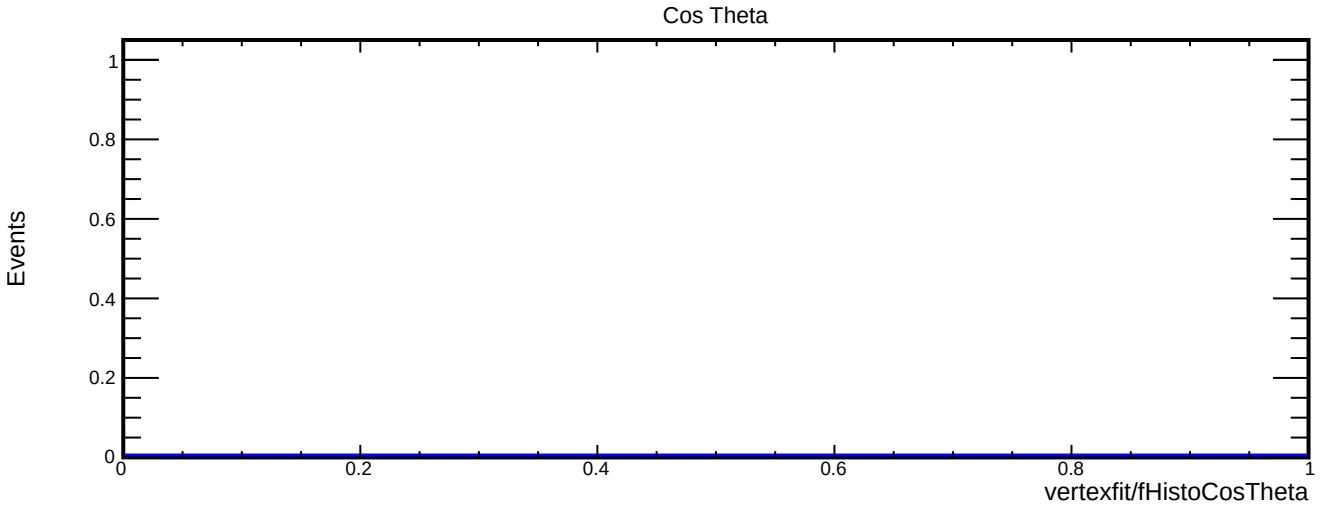
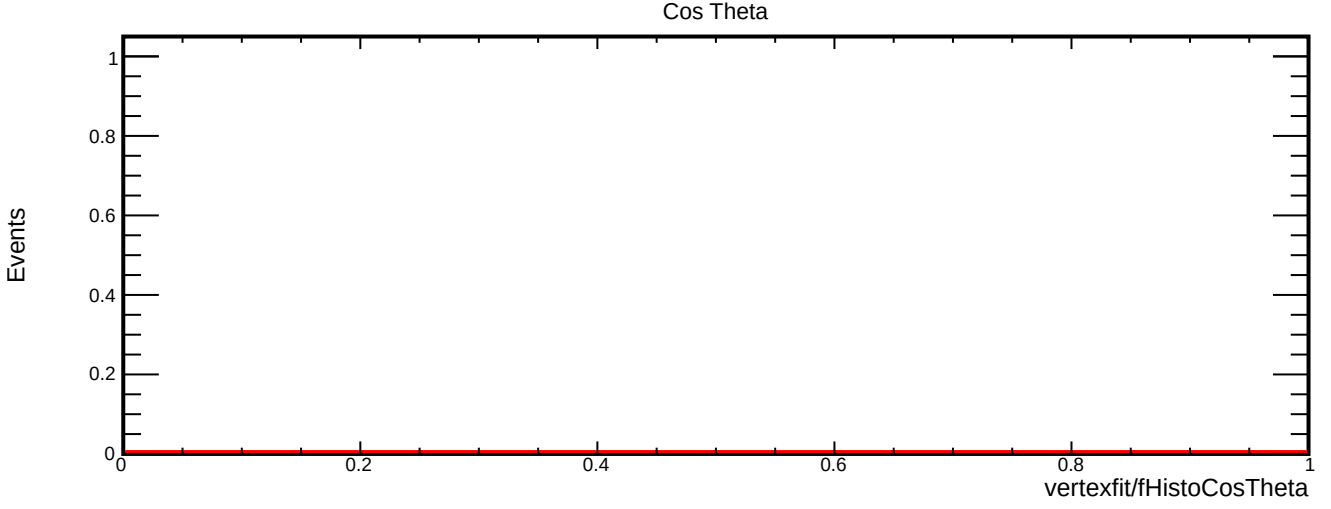
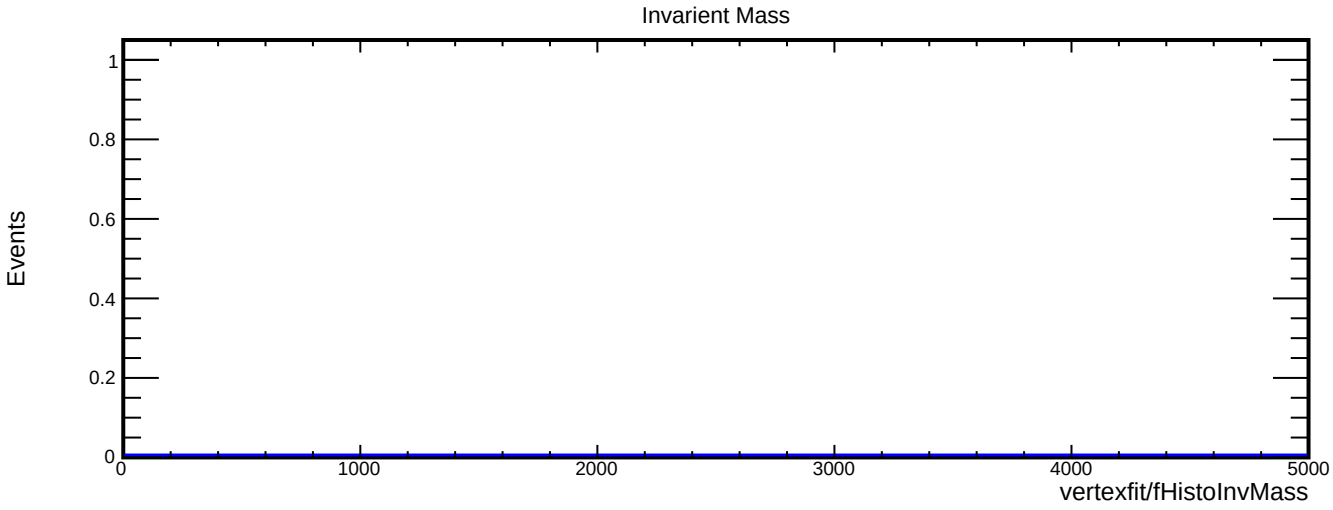
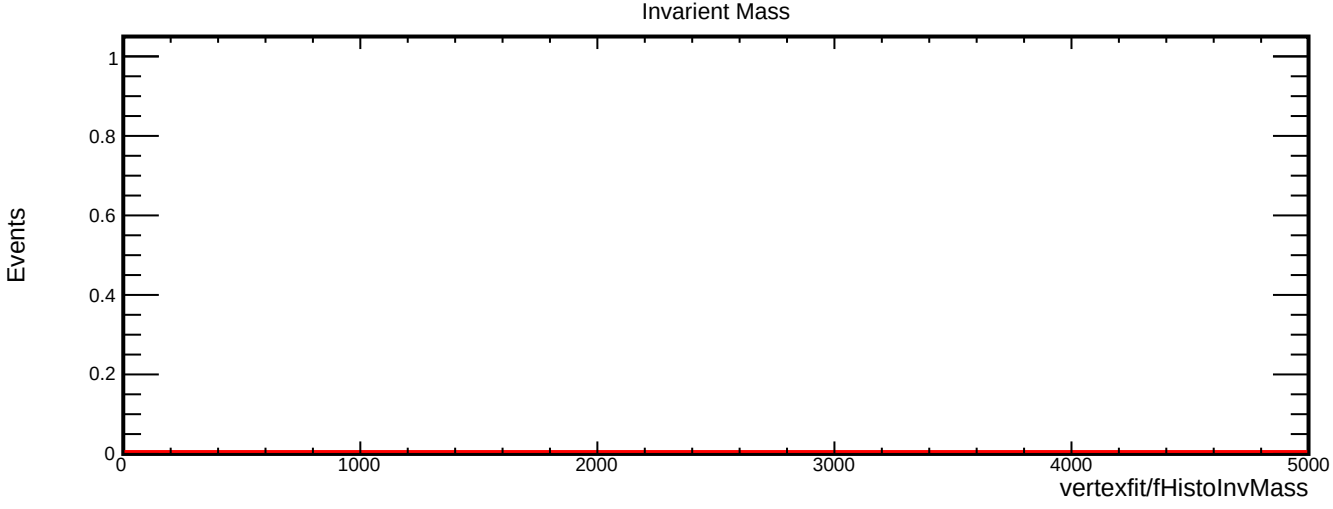
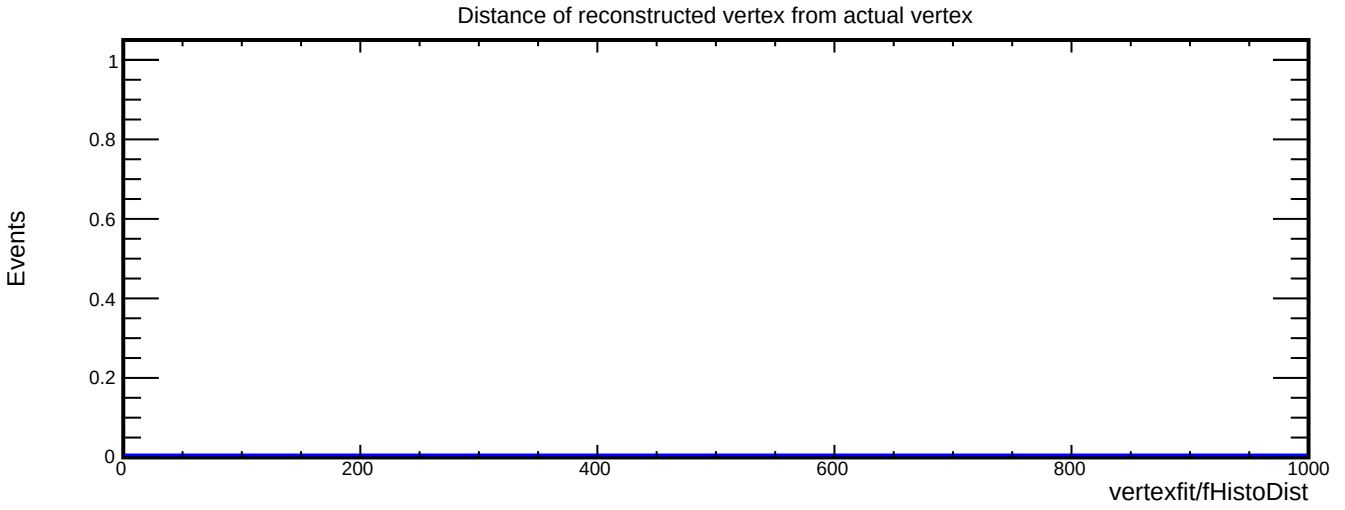
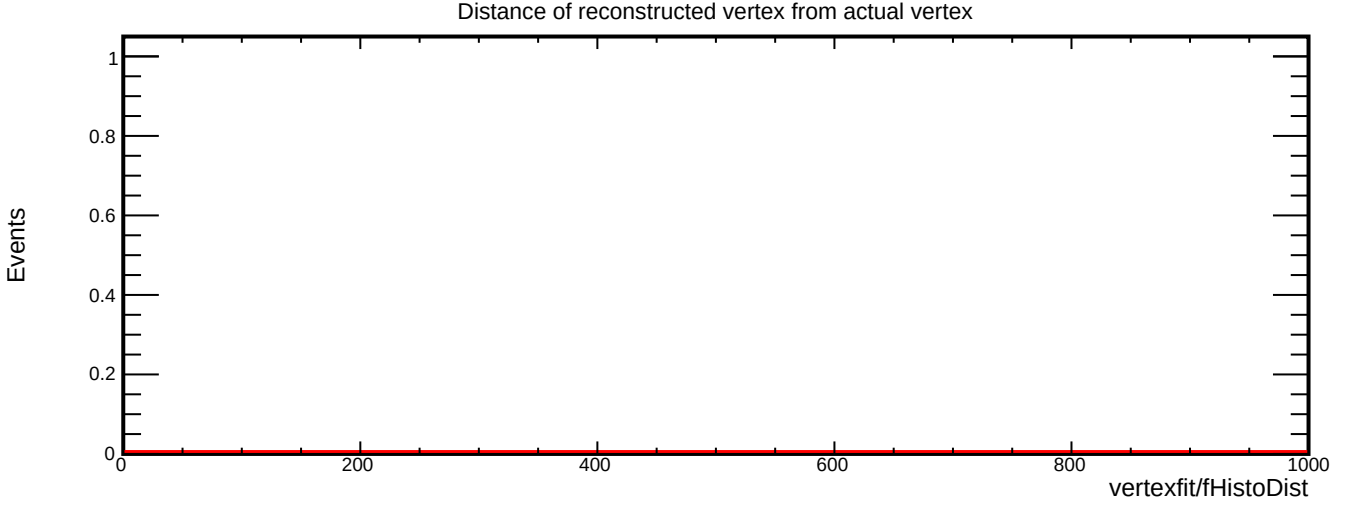

Cos Theta
Events
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
vertexfit/fHistoCosTheta

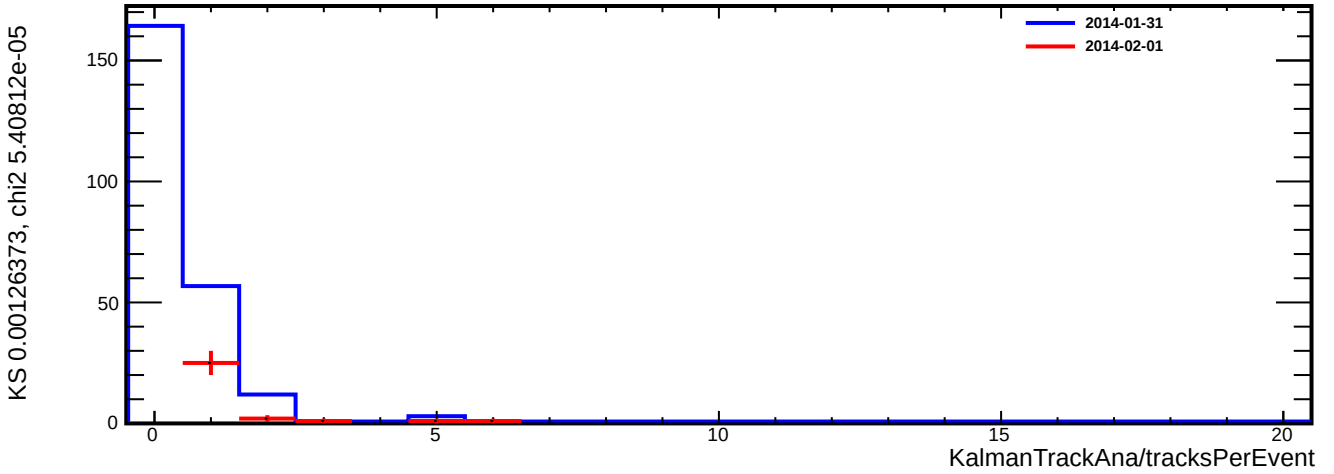

Cos Theta
Events
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
vertexfit/fHistoCosTheta

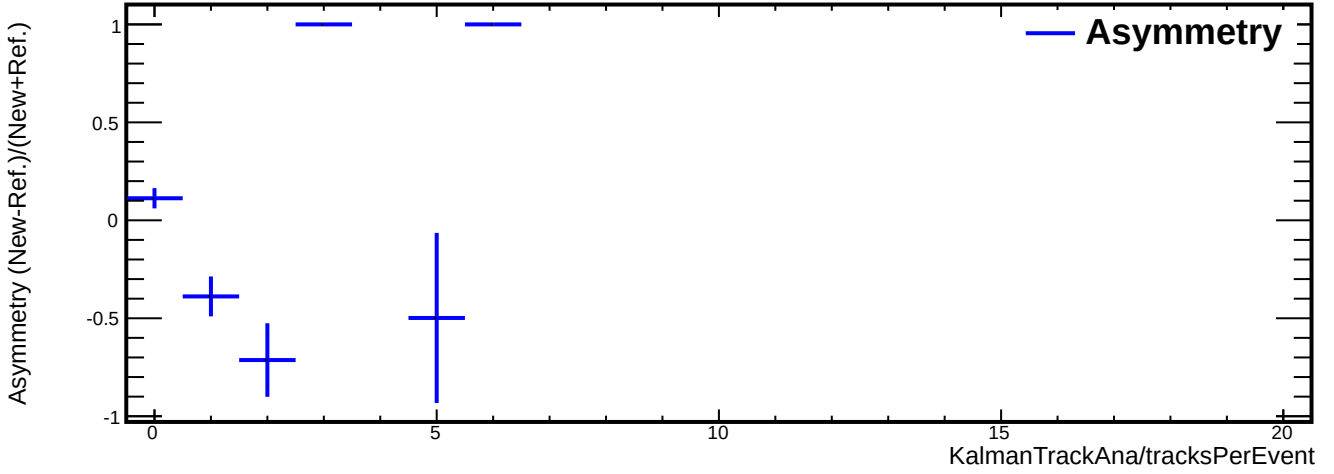

Invarient Mass
Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
5000
vertexfit/fHistoInvMass

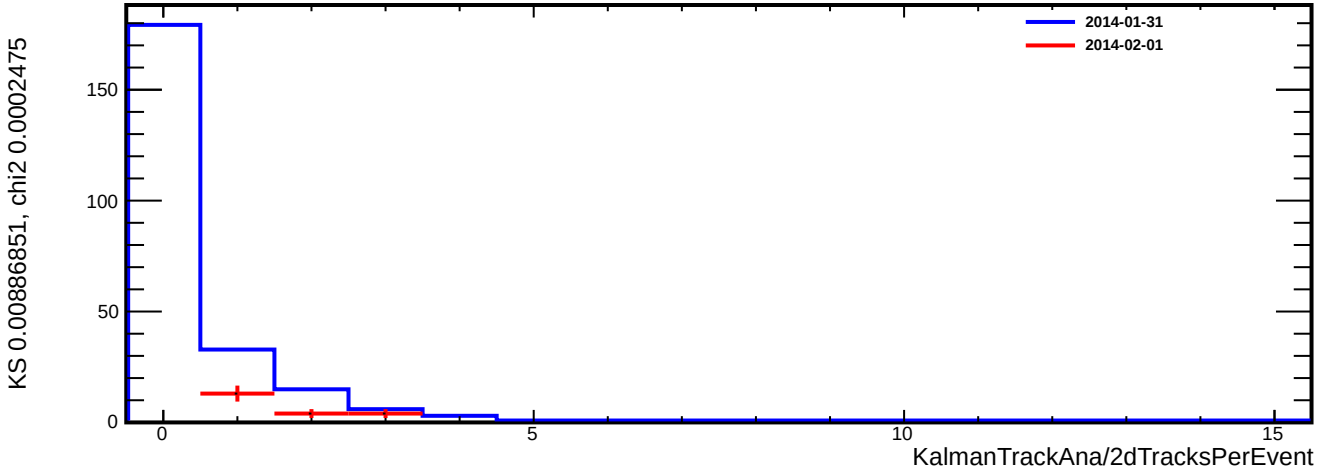

Invarient Mass
Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
4000
5000
vertexfit/fHistoInvMass

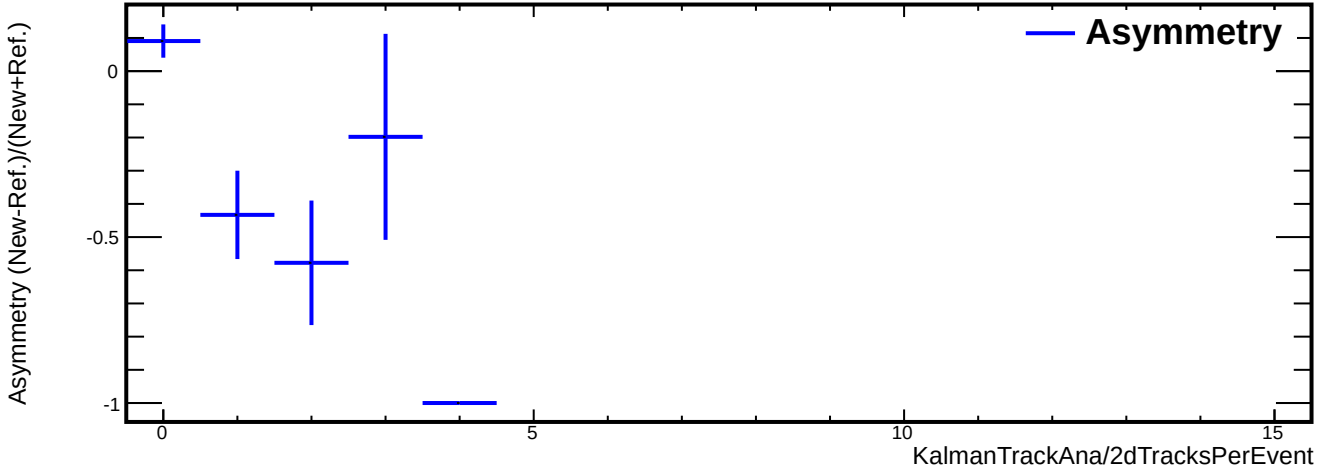

Distance of reconstructed vertex from actual vertex
Events
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
vertexfit/fHistoDist

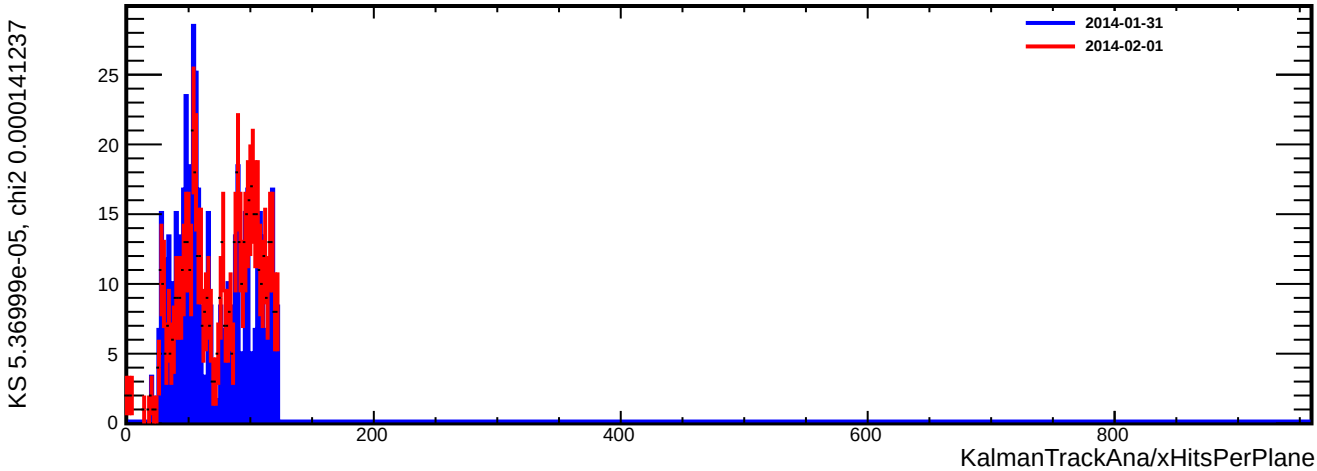

Distance of reconstructed vertex from actual vertex
Events
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
vertexfit/fHistoDist

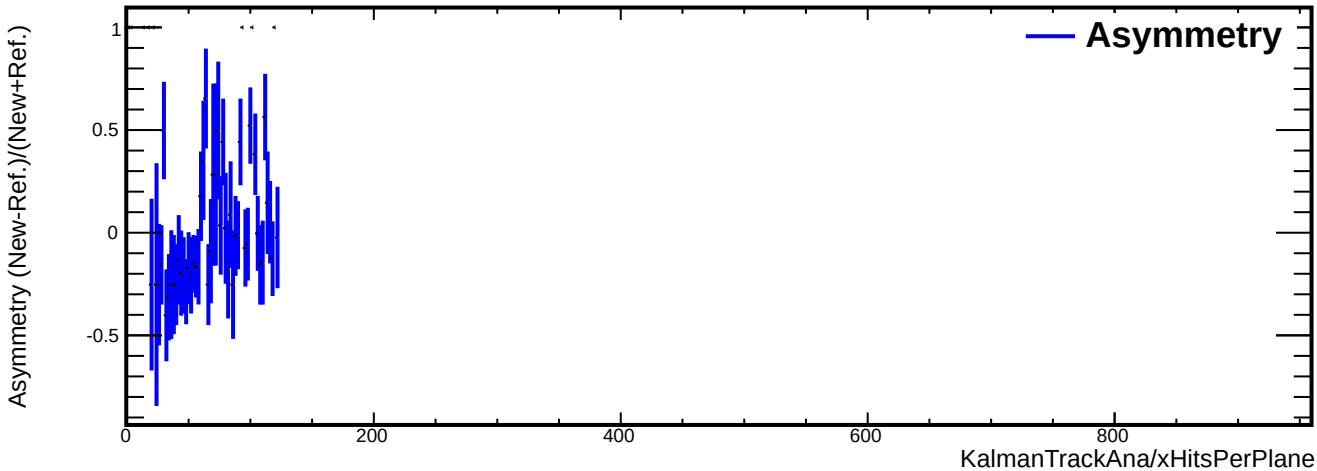

KS 0.00126373, chi2 5.40812e-05
150
100
50
0
0
5
10
15
20
KalmanTrackAna/tracksPerEvent
2014-01-31
2014-02-01

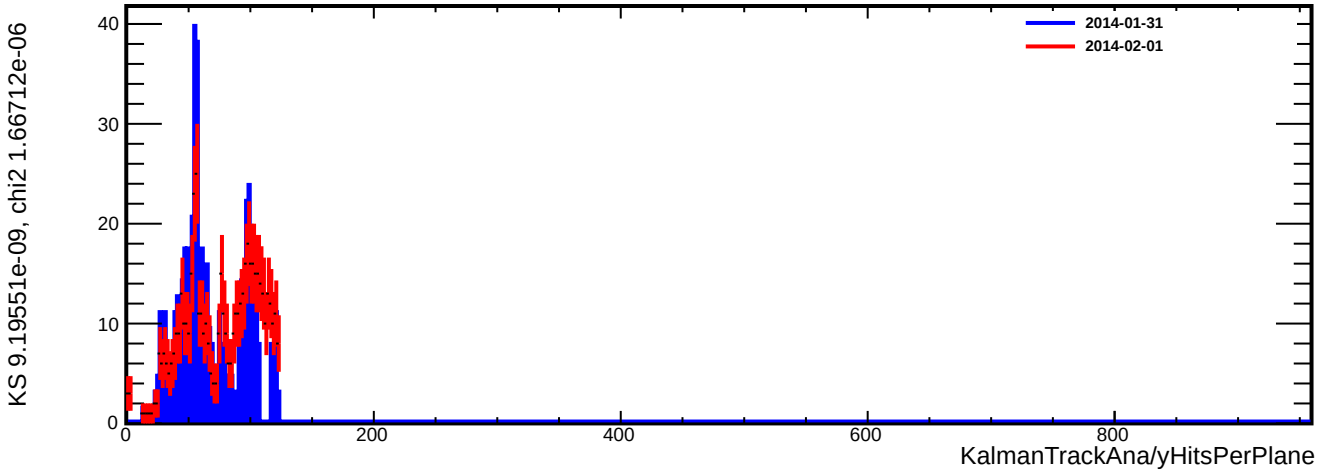

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
5
10
15
20
KalmanTrackAna/tracksPerEvent
Asymmetry

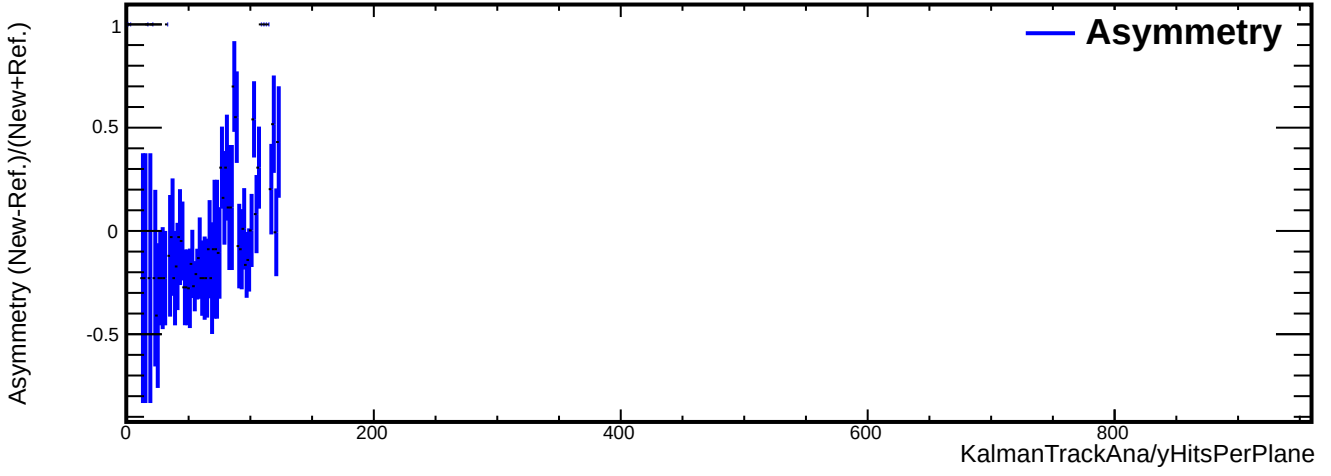

KS 0.00886851, chi2 0.0002475
2014-01-31
2014-02-01
150
100
50
0
0
5
10
15
KalmanTrackAna/2dTracksPerEvent

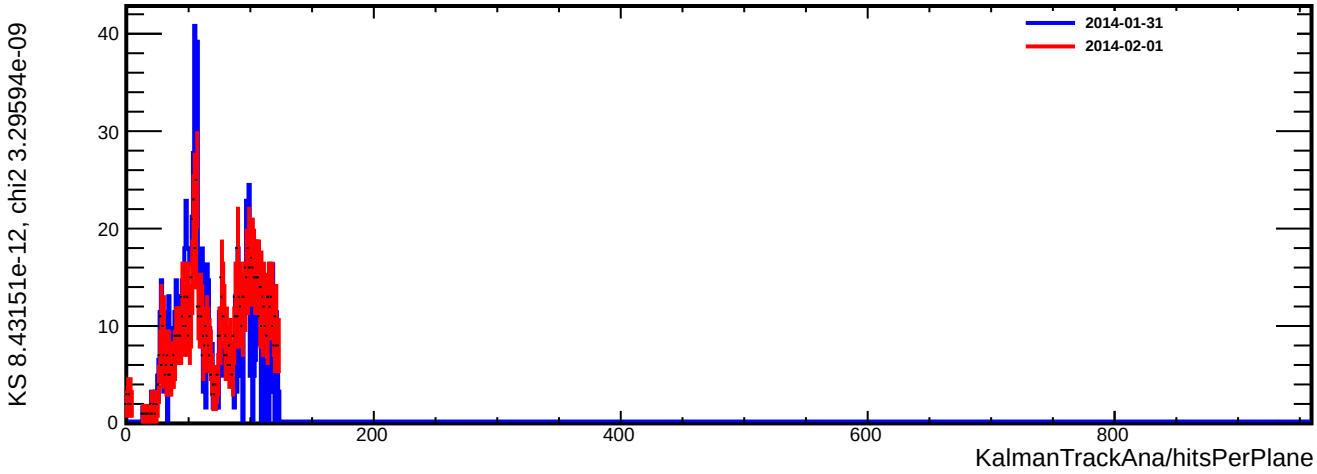

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0
-0.5
-1
0
5
10
15
KalmanTrackAna/2dTracksPerEvent

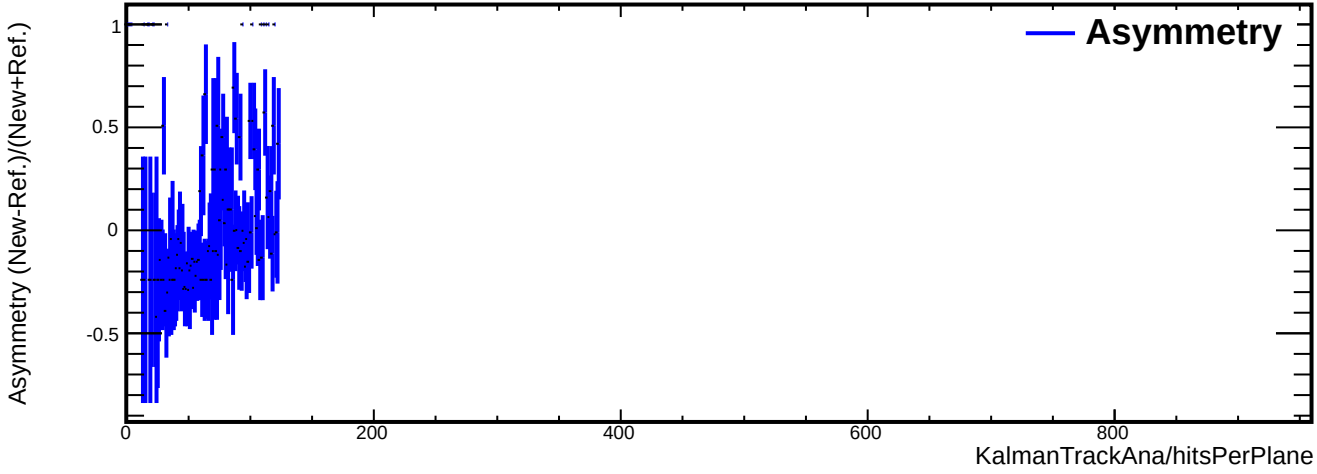

KS 5.36999e-05, chi2 0.000141237
2014-01-31
2014-02-01
0
5
10
15
20
25
0
200
400
600
800
KalmanTrackAna/xHitsPerPlane

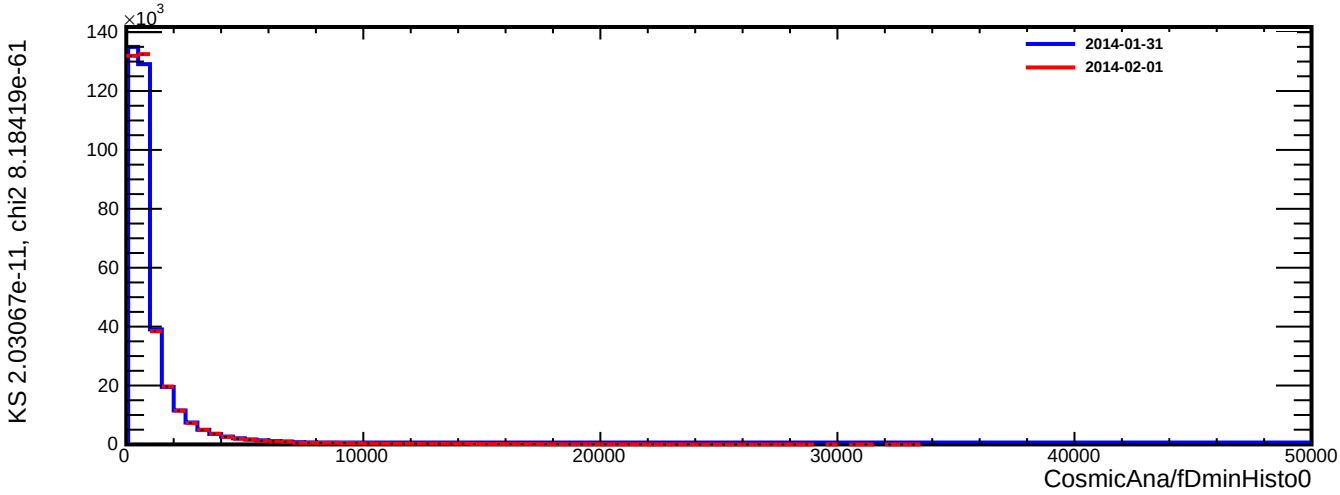

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
0
200
400
600
800
KalmanTrackAna/xHitsPerPlane

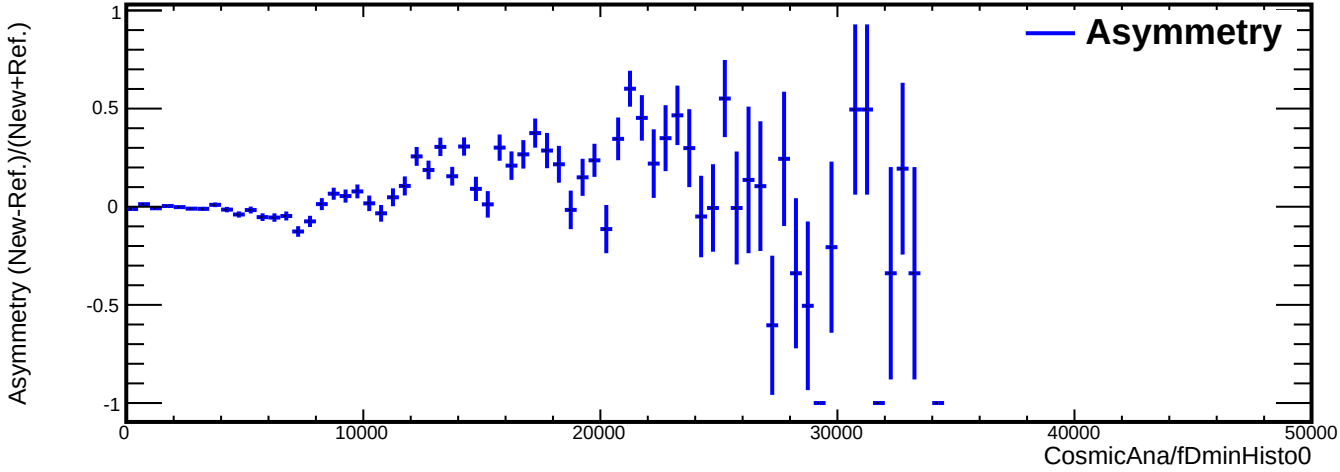

KS 9.19551e-09, chi2 1.66712e-06
2014-01-31
2014-02-01
KalmanTrackAna/yHitsPerPlane

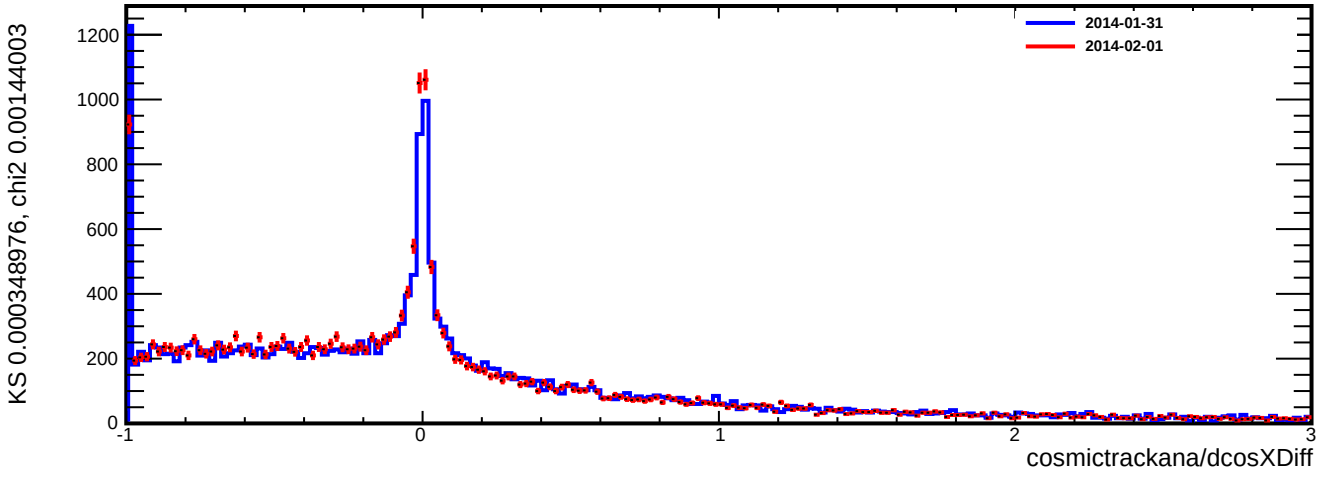

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/yHitsPerPlane

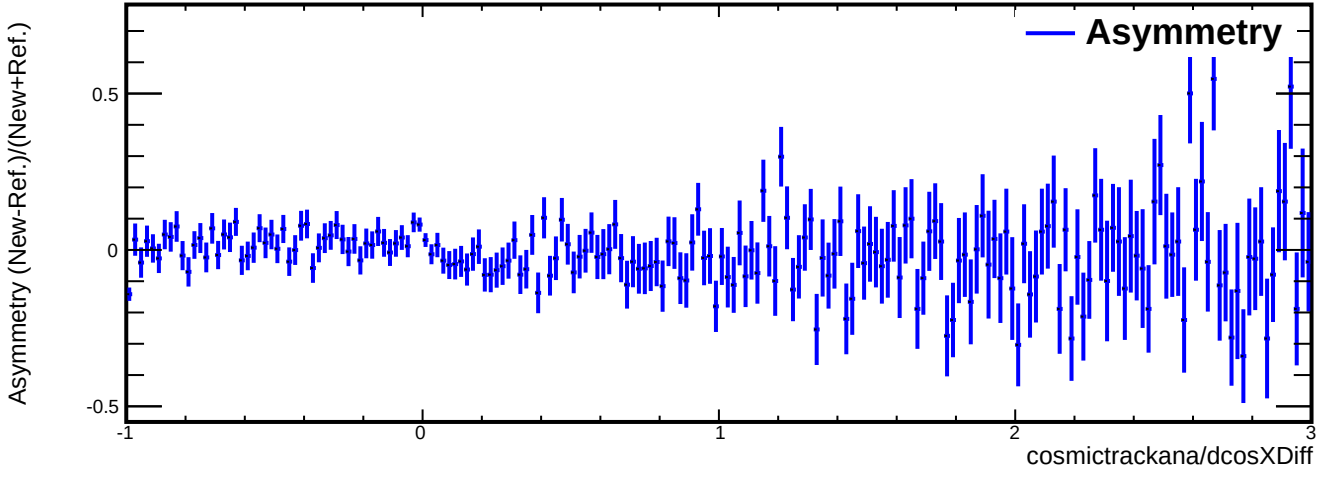

KS 8.43151e-12, chi2 3.29594e-09
2014-01-31
2014-02-01
0
10
20
30
40
0
200
400
600
800
KalmanTrackAna/hitsPerPlane

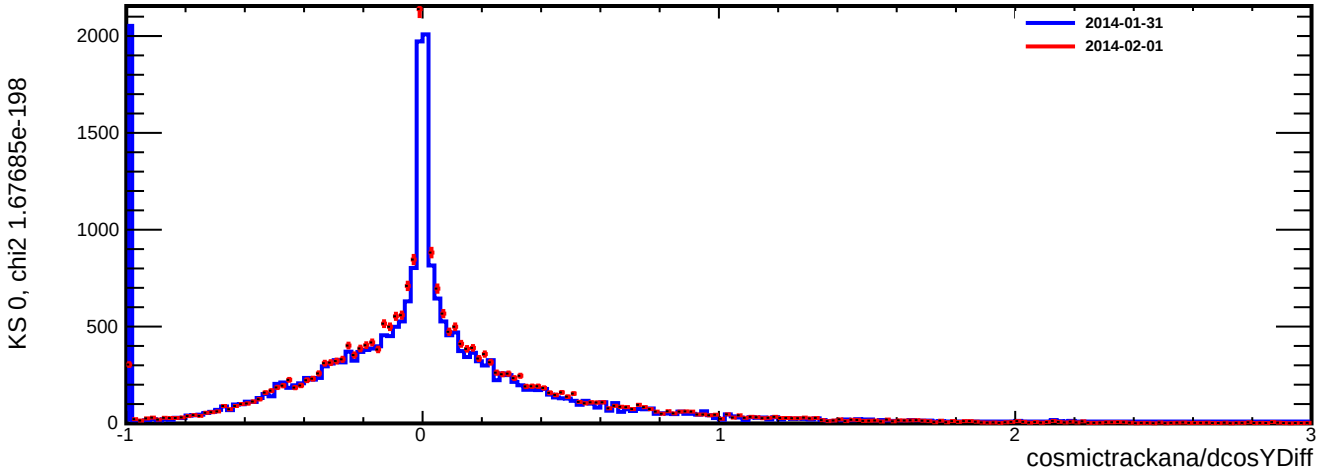

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
0
200
400
600
800
KalmanTrackAna/hitsPerPlane

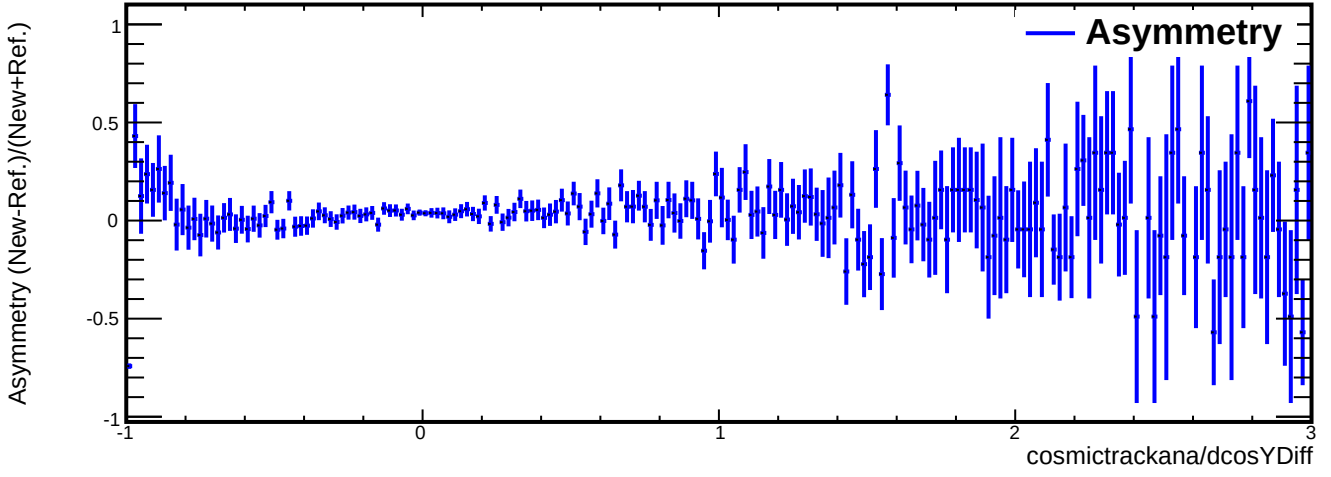

KS 2.03067e-11, chi2 8.18419e-61
×10^3
140
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto0
2014-01-31
2014-02-01

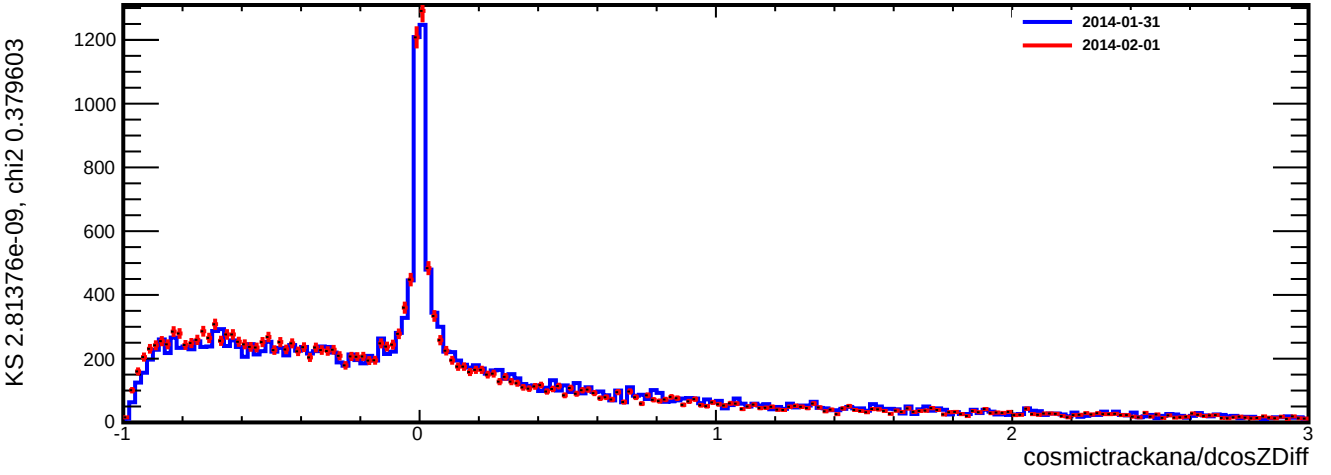

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto0
Asymmetry

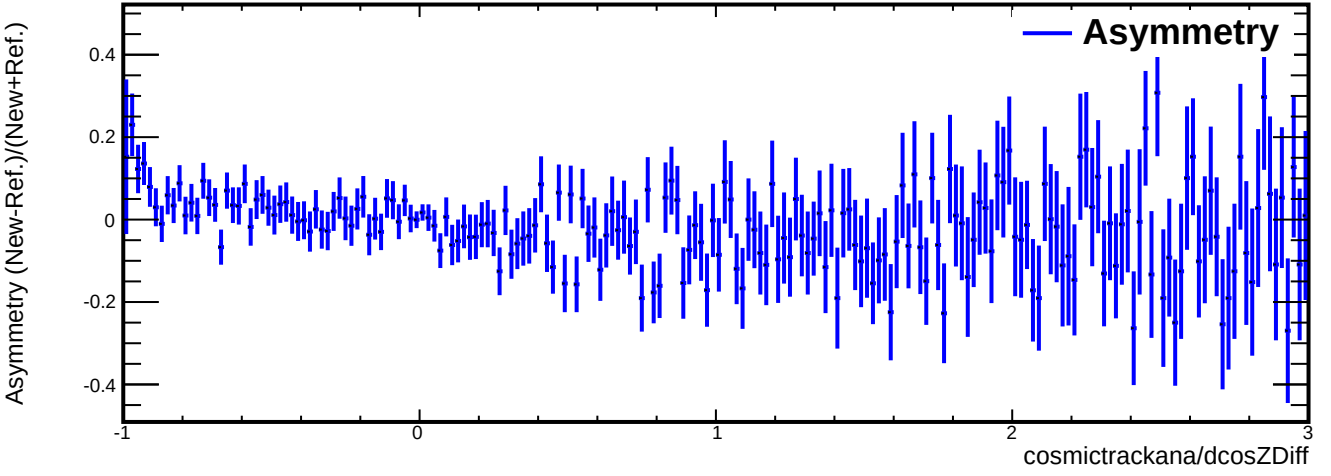

KS 0.000348976, chi2 0.00144003
2014-01-31
2014-02-01
1200
1000
800
600
400
200
0
-1
0
1
2
3
cosmictrackana/dcosXDiff

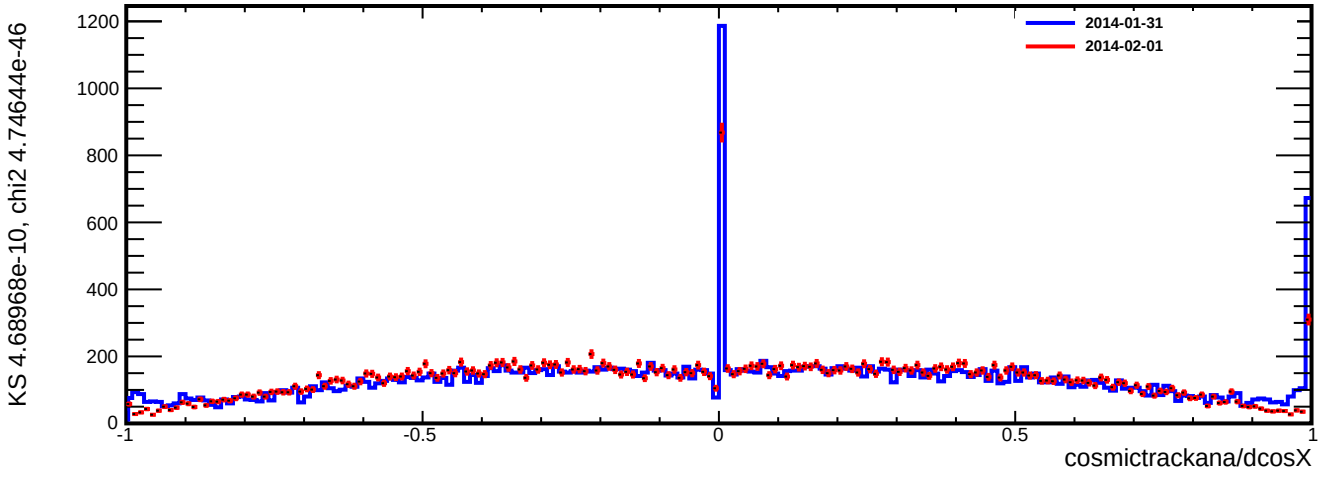

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
-1
0
1
2
3
cosmictrackana/dcosXDiff

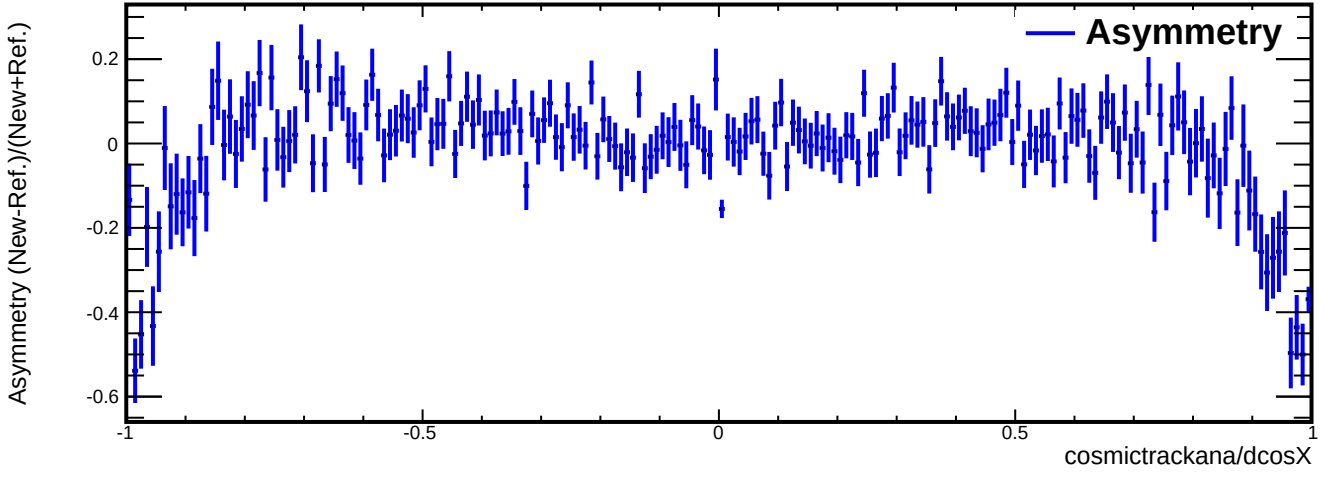

2014-01-31
2014-02-01
KS 0, chi2 1.67685e-198
2000
1500
1000
500
0
-1
0
1
2
3
cosmictrackana/dcosYDiff

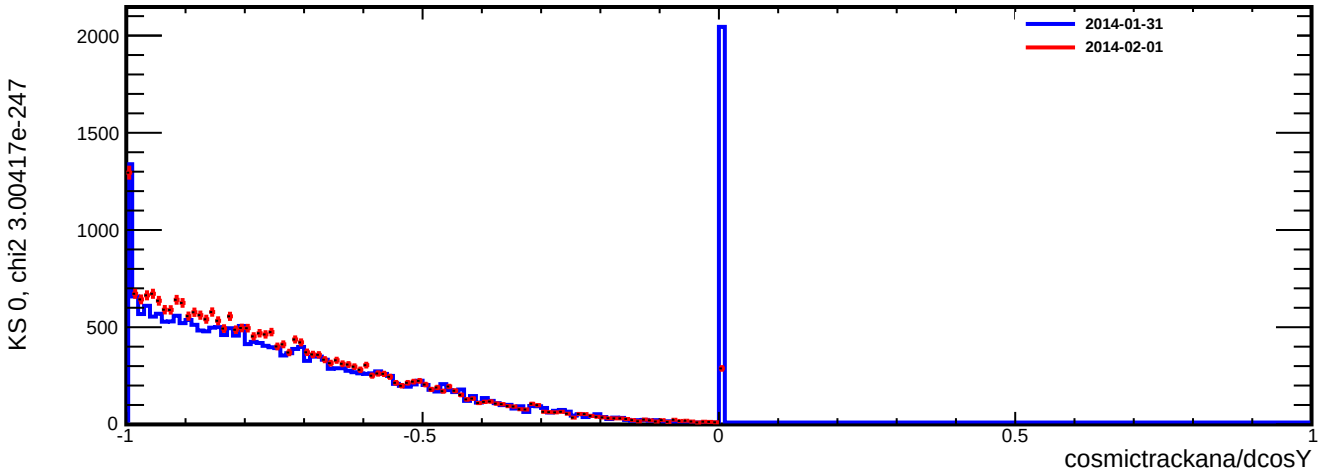

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-1
0
1
2
3
cosmictrackana/dcosYDiff

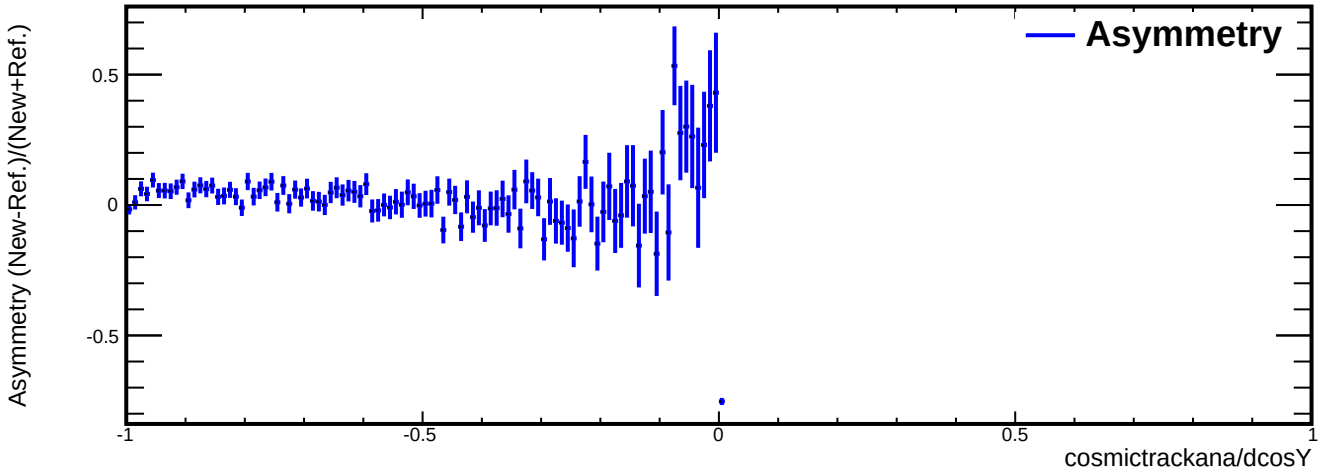

KS 2.81376e-09, chi2 0.379603
2014-01-31
2014-02-01
1200
1000
800
600
400
200
0
-1
0
1
2
3
cosmictrackana/dcosZDiff

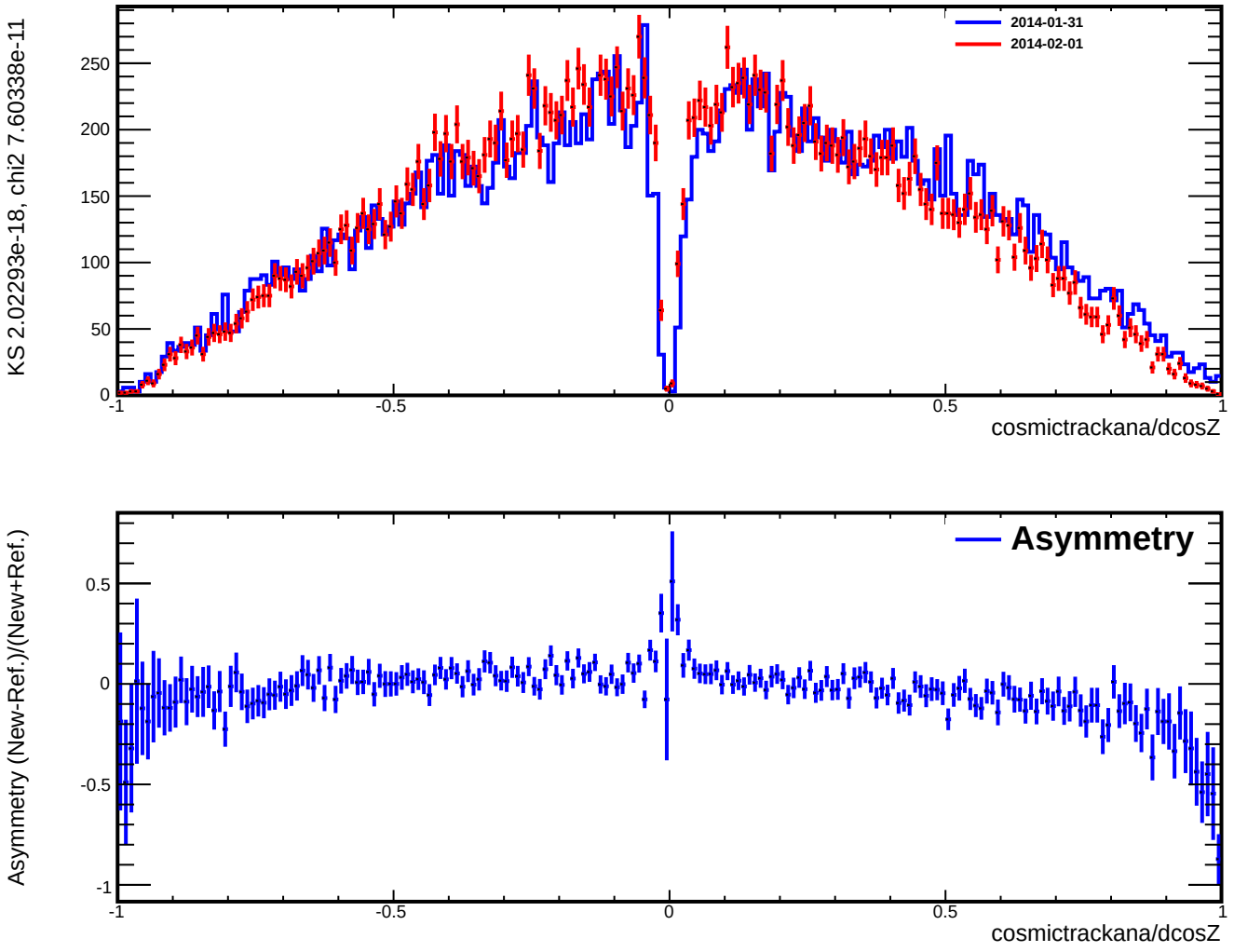

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.4
0.2
0
-0.2
-0.4
-1
0
1
2
3
cosmictrackana/dcosZDiff

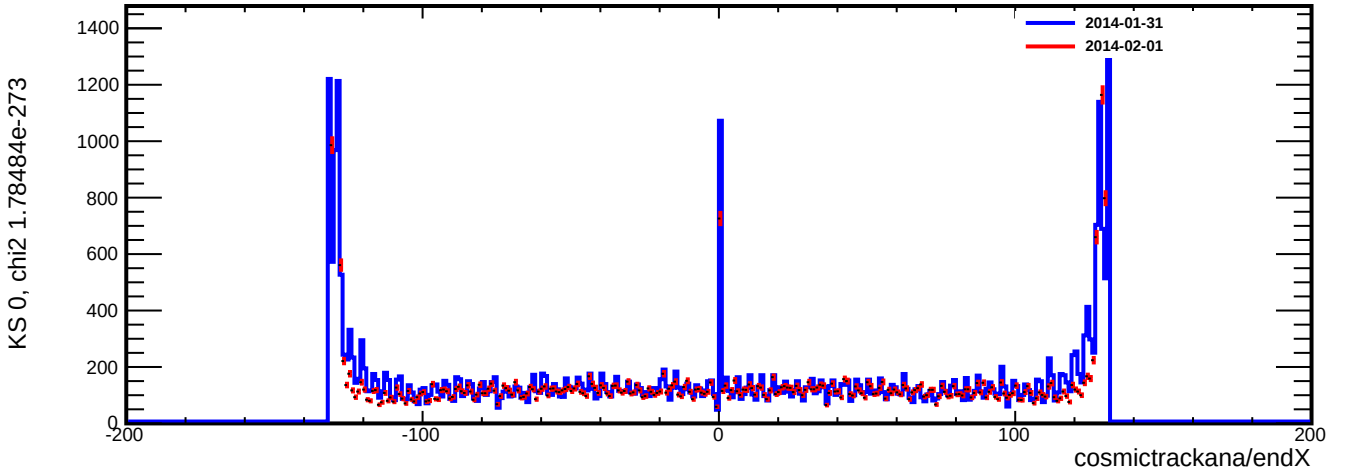

KS 4.68968e-10, chi2 4.74644e-46
2014-01-31
2014-02-01
cosmictrackana/dcosX

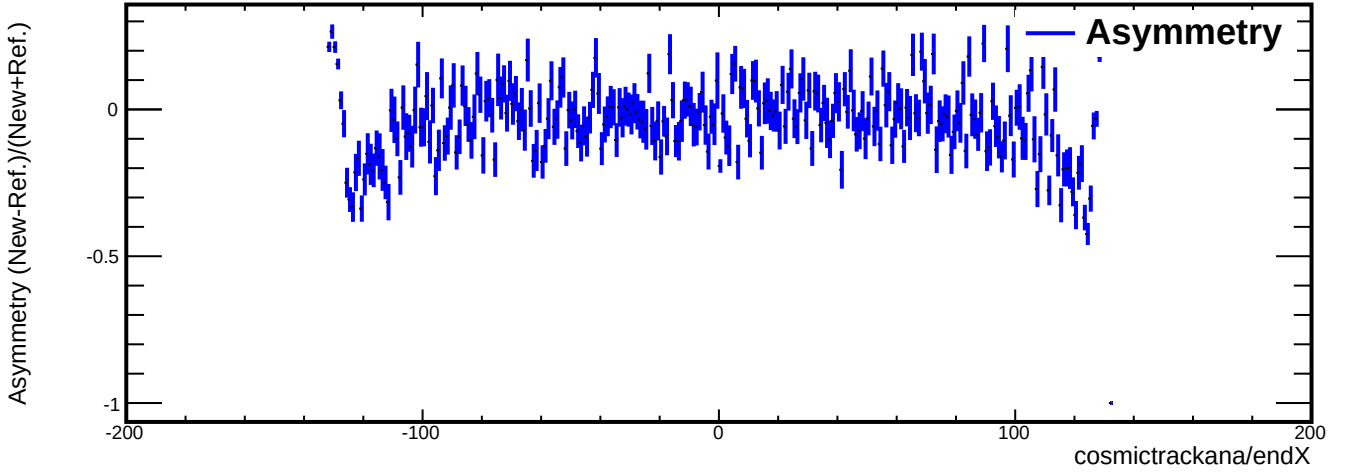

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/dcosX

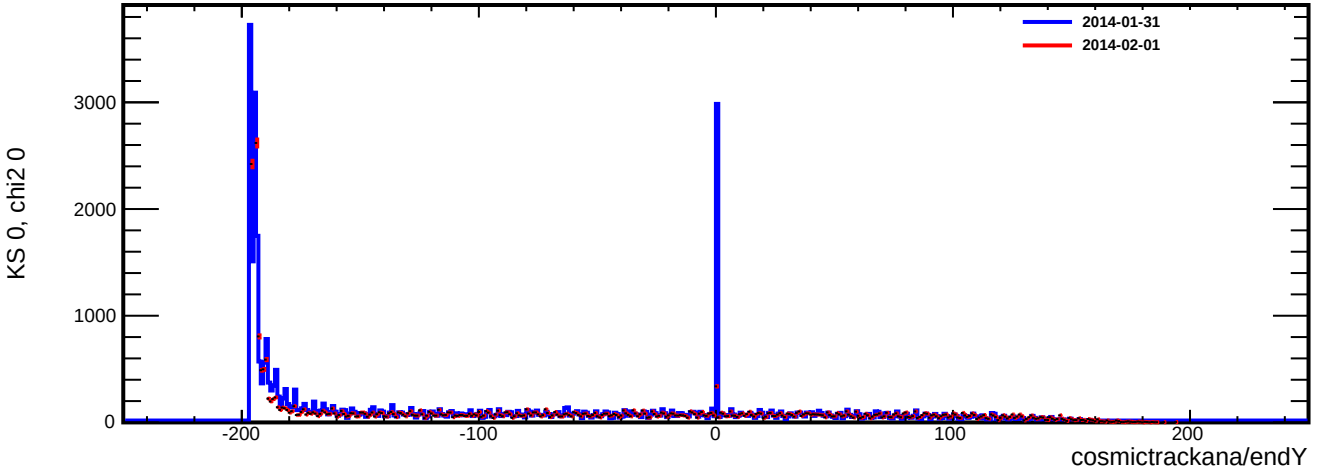

KS 0, chi2 3.00417e-247
2014-01-31
2014-02-01
2000
1500
1000
500
0
-1
-0.5
0
0.5
1
cosmictrackana/dcosY

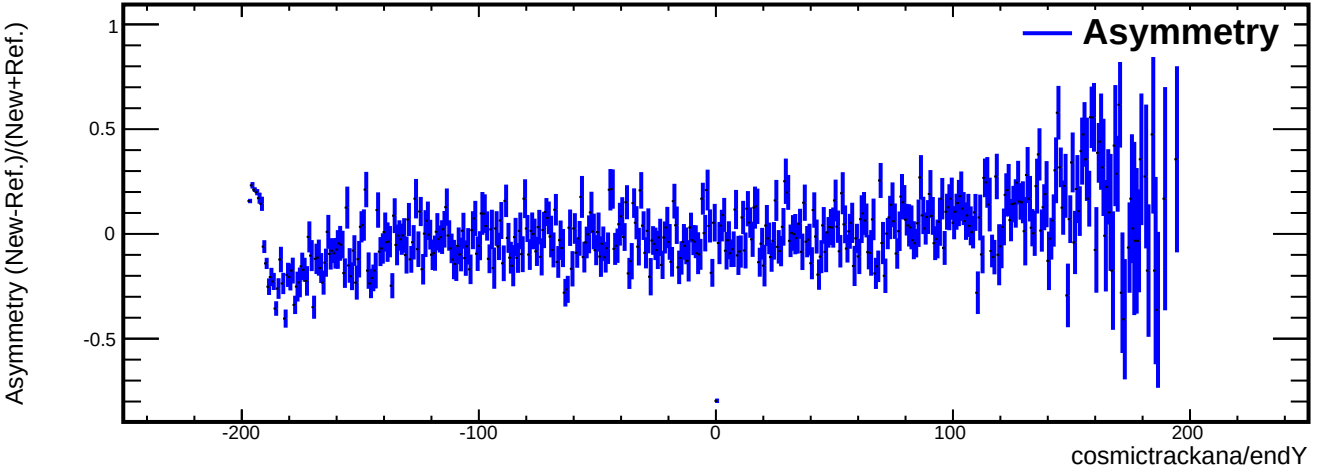

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
-1
-0.5
0
0.5
1
cosmictrackana/dcosY

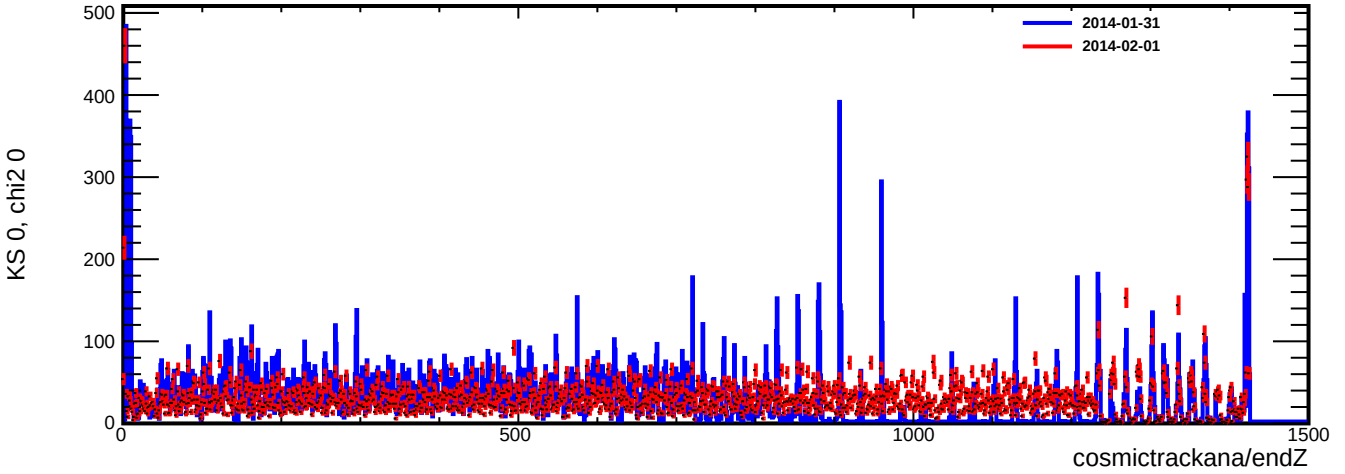

KS 2.02293e-18, chi2 7.60338e-11
2014-01-31
2014-02-01
cosmictrackana/dcosZ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/dcosZ

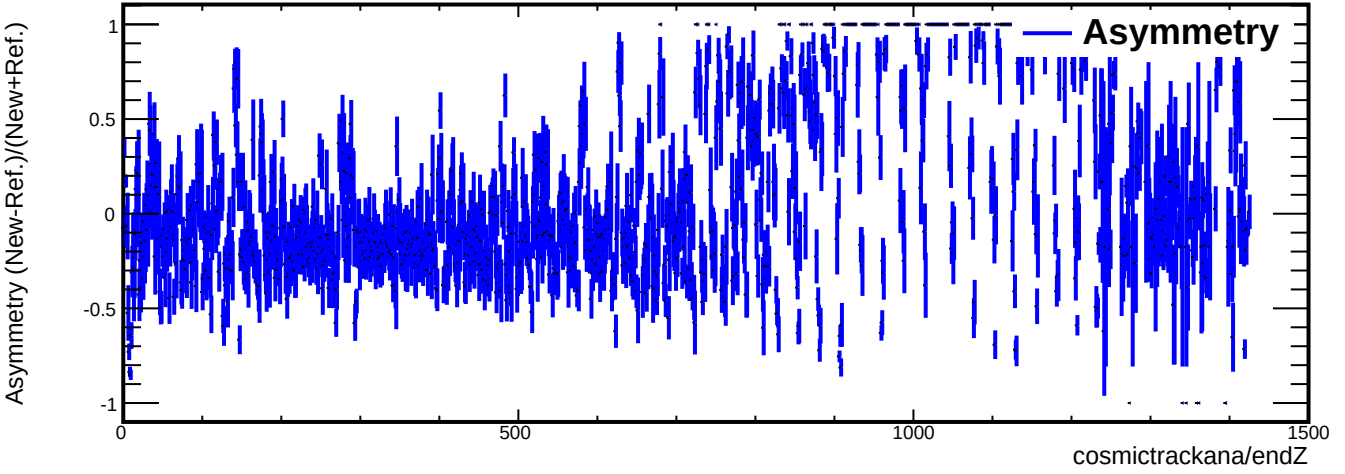

2014-01-31
2014-02-01
KS 0, chi2 1.78484e-273
1400
1200
1000
800
600
400
200
0
-200
-100
0
100
200
cosmictrackana/endX

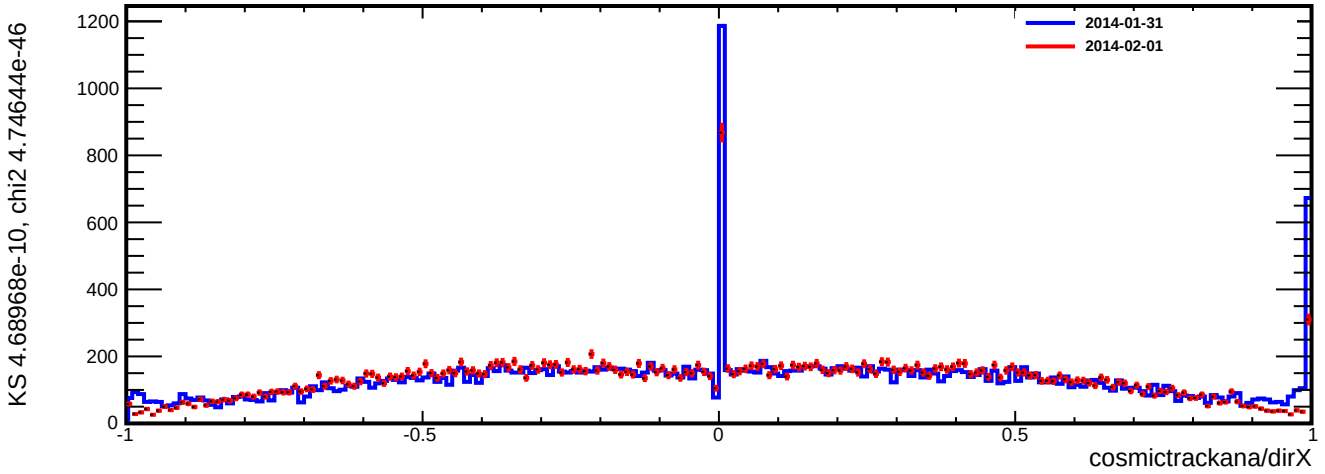

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/endX

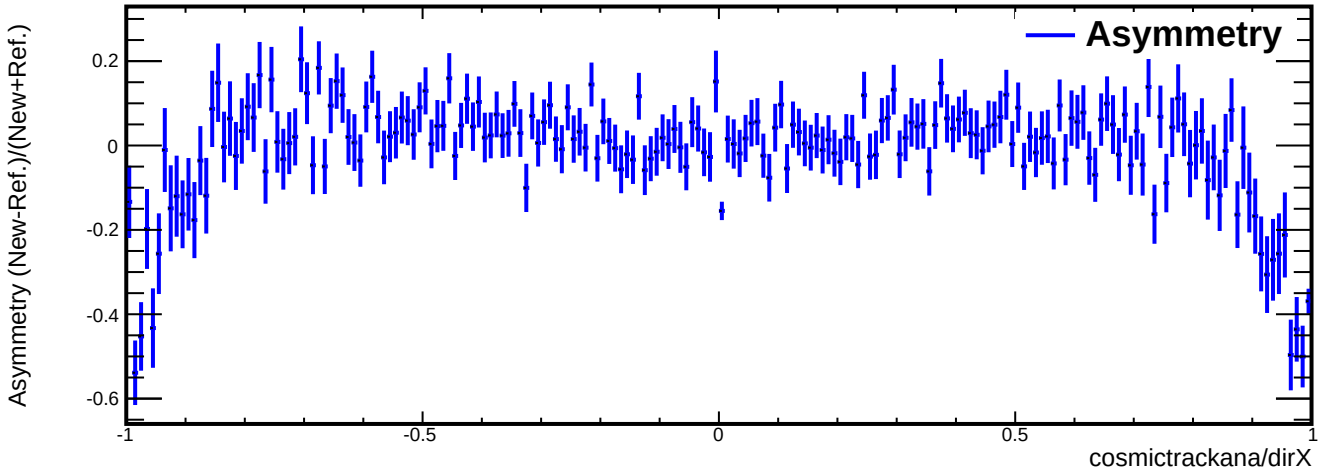

2014-01-31
2014-02-01
KS 0, chi2 0
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/endY

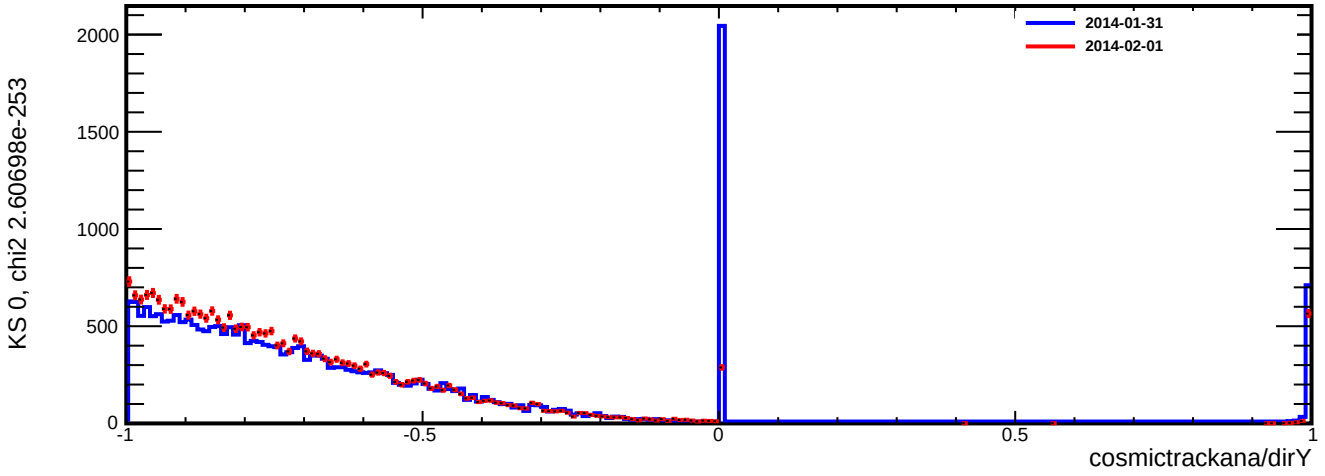

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-200
-100
0
100
200
cosmictrackana/endY

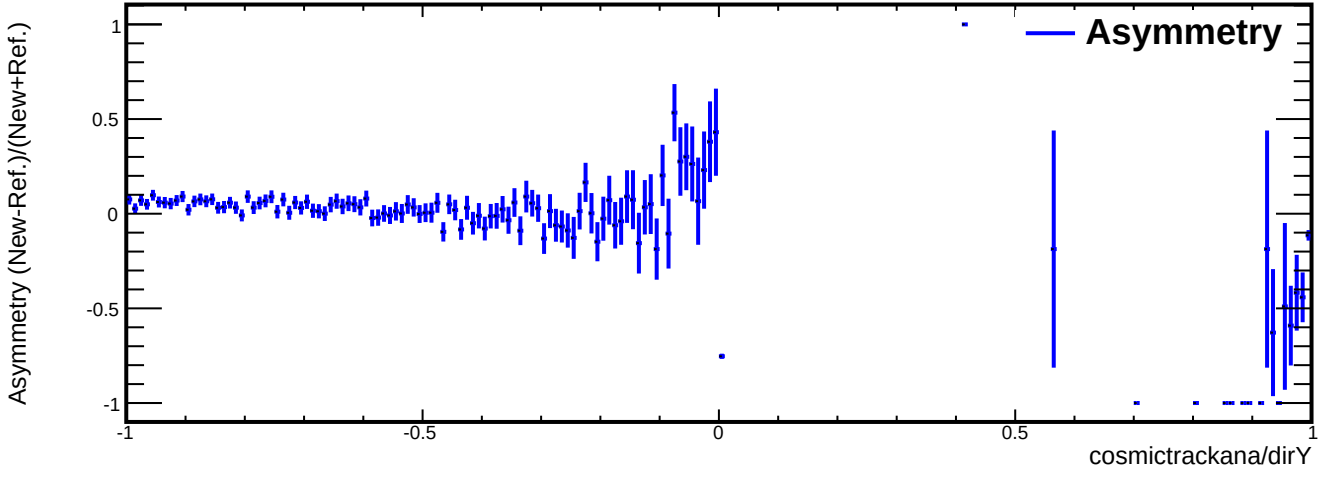

2014-01-31
2014-02-01
KS 0, chi2 0
cosmictrackana/endZ
0
100
200
300
400
500
0
500
1000
1500

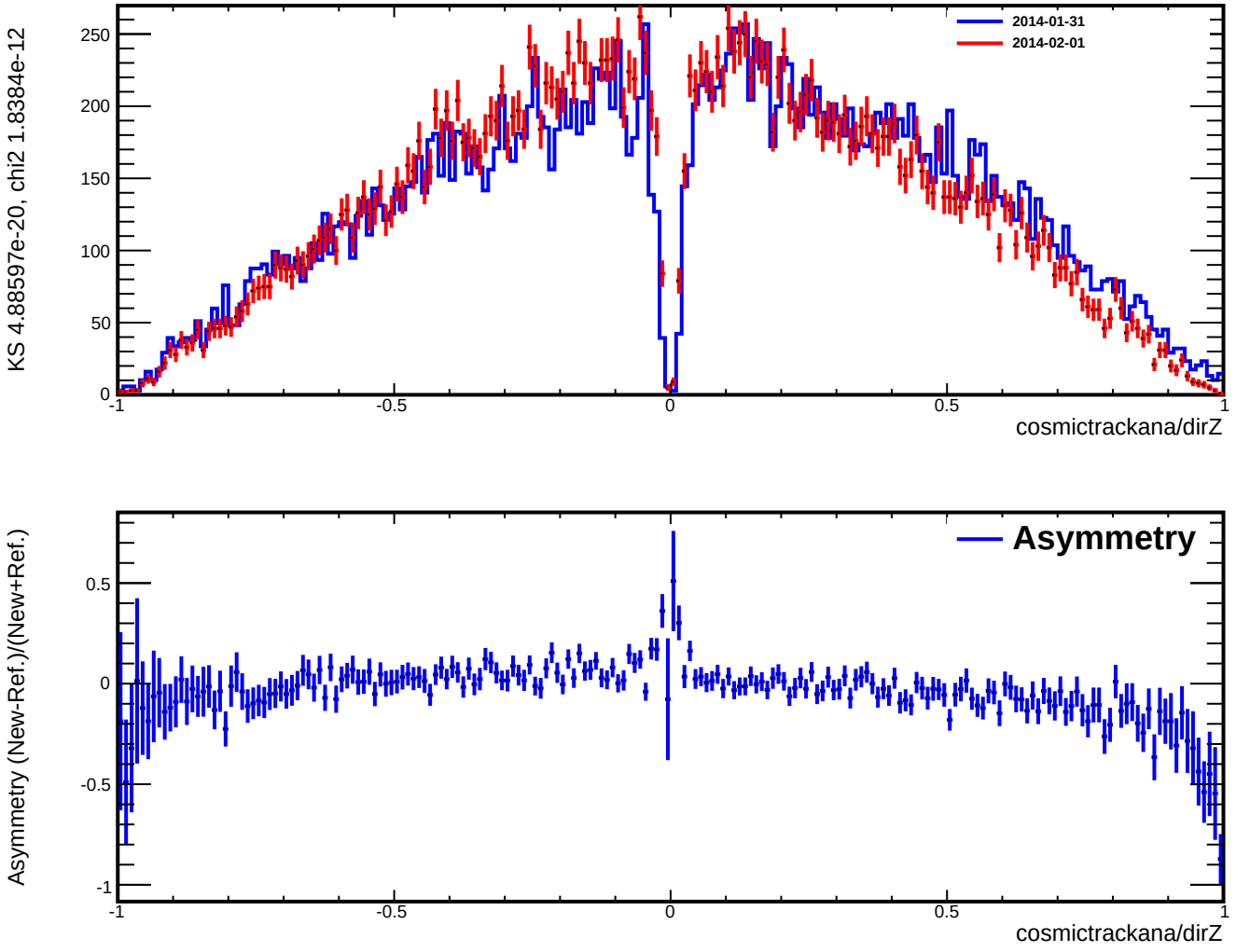

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
cosmictrackana/endZ
1
0.5
0
-0.5
-1
0
500
1000
1500

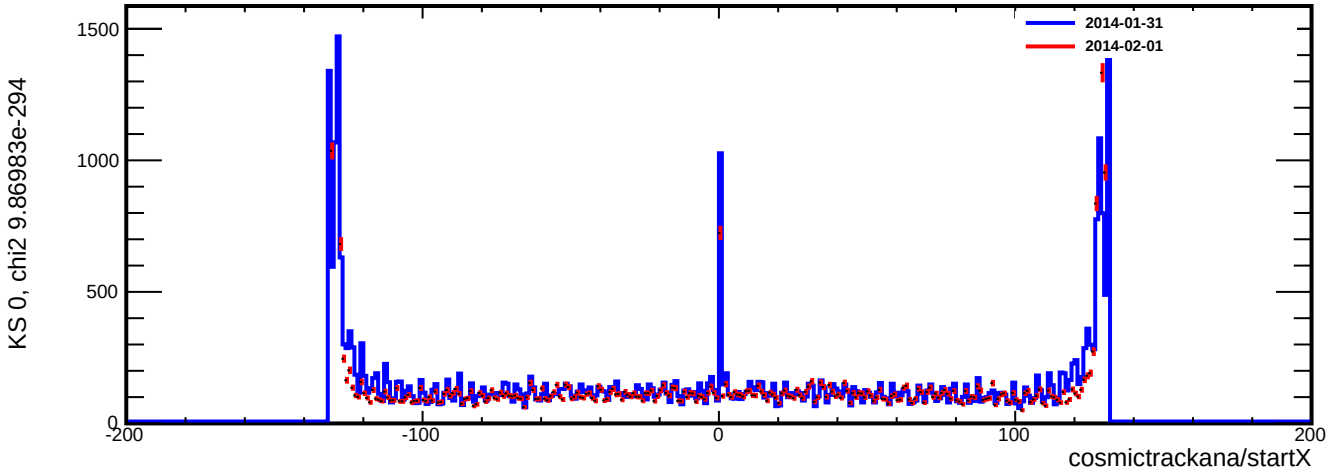

KS 4.68968e-10, chi2 4.74644e-46
2014-01-31
2014-02-01
cosmictrackana/dirX

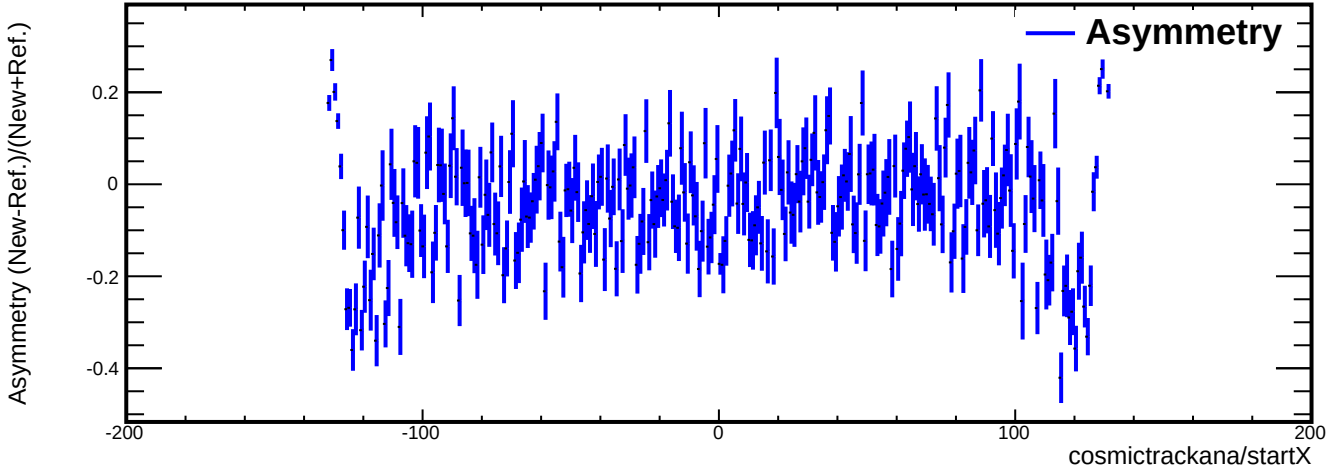

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/dirX

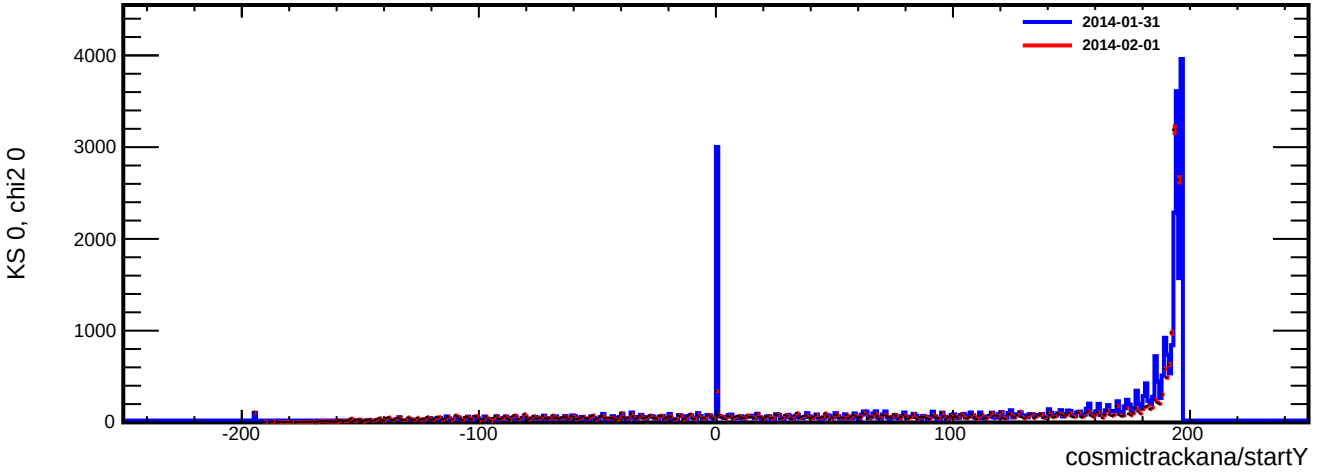

2014-01-31
2014-02-01
KS 0, chi2 2.60698e-253
2000
1500
1000
500
0
-1
-0.5
0
0.5
1
cosmictrackana/dirY

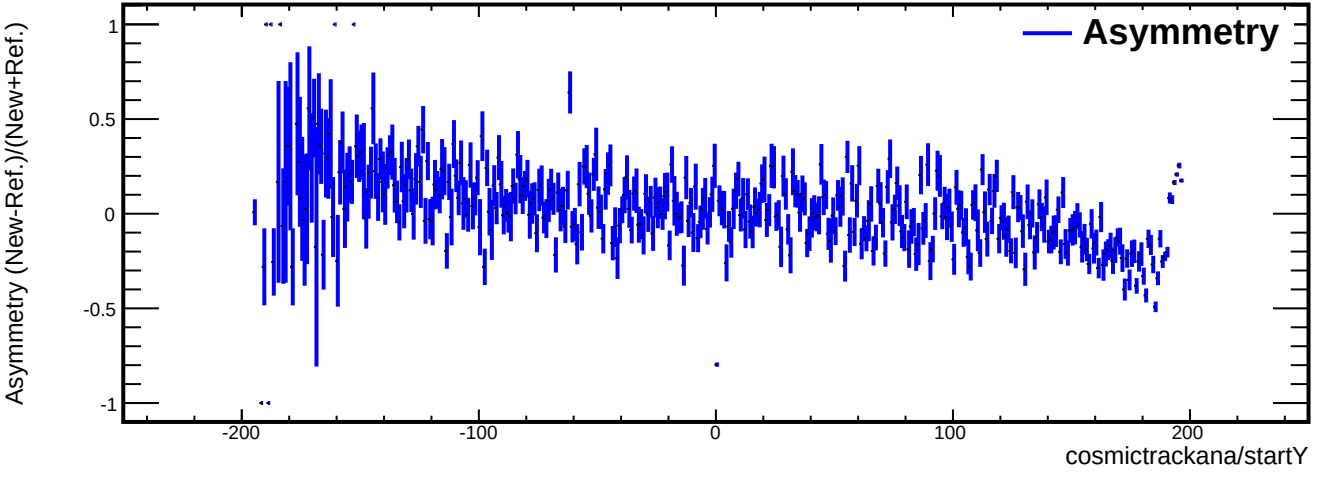

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
cosmictrackana/dirY

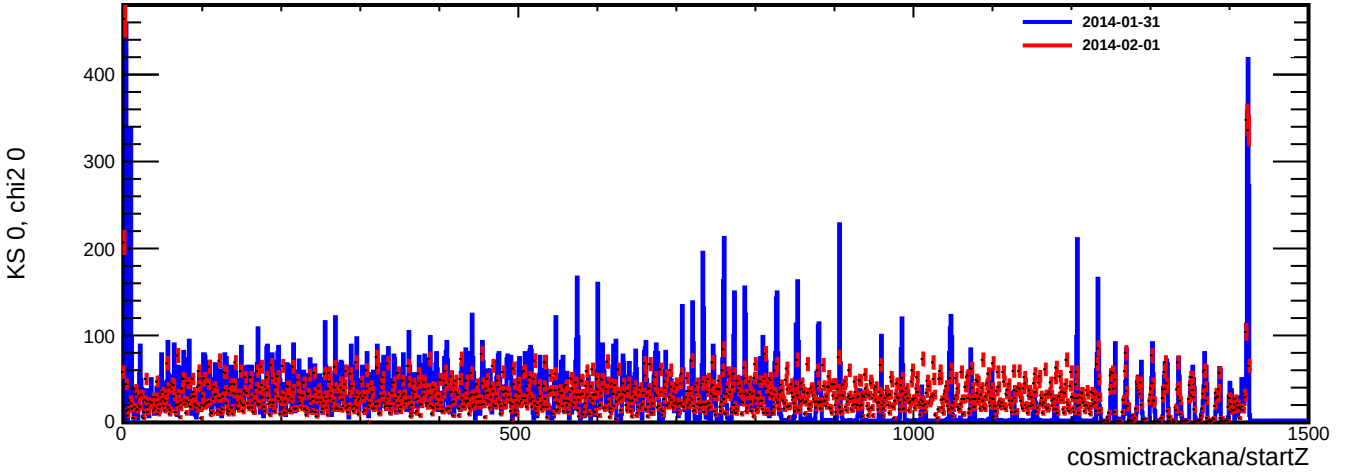

KS 4.88597e-20, chi2 1.8384e-12
2014-01-31
2014-02-01
cosmictrackana/dirZ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/dirZ

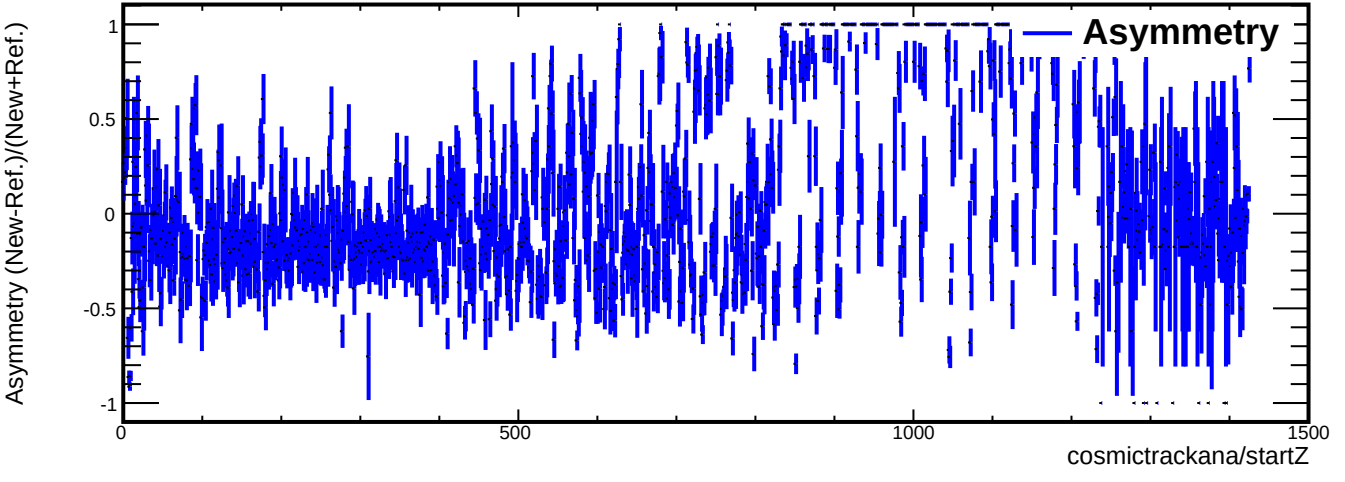

2014-01-31
2014-02-01
KS 0, chi2 9.86983e-294
1500
1000
500
0
-200
-100
0
100
200
cosmictrackana/startX

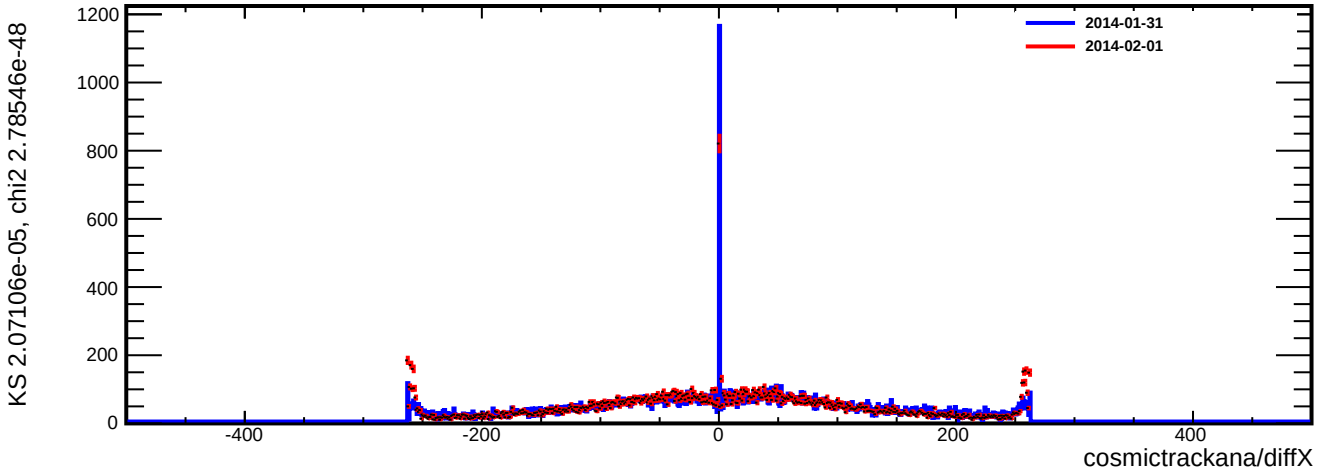

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0.2
0
-0.2
-0.4
-200
-100
0
100
200
cosmictrackana/startX

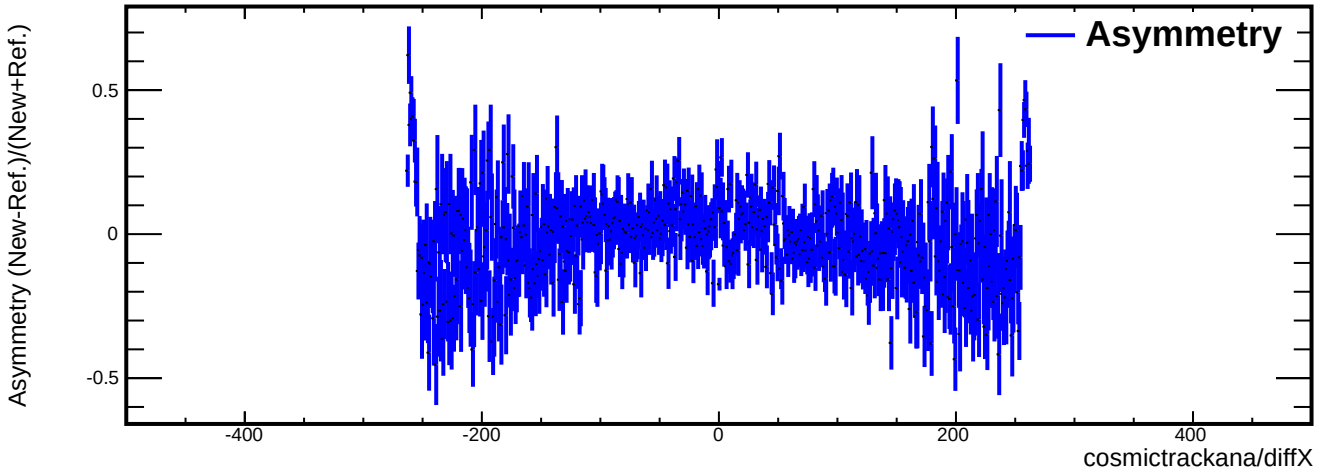

2014-01-31
2014-02-01
KS 0, chi2 0
4000
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/startY

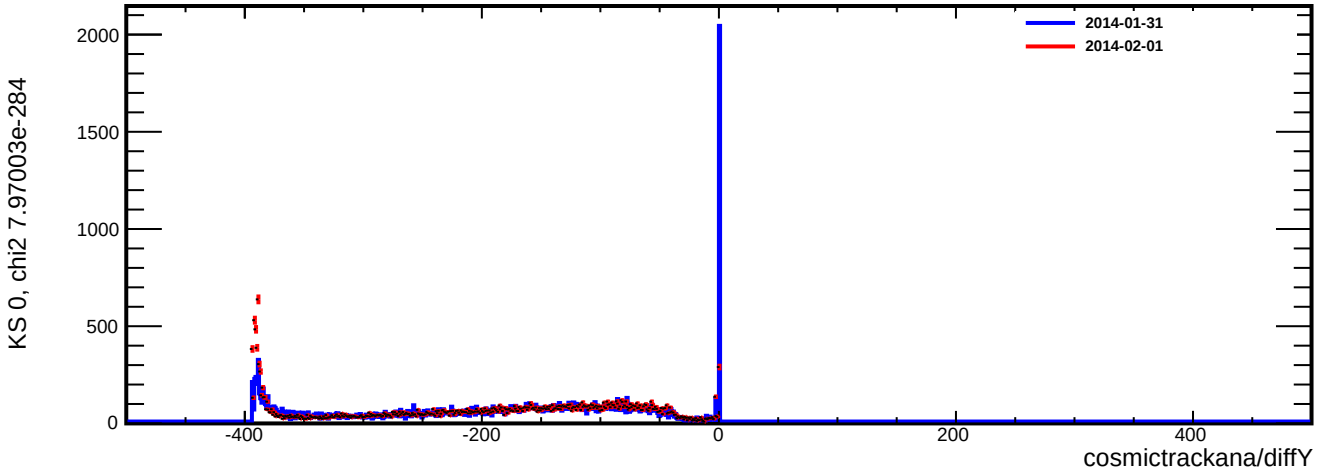

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/startY

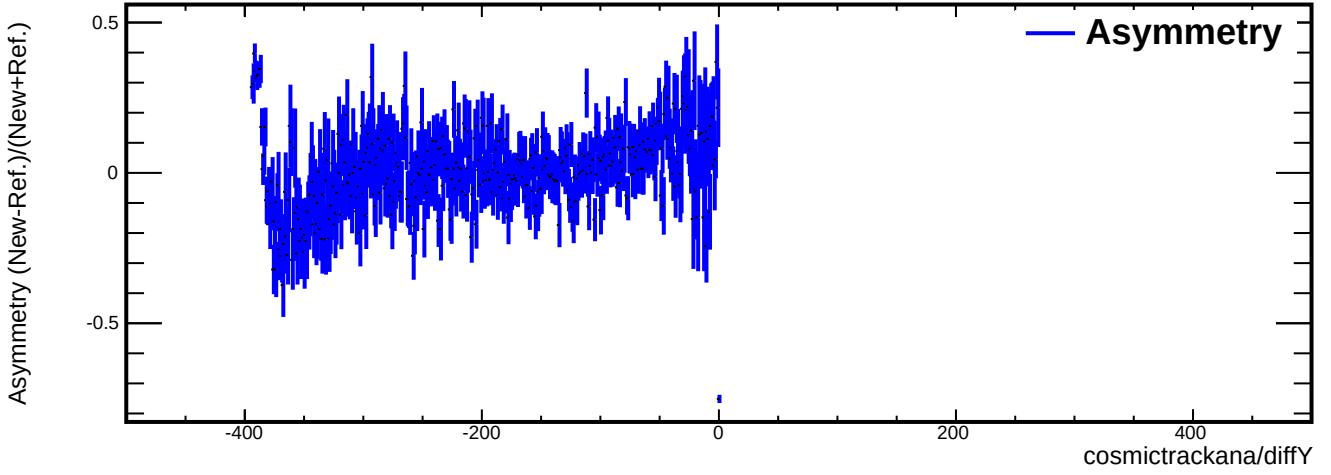

2014-01-31
2014-02-01
KS 0, chi2 0
400
300
200
100
0
0
500
1000
1500
cosmictrackana/startZ

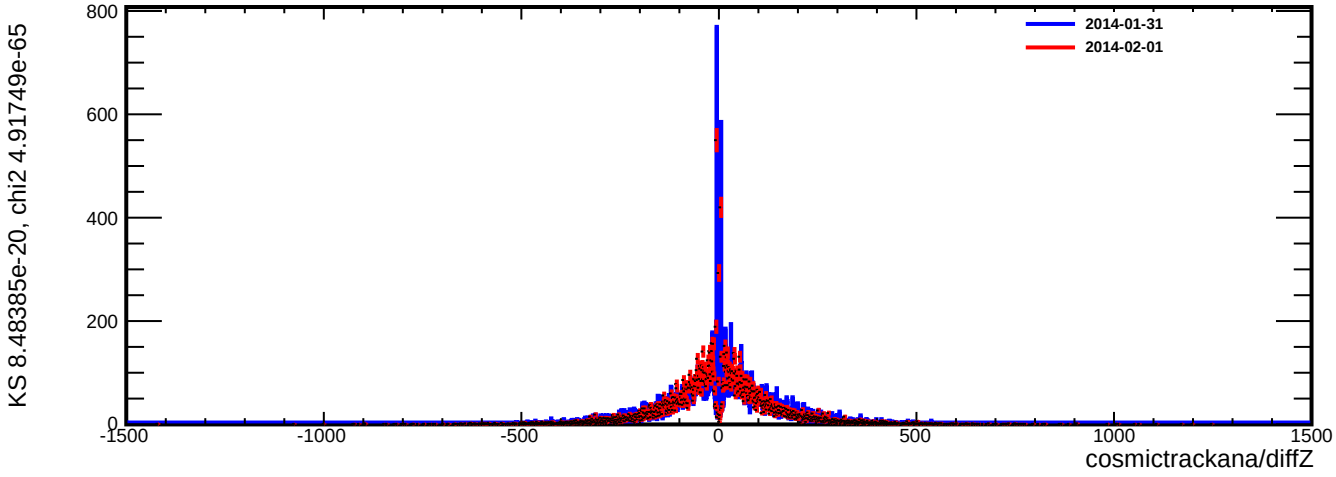

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/startZ

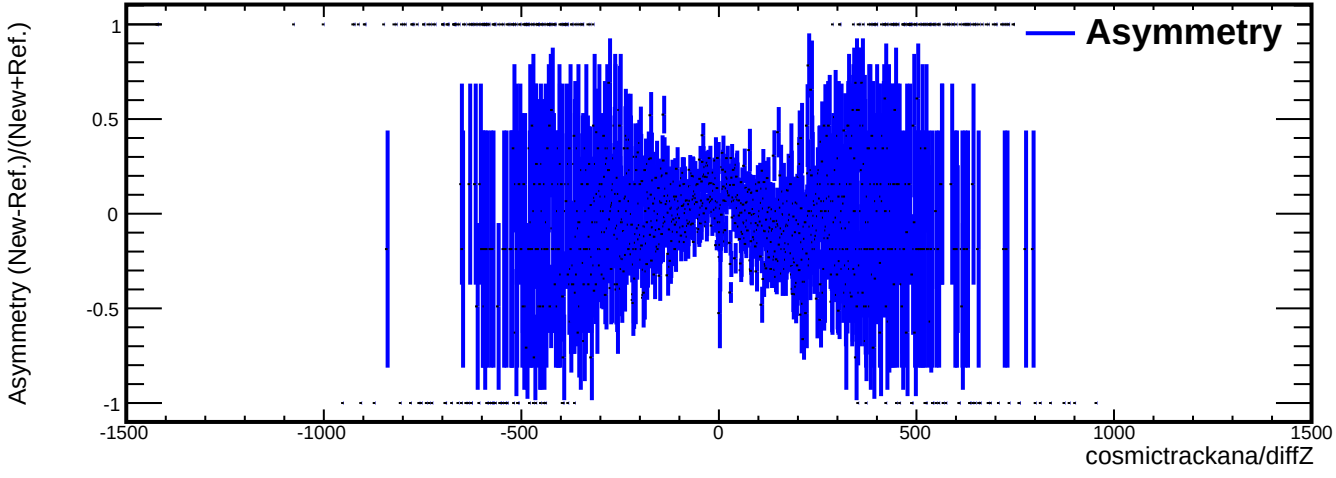

KS 2.07106e-05, chi2 2.78546e-48
2014-01-31
2014-02-01
1200
1000
800
600
400
200
0
-400
-200
0
200
400
cosmictrackana/diffX

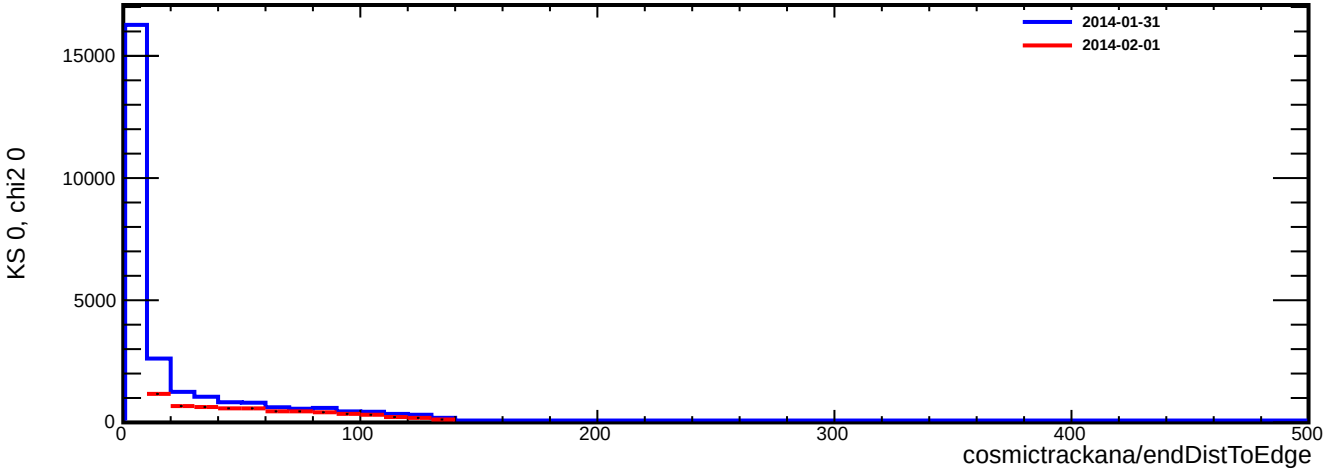

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
-400
-200
0
200
400
cosmictrackana/diffX

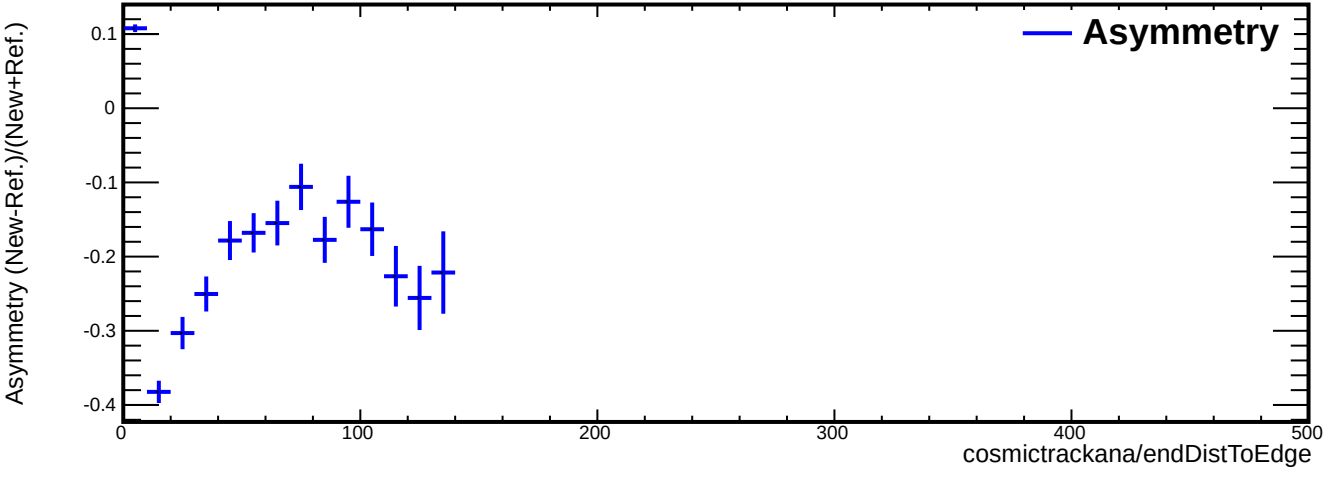

KS 0, chi2 7.97003e-284
2014-01-31
2014-02-01
2000
1500
1000
500
0
-400
-200
0
200
400
cosmictrackana/diffY

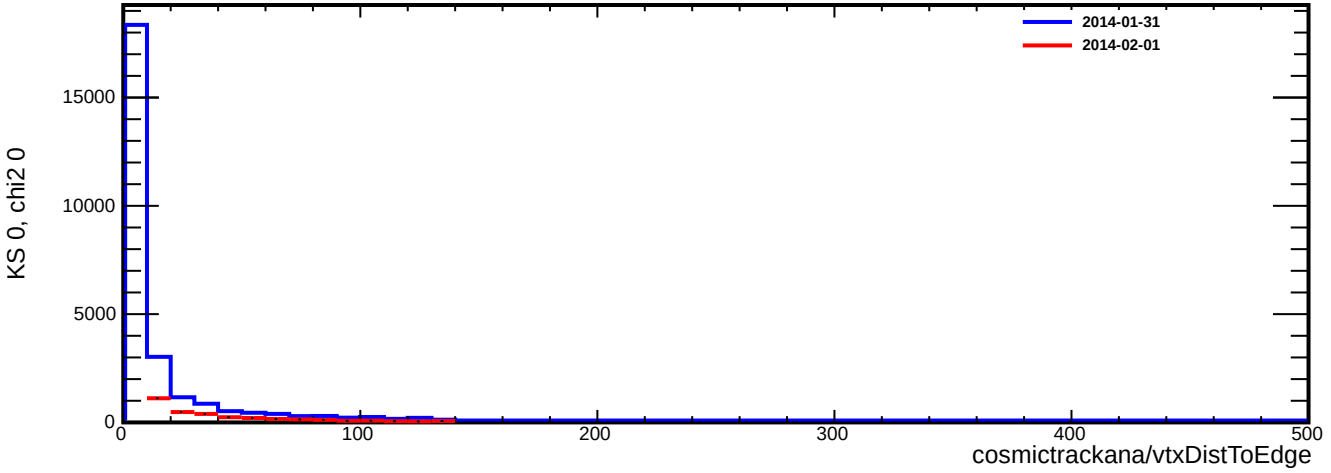

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
-400
-200
0
200
400
cosmictrackana/diffY

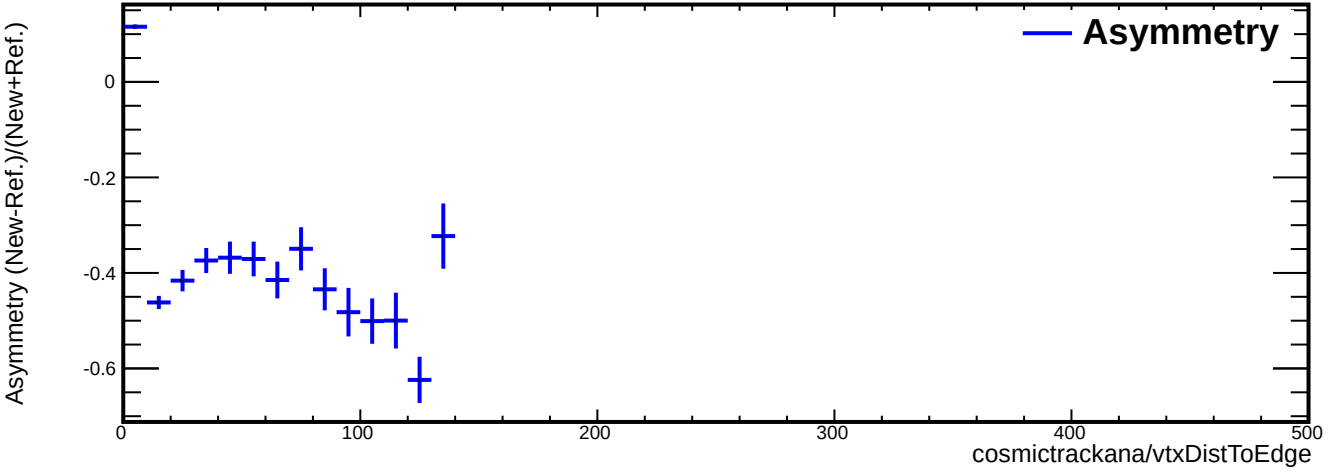

KS 8.48385e-20, chi2 4.91749e-65
2014-01-31
2014-02-01
800
600
400
200
0
-1500
-1000
-500
0
500
1000
1500
cosmictrackana/diffZ

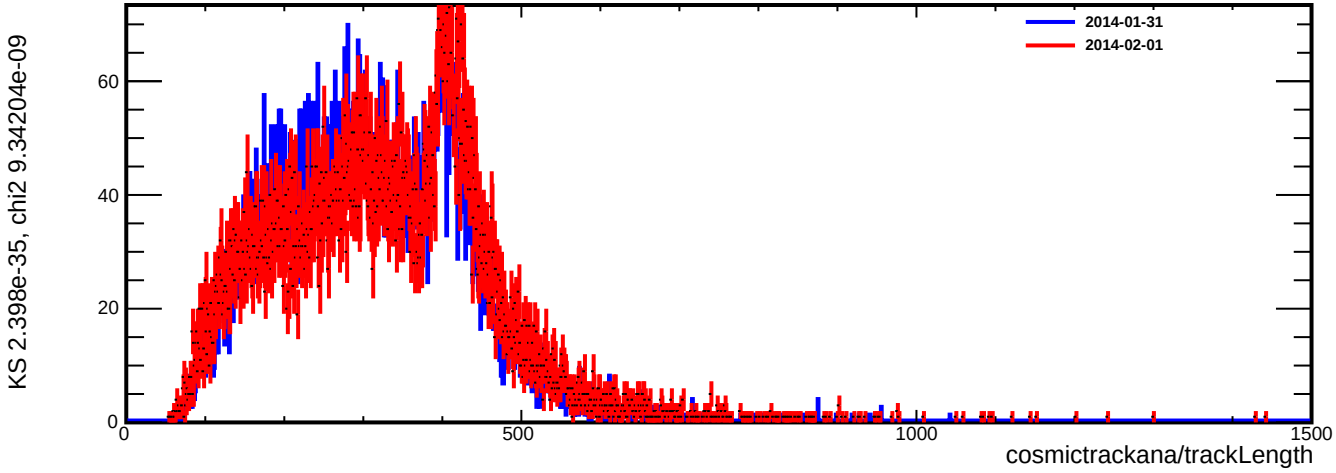

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1500
-1000
-500
0
500
1000
1500
cosmictrackana/diffZ

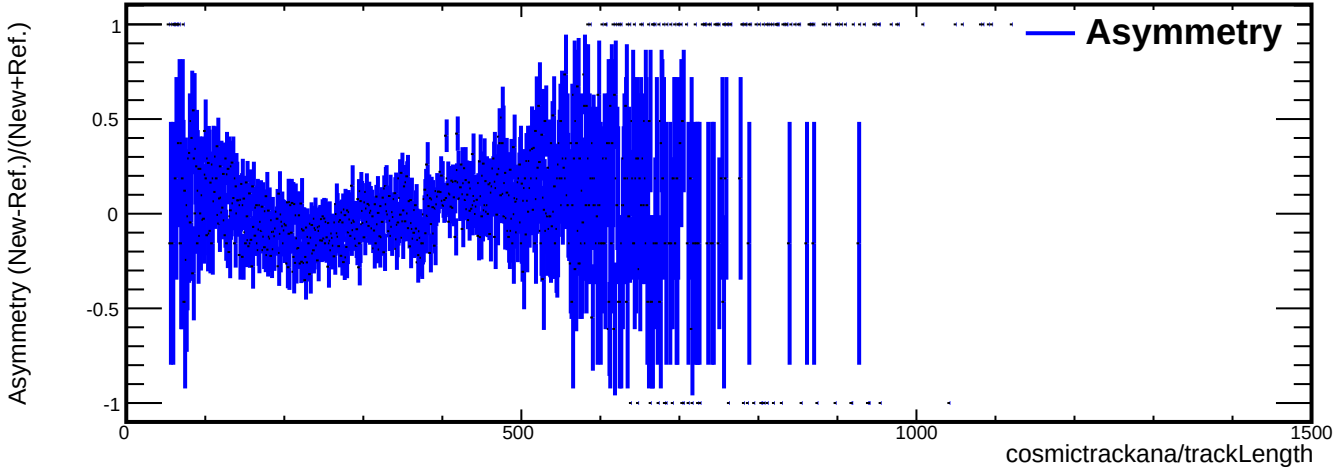

2014-01-31
2014-02-01
KS 0, chi2 0
15000
10000
5000
0
0
100
200
300
400
500
cosmictrackana/endDistToEdge

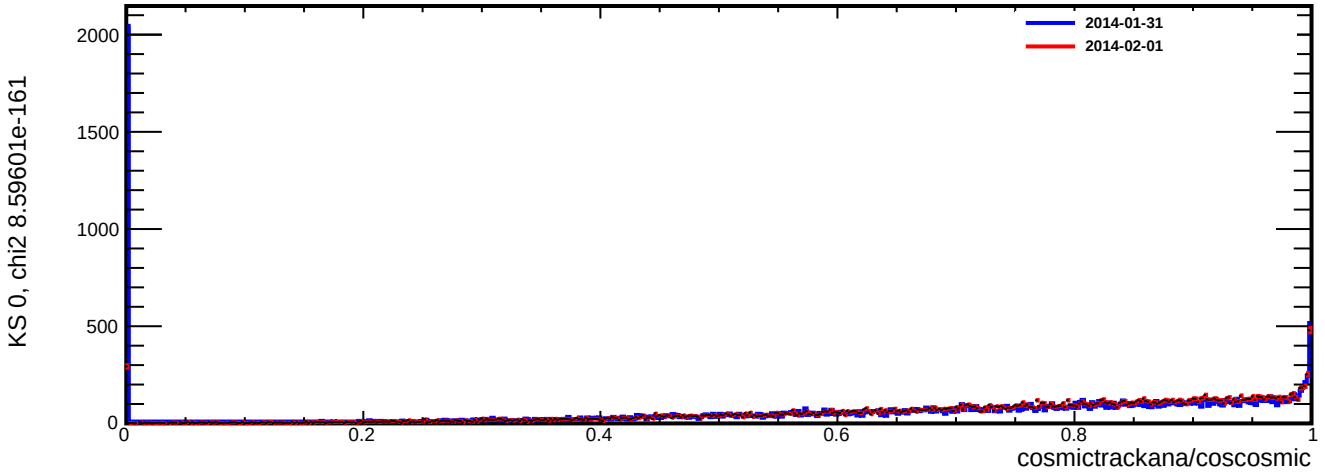

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0.1
0
-0.1
-0.2
-0.3
-0.4
0
100
200
300
400
500
cosmictrackana/endDistToEdge

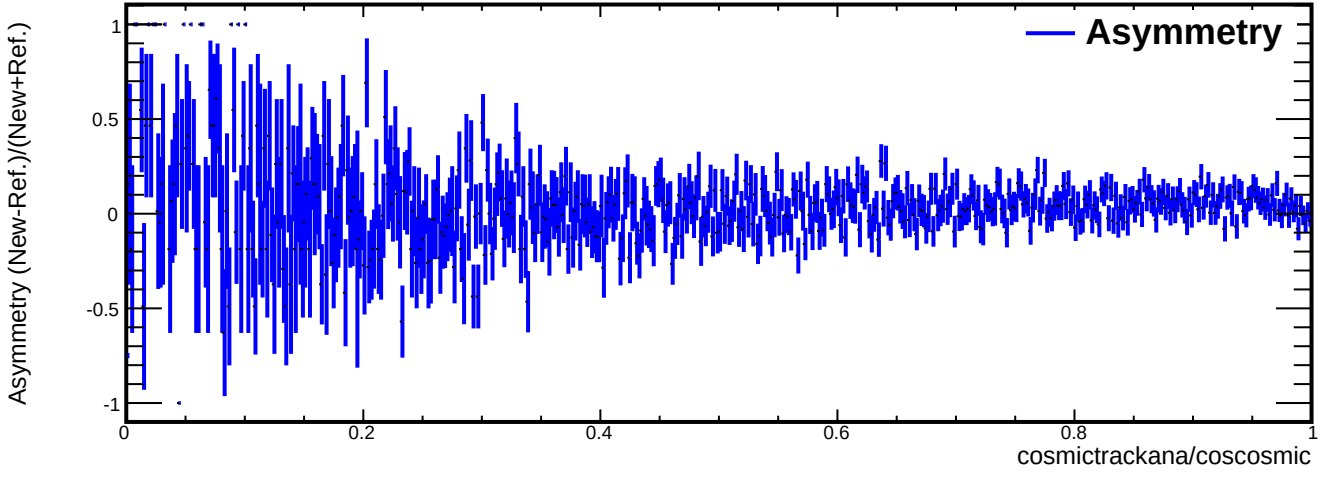

2014-01-31
2014-02-01
KS 0, chi2 0
15000
10000
5000
0
0
100
200
300
400
500
cosmictrackana/vtxDistToEdge

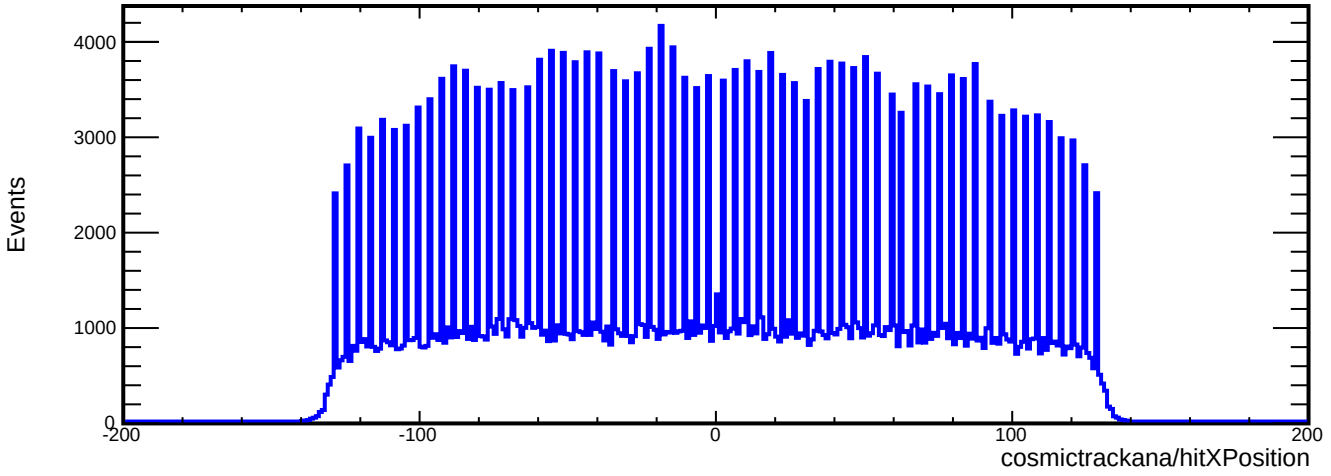

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0
-0.2
-0.4
-0.6
0
100
200
300
400
500
cosmictrackana/vtxDistToEdge

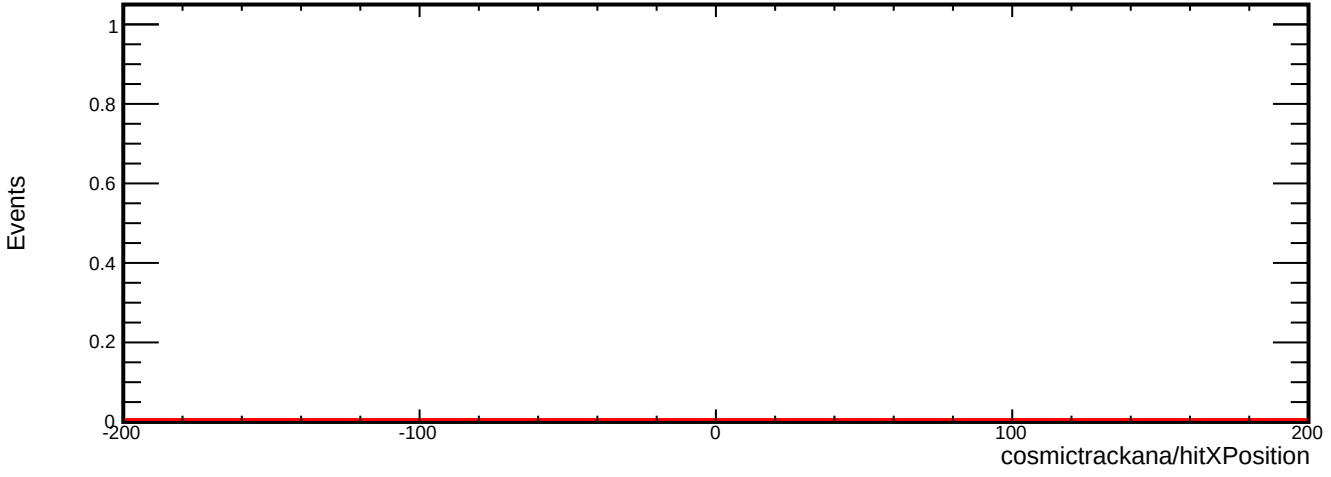

KS 2.398e-35, chi2 9.34204e-09
2014-01-31
2014-02-01
0
20
40
60
0
500
1000
1500
cosmictrackana/trackLength

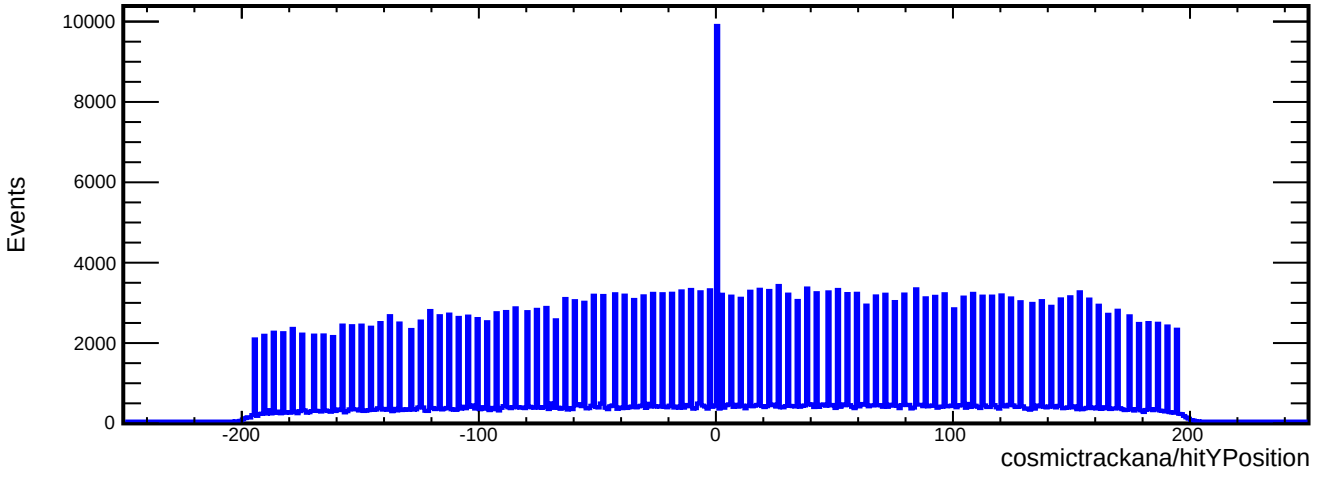

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/trackLength

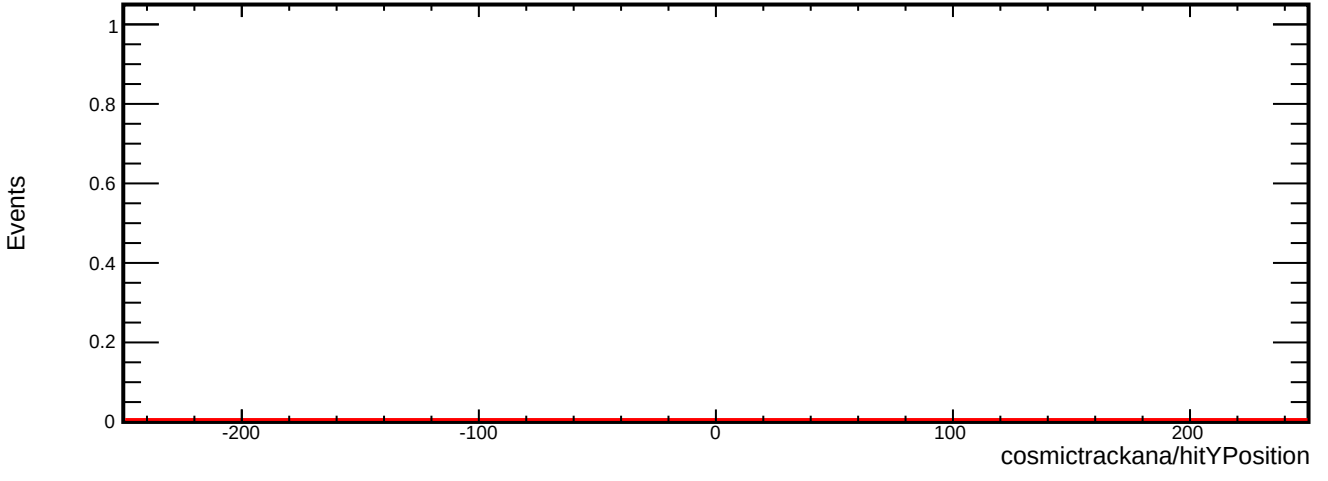

2014-01-31
2014-02-01
KS 0, chi2 8.59601e-161
2000
1500
1000
500
0
0
0.2
0.4
0.6
0.8
1
cosmictrackana/coscosmic

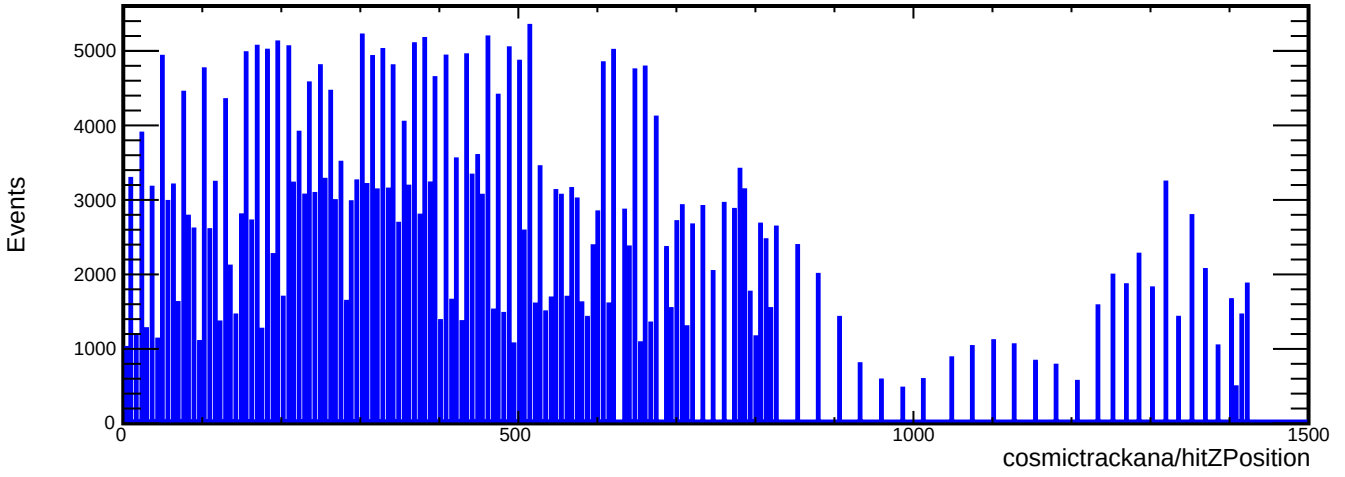

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
0.2
0.4
0.6
0.8
1
cosmictrackana/coscosmic

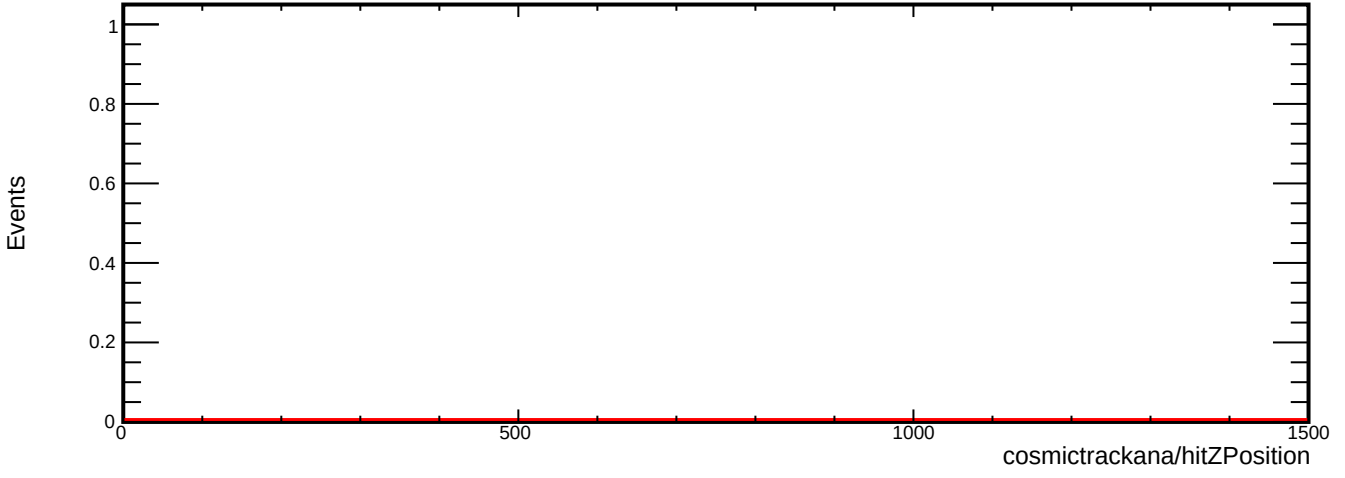

Events
4000
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/hitXPosition

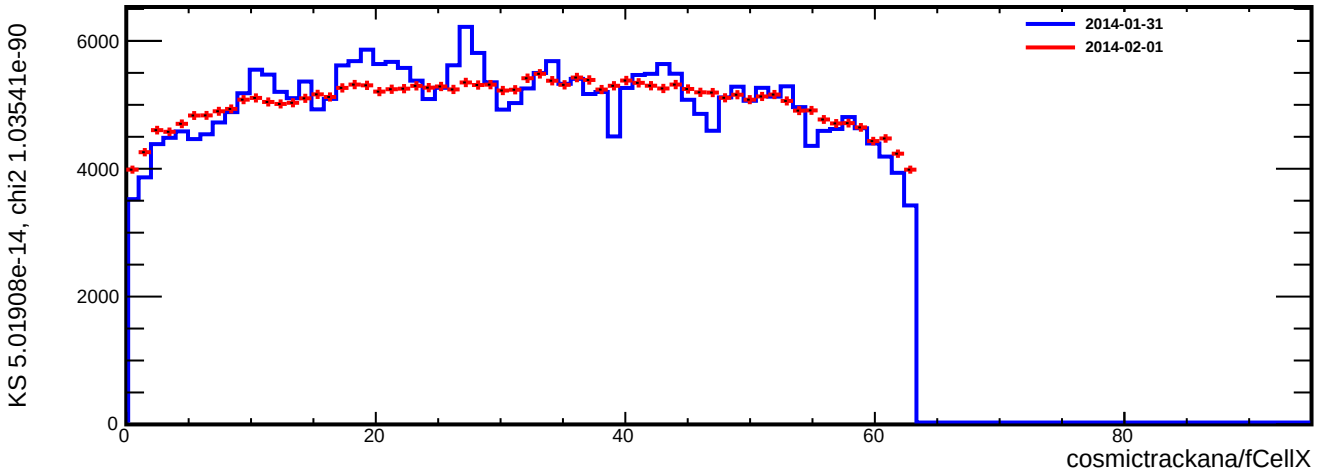

Events
1
0.8
0.6
0.4
0.2
0
-200
-100
0
100
200
cosmictrackana/hitXPosition

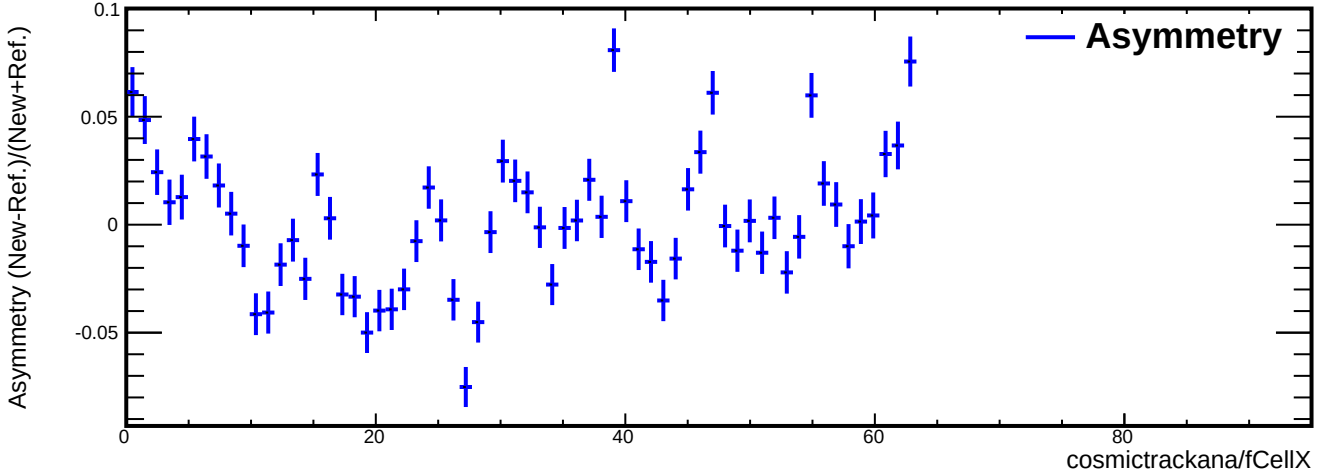

Events
10000
8000
6000
4000
2000
0
-200
-100
0
100
200
cosmictrackana/hitYPosition

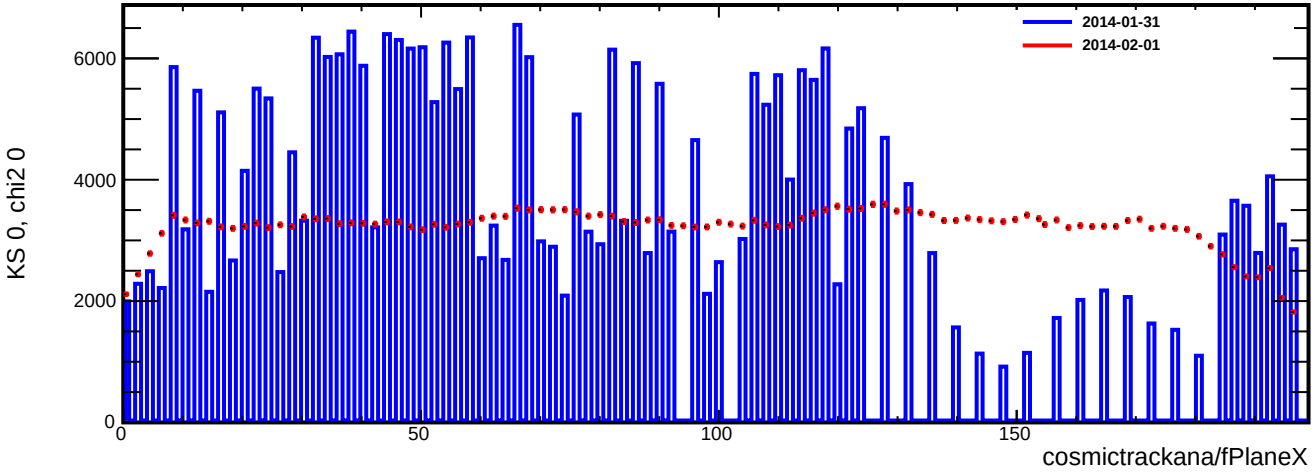

Events
1
0.8
0.6
0.4
0.2
0
-200
-100
0
100
200
cosmictrackana/hitYPosition

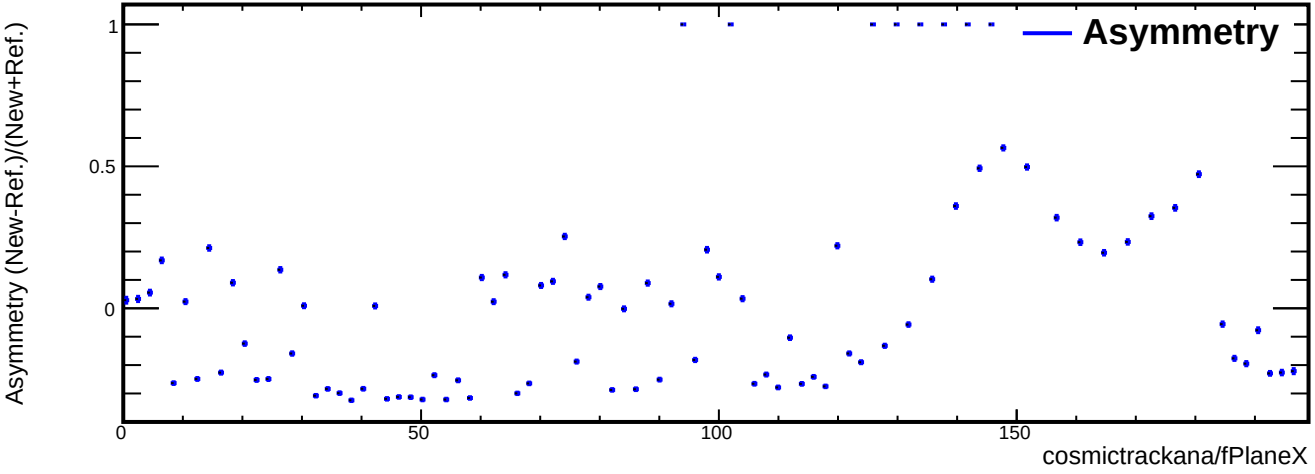

Events
5000
4000
3000
2000
1000
0
0
500
1000
1500
cosmictrackana/hitZPosition

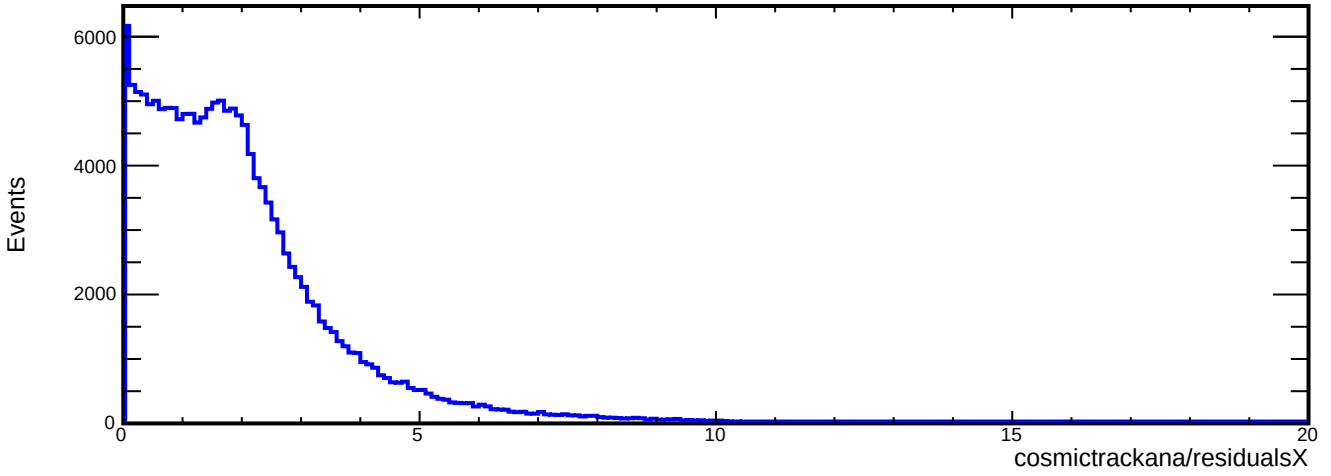

Events
1
0.8
0.6
0.4
0.2
0
0
500
1000
1500
cosmictrackana/hitZPosition

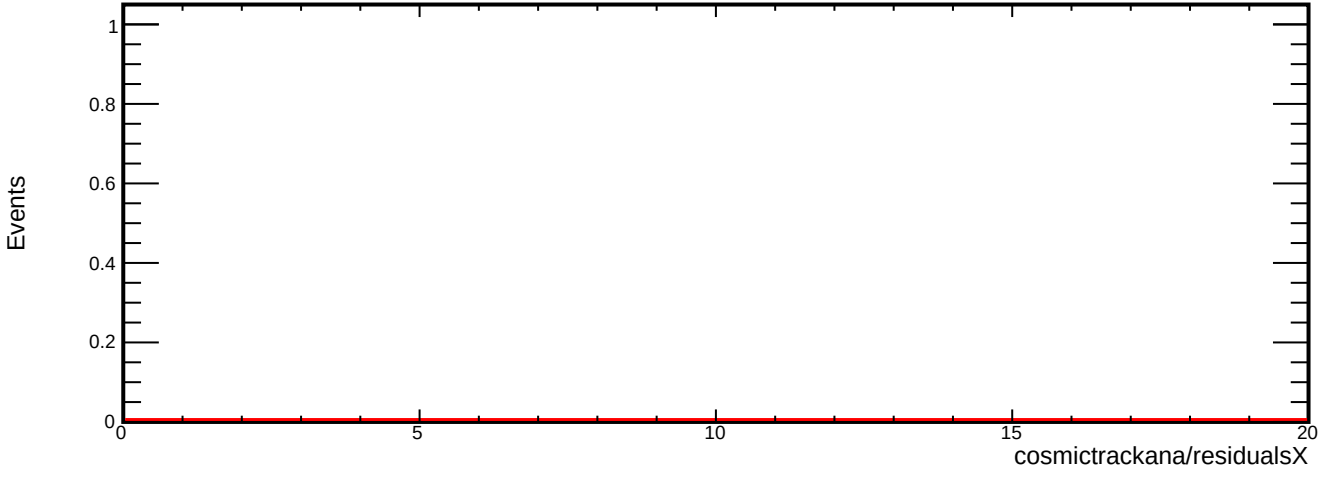

KS 5.01908e-14, chi2 1.03541e-90
2014-01-31
2014-02-01
6000
4000
2000
0
0
20
40
60
80
cosmictrackana/fCellX

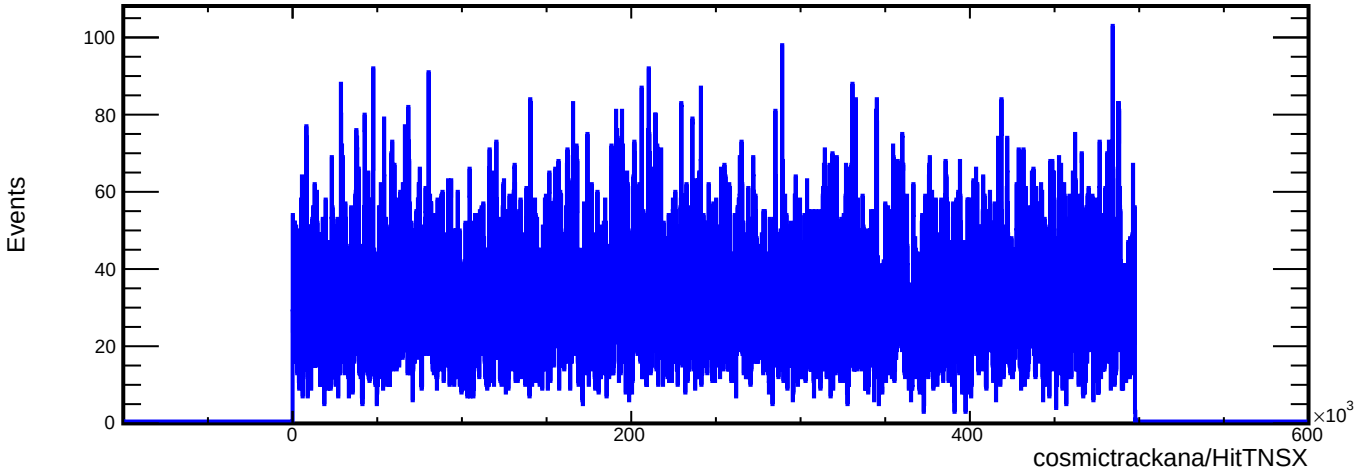

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.1
0.05
0
-0.05
0
20
40
60
80
cosmictrackana/fCellX

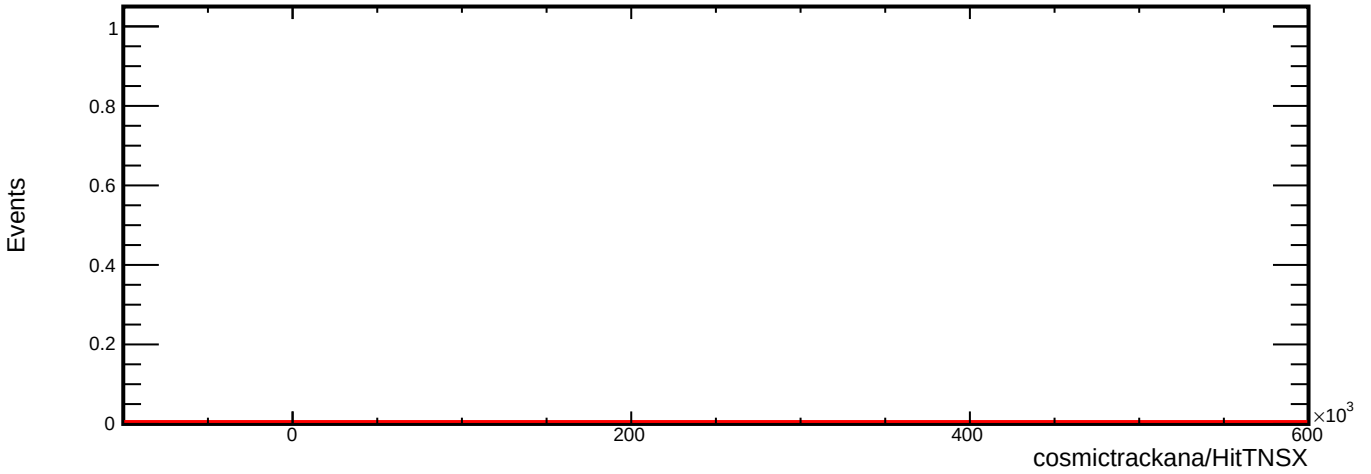

2014-01-31
2014-02-01
KS 0, chi2 0
6000
4000
2000
0
0
50
100
150
cosmictrackana/fPlaneX

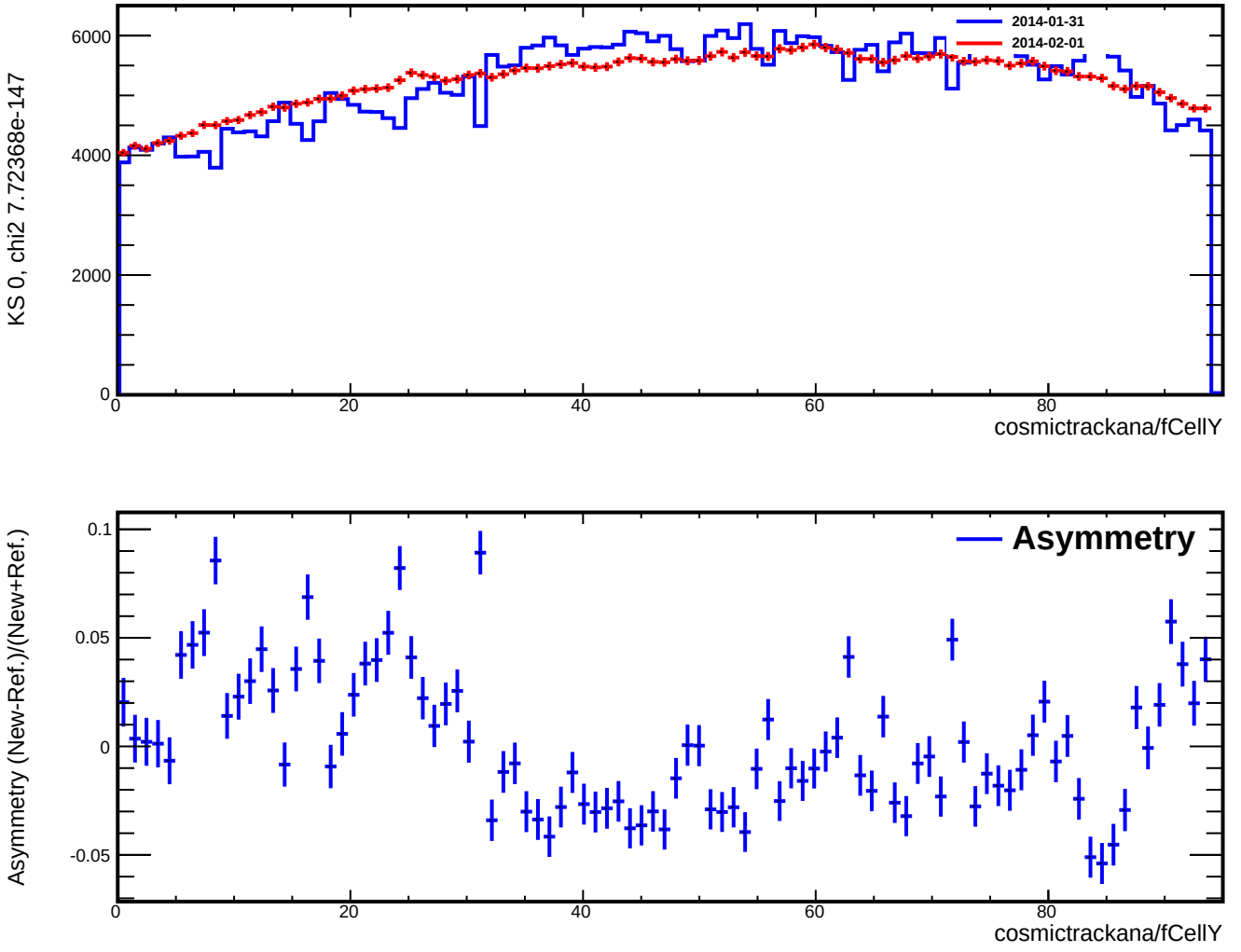

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
0
50
100
150
cosmictrackana/fPlaneX

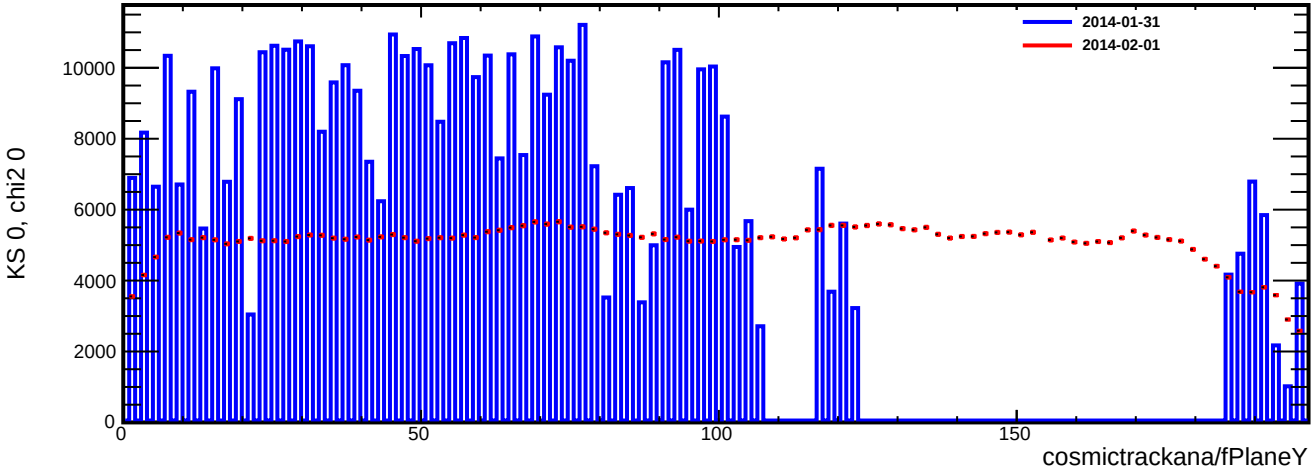

Events
6000
4000
2000
0
0
5
10
15
20
cosmictrackana/residualsX

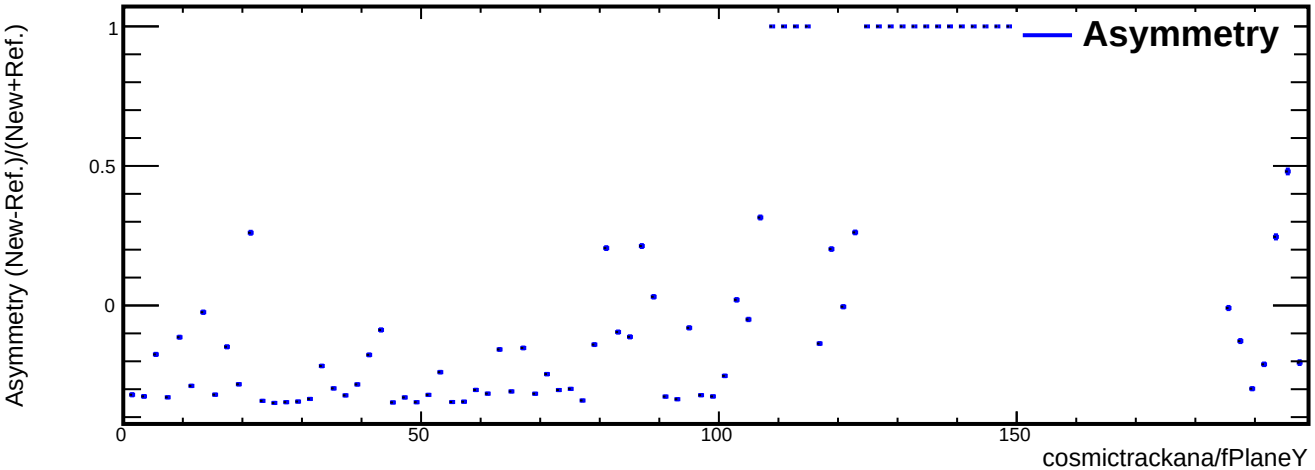

Events
1
0.8
0.6
0.4
0.2
0
0
5
10
15
20
cosmictrackana/residualsX

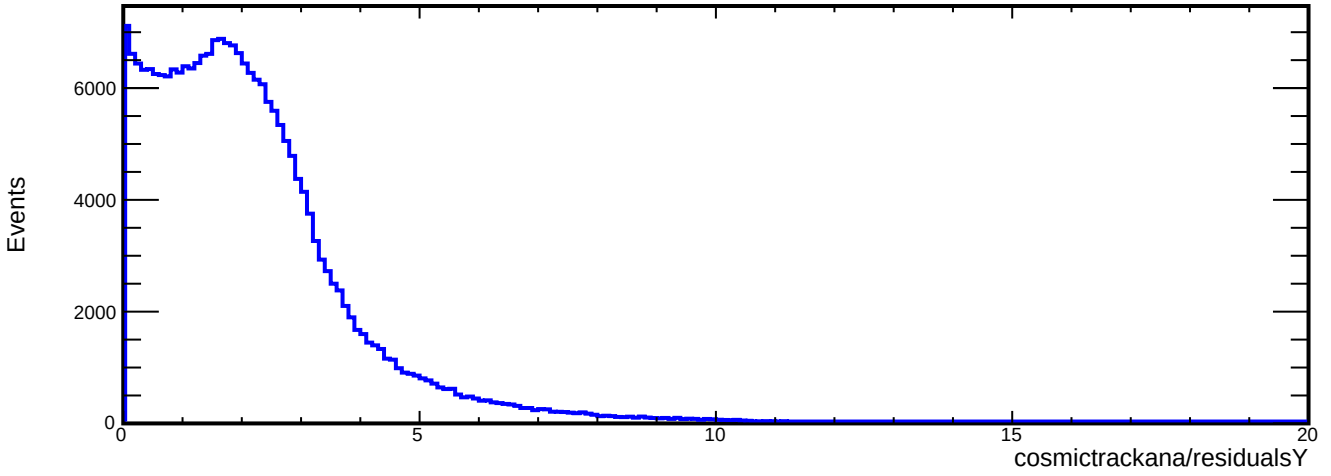

Events
100
80
60
40
20
0
0
200
400
600
×10^3
cosmictrackana/HitTNSX

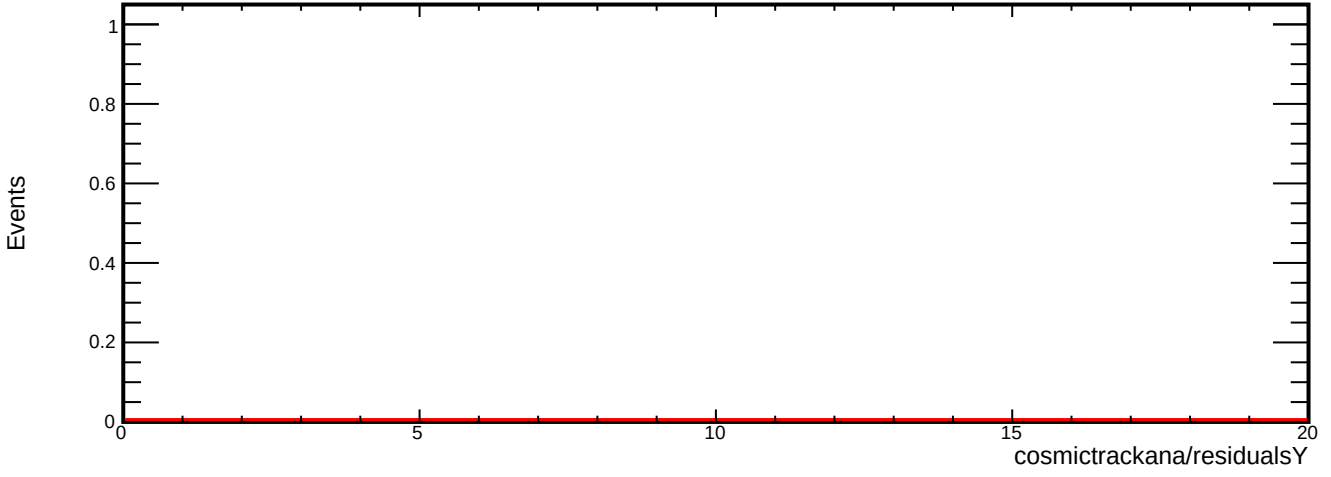

Events
1
0.8
0.6
0.4
0.2
0
0
200
400
600
×10^3
cosmictrackana/HitTNSX

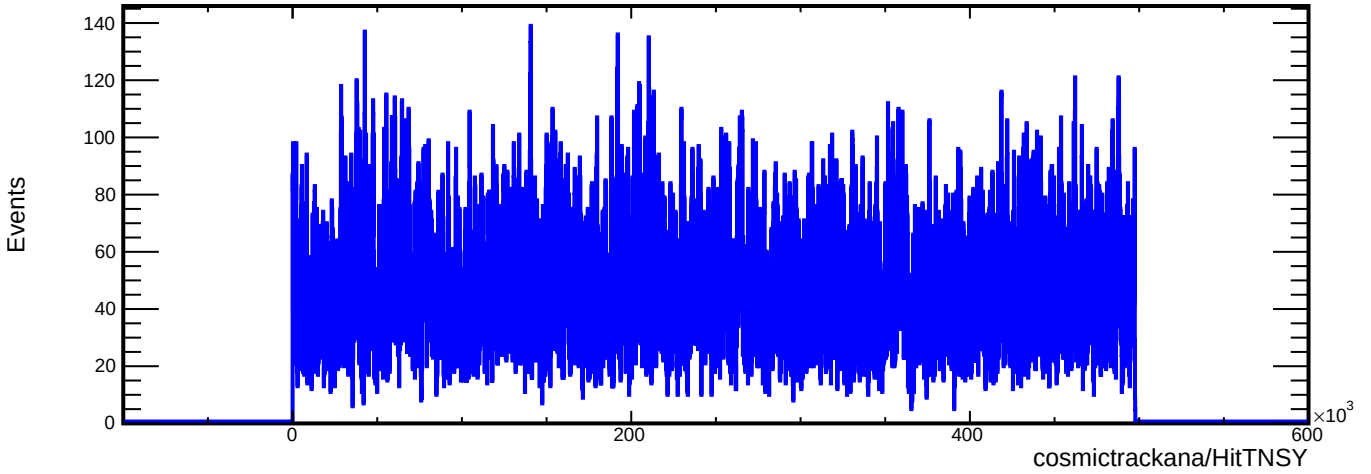

KS 0, chi2 7.72368e-147
6000
4000
2000
0
0
20
40
60
80
cosmictrackana/fCellY
2014-01-31
2014-02-01
Asymmetry (New-Ref.)/(New+Ref.)
0.1
0.05
0
-0.05
0
20
40
60
80
cosmictrackana/fCellY
Asymmetry

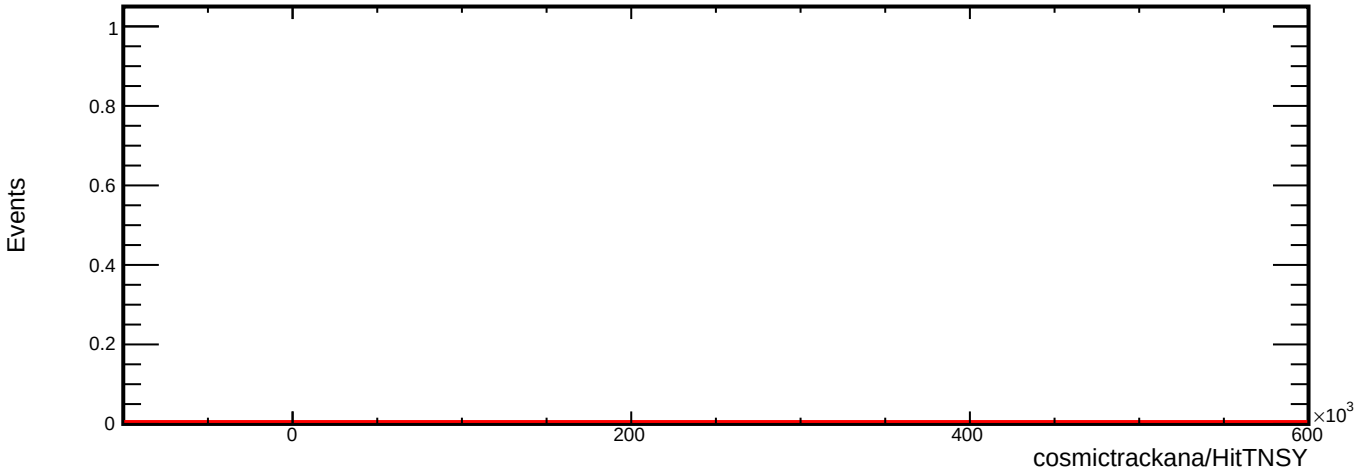

2014-01-31
2014-02-01
KS 0, chi2 0
0
2000
4000
6000
8000
10000
0
50
100
150
cosmictrackana/fPlaneY


Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
0
50
100
150
cosmictrackana/fPlaneY


Events
6000
4000
2000
0
0
5
10
15
20
cosmictrackana/residualsY


Events
1
0.8
0.6
0.4
0.2
0
0
5
10
15
20
cosmictrackana/residualsY


Events
140
120
100
80
60
40
20
0
0
200
400
600
×10^3
cosmictrackana/HitTNSY


Events
1
0.8
0.6
0.4
0.2
0
0
200
400
600
×10^3
cosmictrackana/HitTNSY