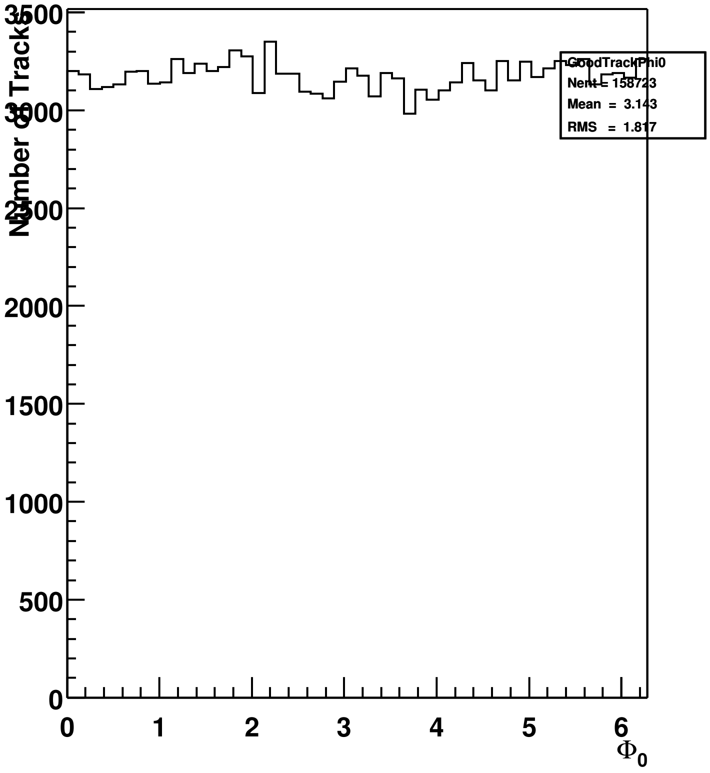
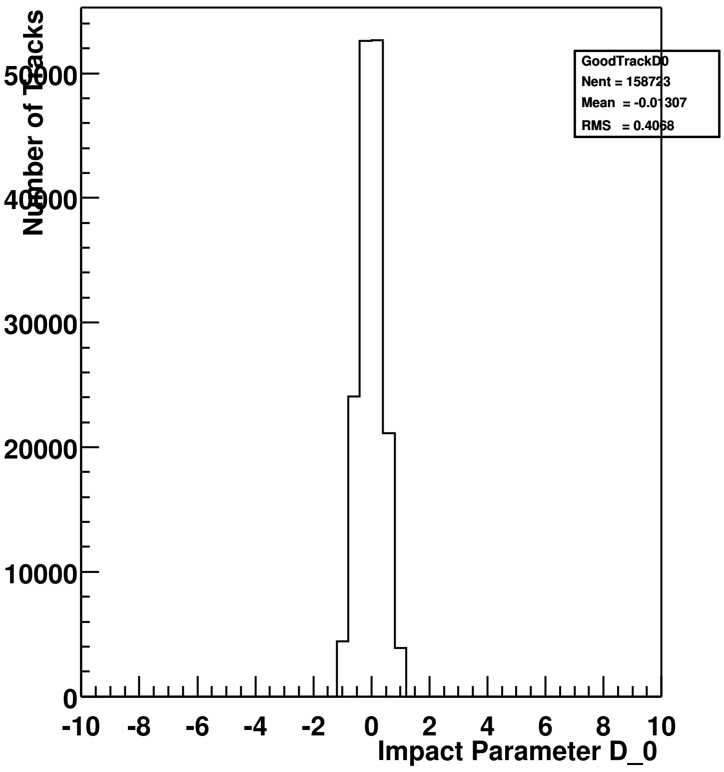
Harv11.Standard SZTrackTree Plots

holloway 968

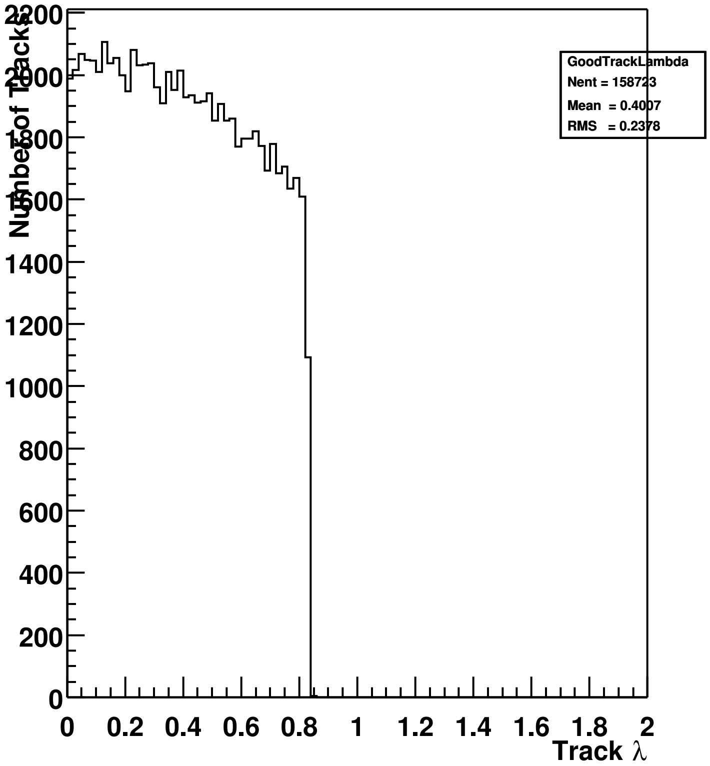
Good Track Φ_0



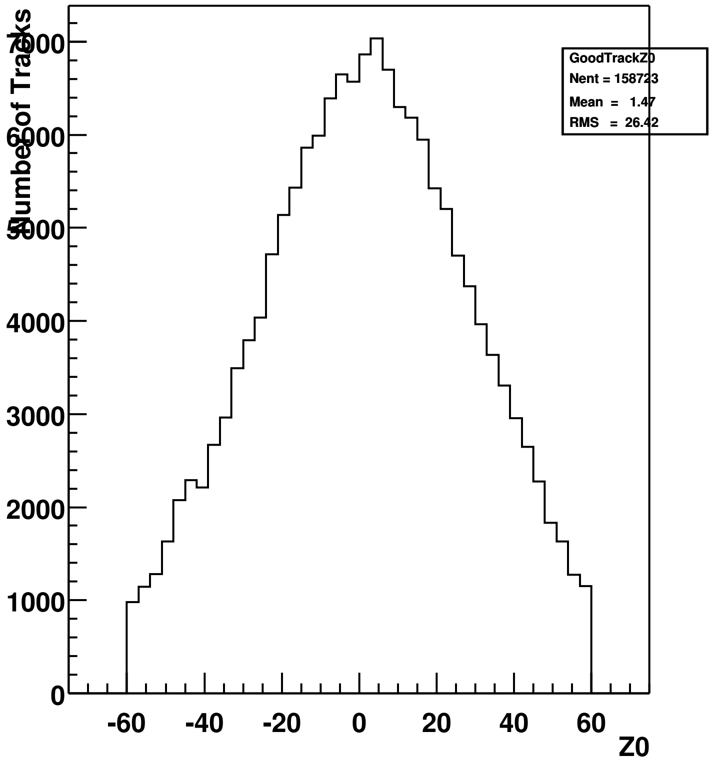
Good Track D_0

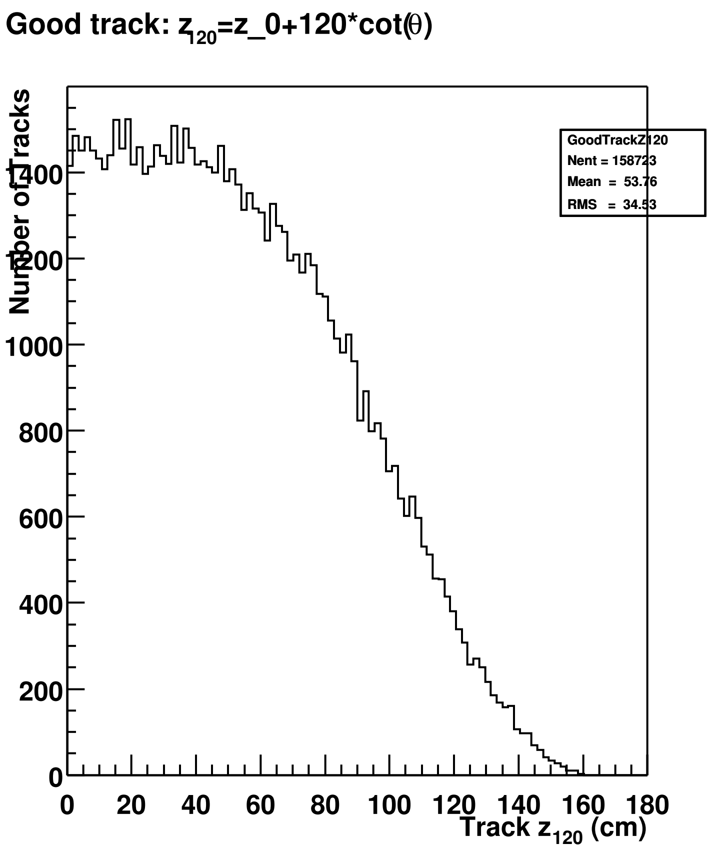


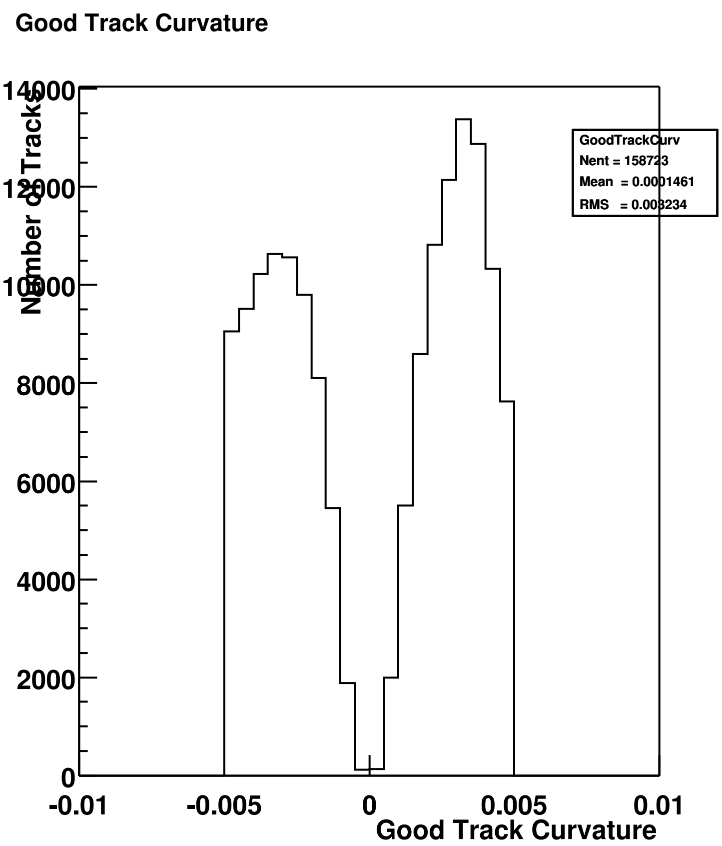
Good track: λ=cot(θ)

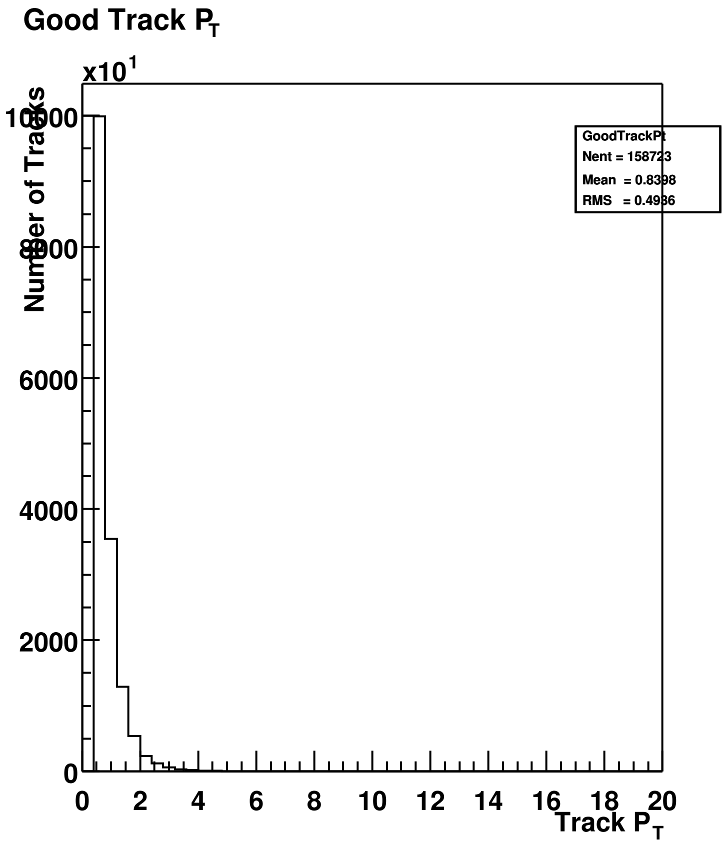


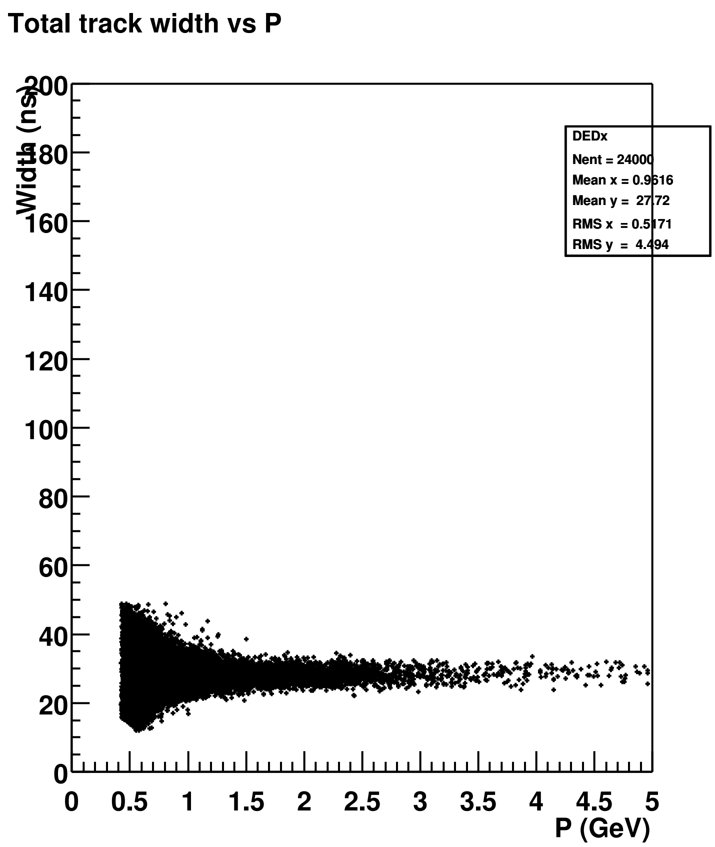
Good Track Z0



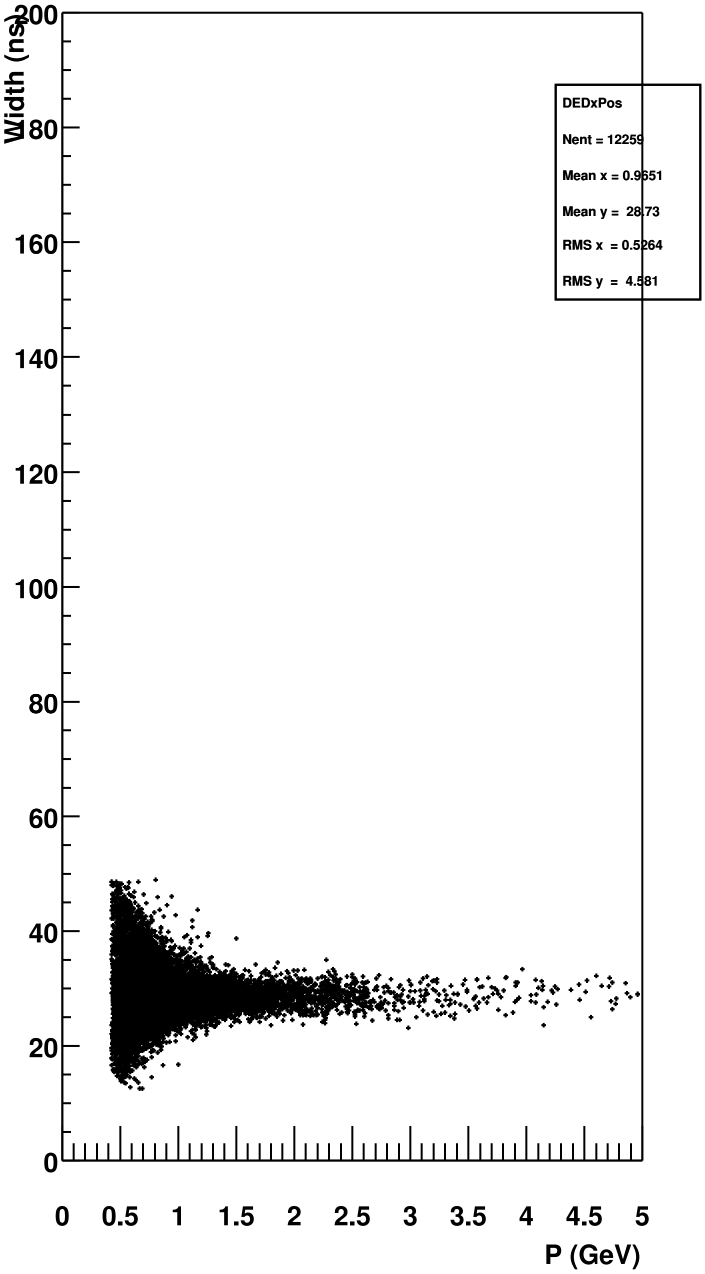

Good track: z_{120}=z_0+120*cot(θ)
Number of Tracks
Track z_{120} (cm)
GoodTrackZ120
Nent = 158723
Mean = 53.76
RMS = 34.53


Good Track Curvature
Number of Tracks
Good Track Curvature
GoodTrackCurv
Nent = 158723
Mean = 0.0001461
RMS = 0.003234

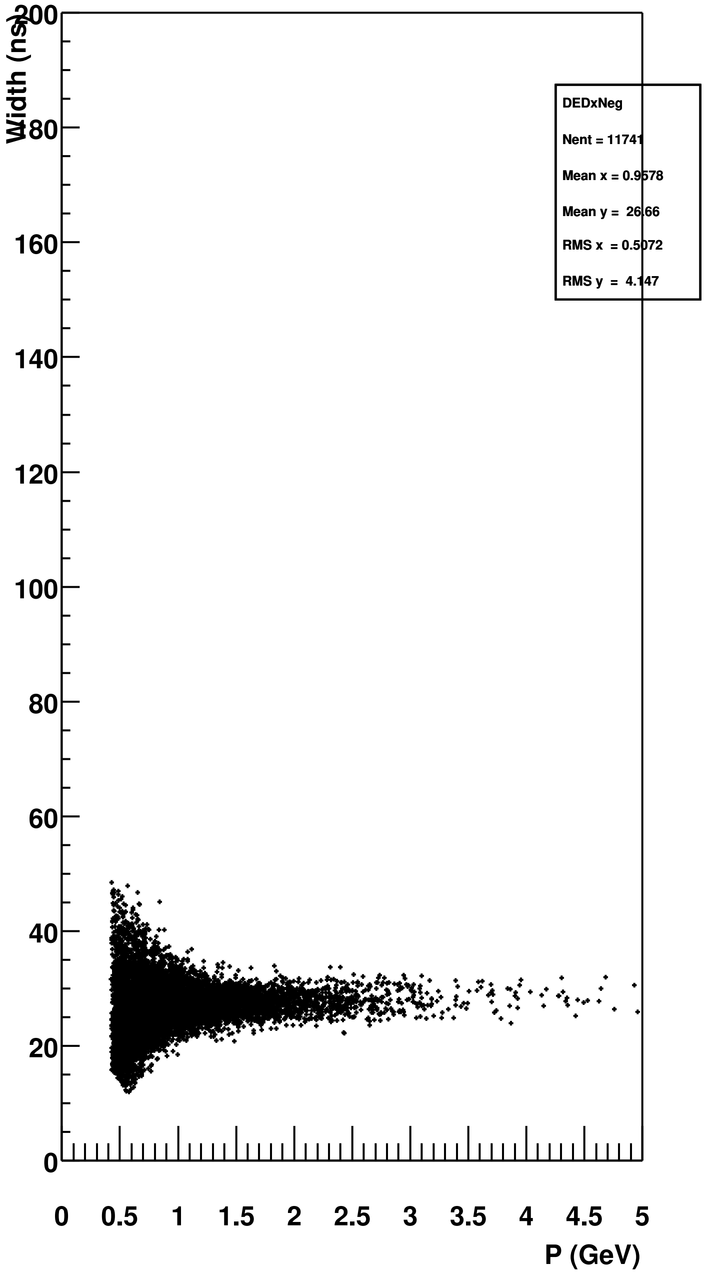

Good Track P_T
x10[1]
Number of Tracks
Track P_T
GoodTrackPt
Nent = 158723
Mean = 0.8398
RMS = 0.4936

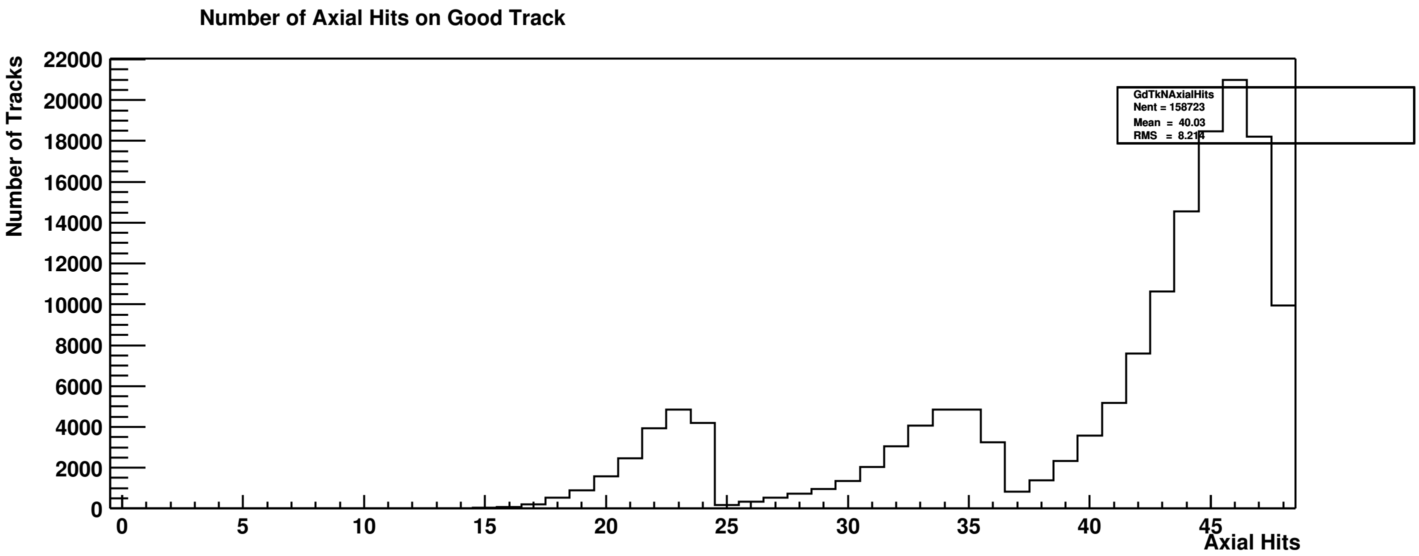

Total track width vs P
Width (ns)
P (GeV)
DEDx
Nent = 24000
Mean x = 0.9616
Mean y = 27.72
RMS x = 0.5171
RMS y = 4.494

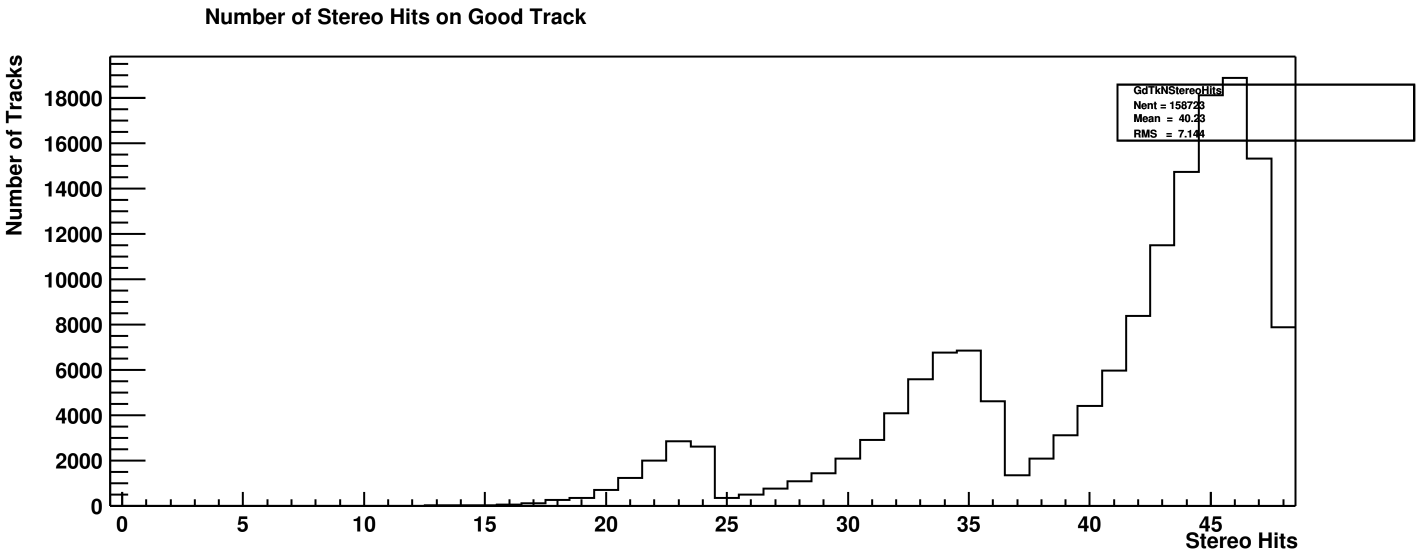
Total track width vs P

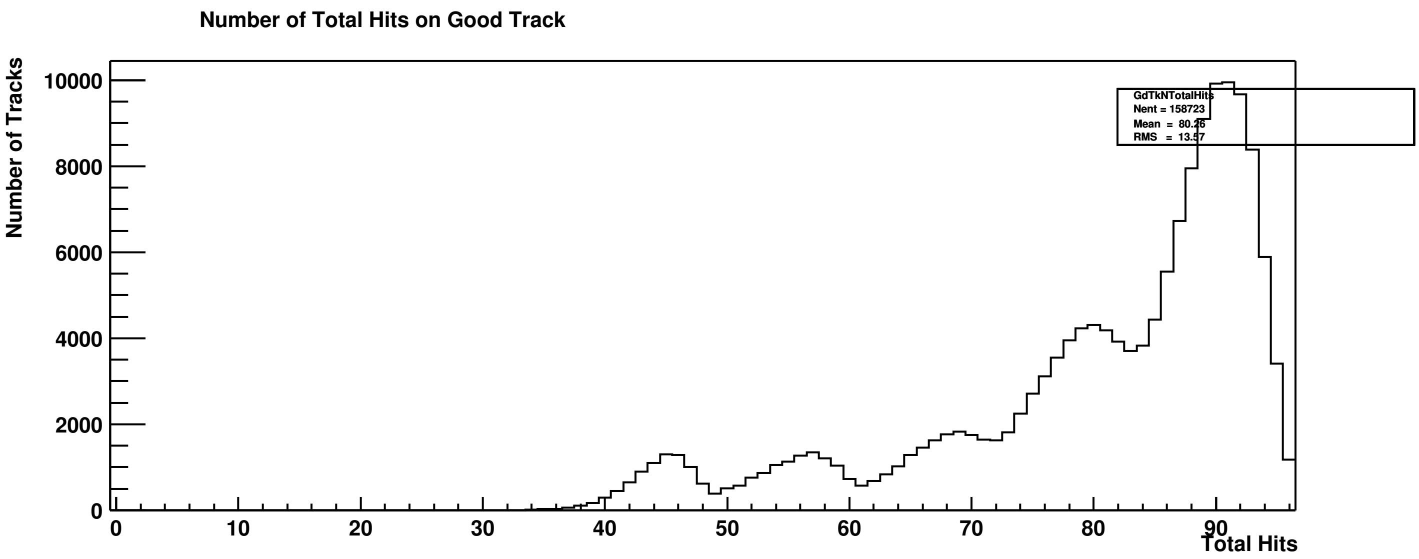


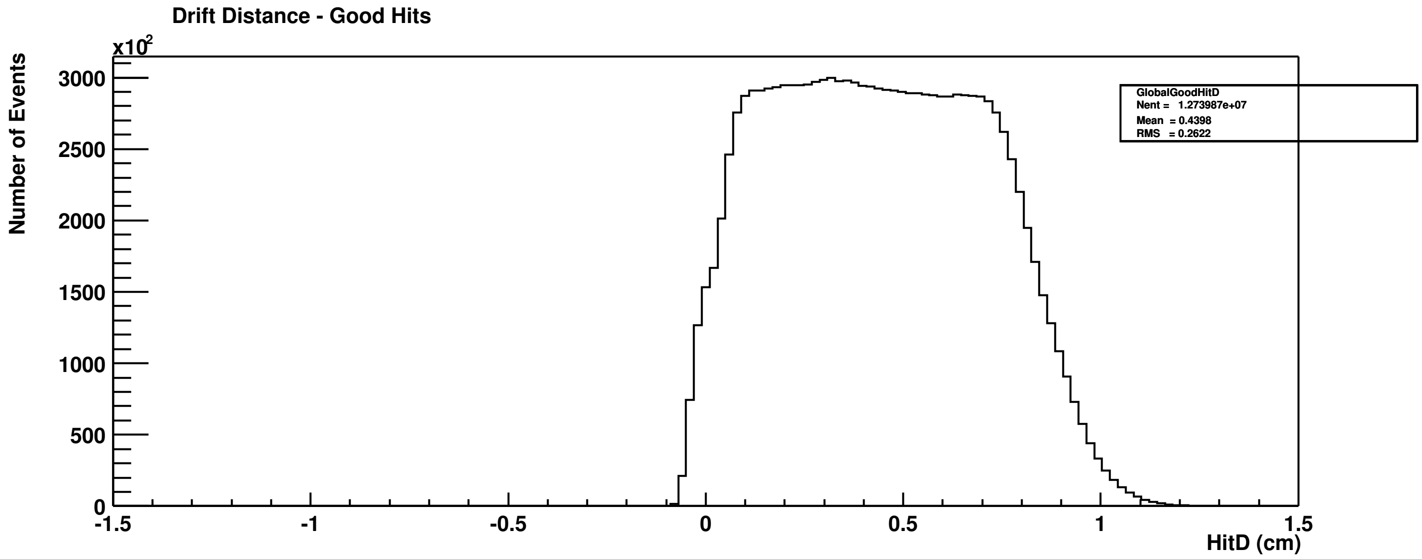
Total track width vs P

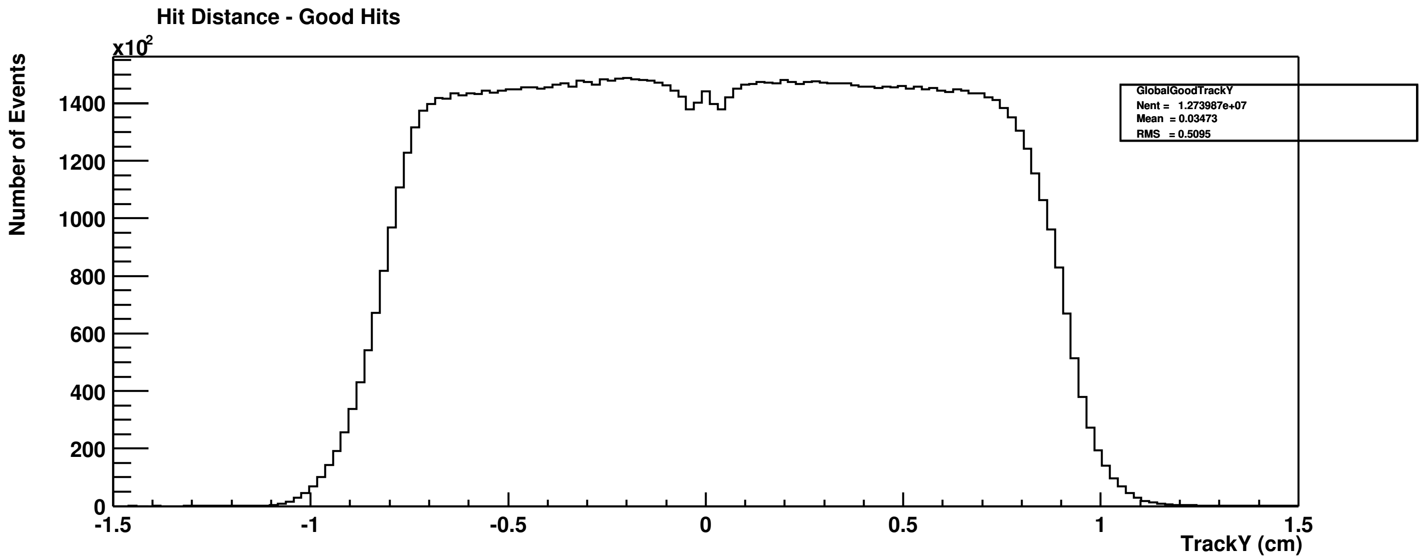


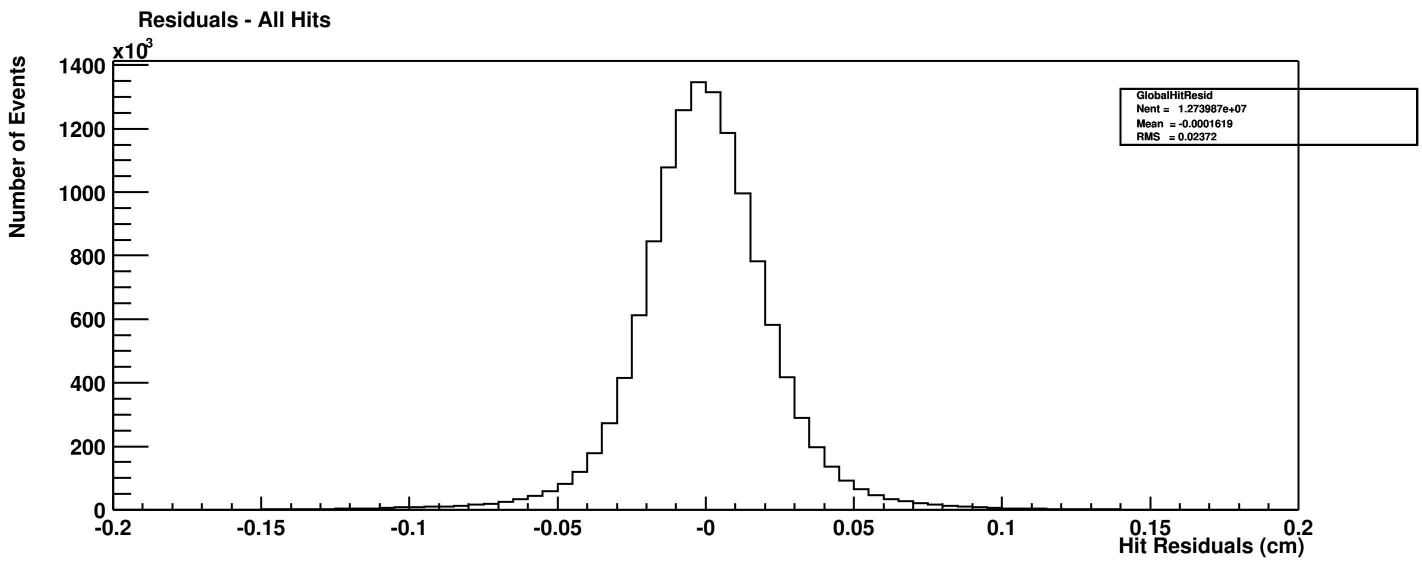

Number of Axial Hits on Good Track
Number of Tracks
Axial Hits
GdTkNAxialHits
Nent = 158723
Mean = 40.03
RMS = 8.214

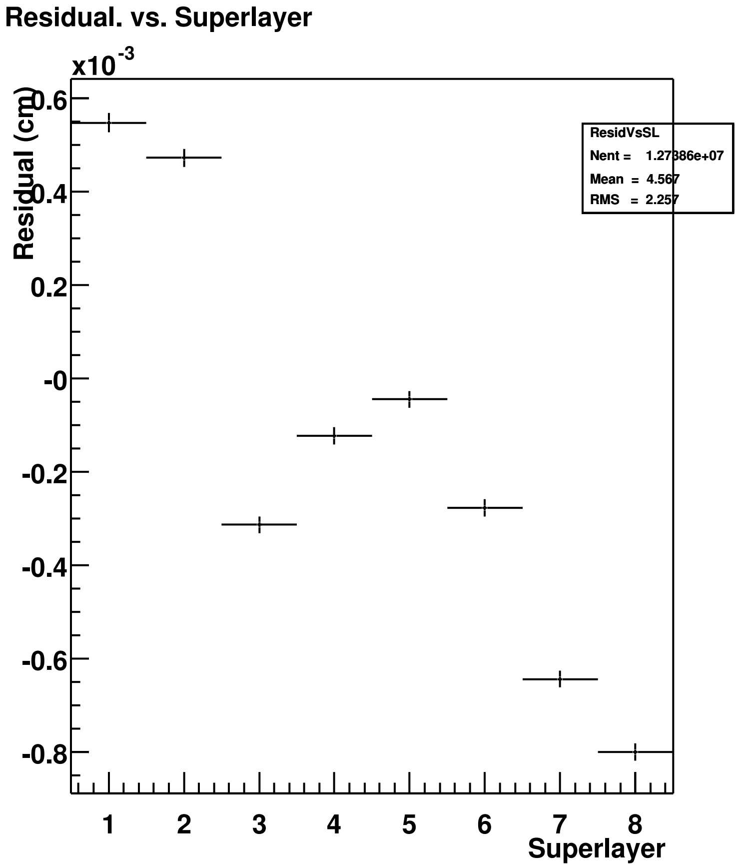

Number of Stereo Hits on Good Track
Number of Tracks
Stereo Hits
GdTkNStereoHits
Nent = 158723
Mean = 40.23
RMS = 7.144

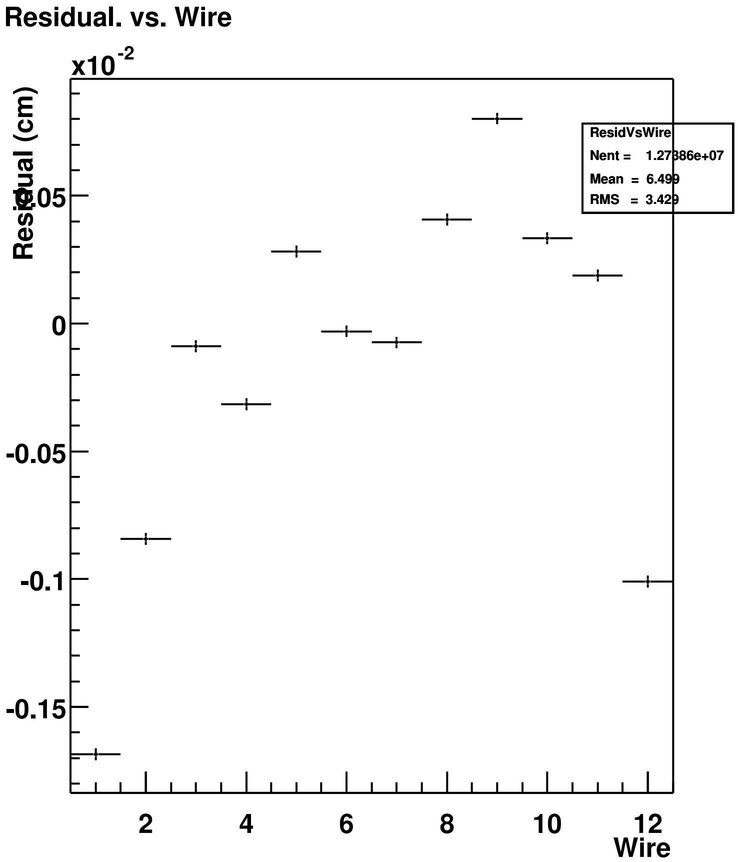

Number of Total Hits on Good Track
Number of Tracks
Total Hits
GdTkNTotalHits
Nent = 158723
Mean = 80.26
RMS = 13.57

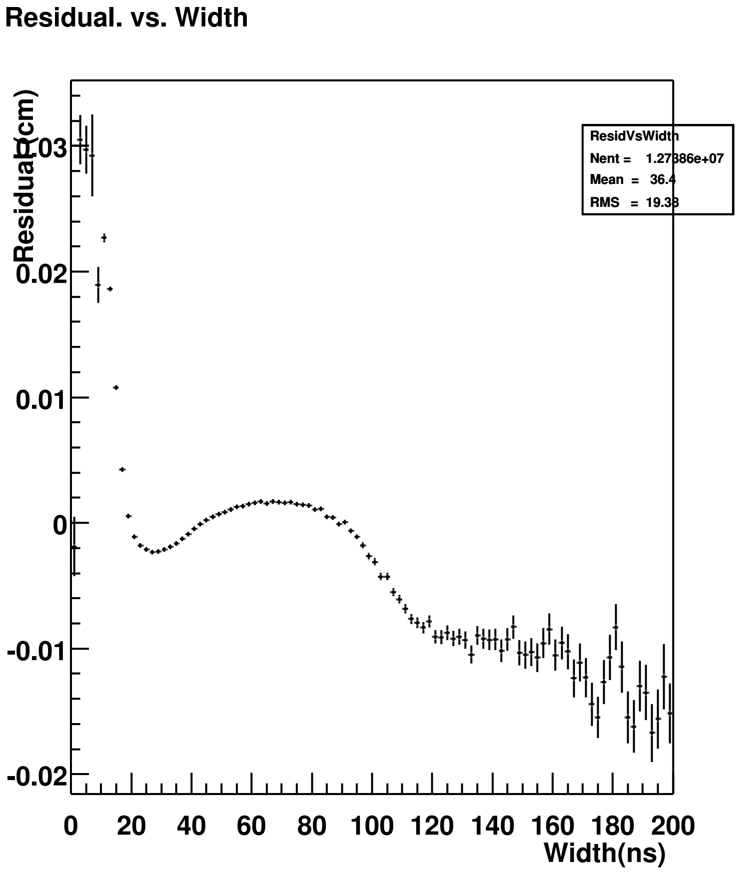

Drift Distance - Good Hits
x10^2
Number of Events
HitD (cm)
GlobalGoodHitD
Nent = 1.273987e+07
Mean = 0.4398
RMS = 0.2622

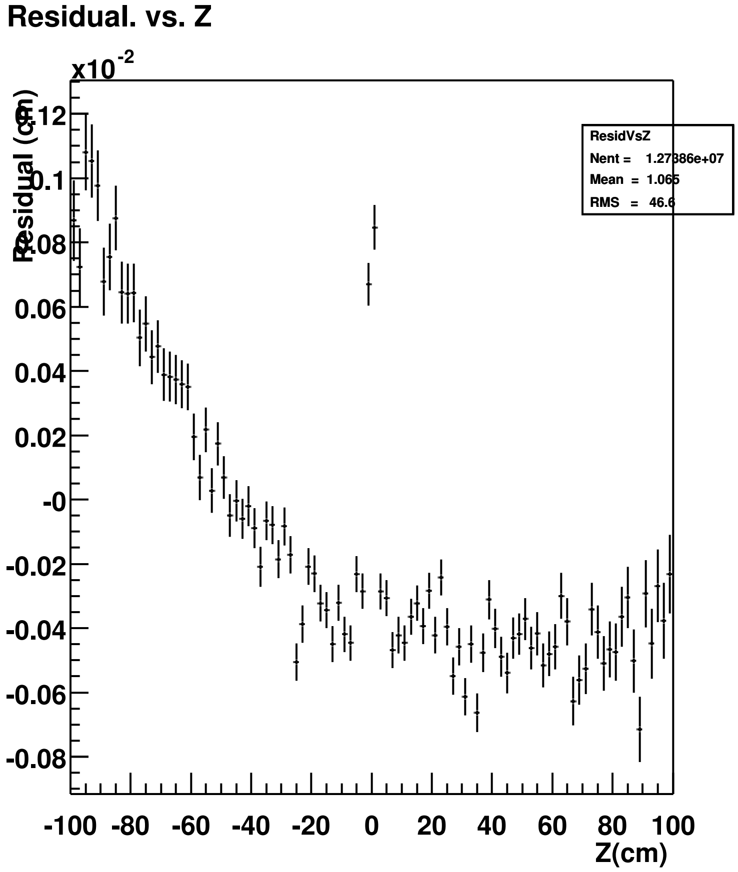

Hit Distance - Good Hits
x10^2
Number of Events
TrackY (cm)
GlobalGoodTrackY
Nent = 1.273987e+07
Mean = 0.03473
RMS = 0.5095

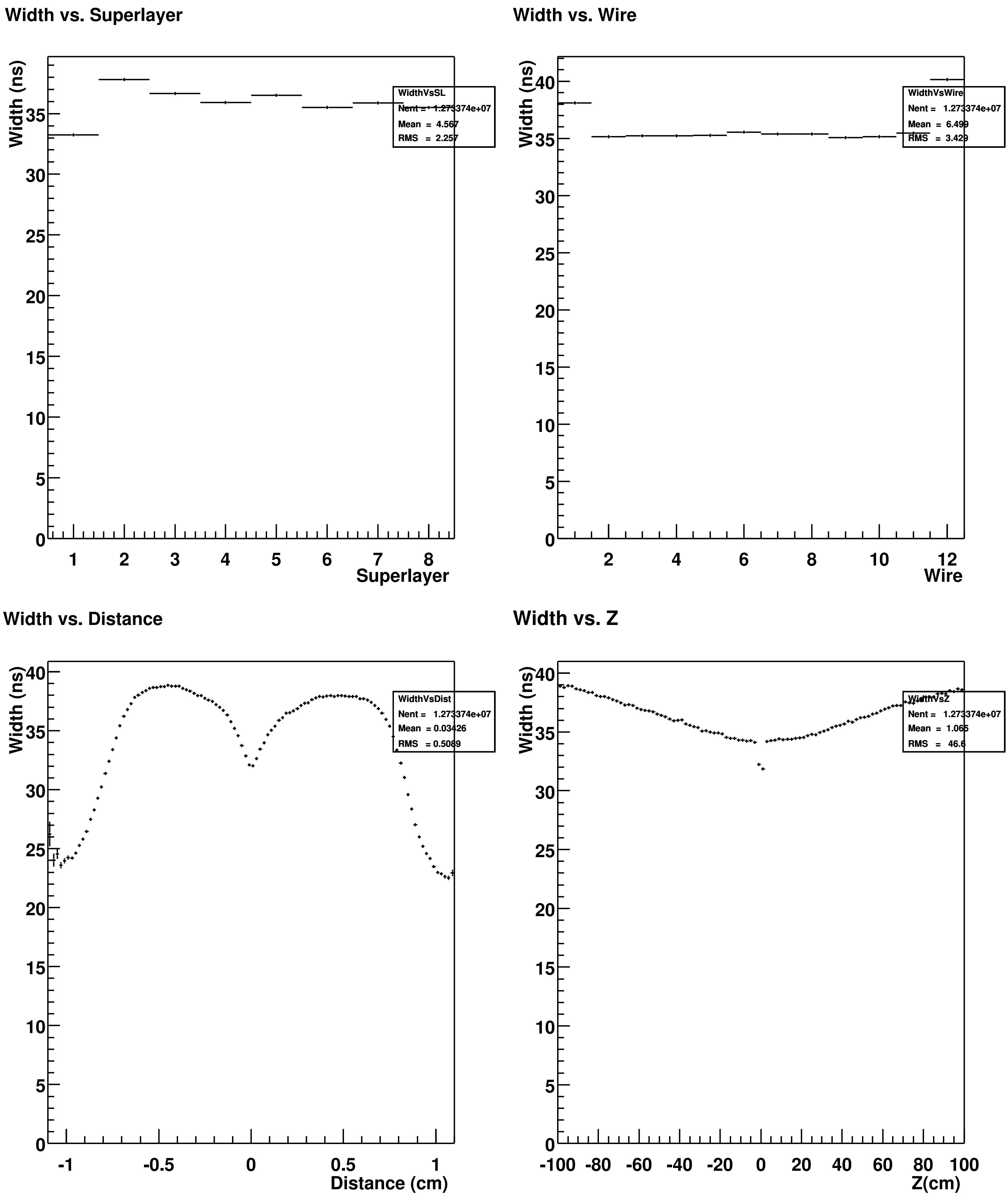

Residuals - All Hits
x10^3
Number of Events
Hit Residuals (cm)
GlobalHitResid
Nent = 1.273987e+07
Mean = -0.0001619
RMS = 0.02372

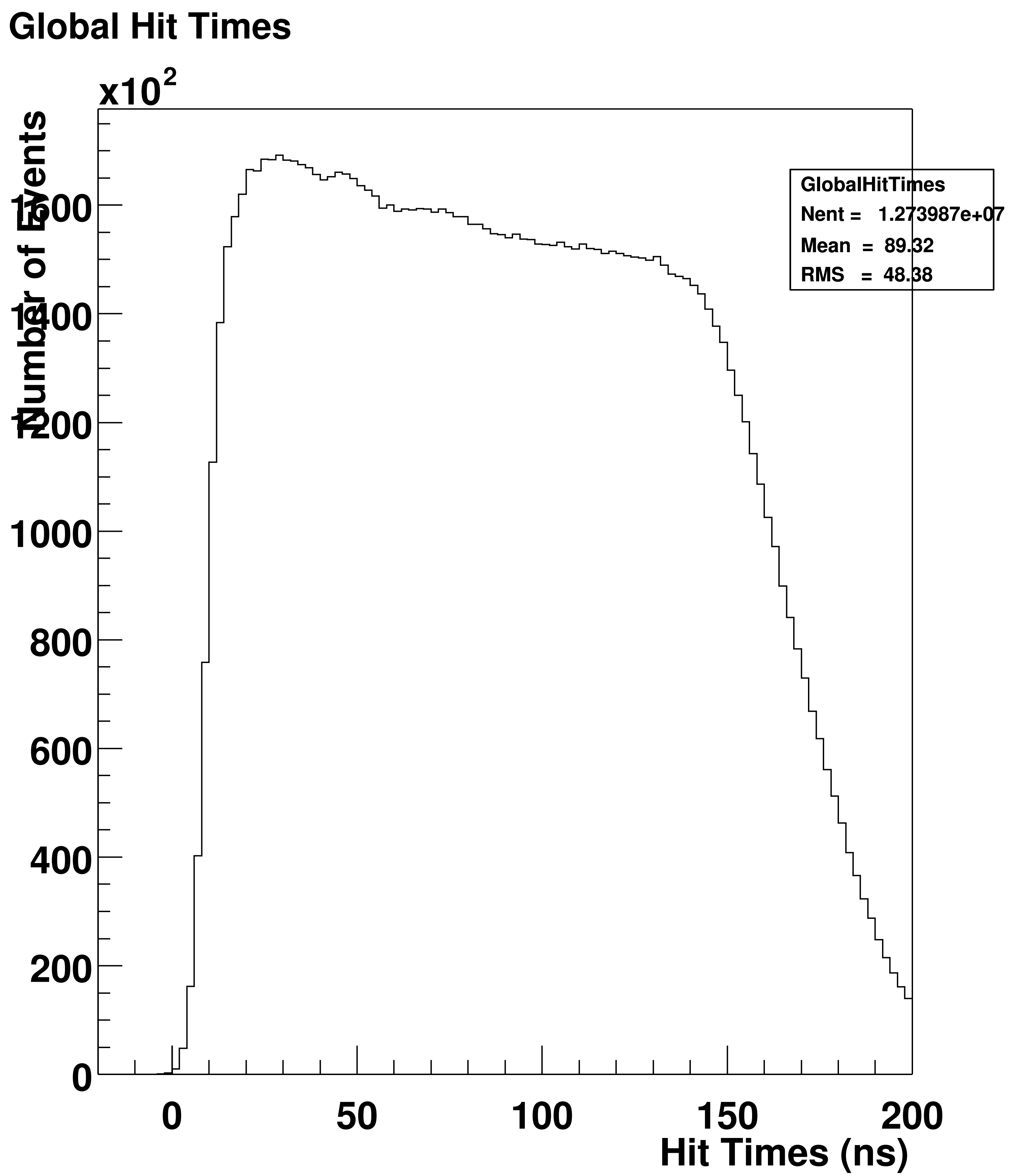

Residual. vs. Superlayer
x10^-3
Residual (cm)
ResidVsSL
Nent = 1.27386e+07
Mean = 4.567
RMS = 2.257
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
1 2 3 4 5 6 7 8
Superlayer


Residual. vs. Wire
x10^-2
Residual (cm)
ResidVsWire
Nent = 1.27386e+07
Mean = 6.499
RMS = 3.429
0.05
0
-0.05
-0.1
-0.15
2 4 6 8 10 12
Wire

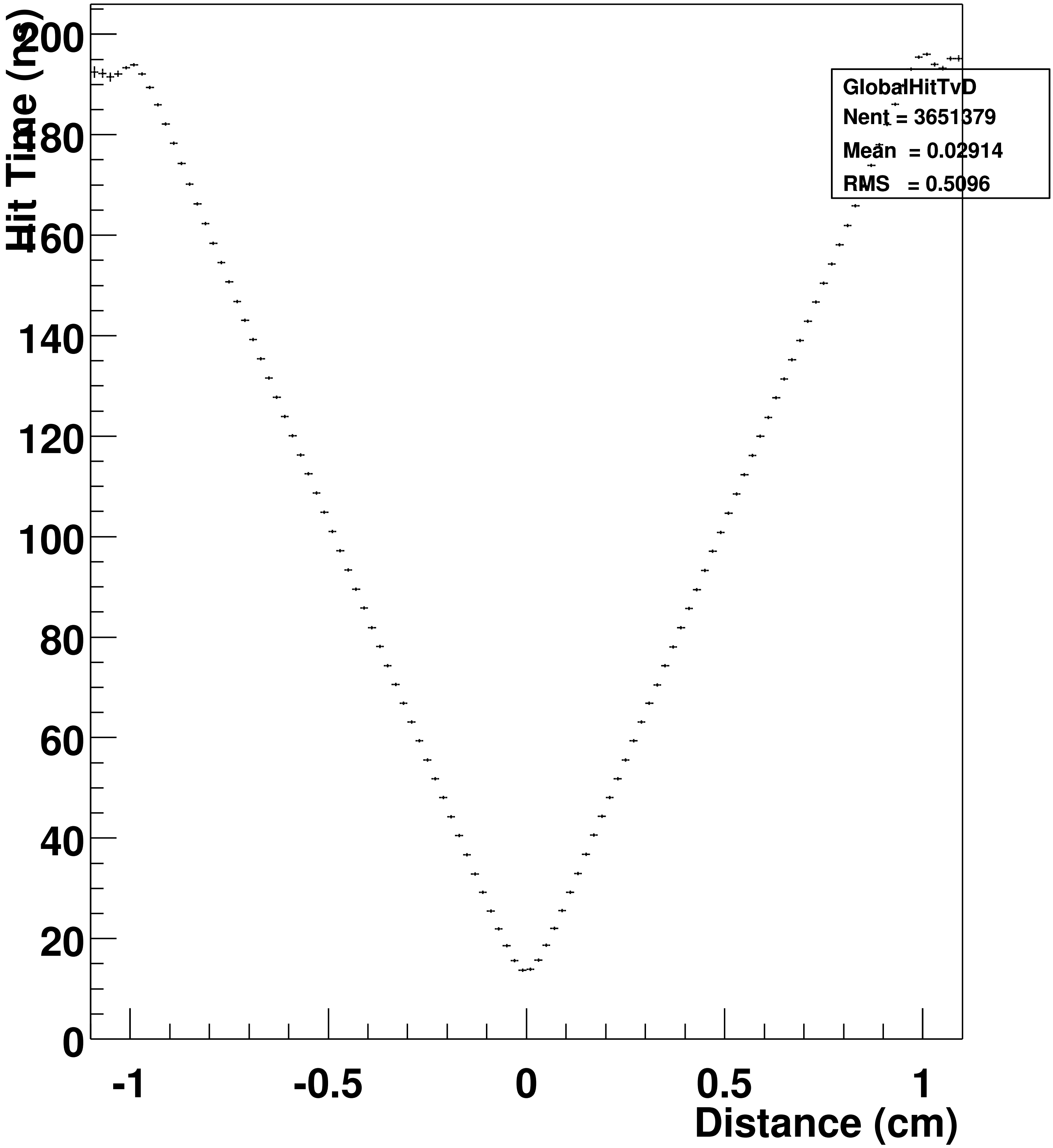

Residual. vs. Width
Residual (cm)
ResidVsWidth
Nent = 1.27386e+07
Mean = 36.4
RMS = 19.38
0.03
0.02
0.01
0
-0.01
-0.02
0 20 40 60 80 100 120 140 160 180 200
Width(ns)


Residual. vs. Z
x10^-2
Residual (cm)
ResidVsZ
Nent = 1.27386e+07
Mean = 1.065
RMS = 46.6
0.12
0.1
0.08
0.06
0.04
0.02
-0
-0.02
-0.04
-0.06
-0.08
-100 -80 -60 -40 -20 0 20 40 60 80 100
Z(cm)


Width vs. Superlayer
Width (ns)
Superlayer
WidthVsSL
Nent = 1.273374e+07
Mean = 4.567
RMS = 2.257
Width vs. Wire
Width (ns)
Wire
WidthVsWire
Nent = 1.273374e+07
Mean = 6.499
RMS = 3.429
Width vs. Distance
Width (ns)
Distance (cm)
WidthVsDist
Nent = 1.273374e+07
Mean = 0.03426
RMS = 0.5089
Width vs. Z
Width (ns)
Z(cm)
WidthVsZ
Nent = 1.273374e+07
Mean = 1.065
RMS = 46.6

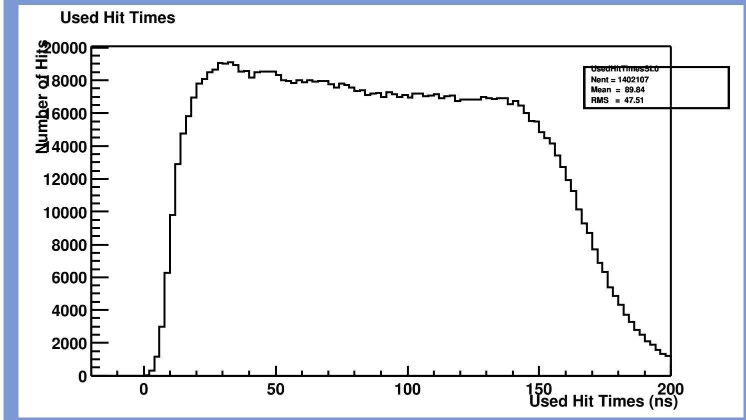

Global Hit Times
x10^2
Number of Events
GlobalHitTimes
Nent = 1.273987e+07
Mean = 89.32
RMS = 48.38
0
200
400
600
800
1000
1200
1400
1600
0
50
100
150
200
Hit Times (ns)

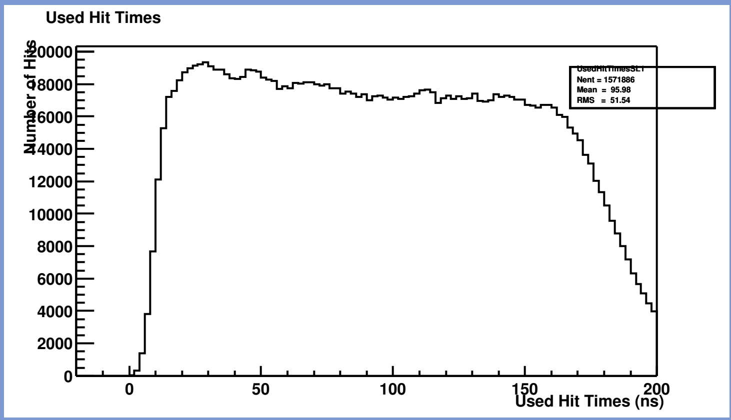
Global Time vs. Dist.

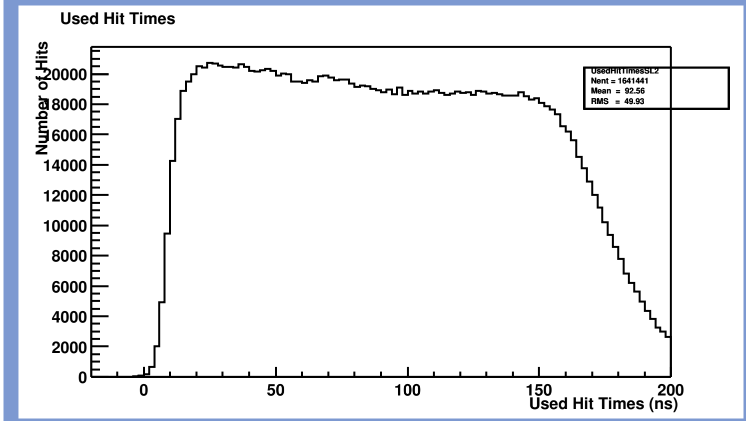


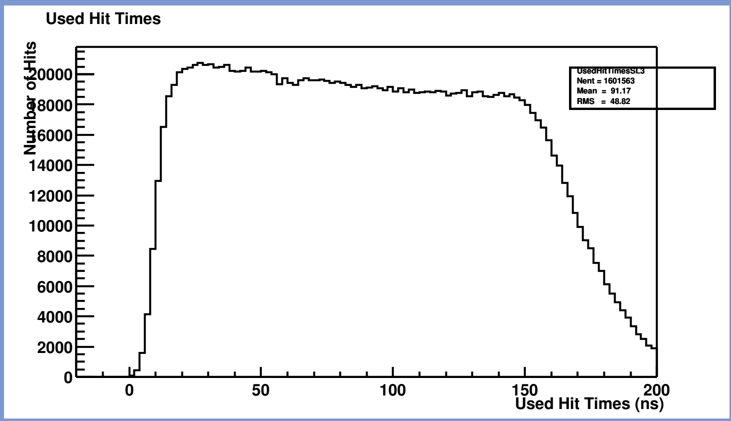
Used Hit Times

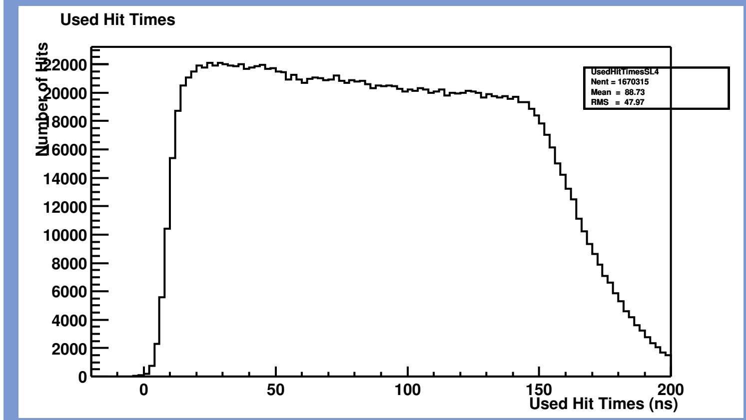
2001-10-29 20:05:27

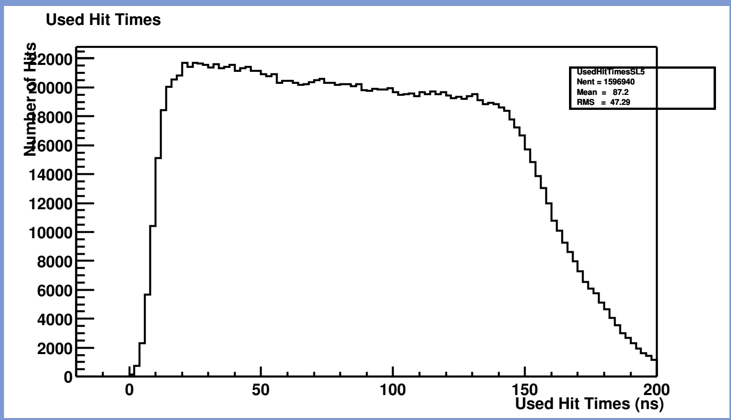


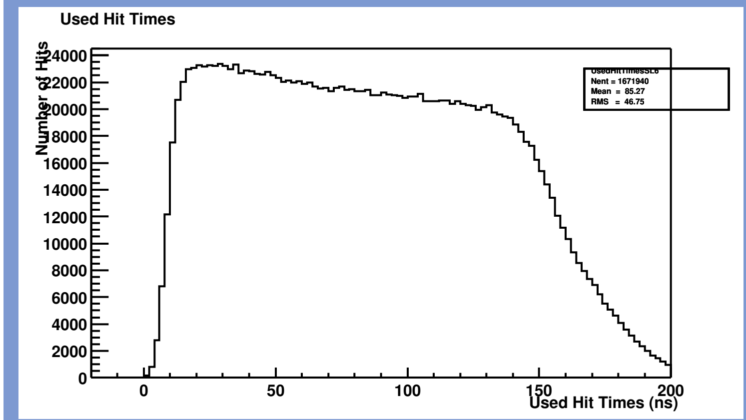


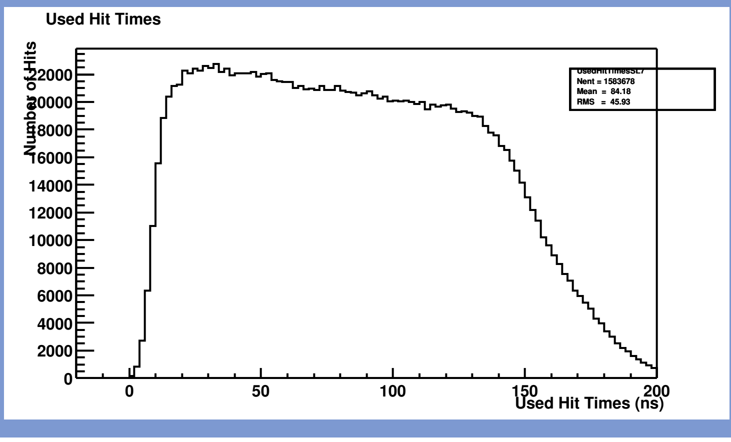






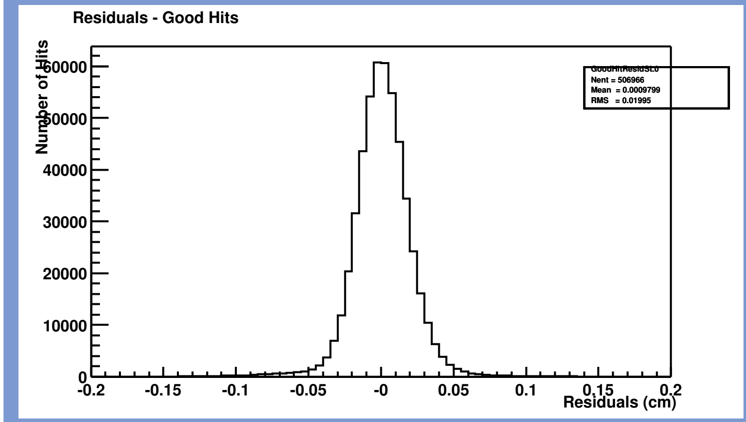


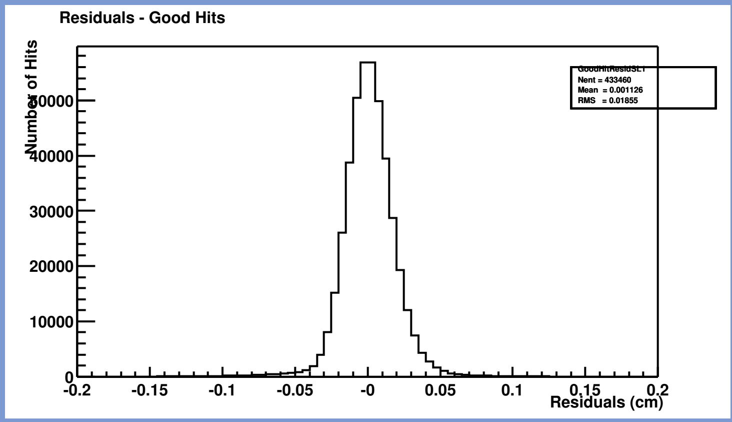


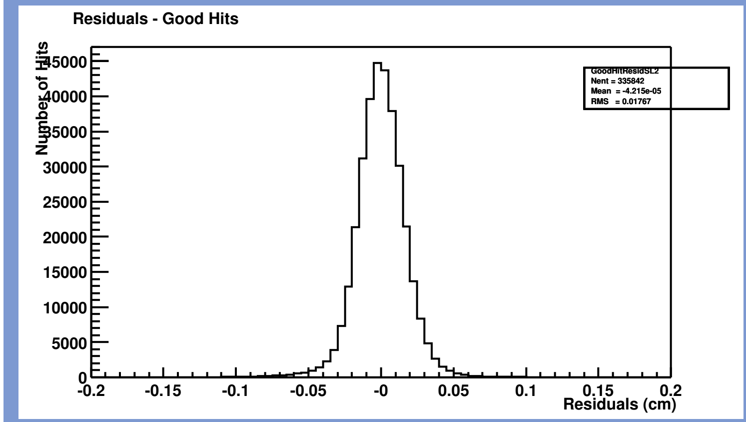


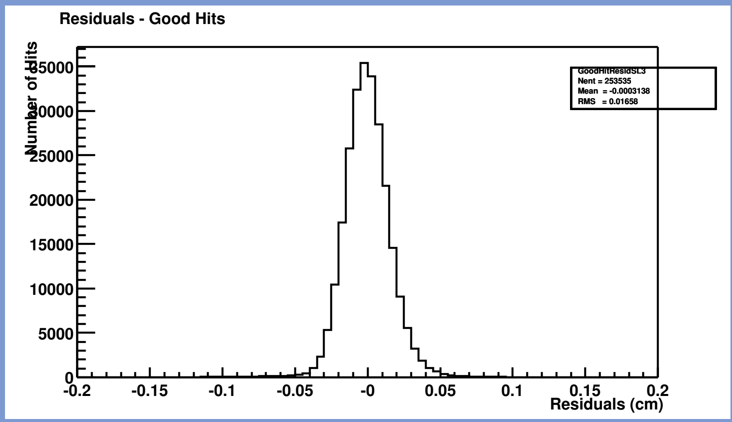
Residuals - Good Hits

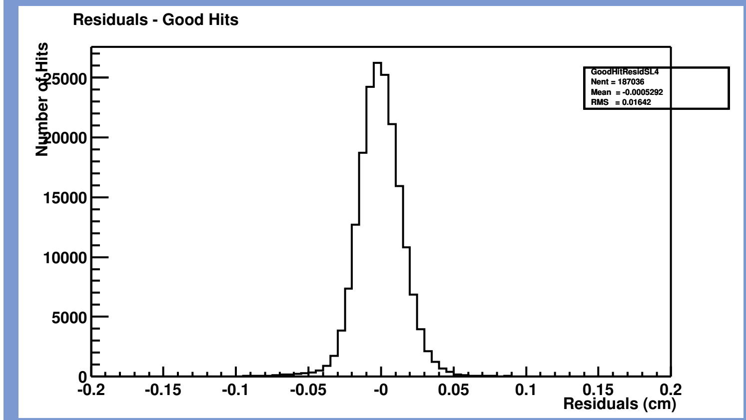
2001-10-29 20:05:31

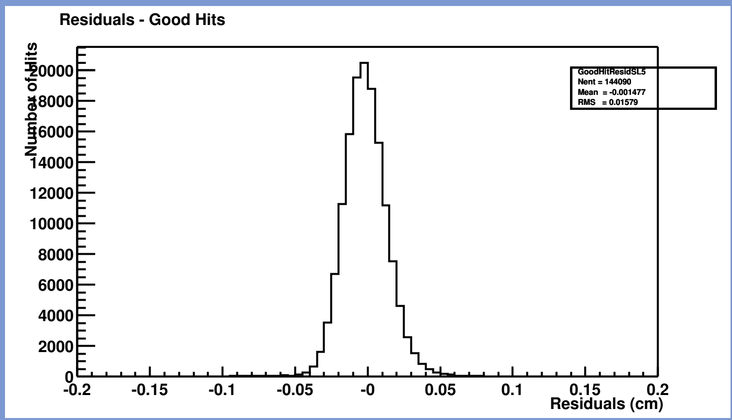


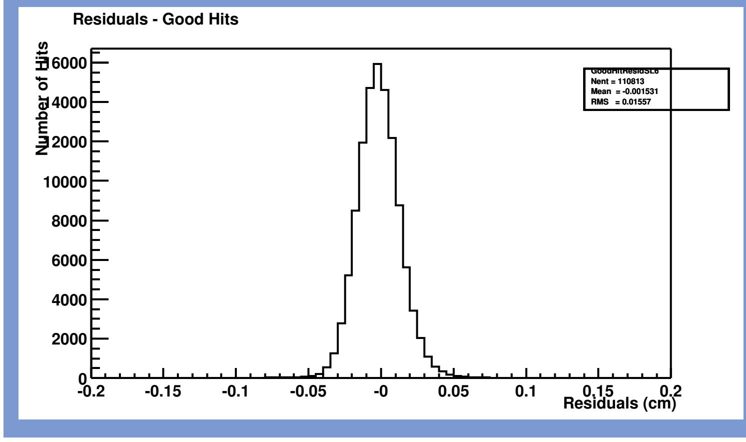


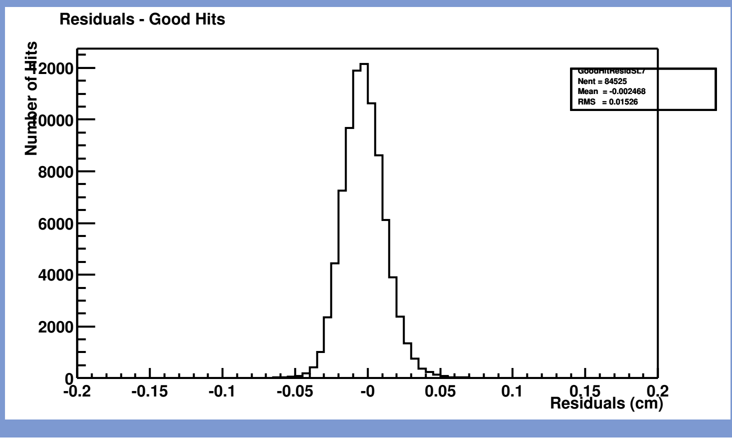






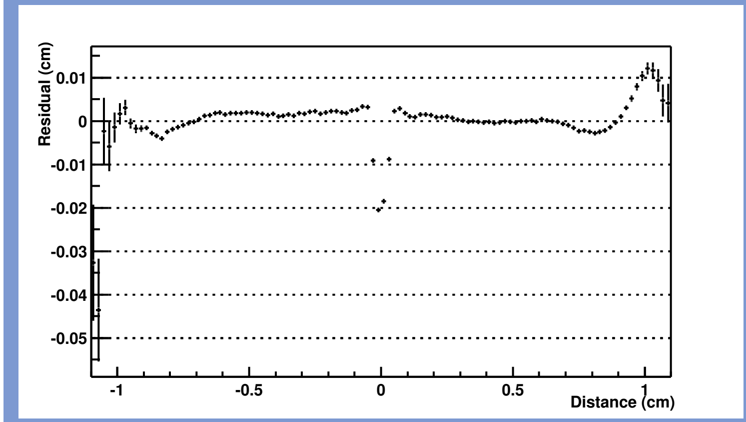


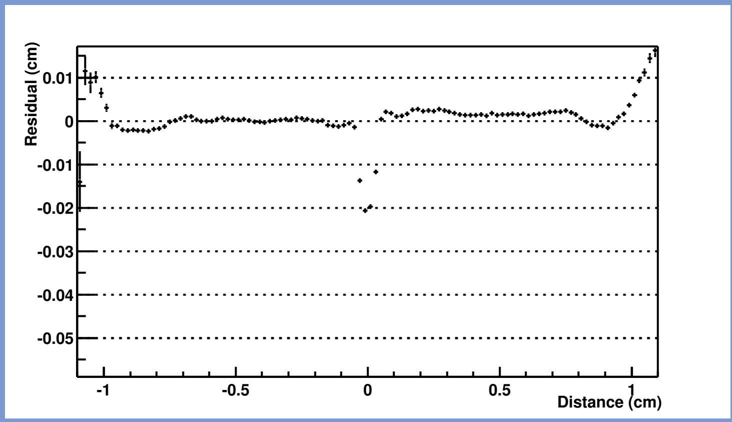


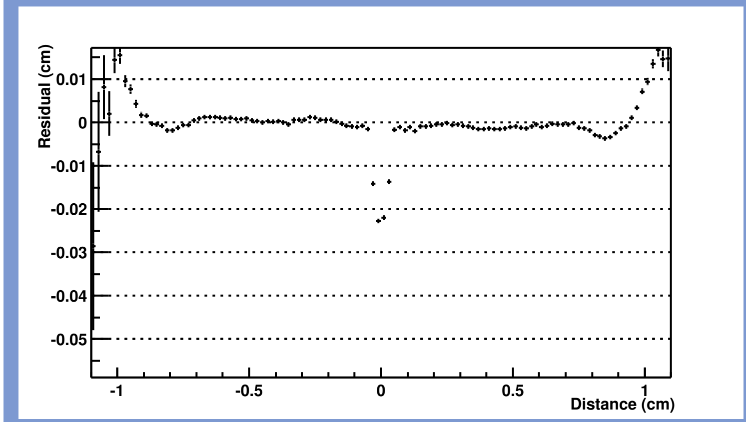


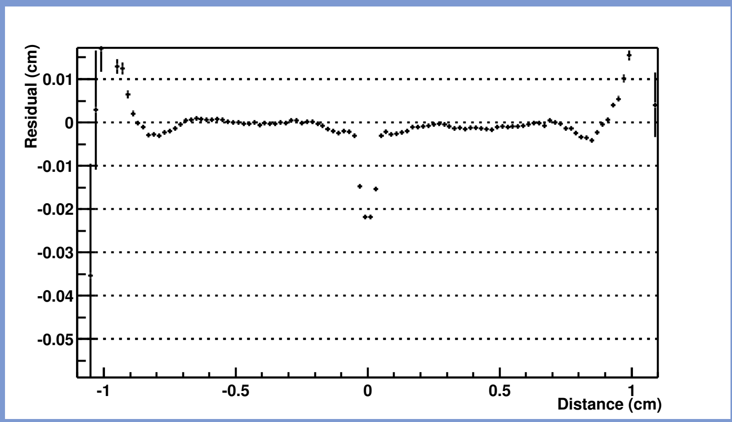
Residual vs. Dist.

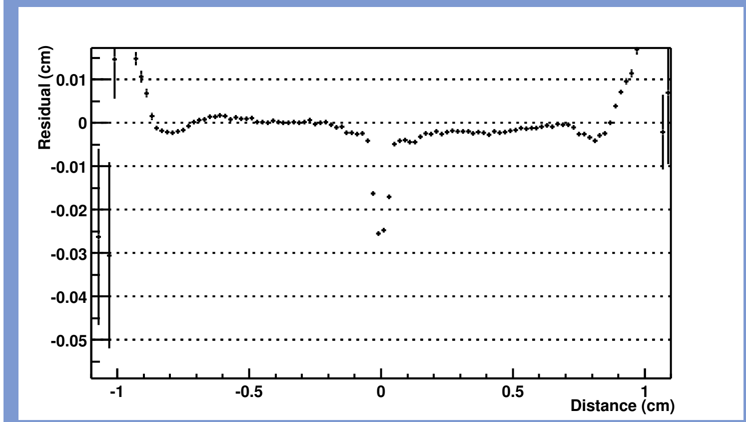
2001-10-29 20:05:32

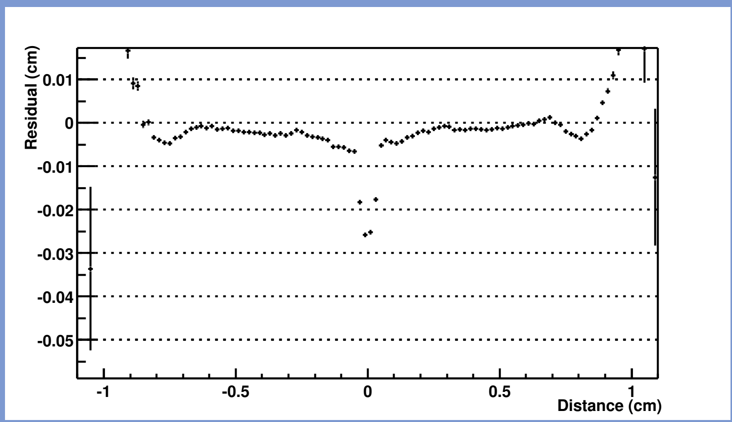


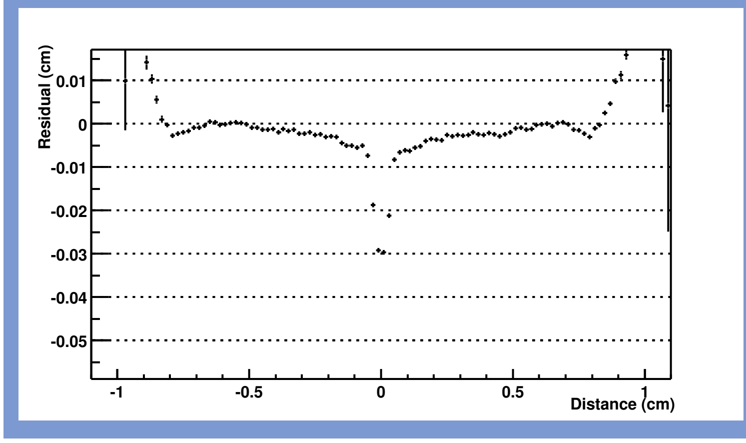


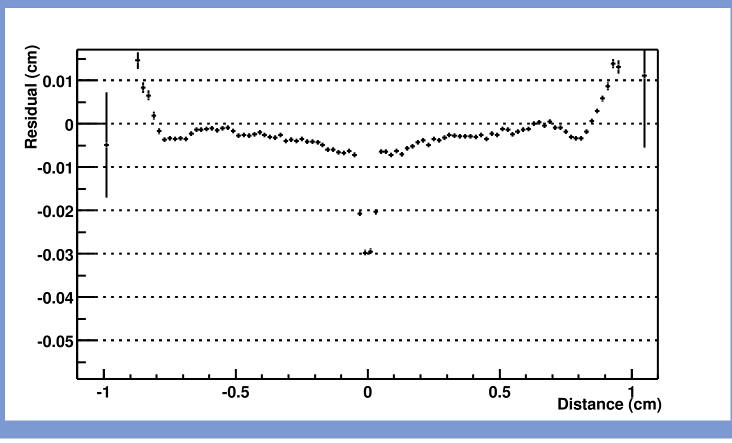






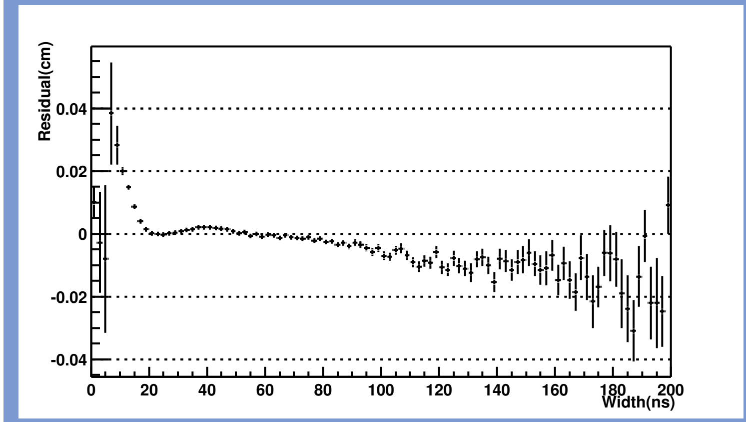


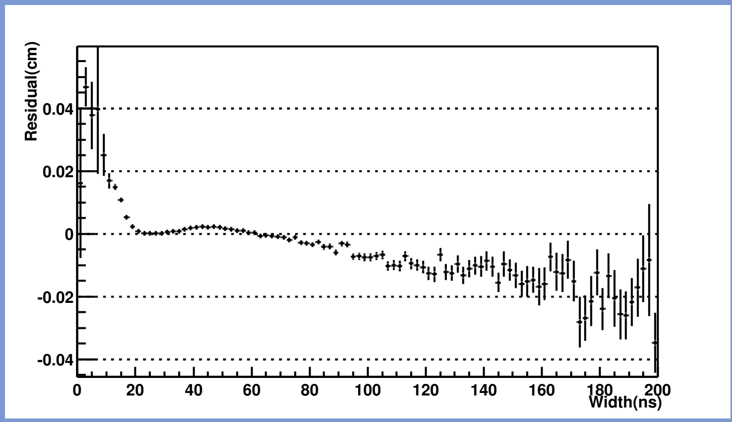


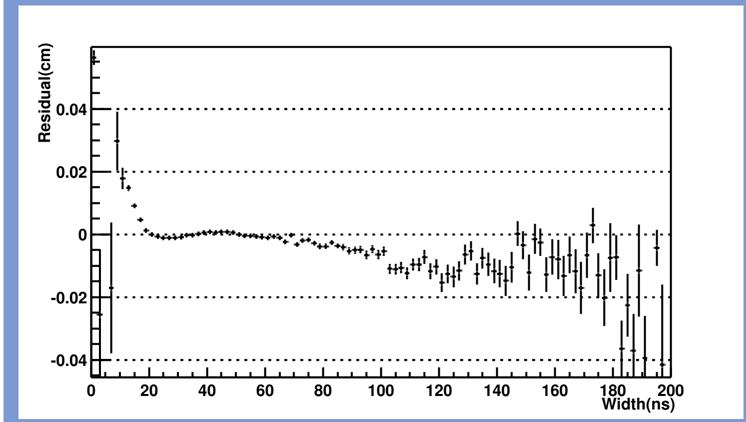


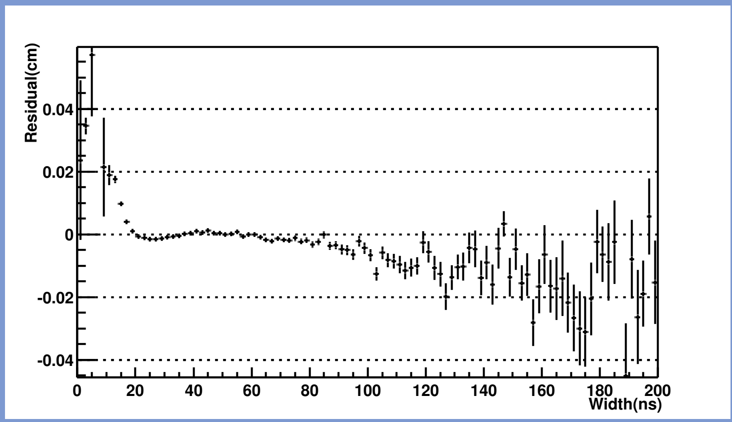
Residual vs. Width

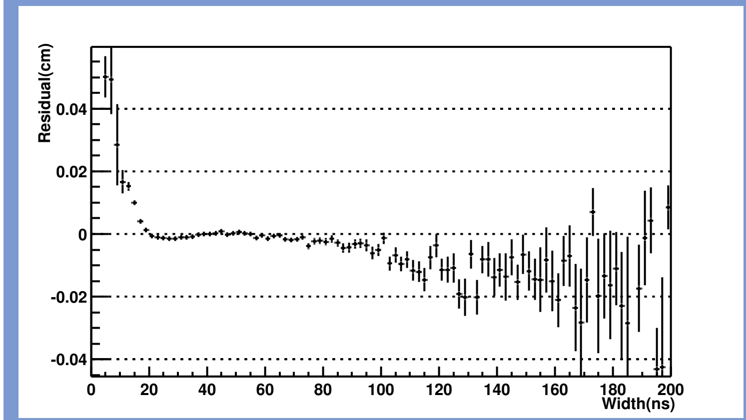
2001-10-29 20:05:33

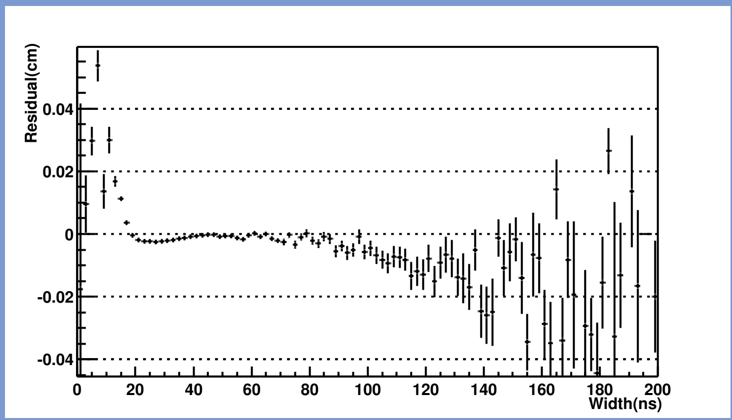


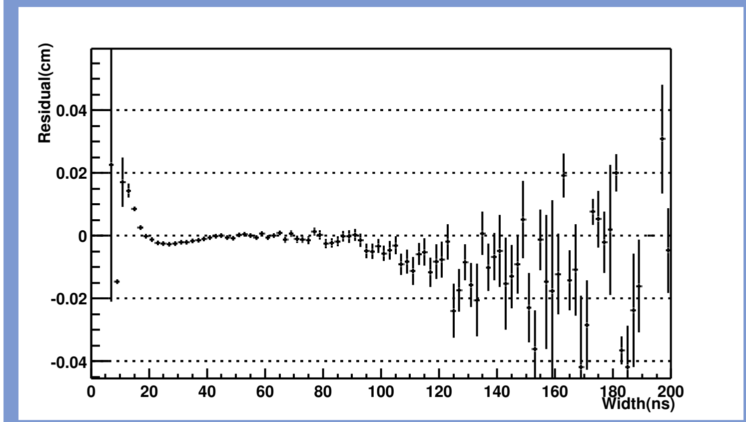


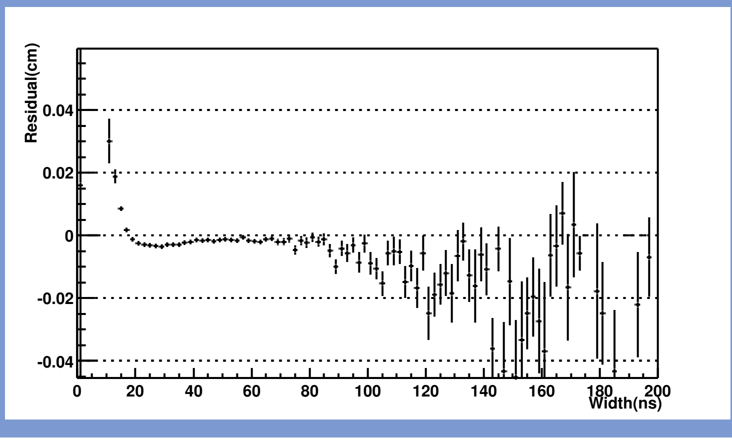






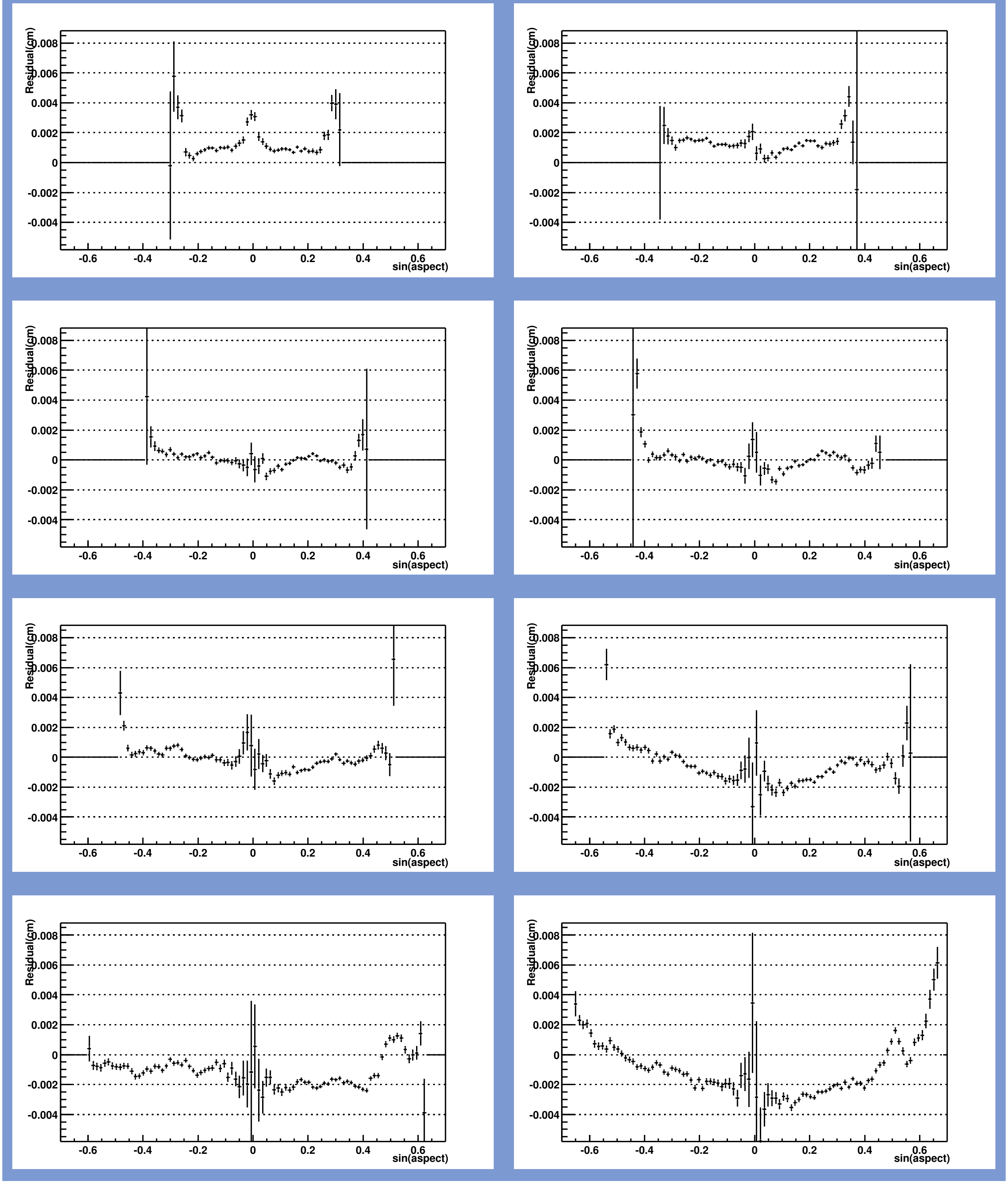






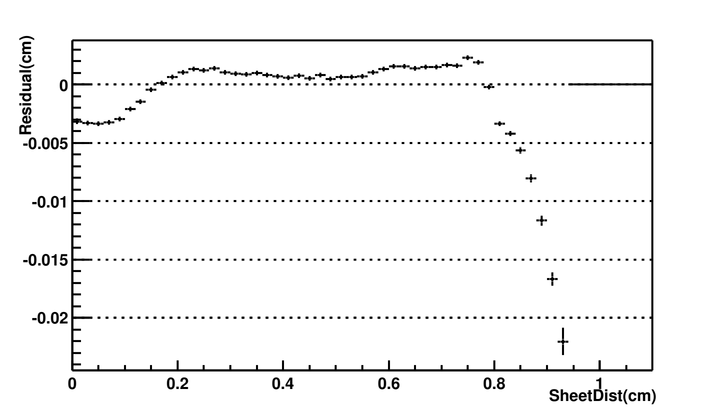
Residual vs. sin(aspect)

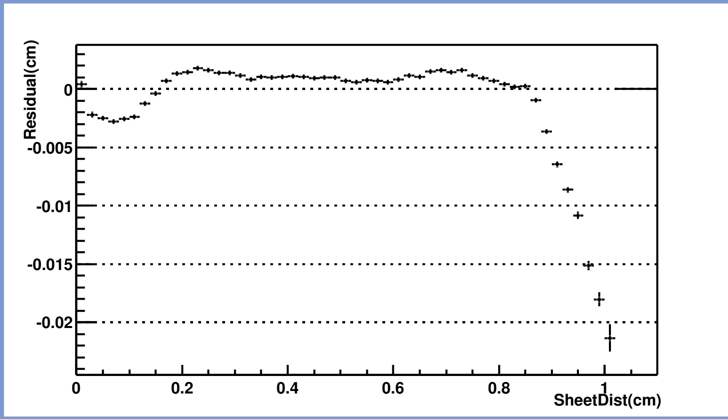
2001-10-29 20:05:34

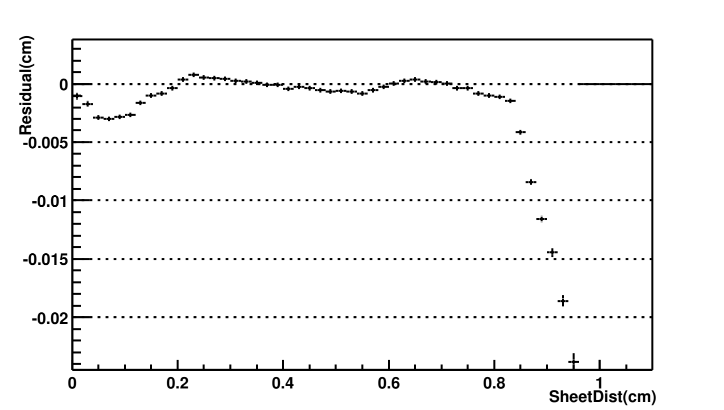


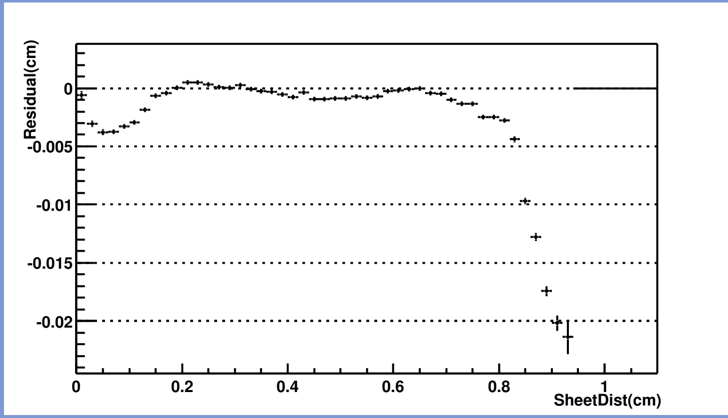
Residual vs. SheetDist

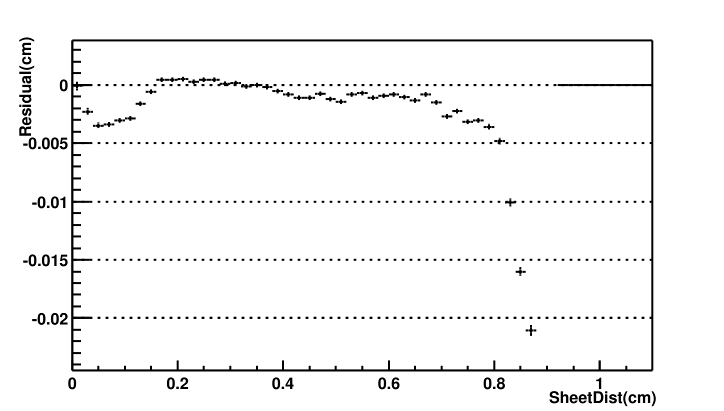
2001-10-29 20:05:35

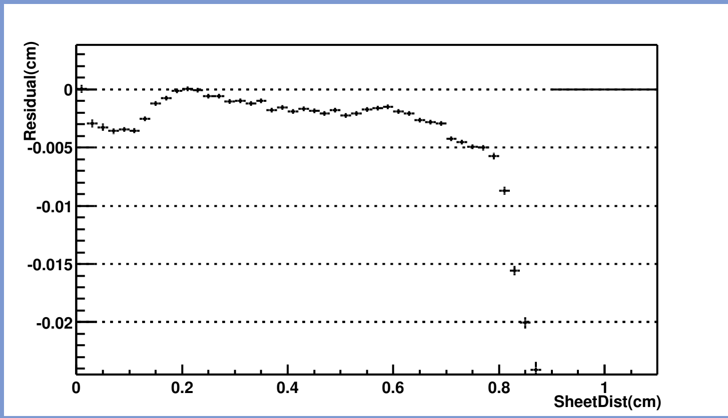


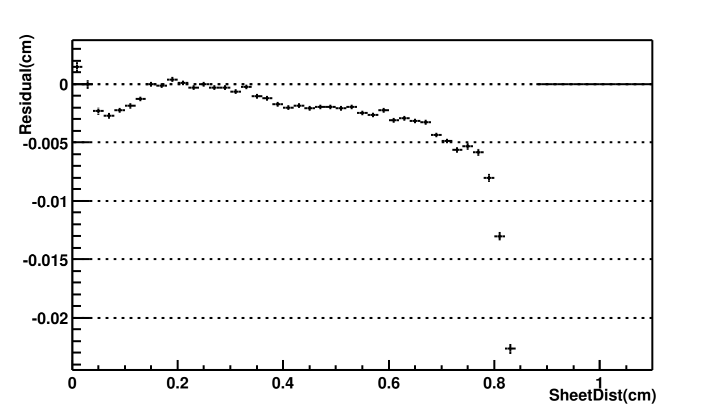


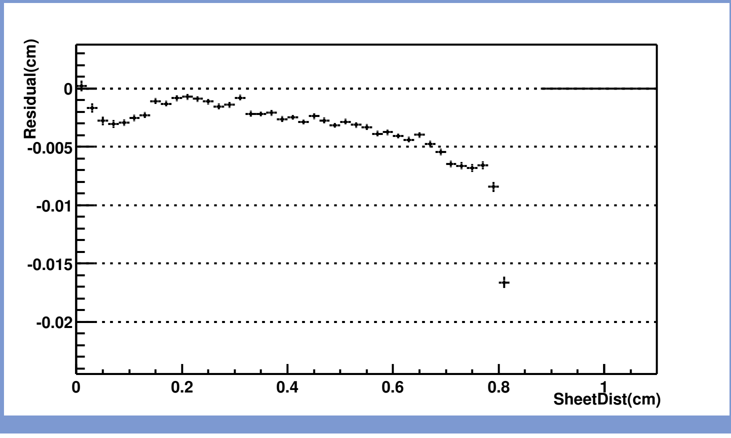












Residual vs. SheetDist Positive

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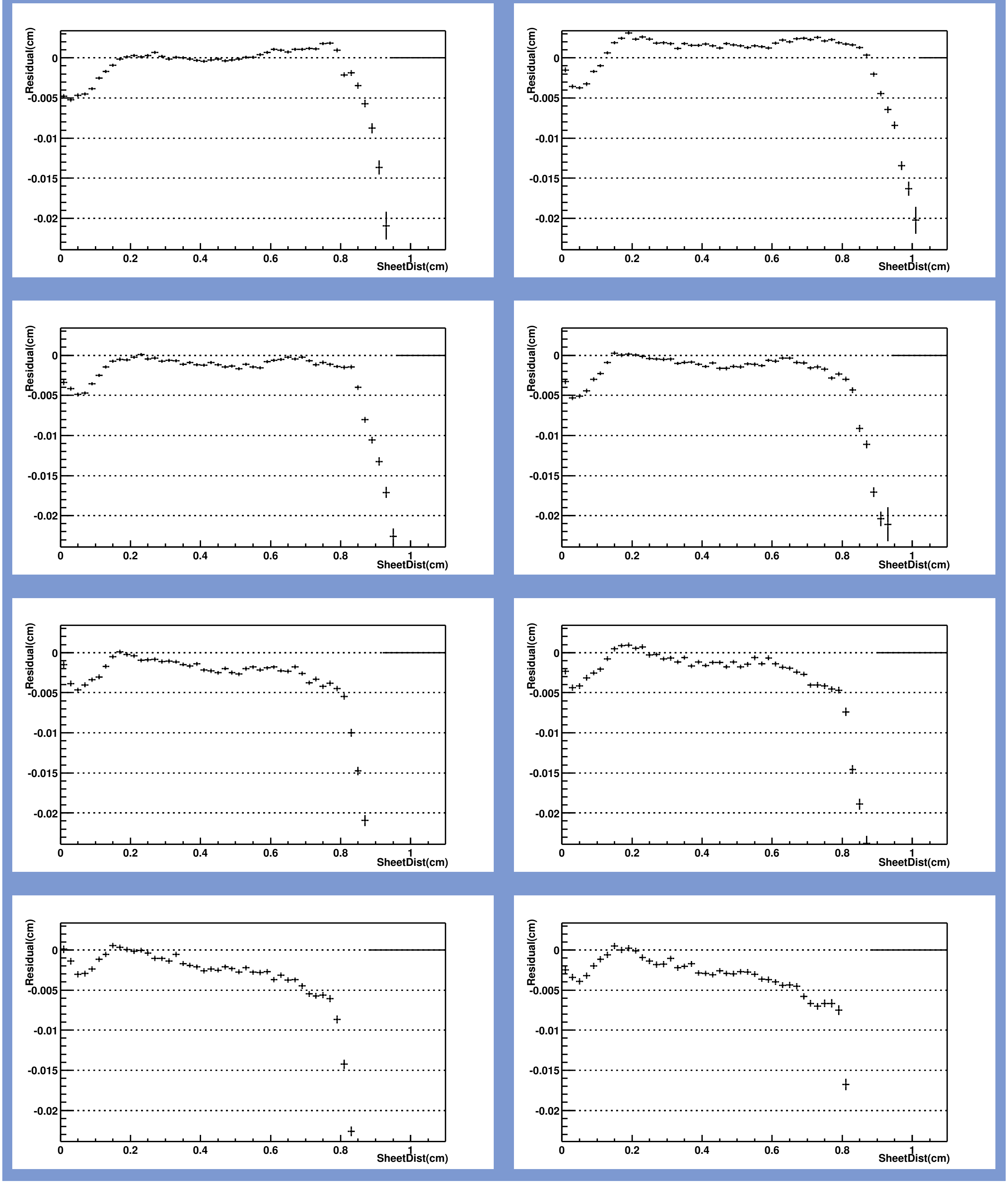

Residual vs. SheetDist Negative

2001-10-29 20:05:37