Early results with simulated, type-1, cosmic events (see below) with ideal geometry in simulation show residuals close to zero and widths near specifications.
Simulated, Type-3, events originating from the target (see below) with ideal geometry in simulation show large residuals and widths.

- Residuals in the range $140 - 200 \, \mu m$. 
SVT Testing: Simulated Events from the Target

Use the gemc particle gun to spray protons in the ranges $E_p = 4 - 8$ GeV, $\theta = 80^\circ - 120^\circ$, and all $\phi$ and reconstruct with Tracker. Magnetic field is zero and micromegas are included in the event. Residuals for layer 1 are shown below. Note the horizontal scale.

Residuals in the range 25-27 $\mu$m.
SVT Testing: Simulated Events from Cosmics

Use the \textit{gemc} particle gun to simulate cosmic rays hitting CLAS12. Magnetic field is zero and micromegas are included in the event. Require twelve crosses/layers in the event to be accepted. Distributions for all accepted events are shown below.
Use the *gemc* particle gun to simulate cosmic rays hitting CLAS12. Magnetic field is zero and micromegas are included in the event. Require twelve crosses/layers in the event to be accepted. Residuals for layer 1 are shown below. Note the horizontal scale.

Residuals in the range 40-75 $\mu m$. 
SVT Testing: Simulated Events from Cosmics Layer 2

Residuals in the range 40-90 $\mu m$. Centroids shifted in opposite direction from Layer 1.
SVT Testing: Simulated Events from Cosmics Layer 3

Residuals in the range 40-100 $\mu m$. Centroids shifts all negative.
SVT Testing: Simulated Events from Cosmics Layer 4

Residuals in the range 40-100 $\mu$m. Centroids shifts all positive.
SVT Testing: Simulated Events from Cosmics Layer 5

Residuals in the range 40-120 µm. Centroids shifts all negative.
Residuals in the range 40-120 $\mu$m. Centroids shifts all positive.
SVT Testing: Simulated Target Events, Layer 2

Residuals in the range 26-29 µm.
Residuals in the range 28-35 $\mu m$.
SVT Testing: Simulated Target Events, Layer 4

Residuals in the range 28-34 µm.

Residuals in the range 28-34 µm.
SVT Testing: Simulate Target Events, Layer 5

Residuals in the range 25-29 µm.
SVT Testing: Simulated Target Events, Layer 6

Residuals in the range 25-28 \( \mu \text{m} \).