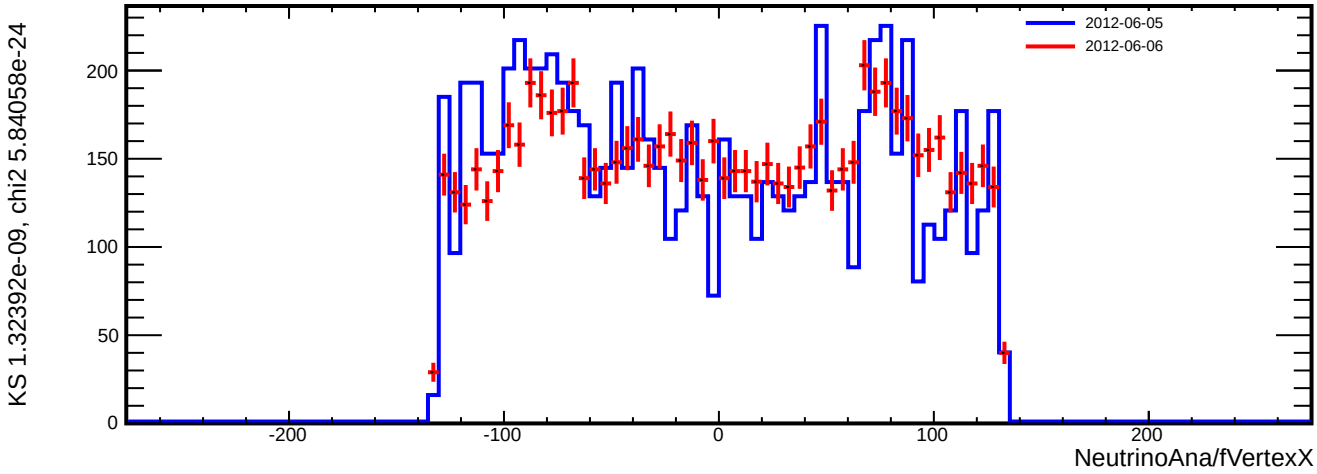
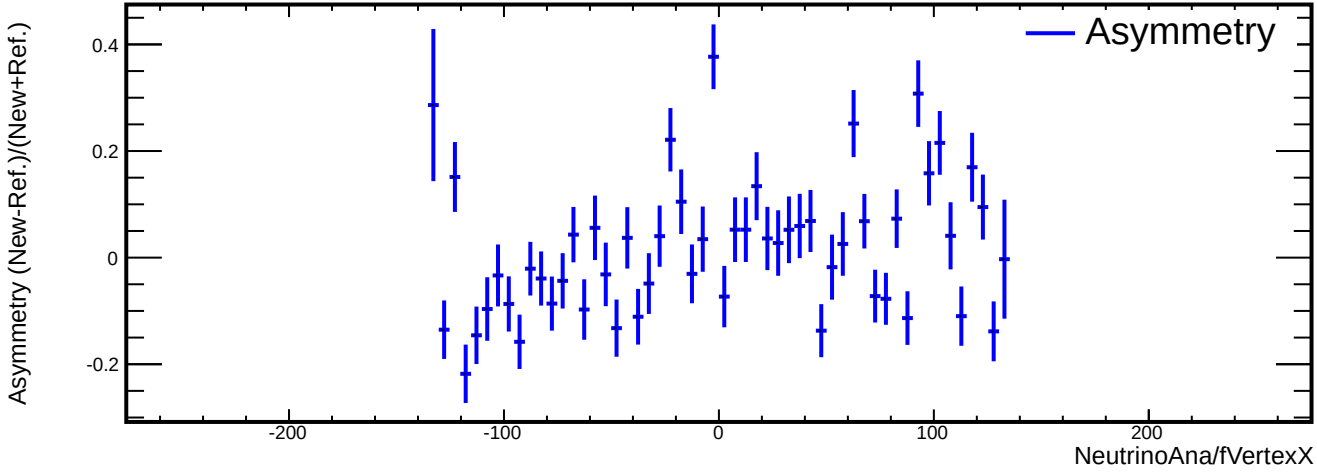
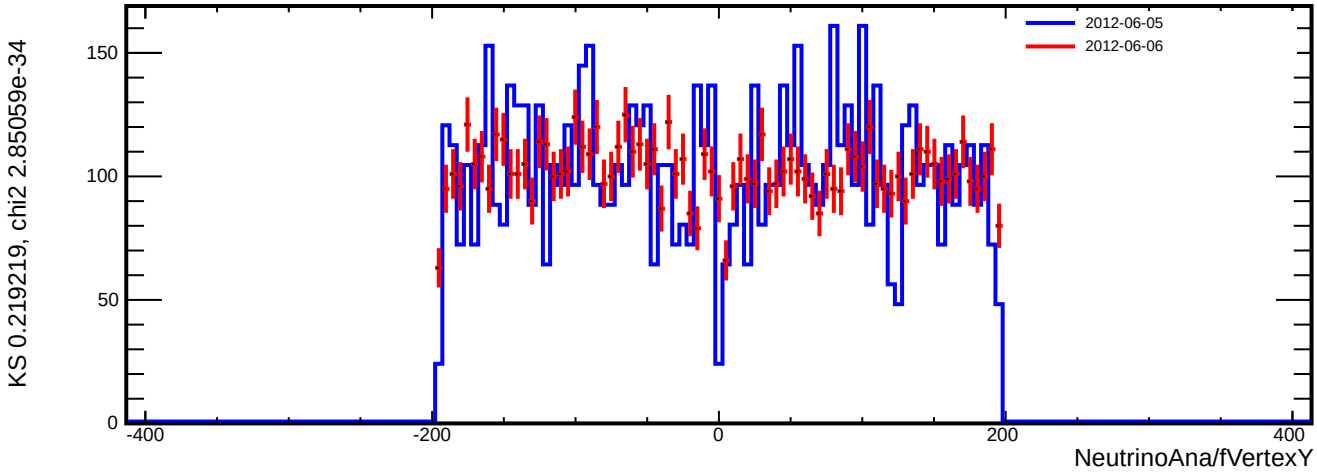
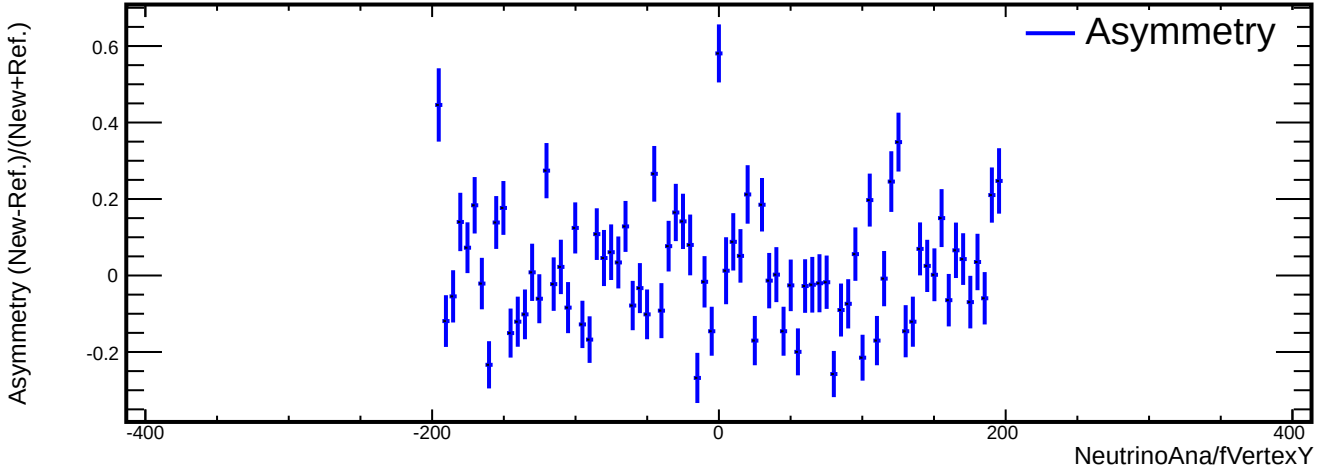
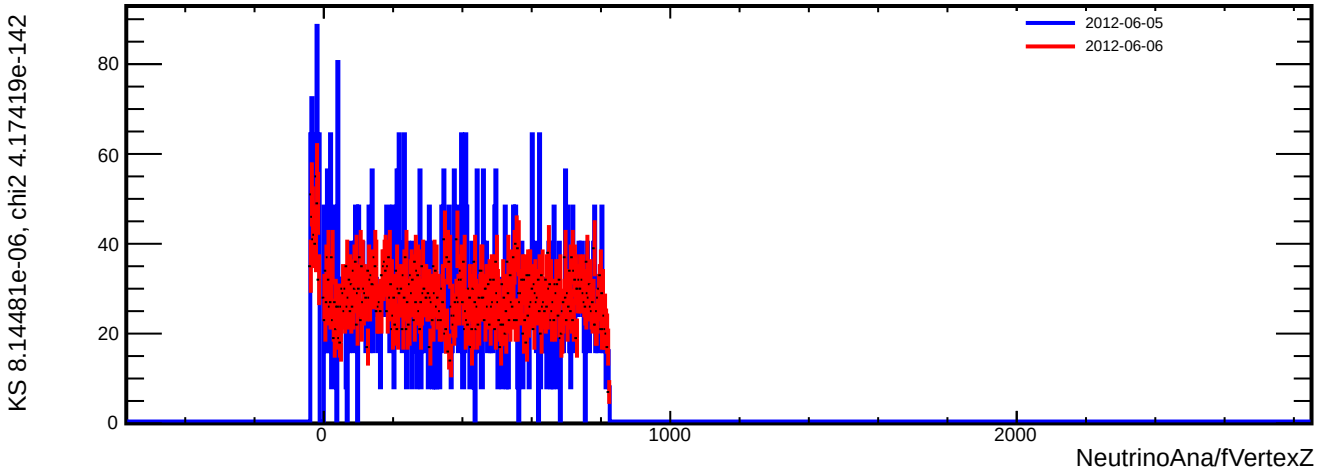
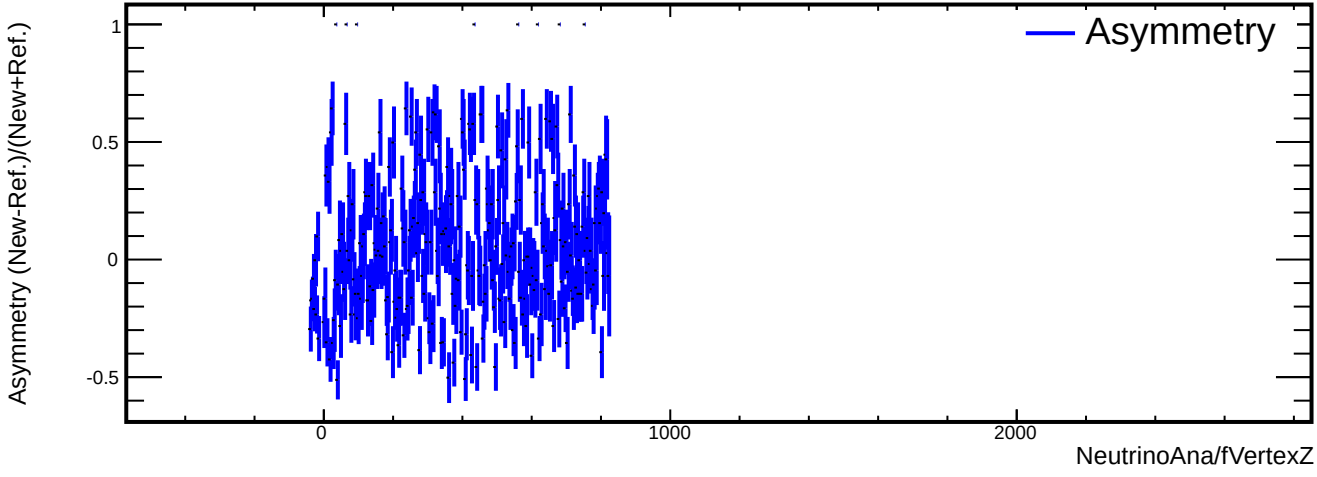

KS 1.32392e-09, chi2 5.84058e-24
2012-06-05
2012-06-06
0
50
100
150
200
-200
-100
0
100
200
NeutrinoAna/fVertexX

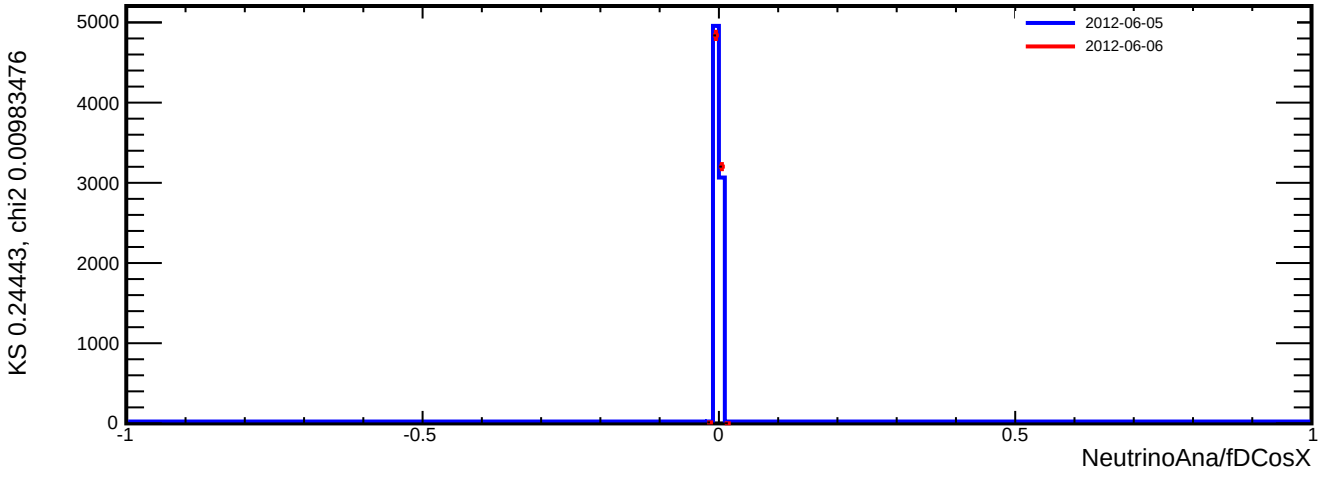

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.4
0.2
0
-0.2
-200
-100
0
100
200
NeutrinoAna/fVertexX

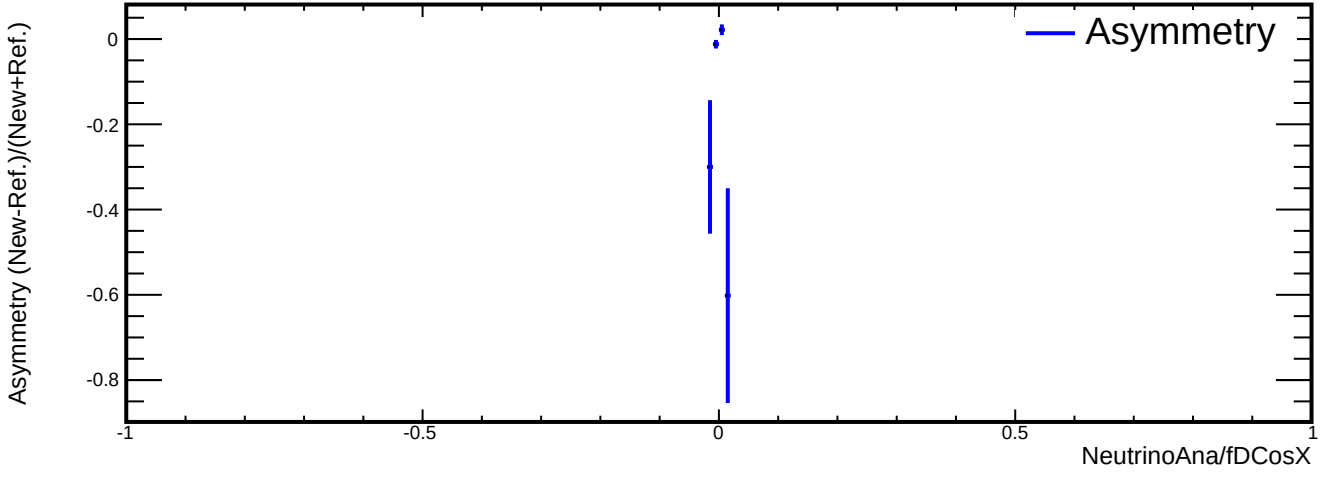

KS 0.219219, chi2 2.85059e-34
2012-06-05
2012-06-06
150
100
50
0
-400
-200
0
200
400
NeutrinoAna/fVertexY

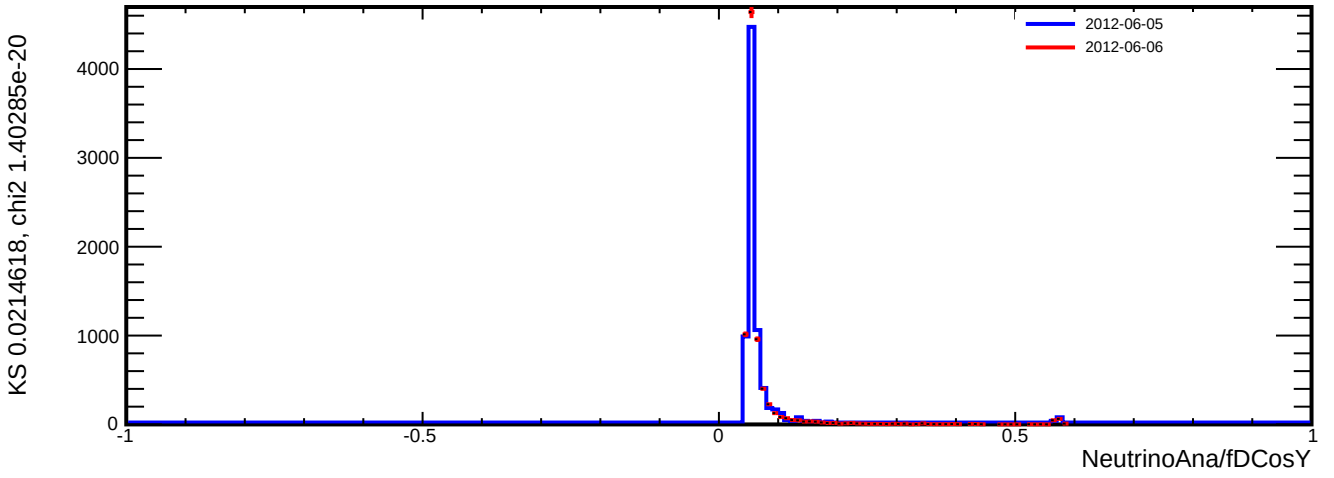

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.6
0.4
0.2
0
-0.2
-400
-200
0
200
400
NeutrinoAna/fVertexY

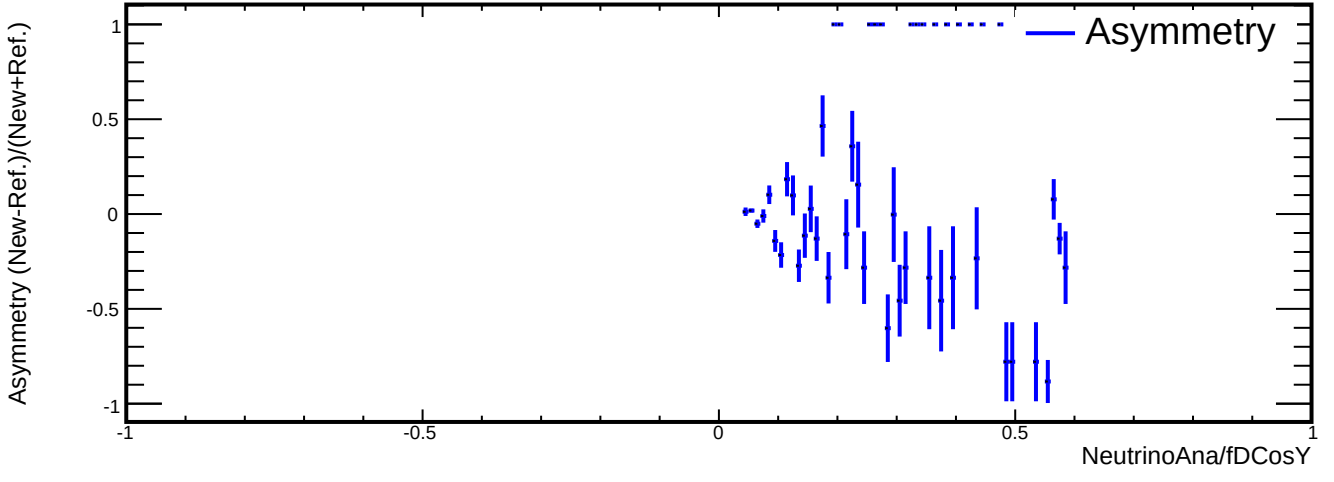

KS 8.14481e-06, chi2 4.17419e-142
2012-06-05
2012-06-06
80
60
40
20
0
0
1000
2000
NeutrinoAna/fVertexZ

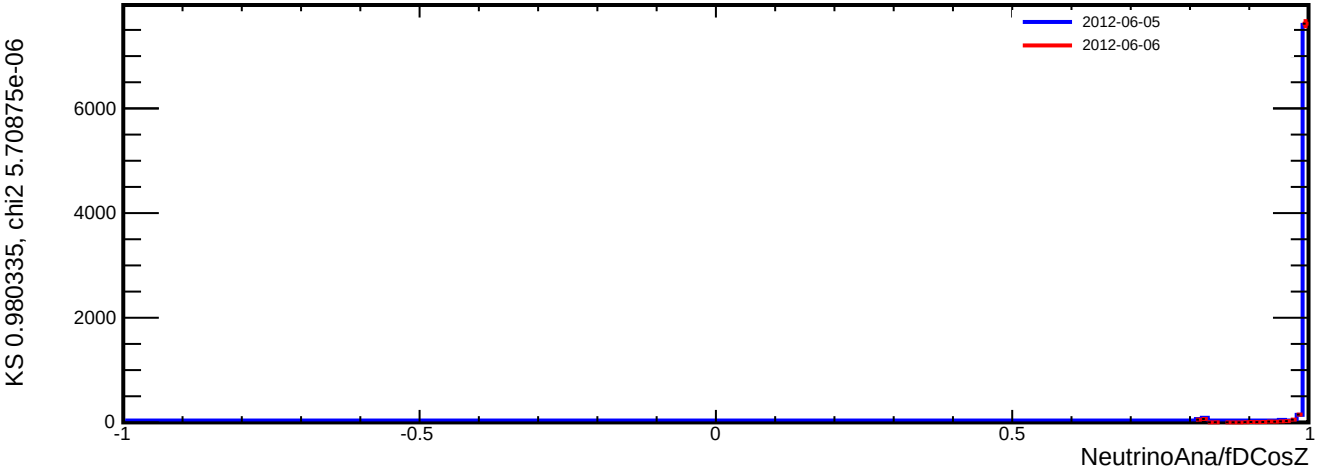

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
0
1000
2000
NeutrinoAna/fVertexZ

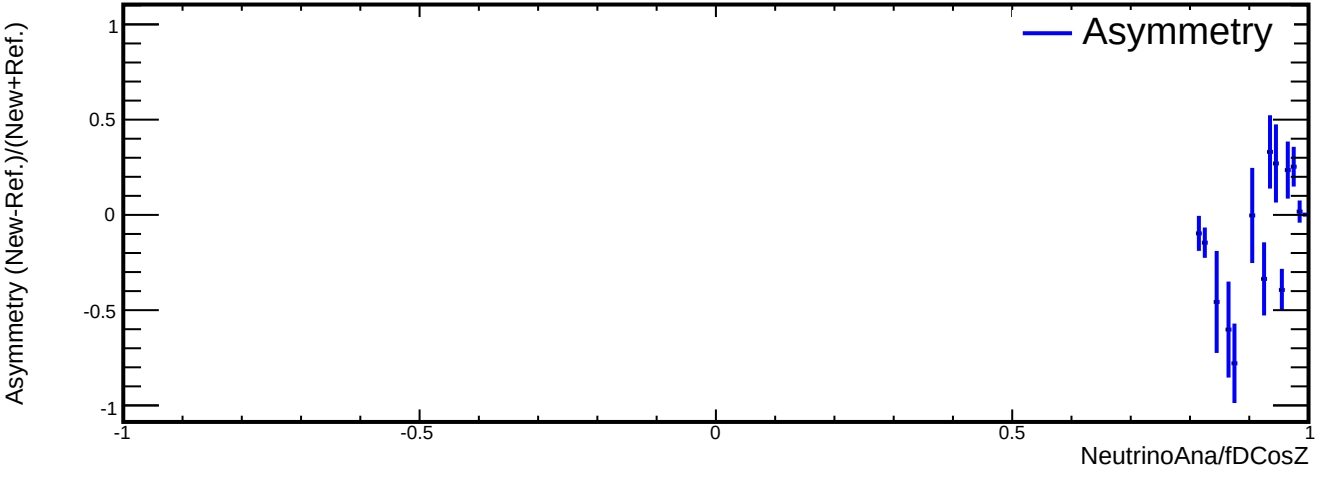

KS 0.24443, chi2 0.00983476
5000
4000
3000
2000
1000
0
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosX
2012-06-05
2012-06-06

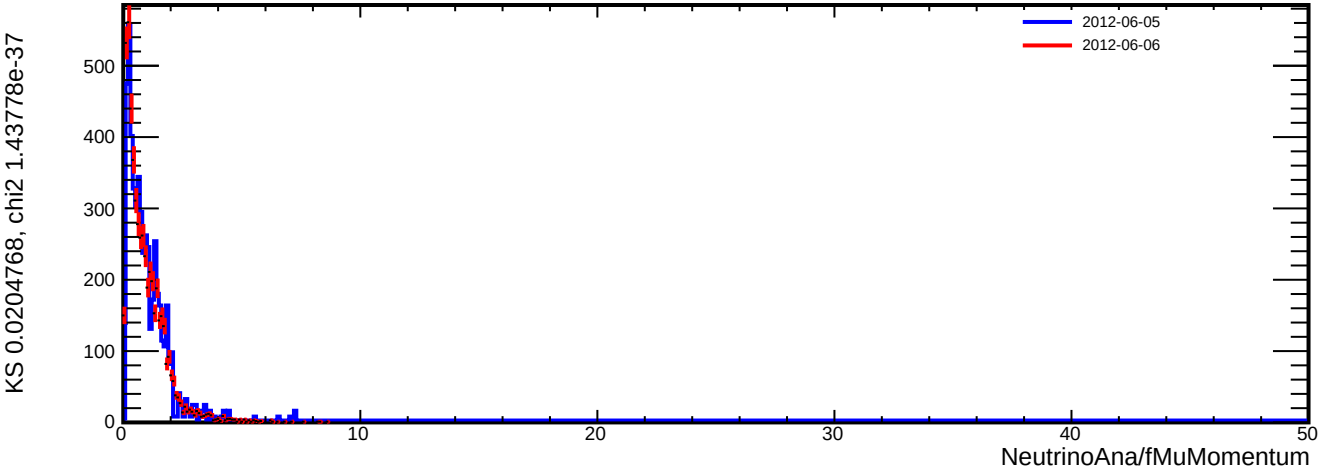

Asymmetry (New-Ref.)/(New+Ref.)
0
-0.2
-0.4
-0.6
-0.8
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosX
Asymmetry

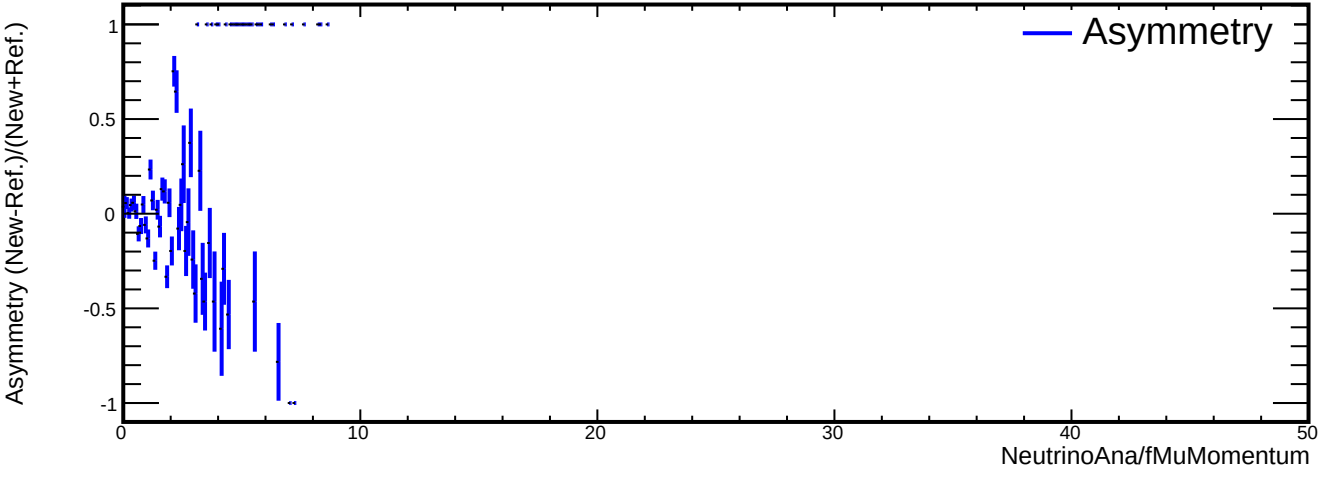

KS 0.0214618, chi2 1.40285e-20
2012-06-05
2012-06-06
4000
3000
2000
1000
0
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosY

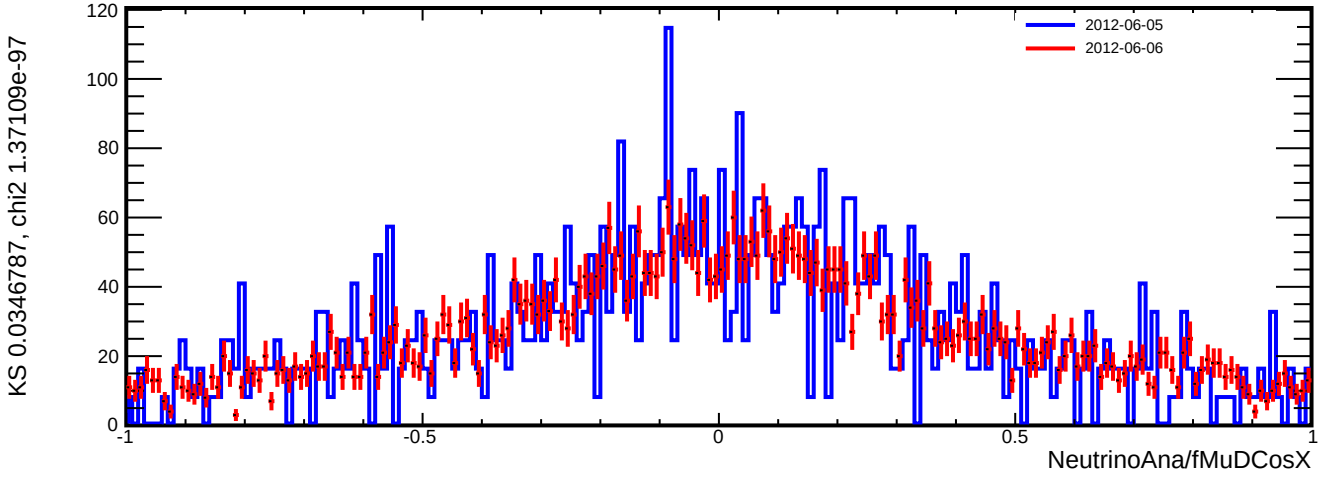

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosY

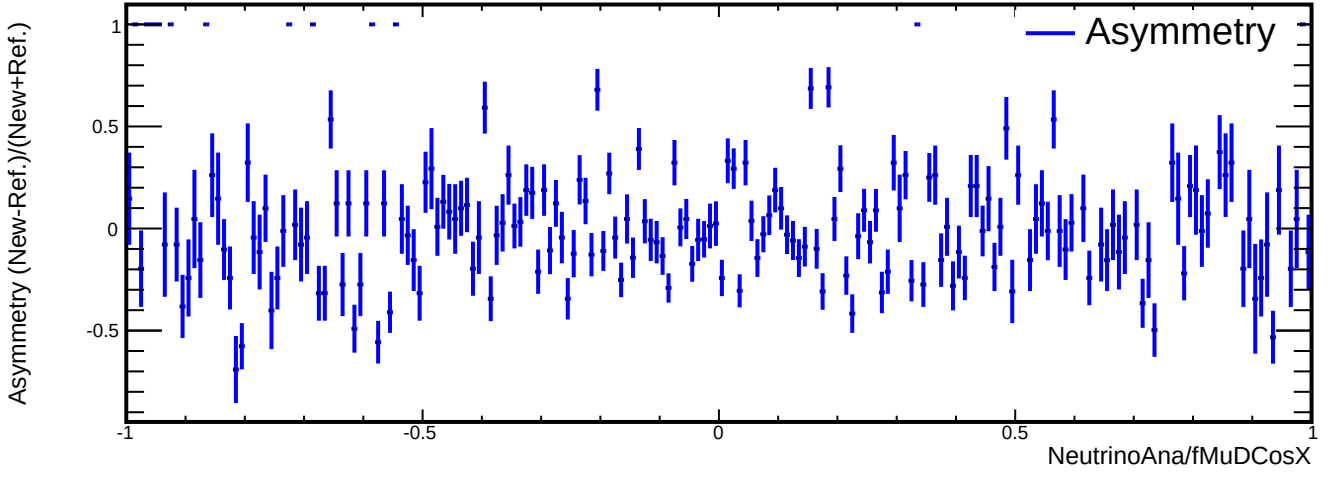

KS 0.980335, chi2 5.70875e-06
2012-06-05
2012-06-06
6000
4000
2000
0
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosZ

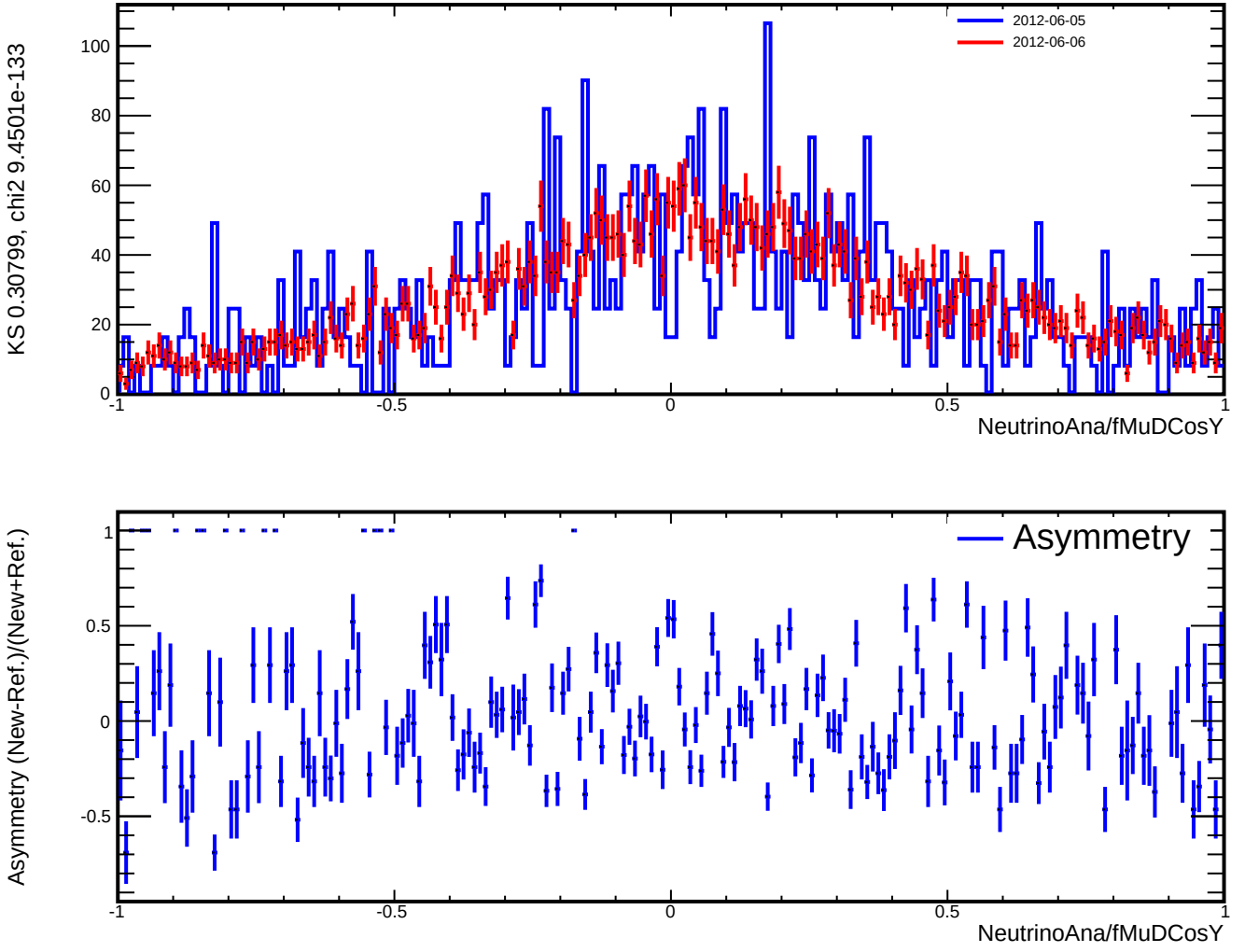

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fDCosZ

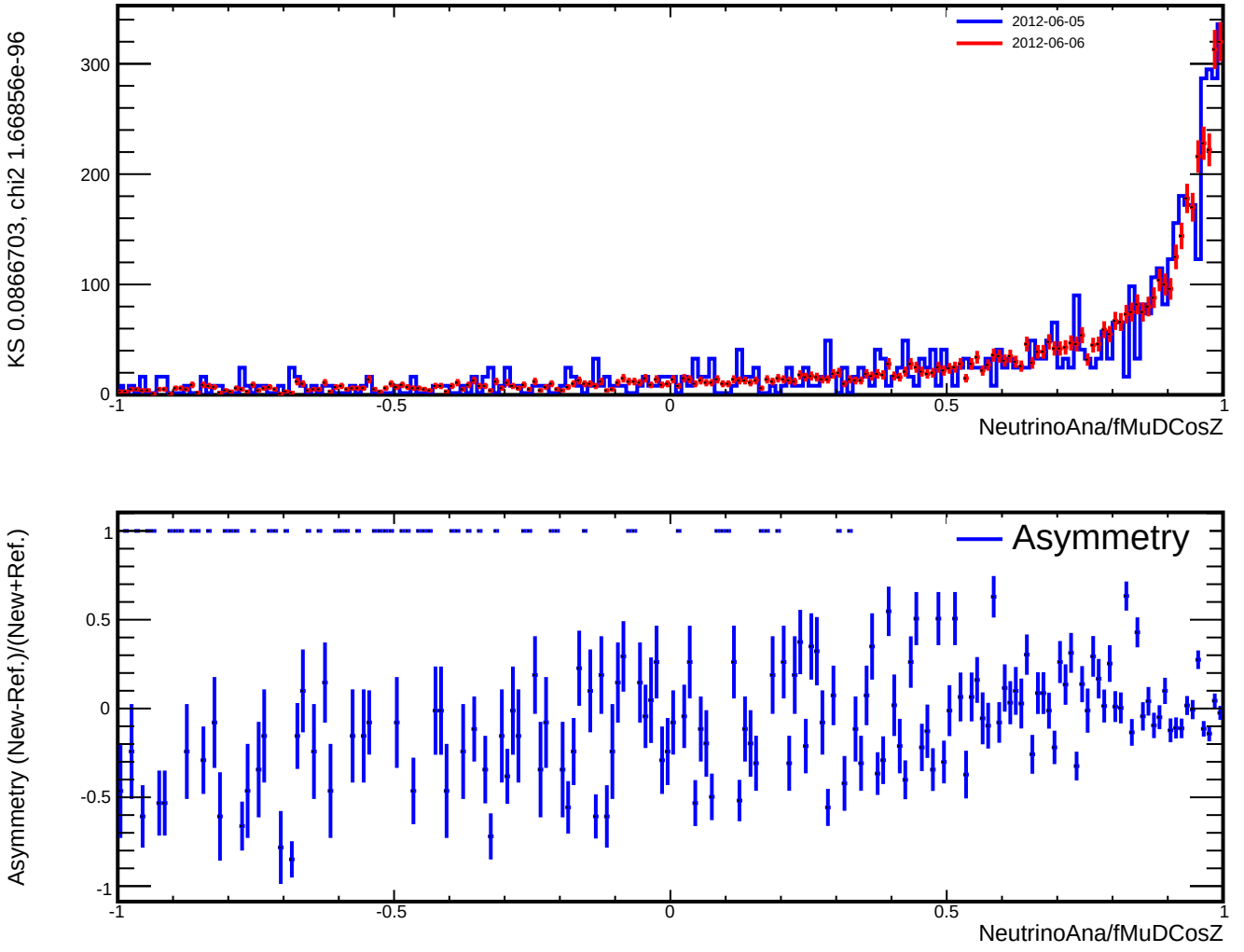

KS 0.0204768, chi2 1.43778e-37
2012-06-05
2012-06-06
0
100
200
300
400
500
0
10
20
30
40
50
NeutrinoAna/fMuMomentum

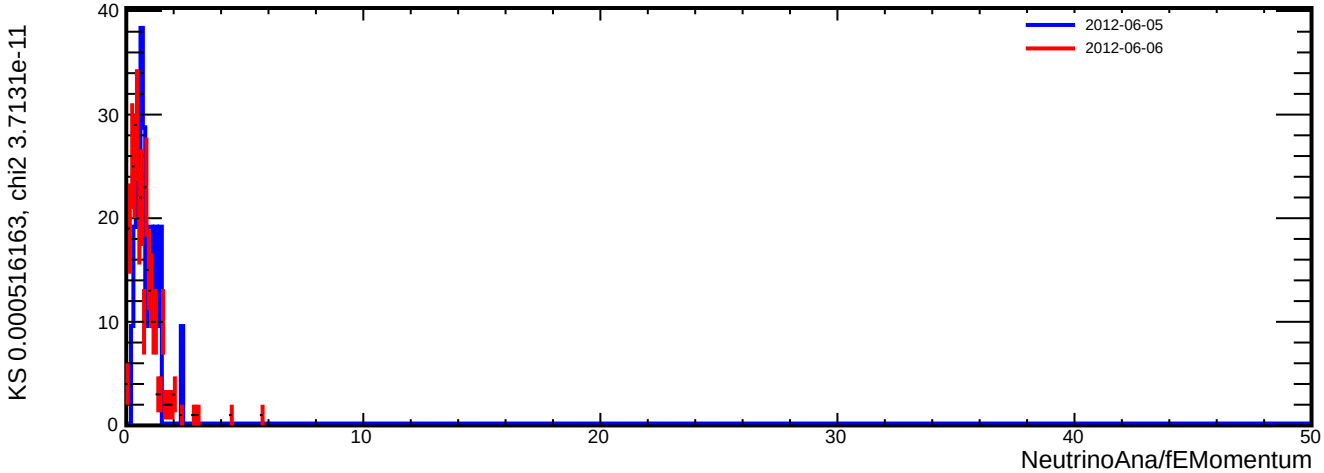

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
10
20
30
40
50
NeutrinoAna/fMuMomentum

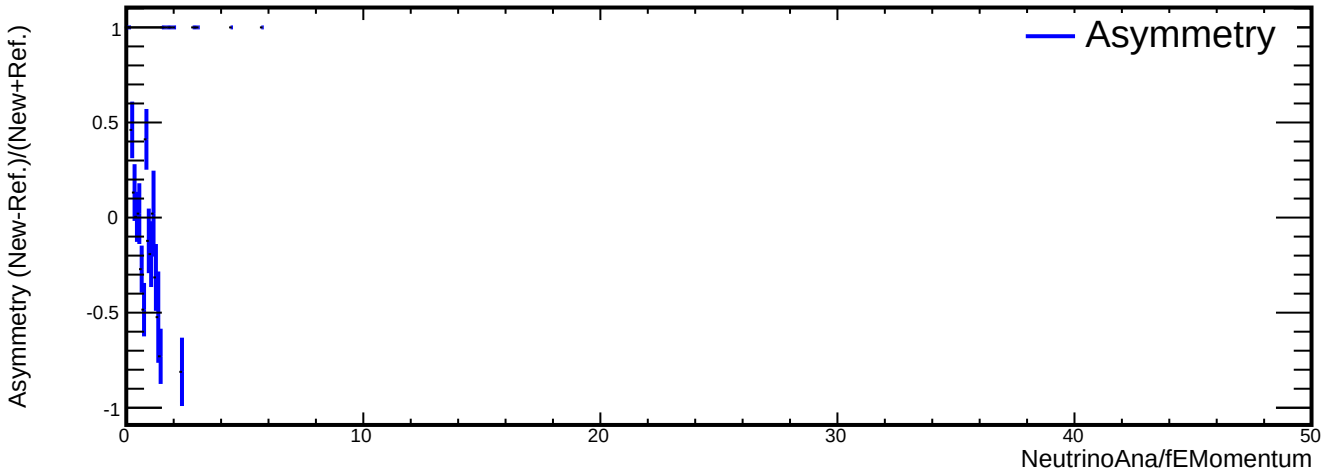

KS 0.0346787, chi2 1.37109e-97
2012-06-05
2012-06-06
NeutrinoAna/fMuDCosX

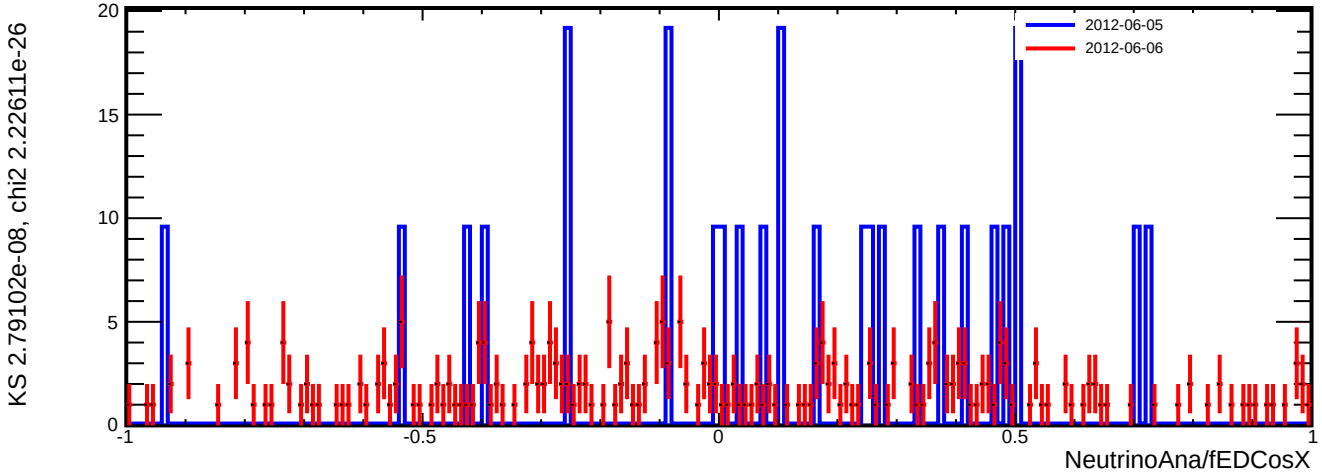

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fMuDCosX

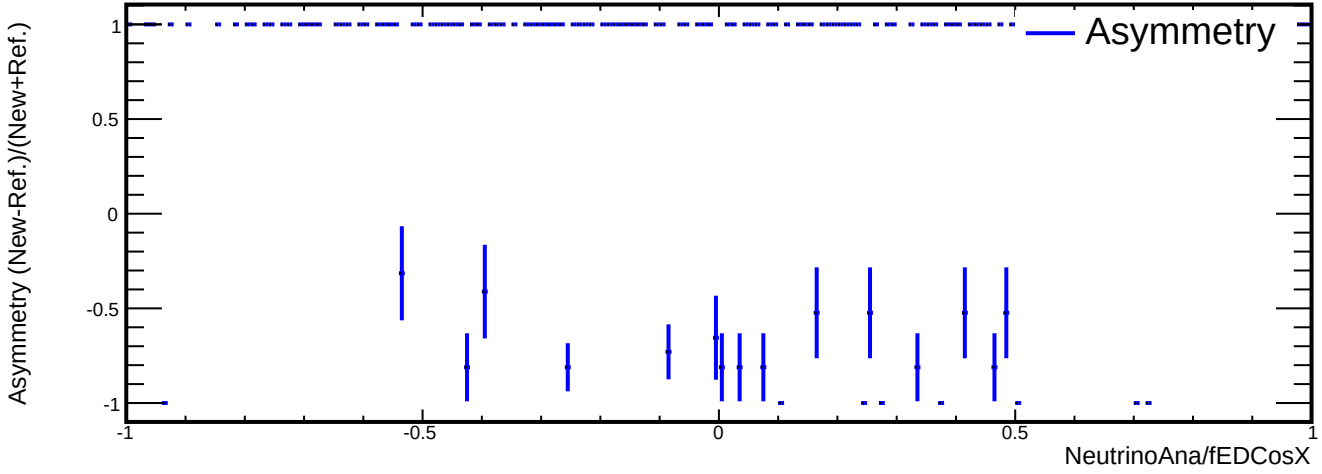

KS 0.30799, chi2 9.4501e-133
2012-06-05
2012-06-06
NeutrinoAna/fMuDCosY
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fMuDCosY

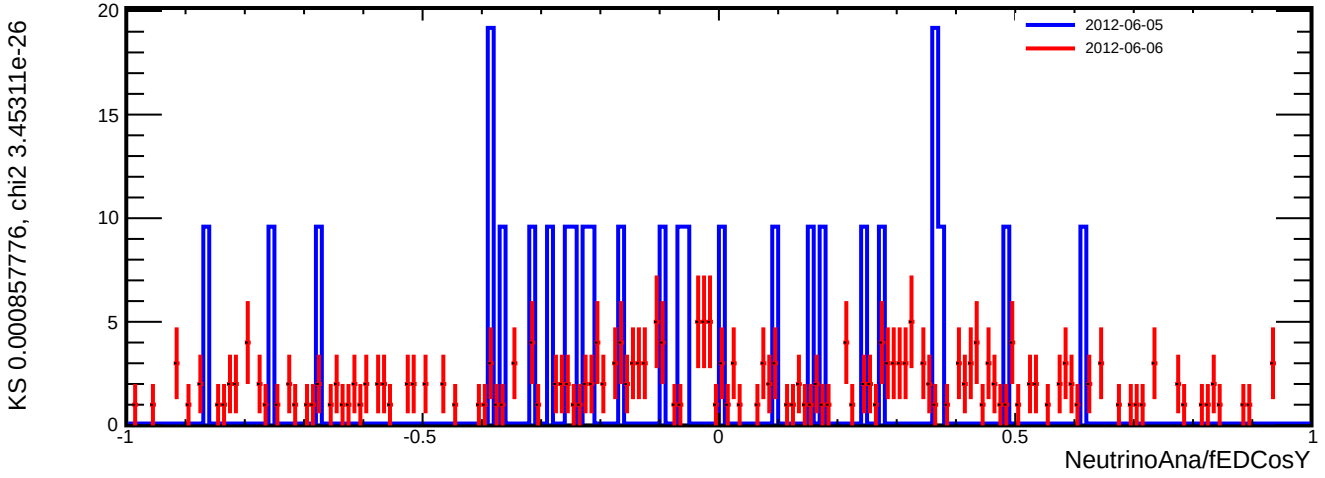

KS 0.0866703, chi2 1.66856e-96
2012-06-05
2012-06-06
300
200
100
0
-1
-0.5
0
0.5
1
NeutrinoAna/fMuDCosZ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fMuDCosZ

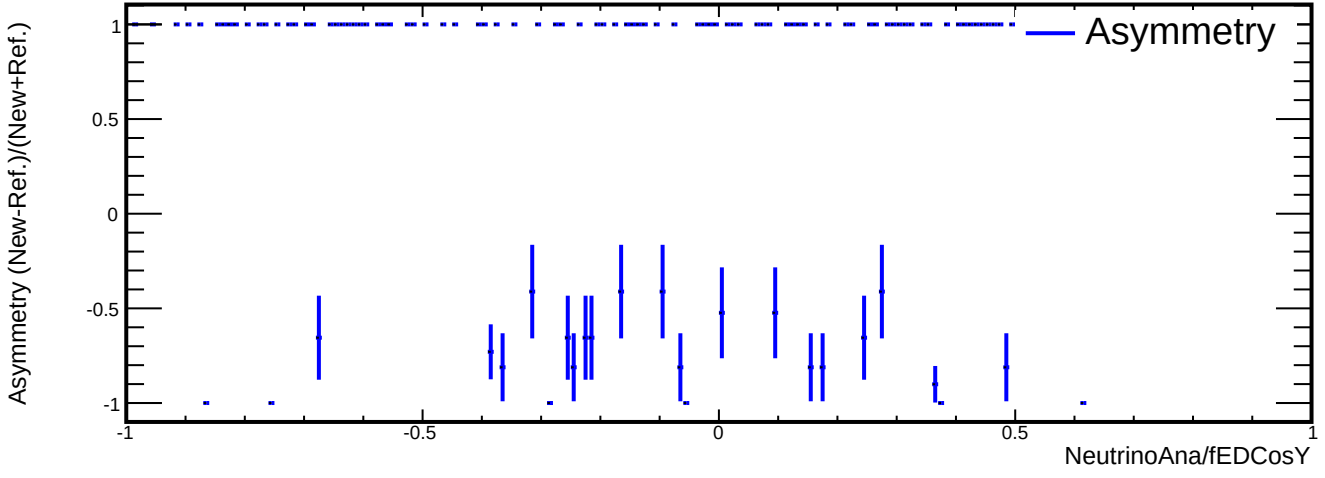

KS 0.000516163, chi2 3.7131e-11
2012-06-05
2012-06-06
NeutrinoAna/fEMomentum

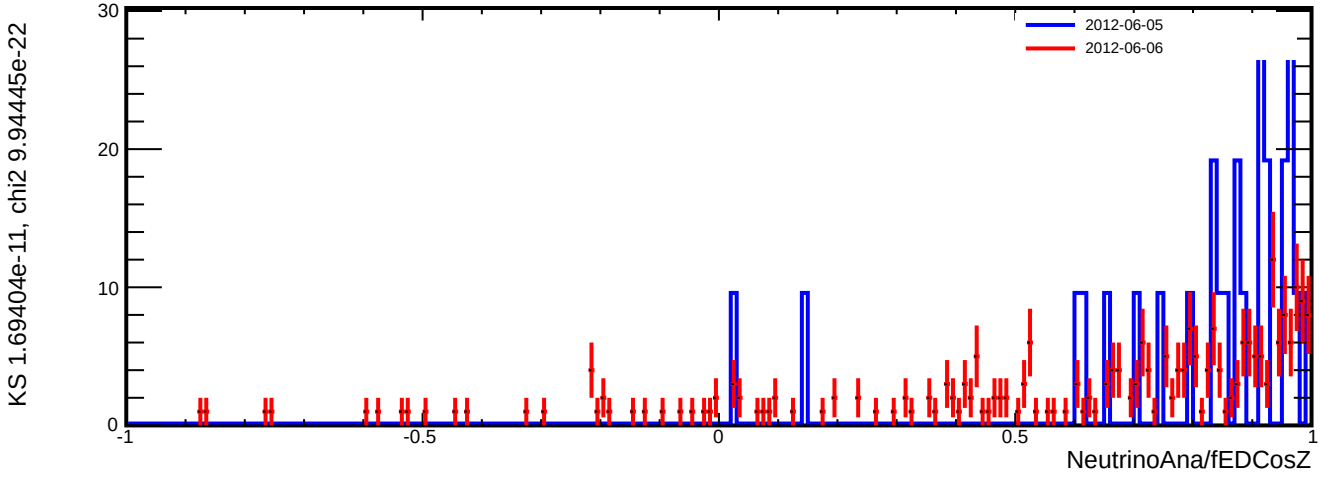

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEMomentum

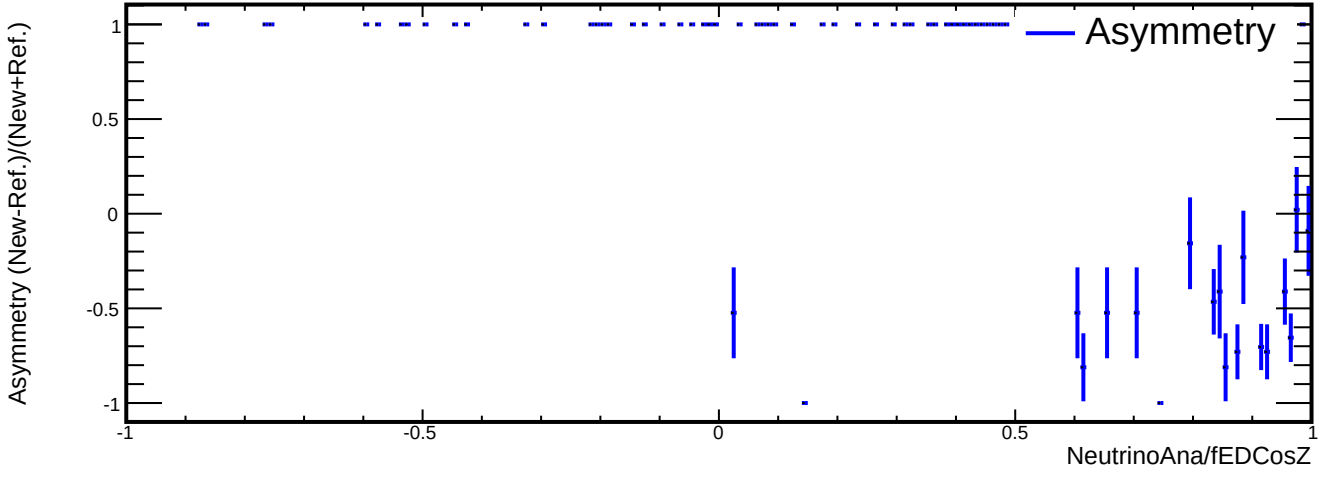

KS 2.79102e-08, chi2 2.22611e-26
2012-06-05
2012-06-06
NeutrinoAna/fEDCosX

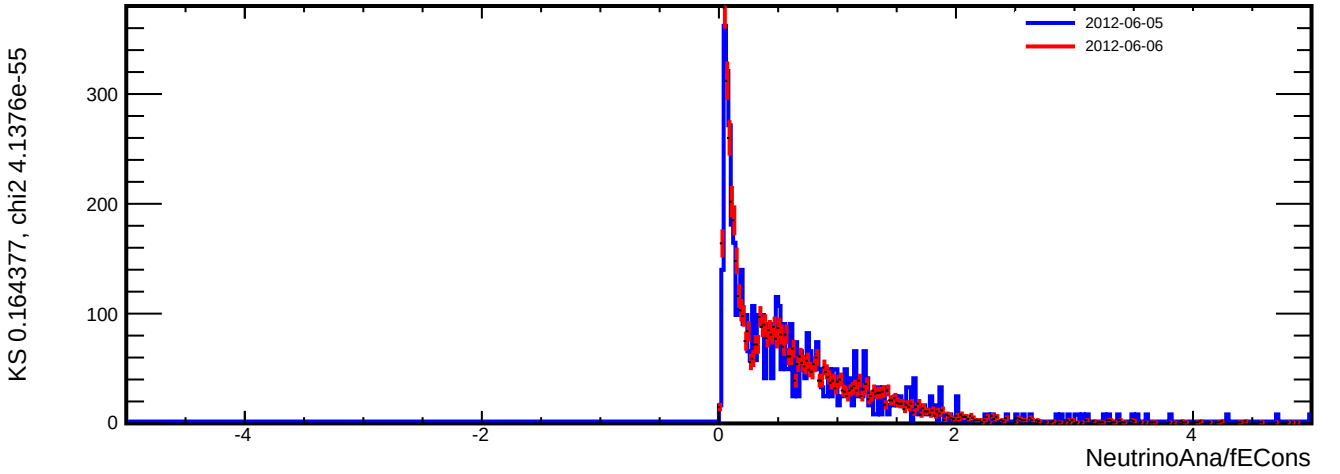

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEDCosX

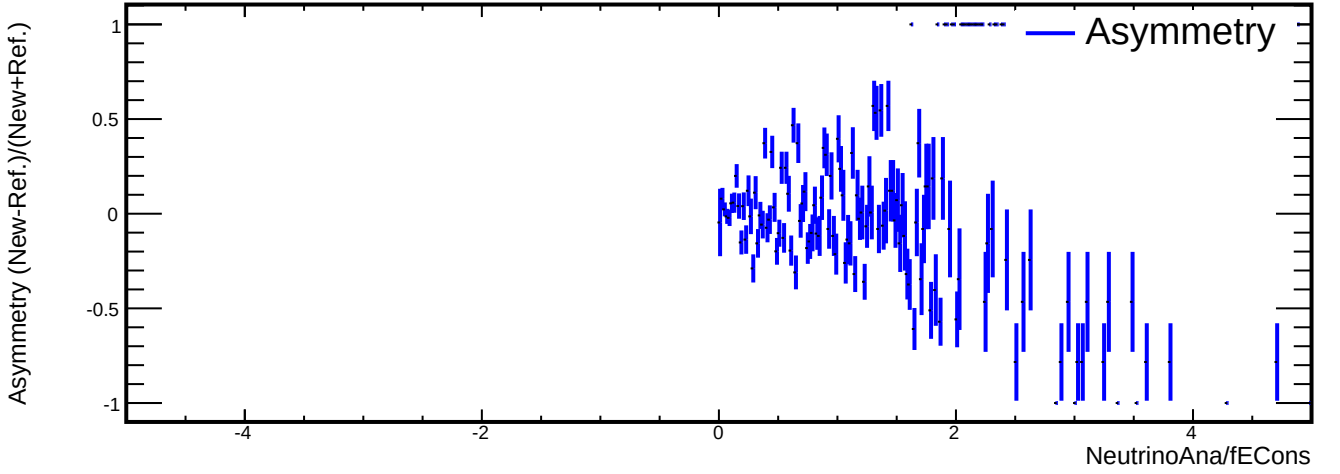

KS 0.000857776, chi2 3.45311e-26
2012-06-05
2012-06-06
NeutrinoAna/fEDCosY

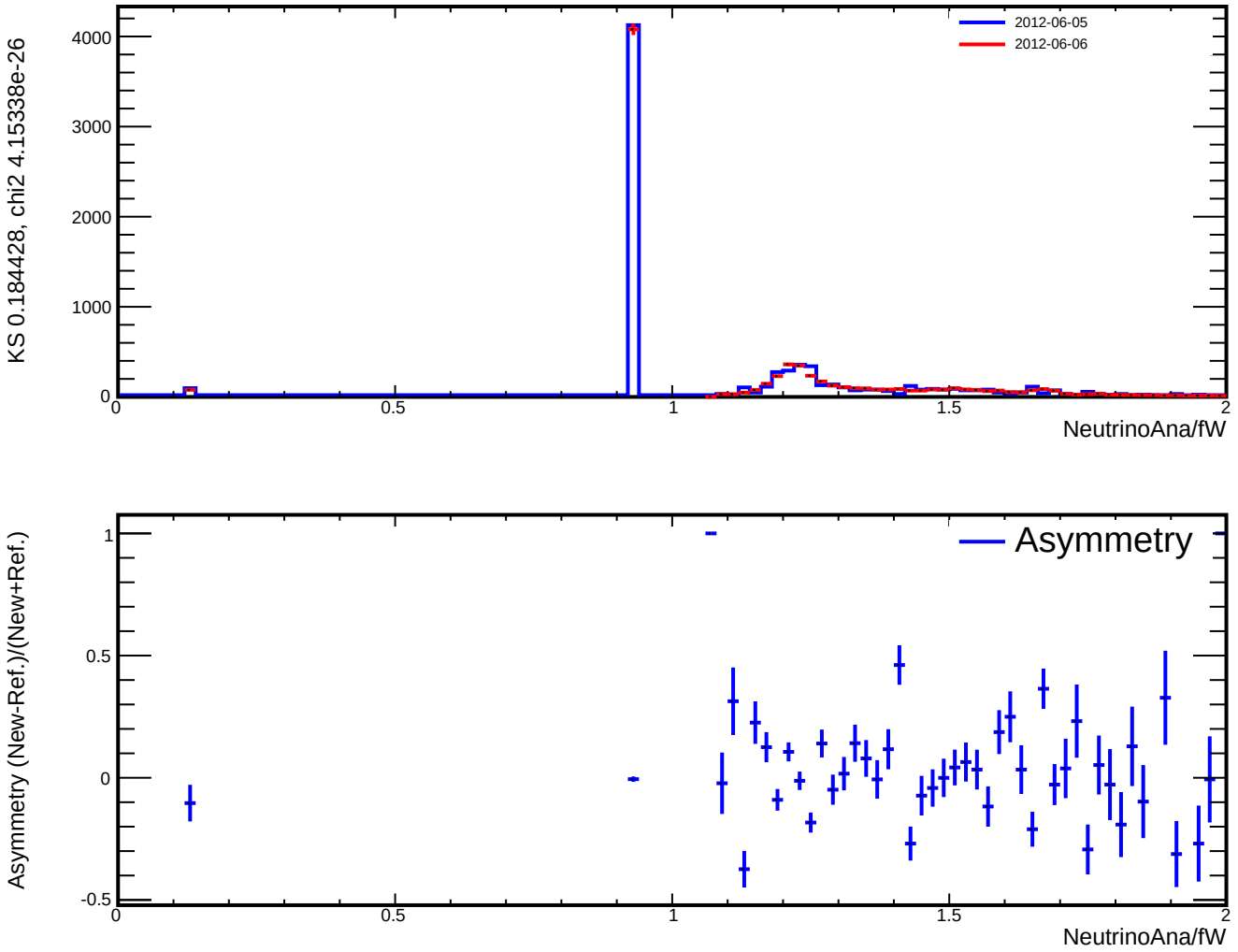

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEDCosY

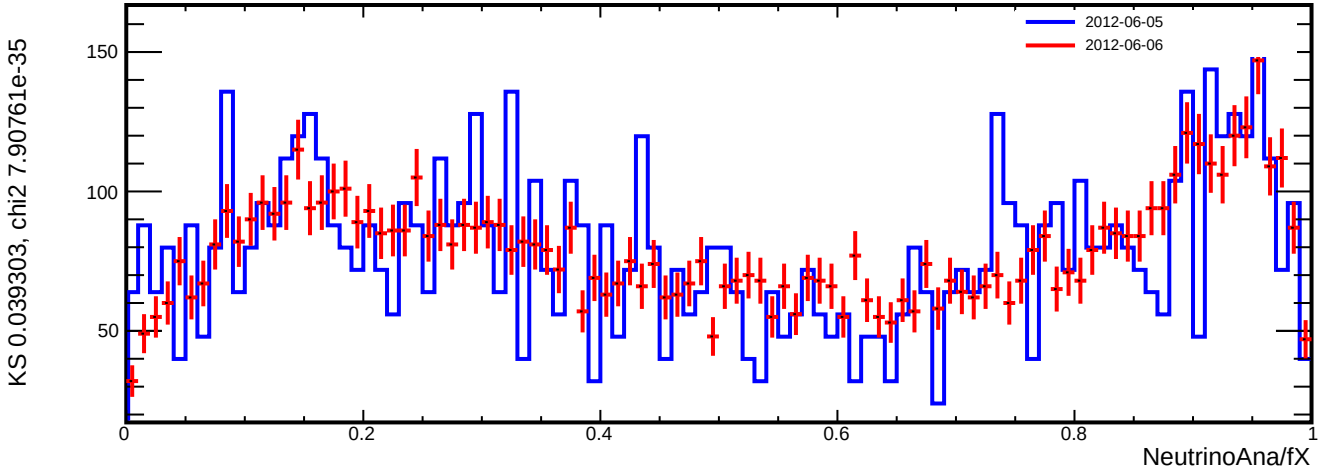

KS 1.69404e-11, chi2 9.94445e-22
2012-06-05
2012-06-06
NeutrinoAna/fEDCosZ

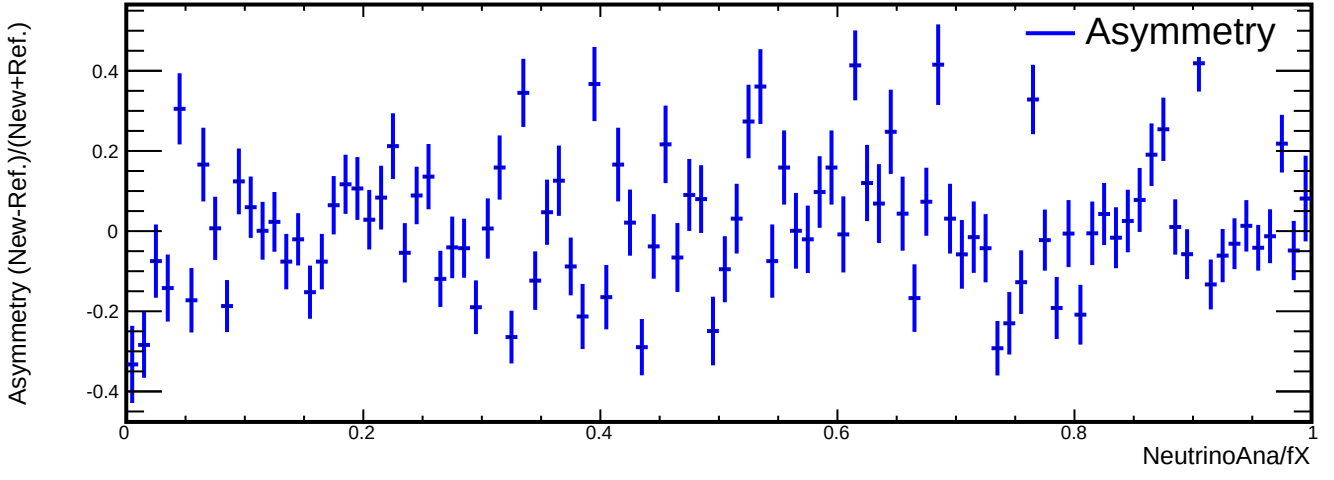

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fEDCosZ

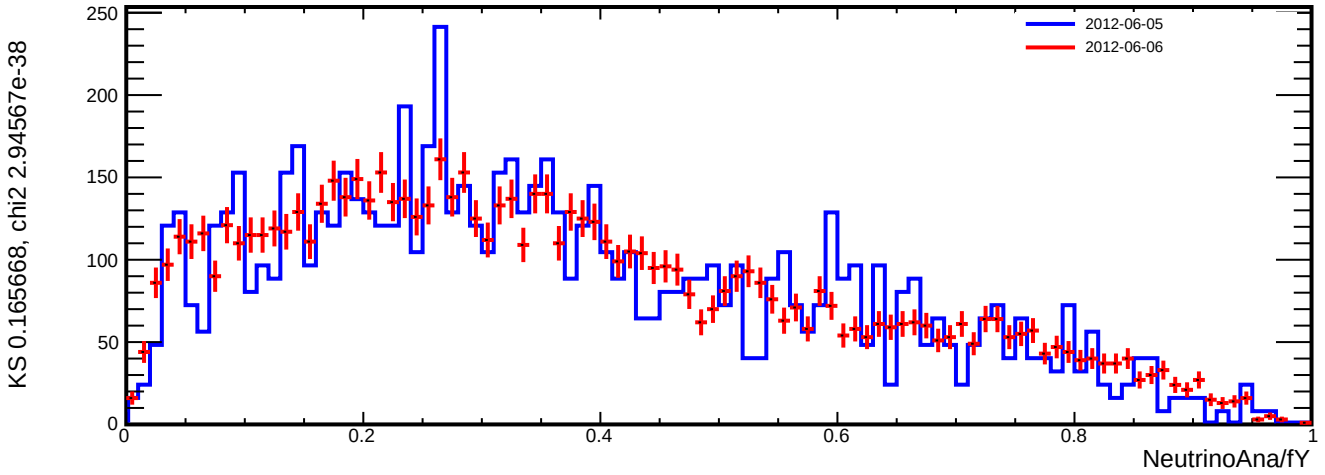

KS 0.164377, chi2 4.1376e-55
2012-06-05
2012-06-06
300
200
100
0
-4
-2
0
2
4
NeutrinoAna/fECons

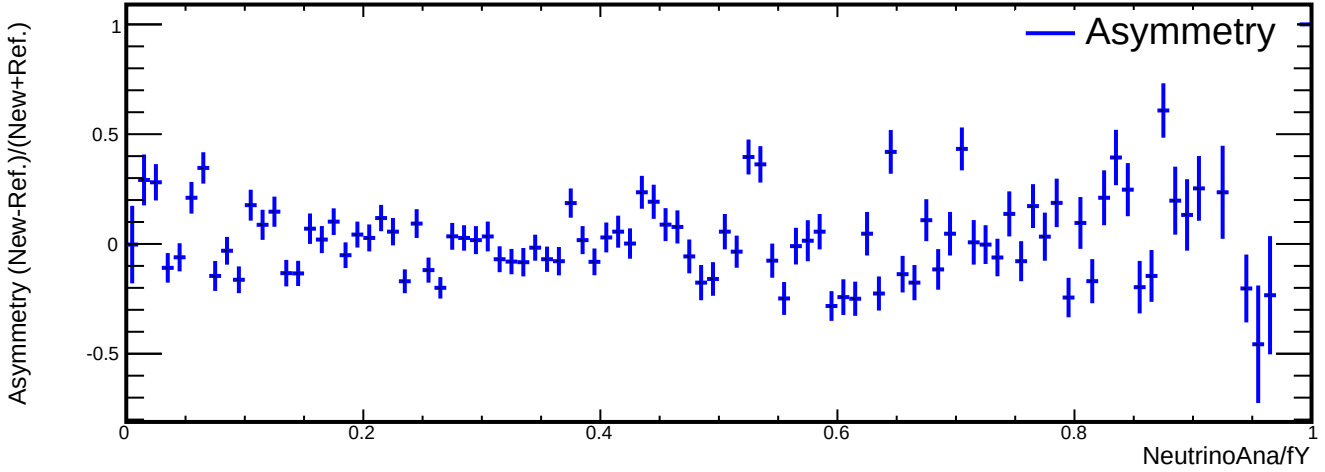

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-4
-2
0
2
4
NeutrinoAna/fECons

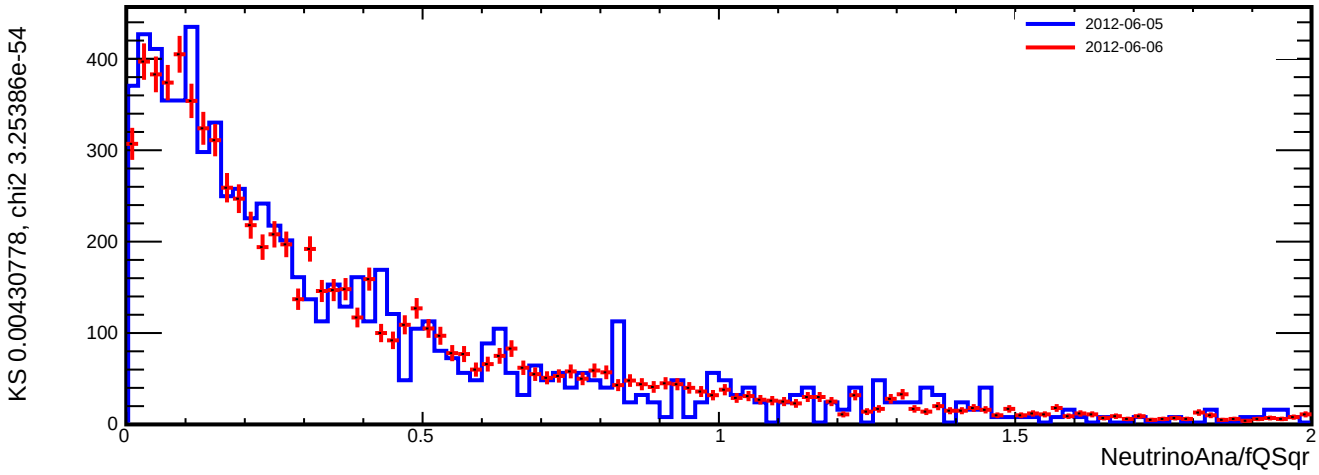

KS 0.184428, chi2 4.15338e-26
2012-06-05
2012-06-06
NeutrinoAna/fW
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fW

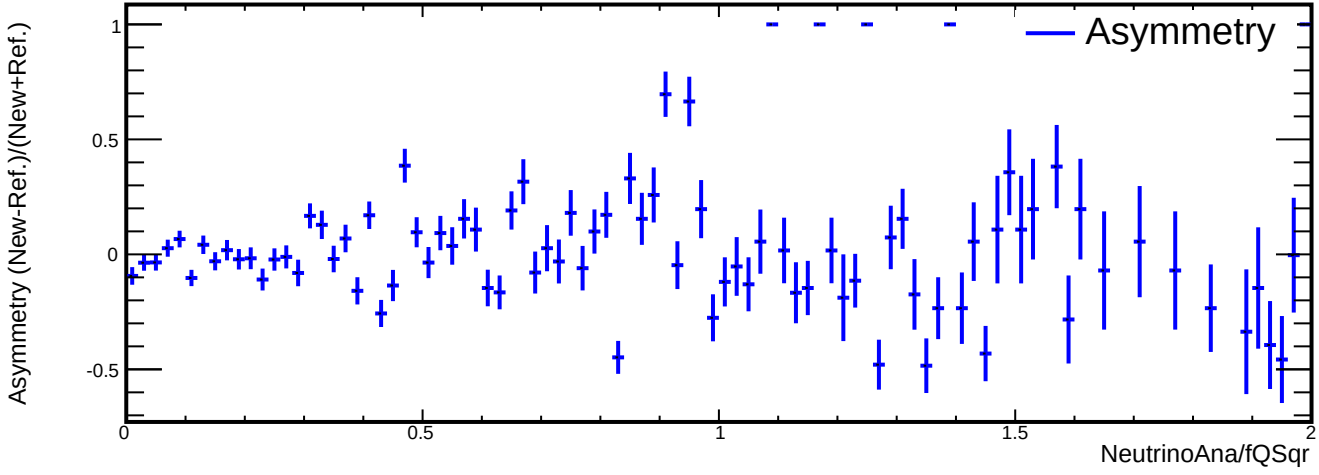

KS 0.039303, chi2 7.90761e-35
2012-06-05
2012-06-06
150
100
50
0
0.2
0.4
0.6
0.8
1
NeutrinoAna/fX

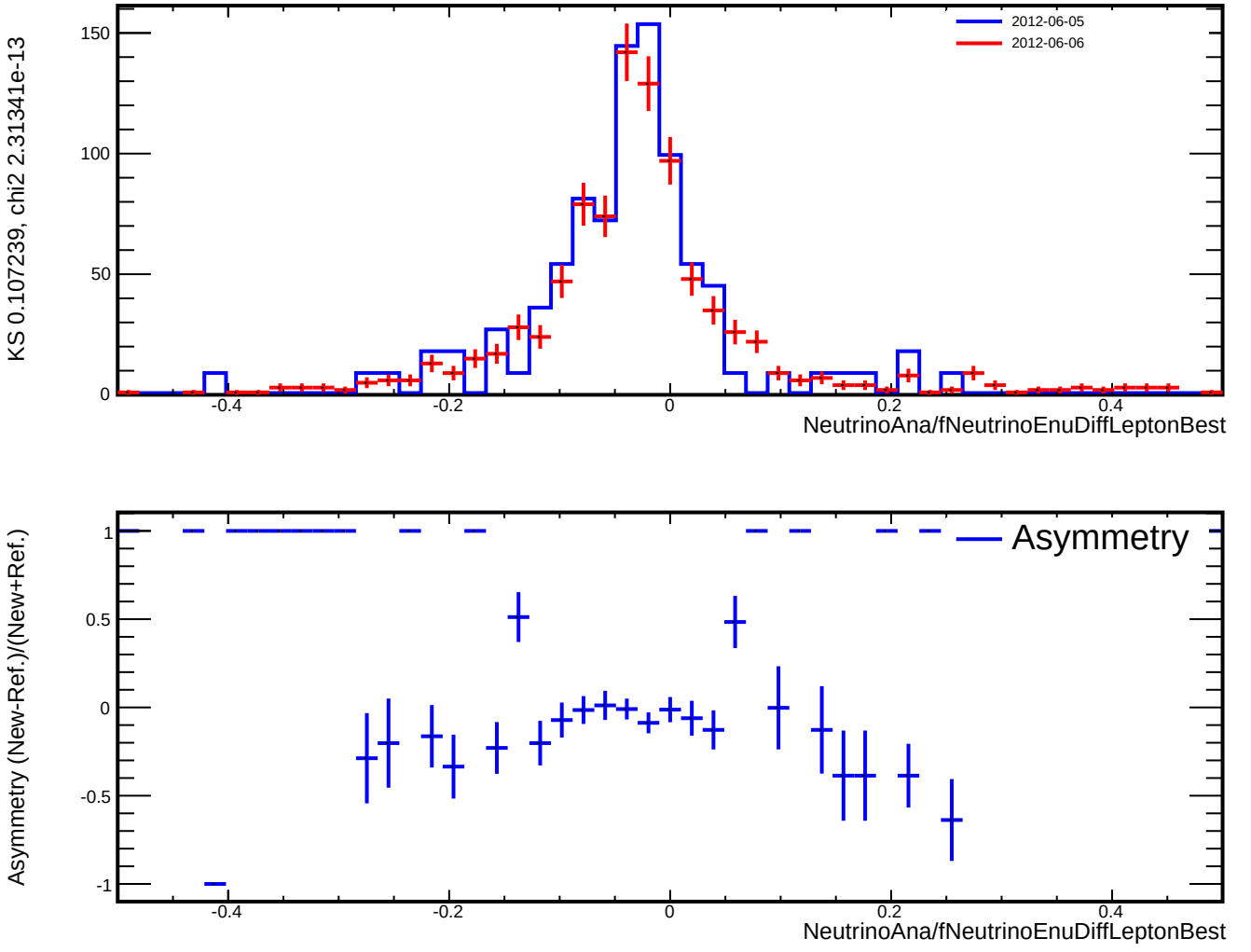

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.4
0.2
0
-0.2
-0.4
0
0.2
0.4
0.6
0.8
1
NeutrinoAna/fX

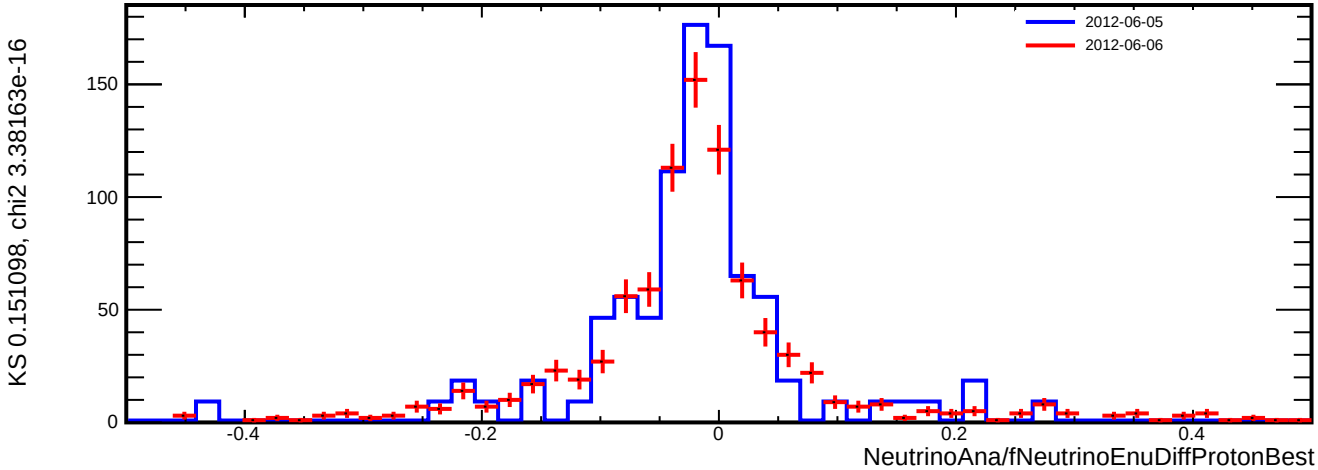

KS 0.165668, chi2 2.94567e-38
2012-06-05
2012-06-06
NeutrinoAna/fY


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


KS 0.00430778, chi2 3.25386e-54
2012-06-05
2012-06-06
400
300
200
100
0
0
0.5
1
1.5
2
NeutrinoAna/fQSqr


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


KS 0.107239, chi2 2.31341e-13
150
100
50
0
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffLeptonBest
2012-06-05
2012-06-06
Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffLeptonBest
Asymmetry


KS 0.151098, chi2 3.38163e-16
2012-06-05
2012-06-06
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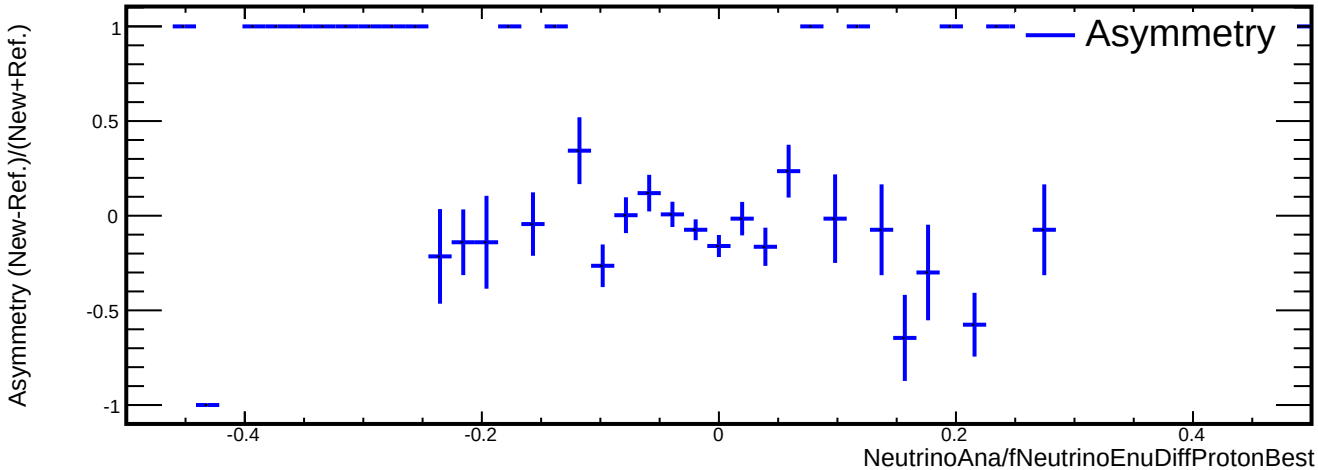
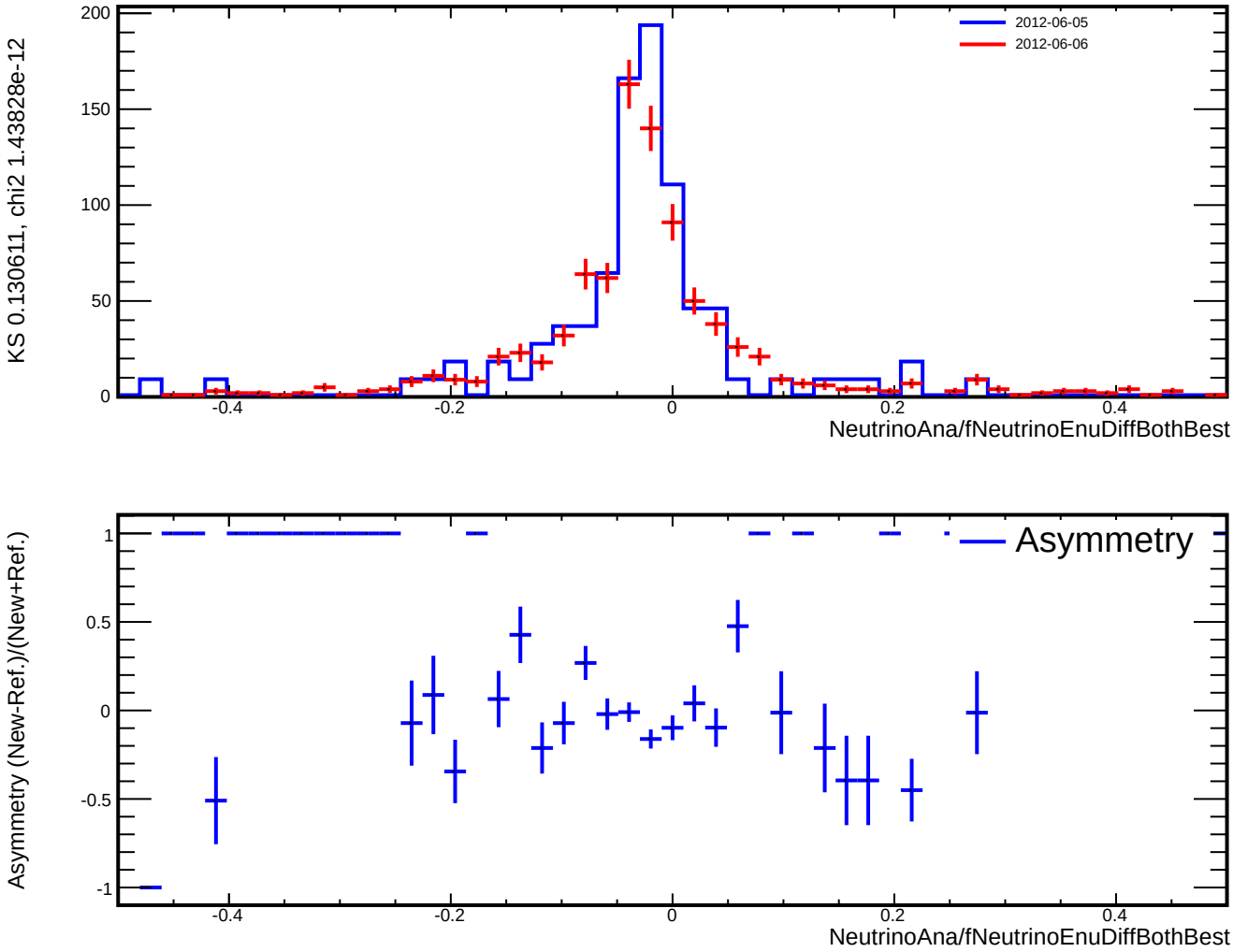
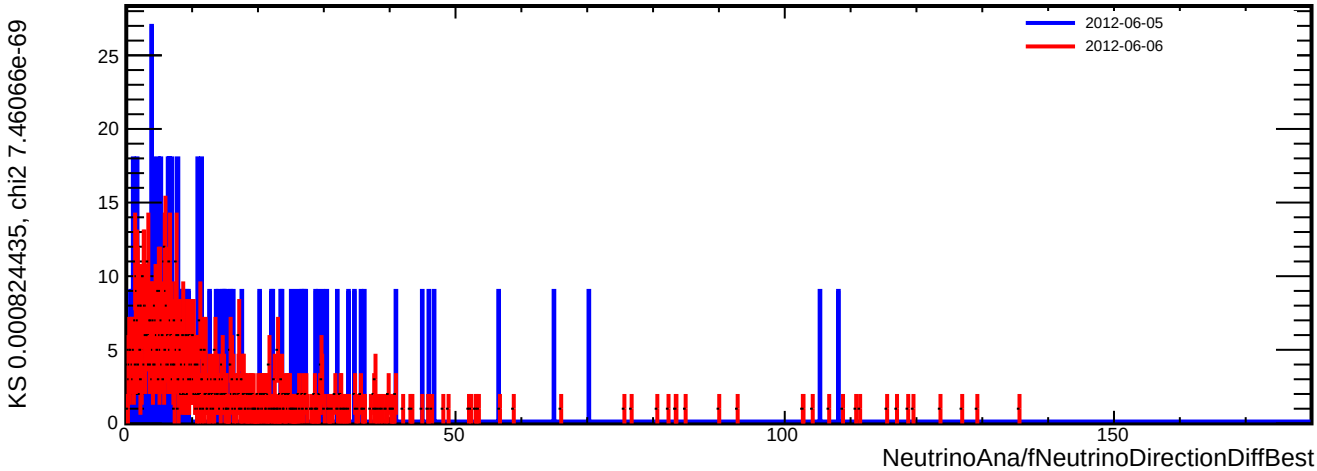
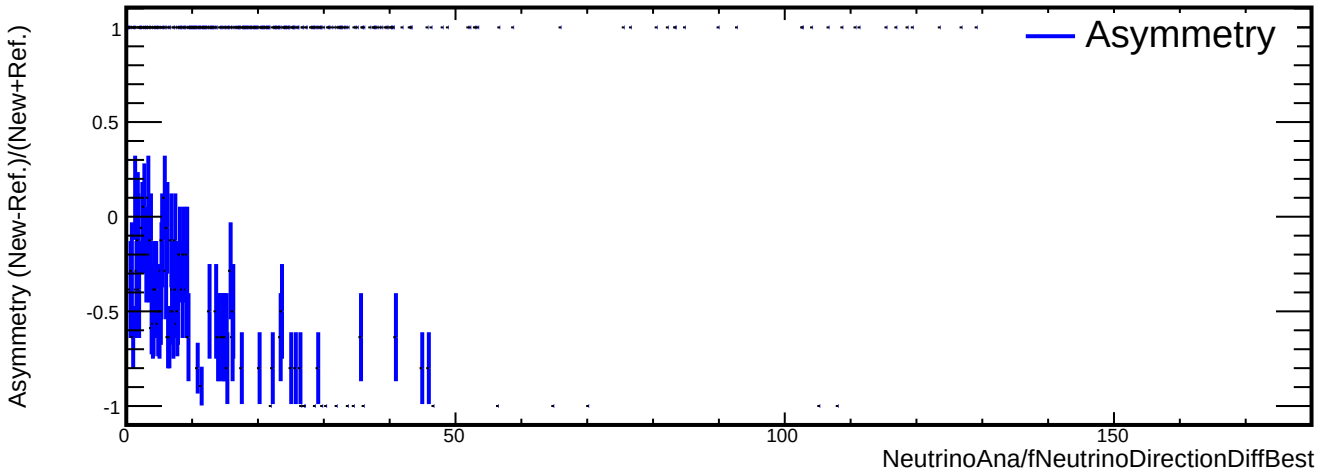
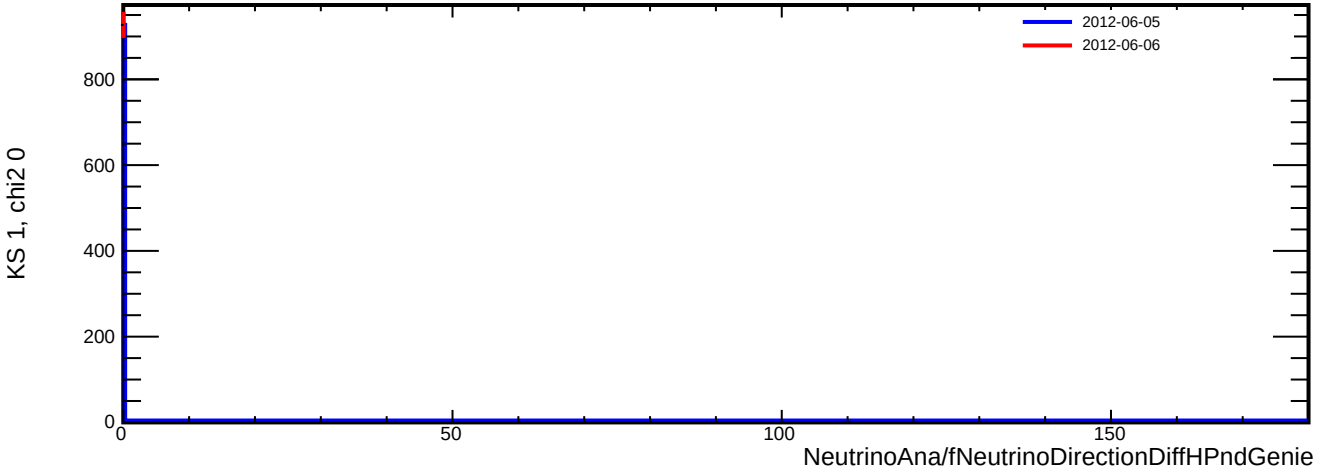
100
50
0
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffProtonBest

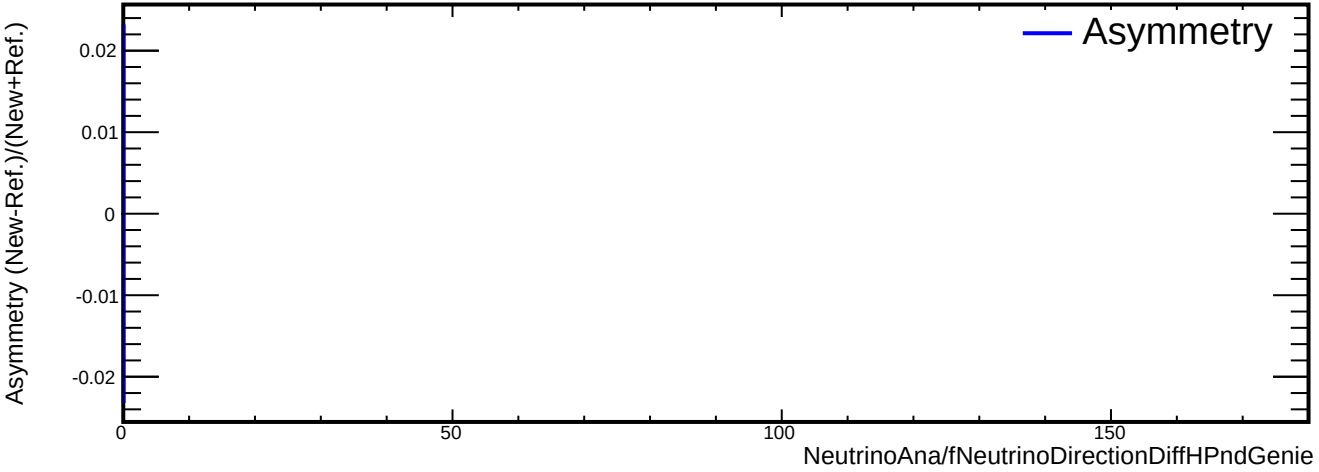

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-0.4
-0.2
0
0.2
0.4
NeutrinoAna/fNeutrinoEnuDiffProtonBest

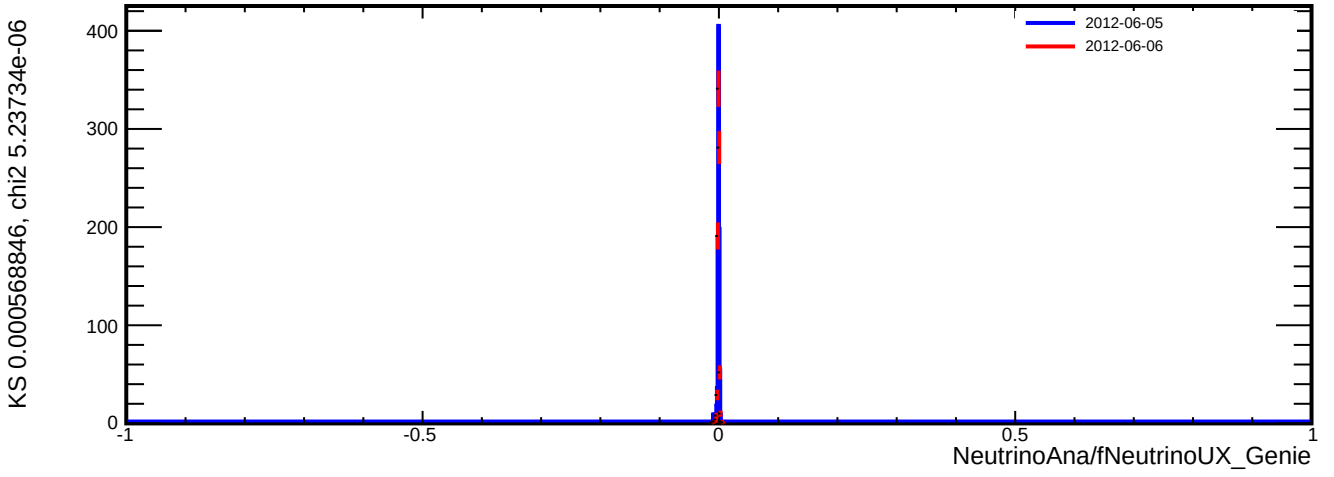

KS 0.130611, chi2 1.43828e-12
2012-06-05
2012-06-06
NeutrinoAna/fNeutrinoEnuDiffBothBest
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fNeutrinoEnuDiffBothBest

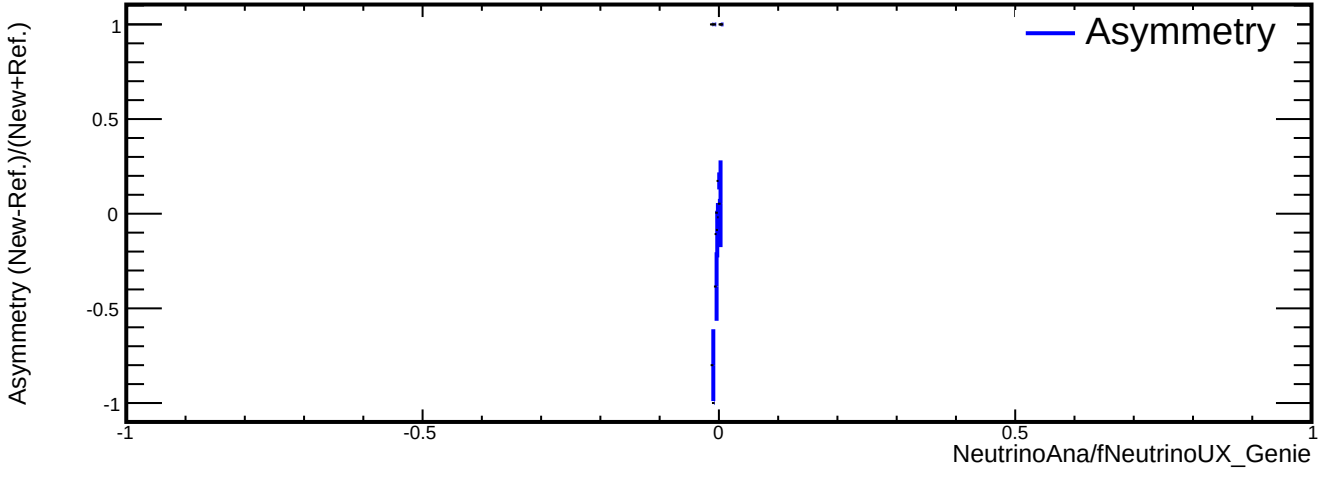

KS 0.000824435, chi2 7.46066e-69
2012-06-05
2012-06-06
0
5
10
15
20
25
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffBest

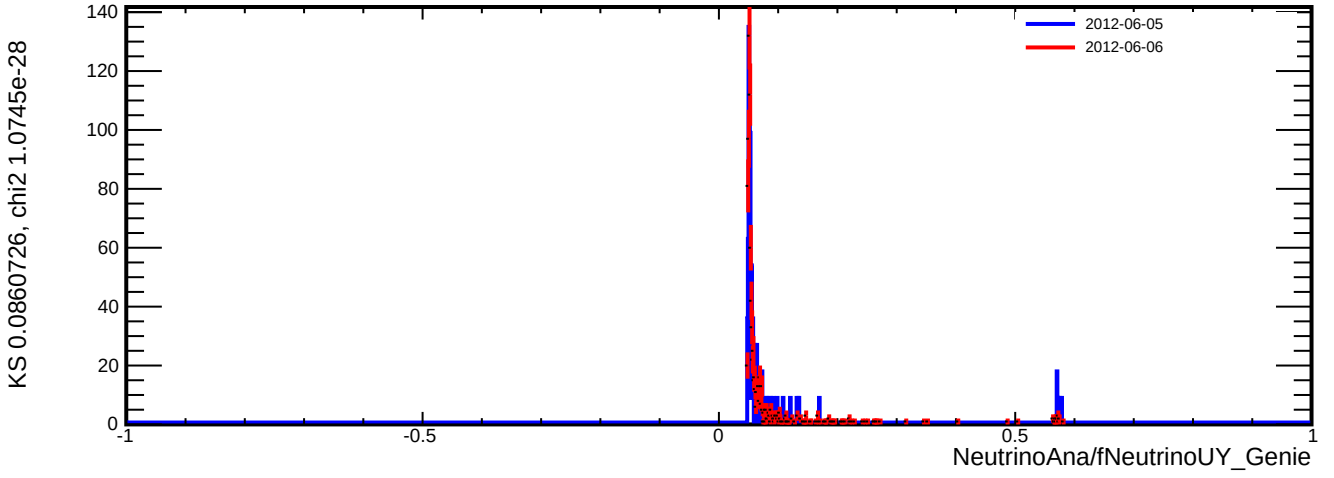

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffBest

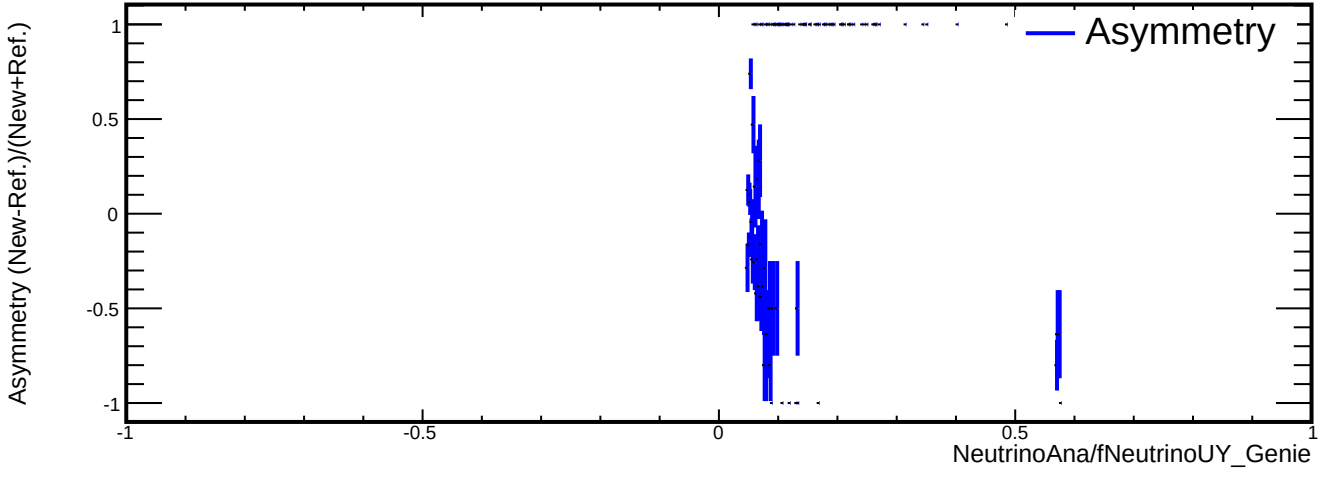

2012-06-05
2012-06-06
KS 1, chi2 0
800
600
400
200
0
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie

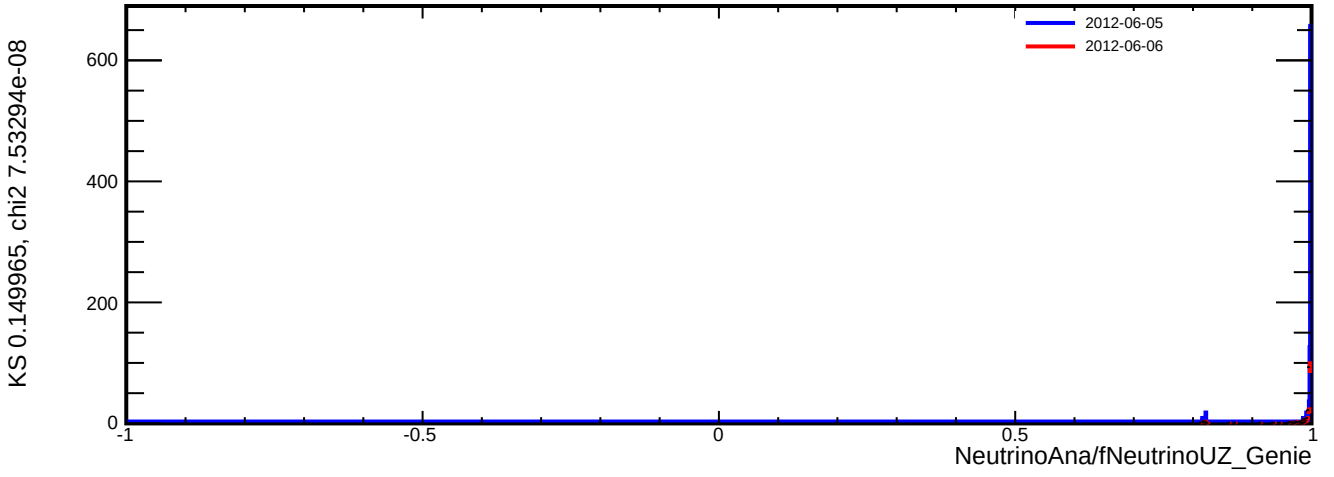

Asymmetry
Asymmetry (New-Ref.)/(New+Ref.)
0.02
0.01
0
-0.01
-0.02
0
50
100
150
NeutrinoAna/fNeutrinoDirectionDiffHPndGenie

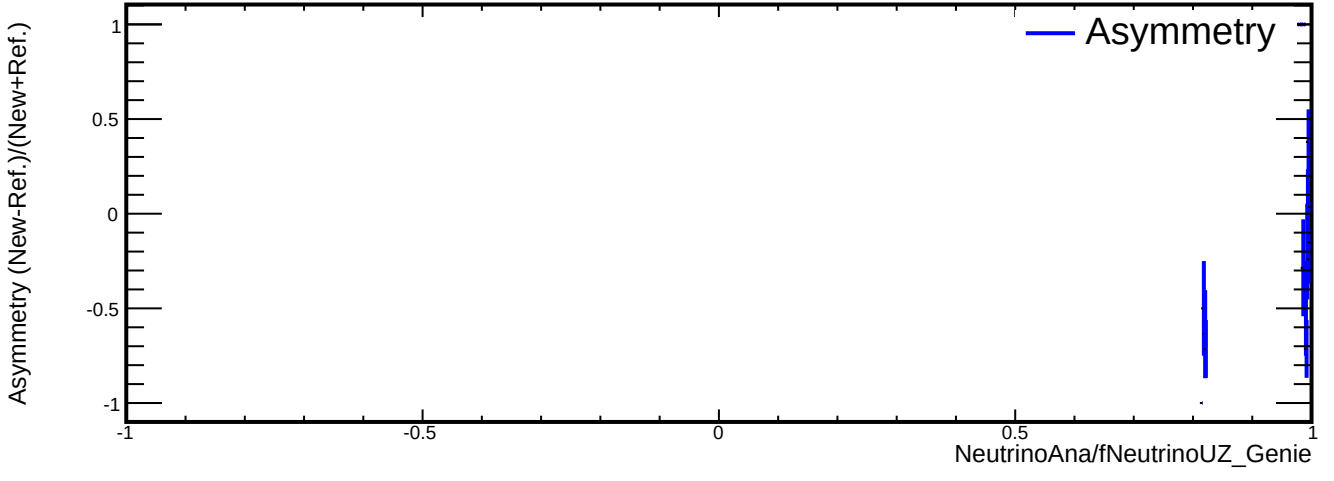

KS 0.000568846, chi2 5.23734e-06
400
300
200
100
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_Genie
2012-06-05
2012-06-06

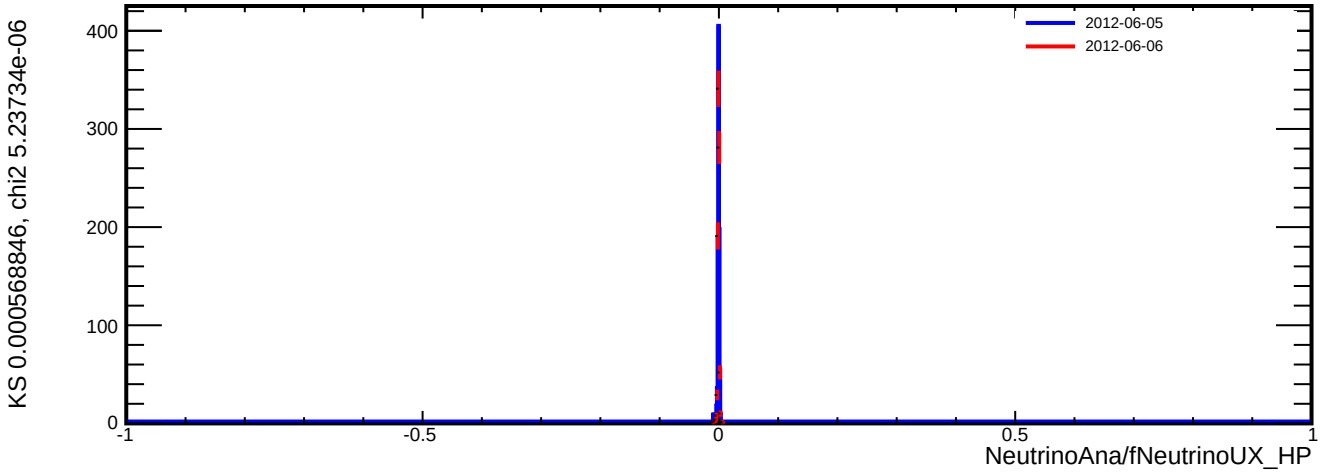

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_Genie
Asymmetry

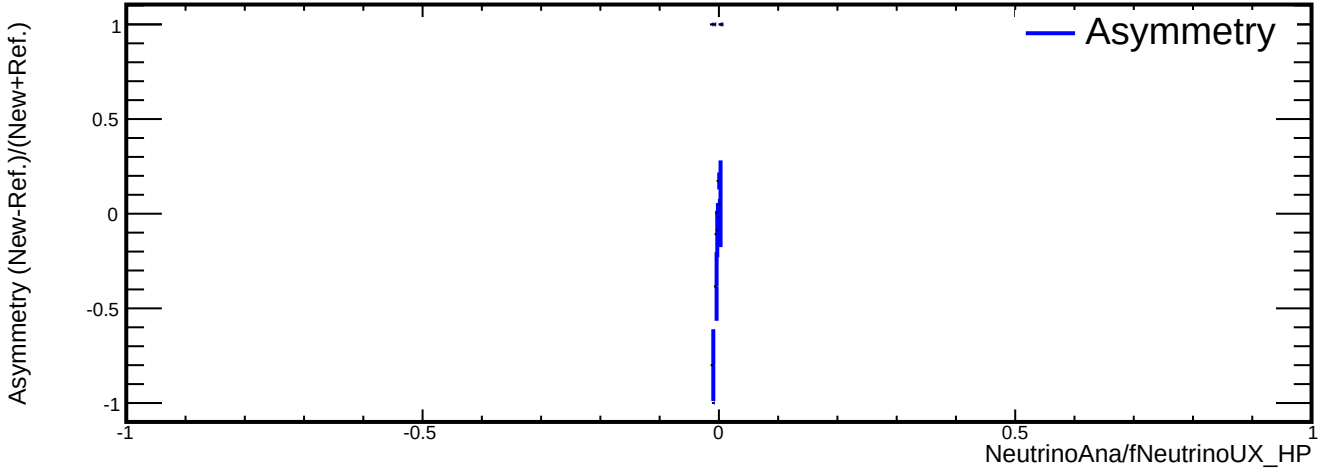

KS 0.0860726, chi2 1.0745e-28
2012-06-05
2012-06-06
NeutrinoAna/fNeutrinoUY_Genie

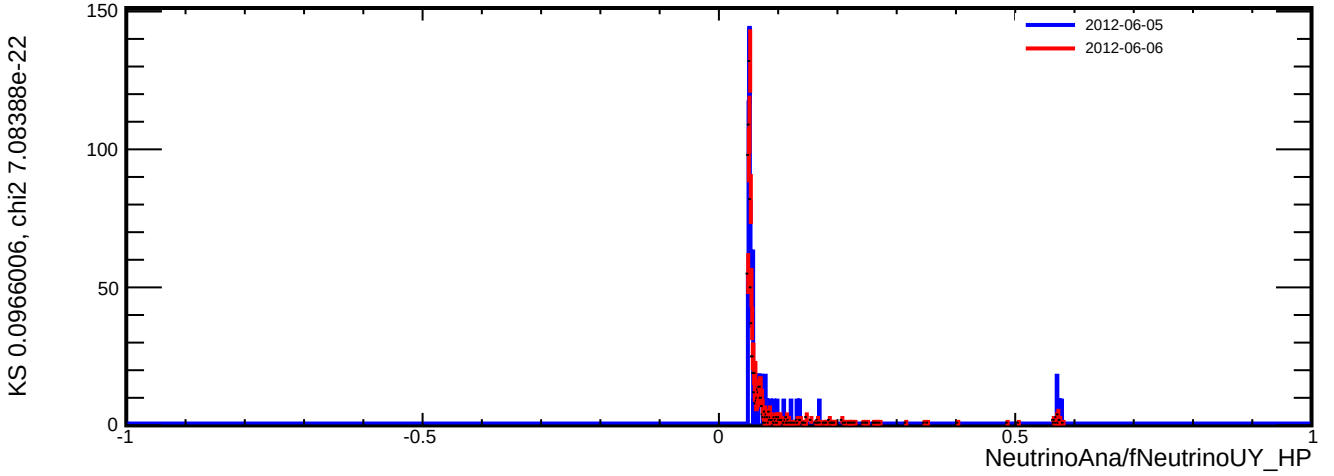

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
NeutrinoAna/fNeutrinoUY_Genie

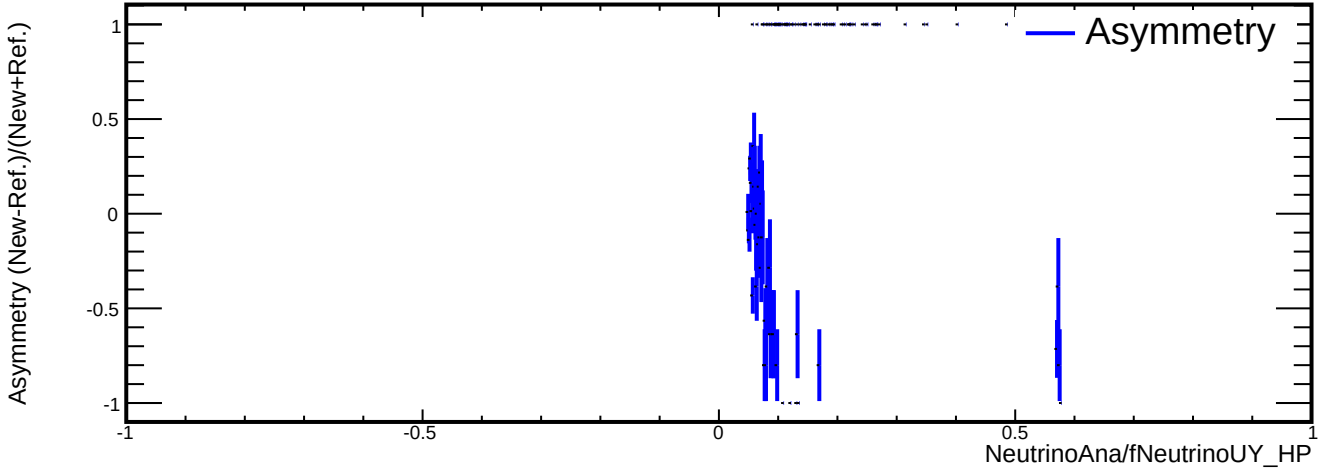

KS 0.149965, chi2 7.53294e-08
2012-06-05
2012-06-06
600
400
200
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_Genie

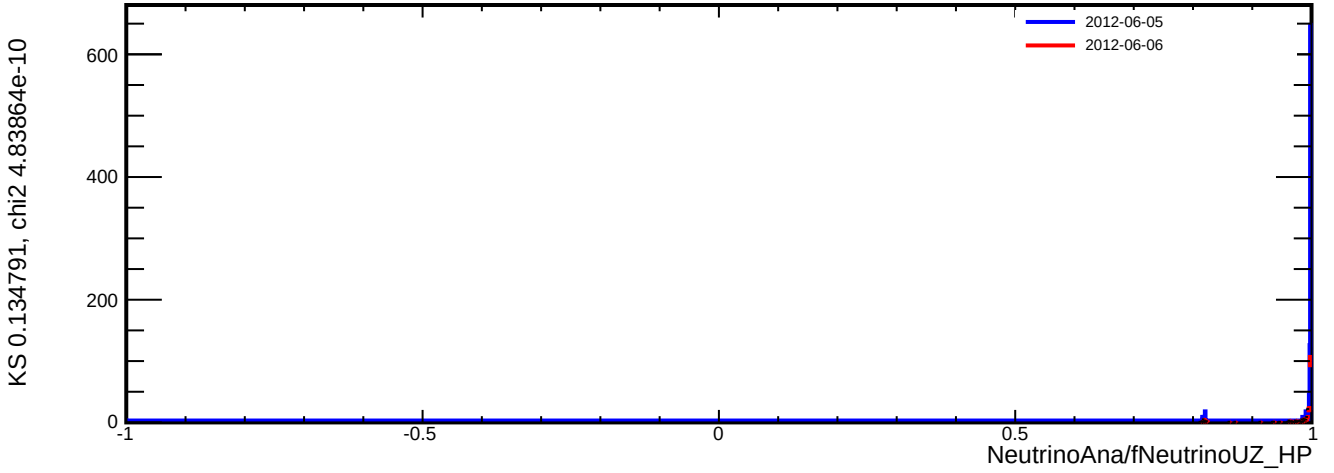

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_Genie

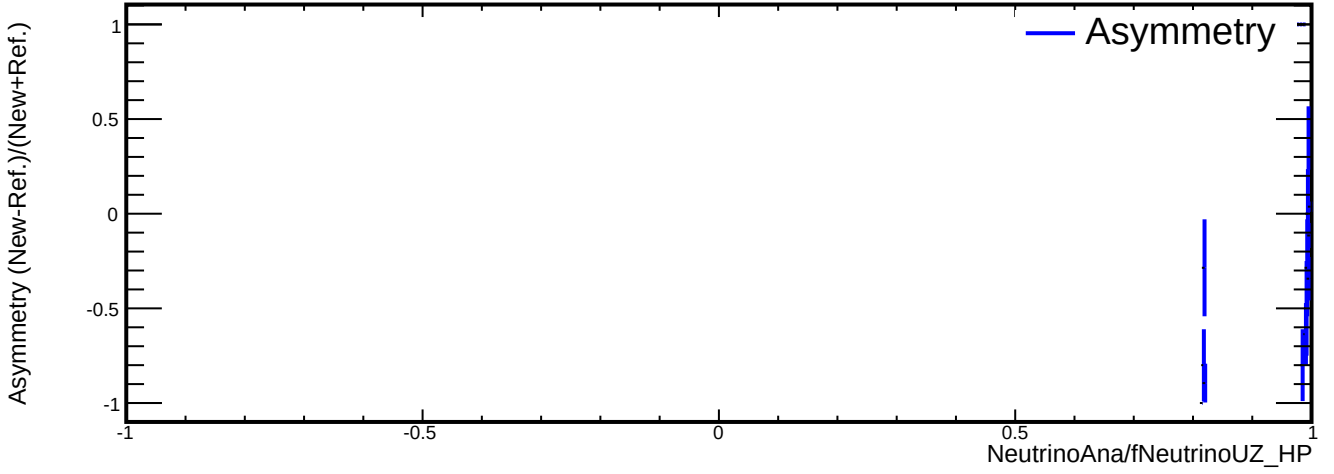

KS 0.000568846, chi2 5.23734e-06
400
300
200
100
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_HP
2012-06-05
2012-06-06

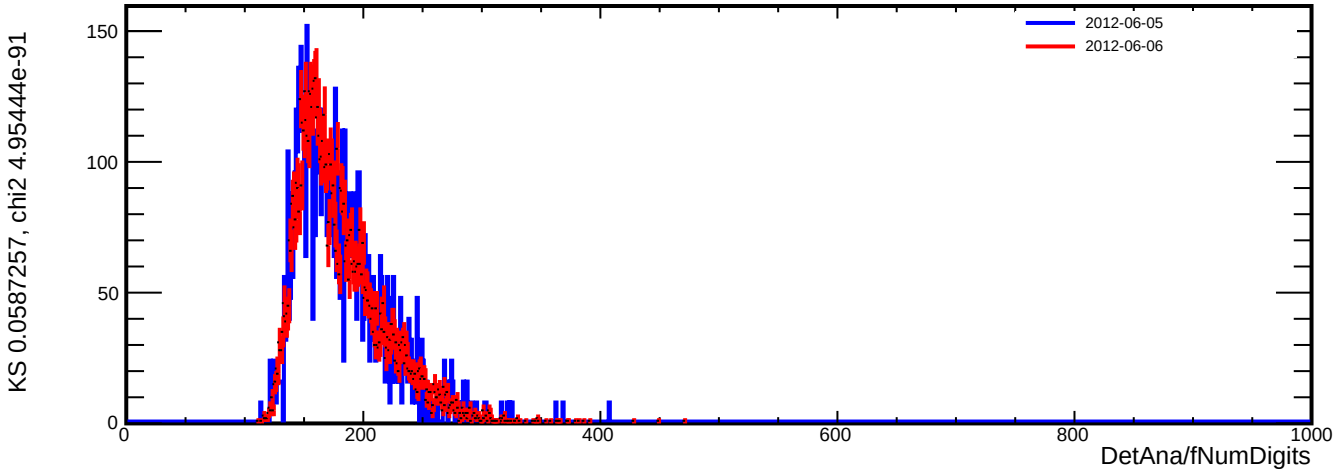

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUX_HP
Asymmetry

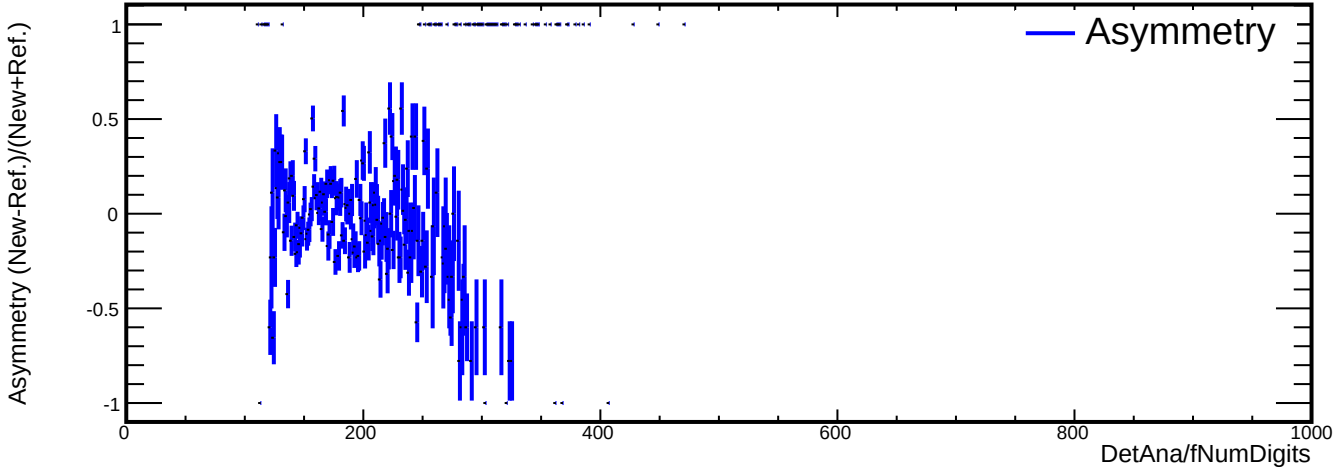

KS 0.0966006, chi2 7.08388e-22
150
100
50
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUY_HP
2012-06-05
2012-06-06

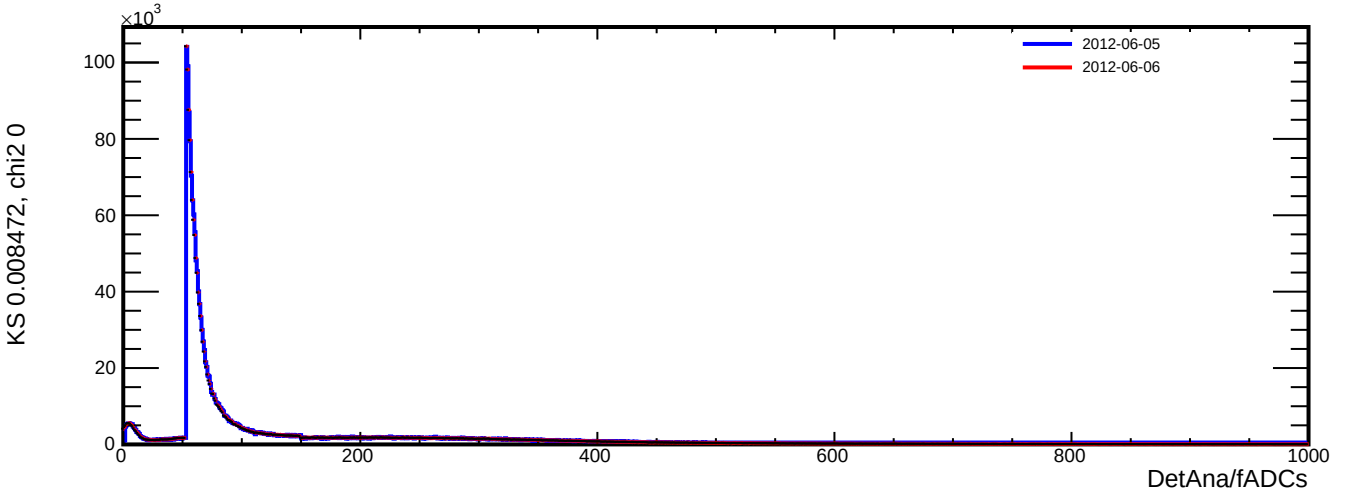

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUY_HP
Asymmetry

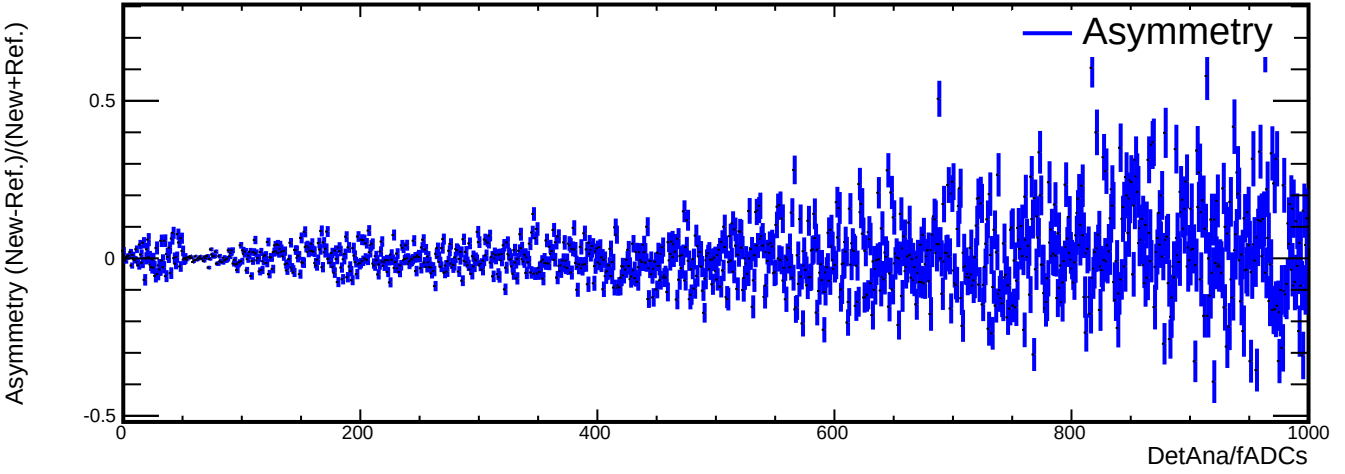

KS 0.134791, chi2 4.83864e-10
2012-06-05
2012-06-06
600
400
200
0
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_HP

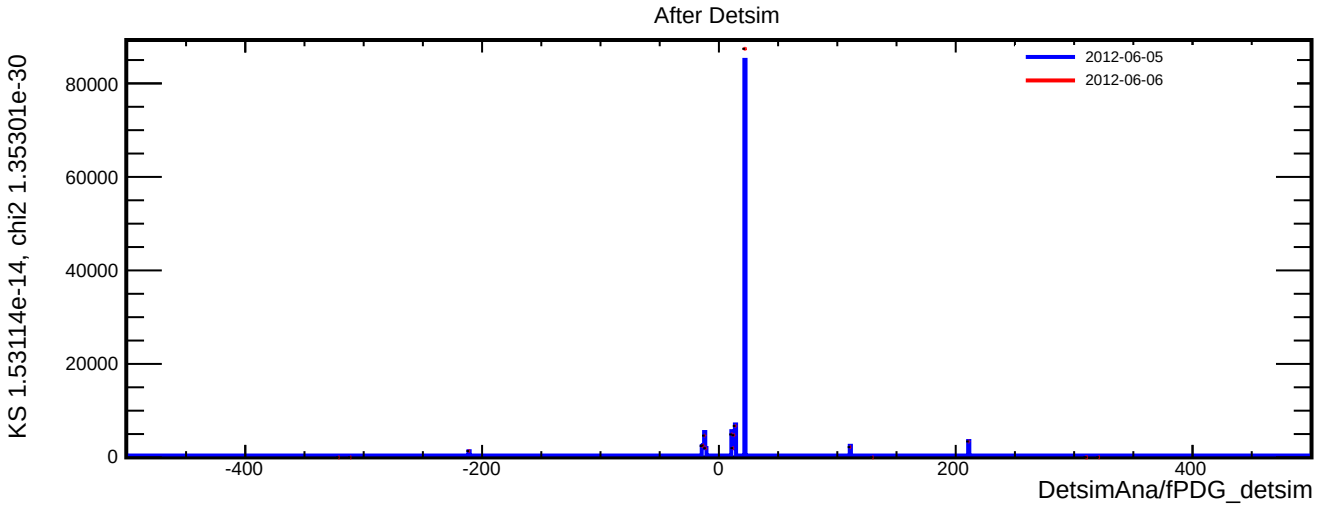

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-1
-0.5
0
0.5
1
NeutrinoAna/fNeutrinoUZ_HP

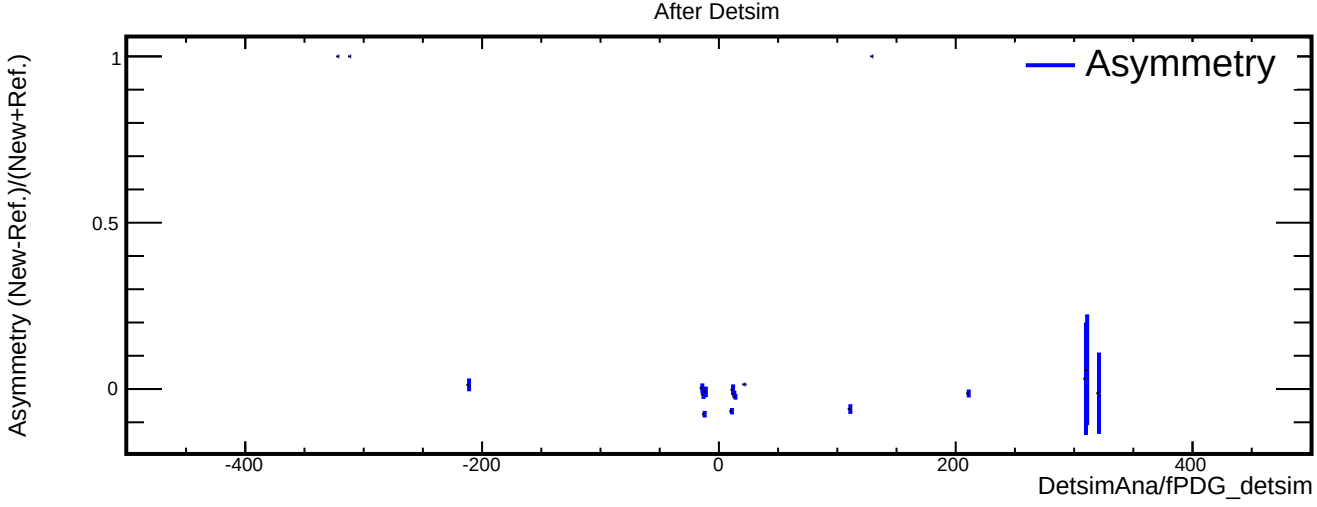

KS 0.0587257, chi2 4.95444e-91
150
100
50
0
0
200
400
600
800
1000
DetAna/fNumDigits
2012-06-05
2012-06-06

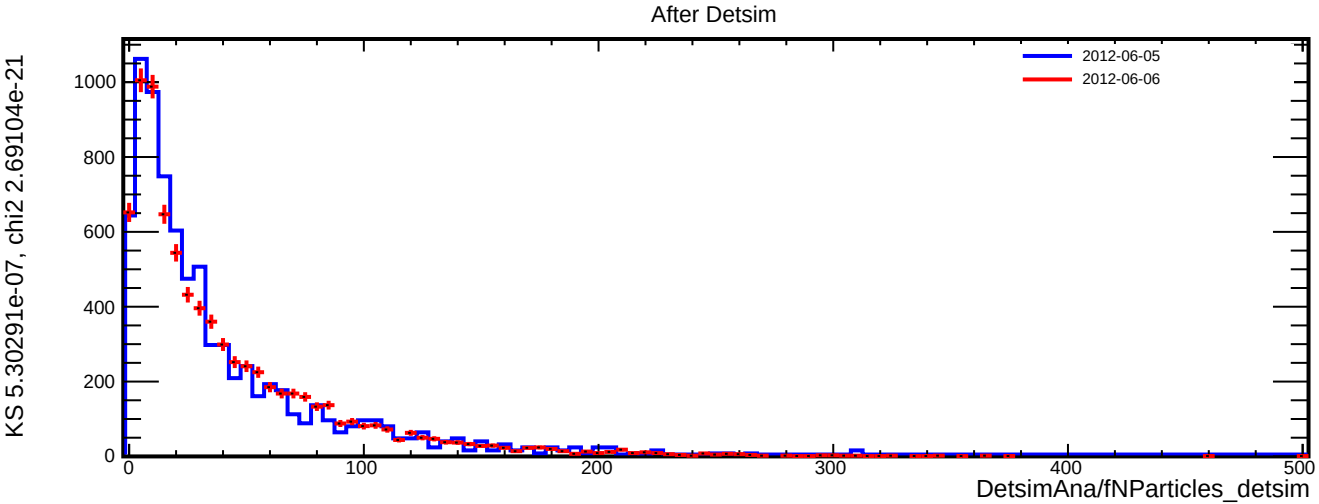

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
200
400
600
800
1000
DetAna/fNumDigits
Asymmetry

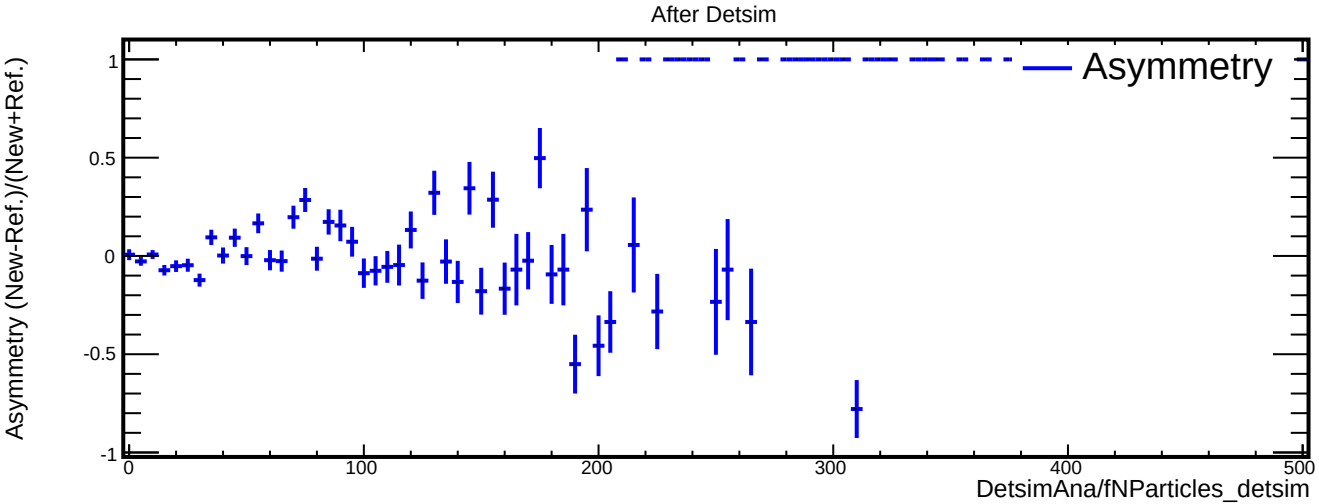

×10^3
100
80
60
40
20
0
KS 0.008472, chi2 0
2012-06-05
2012-06-06
0
200
400
600
800
1000
DetAna/fADCs

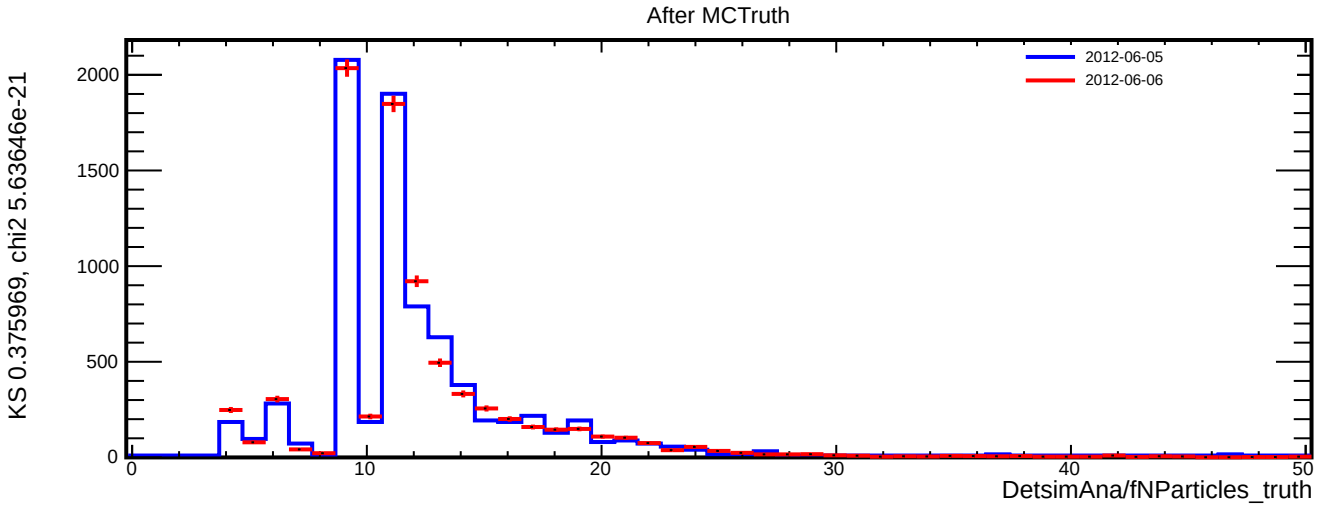

Asymmetry
0.5
0
-0.5
Asymmetry (New-Ref.)/(New+Ref.)
0
200
400
600
800
1000
DetAna/fADCs

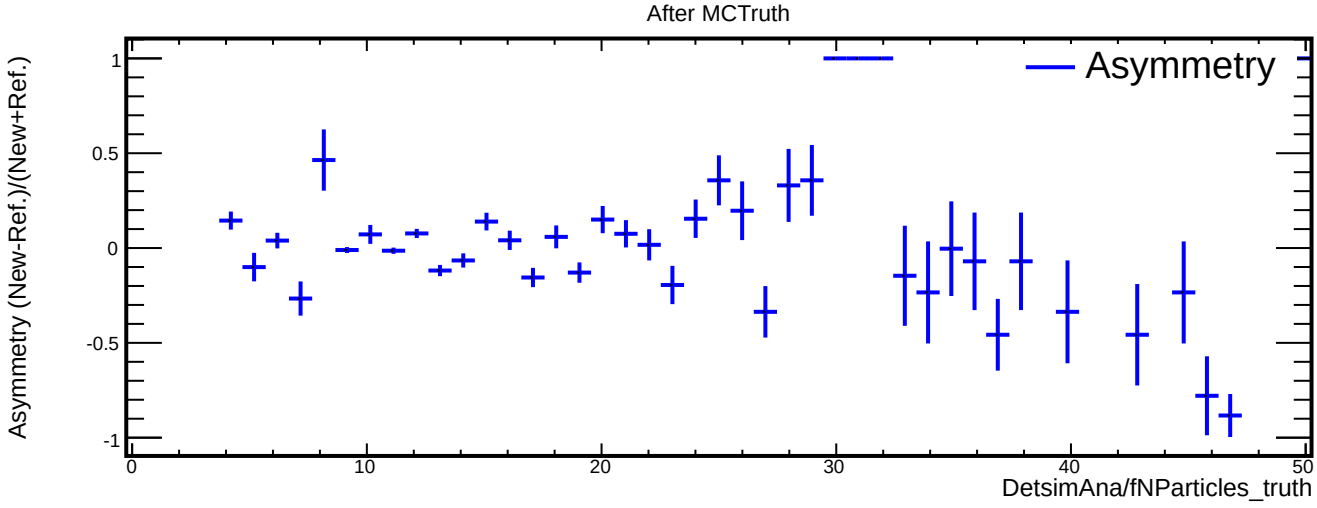

After Detsim
KS 1.53114e-14, chi2 1.35301e-30
2012-06-05
2012-06-06
80000
60000
40000
20000
0
-400
-200
0
200
400
DetsimAna/fPDG_detsim

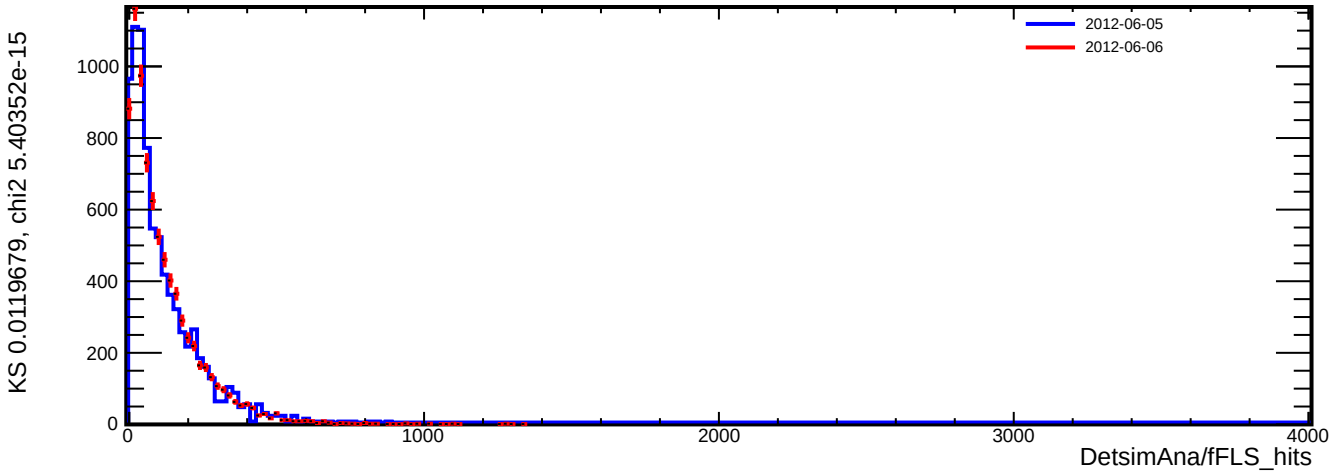

After Detsim
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-400
-200
0
200
400
DetsimAna/fPDG_detsim

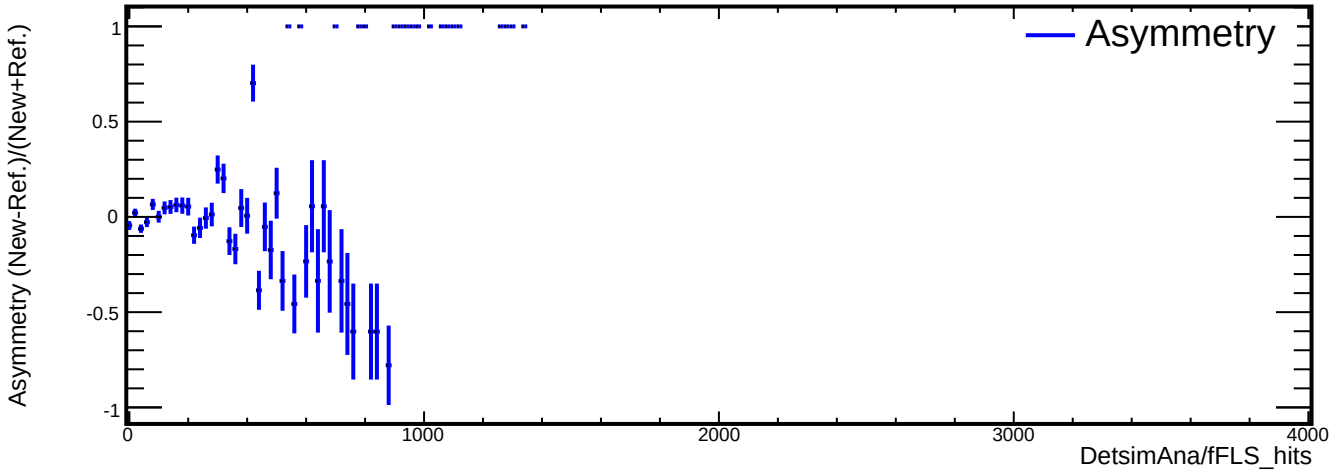

After Detsim
KS 5.30291e-07, chi2 2.69104e-21
2012-06-05
2012-06-06
1000
800
600
400
200
0
0
100
200
300
400
500
DetsimAna/fNParticles_detsim

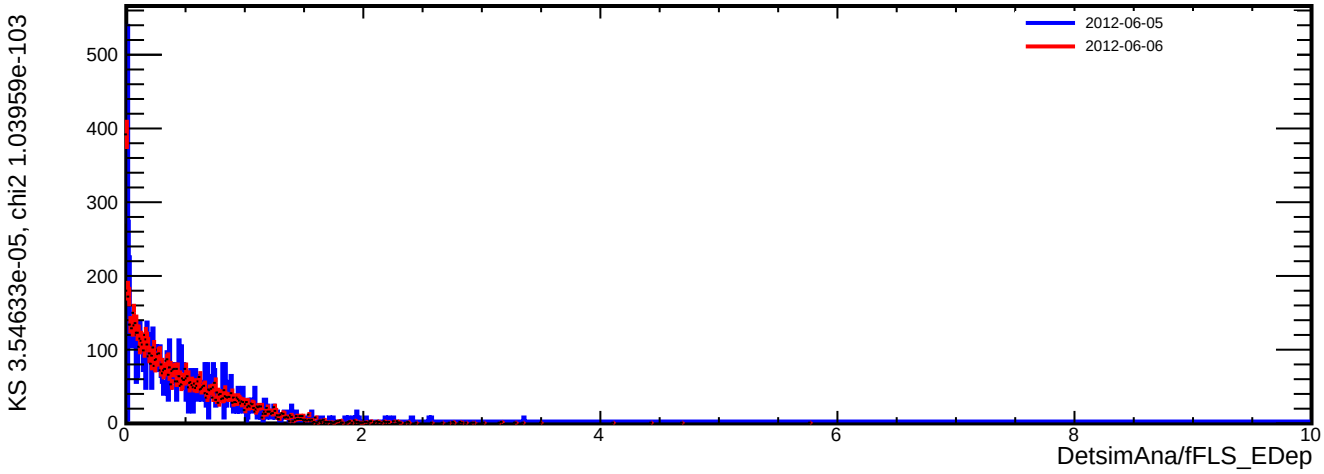

After Detsim
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
100
200
300
400
500
DetsimAna/fNParticles_detsim

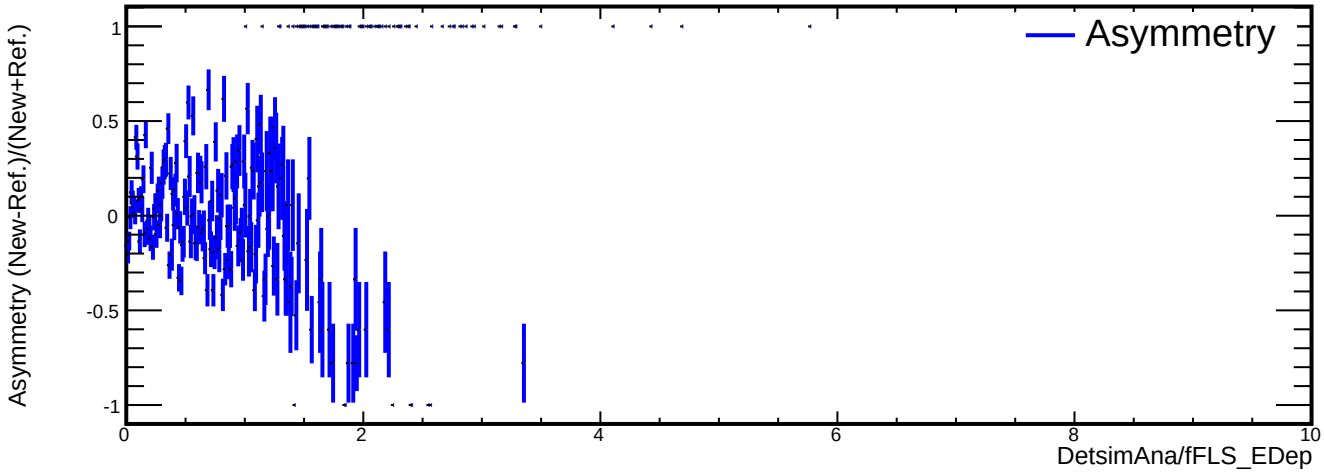

After MCTruth
KS 0.375969, chi2 5.63646e-21
2012-06-05
2012-06-06
2000
1500
1000
500
0
0
10
20
30
40
50
DetsimAna/fNParticles_truth

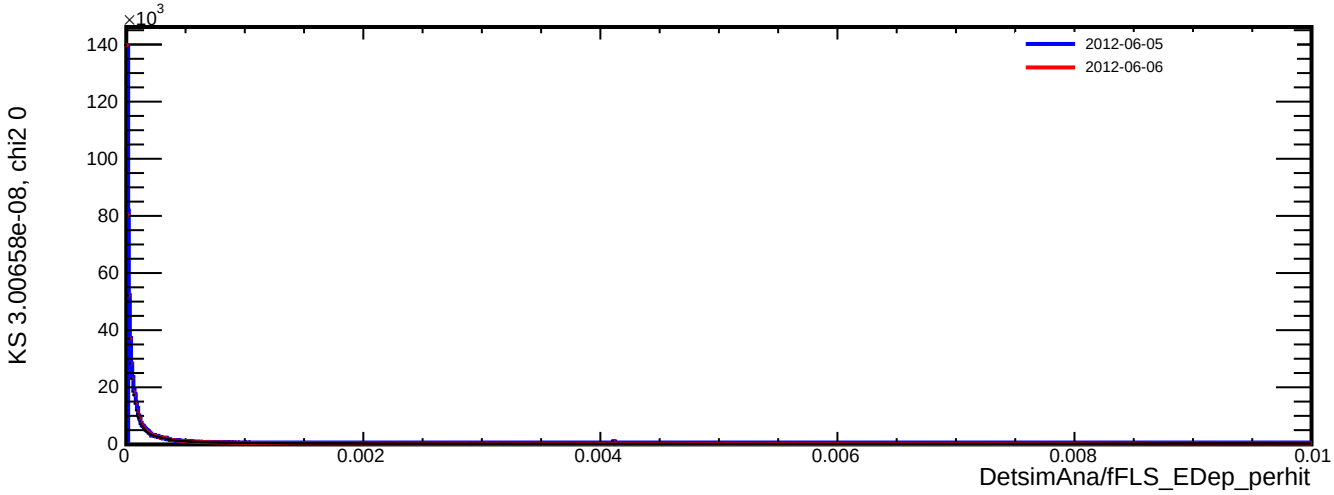

After MCTruth
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
10
20
30
40
50
DetsimAna/fNParticles_truth

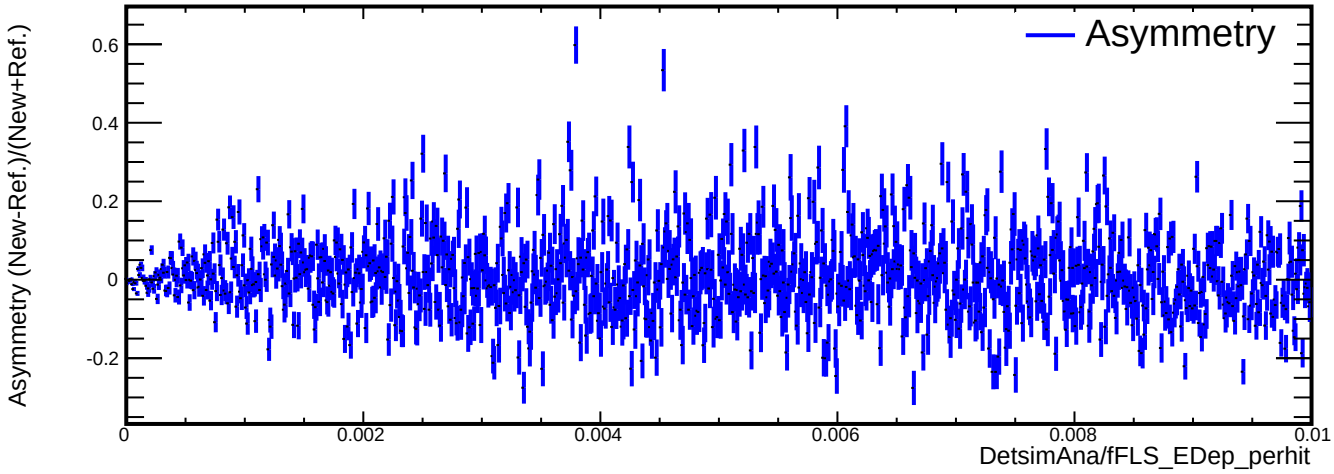

KS 0.0119679, chi2 5.40352e-15
2012-06-05
2012-06-06
1000
800
600
400
200
0
0
1000
2000
3000
4000
DetsimAna/fFLS_hits

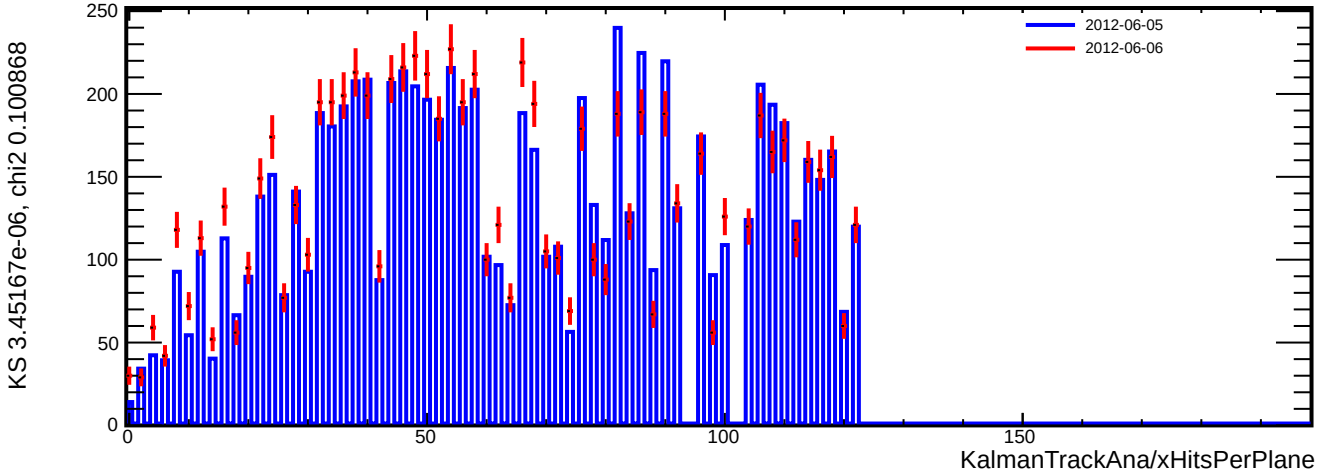

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
1000
2000
3000
4000
DetsimAna/fFLS_hits

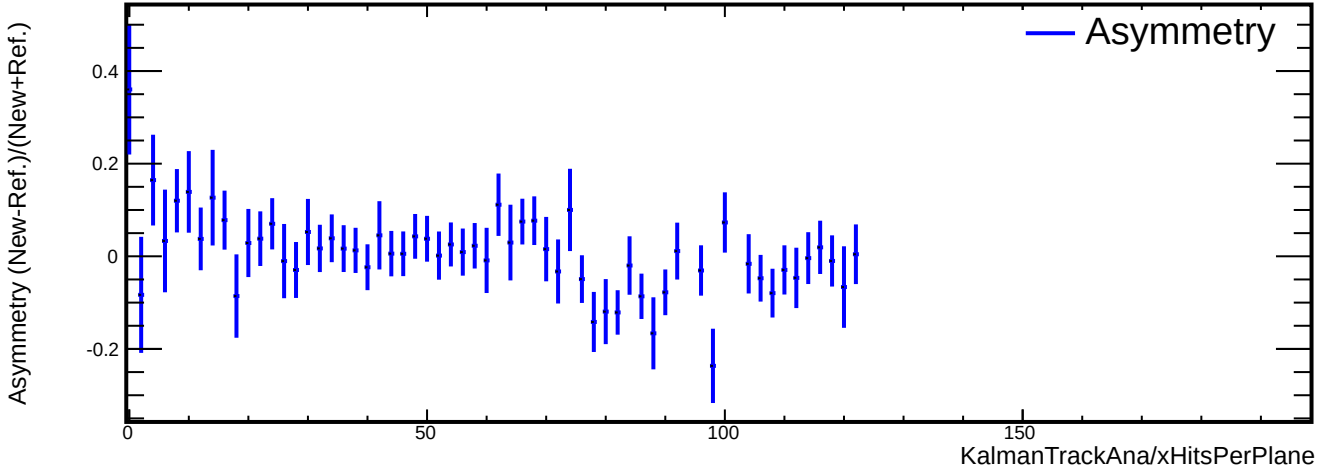

KS 3.54633e-05, chi2 1.03959e-103
2012-06-05
2012-06-06
500
400
300
200
100
0
0
2
4
6
8
10
DetsimAna/fFLS_EDep

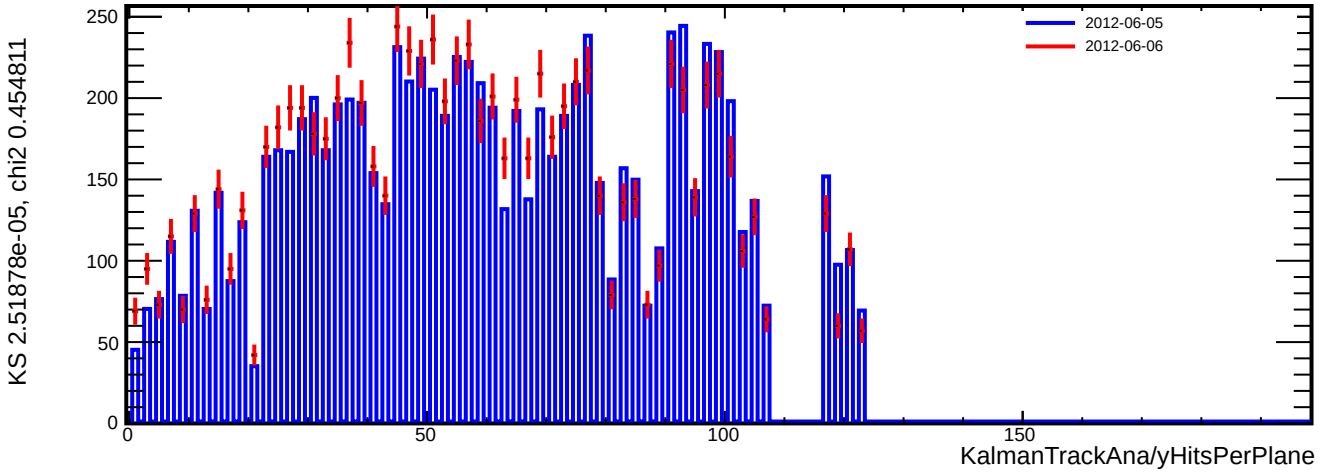

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
2
4
6
8
10
DetsimAna/fFLS_EDep

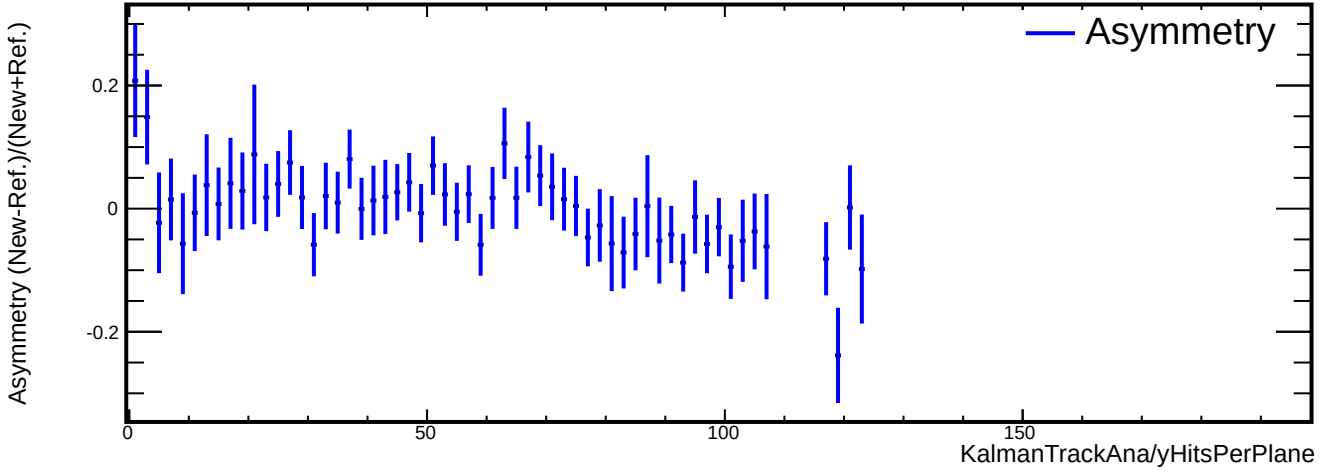

×10^3
140
120
100
80
60
40
20
0
0
0.002
0.004
0.006
0.008
0.01
KS 3.00658e-08, chi2 0
DetsimAna/fFLS_EDep_perhit
2012-06-05
2012-06-06

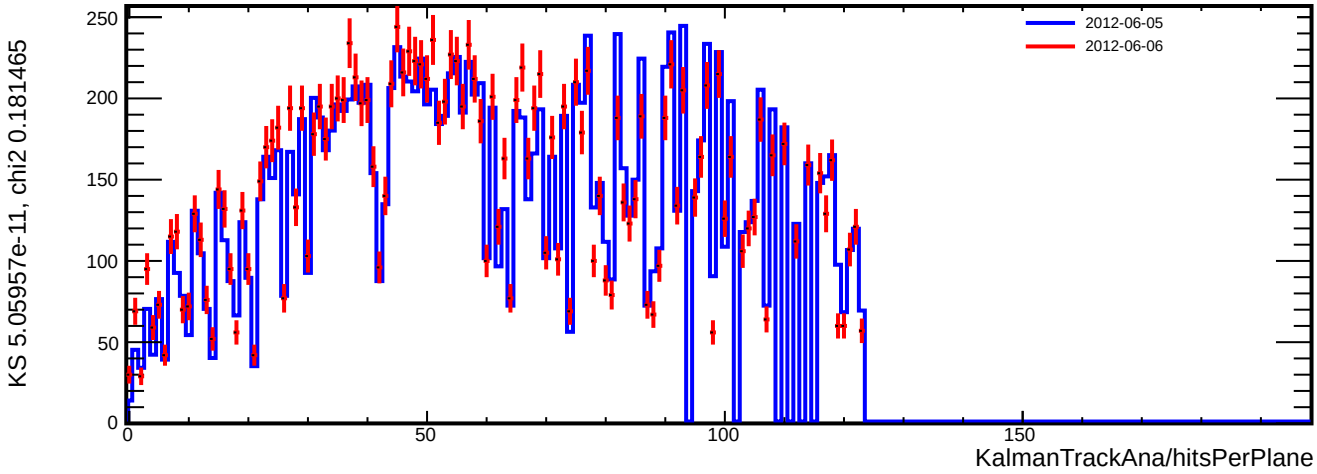

0.6
0.4
0.2
0
-0.2
0
0.002
0.004
0.006
0.008
0.01
Asymmetry (New-Ref.)/(New+Ref.)
DetsimAna/fFLS_EDep_perhit
Asymmetry

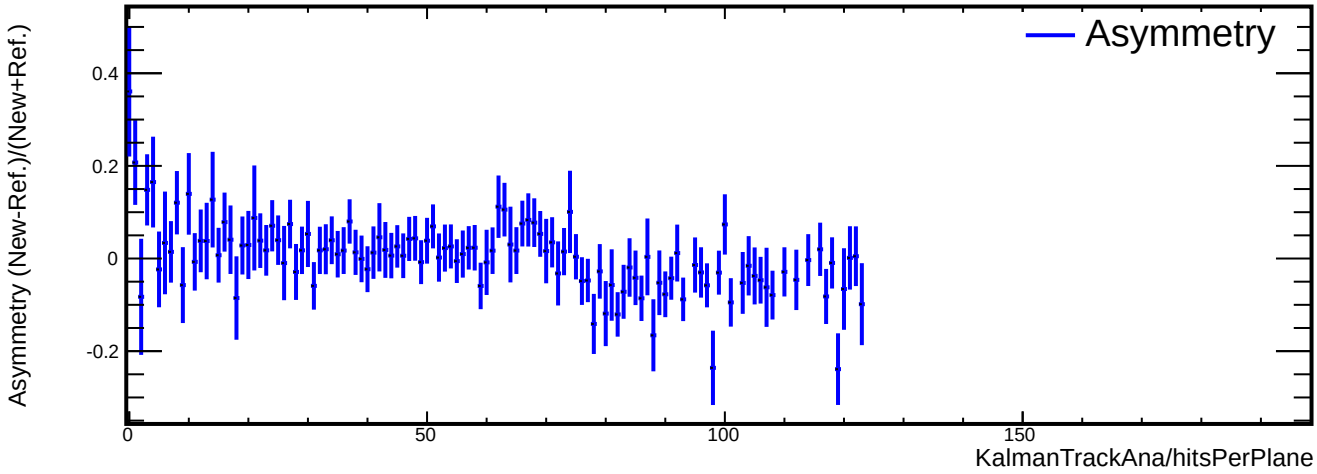

KS 3.45167e-06, chi2 0.100868
2012-06-05
2012-06-06
KalmanTrackAna/xHitsPerPlane

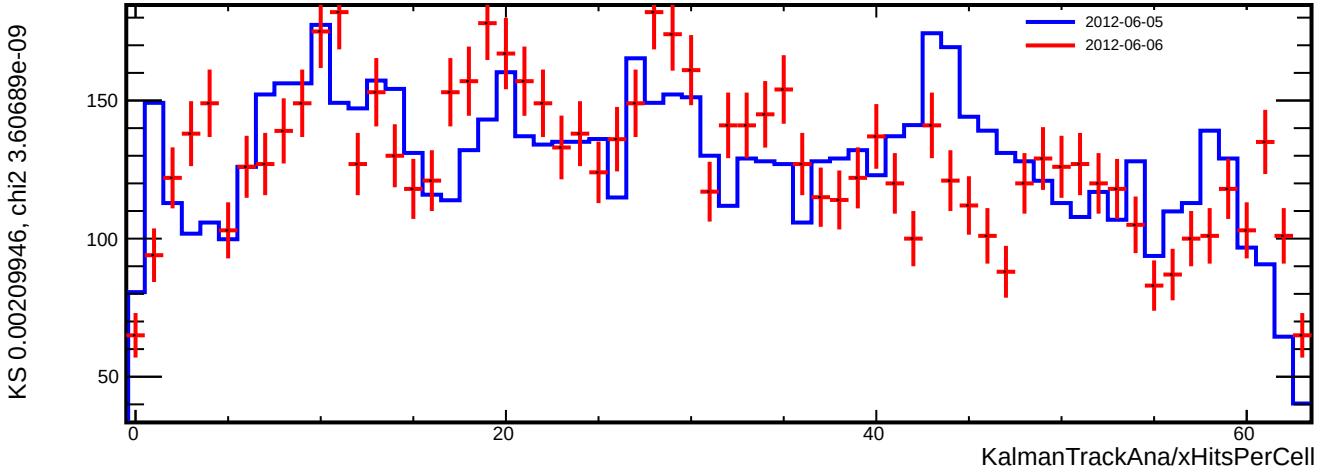

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/xHitsPerPlane

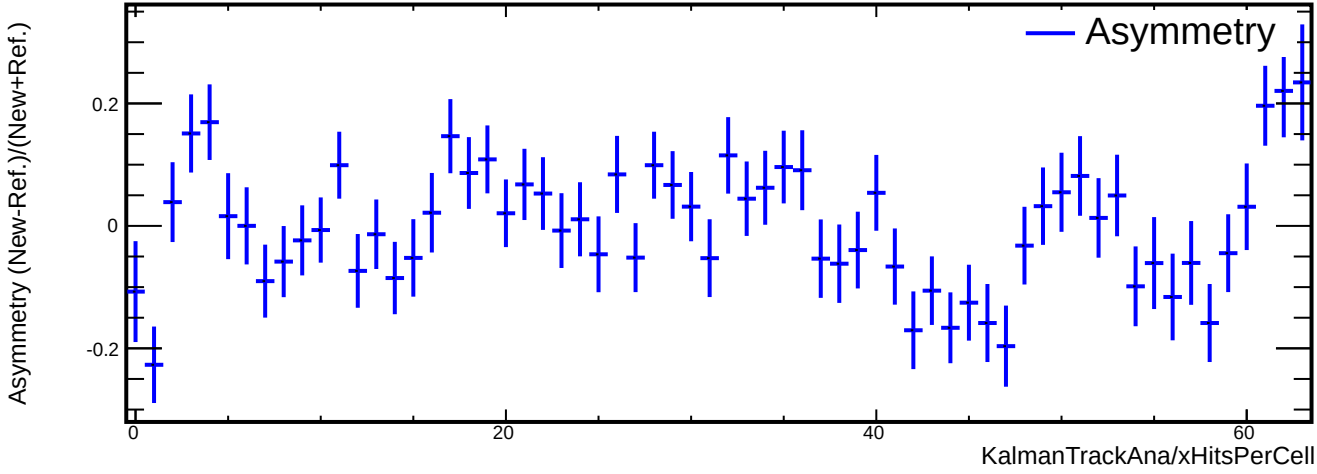

KS 2.51878e-05, chi2 0.454811
2012-06-05
2012-06-06
KalmanTrackAna/yHitsPerPlane

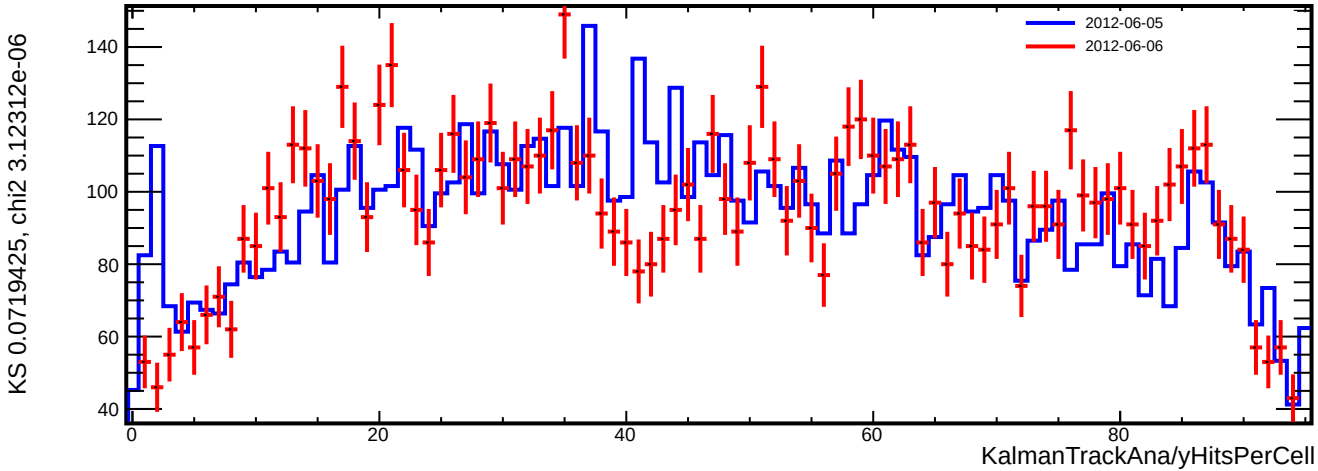

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/yHitsPerPlane

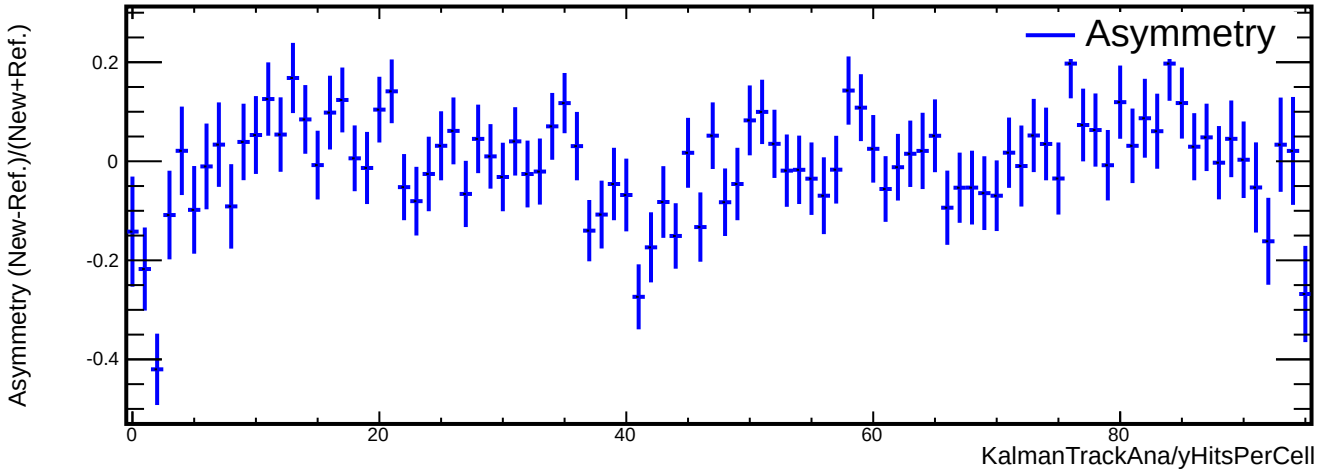

KS 5.05957e-11, chi2 0.181465
2012-06-05
2012-06-06
KalmanTrackAna/hitsPerPlane

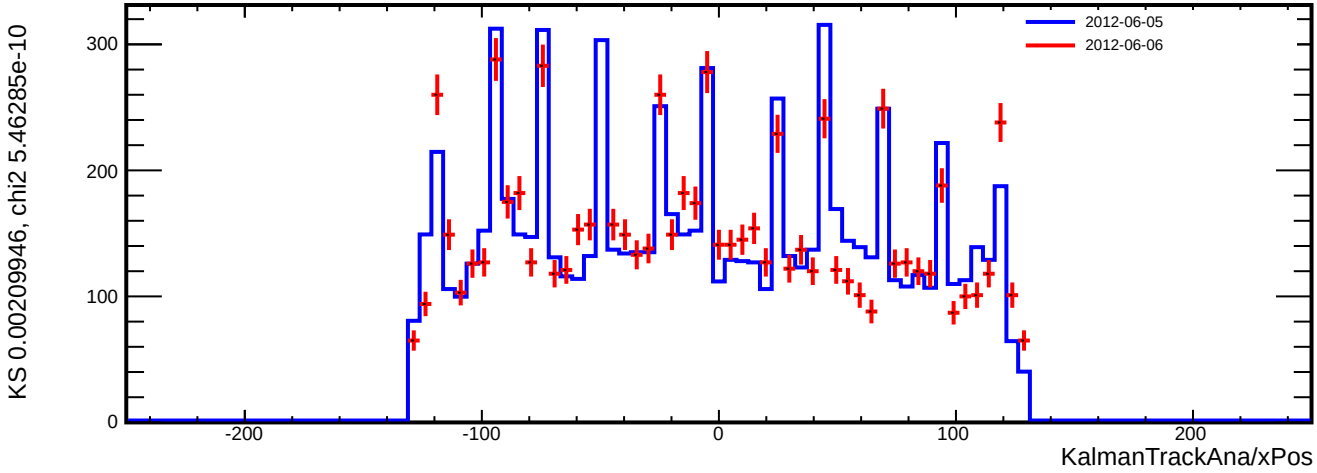

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
KalmanTrackAna/hitsPerPlane

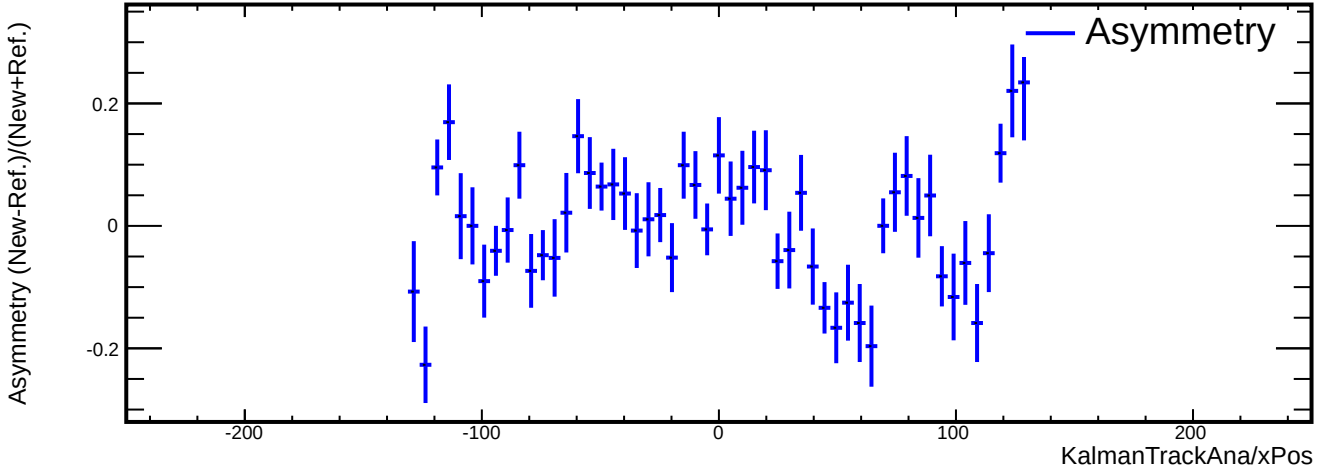

KS 0.00209946, chi2 3.60689e-09
2012-06-05
2012-06-06
150
100
50
0
20
40
60
KalmanTrackAna/xHitsPerCell

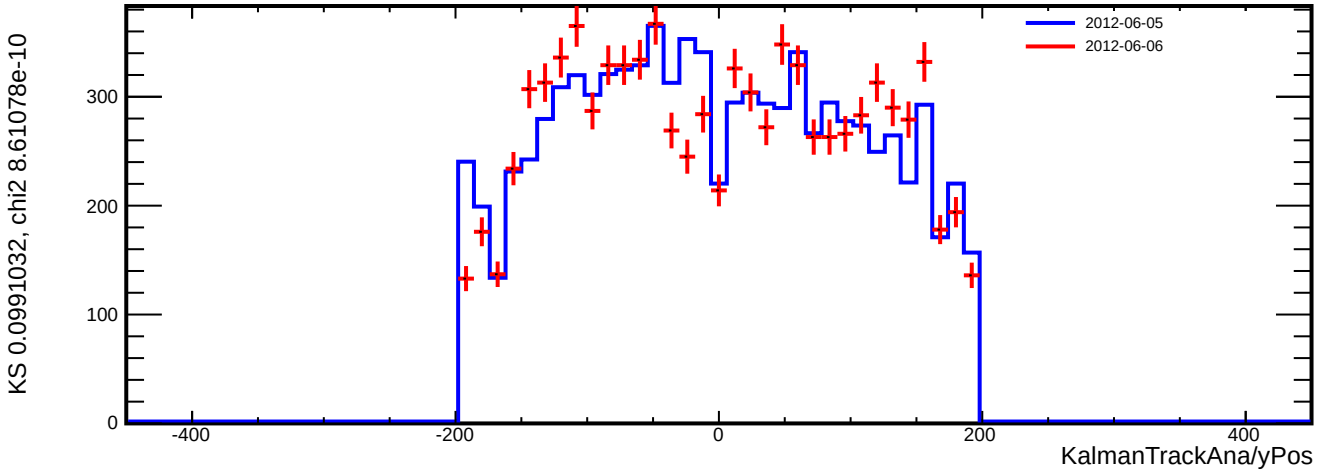

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0
-0.2
0
20
40
60
KalmanTrackAna/xHitsPerCell

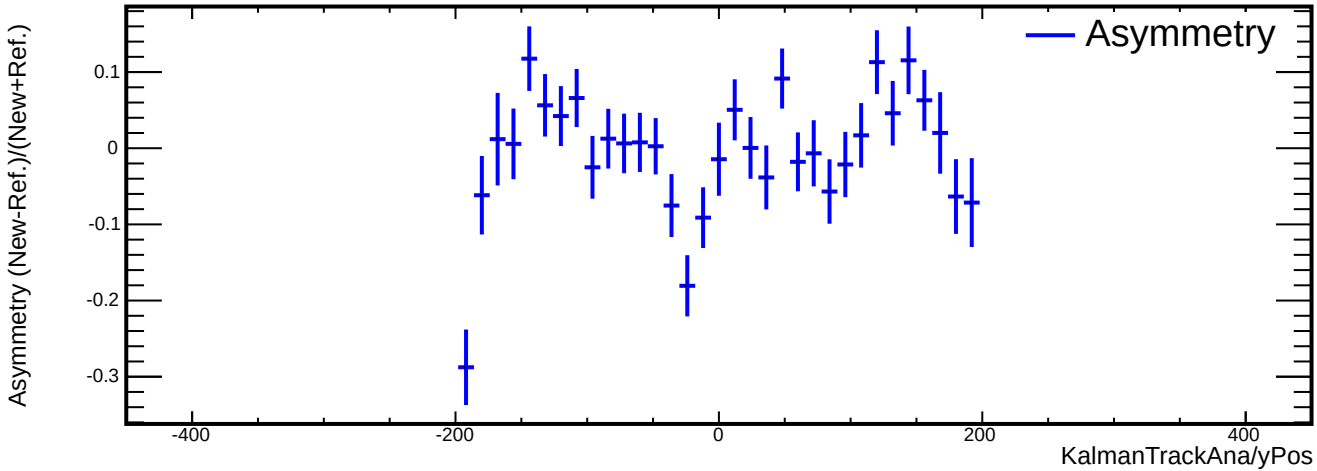

KS 0.0719425, chi2 3.12312e-06
2012-06-05
2012-06-06
140
120
100
80
60
40
0
20
40
60
80
KalmanTrackAna/yHitsPerCell

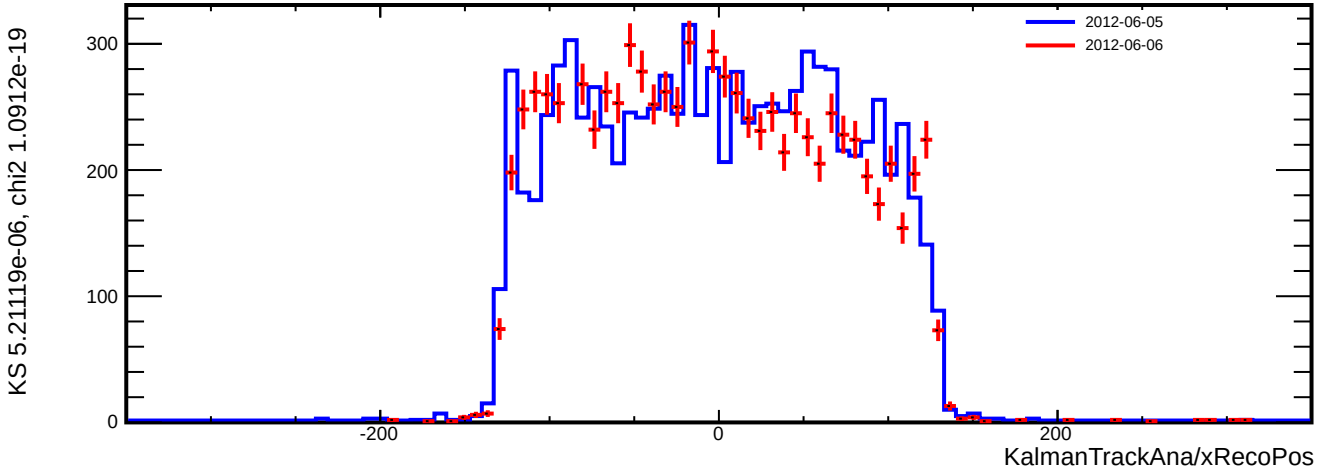

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0
-0.2
-0.4
0
20
40
60
80
KalmanTrackAna/yHitsPerCell

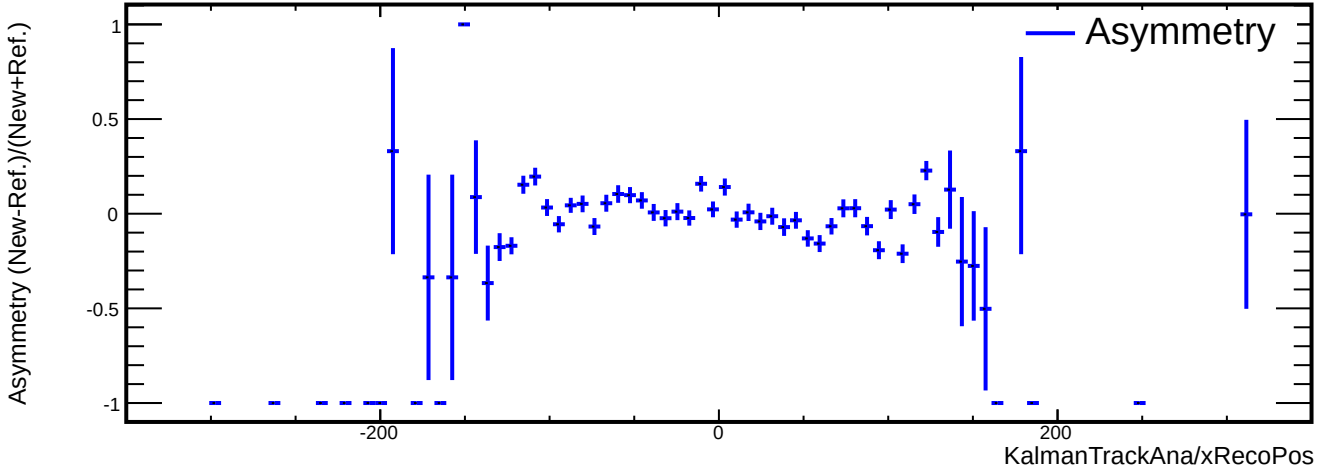

KS 0.00209946, chi2 5.46285e-10
2012-06-05
2012-06-06
300
200
100
0
-200
-100
0
100
200
KalmanTrackAna/xPos

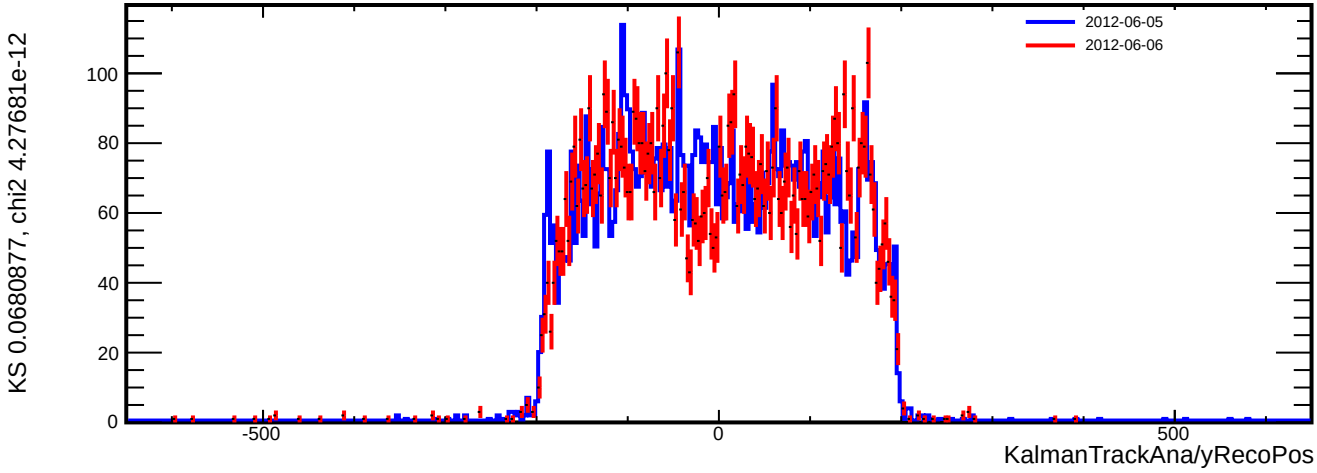

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.2
0
-0.2
-200
-100
0
100
200
KalmanTrackAna/xPos

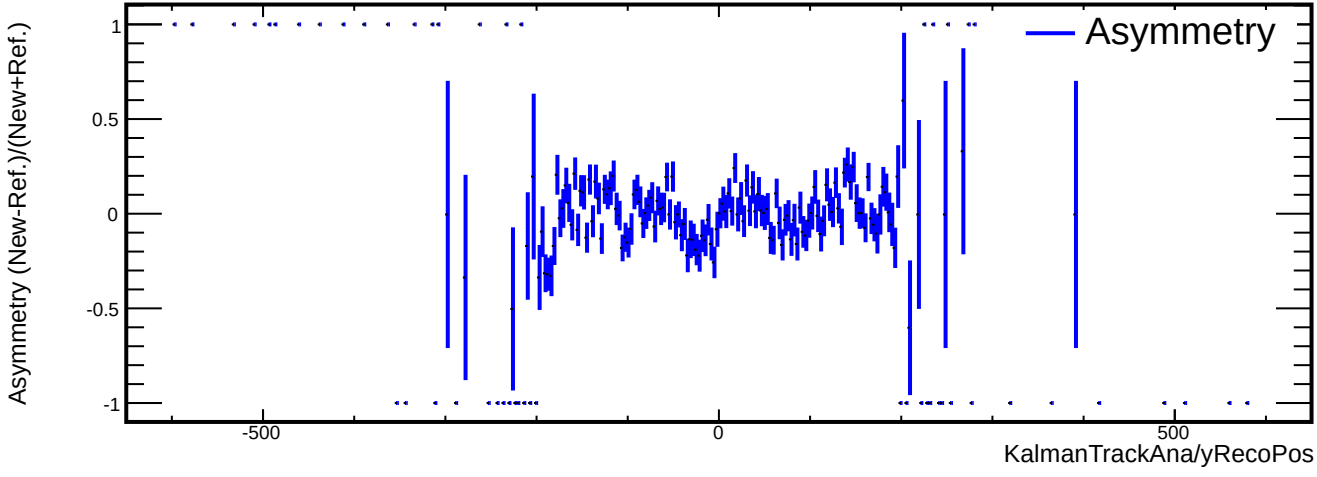

KS 0.0991032, chi2 8.61078e-10
2012-06-05
2012-06-06
300
200
100
0
-400
-200
0
200
400
KalmanTrackAna/yPos

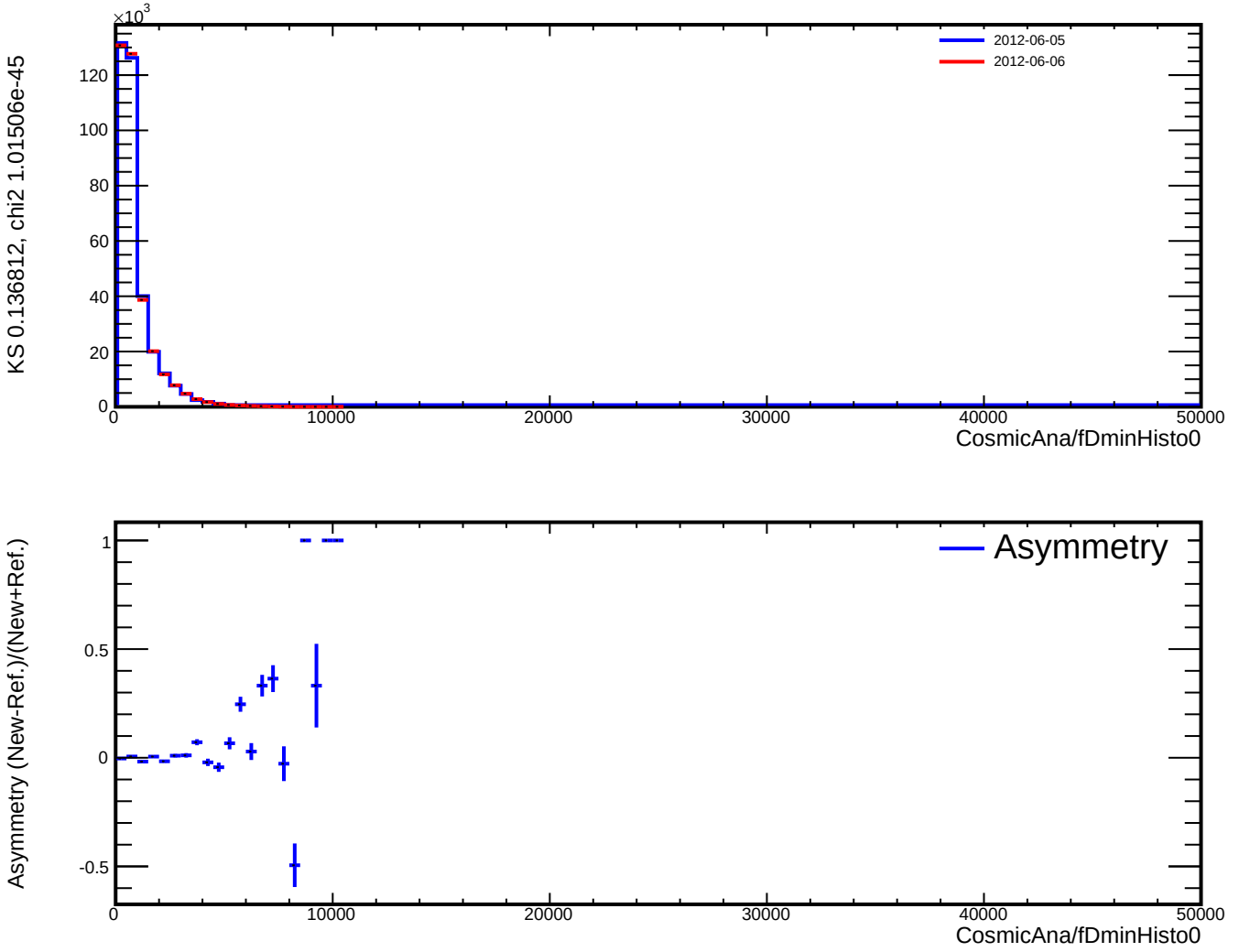

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.1
0
-0.1
-0.2
-0.3
-400
-200
0
200
400
KalmanTrackAna/yPos

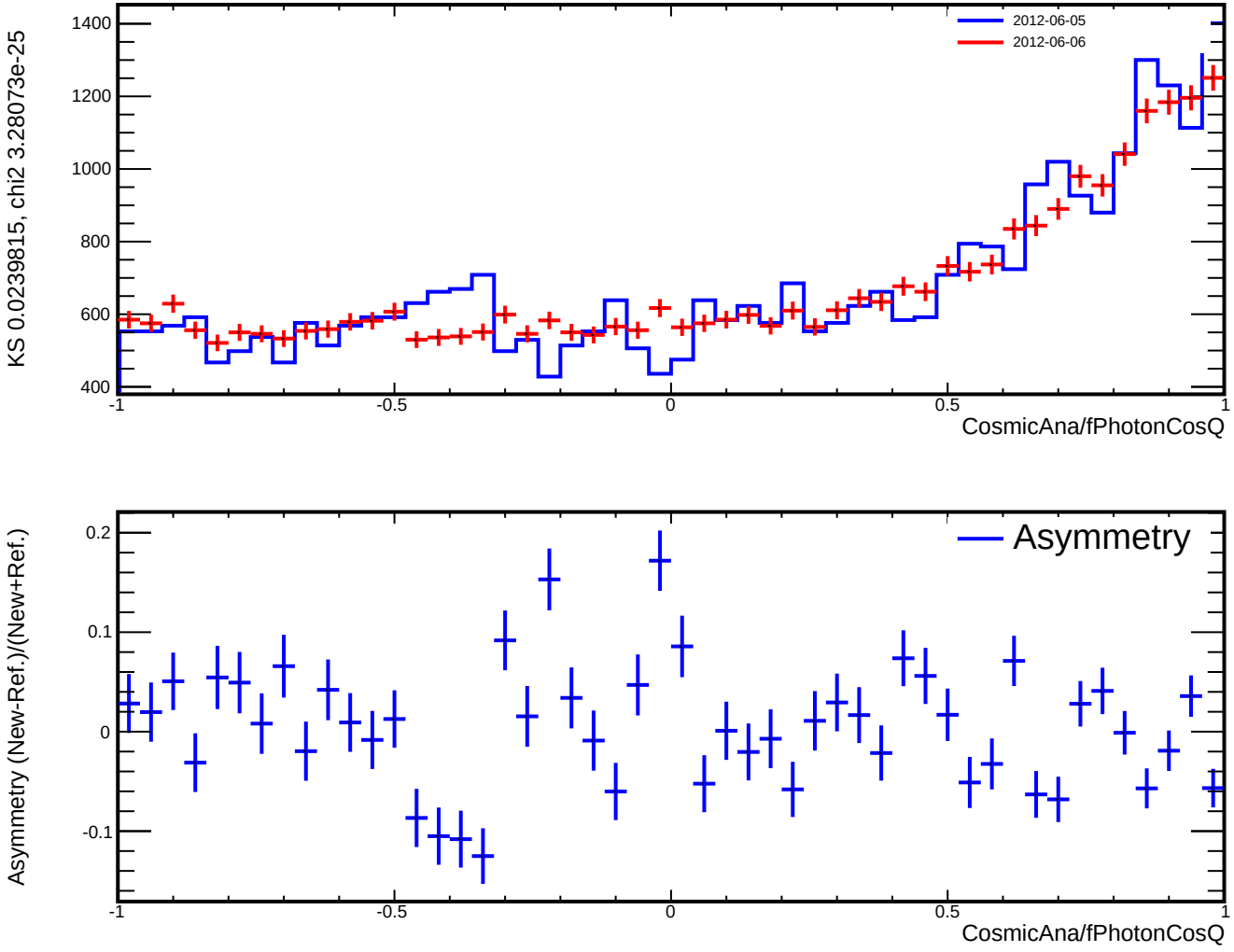

KS 5.21119e-06, chi2 1.0912e-19
2012-06-05
2012-06-06
300
200
100
0
-200
0
200
KalmanTrackAna/xRecoPos

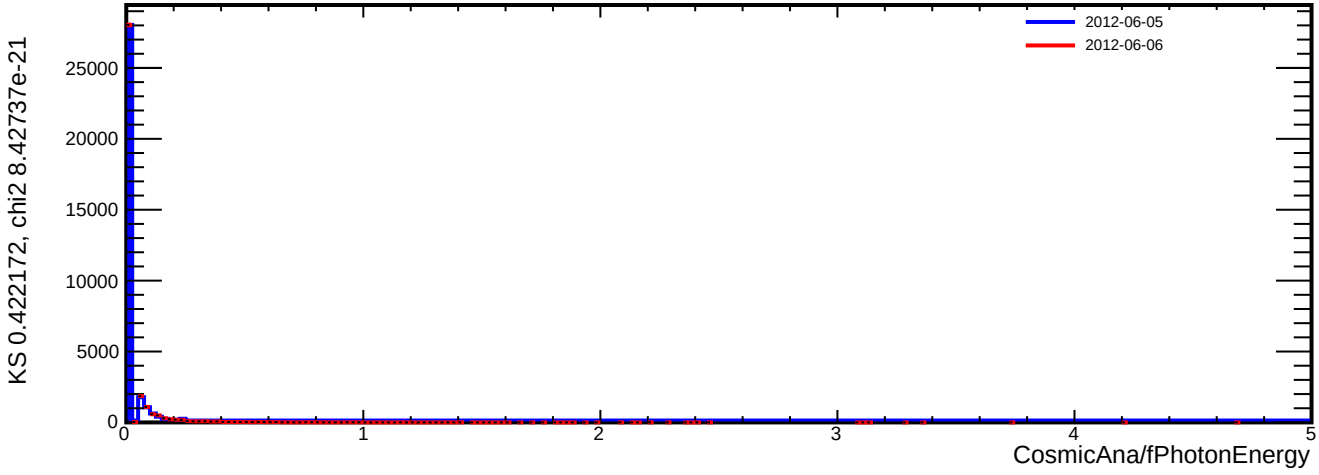

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
0
200
KalmanTrackAna/xRecoPos

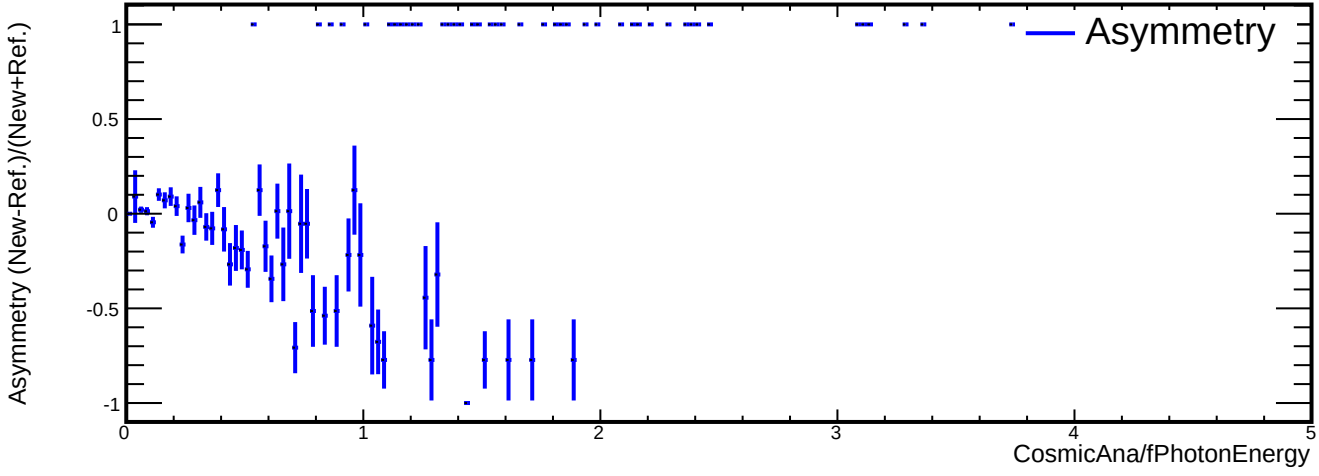

KS 0.0680877, chi2 4.27681e-12
2012-06-05
2012-06-06
100
80
60
40
20
0
-500
0
500
KalmanTrackAna/yRecoPos

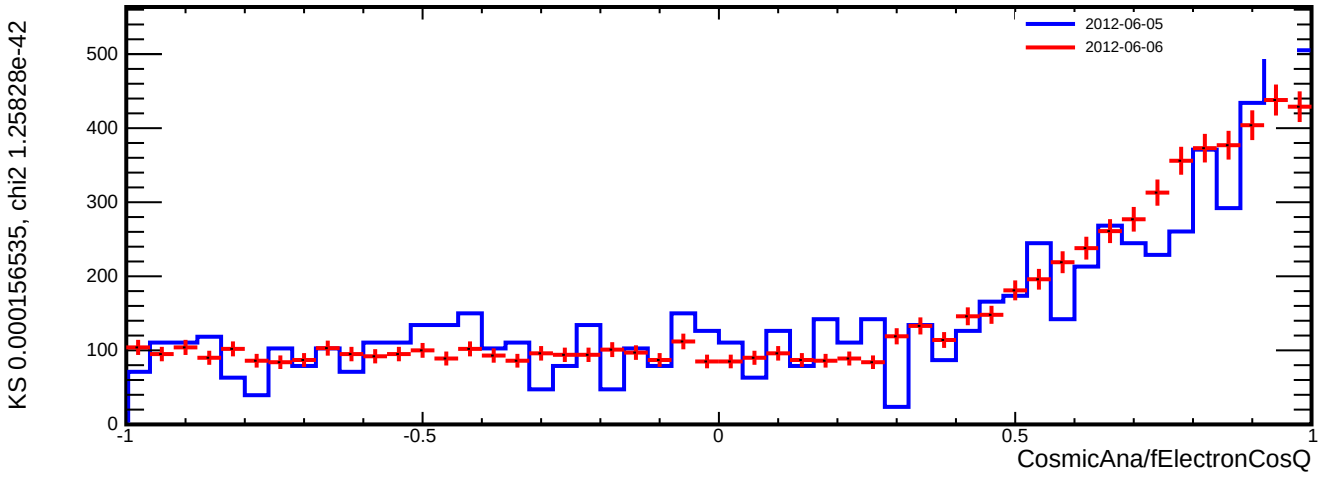

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-500
0
500
KalmanTrackAna/yRecoPos

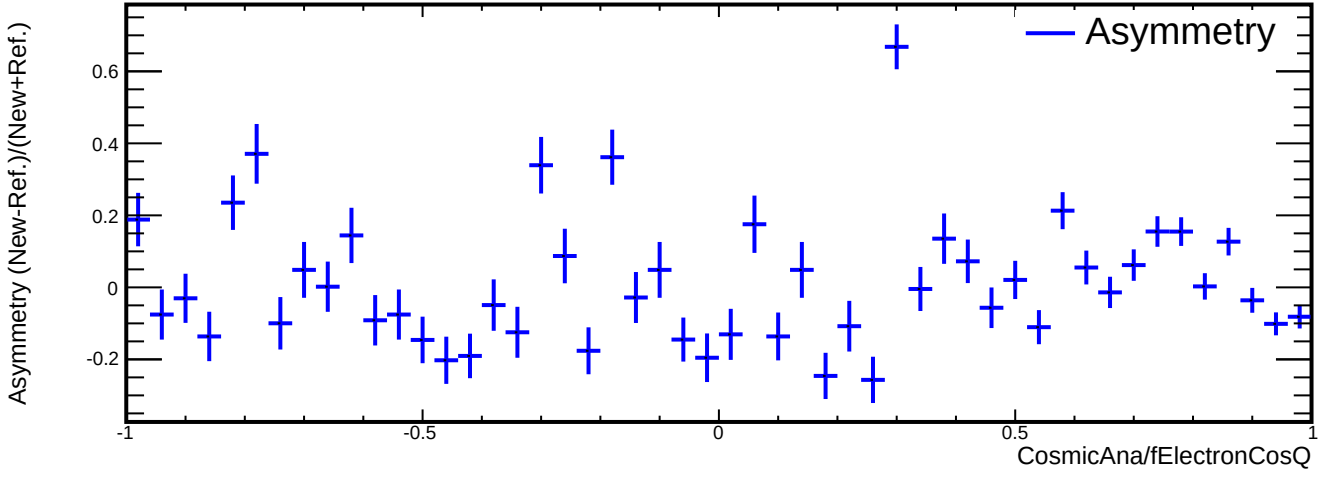

×10^3
120
100
80
60
40
20
0
0
10000
20000
30000
40000
50000
KS 0.136812, chi2 1.01506e-45
CosmicAna/fDminHisto0
2012-06-05
2012-06-06
1
0.5
0
-0.5
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry

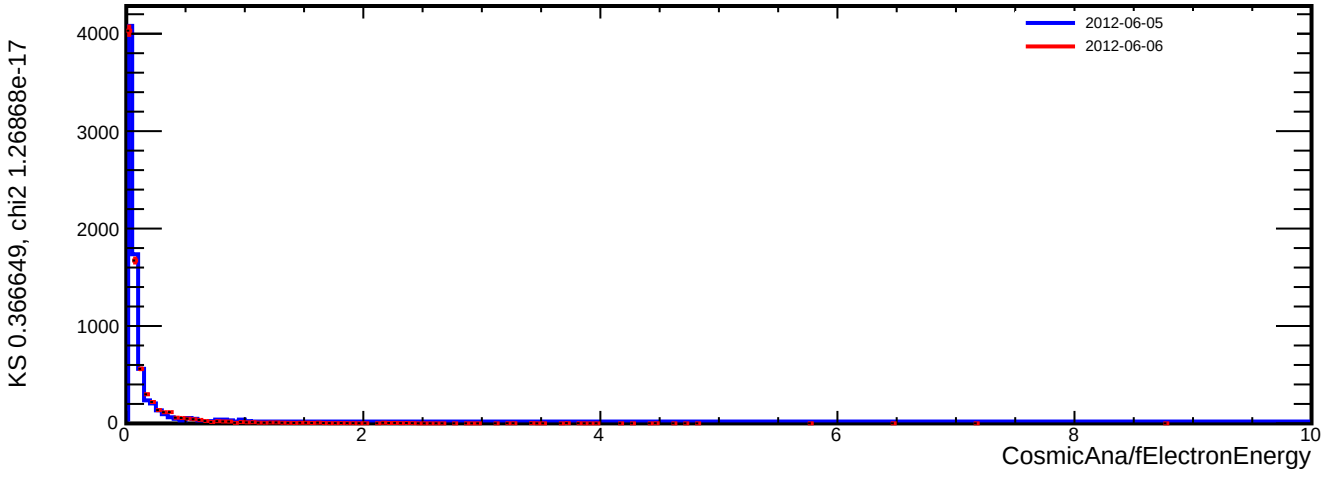

KS 0.0239815, chi2 3.28073e-25
2012-06-05
2012-06-06
CosmicAna/fPhotonCosQ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
CosmicAna/fPhotonCosQ

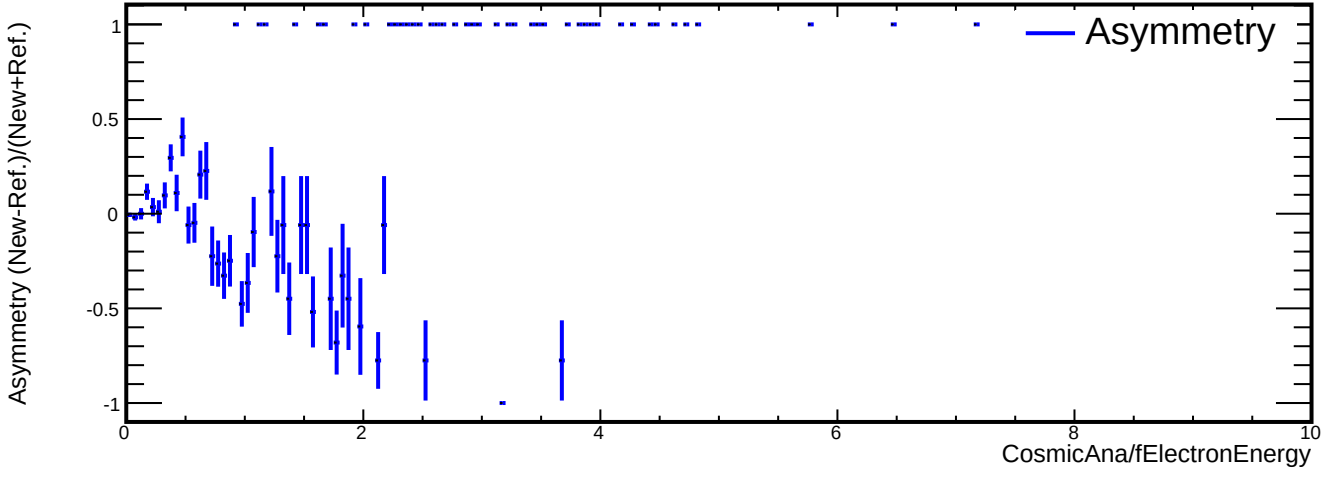

KS 0.422172, chi2 8.42737e-21
2012-06-05
2012-06-06
25000
20000
15000
10000
5000
0
0
1
2
3
4
5
CosmicAna/fPhotonEnergy

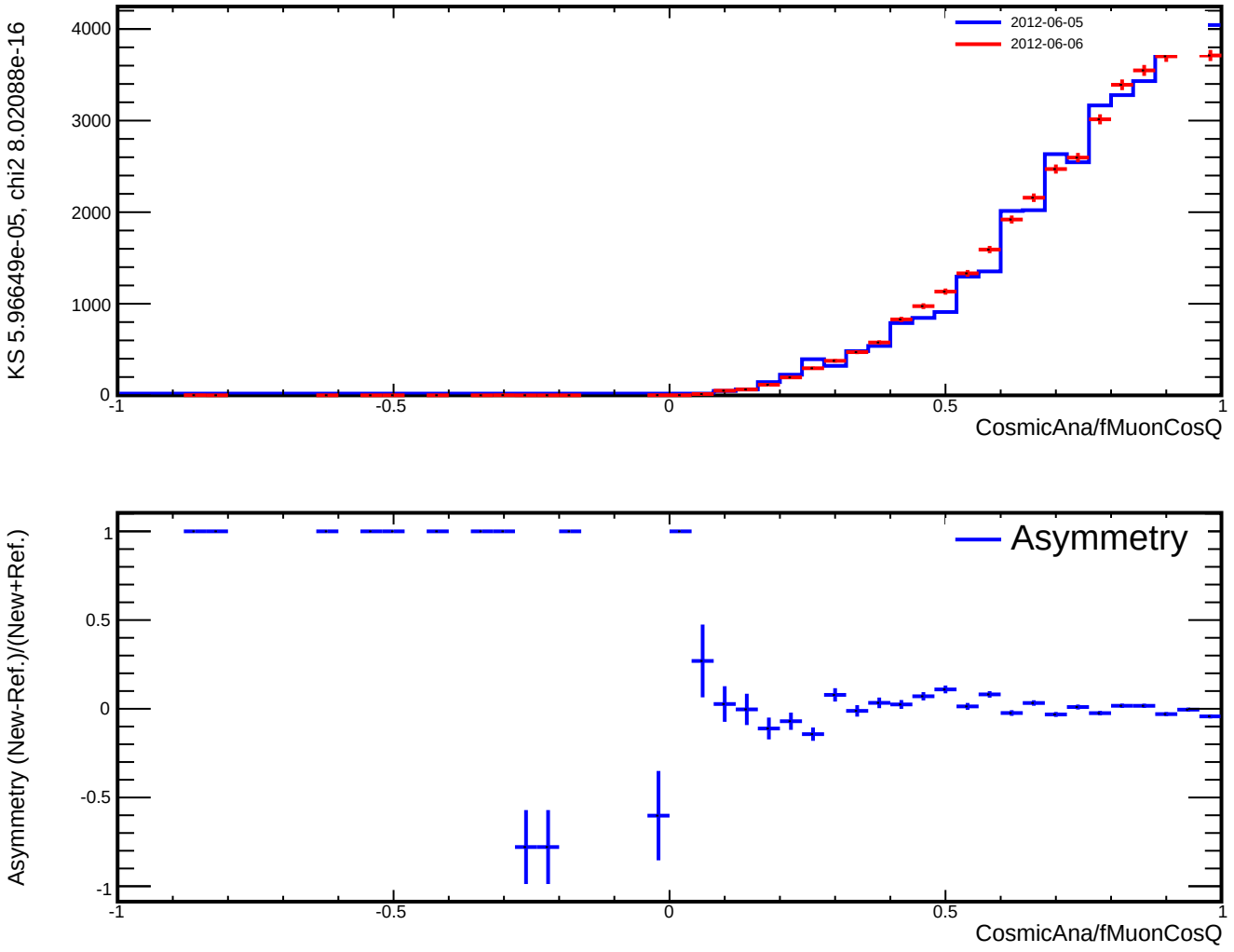

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
1
2
3
4
5
CosmicAna/fPhotonEnergy

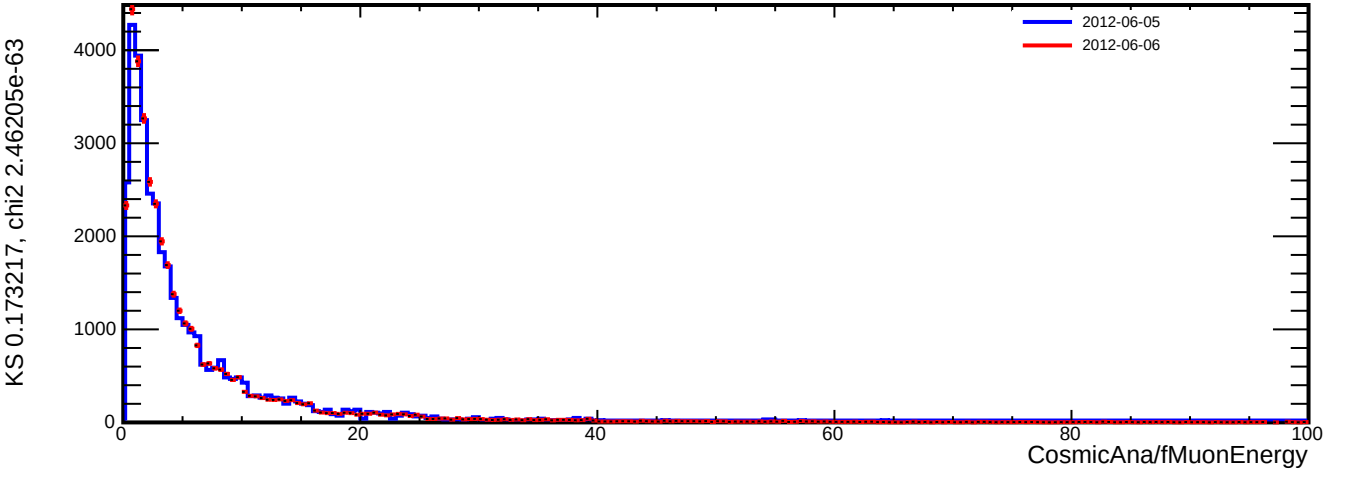

KS 0.000156535, chi2 1.25828e-42
2012-06-05
2012-06-06
500
400
300
200
100
0
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ

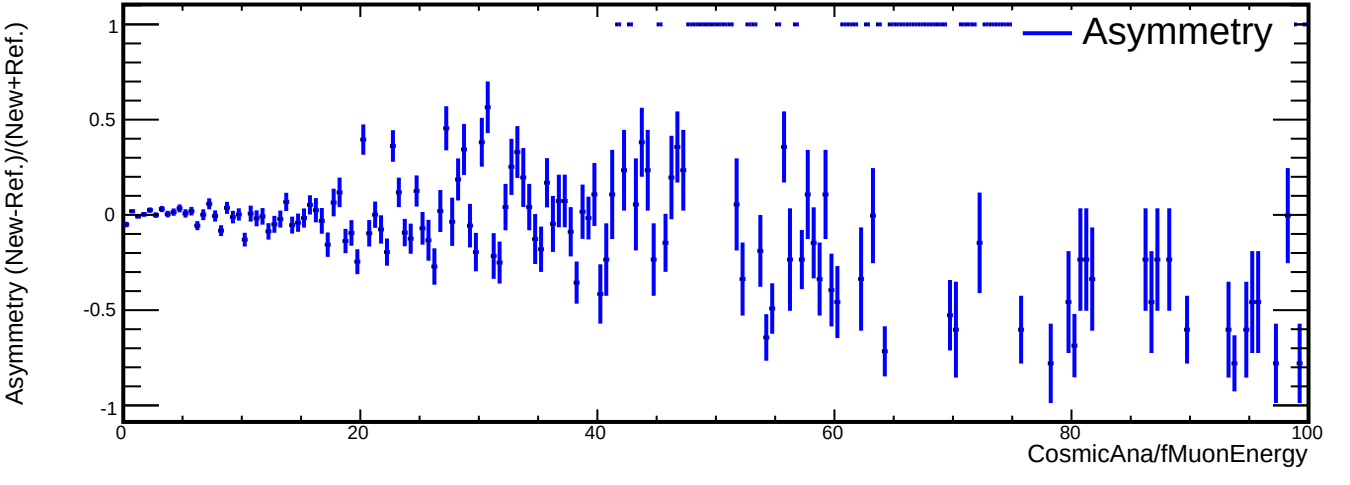

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.6
0.4
0.2
0
-0.2
-1
-0.5
0
0.5
1
CosmicAna/fElectronCosQ

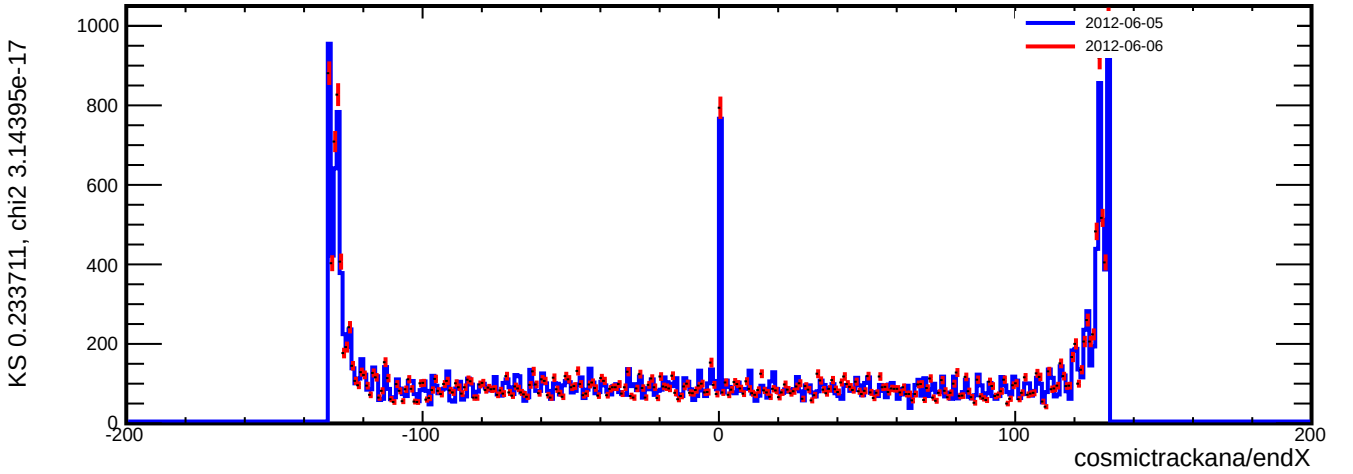

KS 0.366649, chi2 1.26868e-17
2012-06-05
2012-06-06
4000
3000
2000
1000
0
0
2
4
6
8
10
CosmicAna/fElectronEnergy

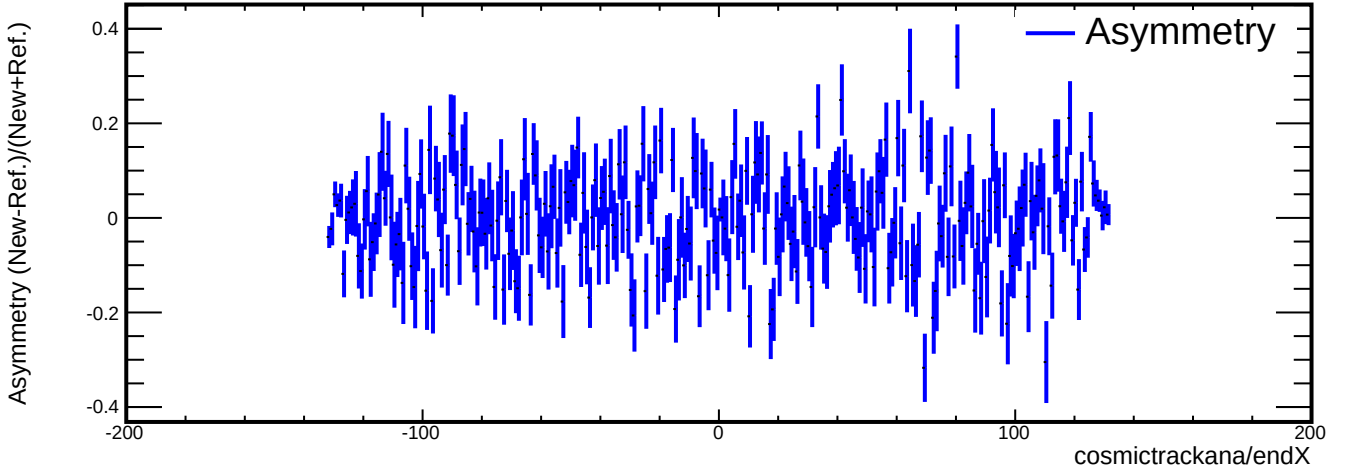

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
2
4
6
8
10
CosmicAna/fElectronEnergy

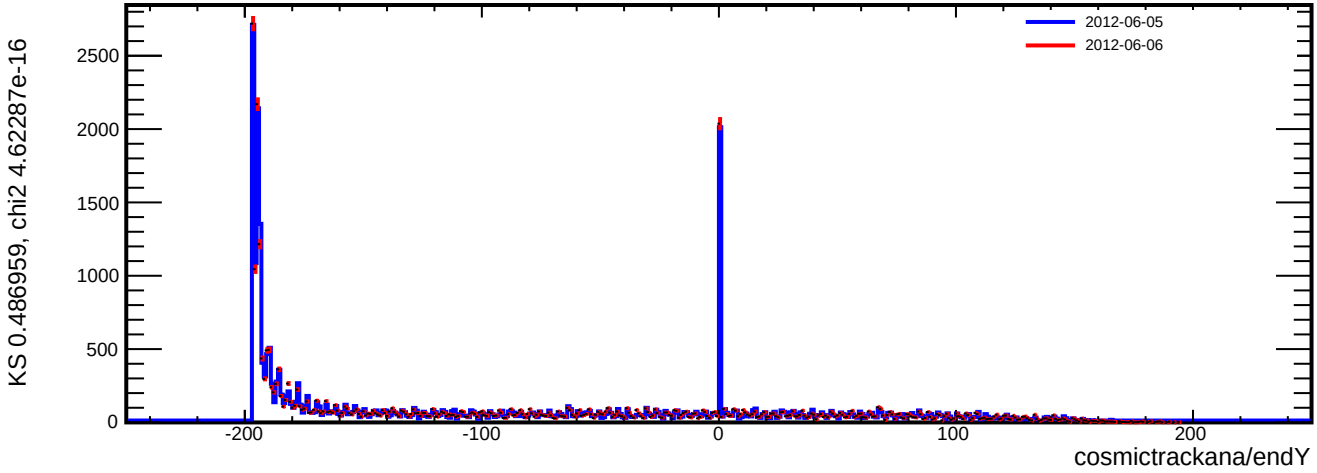

KS 5.96649e-05, chi2 8.02088e-16
2012-06-05
2012-06-06
CosmicAna/fMuonCosQ
Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
CosmicAna/fMuonCosQ

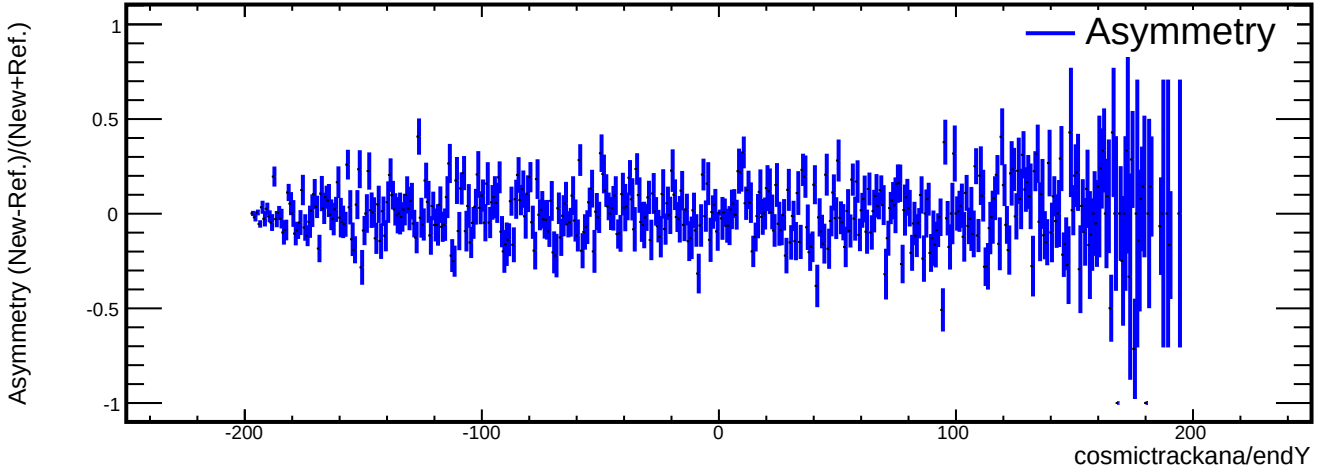

KS 0.173217, chi2 2.46205e-63
2012-06-05
2012-06-06
4000
3000
2000
1000
0
0
20
40
60
80
100
CosmicAna/fMuonEnergy

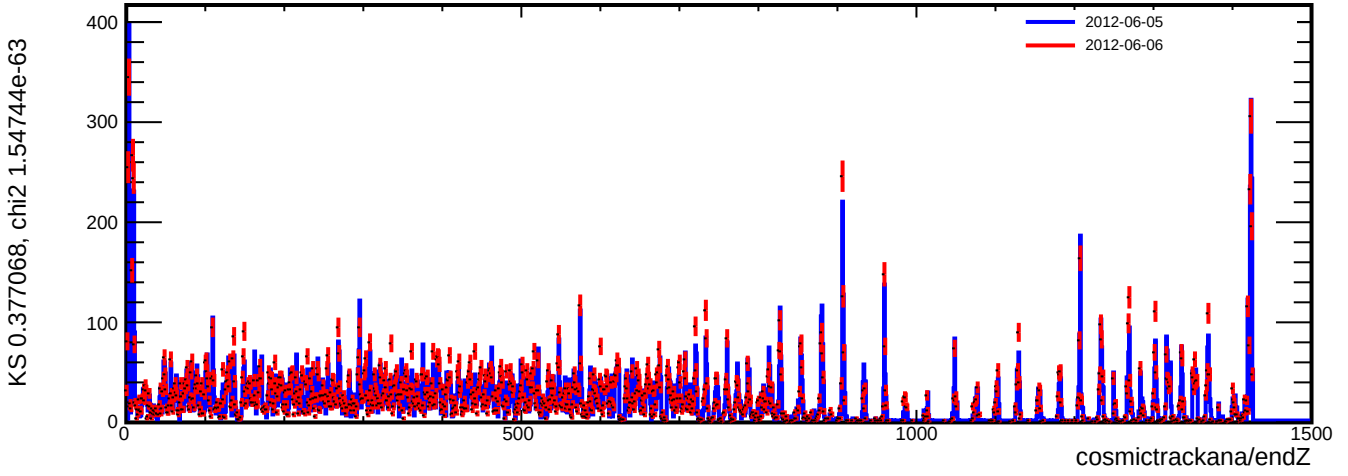

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
0
20
40
60
80
100
CosmicAna/fMuonEnergy

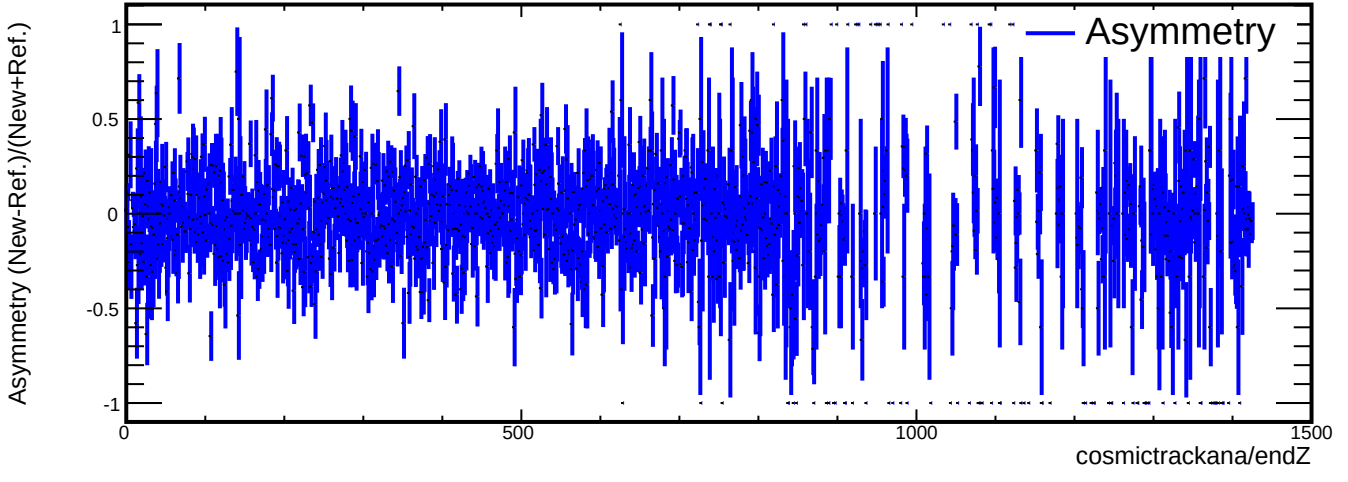

KS 0.233711, chi2 3.14395e-17
2012-06-05
2012-06-06
cosmictrackana/endX

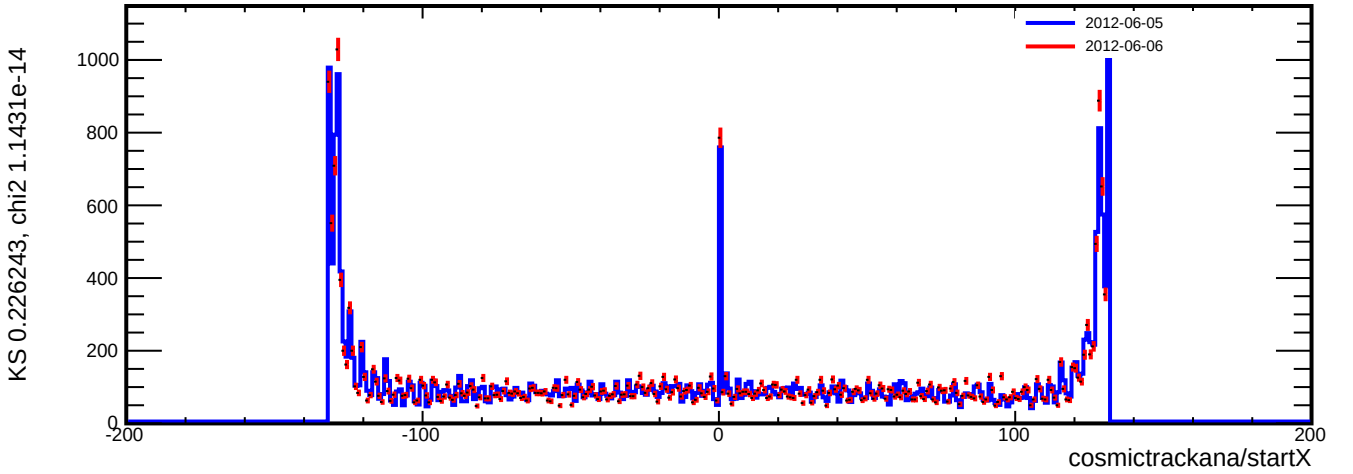

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
cosmictrackana/endX

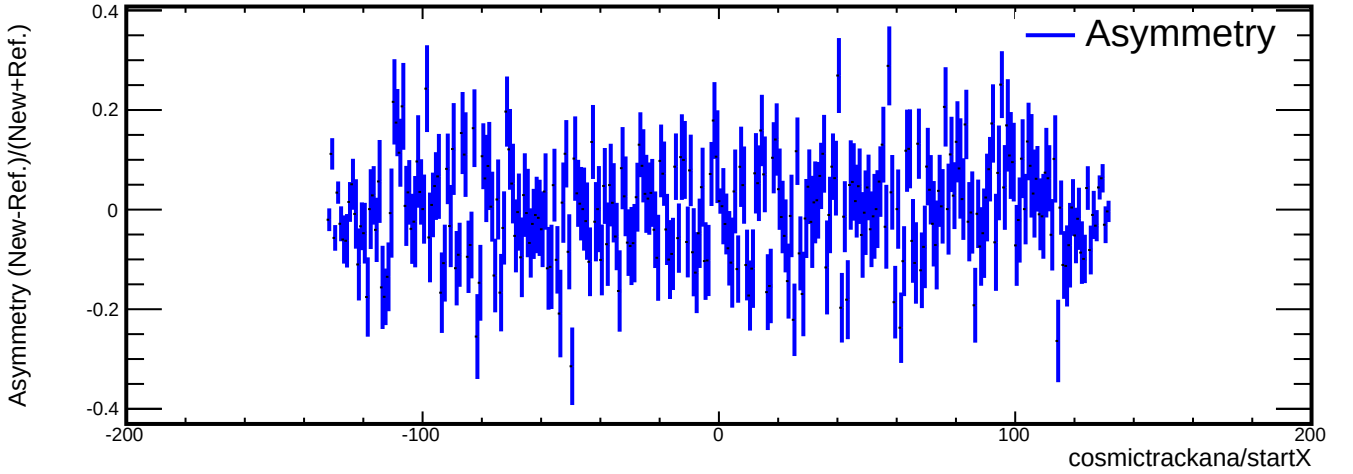

KS 0.486959, chi2 4.62287e-16
2012-06-05
2012-06-06
2500
2000
1500
1000
500
0
-200
-100
0
100
200
cosmictrackana/endY

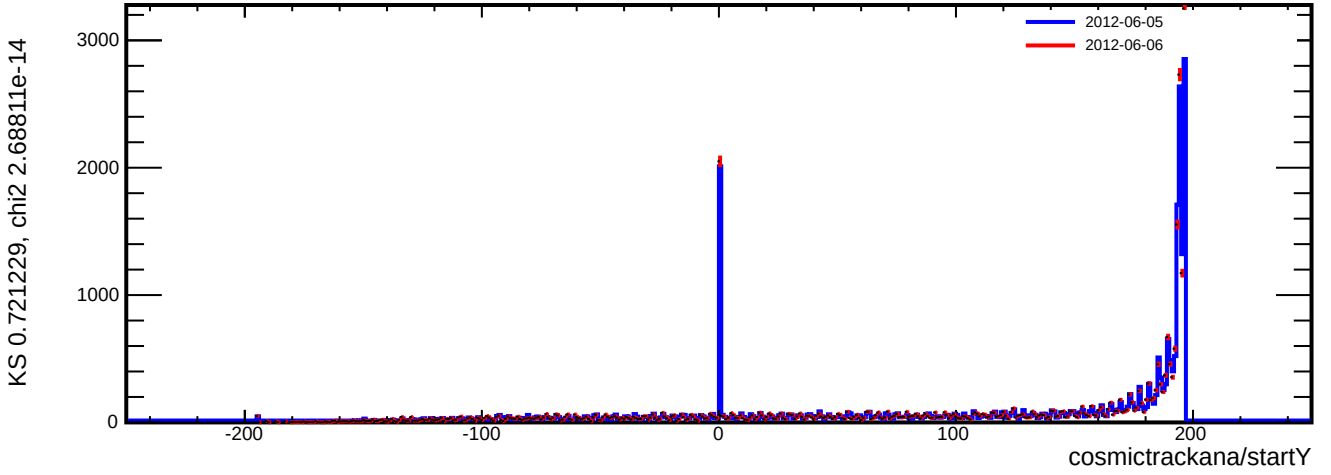

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/endY

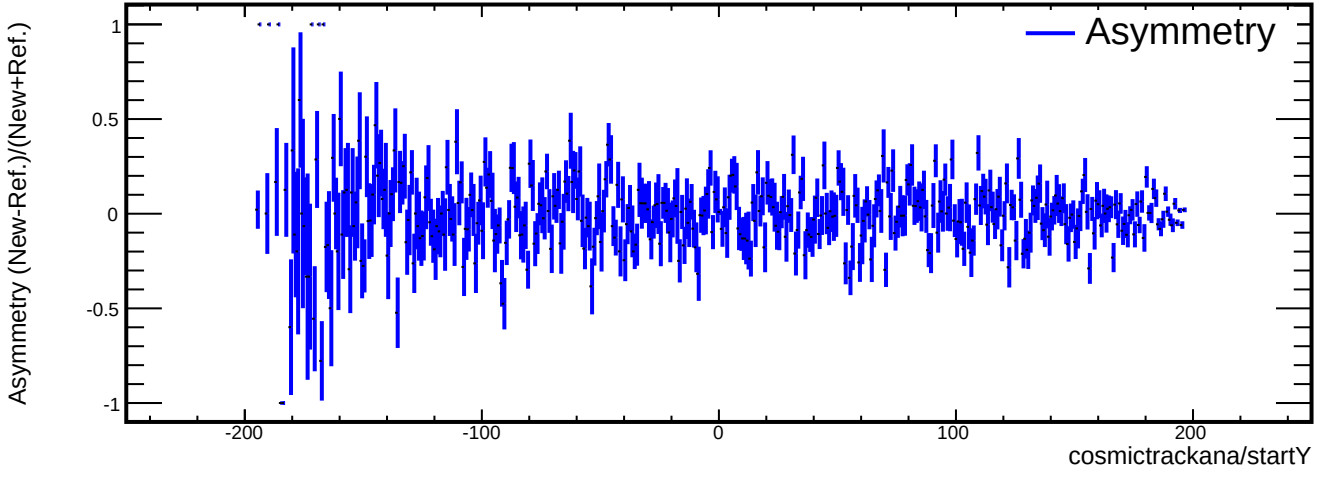

KS 0.377068, chi2 1.54744e-63
400
300
200
100
0
0
500
1000
1500
cosmictrackana/endZ
2012-06-05
2012-06-06

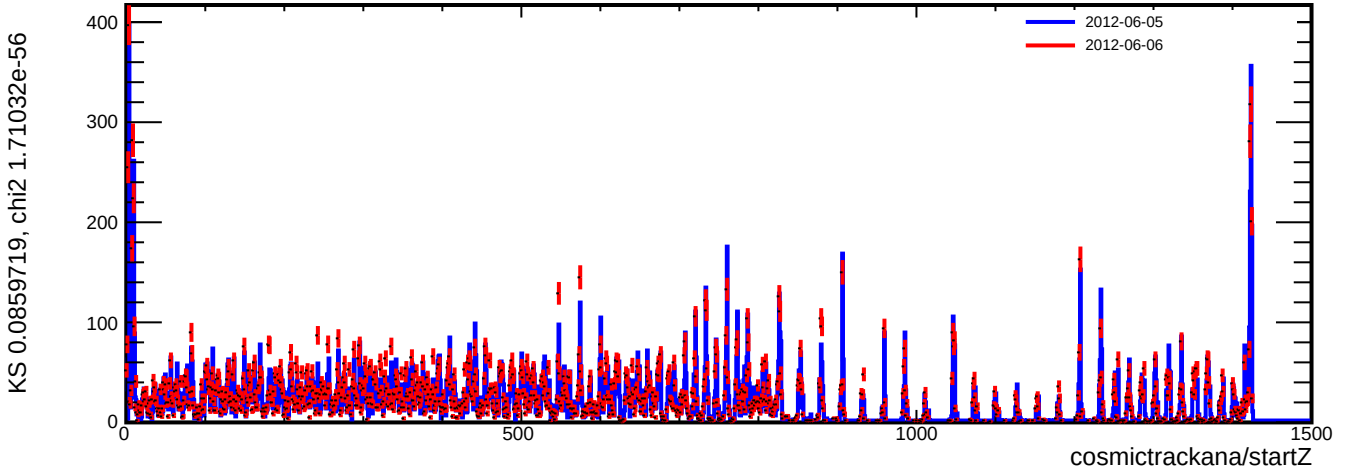

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/endZ
Asymmetry

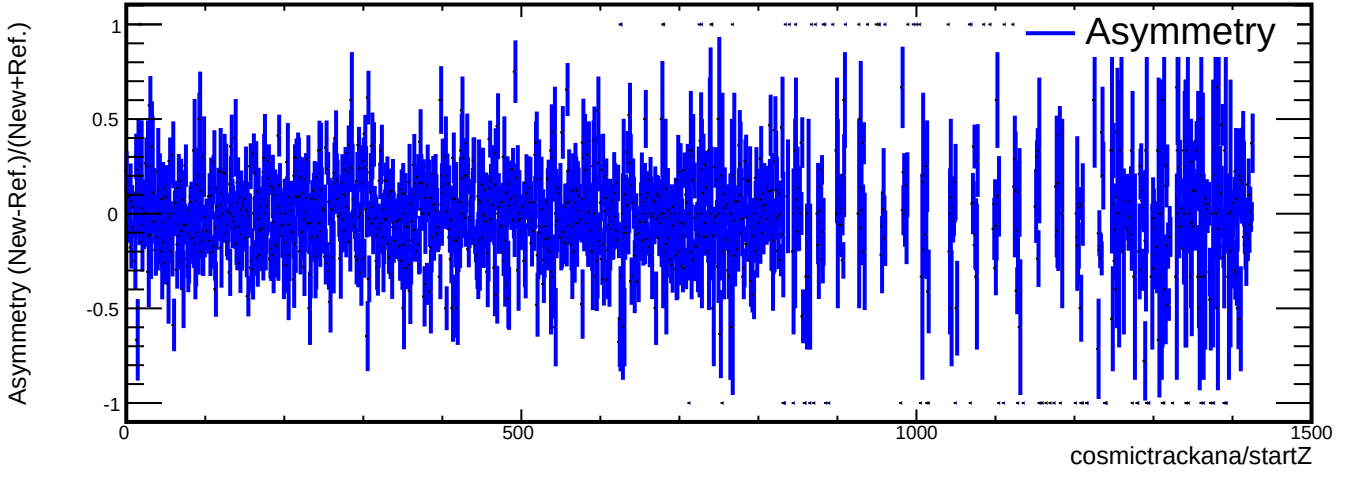

KS 0.226243, chi2 1.1431e-14
2012-06-05
2012-06-06
1000
800
600
400
200
0
-200
-100
0
100
200
cosmictrackana/startX

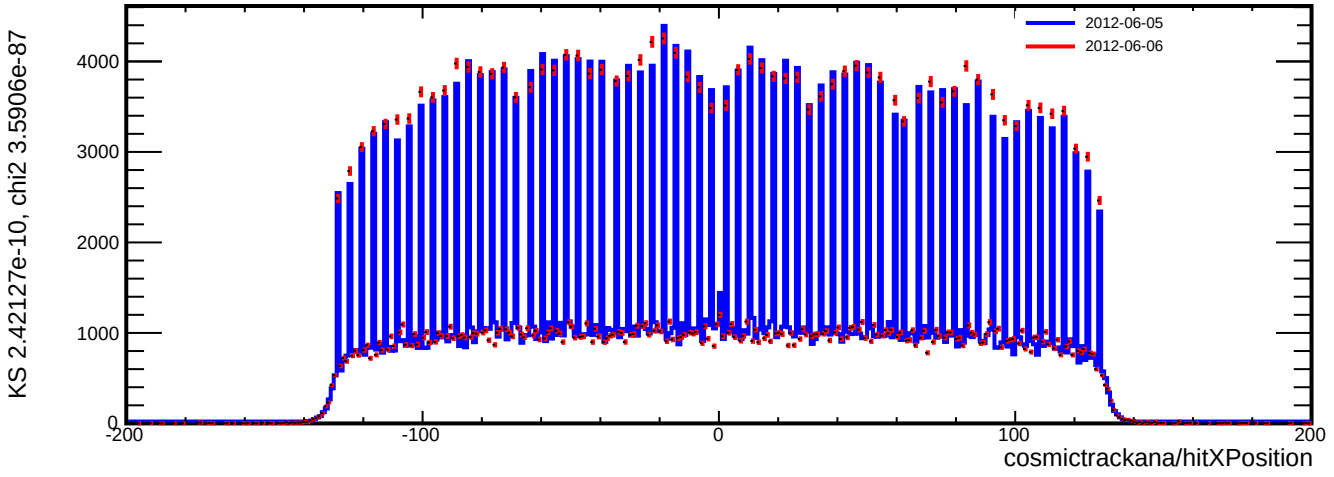

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.4
0.2
0
-0.2
-0.4
-200
-100
0
100
200
cosmictrackana/startX

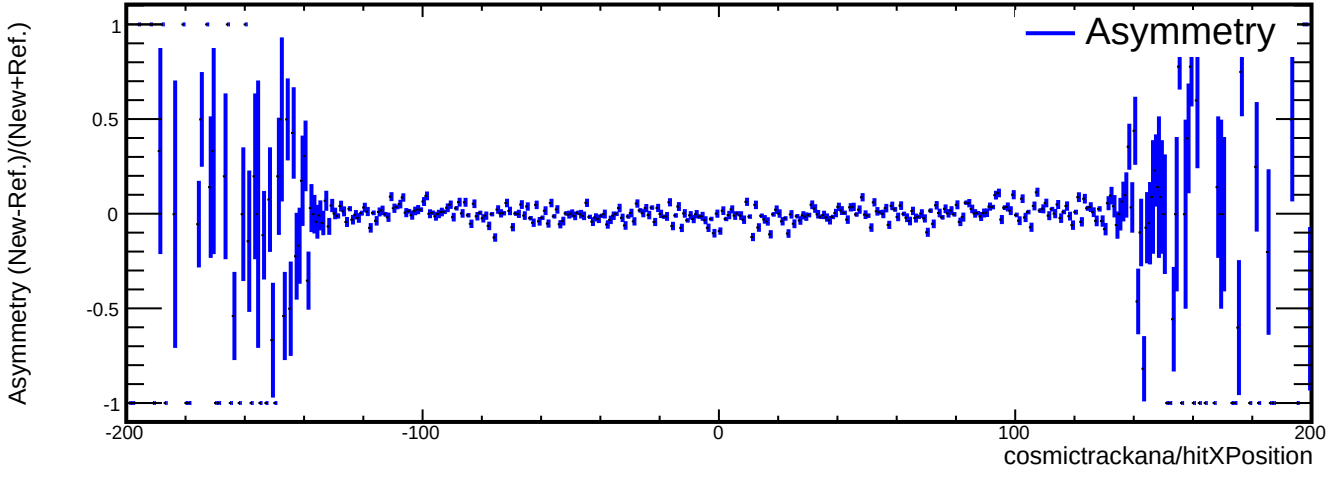

KS 0.721229, chi2 2.68811e-14
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/startY
2012-06-05
2012-06-06

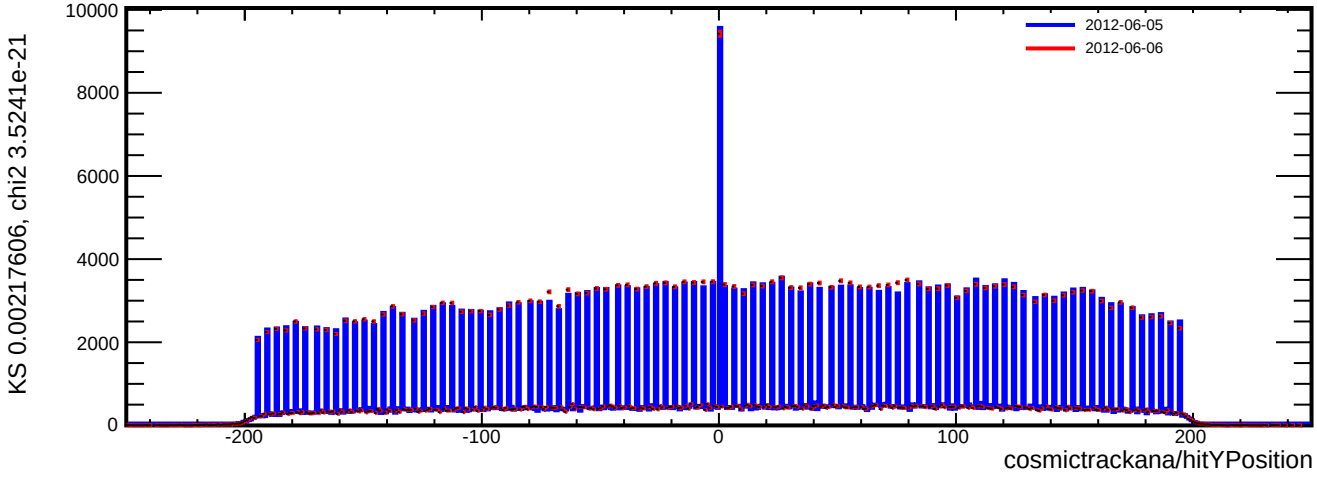

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/startY
Asymmetry

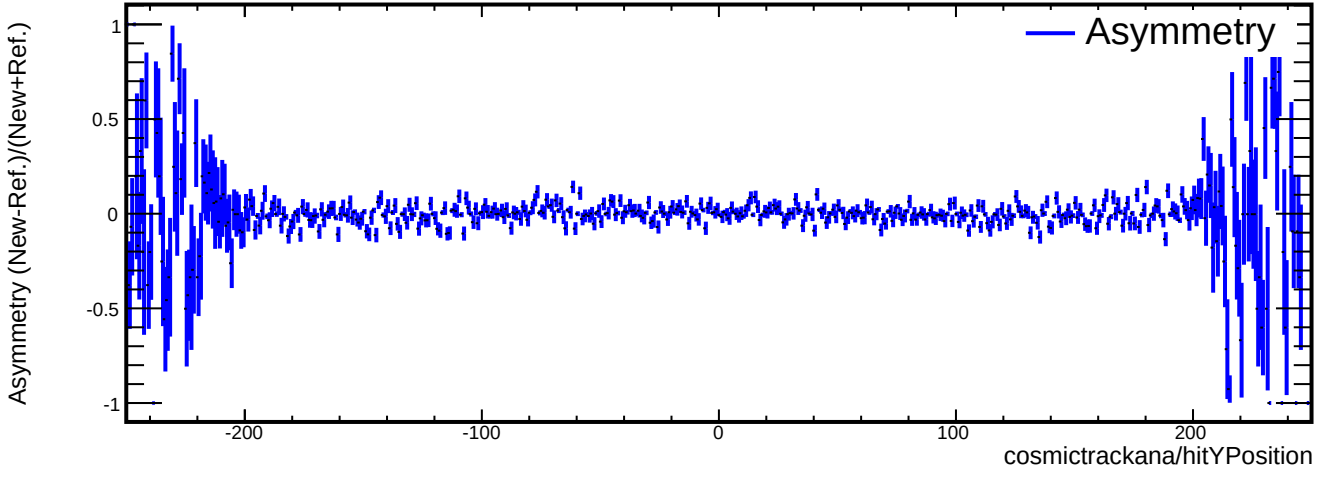

KS 0.0859719, chi2 1.71032e-56
400
300
200
100
0
0
500
1000
1500
cosmictrackana/startZ
2012-06-05
2012-06-06

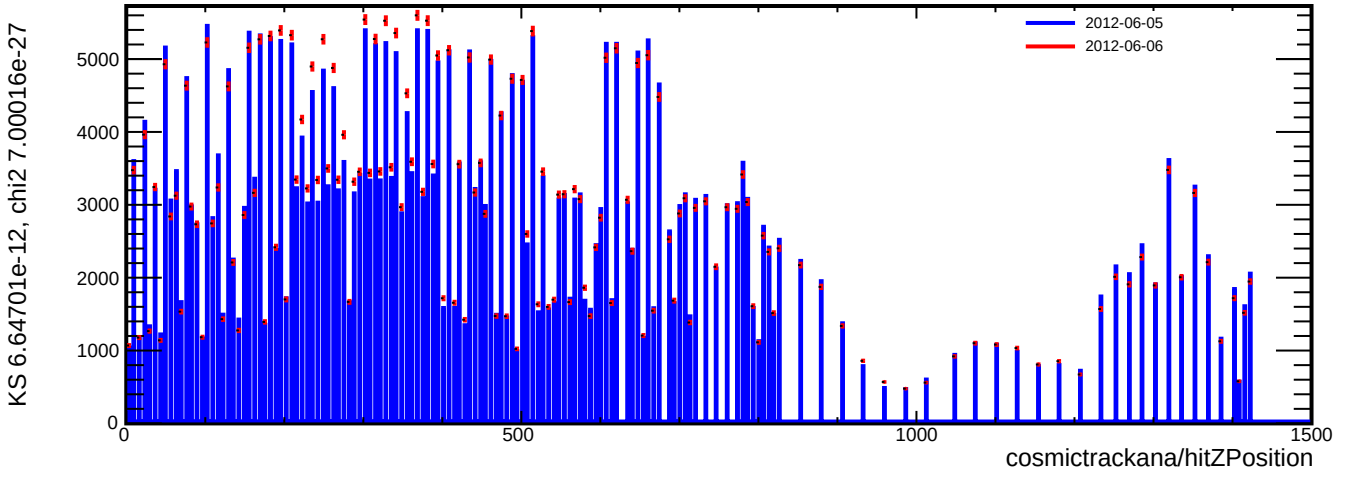

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
0
500
1000
1500
cosmictrackana/startZ
Asymmetry

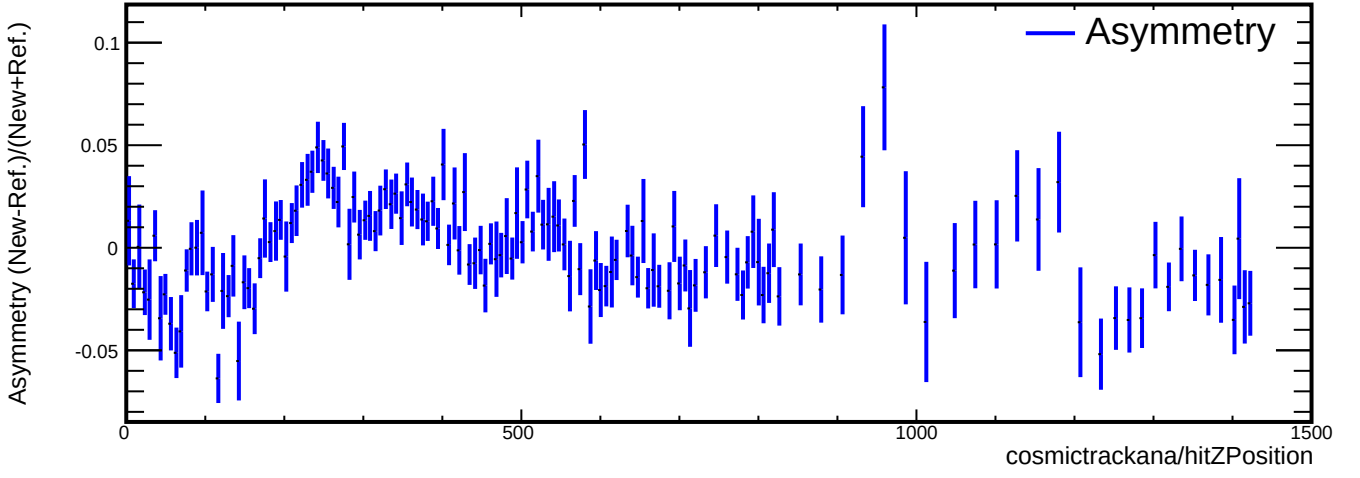

KS 2.42127e-10, chi2 3.5906e-87
2012-06-05
2012-06-06
4000
3000
2000
1000
0
-200
-100
0
100
200
cosmictrackana/hitXPosition

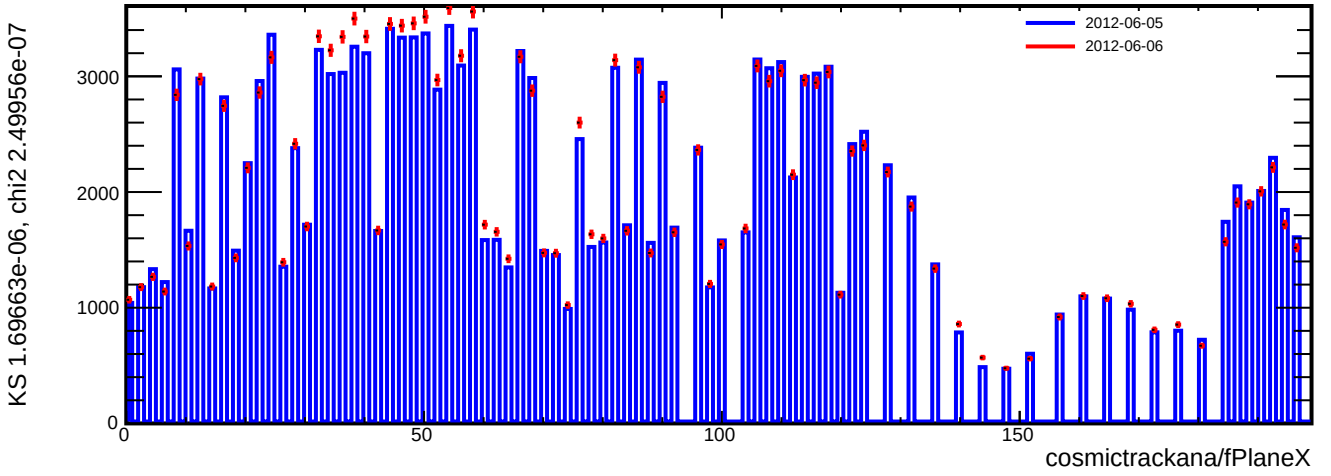

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitXPosition

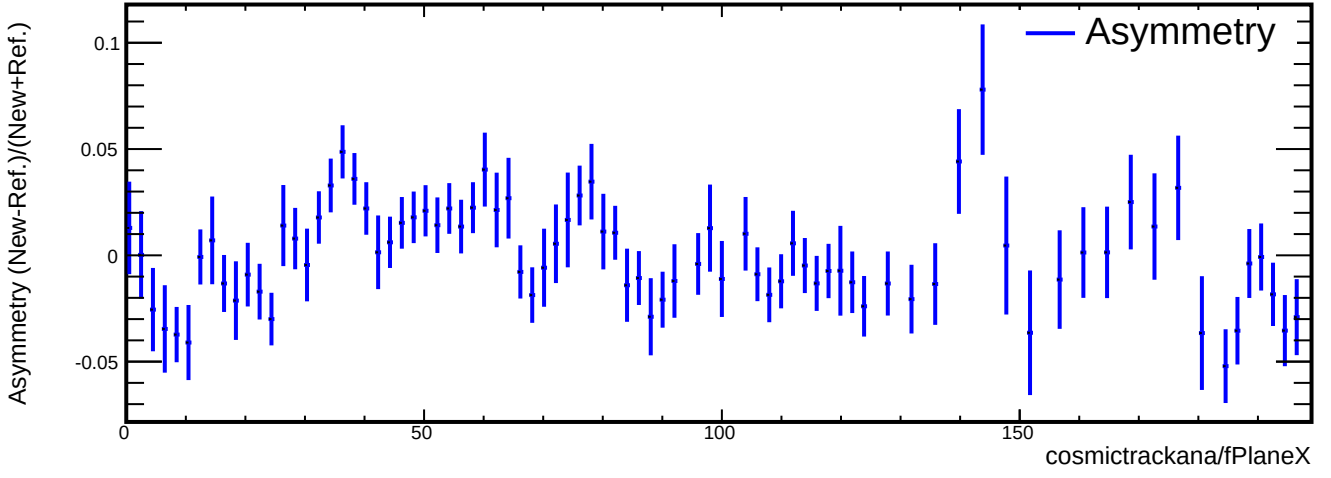

KS 0.00217606, chi2 3.5241e-21
10000
8000
6000
4000
2000
0
-200
-100
0
100
200
cosmictrackana/hitYPosition
2012-06-05
2012-06-06

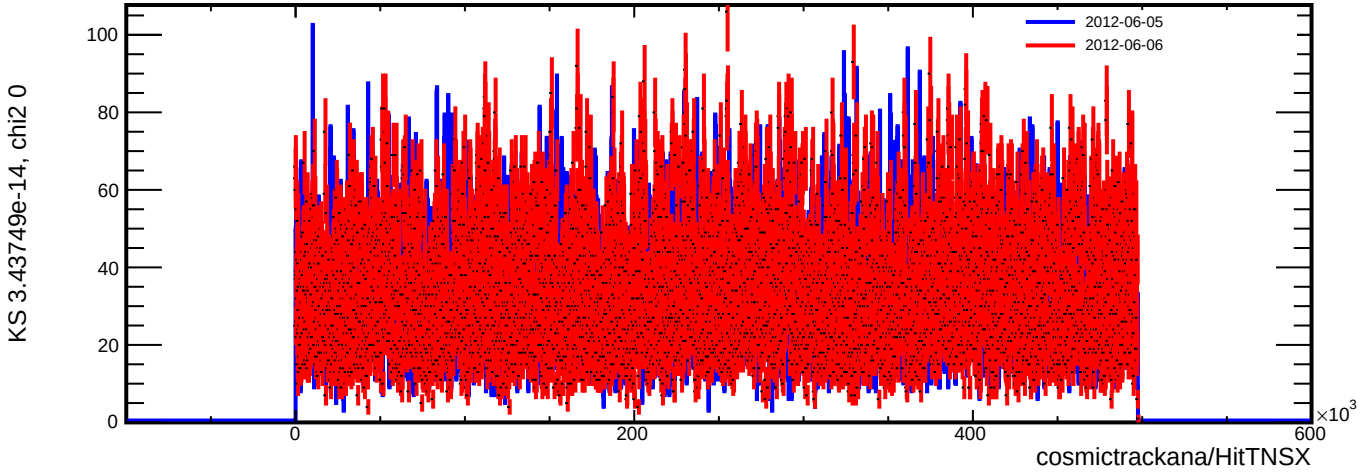

Asymmetry (New-Ref.)/(New+Ref.)
1
0.5
0
-0.5
-1
-200
-100
0
100
200
cosmictrackana/hitYPosition
Asymmetry

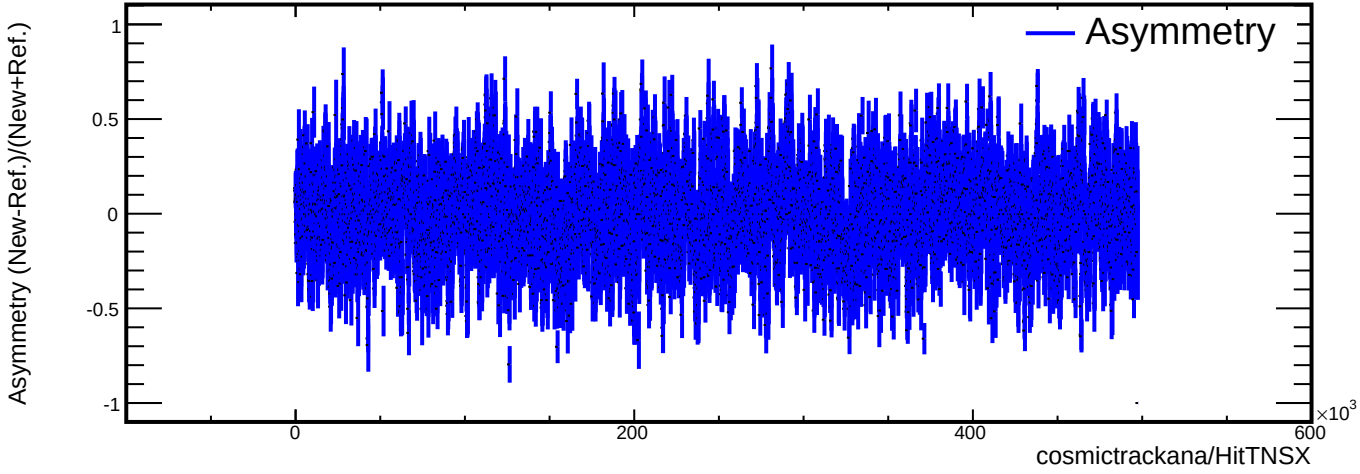

KS 6.64701e-12, chi2 7.00016e-27
2012-06-05
2012-06-06
0
1000
2000
3000
4000
5000
0
500
1000
1500
cosmictrackana/hitZPosition

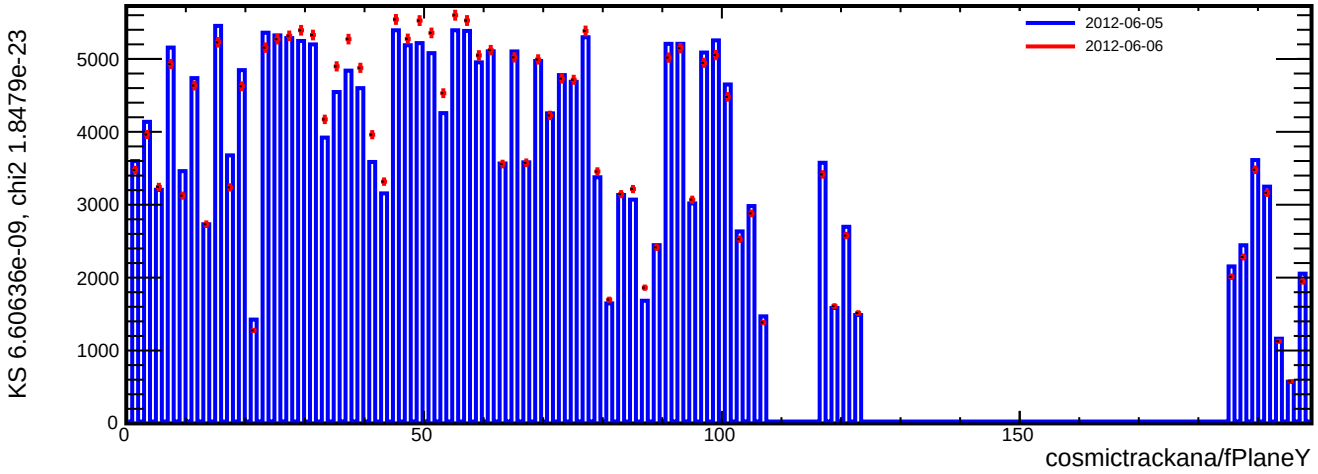

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.1
0.05
0
-0.05
0
500
1000
1500
cosmictrackana/hitZPosition

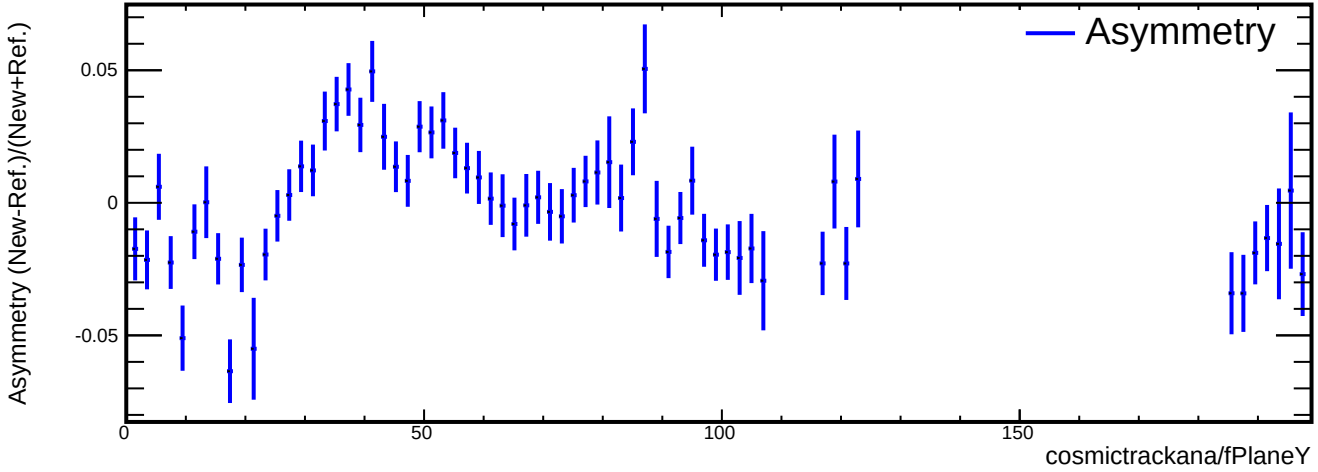

KS 1.69663e-06, chi2 2.49956e-07
2012-06-05
2012-06-06
0
1000
2000
3000
0
50
100
150
cosmictrackana/fPlaneX

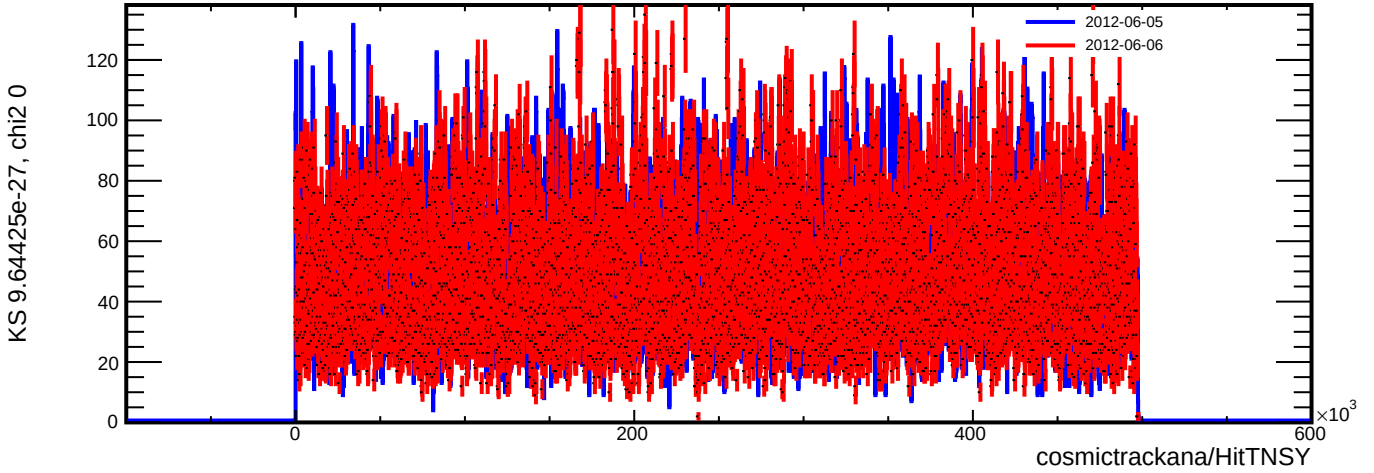

Asymmetry (New-Ref.)/(New+Ref.)
Asymmetry
0.1
0.05
0
-0.05
0
50
100
150
cosmictrackana/fPlaneX

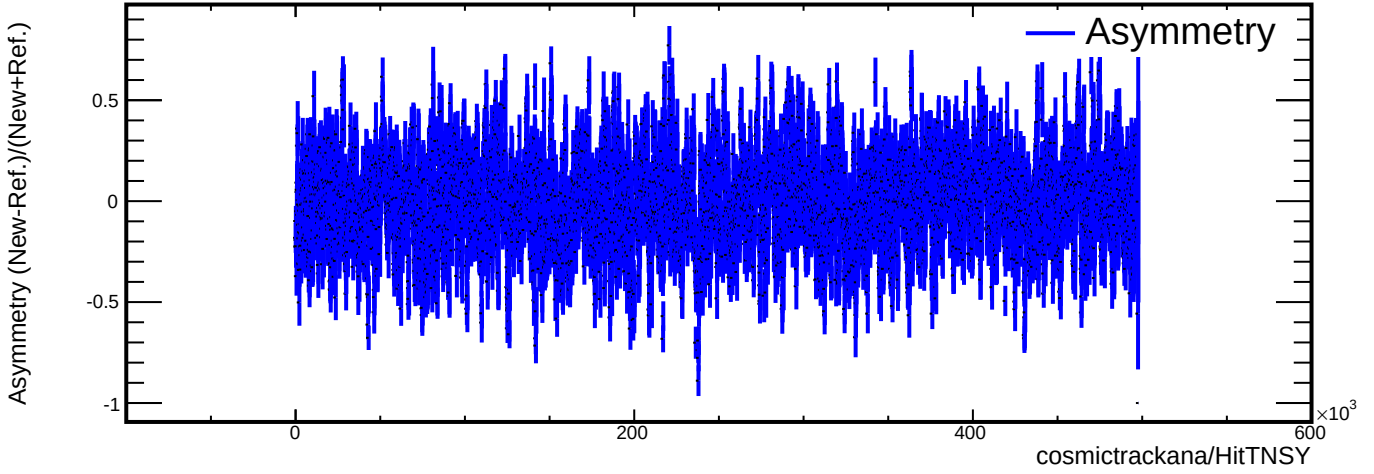

KS 3.43749e-14, chi2 0
2012-06-05
2012-06-06
100
80
60
40
20
0
0
200
400
600
×10^3
cosmictrackana/HitTNSX


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


KS 6.60636e-09, chi2 1.8479e-23
2012-06-05
2012-06-06
0
1000
2000
3000
4000
5000
0
50
100
150
cosmictrackana/fPlaneY


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


2012-06-05
2012-06-06
KS 9.64425e-27, chi2 0
120
100
80
60
40
20
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