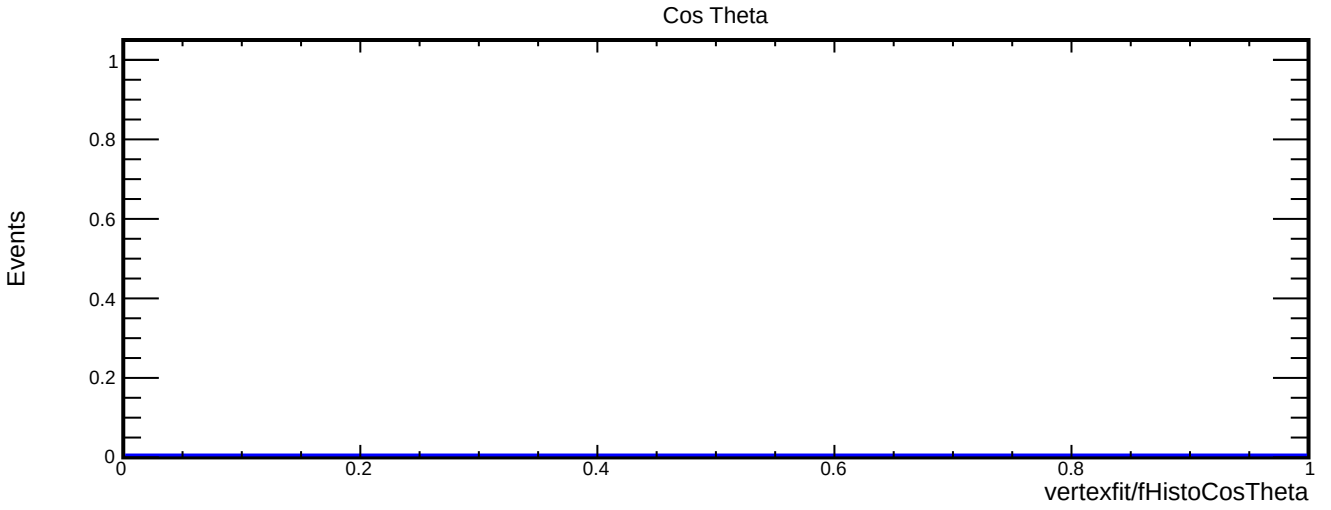
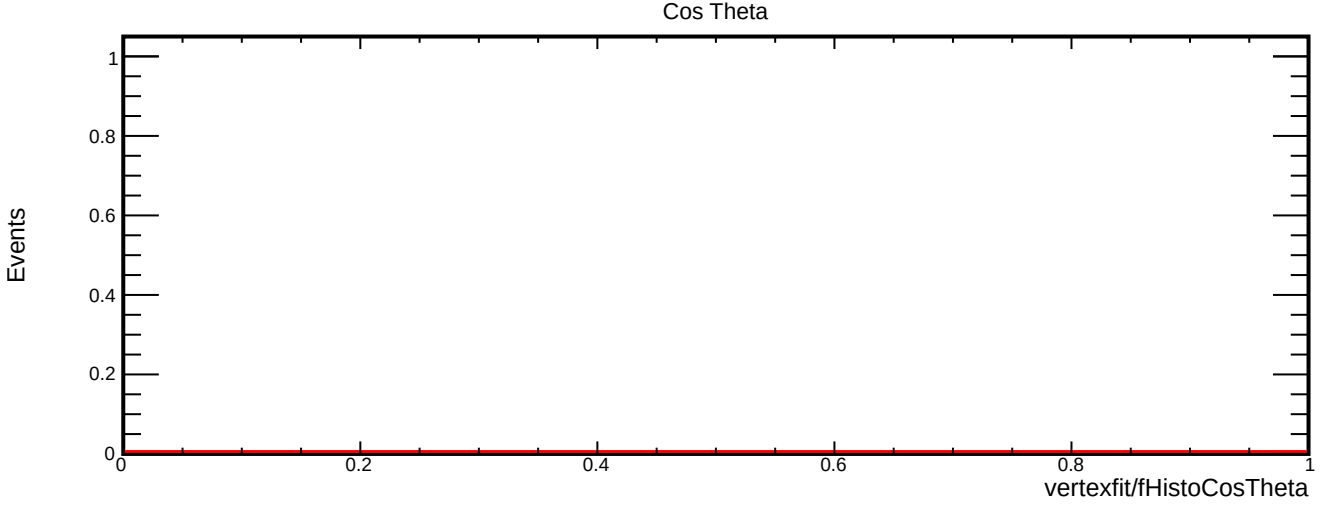
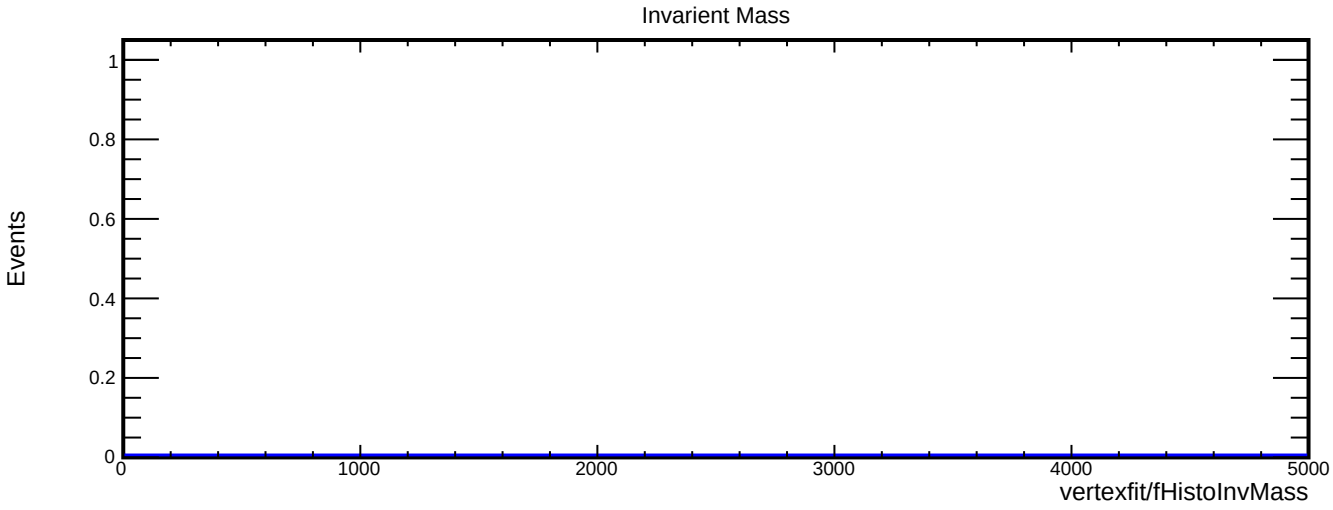
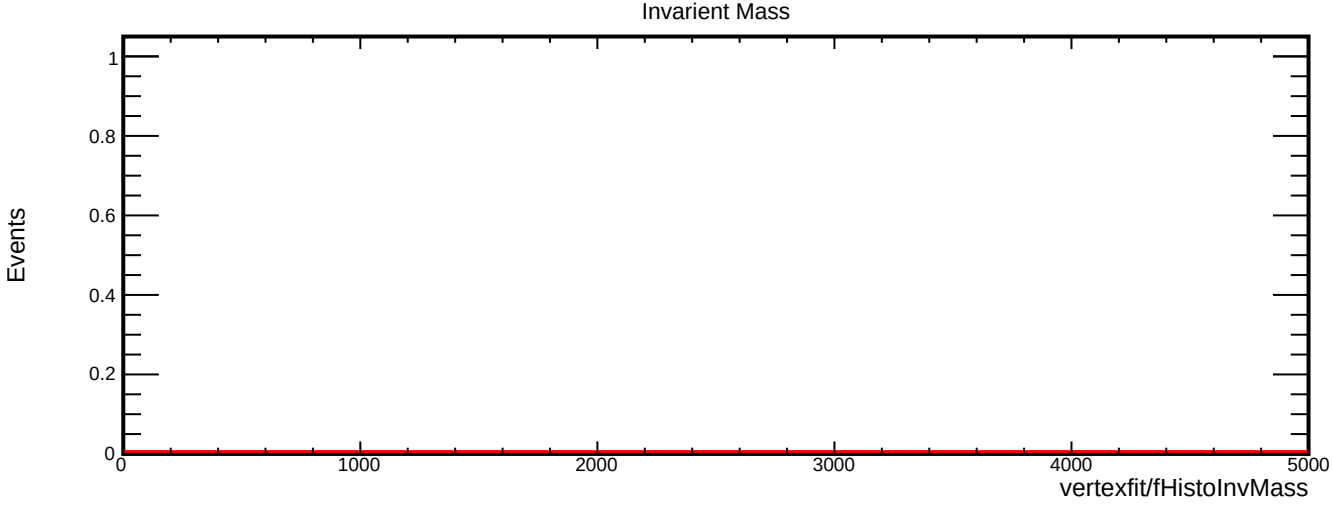
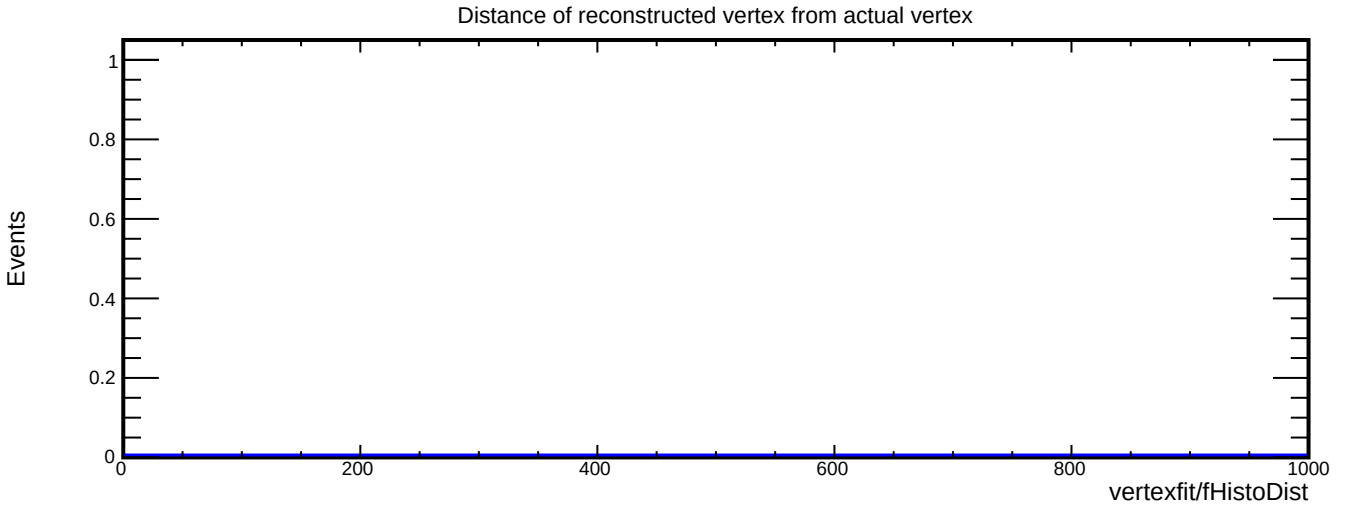
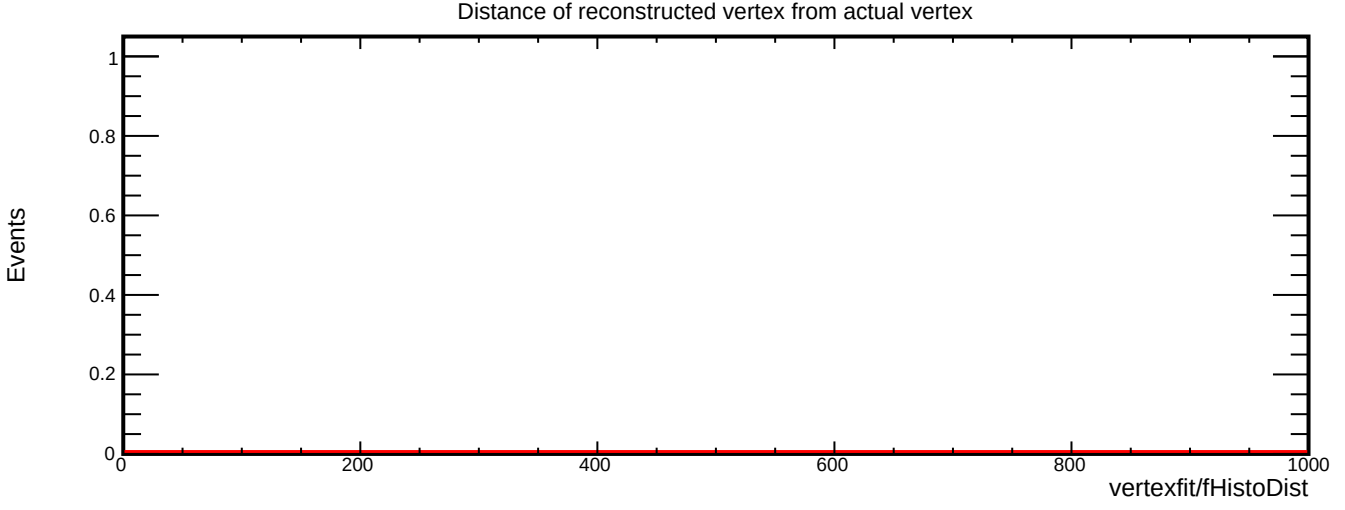

Cos Theta
Events
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
vertexfit/fHistoCosTheta

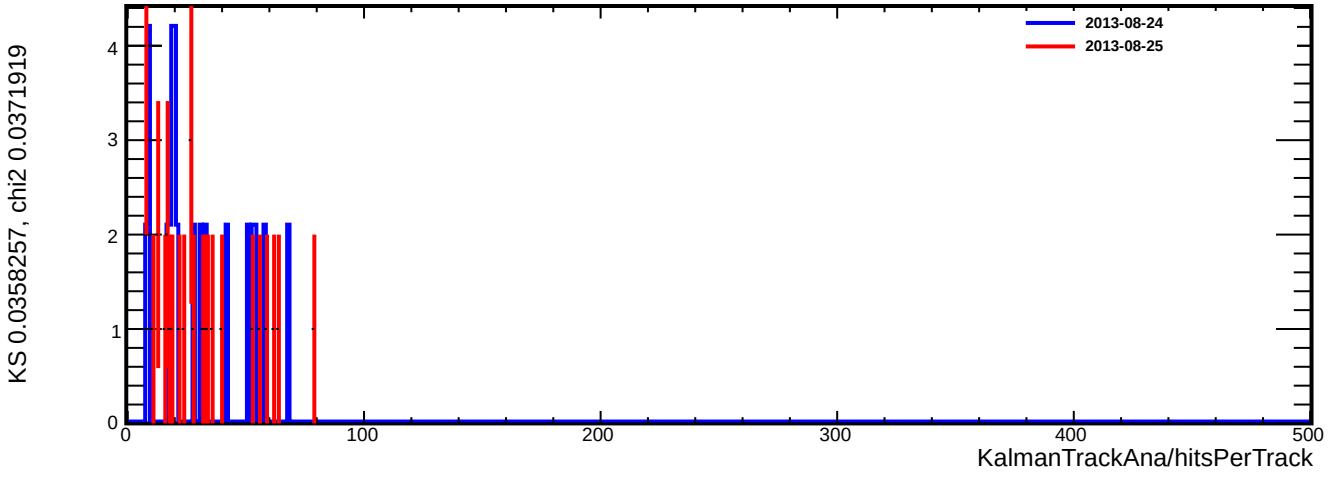

Cos Theta
Events
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
vertexfit/fHistoCosTheta

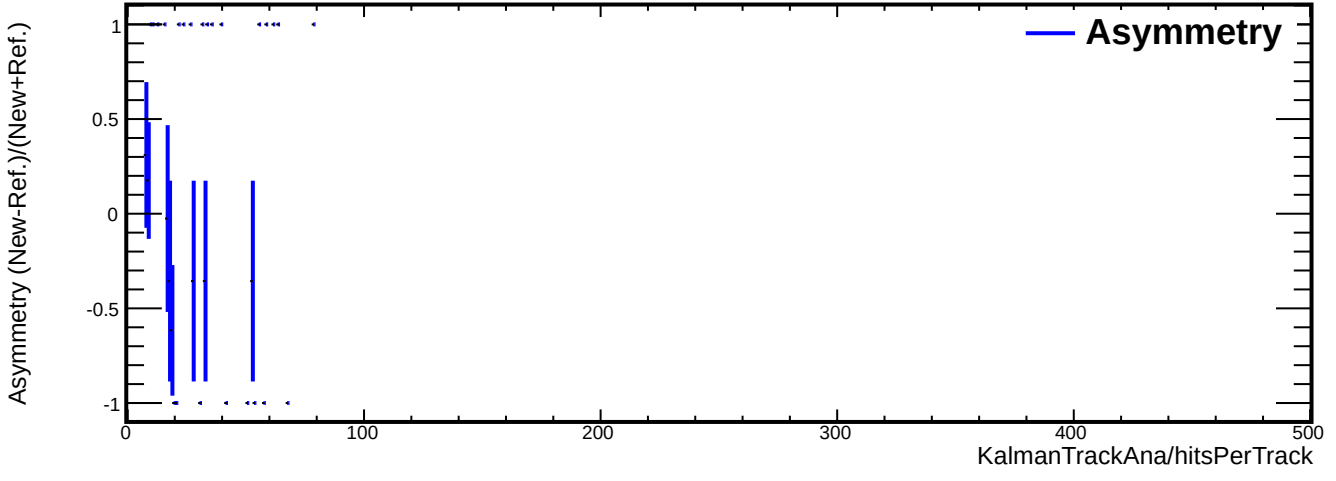

Invarient Mass
Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
5000
vertexfit/fHistoInvMass

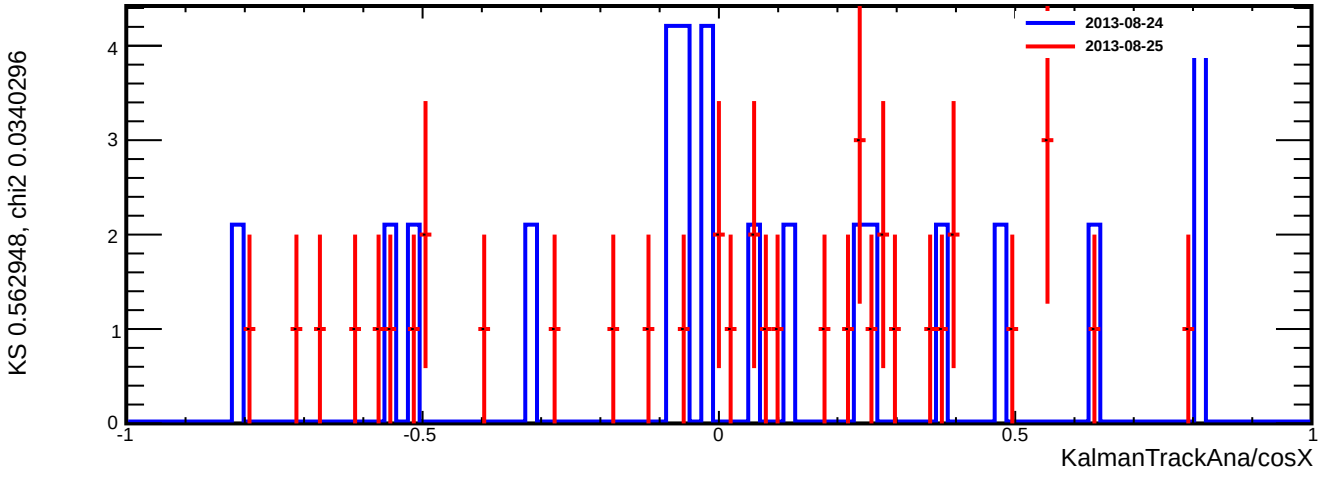

Invarient Mass
Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
5000
vertexfit/fHistoInvMass

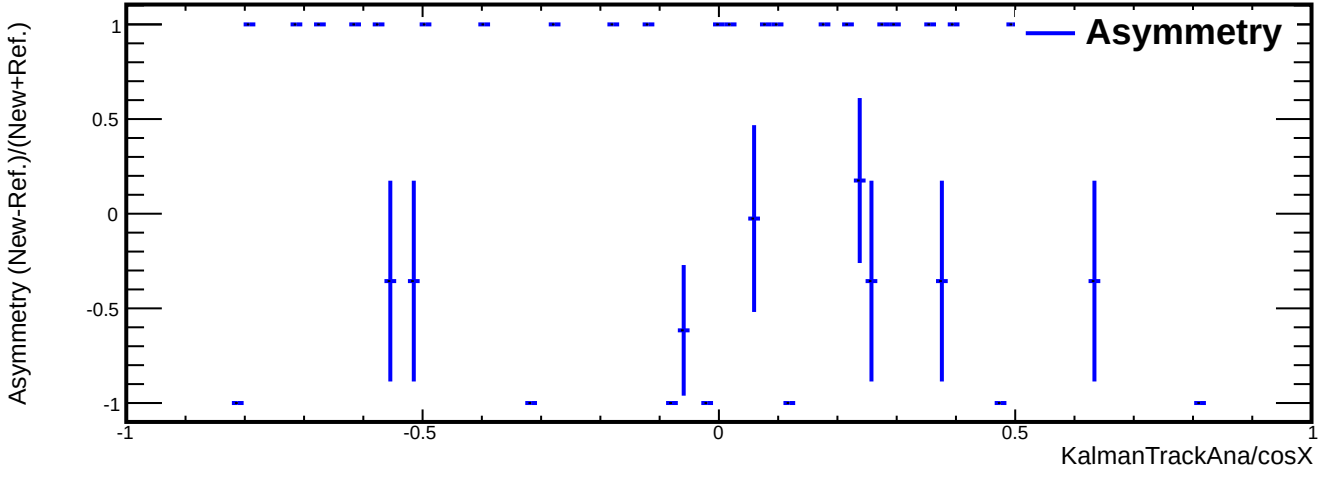

Distance of reconstructed vertex from actual vertex
Events
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
vertexfit/fHistoDist

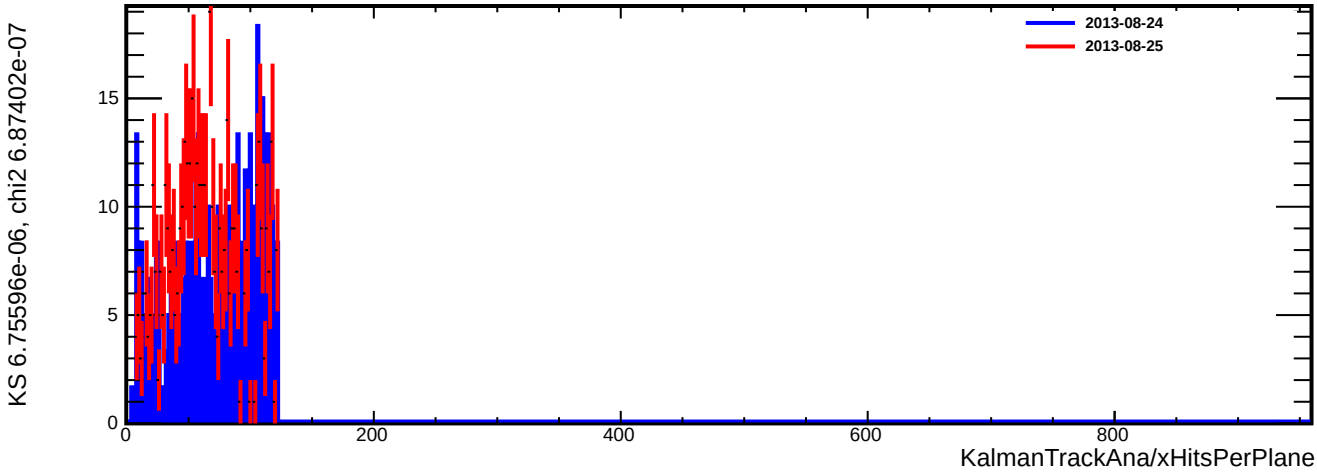

Distance of reconstructed vertex from actual vertex
Events
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
vertexfit/fHistoDist

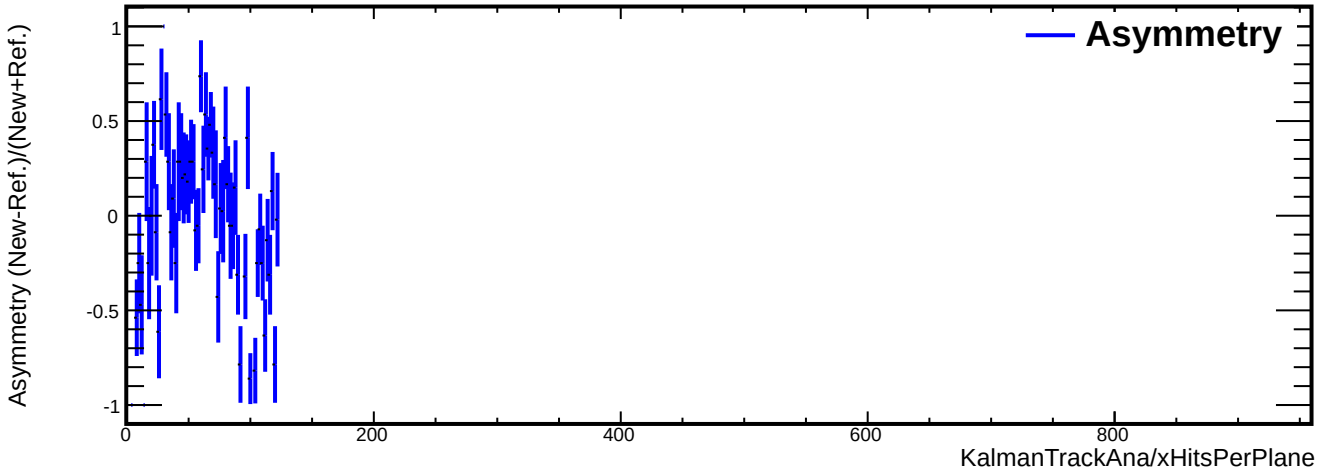

KS 0.0358257, chi2 0.0371919
2013-08-24
2013-08-25
0
1
2
3
4
0
100
200
300
400
500
KalmanTrackAna/hitsPerTrack

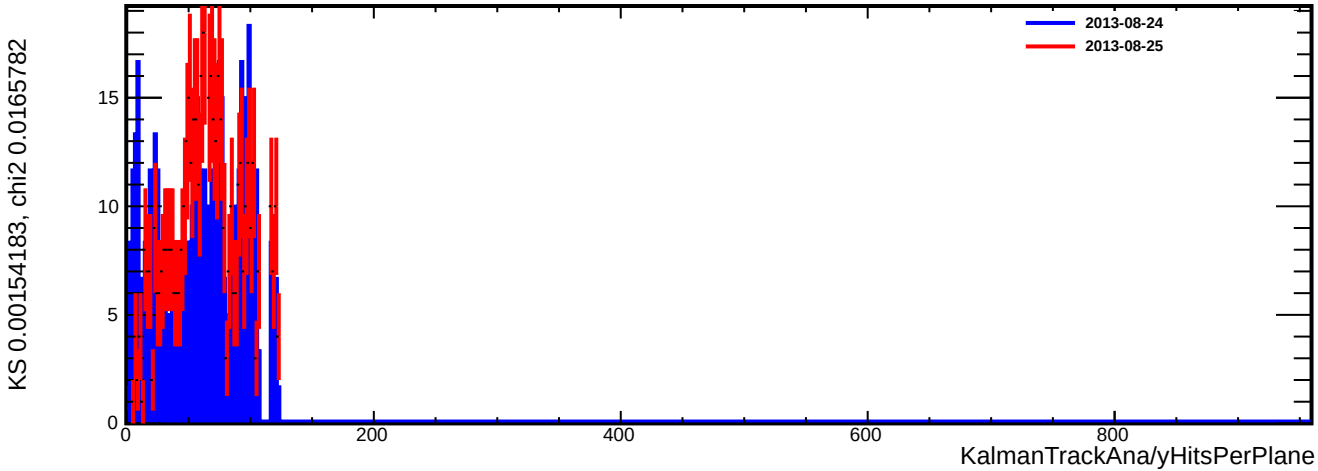

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
100
200
300
400
500
KalmanTrackAna/hitsPerTrack

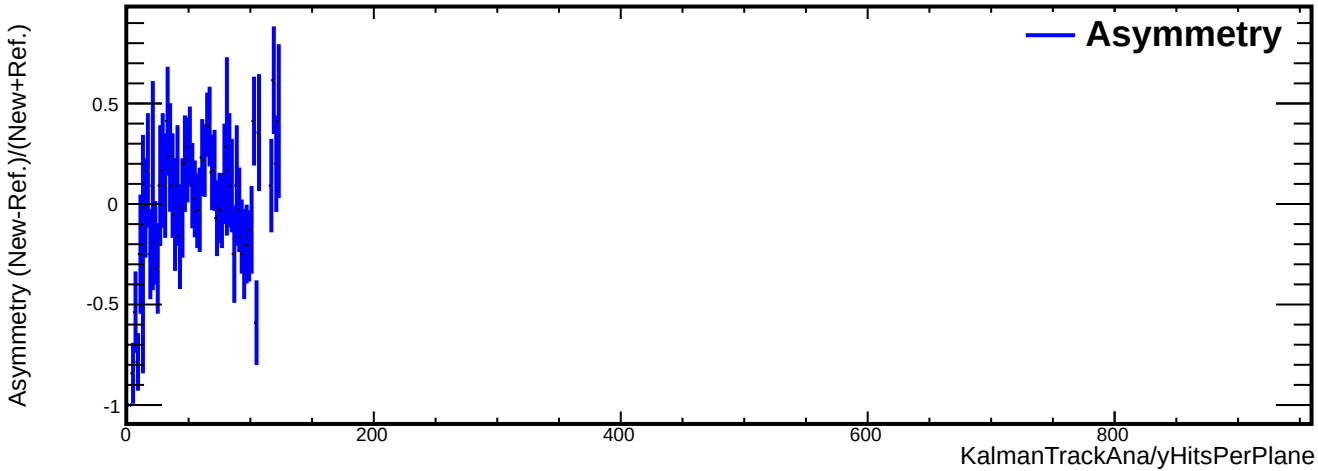

KS 0.562948, chi2 0.0340296
2013-08-24
2013-08-25
KalmanTrackAna/cosX

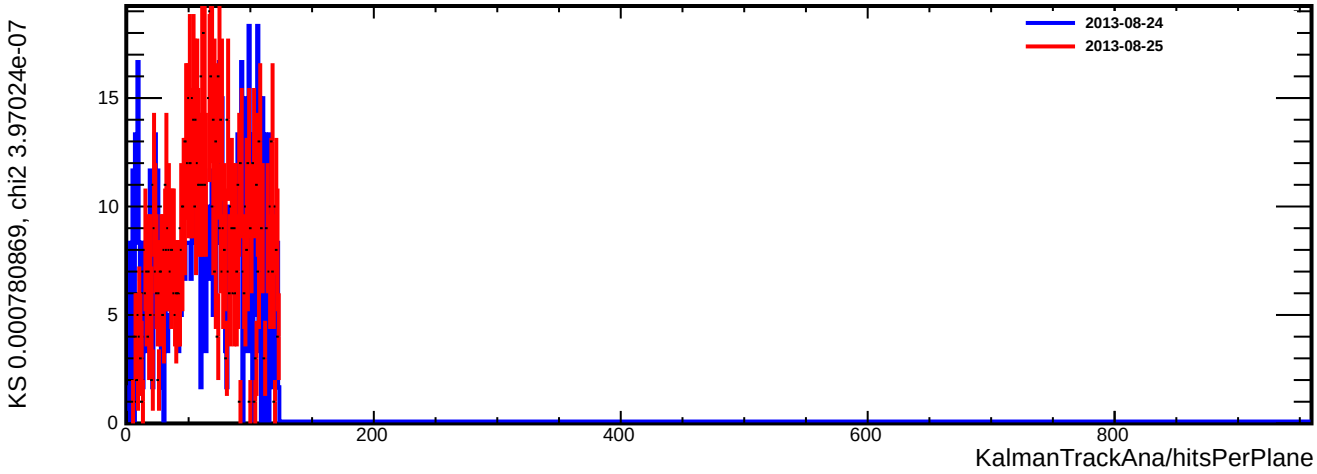

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/cosX

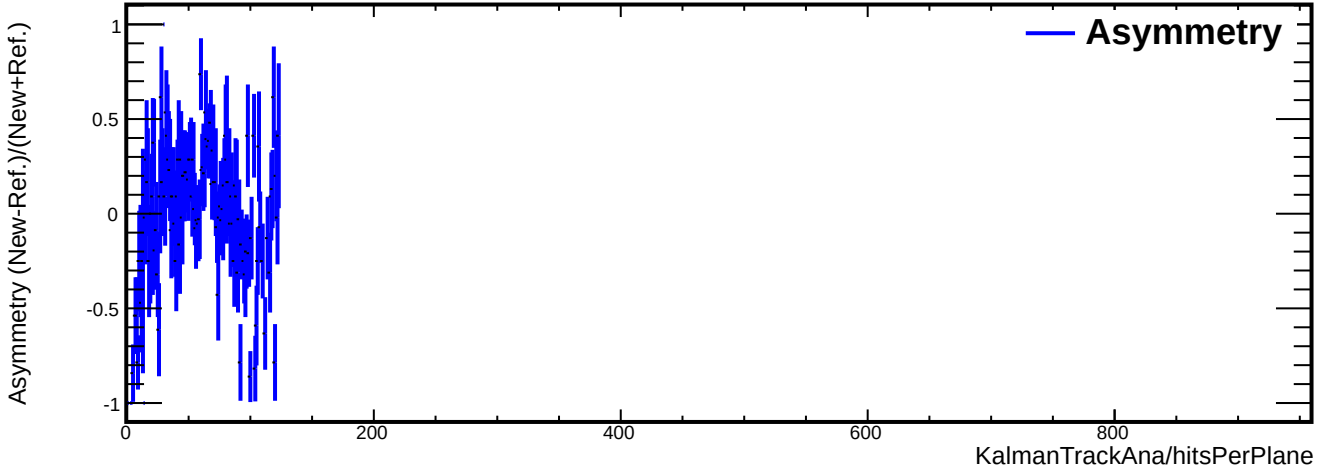

KS 6.75596e-06, chi2 6.87402e-07
2013-08-24
2013-08-25
0
5
10
15
0
200
400
600
800
KalmanTrackAna/xHitsPerPlane

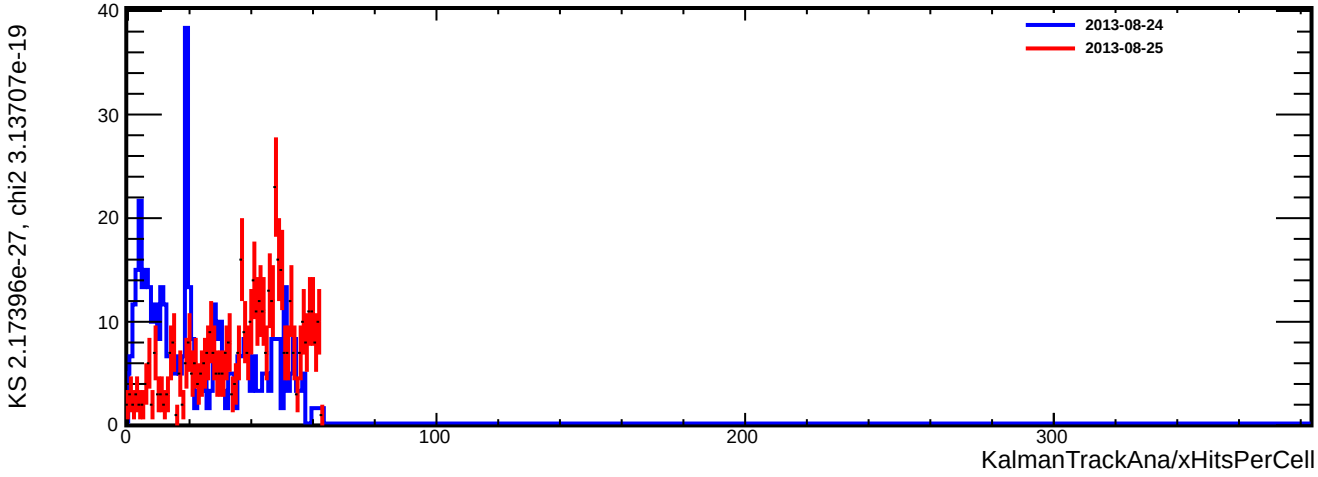

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
200
400
600
800
KalmanTrackAna/xHitsPerPlane

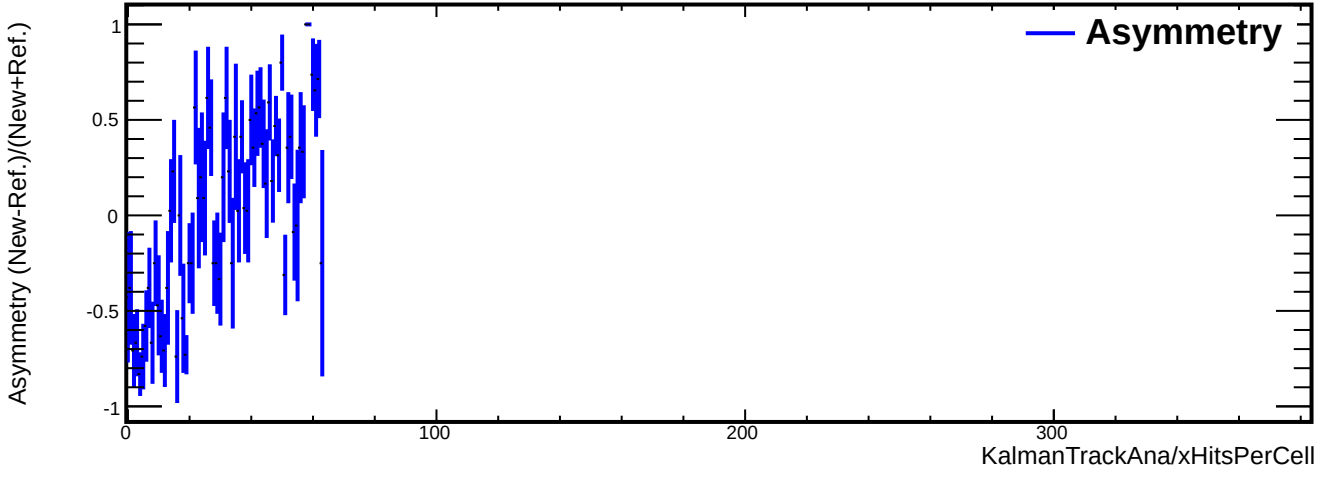

KS 0.00154183, chi2 0.0165782
2013-08-24
2013-08-25
0
5
10
15
0
200
400
600
800
KalmanTrackAna/yHitsPerPlane

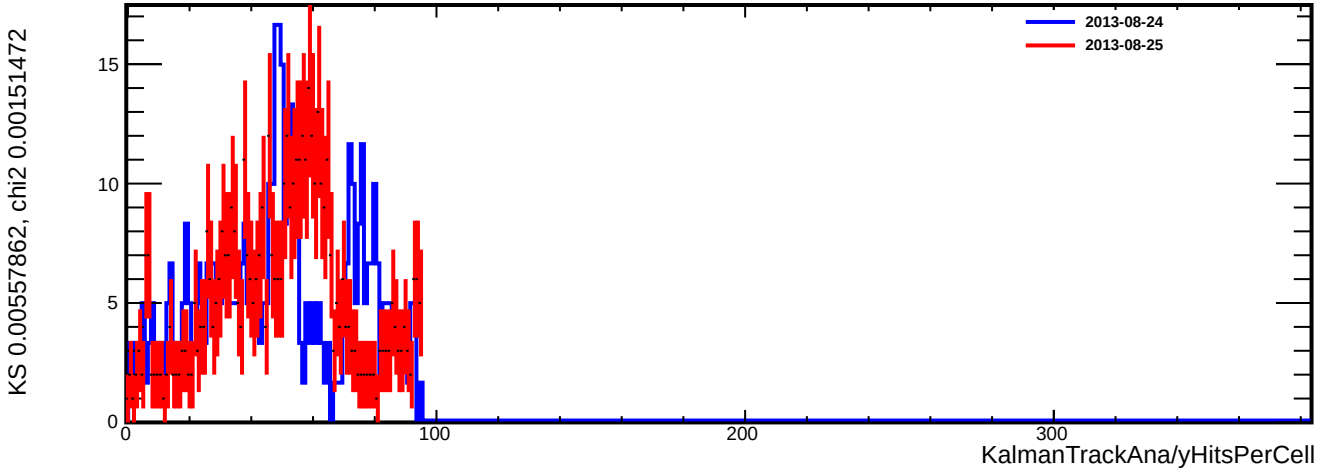

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
-1
-0.5
0
0.5
0
200
400
600
800
KalmanTrackAna/yHitsPerPlane

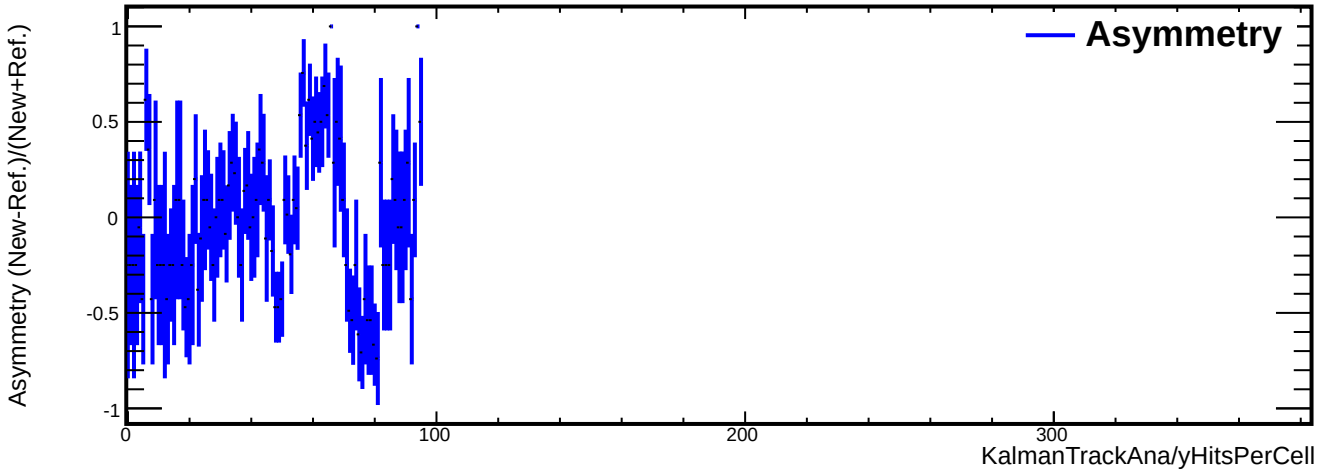

KS 0.000780869, chi2 3.97024e-07
2013-08-24
2013-08-25
0
5
10
15
0
200
400
600
800
KalmanTrackAna/hitsPerPlane

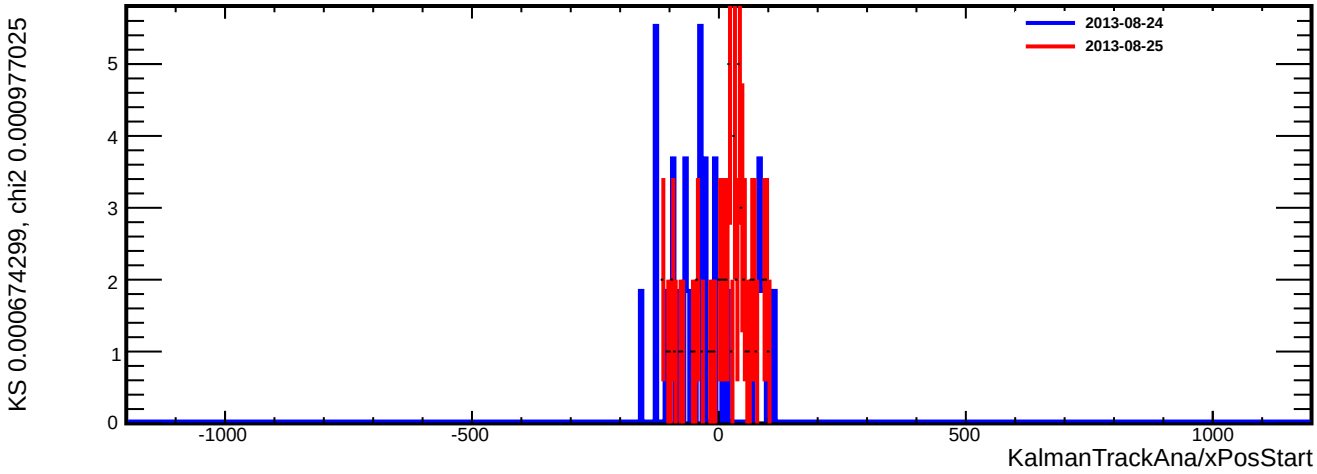

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
200
400
600
800
KalmanTrackAna/hitsPerPlane

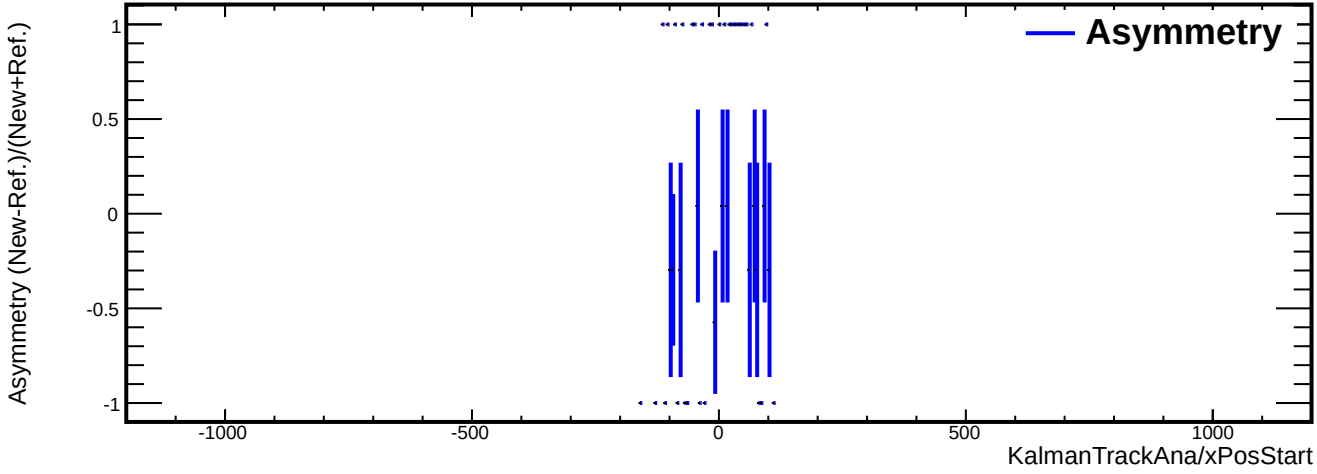

KS 2.17396e-27, chi2 3.13707e-19
2013-08-24
2013-08-25
KalmanTrackAna/xHitsPerCell

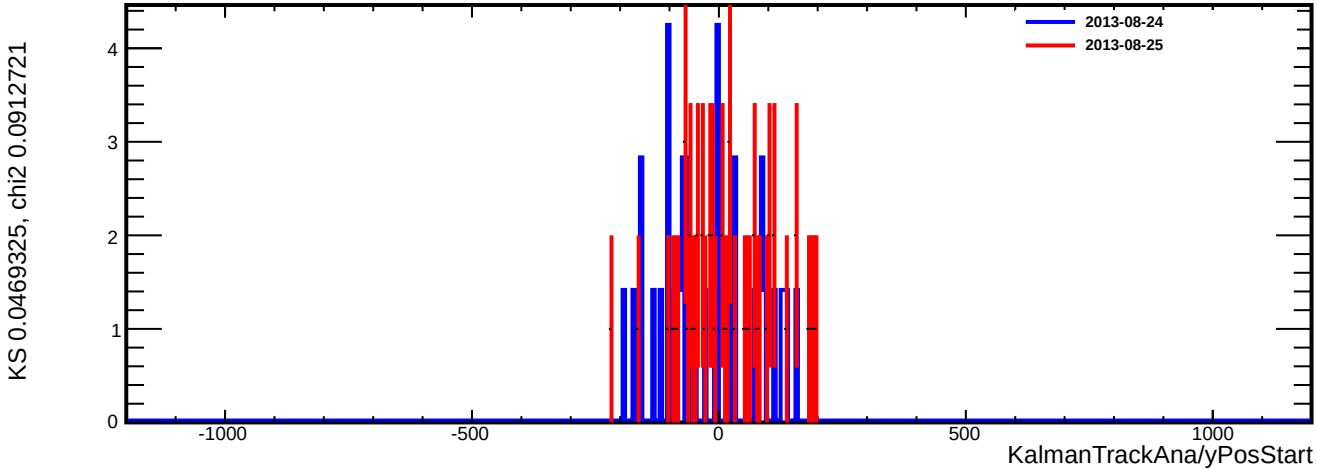

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/xHitsPerCell

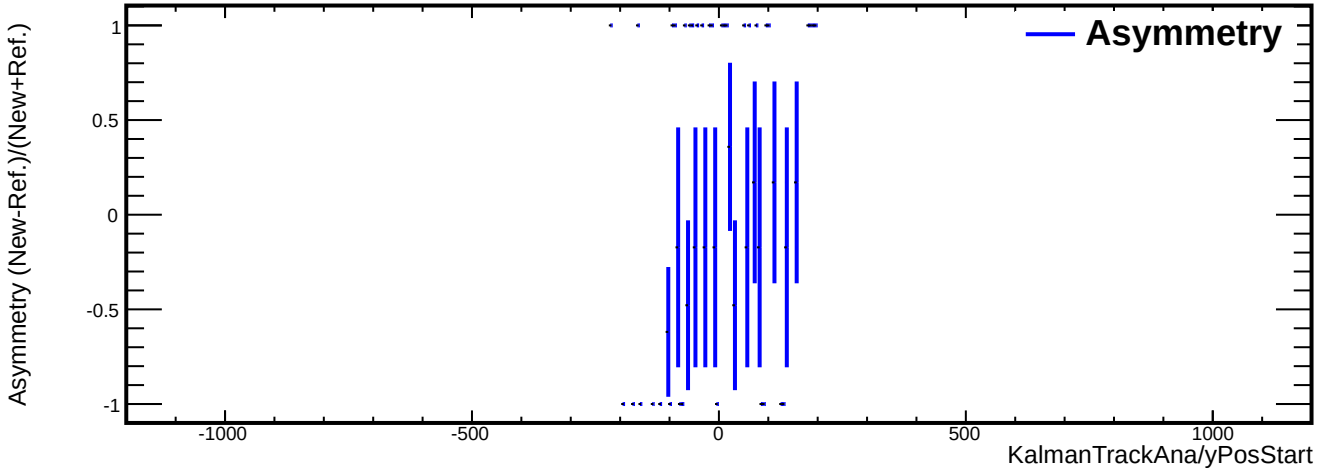

KS 0.00557862, chi2 0.00151472
2013-08-24
2013-08-25
0
5
10
15
0
100
200
300
KalmanTrackAna/yHitsPerCell

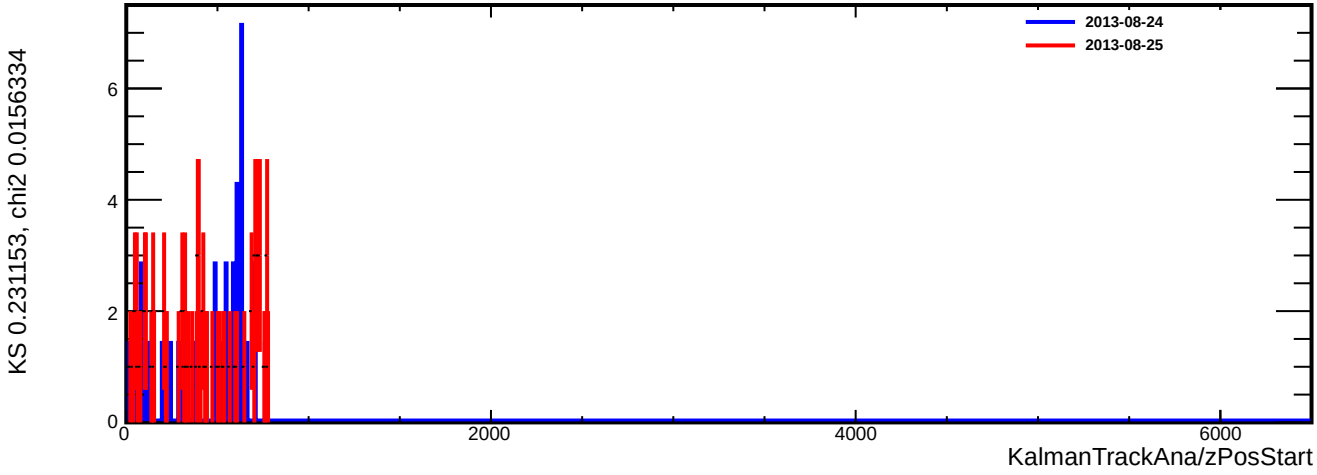

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
100
200
300
KalmanTrackAna/yHitsPerCell

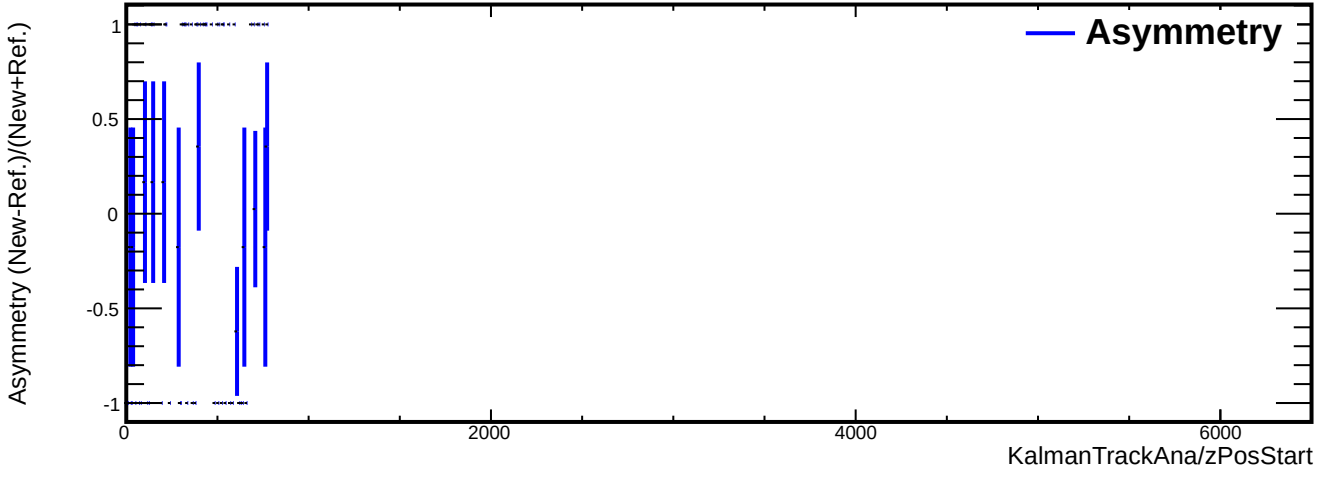

KS 0.000674299, chi2 0.000977025
2013-08-24
2013-08-25
0
1
2
3
4
5
-1000
-500
0
500
1000
KalmanTrackAna/xPosStart

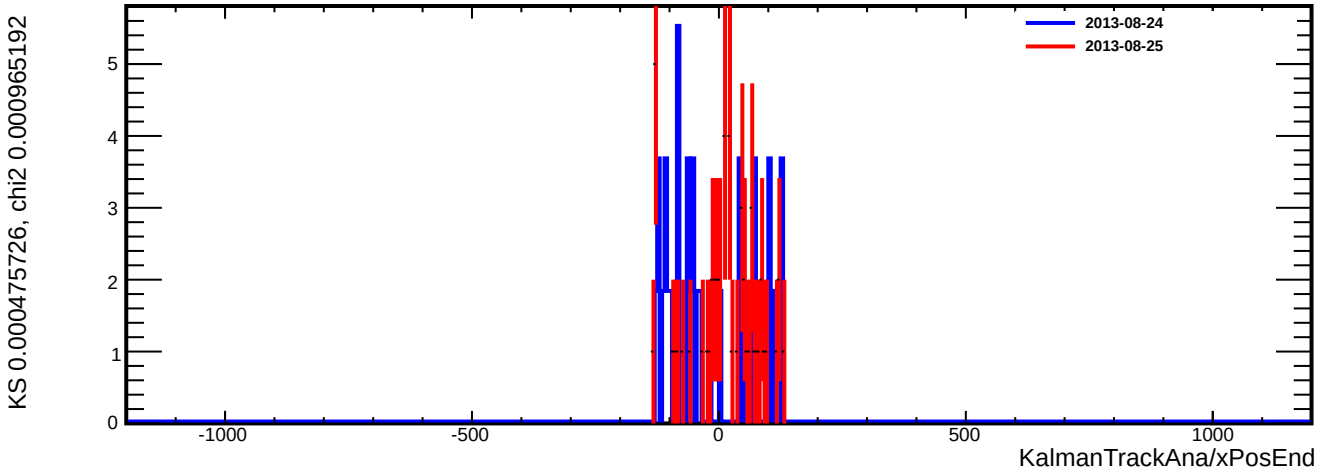

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1000
-500
0
500
1000
KalmanTrackAna/xPosStart

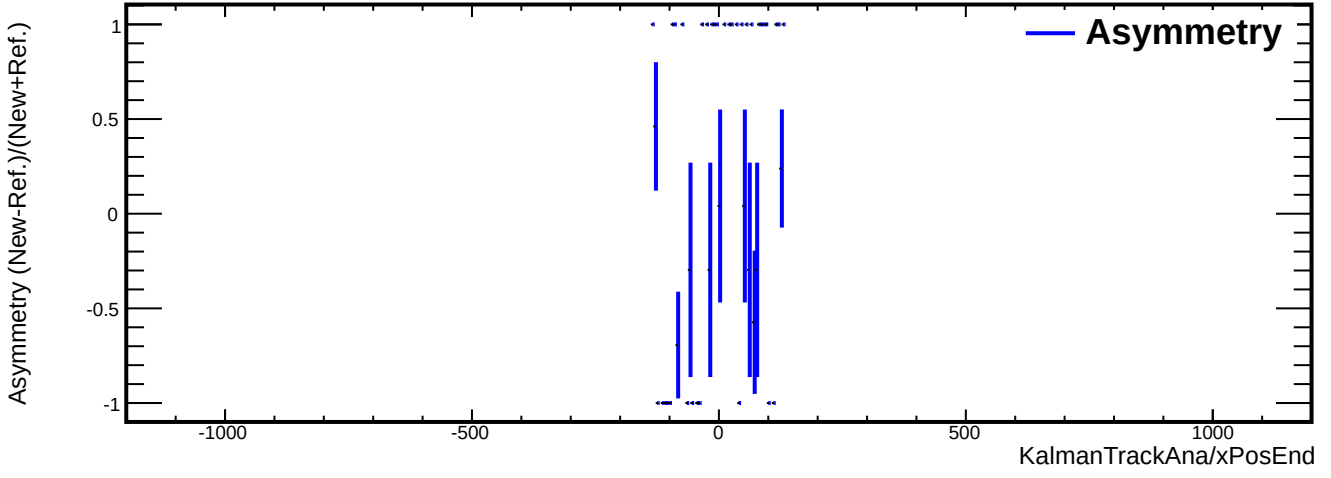

KS 0.0469325, chi2 0.0912721
2013-08-24
2013-08-25
0
1
2
3
4
-1000
-500
0
500
1000
KalmanTrackAna/yPosStart

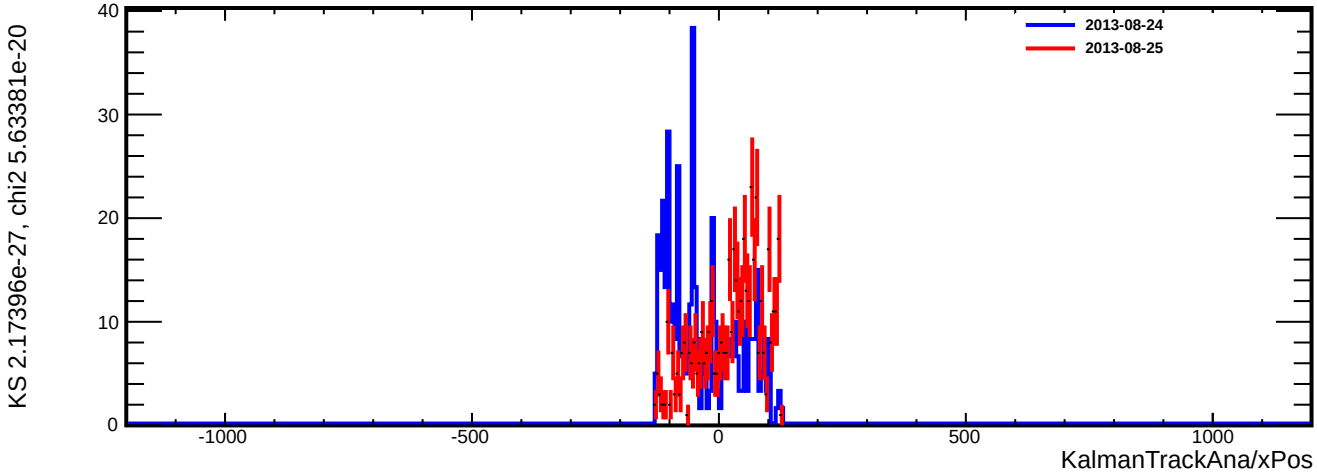

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1000
-500
0
500
1000
KalmanTrackAna/yPosStart

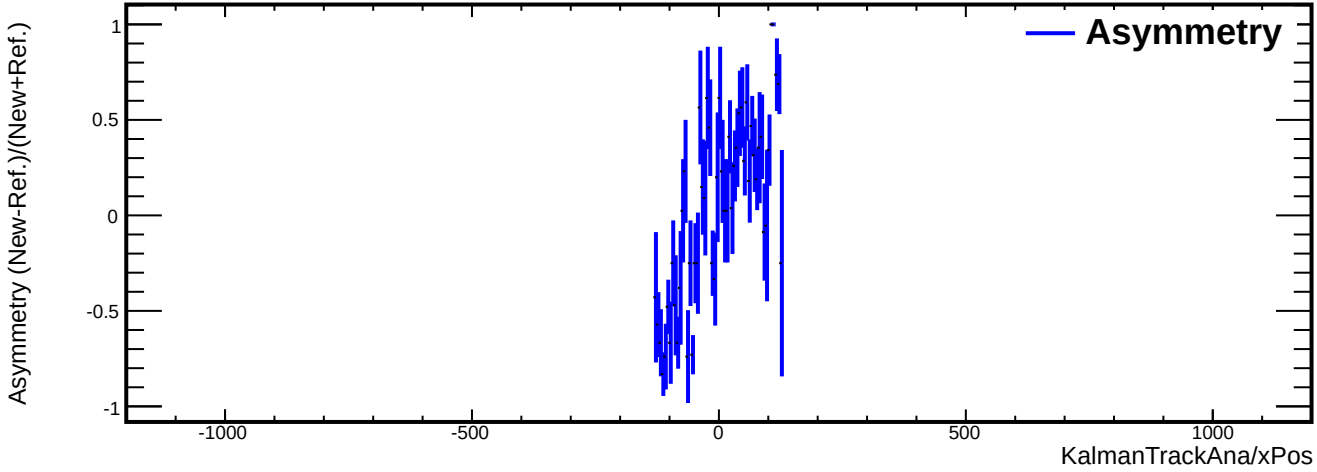

KS 0.231153, chi2 0.0156334
2013-08-24
2013-08-25
0
2
4
6
0
2000
4000
6000
KalmanTrackAna/zPosStart

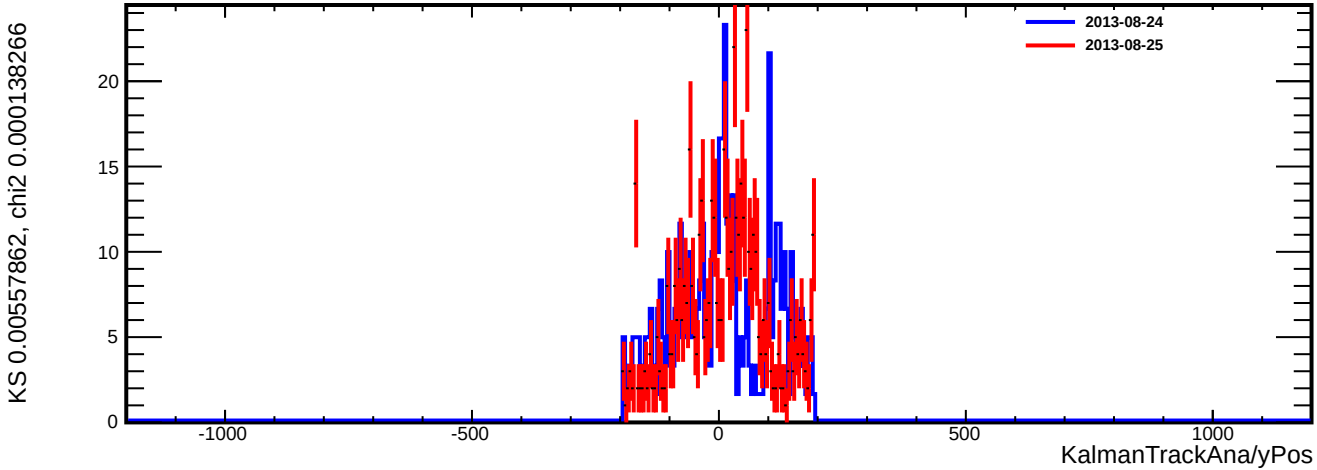

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
2000
4000
6000
KalmanTrackAna/zPosStart

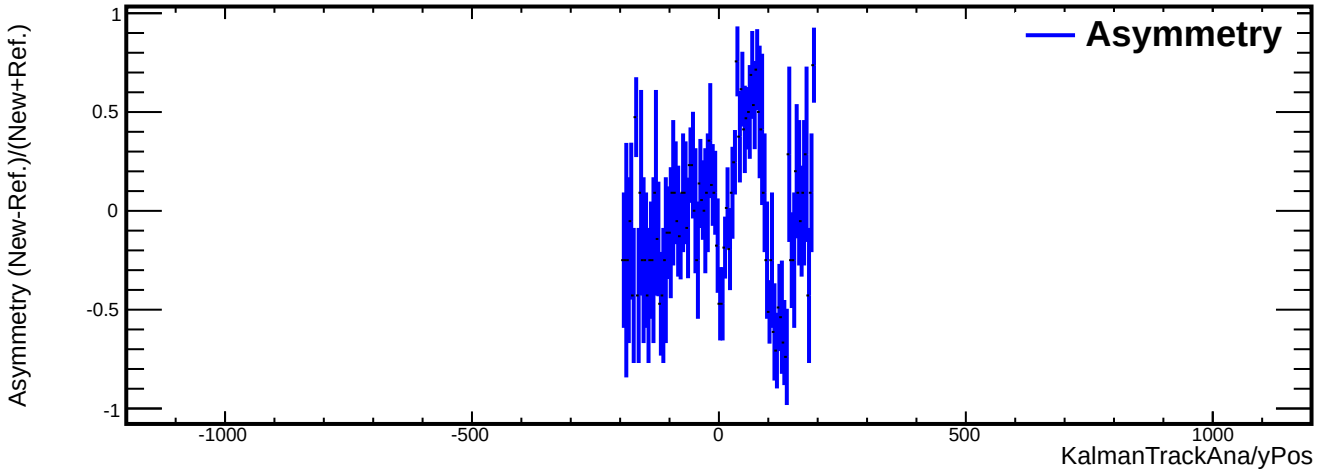

KS 0.000475726, chi2 0.000965192
2013-08-24
2013-08-25
0
1
2
3
4
5
-1000
-500
0
500
1000
KalmanTrackAna/xPosEnd

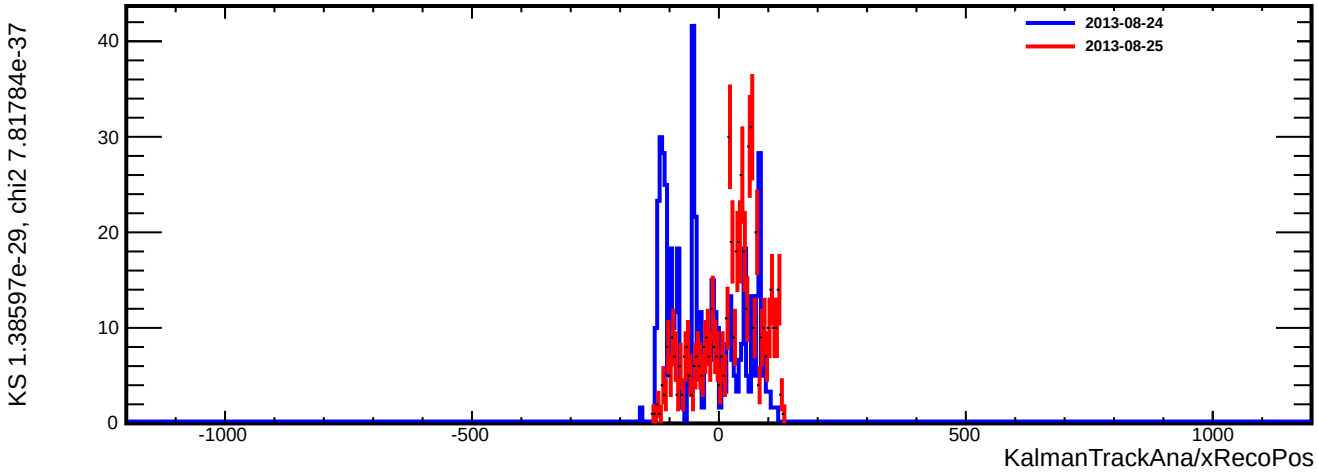

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1000
-500
0
500
1000
KalmanTrackAna/xPosEnd

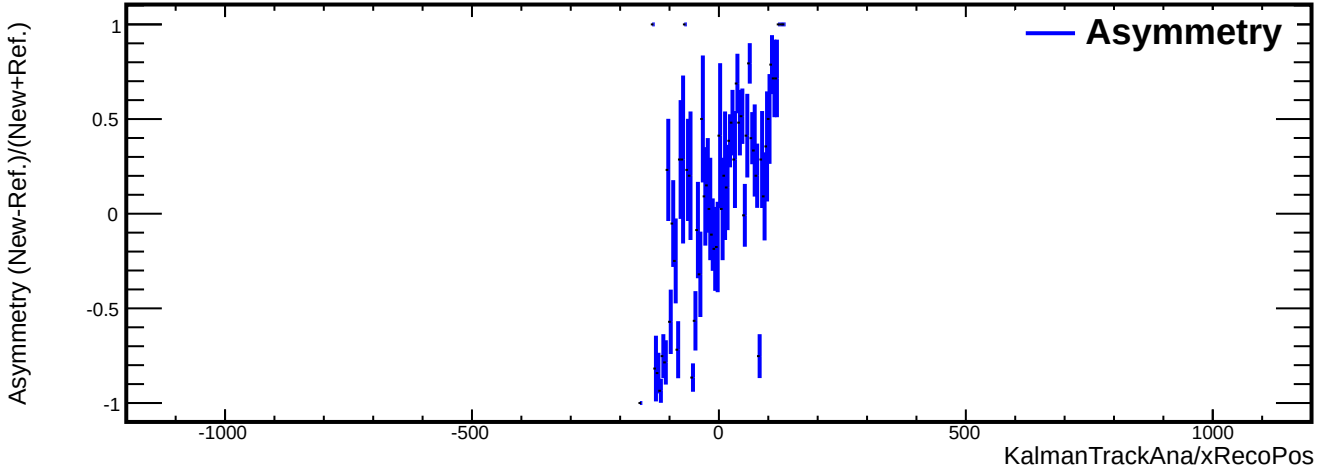

KS 2.17396e-27, chi2 5.63381e-20
2013-08-24
2013-08-25
KalmanTrackAna/xPos

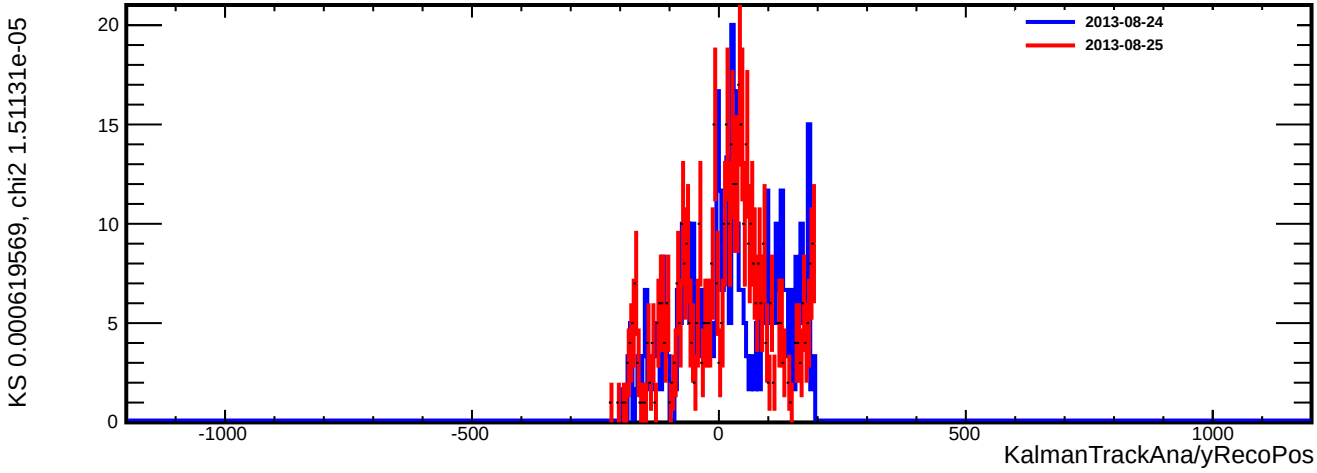

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/xPos

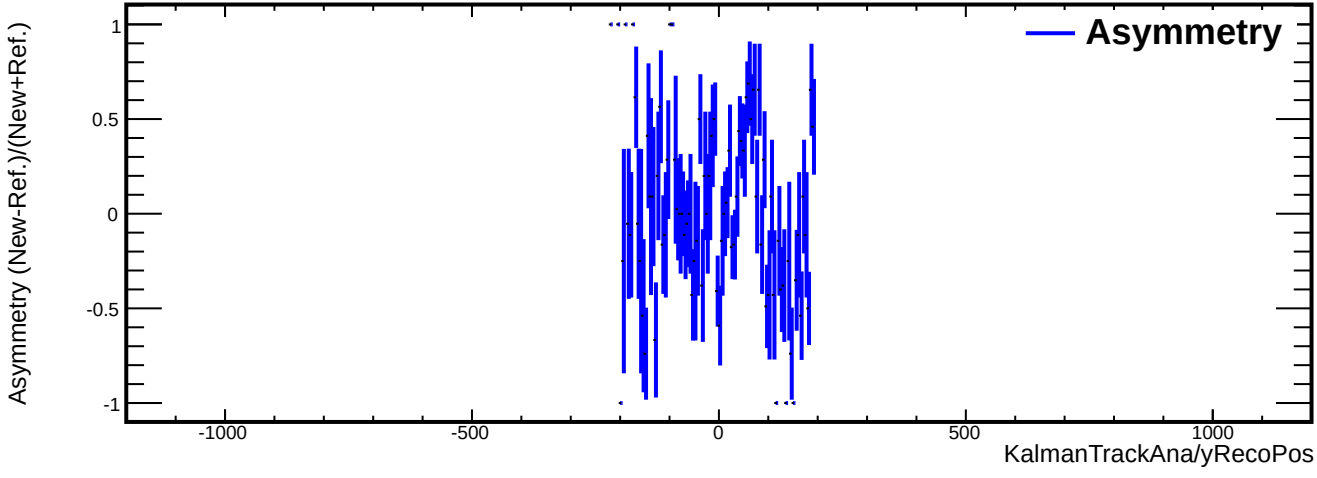

KS 0.00557862, chi2 0.000138266
2013-08-24
2013-08-25
0
5
10
15
20
-1000
-500
0
500
1000
KalmanTrackAna/yPos

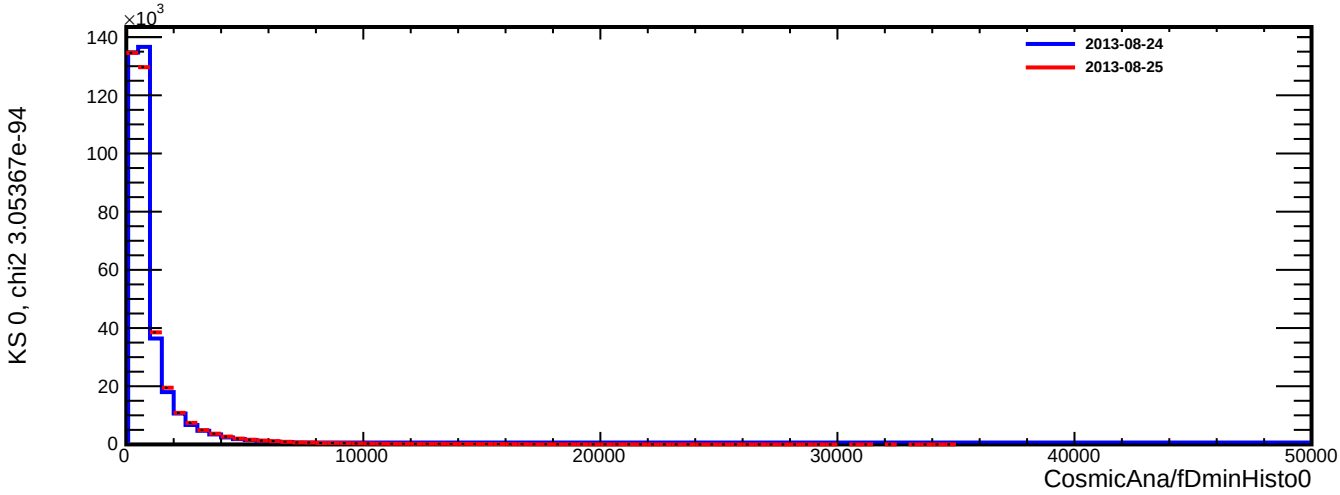

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1000
-500
0
500
1000
KalmanTrackAna/yPos

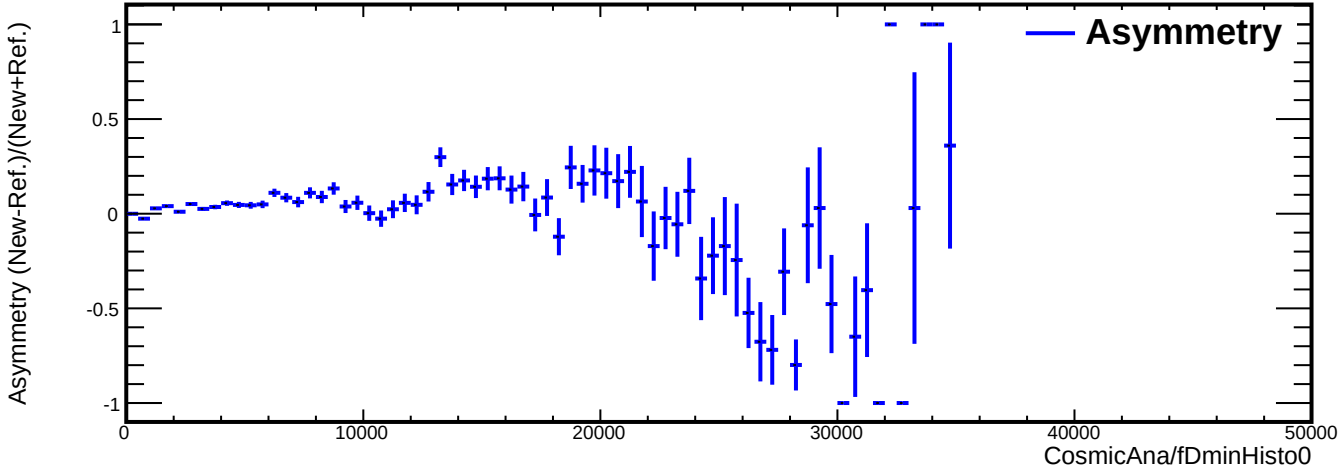

KS 1.38597e-29, chi2 7.81784e-37
2013-08-24
2013-08-25
40
30
20
10
0
-1000
-500
0
500
1000
KalmanTrackAna/xRecoPos

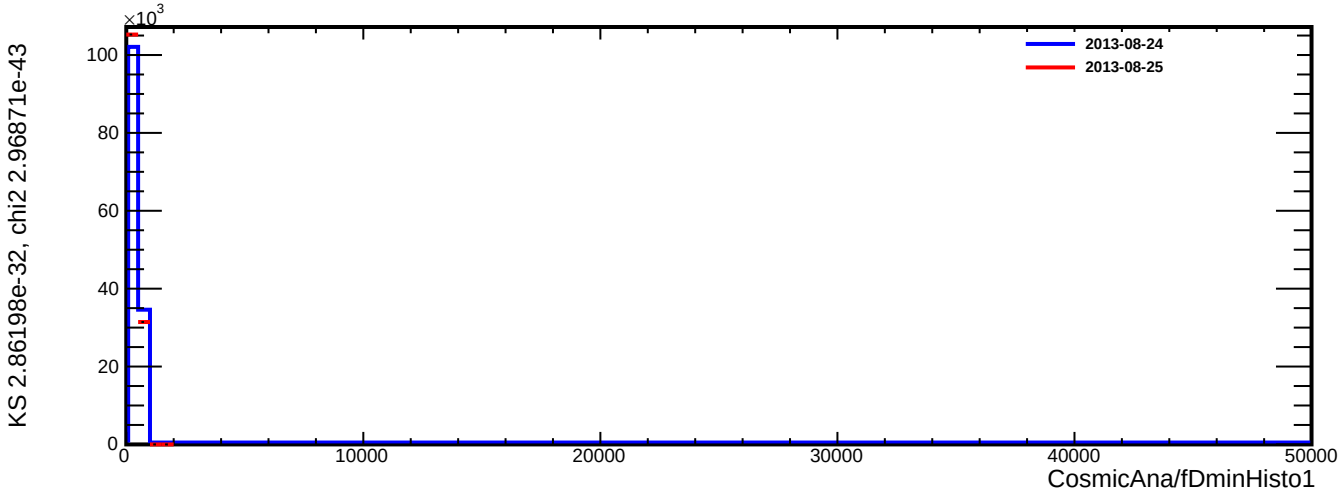

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1000
-500
0
500
1000
KalmanTrackAna/xRecoPos

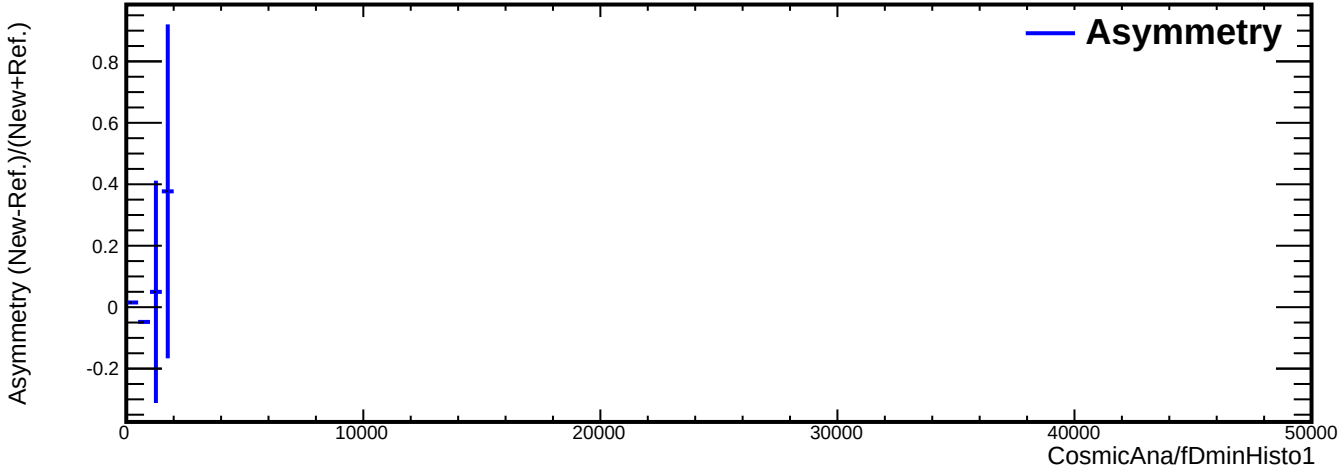

KS 0.000619569, chi2 1.51131e-05
2013-08-24
2013-08-25
KalmanTrackAna/yRecoPos

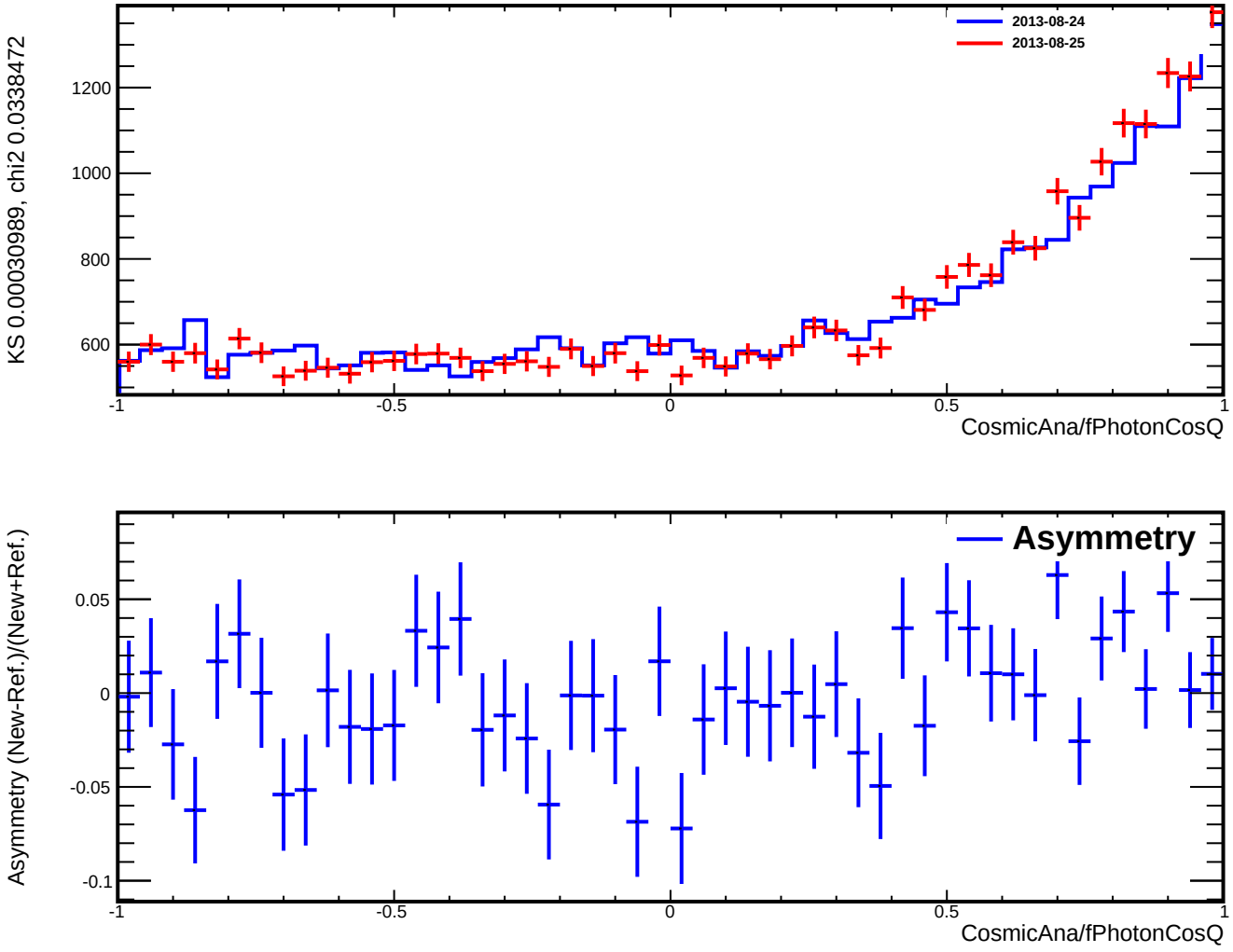

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/yRecoPos

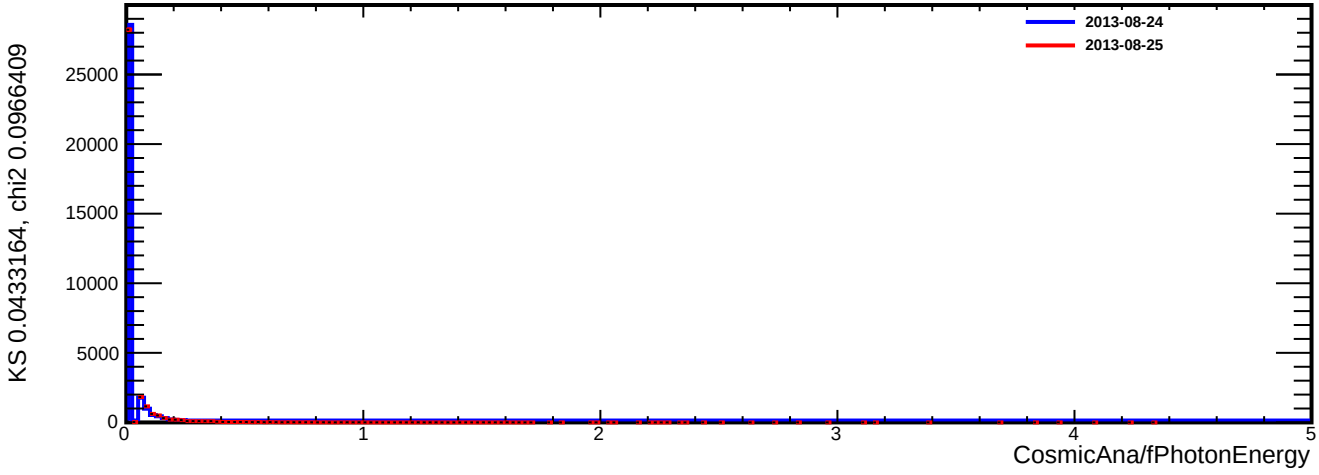

×10^3
140
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
2013-08-24
2013-08-25
KS 0, chi2 3.05367e-94
CosmicAna/fDminHisto0

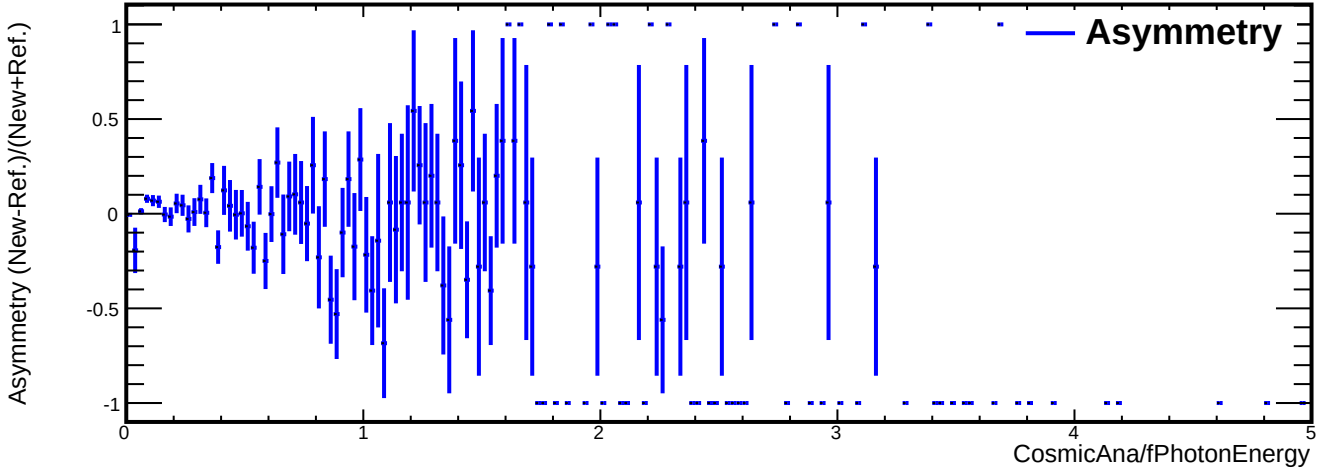

1
0.5
0
-0.5
-1
0
10000
20000
30000
40000
50000
Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
CosmicAna/fDminHisto0

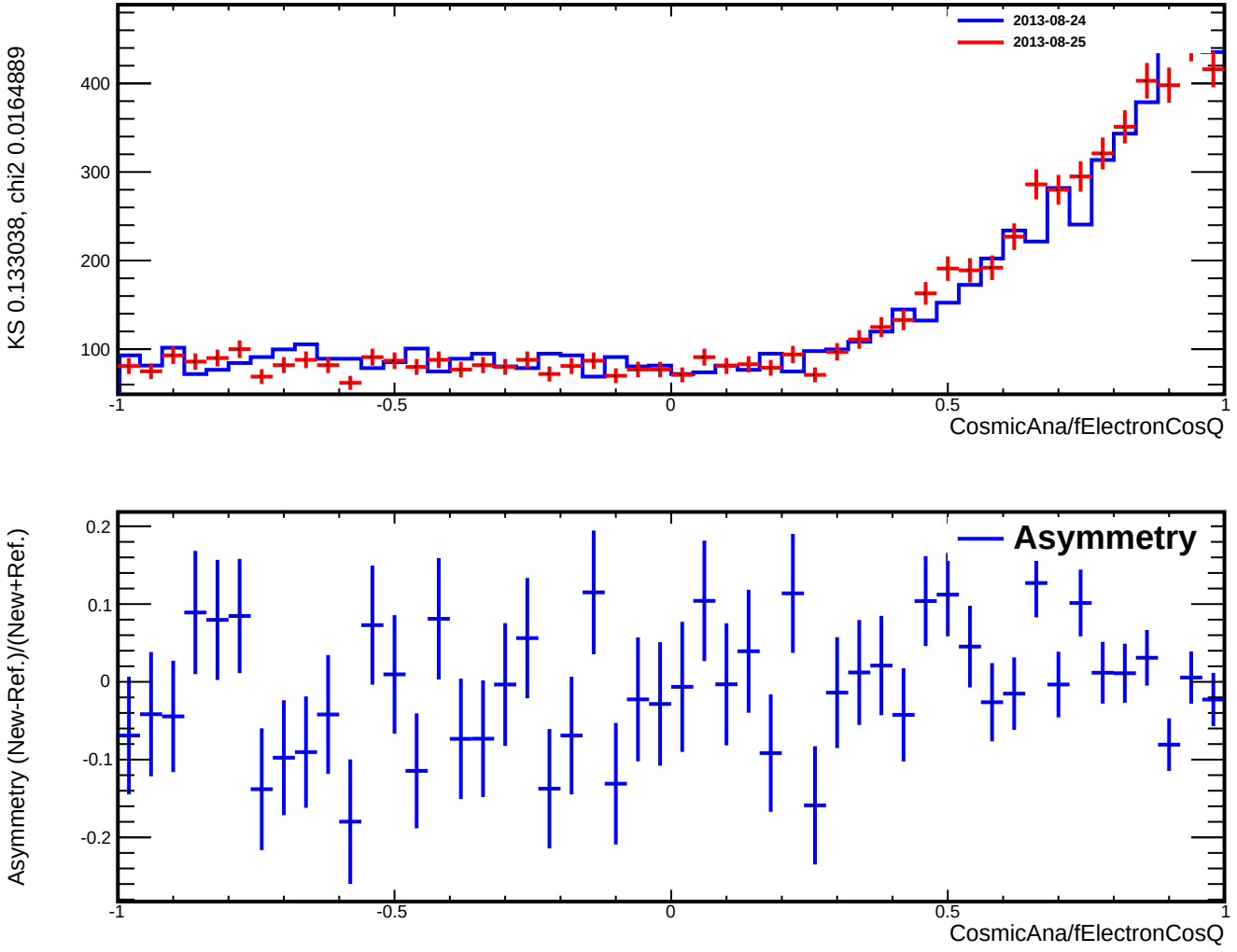

KS 2.86198e-32, chi2 2.96871e-43
×10^3
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto1
2013-08-24
2013-08-25

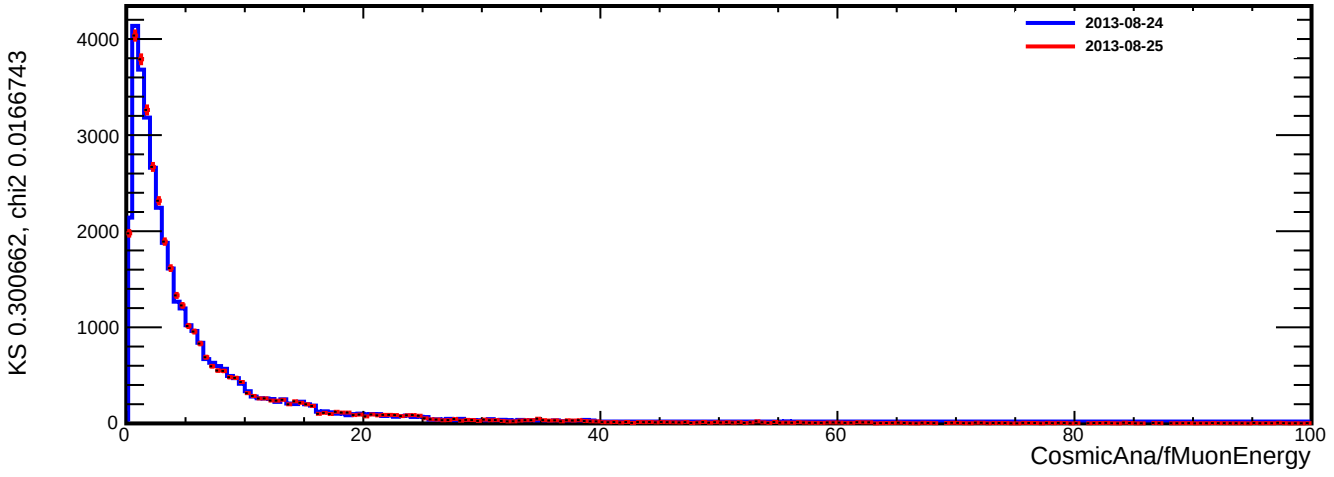

Asymmetry (New-Ref.)/(New+Ref.)
0.8
0.6
0.4
0.2
0
-0.2
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto1
Asymmetry

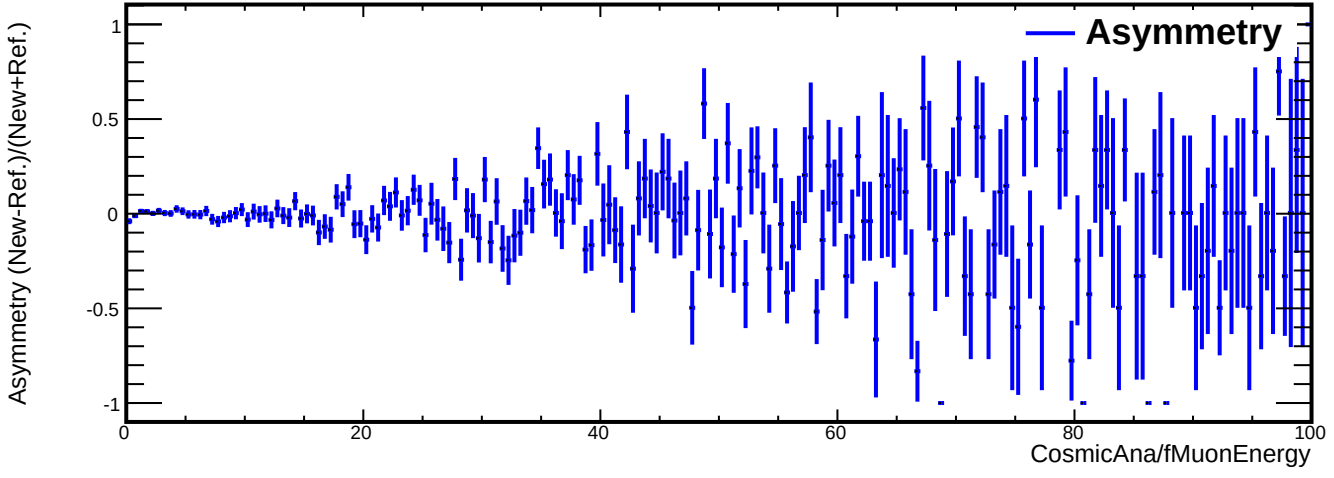

KS 0.00030989, chi2 0.0338472
2013-08-24
2013-08-25
1200
1000
800
600
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.05
0
-0.05
-0.1
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ

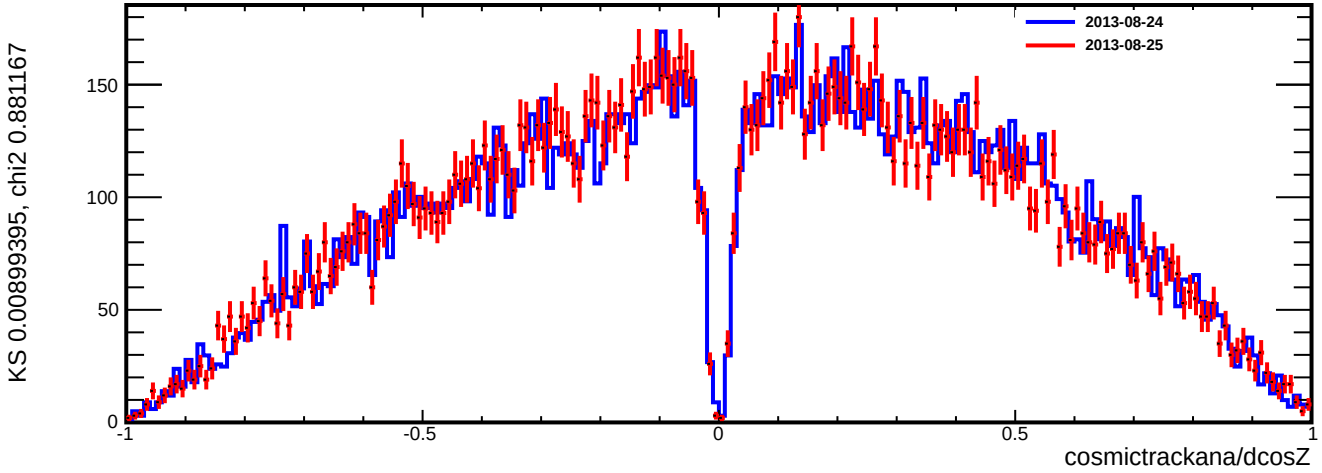

KS 0.0433164, chi2 0.0966409
2013-08-24
2013-08-25
25000
20000
15000
10000
5000
0
0
1
2
3
4
5
CosmicAna/fPhotonEnergy

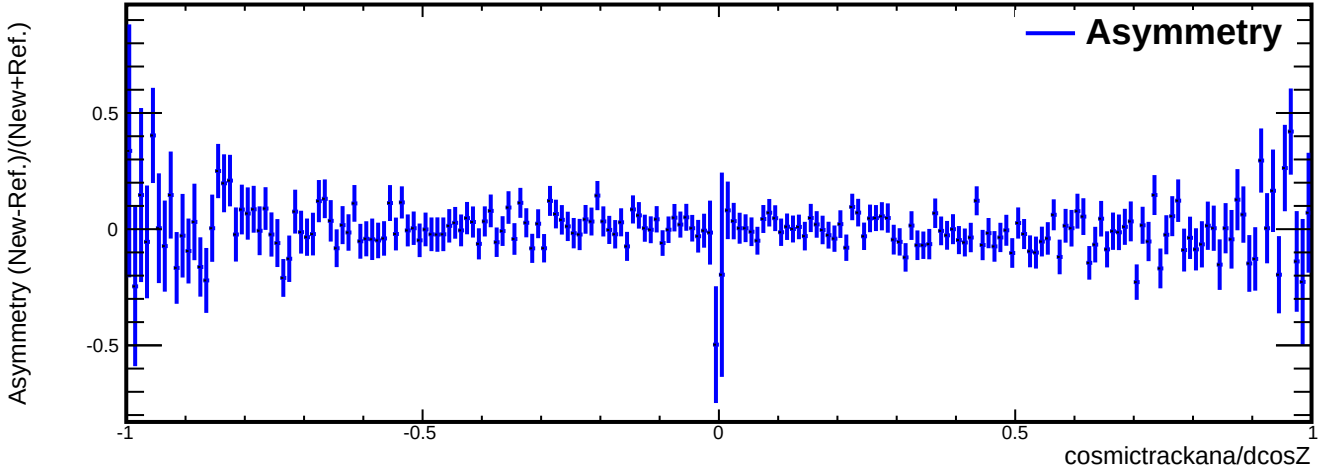

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
1
2
3
4
5
CosmicAna/fPhotonEnergy

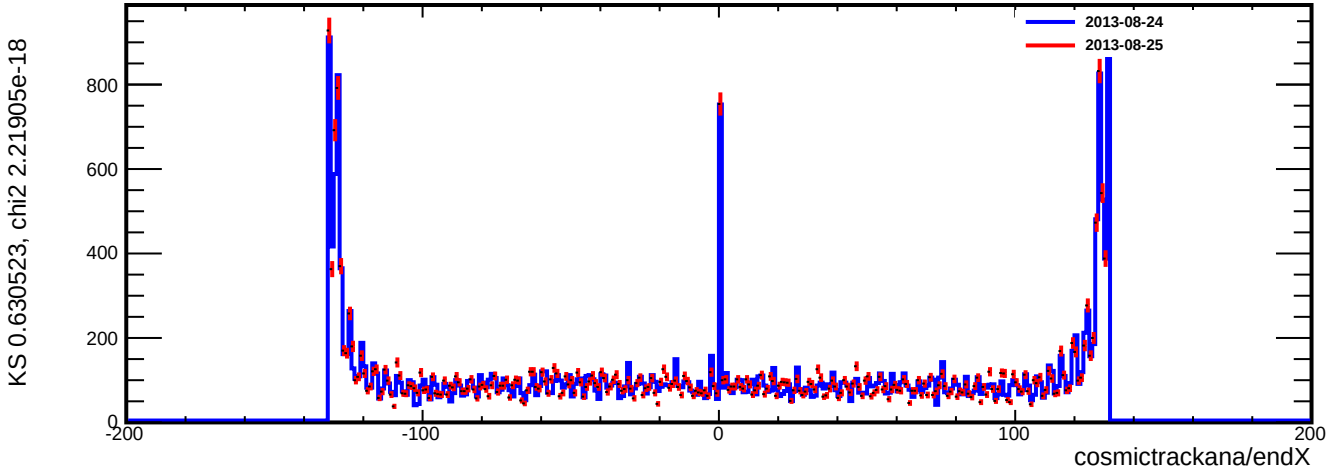

KS 0.133038, chi2 0.0164889
2013-08-24
2013-08-25
400
300
200
100
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0.1
0
-0.1
-0.2
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ

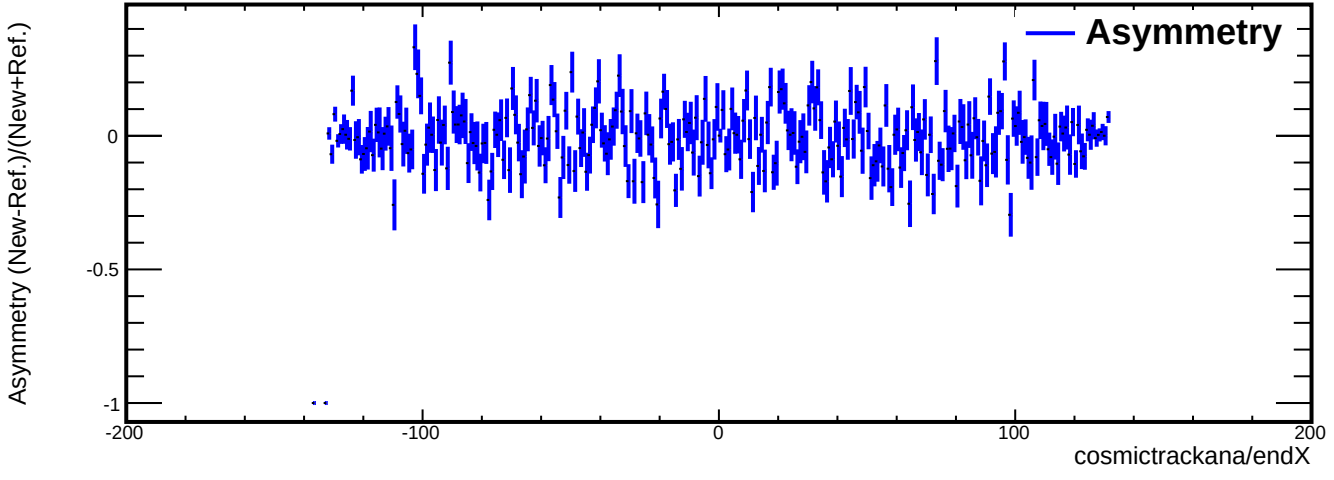

KS 0.300662, chi2 0.0166743
2013-08-24
2013-08-25
4000
3000
2000
1000
0
0
20
40
60
80
100
CosmicAna/fMuonEnergy

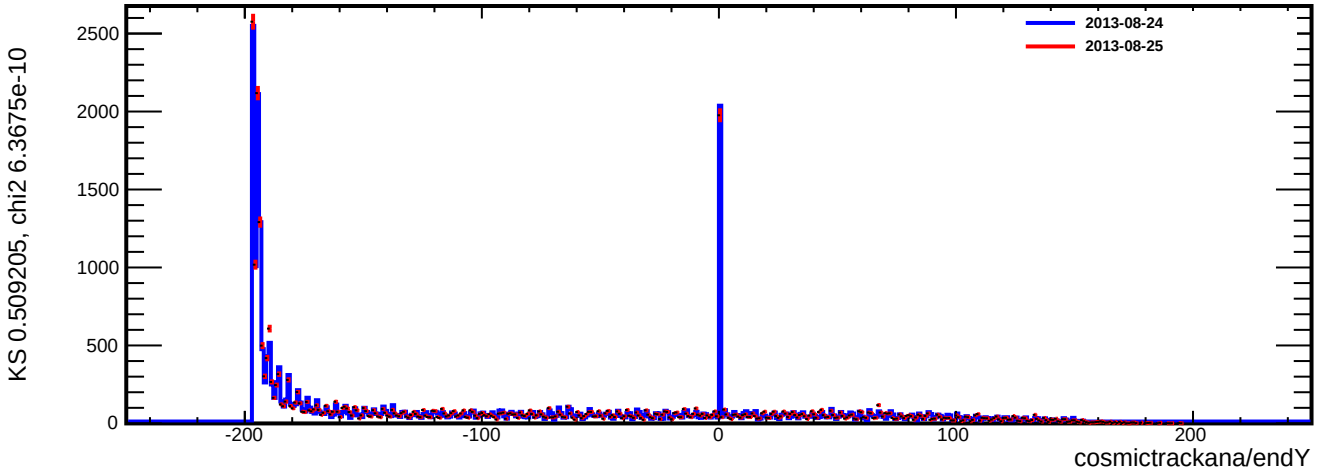

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
20
40
60
80
100
CosmicAna/fMuonEnergy

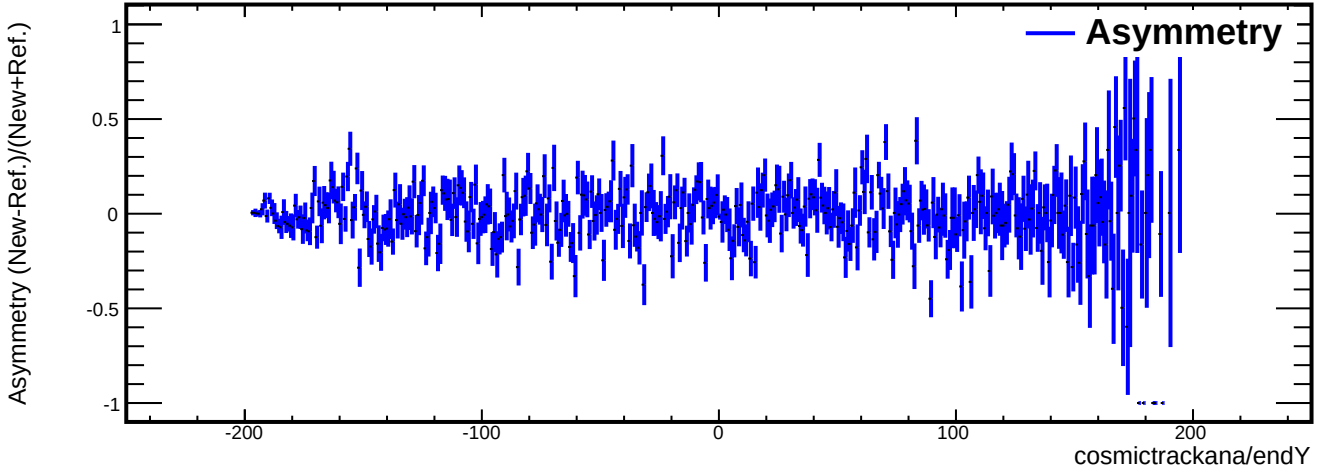

KS 0.00899395, chi2 0.881167
2013-08-24
2013-08-25
150
100
50
0
-1
-0.5
0
0.5
1
cosmictrackana/dcosZ

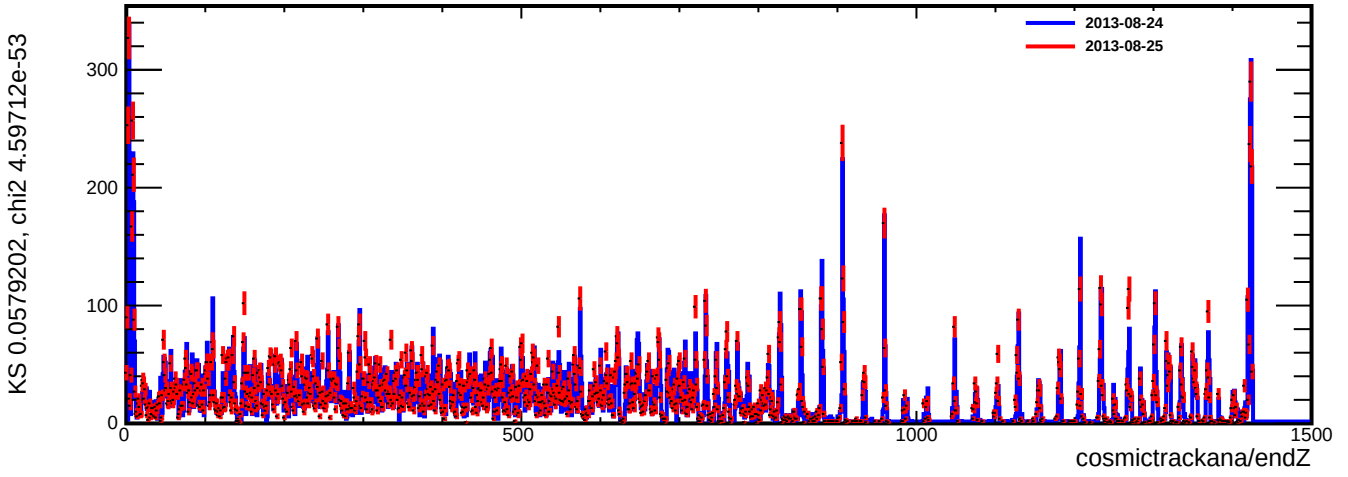

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
-1
-0.5
0
0.5
1
cosmictrackana/dcosZ

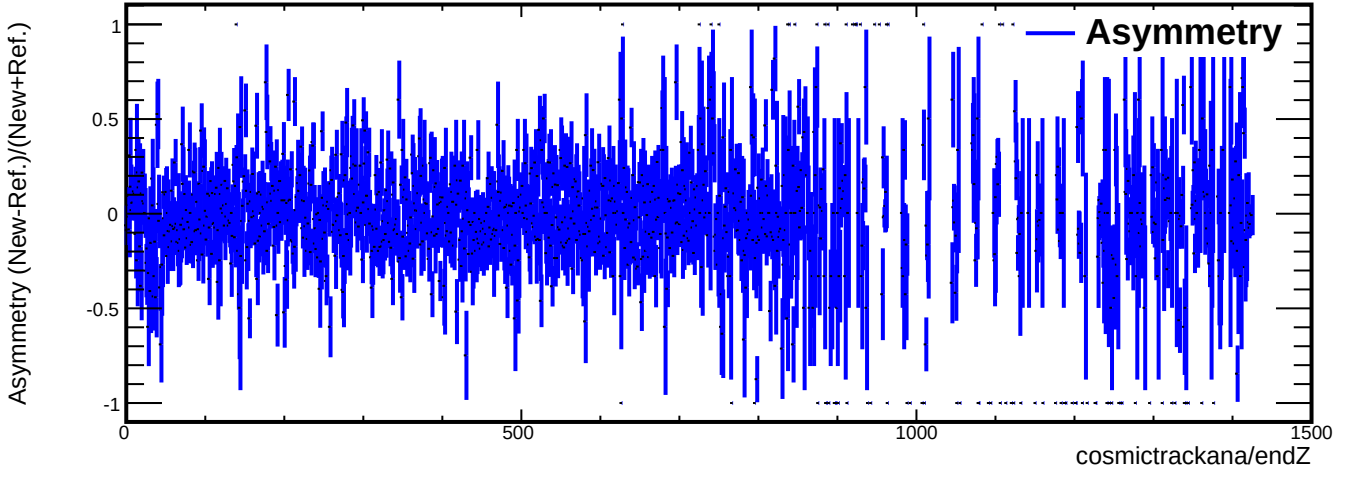

KS 0.630523, chi2 2.21905e-18
2013-08-24
2013-08-25
800
600
400
200
0
-200
-100
0
100
200
cosmictrackana/endX

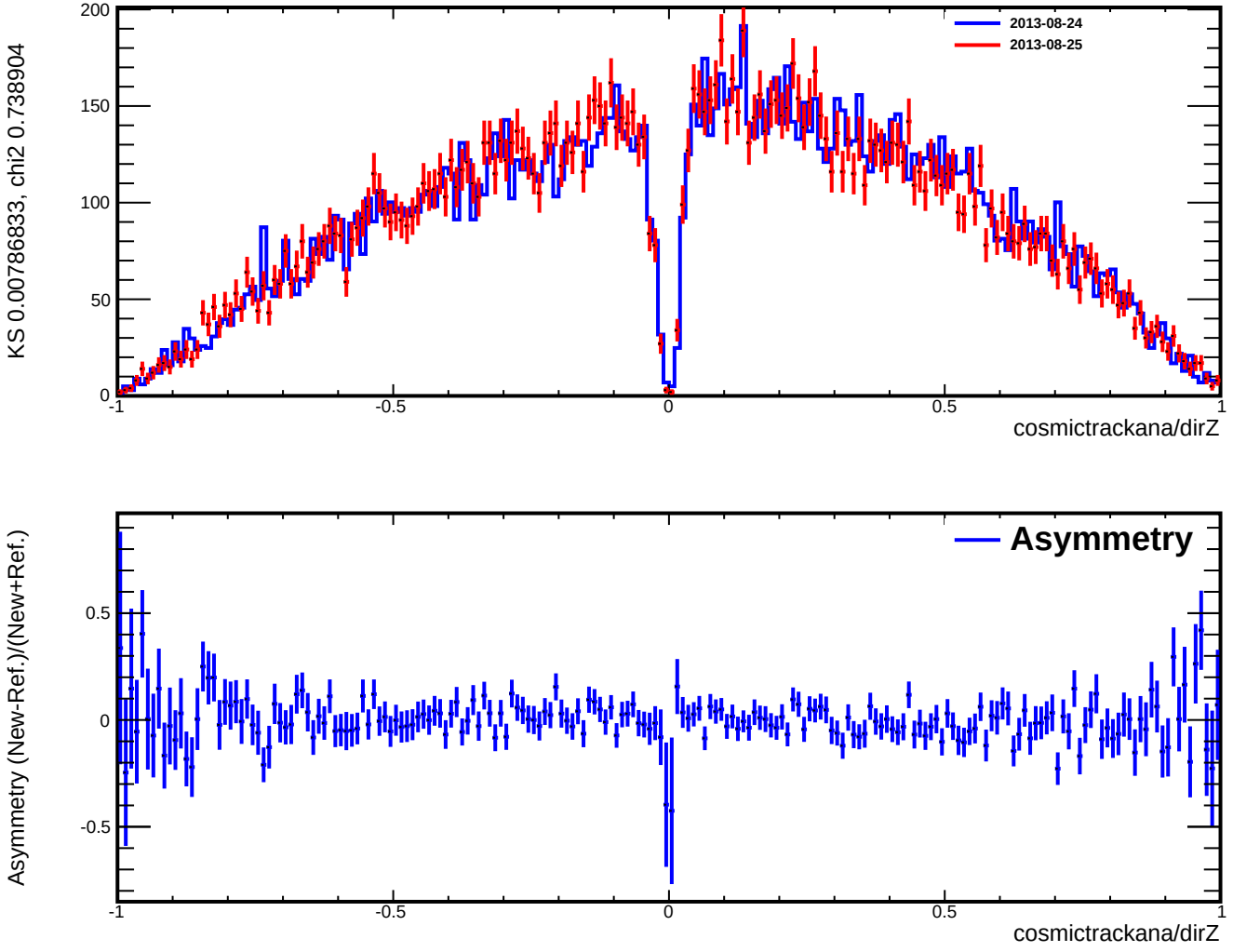

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/endX

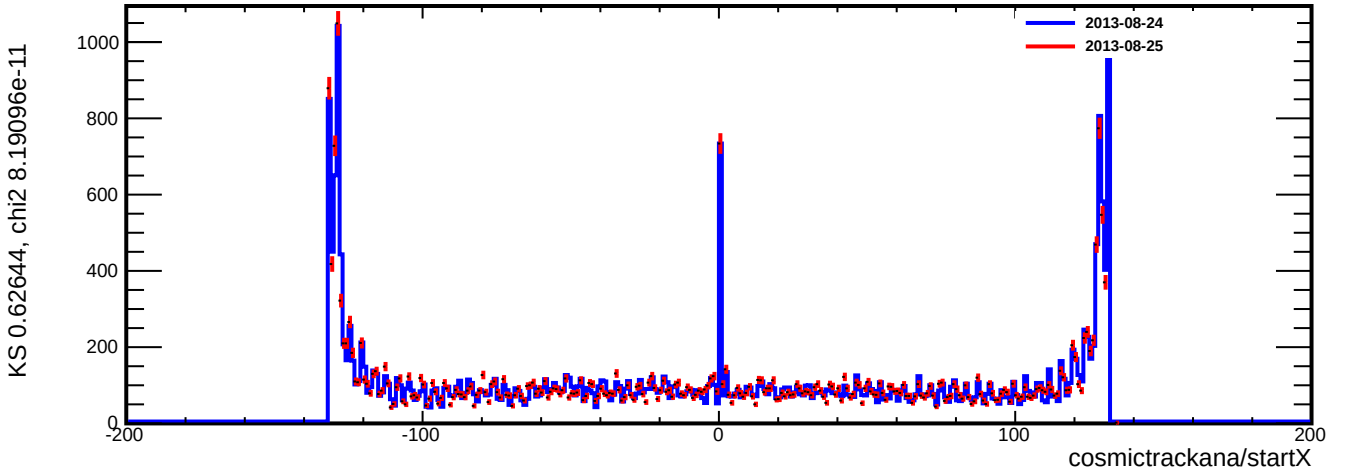

KS 0.509205, chi2 6.3675e-10
2013-08-24
2013-08-25
2500
2000
1500
1000
500
0
-200
-100
0
100
200
cosmictrackana/endY

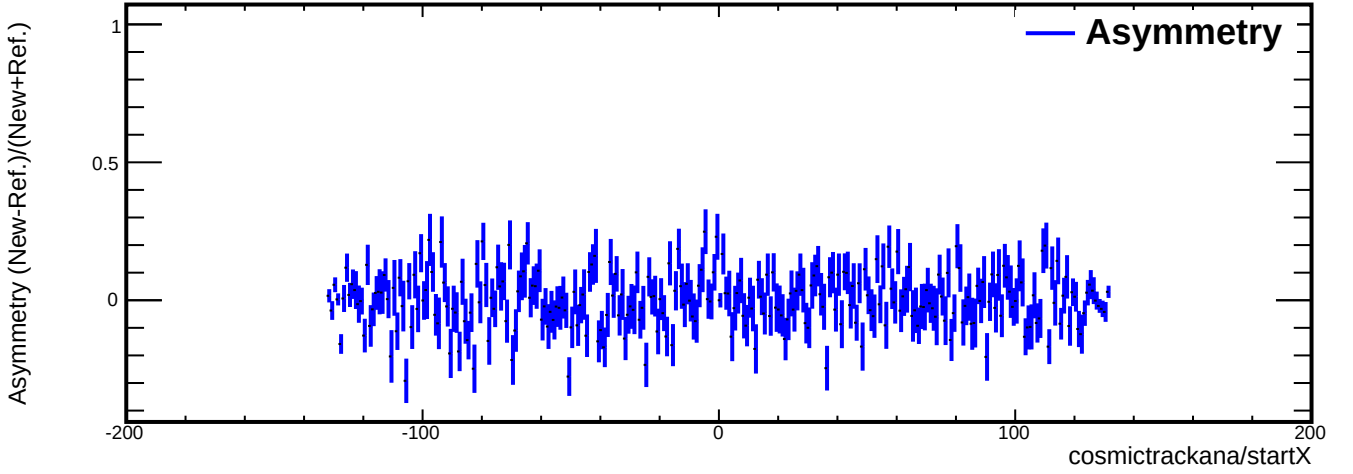

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/endY

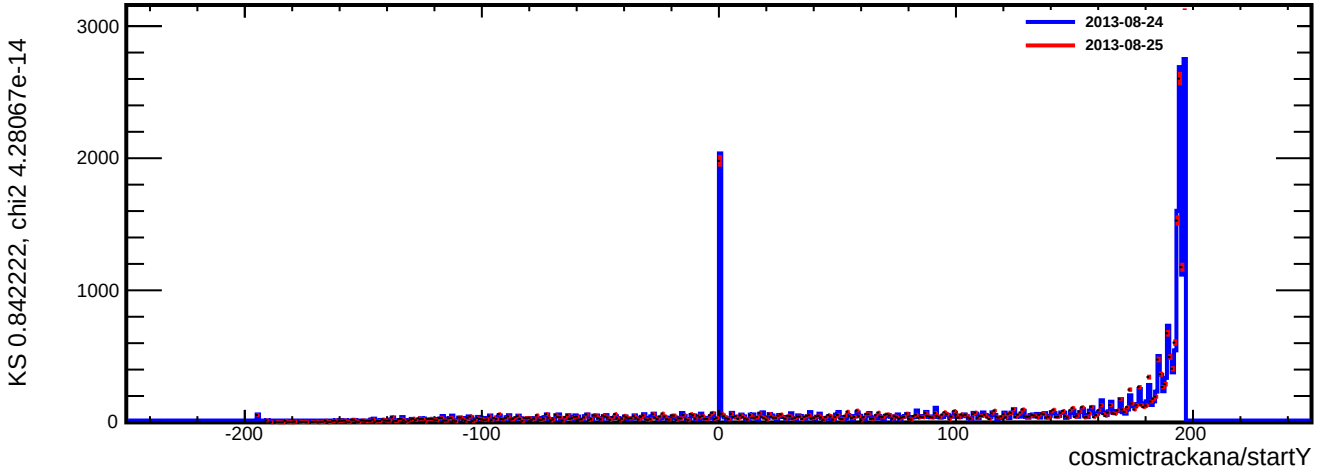

KS 0.0579202, chi2 4.59712e-53
2013-08-24
2013-08-25
300
200
100
0
0
500
1000
1500
cosmictrackana/endZ

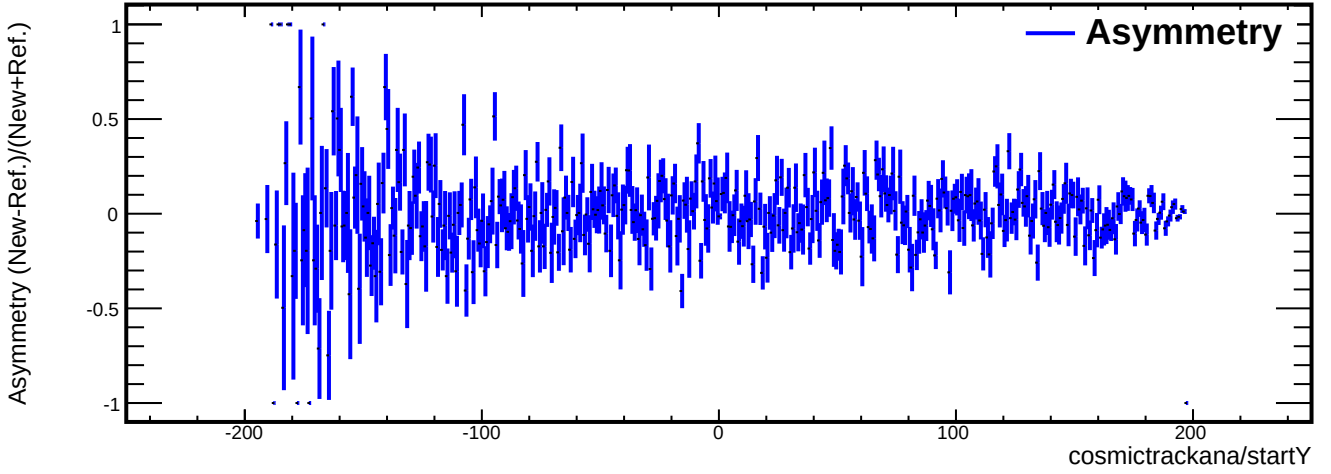

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/endZ

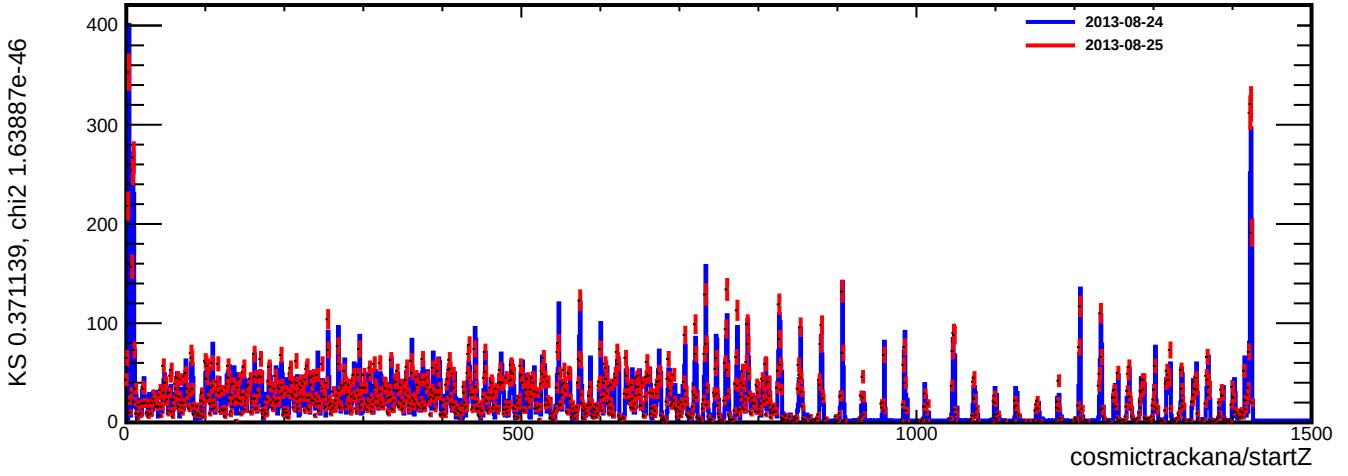

KS 0.00786833, chi2 0.738904
2013-08-24
2013-08-25
cosmictrackana/dirZ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/dirZ

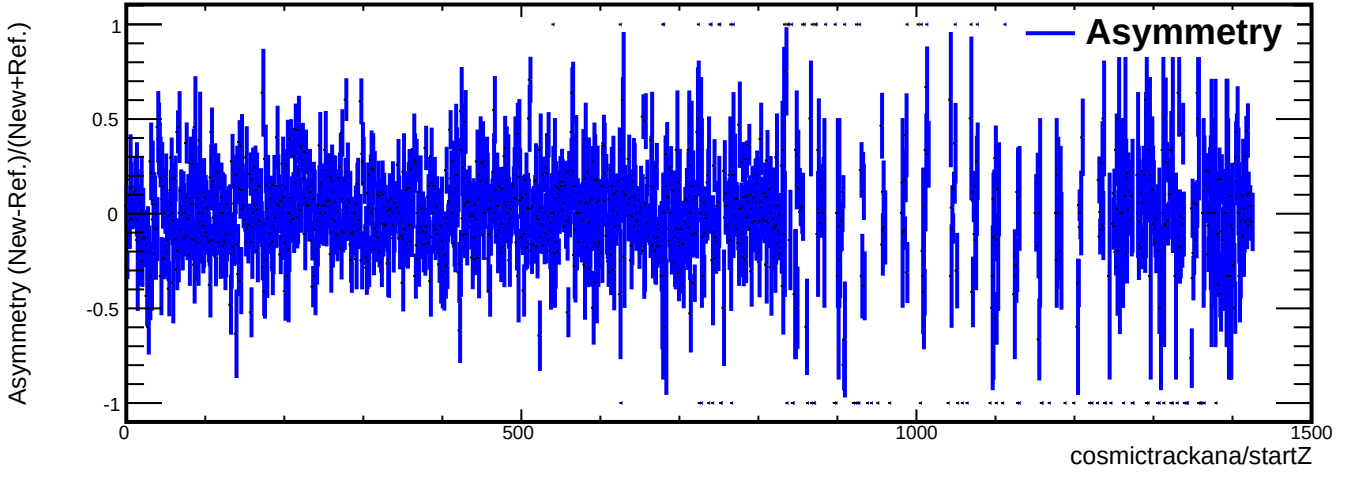

KS 0.62644, chi2 8.19096e-11
2013-08-24
2013-08-25
1000
800
600
400
200
0
-200
-100
0
100
200
cosmictrackana/startX

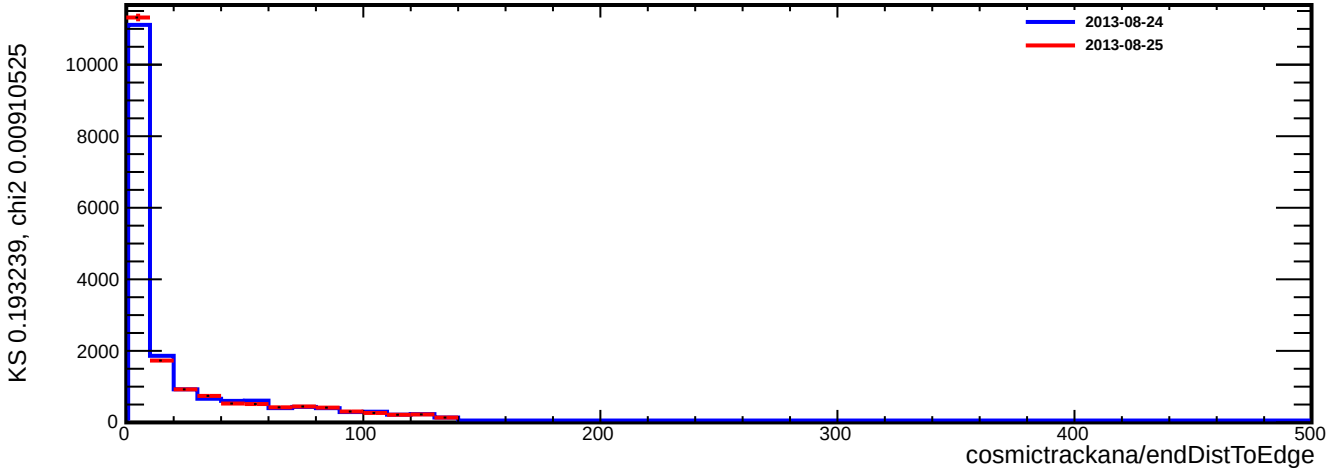

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-200
-100
0
100
200
cosmictrackana/startX

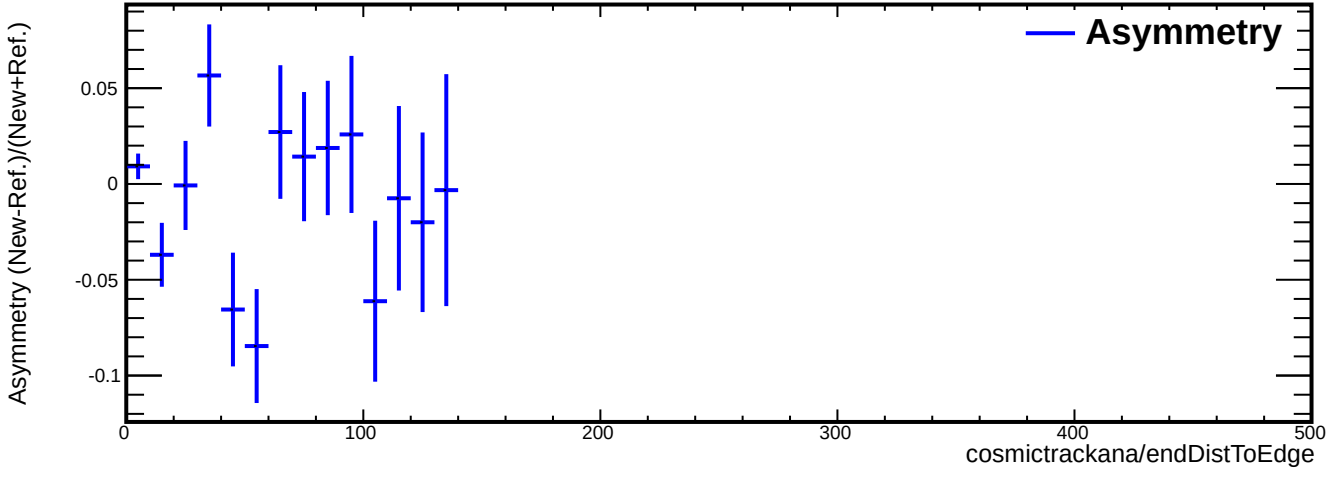

KS 0.842222, chi2 4.28067e-14
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/startY
2013-08-24
2013-08-25

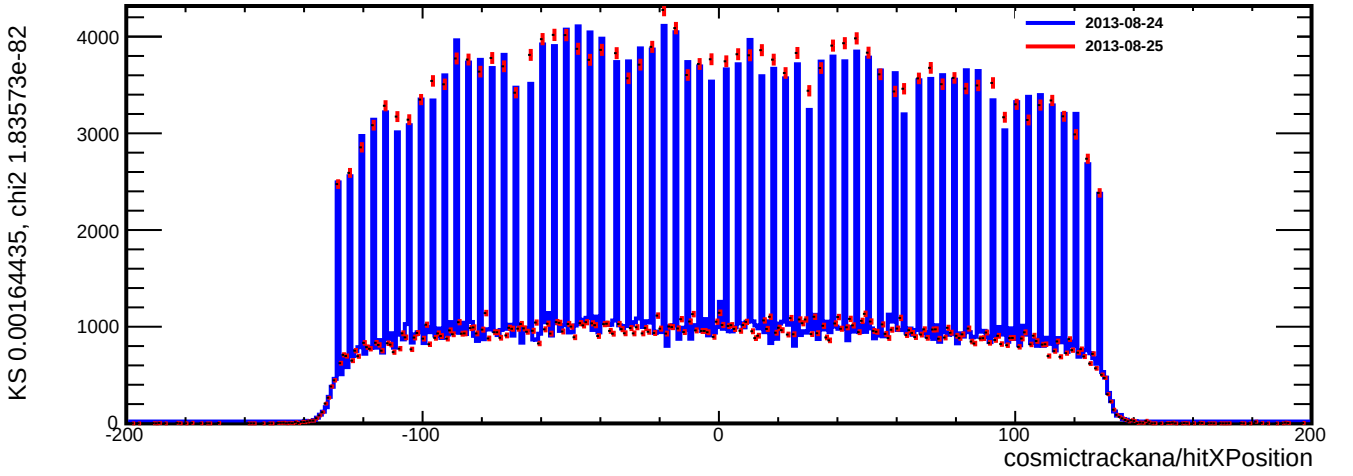

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/startY
Asymmetry

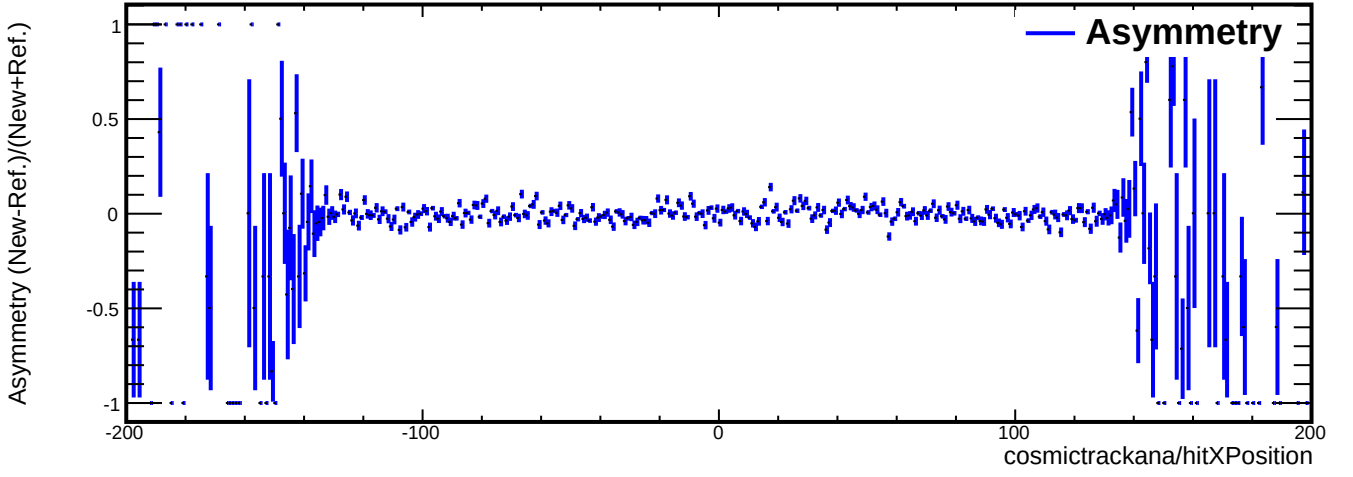

KS 0.371139, chi2 1.63887e-46
400
300
200
100
0
0
500
1000
1500
cosmictrackana/startZ
2013-08-24
2013-08-25

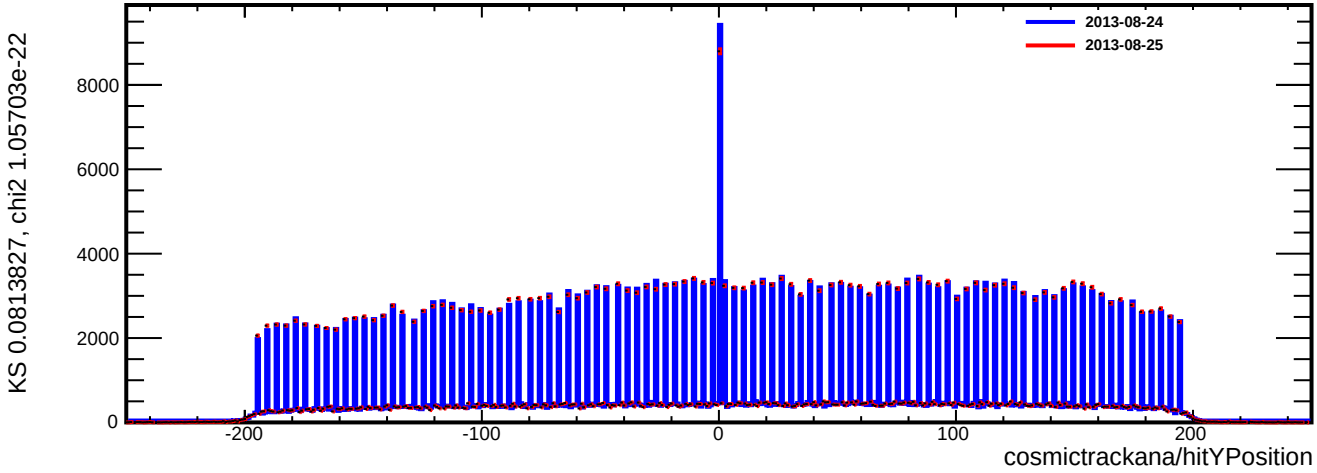

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/startZ
Asymmetry

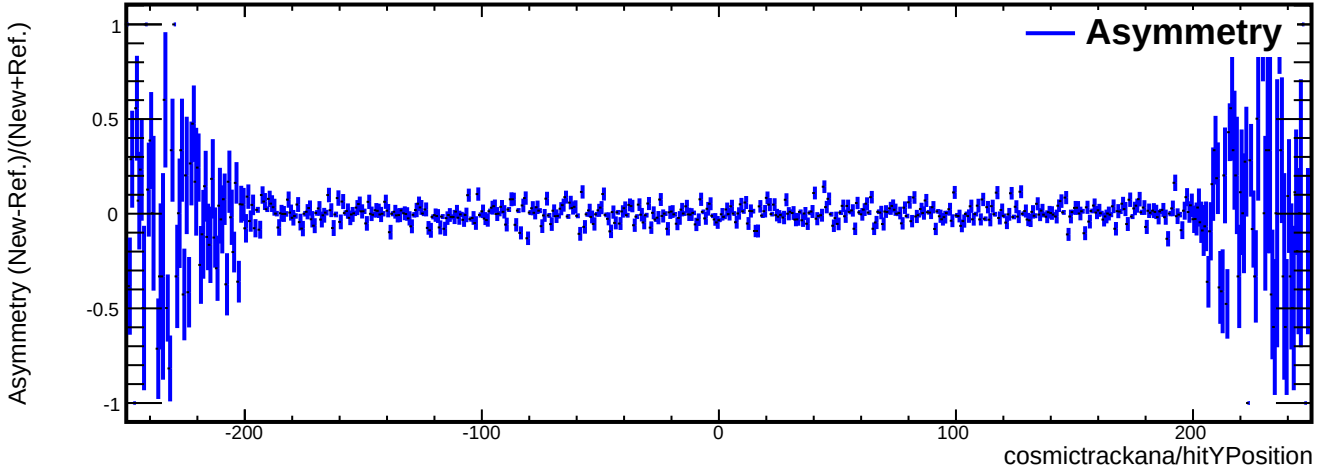

KS 0.193239, chi2 0.00910525
2013-08-24
2013-08-25
10000
8000
6000
4000
2000
0
0
100
200
300
400
500
cosmictrackana/endDistToEdge

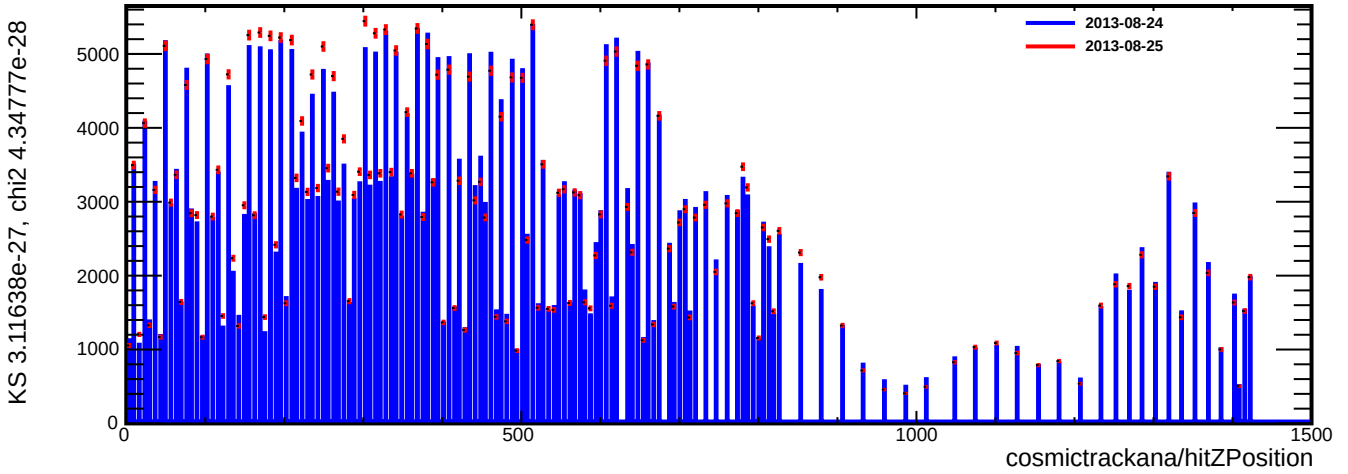

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.05
0
-0.05
-0.1
0
100
200
300
400
500
cosmictrackana/endDistToEdge

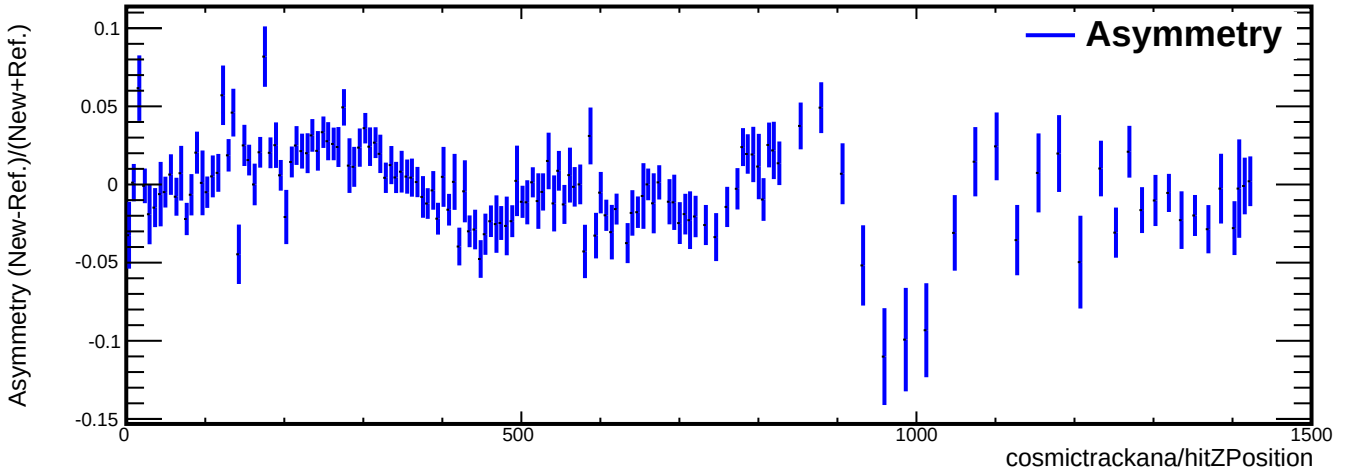

KS 0.00164435, chi2 1.83573e-82
2013-08-24
2013-08-25
4000
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/hitXPosition

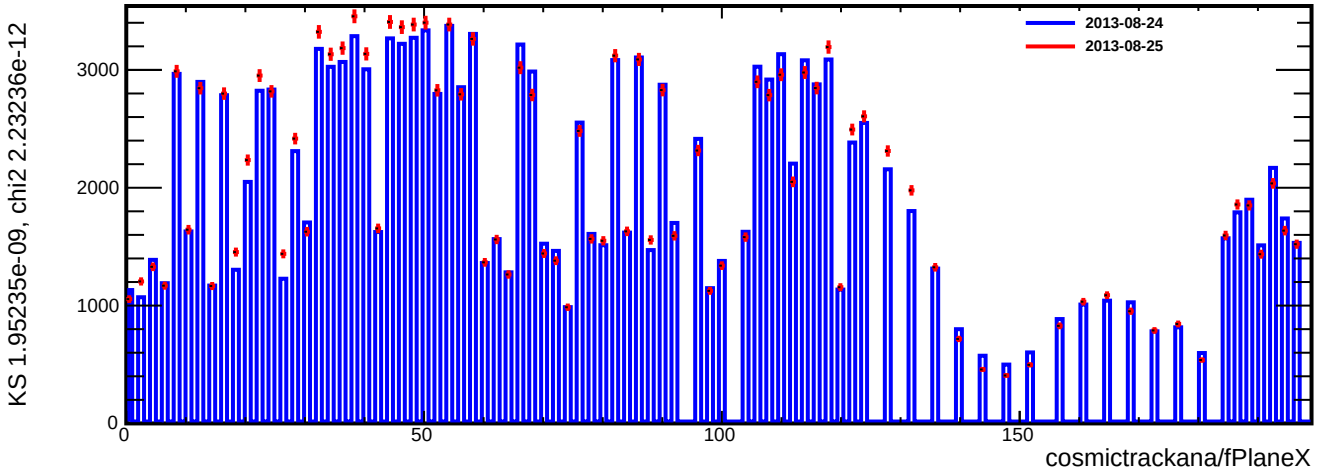

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitXPosition

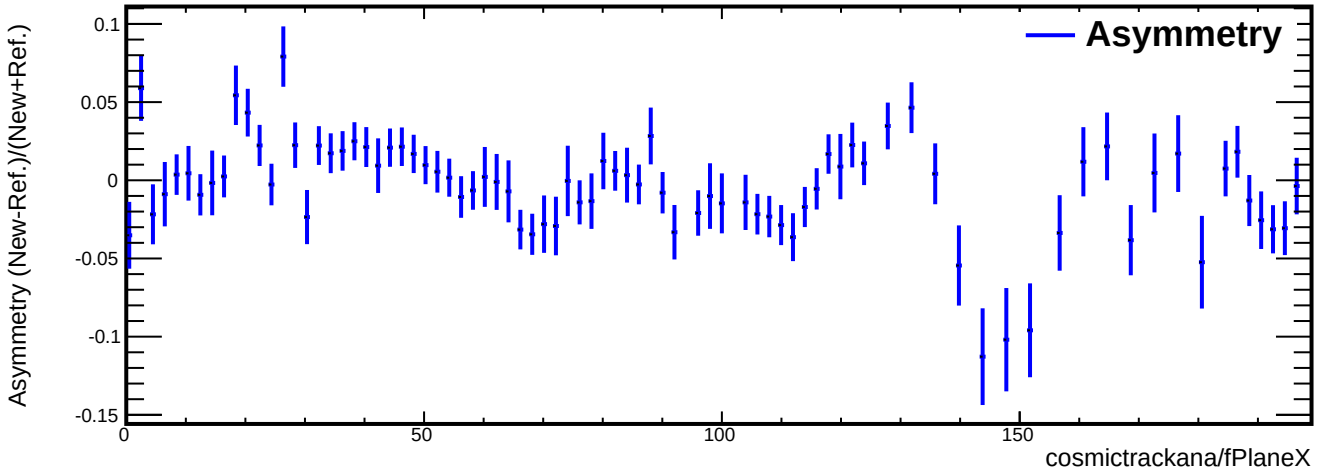

KS 0.0813827, chi2 1.05703e-22
2013-08-24
2013-08-25
8000
6000
4000
2000
0
-200
-100
0
100
200
cosmictrackana/hitYPosition

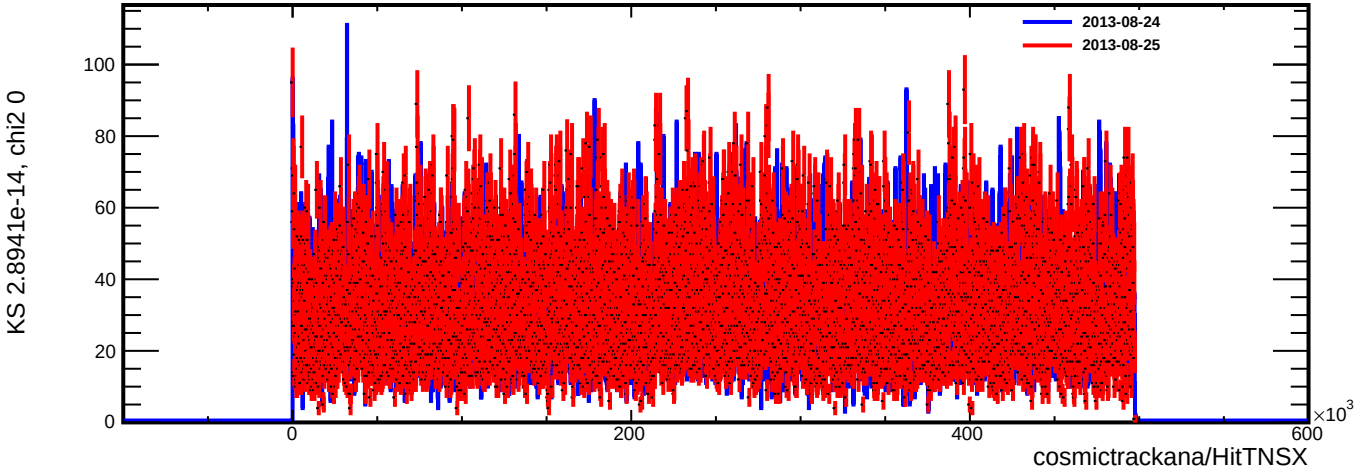

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitYPosition

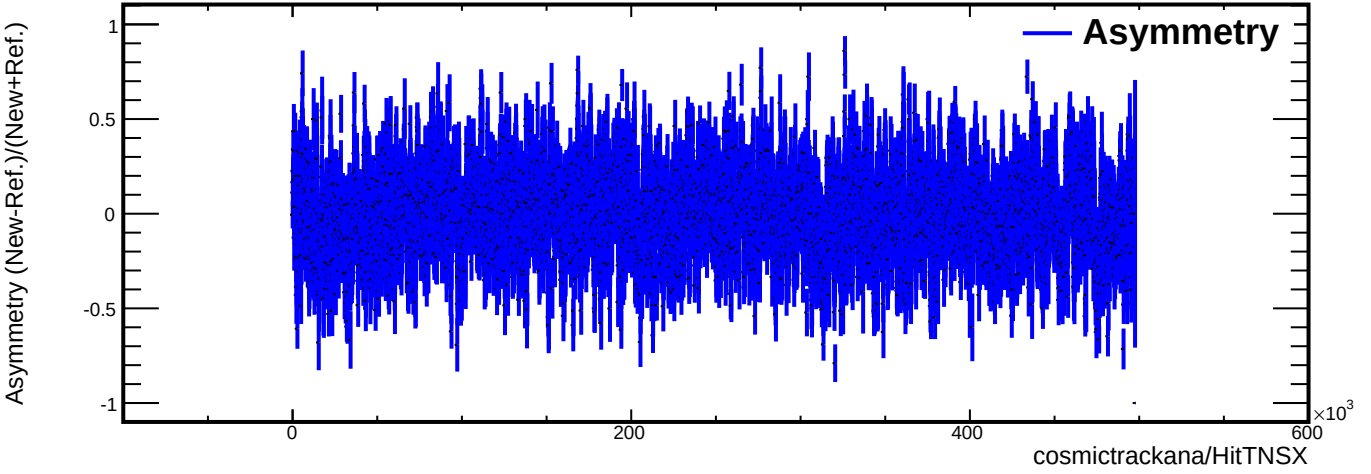

KS 3.11638e-27, chi2 4.34777e-28
2013-08-24
2013-08-25
0
1000
2000
3000
4000
5000
0
500
1000
1500
cosmictrackana/hitZPosition

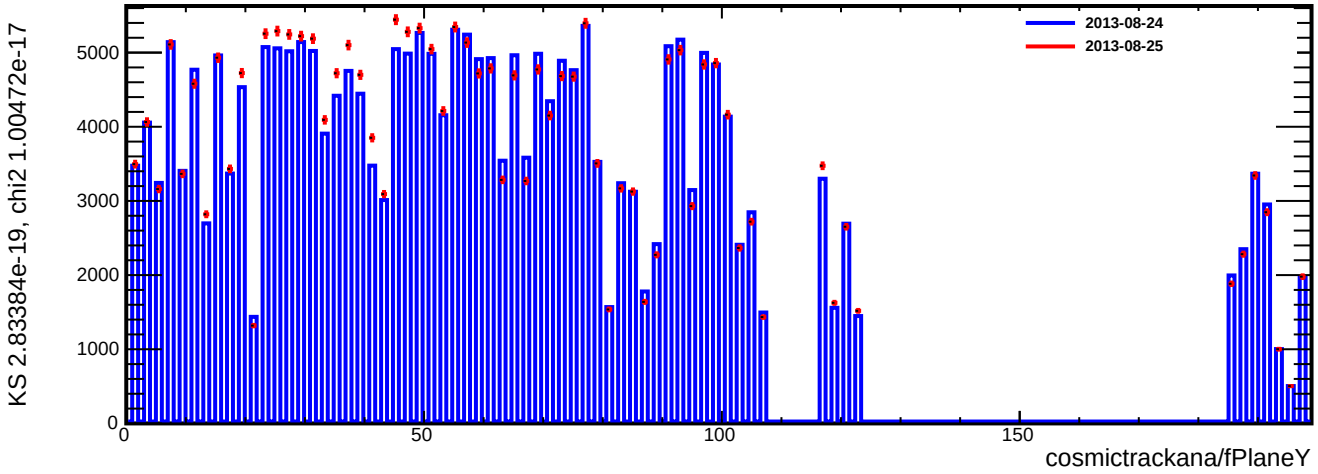

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.1
0.05
0
-0.05
-0.1
-0.15
0
500
1000
1500
cosmictrackana/hitZPosition

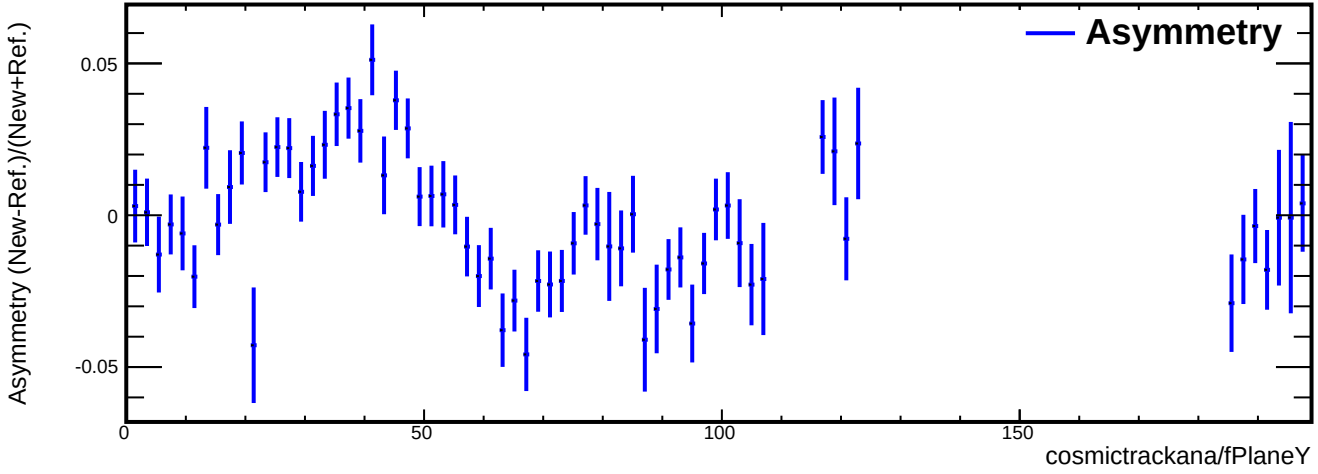

KS 1.95235e-09, chi2 2.23236e-12
2013-08-24
2013-08-25
cosmictrackana/fPlaneX

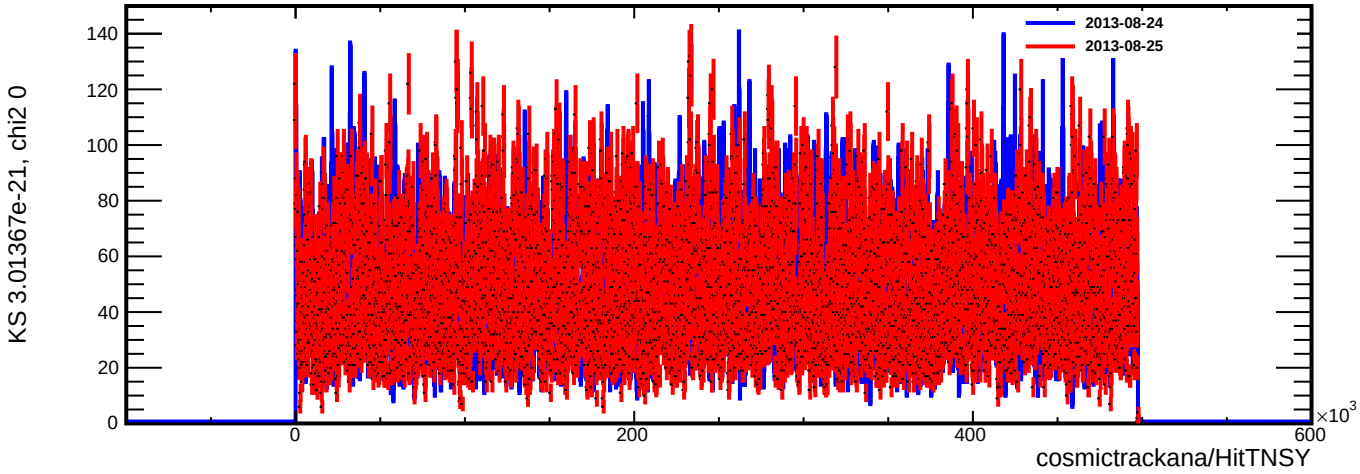

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/fPlaneX

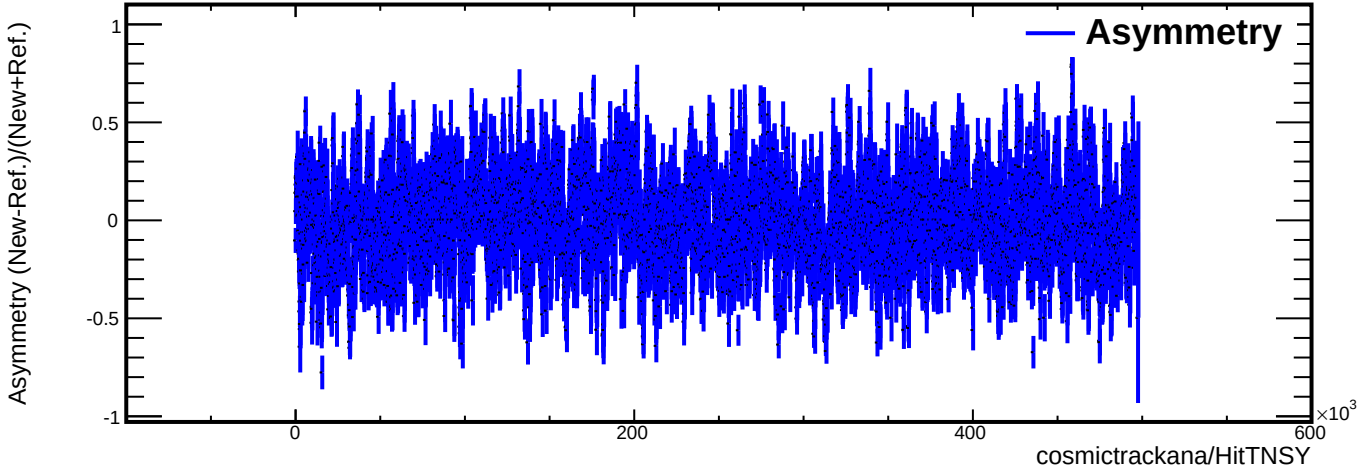

2013-08-24
2013-08-25
KS 2.8941e-14, chi2 0
100
80
60
40
20
0
0
200
400
600
×10^3
cosmictrackana/HitTNSX


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


KS 2.83384e-19, chi2 1.00472e-17
2013-08-24
2013-08-25
0
1000
2000
3000
4000
5000
0
50
100
150
cosmictrackana/fPlaneY


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


KS 3.01367e-21, chi2 0
2013-08-24
2013-08-25
140
120
100
80
60
40
20
0
0
200
400
600
×10^3
cosmictrackana/HitTNSY


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