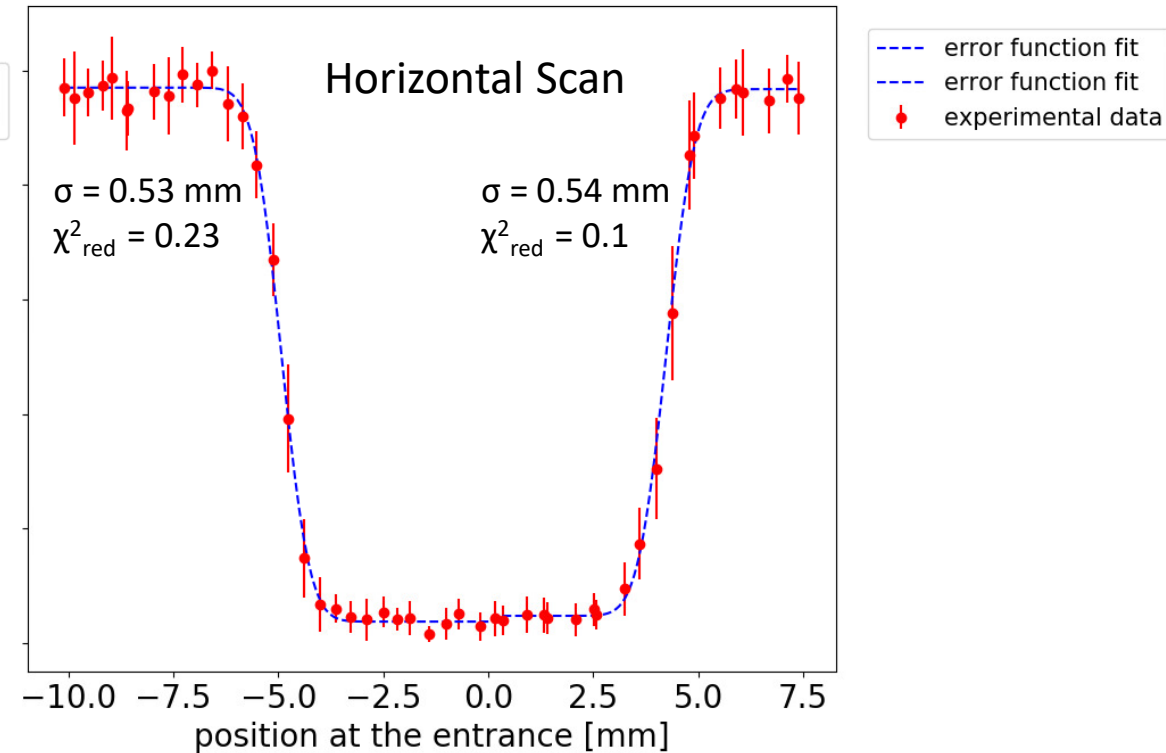
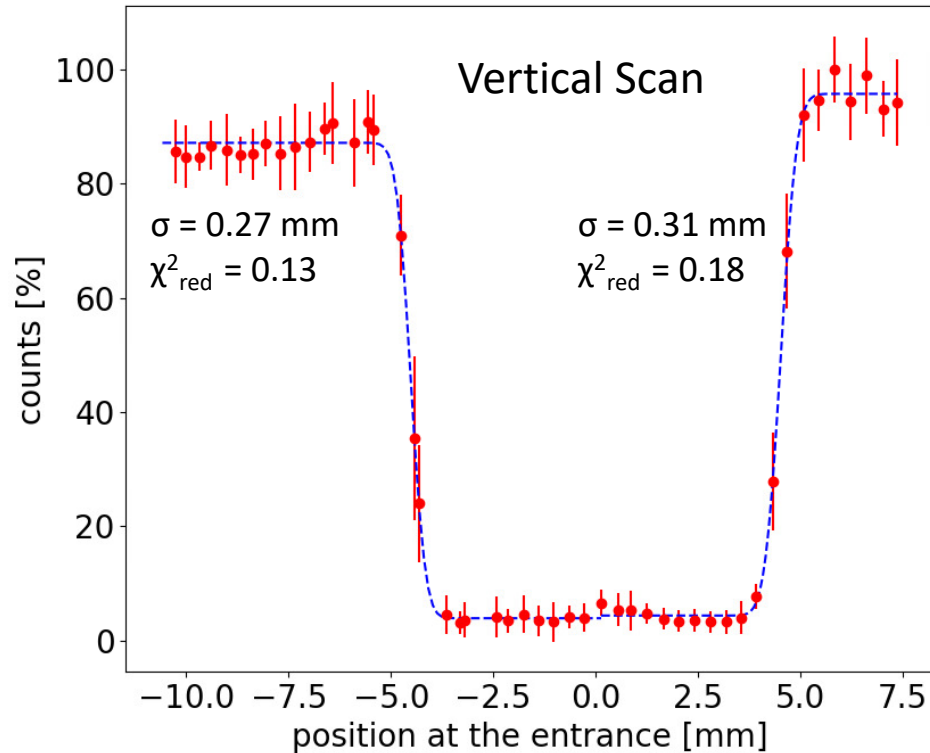


# Back to my Master's...

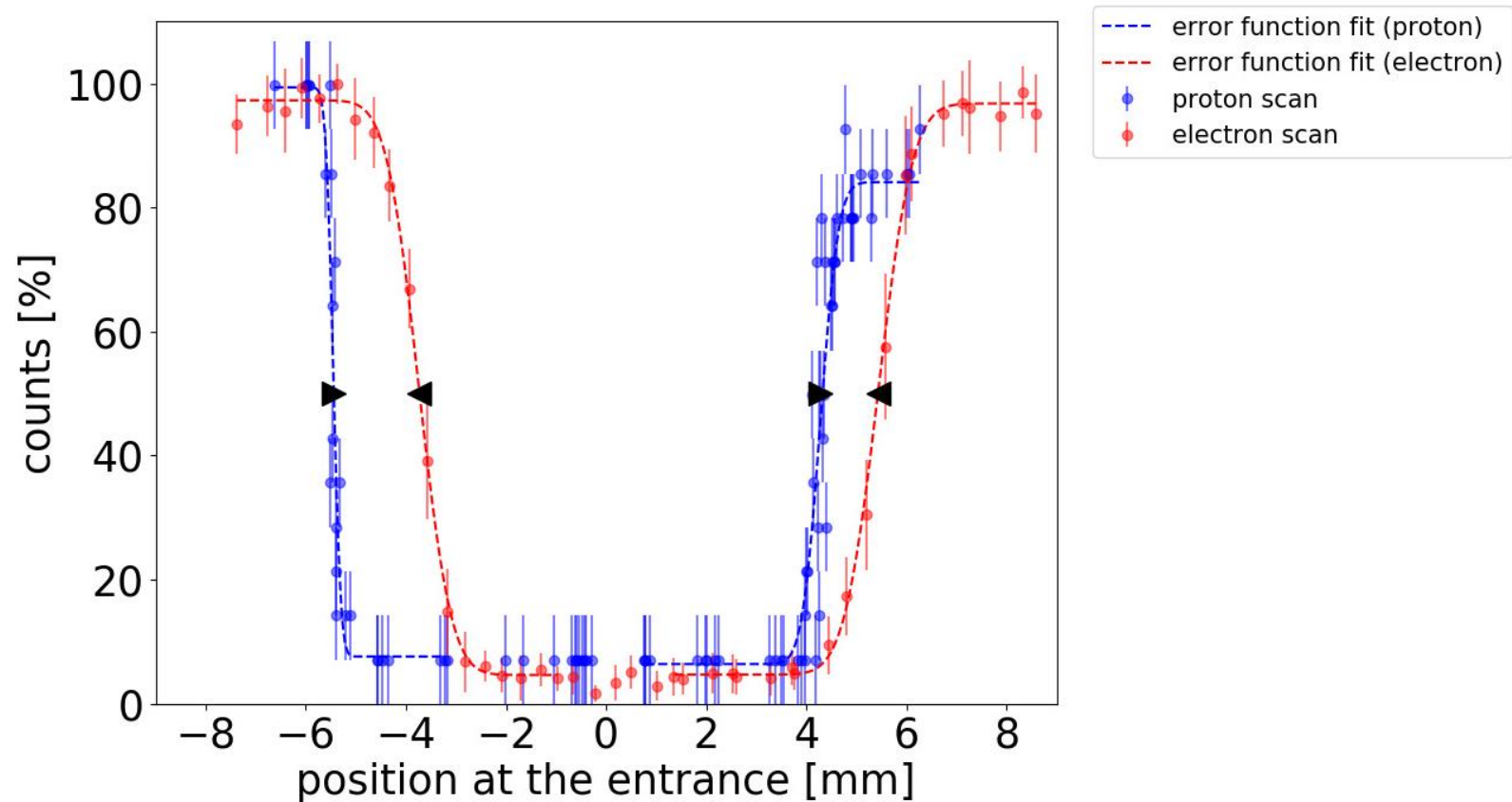
Fit electron beam scan of the entrance aperture with error function

$$\text{erf}(x, \mu, \sigma) = \frac{1}{\sqrt{2\pi\sigma^2}} \int_0^x e^{-\frac{(t-\mu)^2}{2\sigma^2}} dt$$



Effect of magnetic field on electron beam trajectory calculated as the difference between the two scans (considering proton beam trajectory straight)

- Fit both scans ramps with error functions
- Calculate the difference between the centers of ramps ( $\mu$  values)
- As sizes are different, final value is the average of the two distances.



# PhD next steps:

