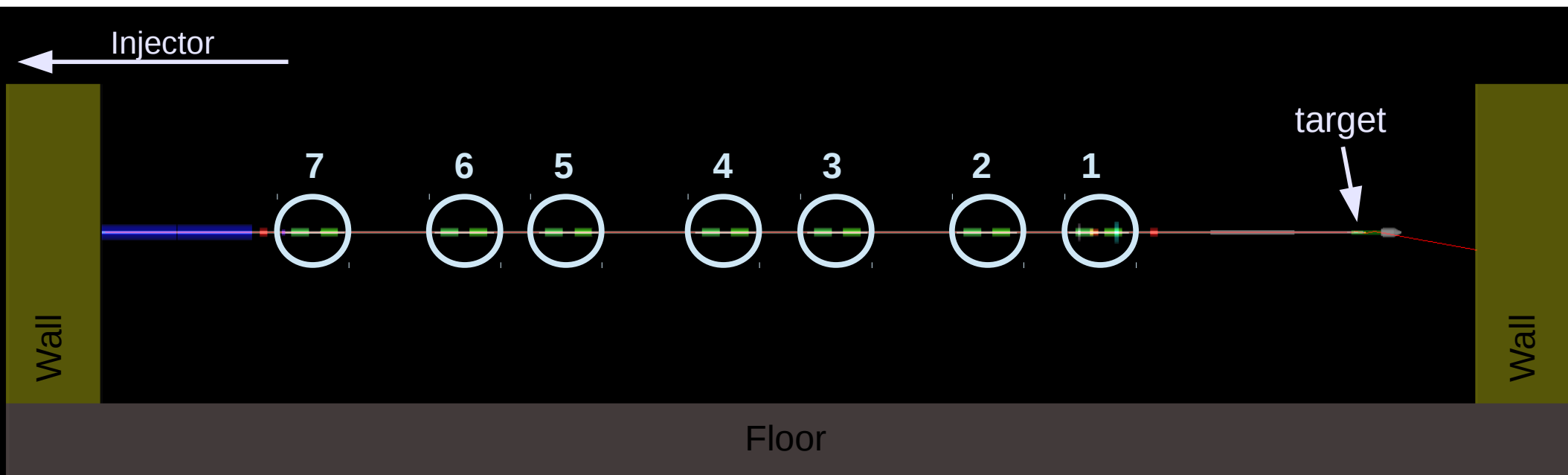


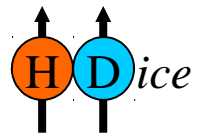
# Raster Position and Power

(for eHD in UITF)

# Method

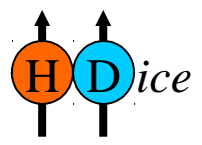
- Seven Raster positions along the beamline were used.
- For each position, the maximum Raster power (expressed as a percentage of the 6-GeV central field value, 51.2 G) was determined with the requirement that the electron makes it to the HDice target.



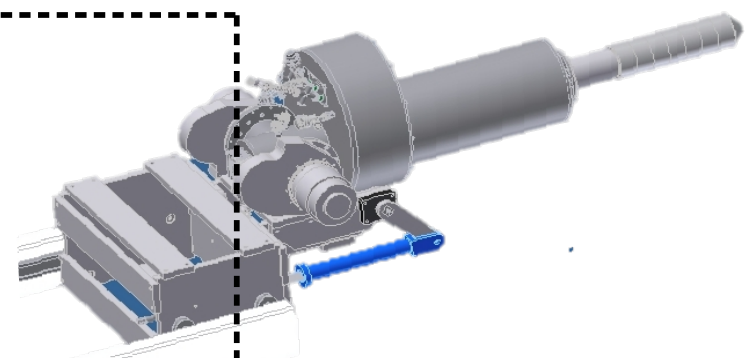
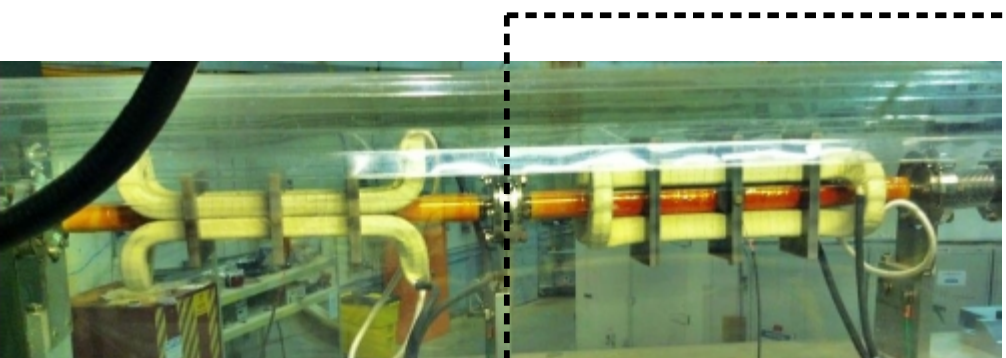
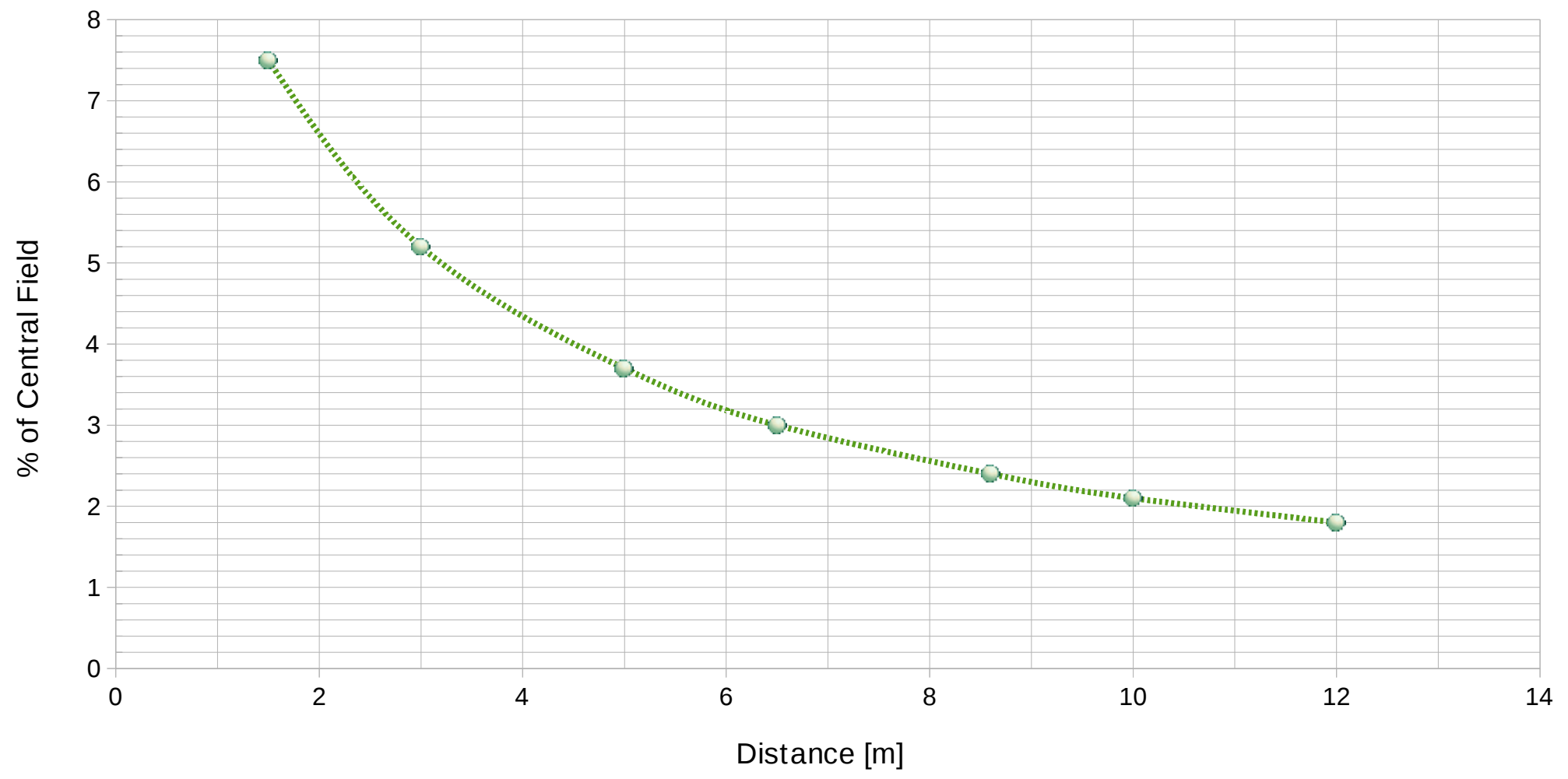


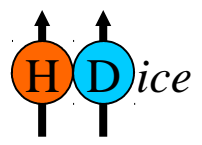
# Assumptions

- All beamline components have an ID of 2 inches (?)
- The beamline itself has an ID of 1.5 inches (?)
- Raster beam pipe has an ID of 0.75 inches (?)
- Raster aperture is 2 inches (?)
- $E_{\text{beam}} = 10 \text{ MeV}$
- $\sigma_x = 100 \text{ } \mu\text{m}$
- $\sigma_y = 100 \text{ } \mu\text{m}$



% of Central Field v. Distance [m]





# % of Central Field v. Distance [m]

