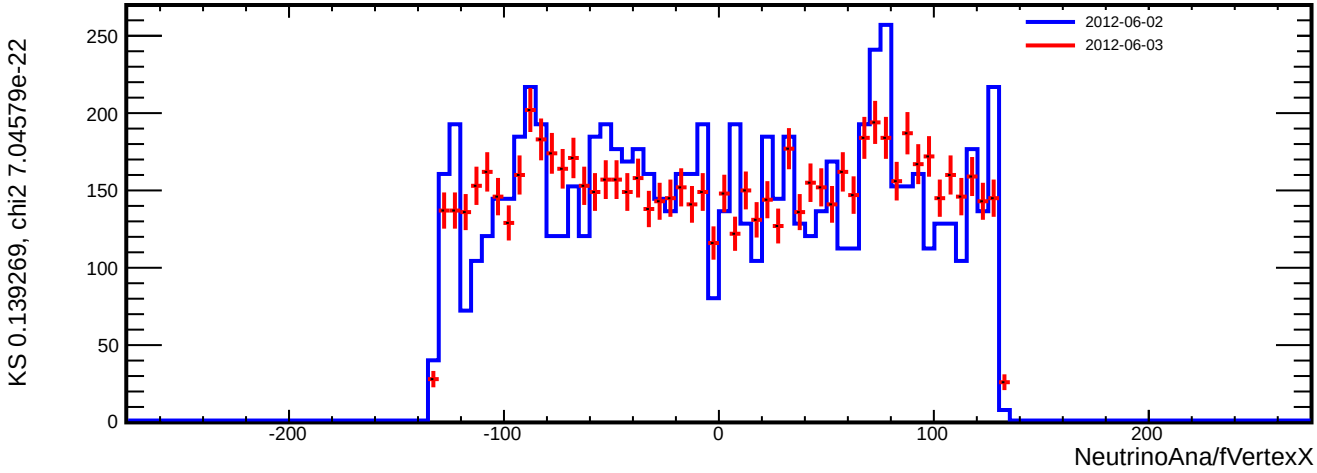
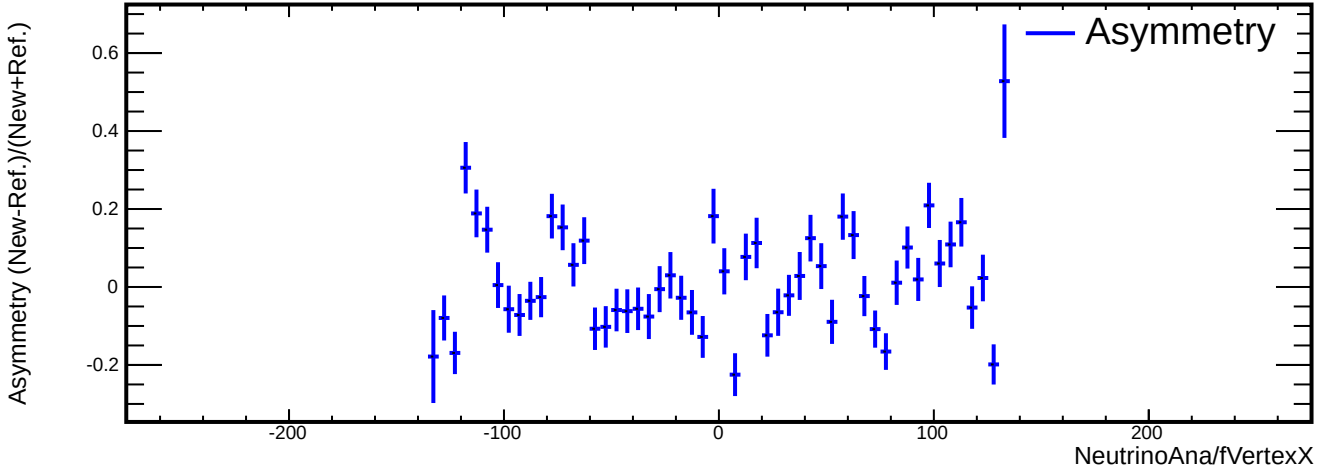
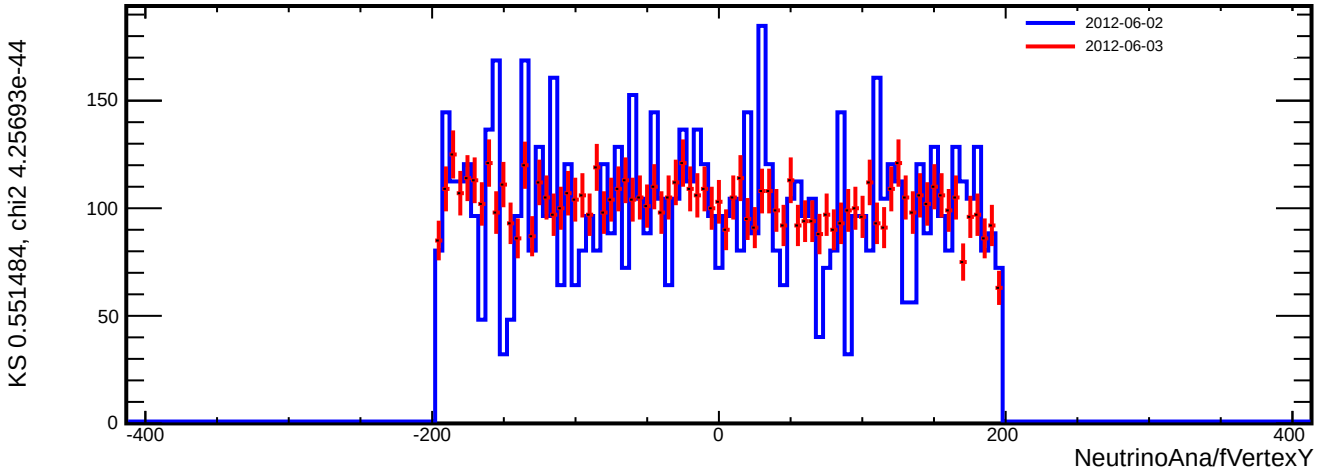
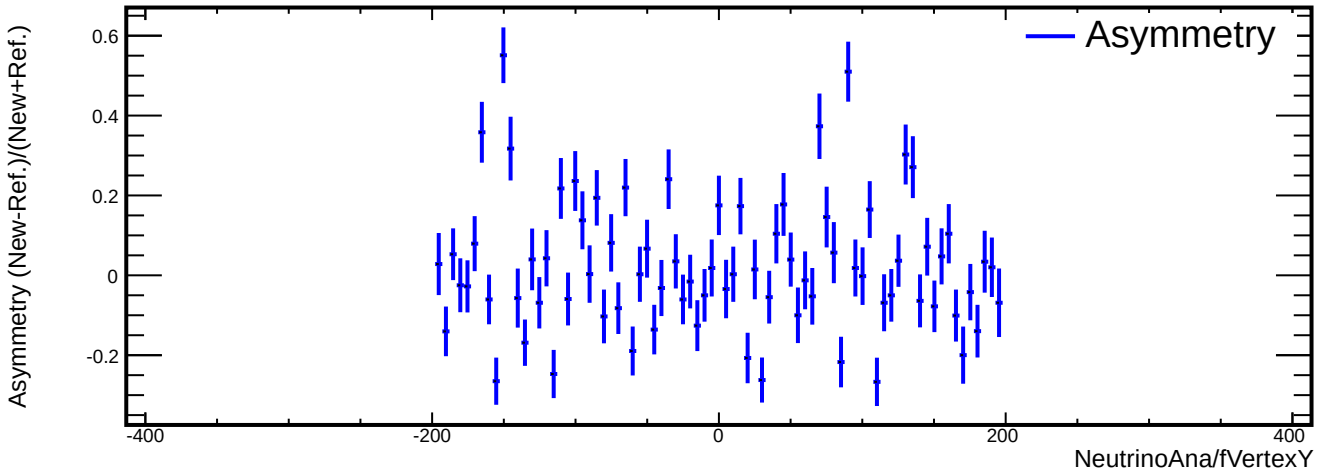
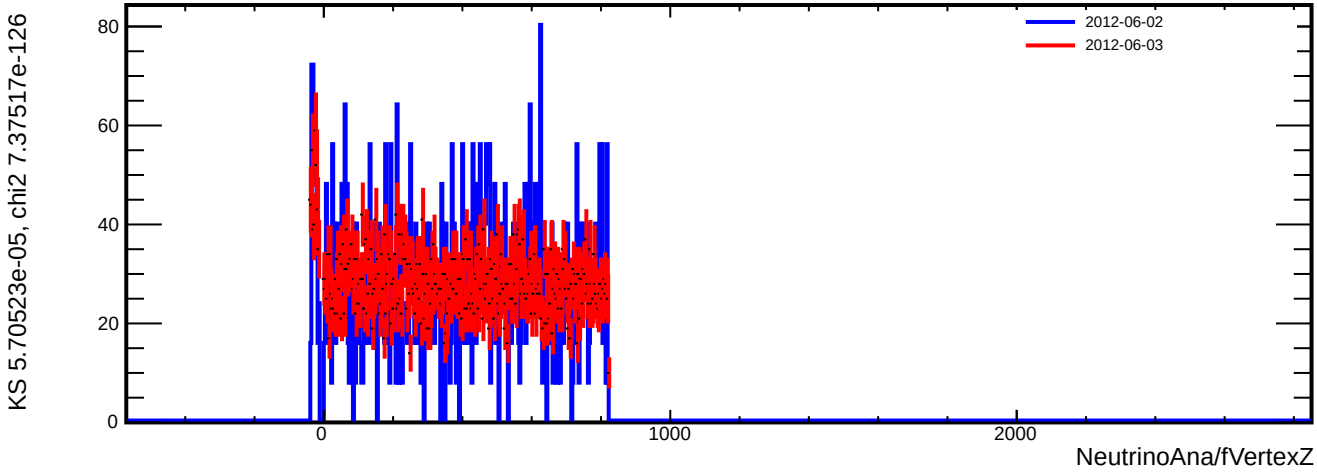
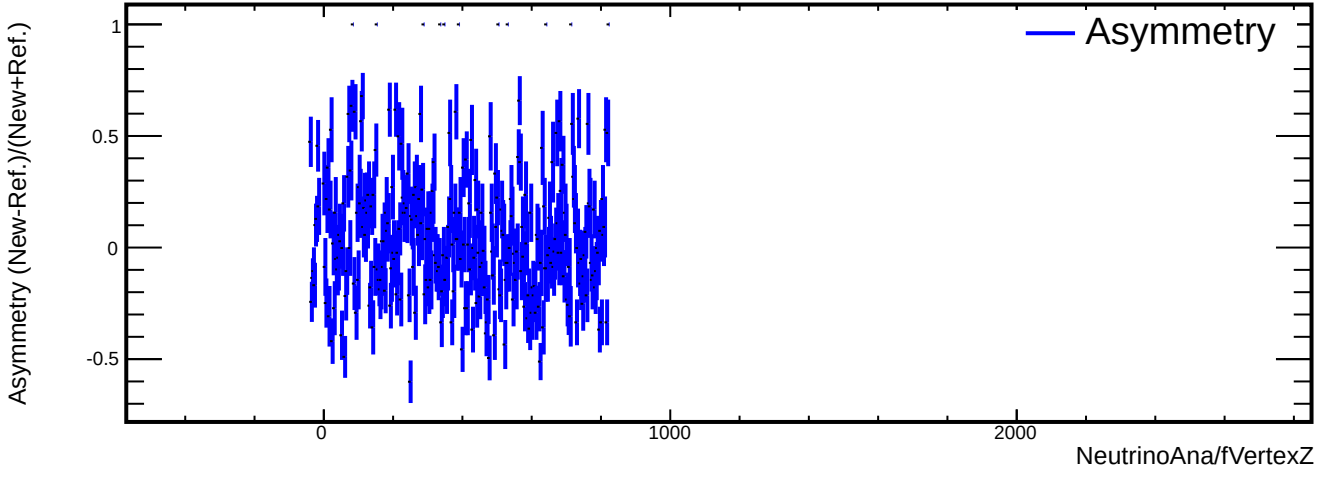

KS 0.139269, chi2 7.04579e-22
2012-06-02
2012-06-03
NeutrinoAna/fVertexX

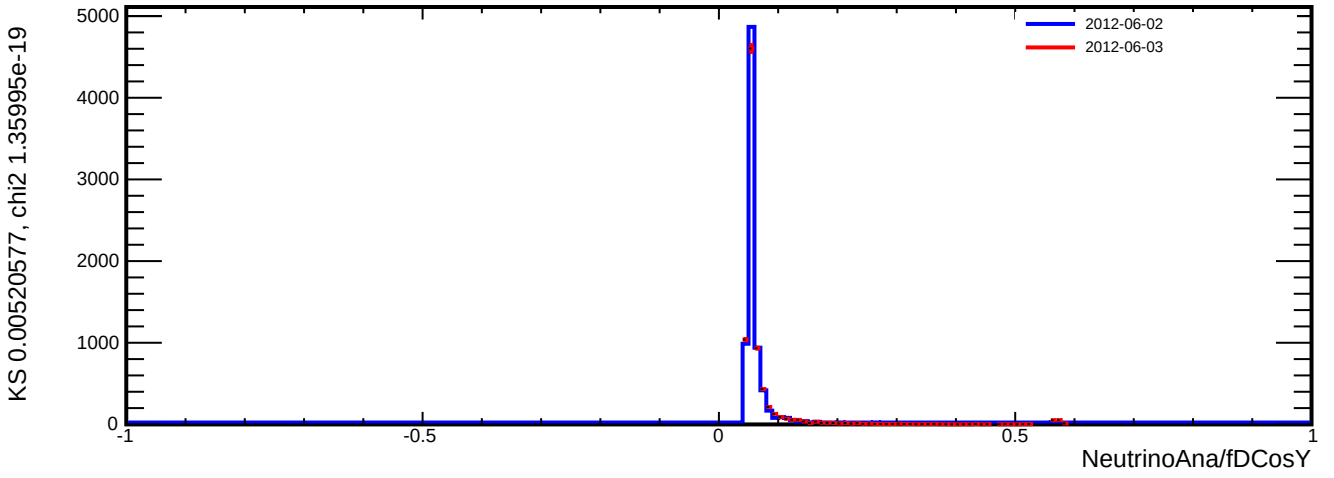

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fVertexX

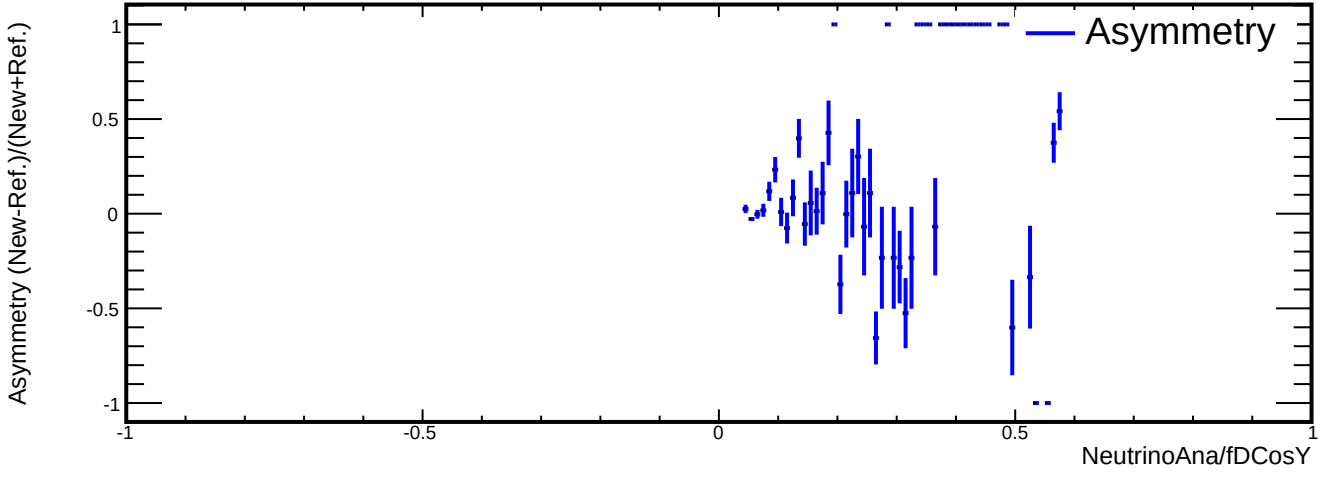

KS 0.551484, chi2 4.25693e-44
2012-06-02
2012-06-03
150
100
50
0
-400
-200
0
200
400
NeutrinoAna/fVertexY

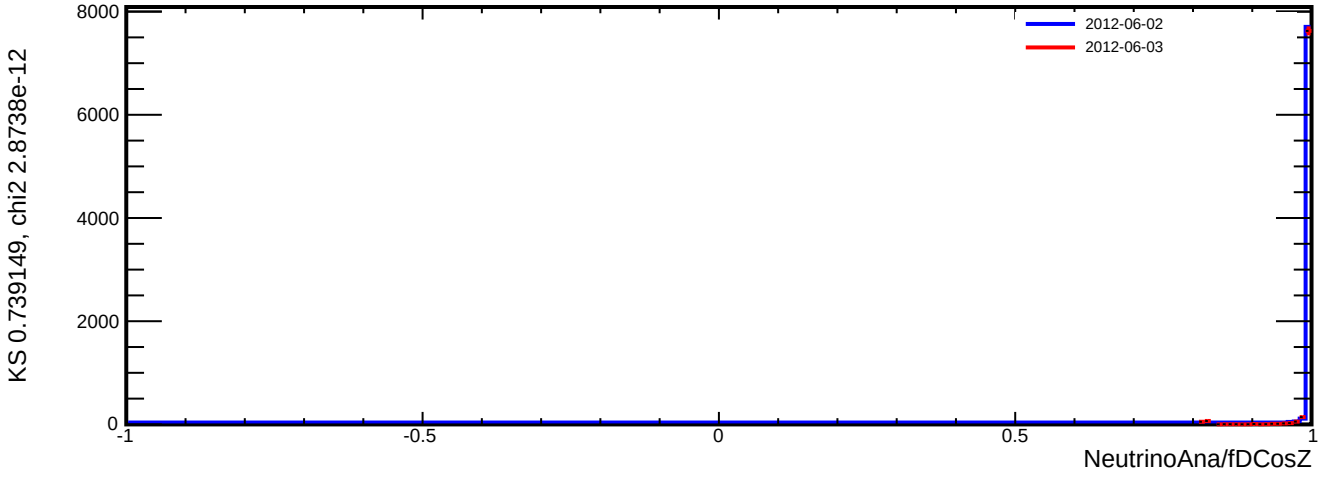

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.6
0.4
0.2
0
-0.2
-400
-200
0
200
400
NeutrinoAna/fVertexY

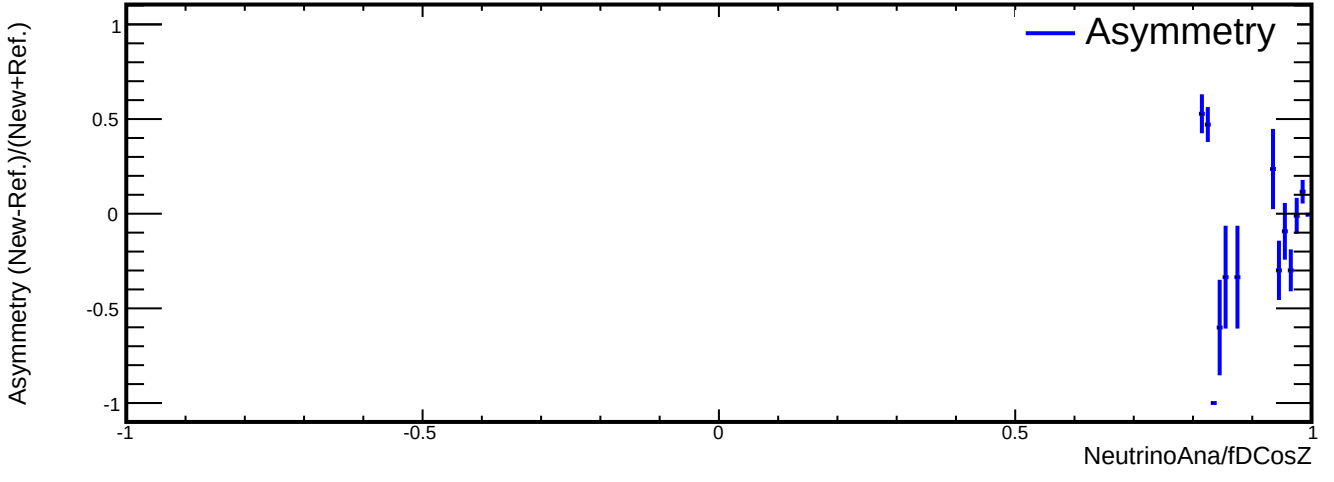

KS 5.70523e-05, chi2 7.37517e-126
80
60
40
20
0
0
1000
2000
NeutrinoAna/fVertexZ
2012-06-02
2012-06-03

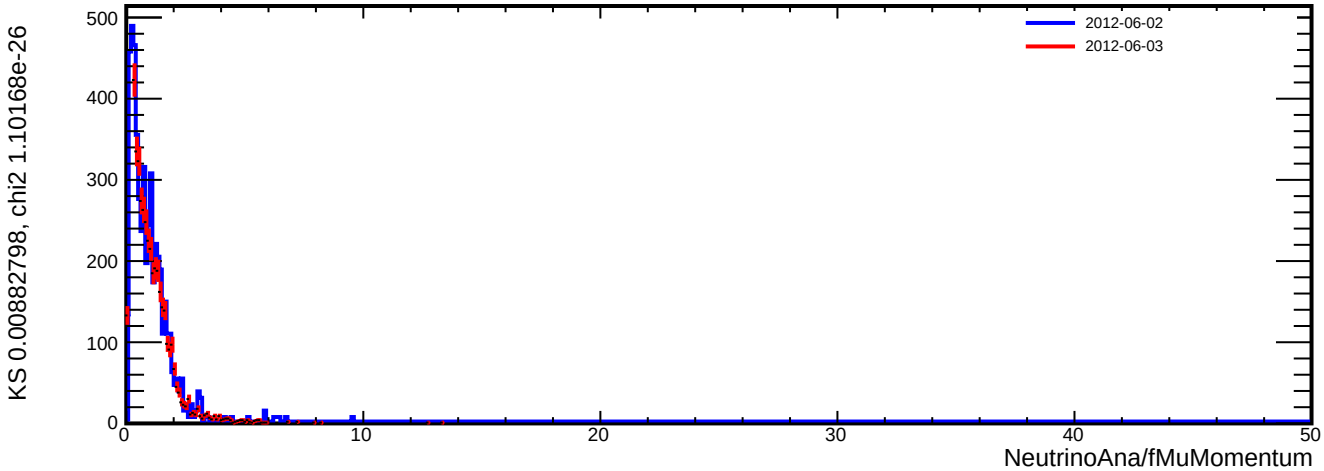

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
0
1000
2000
NeutrinoAna/fVertexZ
Asymmetry

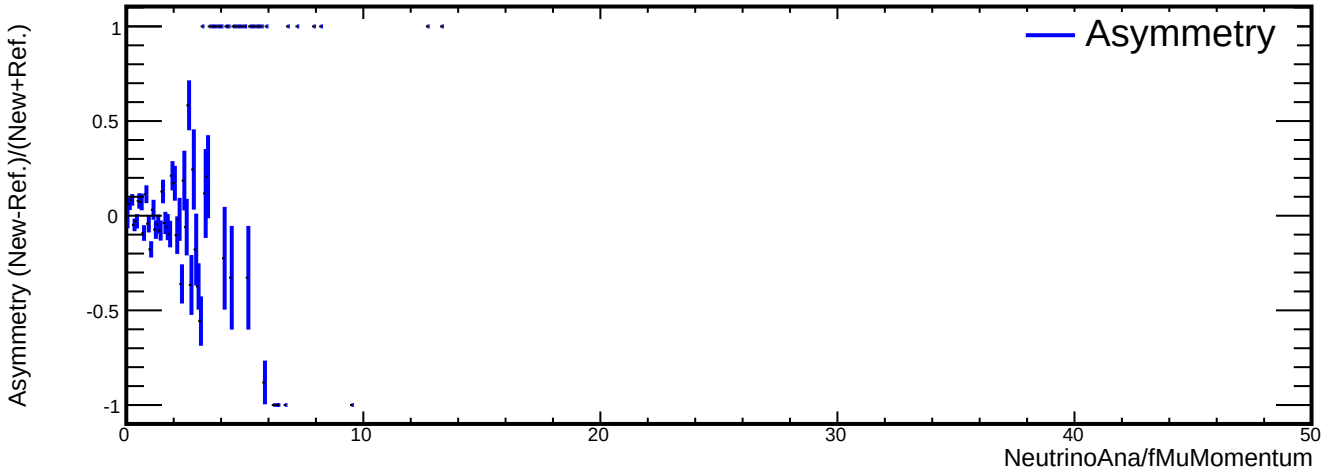

KS 0.00520577, chi2 1.35995e-19
2012-06-02
2012-06-03
5000
4000
3000
2000
1000
0
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosY

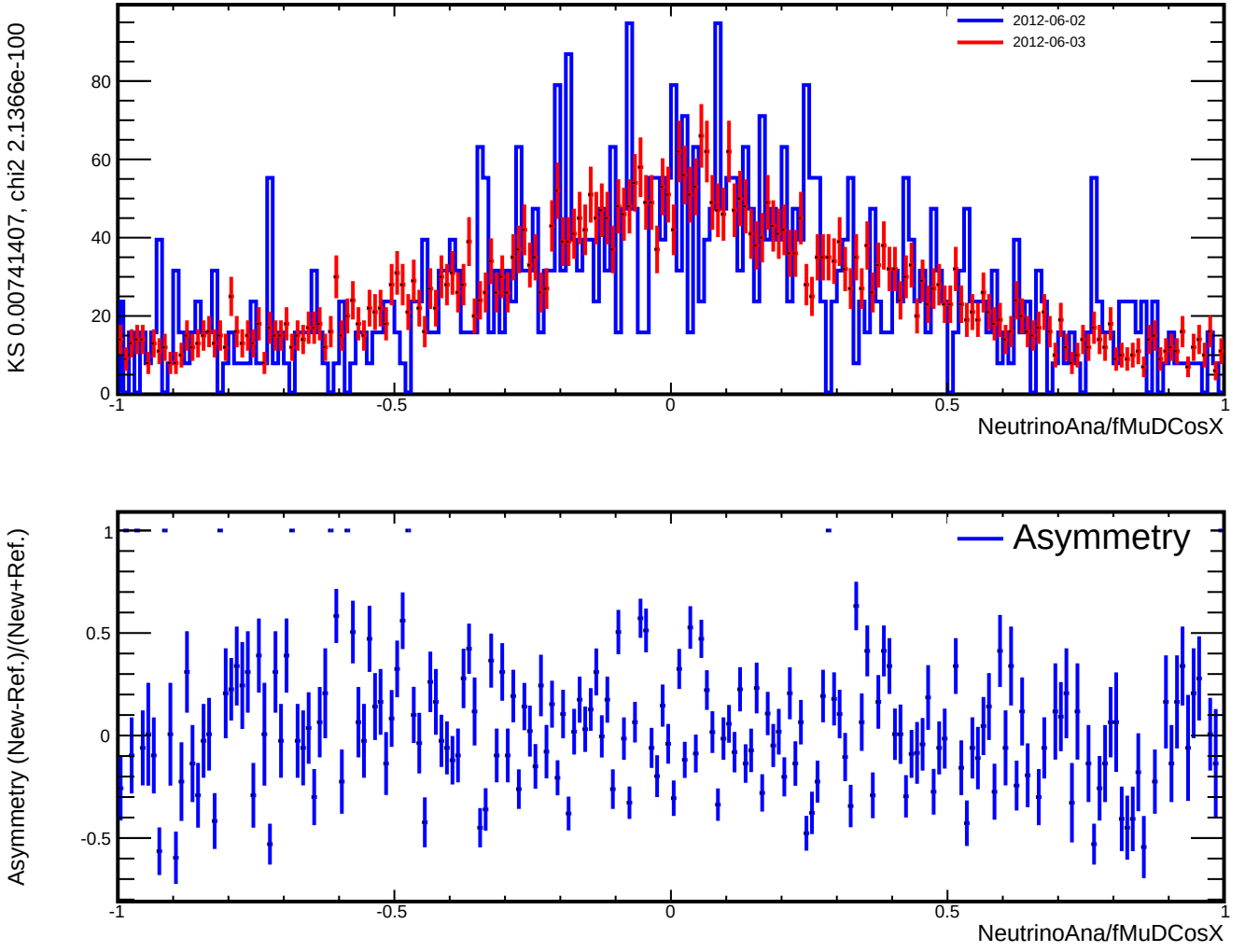

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosY

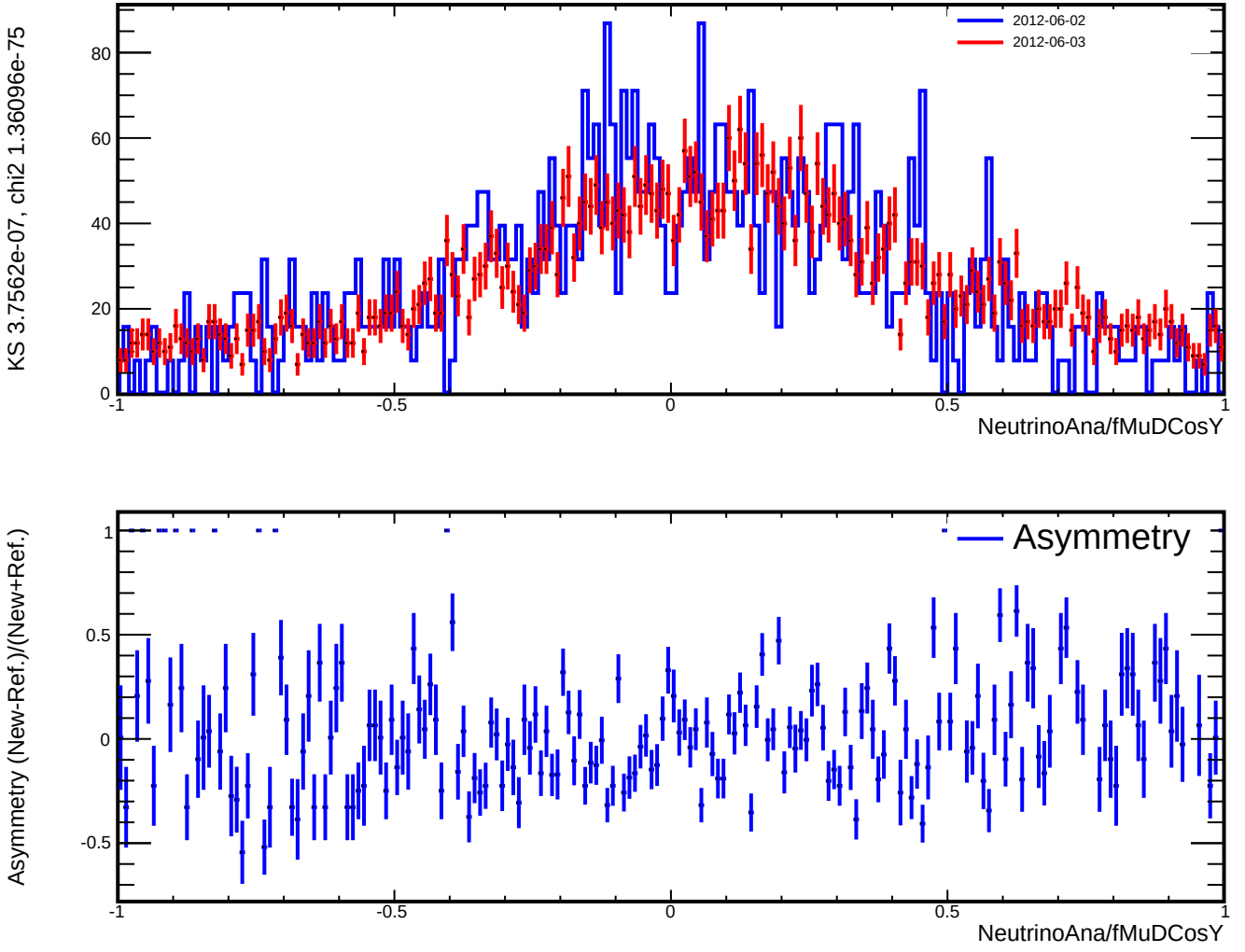

KS 0.739149, chi2 2.8738e-12
8000
6000
4000
2000
0
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosZ
2012-06-02
2012-06-03

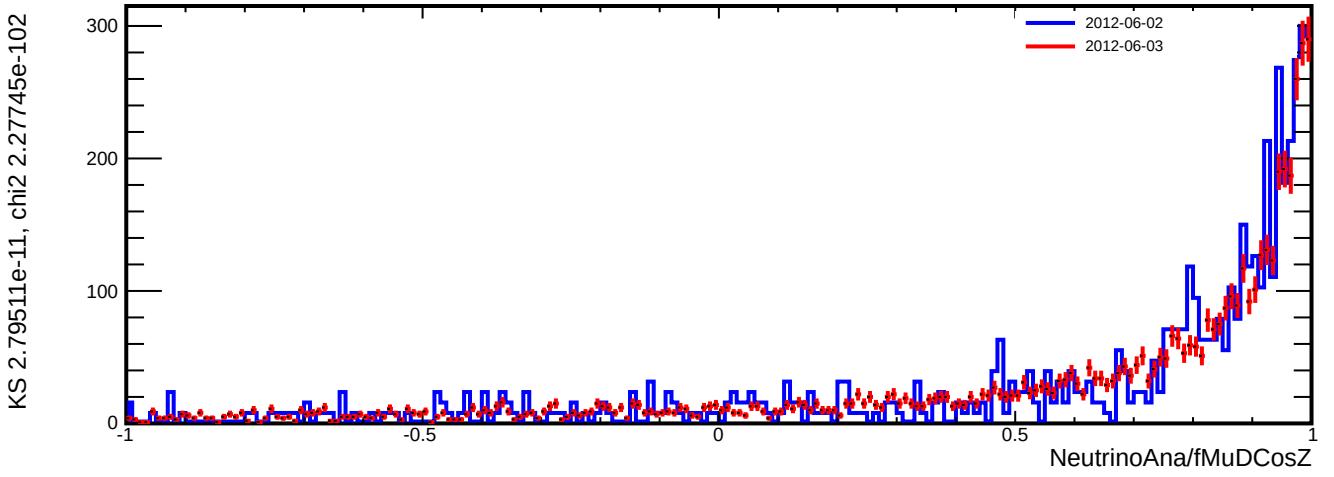

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosZ
Asymmetry

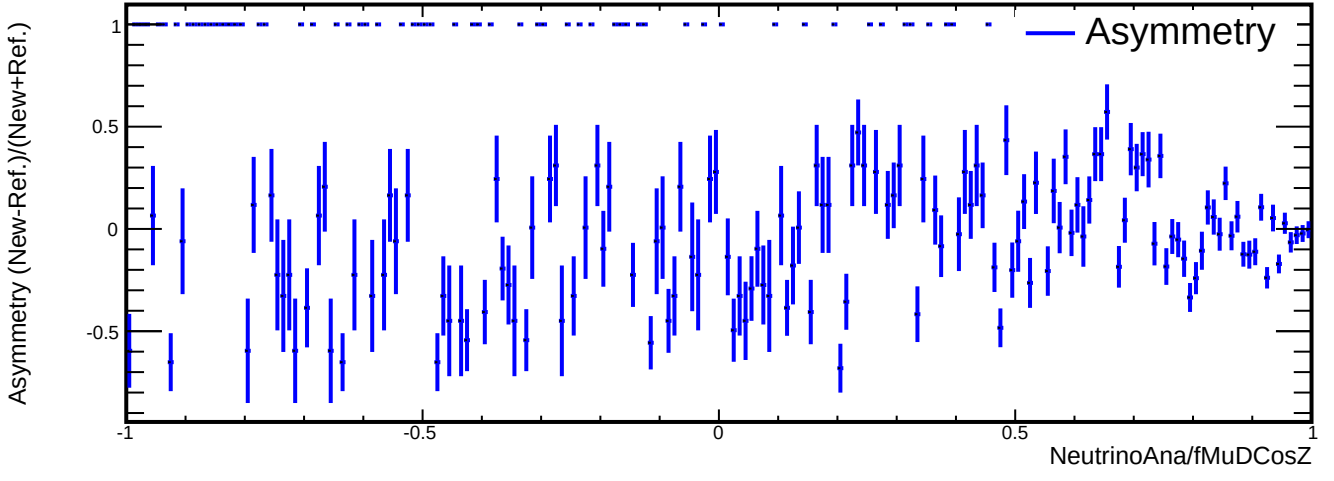

KS 0.00882798, chi2 1.10168e-26
500
400
300
200
100
0
0
10
20
30
40
50
NeutrinoAna/fMuMomentum
2012-06-02
2012-06-03

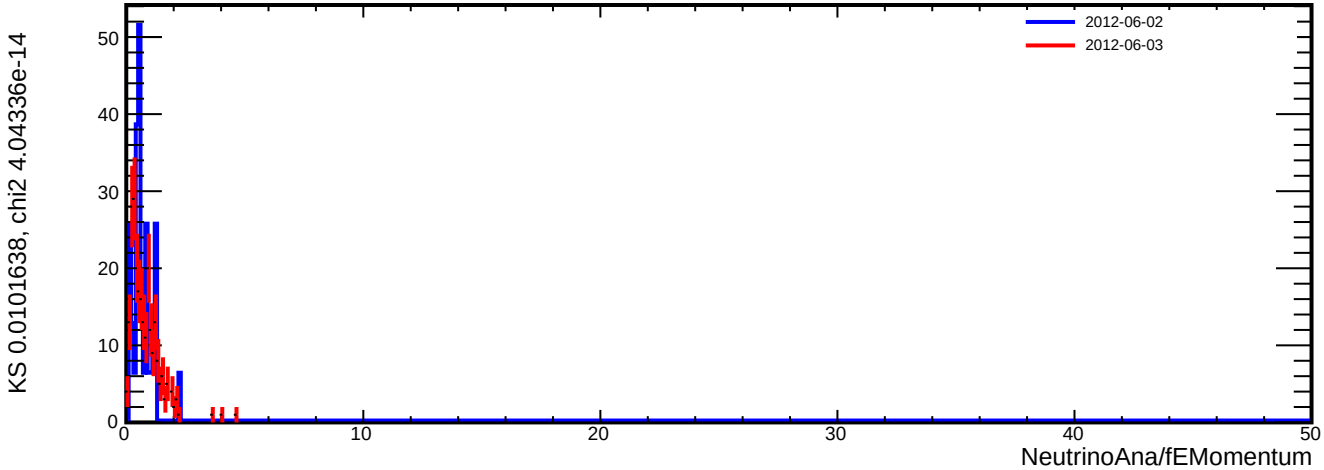

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
10
20
30
40
50
NeutrinoAna/fMuMomentum
Asymmetry

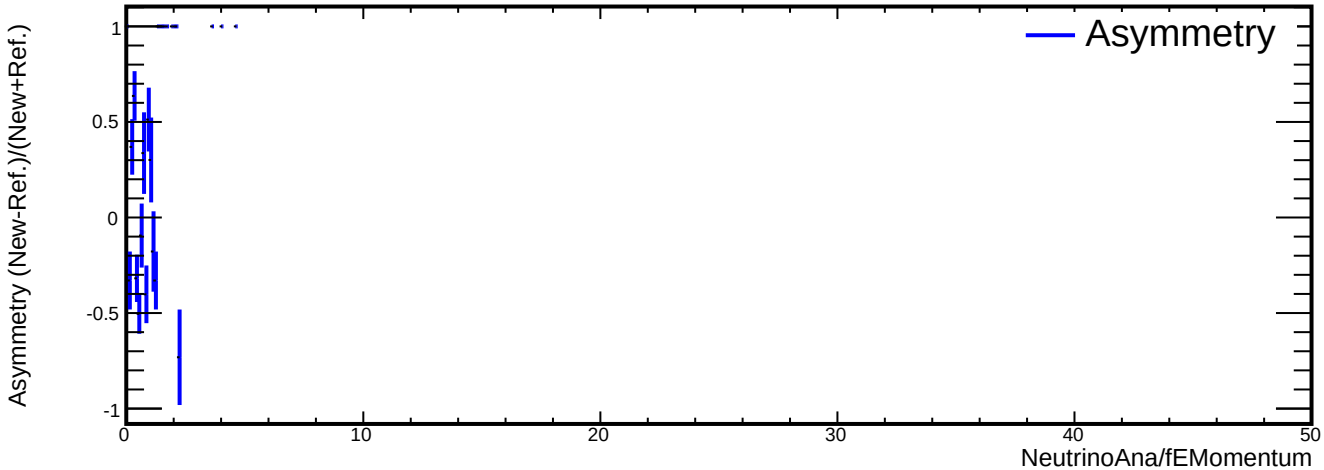

KS 0.00741407, chi2 2.1366e-100
2012-06-02
2012-06-03
NeutrinoAna/fMuDCosX
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fMuDCosX

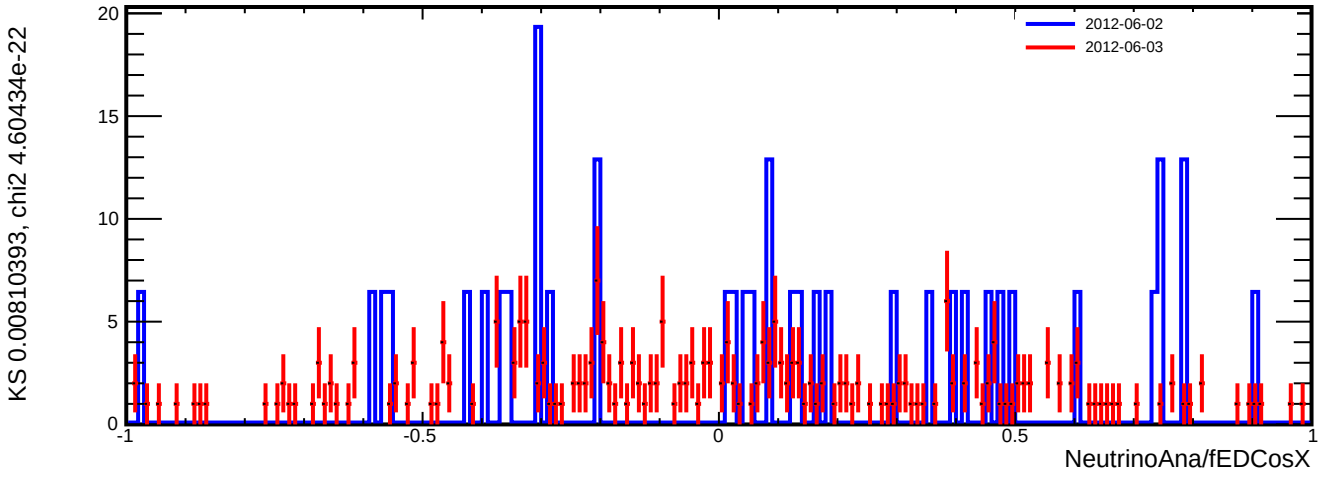

KS 3.7562e-07, chi2 1.36096e-75
2012-06-02
2012-06-03
NeutrinoAna/fMuDCosY
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fMuDCosY

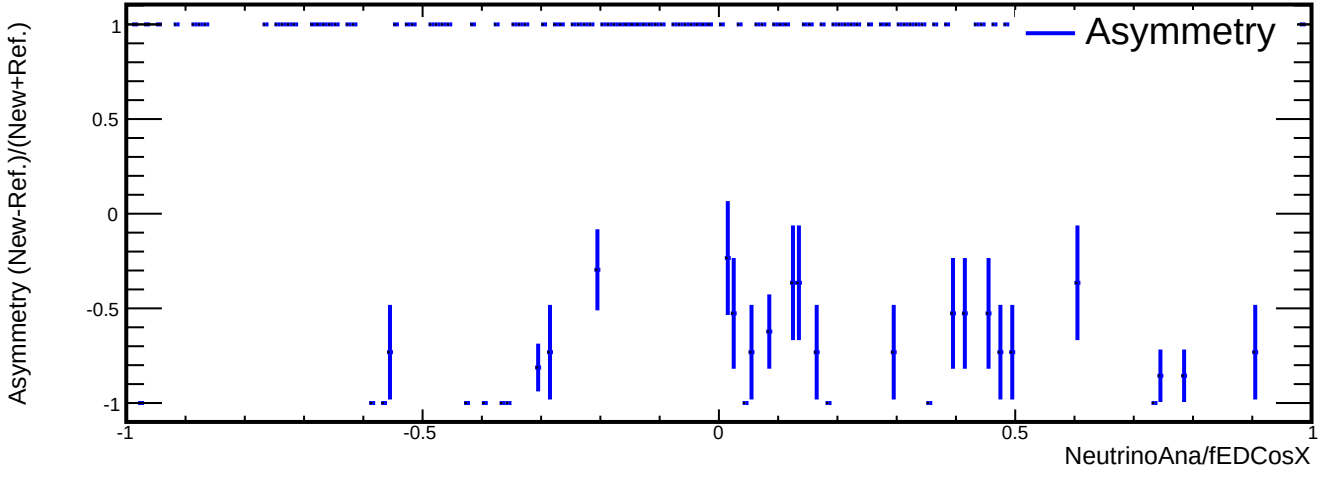

KS 2.79511e-11, chi2 2.27745e-102
2012-06-02
2012-06-03
300
200
100
0
-1
-0.5
0
0.5
1
NeutrinoAna/fMuDCosZ

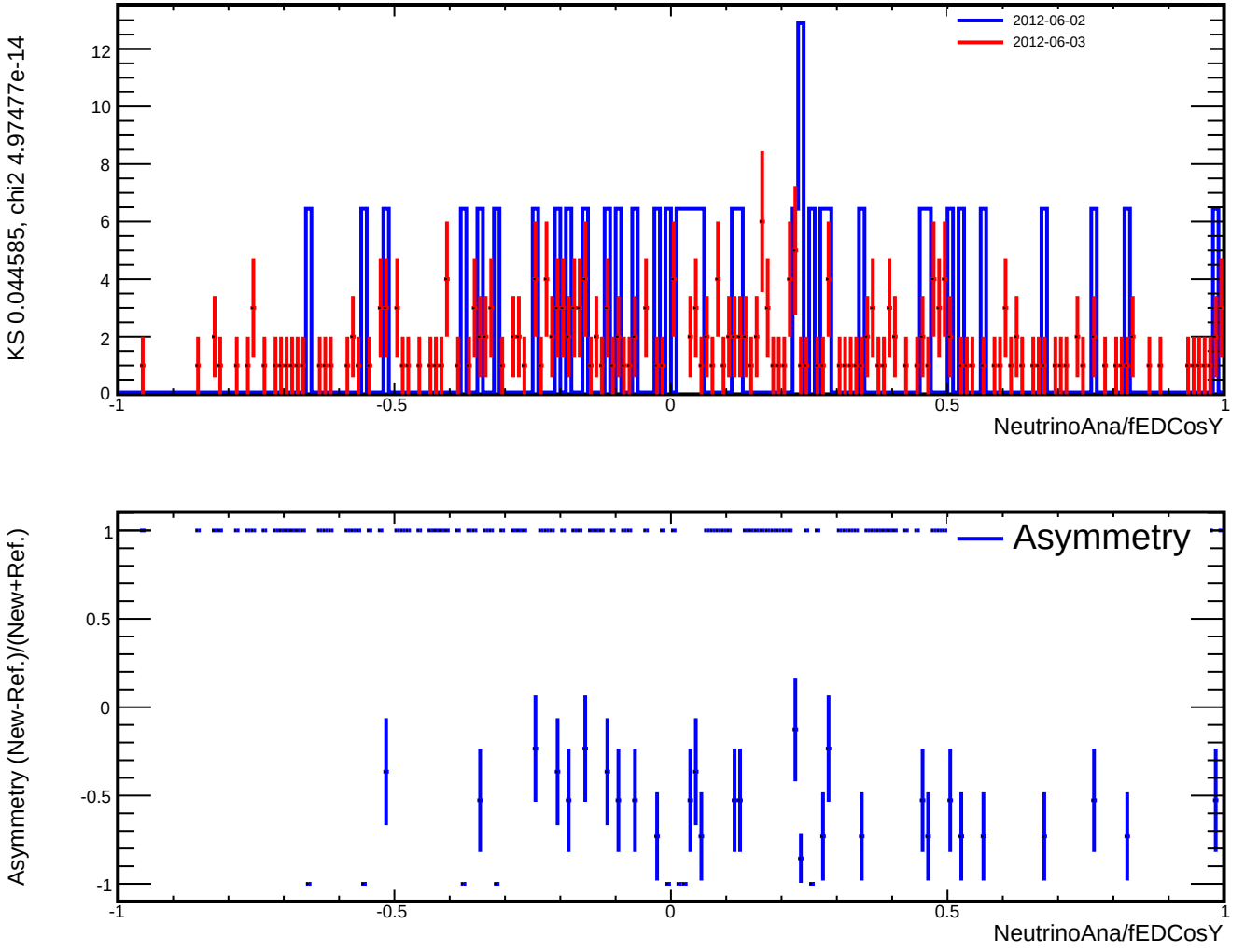

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-0.5
0
0.5
1
NeutrinoAna/fMuDCosZ

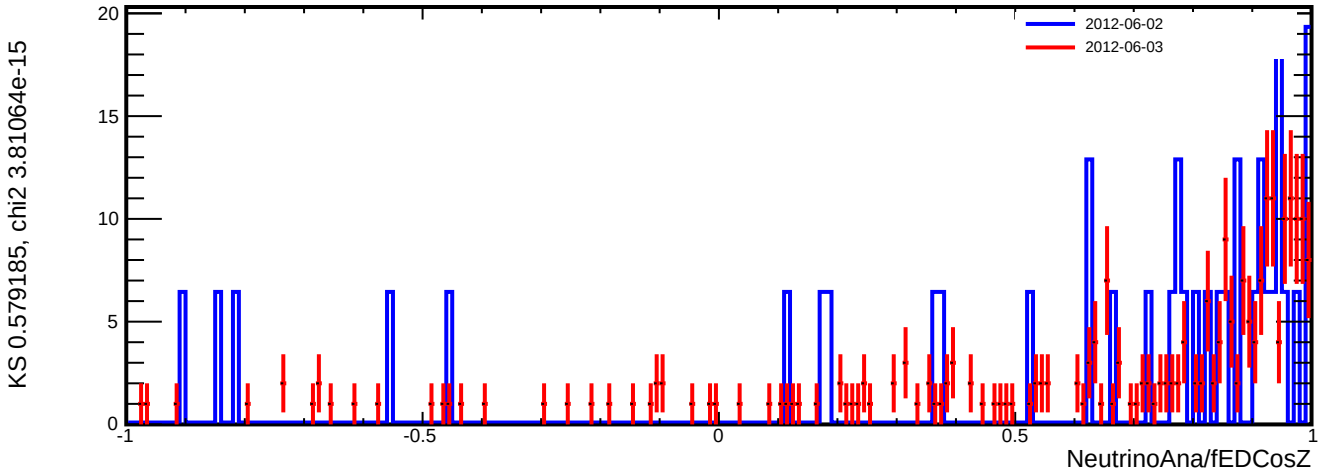

KS 0.0101638, chi2 4.04336e-14
2012-06-02
2012-06-03
0
10
20
30
40
50
NeutrinoAna/fEMomentum

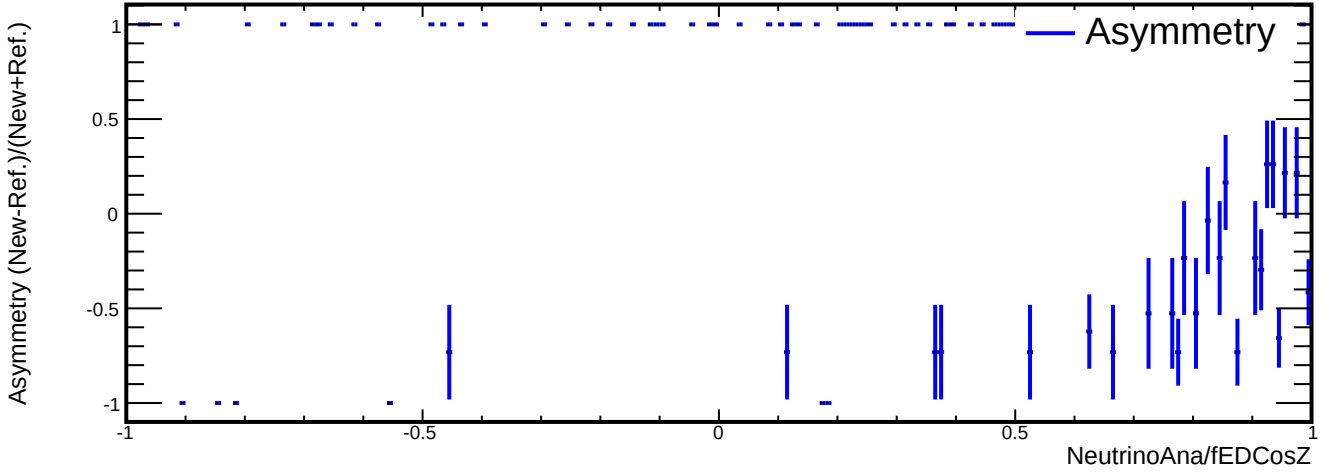

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
10
20
30
40
50
NeutrinoAna/fEMomentum

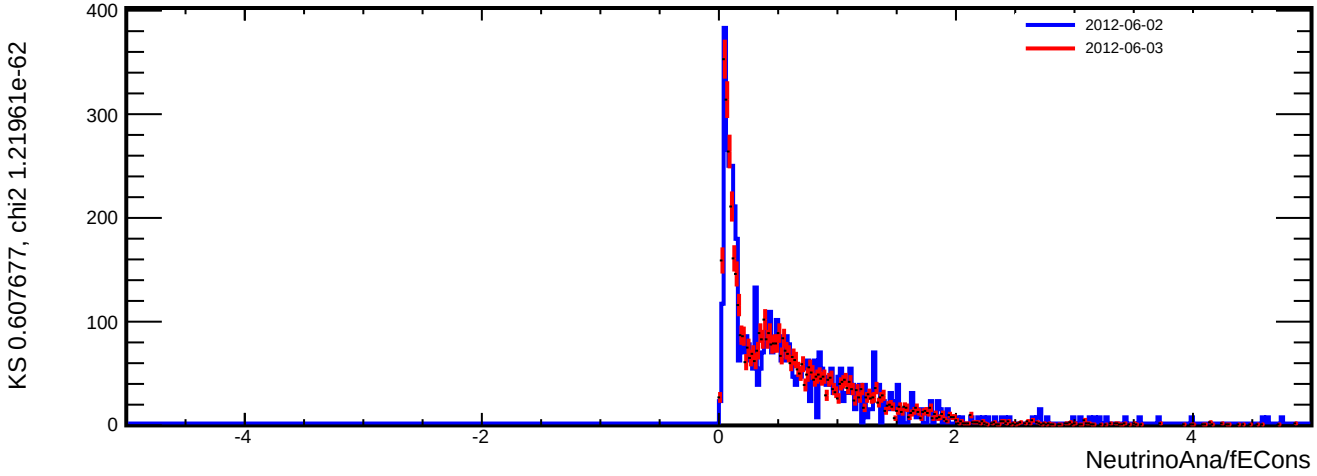

KS 0.00810393, chi2 4.60434e-22
2012-06-02
2012-06-03
NeutrinoAna/fEDCosX

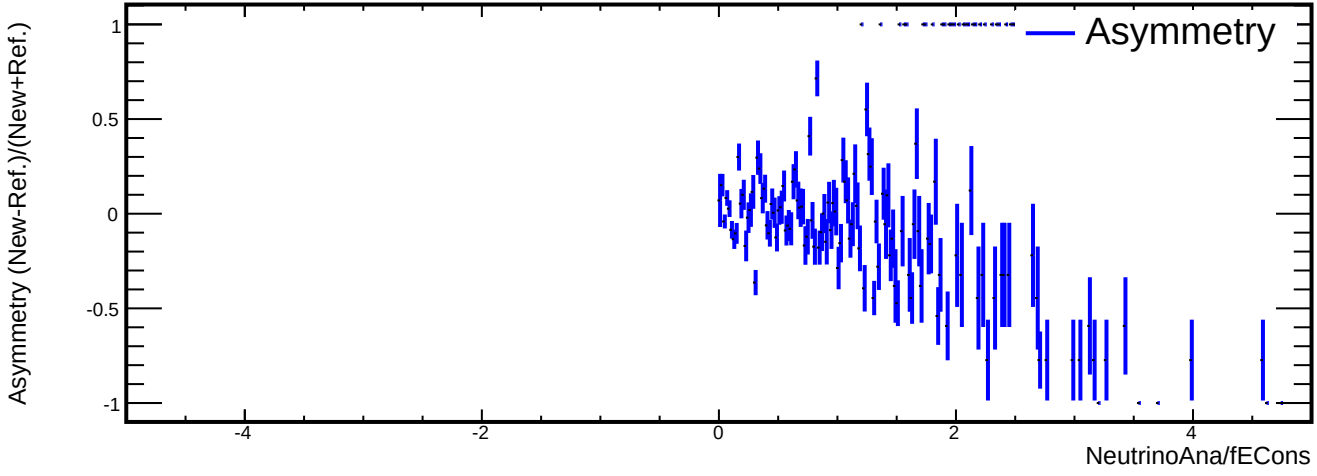

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEDCosX

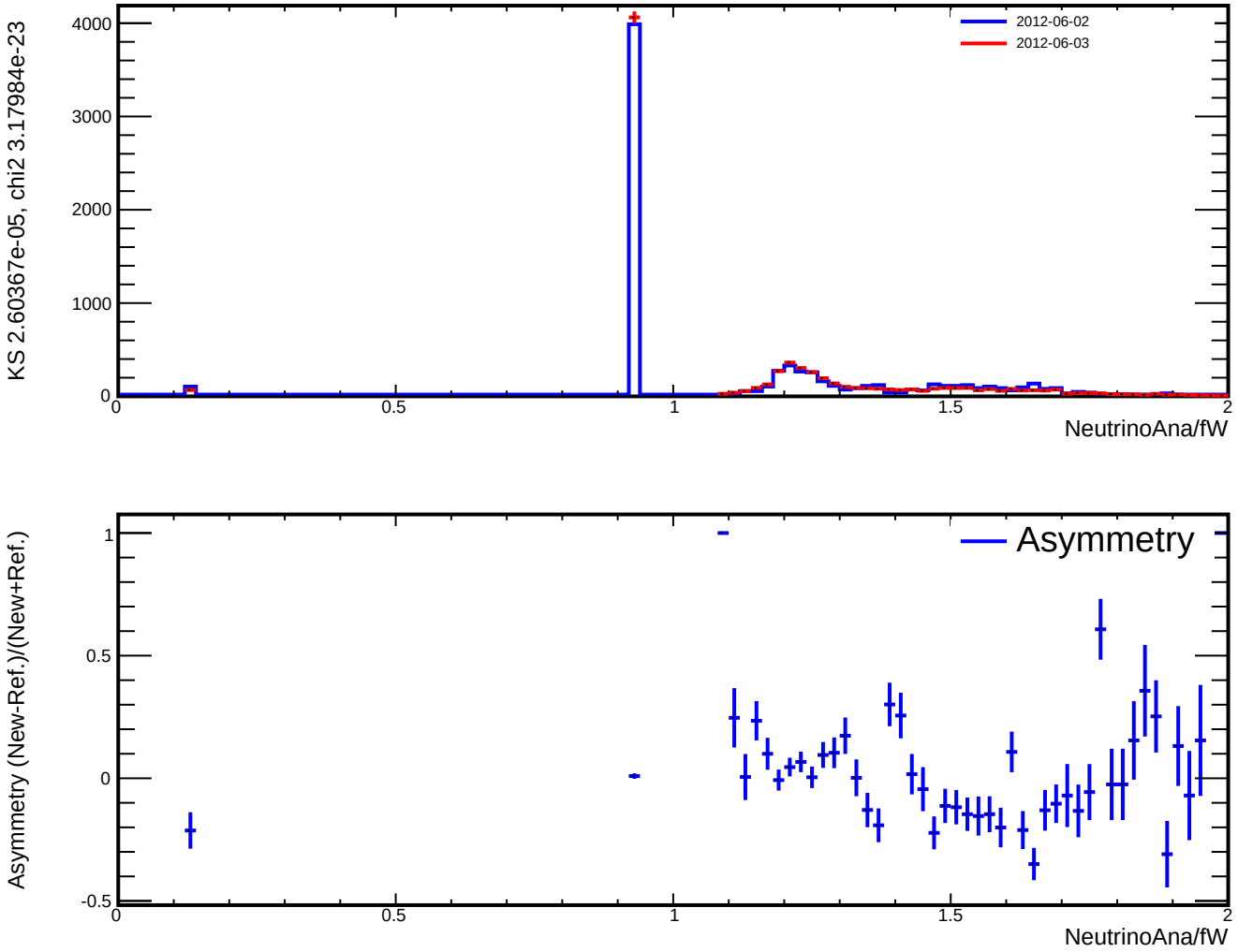

KS 0.044585, chi2 4.97477e-14
2012-06-02
2012-06-03
NeutrinoAna/fEDCosY
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEDCosY

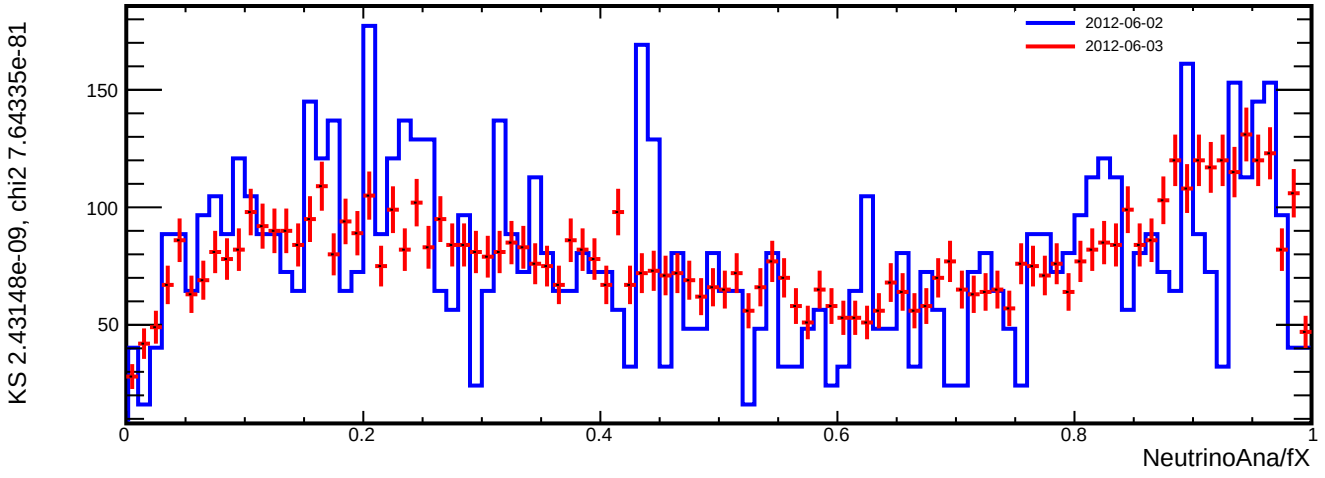

KS 0.579185, chi2 3.81064e-15
2012-06-02
2012-06-03
NeutrinoAna/fEDCosZ

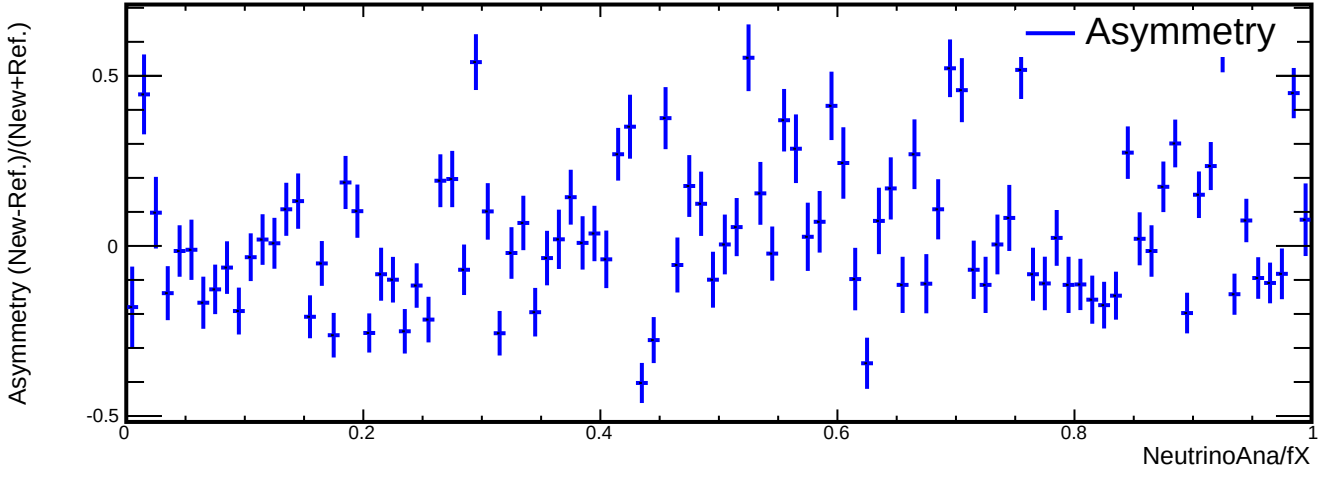

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEDCosZ

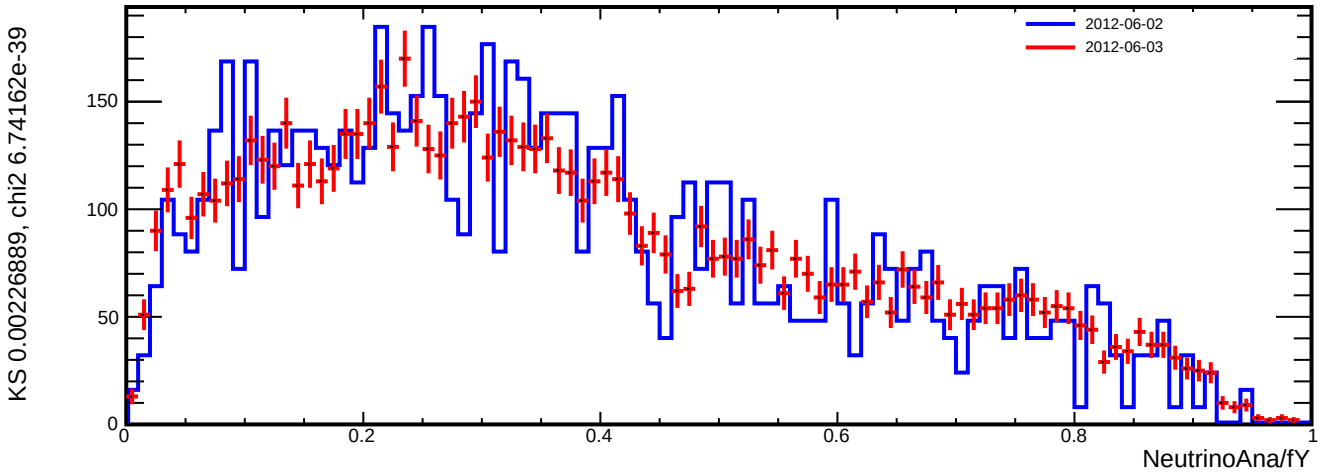

KS 0.607677, chi2 1.21961e-62
400
300
200
100
0
-4
-2
0
2
4
NeutrinoAna/fECons
2012-06-02
2012-06-03

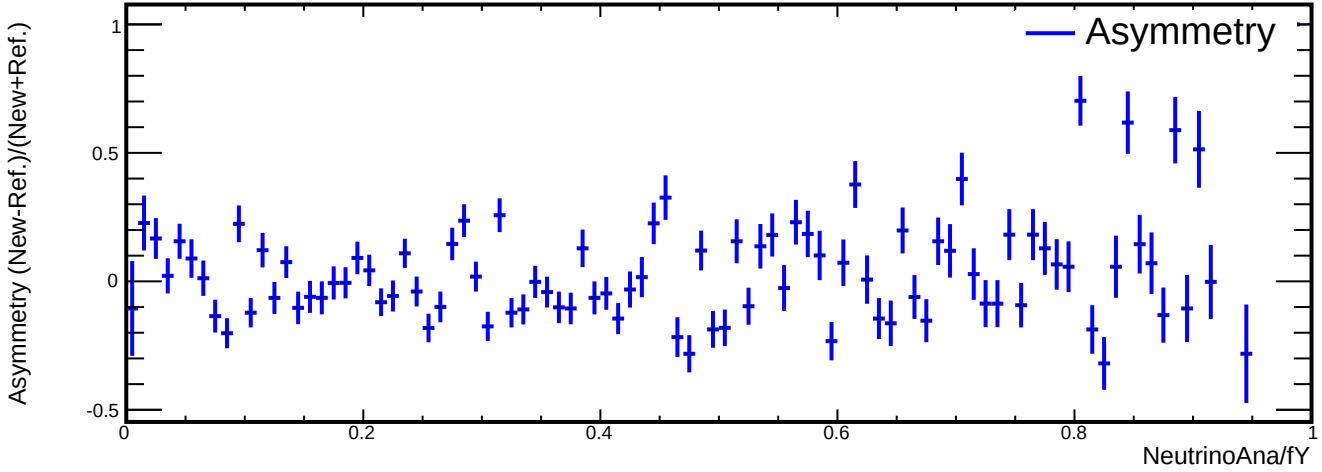

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-4
-2
0
2
4
NeutrinoAna/fECons
Asymmetry

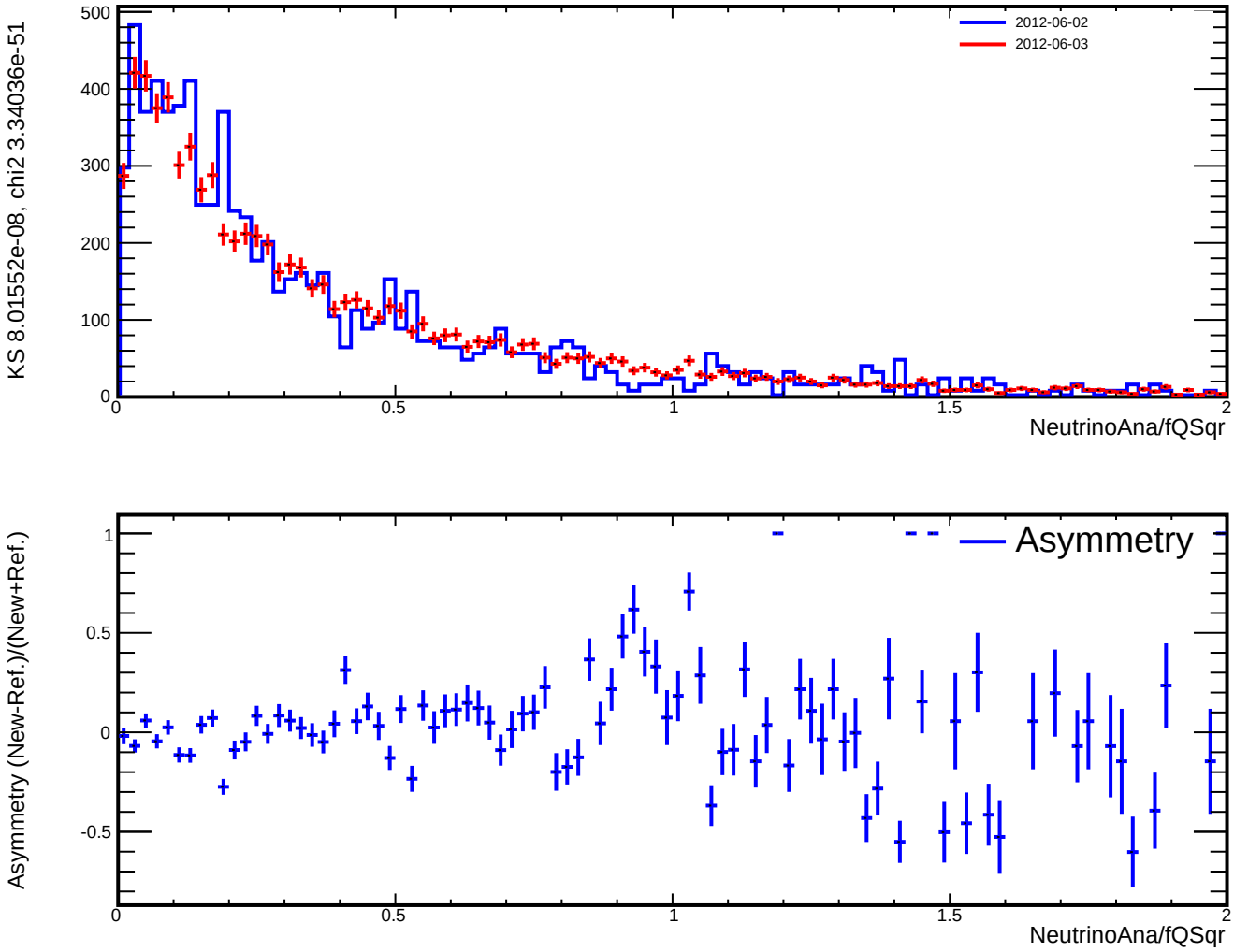

KS 2.60367e-05, chi2 3.17984e-23
2012-06-02
2012-06-03
NeutrinoAna/fW
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fW

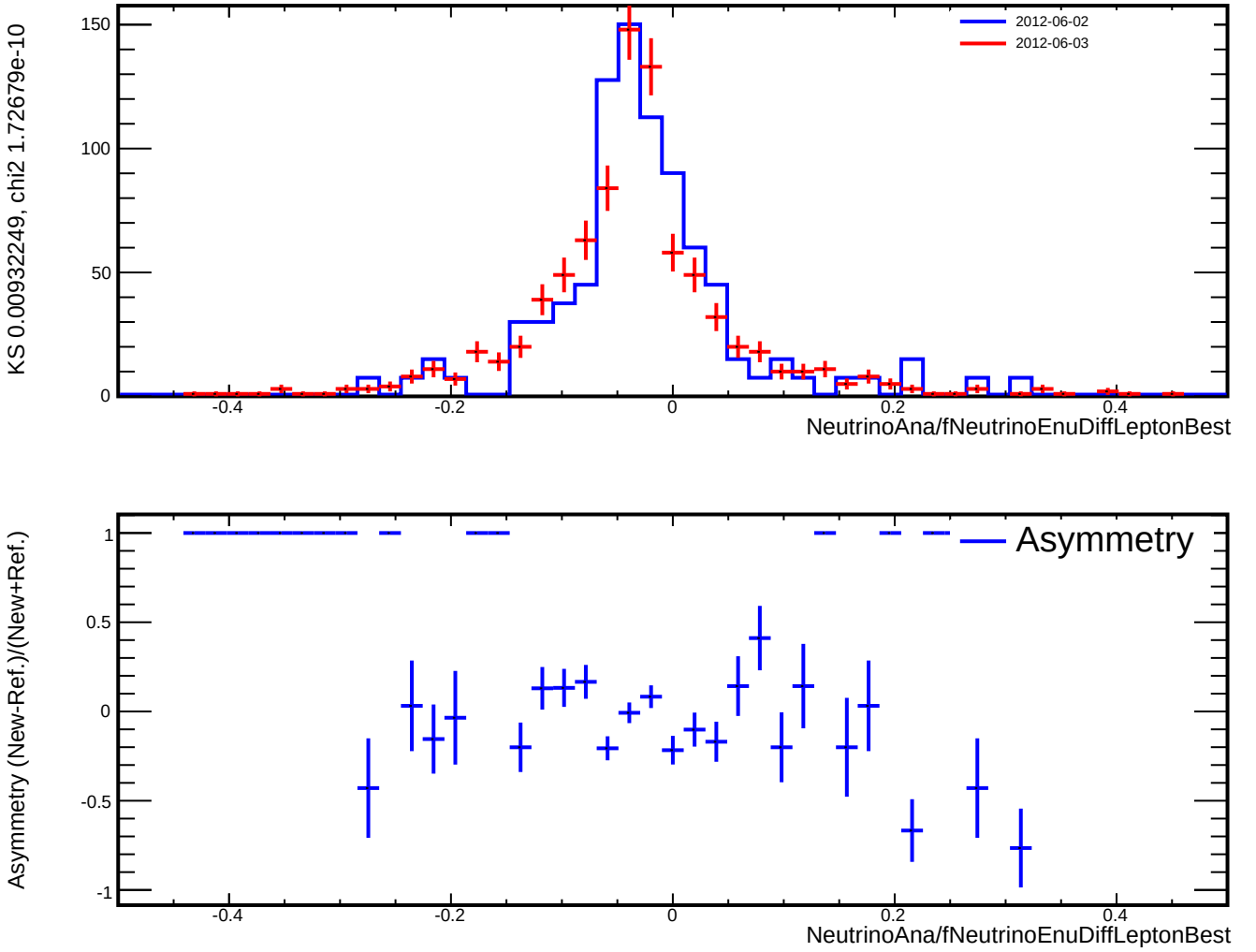

KS 2.43148e-09, chi2 7.64335e-81
2012-06-02
2012-06-03
150
100
50
0
0.2
0.4
0.6
0.8
1
NeutrinoAna/fX

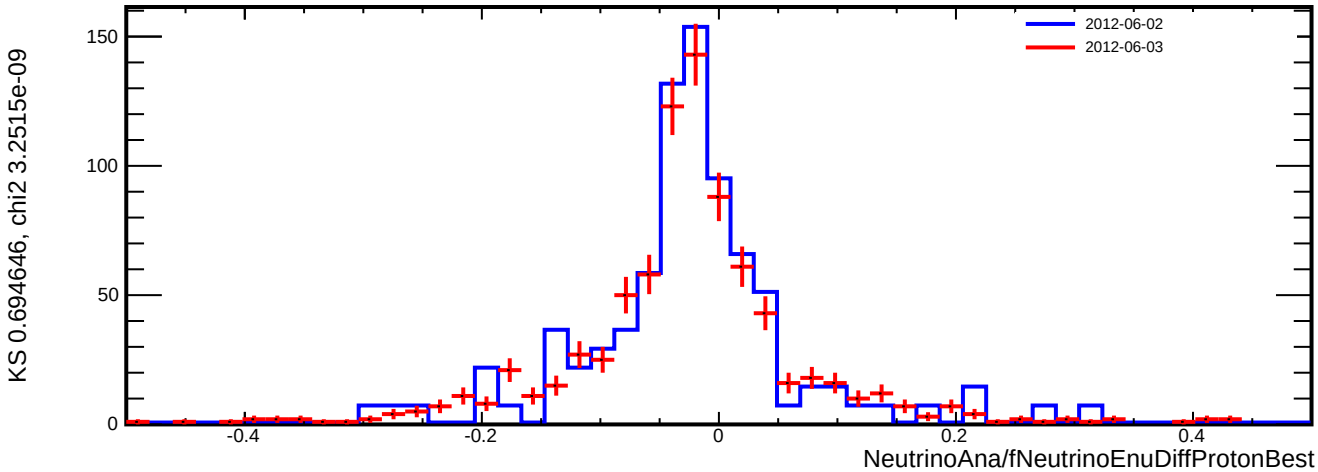

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
0
0.2
0.4
0.6
0.8
1
NeutrinoAna/fX

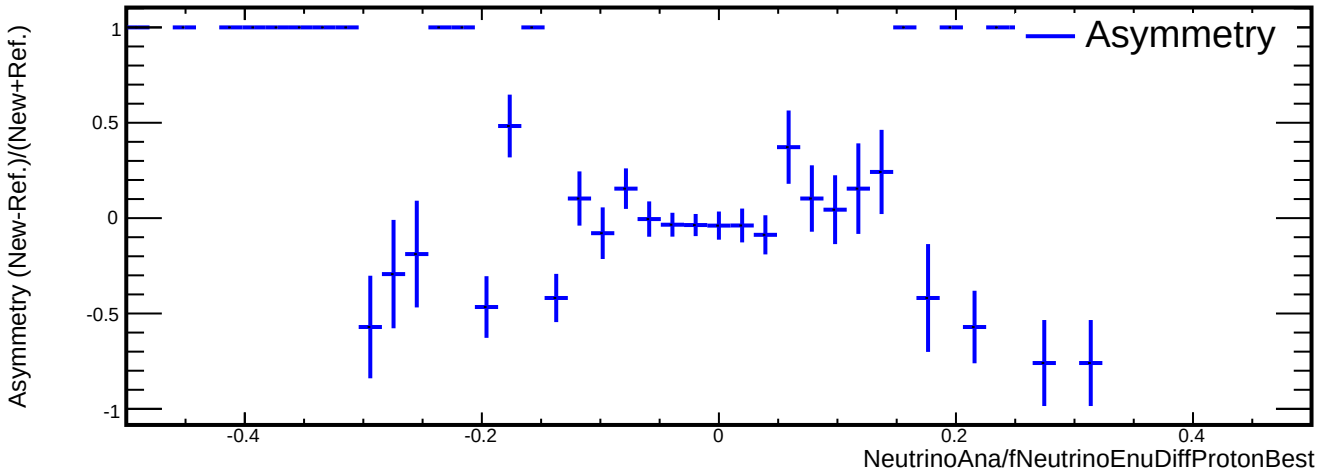

KS 0.00226889, chi2 6.74162e-39
2012-06-02
2012-06-03
150
100
50
0
0
0.2
0.4
0.6
0.8
1
NeutrinoAna/fY

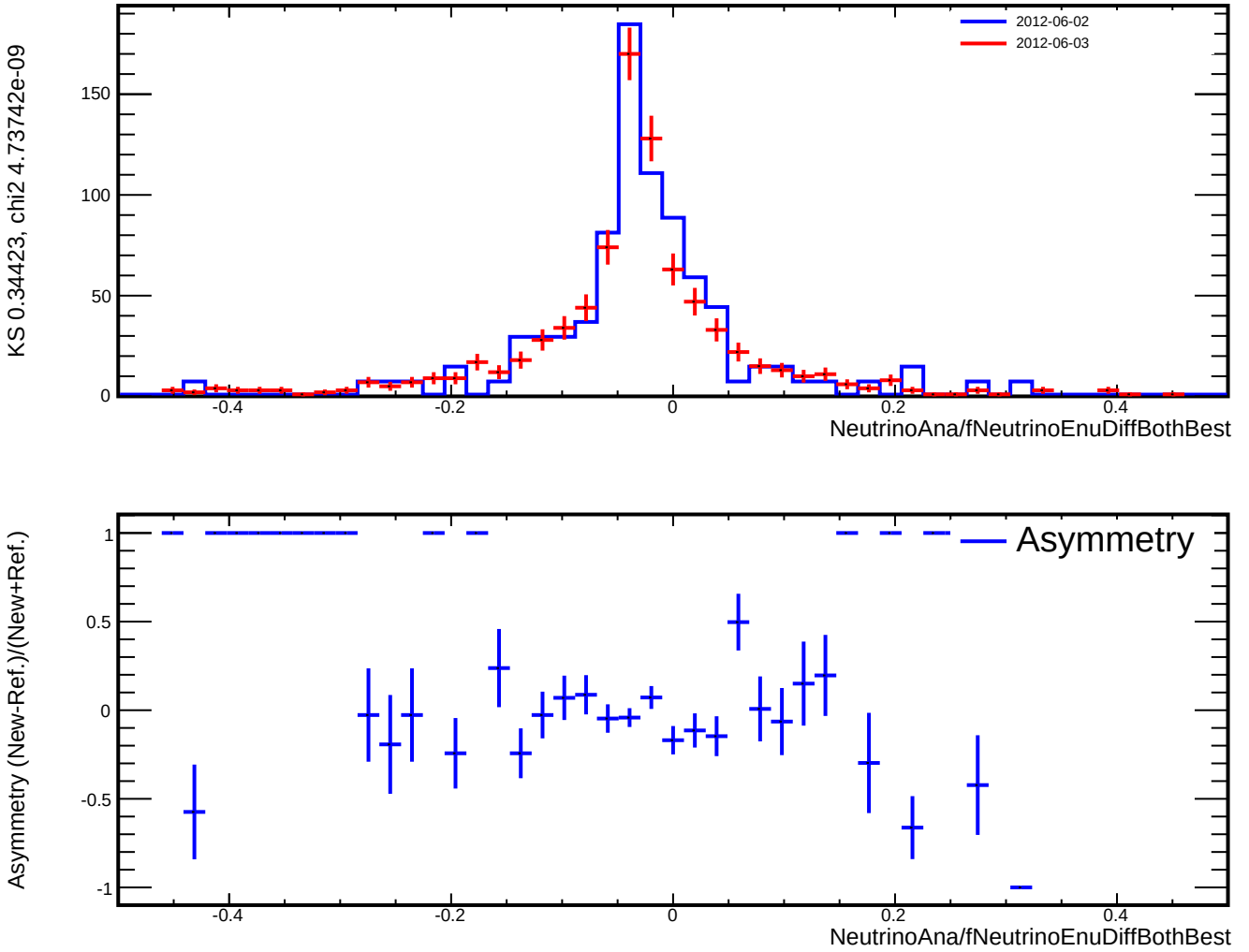

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
0
0.2
0.4
0.6
0.8
1
NeutrinoAna/fY

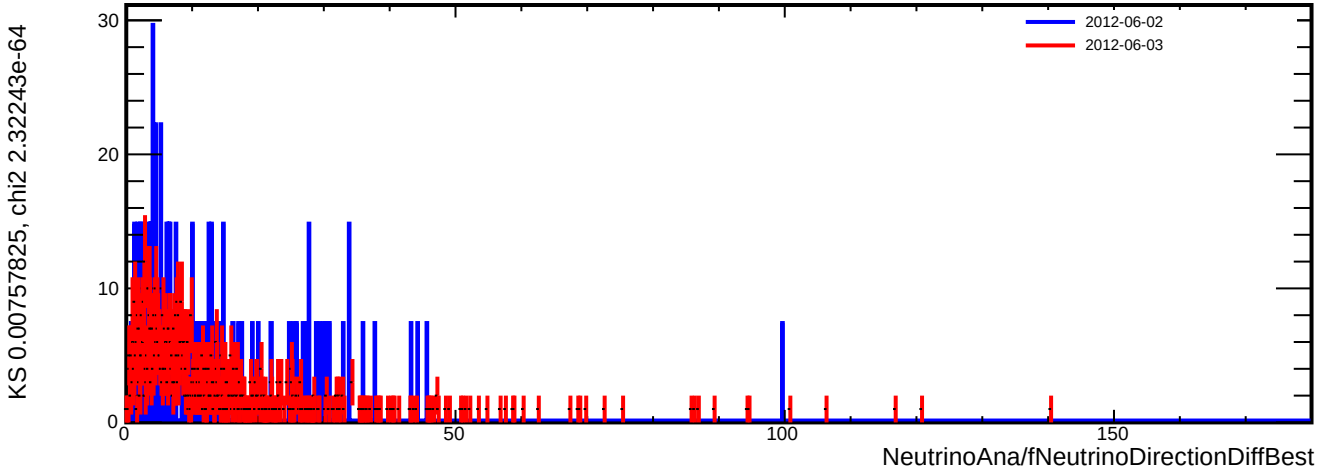

KS 8.01552e-08, chi2 3.34036e-51
2012-06-02
2012-06-03
NeutrinoAna/fQSqr
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fQSqr

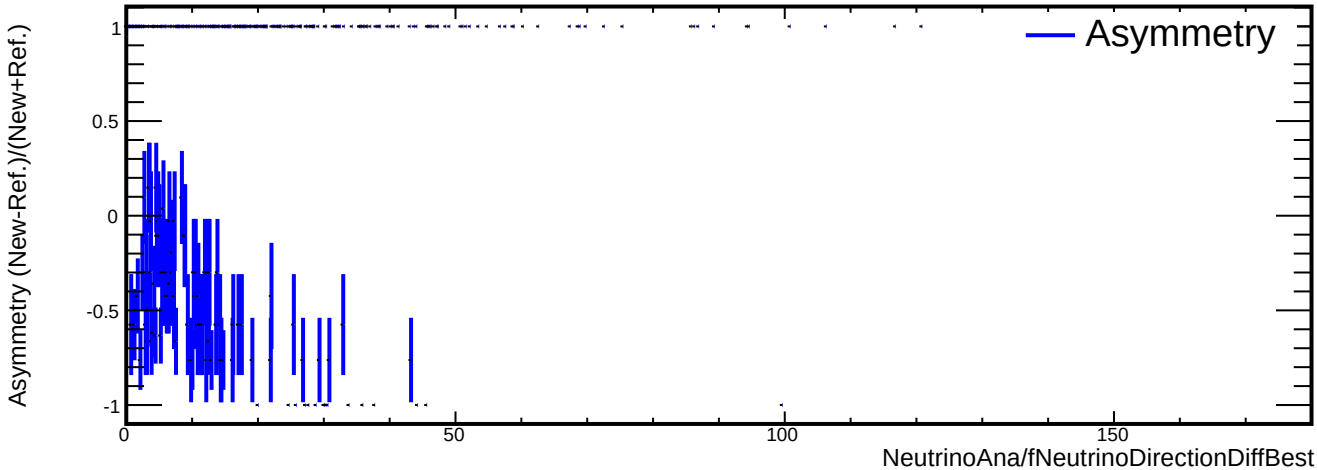

KS 0.00932249, chi2 1.72679e-10
150
100
50
0
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffLeptonBest
2012-06-02
2012-06-03
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
Asymmetry
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffLeptonBest

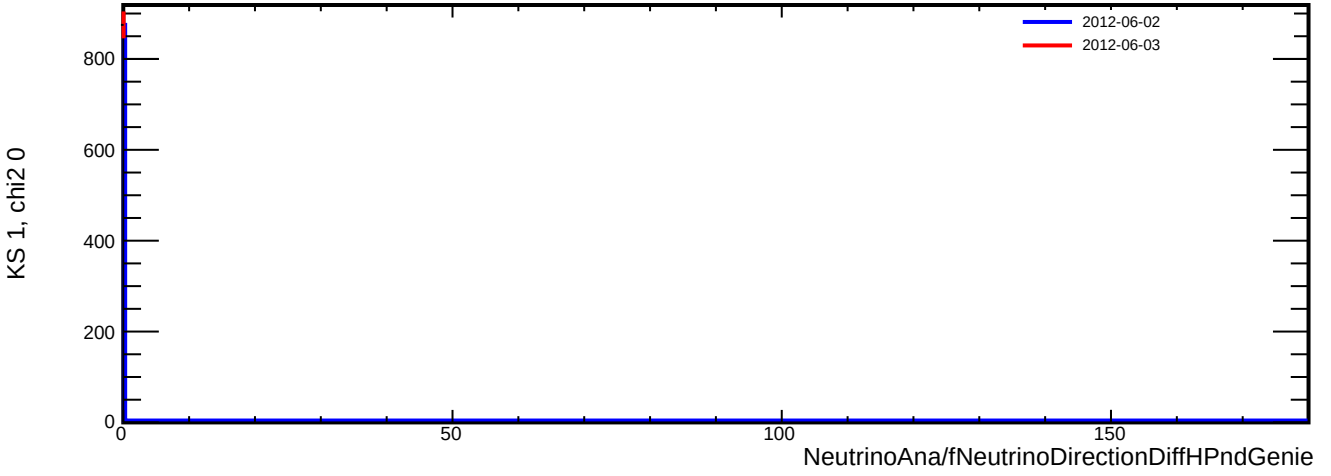

KS 0.694646, chi2 3.2515e-09
150
100
50
0
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffProtonBest
2012-06-02
2012-06-03

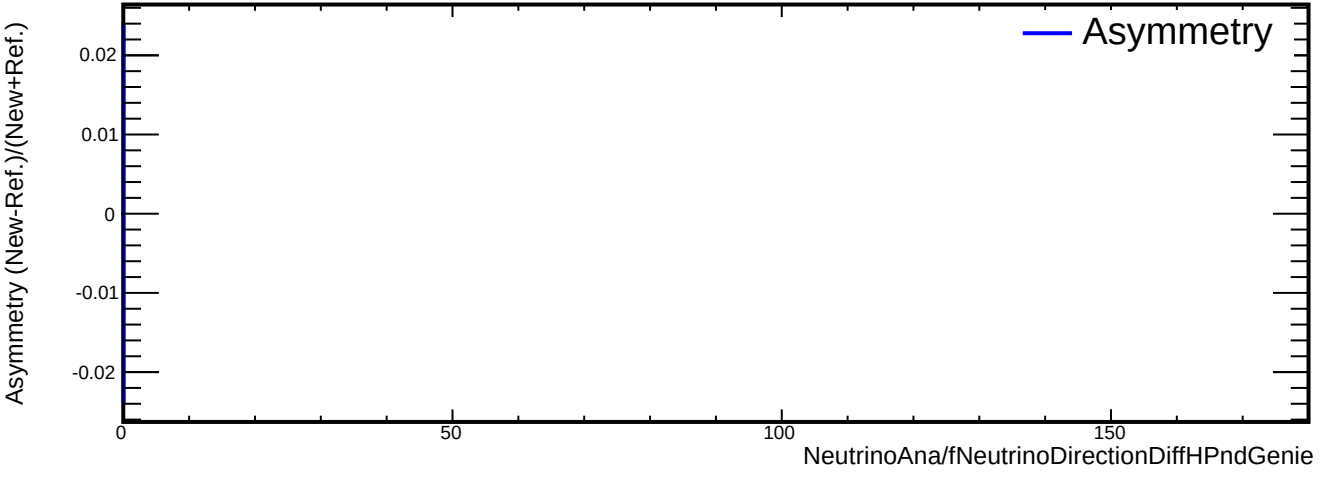

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffProtonBest
Asymmetry

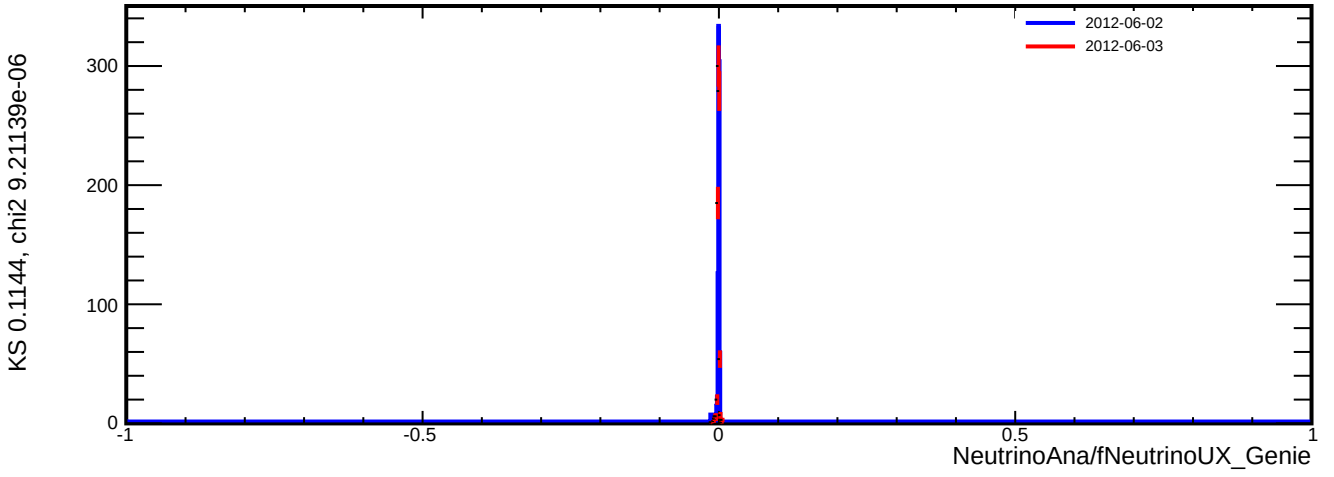

KS 0.34423, chi2 4.73742e-09
2012-06-02
2012-06-03
150
100
50
0
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffBothBest
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffBothBest

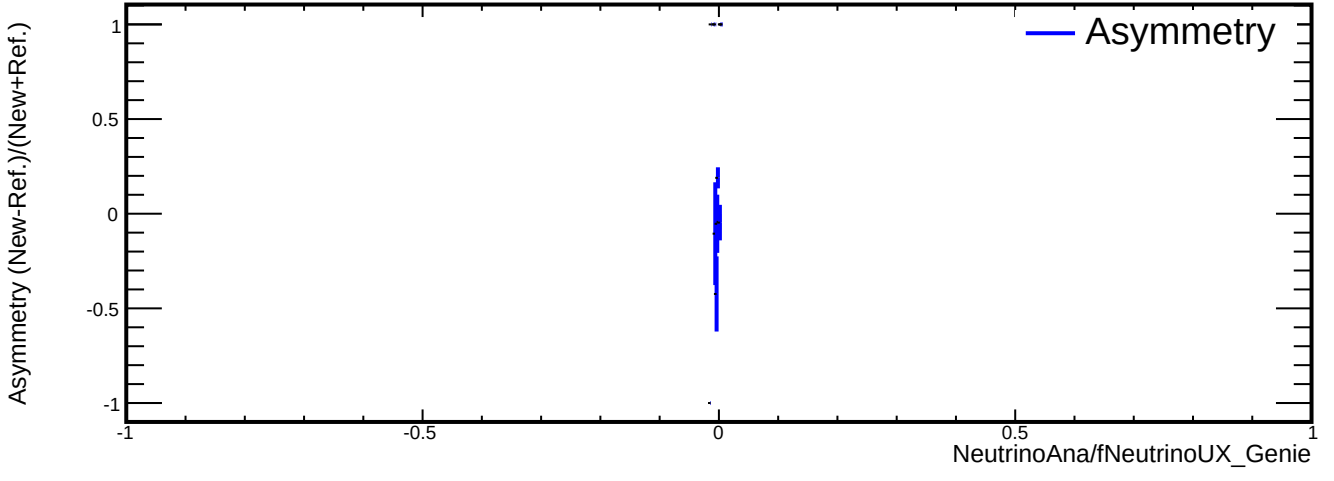

KS 0.00757825, chi2 2.32243e-64
2012-06-02
2012-06-03
30
20
10
0
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffBest

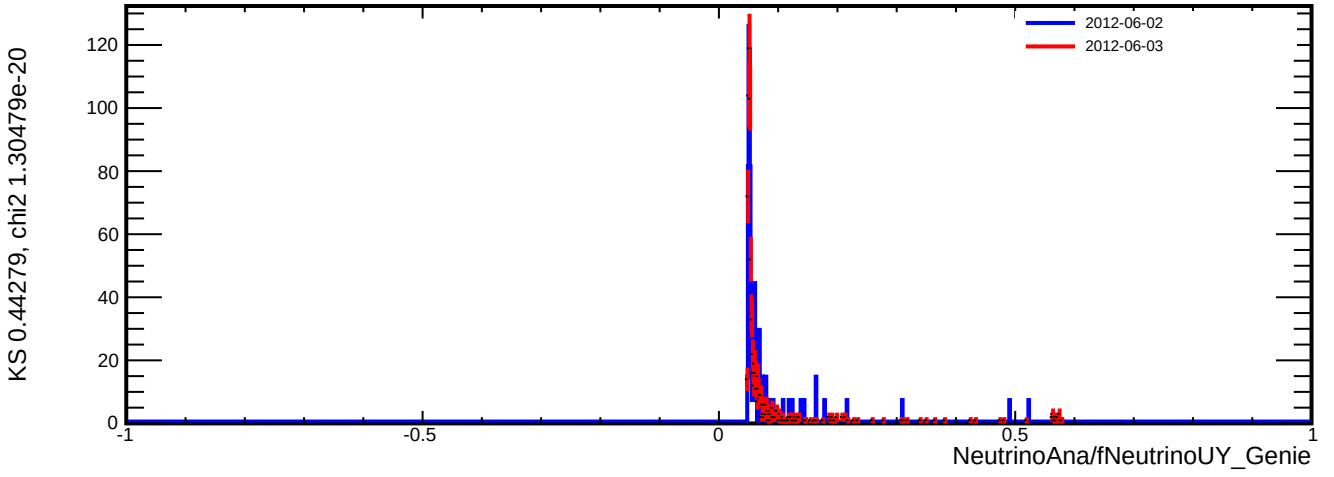

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffBest

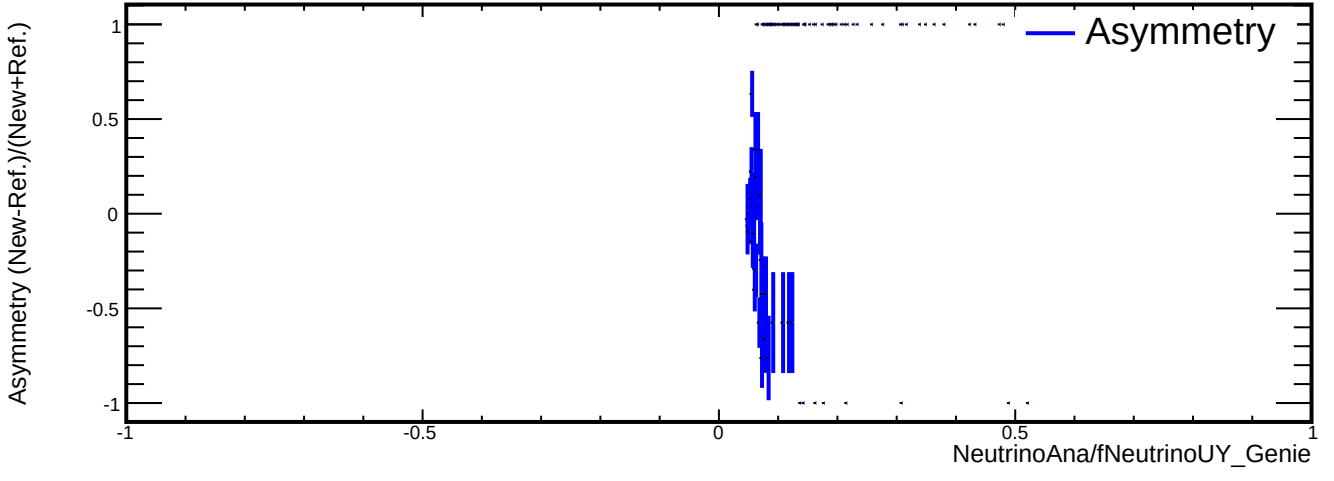

2012-06-02
2012-06-03
KS 1, chi2 0
800
600
400
200
0
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie

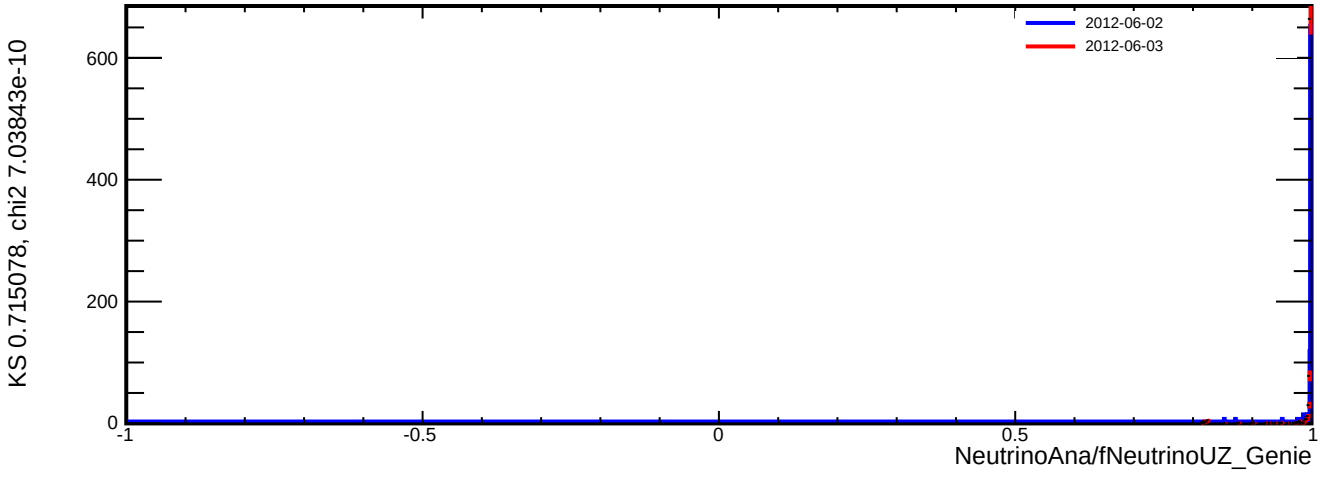

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0.02
0.01
0
-0.01
-0.02
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie

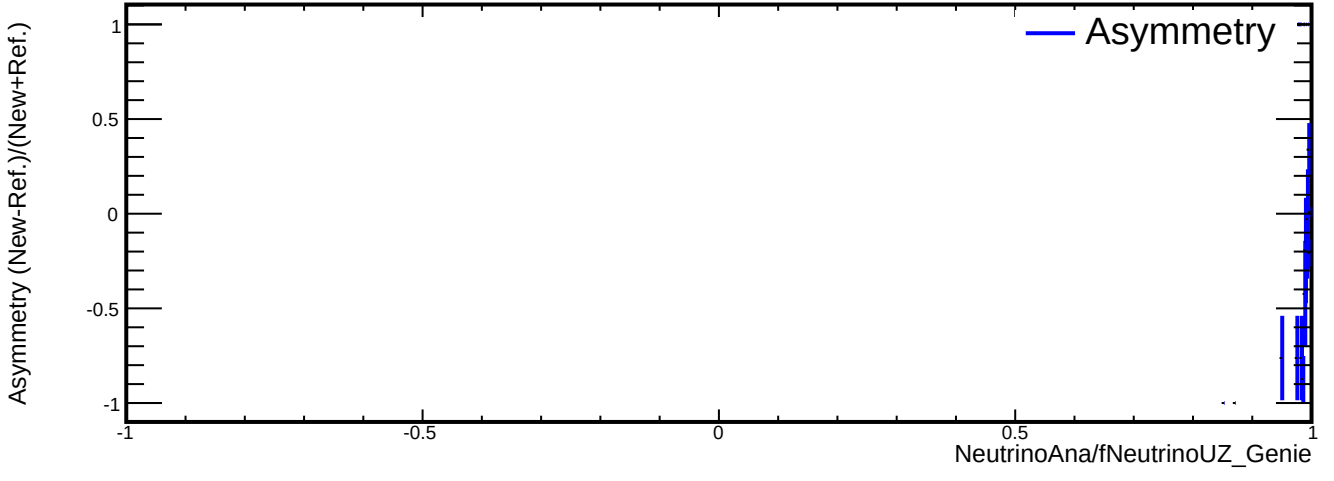

KS 0.1144, chi2 9.21139e-06
2012-06-02
2012-06-03
300
200
100
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_Genie

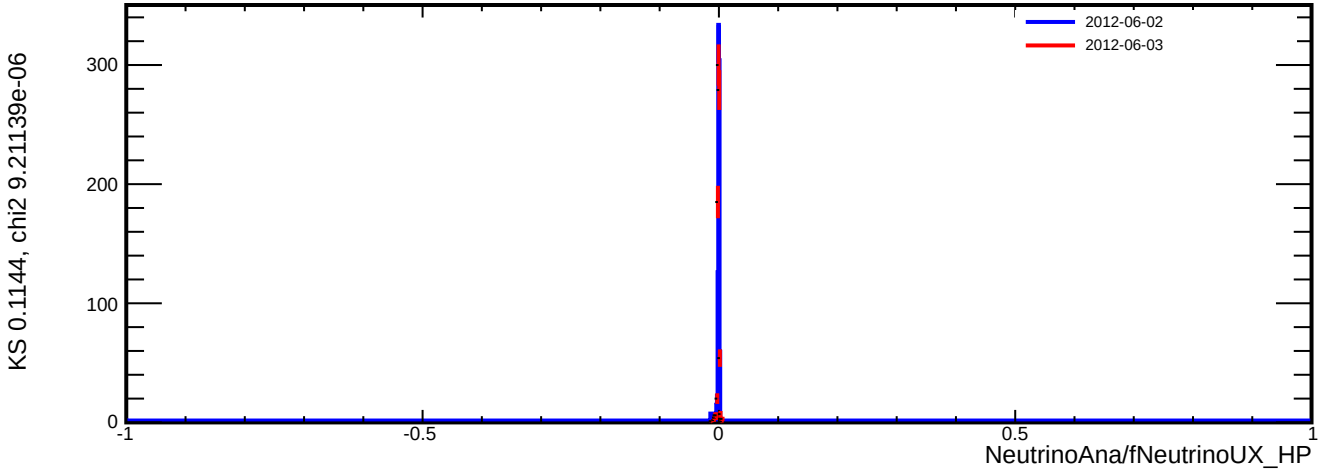

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_Genie

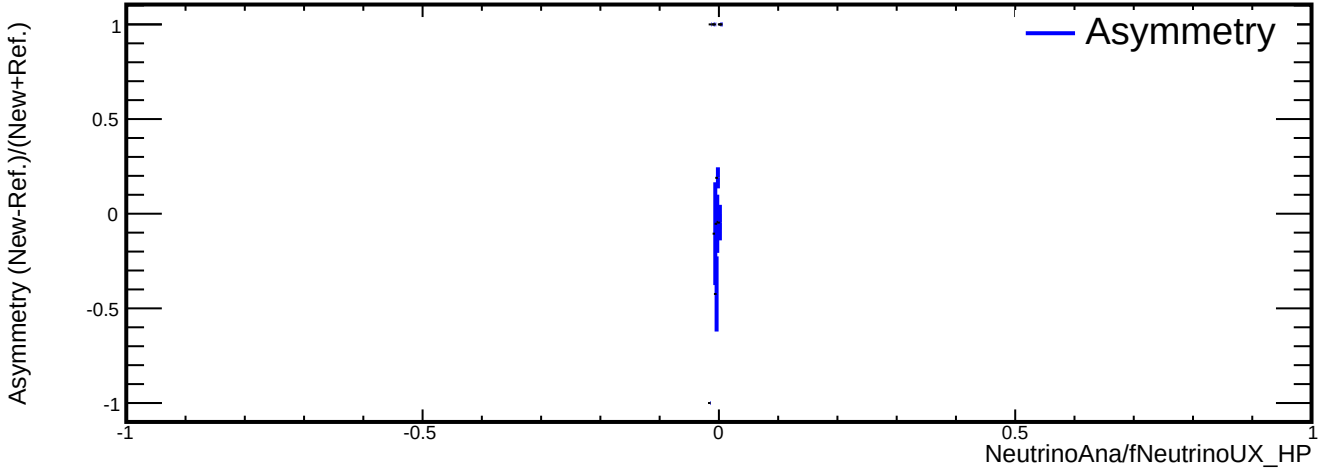

KS 0.44279, chi2 1.30479e-20
2012-06-02
2012-06-03
NeutrinoAna/fNeutrinoUY_Genie

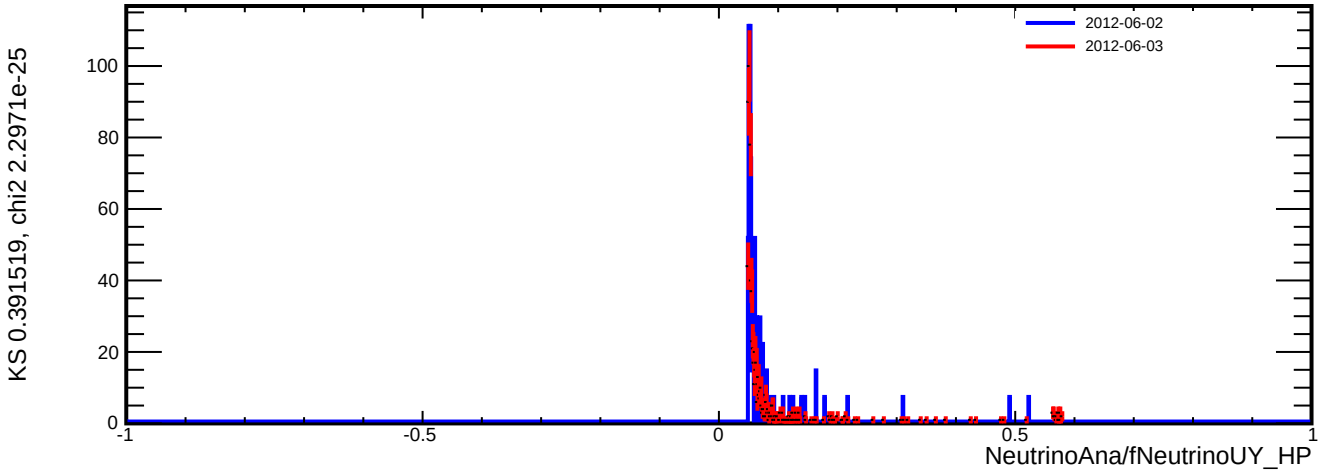

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fNeutrinoUY_Genie

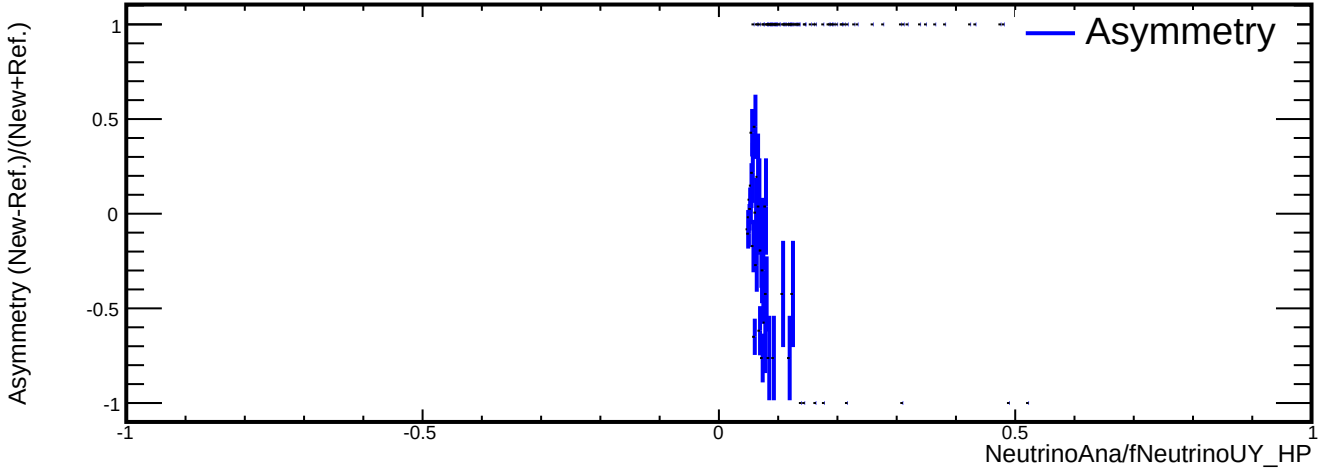

KS 0.715078, chi2 7.03843e-10
600
400
200
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_Genie
2012-06-02
2012-06-03

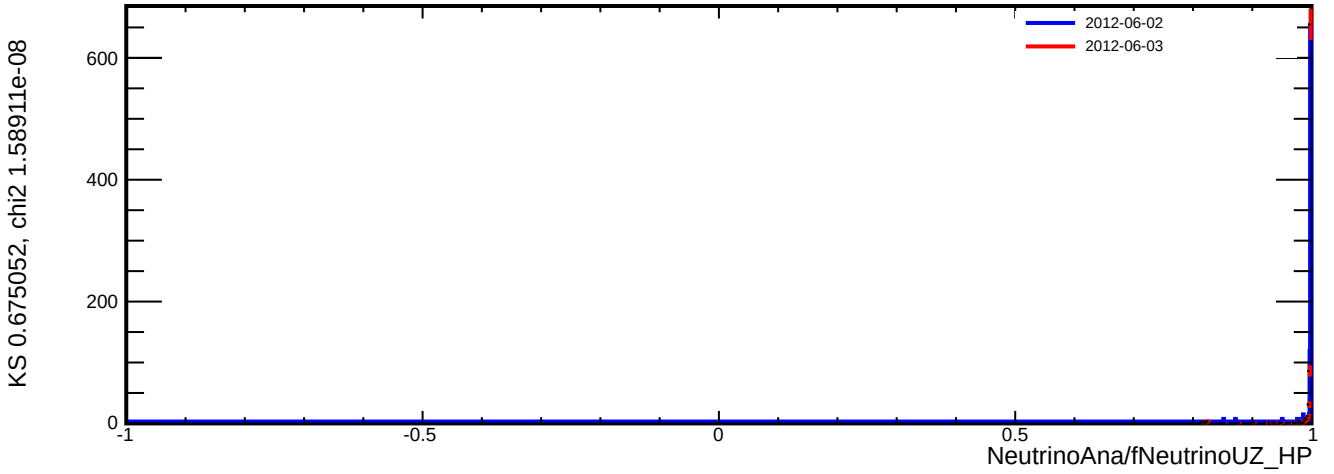

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_Genie
Asymmetry

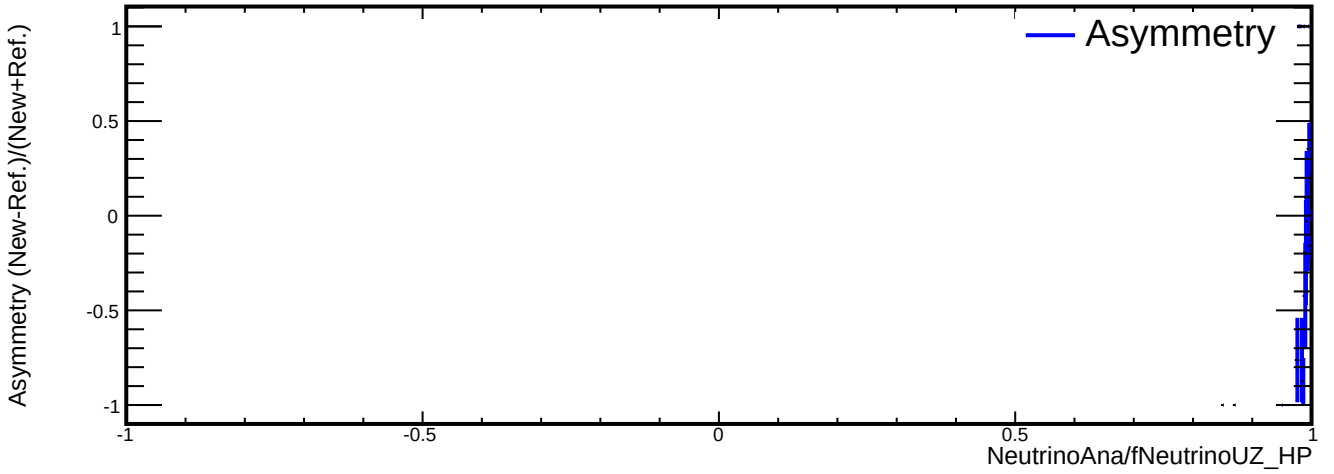

KS 0.1144, chi2 9.21139e-06
2012-06-02
2012-06-03
300
200
100
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_HP

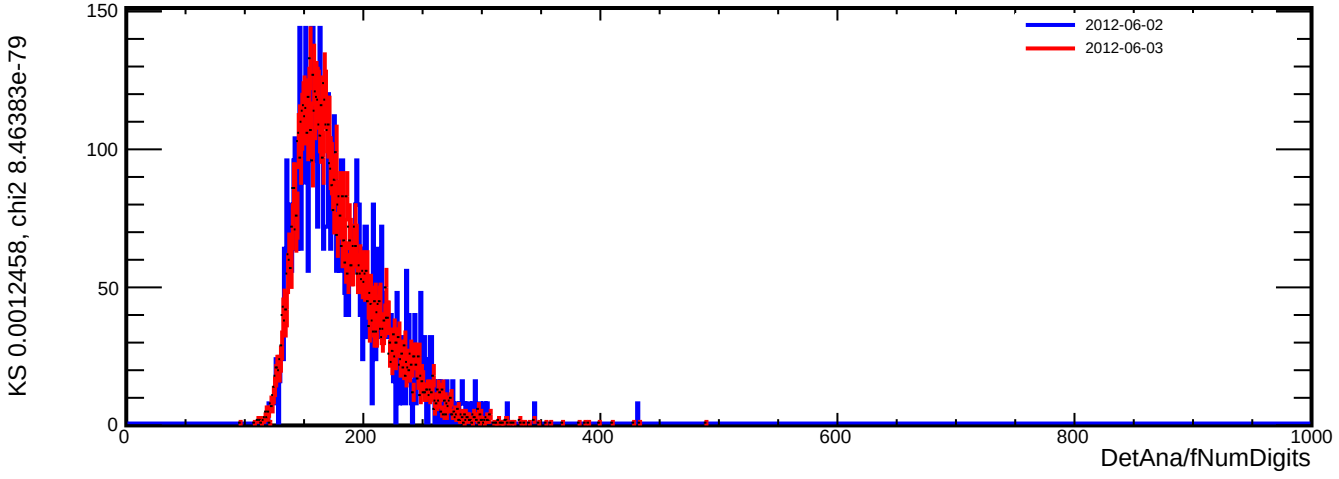

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_HP

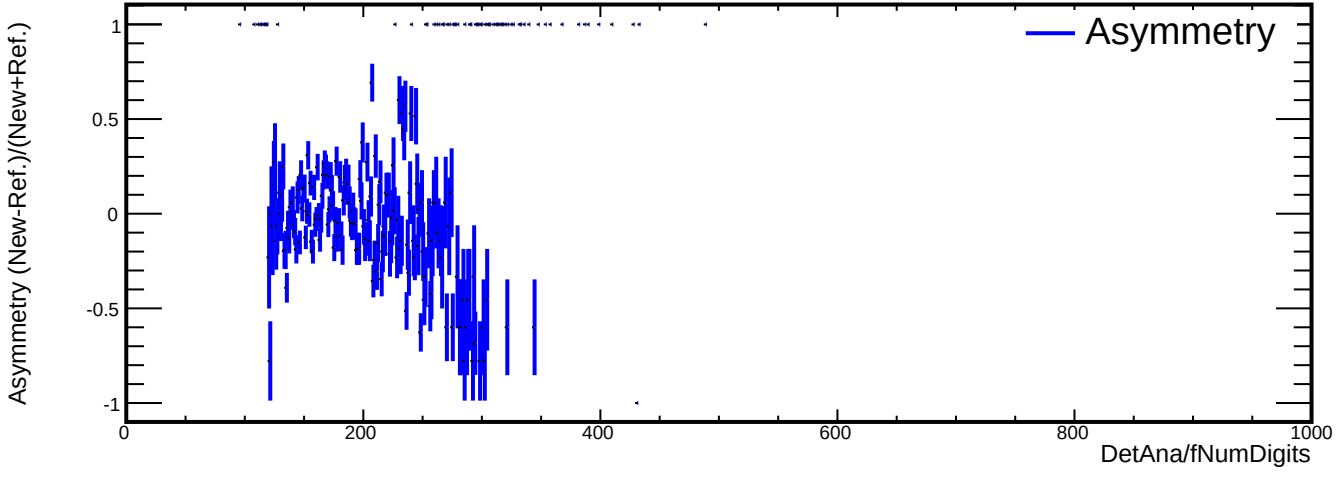

KS 0.391519, chi2 2.2971e-25
2012-06-02
2012-06-03
100
80
60
40
20
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUY_HP

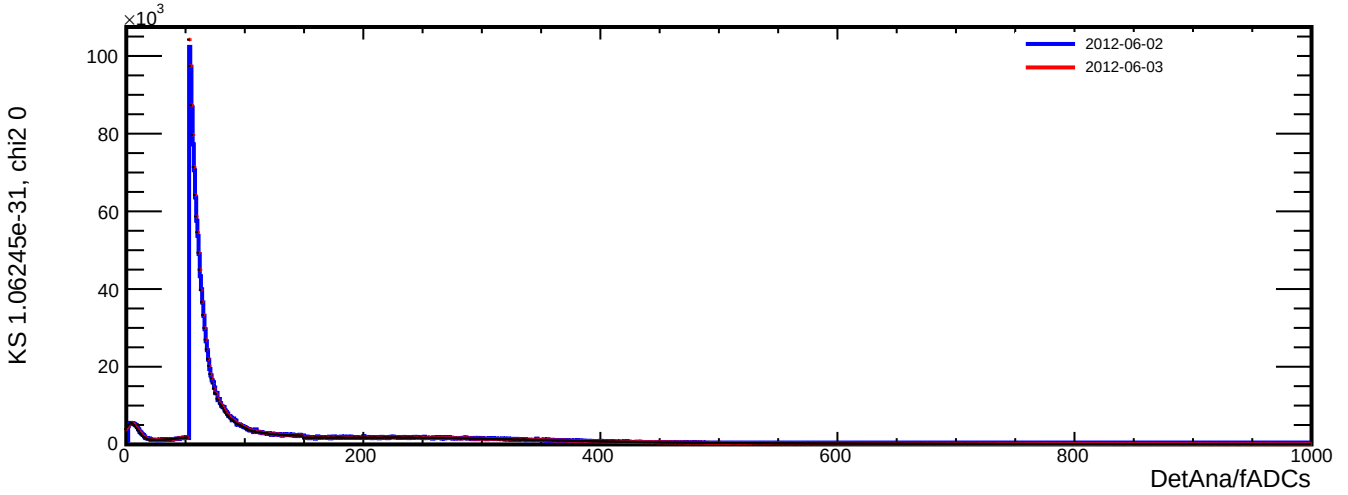

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUY_HP

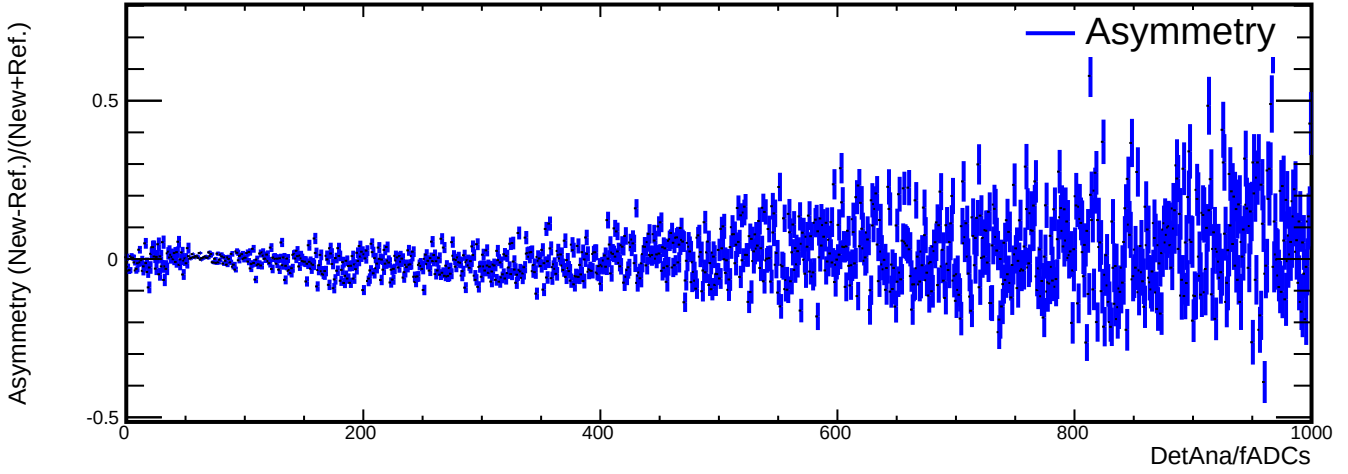

KS 0.675052, chi2 1.58911e-08
2012-06-02
2012-06-03
600
400
200
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_HP

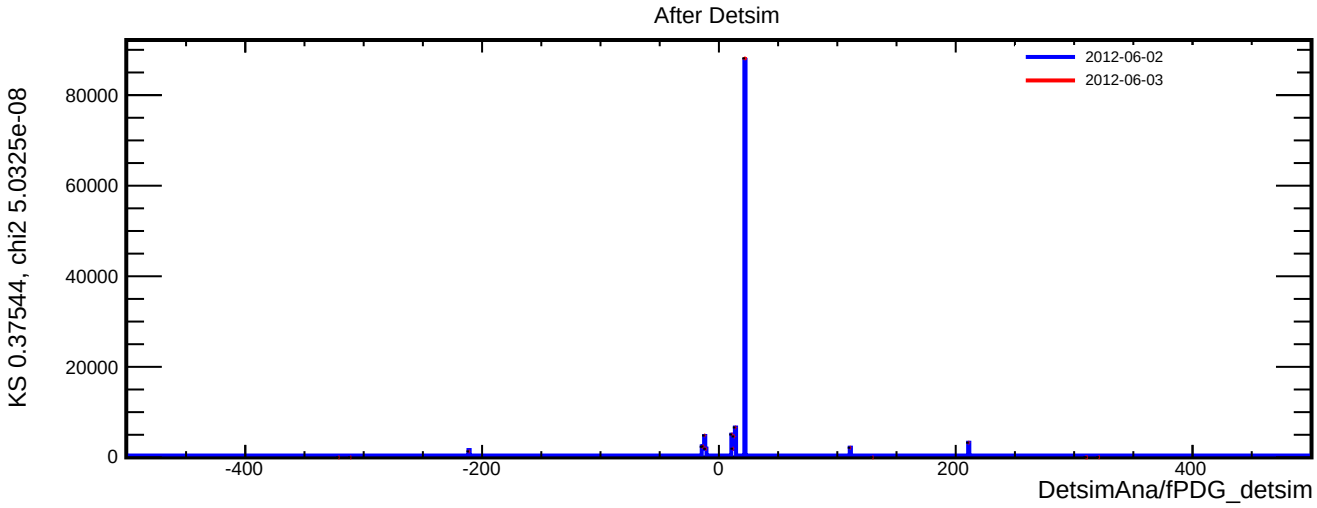

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_HP

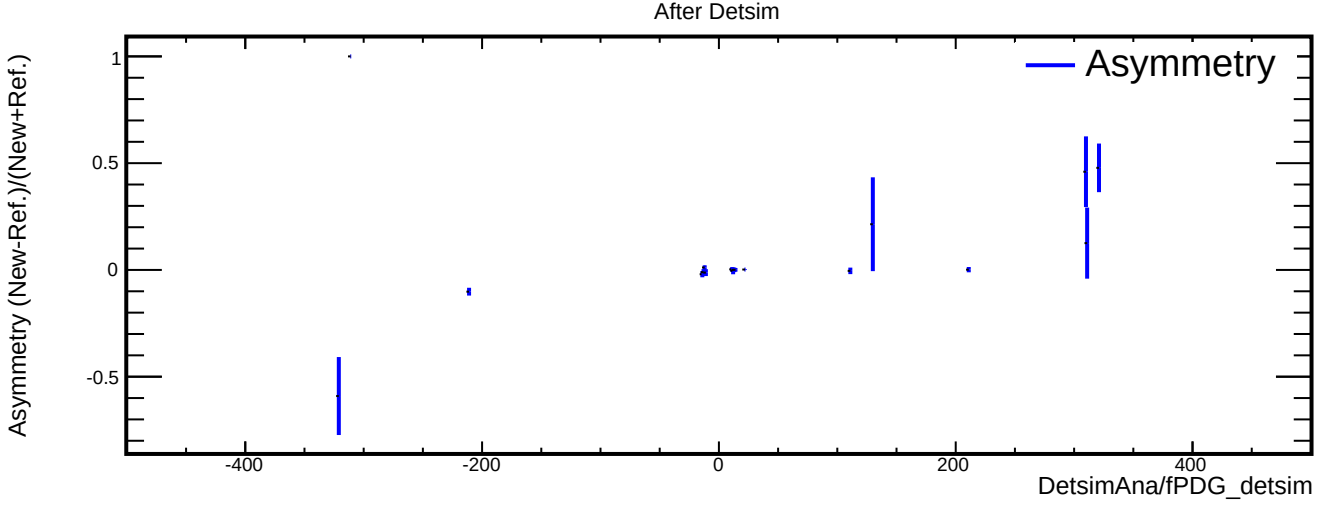

KS 0.0012458, chi2 8.46383e-79
150
100
50
0
0
200
400
600
800
1000
DetAna/fNumDigits
2012-06-02
2012-06-03

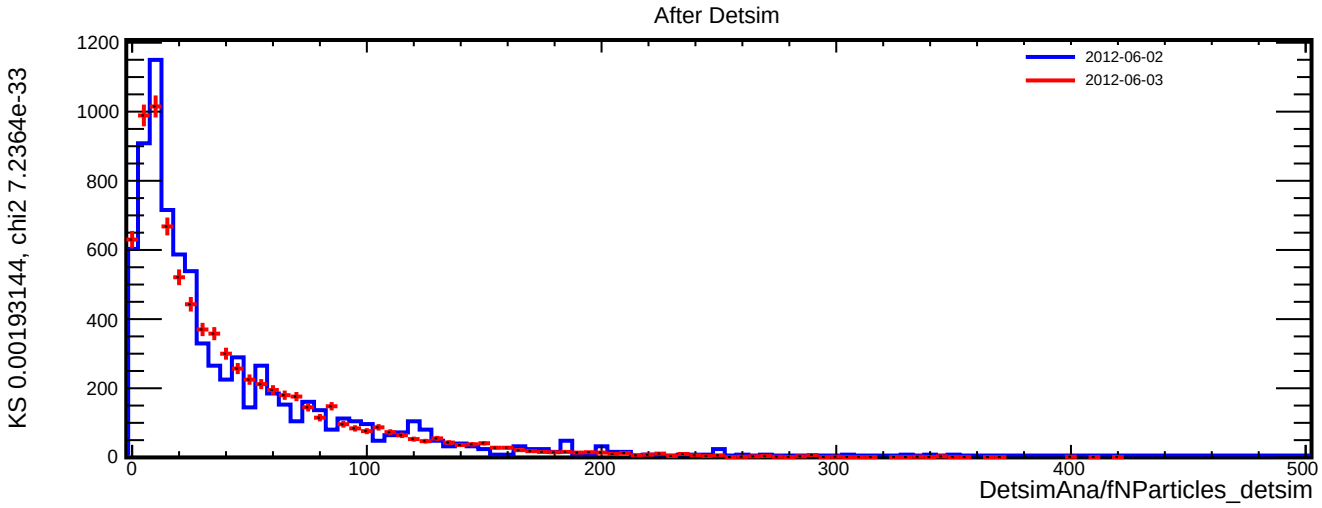

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
200
400
600
800
1000
DetAna/fNumDigits
Asymmetry

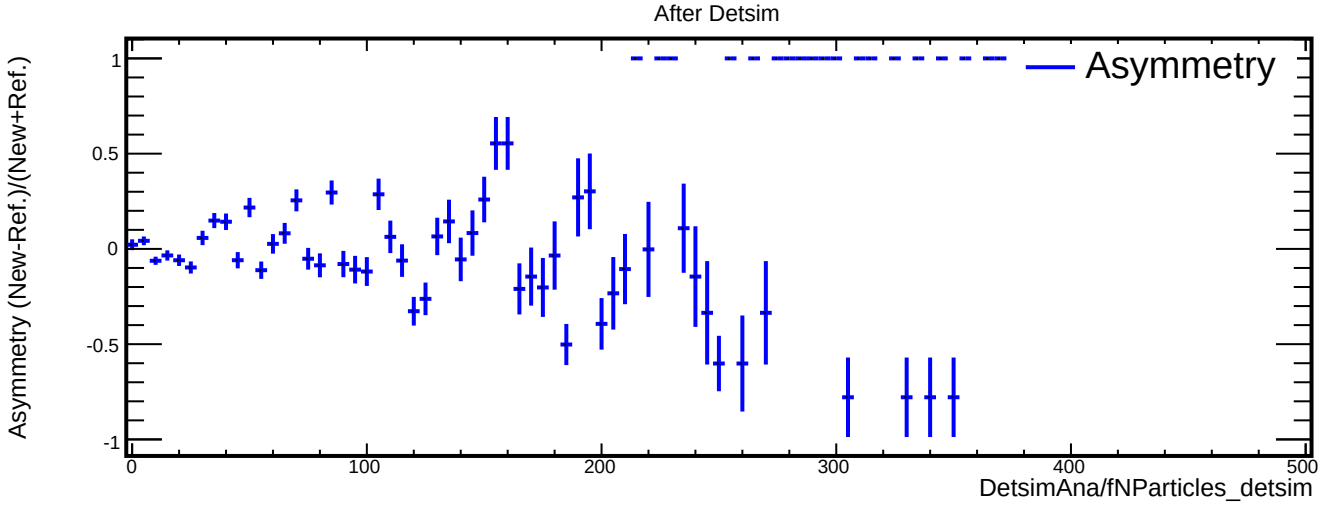

×10^3
100
80
60
40
20
0
0
200
400
600
800
1000
KS 1.06245e-31, chi2 0
DetAna/fADCs
2012-06-02
2012-06-03

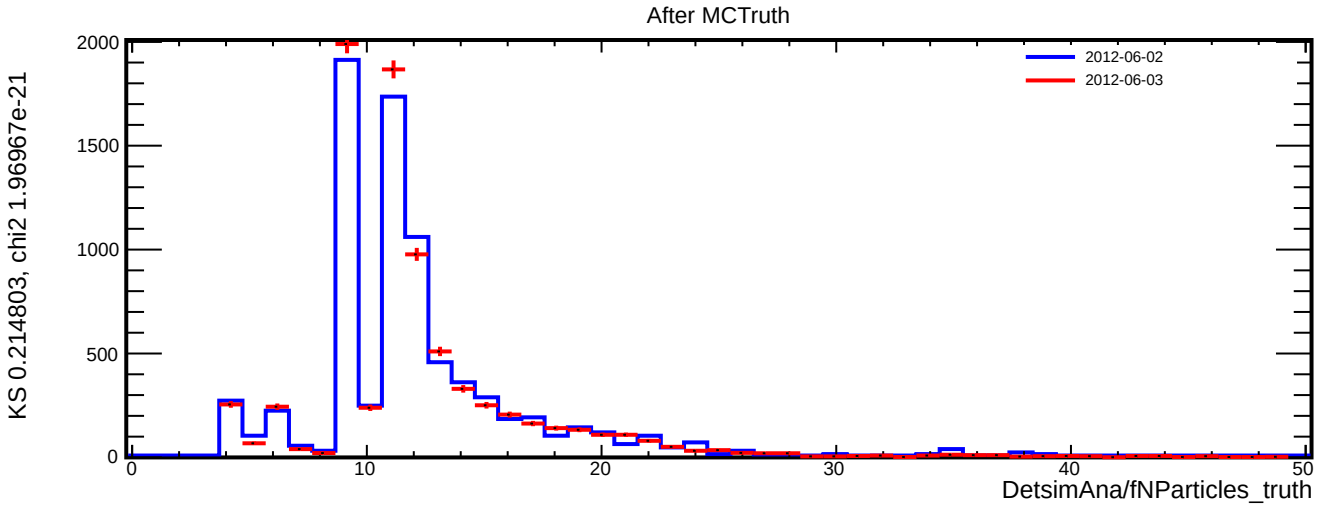

0.5
0
-0.5
0
200
400
600
800
1000
Asymmetry (New-Ref.)/(New+Ref.)
DetAna/fADCs
Asymmetry

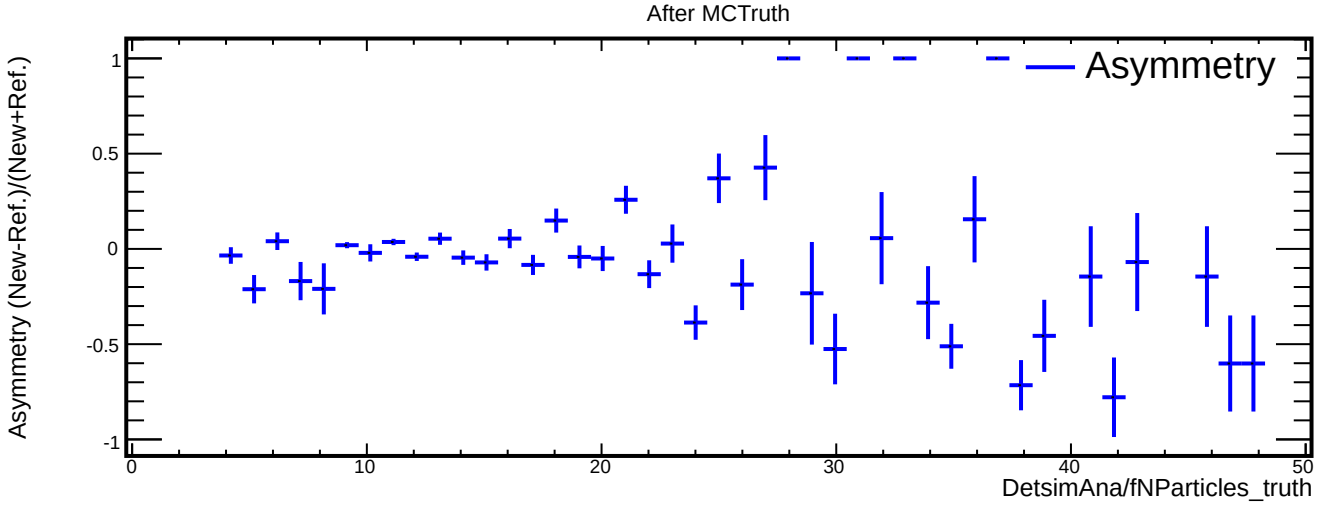

After Detsim
KS 0.37544, chi2 5.0325e-08
2012-06-02
2012-06-03
80000
60000
40000
20000
0
-400
-200
0
200
400
DetsimAna/fPDG_detsim

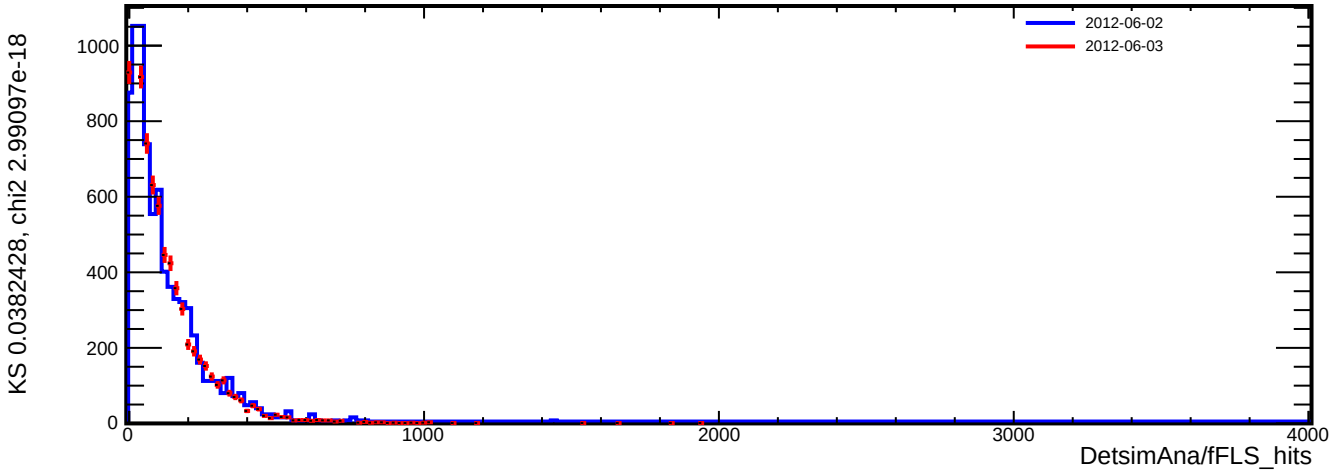

After Detsim
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-400
-200
0
200
400
DetsimAna/fPDG_detsim

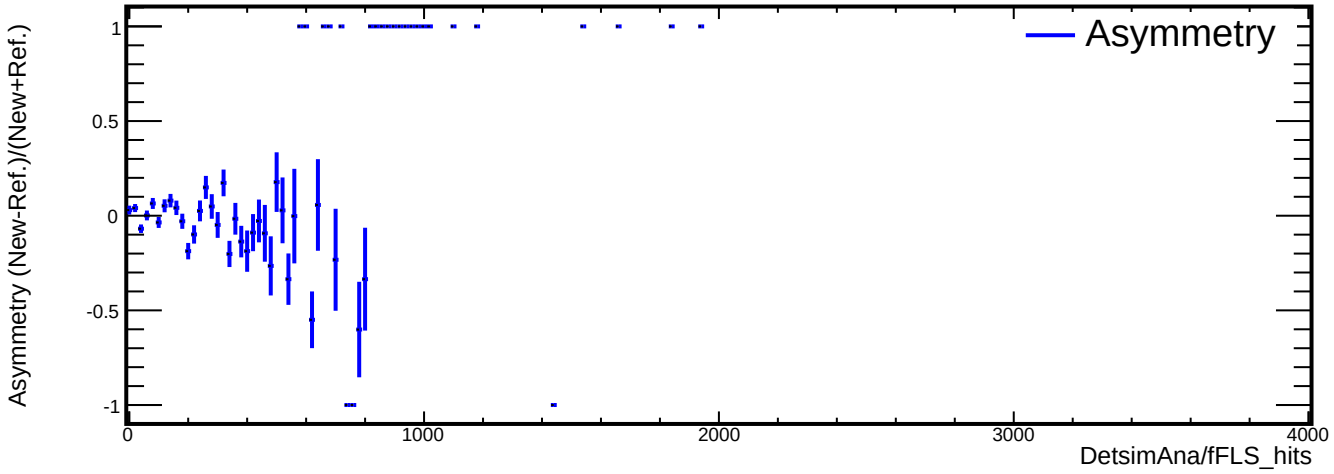

After Detsim
KS 0.00193144, chi2 7.2364e-33
2012-06-02
2012-06-03
DetsimAna/fNParticles_detsim

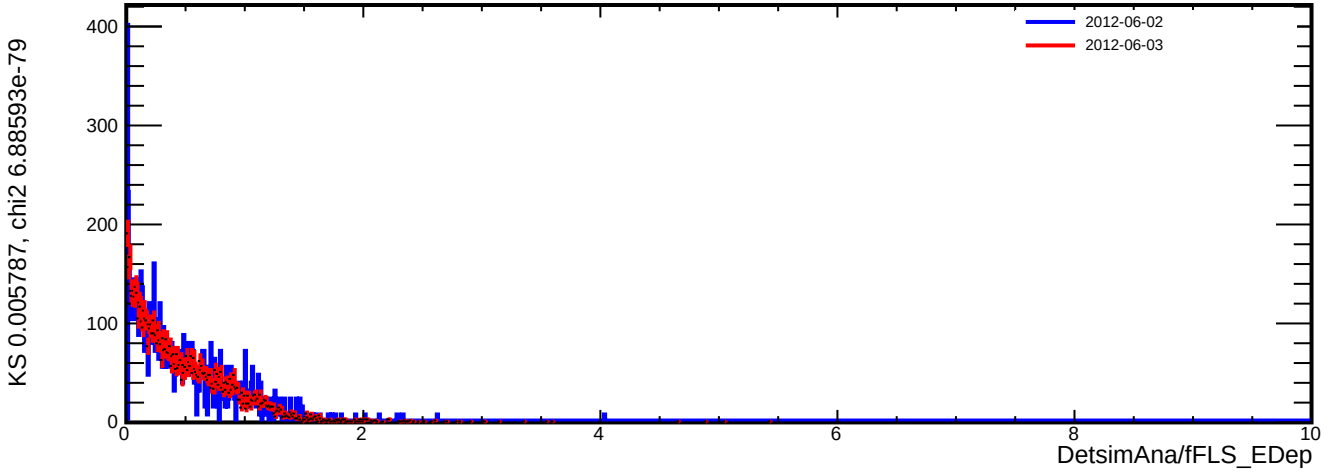

After Detsim
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
DetsimAna/fNParticles_detsim

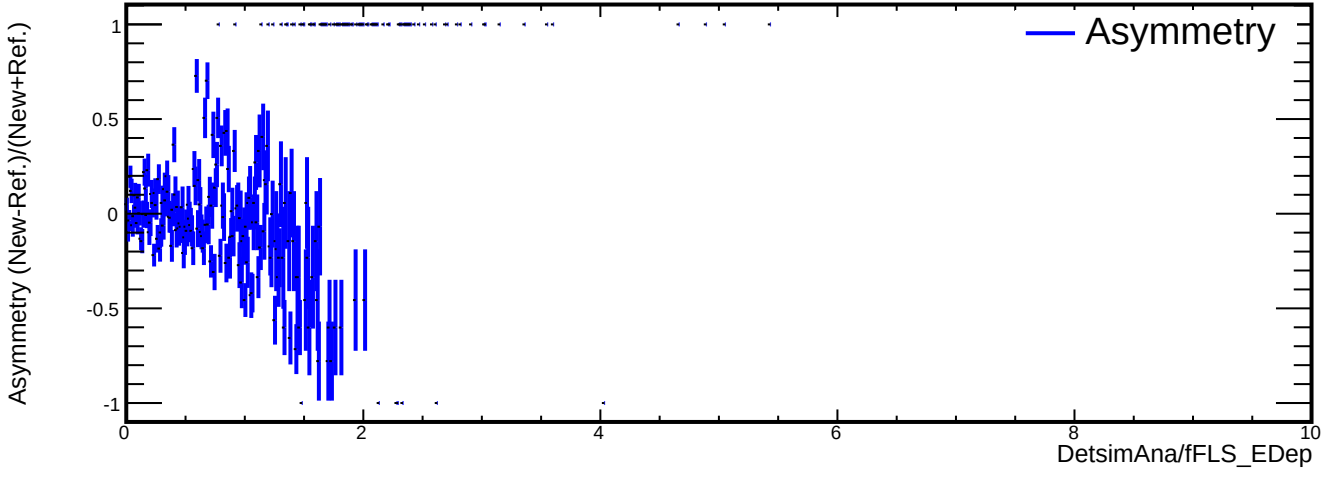

After MCTruth
KS 0.214803, chi2 1.96967e-21
2012-06-02
2012-06-03
DetsimAna/fNParticles_truth

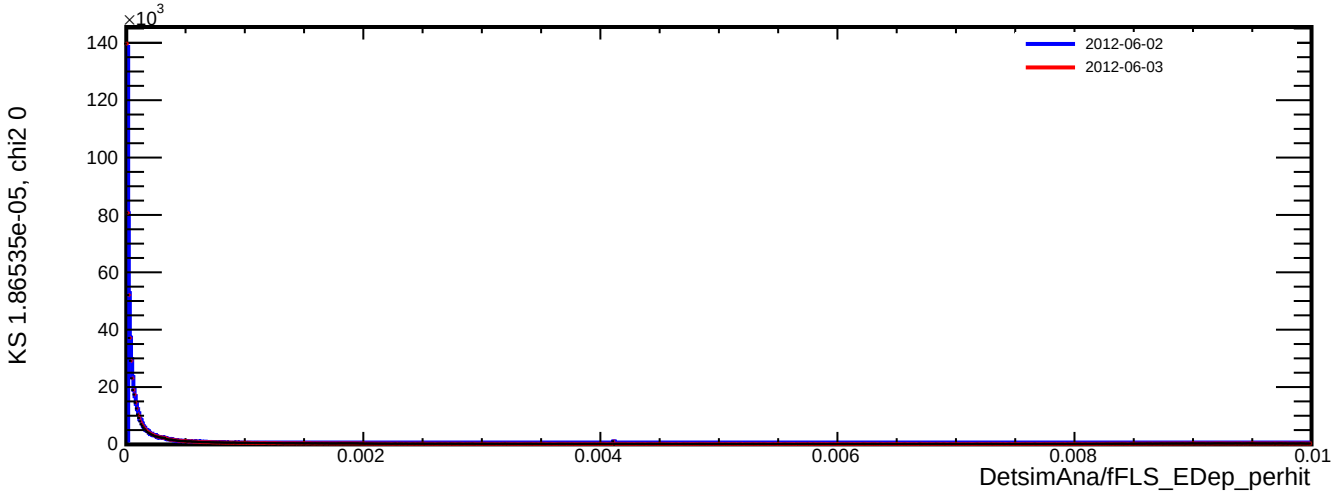

After MCTruth
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
DetsimAna/fNParticles_truth

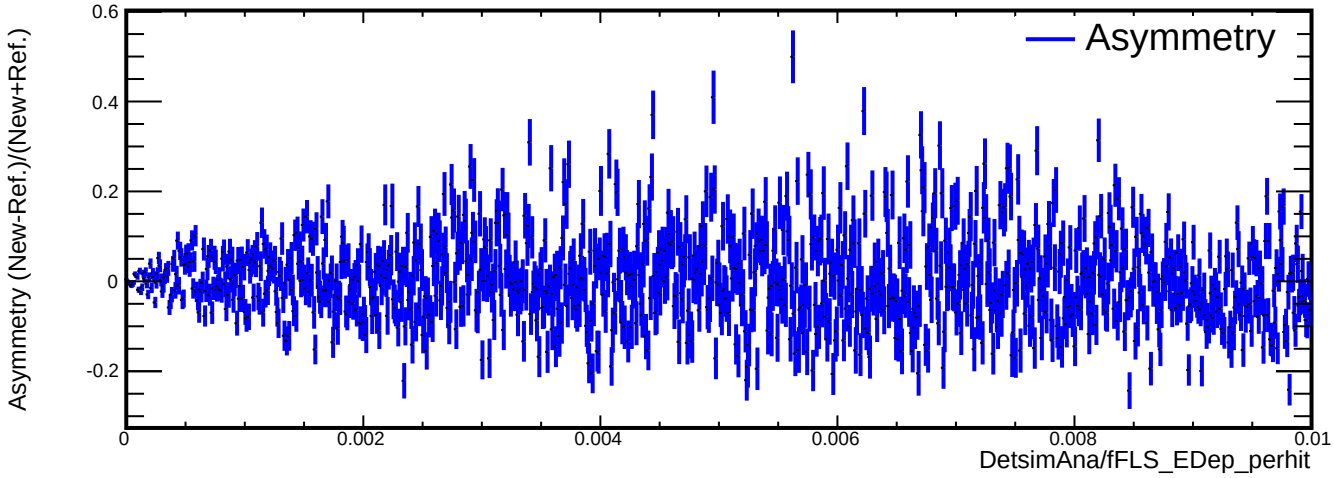

KS 0.0382428, chi2 2.99097e-18
2012-06-02
2012-06-03
1000
800
600
400
200
0
0
1000
2000
3000
4000
DetsimAna/fFLS_hits

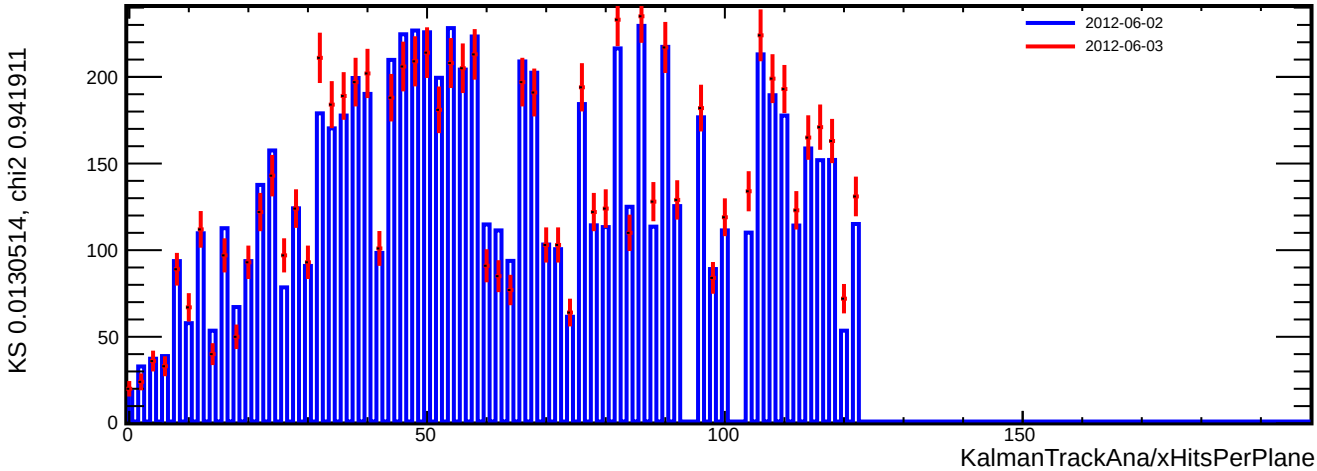

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
1000
2000
3000
4000
DetsimAna/fFLS_hits

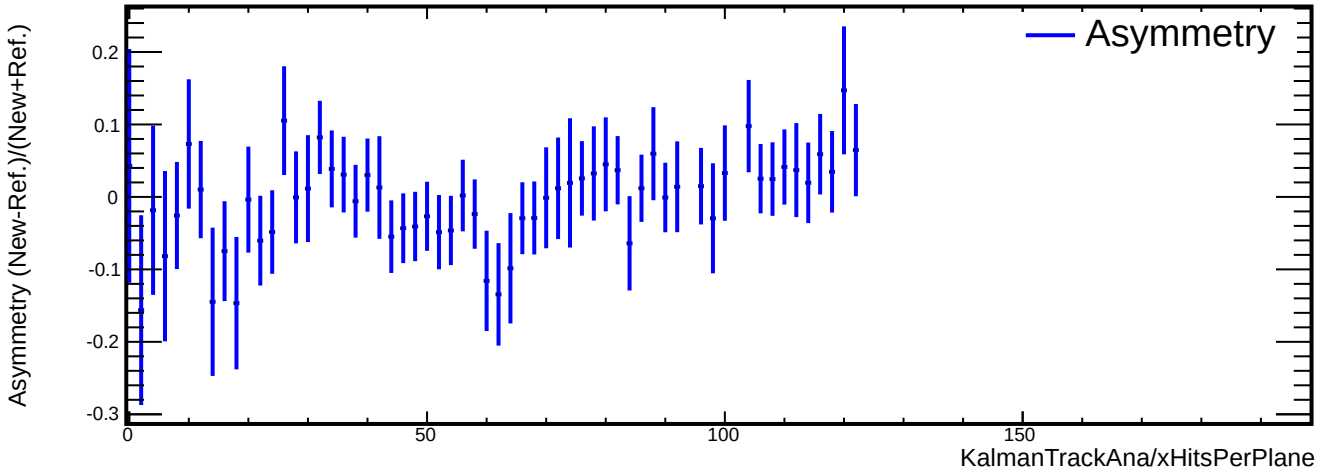

KS 0.005787, chi2 6.88593e-79
400
300
200
100
0
0
2
4
6
8
10
DetsimAna/fFLS_EDep
2012-06-02
2012-06-03

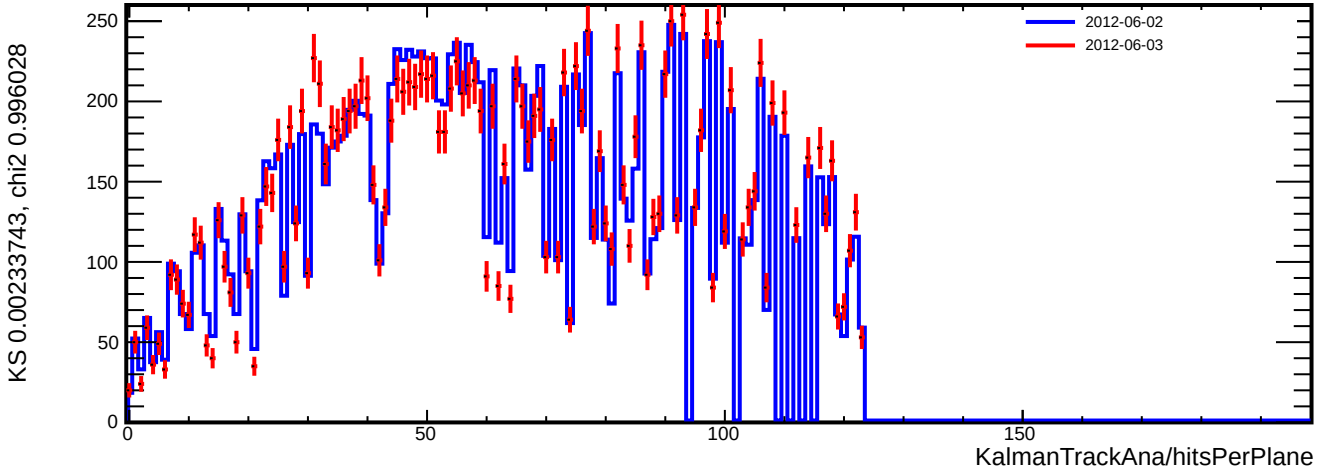

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
2
4
6
8
10
DetsimAna/fFLS_EDep
Asymmetry

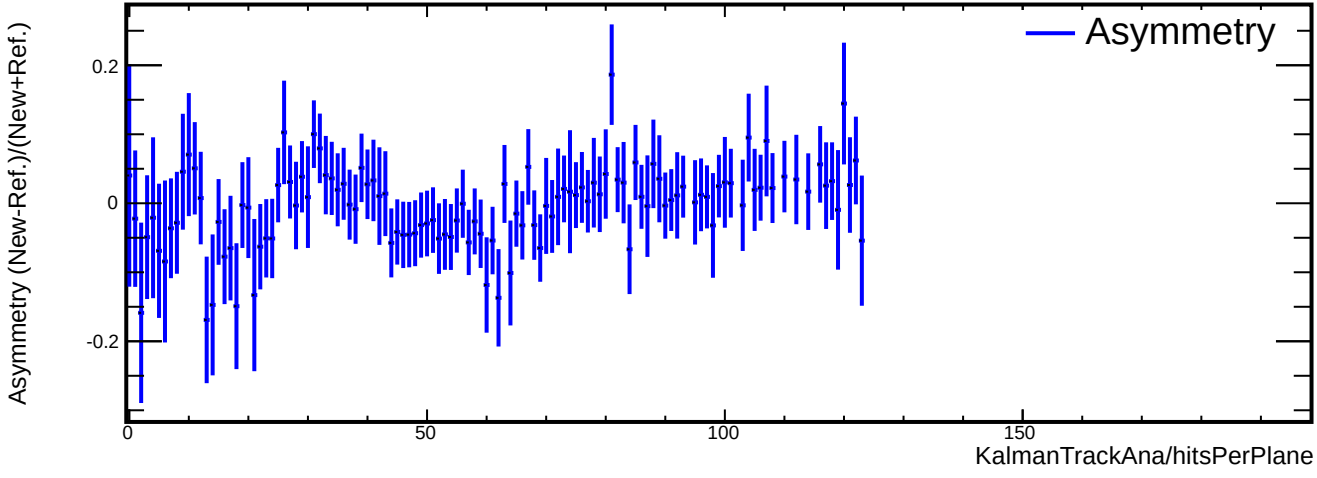

×10^3
140
120
100
80
60
40
20
0
0
0.002
0.004
0.006
0.008
0.01
2012-06-02
2012-06-03
KS 1.86535e-05, chi2 0
DetsimAna/fFLS_EDep_perhit

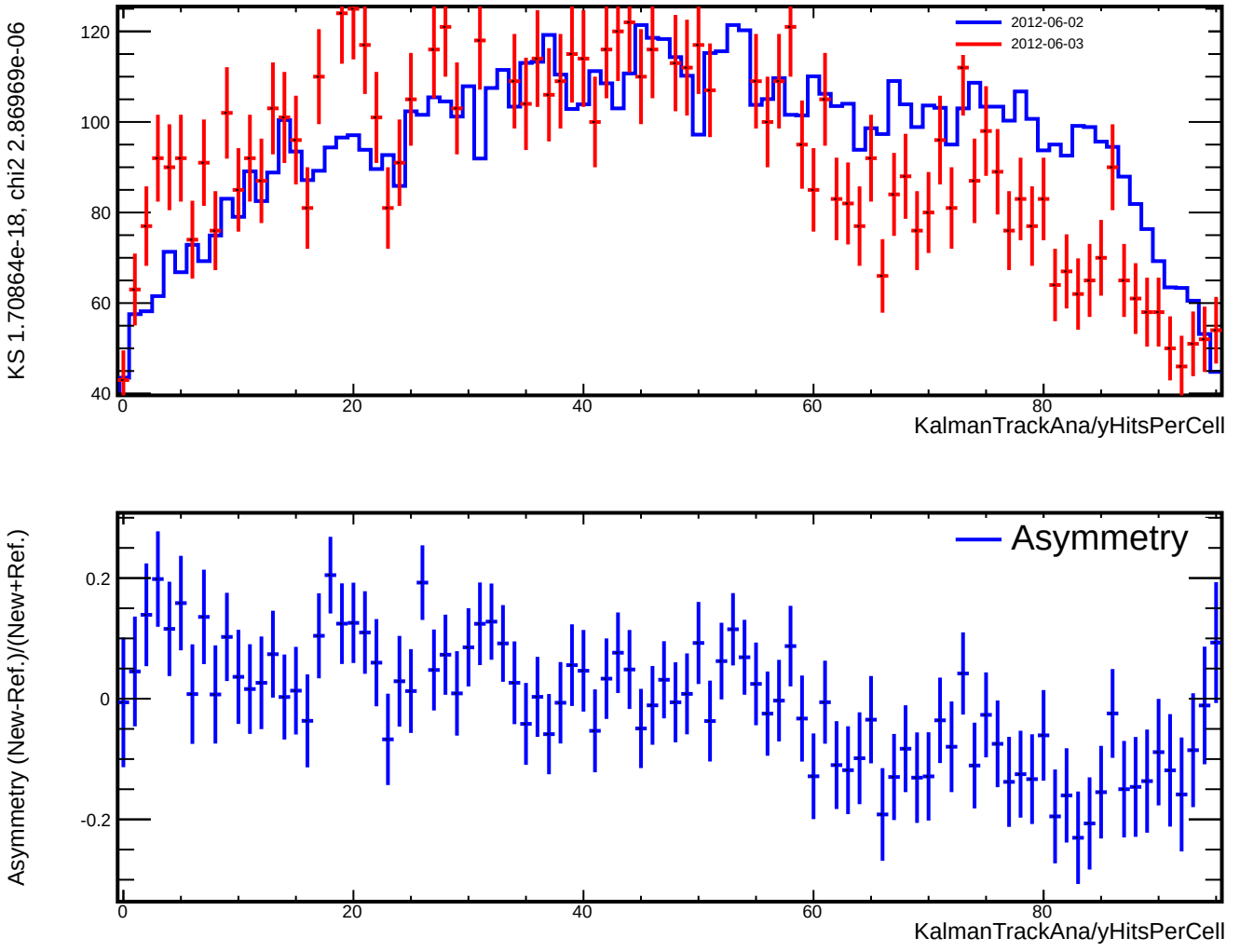

0.6
0.4
0.2
0
-0.2
0
0.002
0.004
0.006
0.008
0.01
Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
DetsimAna/fFLS_EDep_perhit

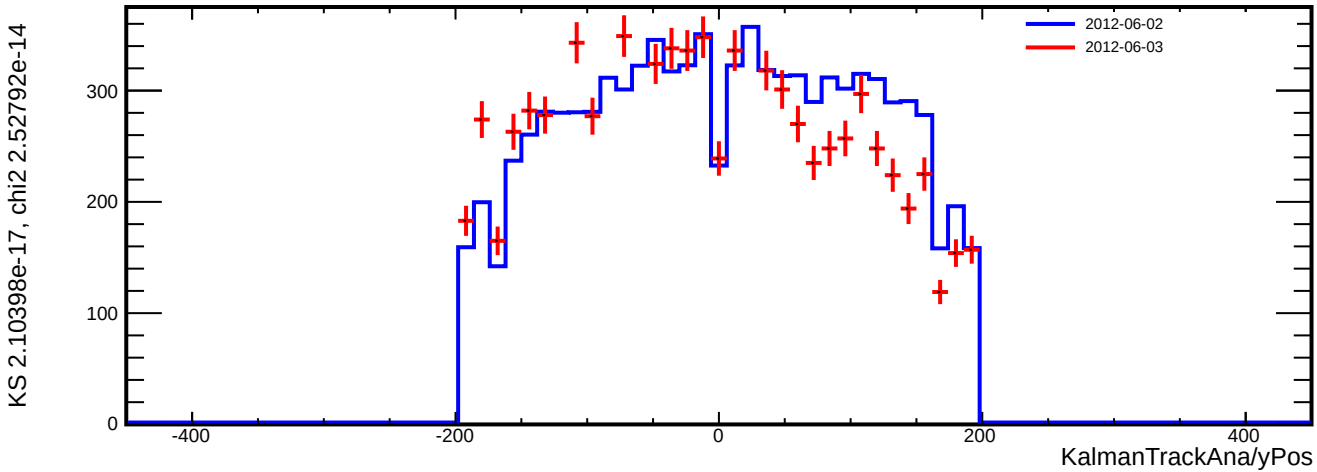

KS 0.0130514, chi2 0.941911
2012-06-02
2012-06-03
0
50
100
150
200
0
50
100
150
KalmanTrackAna/xHitsPerPlane

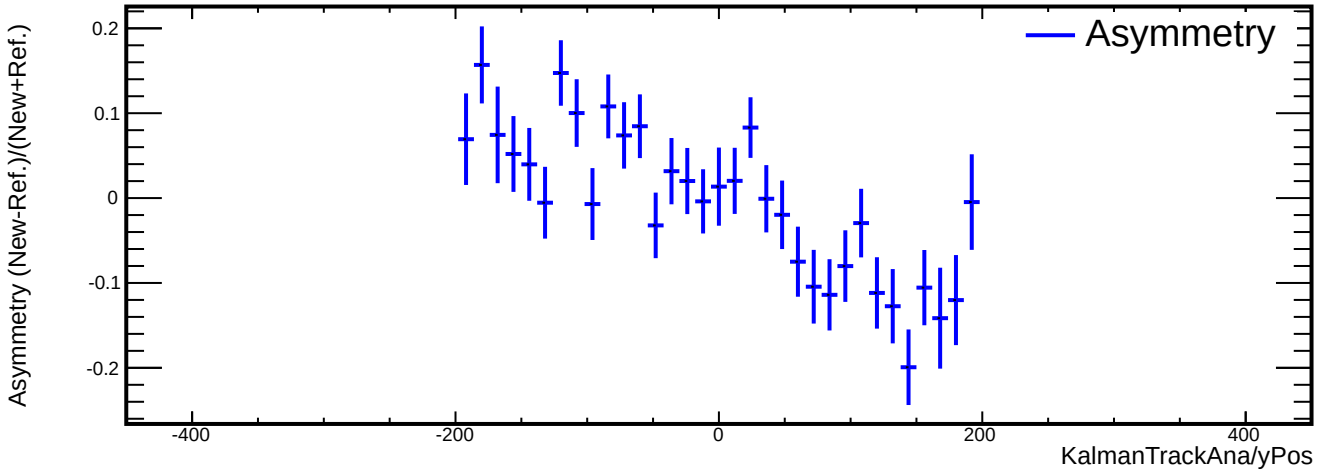

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0.1
0
-0.1
-0.2
-0.3
0
50
100
150
KalmanTrackAna/xHitsPerPlane

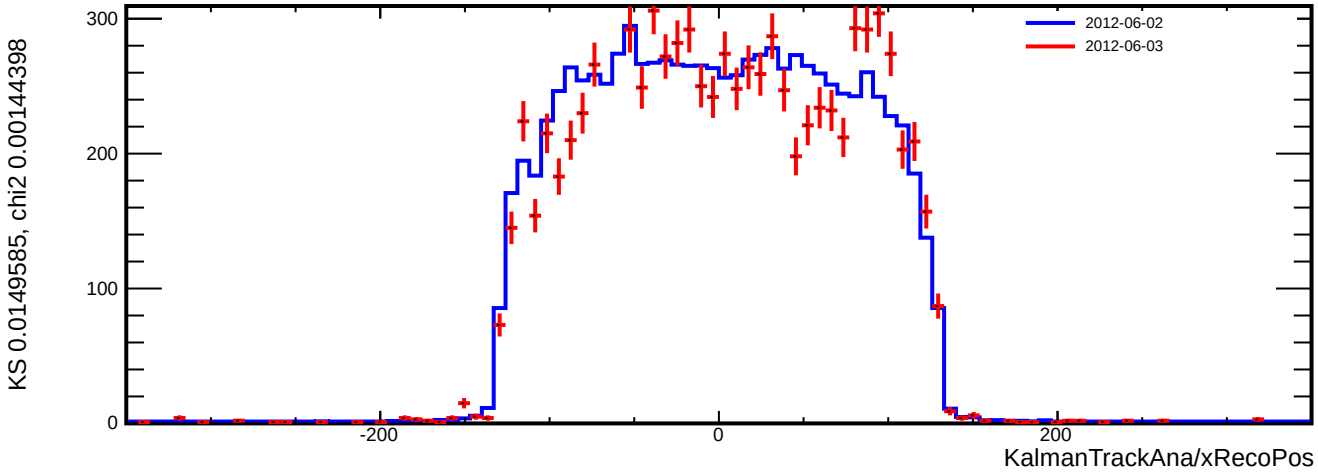

KS 0.00233743, chi2 0.996028
2012-06-02
2012-06-03
KalmanTrackAna/hitsPerPlane

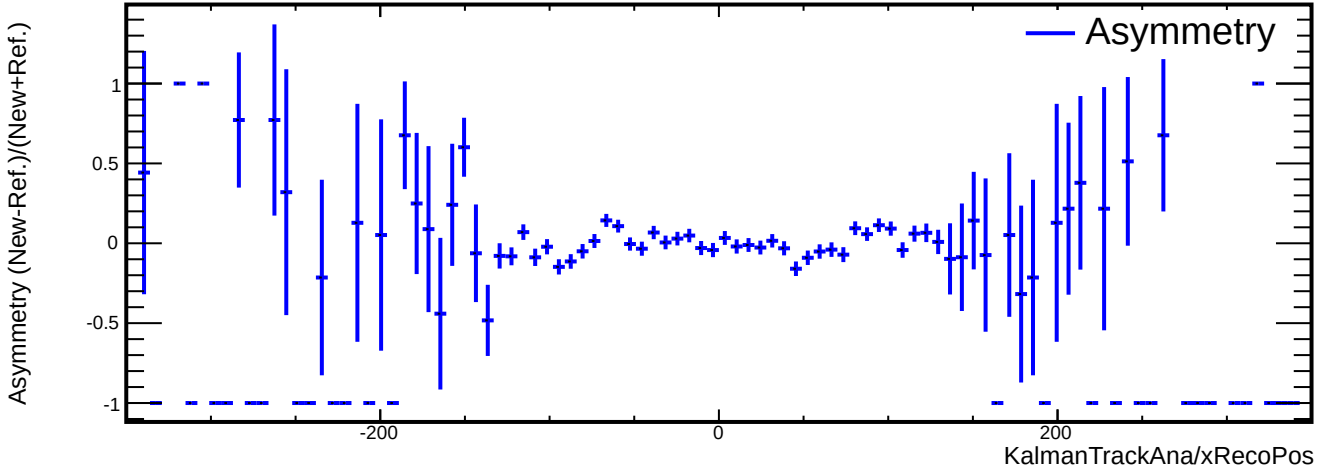

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/hitsPerPlane

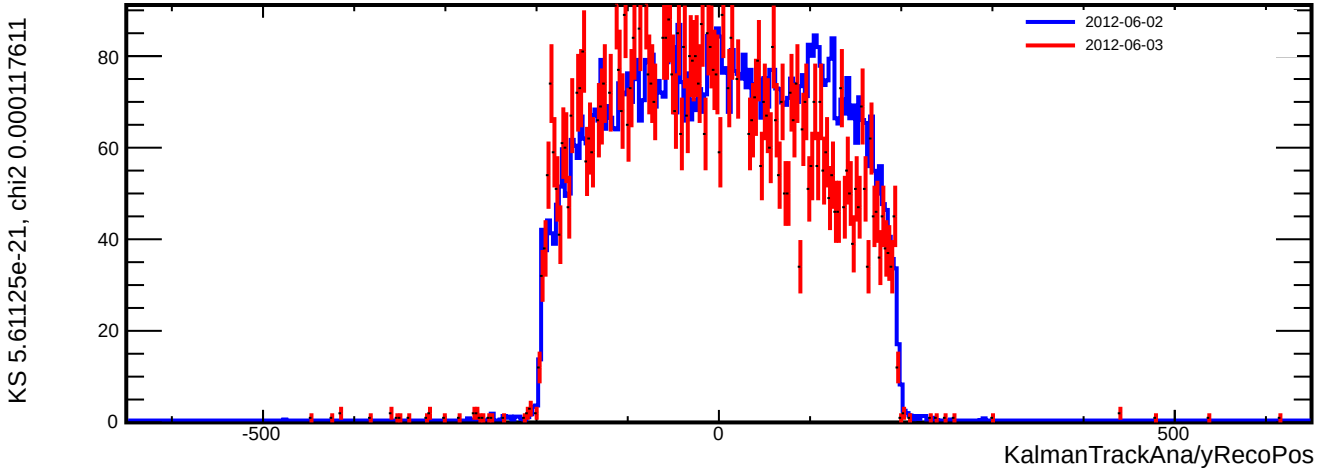

KS 1.70864e-18, chi2 2.86969e-06
2012-06-02
2012-06-03
KalmanTrackAna/yHitsPerCell
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/yHitsPerCell

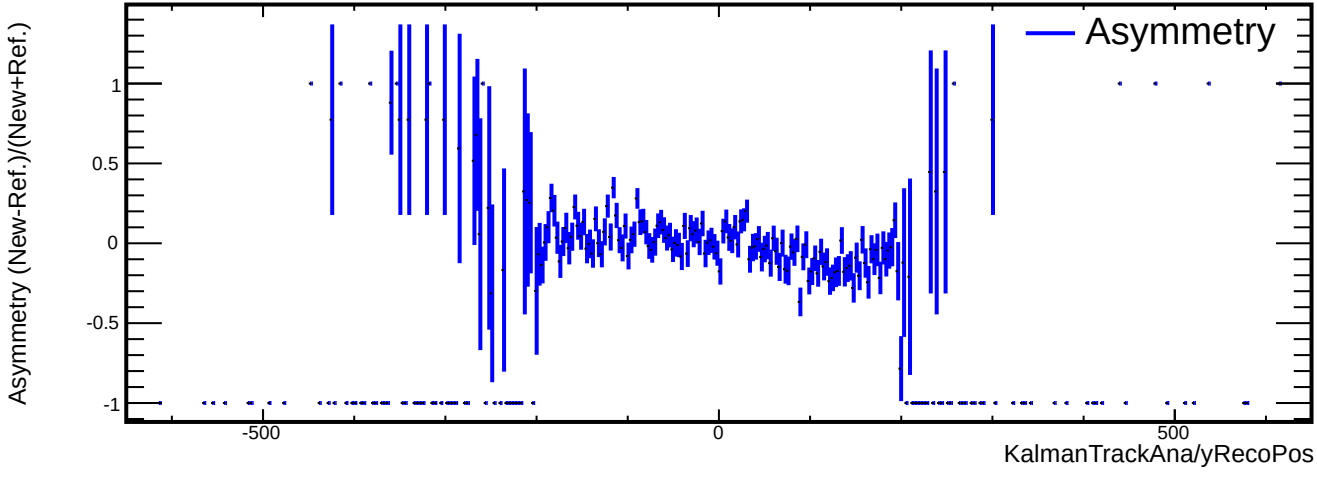

KS 2.10398e-17, chi2 2.52792e-14
2012-06-02
2012-06-03
300
200
100
0
-400
-200
0
200
400
KalmanTrackAna/yPos

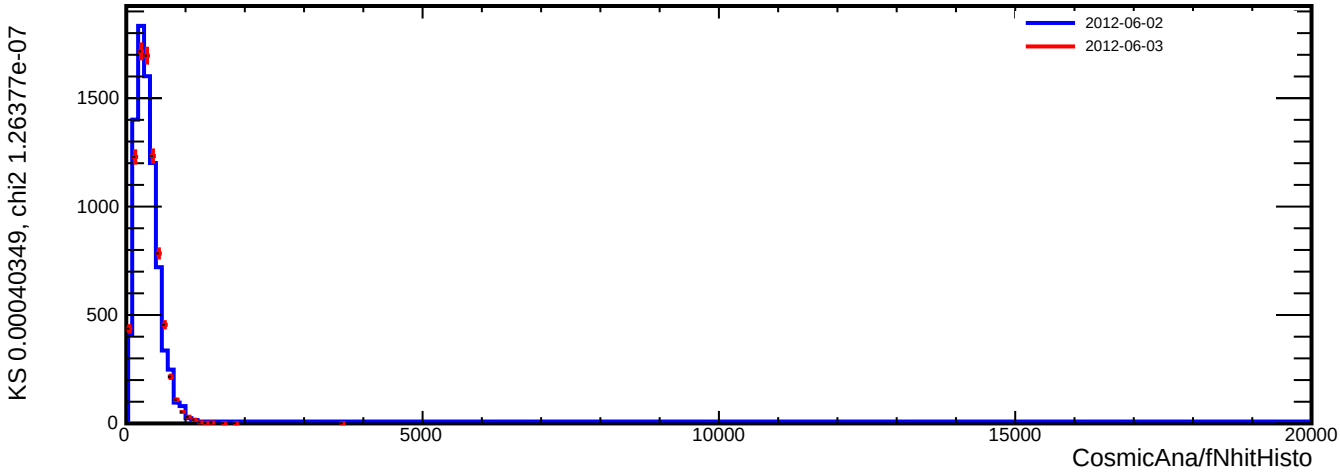

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0.1
0
-0.1
-0.2
-400
-200
0
200
400
KalmanTrackAna/yPos

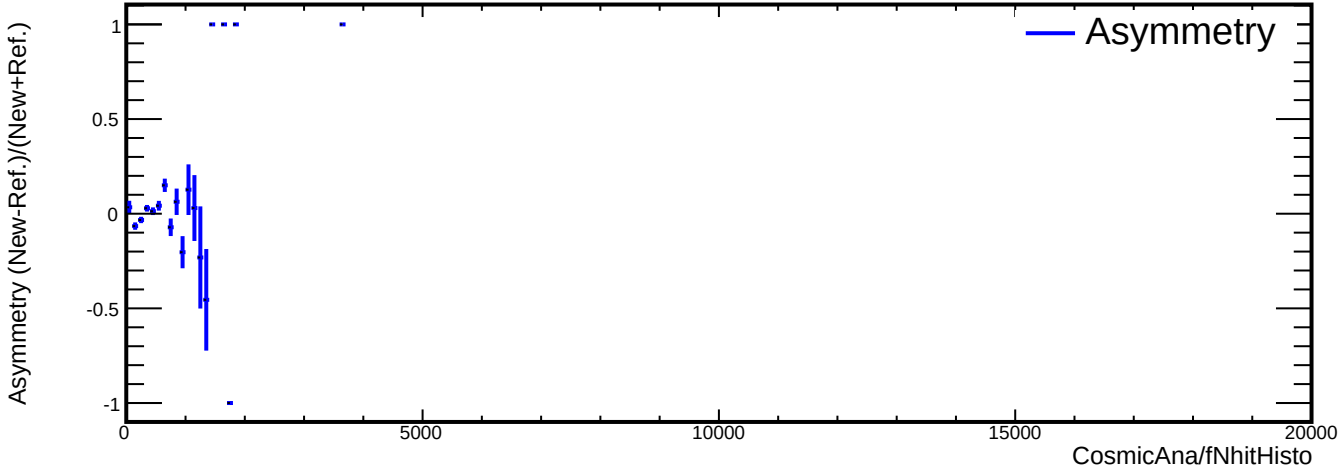

KS 0.0149585, chi2 0.00144398
300
200
100
0
-200
0
200
KalmanTrackAna/xRecoPos
2012-06-02
2012-06-03

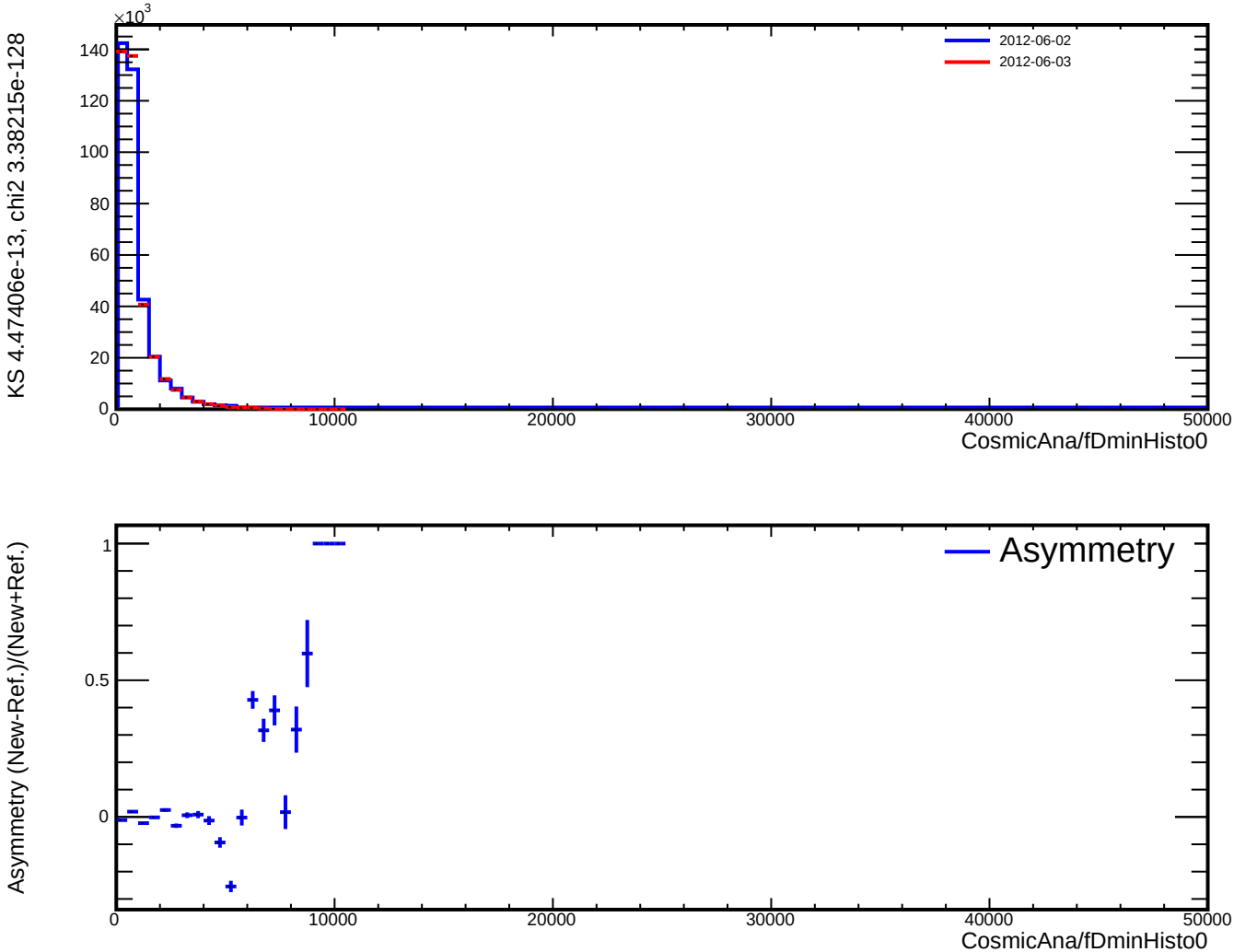

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
0
200
KalmanTrackAna/xRecoPos
Asymmetry

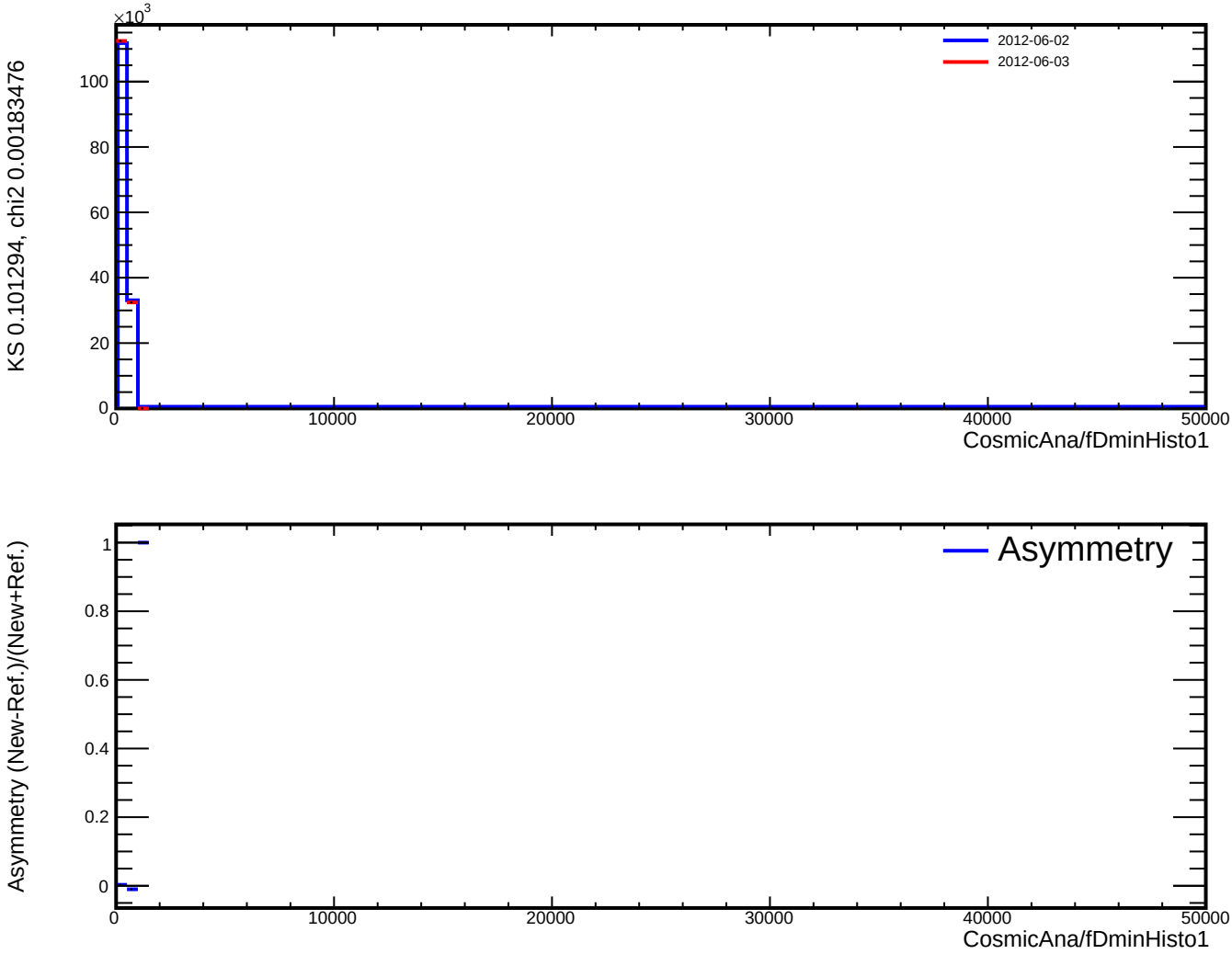

KS 5.61125e-21, chi2 0.000117611
2012-06-02
2012-06-03
80
60
40
20
0
-500
0
500
KalmanTrackAna/yRecoPos

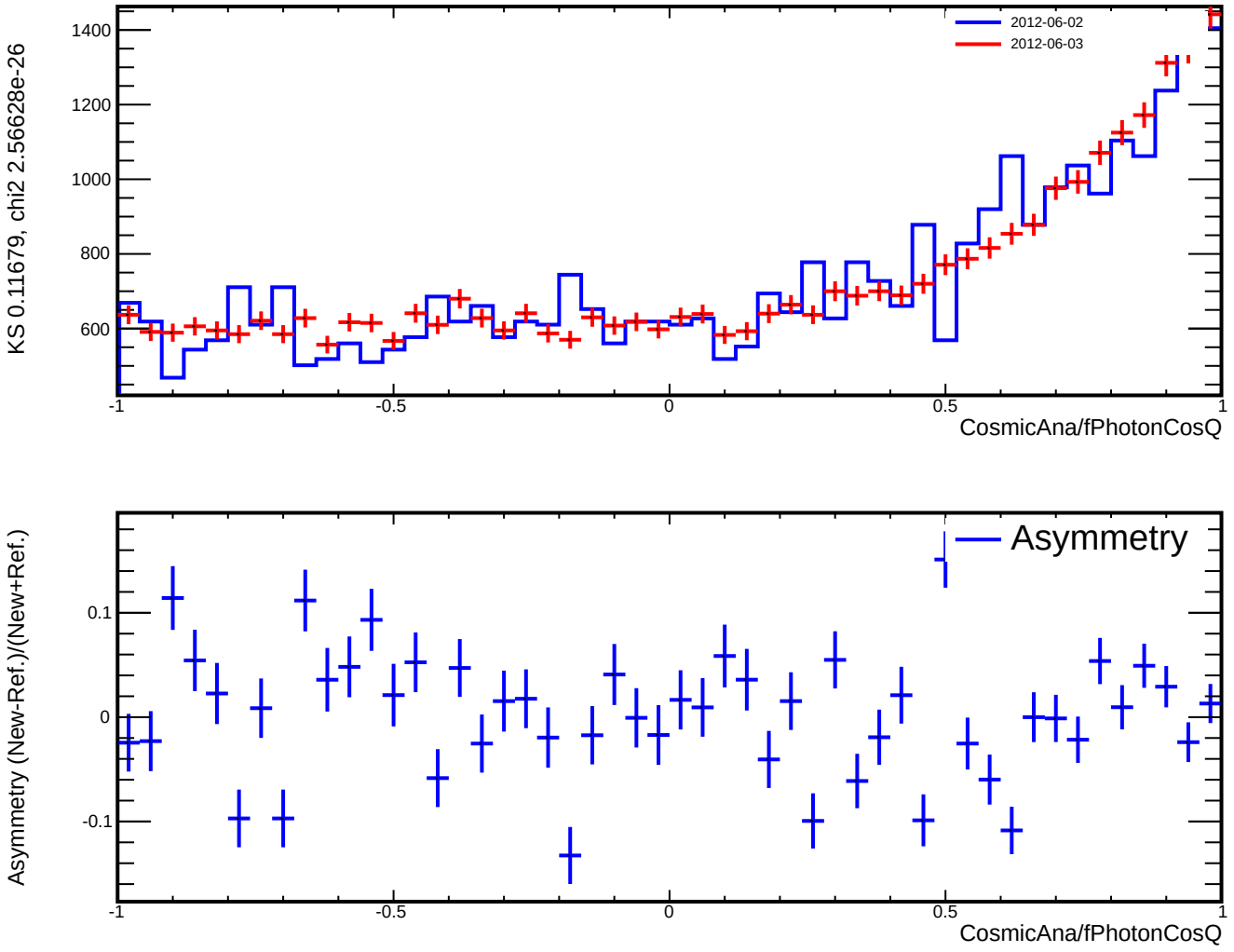

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-500
0
500
KalmanTrackAna/yRecoPos

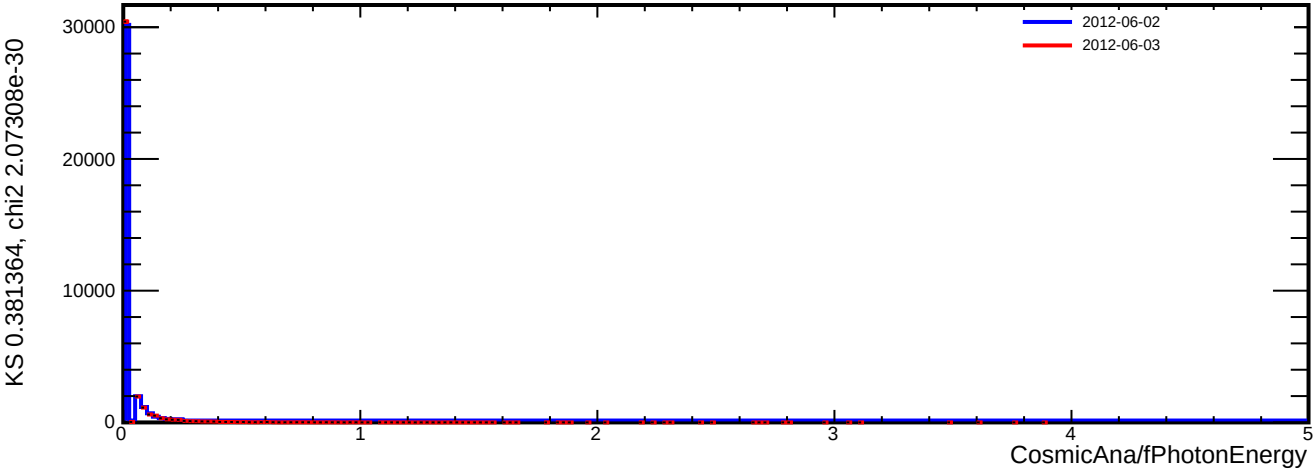

KS 0.00040349, chi2 1.26377e-07
2012-06-02
2012-06-03
1500
1000
500
0
0
5000
10000
15000
20000
CosmicAna/fNhitHisto

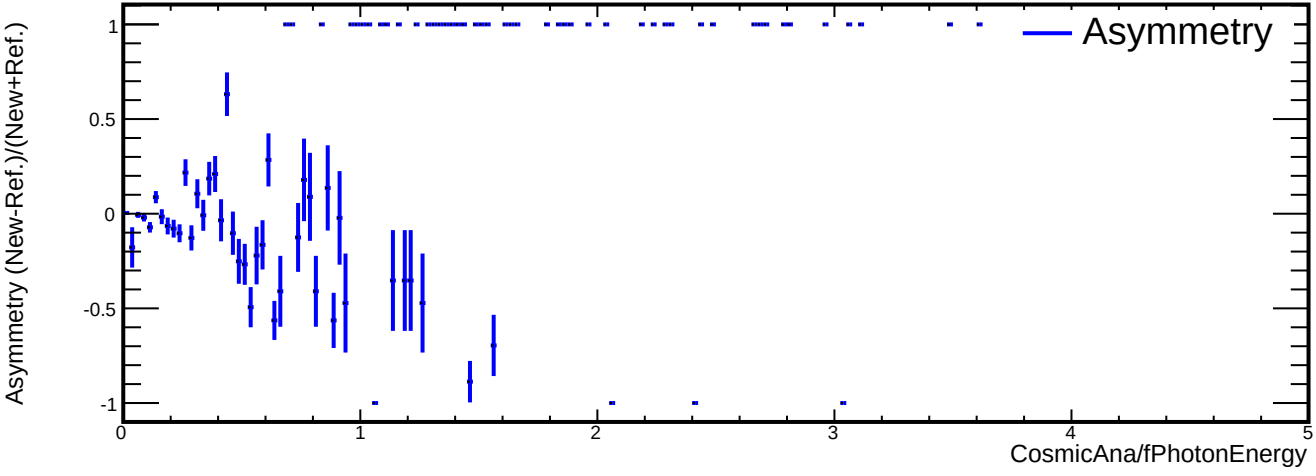

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
5000
10000
15000
20000
CosmicAna/fNhitHisto

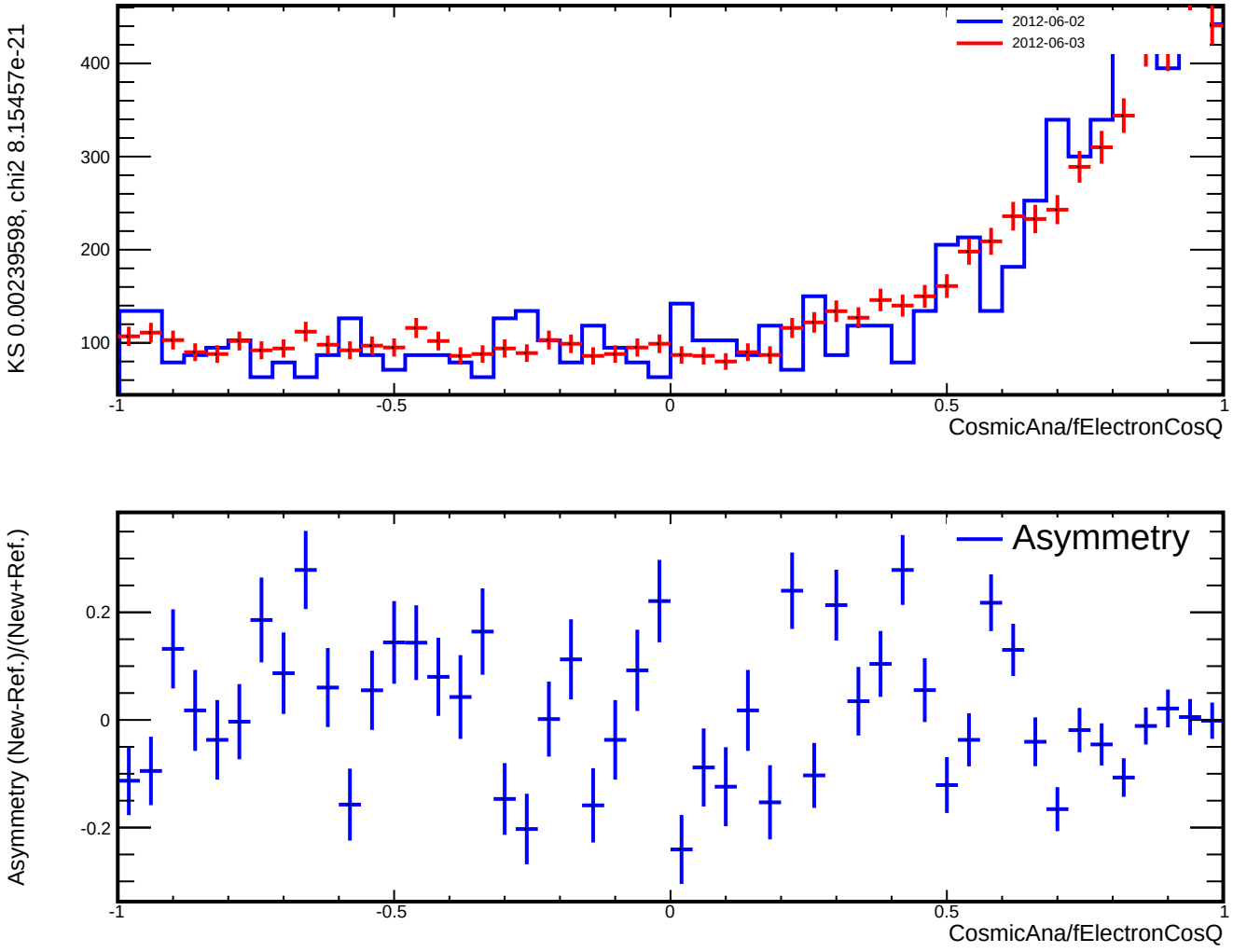

KS 4.47406e-13, chi2 3.38215e-128
×10^3
140
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto0
2012-06-02
2012-06-03
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
Asymmetry
CosmicAna/fDminHisto0

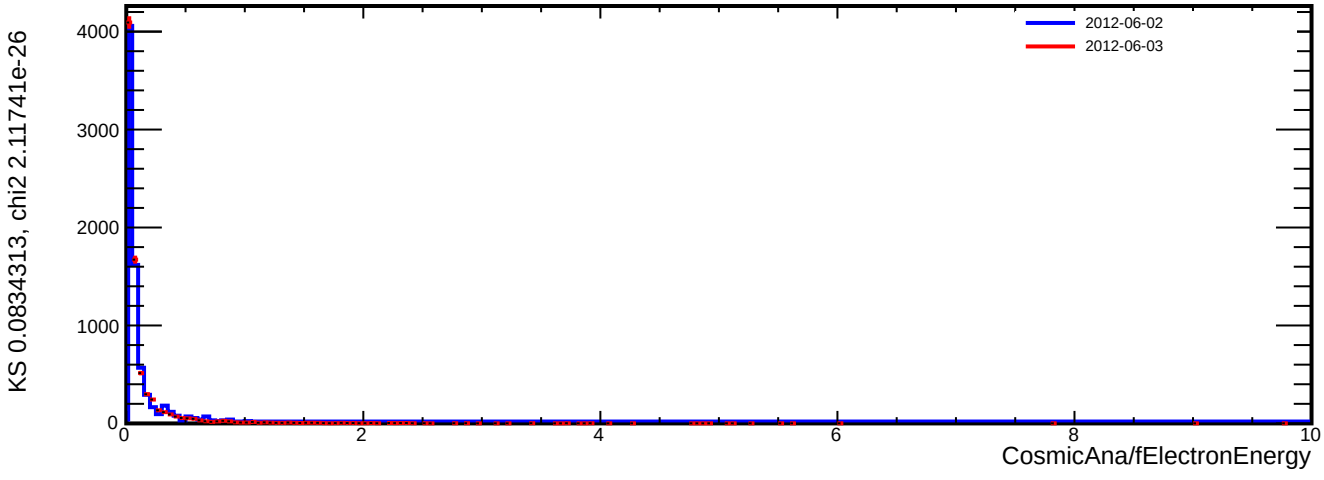

×10^3
KS 0.101294, chi2 0.00183476
2012-06-02
2012-06-03
CosmicAna/fDminHisto1
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
CosmicAna/fDminHisto1

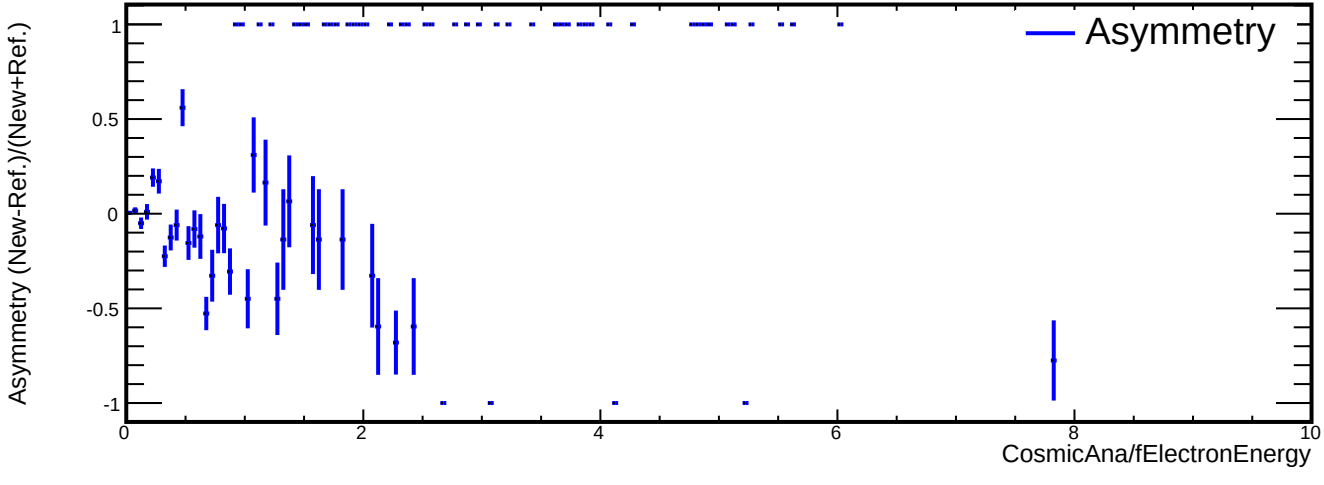

KS 0.11679, chi2 2.56628e-26
1400
1200
1000
800
600
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ
2012-06-02
2012-06-03
Asymmetry (New-Ref.)/(New+Ref.)
0.1
0
-0.1
Asymmetry
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ

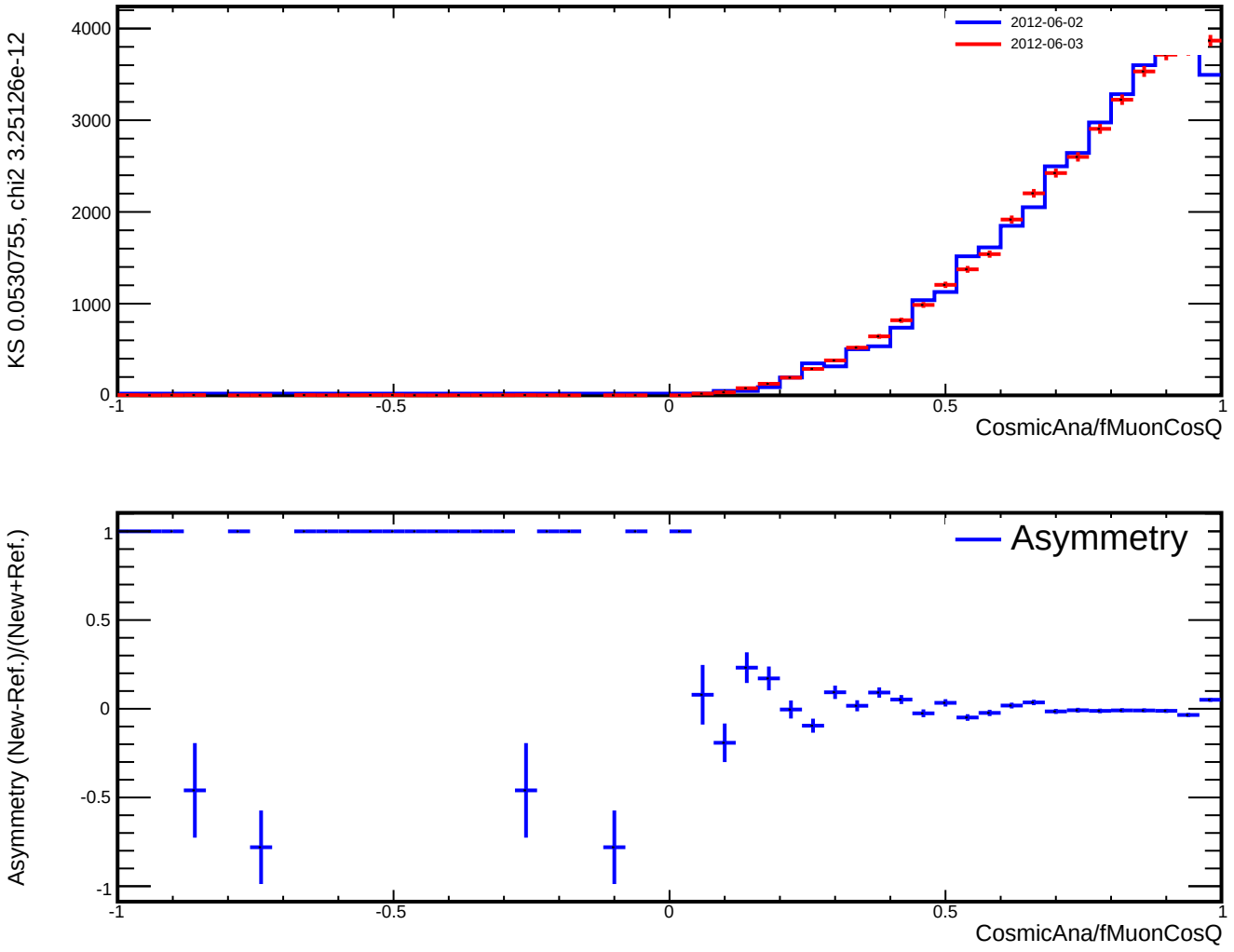

KS 0.381364, chi2 2.07308e-30
30000
20000
10000
0
0
1
2
3
4
5
CosmicAna/fPhotonEnergy
2012-06-02
2012-06-03

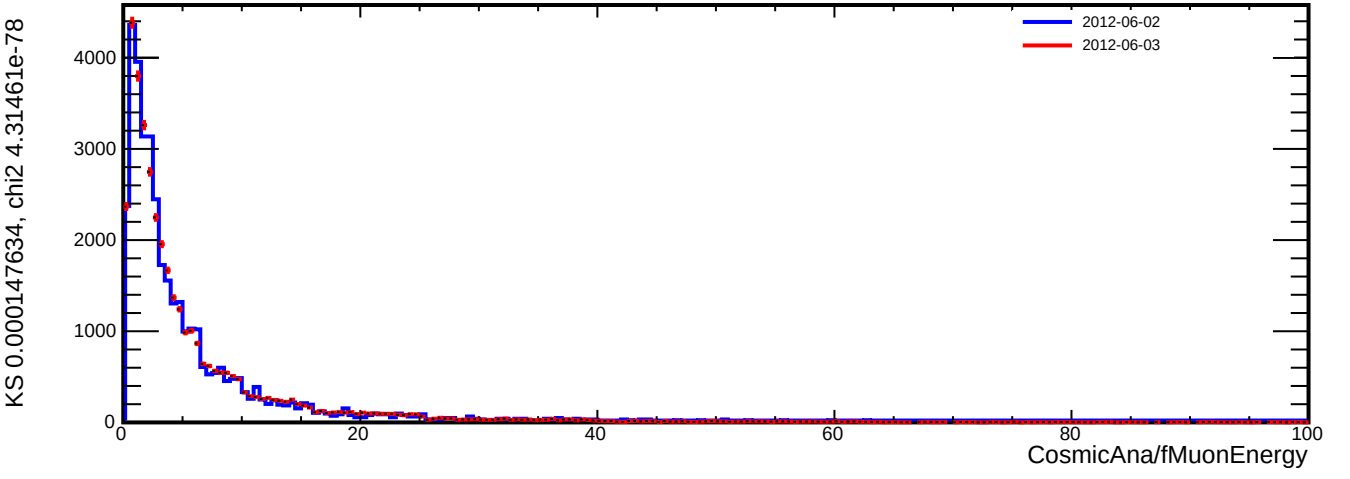

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
1
2
3
4
5
CosmicAna/fPhotonEnergy
Asymmetry

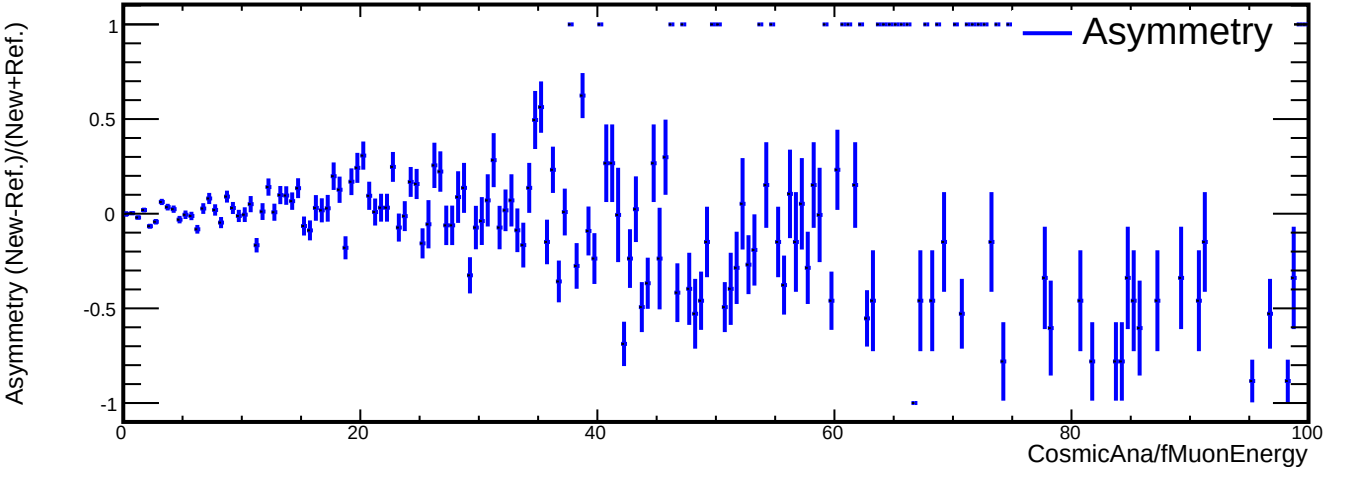

KS 0.00239598, chi2 8.15457e-21
2012-06-02
2012-06-03
400
300
200
100
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0
-0.2
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ

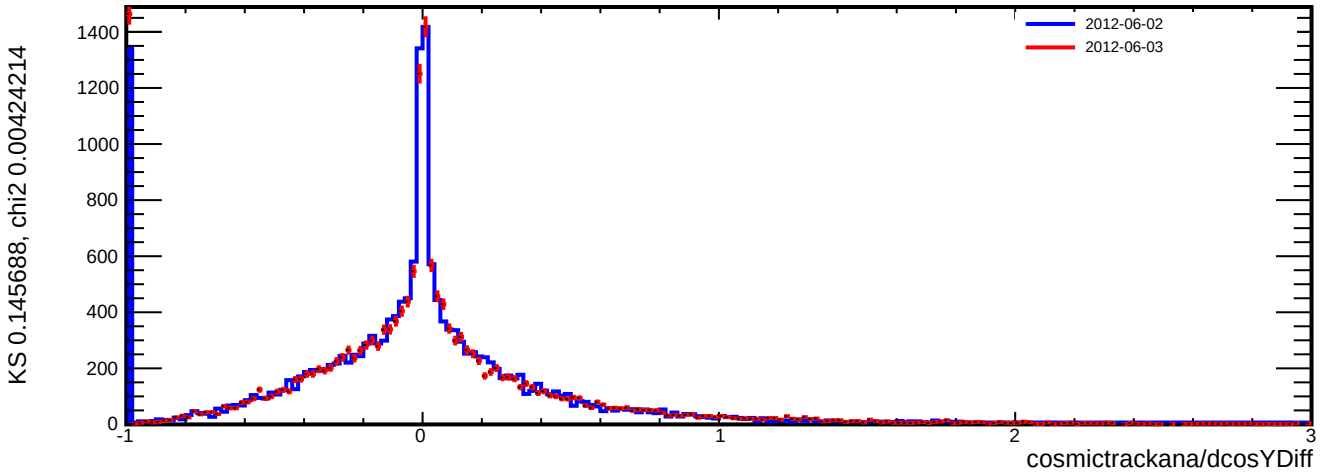

KS 0.0834313, chi2 2.11741e-26
4000
3000
2000
1000
0
0
2
4
6
8
10
CosmicAna/fElectronEnergy
2012-06-02
2012-06-03

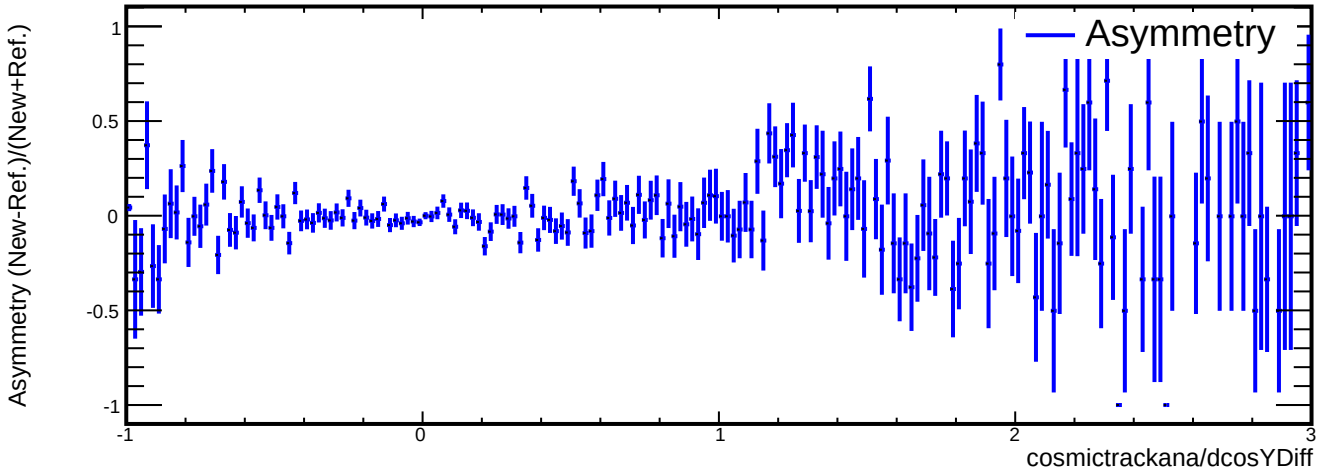

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
2
4
6
8
10
CosmicAna/fElectronEnergy
Asymmetry

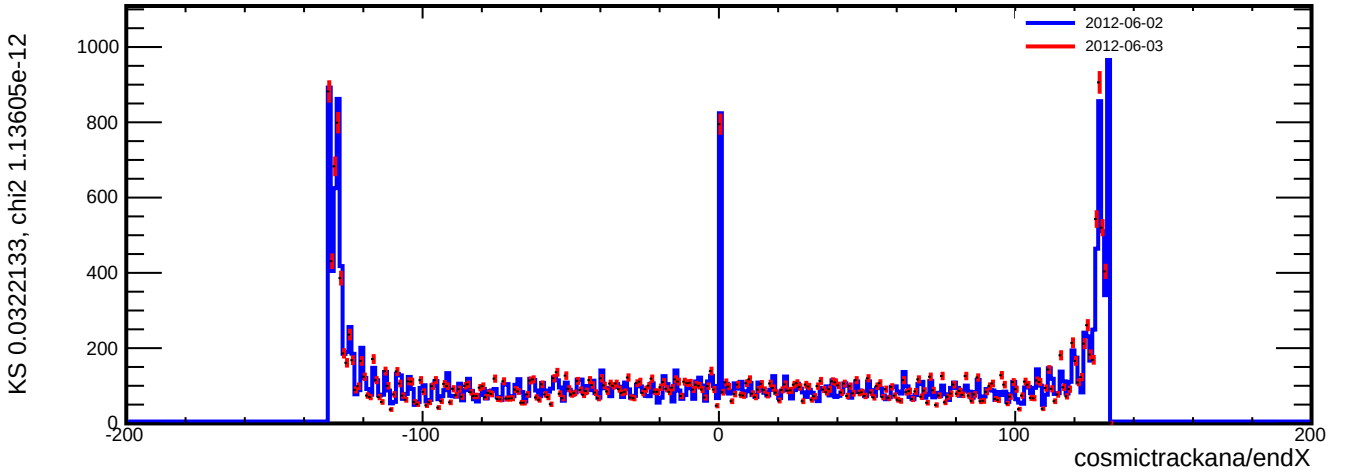

KS 0.0530755, chi2 3.25126e-12
2012-06-02
2012-06-03
CosmicAna/fMuonCosQ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
CosmicAna/fMuonCosQ

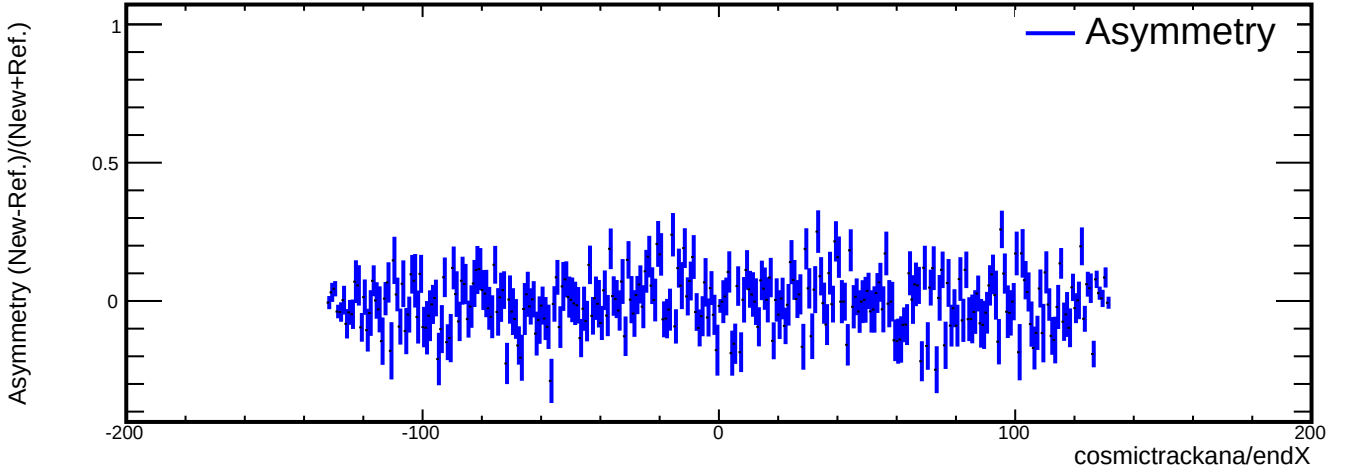

KS 0.000147634, chi2 4.31461e-78
2012-06-02
2012-06-03
4000
3000
2000
1000
0
0
20
40
60
80
100
CosmicAna/fMuonEnergy

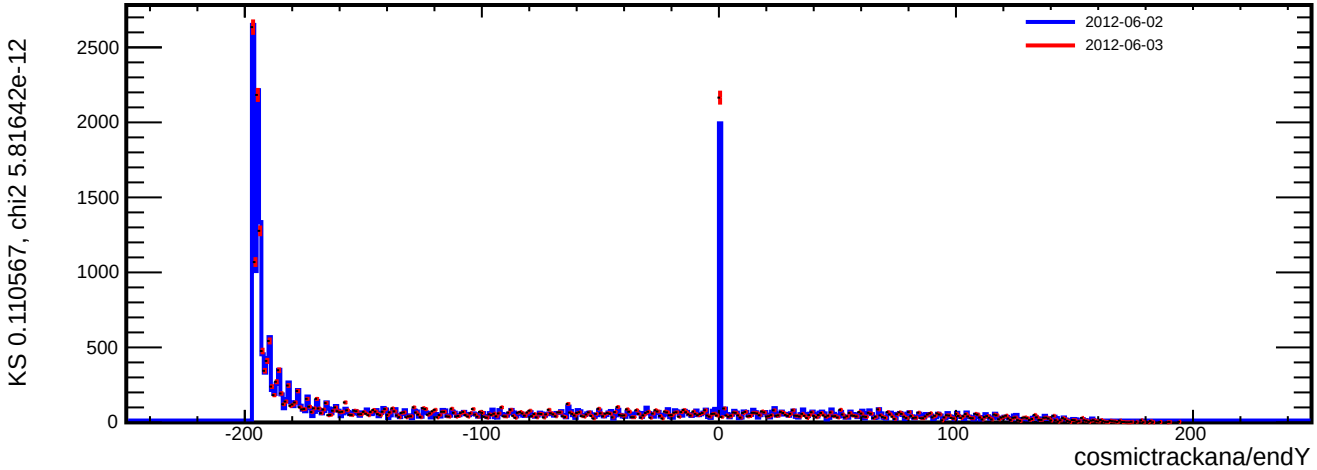

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
20
40
60
80
100
CosmicAna/fMuonEnergy

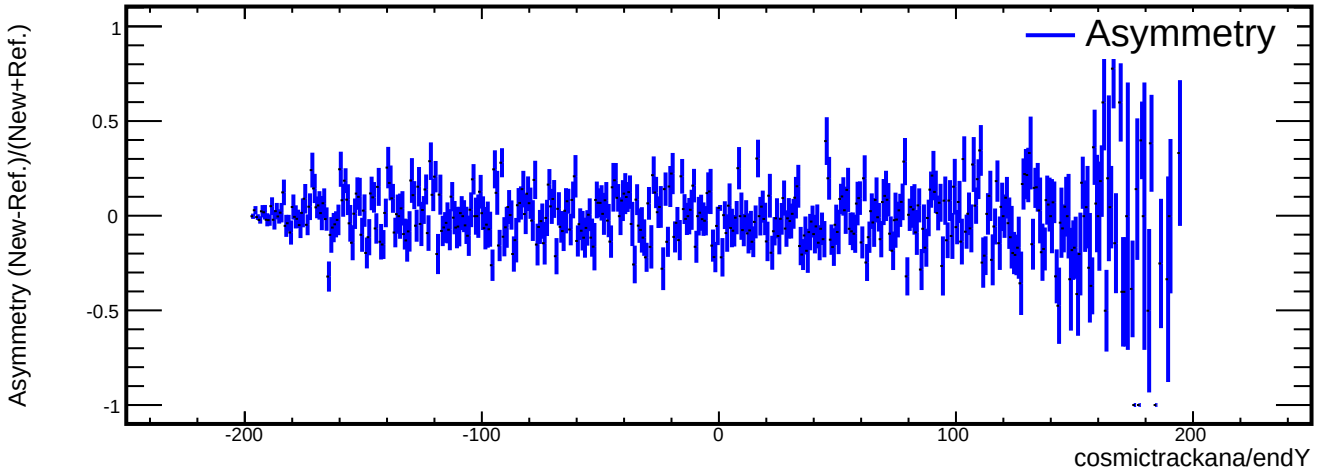

KS 0.145688, chi2 0.00424214
2012-06-02
2012-06-03
cosmictrackana/dcosYDiff

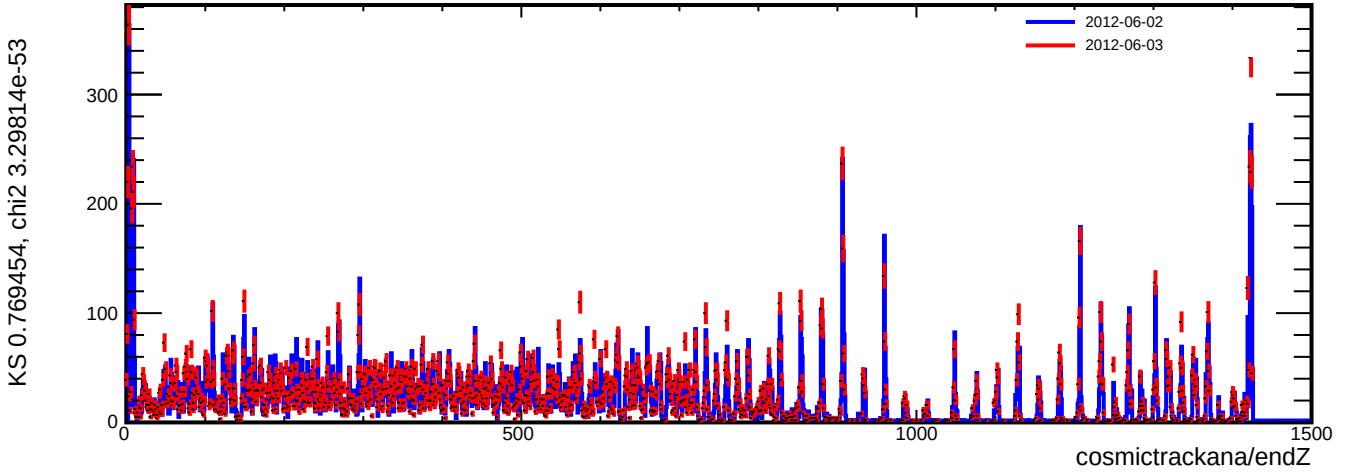

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/dcosYDiff

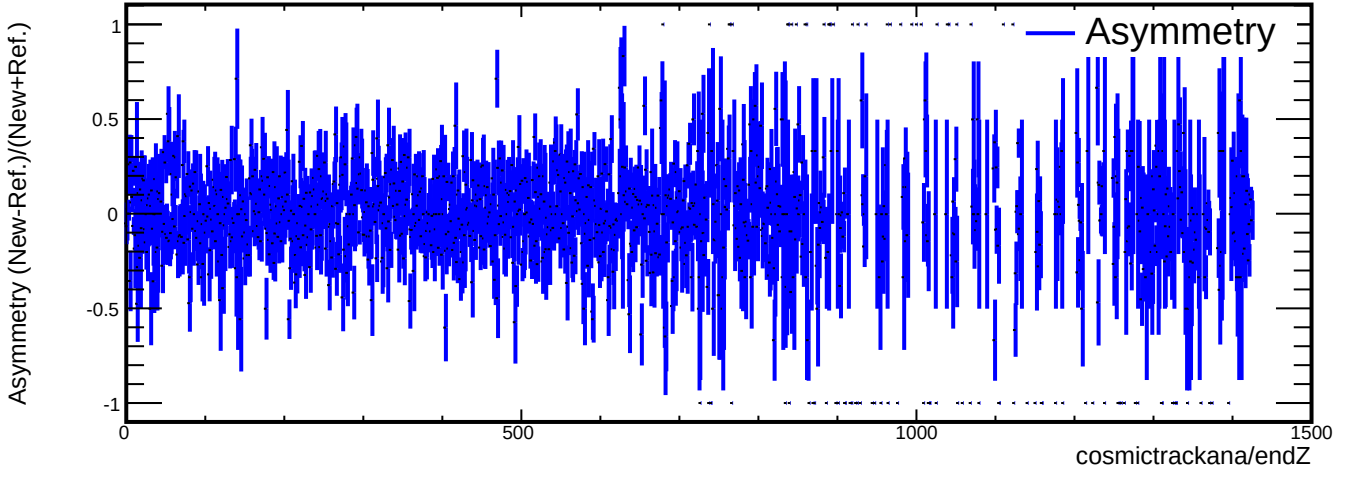

KS 0.0322133, chi2 1.13605e-12
2012-06-02
2012-06-03
1000
800
600
400
200
0
-200
-100
0
100
200
cosmictrackana/endX

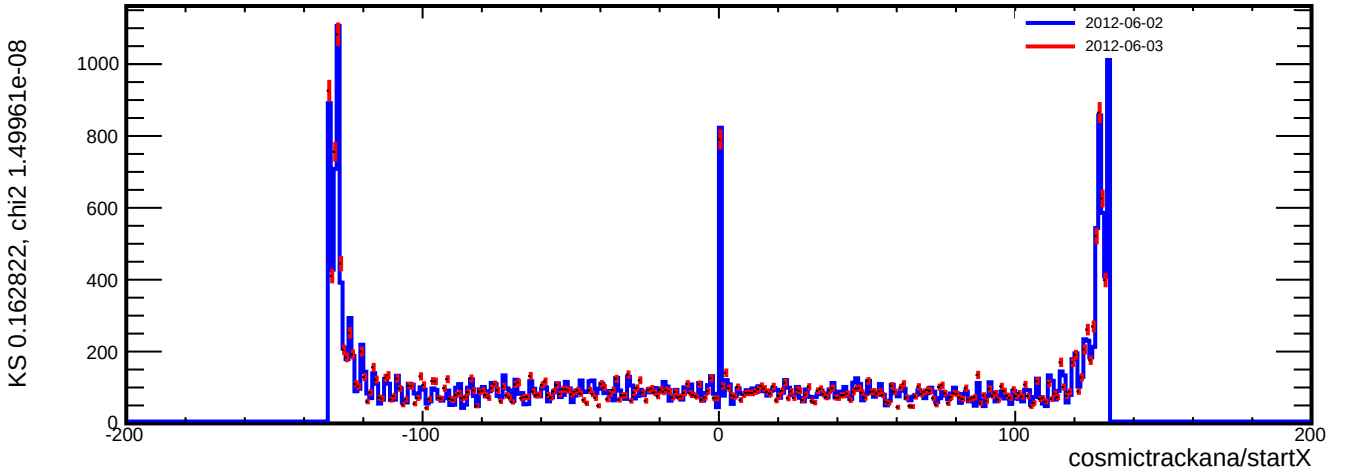

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-200
-100
0
100
200
cosmictrackana/endX

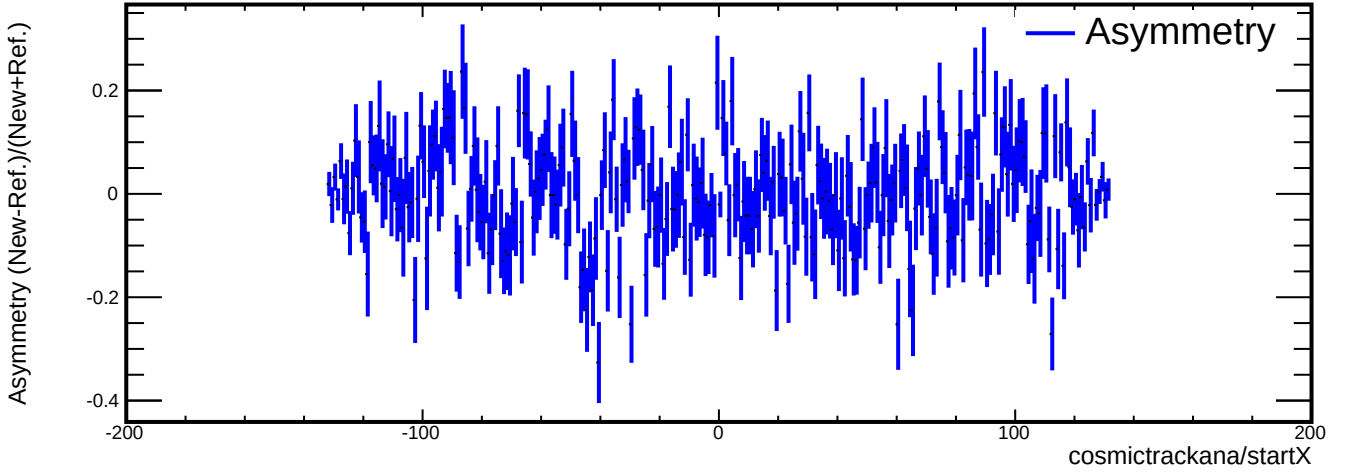

KS 0.110567, chi2 5.81642e-12
2012-06-02
2012-06-03
2500
2000
1500
1000
500
0
-200
-100
0
100
200
cosmictrackana/endY

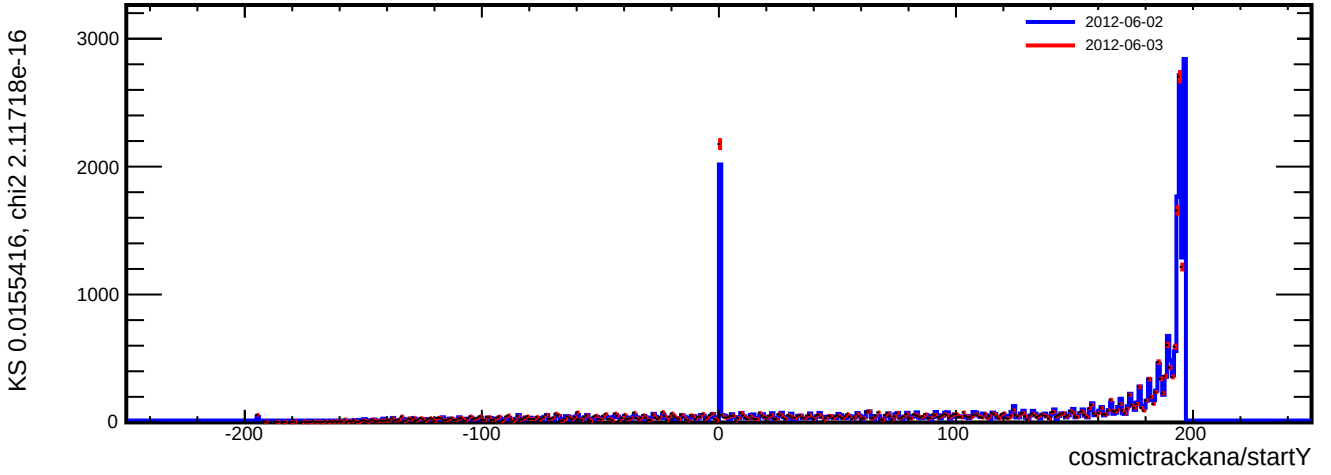

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/endY

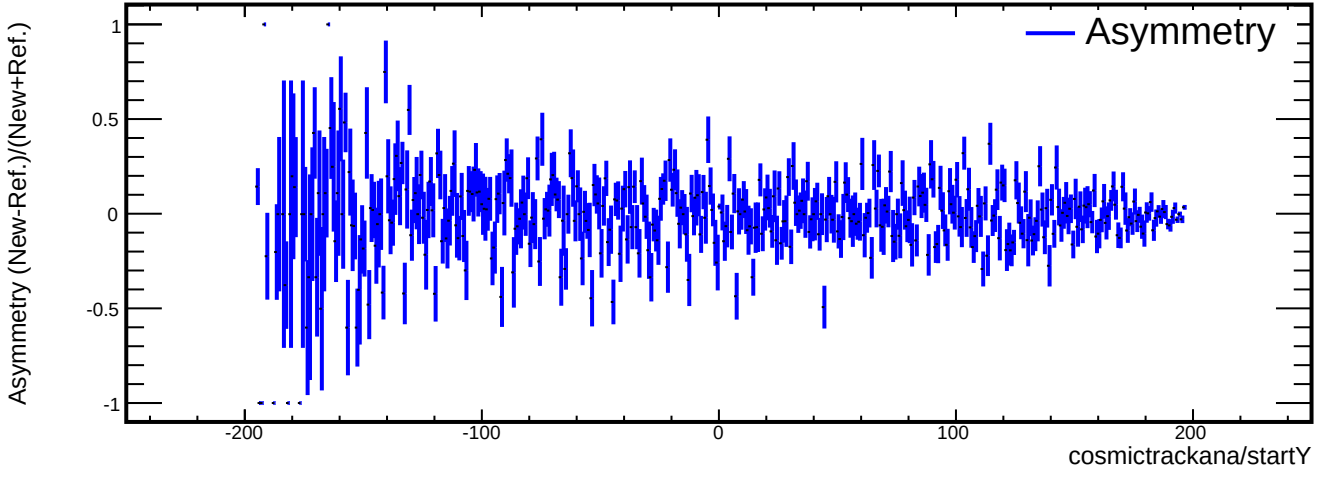

KS 0.769454, chi2 3.29814e-53
2012-06-02
2012-06-03
300
200
100
0
0
500
1000
1500
cosmictrackana/endZ

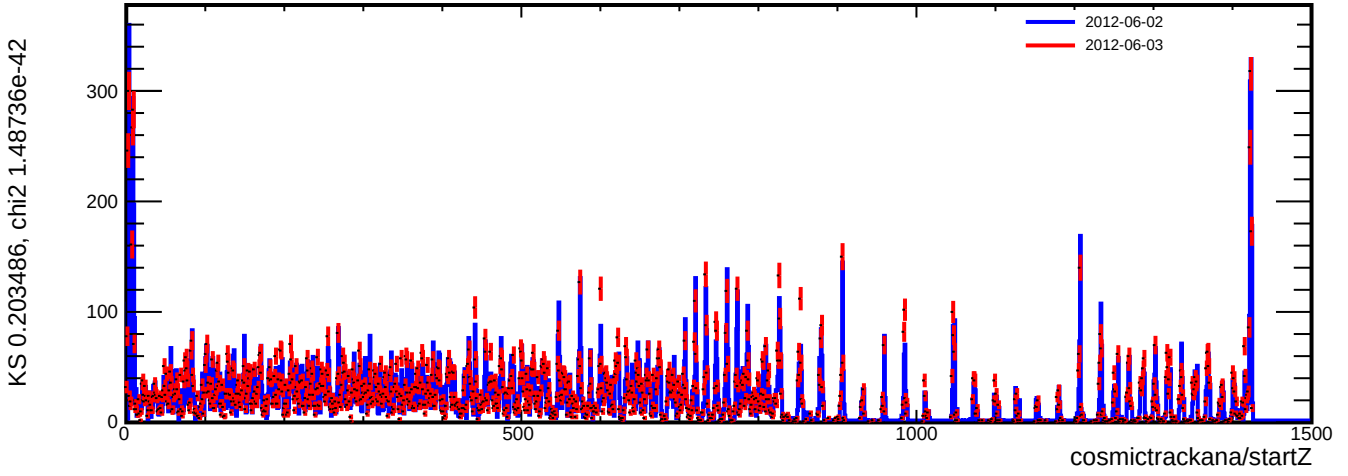

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/endZ

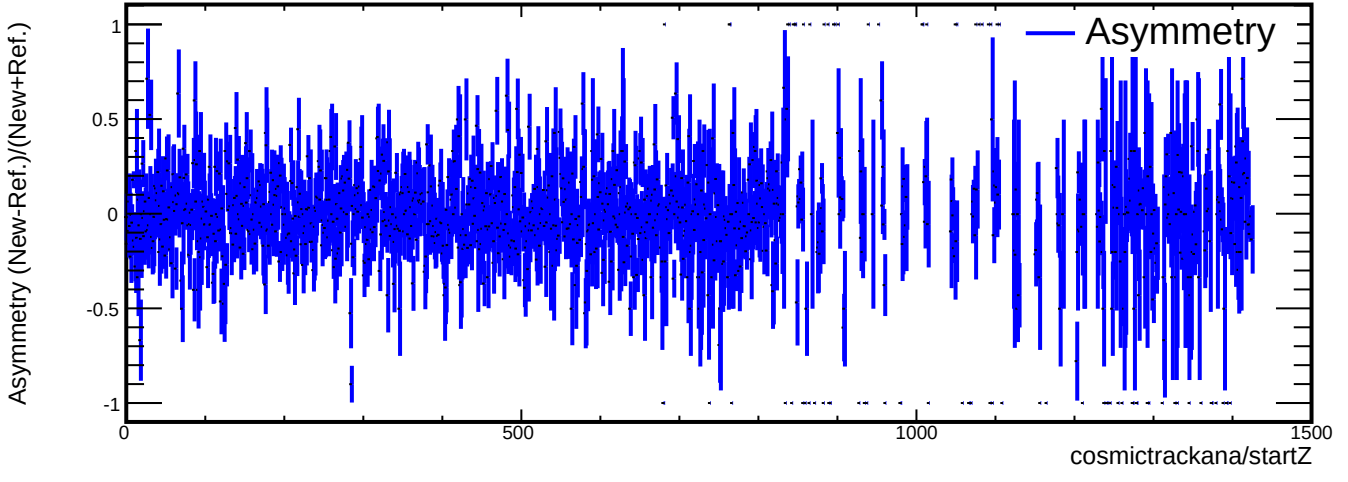

KS 0.162822, chi2 1.49961e-08
2012-06-02
2012-06-03
1000
800
600
400
200
0
-200
-100
0
100
200
cosmictrackana/startX

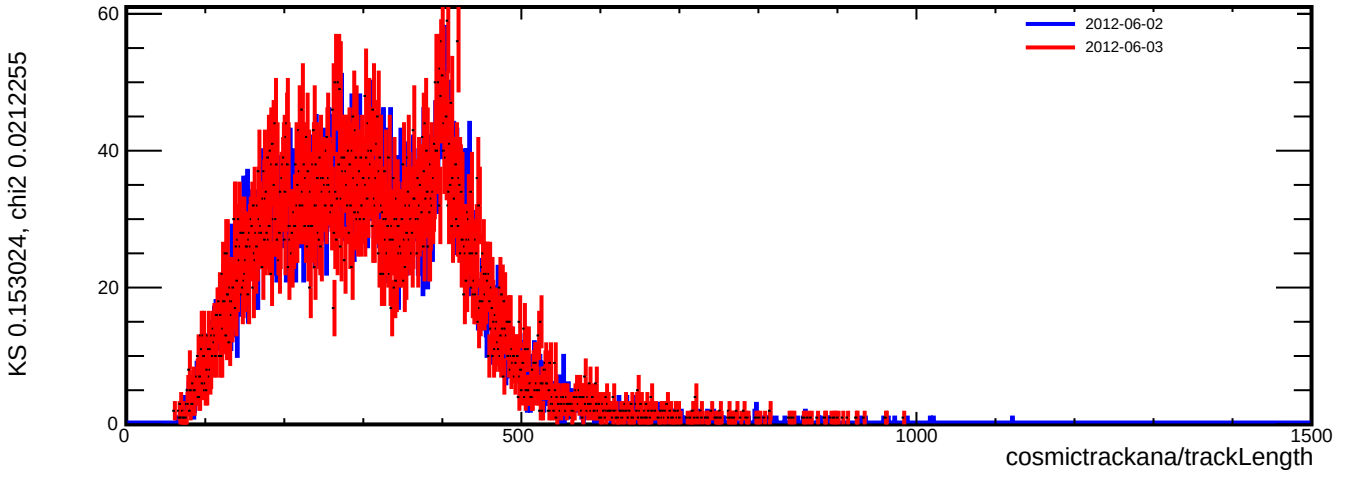

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0
-0.2
-0.4
-200
-100
0
100
200
cosmictrackana/startX

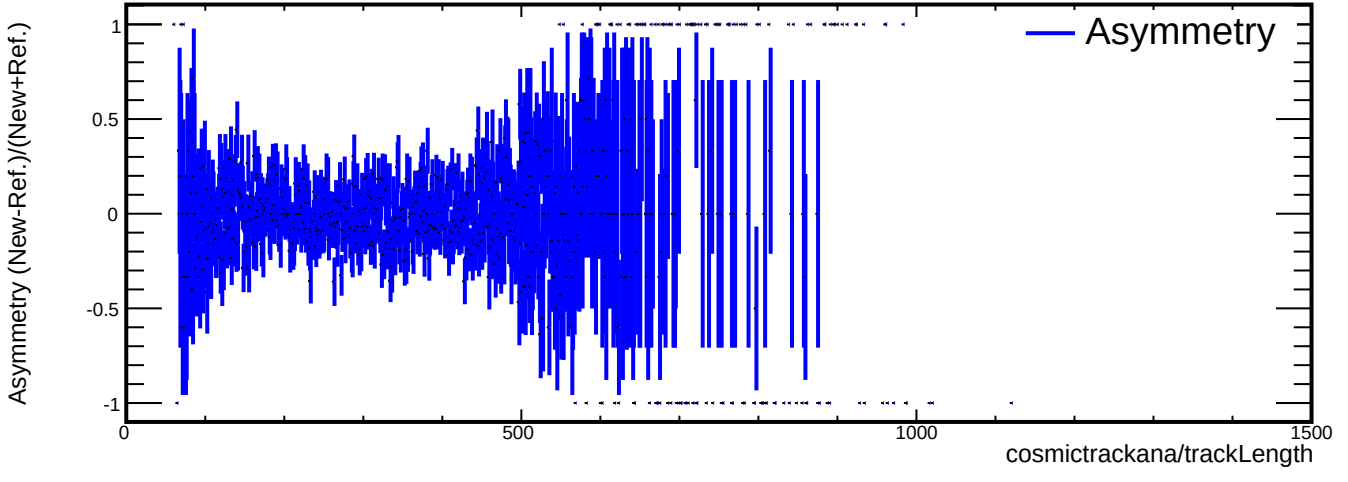

KS 0.0155416, chi2 2.11718e-16
2012-06-02
2012-06-03
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/startY

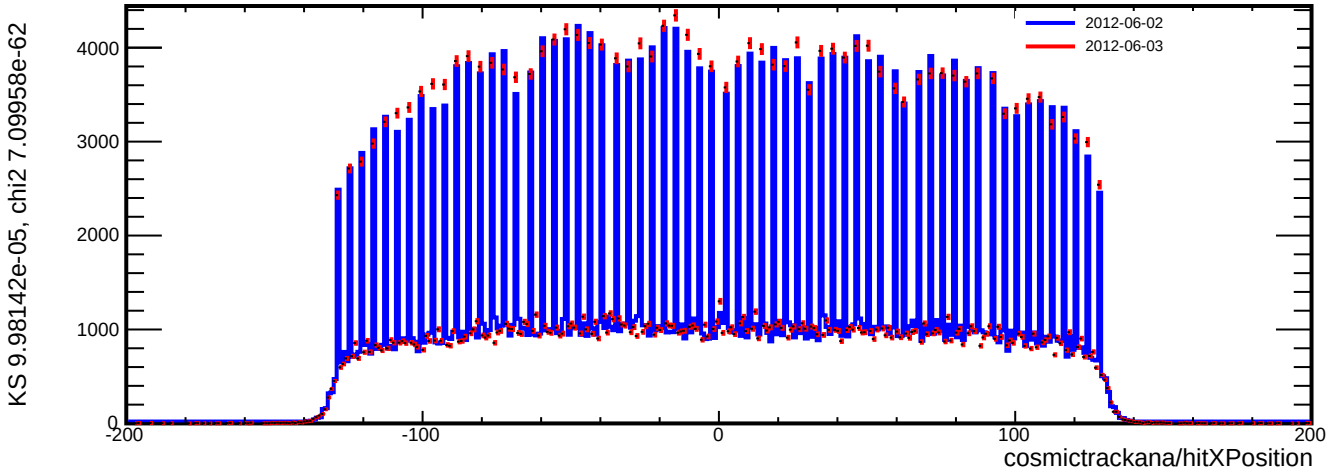

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/startY

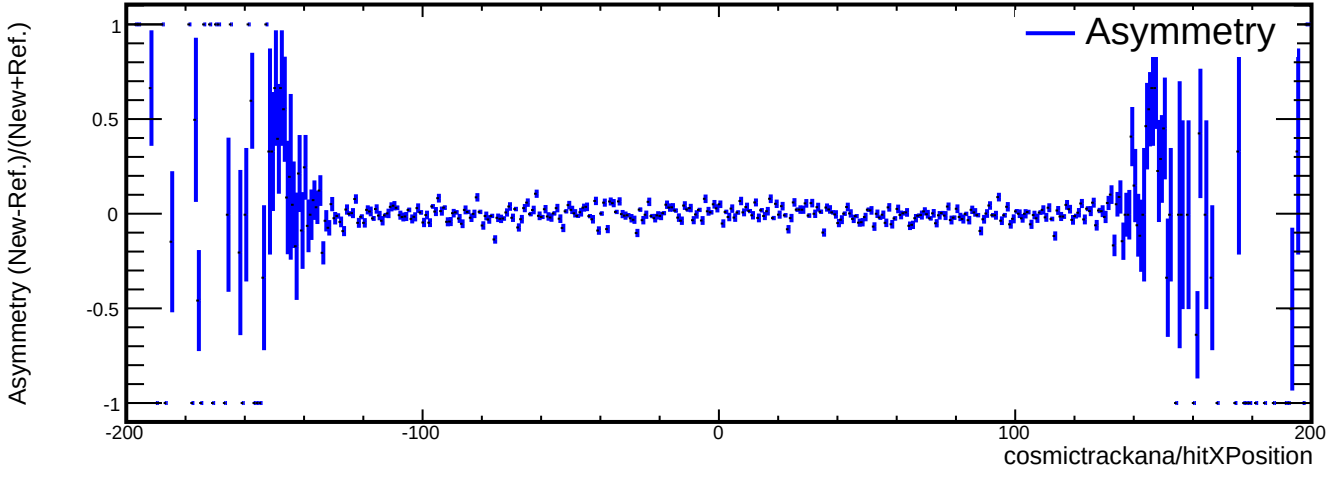

KS 0.203486, chi2 1.48736e-42
2012-06-02
2012-06-03
300
200
100
0
0
500
1000
1500
cosmictrackana/startZ

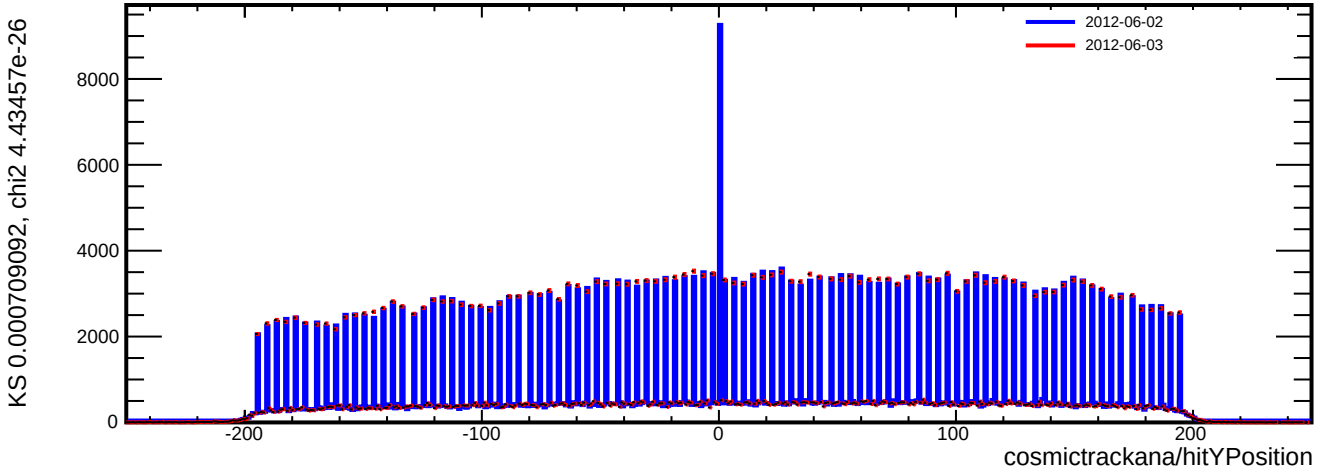

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/startZ

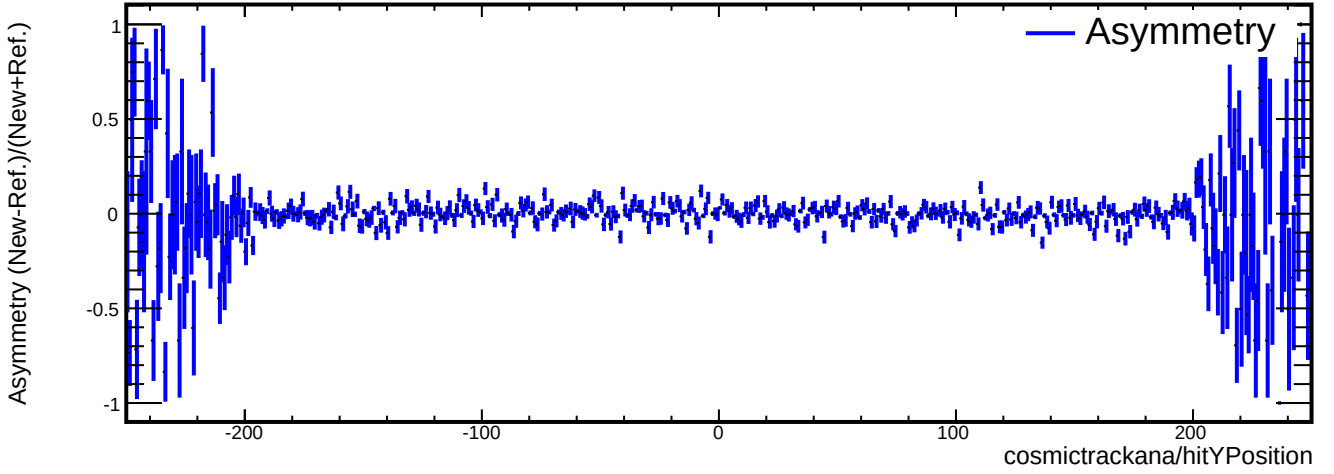

KS 0.153024, chi2 0.0212255
60
40
20
0
0
500
1000
1500
cosmictrackana/trackLength
2012-06-02
2012-06-03

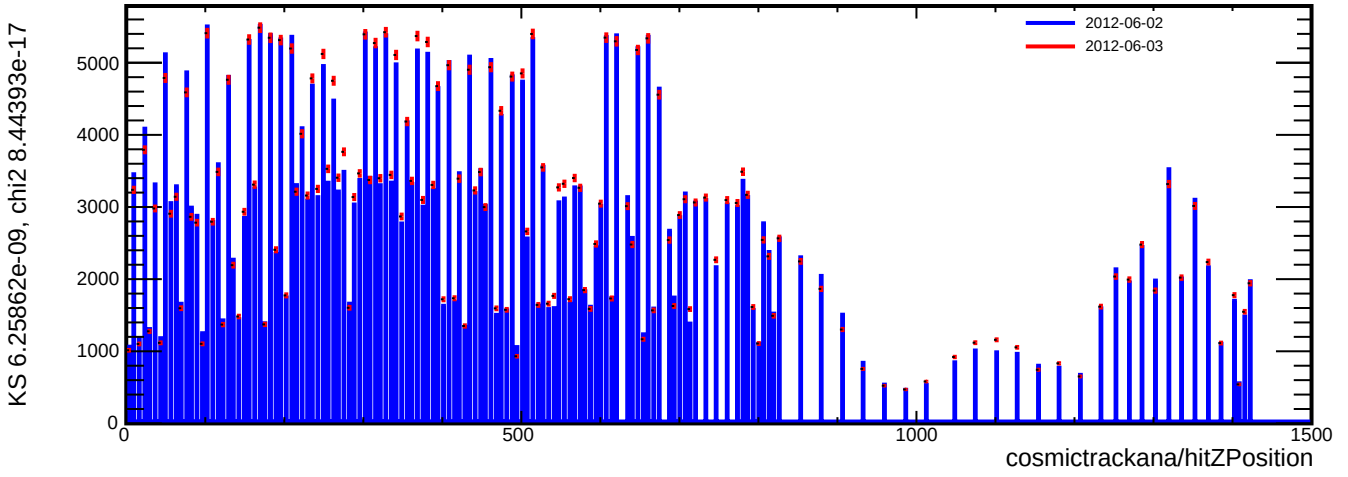

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/trackLength
Asymmetry

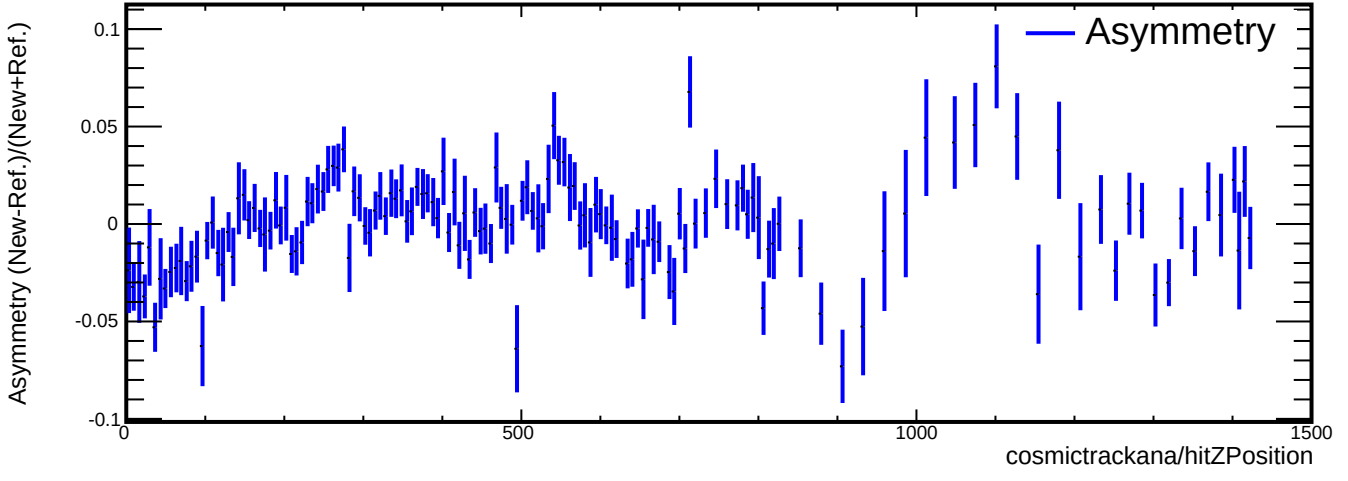

KS 9.98142e-05, chi2 7.09958e-62
2012-06-02
2012-06-03
4000
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/hitXPosition

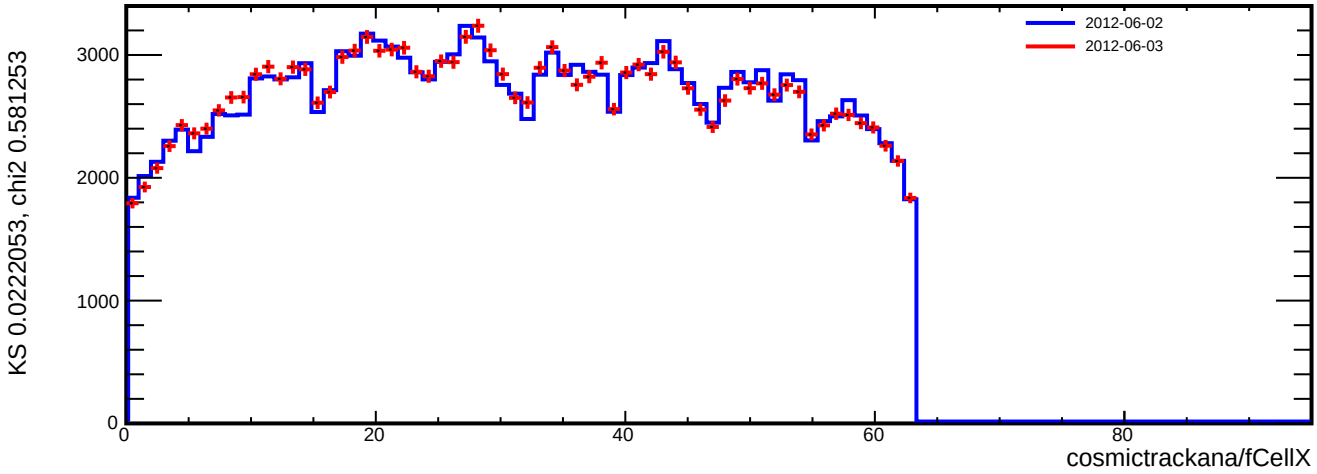

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitXPosition

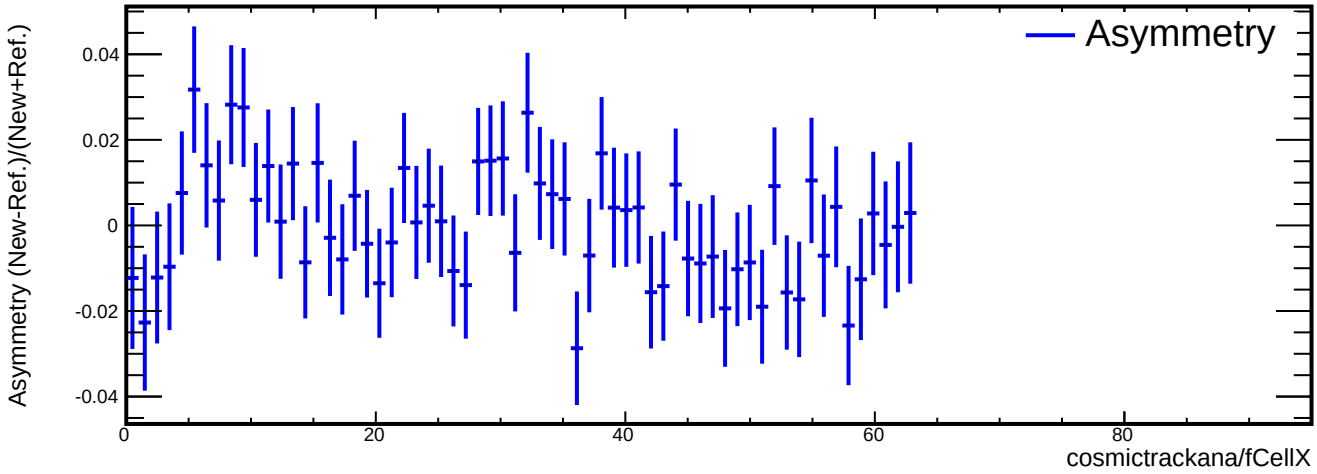

KS 0.000709092, chi2 4.43457e-26
2012-06-02
2012-06-03
8000
6000
4000
2000
0
-200
-100
0
100
200
cosmictrackana/hitYPosition

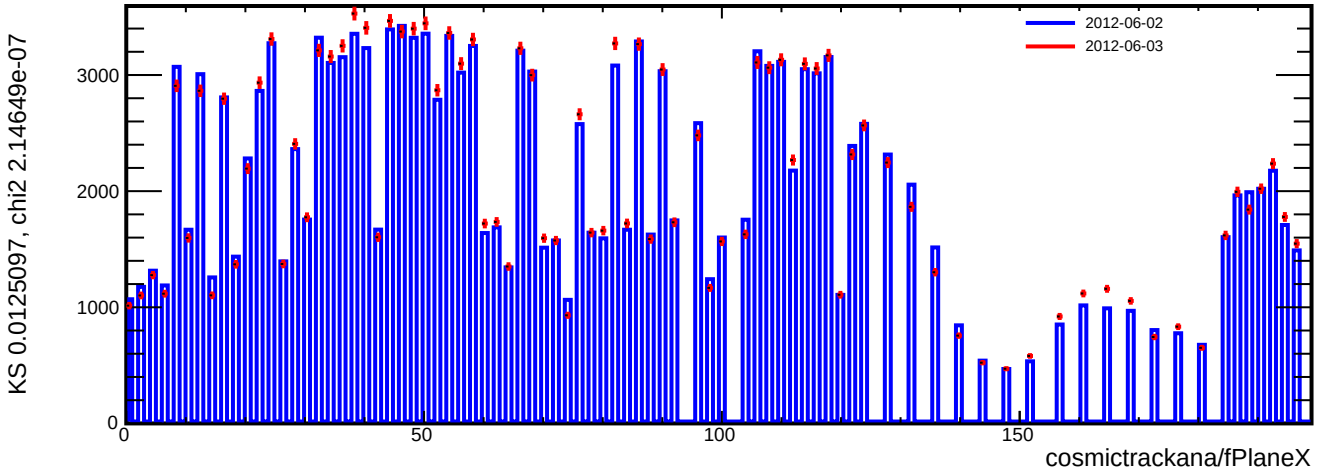

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitYPosition

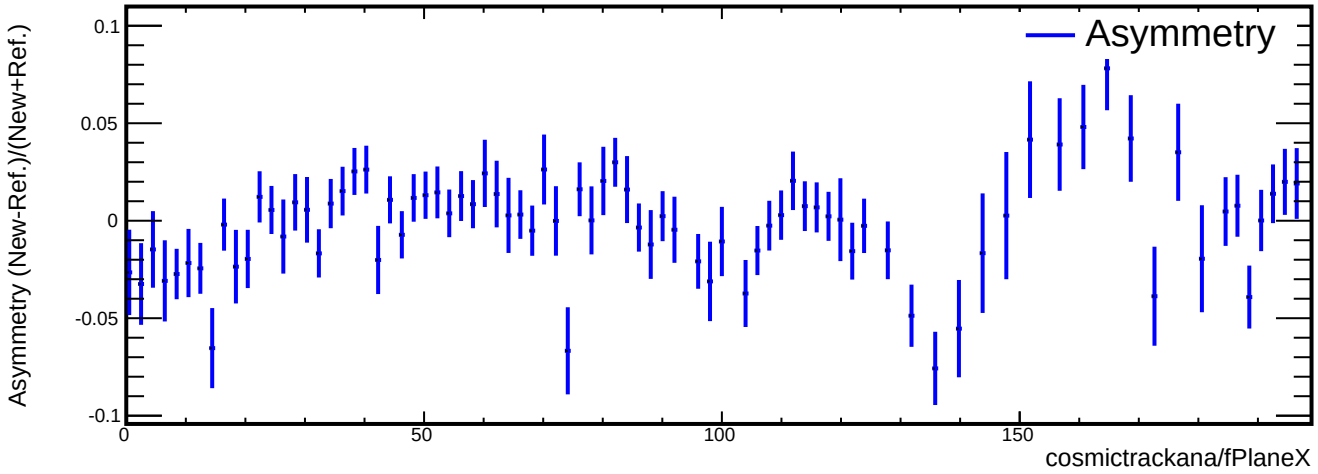

KS 6.25862e-09, chi2 8.44393e-17
2012-06-02
2012-06-03
0
1000
2000
3000
4000
5000
0
500
1000
1500
cosmictrackana/hitZPosition

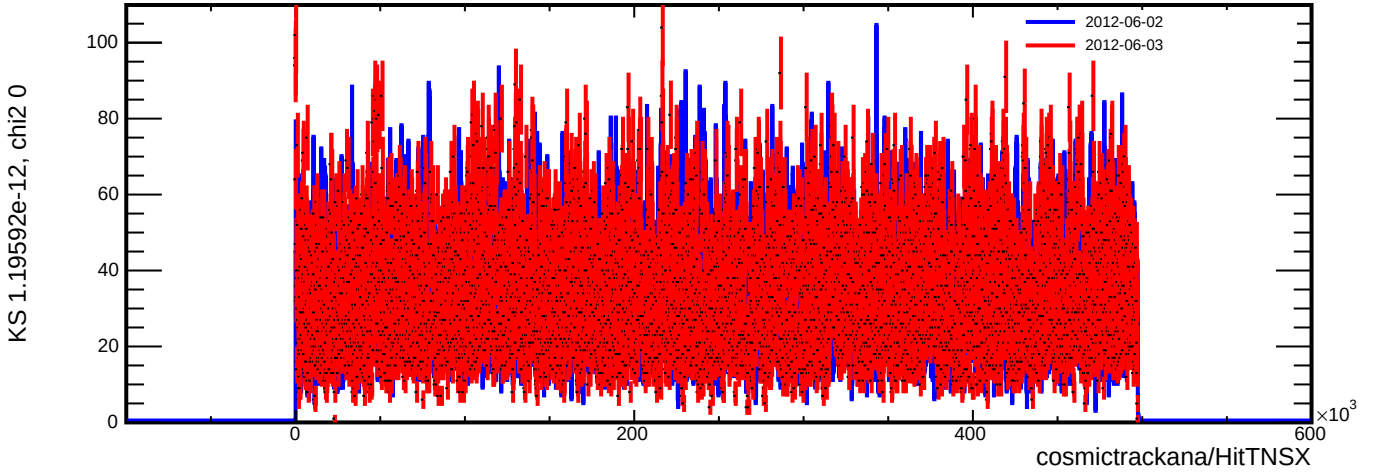

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.1
0.05
0
-0.05
-0.1
0
500
1000
1500
cosmictrackana/hitZPosition

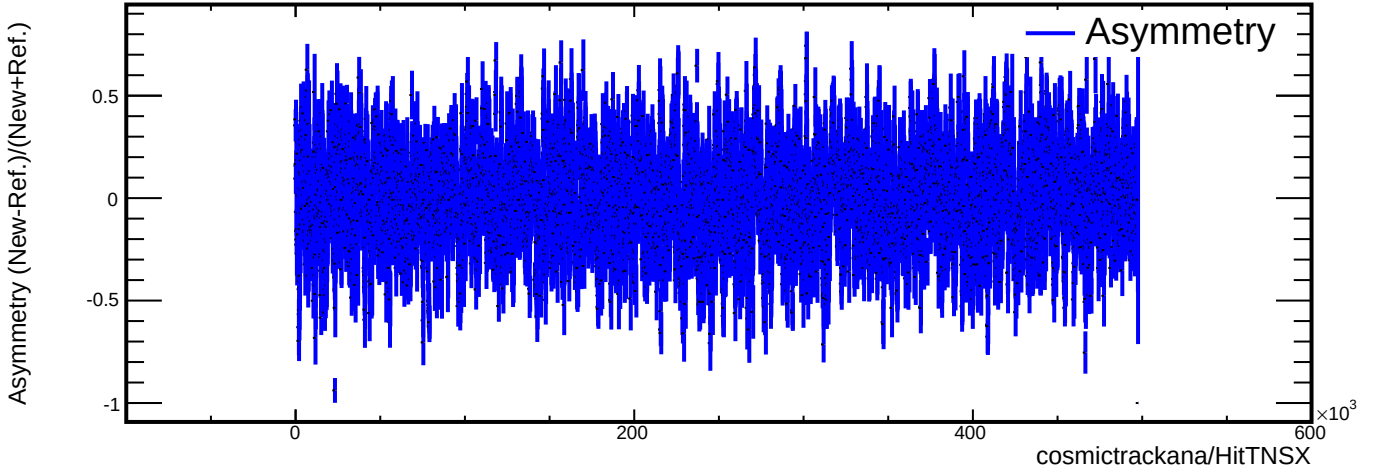

KS 0.0222053, chi2 0.581253
2012-06-02
2012-06-03
3000
2000
1000
0
0
20
40
60
80
cosmictrackana/fCellX

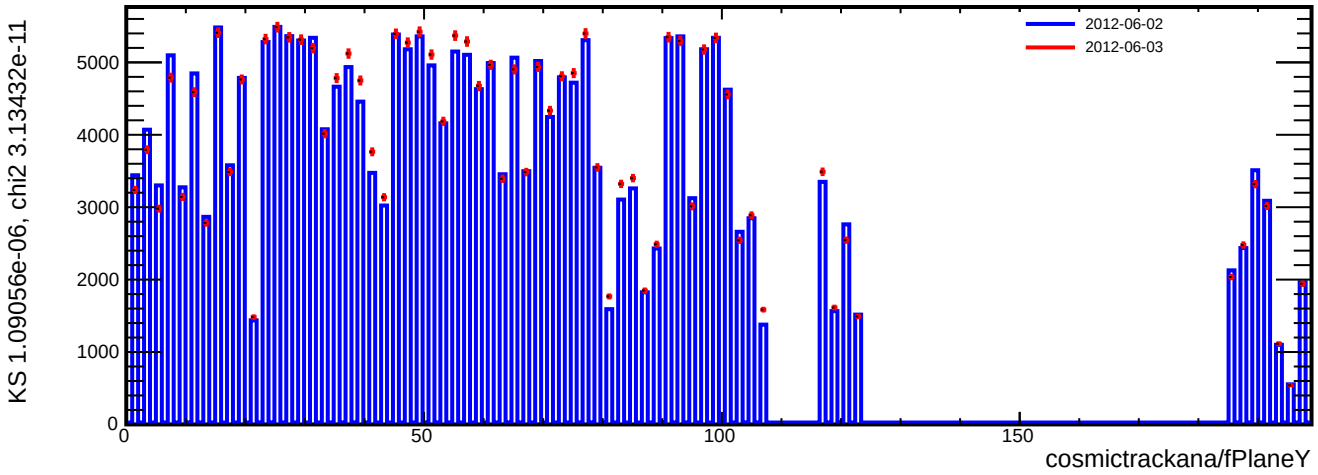

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.04
0.02
0
-0.02
-0.04
0
20
40
60
80
cosmictrackana/fCellX

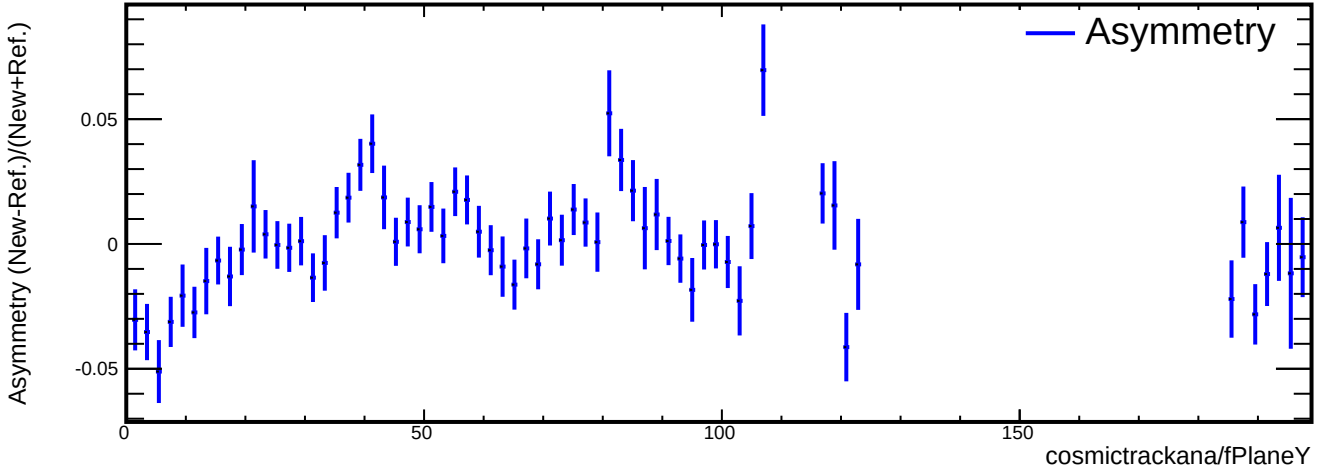

KS 0.0125097, chi2 2.14649e-07
2012-06-02
2012-06-03
0
1000
2000
3000
0
50
100
150
cosmictrackana/fPlaneX

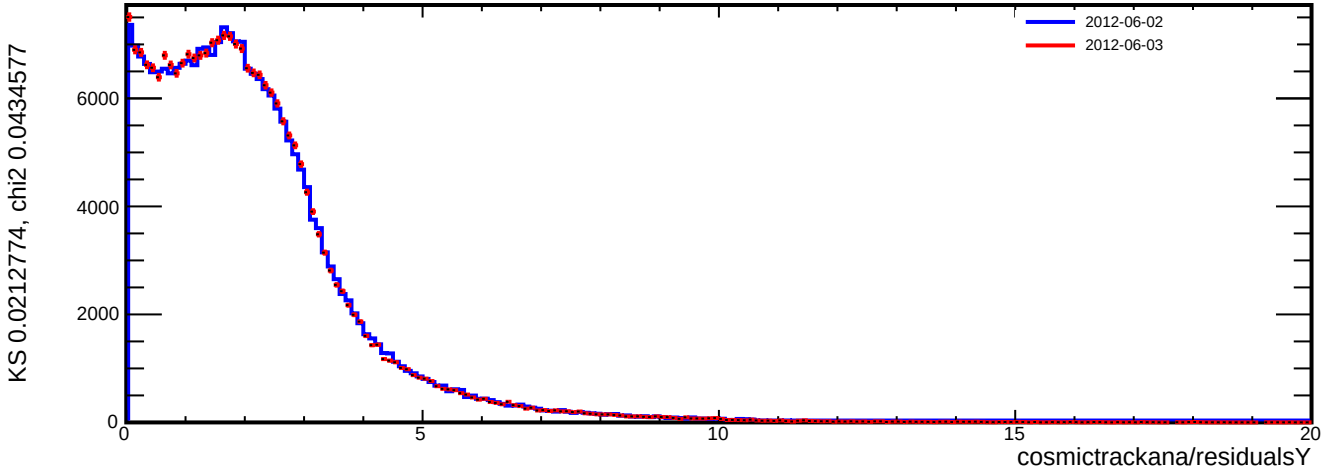

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.1
0.05
0
-0.05
-0.1
0
50
100
150
cosmictrackana/fPlaneX

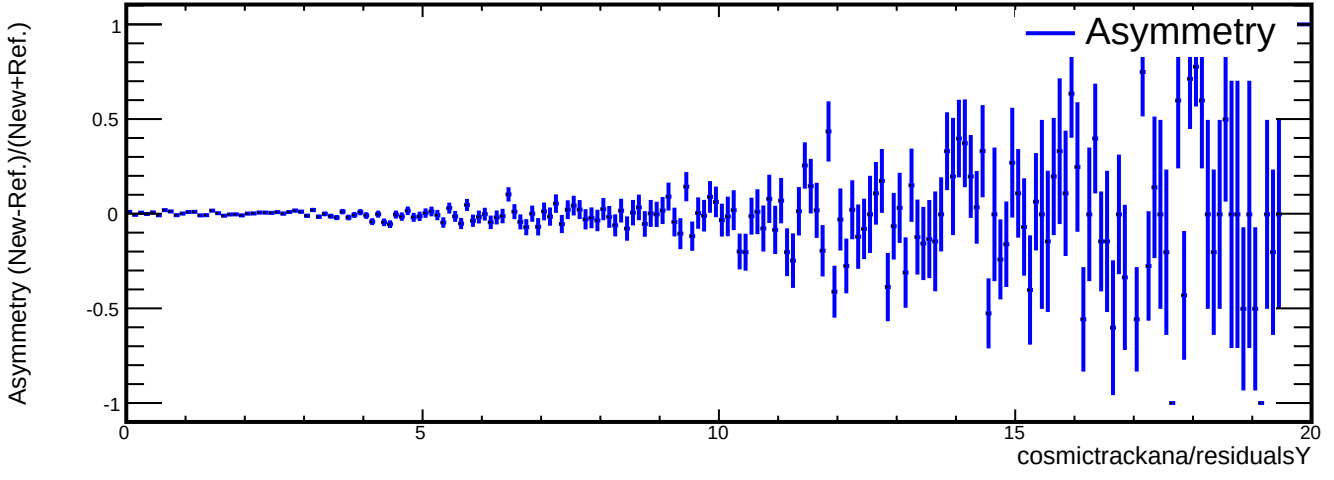

2012-06-02
2012-06-03
KS 1.19592e-12, chi2 0
100
80
60
40
20
0
0
200
400
600
×10^3
cosmictrackana/HitTNSX

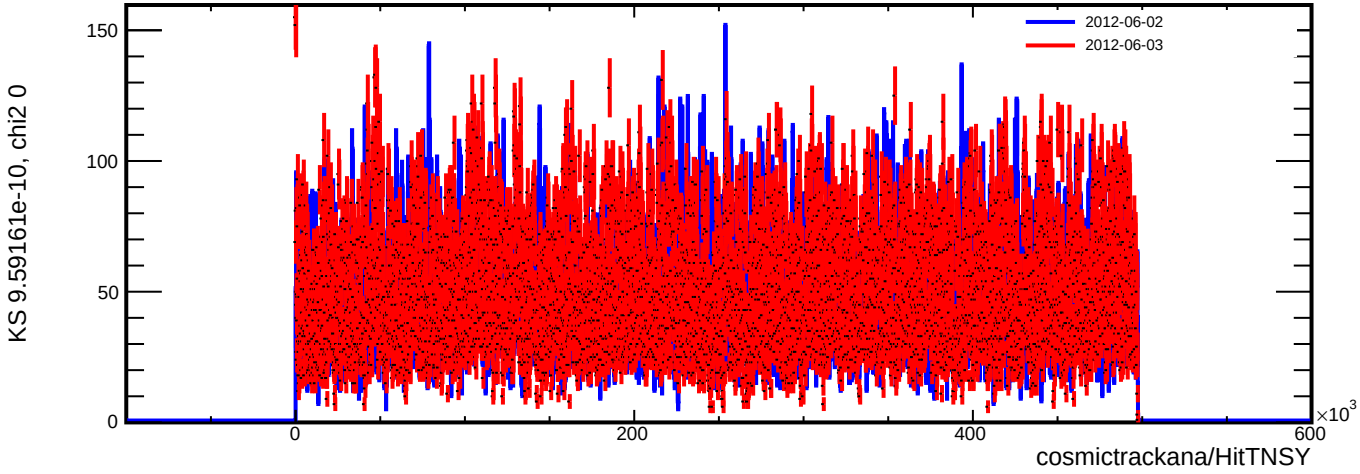

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0.5
0
-0.5
-1
0
200
400
600
×10^3
cosmictrackana/HitTNSX

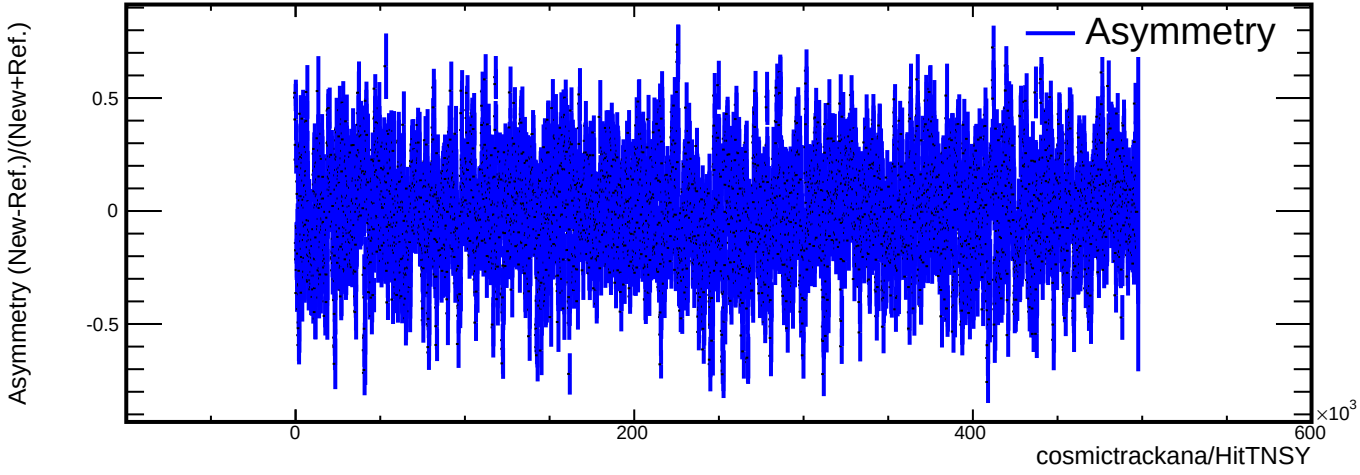

KS 1.09056e-06, chi2 3.13432e-11
2012-06-02
2012-06-03
5000
4000
3000
2000
1000
0
0
50
100
150
cosmictrackana/fPlaneY


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


KS 0.0212774, chi2 0.0434577
2012-06-02
2012-06-03
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 9.59161e-10, chi2 0
150
100
50
0
0
200
400
600
×10^3
cosmictrackana/HitTNSY
2012-06-02
2012-06-03


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