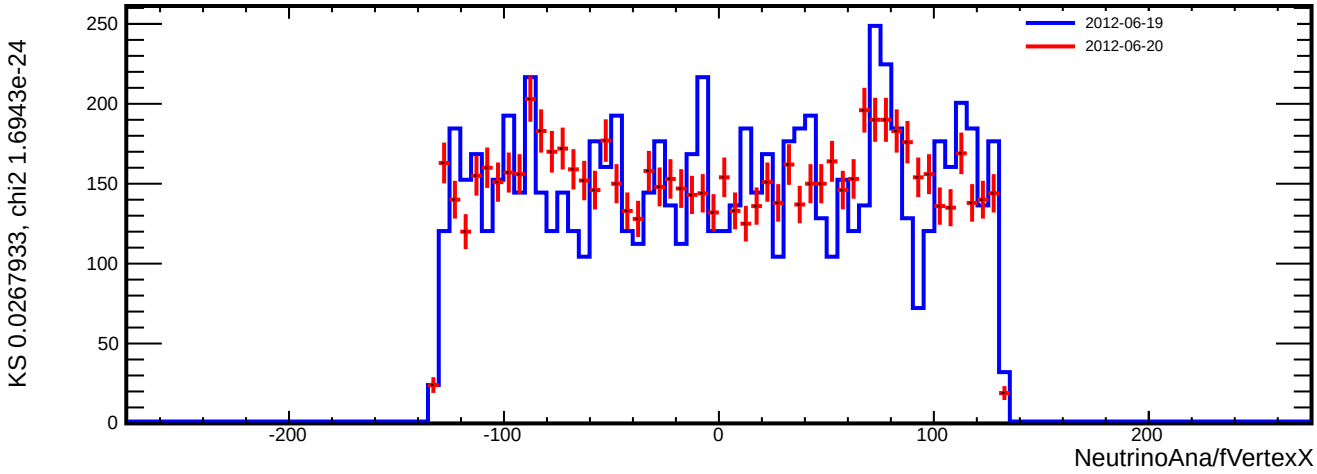
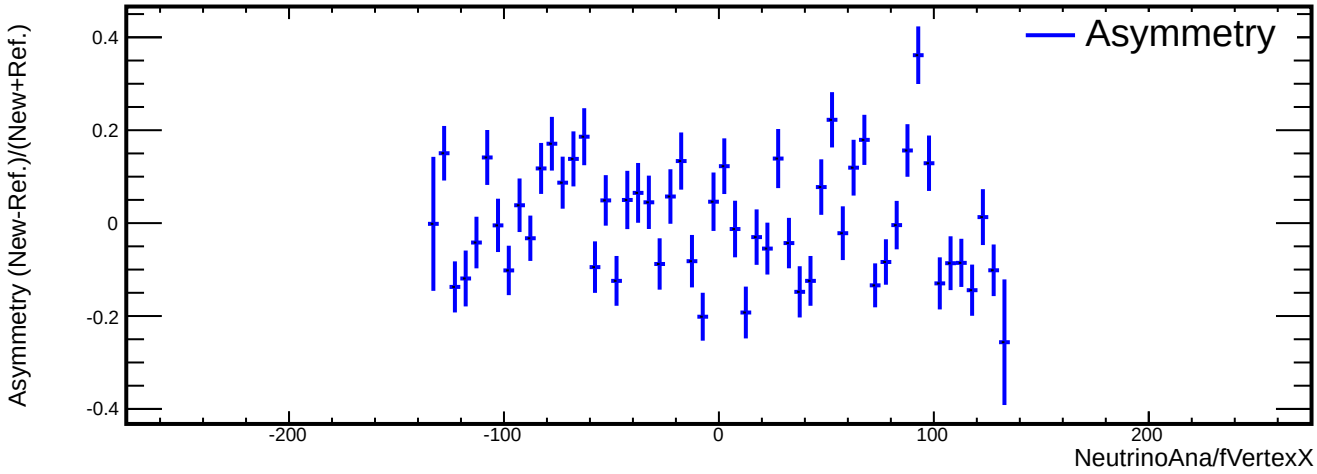
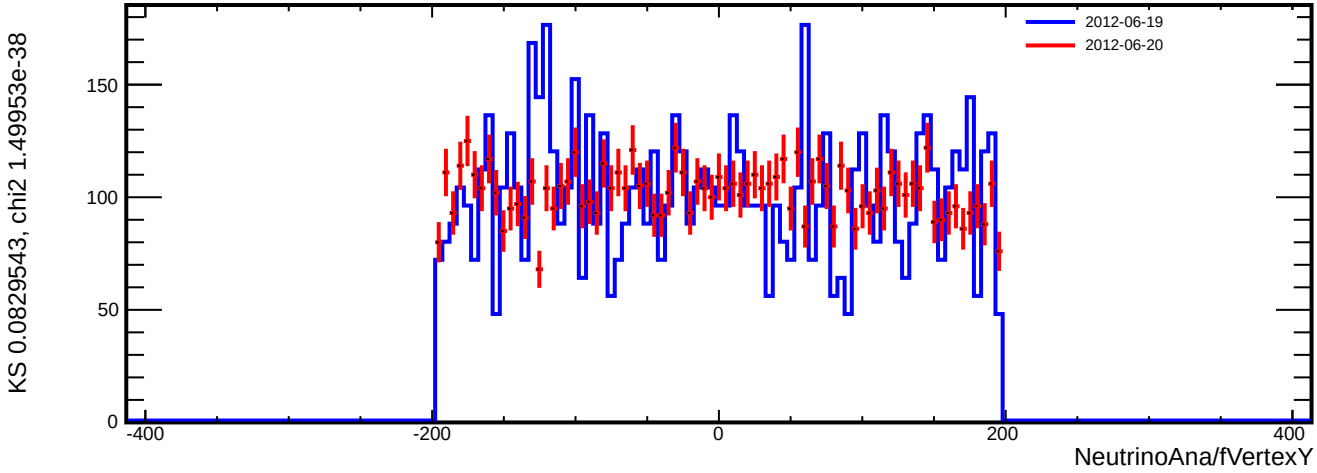
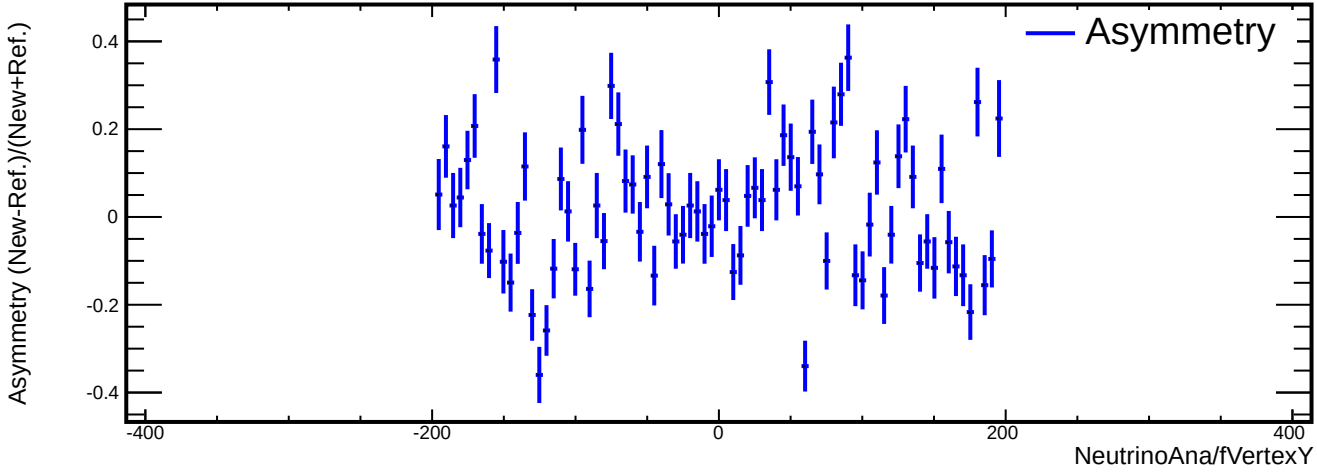
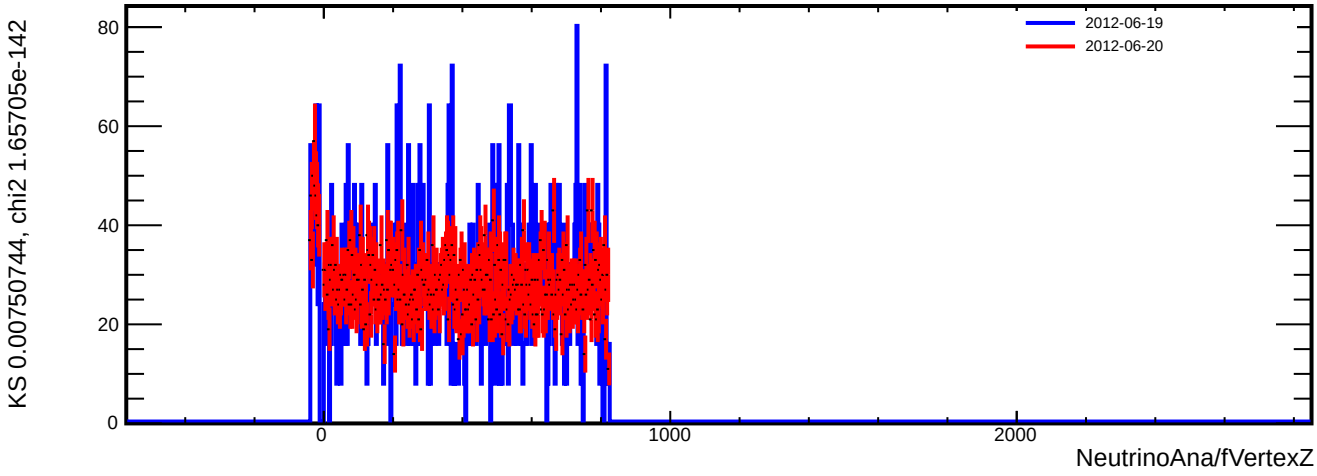
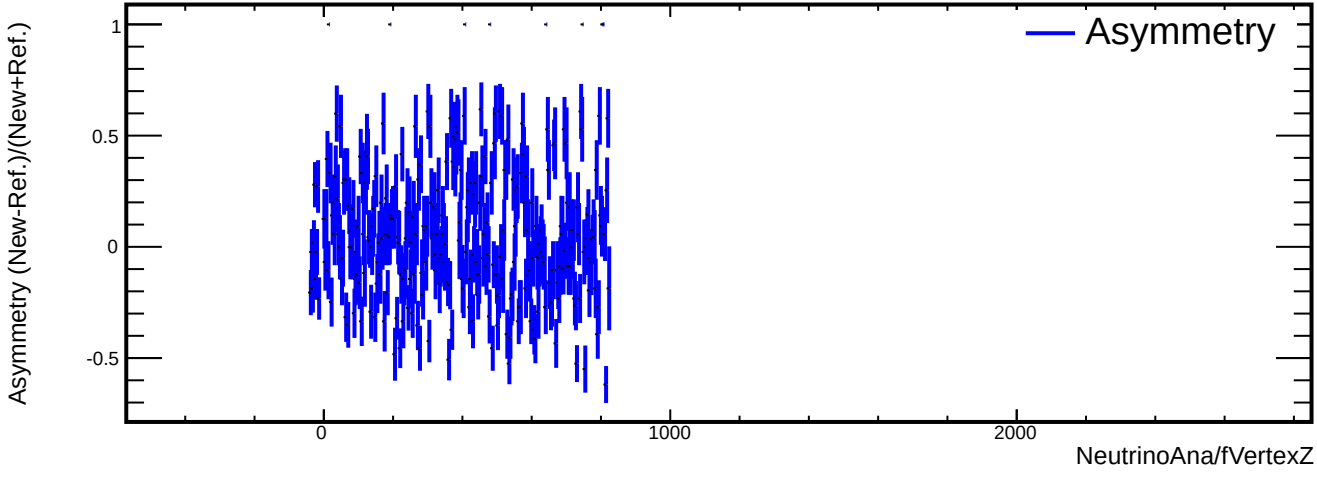

KS 0.0267933, chi2 1.6943e-24
2012-06-19
2012-06-20
NeutrinoAna/fVertexX

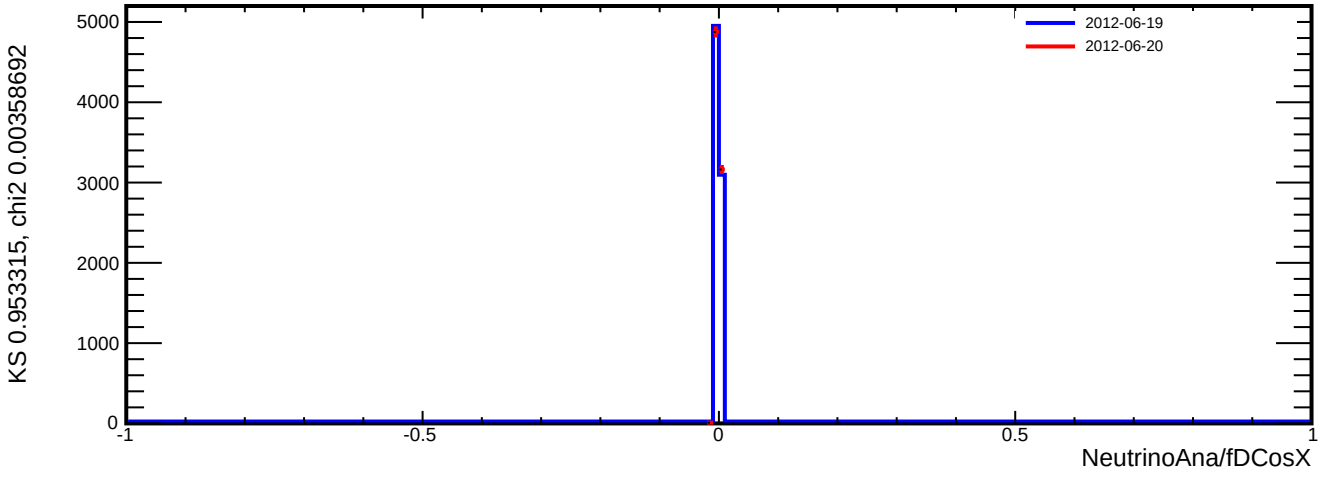

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fVertexX

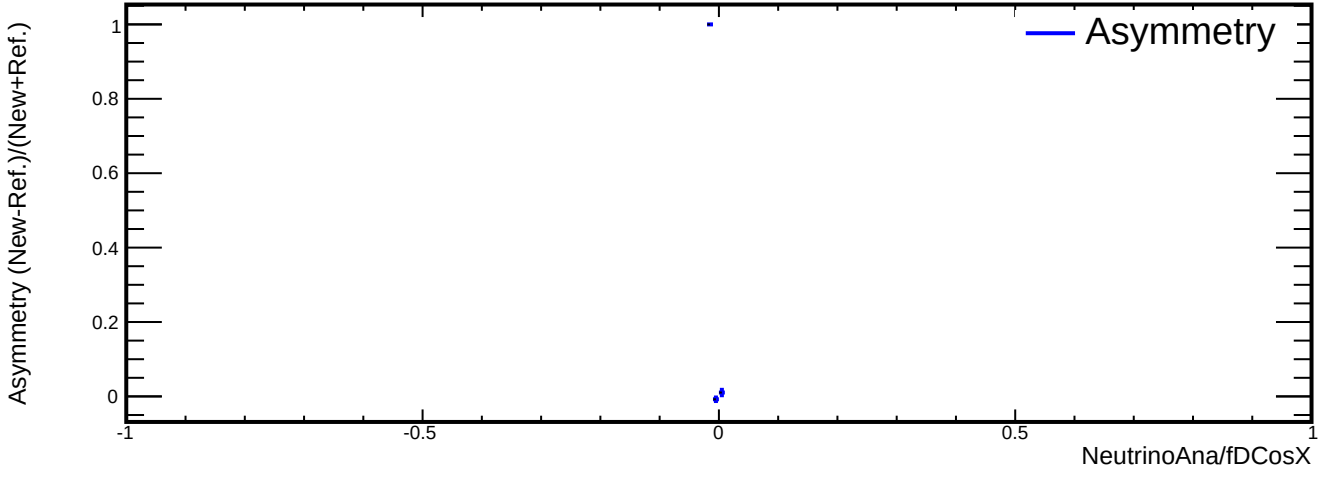

KS 0.0829543, chi2 1.49953e-38
2012-06-19
2012-06-20
150
100
50
0
-400
-200
0
200
400
NeutrinoAna/fVertexY

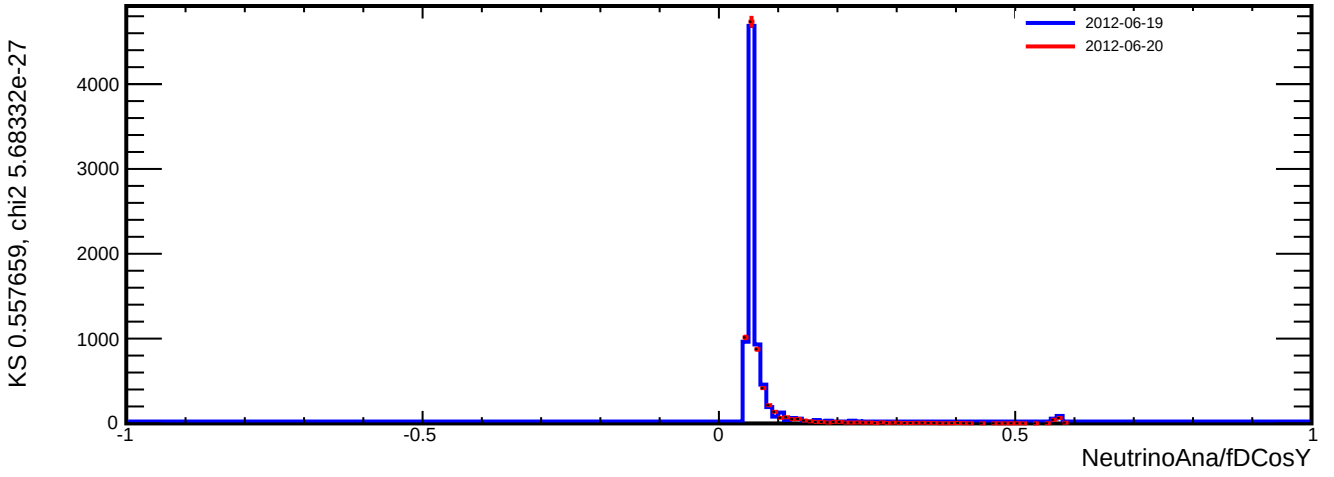

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.4
0.2
0
-0.2
-0.4
-400
-200
0
200
400
NeutrinoAna/fVertexY

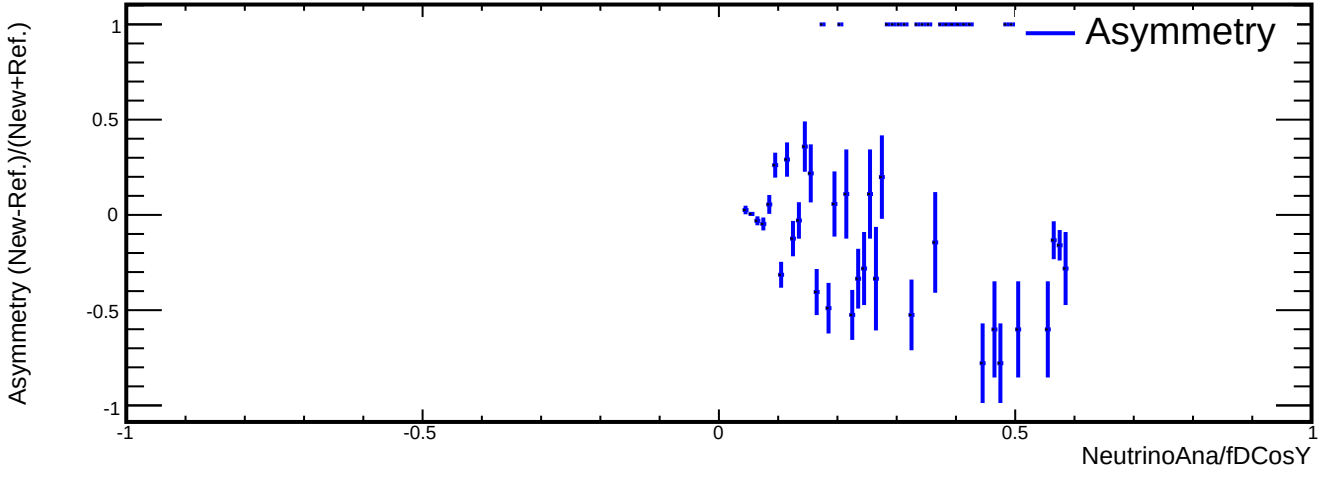

KS 0.00750744, chi2 1.65705e-142
80
60
40
20
0
0
1000
2000
NeutrinoAna/fVertexZ
2012-06-19
2012-06-20

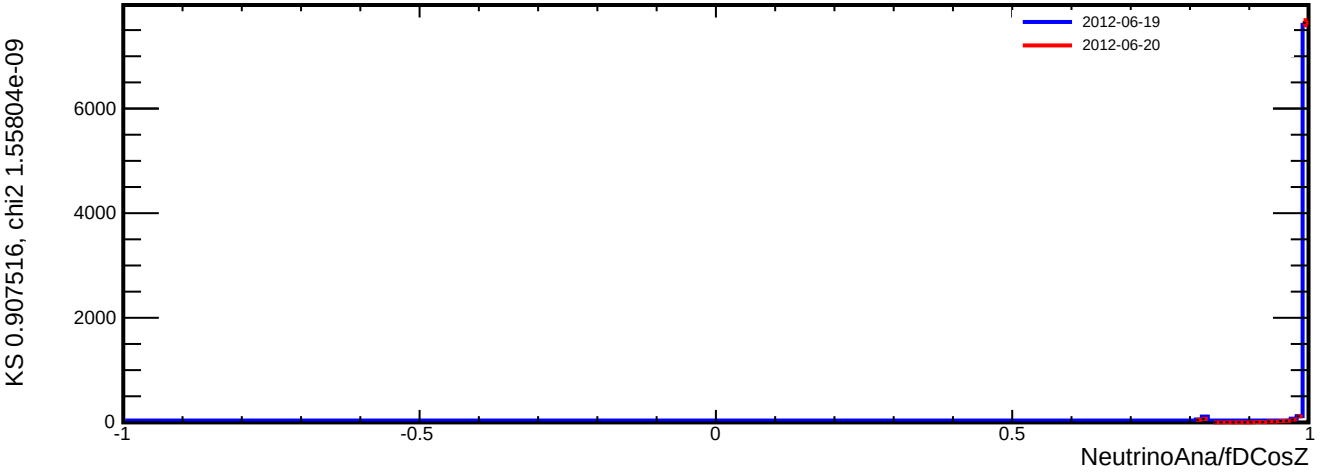

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
0
1000
2000
NeutrinoAna/fVertexZ
Asymmetry

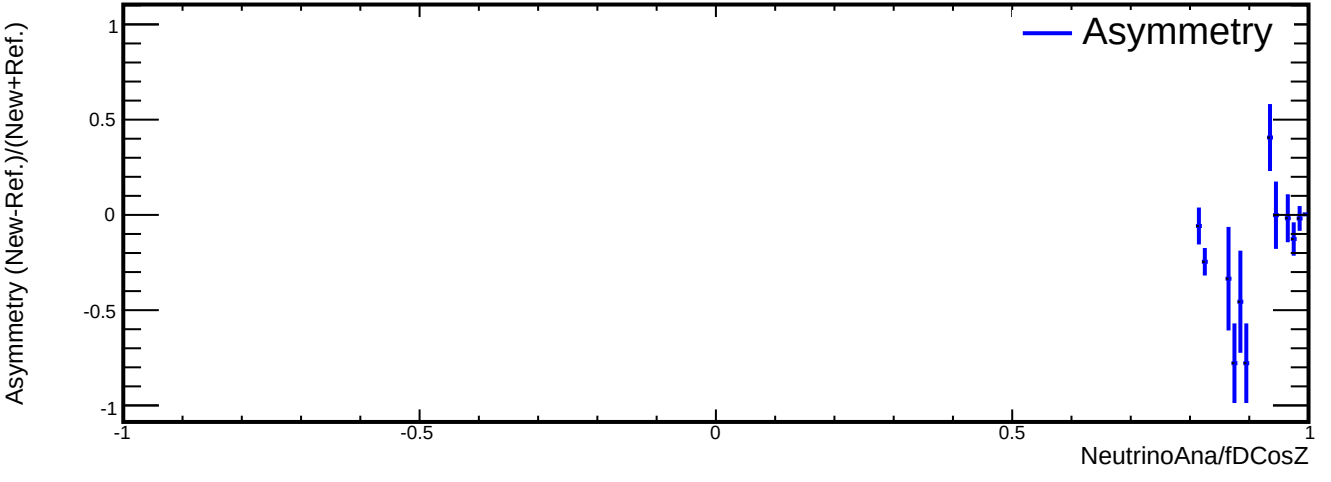

KS 0.953315, chi2 0.00358692
5000
4000
3000
2000
1000
0
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosX
2012-06-19
2012-06-20

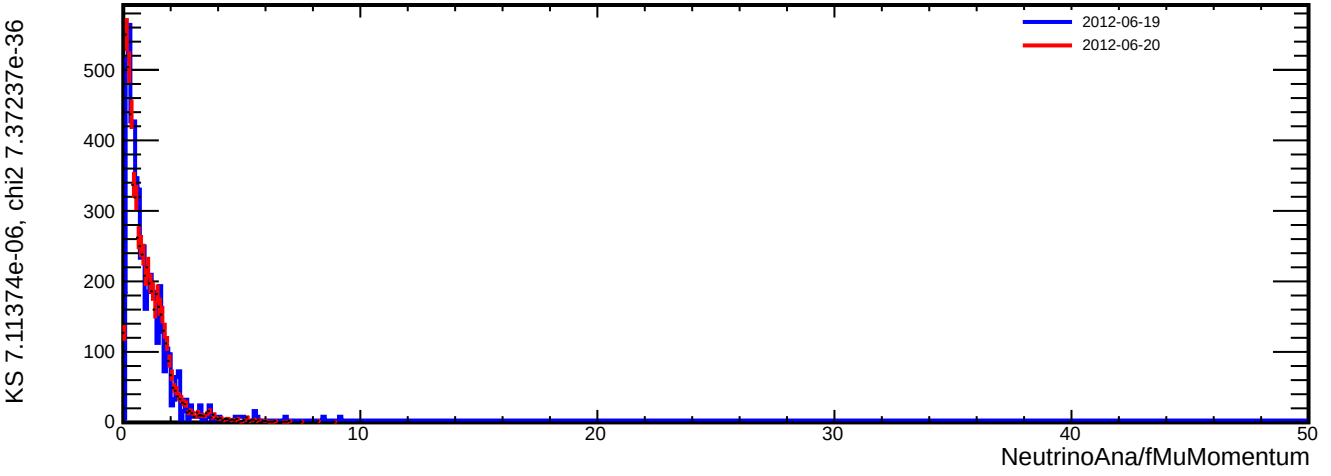

Asymmetry (New-Ref.)/(New+Ref.)
1
0.8
0.6
0.4
0.2
0
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosX
Asymmetry

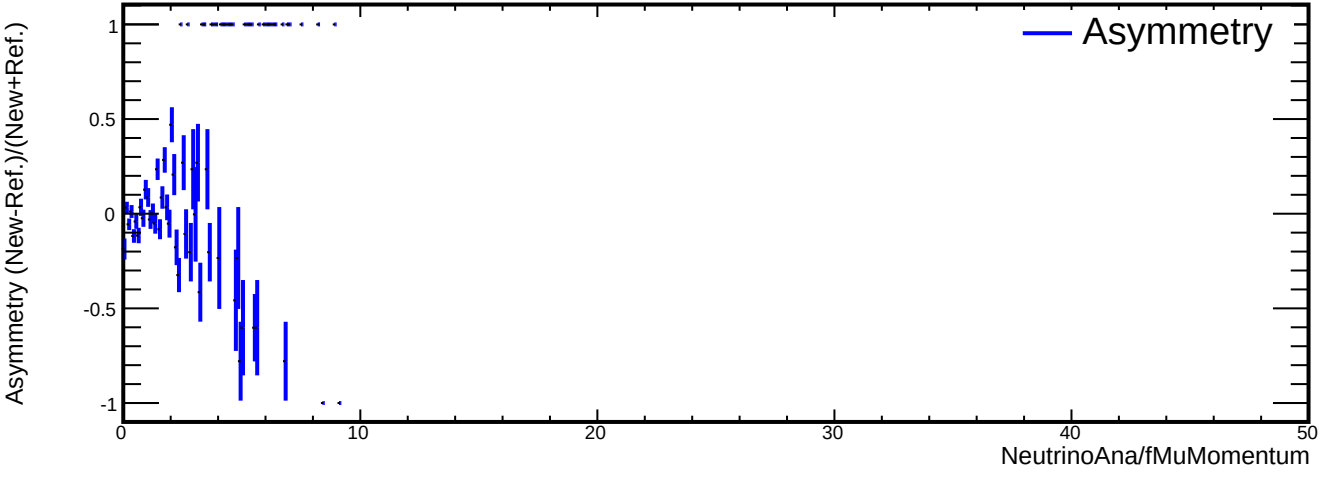

KS 0.557659, chi2 5.68332e-27
2012-06-19
2012-06-20
4000
3000
2000
1000
0
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosY

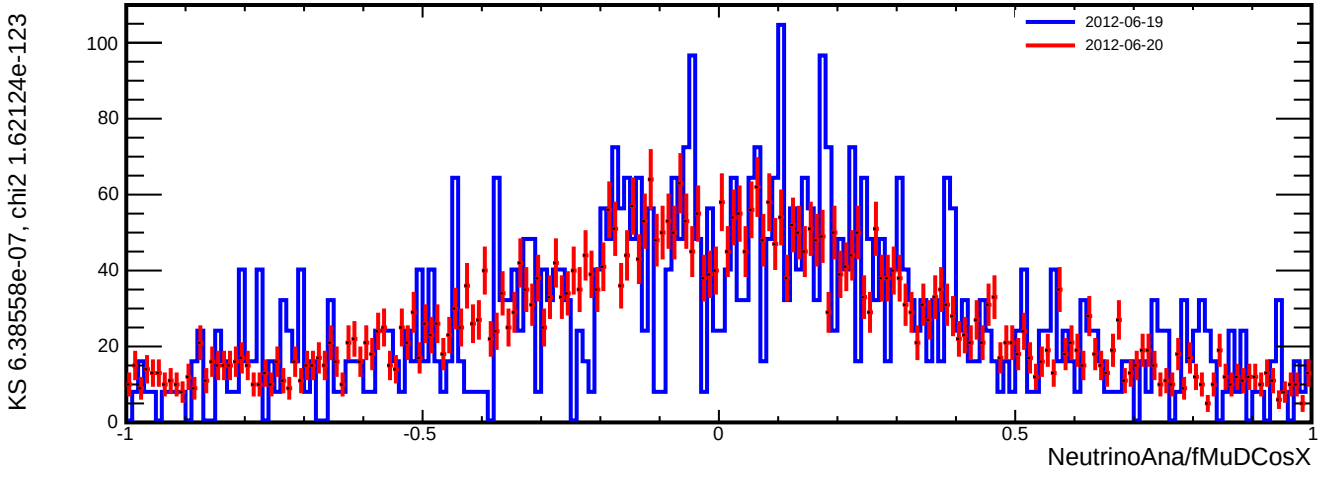

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosY

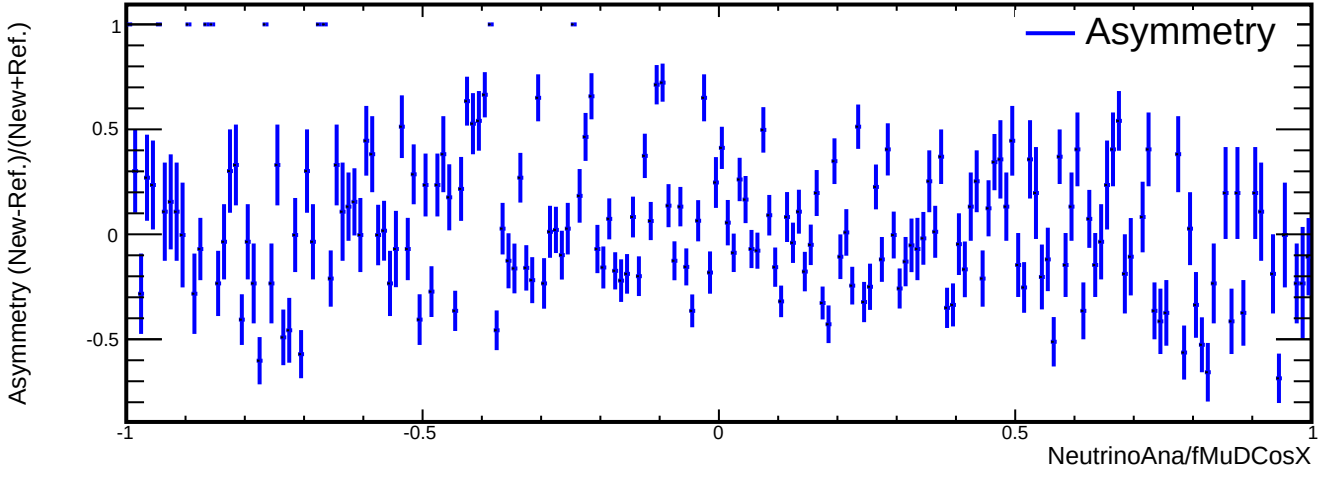

KS 0.907516, chi2 1.55804e-09
2012-06-19
2012-06-20
6000
4000
2000
0
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosZ

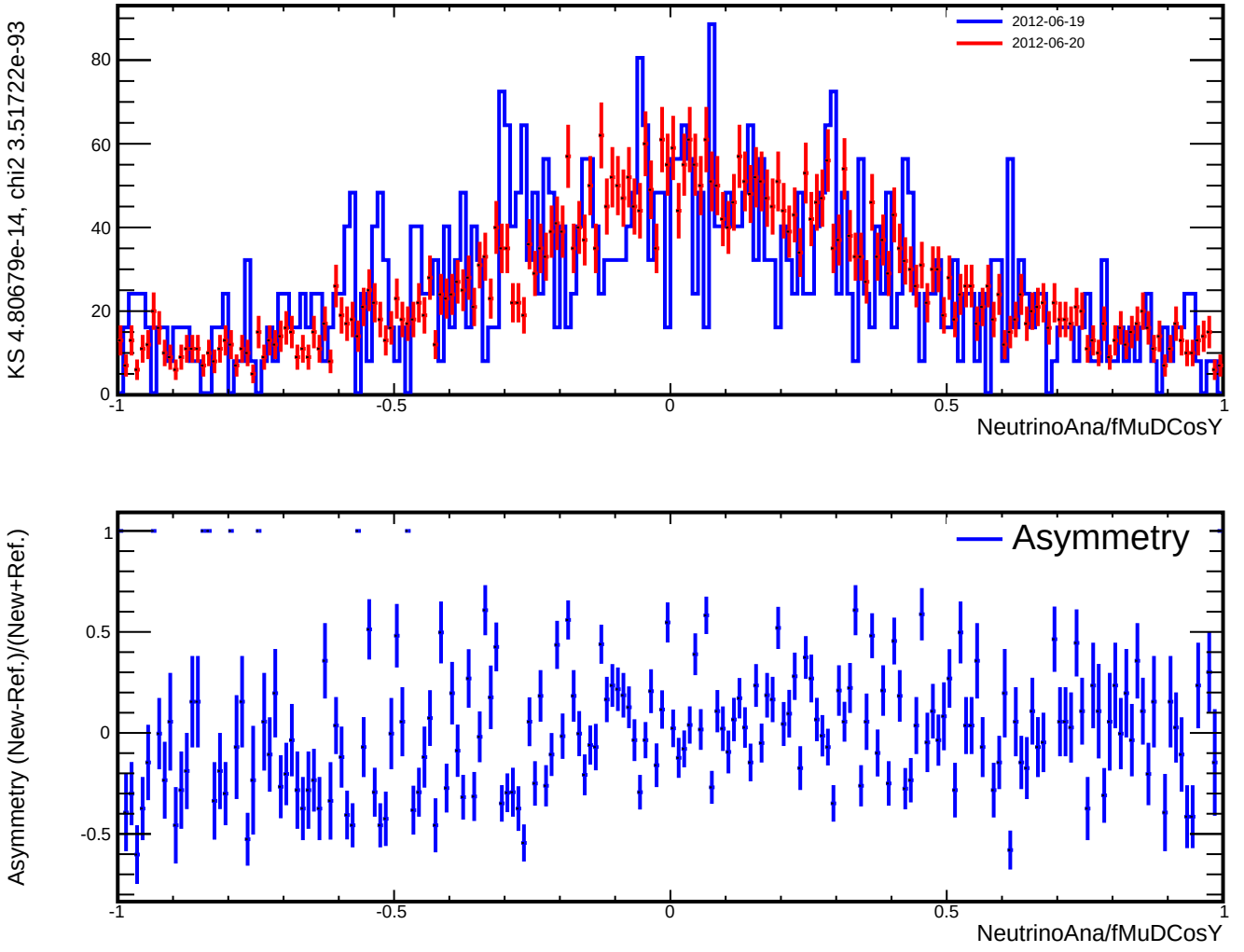

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosZ

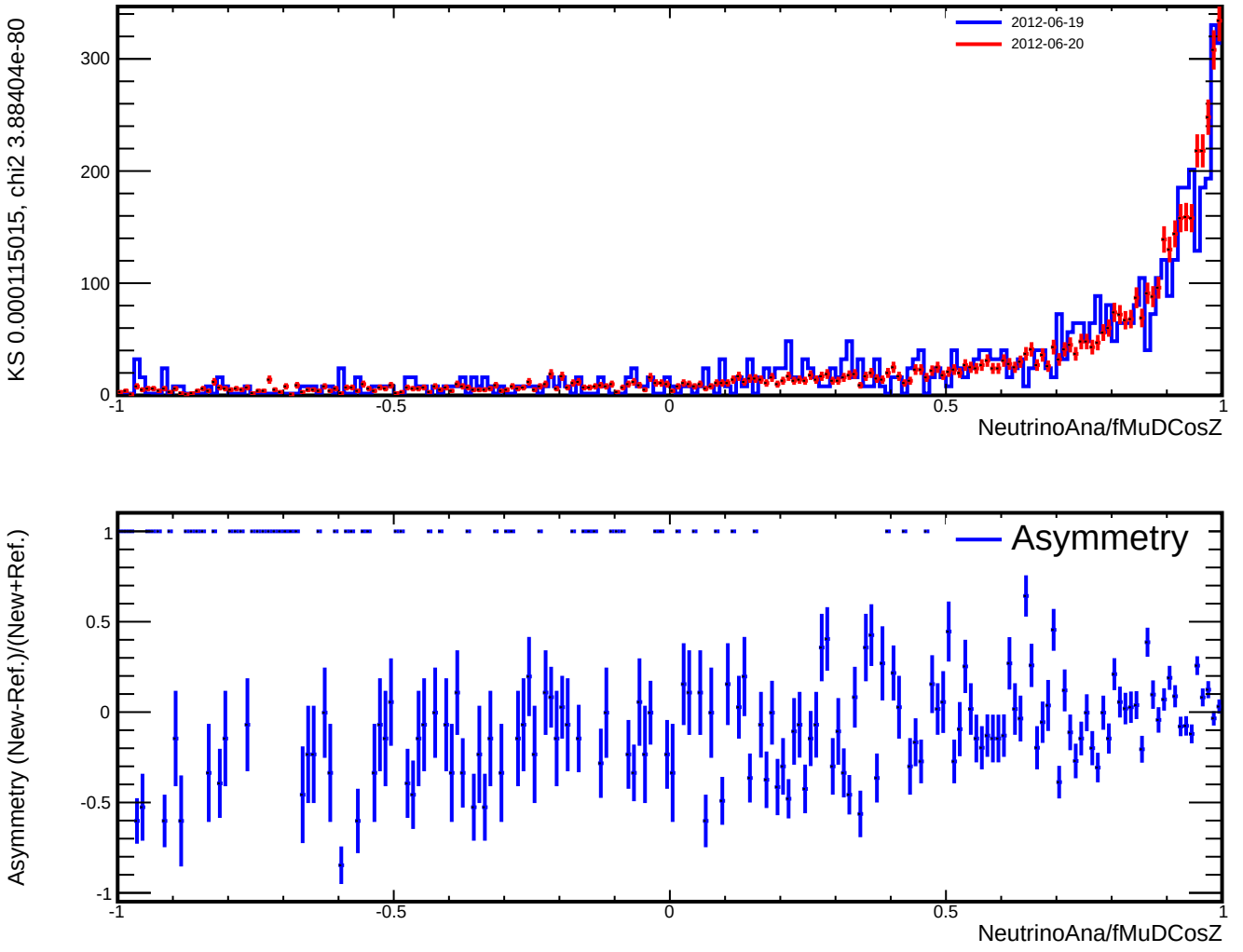

KS 7.11374e-06, chi2 7.37237e-36
2012-06-19
2012-06-20
0
100
200
300
400
500
0
10
20
30
40
50
NeutrinoAna/fMuMomentum

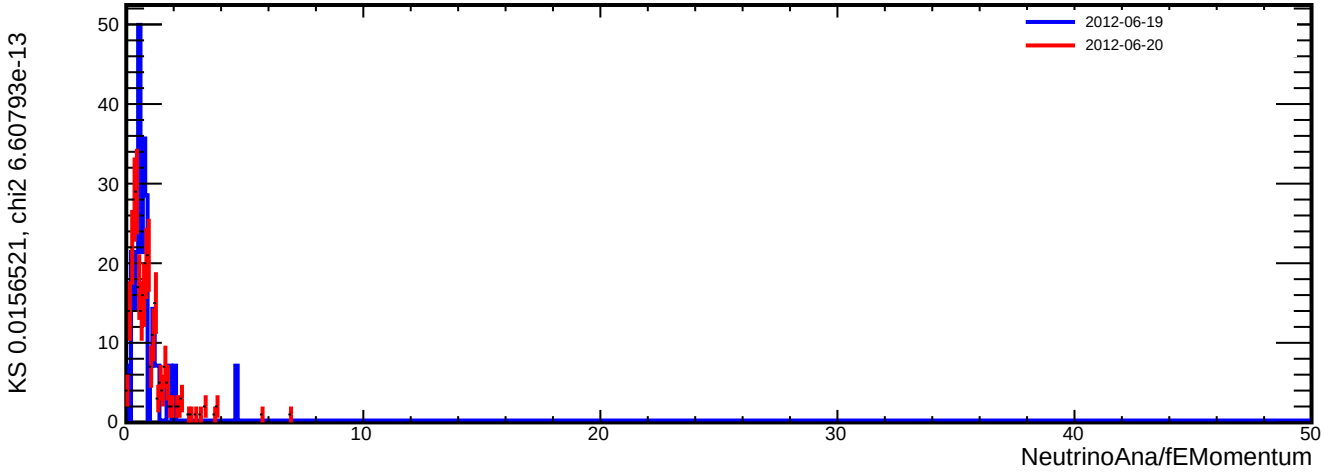

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
10
20
30
40
50
NeutrinoAna/fMuMomentum

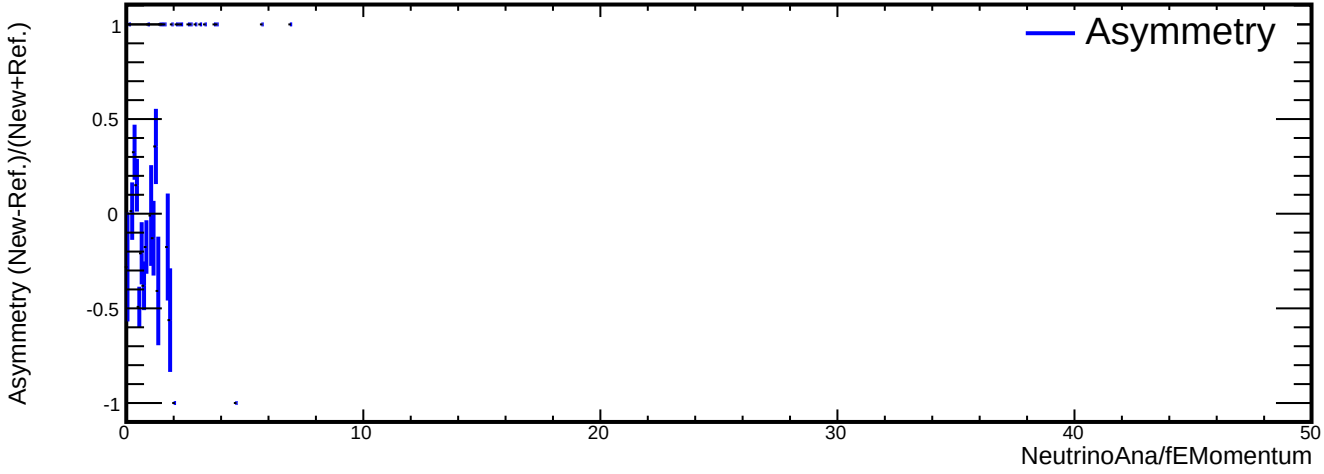

KS 6.38558e-07, chi2 1.62124e-123
2012-06-19
2012-06-20
100
80
60
40
20
0
-1
-0.5
0
0.5
1
NeutrinoAna/fMuDCosX

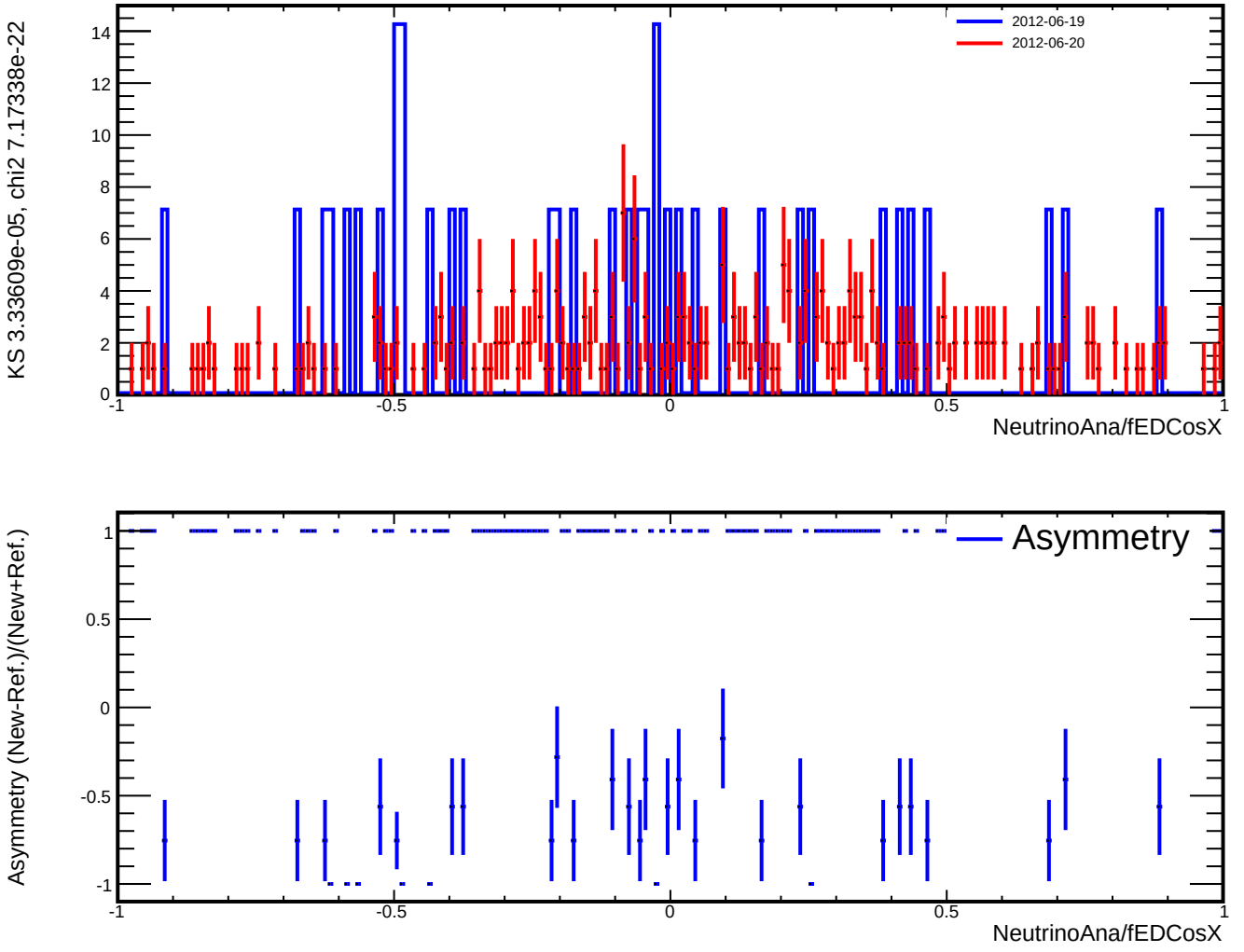

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-0.5
0
0.5
1
NeutrinoAna/fMuDCosX

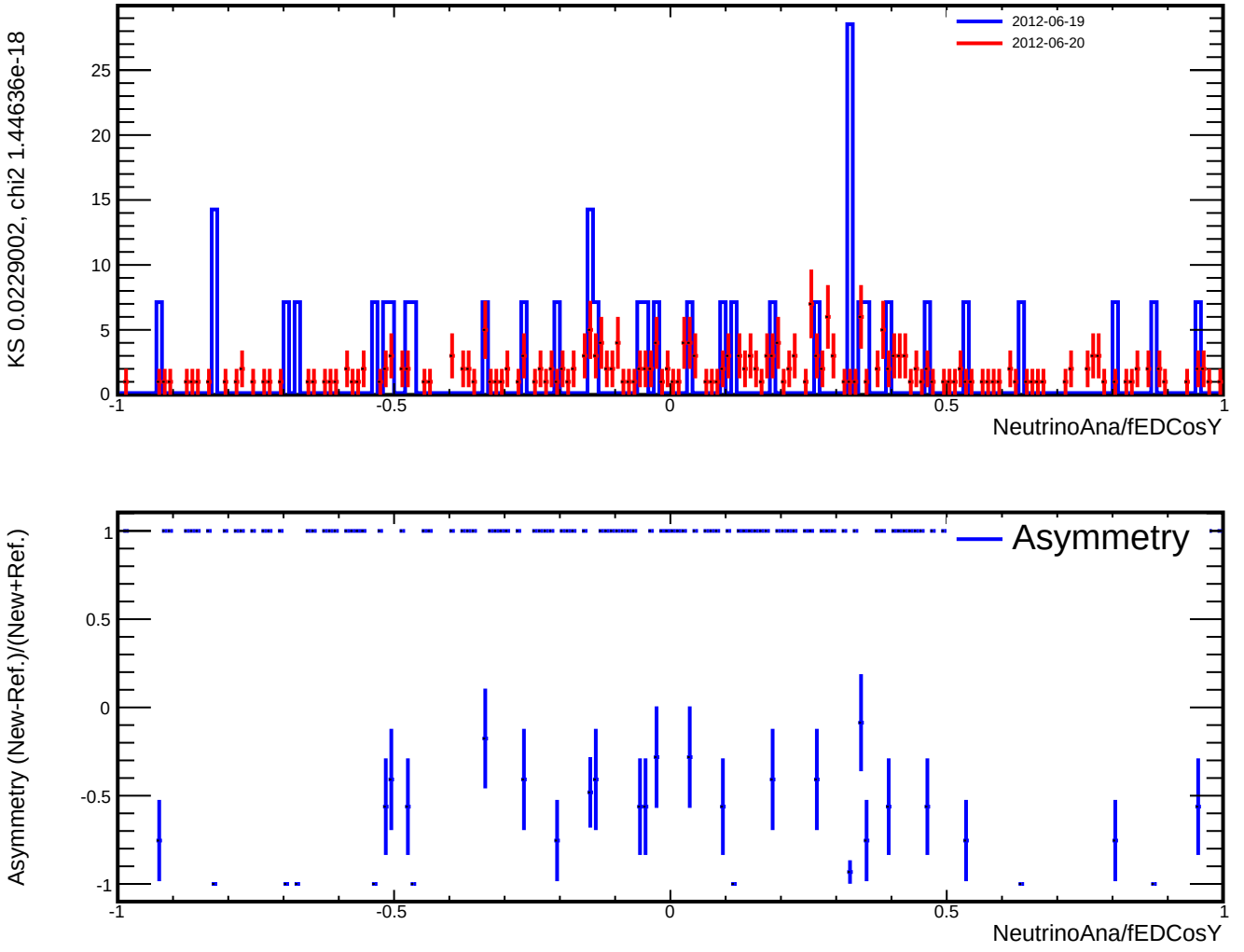

KS 4.80679e-14, chi2 3.51722e-93
2012-06-19
2012-06-20
NeutrinoAna/fMuDCosY
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fMuDCosY

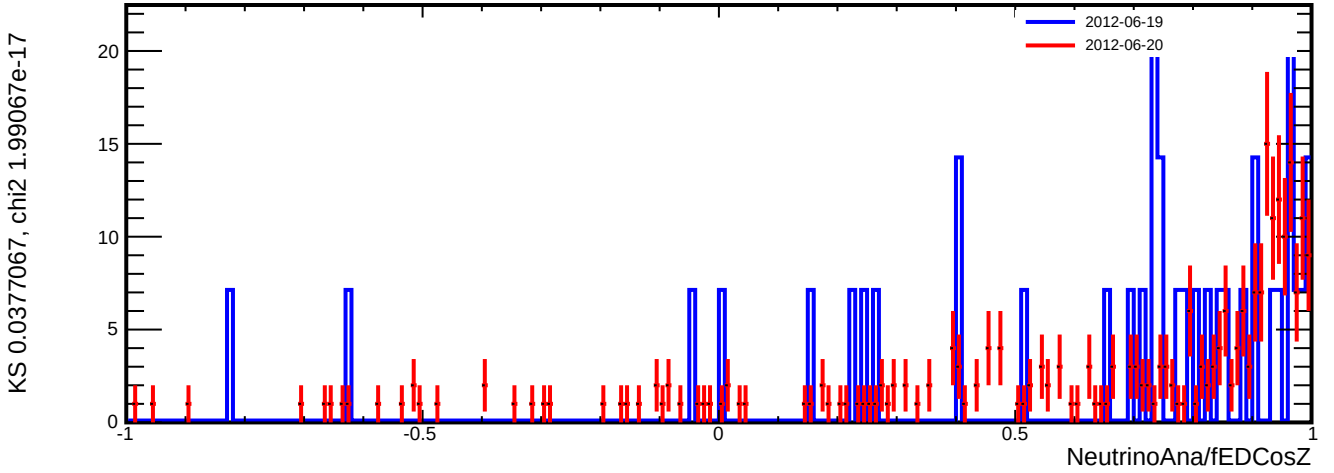

KS 0.000115015, chi2 3.88404e-80
2012-06-19
2012-06-20
300
200
100
0
-1
-0.5
0
0.5
1
NeutrinoAna/fMuDCosZ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fMuDCosZ

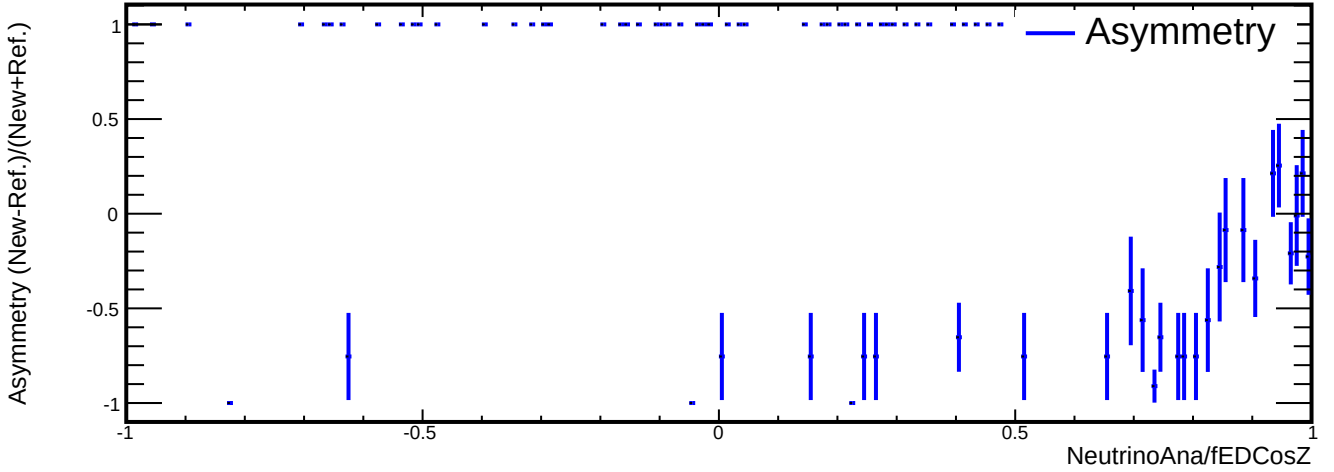

KS 0.0156521, chi2 6.60793e-13
2012-06-19
2012-06-20
NeutrinoAna/fEMomentum

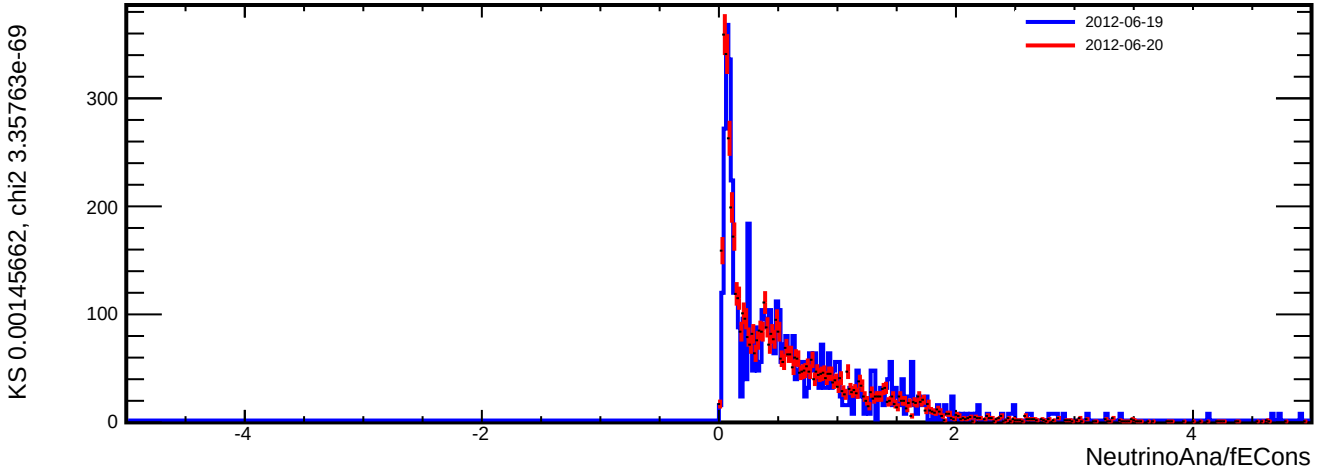

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEMomentum

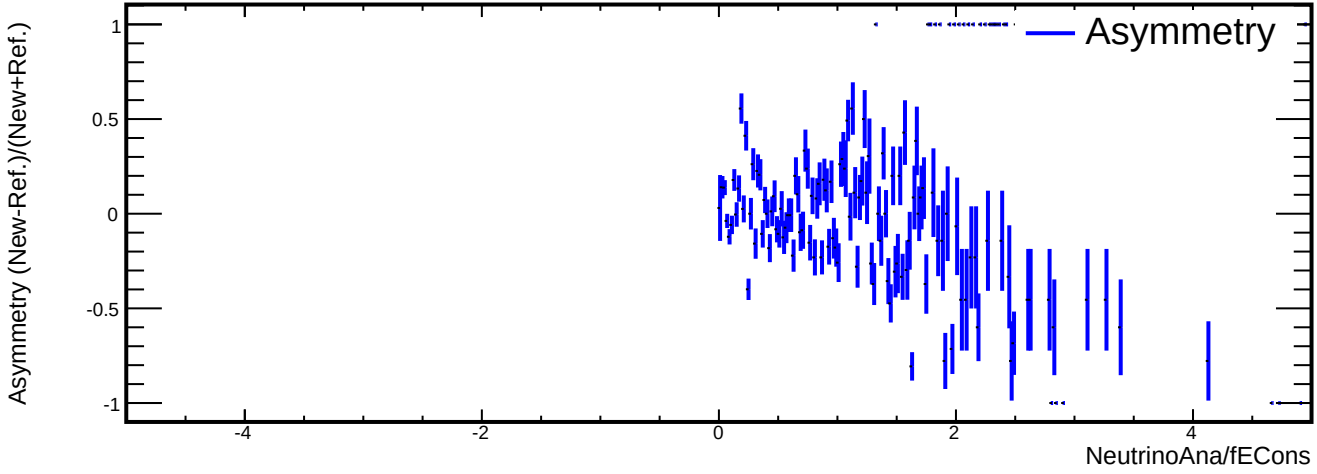

KS 3.33609e-05, chi2 7.17338e-22
2012-06-19
2012-06-20
NeutrinoAna/fEDCosX
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEDCosX

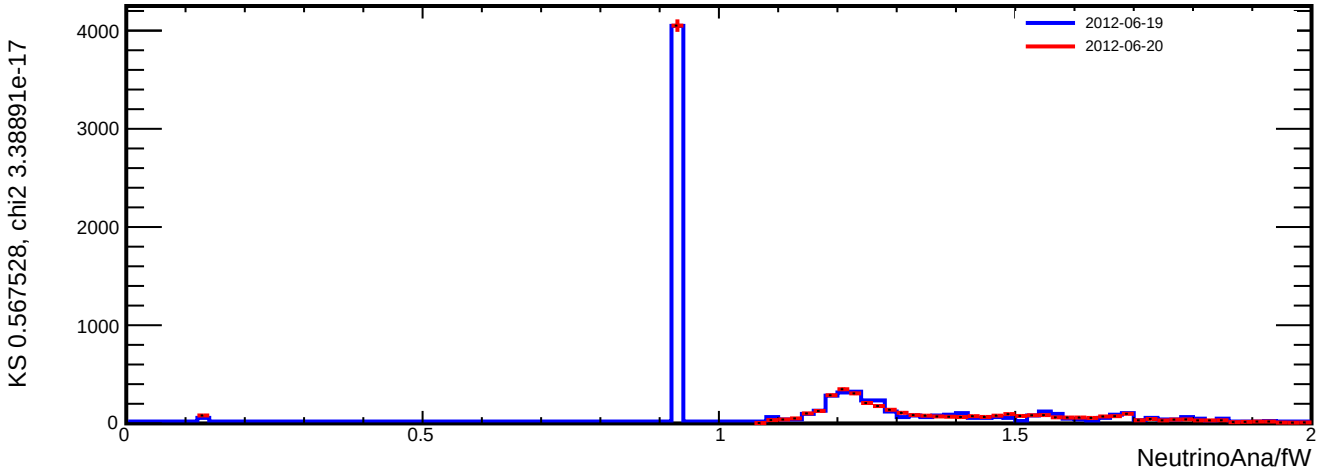

KS 0.0229002, chi2 1.44636e-18
2012-06-19
2012-06-20
NeutrinoAna/fEDCosY
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEDCosY

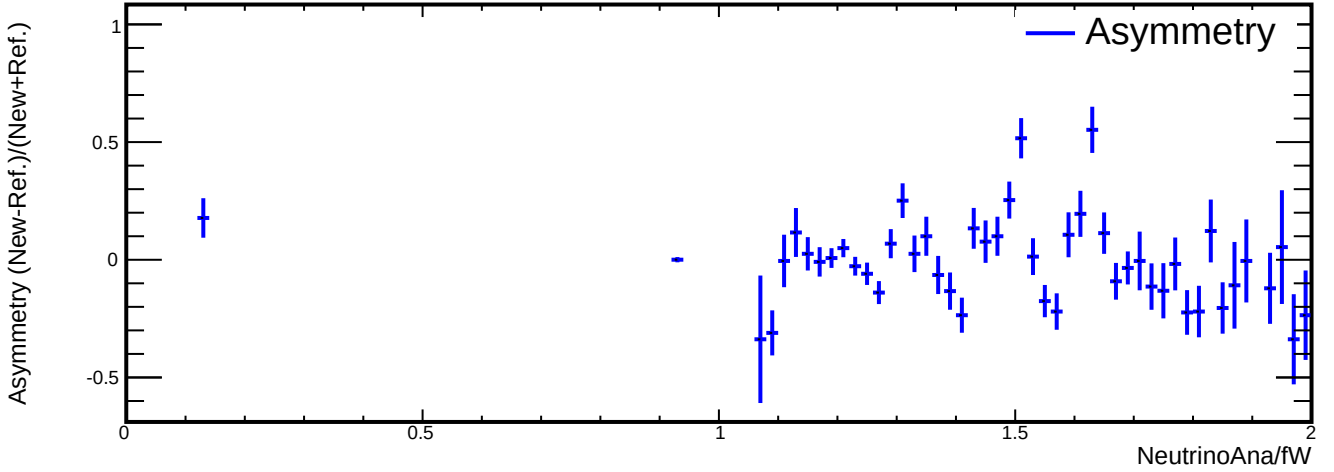

KS 0.0377067, chi2 1.99067e-17
2012-06-19
2012-06-20
NeutrinoAna/fEDCosZ

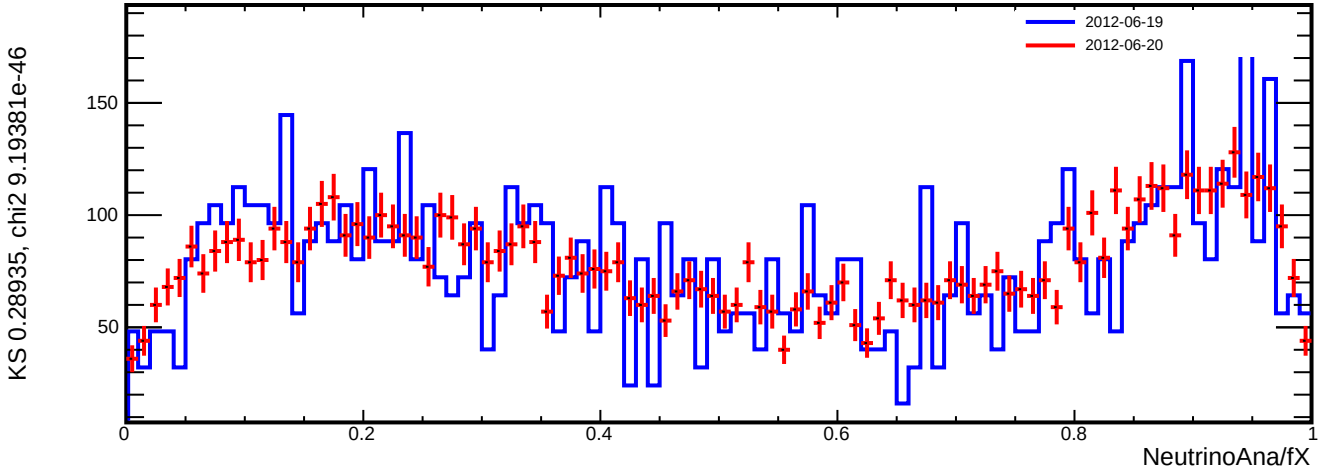

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEDCosZ

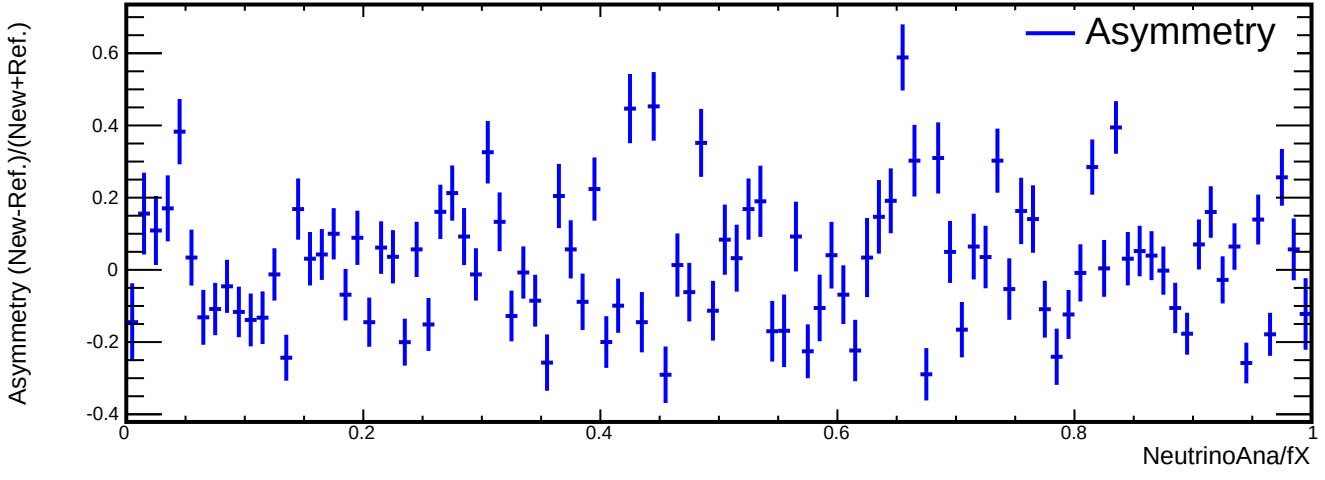

KS 0.00145662, chi2 3.35763e-69
2012-06-19
2012-06-20
300
200
100
0
-4
-2
0
2
4
NeutrinoAna/fECons

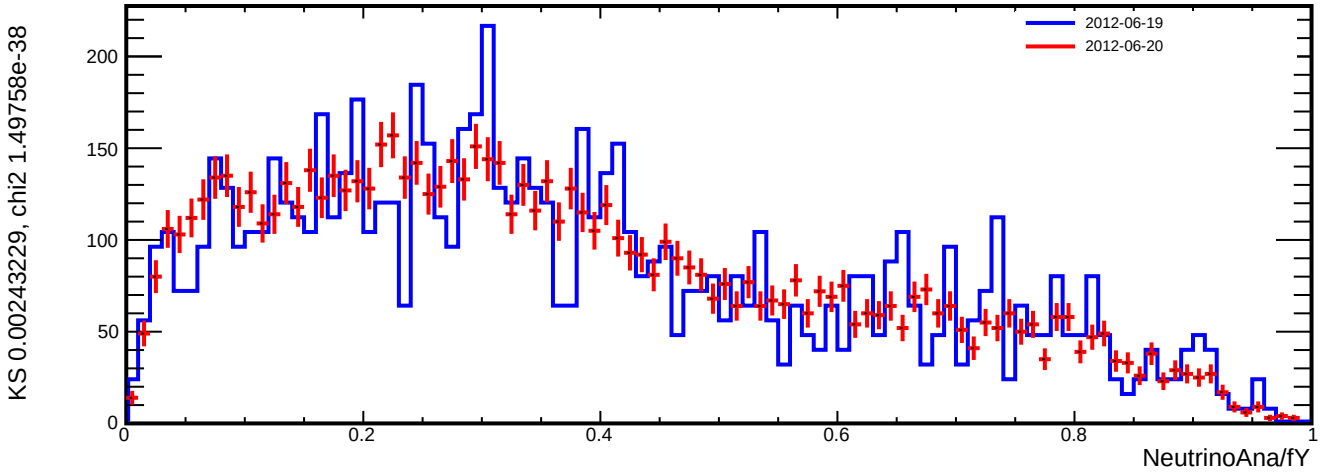

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-4
-2
0
2
4
NeutrinoAna/fECons

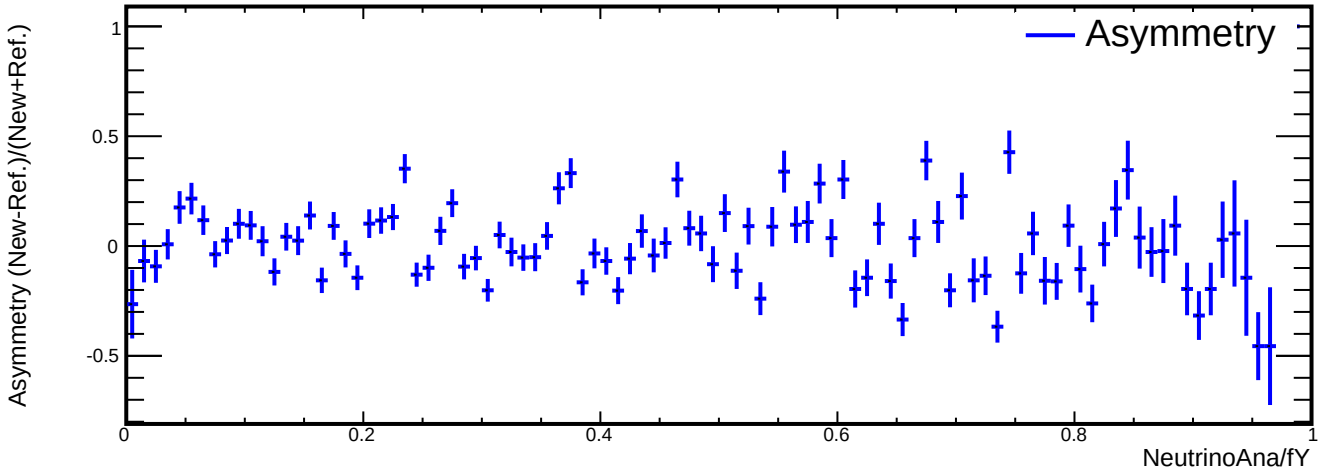

KS 0.567528, chi2 3.38891e-17
4000
3000
2000
1000
0
0
0.5
1
1.5
2
NeutrinoAna/fW
2012-06-19
2012-06-20

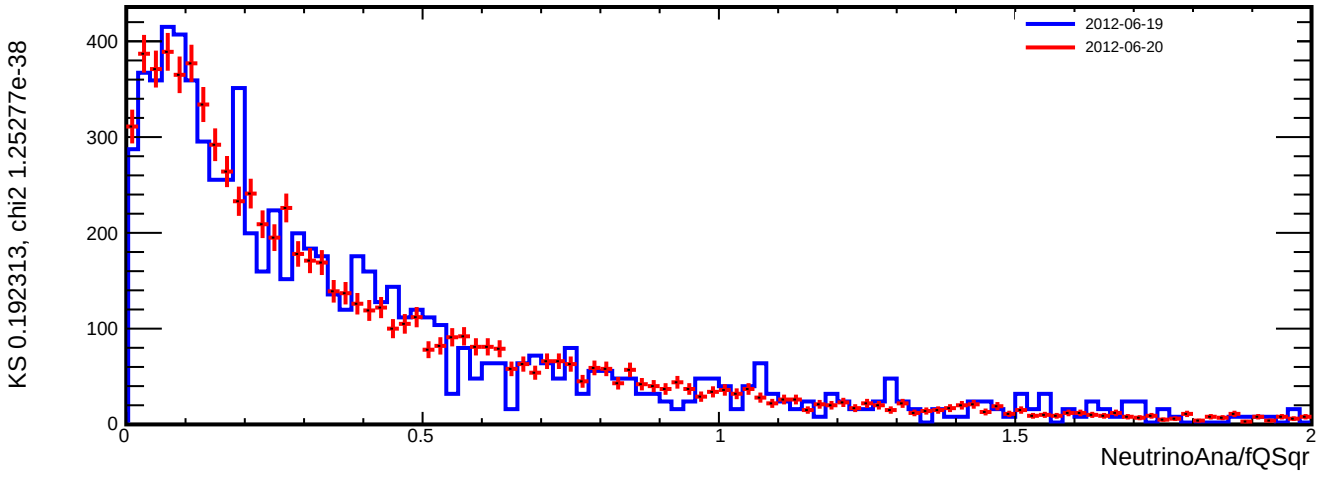

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
0
0.5
1
1.5
2
NeutrinoAna/fW
Asymmetry

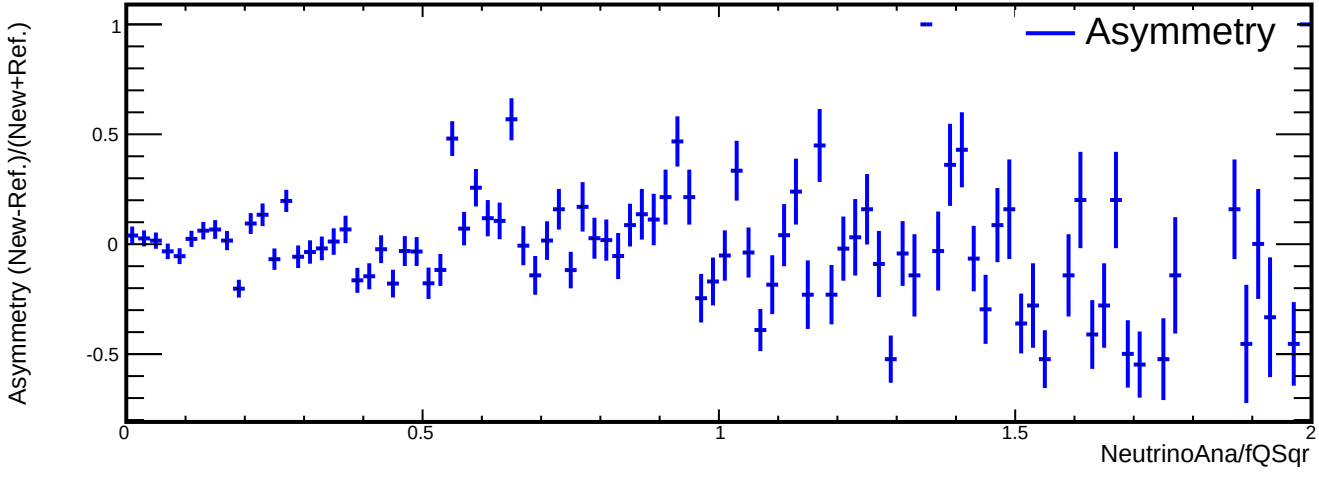

KS 0.28935, chi2 9.19381e-46
2012-06-19
2012-06-20
150
100
50
0
0.2
0.4
0.6
0.8
1
NeutrinoAna/fX

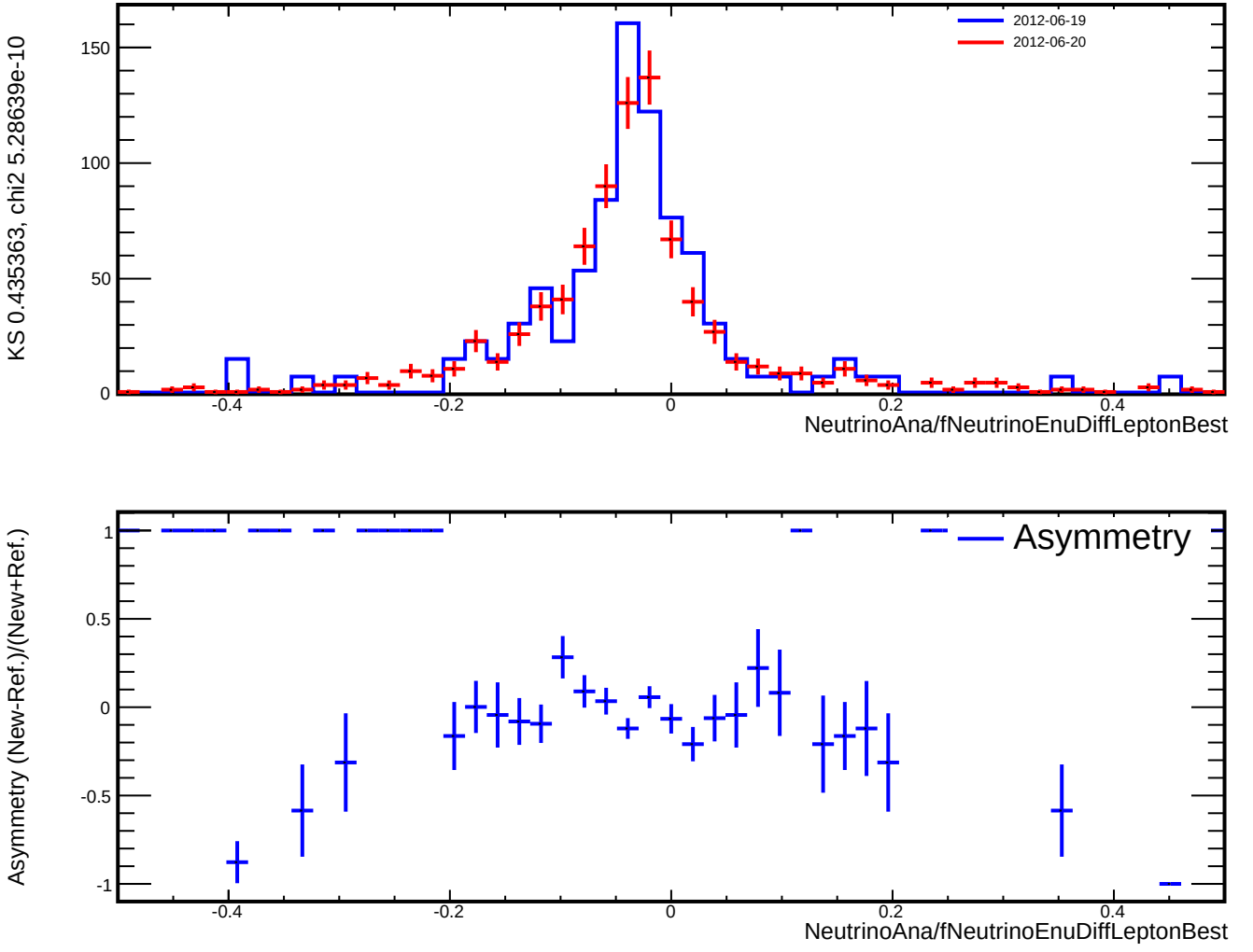

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.6
0.4
0.2
0
-0.2
-0.4
0
0.2
0.4
0.6
0.8
1
NeutrinoAna/fX

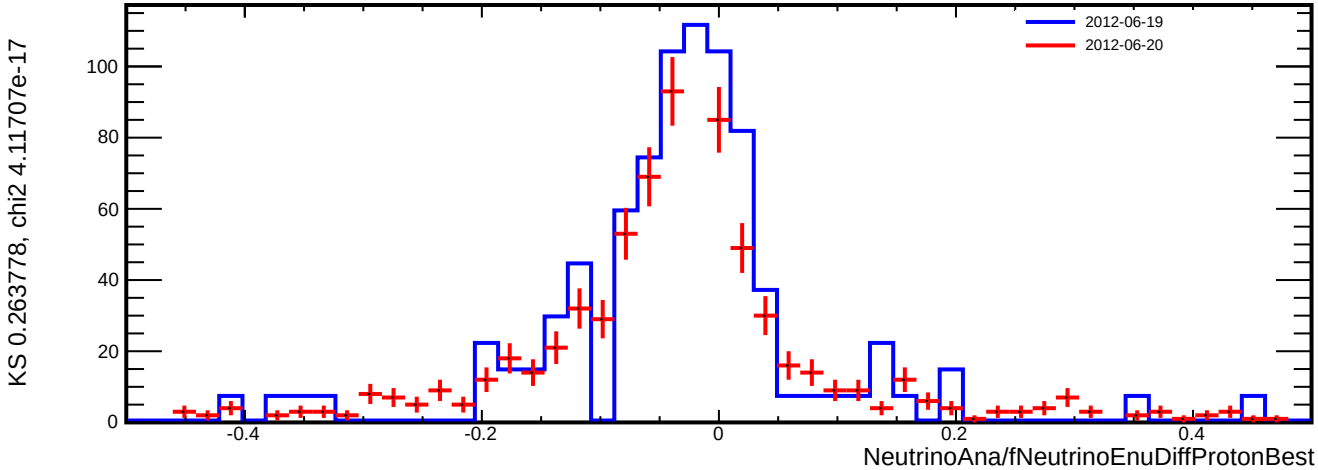

KS 0.00243229, chi2 1.49758e-38
2012-06-19
2012-06-20
NeutrinoAna/fY


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


KS 0.192313, chi2 1.25277e-38
2012-06-19
2012-06-20
NeutrinoAna/fQSqr


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


KS 0.435363, chi2 5.28639e-10
2012-06-19
2012-06-20
150
100
50
0
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffLeptonBest
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffLeptonBest


KS 0.263778, chi2 4.11707e-17
2012-06-19
2012-06-20
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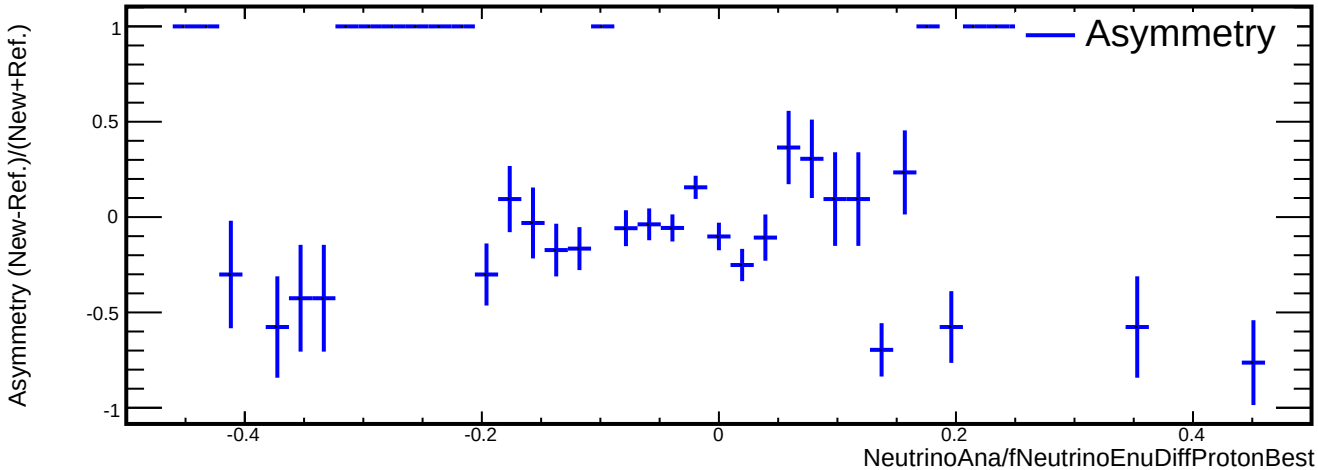
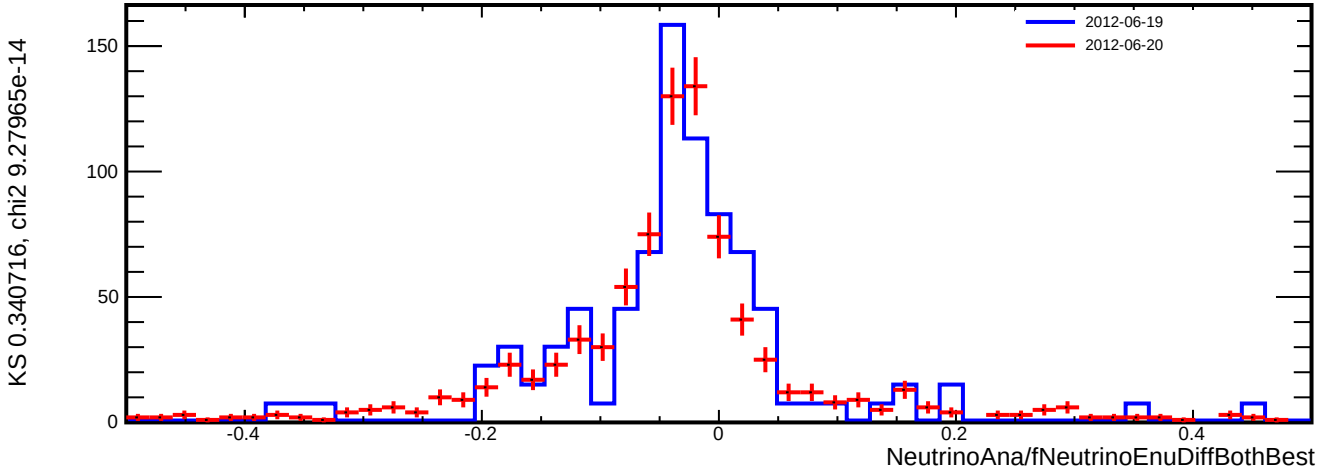
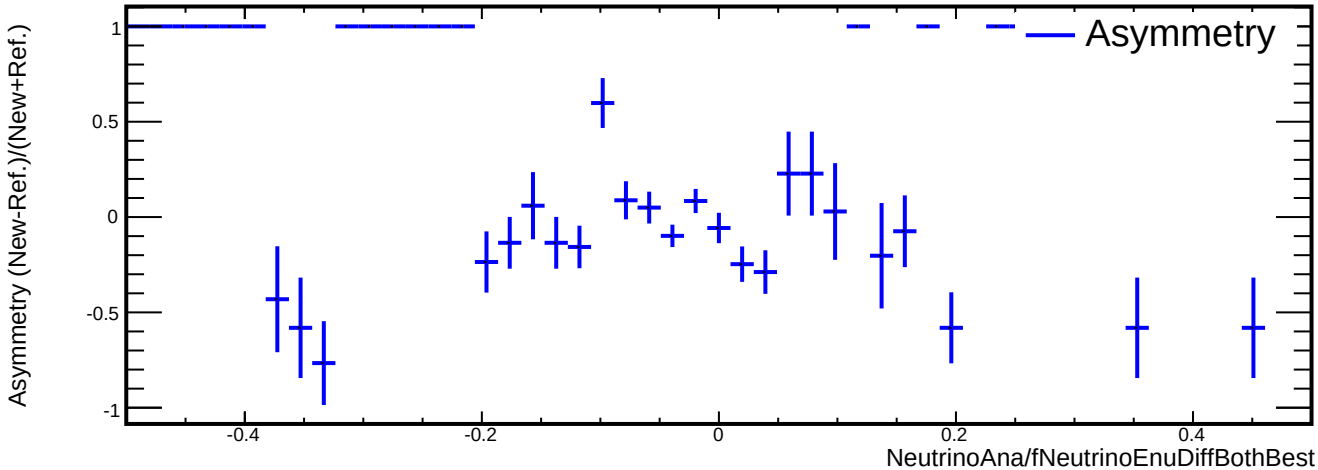
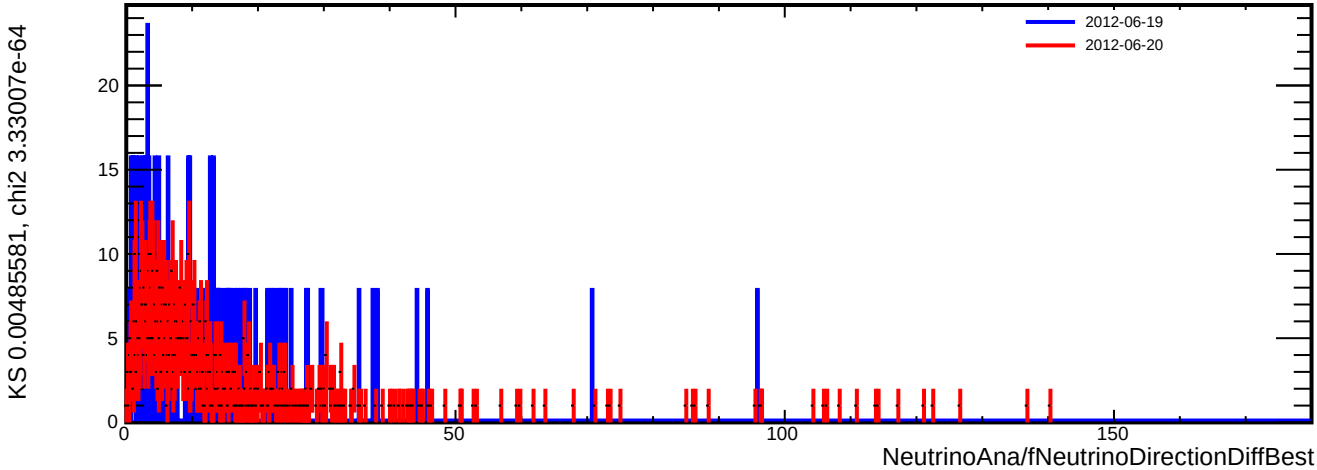
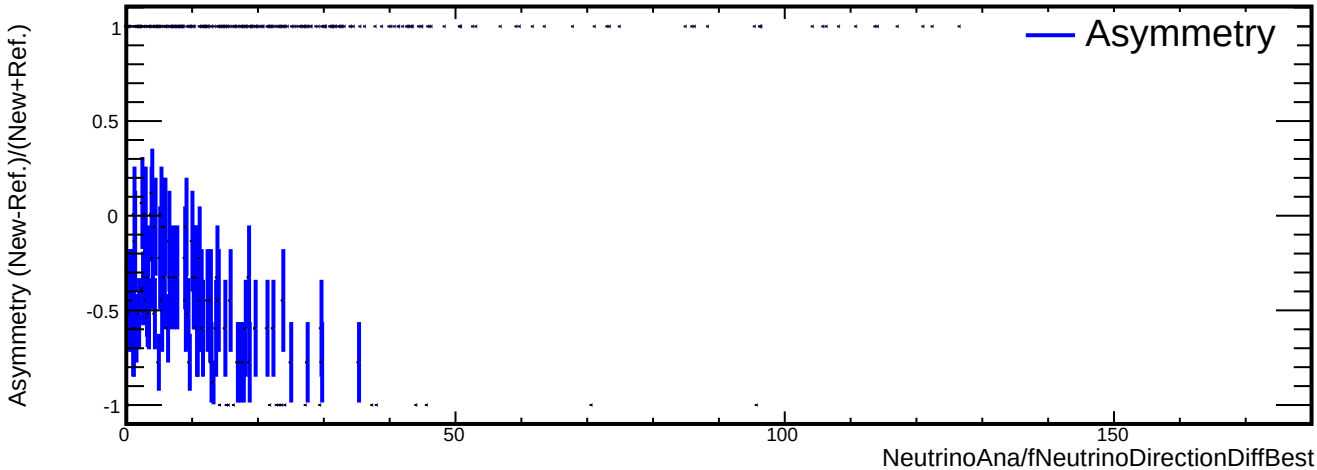
80
60
40
20
0
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffProtonBest

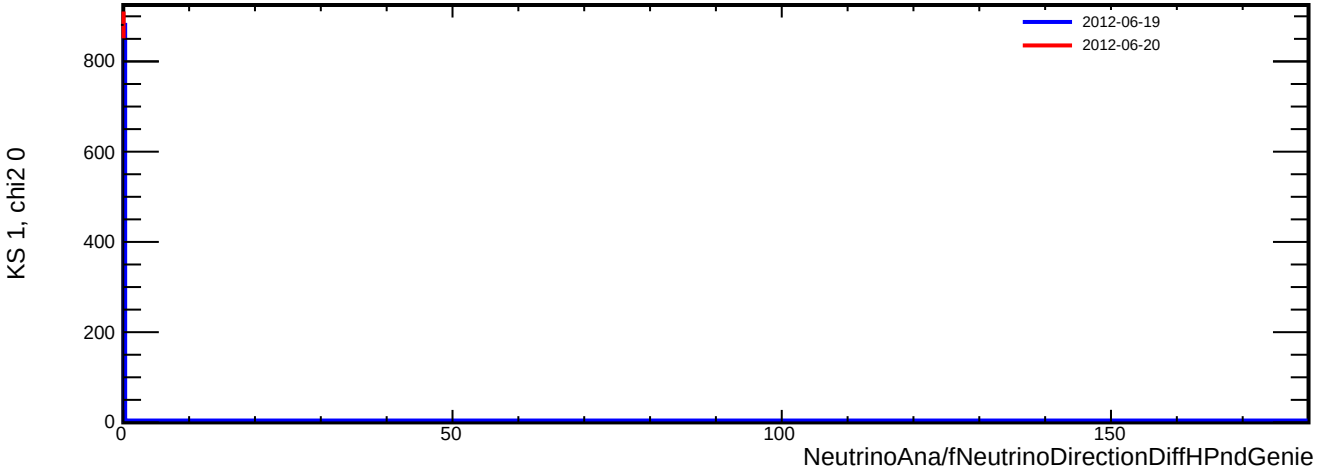

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffProtonBest

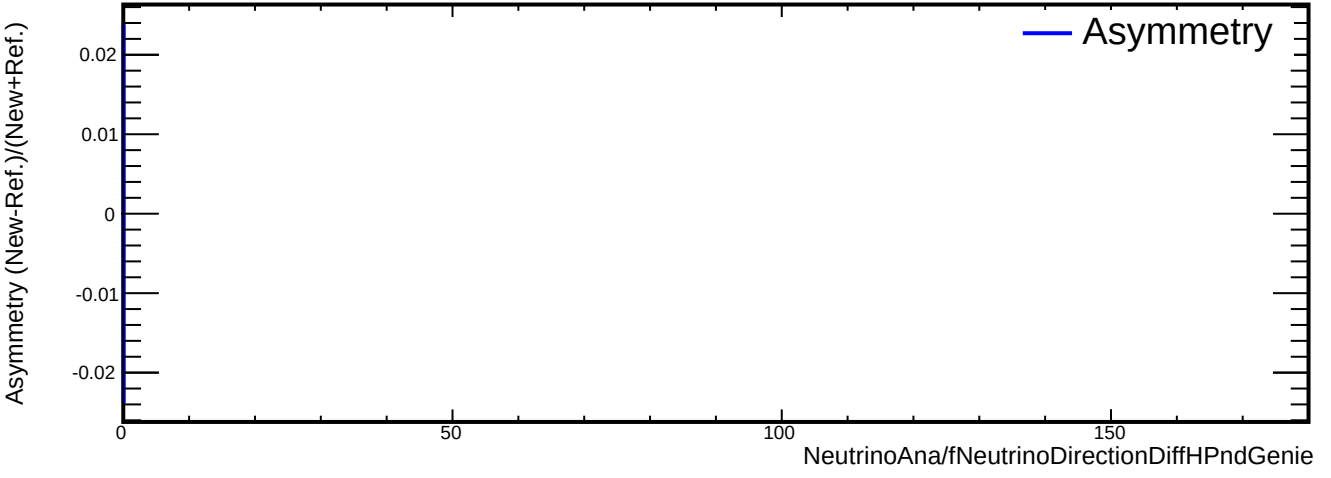

KS 0.340716, chi2 9.27965e-14
2012-06-19
2012-06-20
150
100
50
0
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffBothBest

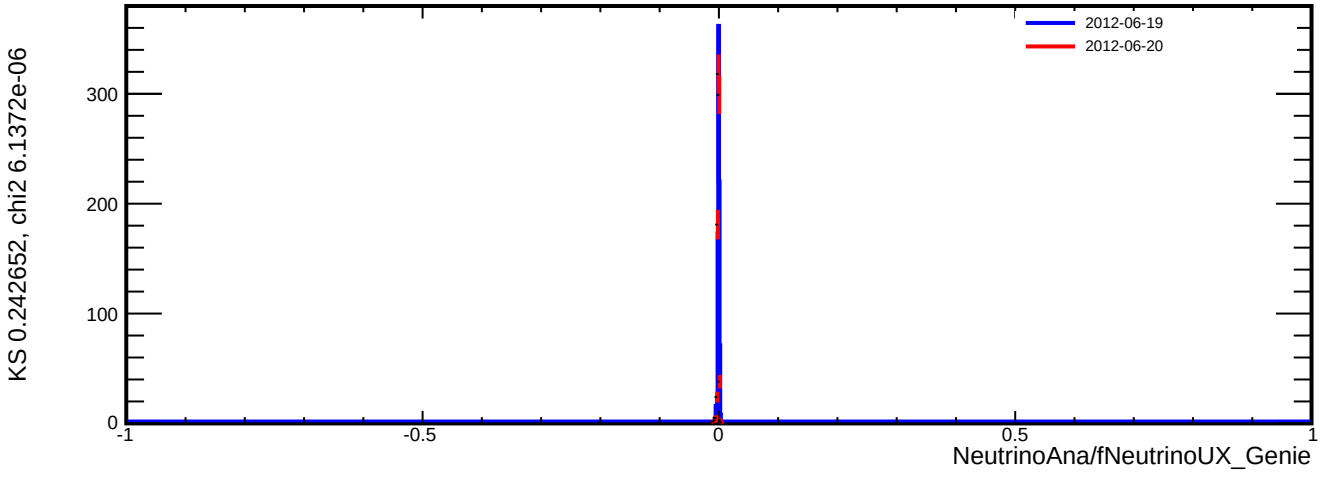

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffBothBest

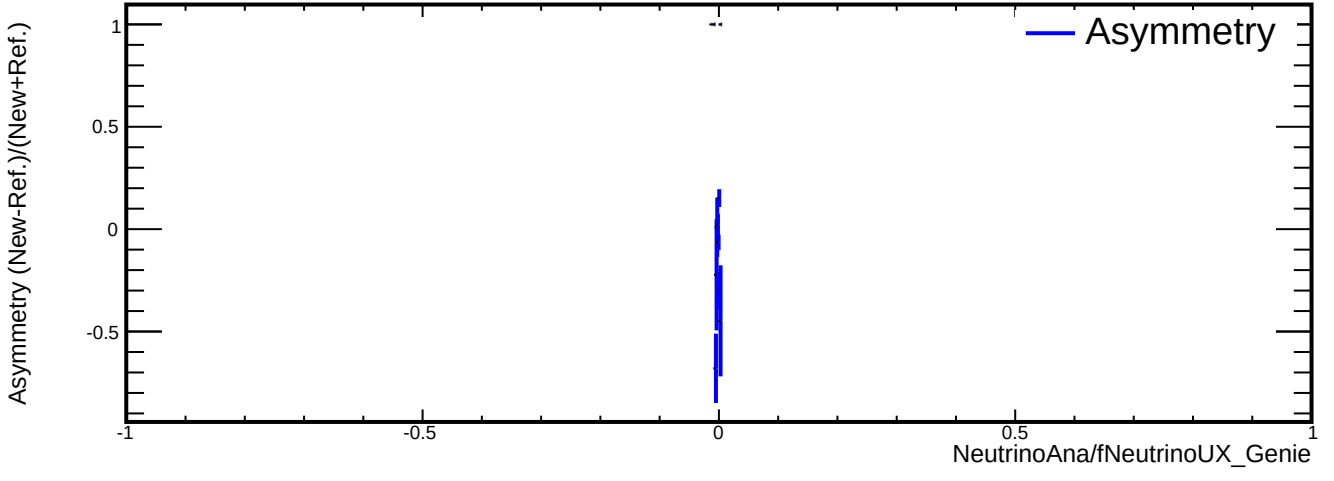

KS 0.00485581, chi2 3.33007e-64
2012-06-19
2012-06-20
0
5
10
15
20
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffBest

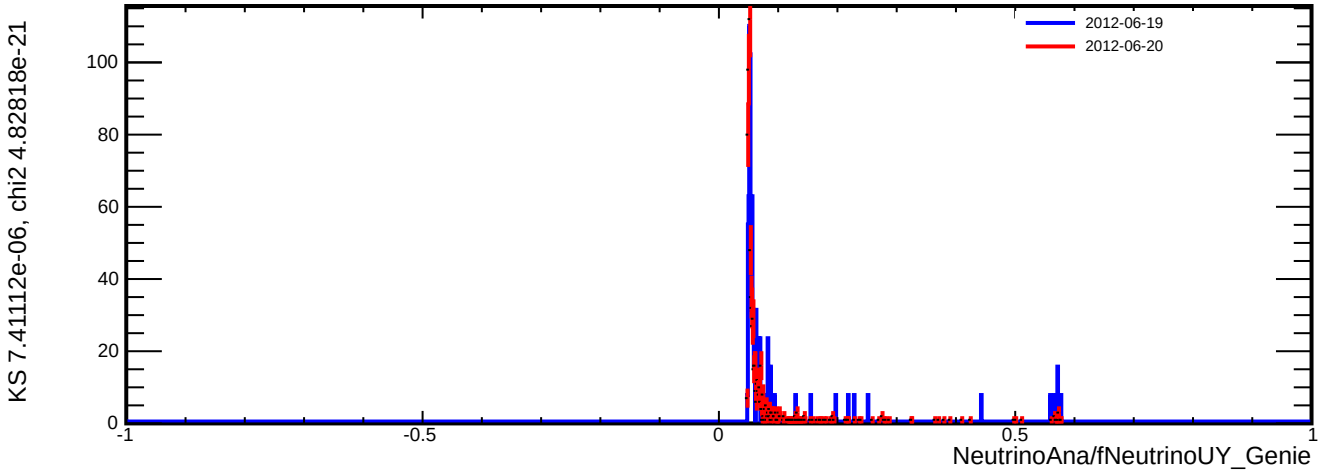

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffBest

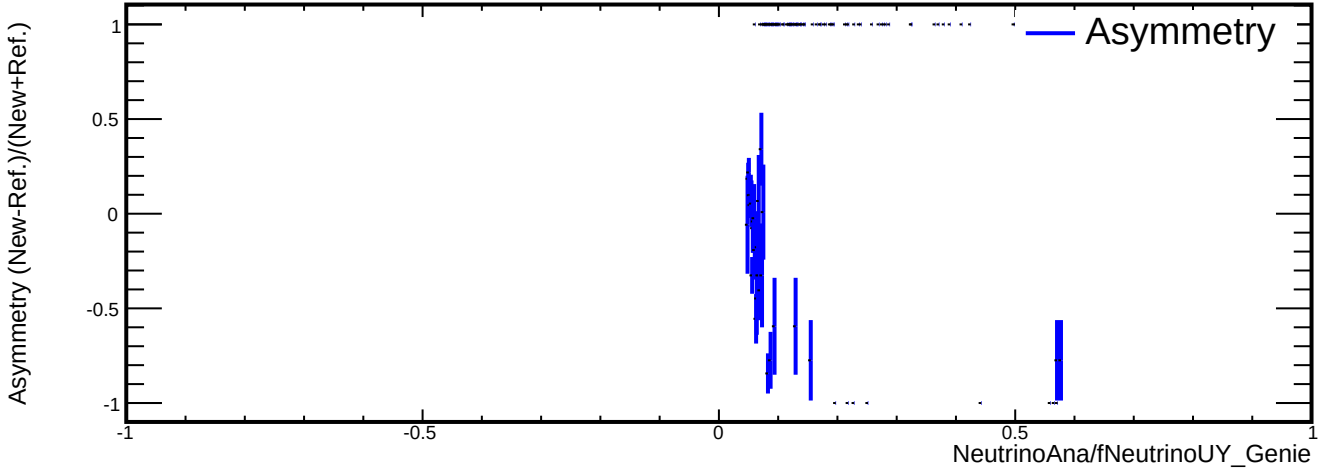

2012-06-19
2012-06-20
KS 1, chi2 0
800
600
400
200
0
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie

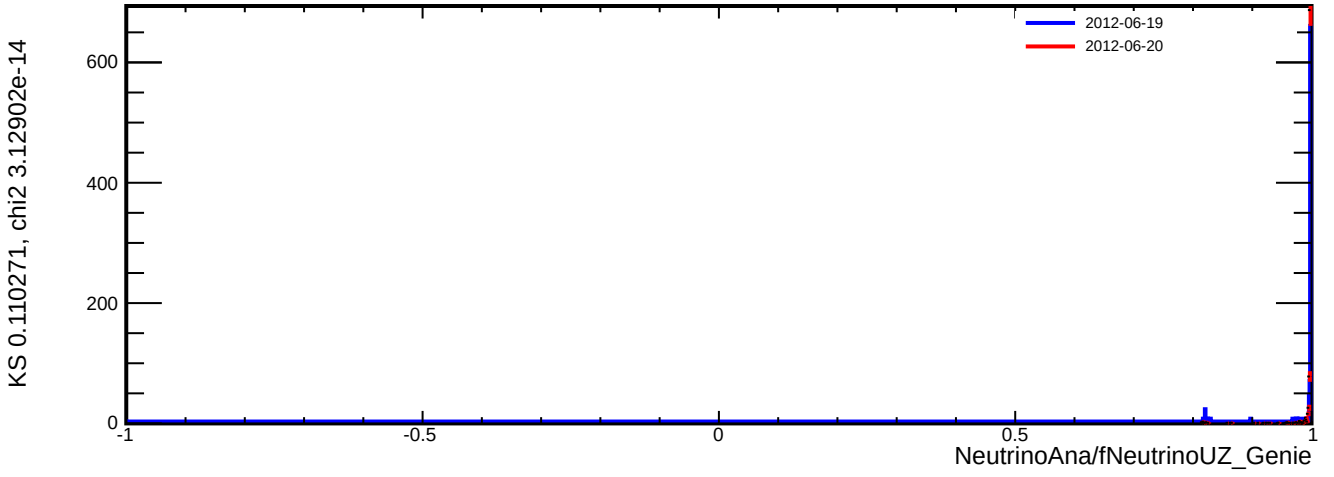

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0.02
0.01
0
-0.01
-0.02
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie

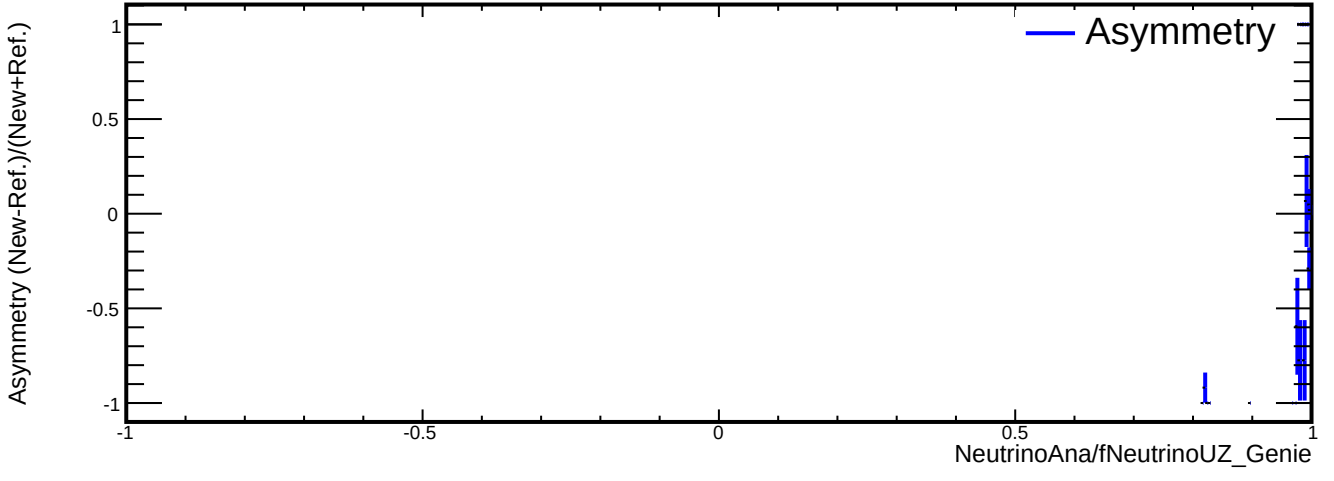

KS 0.242652, chi2 6.1372e-06
2012-06-19
2012-06-20
300
200
100
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_Genie

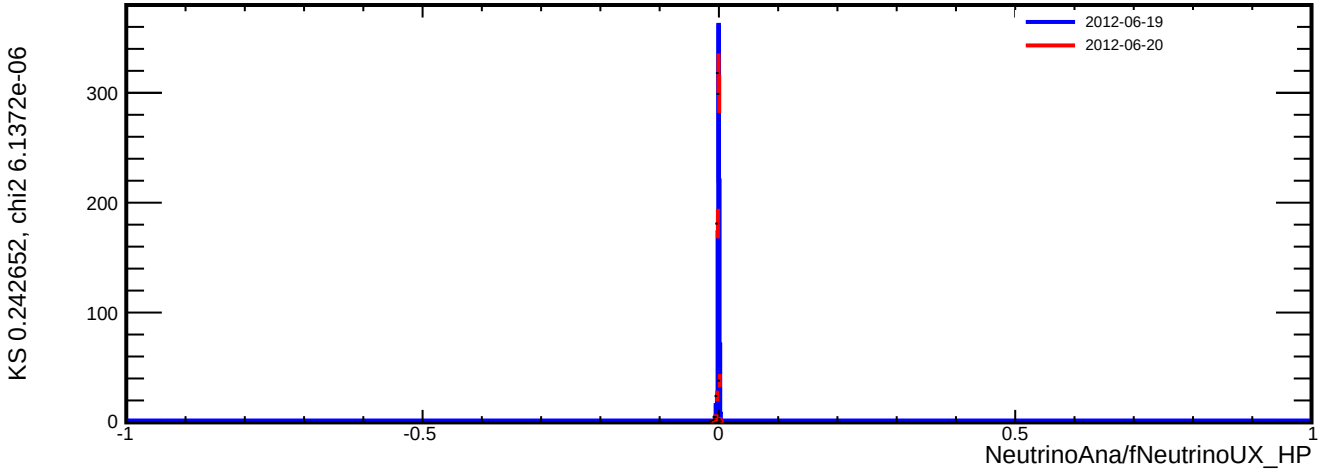

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_Genie

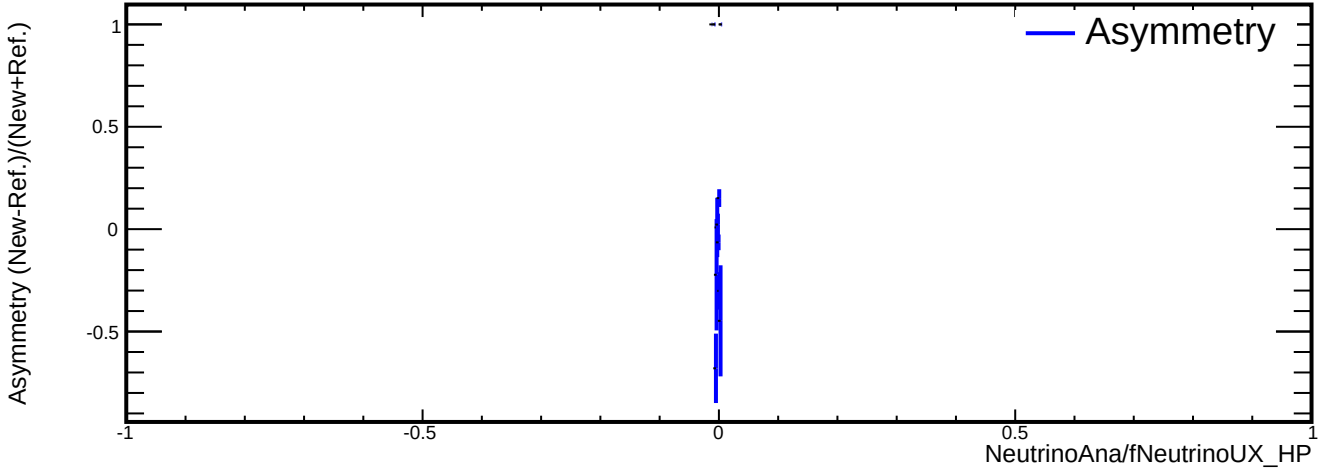

KS 7.41112e-06, chi2 4.82818e-21
2012-06-19
2012-06-20
100
80
60
40
20
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUY_Genie

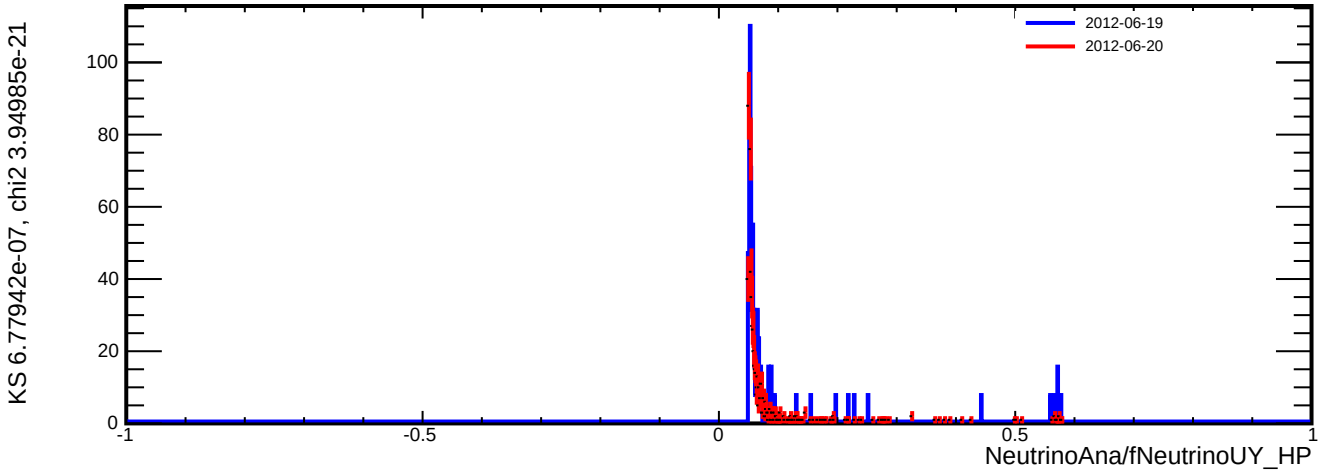

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUY_Genie

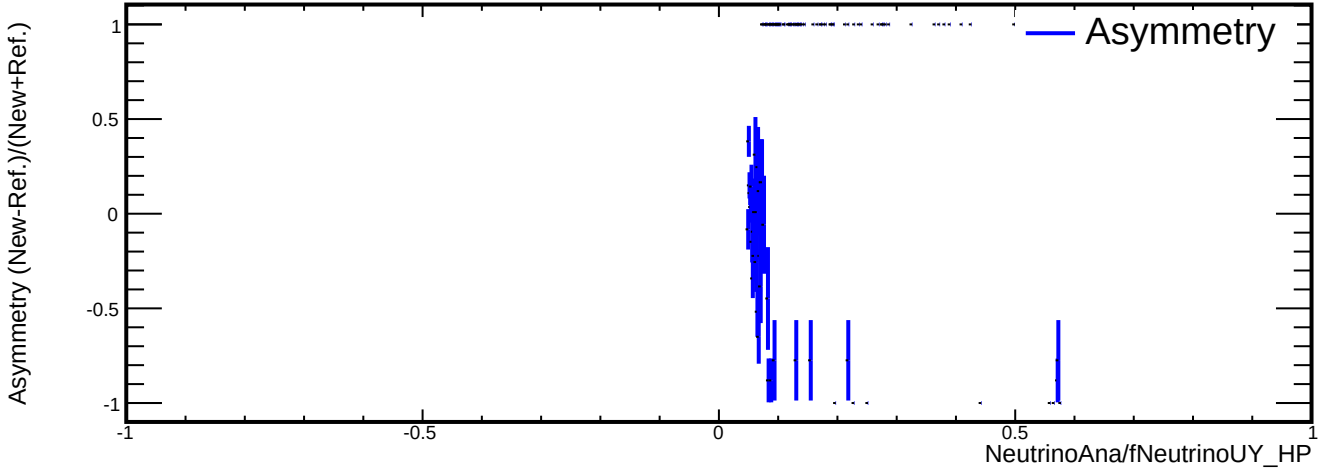

KS 0.110271, chi2 3.12902e-14
2012-06-19
2012-06-20
600
400
200
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_Genie

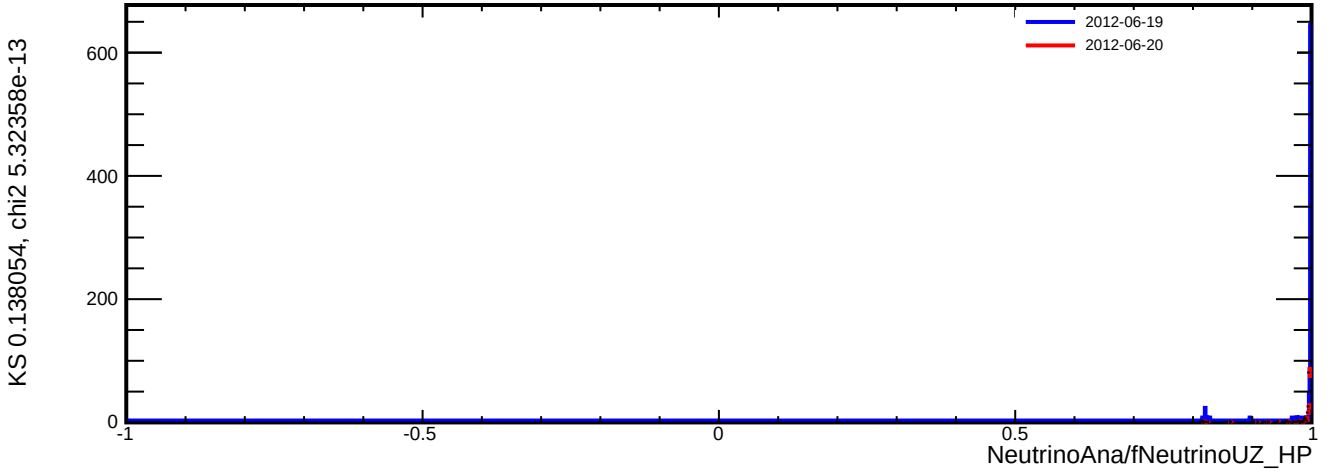

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_Genie

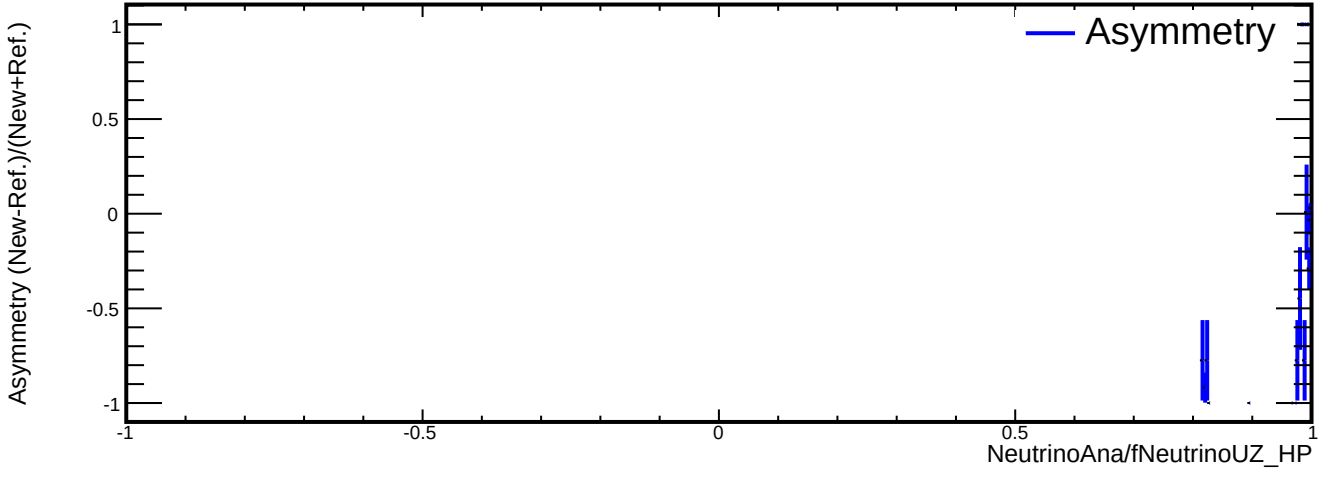

KS 0.242652, chi2 6.1372e-06
2012-06-19
2012-06-20
300
200
100
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_HP

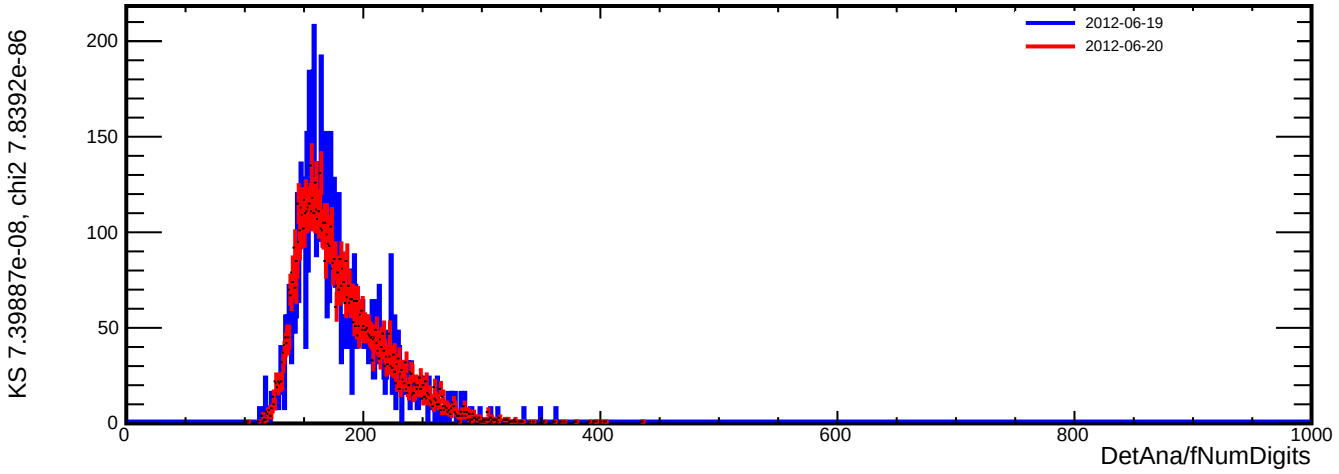

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_HP

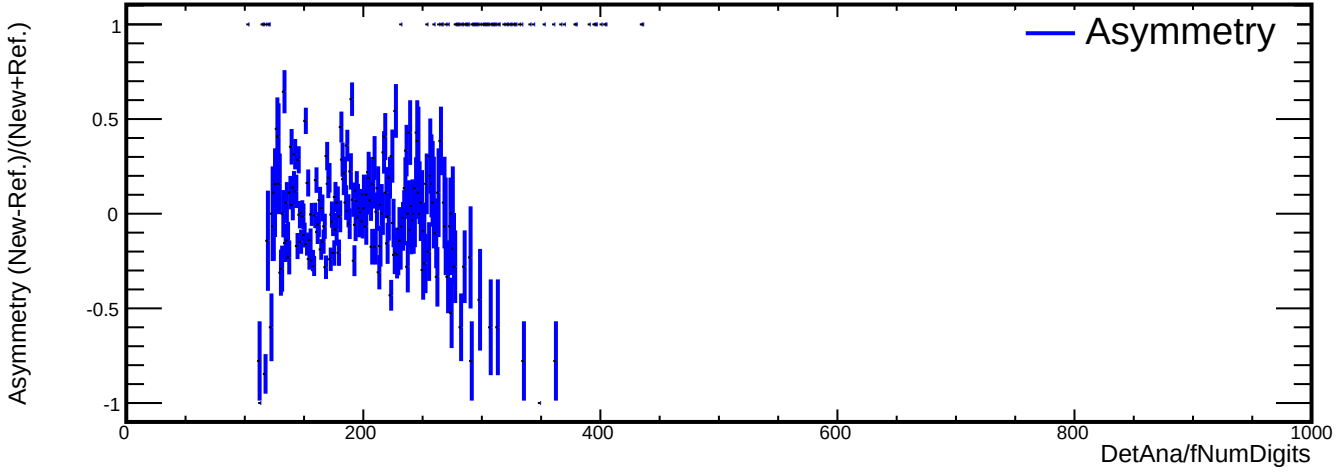

KS 6.77942e-07, chi2 3.94985e-21
2012-06-19
2012-06-20
100
80
60
40
20
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUY_HP

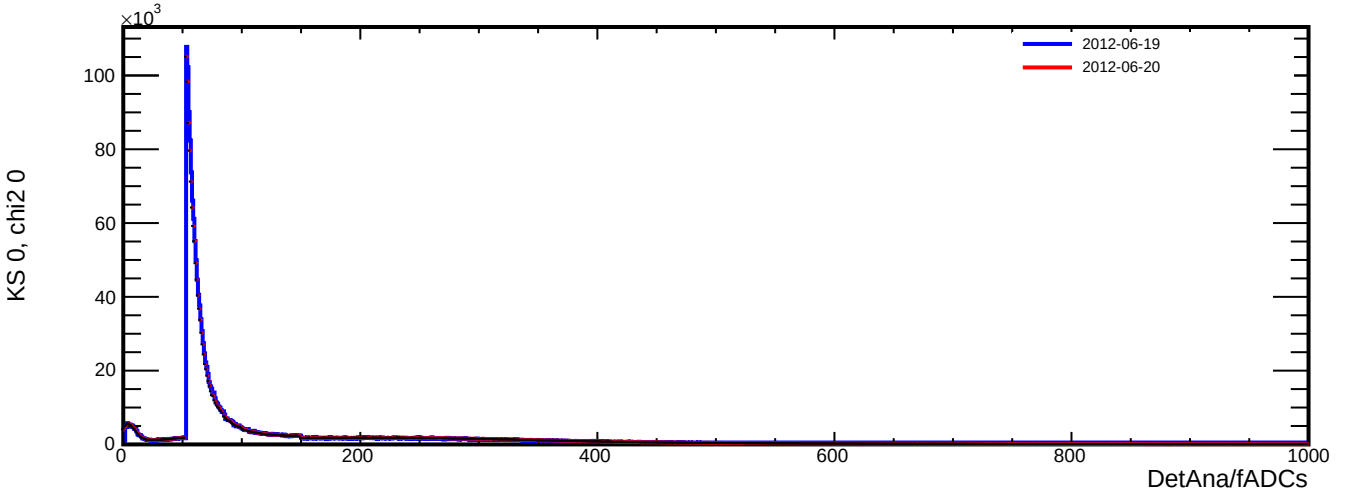

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUY_HP

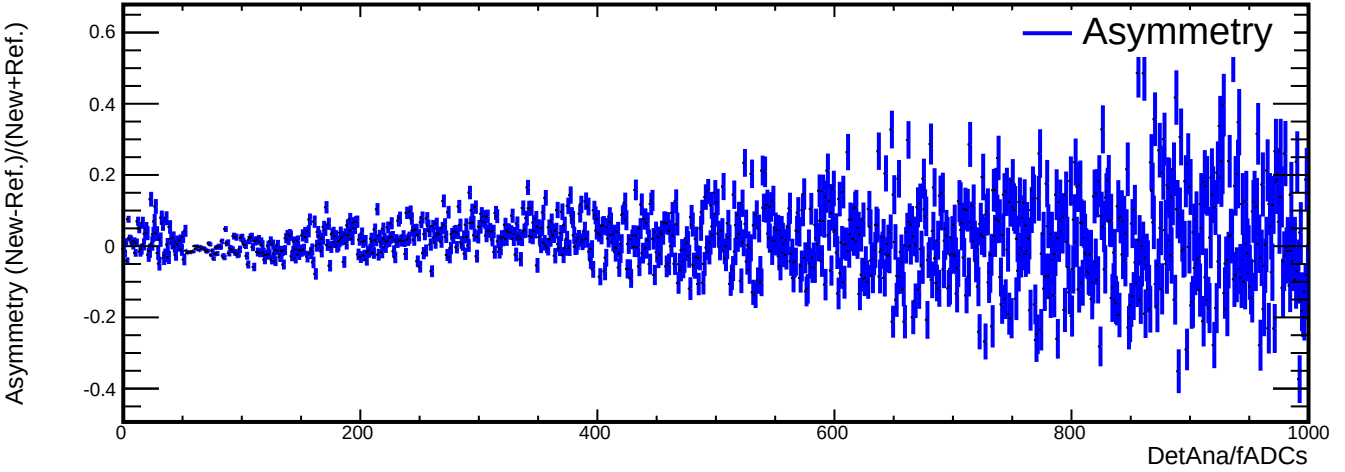

KS 0.138054, chi2 5.32358e-13
2012-06-19
2012-06-20
600
400
200
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_HP

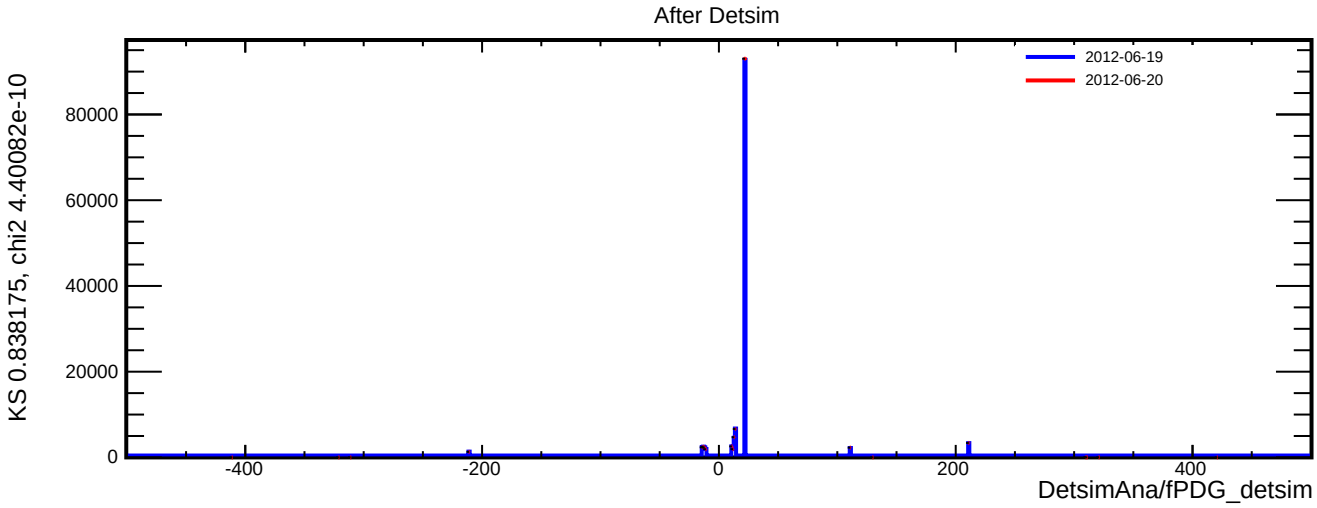

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_HP

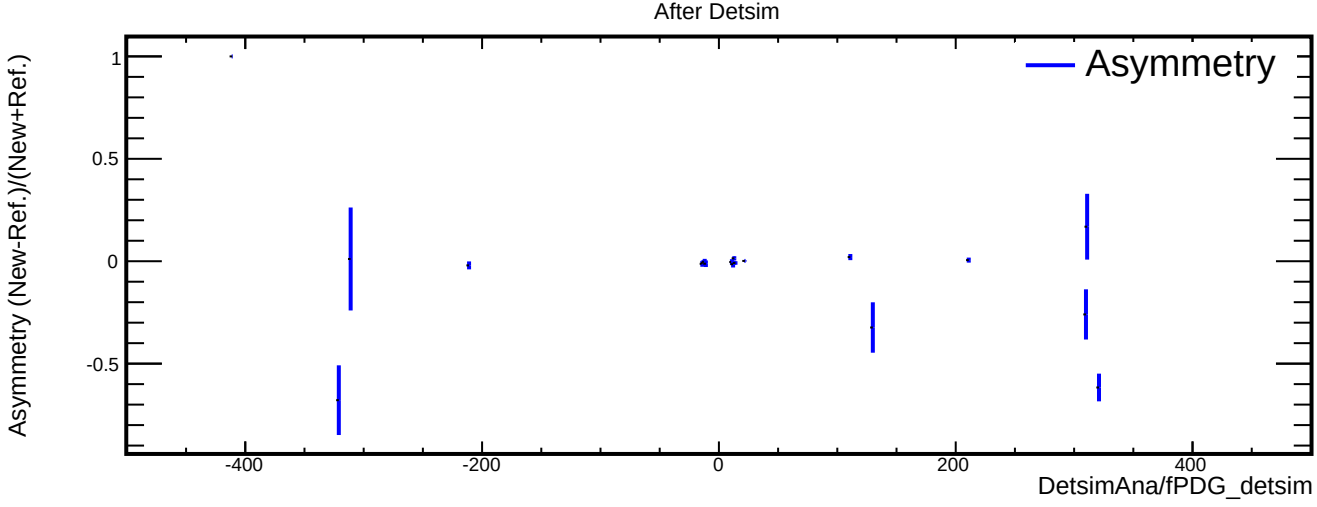

KS 7.39887e-08, chi2 7.8392e-86
2012-06-19
2012-06-20
0
50
100
150
200
0
200
400
600
800
1000
DetAna/fNumDigits

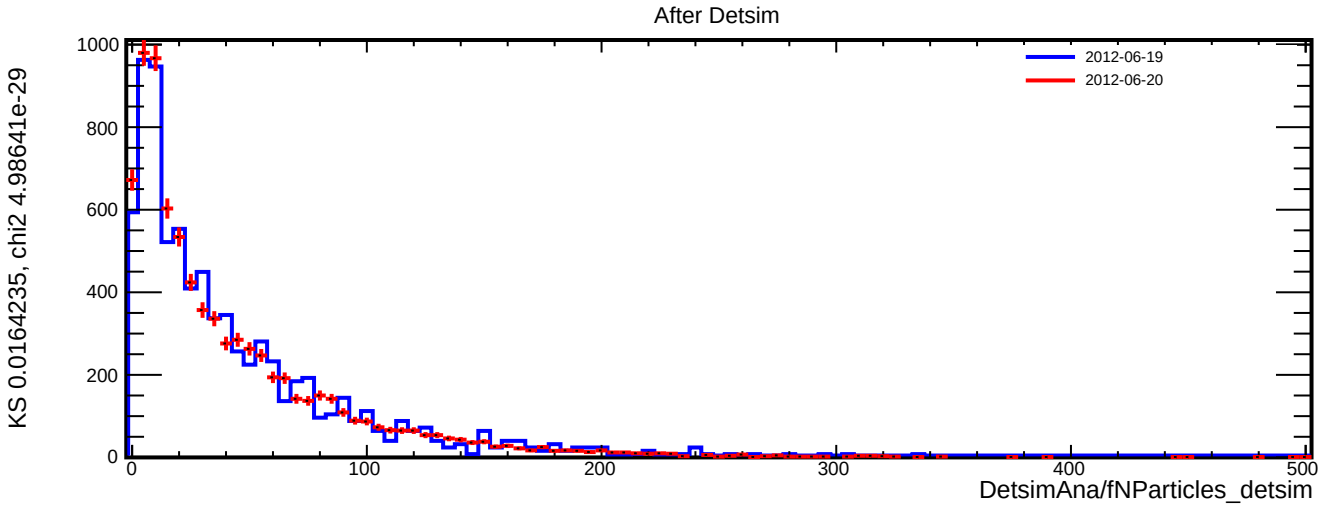

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
200
400
600
800
1000
DetAna/fNumDigits

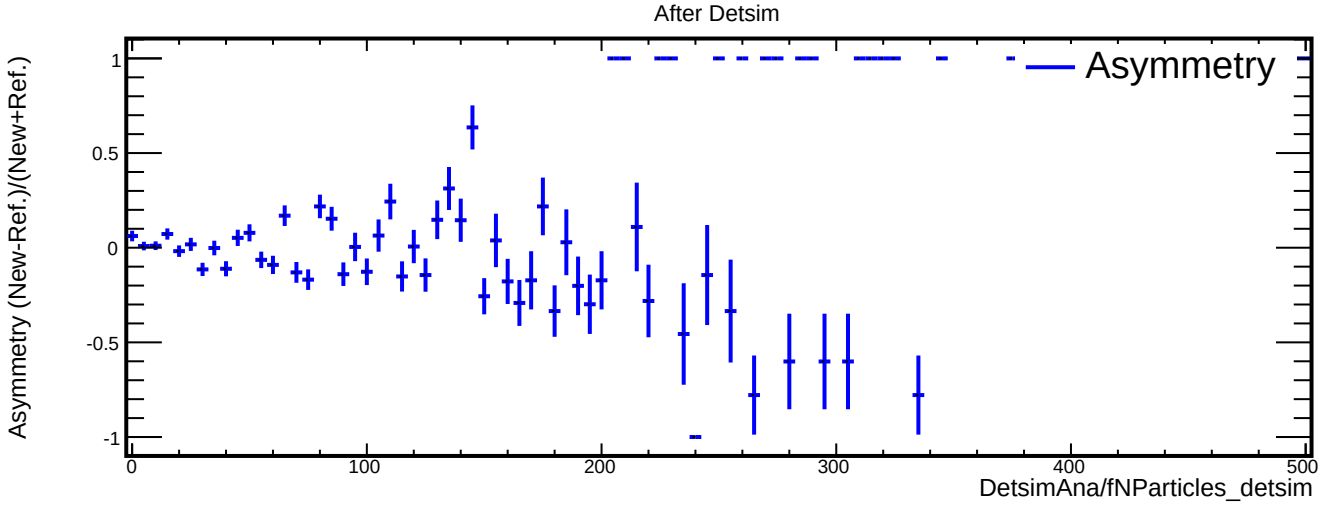

×10^3
100
80
60
40
20
0
KS 0, chi2 0
0
200
400
600
800
1000
DetAna/fADCs
2012-06-19
2012-06-20

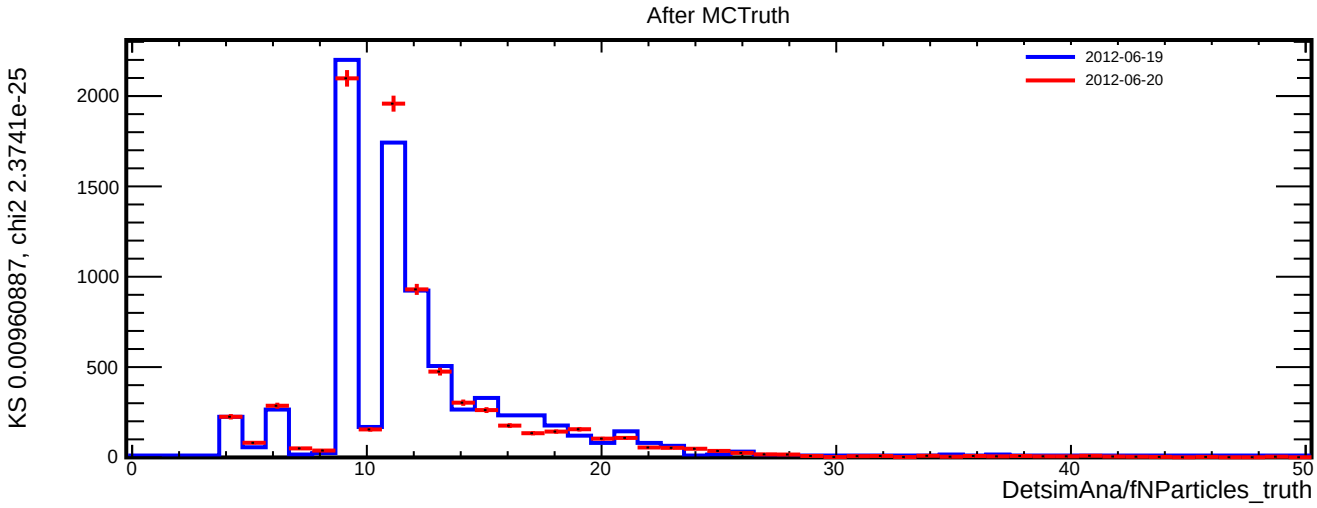

0.6
0.4
0.2
0
-0.2
-0.4
Asymmetry (New-Ref.)/(New+Ref.)
0
200
400
600
800
1000
DetAna/fADCs
Asymmetry

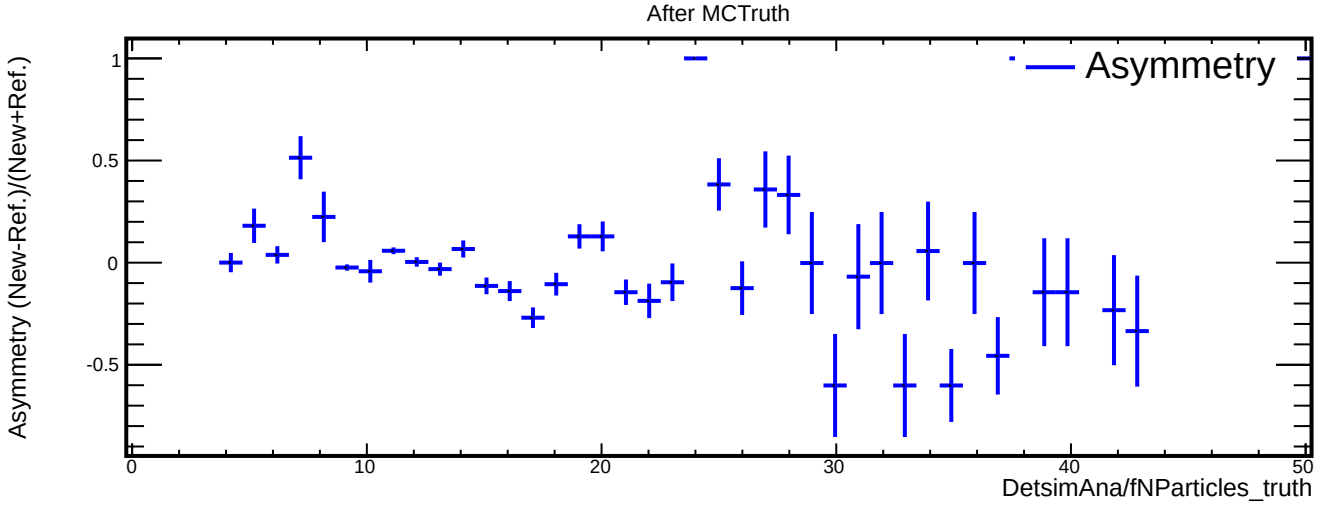

After Detsim
KS 0.838175, chi2 4.40082e-10
2012-06-19
2012-06-20
80000
60000
40000
20000
0
-400
-200
0
200
400
DetsimAna/fPDG_detsim

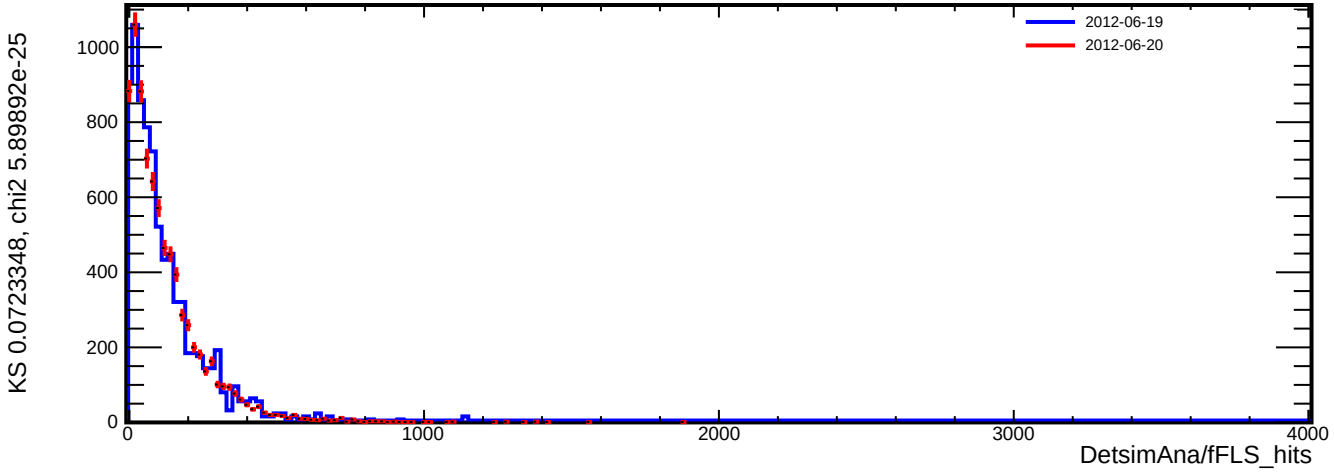

After Detsim
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-400
-200
0
200
400
DetsimAna/fPDG_detsim

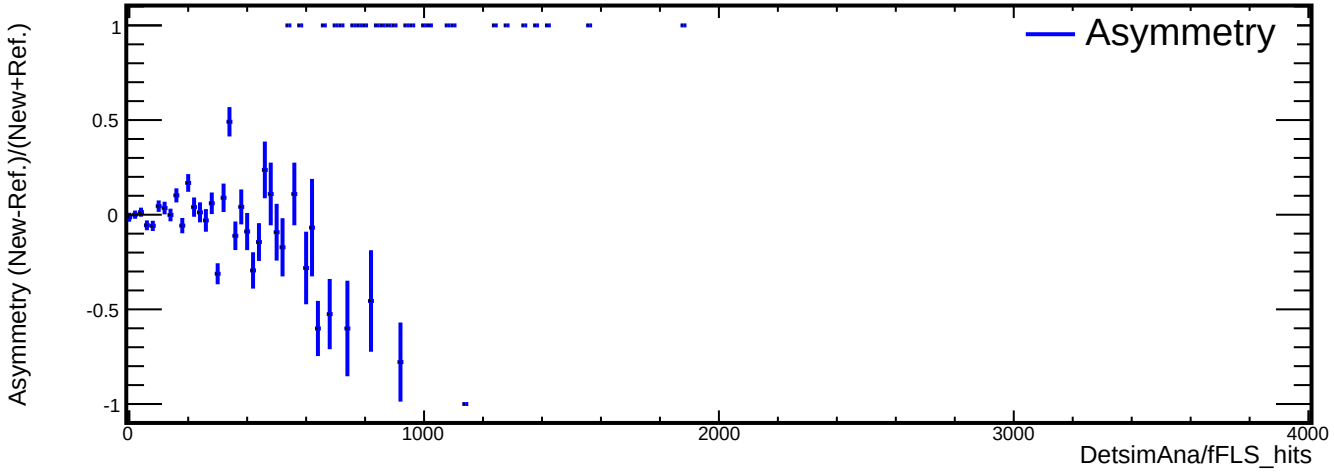

After Detsim
KS 0.0164235, chi2 4.98641e-29
2012-06-19
2012-06-20
DetsimAna/fNParticles_detsim

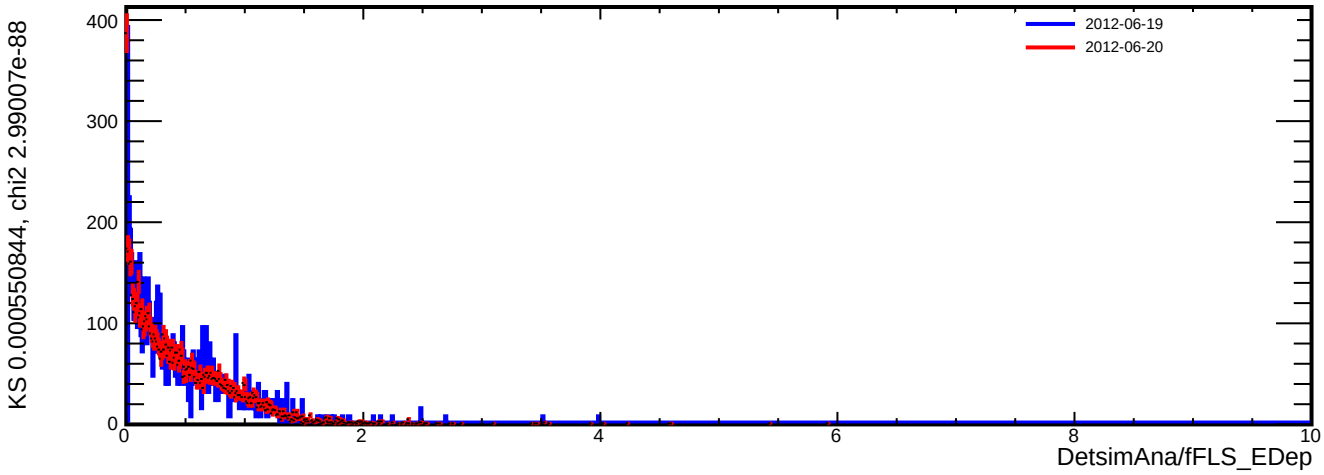

After Detsim
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
DetsimAna/fNParticles_detsim

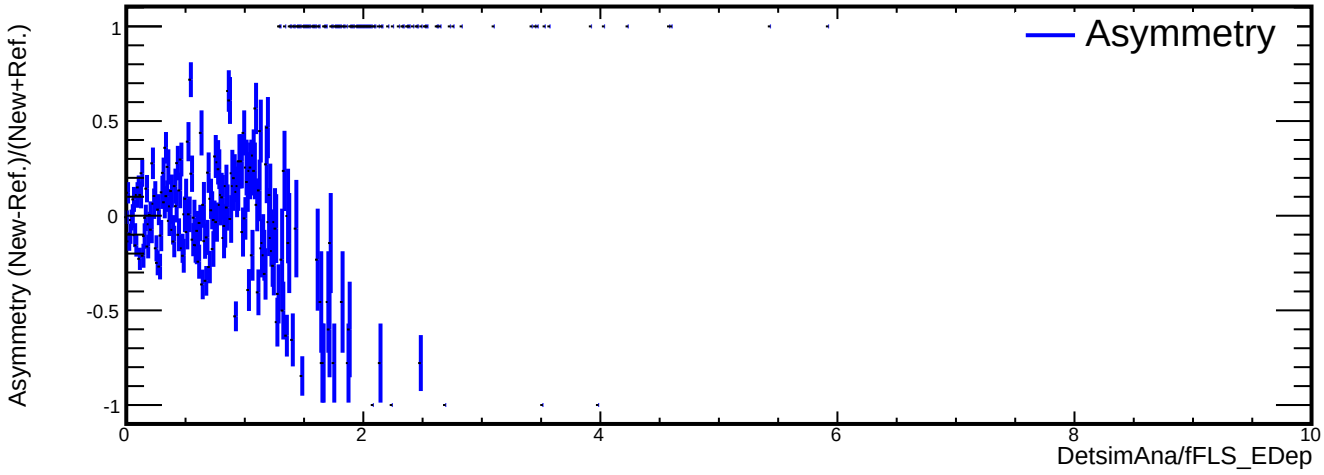

After MCTruth
KS 0.00960887, chi2 2.3741e-25
2012-06-19
2012-06-20
2000
1500
1000
500
0
0
10
20
30
40
50
DetsimAna/fNParticles_truth

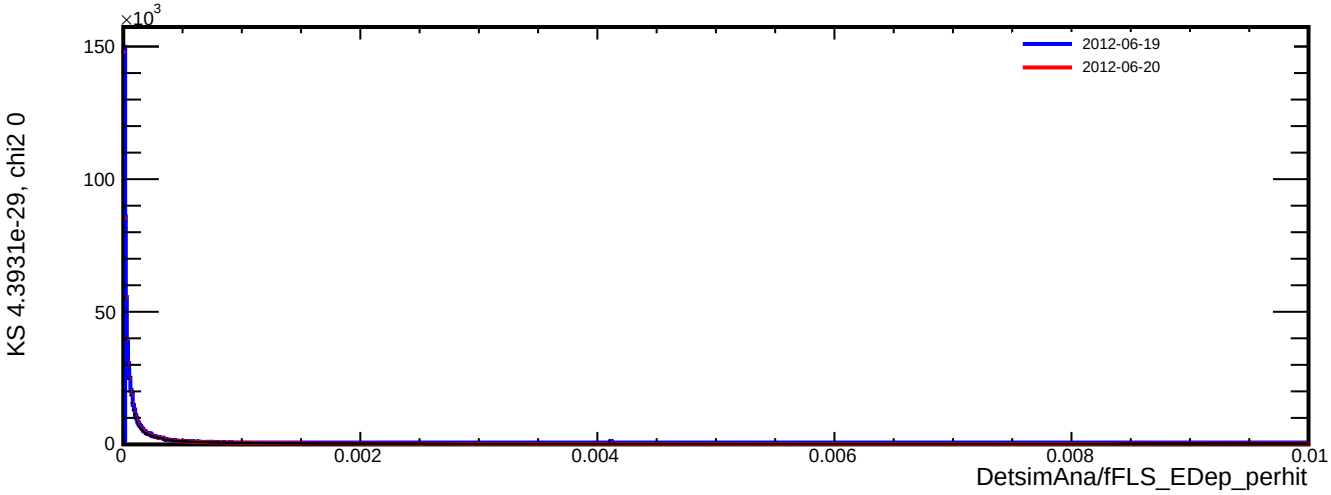

After MCTruth
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
0
10
20
30
40
50
DetsimAna/fNParticles_truth

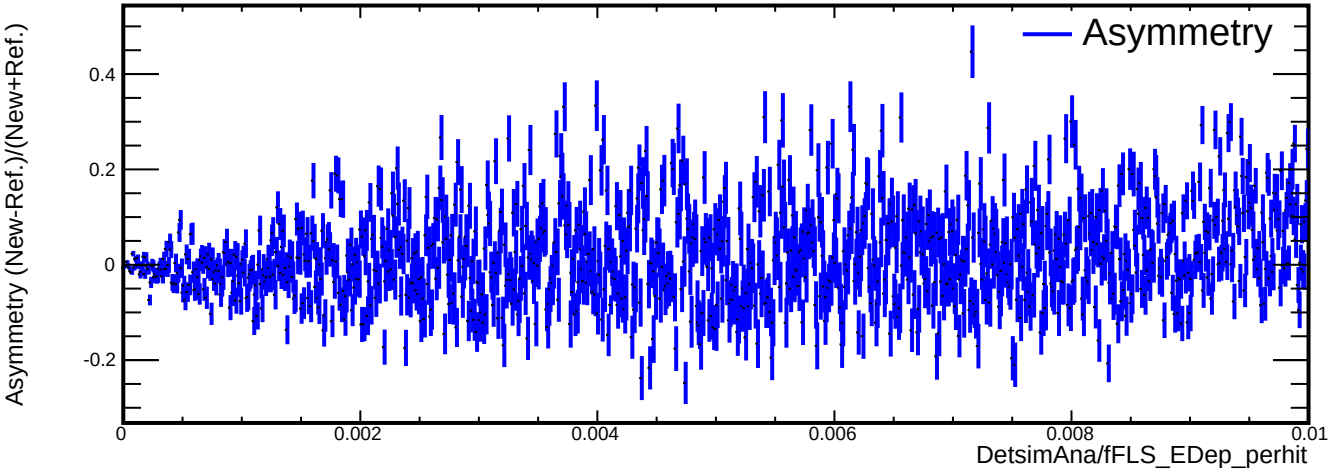

KS 0.0723348, chi2 5.89892e-25
2012-06-19
2012-06-20
1000
800
600
400
200
0
0
1000
2000
3000
4000
DetsimAna/fFLS_hits

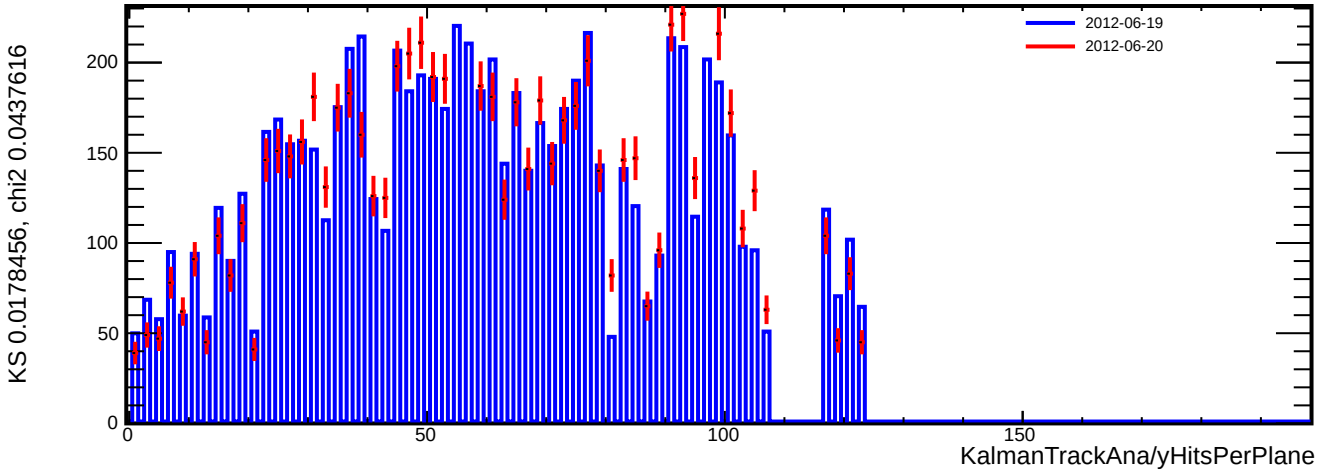

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
1000
2000
3000
4000
DetsimAna/fFLS_hits

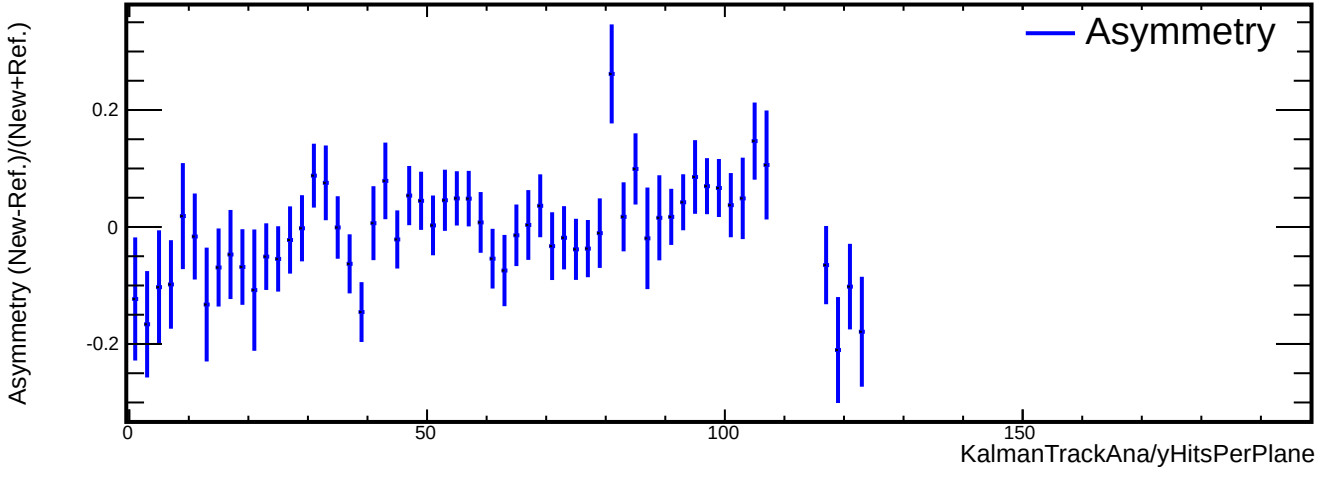

KS 0.000550844, chi2 2.99007e-88
400
300
200
100
0
0
2
4
6
8
10
DetsimAna/fFLS_EDep
2012-06-19
2012-06-20

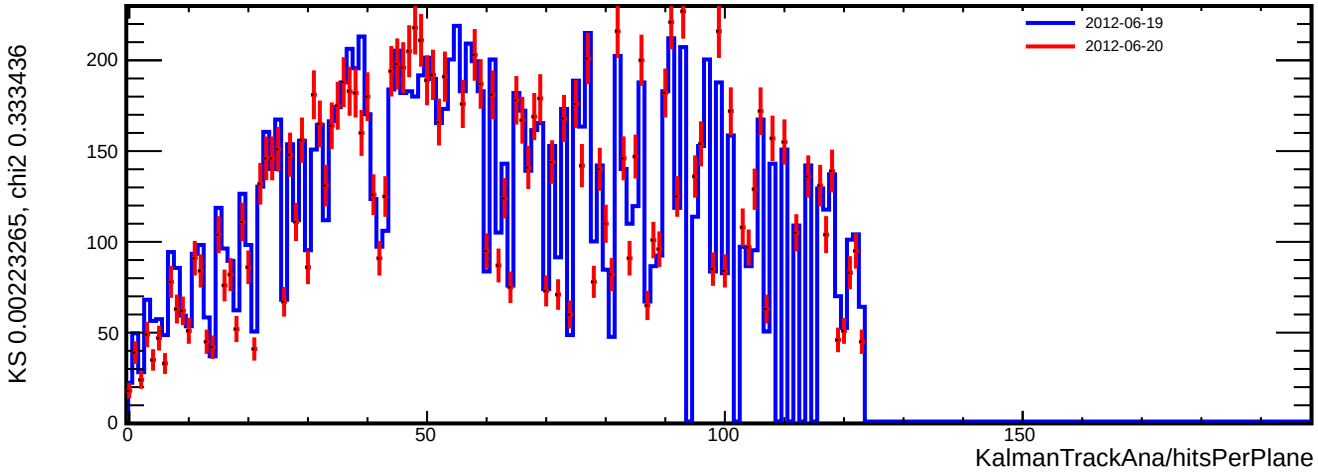

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
2
4
6
8
10
DetsimAna/fFLS_EDep
Asymmetry

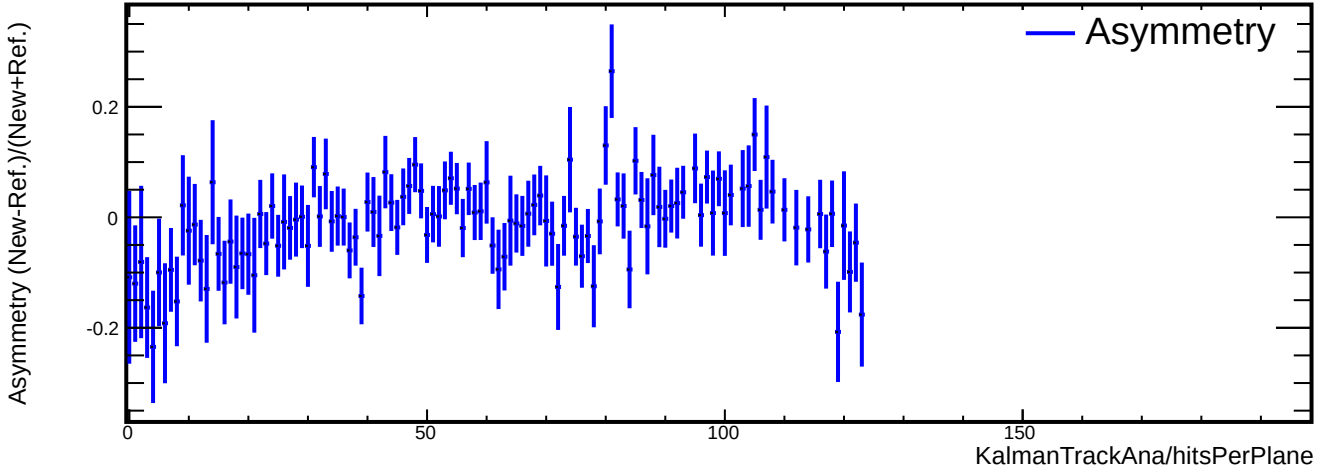

×10^3
150
100
50
0
KS 4.3931e-29, chi2 0
2012-06-19
2012-06-20
0
0.002
0.004
0.006
0.008
0.01
DetsimAna/fFLS_EDep_perhit

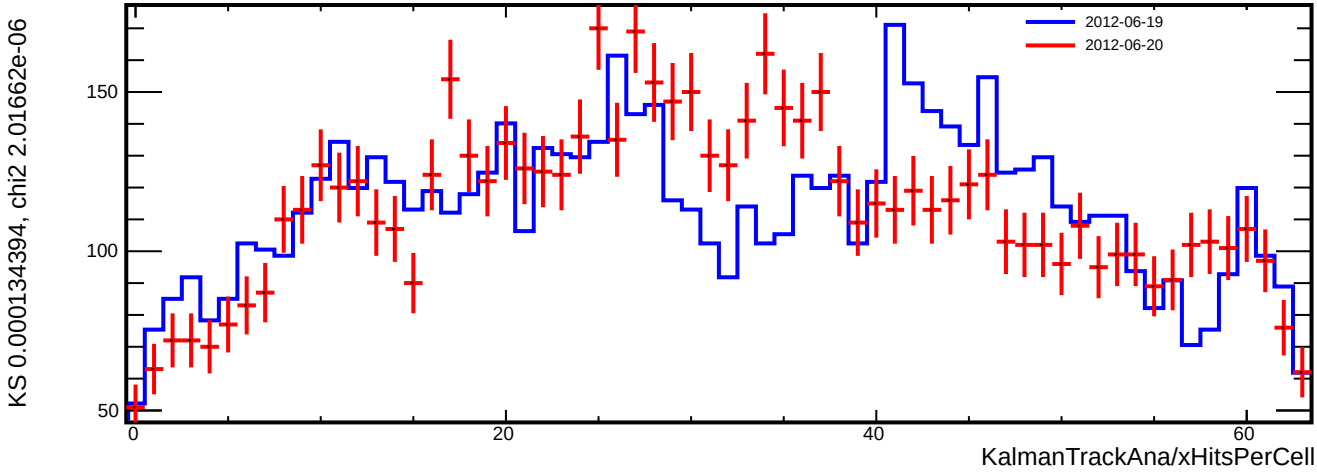

Asymmetry
0.4
0.2
0
-0.2
Asymmetry (New-Ref.)/(New+Ref.)
0
0.002
0.004
0.006
0.008
0.01
DetsimAna/fFLS_EDep_perhit

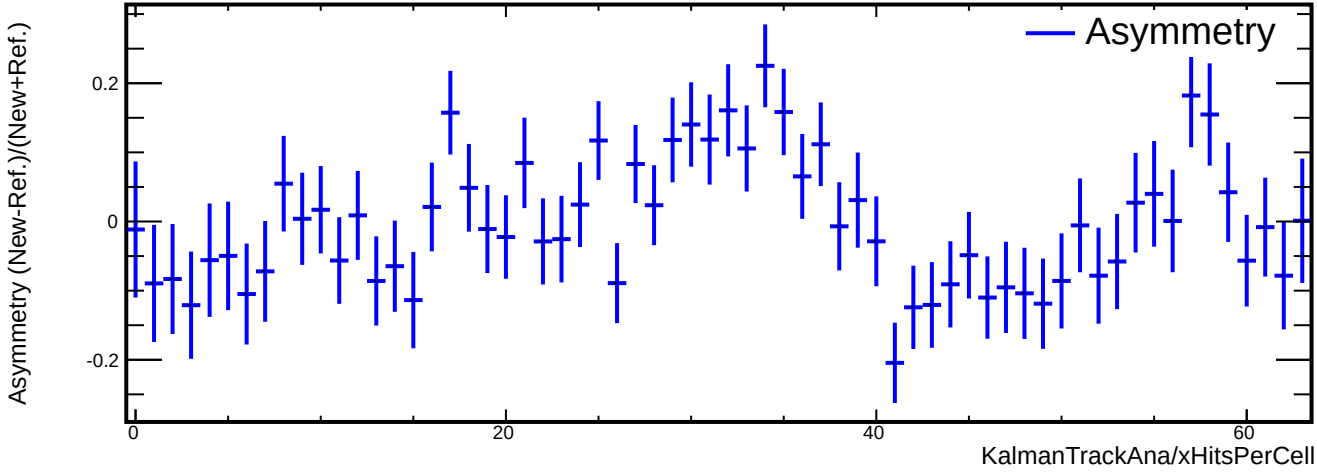

KS 0.0178456, chi2 0.0437616
2012-06-19
2012-06-20
0
50
100
150
200
0
50
100
150
KalmanTrackAna/yHitsPerPlane

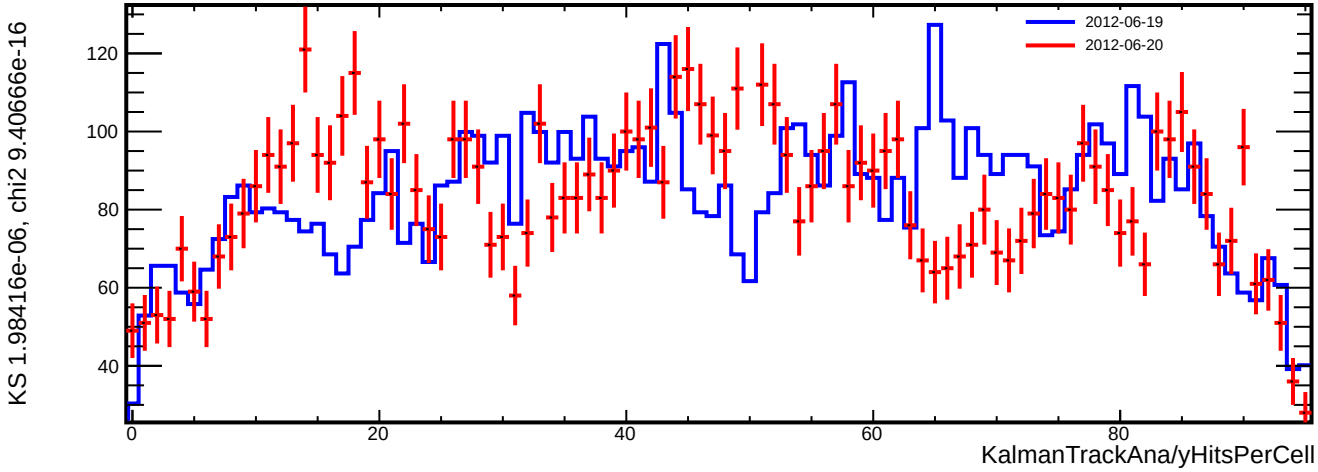

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0
-0.2
0
50
100
150
KalmanTrackAna/yHitsPerPlane

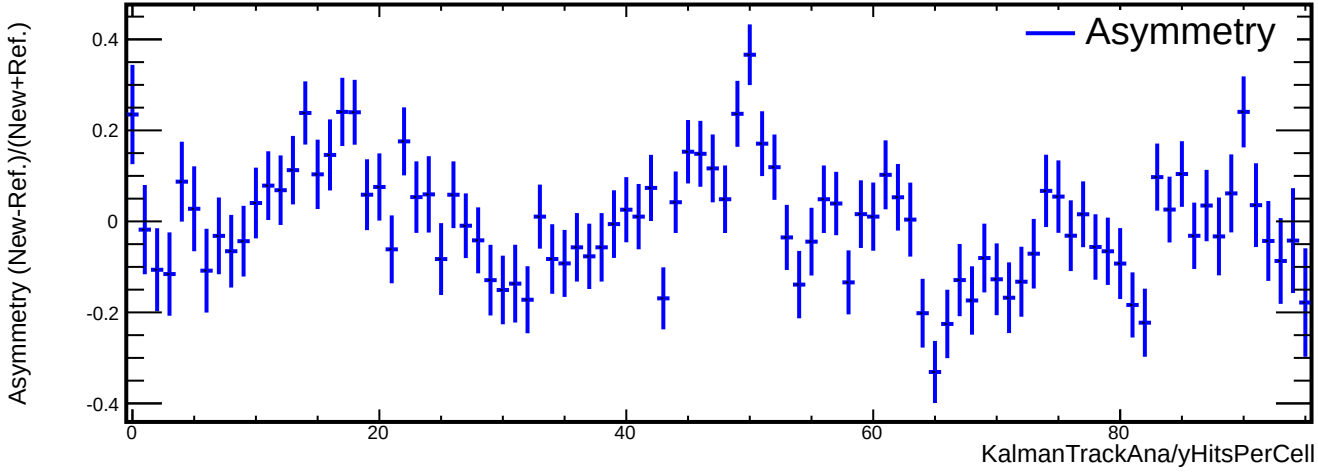

KS 0.00223265, chi2 0.333436
2012-06-19
2012-06-20
0
50
100
150
200
0
50
100
150
KalmanTrackAna/hitsPerPlane

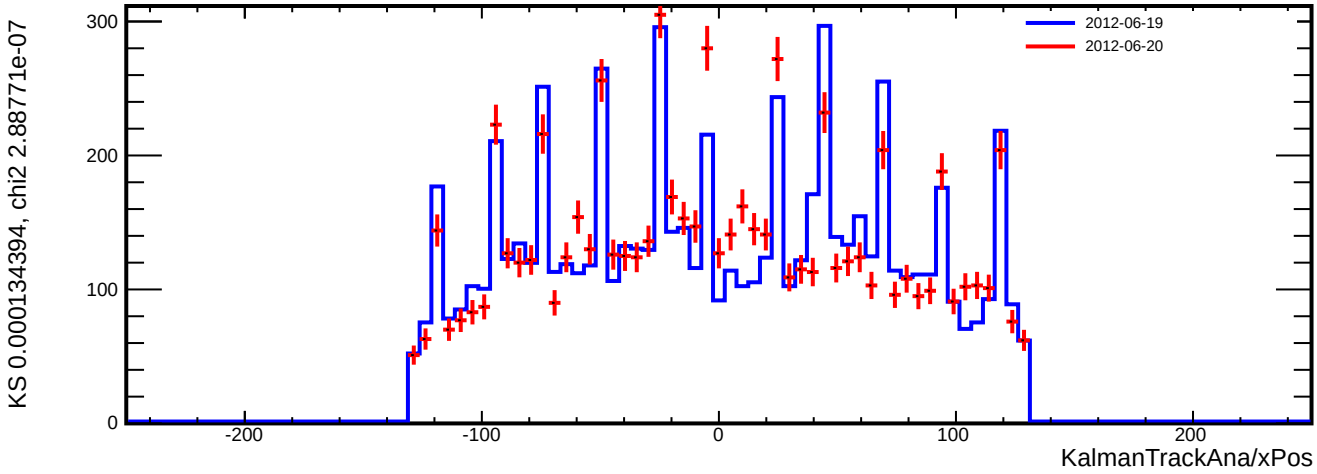

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0
-0.2
0
50
100
150
KalmanTrackAna/hitsPerPlane

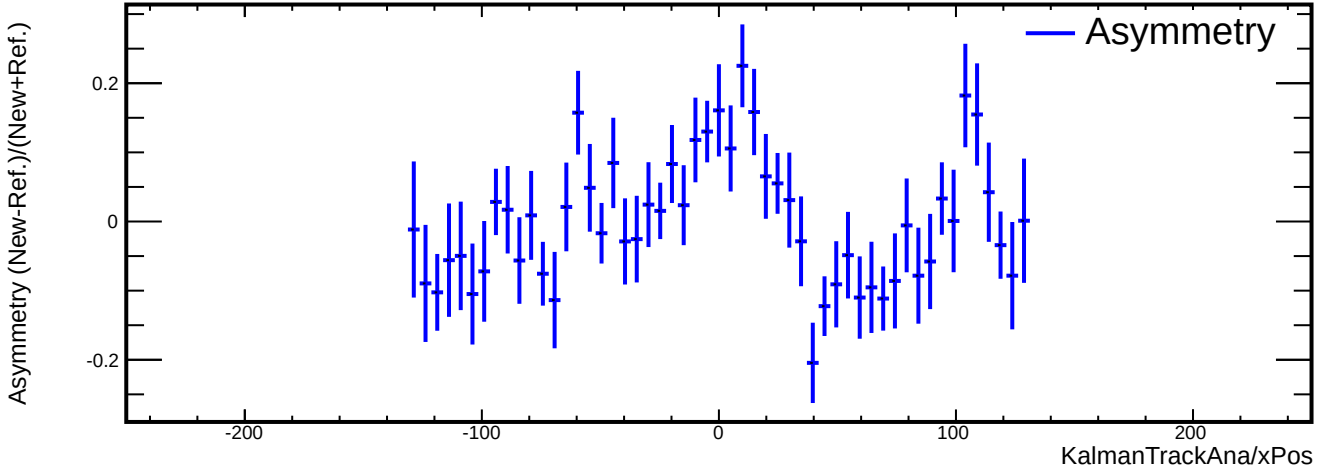

KS 0.000134394, chi2 2.01662e-06
150
100
50
0
20
40
60
KalmanTrackAna/xHitsPerCell
2012-06-19
2012-06-20

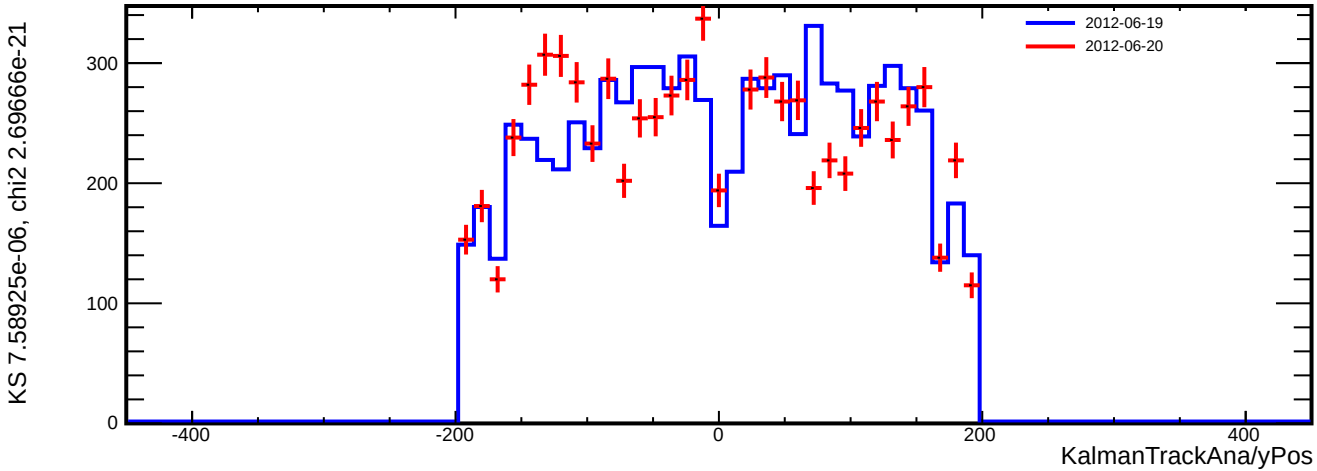

Asymmetry (New-Ref.)/(New+Ref.)
0.2
0
-0.2
0
20
40
60
KalmanTrackAna/xHitsPerCell
Asymmetry

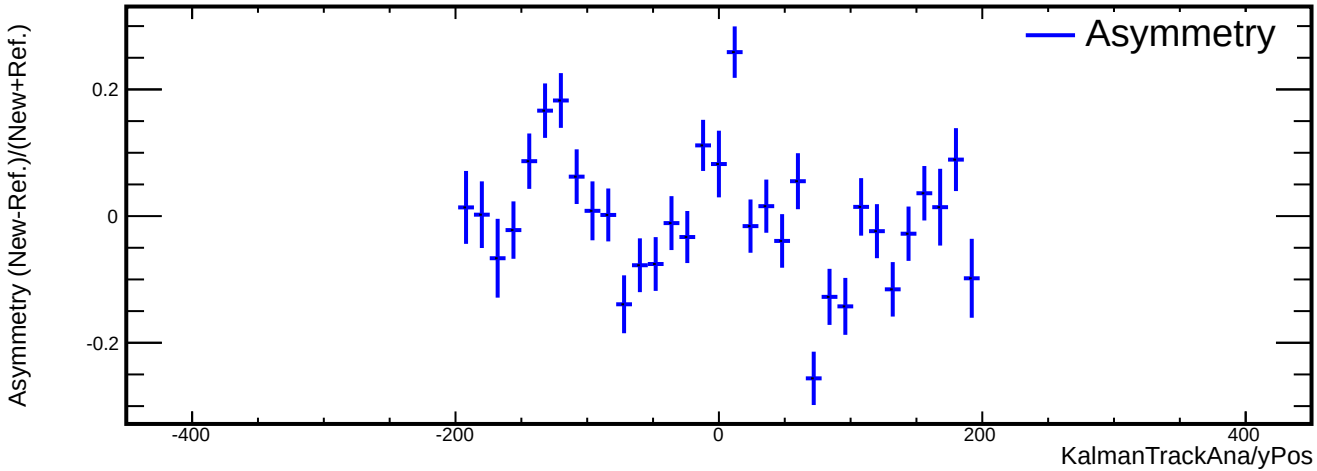

KS 1.98416e-06, chi2 9.40666e-16
2012-06-19
2012-06-20
120
100
80
60
40
0
20
40
60
80
KalmanTrackAna/yHitsPerCell

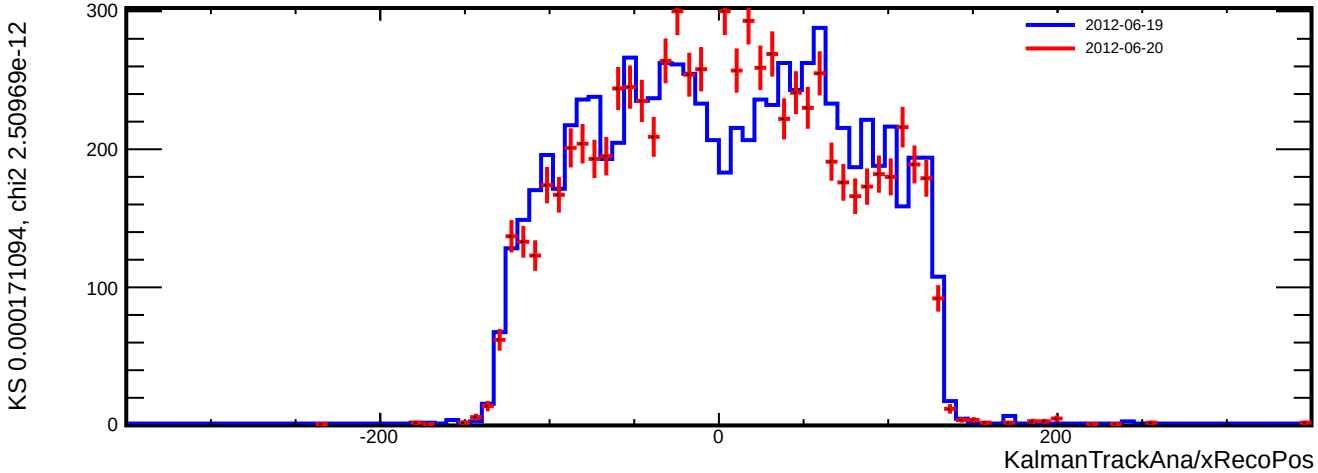

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.4
0.2
0
-0.2
-0.4
0
20
40
60
80
KalmanTrackAna/yHitsPerCell

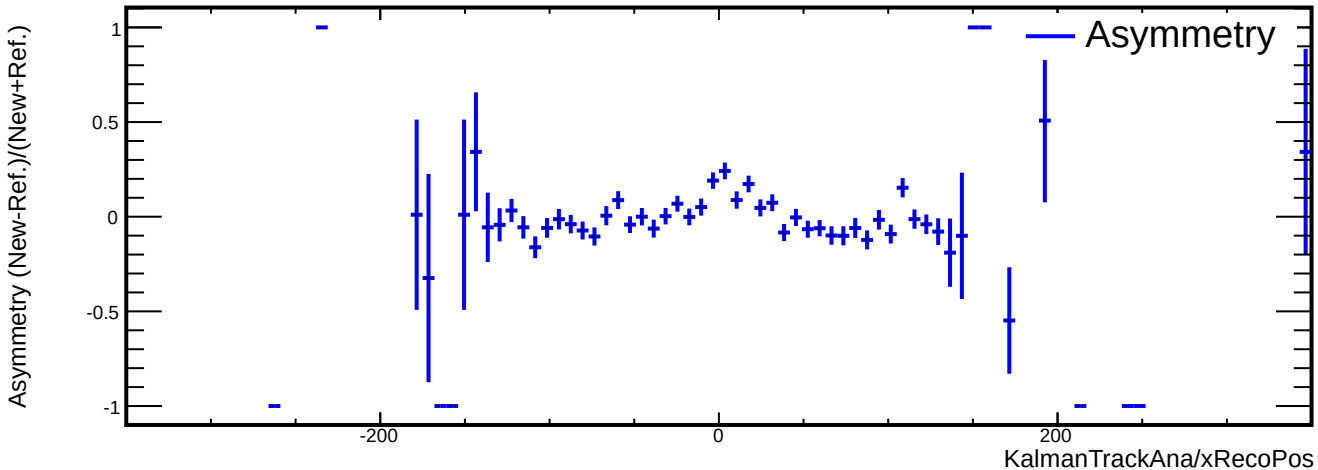

KS 0.000134394, chi2 2.88771e-07
300
200
100
0
-200
-100
0
100
200
KalmanTrackAna/xPos
2012-06-19
2012-06-20

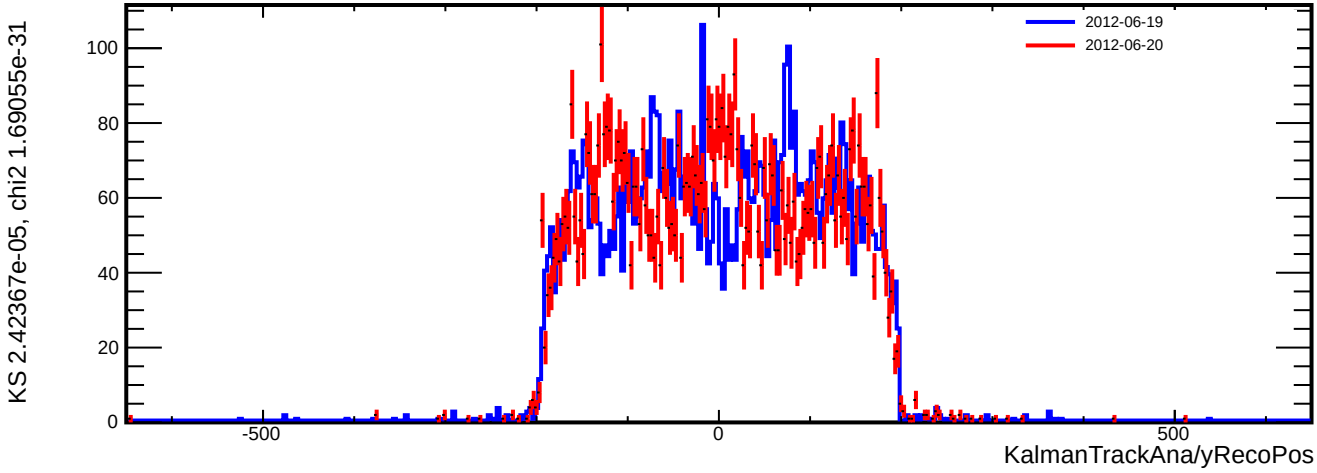

Asymmetry (New-Ref.)/(New+Ref.)
0.2
0
-0.2
-200
-100
0
100
200
KalmanTrackAna/xPos
Asymmetry

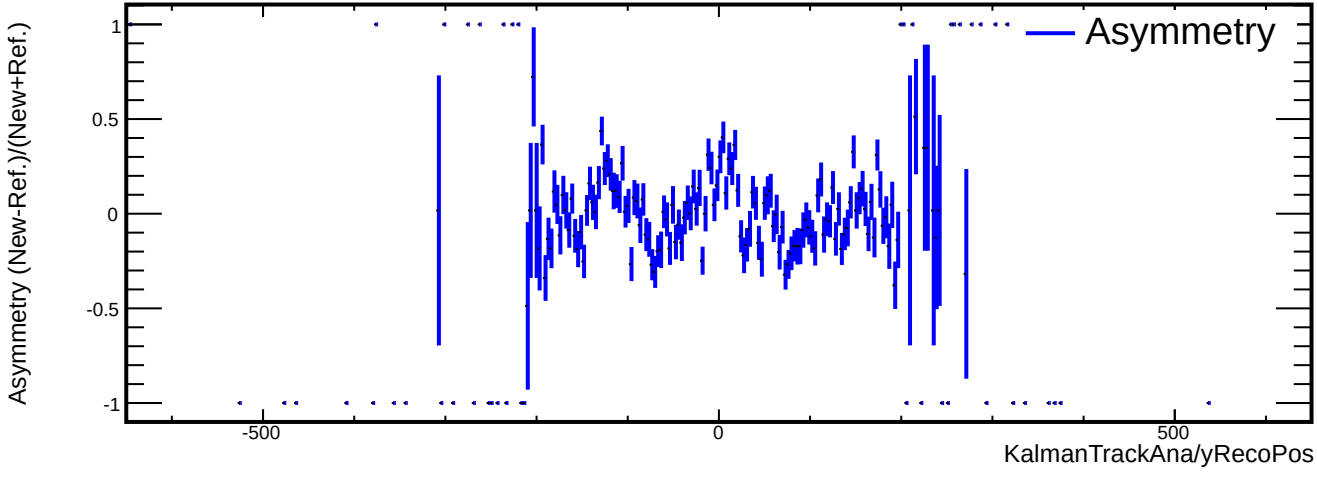

KS 7.58925e-06, chi2 2.69666e-21
2012-06-19
2012-06-20
300
200
100
0
-400
-200
0
200
400
KalmanTrackAna/yPos

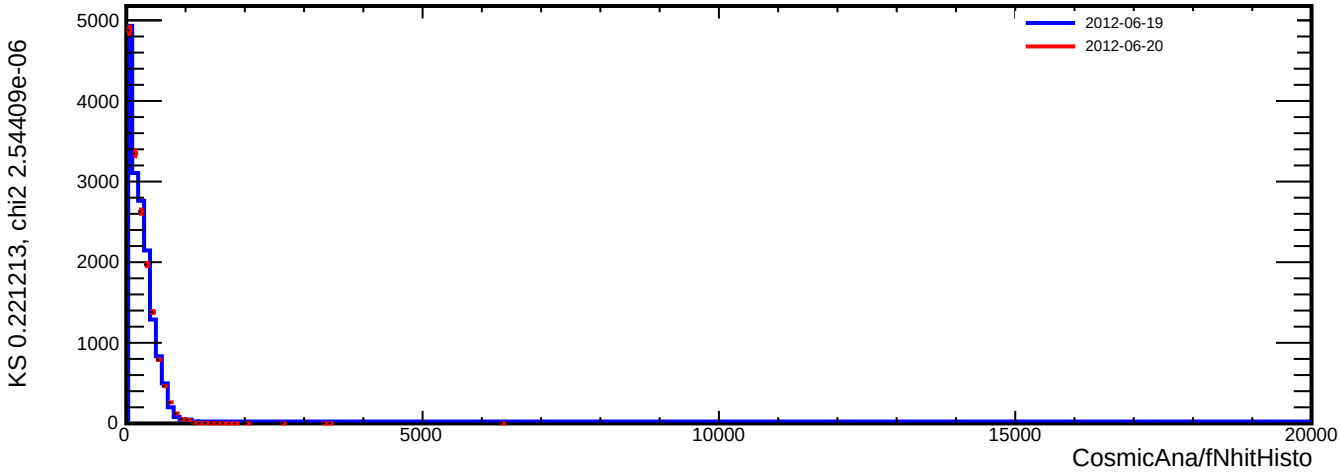

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0
-0.2
-400
-200
0
200
400
KalmanTrackAna/yPos

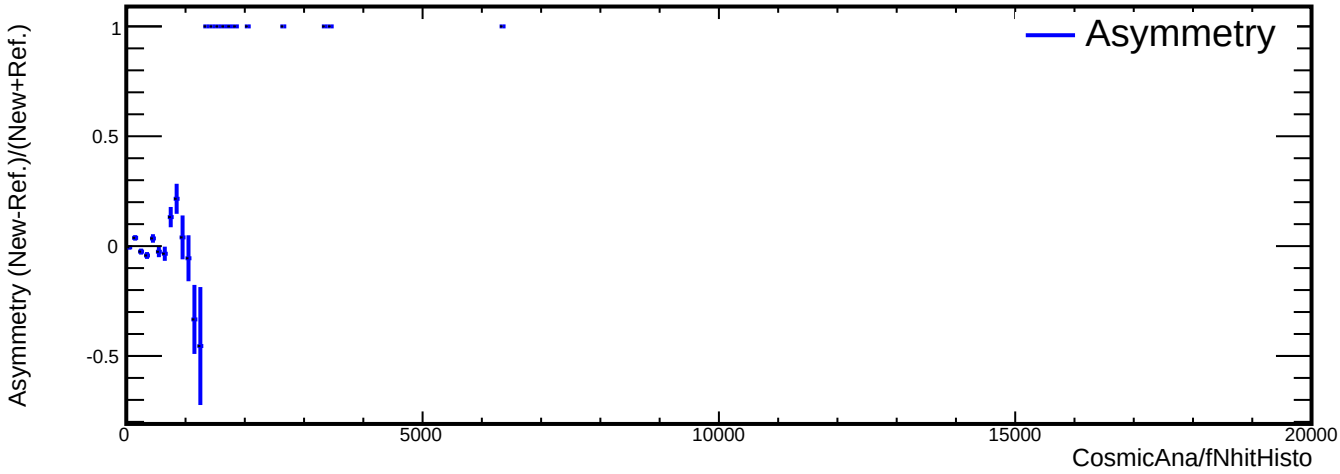

KS 0.000171094, chi2 2.50969e-12
300
200
100
0
-200
0
200
KalmanTrackAna/xRecoPos
2012-06-19
2012-06-20

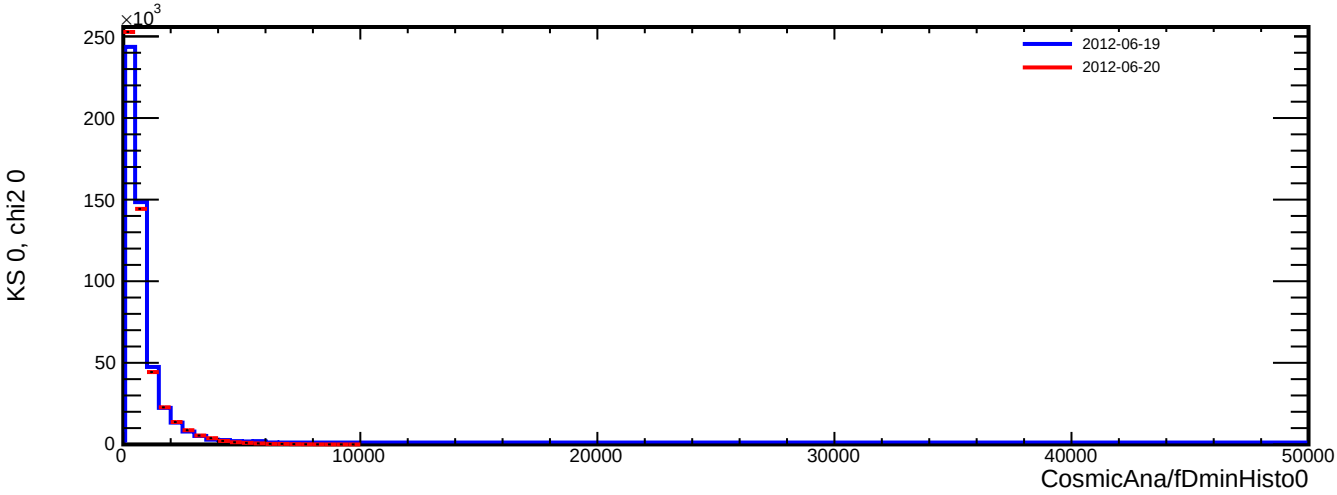

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
0
200
KalmanTrackAna/xRecoPos
Asymmetry

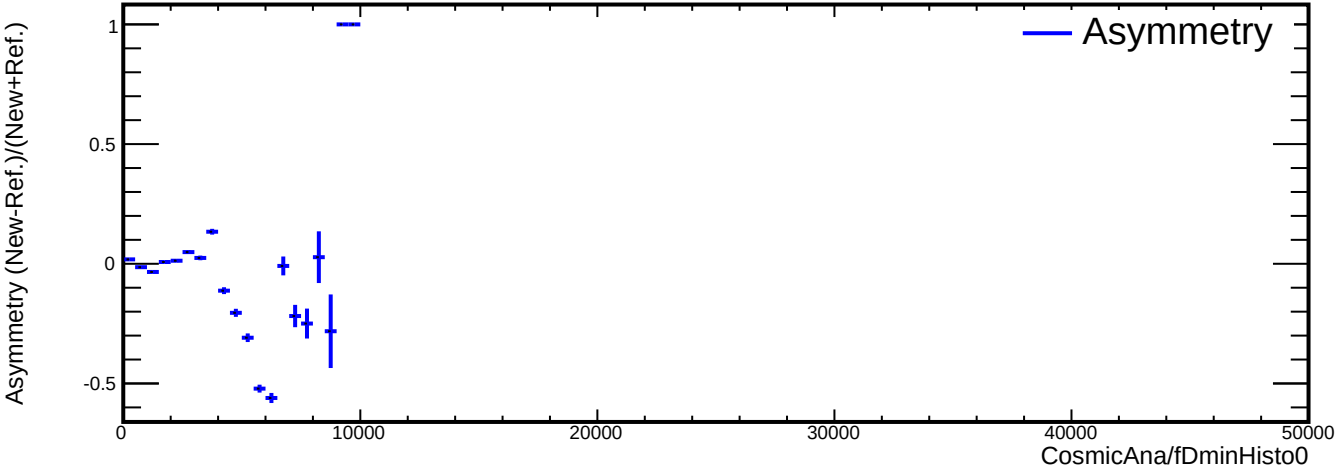

KS 2.42367e-05, chi2 1.69055e-31
2012-06-19
2012-06-20
100
80
60
40
20
0
-500
0
500
KalmanTrackAna/yRecoPos

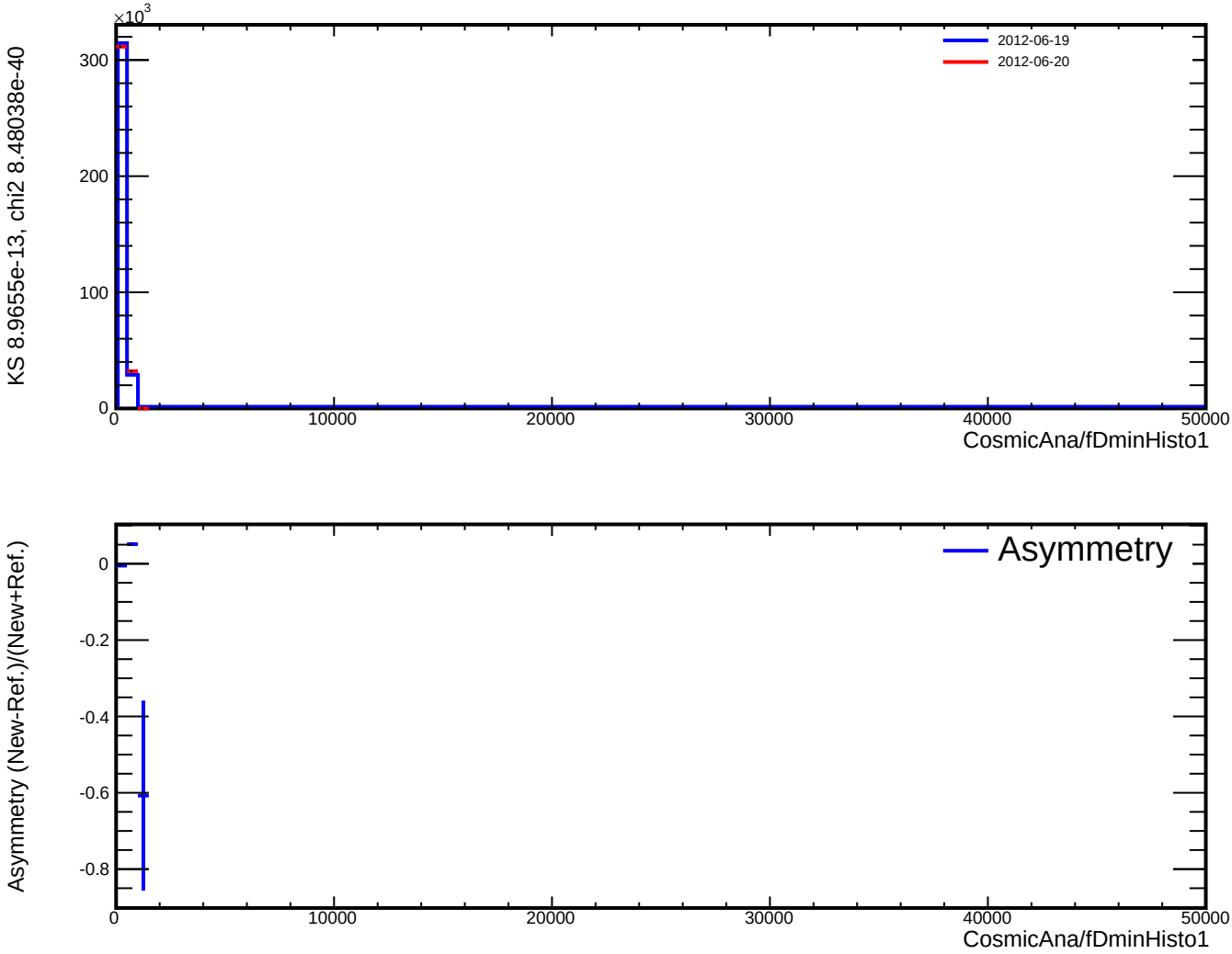

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-500
0
500
KalmanTrackAna/yRecoPos

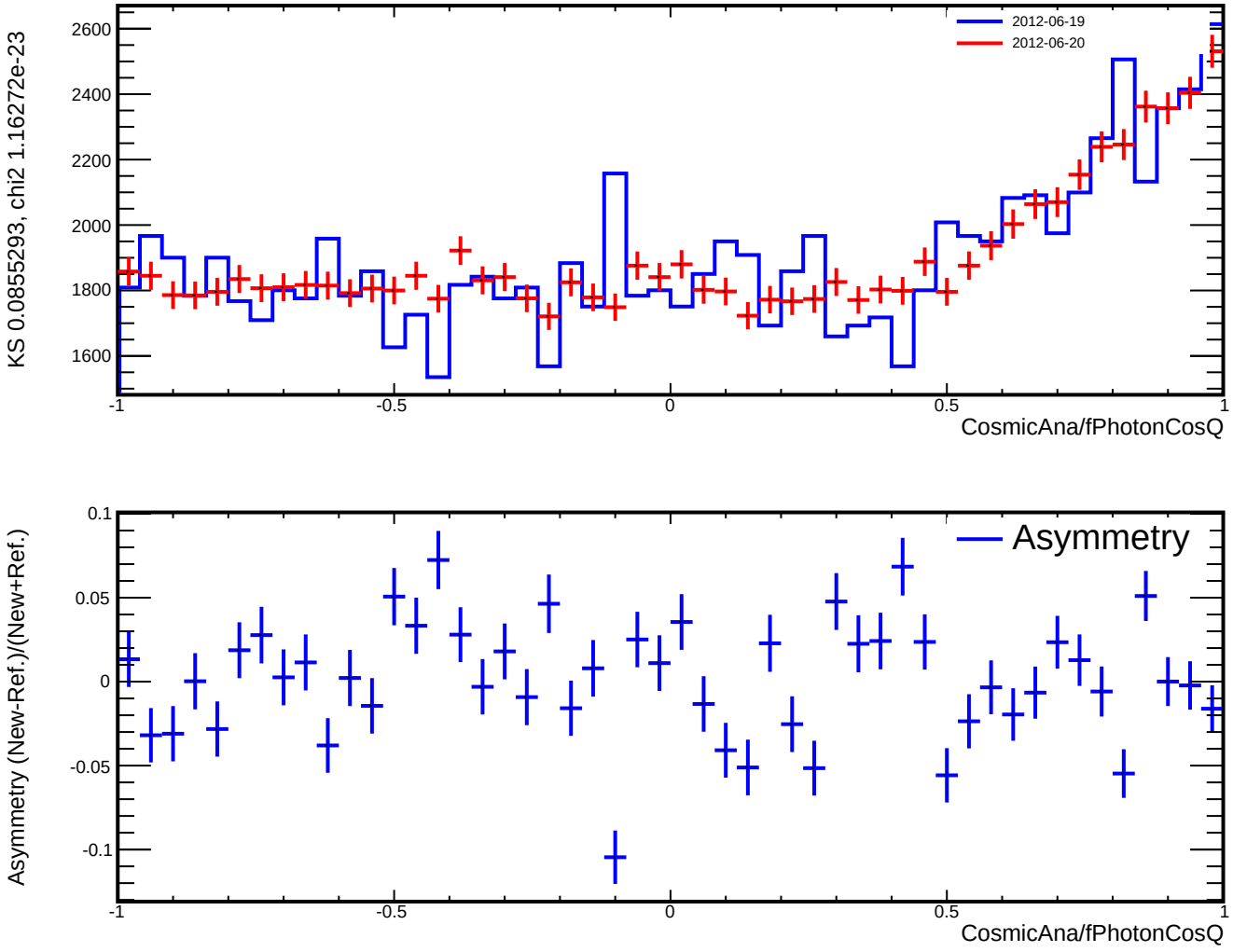

KS 0.221213, chi2 2.54409e-06
5000
4000
3000
2000
1000
0
0
5000
10000
15000
20000
CosmicAna/fNhitHisto
2012-06-19
2012-06-20

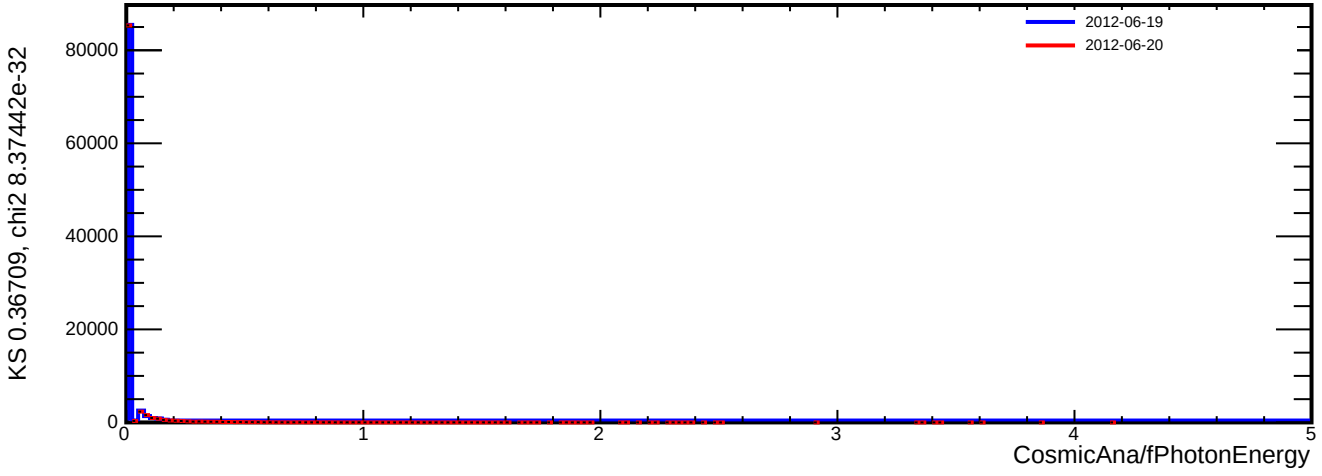

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
0
5000
10000
15000
20000
CosmicAna/fNhitHisto
Asymmetry

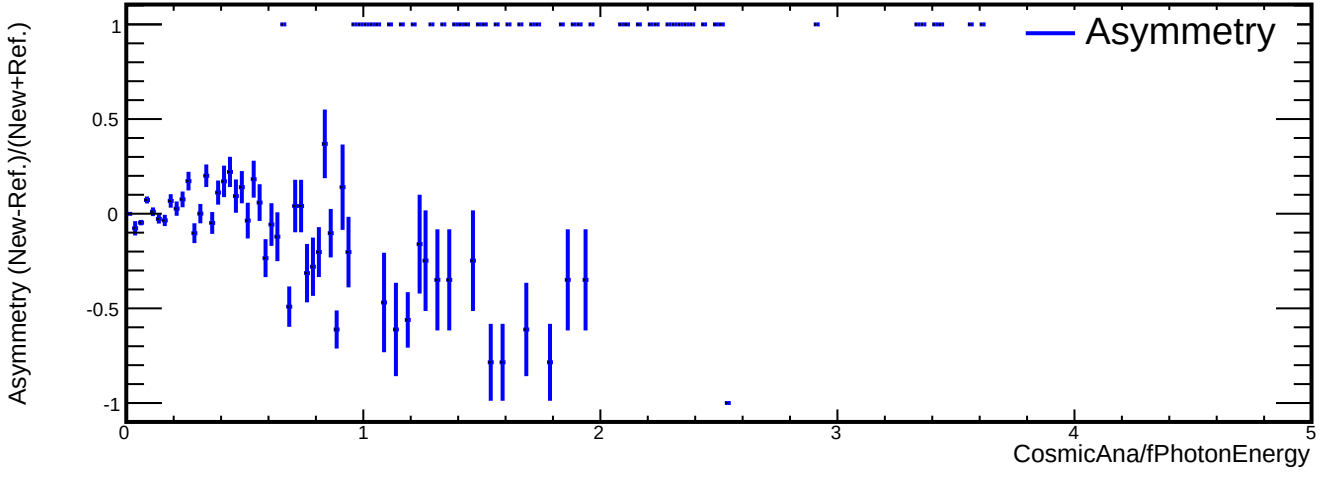

×10^3
250
200
150
100
50
0
KS 0, chi2 0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto0
2012-06-19
2012-06-20

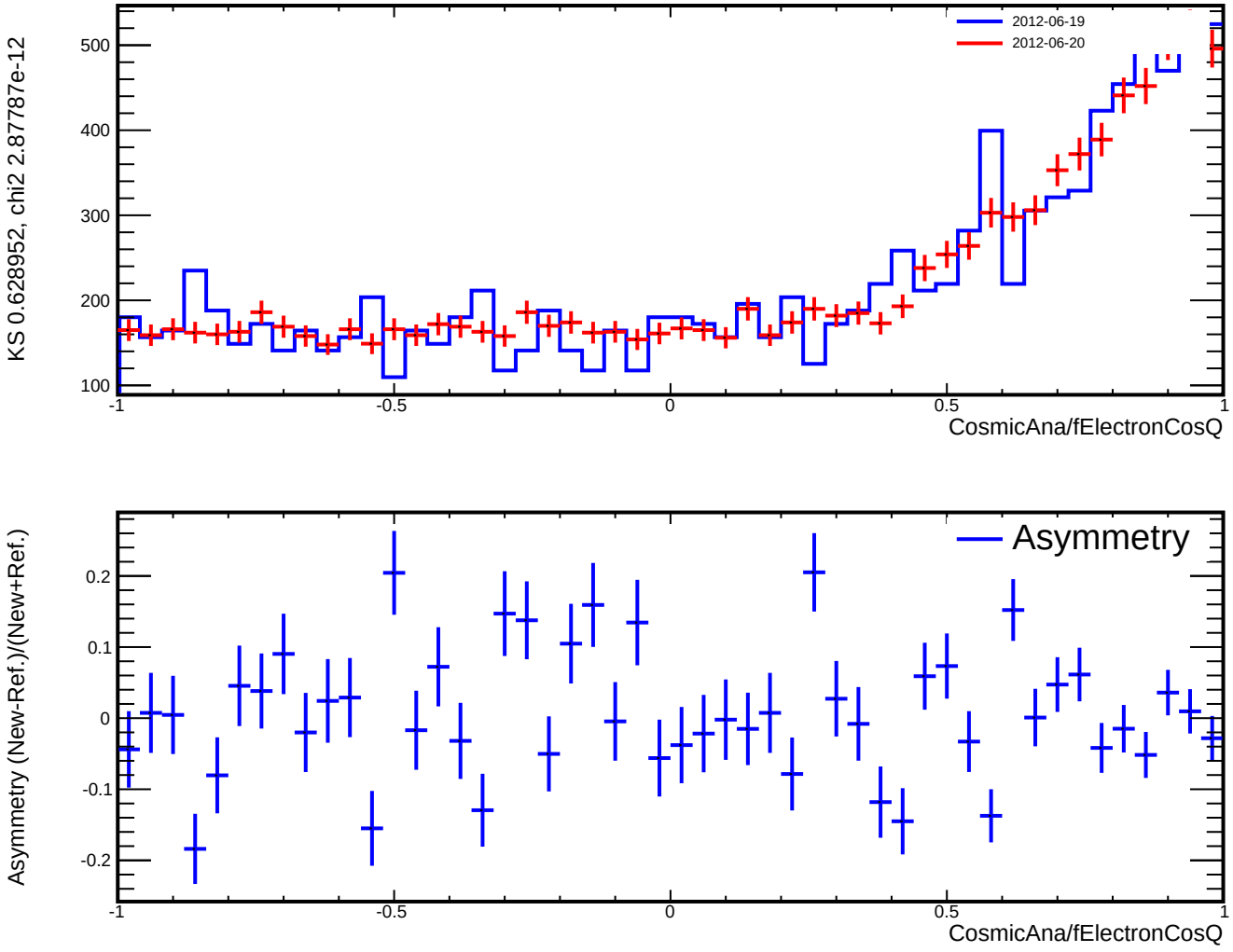

1
0.5
0
-0.5
Asymmetry (New-Ref.)/(New+Ref.)
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto0
Asymmetry

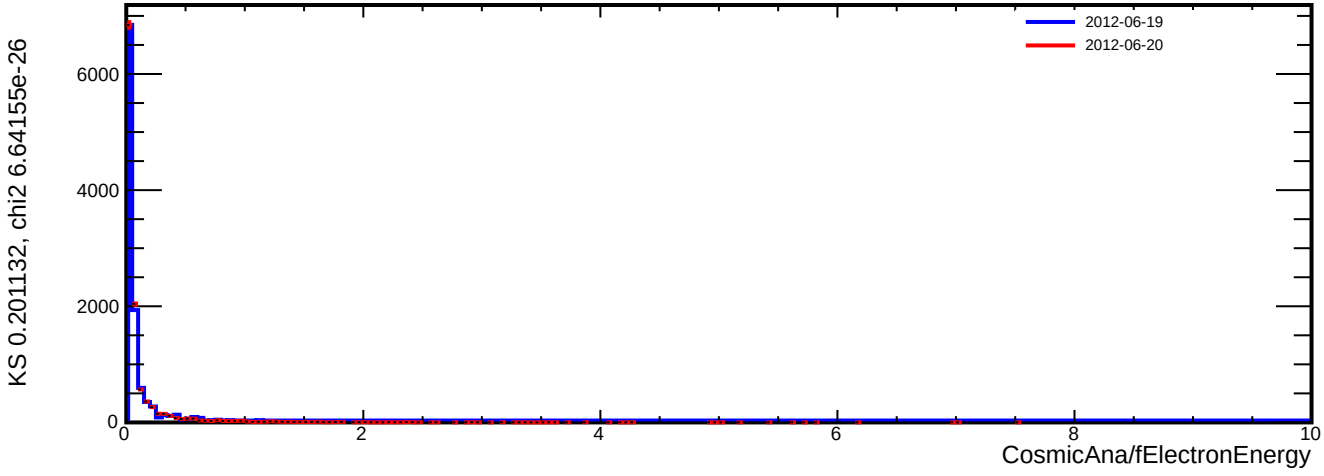

KS 8.9655e-13, chi2 8.48038e-40
×10^3
300
200
100
0
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto1
2012-06-19
2012-06-20
Asymmetry (New-Ref.)/(New+Ref.)
0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
CosmicAna/fDminHisto1
Asymmetry

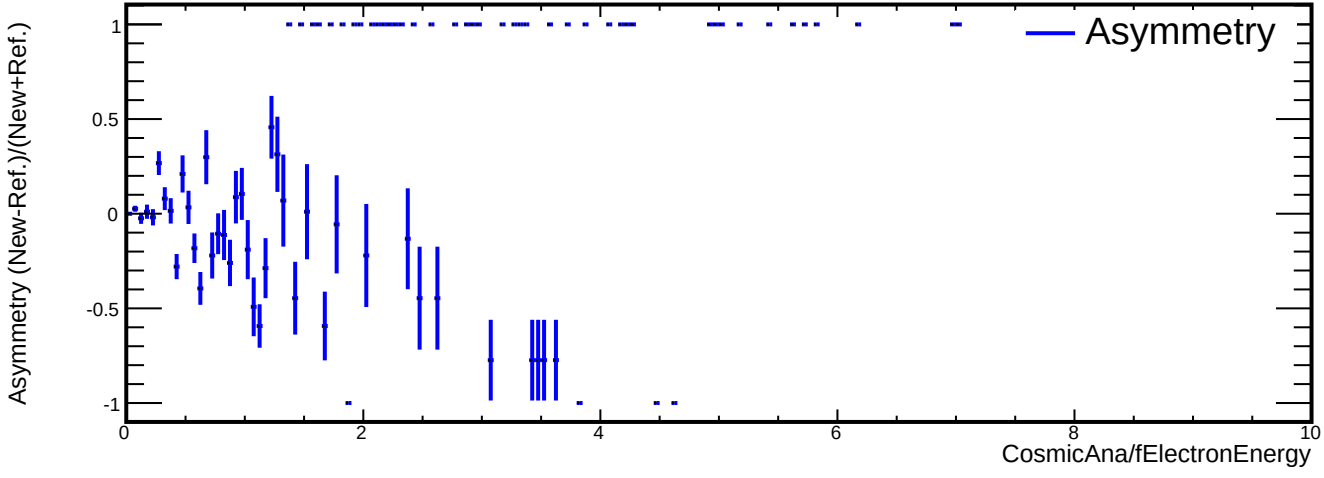

KS 0.0855293, chi2 1.16272e-23
2012-06-19
2012-06-20
2600
2400
2200
2000
1800
1600
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.1
0.05
0
-0.05
-0.1
-1
-0.5
0
0.5
1
CosmicAna/fPhotonCosQ

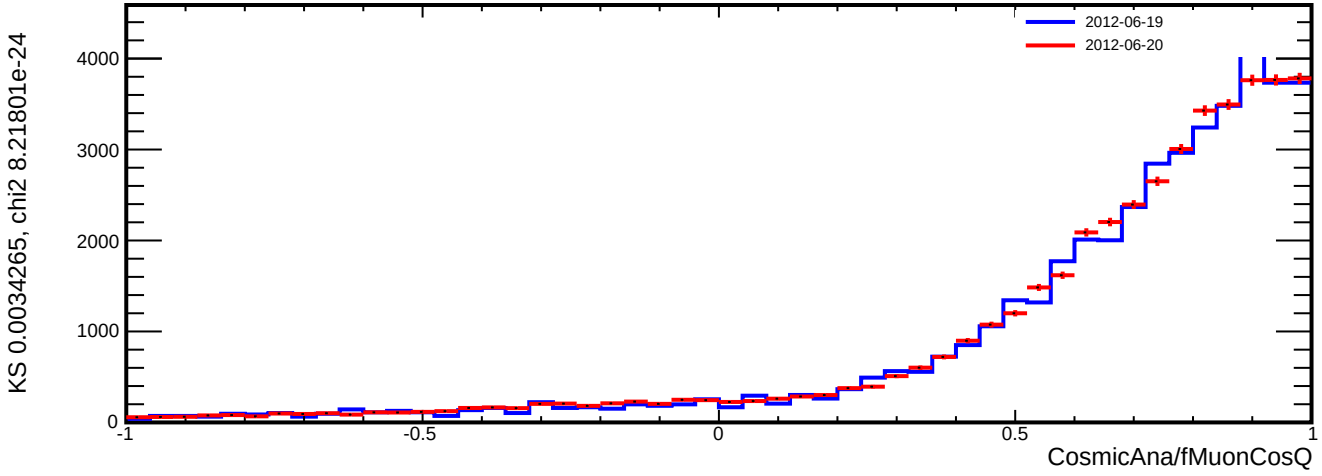

KS 0.36709, chi2 8.37442e-32
80000
60000
40000
20000
0
0
1
2
3
4
5
CosmicAna/fPhotonEnergy
2012-06-19
2012-06-20

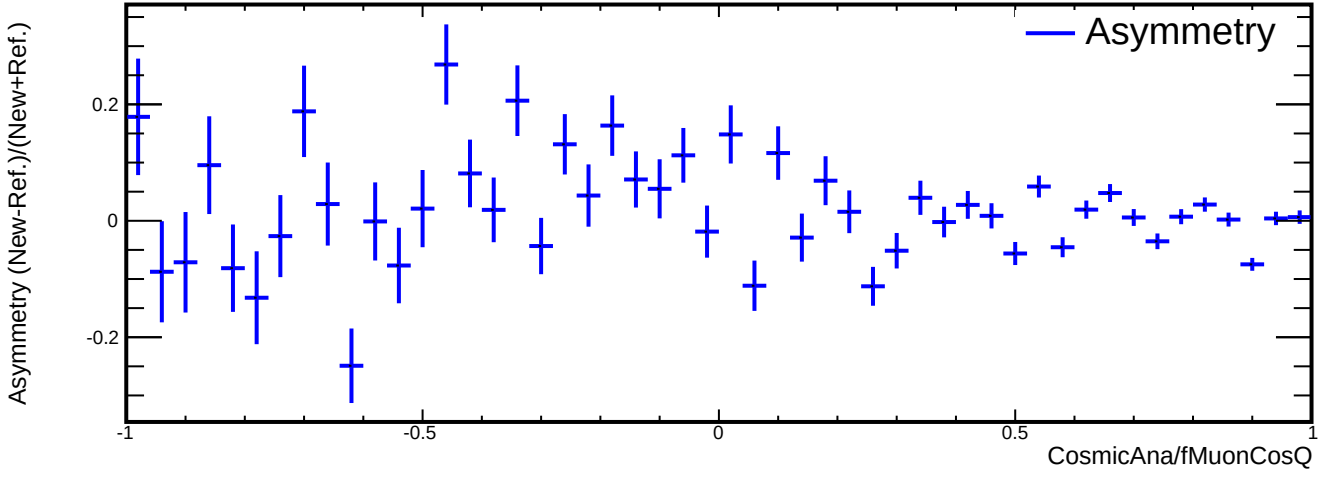

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
1
2
3
4
5
CosmicAna/fPhotonEnergy
Asymmetry

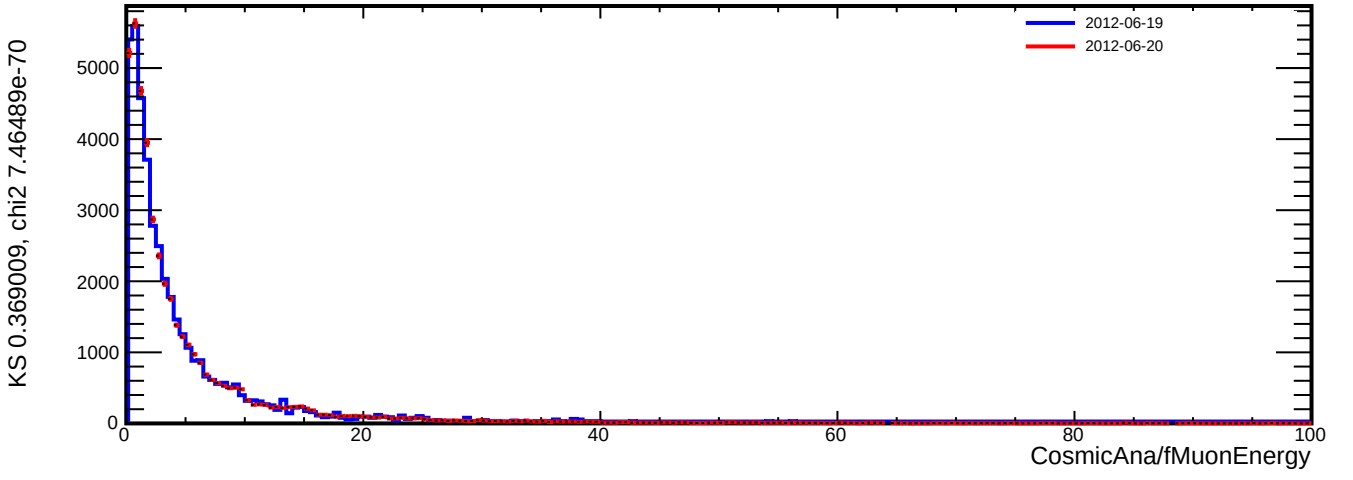

KS 0.628952, chi2 2.87787e-12
2012-06-19
2012-06-20
500
400
300
200
100
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0.1
0
-0.1
-0.2
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ

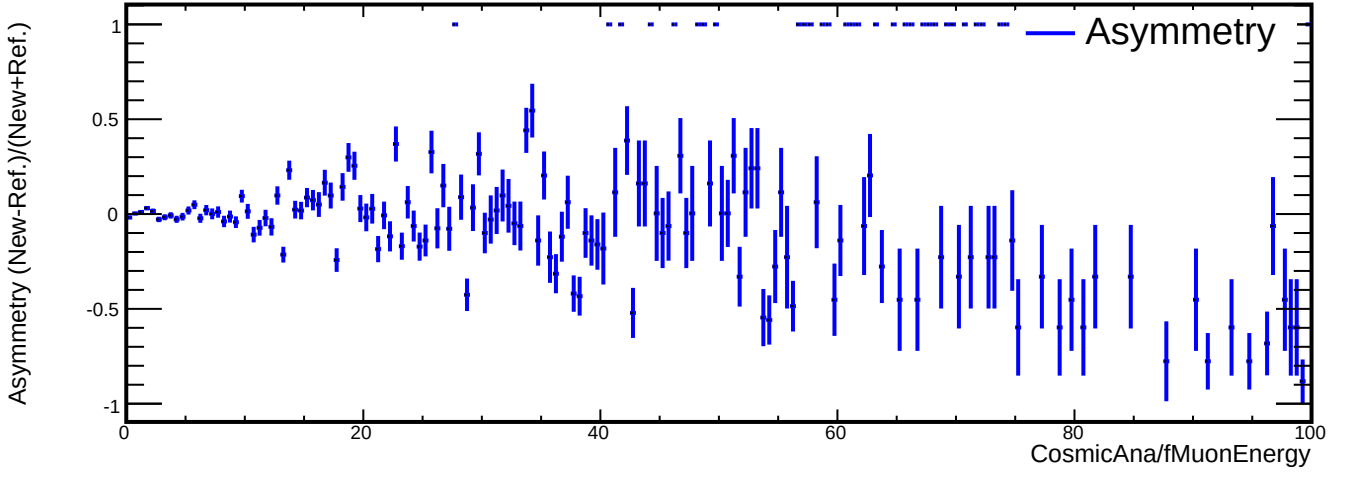

KS 0.201132, chi2 6.64155e-26
2012-06-19
2012-06-20
6000
4000
2000
0
0
2
4
6
8
10
CosmicAna/fElectronEnergy

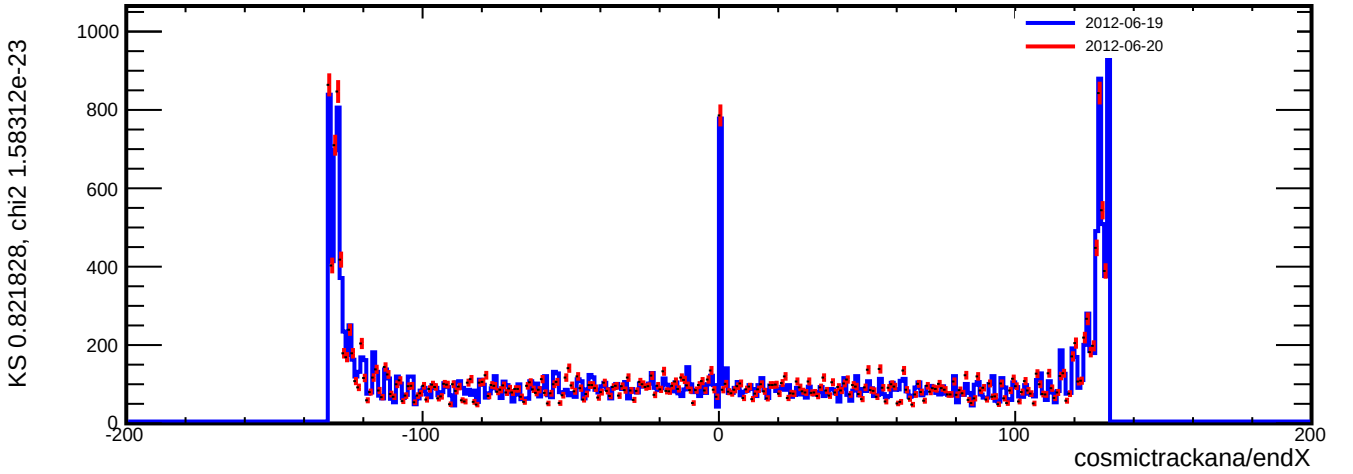

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
2
4
6
8
10
CosmicAna/fElectronEnergy

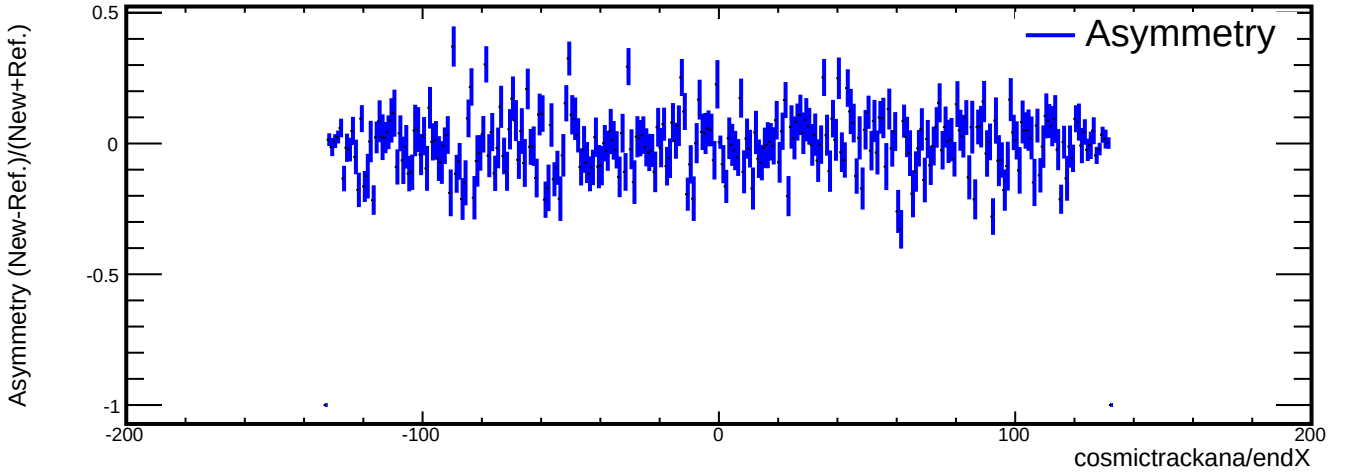

KS 0.0034265, chi2 8.21801e-24
2012-06-19
2012-06-20
4000
3000
2000
1000
0
-1
-0.5
0
0.5
1
CosmicAna/fMuonCosQ

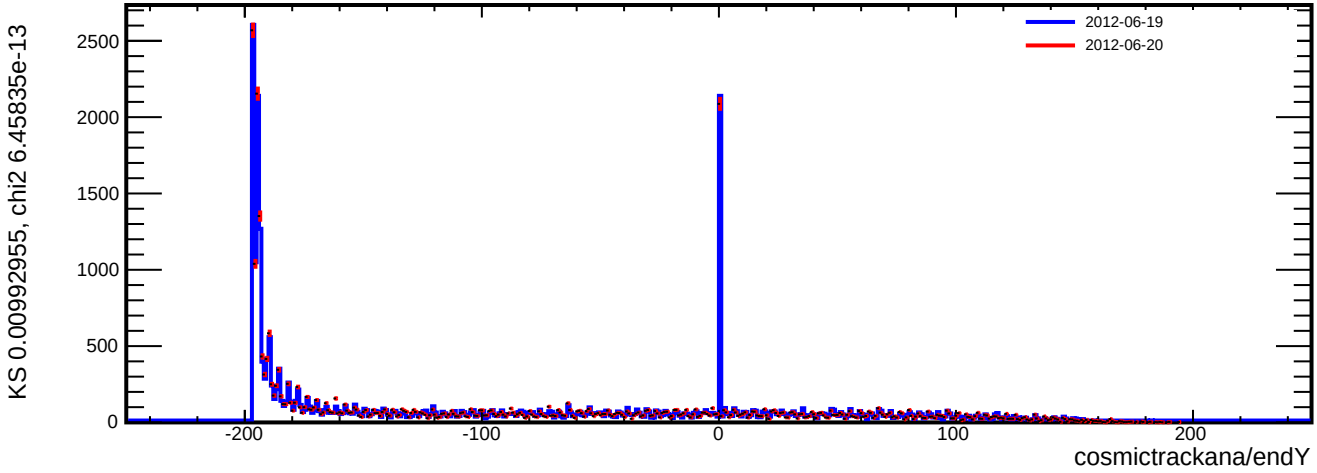

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0
-0.2
-1
-0.5
0
0.5
1
CosmicAna/fMuonCosQ

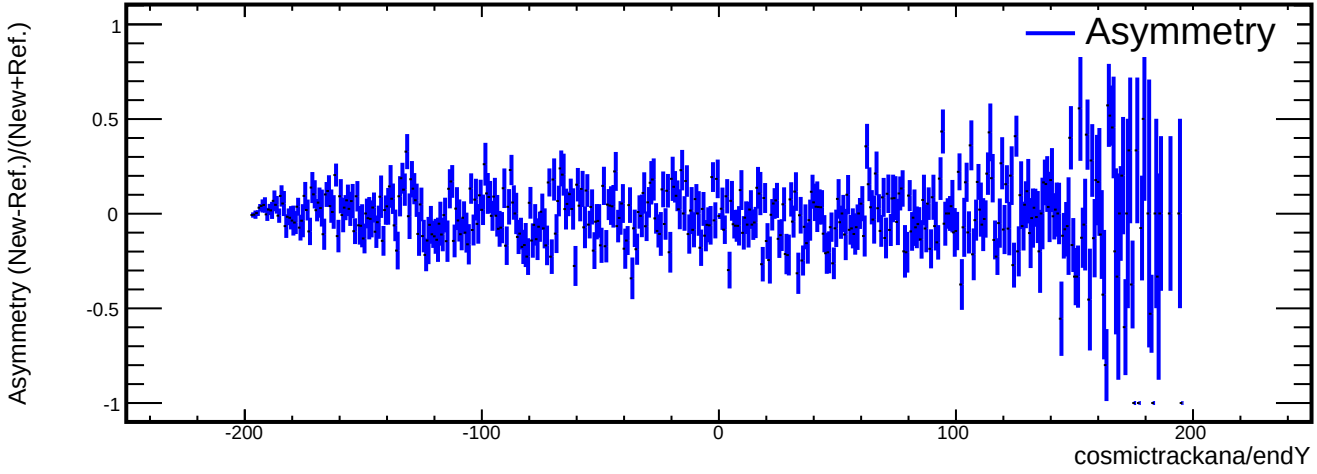

KS 0.369009, chi2 7.46489e-70
2012-06-19
2012-06-20
5000
4000
3000
2000
1000
0
0
20
40
60
80
100
CosmicAna/fMuonEnergy

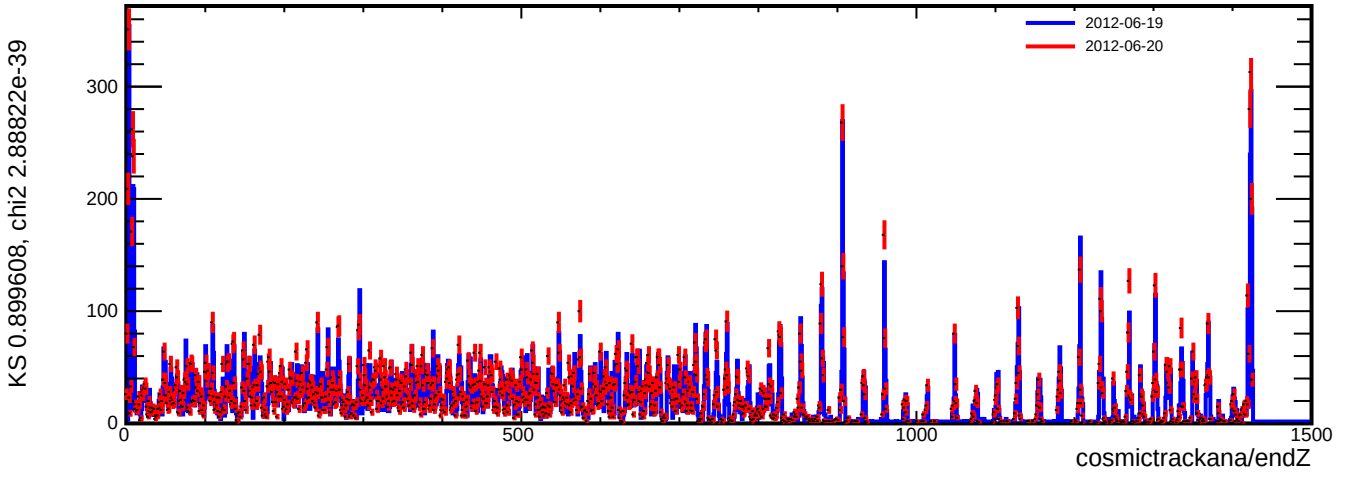

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
20
40
60
80
100
CosmicAna/fMuonEnergy

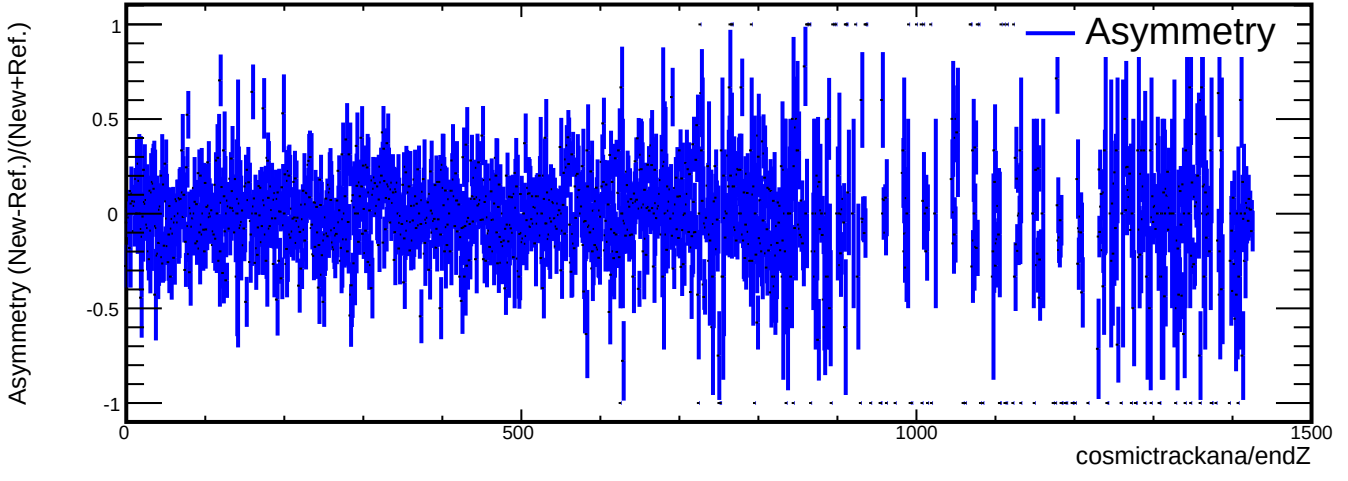

KS 0.821828, chi2 1.58312e-23
2012-06-19
2012-06-20
1000
800
600
400
200
0
-200
-100
0
100
200
cosmictrackana/endX

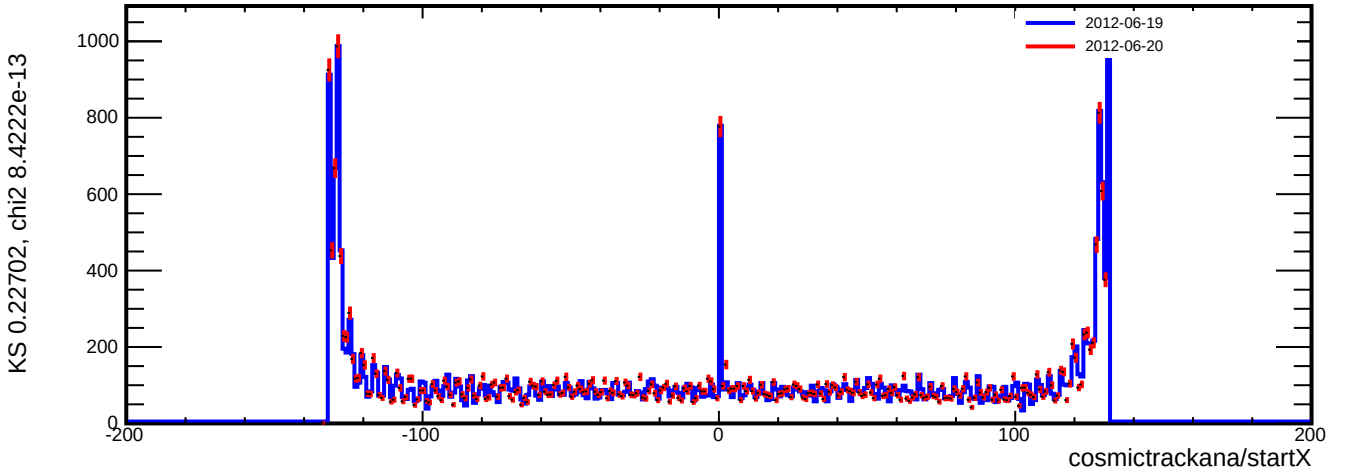

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/endX

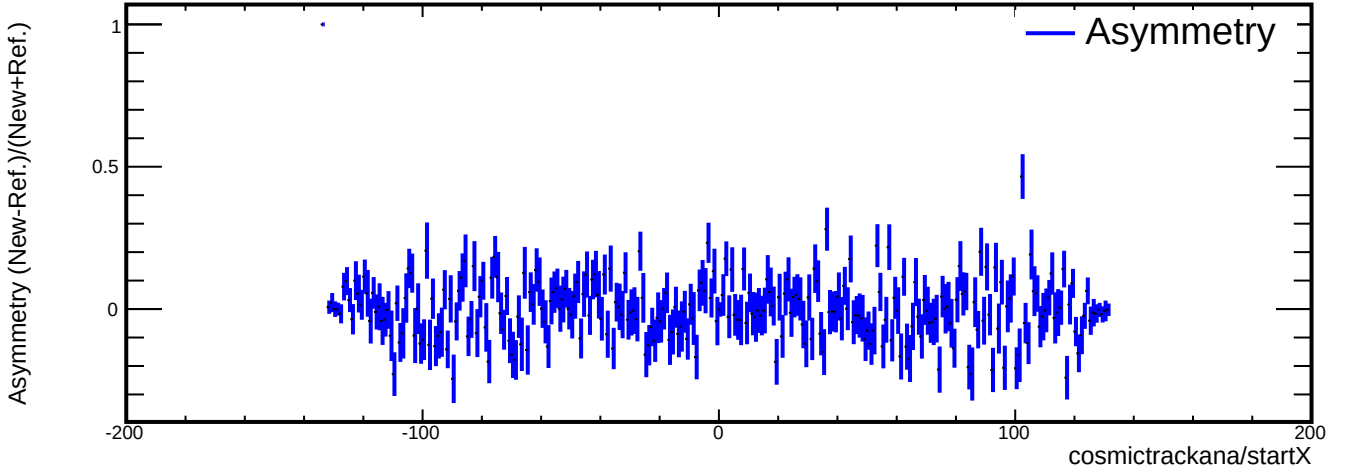

KS 0.00992955, chi2 6.45835e-13
2012-06-19
2012-06-20
2500
2000
1500
1000
500
0
-200
-100
0
100
200
cosmictrackana/endY

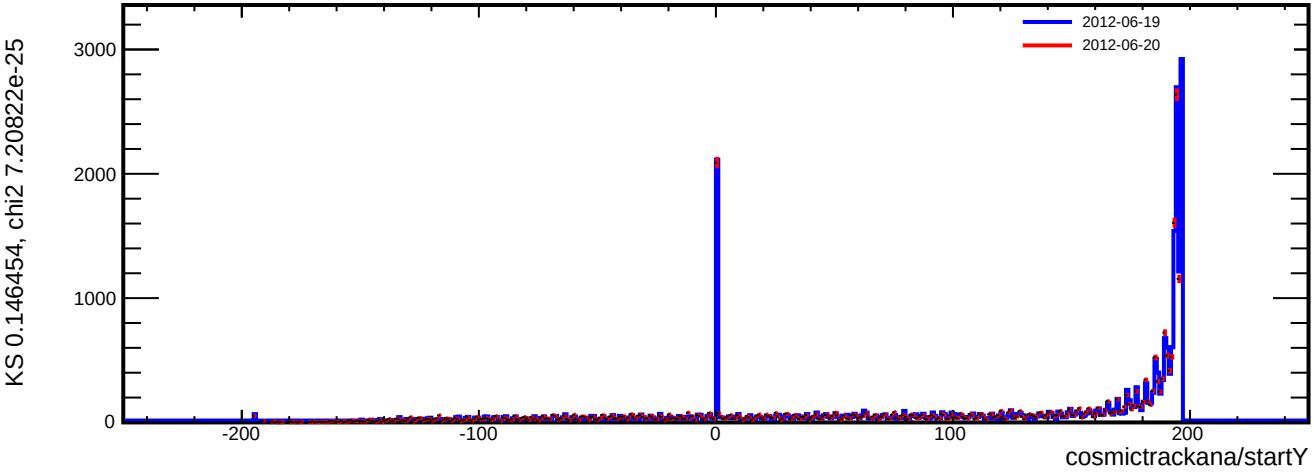

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/endY

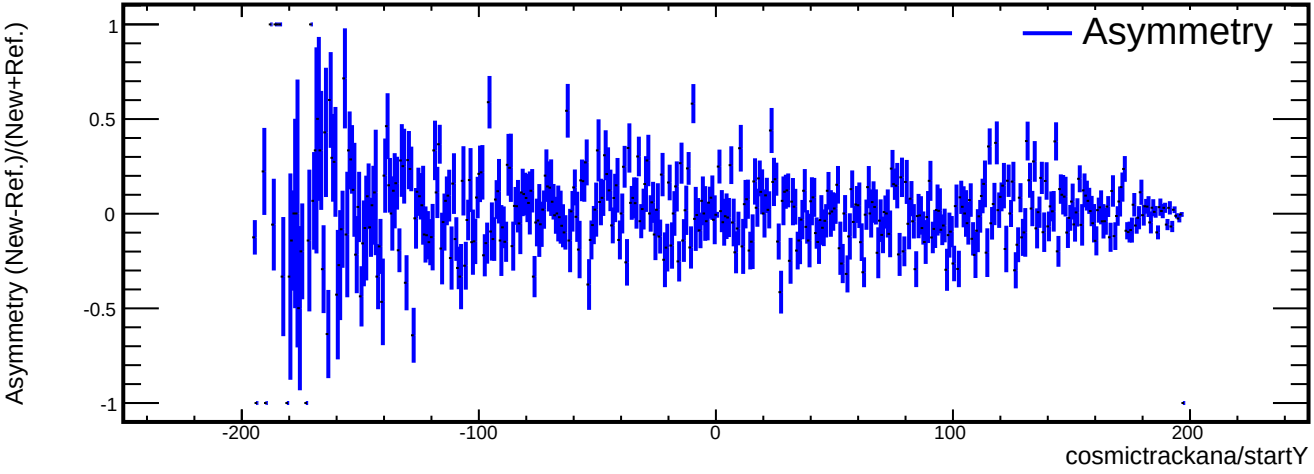

KS 0.899608, chi2 2.88822e-39
2012-06-19
2012-06-20
300
200
100
0
0
500
1000
1500
cosmictrackana/endZ

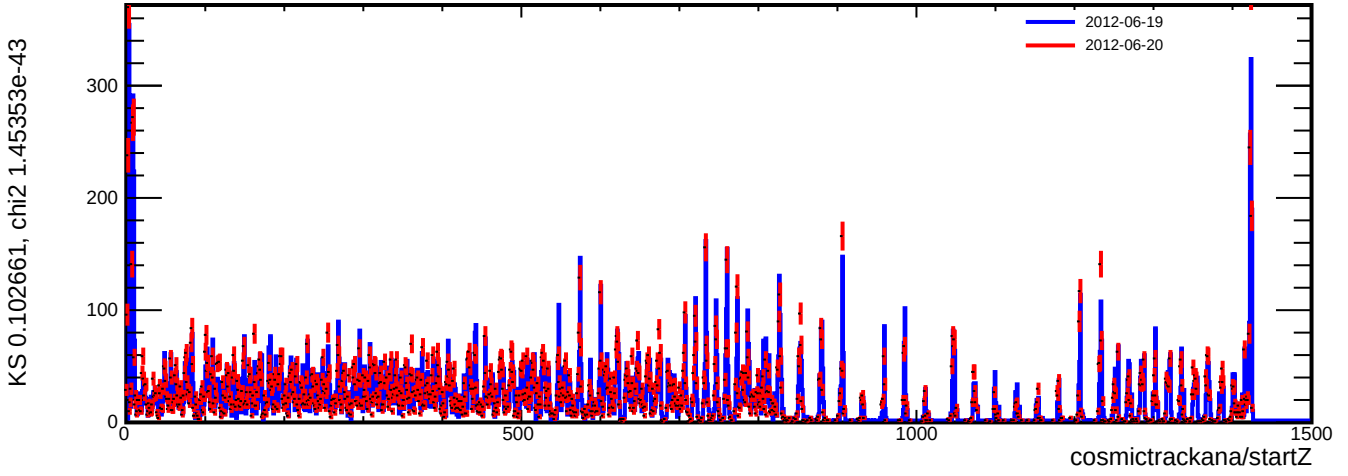

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/endZ

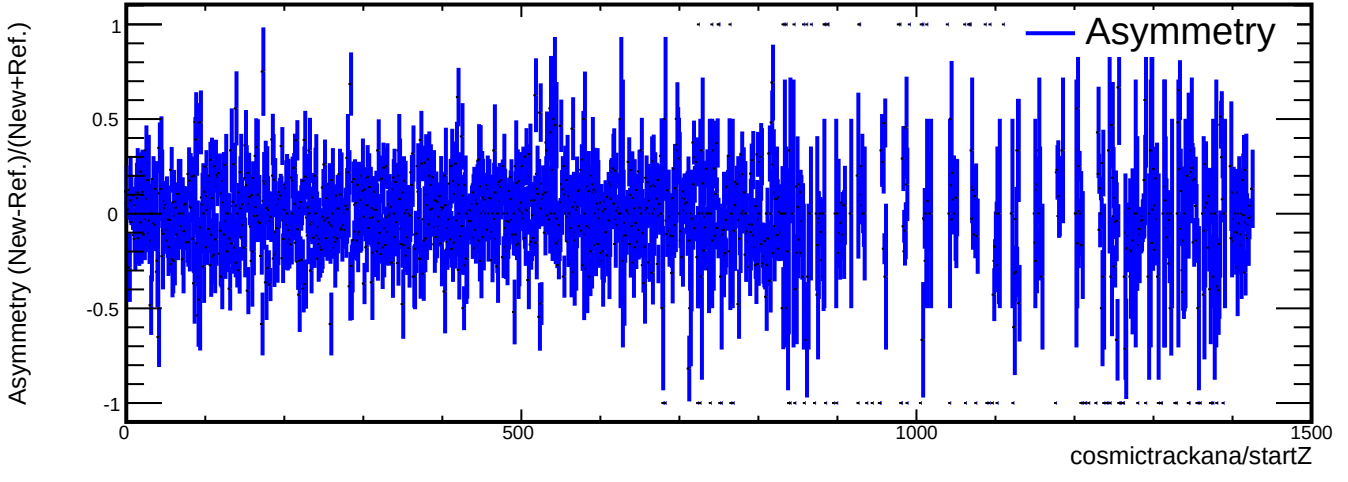

KS 0.22702, chi2 8.4222e-13
2012-06-19
2012-06-20
1000
800
600
400
200
0
-200
-100
0
100
200
cosmictrackana/startX

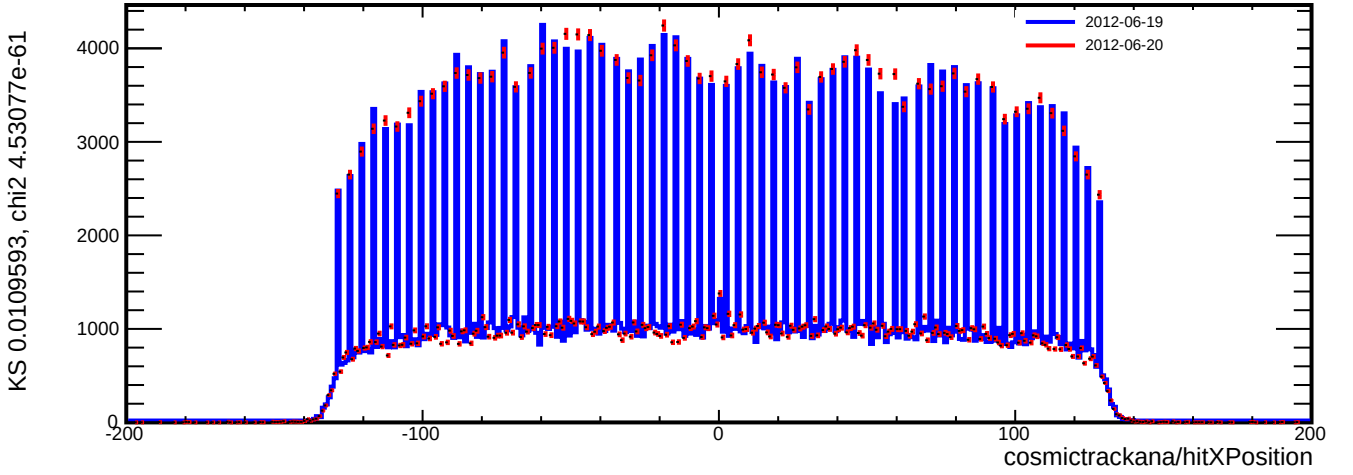

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-200
-100
0
100
200
cosmictrackana/startX

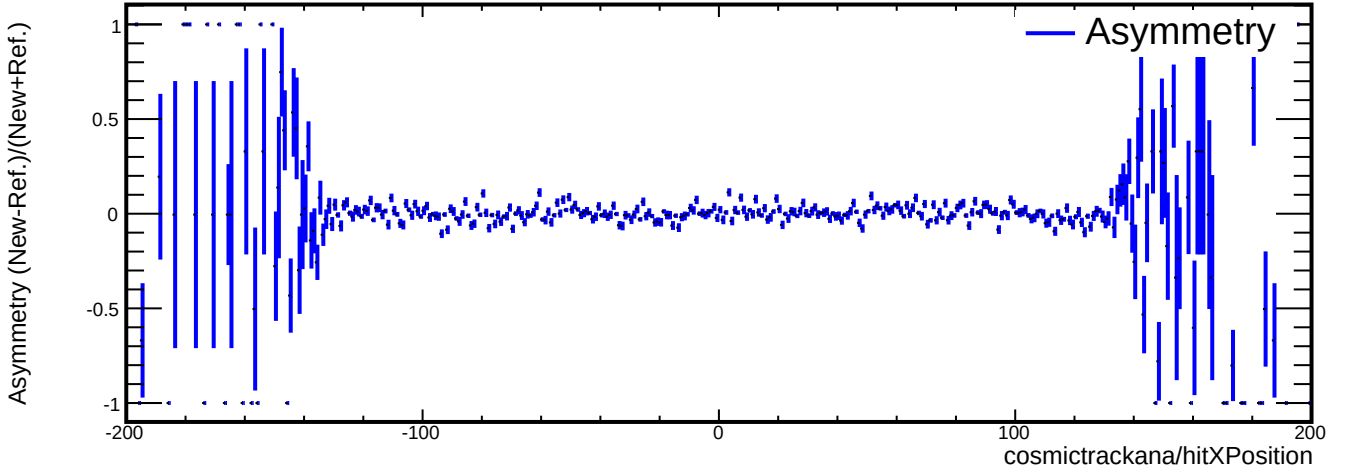

KS 0.146454, chi2 7.20822e-25
2012-06-19
2012-06-20
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/startY

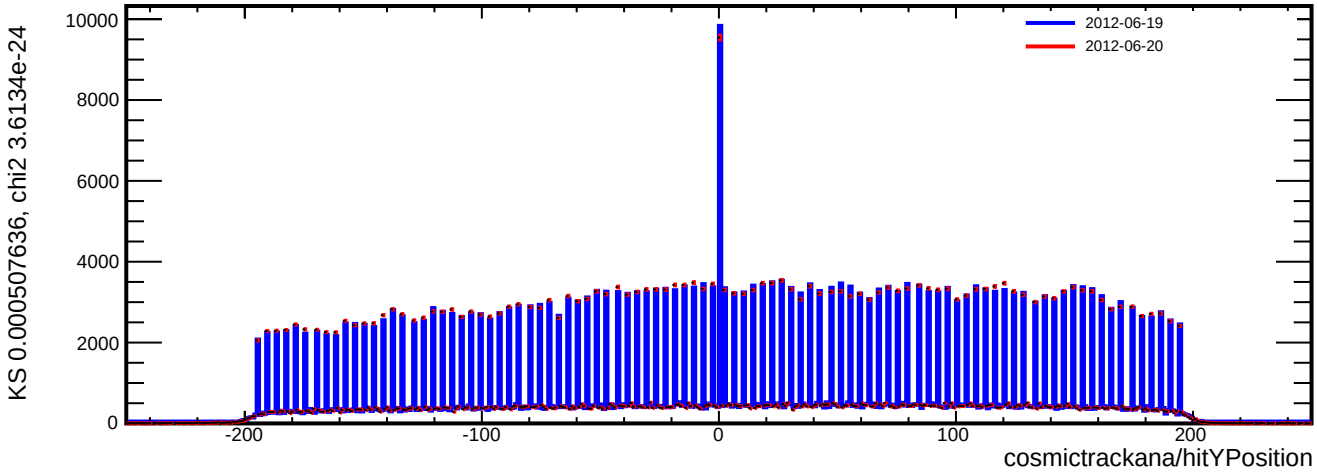

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/startY

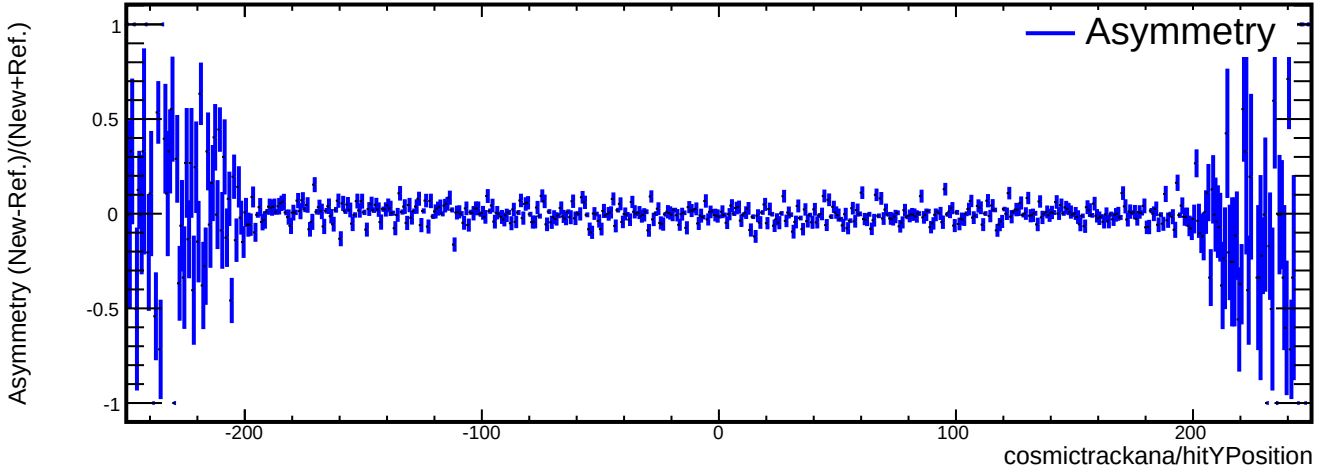

KS 0.102661, chi2 1.45353e-43
2012-06-19
2012-06-20
300
200
100
0
0
500
1000
1500
cosmictrackana/startZ

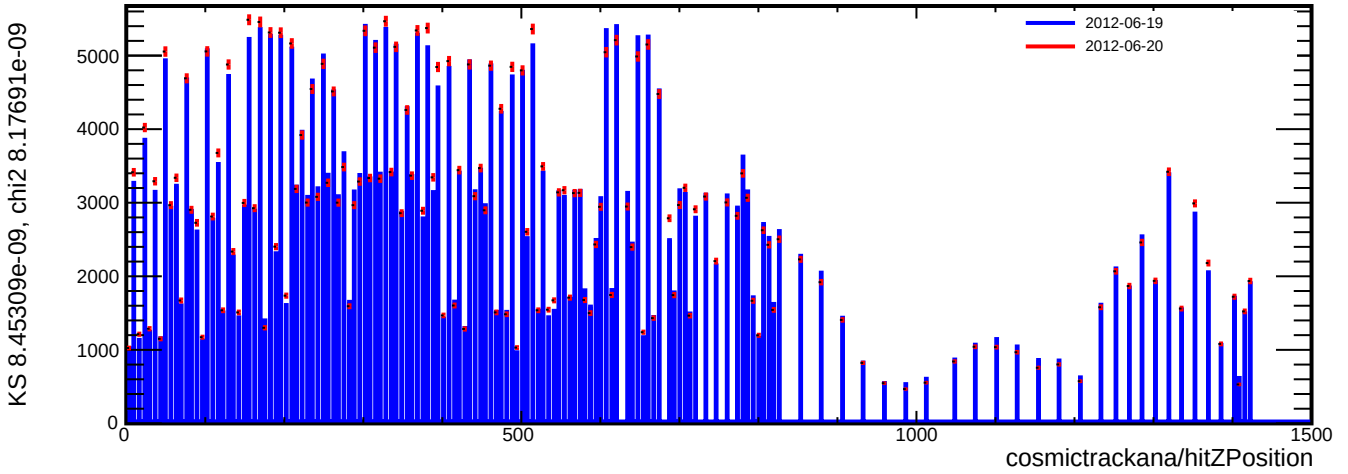

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/startZ

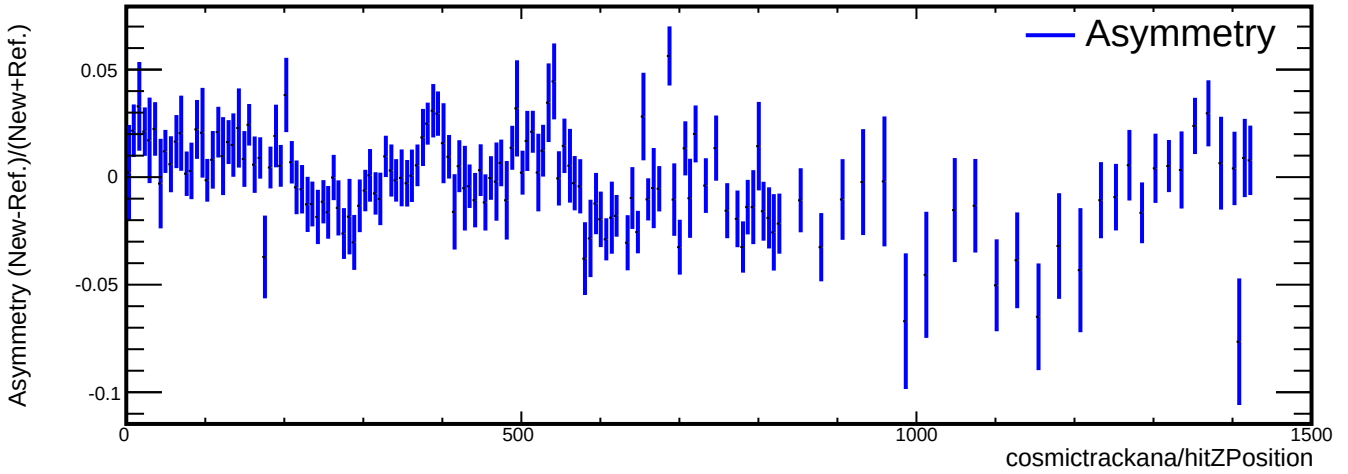

KS 0.0109593, chi2 4.53077e-61
2012-06-19
2012-06-20
4000
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/hitXPosition

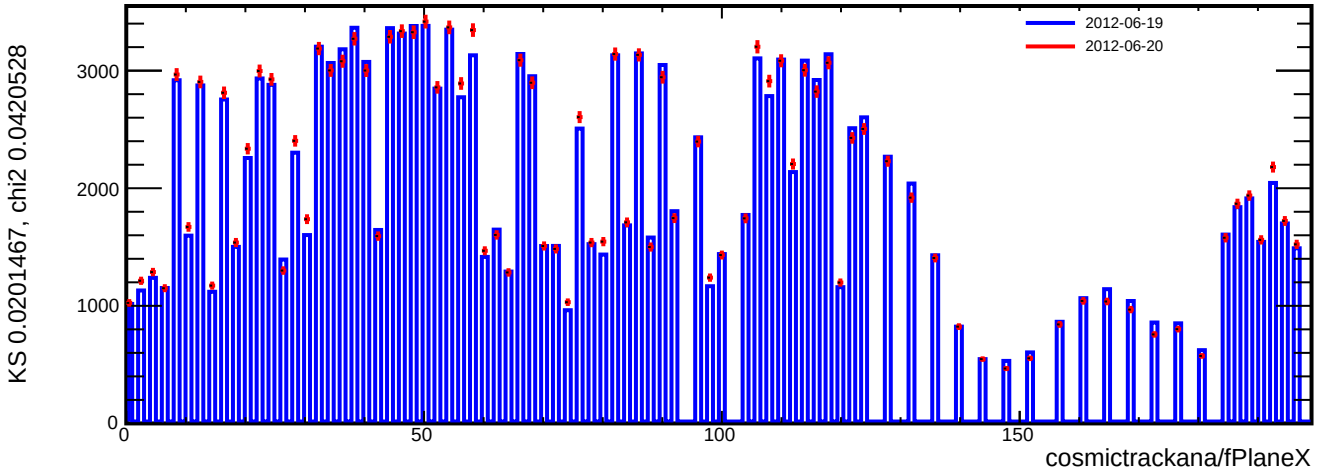

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitXPosition

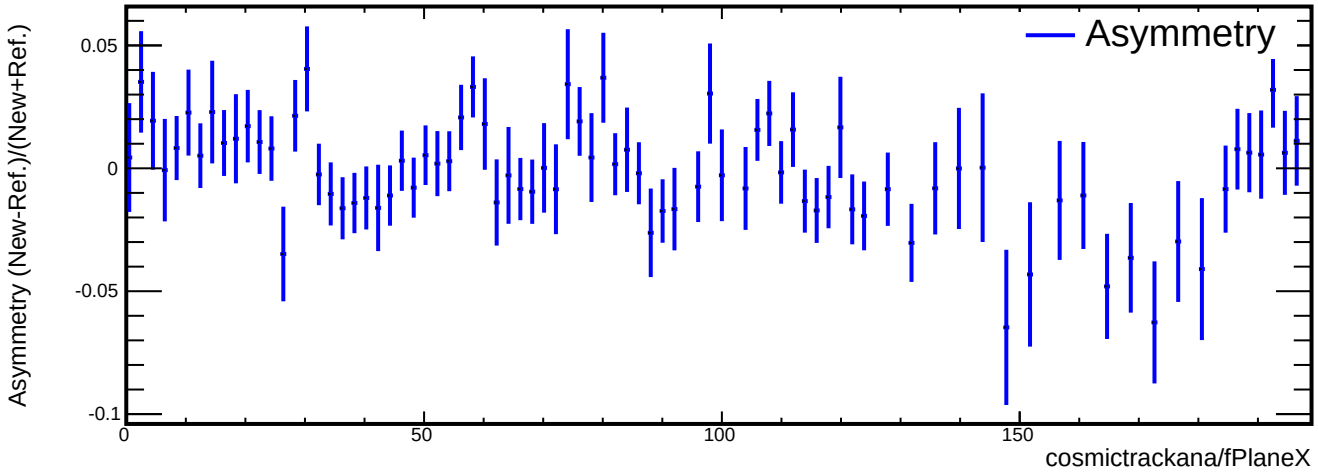

KS 0.000507636, chi2 3.6134e-24
10000
8000
6000
4000
2000
0
-200
-100
0
100
200
cosmictrackana/hitYPosition
2012-06-19
2012-06-20

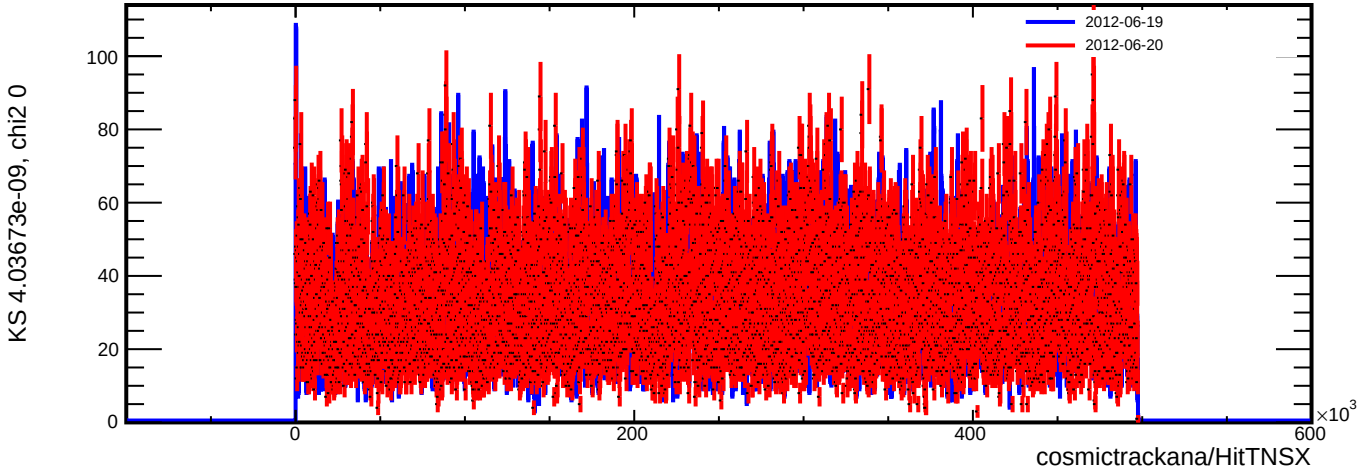

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitYPosition
Asymmetry


KS 8.45309e-09, chi2 8.17691e-09
2012-06-19
2012-06-20
0
1000
2000
3000
4000
5000
0
500
1000
1500
cosmictrackana/hitZPosition


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


KS 0.0201467, chi2 0.0420528
2012-06-19
2012-06-20
0
1000
2000
3000
0
50
100
150
cosmictrackana/fPlaneX


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


2012-06-19
2012-06-20
KS 4.03673e-09, chi2 0
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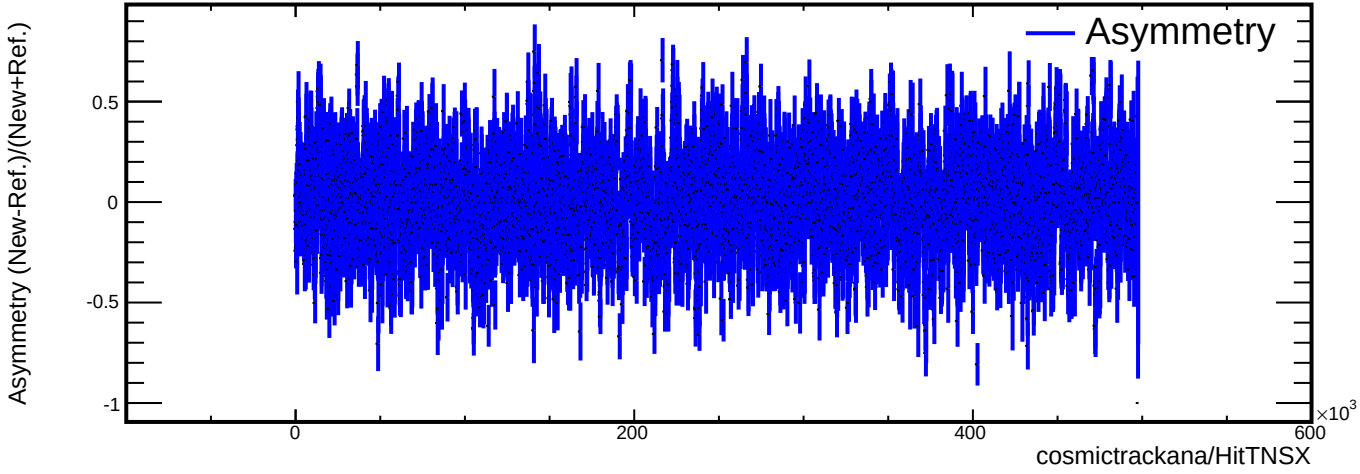
80
60
40
20
0
0
200
400
600
×10^3
cosmictrackana/HitTNSX


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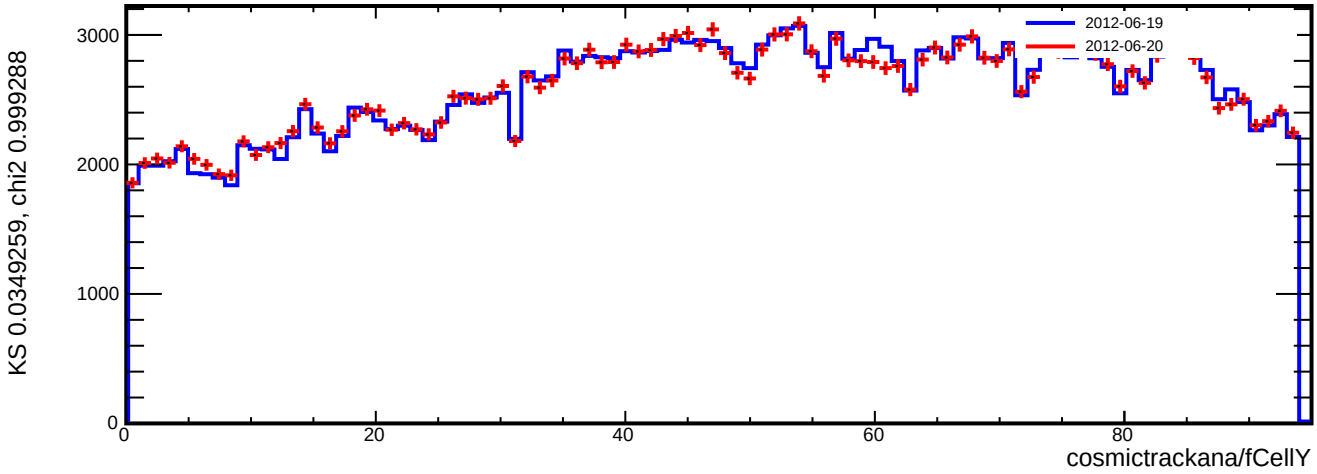
0
-0.5
-1
0
200
400
600
×10^3
cosmictrackana/HitTNSX


KS 0.0349259, chi2 0.999288
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2012-06-20
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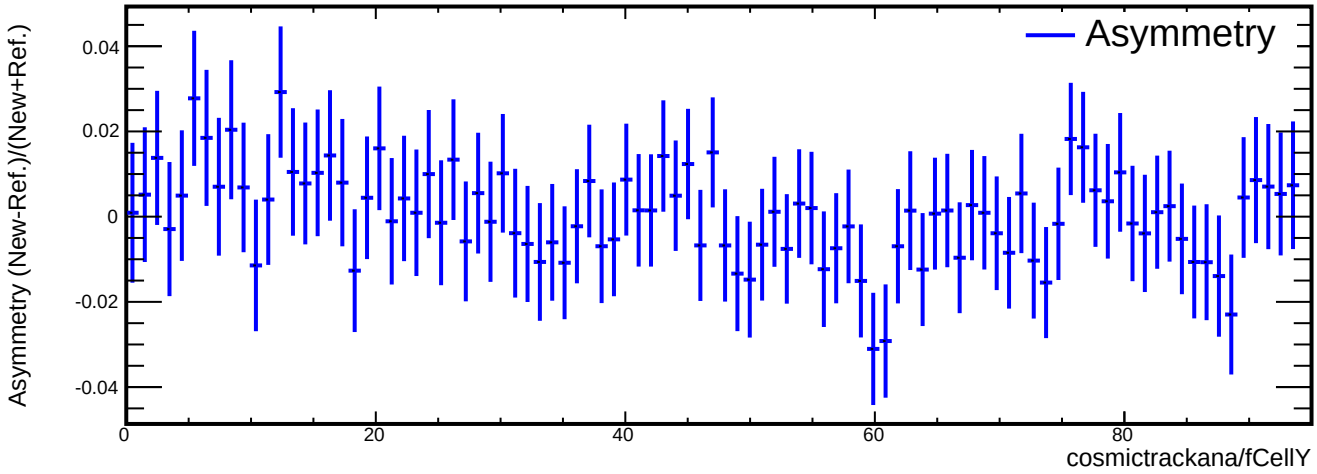
2000
1000
0
0
20
40
60
80
cosmictrackana/fCellY


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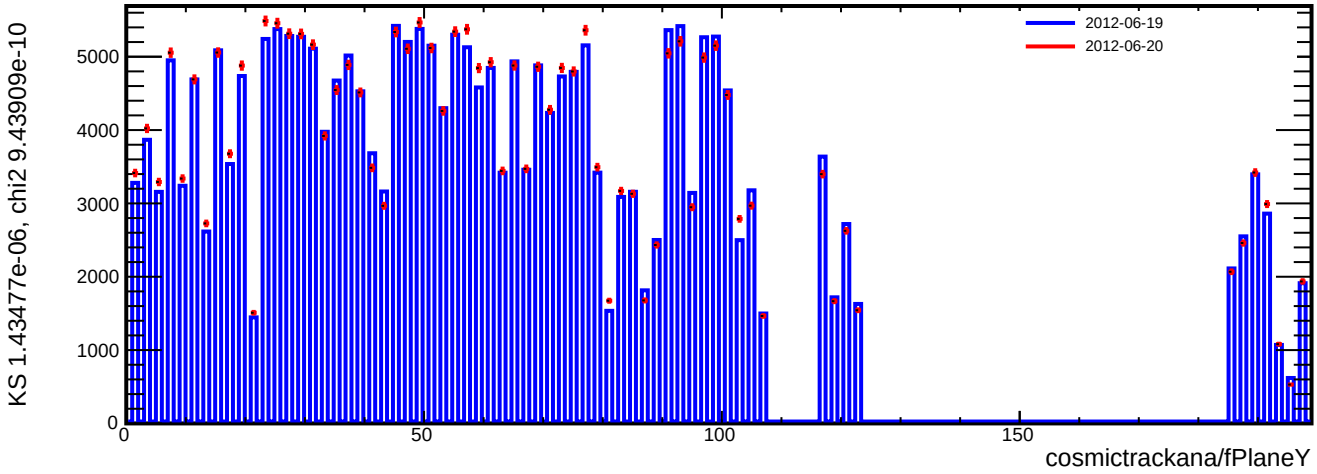
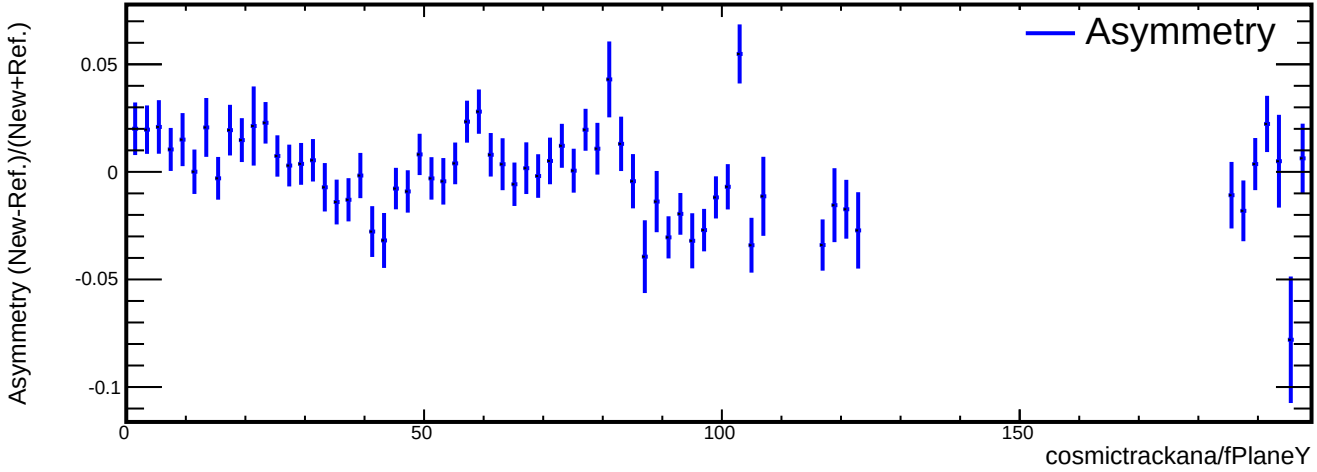
-0.04
0
20
40
60
80
cosmictrackana/fCellY


KS 1.43477e-06, chi2 9.43909e-10
2012-06-19
2012-06-20
0
1000
2000
3000
4000
5000
0
50
100
150
cosmictrackana/fPlaneY


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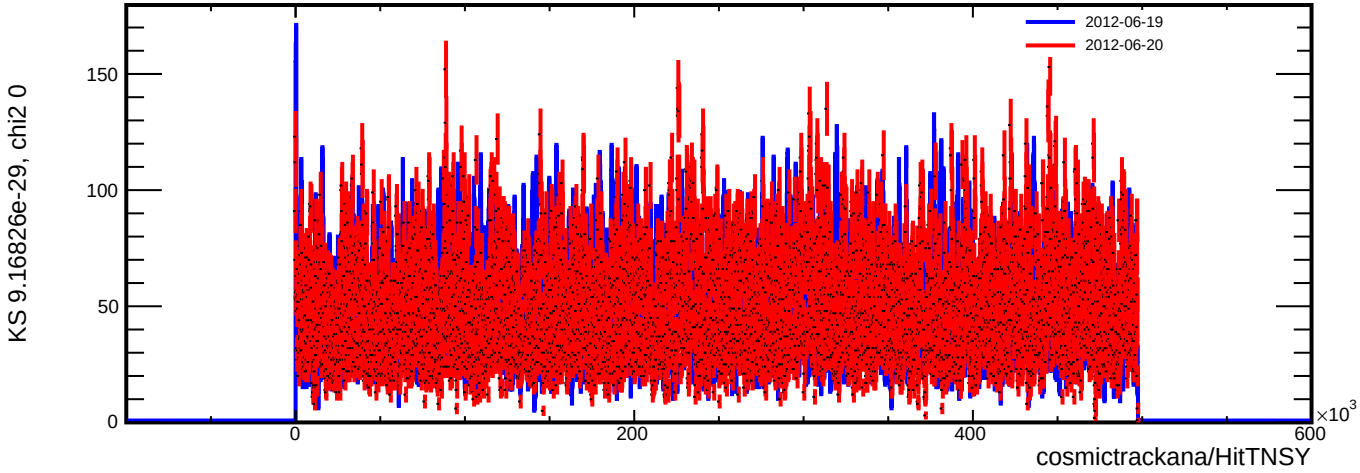
0
-0.05
-0.1
0
50
100
150
cosmictrackana/fPlaneY


2012-06-19
2012-06-20
KS 9.16826e-29, chi2 0
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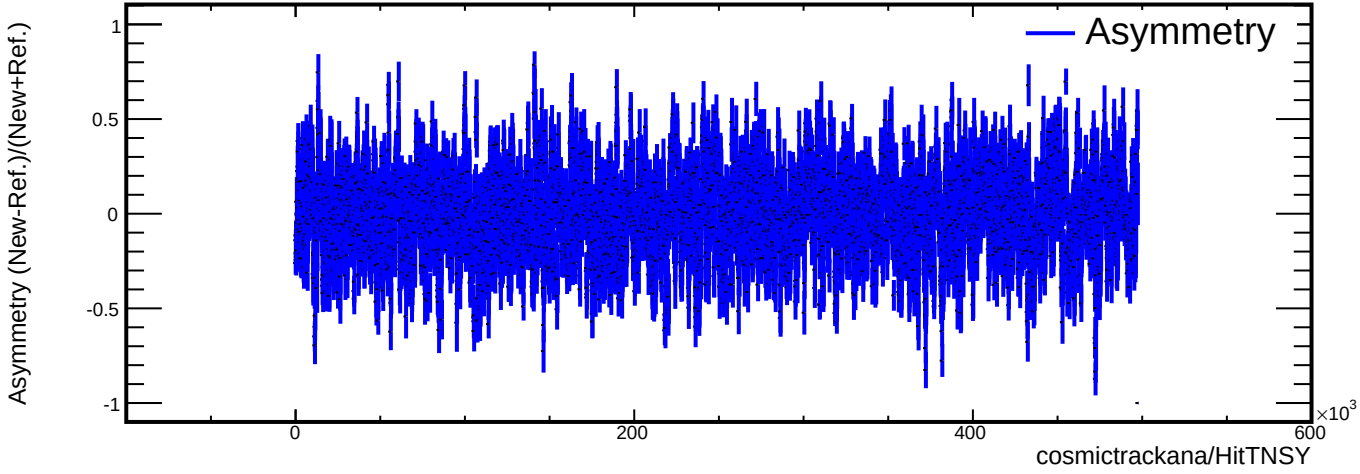
0
0
200
400
600
×10^3
cosmictrackana/HitTNSY


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