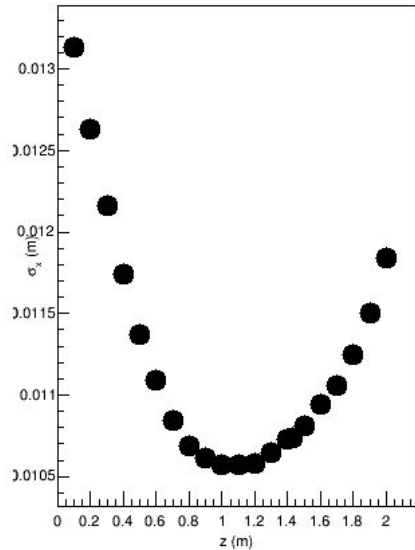


# Optics Update

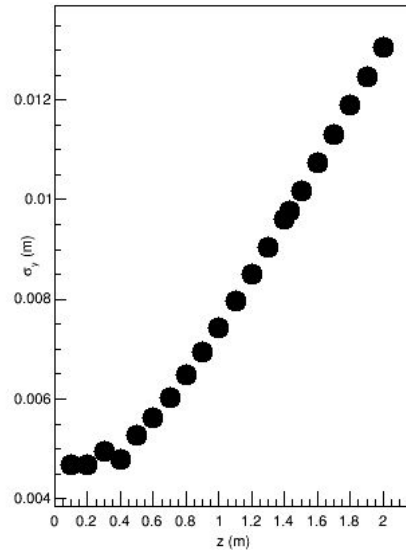
January 12, 2018

# Previously

$\sigma_x$  vs. z from VDC

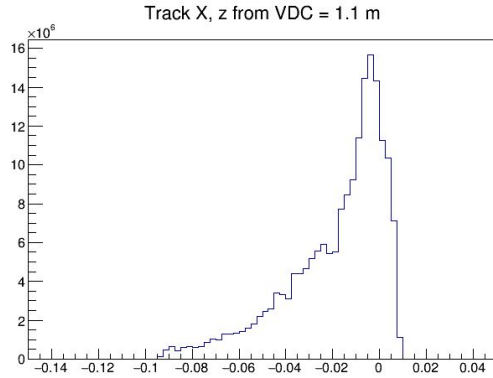


$\sigma_y$  vs. z from VDC

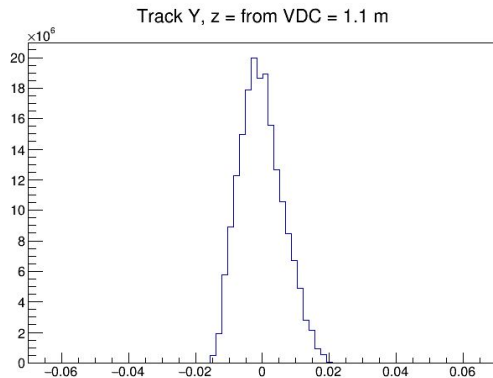


- Have done Gaussian fits to the tracking variables X and Y
- Width in tracking X minimizes at  $z = 1.0$  meter downstream the VDC
- Width in tracking Y minimizes roughly about at the VDC.
- Now we do the same with HRS Trans

# HRS Trans

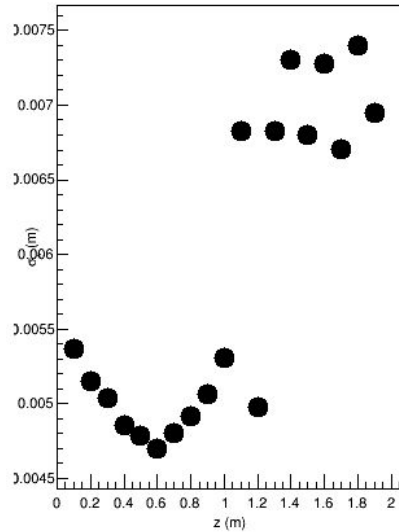


- Sample histograms of tracking variables X and Y at z = 1.1 m downstream VDC.
- These histograms are cross section weighted and here I do not include temporary delta.
- Fit these to Gaussians

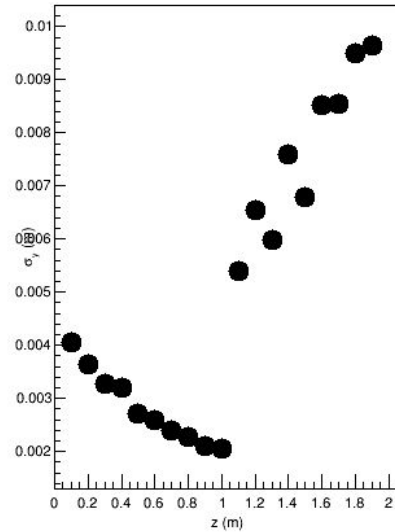


# HRS Trans

$\sigma_x$  vs. z from VDC



$\sigma_y$  vs. z from VDC



- Results of the Gaussian fits
- Minimal width in y at  $z = 1.0$  m downstream from VDC which is consistent with my tune which is 1.0m downstream VDC- focal plane in HRS Trans
- Minimal width in x to be at  $z = 0.6$  m downstream