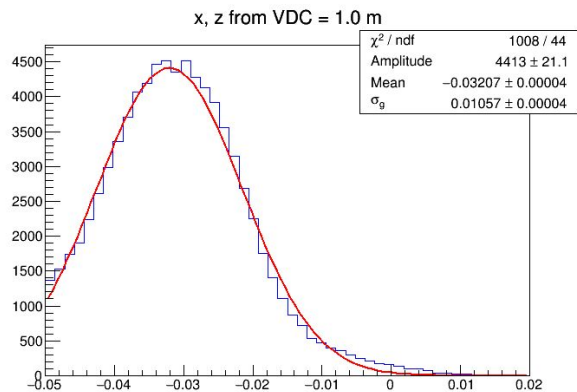


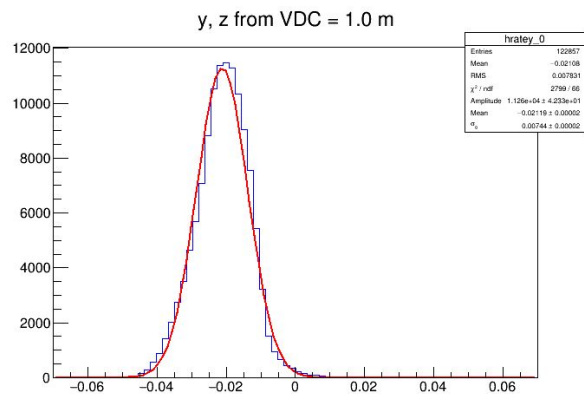
Optics Update

January 5, 2018

Gaussian Fits

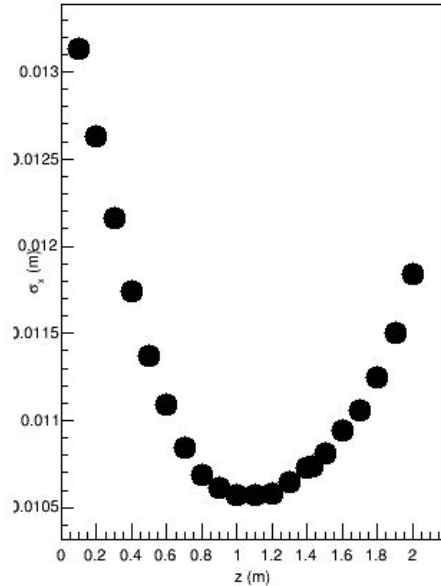


- Sample fits of tracking x, y at various z locations for lead Q² data.
- Searching for where the gaussian widths minimize
- Minimize at the same point

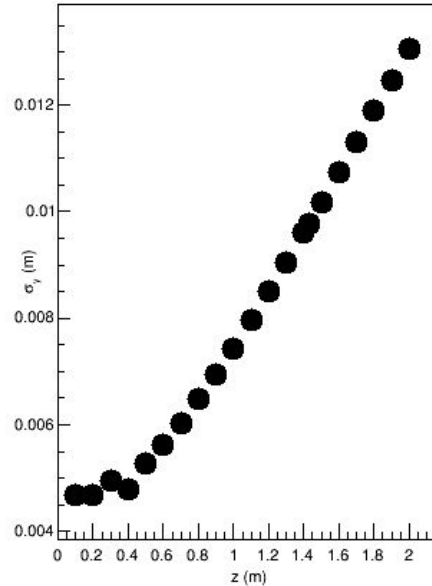


Gaussian Fits

σ_x vs. z from VDC

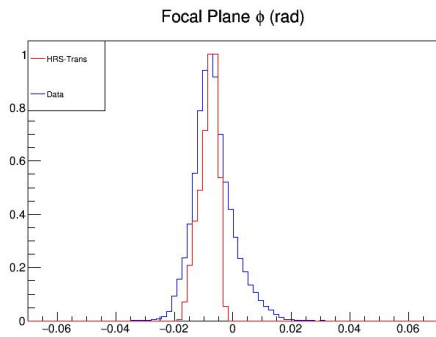
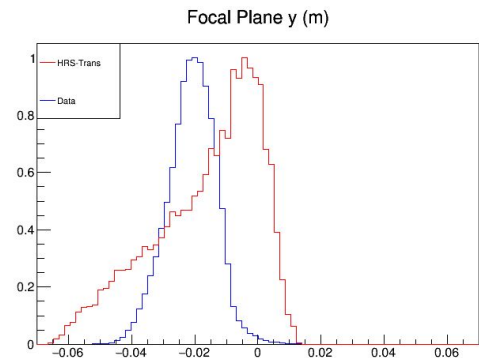
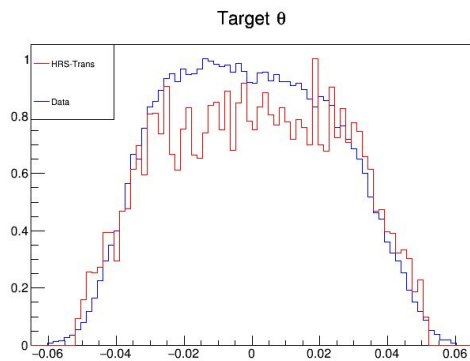
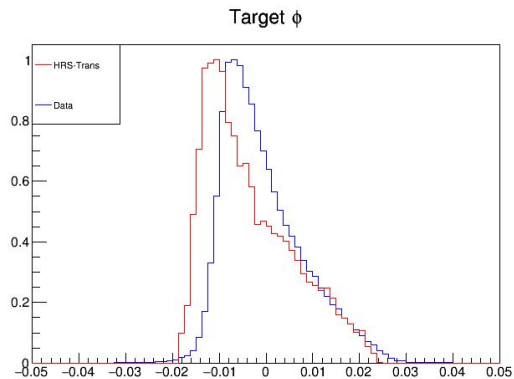


σ_y vs. z from VDC



- Gaussian width in x is minimal at $z = 1.0$ m downstream VDC
- Gaussian width in y increases as you go further downstream VDC (minimal at 0.1 m downstream)

Septum Mistune



- Temporary delta = 0.04
- Able to match where the peak is in focal plane phi, but not in focal plane y
- Weighted with full cross section including lead form factor data
- $(y|\delta) = -0.48$ & $(\phi|\delta) = -0.13$
- Still a work in progress