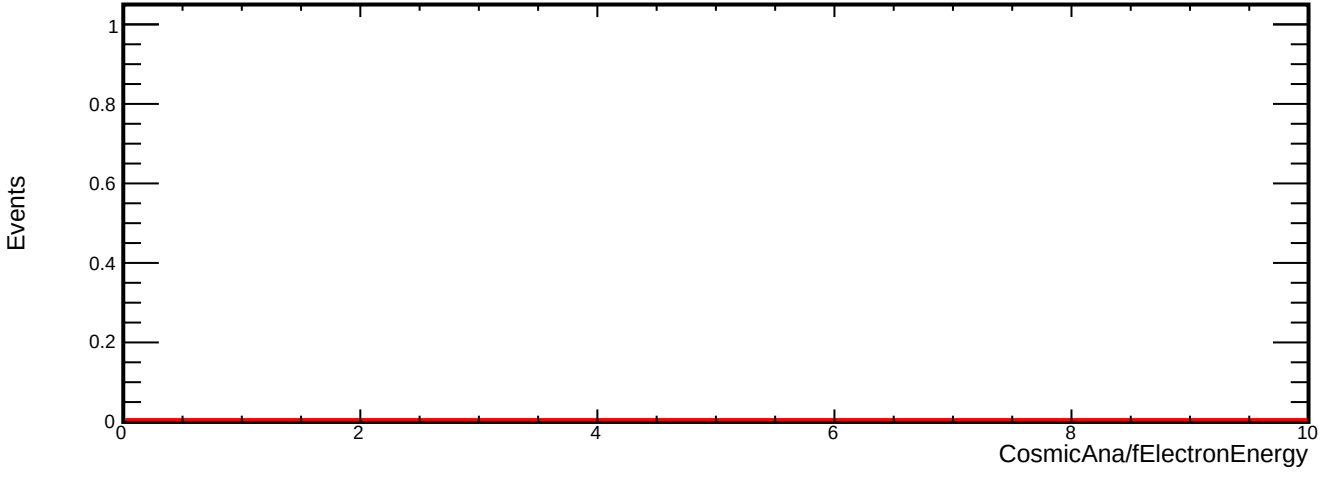

Events
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
5
CosmicAna/fPhotonEnergy

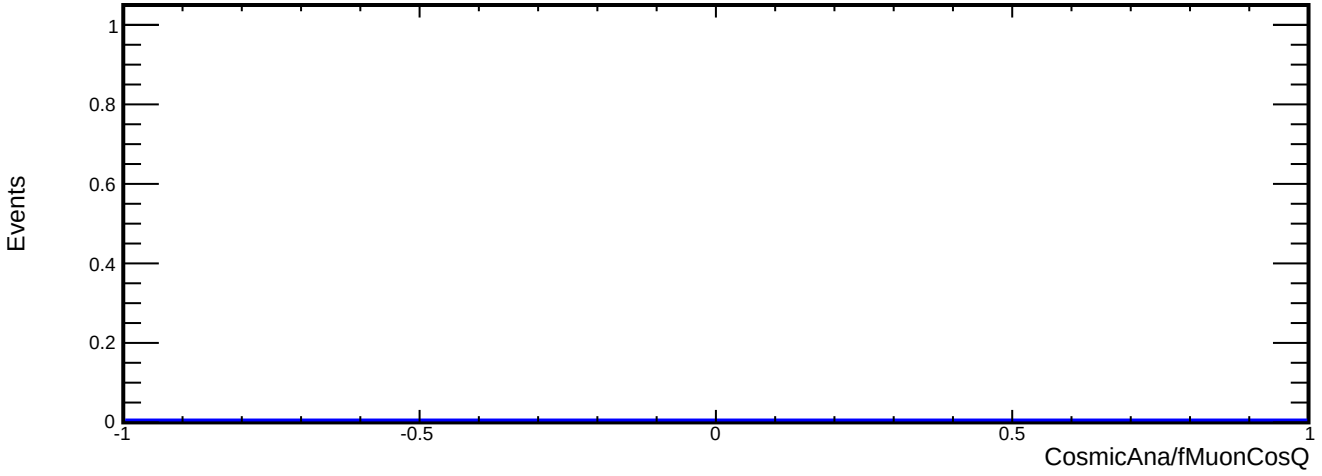

Events
1
0.8
0.6
0.4
0.2
0
0
1
2
3
4
5
CosmicAna/fPhotonEnergy

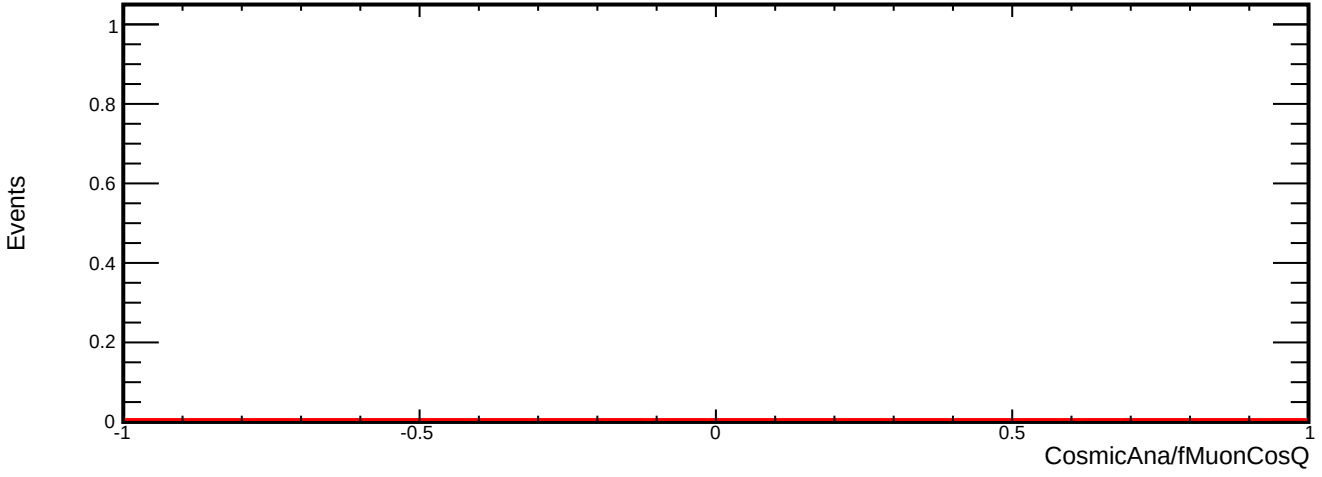

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ

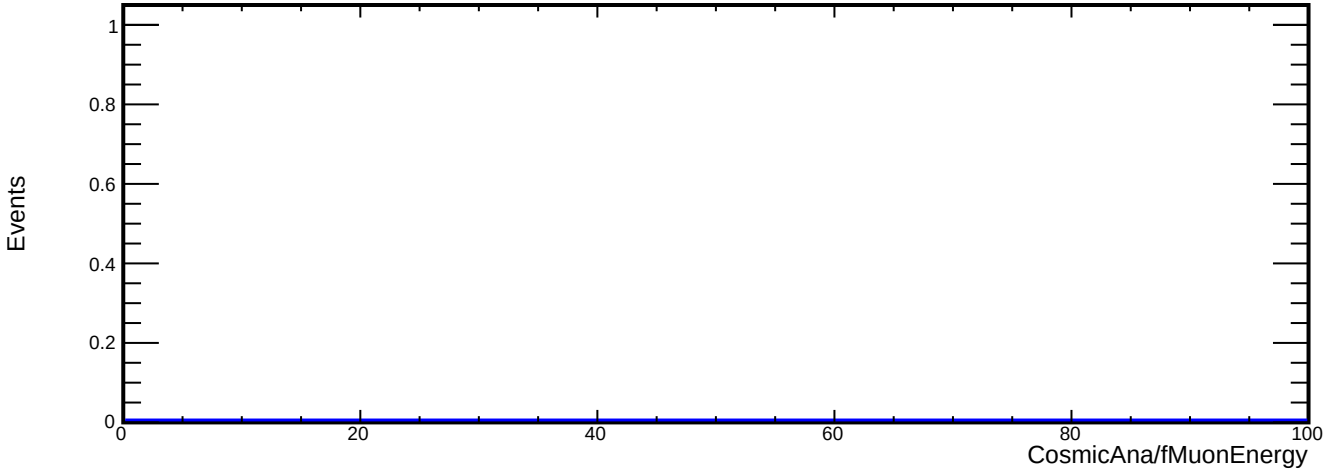

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ

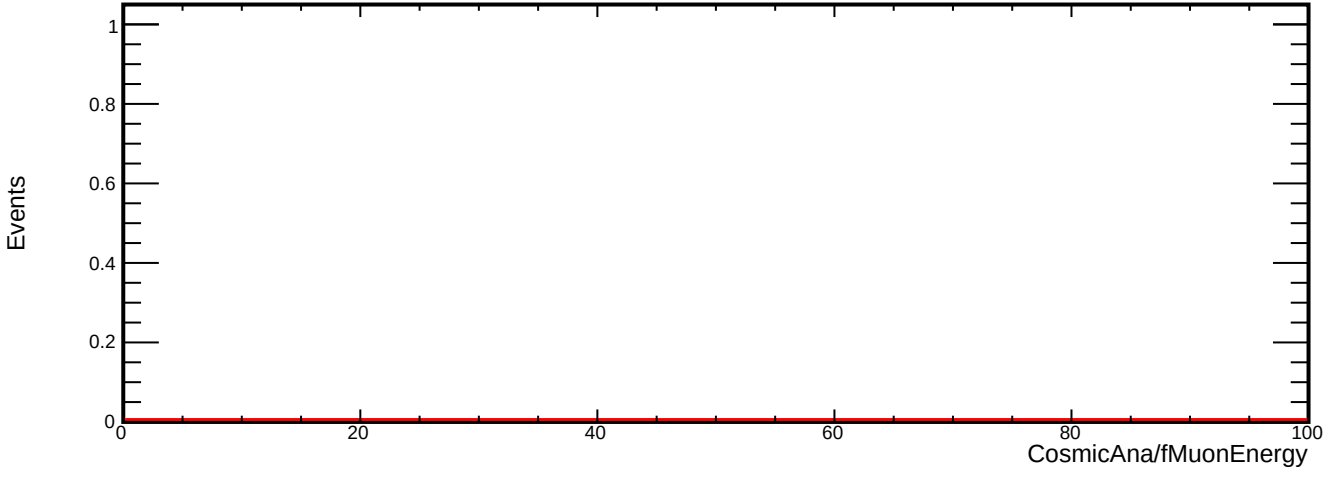

Events
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
CosmicAna/fElectronEnergy

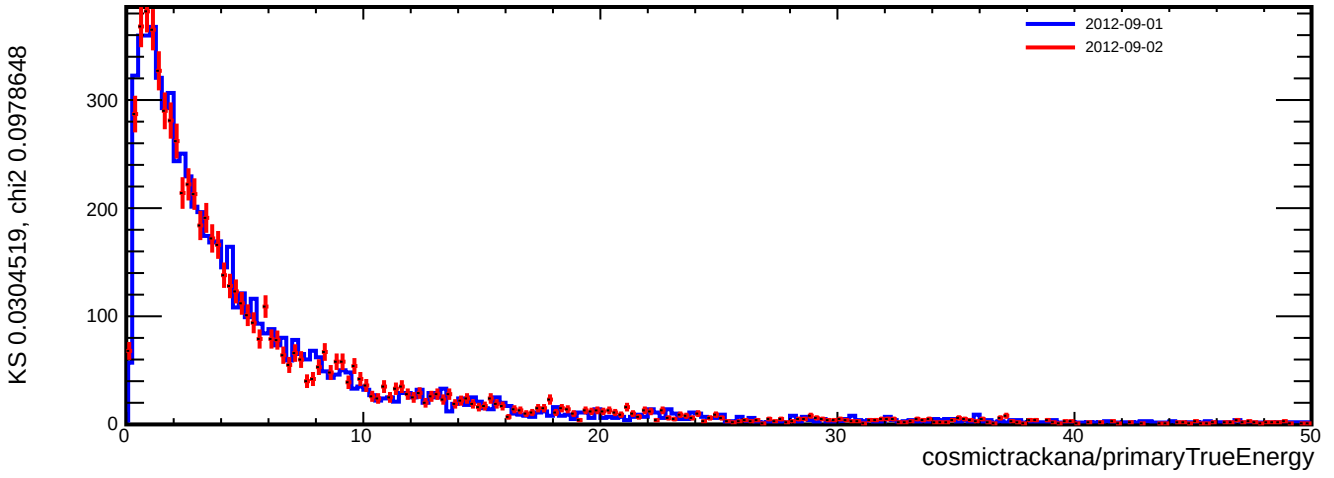

Events
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
CosmicAna/fElectronEnergy

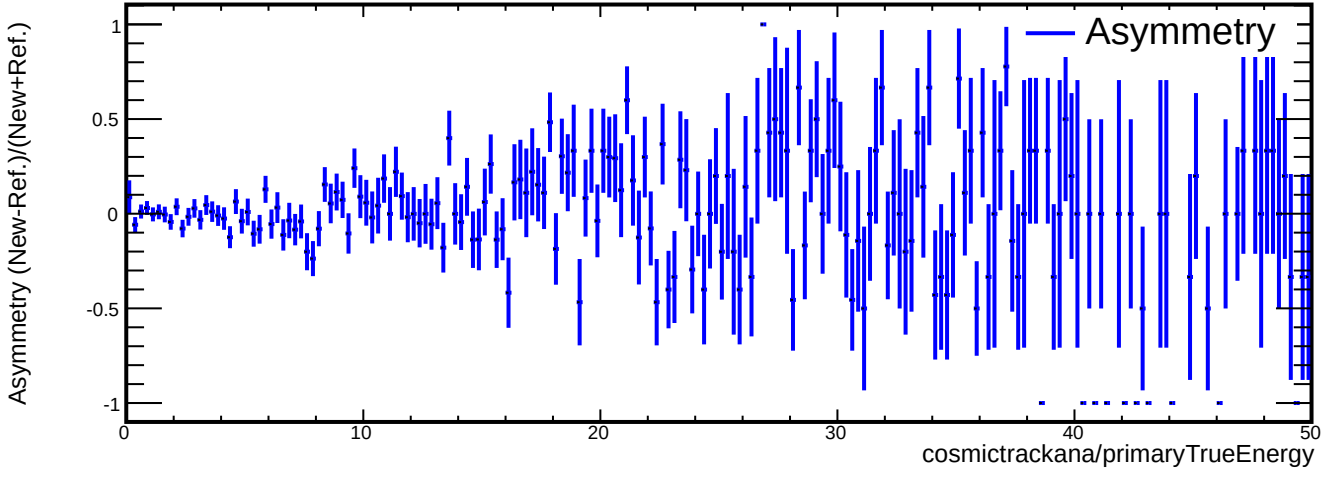

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fMuonCosQ

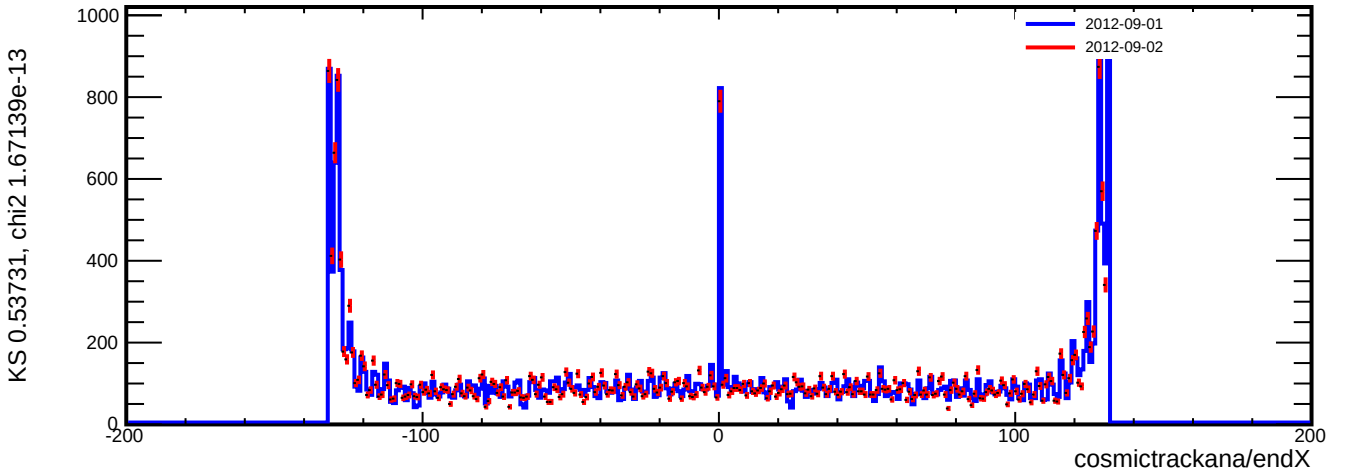

Events
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
CosmicAna/fMuonCosQ

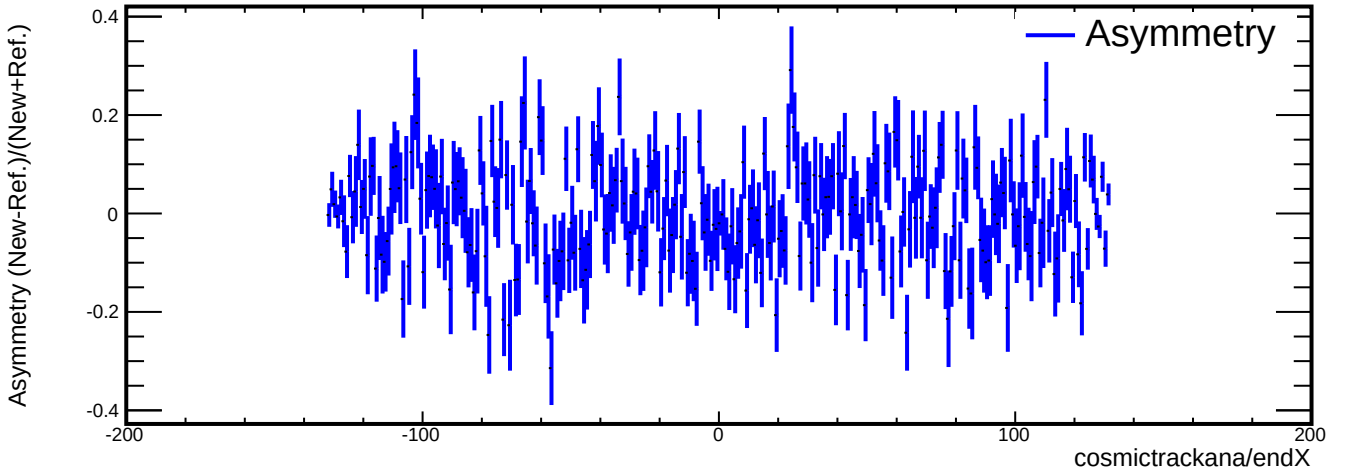

Events
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
CosmicAna/fMuonEnergy

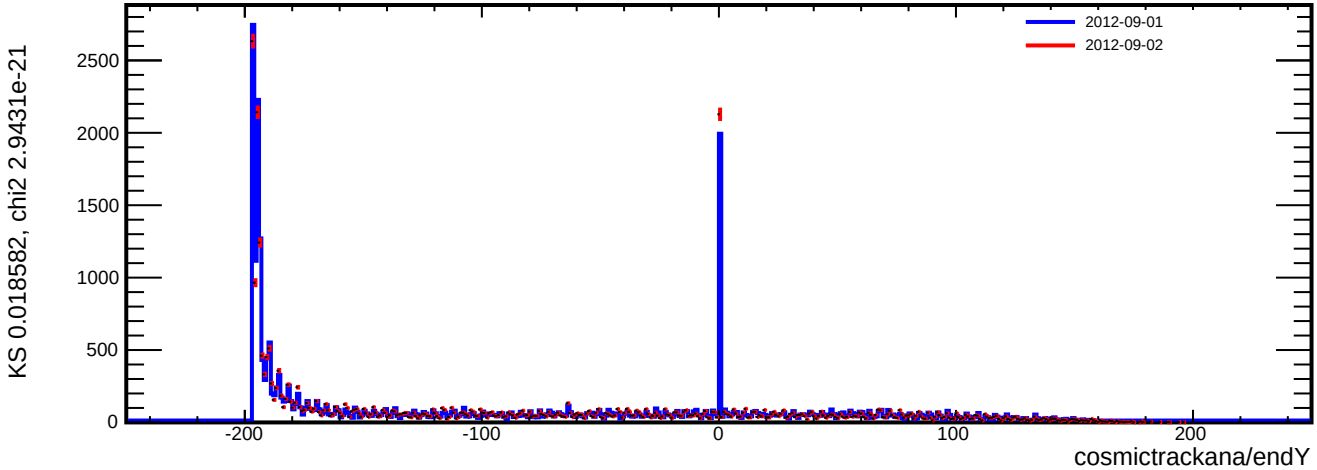

Events
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
CosmicAna/fMuonEnergy

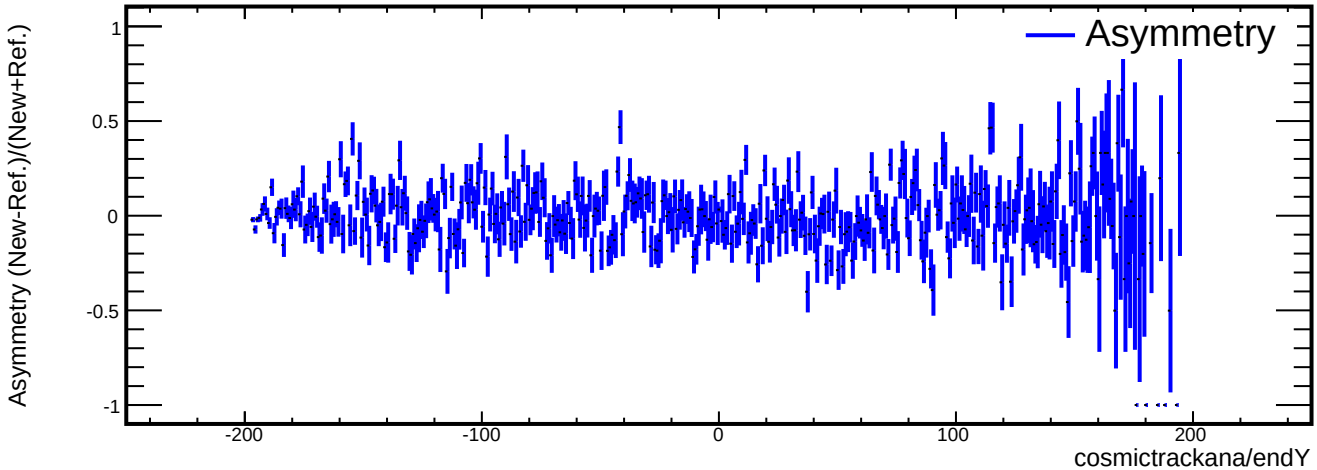

KS 0.0304519, chi2 0.0978648
2012-09-01
2012-09-02
300
200
100
0
0
10
20
30
40
50
cosmictrackana/primaryTrueEnergy

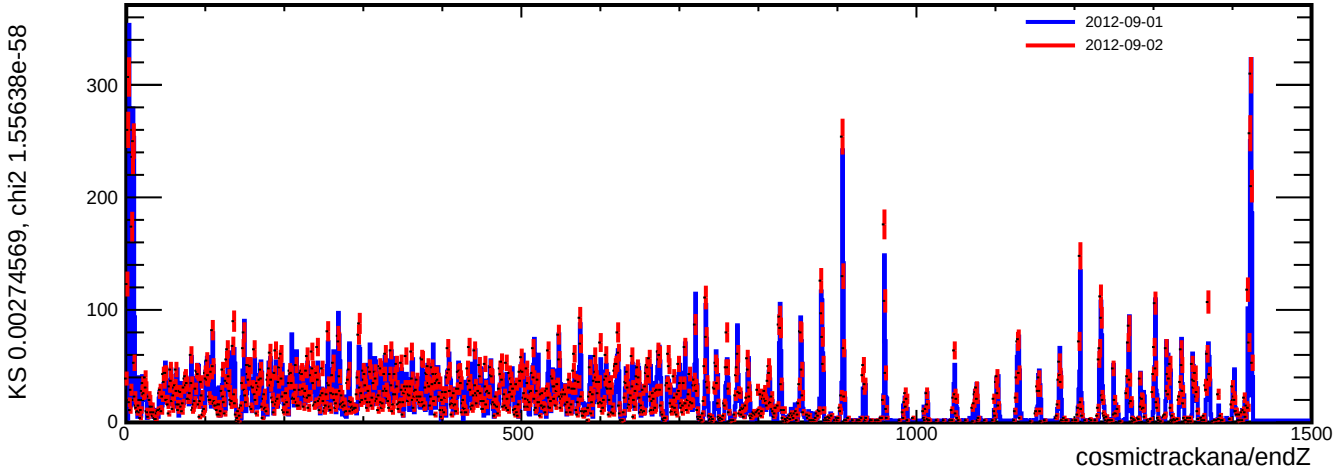

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
10
20
30
40
50
cosmictrackana/primaryTrueEnergy

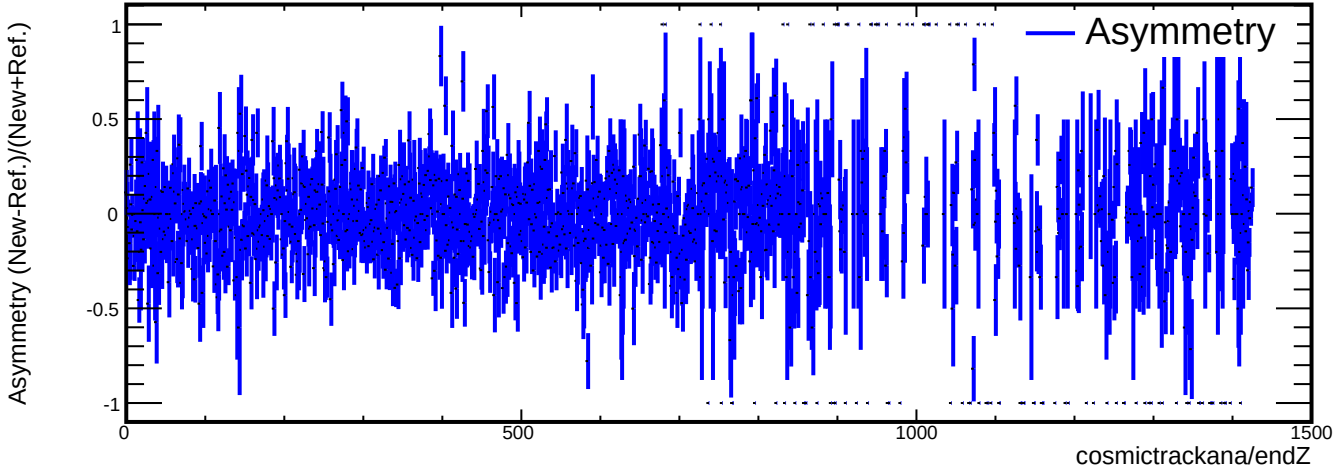

KS 0.53731, chi2 1.67139e-13
2012-09-01
2012-09-02
cosmictrackana/endX

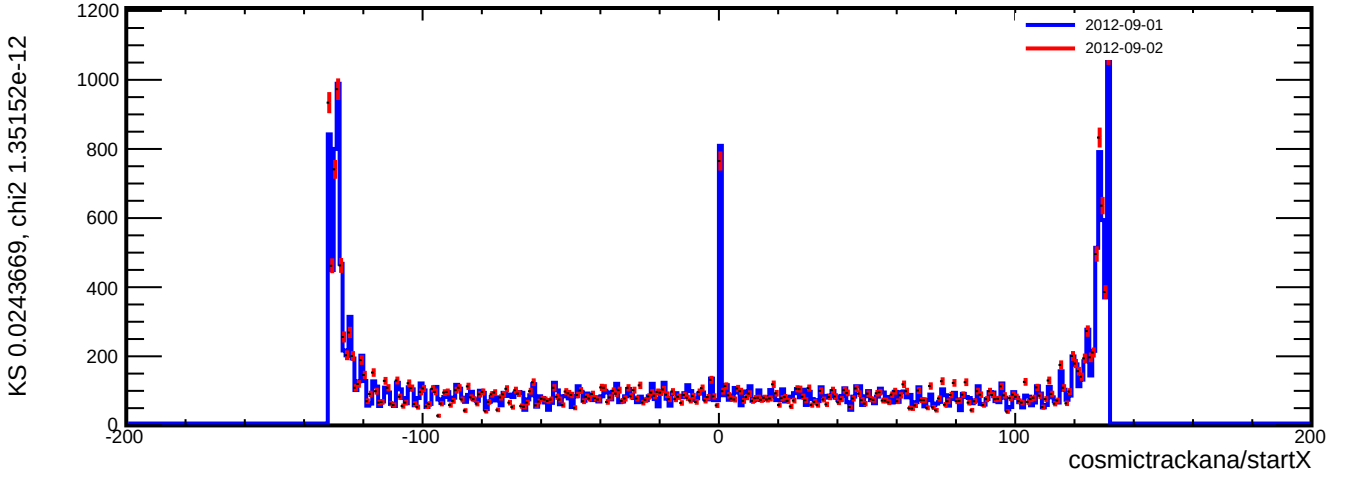

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/endX

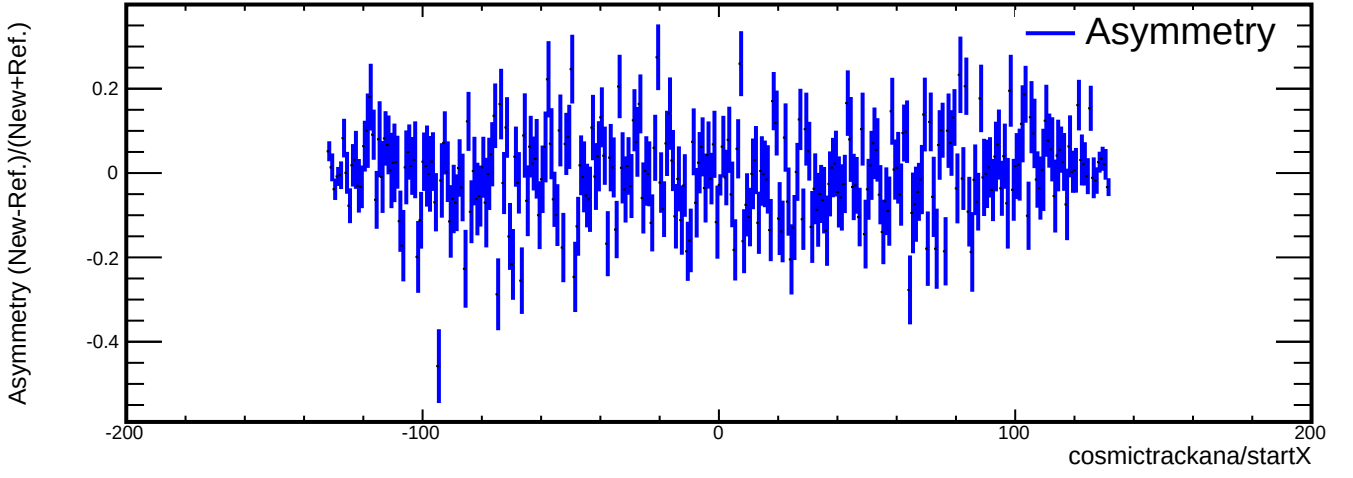

KS 0.018582, chi2 2.9431e-21
2012-09-01
2012-09-02
2500
2000
1500
1000
500
0
-200
-100
0
100
200
cosmictrackana/endY

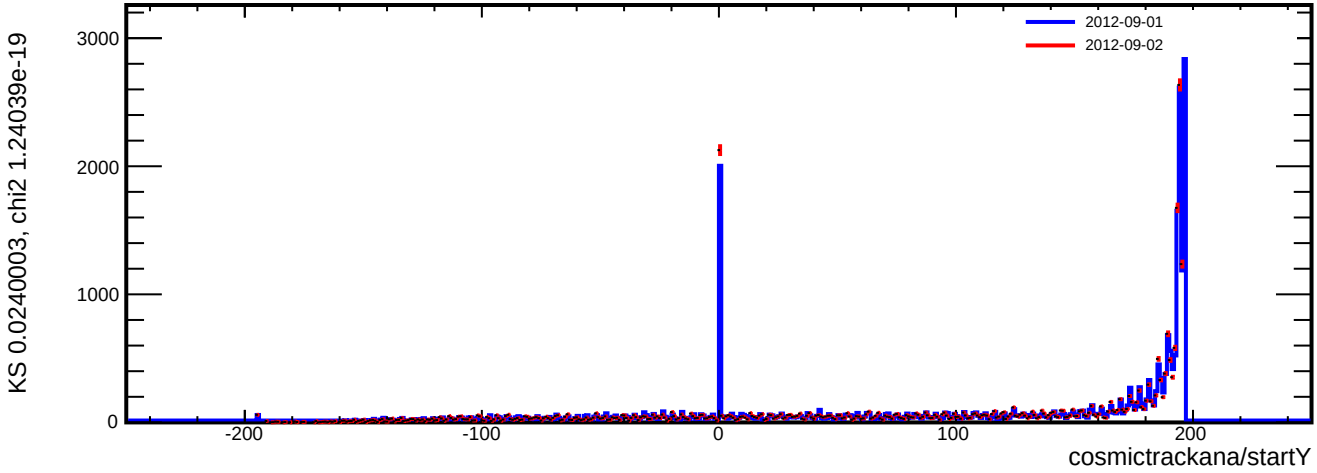

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/endY

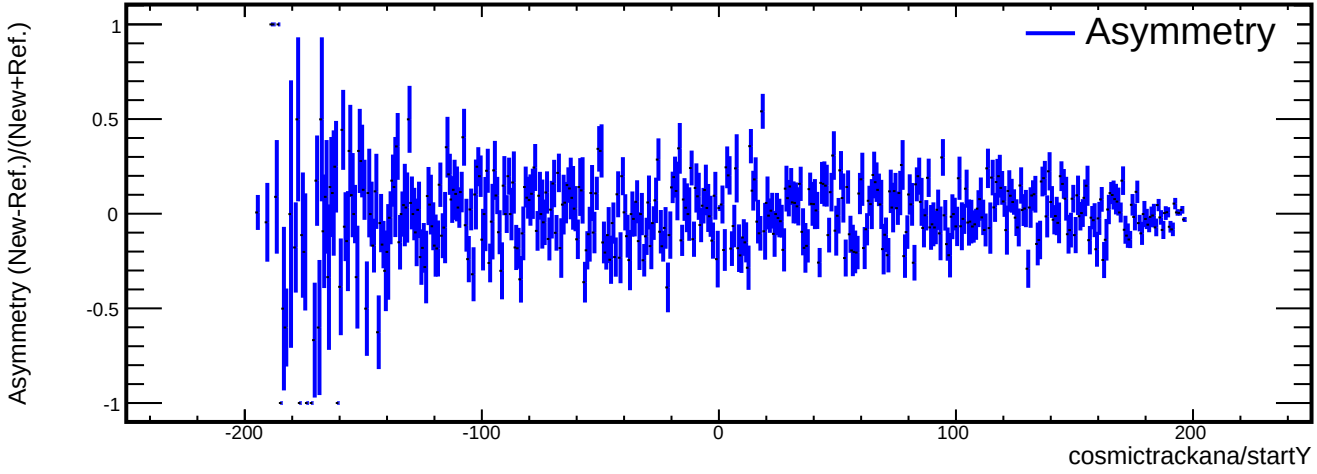

KS 0.00274569, chi2 1.55638e-58
2012-09-01
2012-09-02
300
200
100
0
0
500
1000
1500
cosmictrackana/endZ

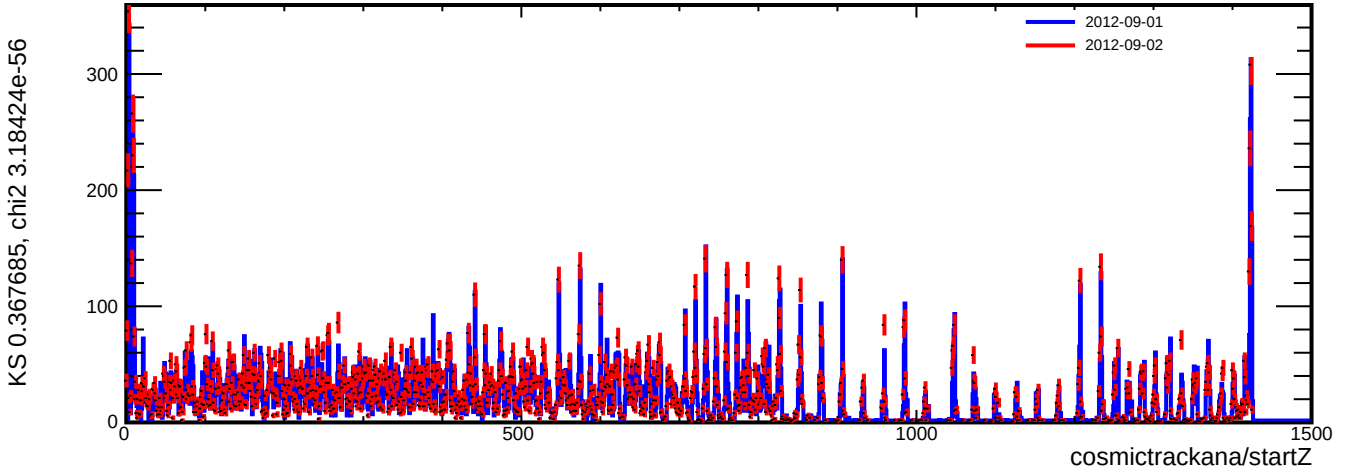

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/endZ

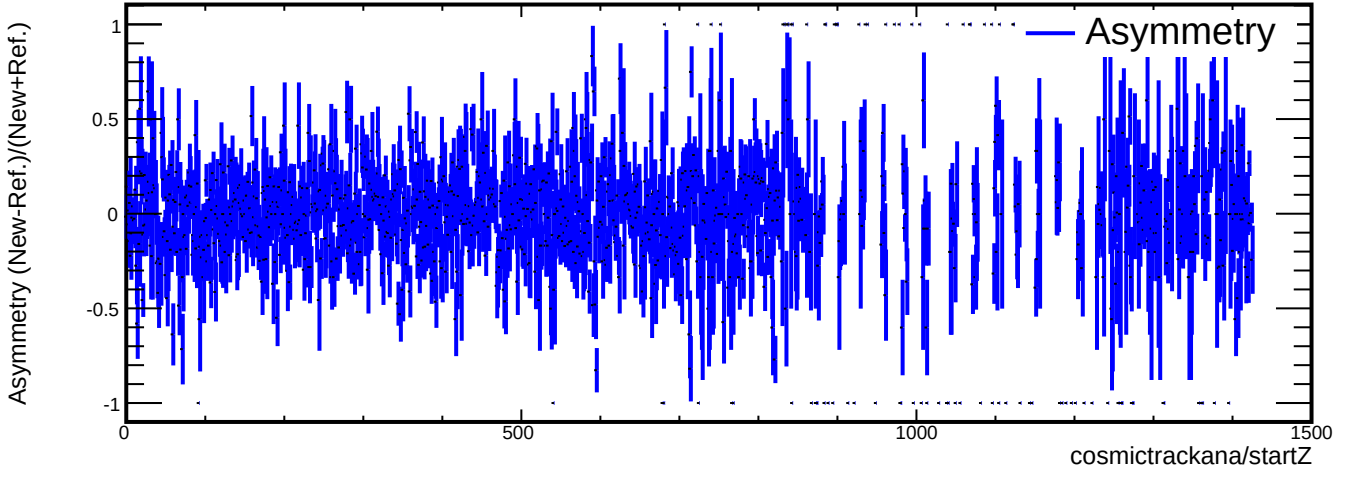

KS 0.0243669, chi2 1.35152e-12
2012-09-01
2012-09-02
cosmictrackana/startX

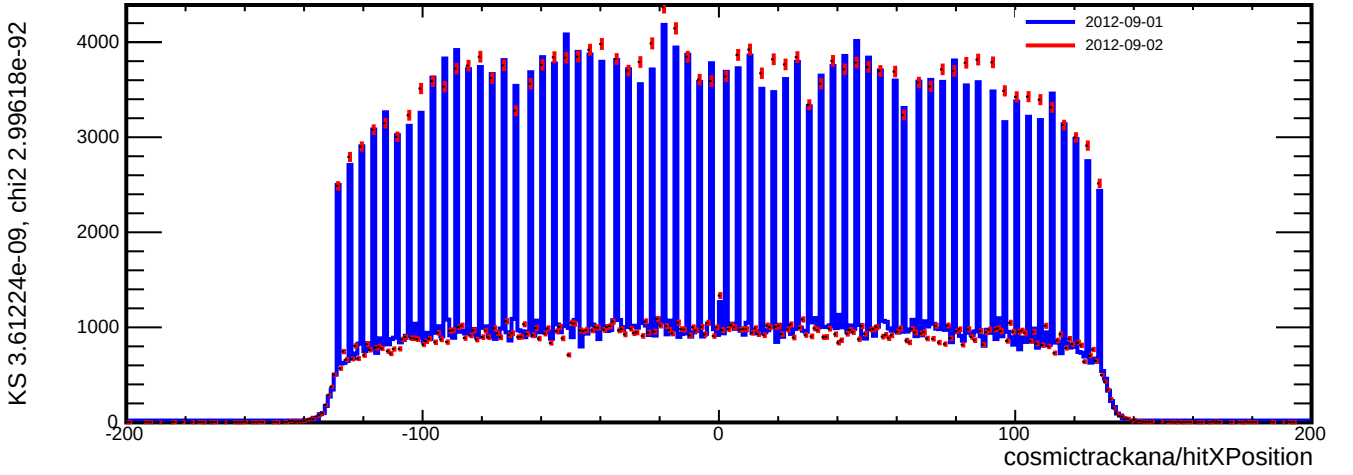

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/startX

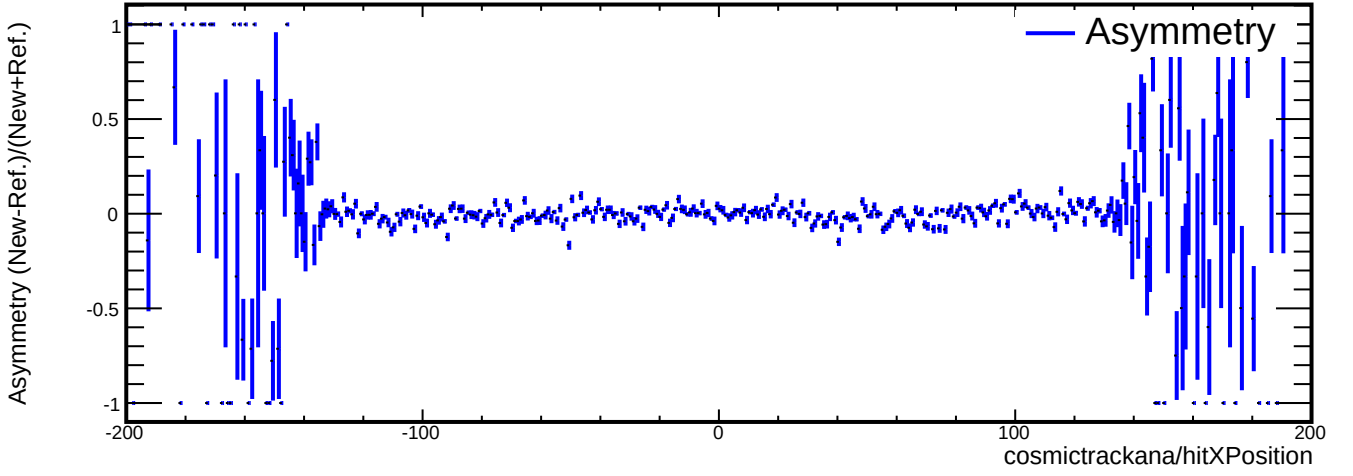

KS 0.0240003, chi2 1.24039e-19
2012-09-01
2012-09-02
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/startY

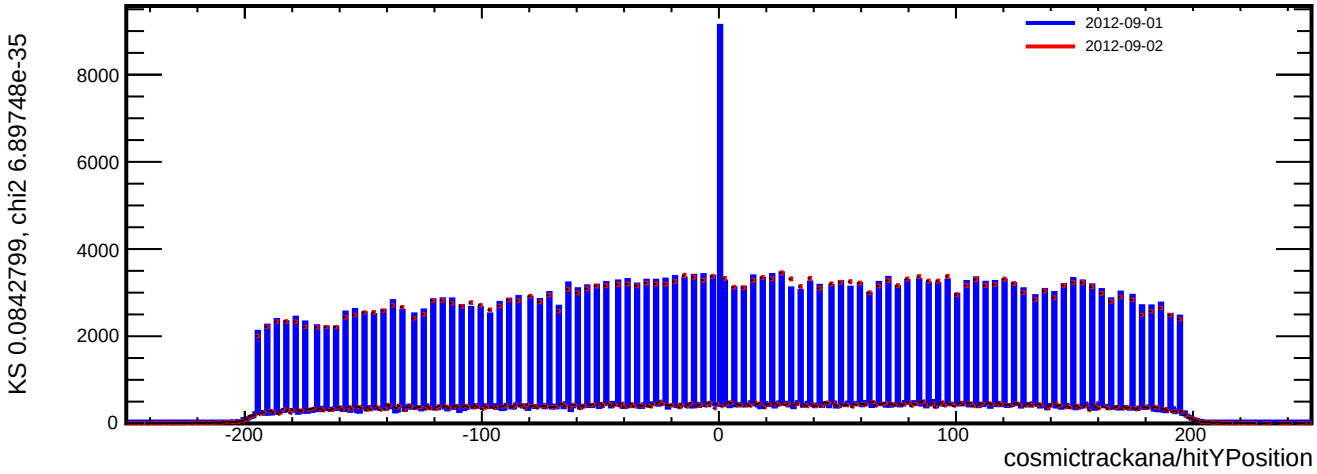

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/startY

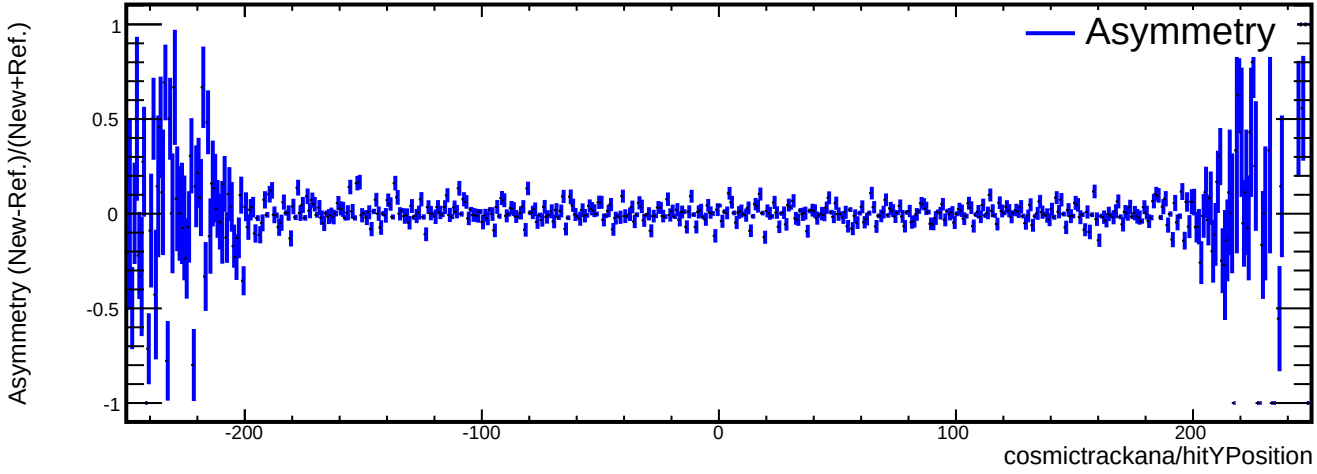

KS 0.367685, chi2 3.18424e-56
2012-09-01
2012-09-02
300
200
100
0
0
500
1000
1500
cosmictrackana/startZ

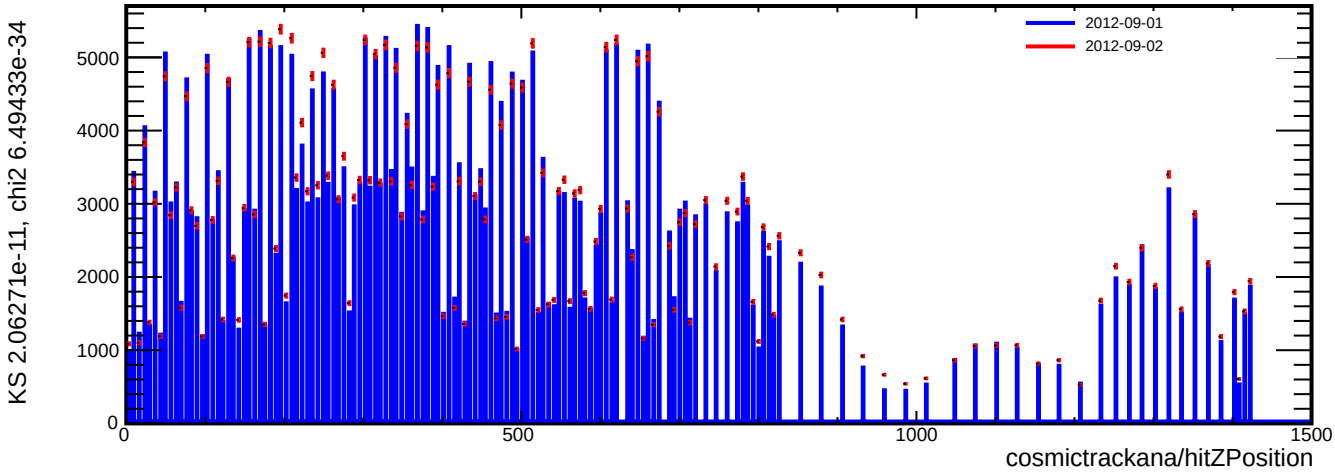

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/startZ

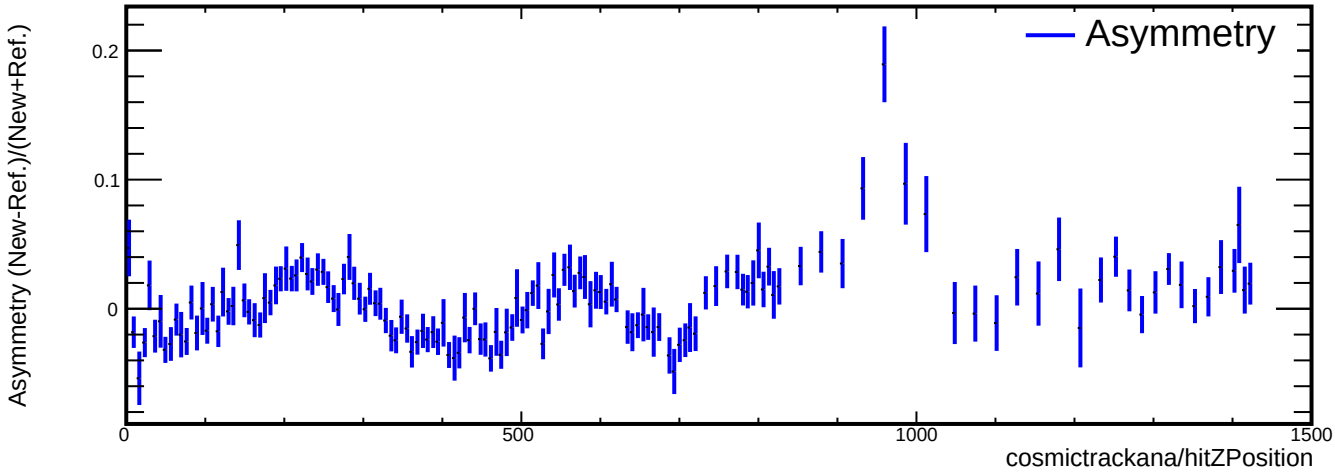

KS 3.61224e-09, chi2 2.99618e-92
2012-09-01
2012-09-02
4000
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/hitXPosition

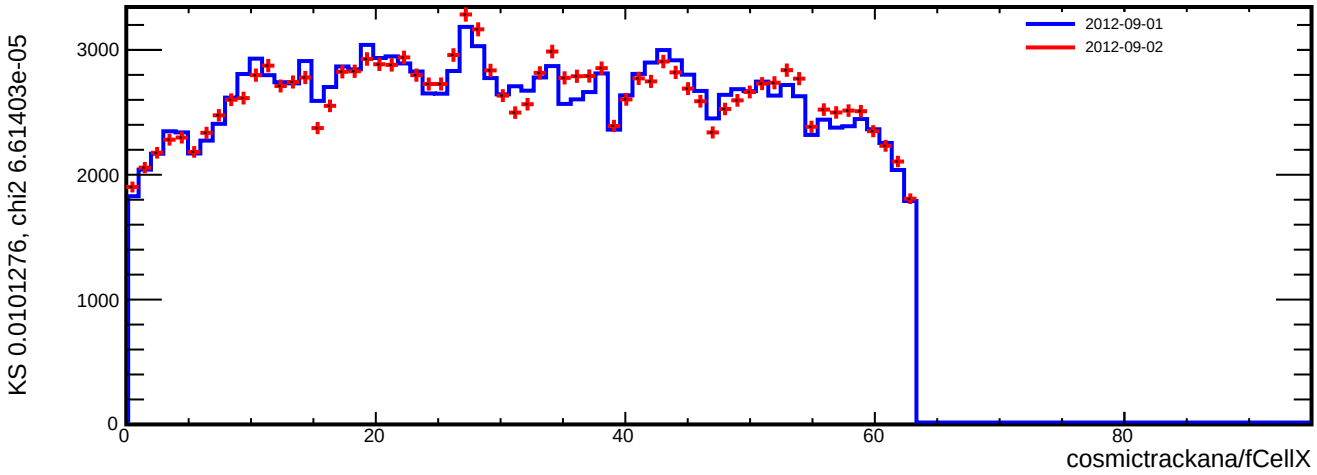

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitXPosition

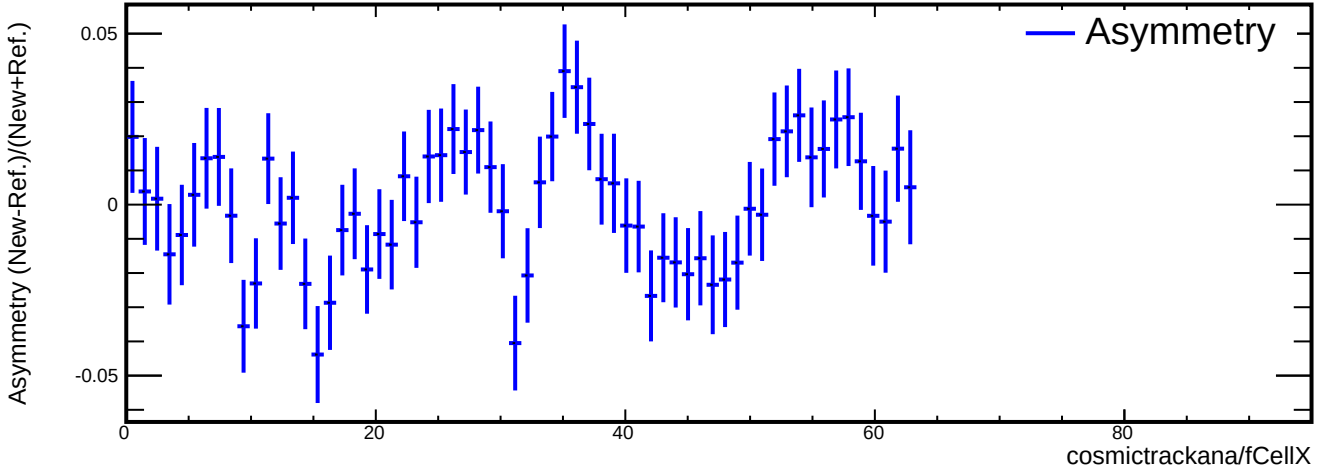

KS 0.0842799, chi2 6.89748e-35
2012-09-01
2012-09-02
8000
6000
4000
2000
0
-200
-100
0
100
200
cosmictrackana/hitYPosition

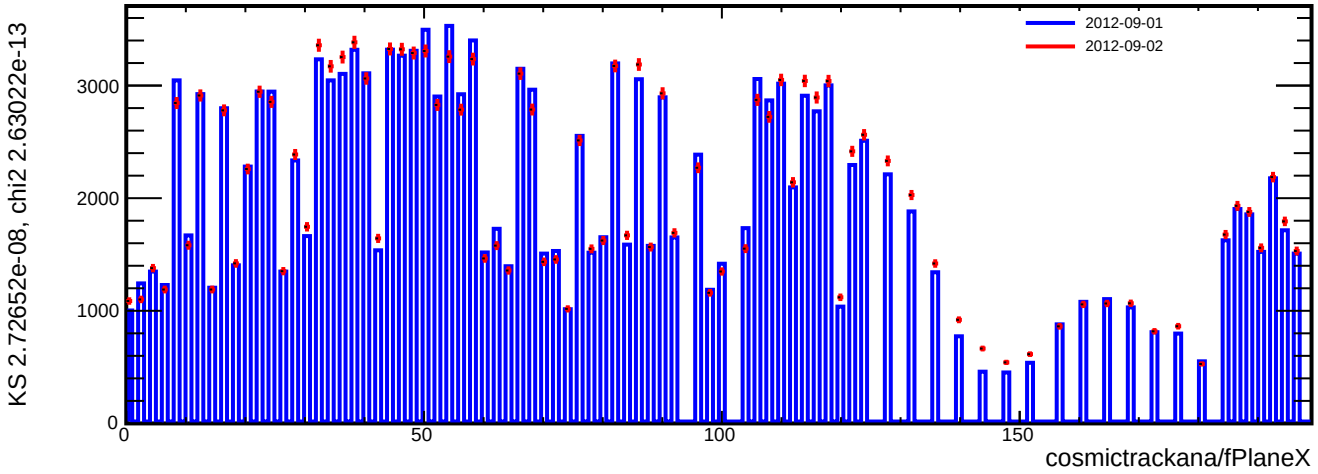

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitYPosition

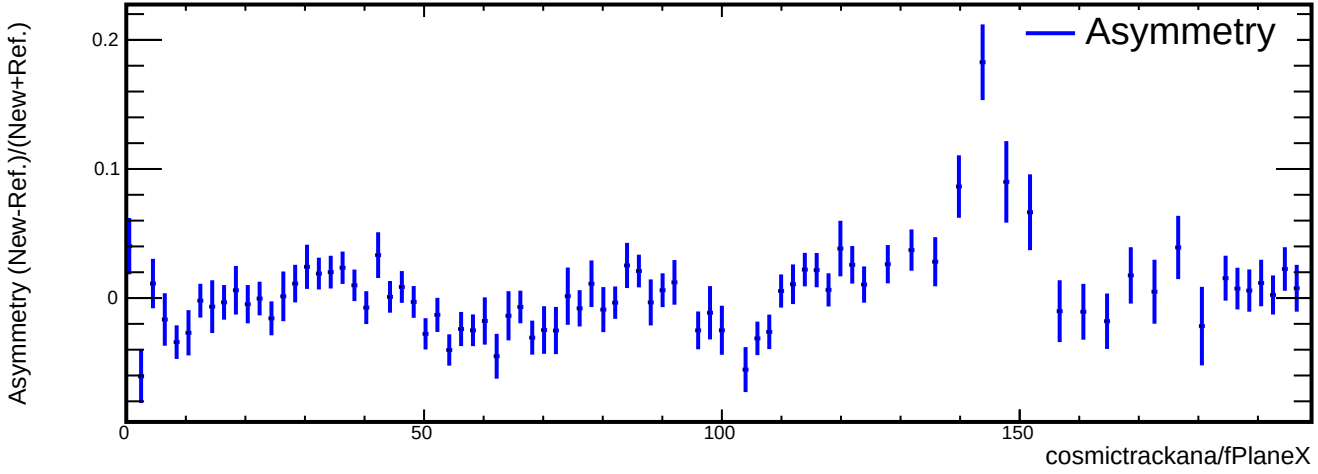

KS 2.06271e-11, chi2 6.49433e-34
2012-09-01
2012-09-02
0
1000
2000
3000
4000
5000
0
500
1000
1500
cosmictrackana/hitZPosition

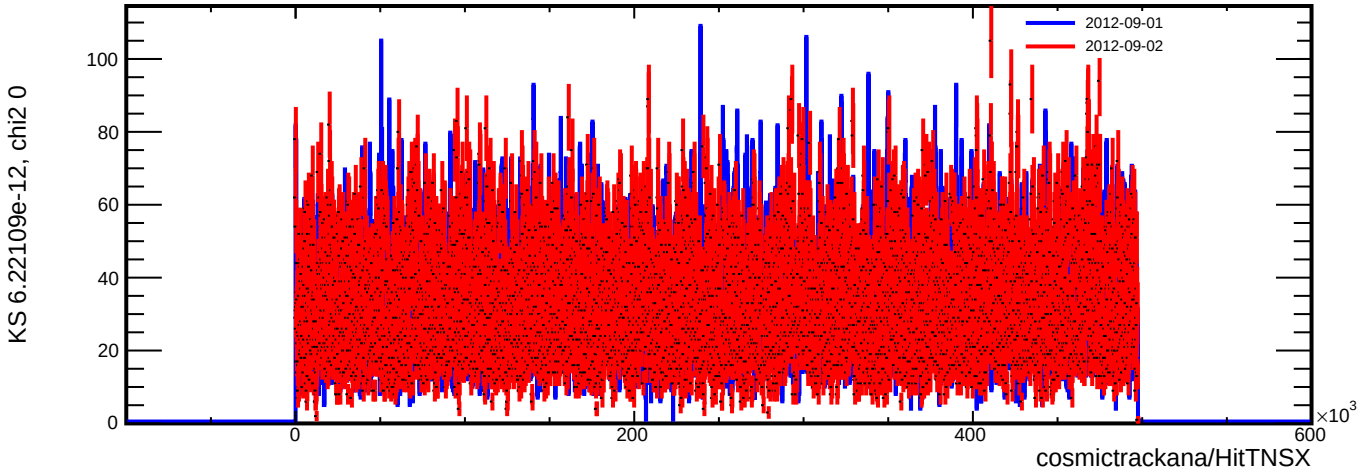

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0.1
0
0
500
1000
1500
cosmictrackana/hitZPosition

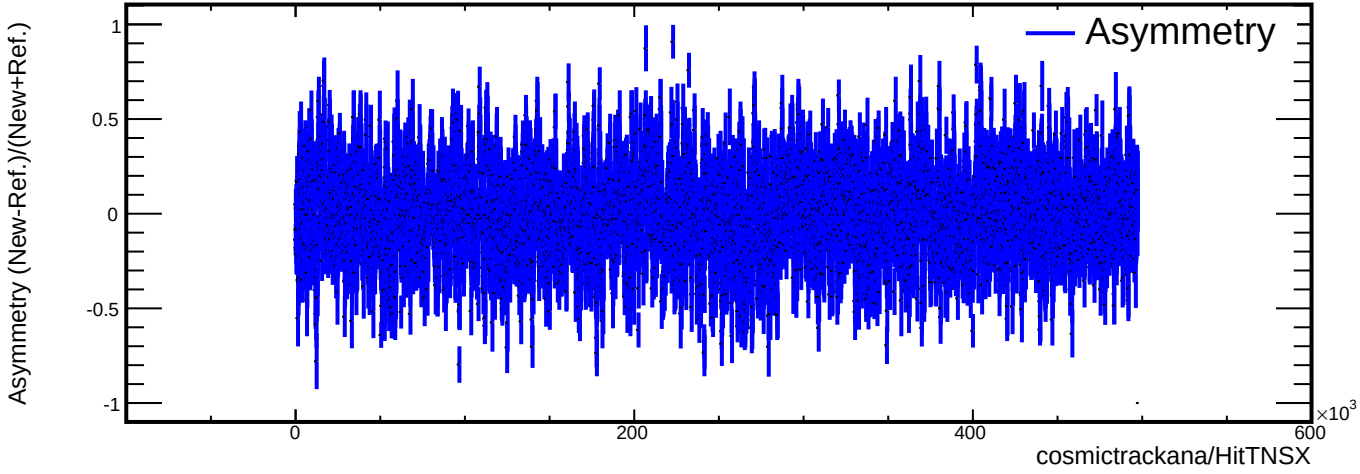

KS 0.0101276, chi2 6.61403e-05
2012-09-01
2012-09-02
3000
2000
1000
0
0
20
40
60
80
cosmictrackana/fCellX

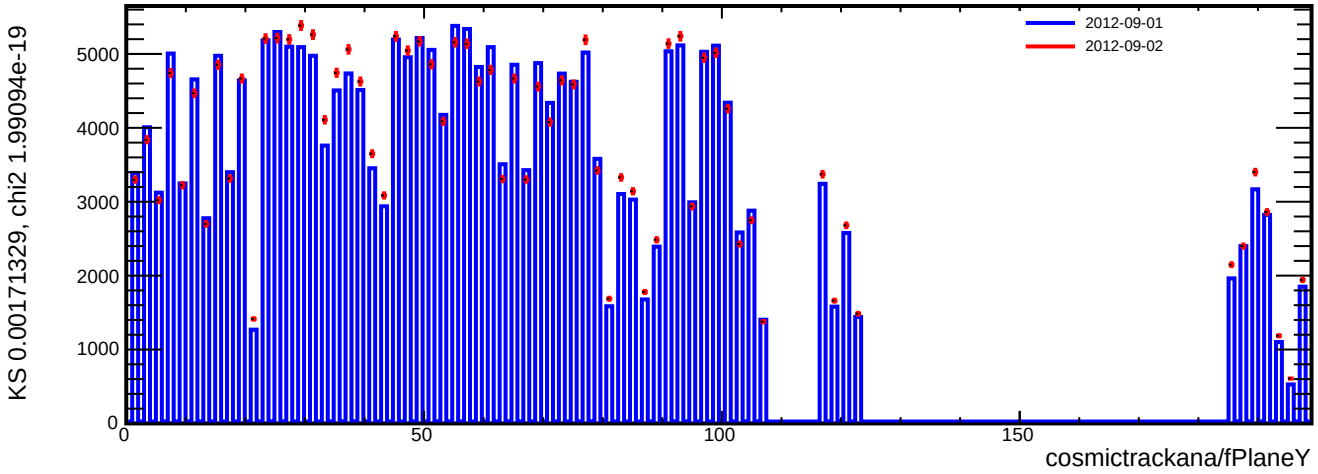

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.05
0
-0.05
0
20
40
60
80
cosmictrackana/fCellX

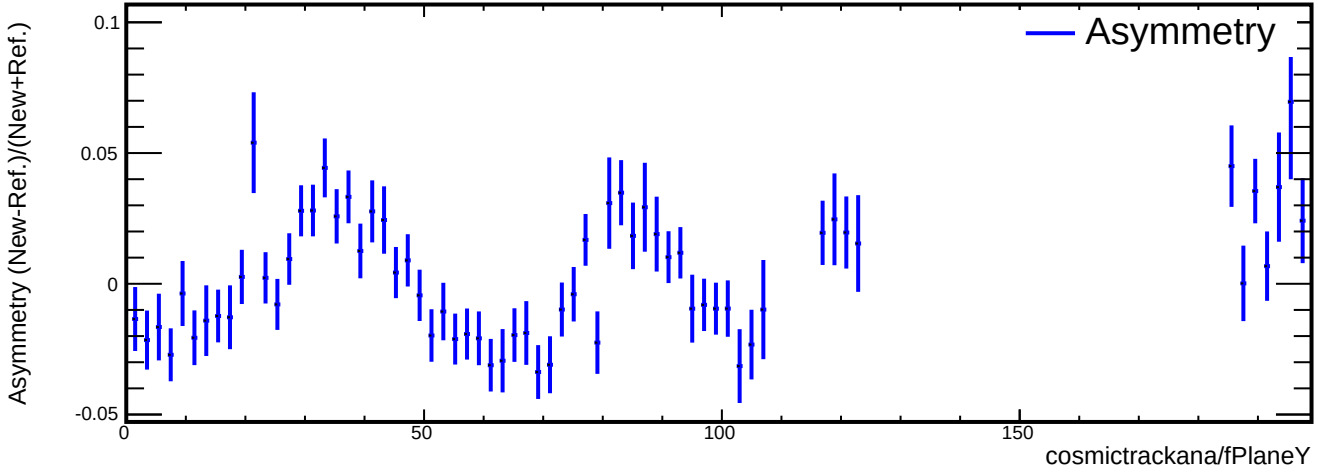

KS 2.72652e-08, chi2 2.63022e-13
2012-09-01
2012-09-02
0
1000
2000
3000
0
50
100
150
cosmictrackana/fPlaneX

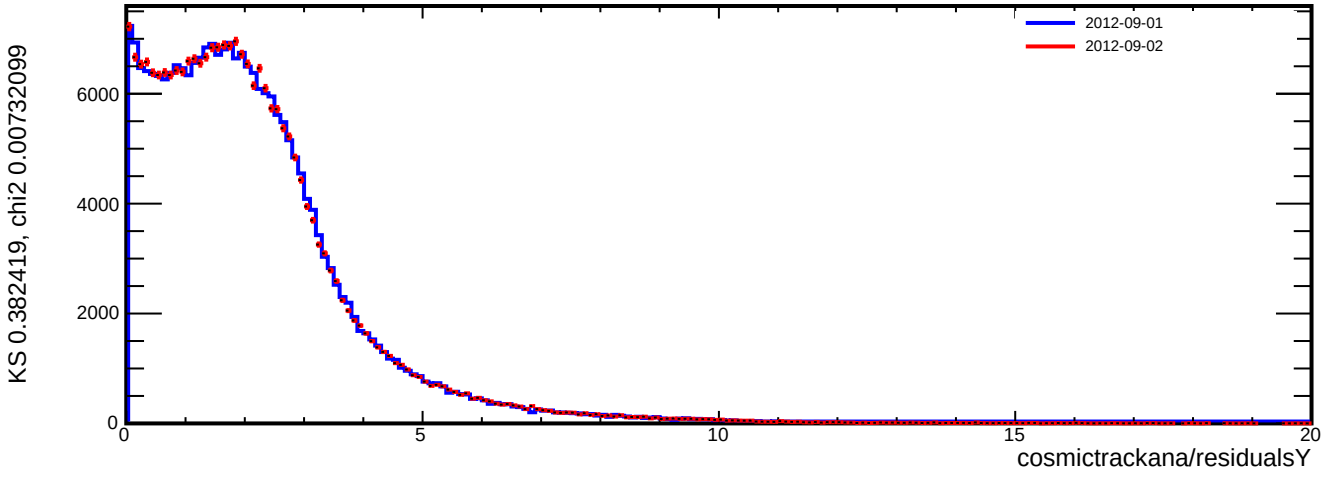

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0.1
0
0
50
100
150
cosmictrackana/fPlaneX

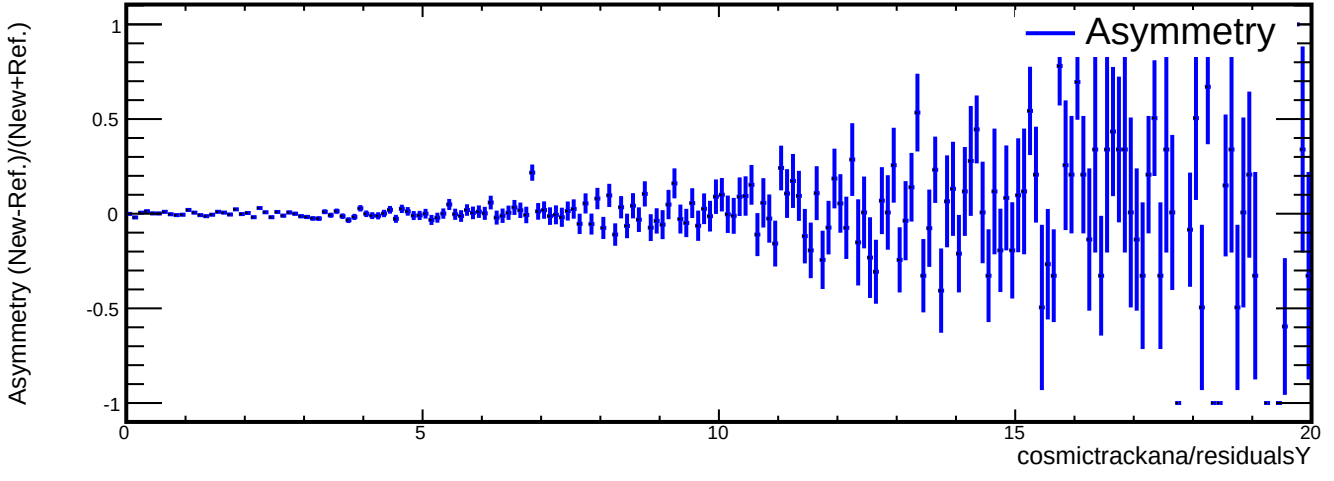

KS 6.22109e-12, chi2 0
2012-09-01
2012-09-02
100
80
60
40
20
0
0
200
400
600
×10^3
cosmictrackana/HitTNSX

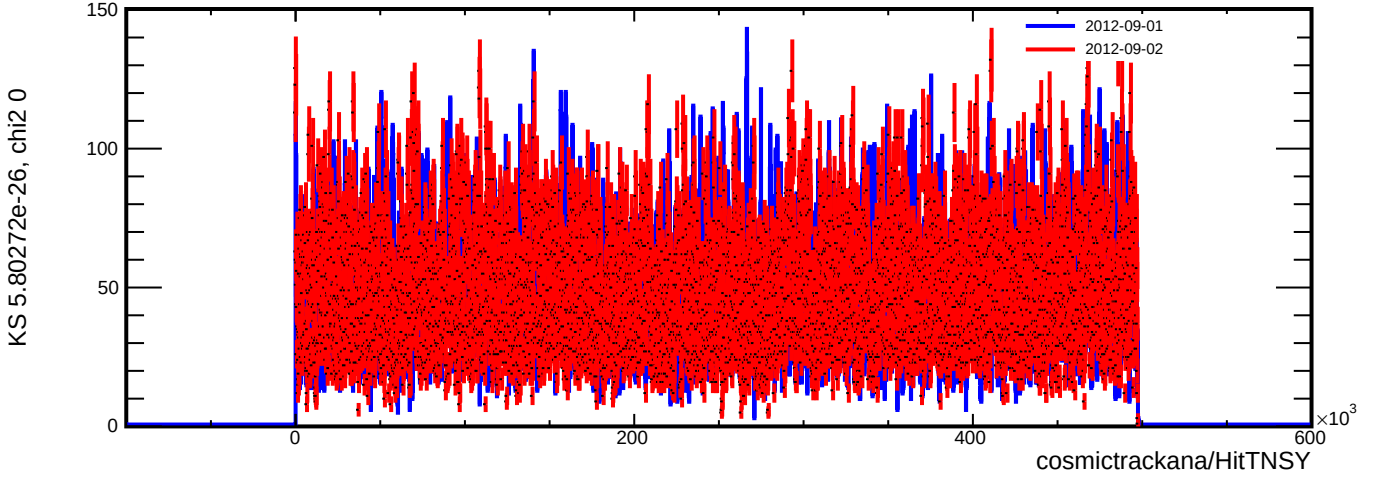

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
200
400
600
×10^3
cosmictrackana/HitTNSX

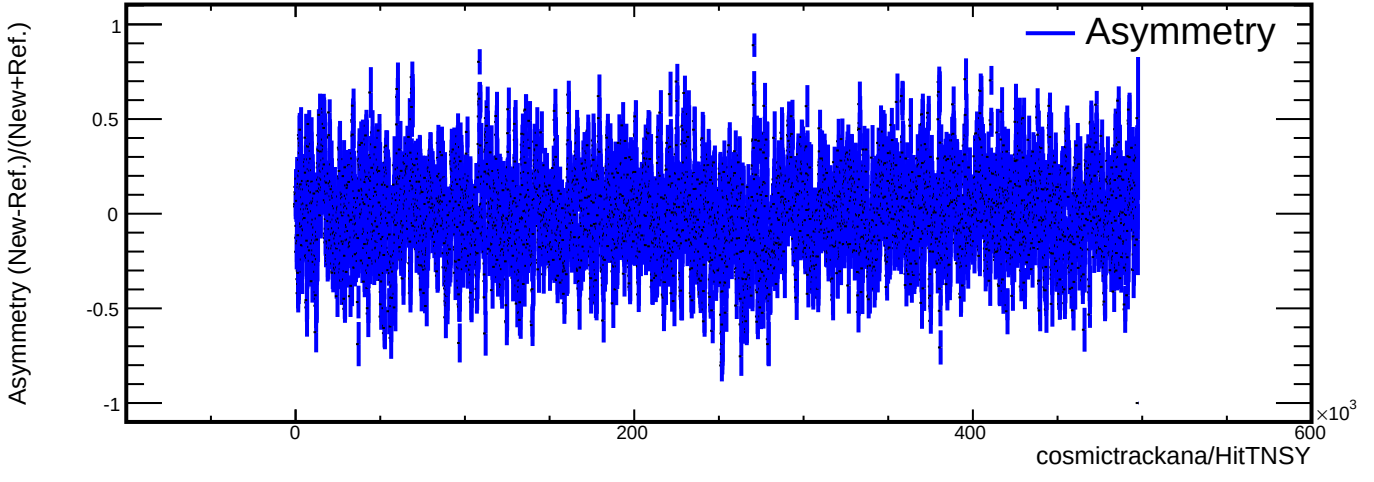

KS 0.00171329, chi2 1.99094e-19
2012-09-01
2012-09-02
0
1000
2000
3000
4000
5000
0
50
100
150
cosmictrackana/fPlaneY


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


KS 0.382419, chi2 0.00732099
2012-09-01
2012-09-02
6000
4000
2000
0
0
5
10
15
20
cosmictrackana/residualsY


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


KS 5.80272e-26, chi2 0
150
100
50
0
0
200
400
600
×10^3
cosmictrackana/HitTNSY
2012-09-01
2012-09-02


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