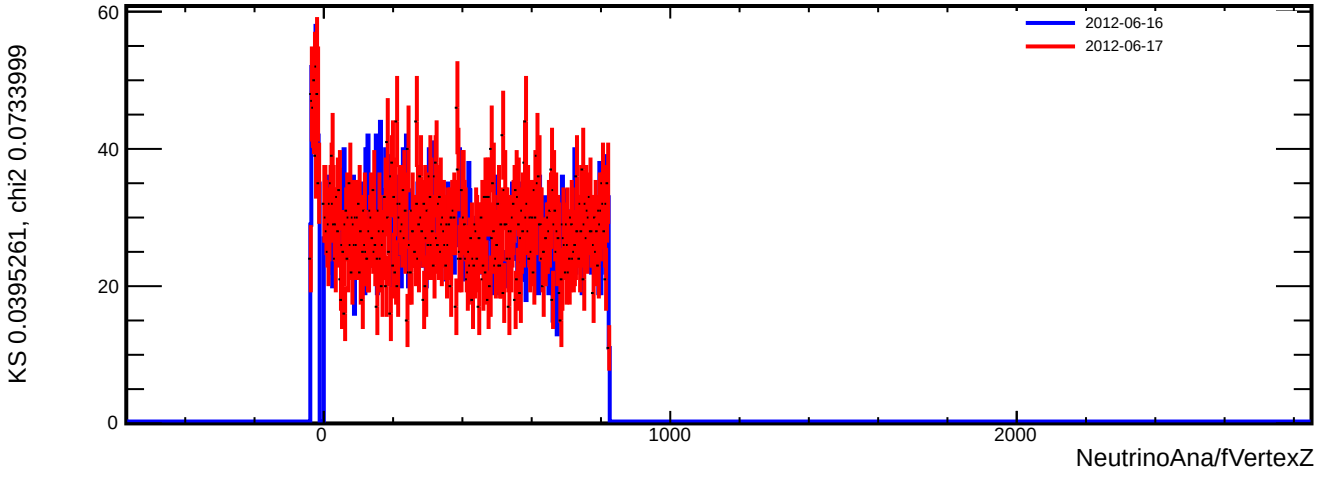
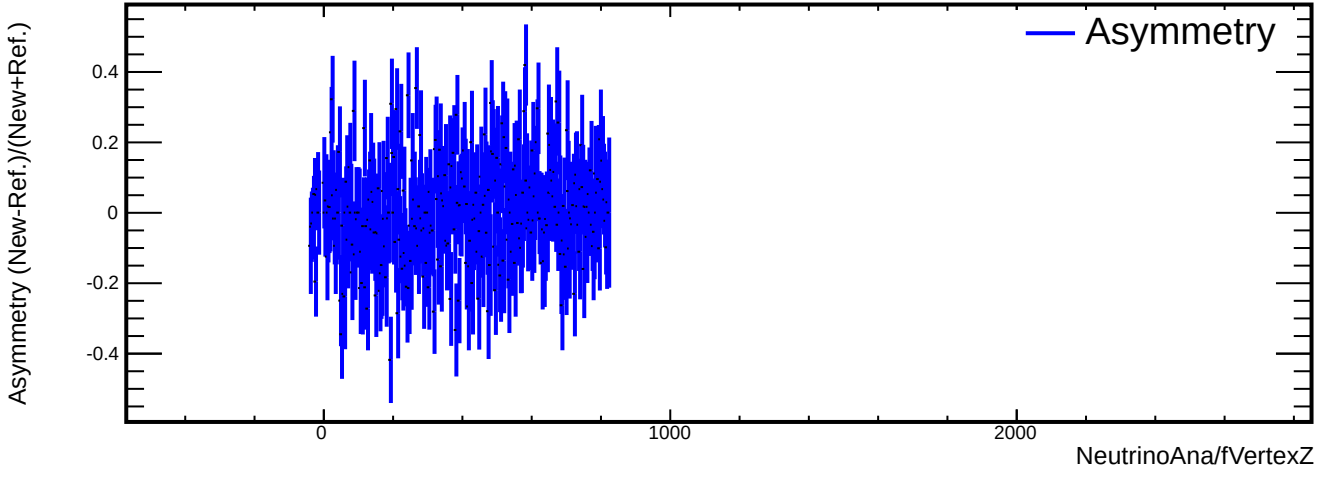
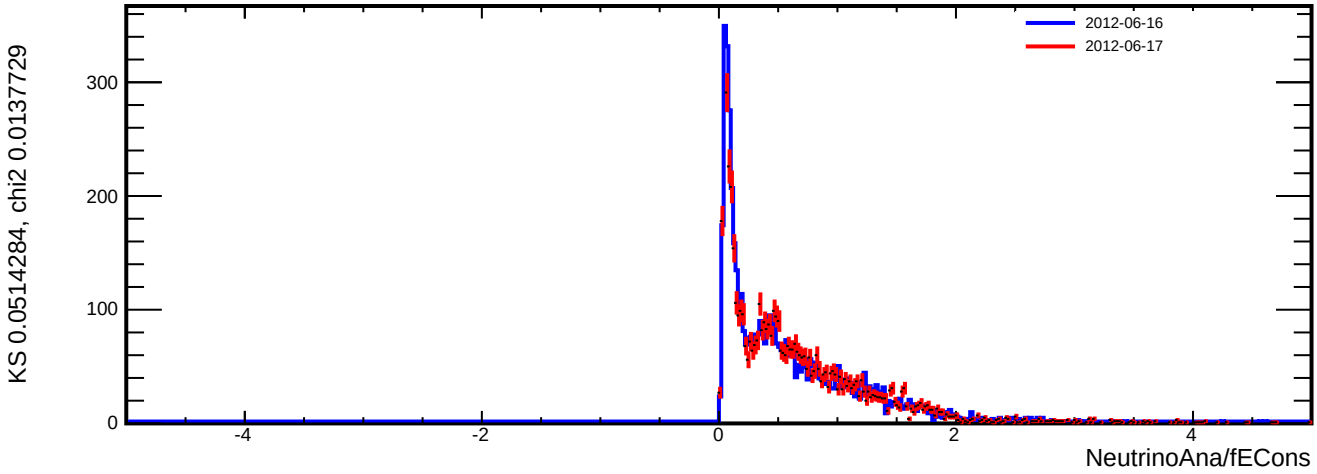
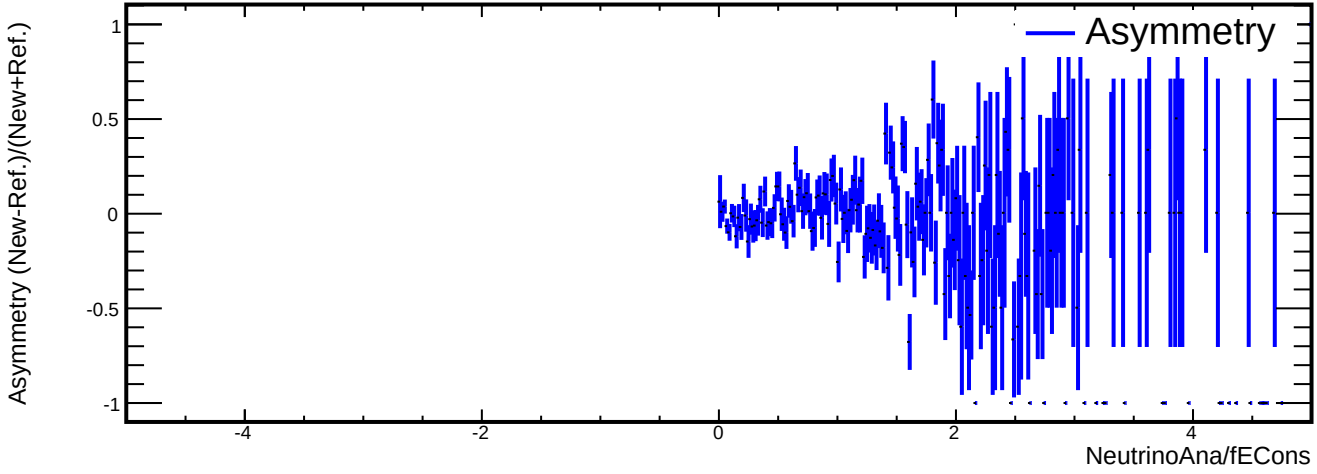
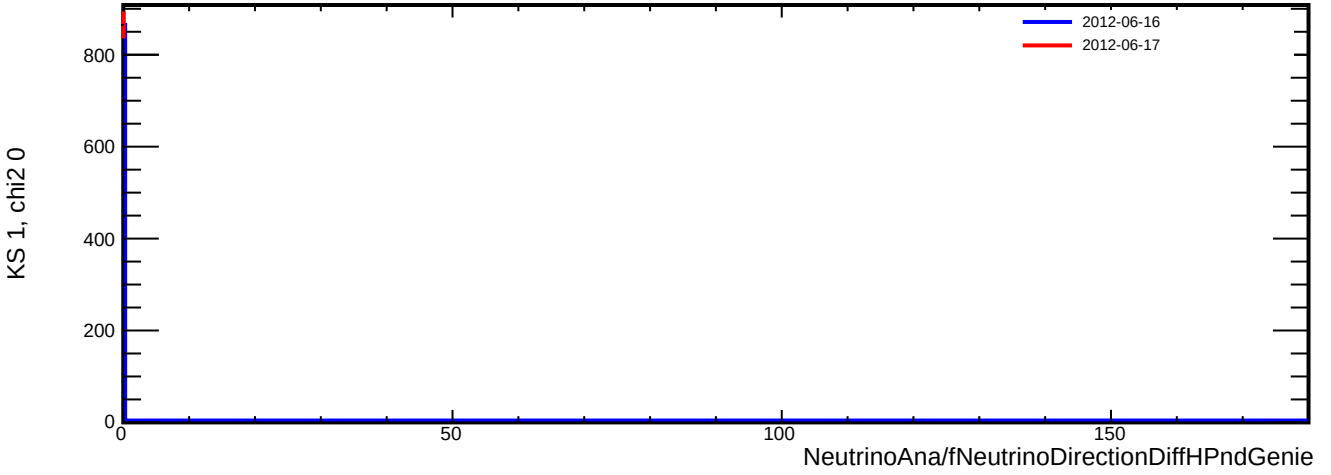
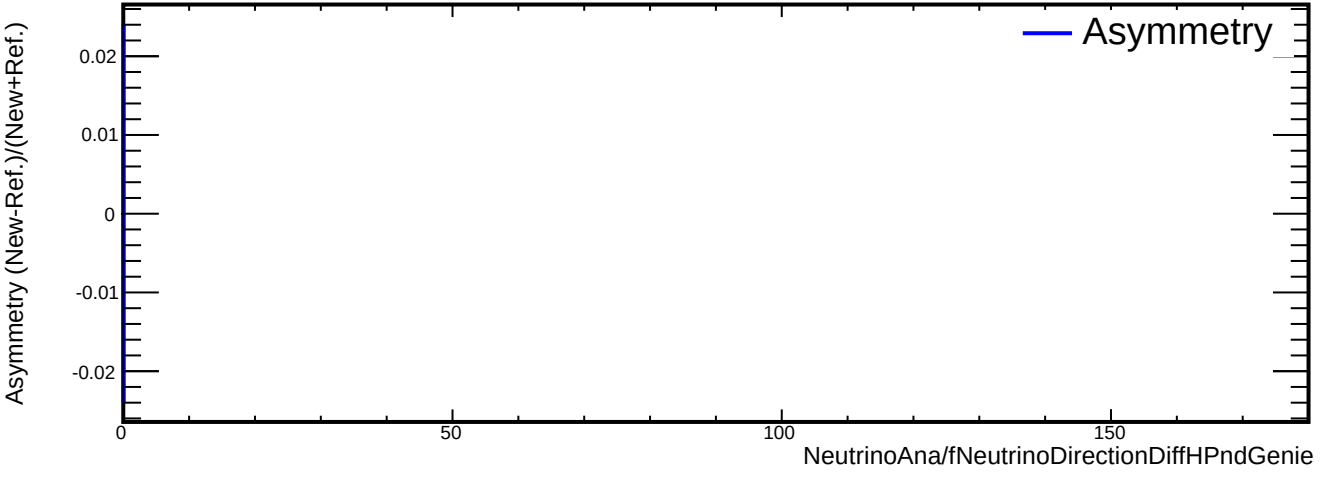

KS 0.0395261, chi2 0.0733999
60
40
20
0
0
1000
2000
NeutrinoAna/fVertexZ
2012-06-16
2012-06-17

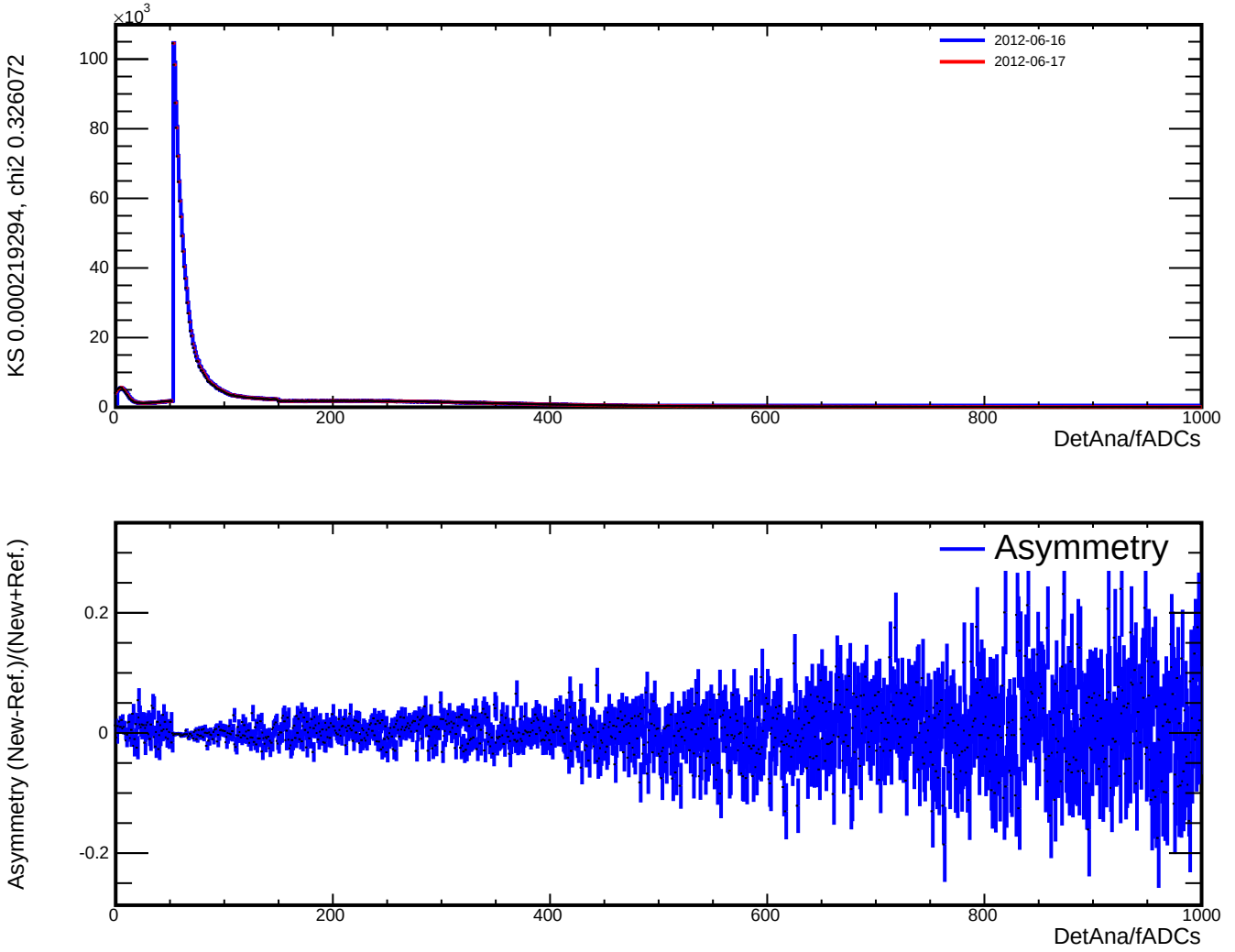

Asymmetry (New-Ref.)/(New+Ref.)
0.4
0.2
0
-0.2
-0.4
0
1000
2000
NeutrinoAna/fVertexZ
Asymmetry

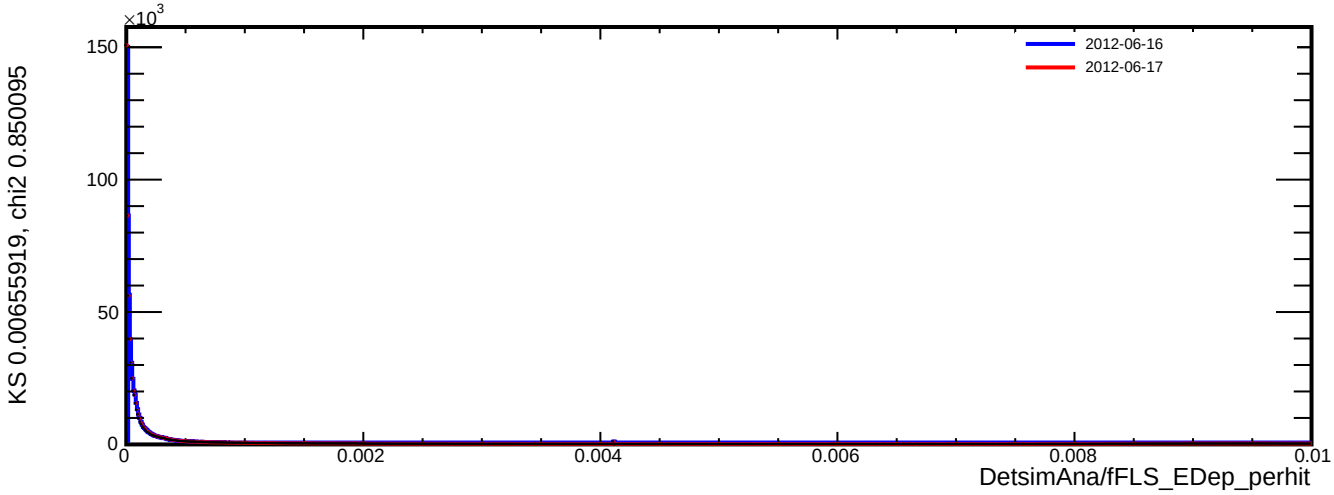

KS 0.0514284, chi2 0.0137729
2012-06-16
2012-06-17
300
200
100
0
-4
-2
0
2
4
NeutrinoAna/fECons

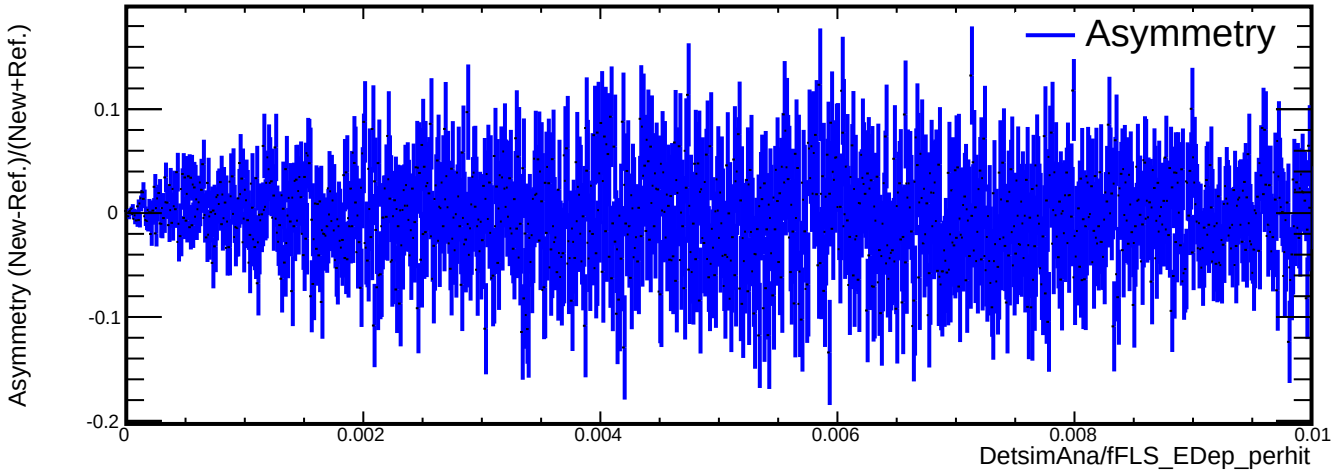

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-4
-2
0
2
4
NeutrinoAna/fECons

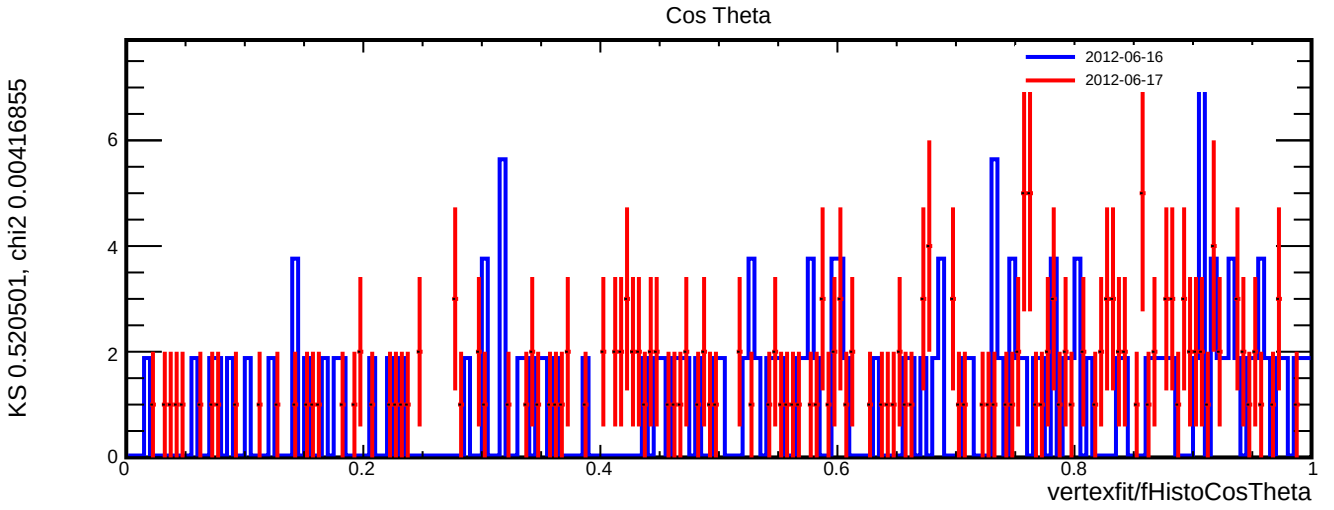

2012-06-16
2012-06-17
KS 1, chi2 0
800
600
400
200
0
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie

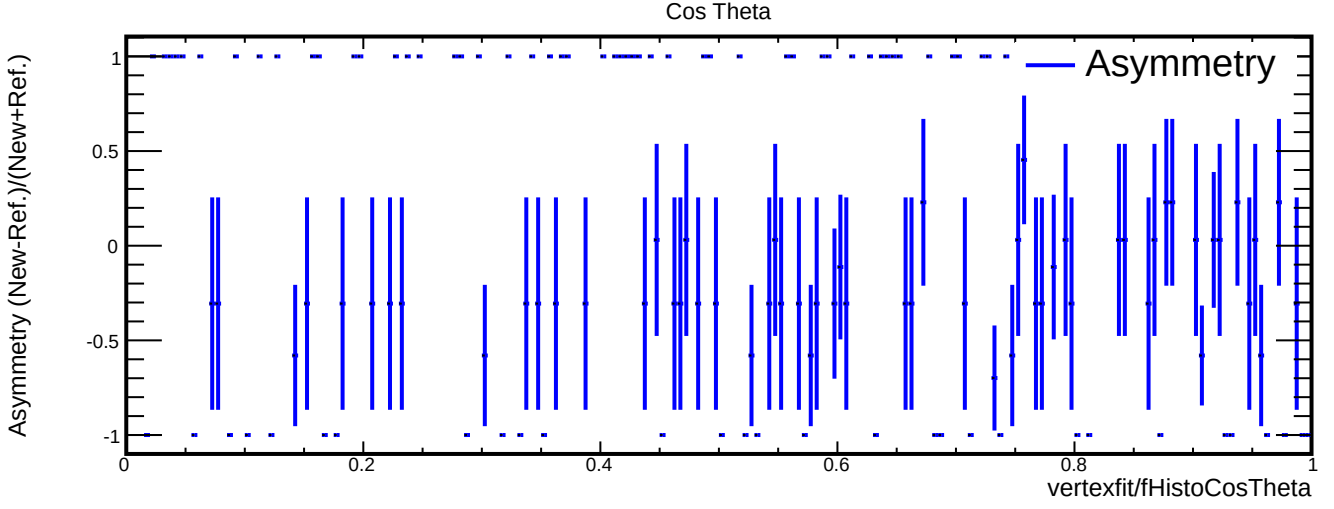

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0.02
0.01
0
-0.01
-0.02
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie

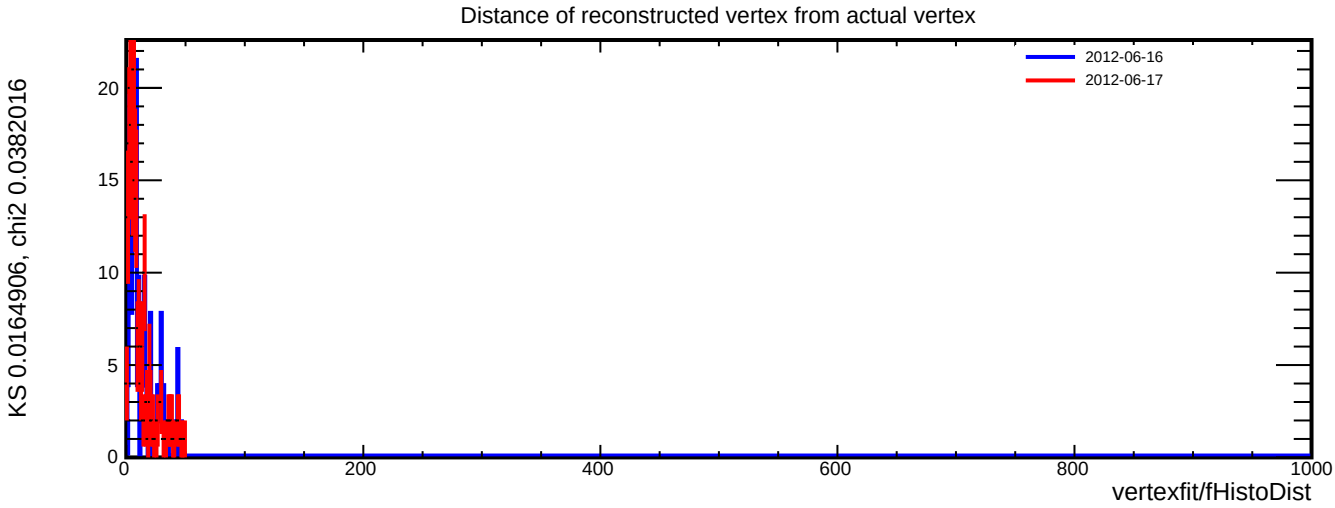

×10^3
100
80
60
40
20
0
0
200
400
600
800
1000
DetAna/fADCs
KS 0.000219294, chi2 0.326072
2012-06-16
2012-06-17
Asymmetry
0.2
0
-0.2
Asymmetry (New-Ref.)/(New+Ref.)

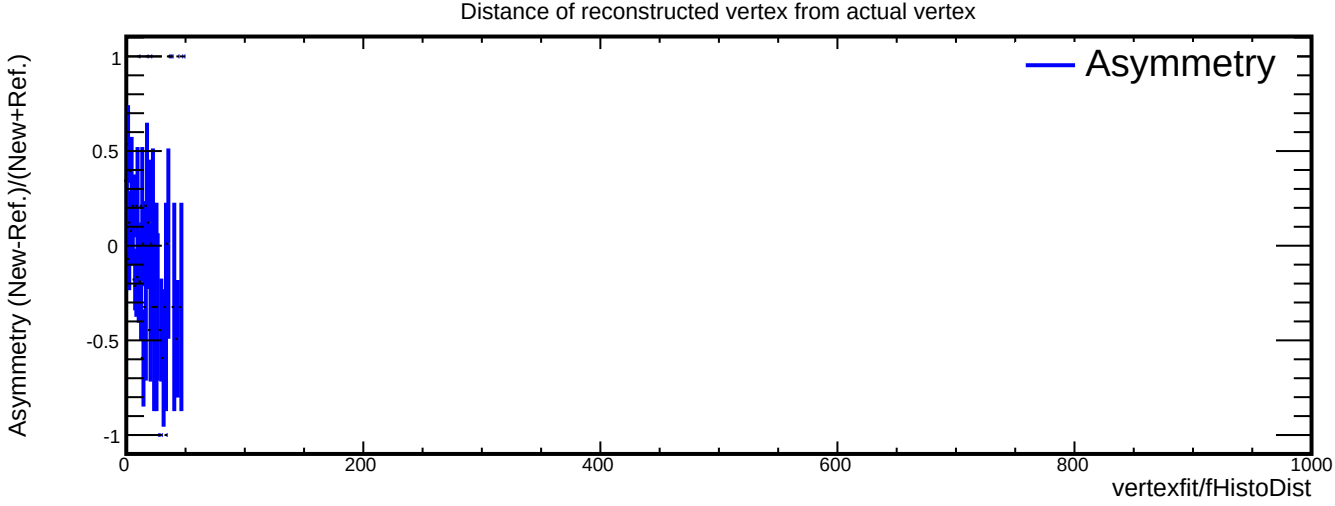

×10^3
150
100
50
0
0
0.002
0.004
0.006
0.008
0.01
KS 0.00655919, chi2 0.850095
DetsimAna/fFLS_EDep_perhit
2012-06-16
2012-06-17

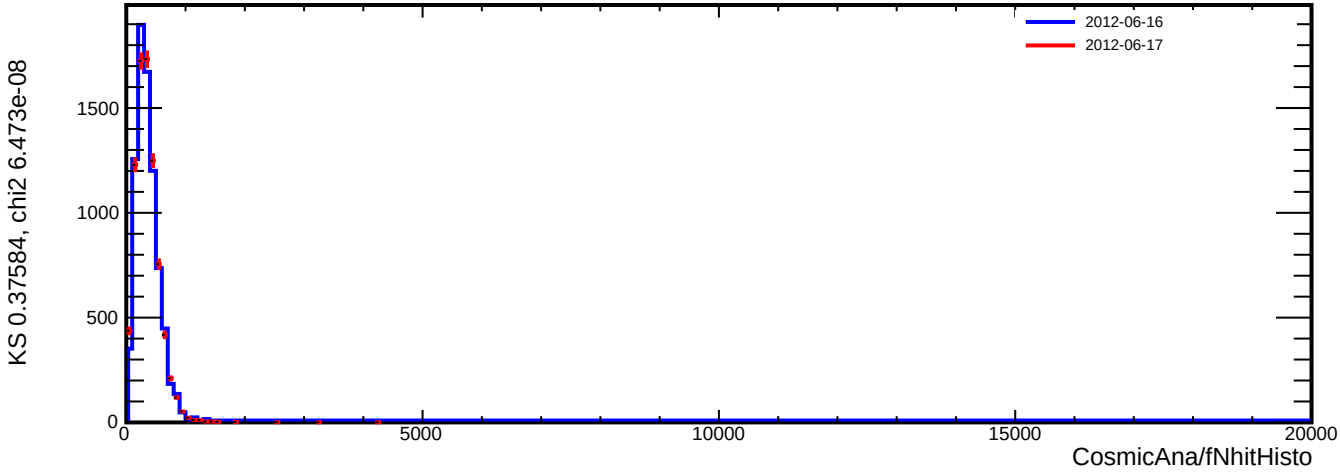

0.1
0
-0.1
-0.2
0
0.002
0.004
0.006
0.008
0.01
Asymmetry (New-Ref.)/(New+Ref.)
DetsimAna/fFLS_EDep_perhit
Asymmetry

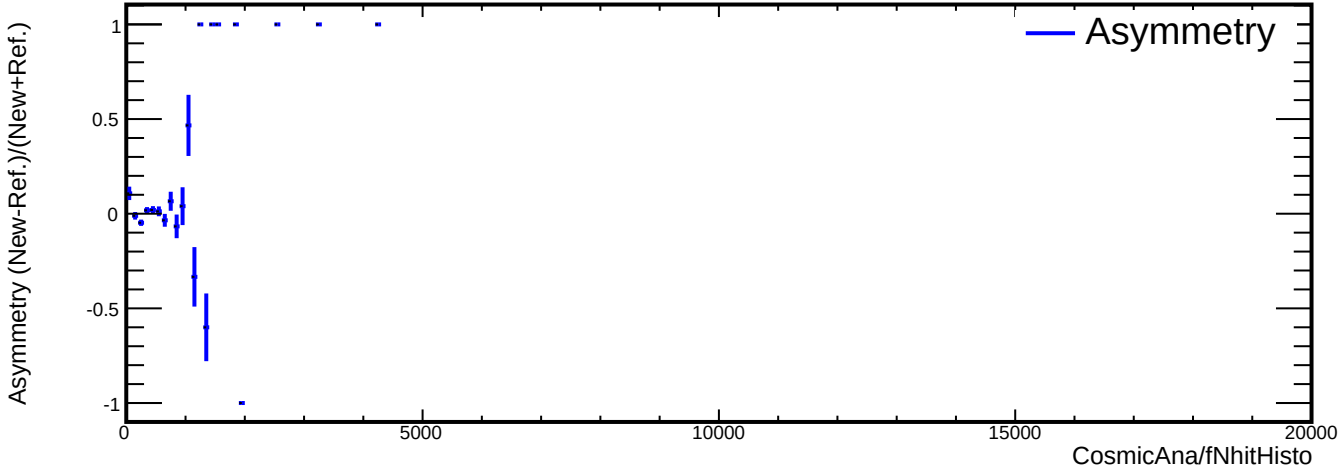

Cos Theta
KS 0.520501, chi2 0.00416855
2012-06-16
2012-06-17
0
2
4
6
0
0.2
0.4
0.6
0.8
1
vertexfit/fHistoCosTheta

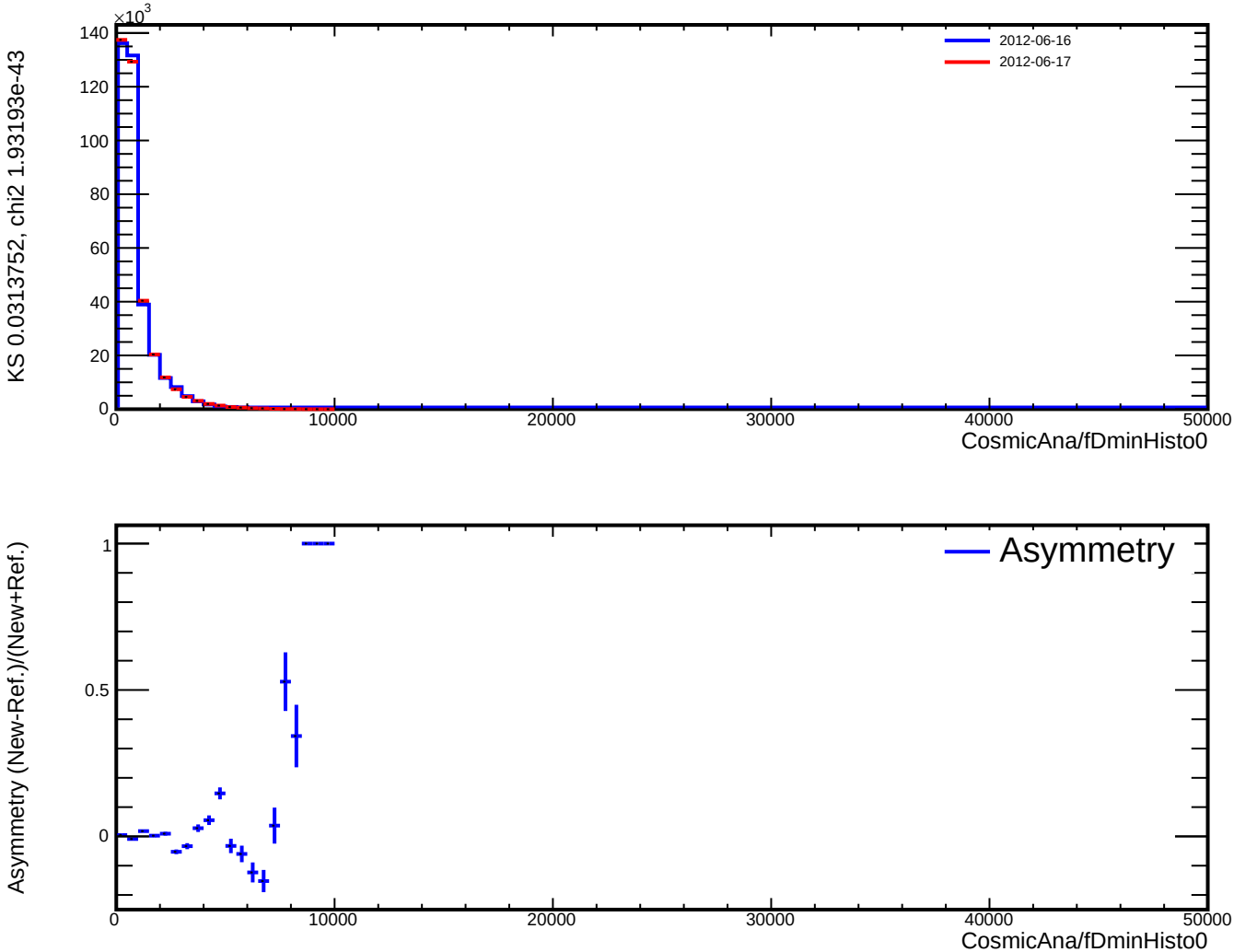

Cos Theta
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
0.2
0.4
0.6
0.8
1
vertexfit/fHistoCosTheta

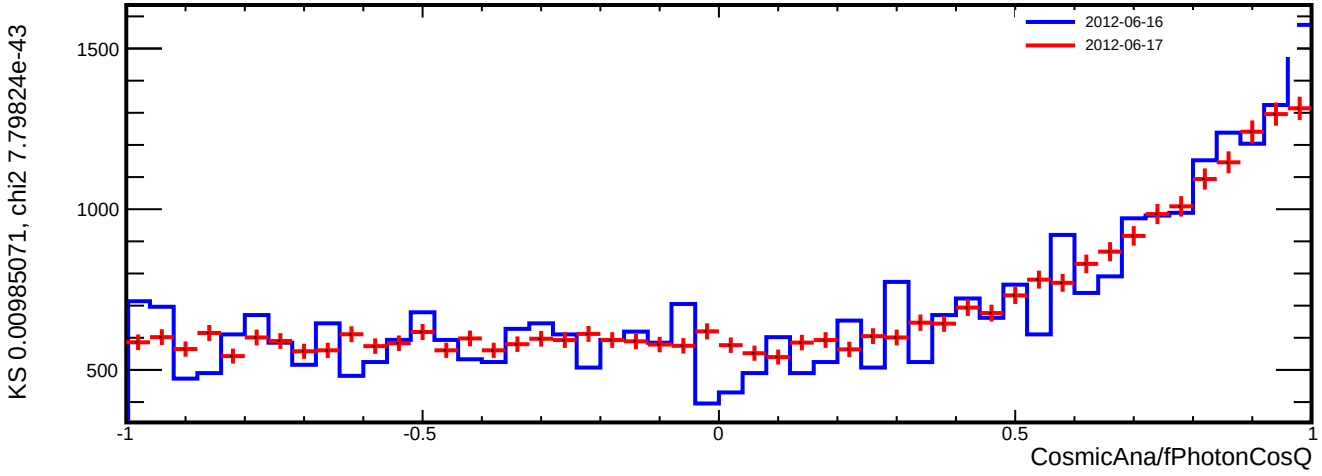

Distance of reconstructed vertex from actual vertex
KS 0.0164906, chi2 0.0382016
2012-06-16
2012-06-17
0
5
10
15
20
0
200
400
600
800
1000
vertexfit/fHistoDist

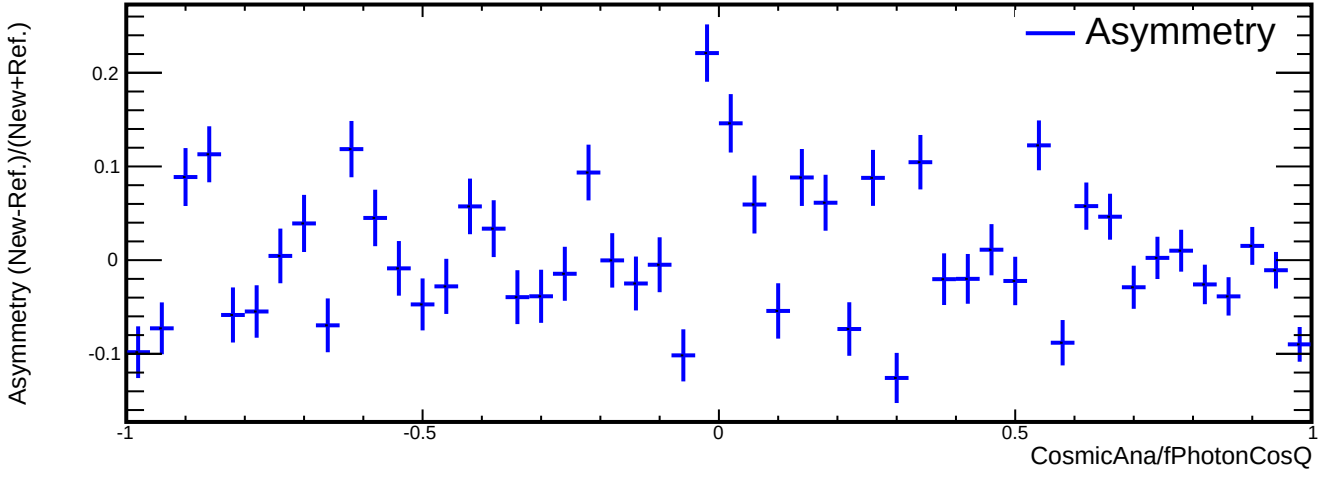

Distance of reconstructed vertex from actual vertex
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
200
400
600
800
1000
vertexfit/fHistoDist

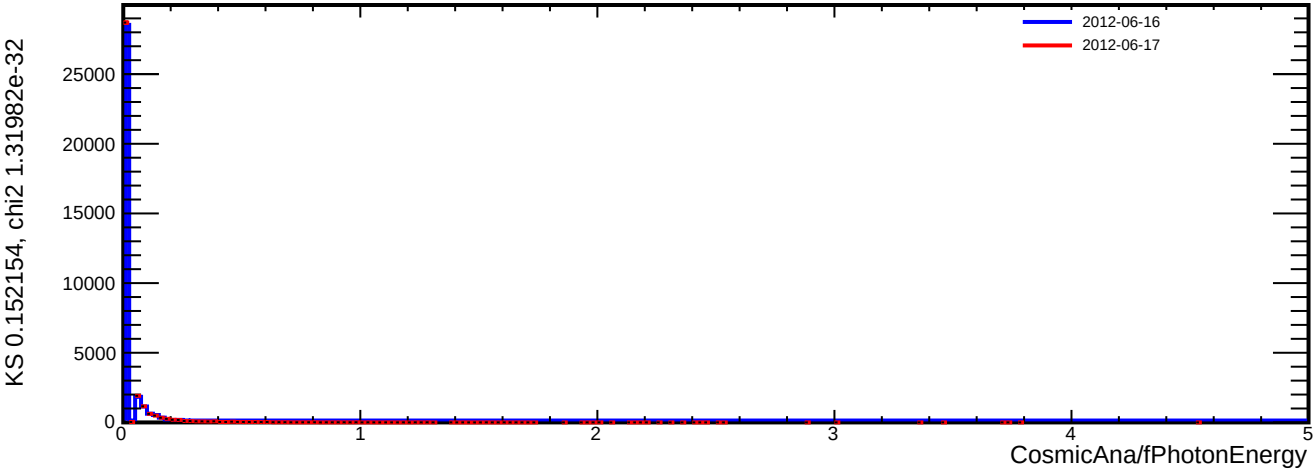

KS 0.37584, chi2 6.473e-08
2012-06-16
2012-06-17
0
500
1000
1500
0
5000
10000
15000
20000
CosmicAna/fNhitHisto

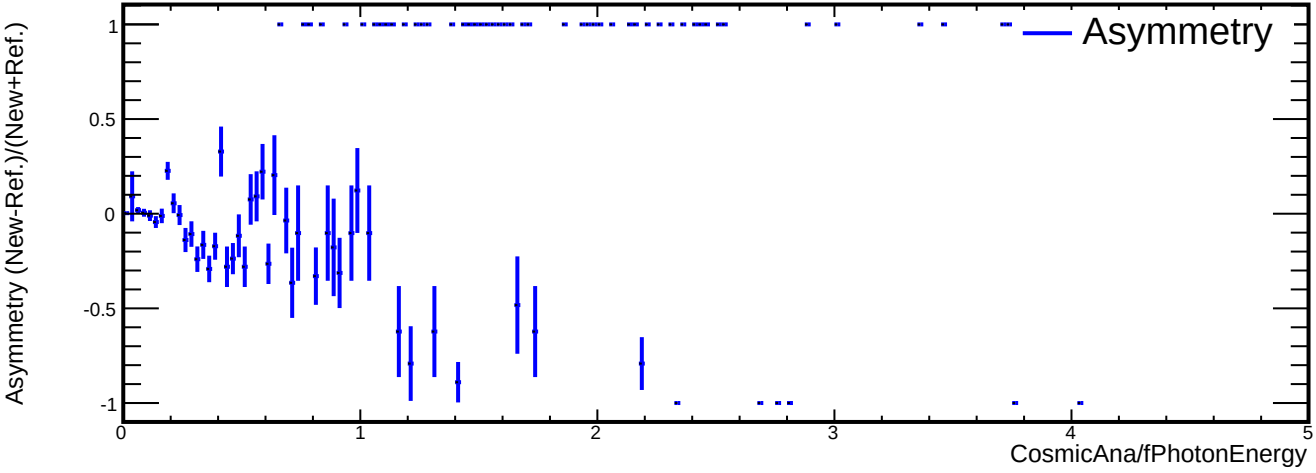

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
5000
10000
15000
20000
CosmicAna/fNhitHisto

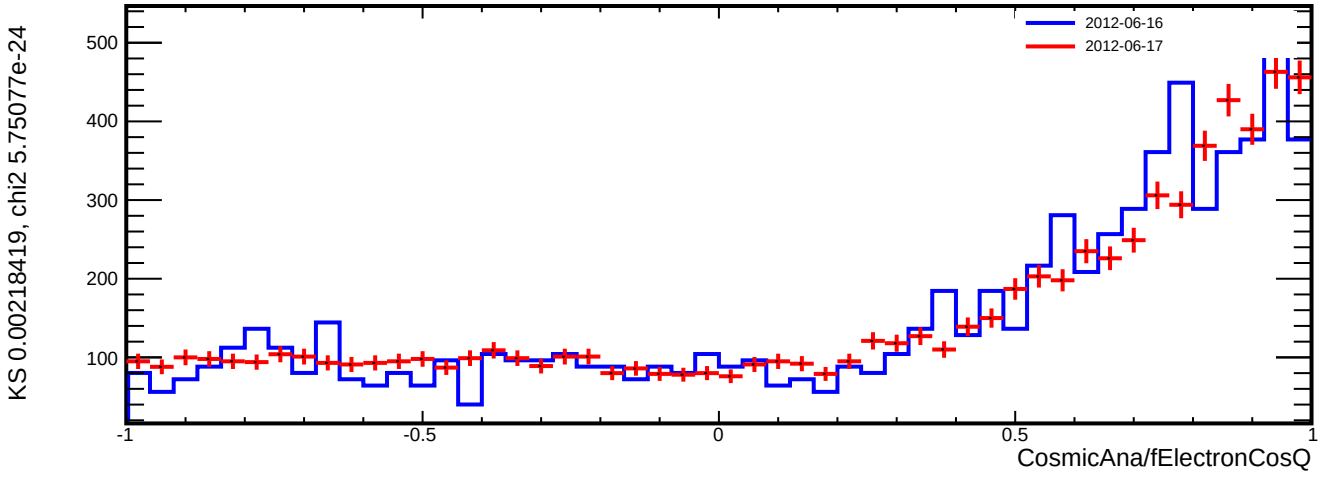

KS 0.0313752, chi2 1.93193e-43
×10^3
140
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto0
2012-06-16
2012-06-17
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
Asymmetry
CosmicAna/fDminHisto0

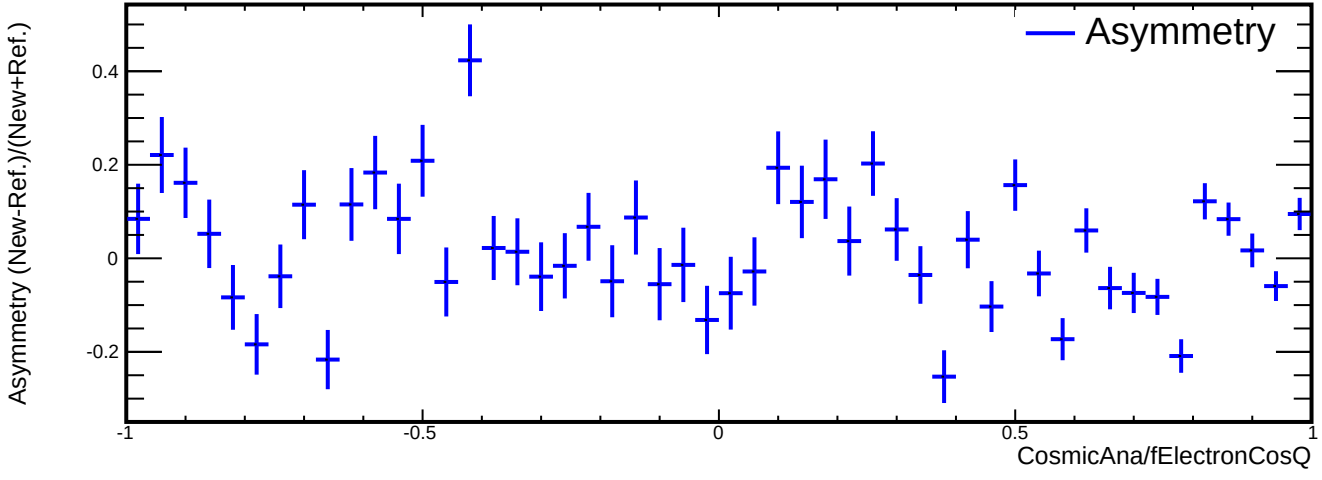

KS 0.00985071, chi2 7.79824e-43
1500
1000
500
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ
2012-06-16
2012-06-17

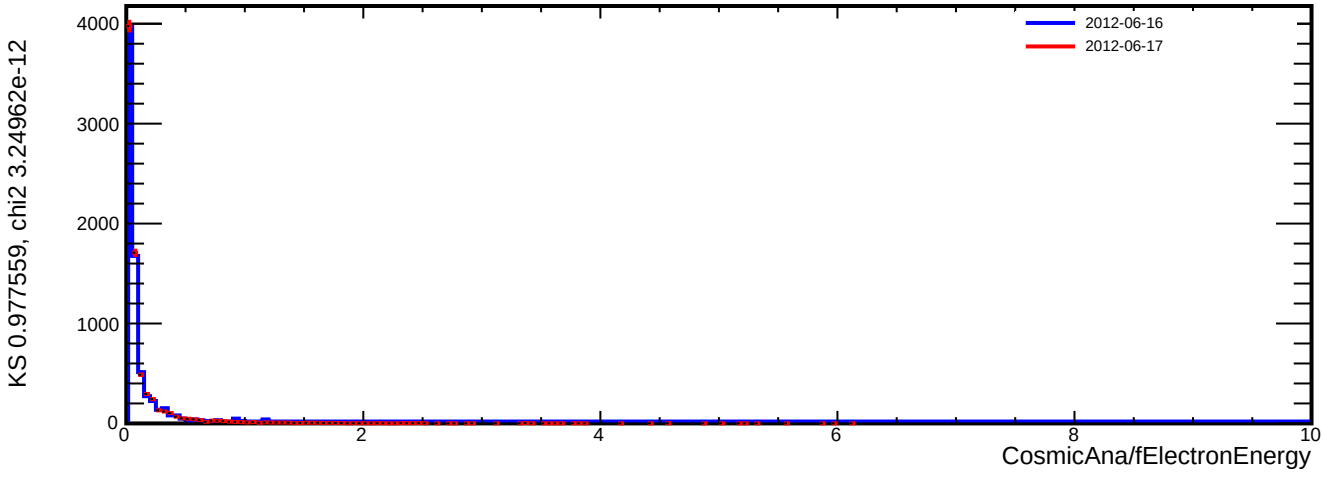

Asymmetry (New-Ref.)/(New+Ref.)
0.2
0.1
0
-0.1
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ
Asymmetry

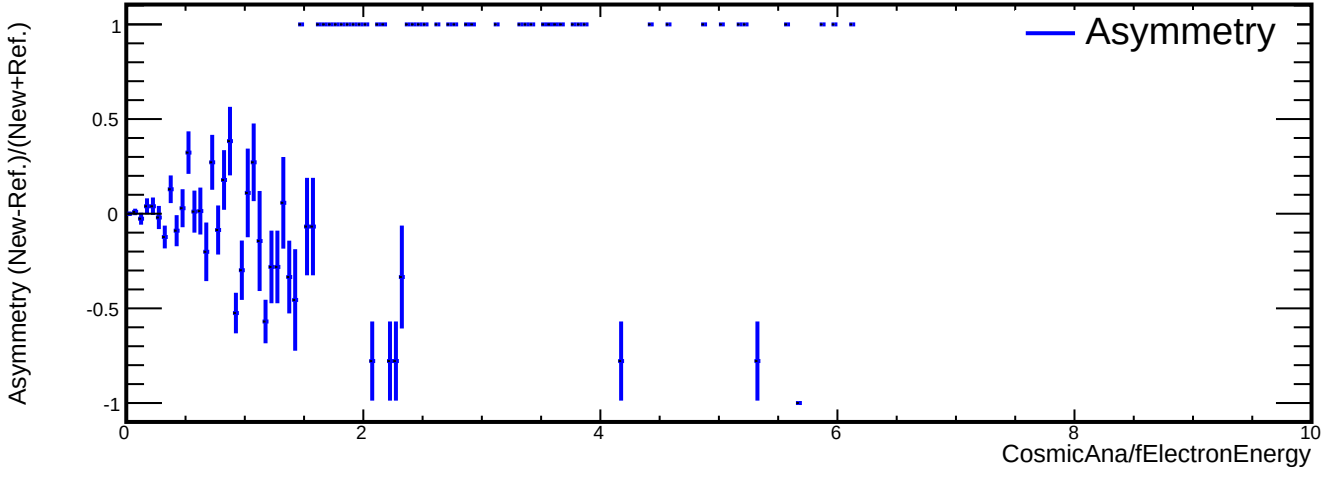

KS 0.152154, chi2 1.31982e-32
2012-06-16
2012-06-17
25000
20000
15000
10000
5000
0
0
1
2
3
4
5
CosmicAna/fPhotonEnergy

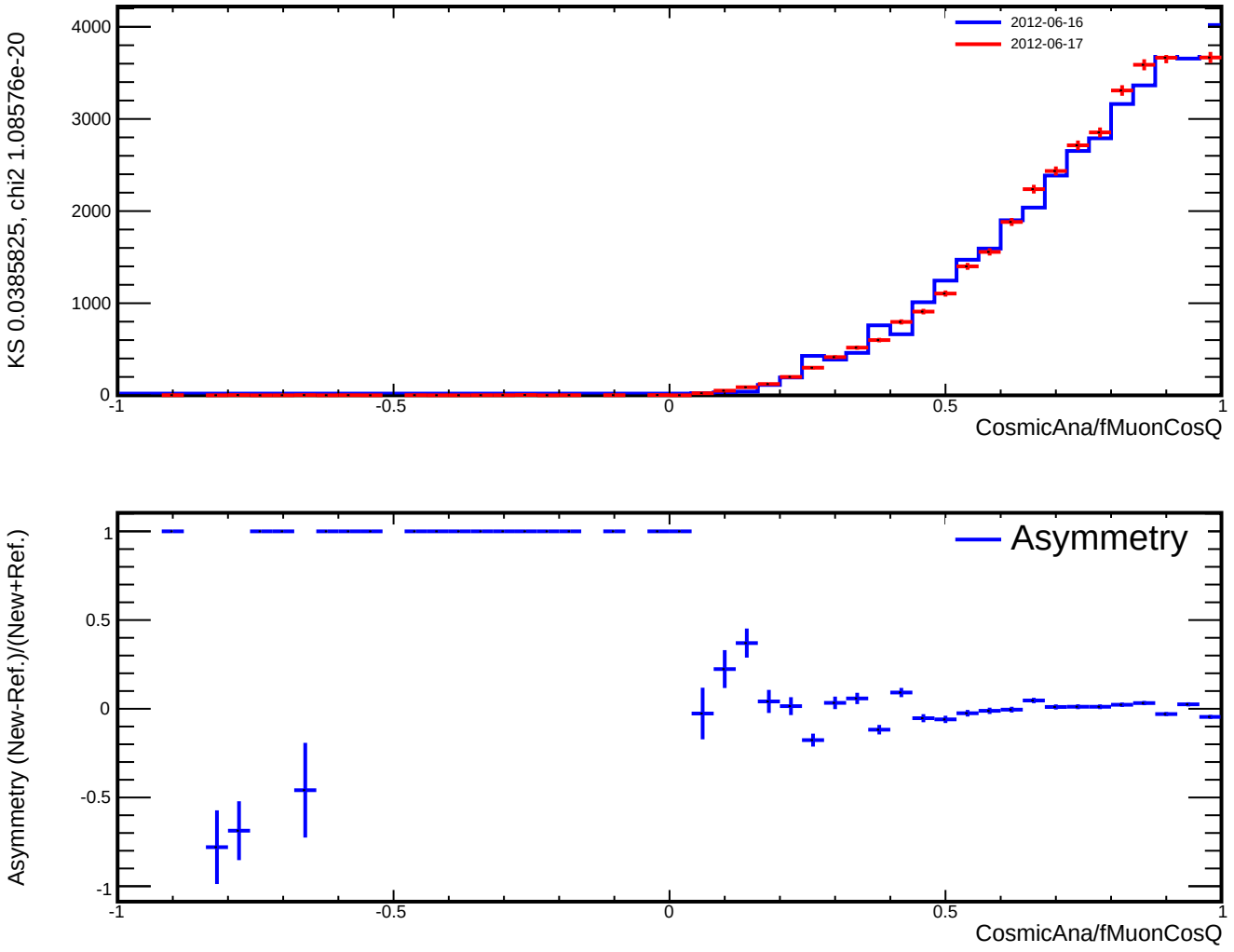

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
1
2
3
4
5
CosmicAna/fPhotonEnergy

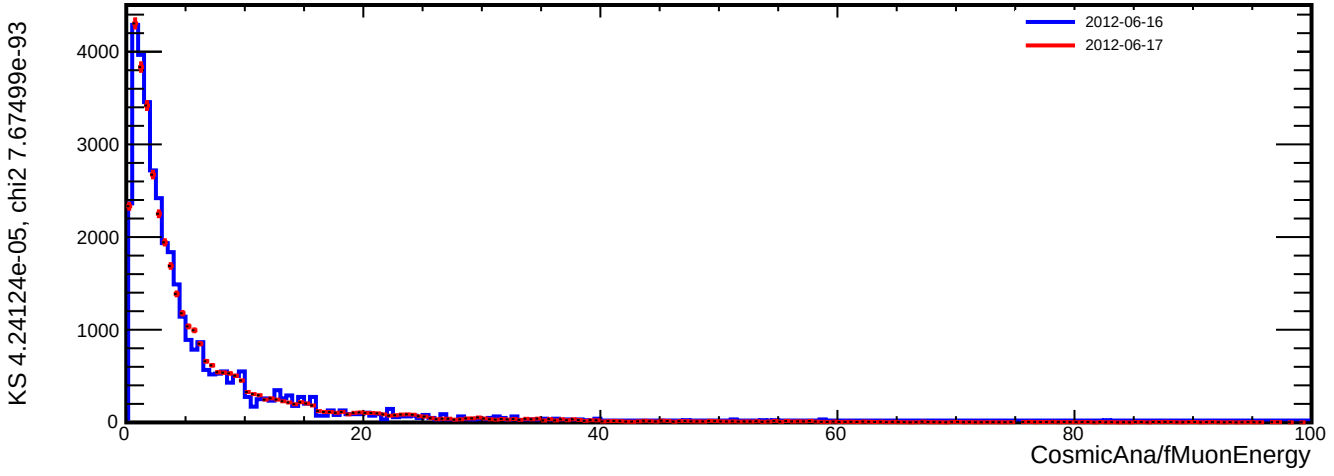

KS 0.00218419, chi2 5.75077e-24
2012-06-16
2012-06-17
500
400
300
200
100
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ

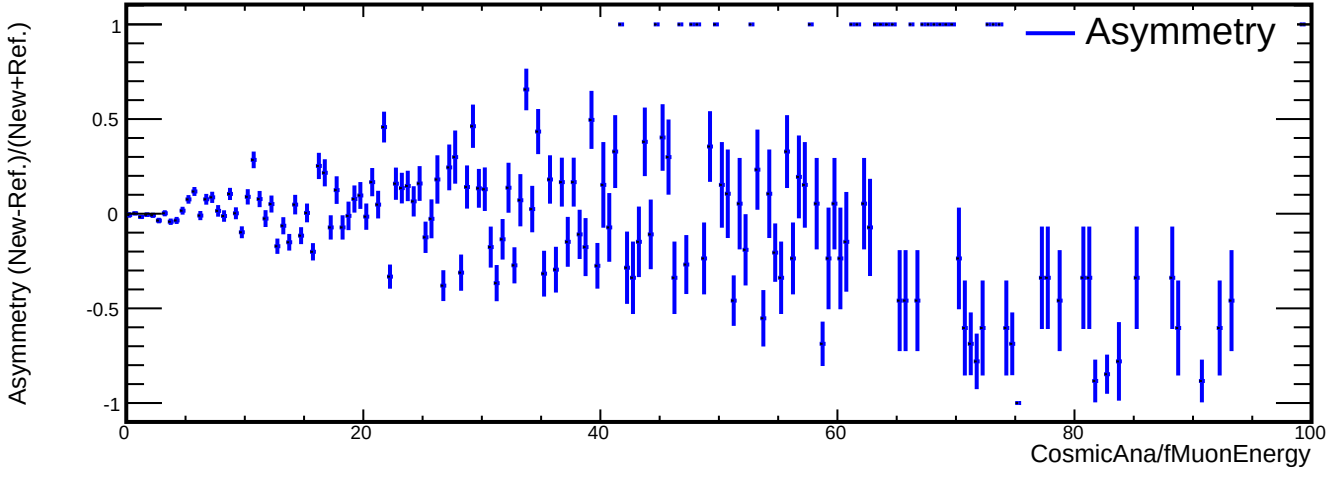

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.4
0.2
0
-0.2
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ

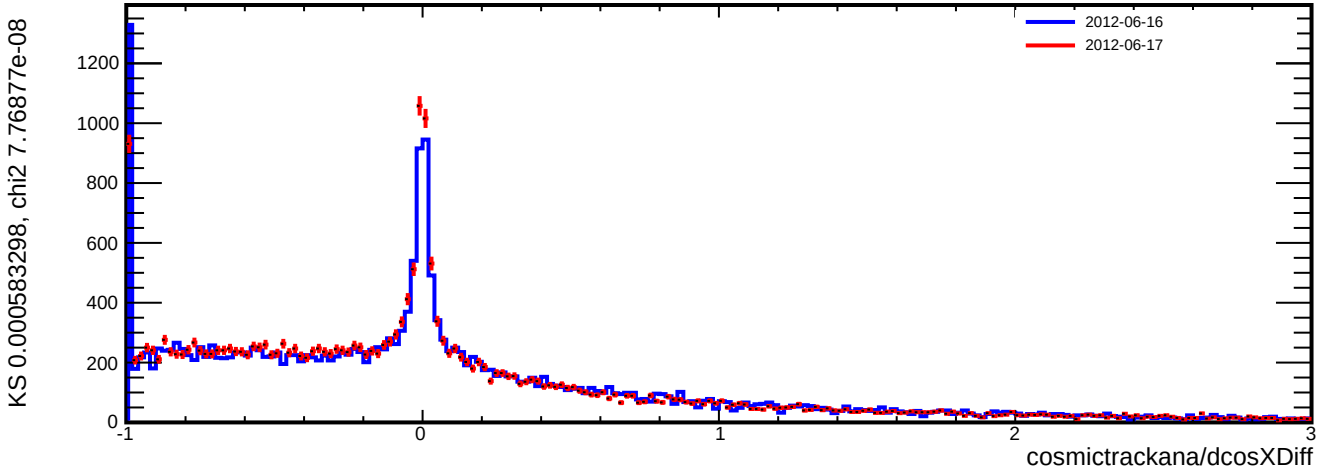

KS 0.977559, chi2 3.24962e-12
4000
3000
2000
1000
0
0
2
4
6
8
10
CosmicAna/fElectronEnergy
2012-06-16
2012-06-17

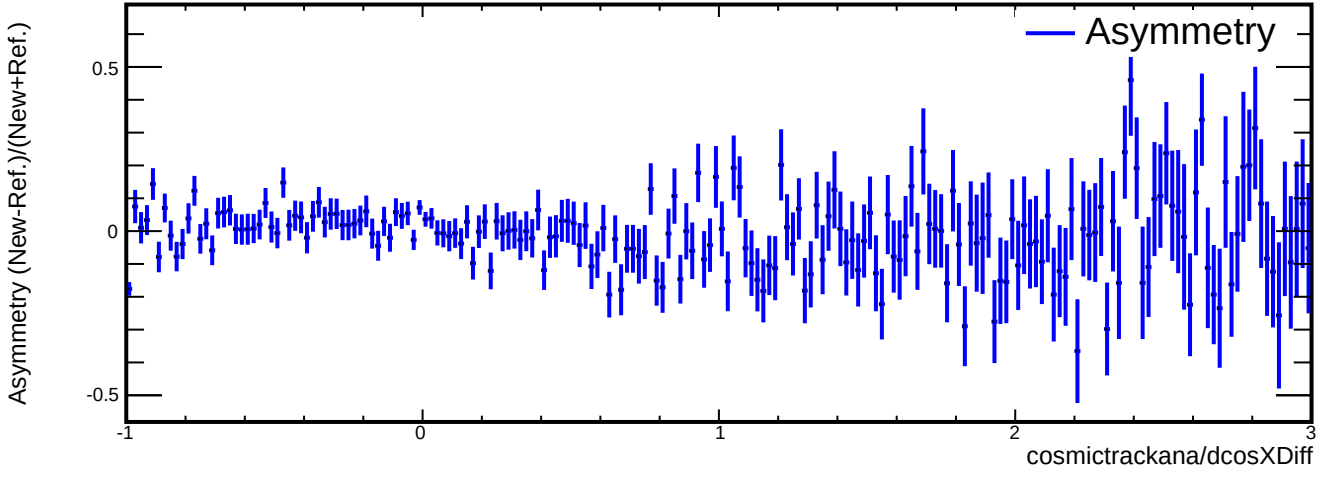

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
2
4
6
8
10
CosmicAna/fElectronEnergy
Asymmetry

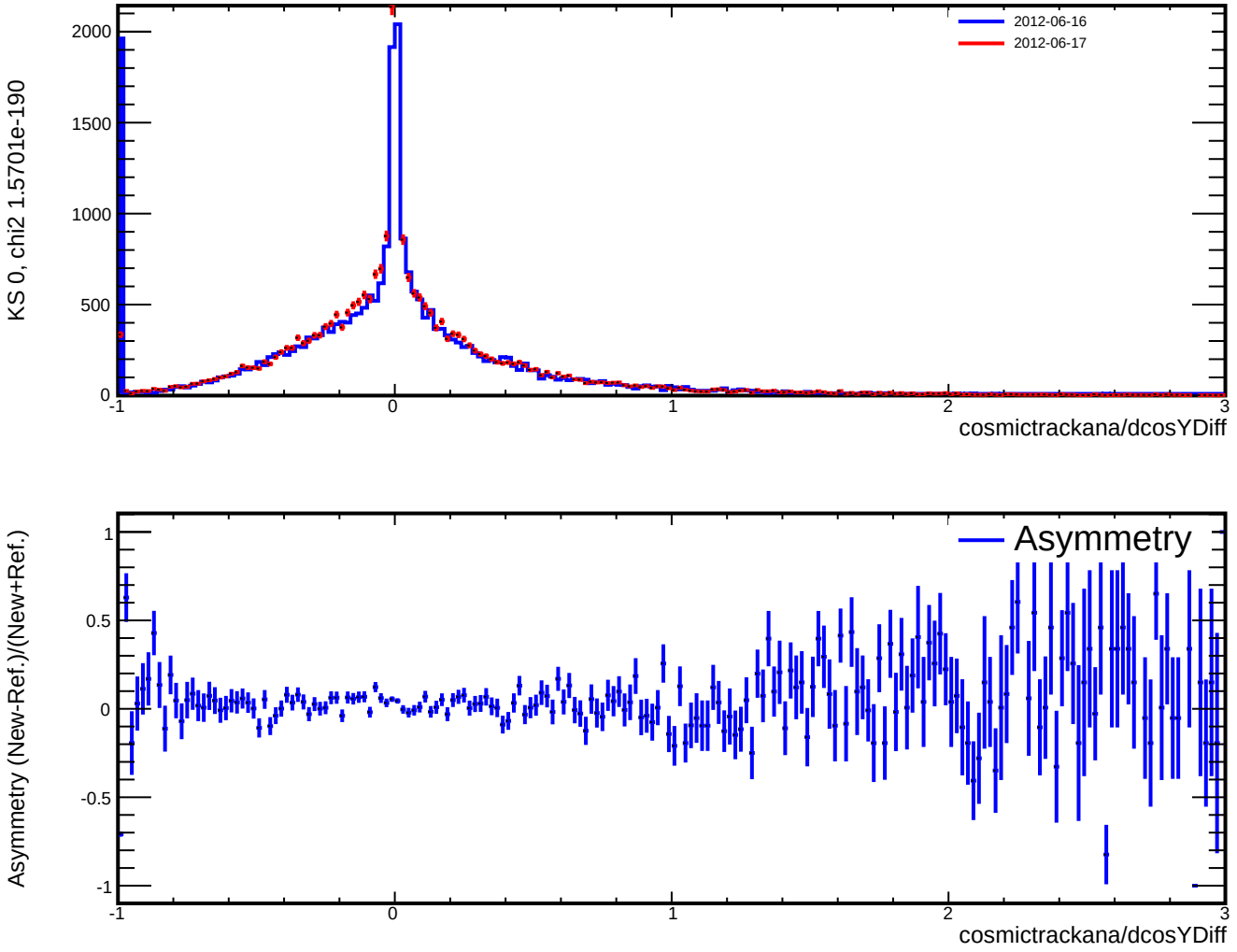

KS 0.0385825, chi2 1.08576e-20
2012-06-16
2012-06-17
CosmicAna/fMuonCosQ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
CosmicAna/fMuonCosQ

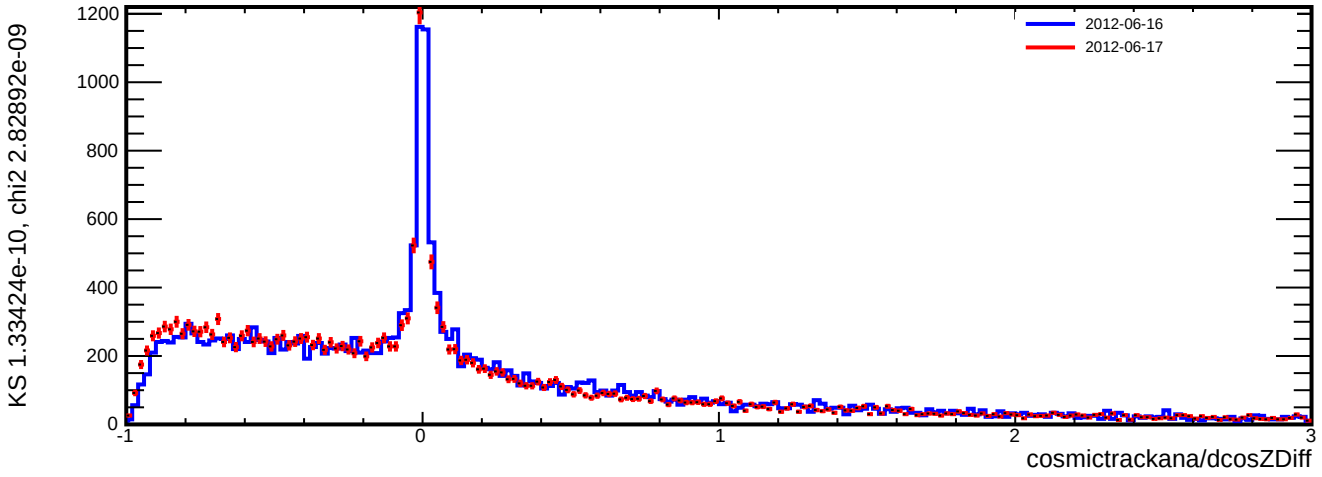

KS 4.24124e-05, chi2 7.67499e-93
2012-06-16
2012-06-17
4000
3000
2000
1000
0
0
20
40
60
80
100
CosmicAna/fMuonEnergy

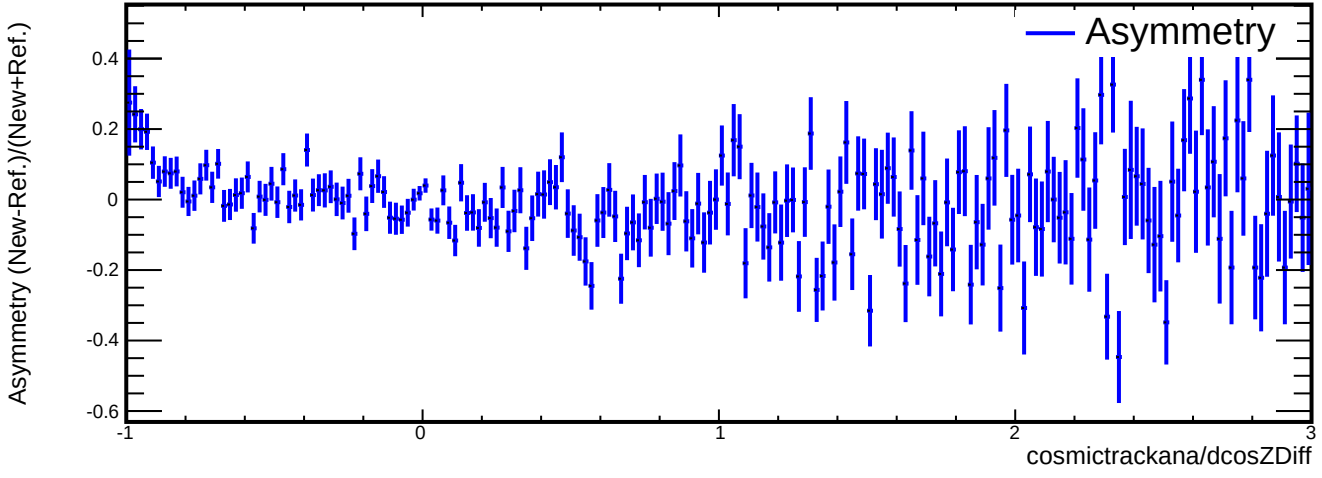

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
20
40
60
80
100
CosmicAna/fMuonEnergy

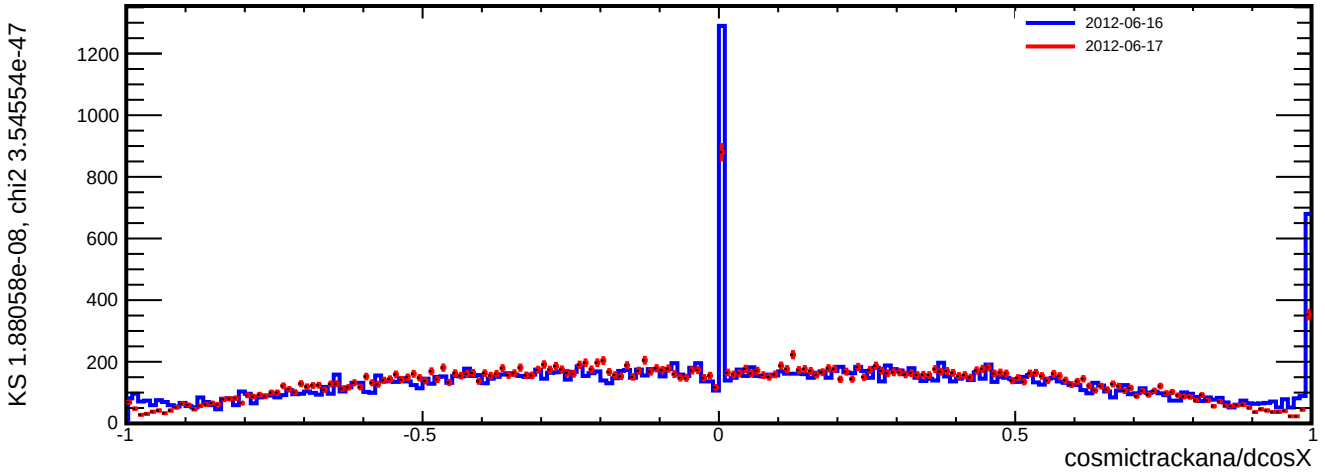

KS 0.000583298, chi2 7.76877e-08
2012-06-16
2012-06-17
1200
1000
800
600
400
200
0
-1
0
1
2
3
cosmictrackana/dcosXDiff

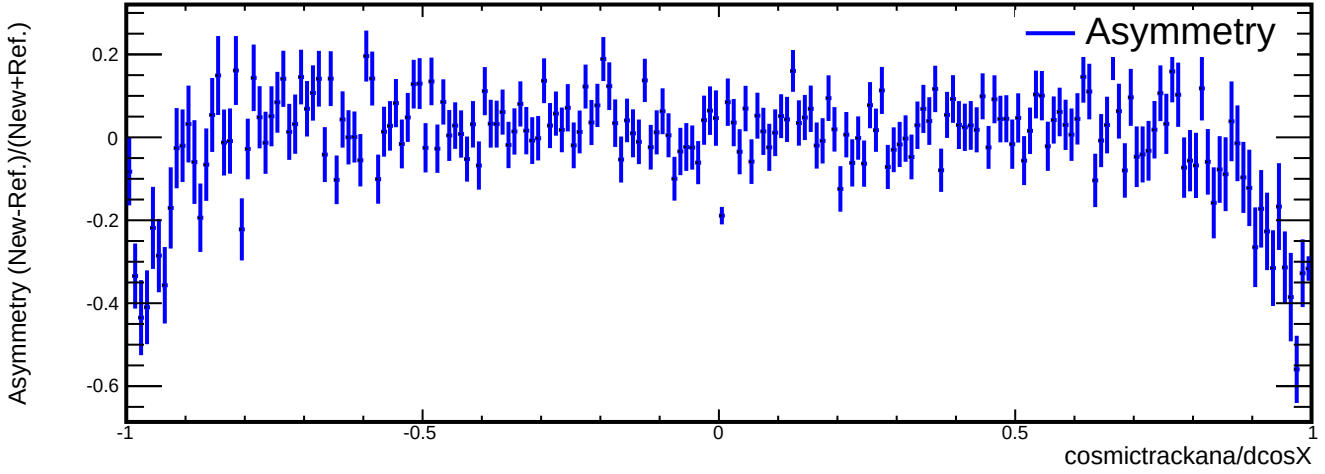

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
-1
0
1
2
3
cosmictrackana/dcosXDiff

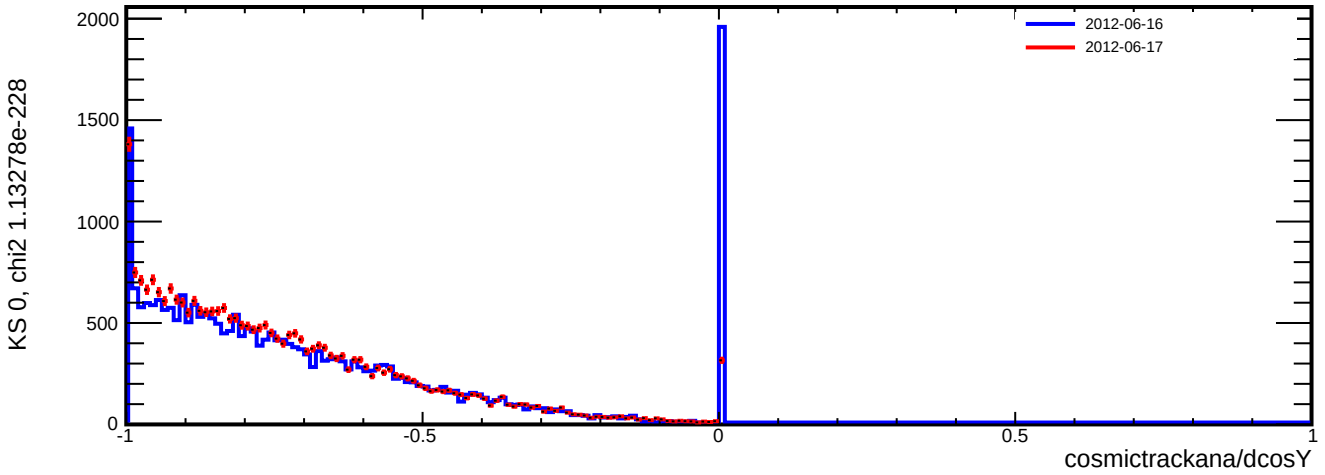

KS 0, chi2 1.5701e-190
2012-06-16
2012-06-17
cosmictrackana/dcosYDiff
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/dcosYDiff

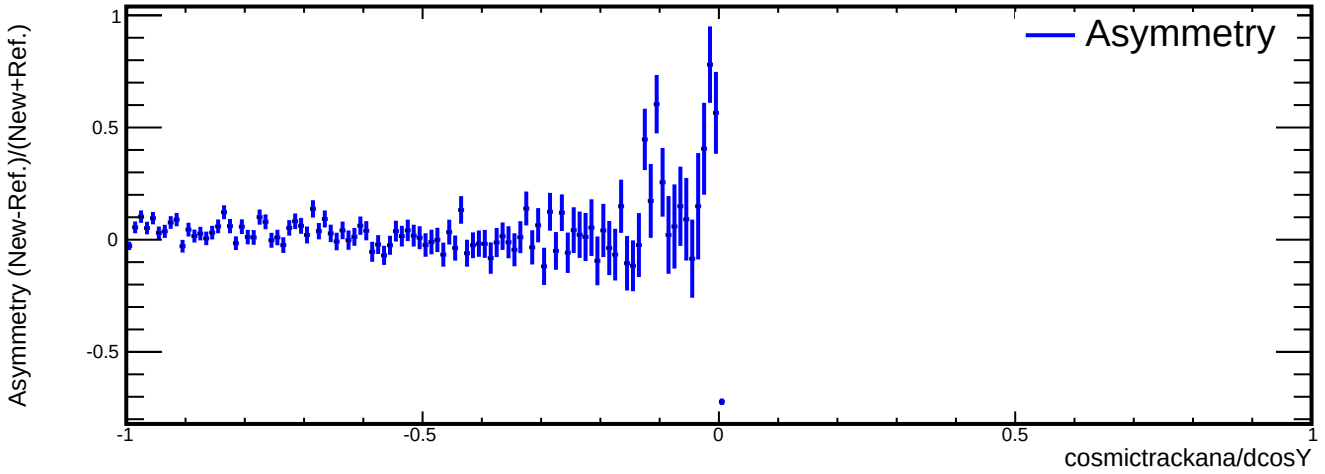

KS 1.33424e-10, chi2 2.82892e-09
2012-06-16
2012-06-17
cosmictrackana/dcosZDiff

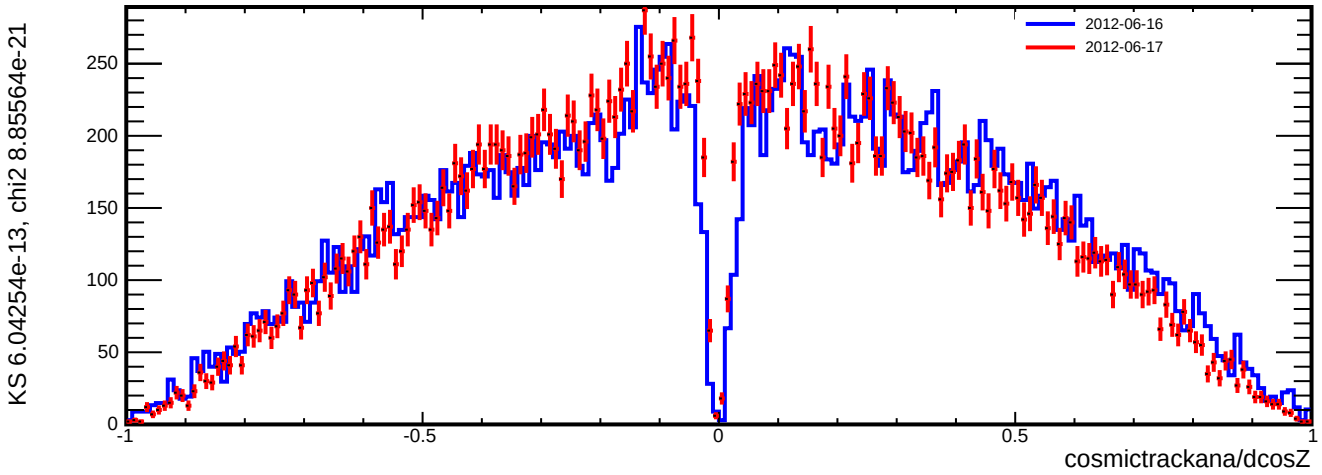

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/dcosZDiff

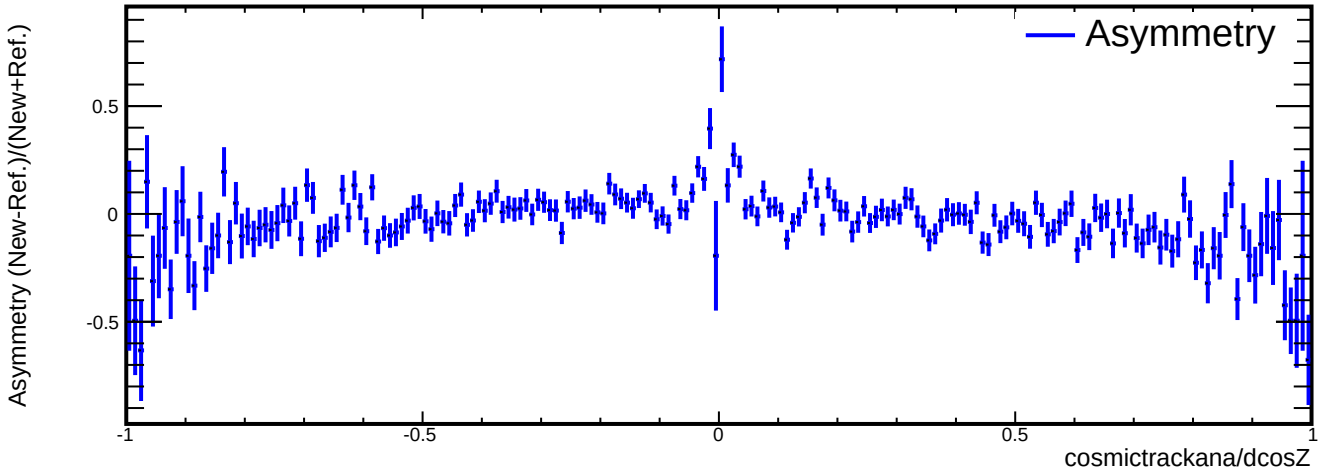

KS 1.88058e-08, chi2 3.54554e-47
2012-06-16
2012-06-17
1200
1000
800
600
400
200
0
-1
-0.5
0
0.5
1
cosmictrackana/dcosX

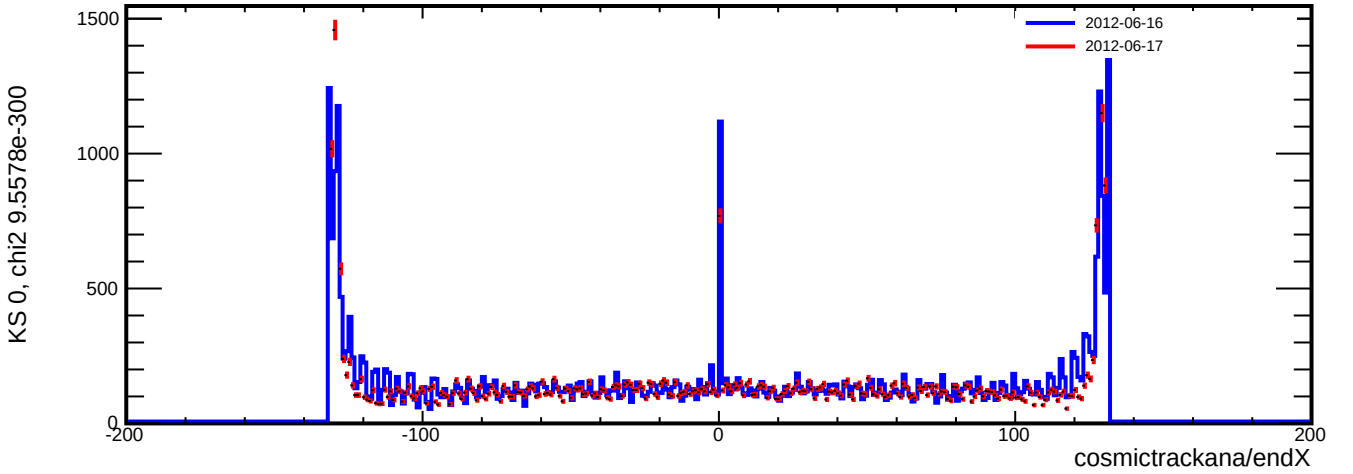

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0
-0.2
-0.4
-0.6
-1
-0.5
0
0.5
1
cosmictrackana/dcosX

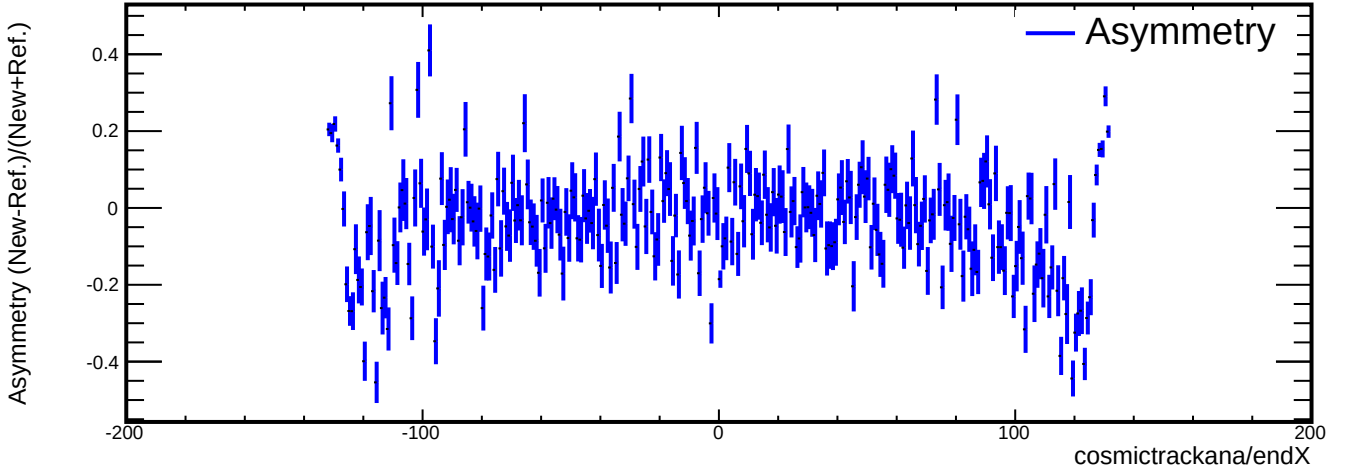

KS 0, chi2 1.13278e-228
2012-06-16
2012-06-17
2000
1500
1000
500
0
-1
-0.5
0
0.5
1
cosmictrackana/dcosY

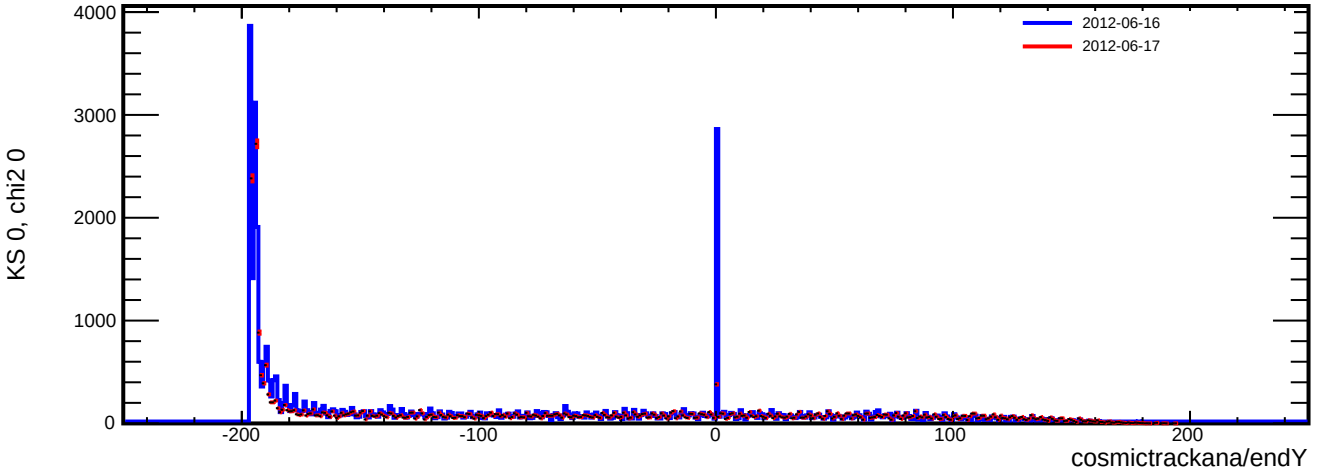

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-0.5
0
0.5
1
cosmictrackana/dcosY

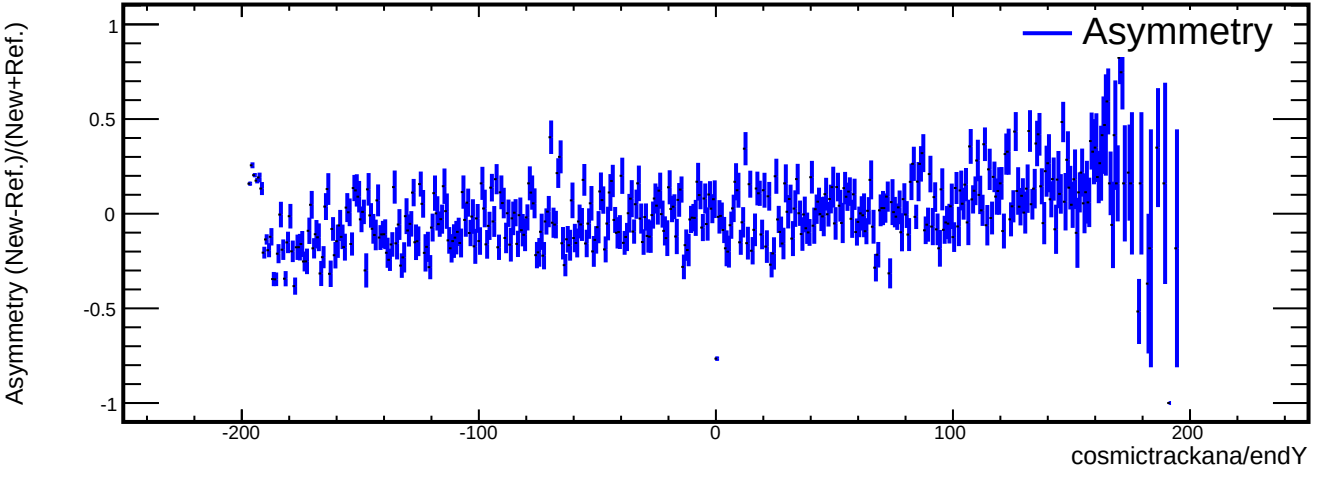

KS 6.04254e-13, chi2 8.85564e-21
2012-06-16
2012-06-17
250
200
150
100
50
0
-1
-0.5
0
0.5
1
cosmictrackana/dcosZ

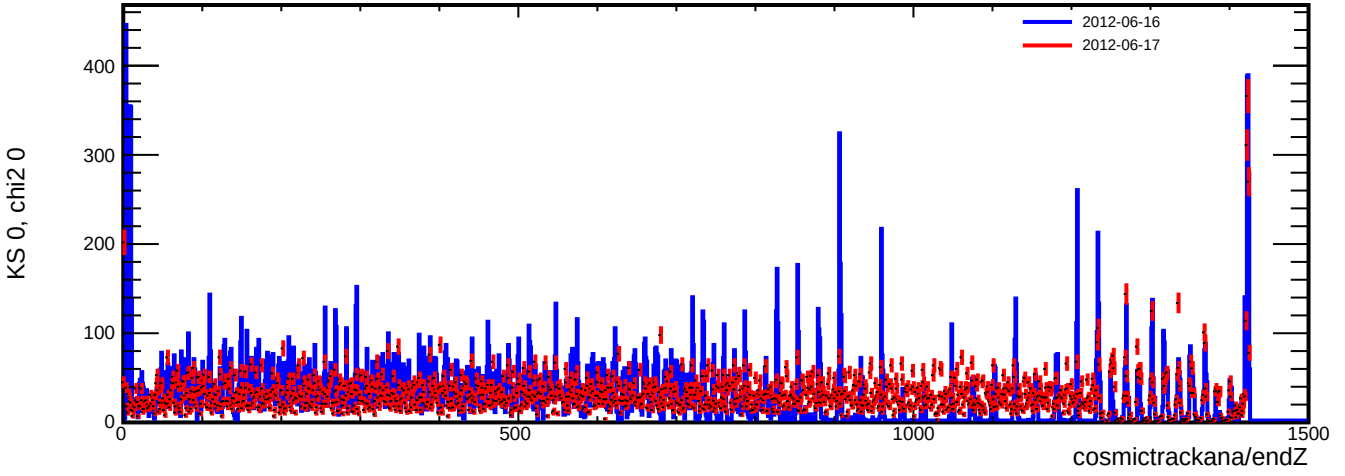

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
-1
-0.5
0
0.5
1
cosmictrackana/dcosZ

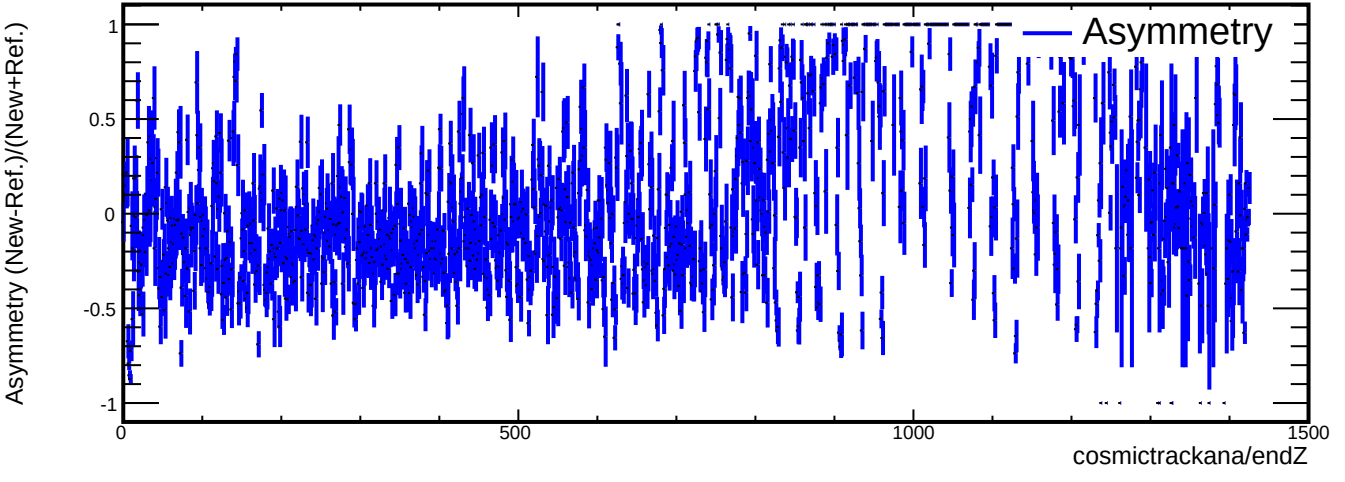

KS 0, chi2 9.5578e-300
1500
1000
500
0
-200
-100
0
100
200
cosmictrackana/endX
2012-06-16
2012-06-17

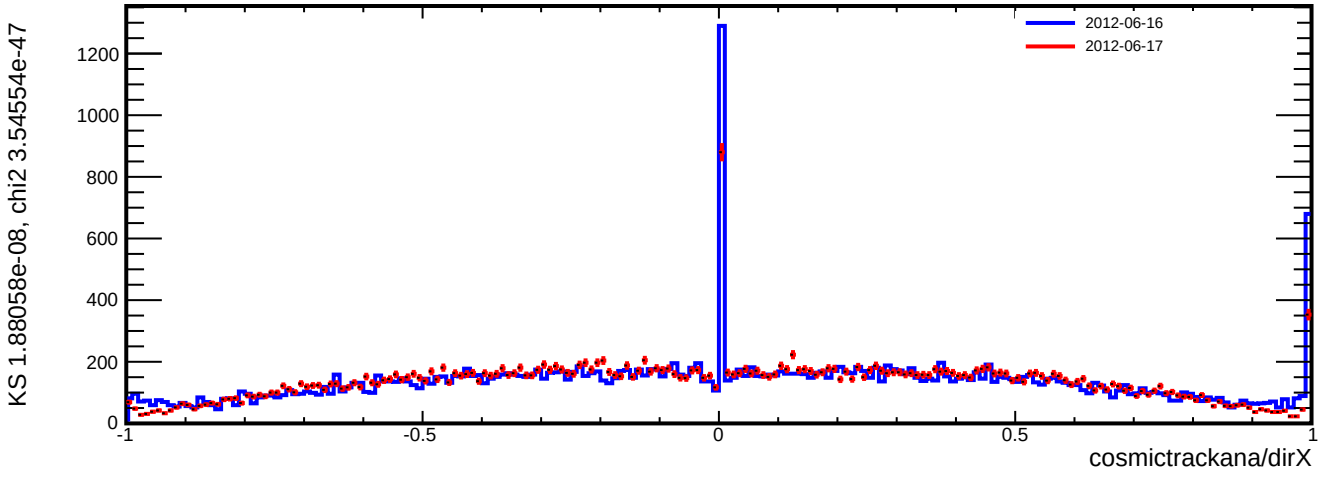

Asymmetry (New-Ref.)/(New+Ref.)
0.4
0.2
0
-0.2
-0.4
-200
-100
0
100
200
cosmictrackana/endX
Asymmetry

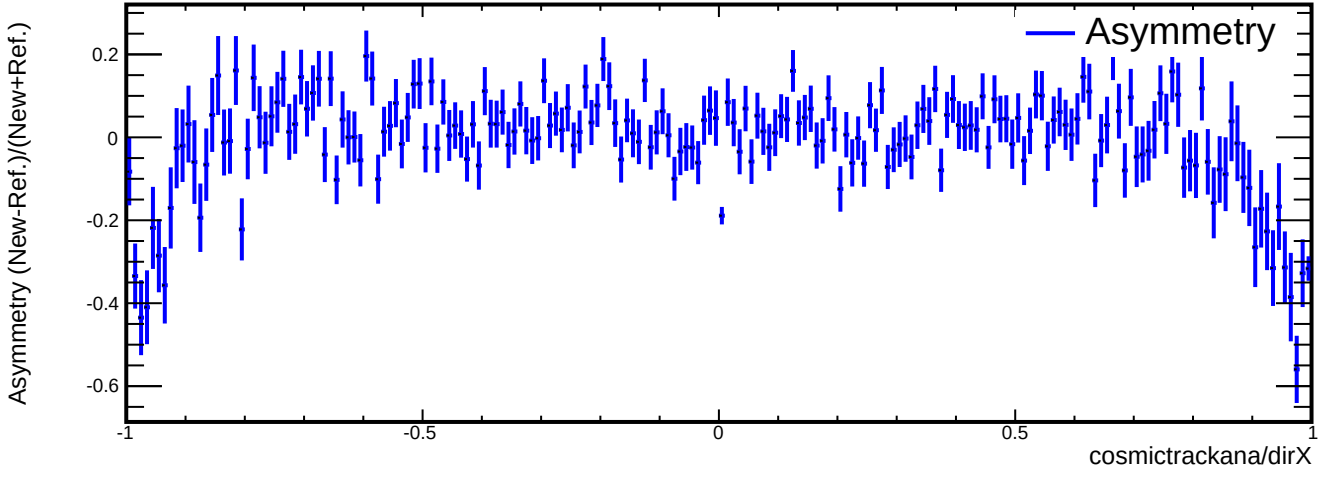

KS 0, chi2 0
4000
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/endY
2012-06-16
2012-06-17

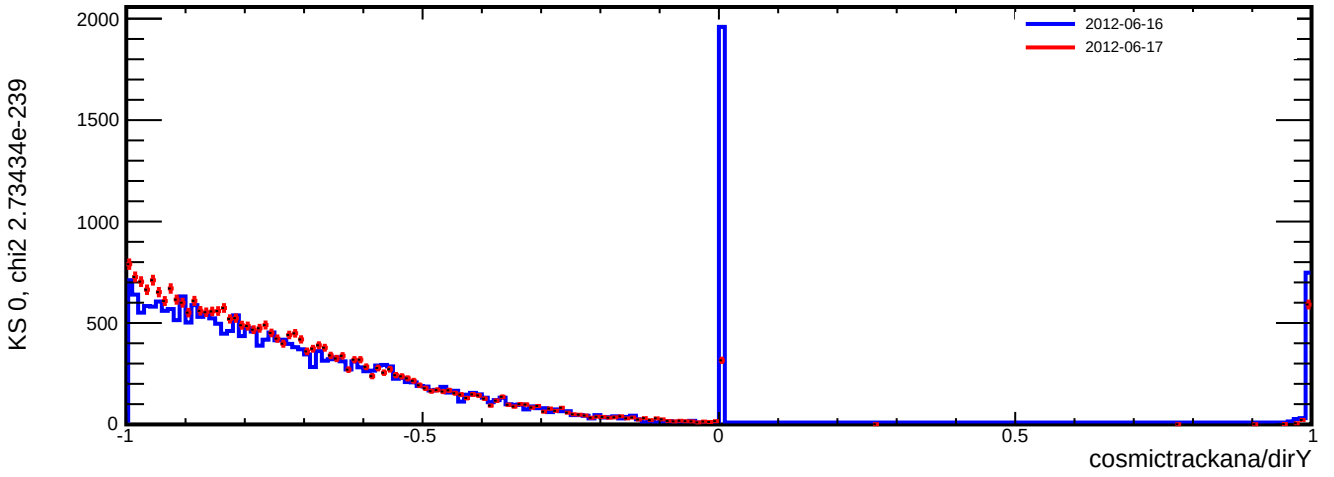

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/endY
Asymmetry

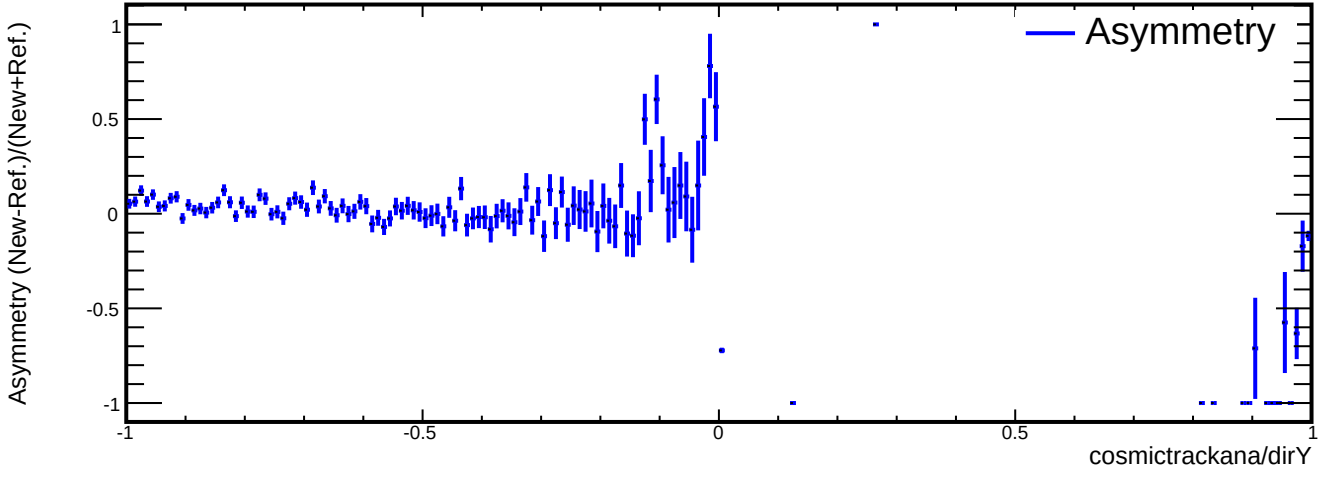

2012-06-16
2012-06-17
KS 0, chi2 0
400
300
200
100
0
0
500
1000
1500
cosmictrackana/endZ

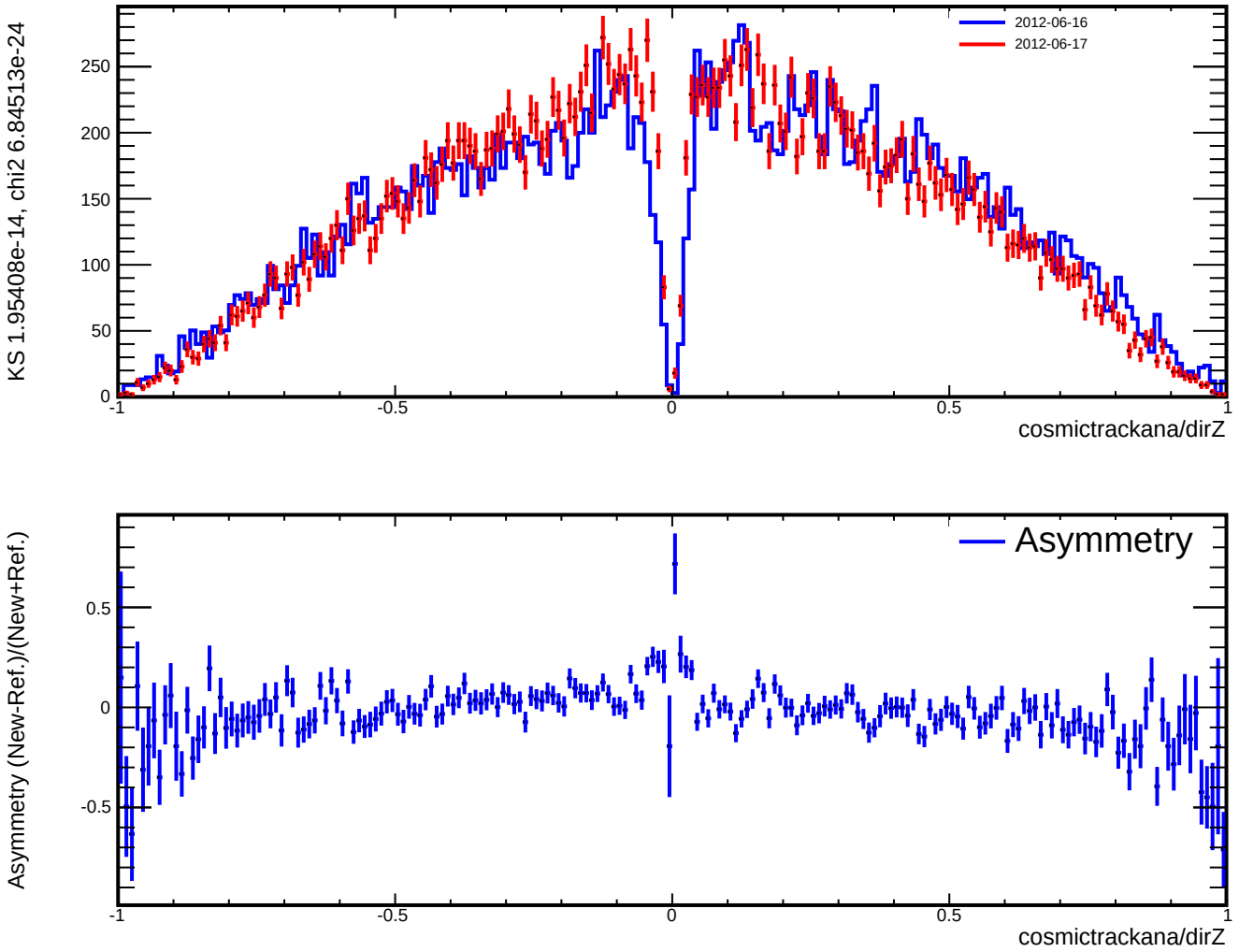

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/endZ

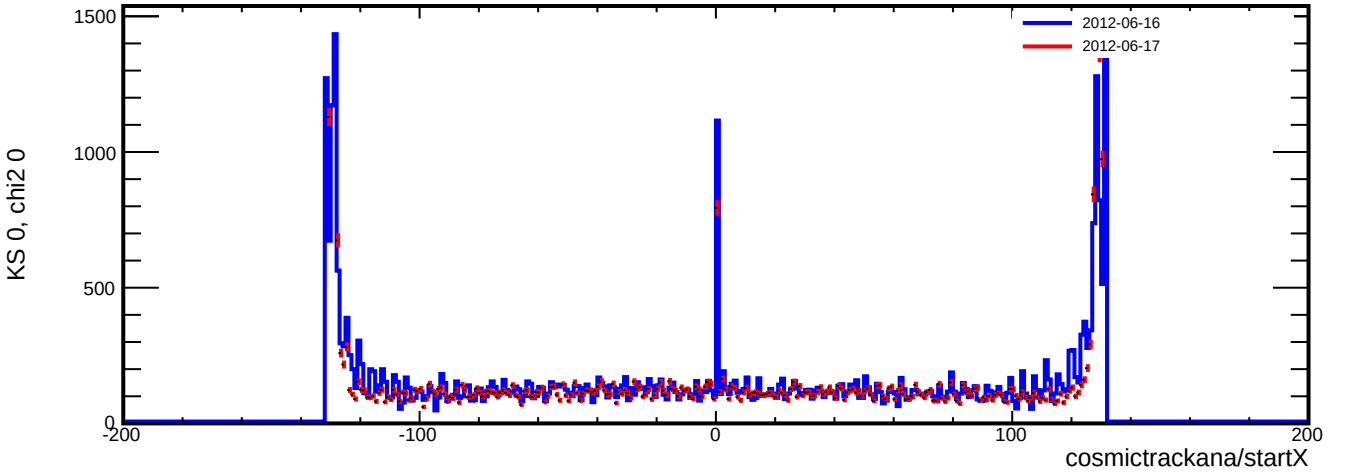

KS 1.88058e-08, chi2 3.54554e-47
2012-06-16
2012-06-17
1200
1000
800
600
400
200
0
-1
-0.5
0
0.5
1
cosmictrackana/dirX

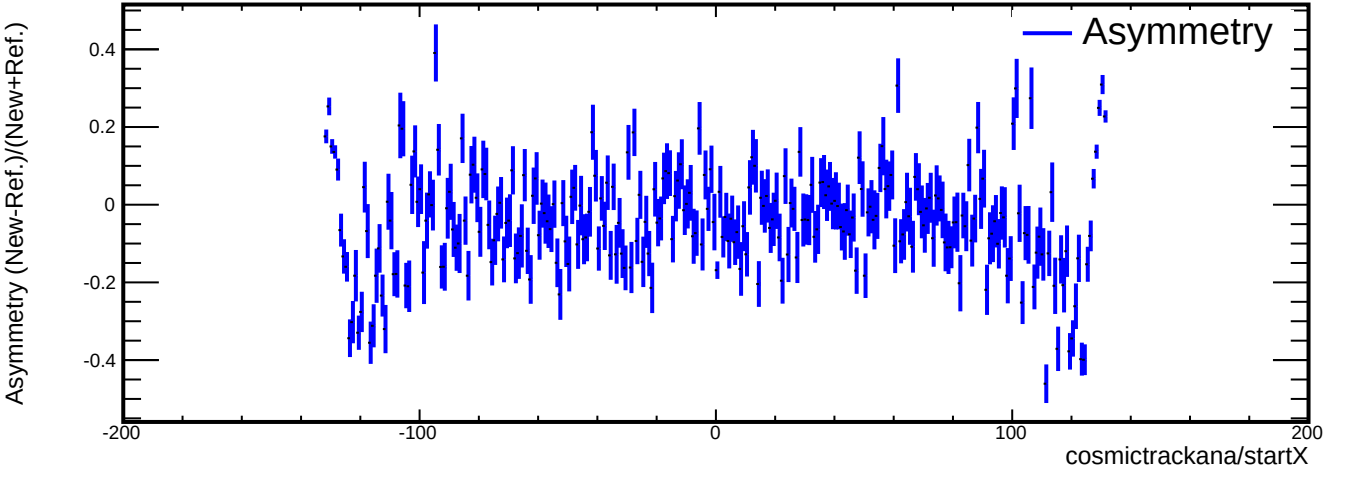

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0
-0.2
-0.4
-0.6
-1
-0.5
0
0.5
1
cosmictrackana/dirX

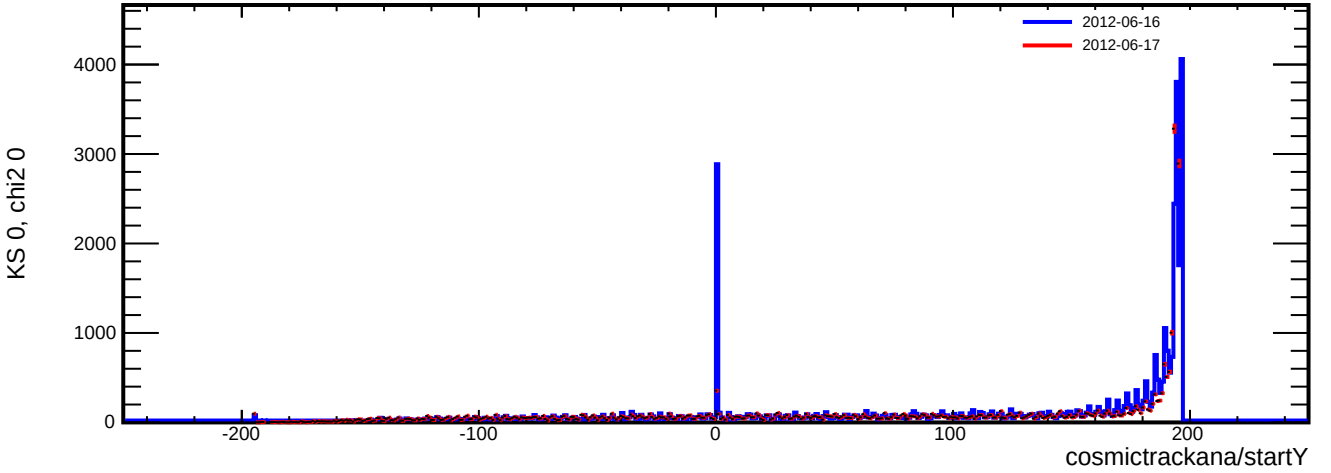

KS 0, chi2 2.73434e-239
2012-06-16
2012-06-17
cosmictrackana/dirY

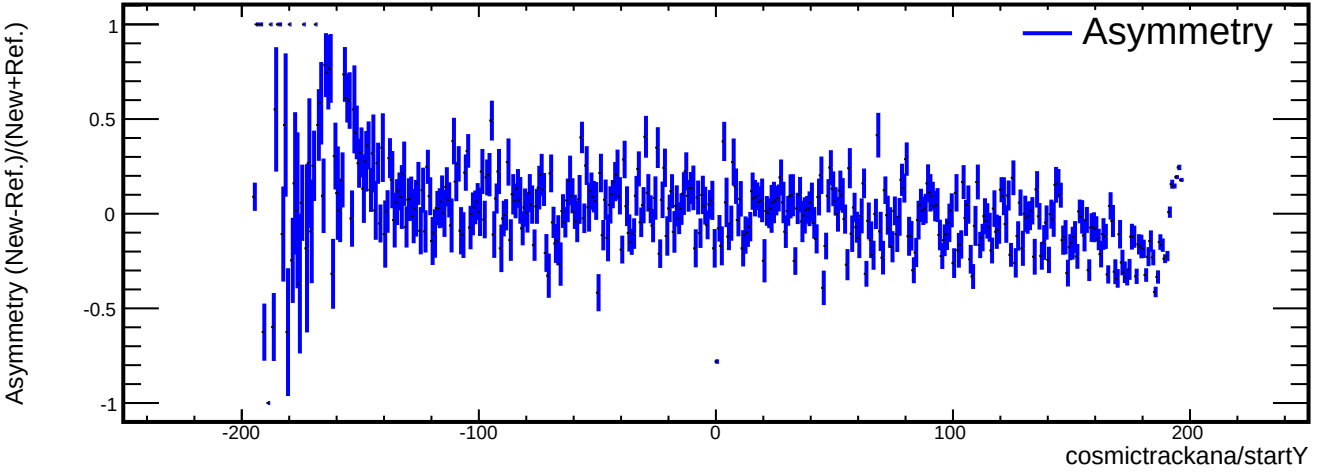

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/dirY

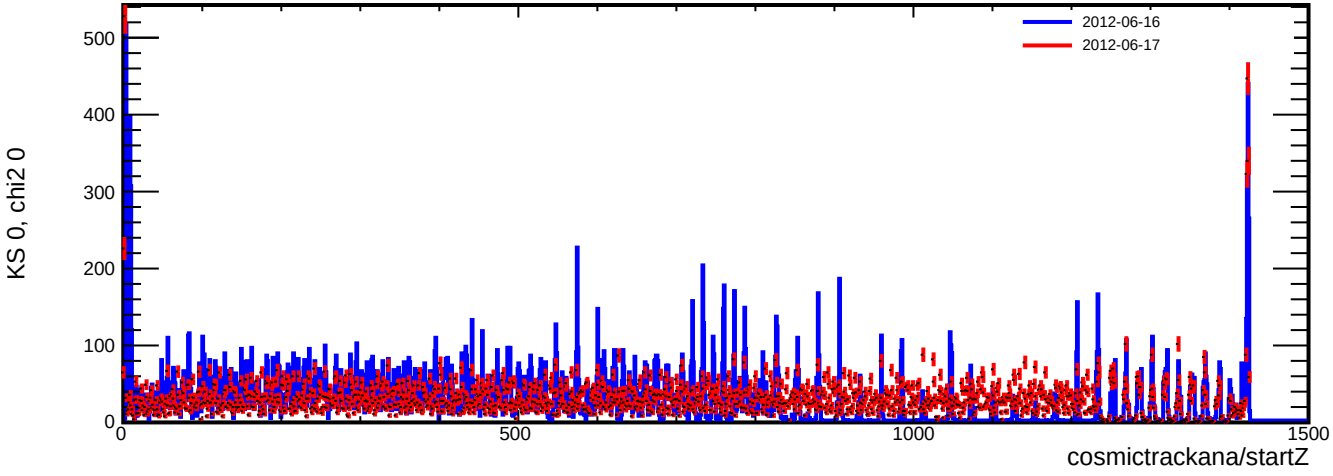

KS 1.95408e-14, chi2 6.84513e-24
2012-06-16
2012-06-17
cosmictrackana/dirZ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/dirZ

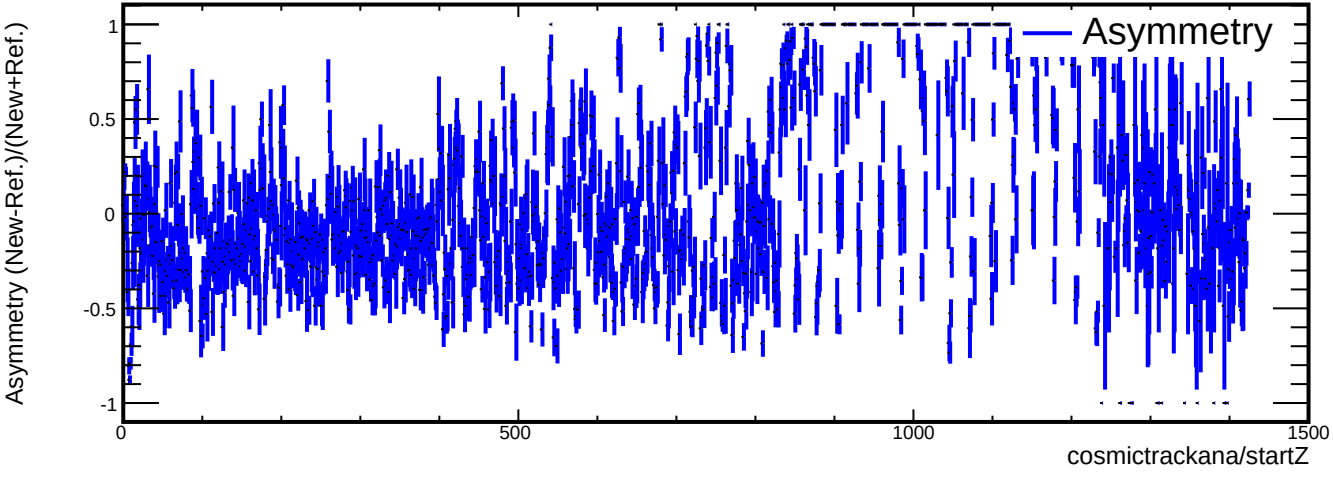

2012-06-16
2012-06-17
KS 0, chi2 0
1500
1000
500
0
-200
-100
0
100
200
cosmictrackana/startX

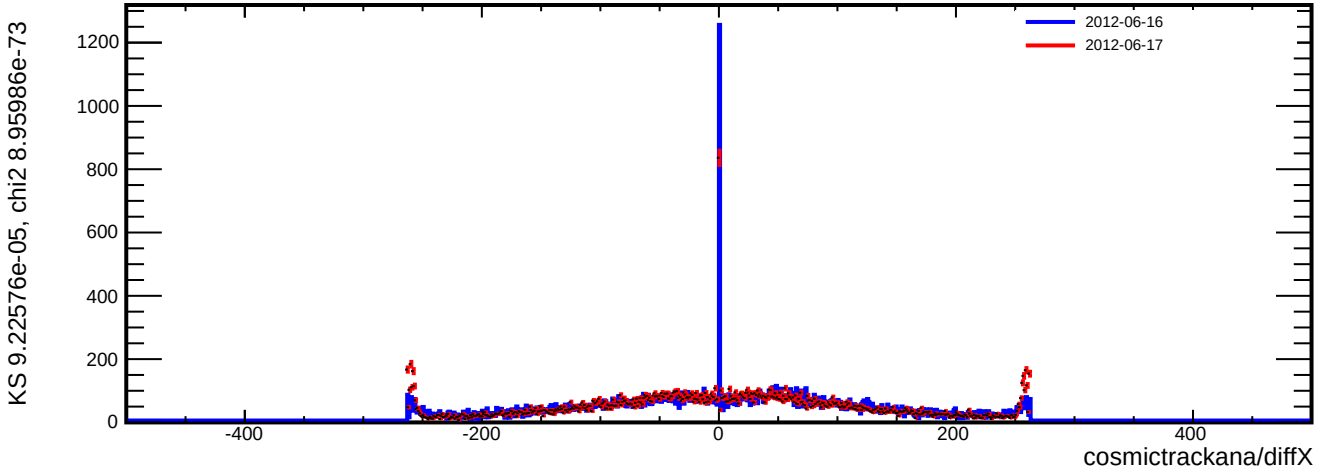

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0.4
0.2
0
-0.2
-0.4
-200
-100
0
100
200
cosmictrackana/startX

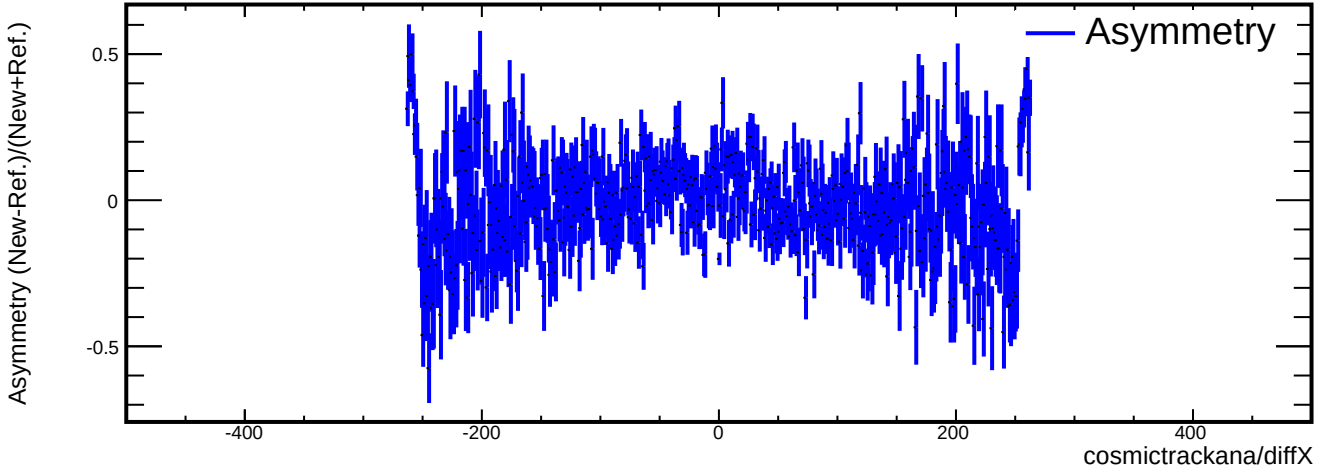

2012-06-16
2012-06-17
KS 0, chi2 0
4000
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/startY

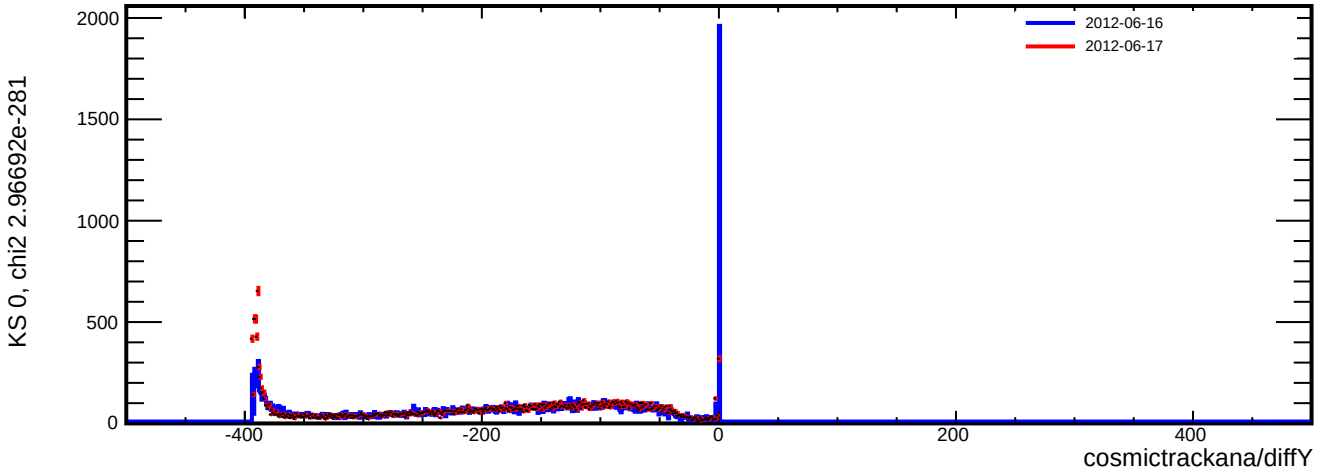

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/startY

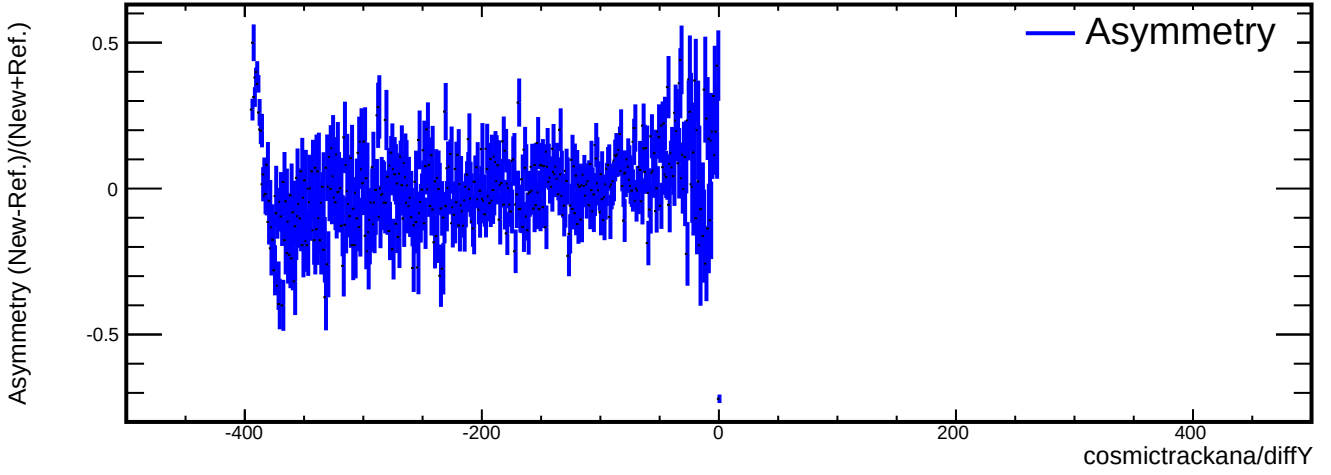

2012-06-16
2012-06-17
KS 0, chi2 0
0
100
200
300
400
500
0
500
1000
1500
cosmictrackana/startZ

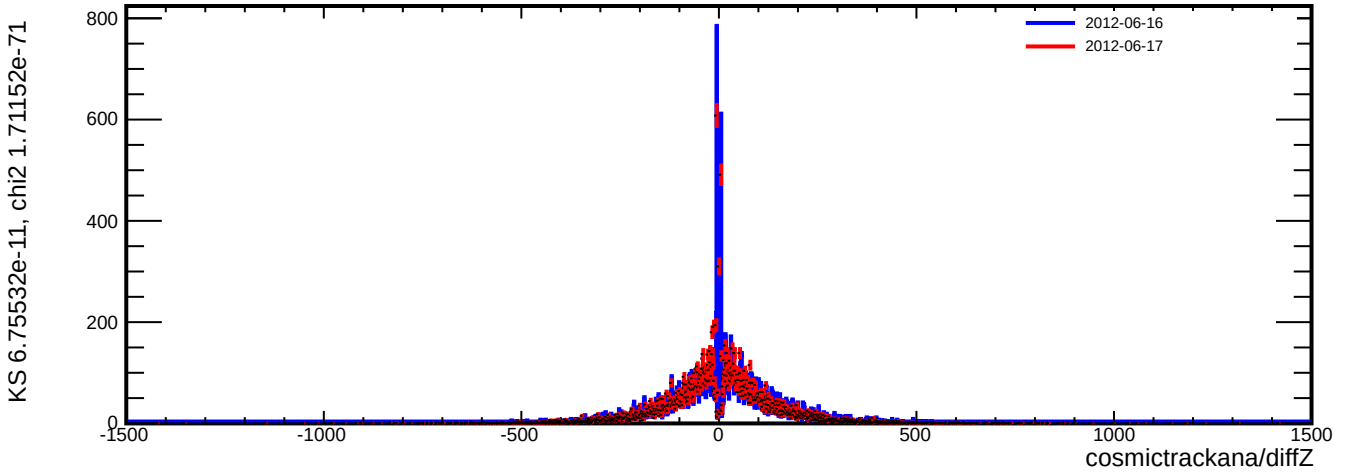

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/startZ

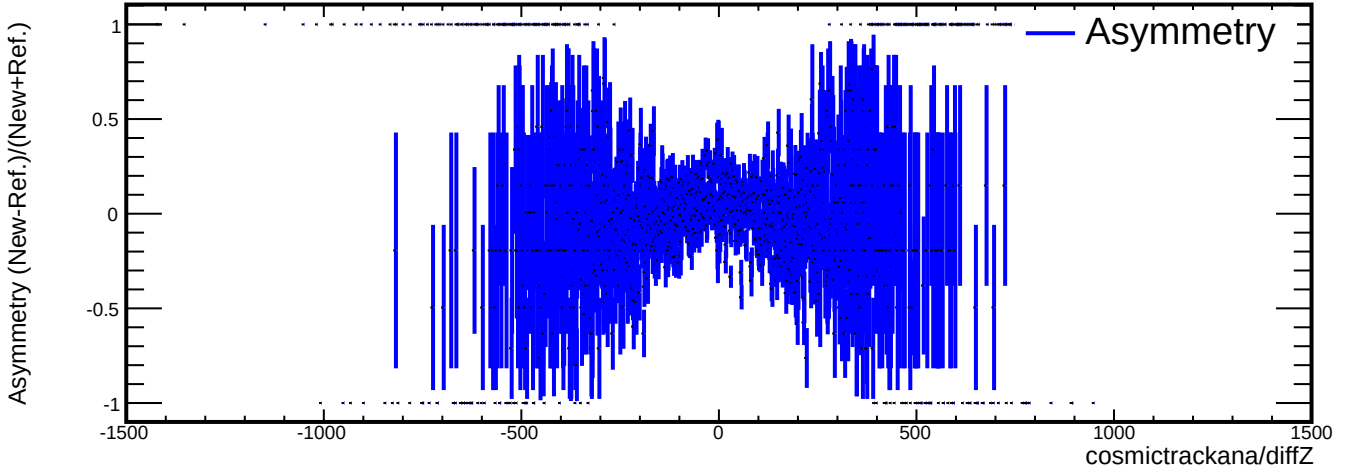

KS 9.22576e-05, chi2 8.95986e-73
2012-06-16
2012-06-17
1200
1000
800
600
400
200
0
-400
-200
0
200
400
cosmictrackana/diffX

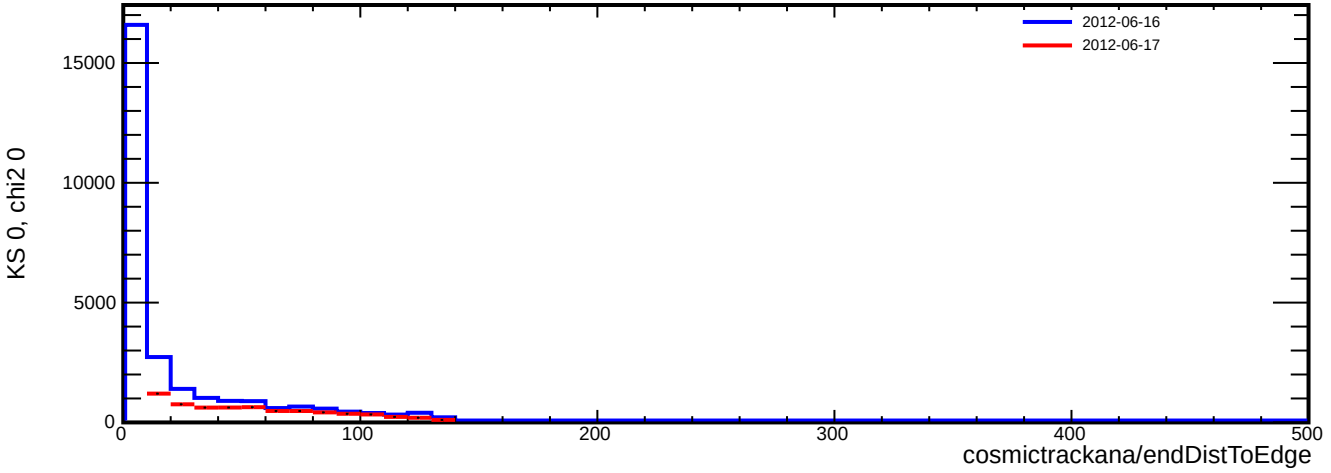

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
-400
-200
0
200
400
cosmictrackana/diffX

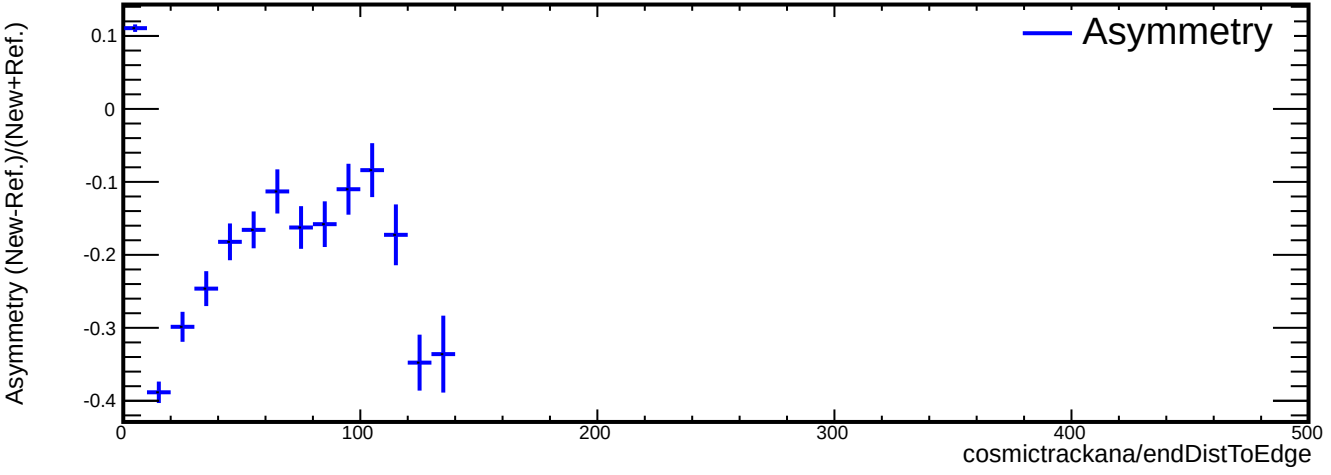

KS 0, chi2 2.96692e-281
2012-06-16
2012-06-17
2000
1500
1000
500
0
-400
-200
0
200
400
cosmictrackana/diffY

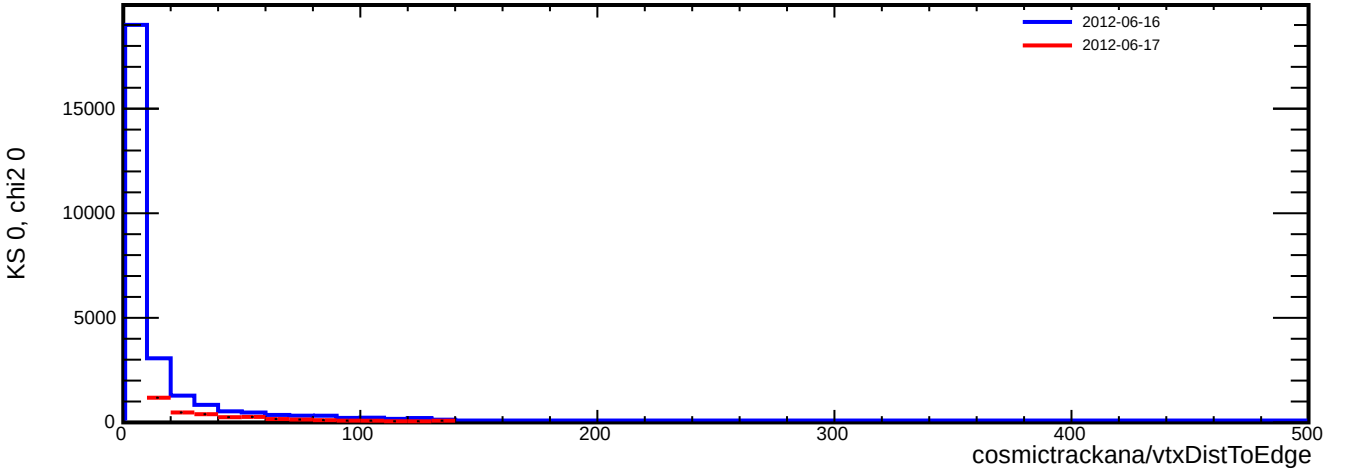

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
-400
-200
0
200
400
cosmictrackana/diffY

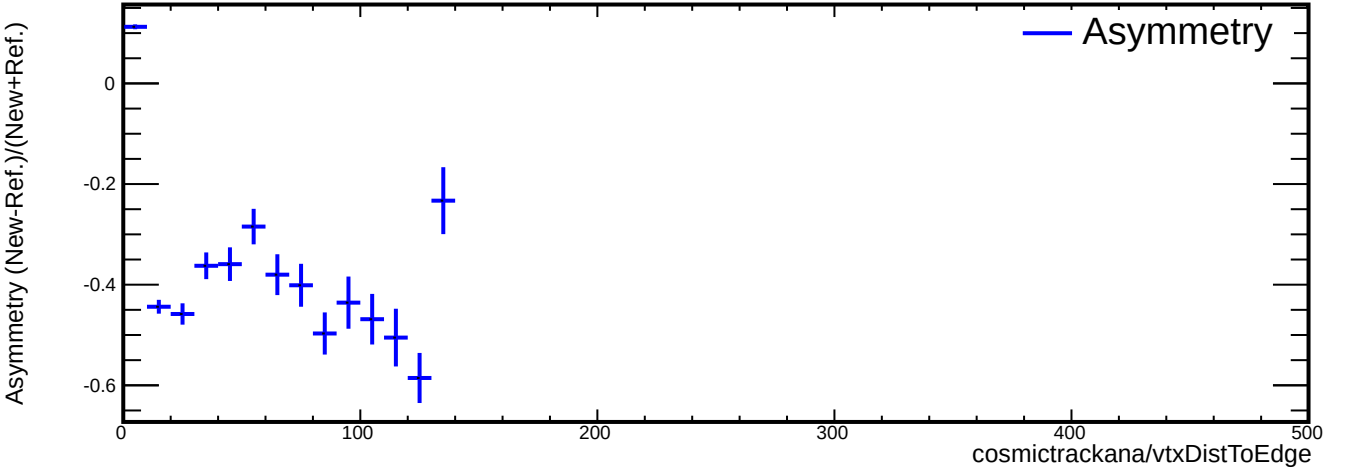

KS 6.75532e-11, chi2 1.71152e-71
2012-06-16
2012-06-17
cosmictrackana/diffZ

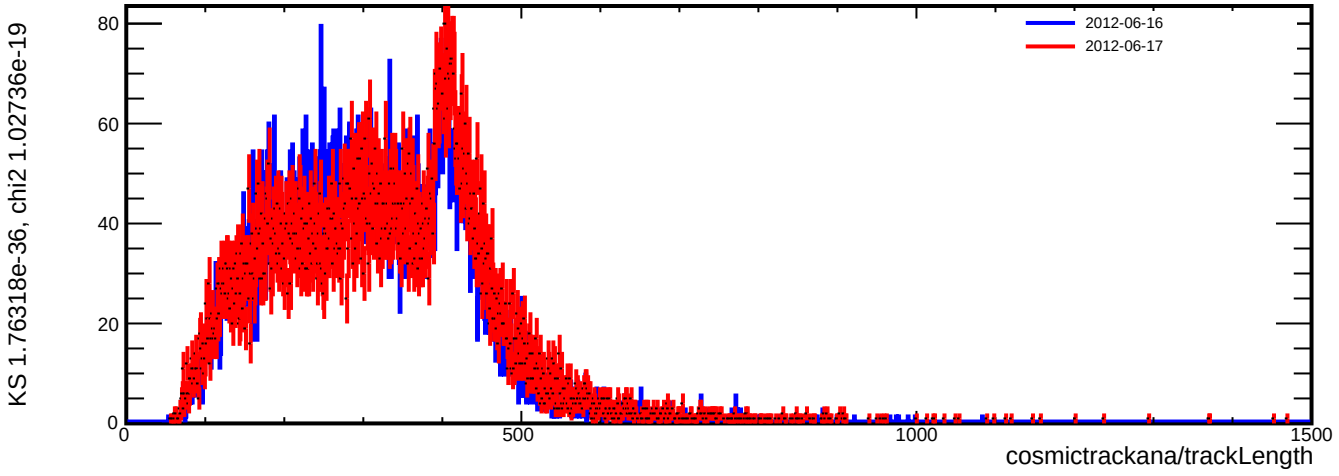

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/diffZ

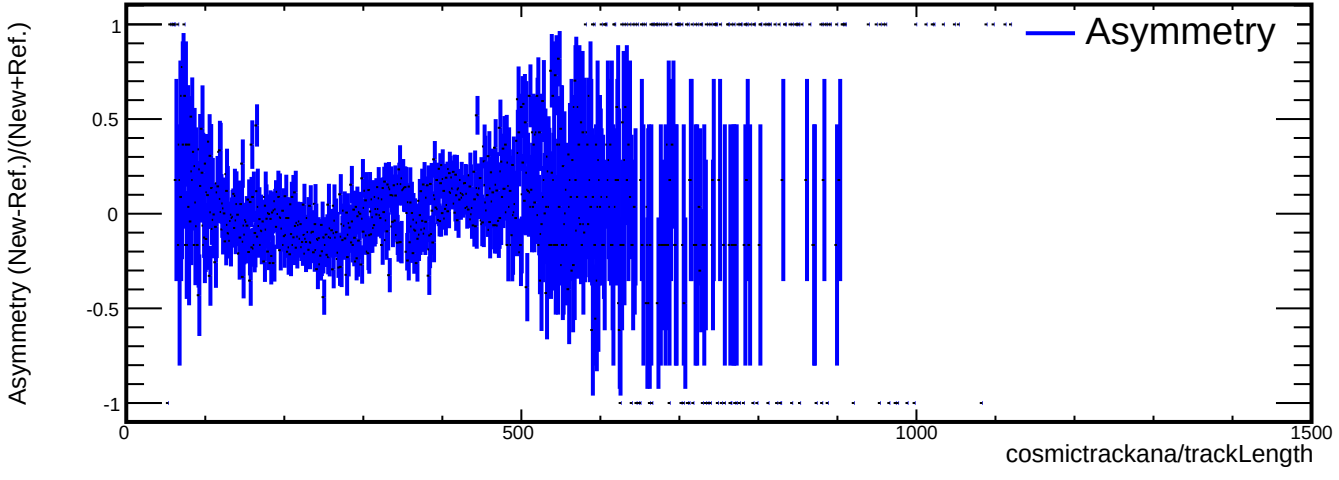

2012-06-16
2012-06-17
KS 0, chi2 0
15000
10000
5000
0
0
100
200
300
400
500
cosmictrackana/endDistToEdge

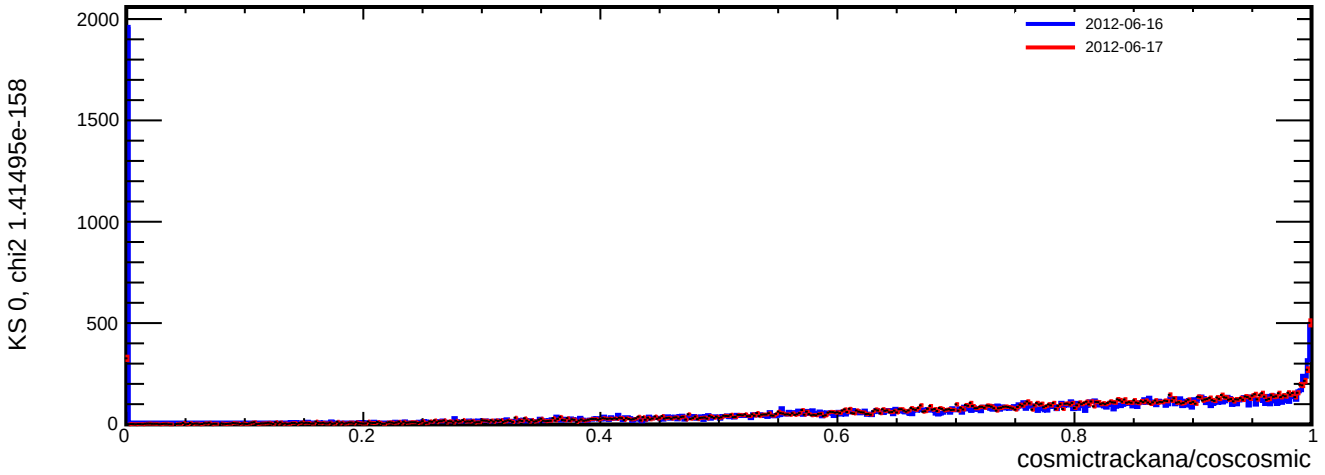

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0.1
0
-0.1
-0.2
-0.3
-0.4
0
100
200
300
400
500
cosmictrackana/endDistToEdge

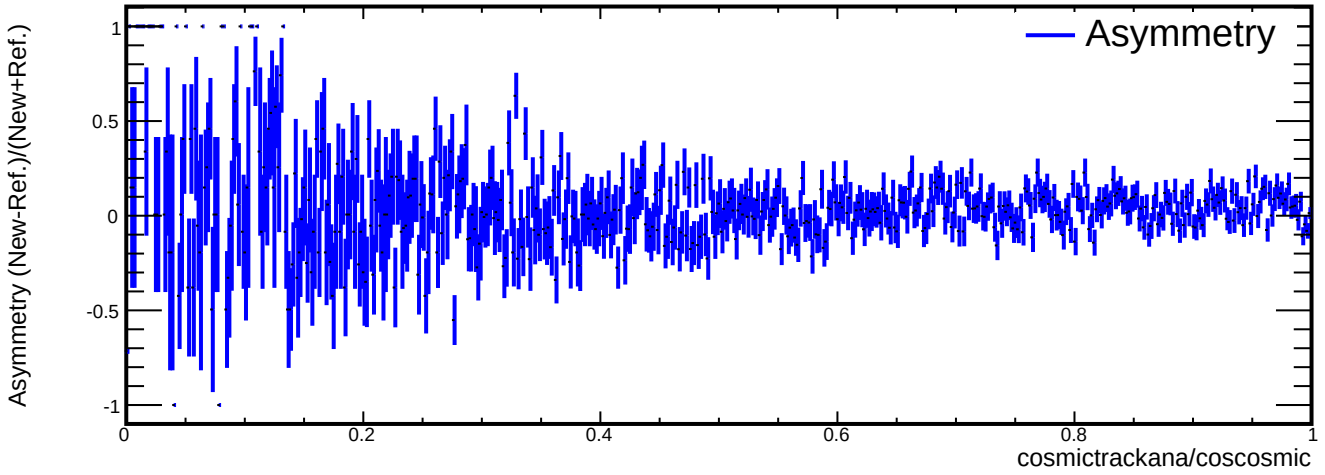

2012-06-16
2012-06-17
KS 0, chi2 0
15000
10000
5000
0
0
100
200
300
400
500
cosmictrackana/vtxDistToEdge

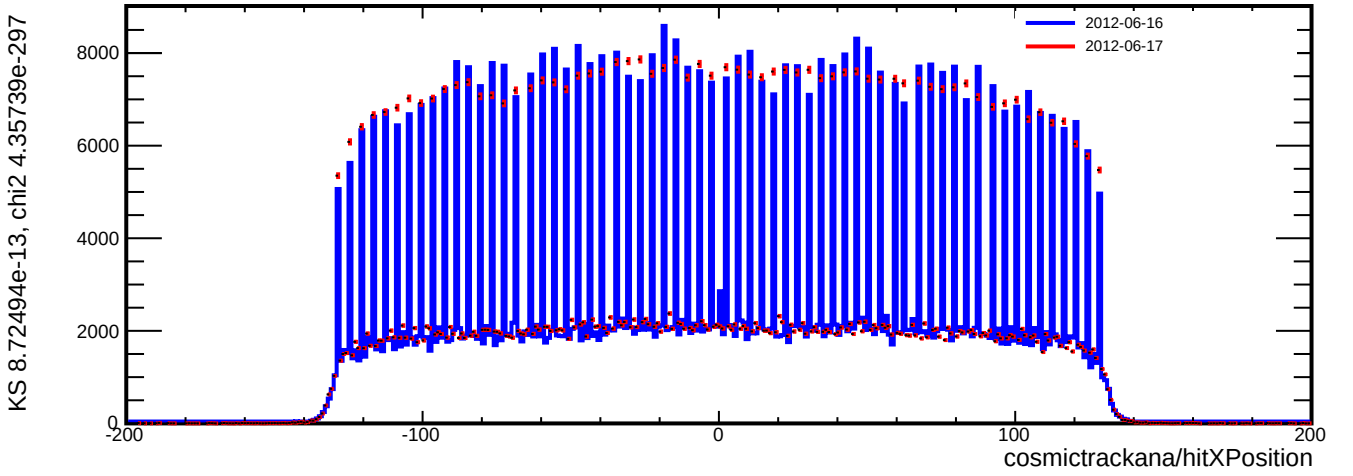

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0
-0.2
-0.4
-0.6
0
100
200
300
400
500
cosmictrackana/vtxDistToEdge

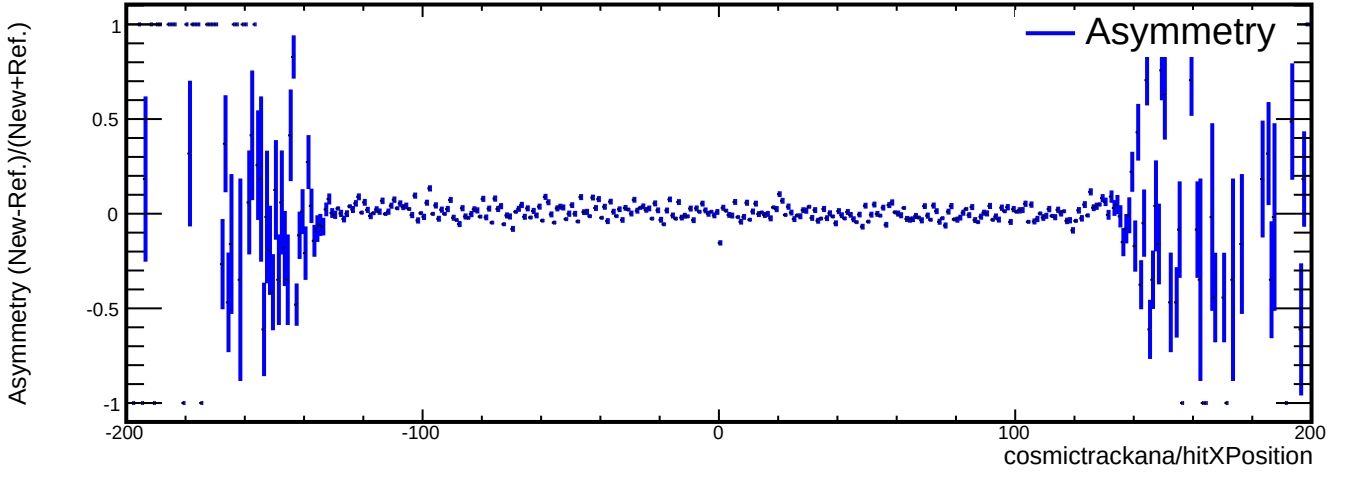

KS 1.76318e-36, chi2 1.02736e-19
2012-06-16
2012-06-17
0
20
40
60
80
0
500
1000
1500
cosmictrackana/trackLength

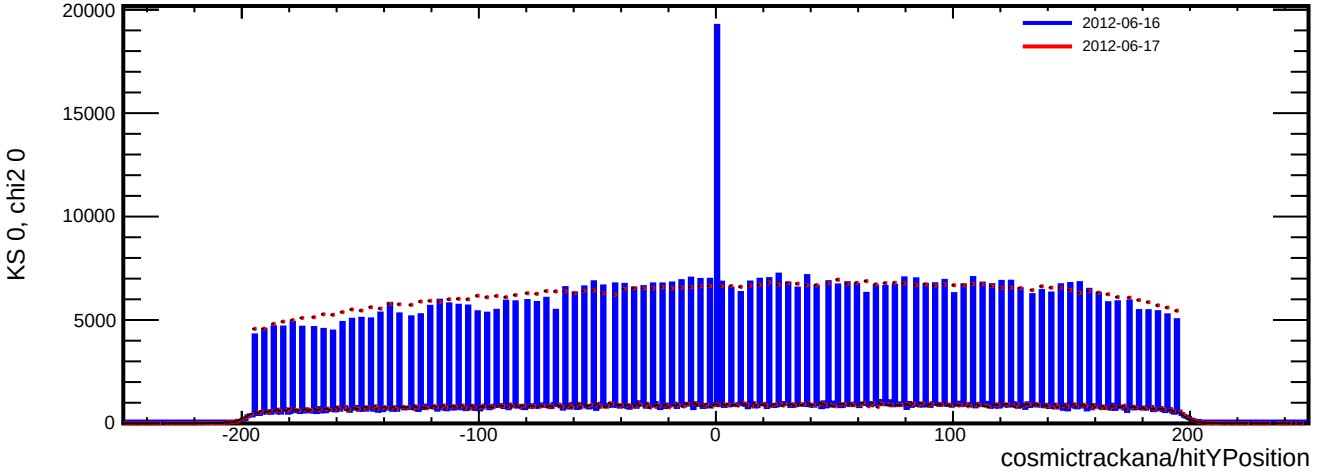

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/trackLength

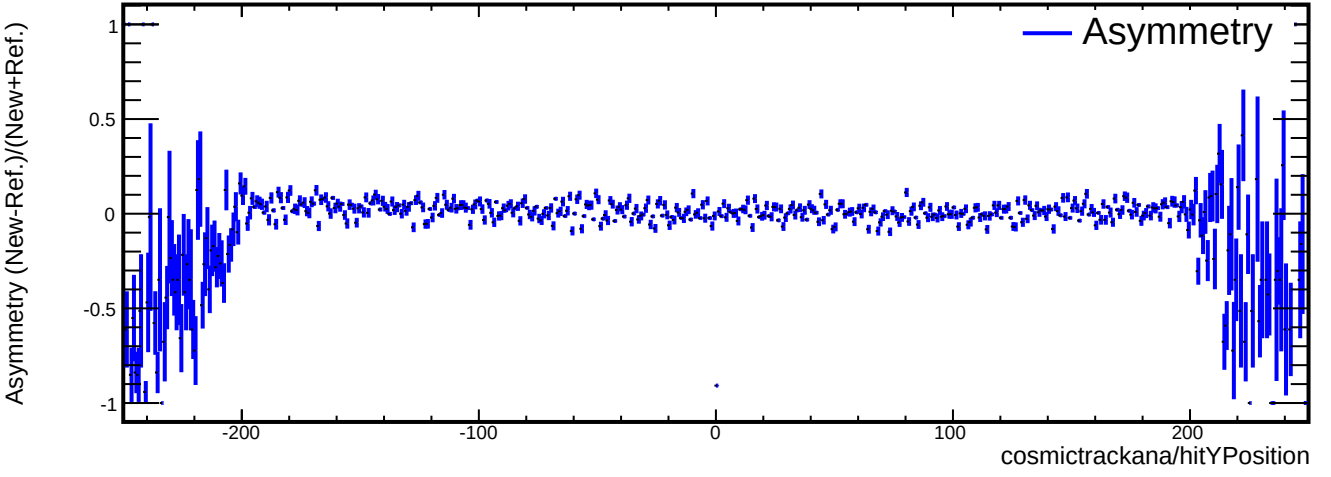

KS 0, chi2 1.41495e-158
2012-06-16
2012-06-17
2000
1500
1000
500
0
0
0.2
0.4
0.6
0.8
1
cosmictrackana/coscosmic

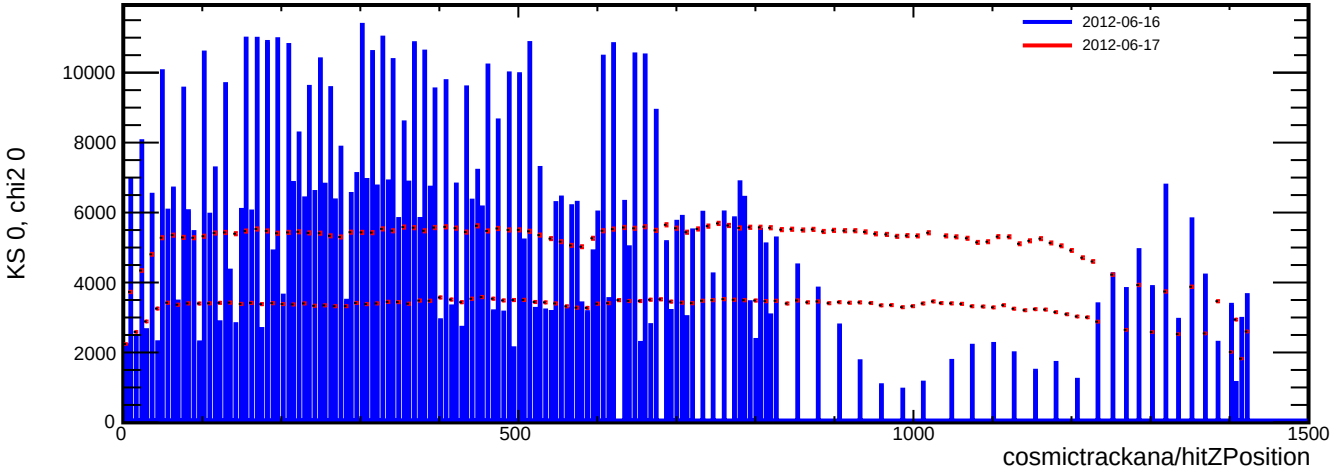

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
0.2
0.4
0.6
0.8
1
cosmictrackana/coscosmic

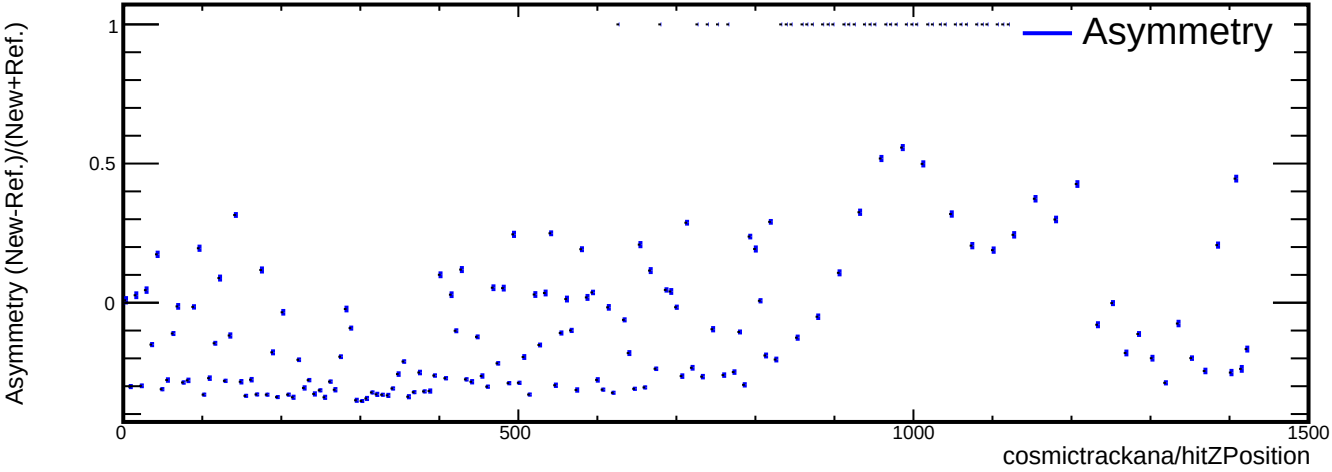

KS 8.72494e-13, chi2 4.35739e-297
2012-06-16
2012-06-17
8000
6000
4000
2000
0
-200
-100
0
100
200
cosmictrackana/hitXPosition

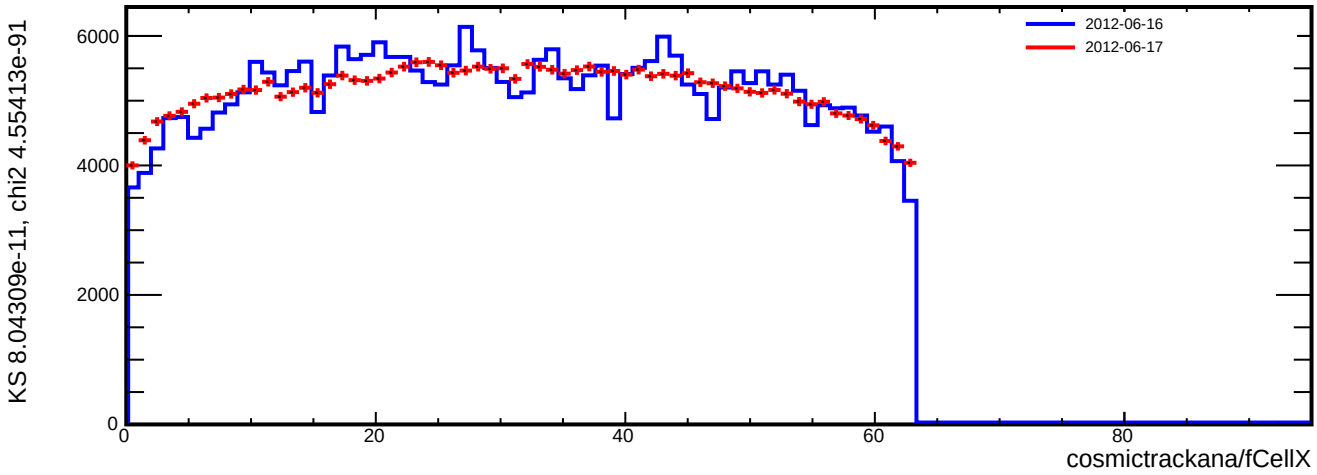

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitXPosition

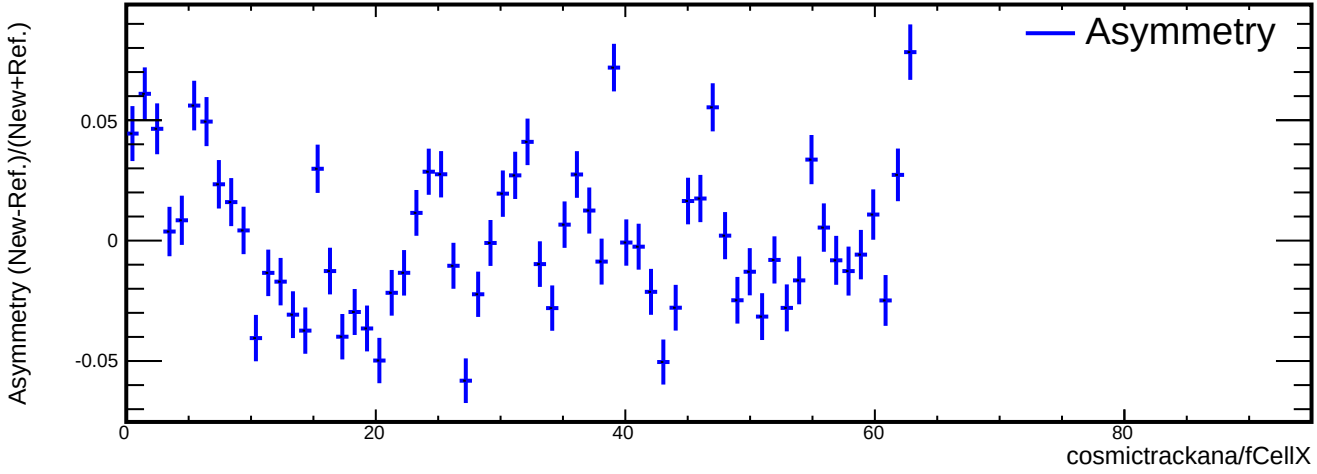

2012-06-16
2012-06-17
KS 0, chi2 0
20000
15000
10000
5000
0
-200
-100
0
100
200
cosmictrackana/hitYPosition

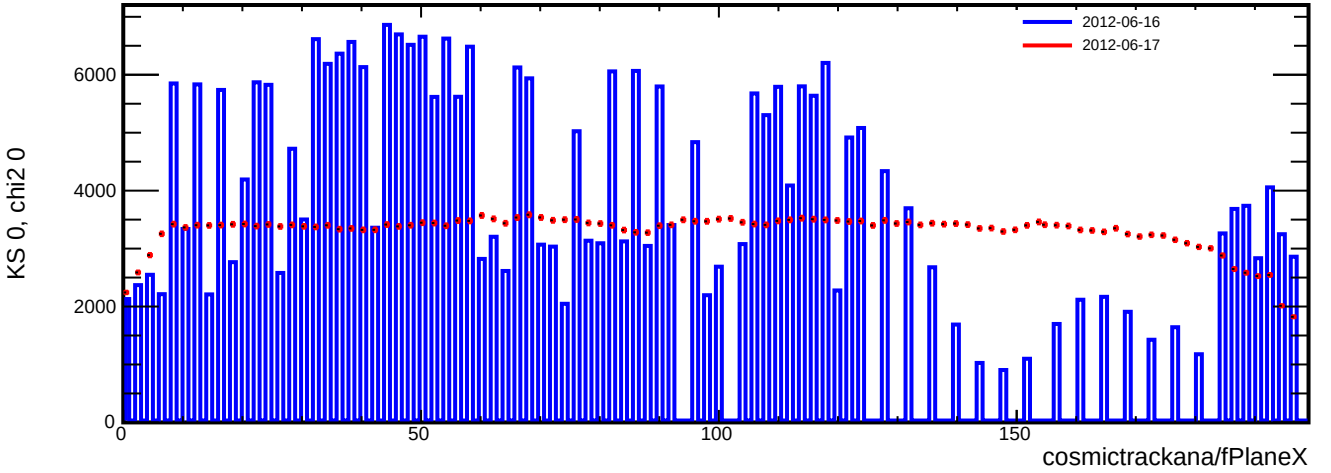

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitYPosition

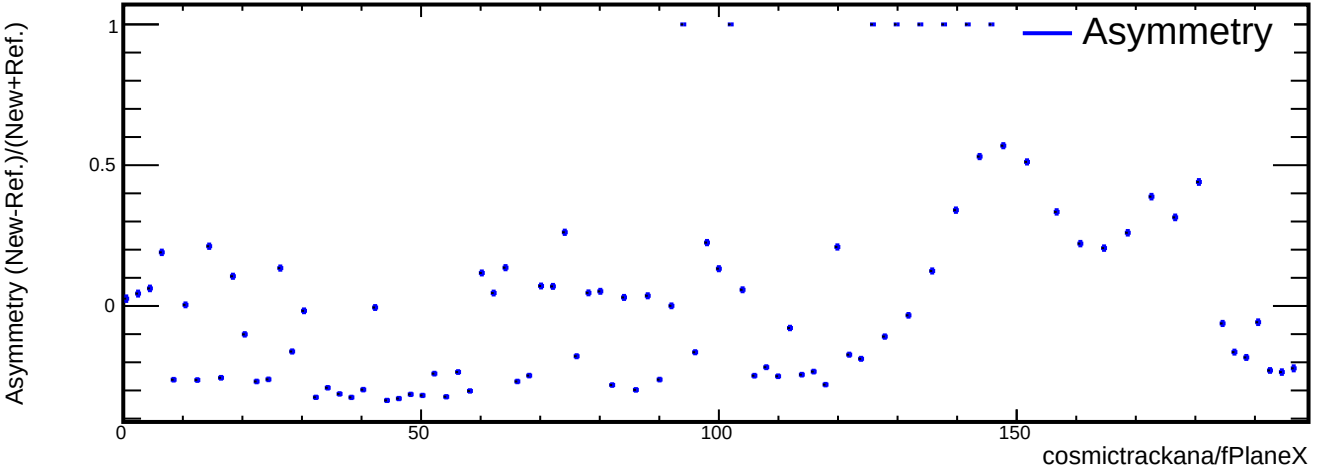

2012-06-16
2012-06-17
KS 0, chi2 0
0
2000
4000
6000
8000
10000
0
500
1000
1500
cosmictrackana/hitZPosition

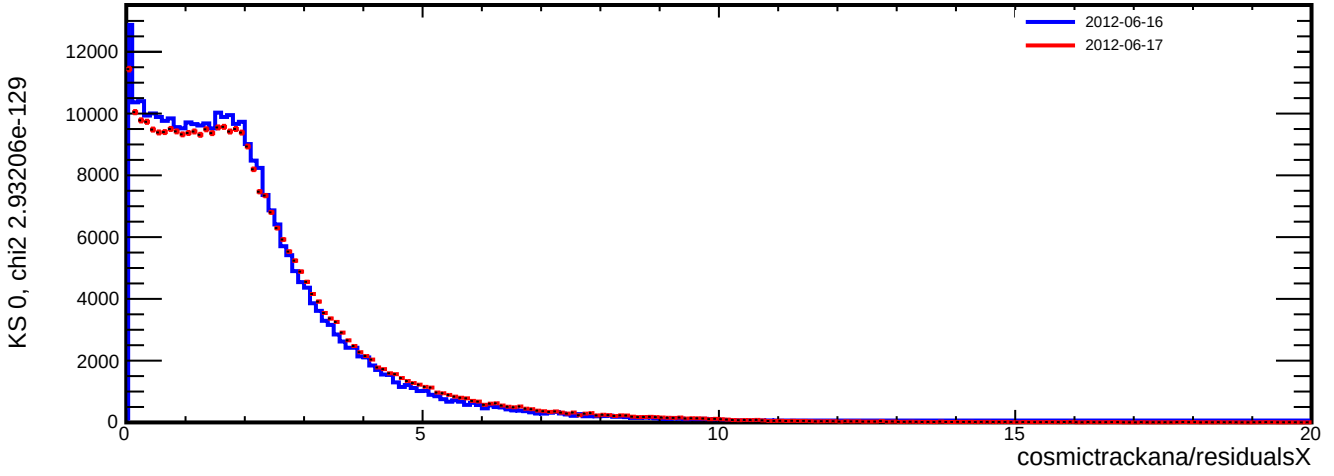

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
0
500
1000
1500
cosmictrackana/hitZPosition

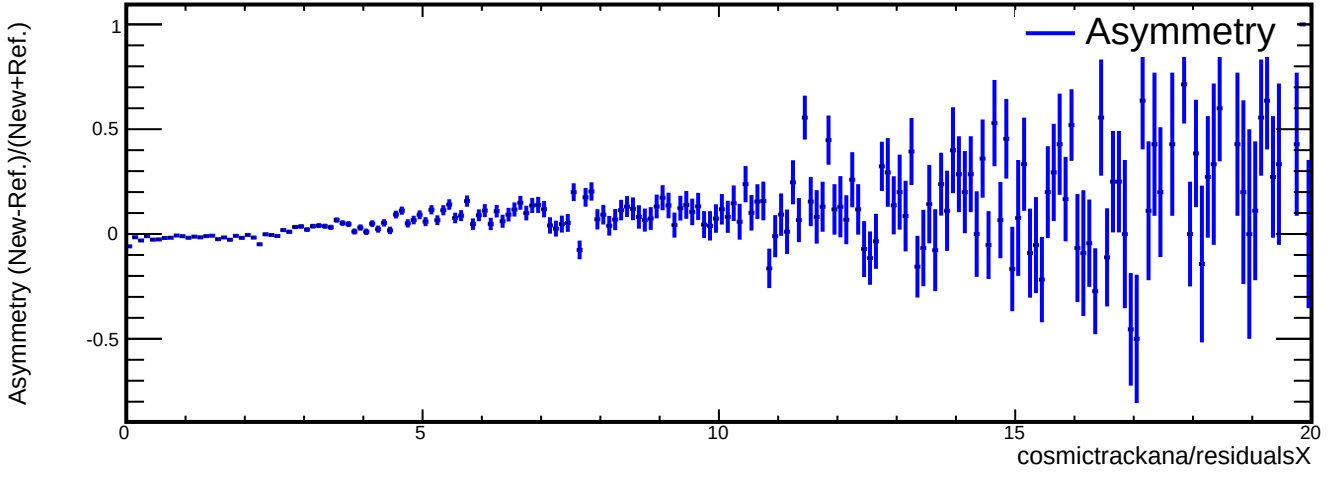

KS 8.04309e-11, chi2 4.55413e-91
6000
4000
2000
0
0
20
40
60
80
cosmictrackana/fCellX
2012-06-16
2012-06-17

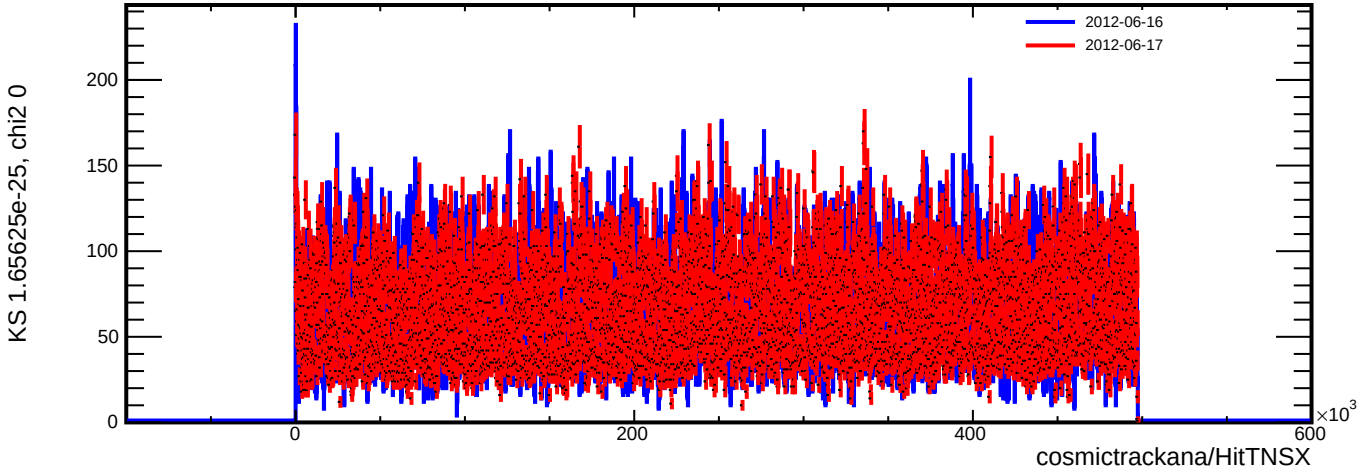

Asymmetry (New-Ref.)/(New+Ref.)
0.05
0
-0.05
0
20
40
60
80
cosmictrackana/fCellX
Asymmetry

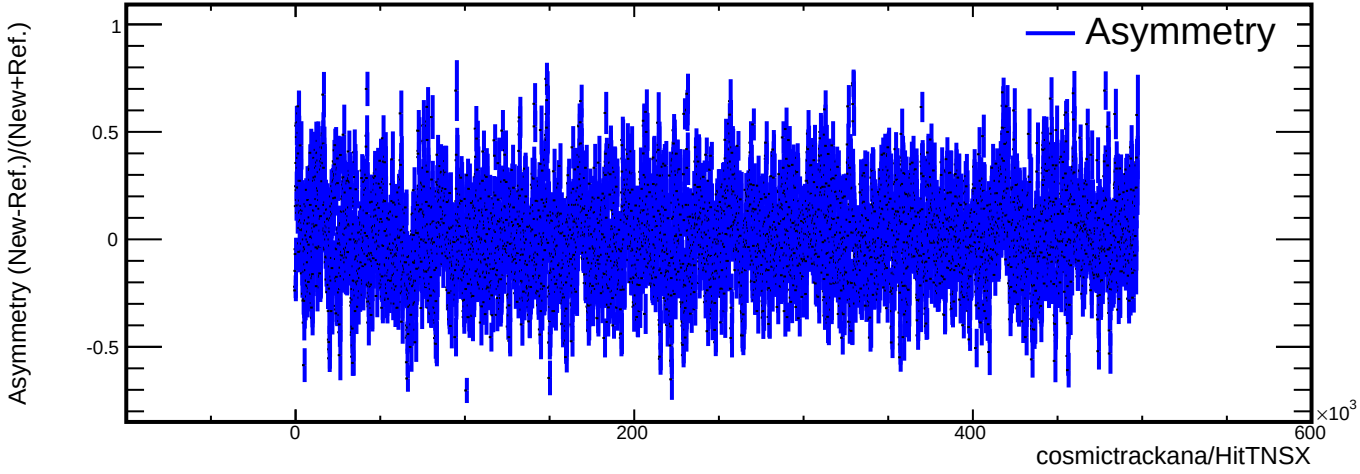

2012-06-16
2012-06-17
KS 0, chi2 0
0
2000
4000
6000
0
50
100
150
cosmictrackana/fPlaneX

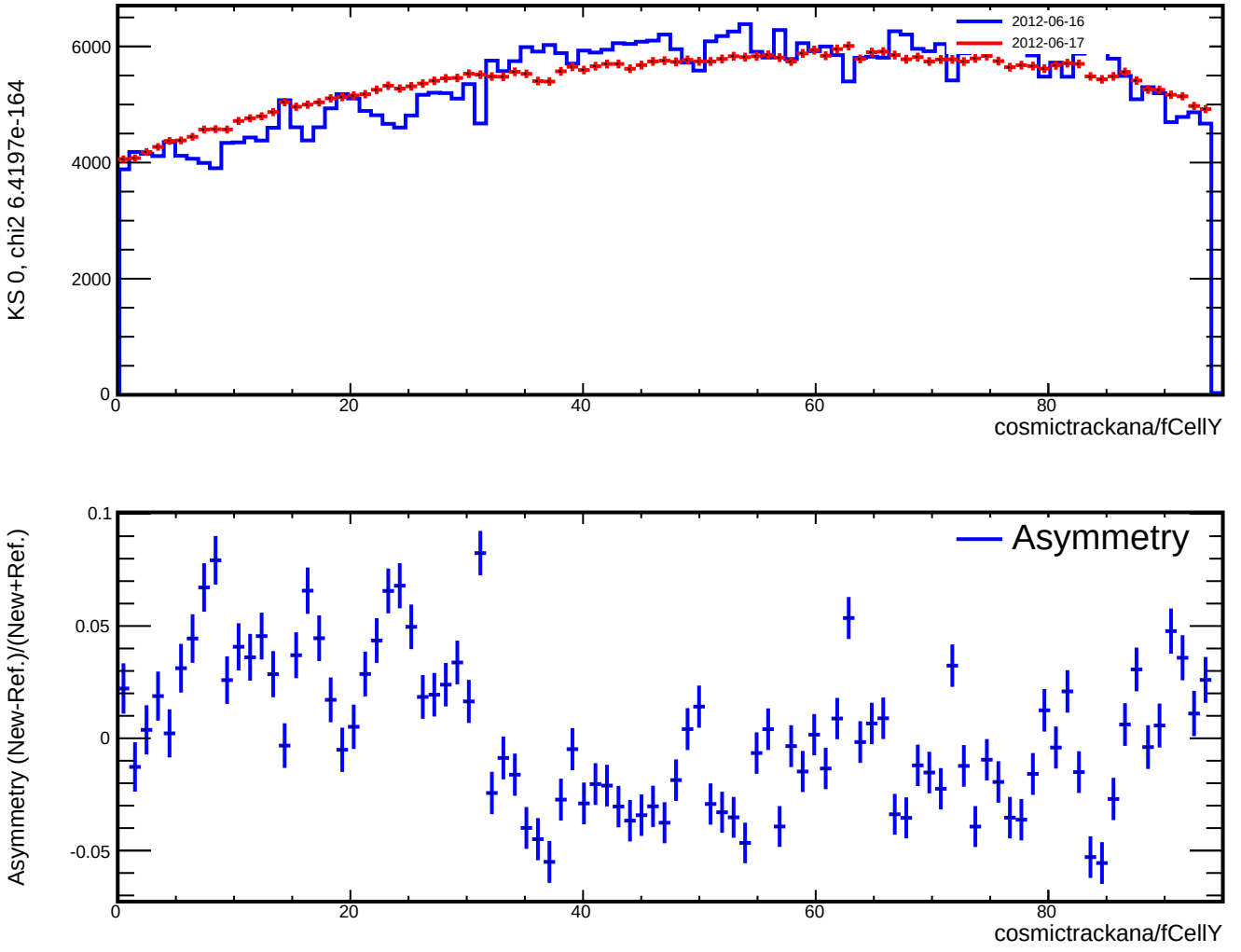

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
0
50
100
150
cosmictrackana/fPlaneX

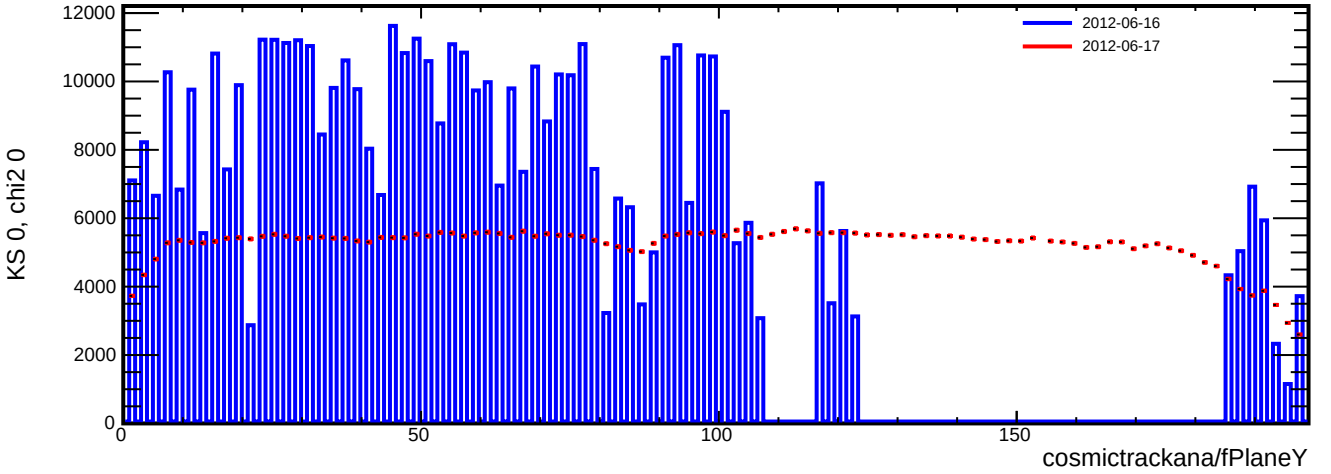

2012-06-16
2012-06-17
KS 0, chi2 2.93206e-129
12000
10000
8000
6000
4000
2000
0
0
5
10
15
20
cosmictrackana/residualsX

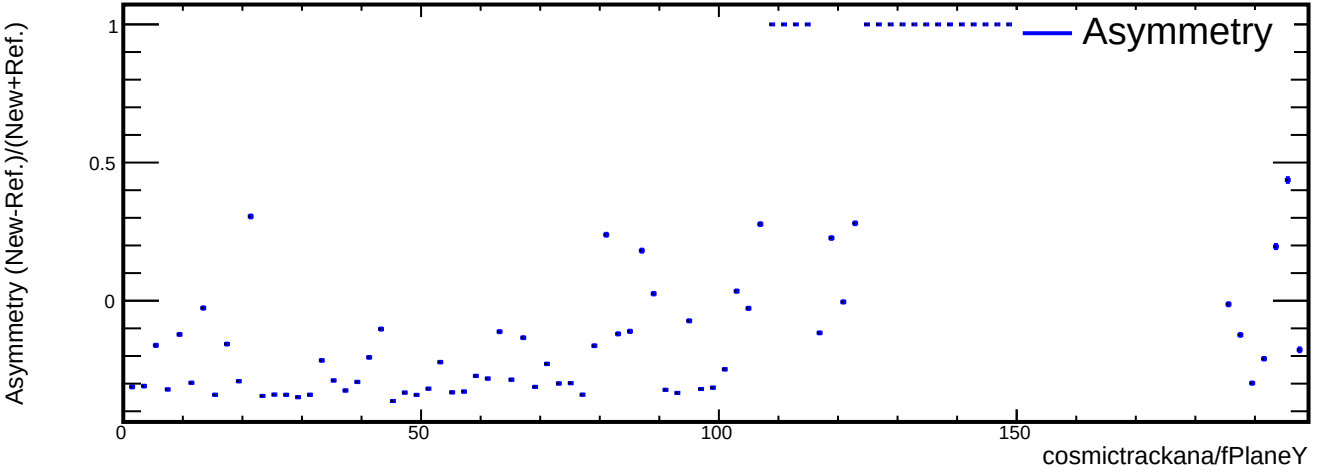

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
0
5
10
15
20
cosmictrackana/residualsX

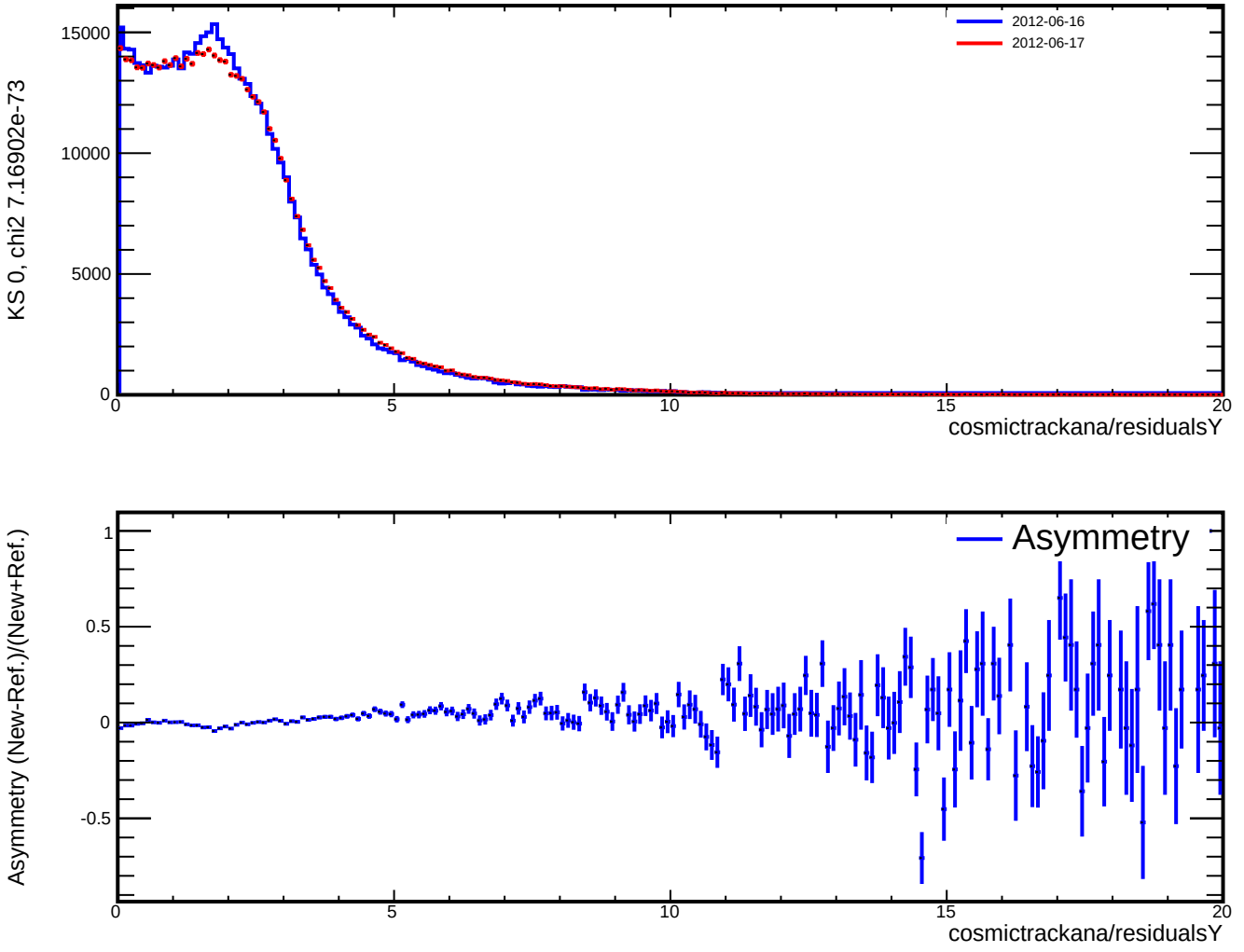

2012-06-16
2012-06-17
KS 1.65625e-25, chi2 0
200
150
100
50
0
0
200
400
600
×10^3
cosmictrackana/HitTNSX

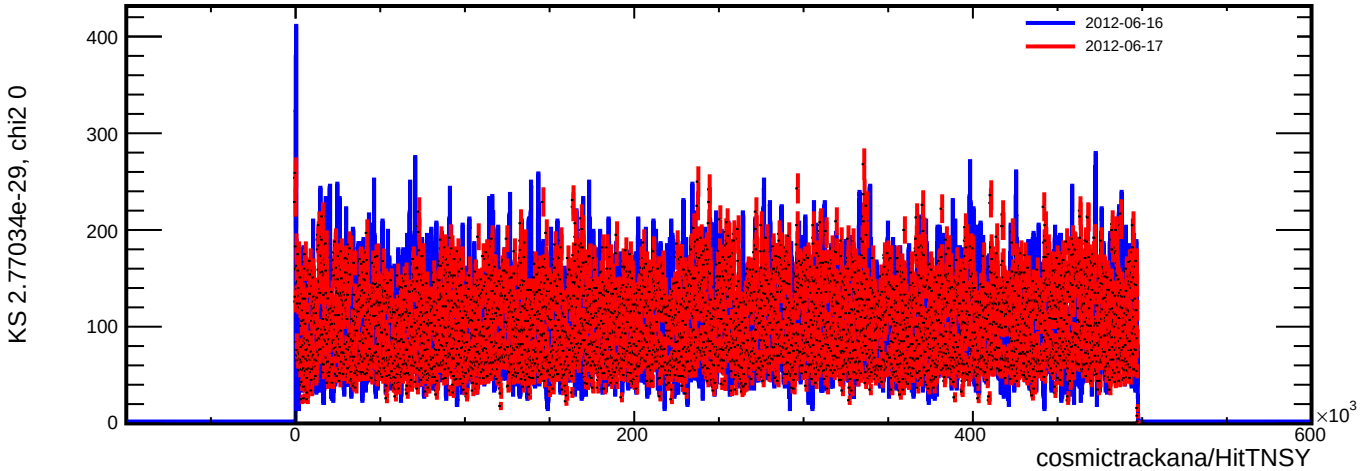

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
0
200
400
600
×10^3
cosmictrackana/HitTNSX

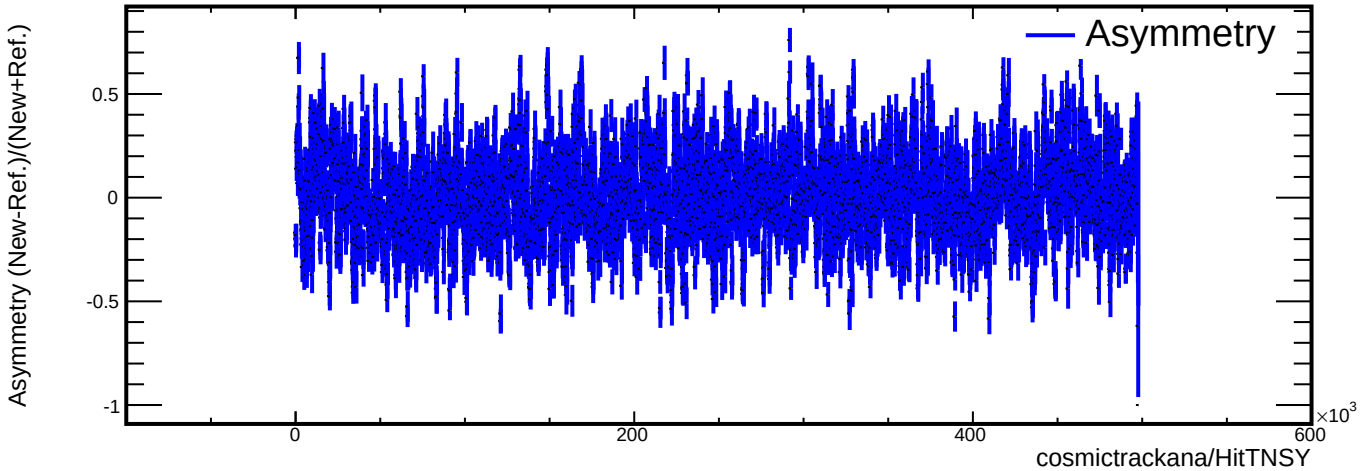

KS 0, chi2 6.4197e-164
2012-06-16
2012-06-17
cosmictrackana/fCellY
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/fCellY


2012-06-16
2012-06-17
KS 0, chi2 0
cosmictrackana/fPlaneY


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


KS 0, chi2 7.16902e-73
15000
10000
5000
0
0
5
10
15
20
cosmictrackana/residualsY
2012-06-16
2012-06-17
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
Asymmetry
cosmictrackana/residualsY


2012-06-16
2012-06-17
KS 2.77034e-29, chi2 0
400
300
200
100
0
0
200
400
600
×10^3
cosmictrackana/HitTNSY


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