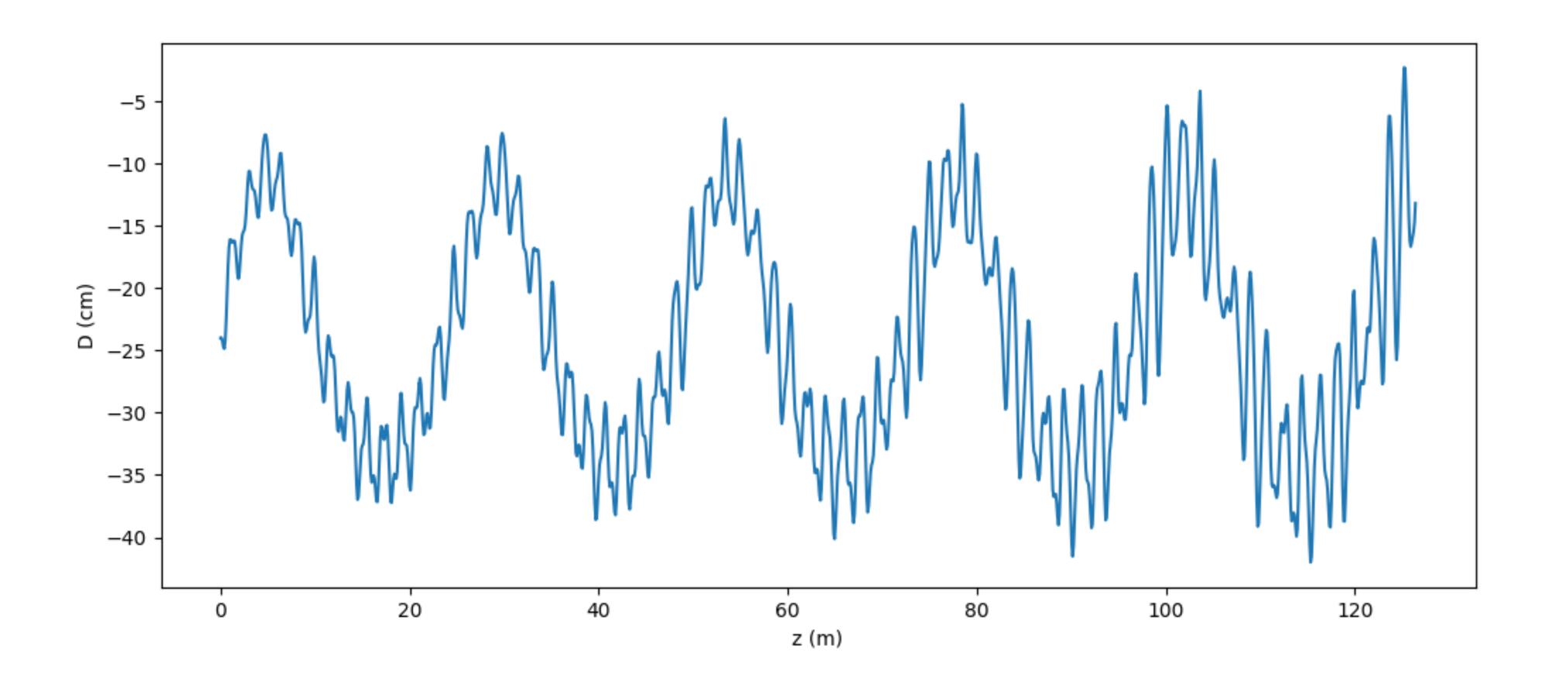
# Muon Cooling Project Updates

May 2, 2025

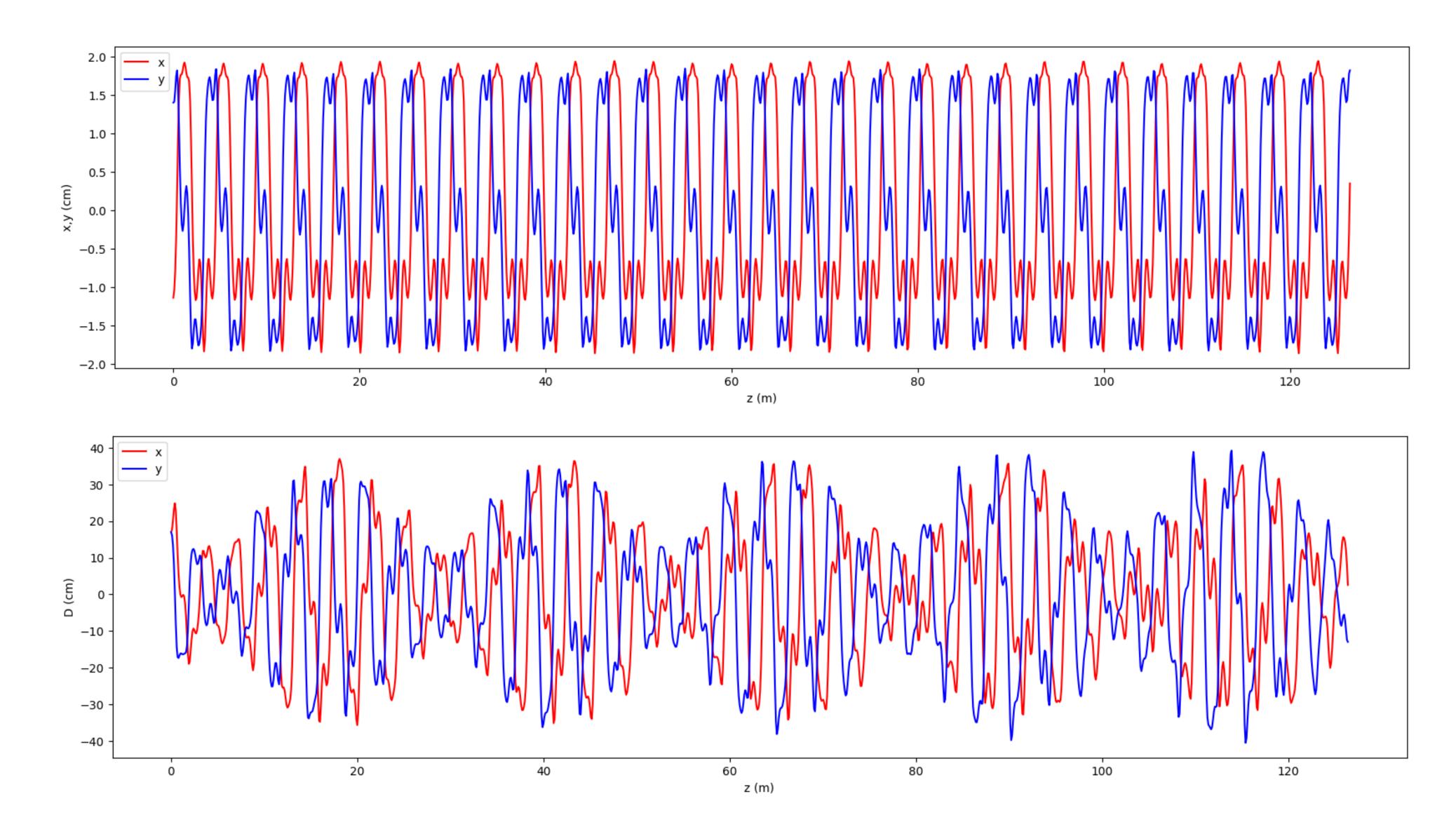
#### Progress from this week

- Predominantly worked on preparing my IMCC talk
  - I would like to go over some of my slides today if there is time!
- Continued investigation of dispersion and beta function
  - No improvement on fits
  - Trying to characterize what makes the HFOFO dispersion scheme unique

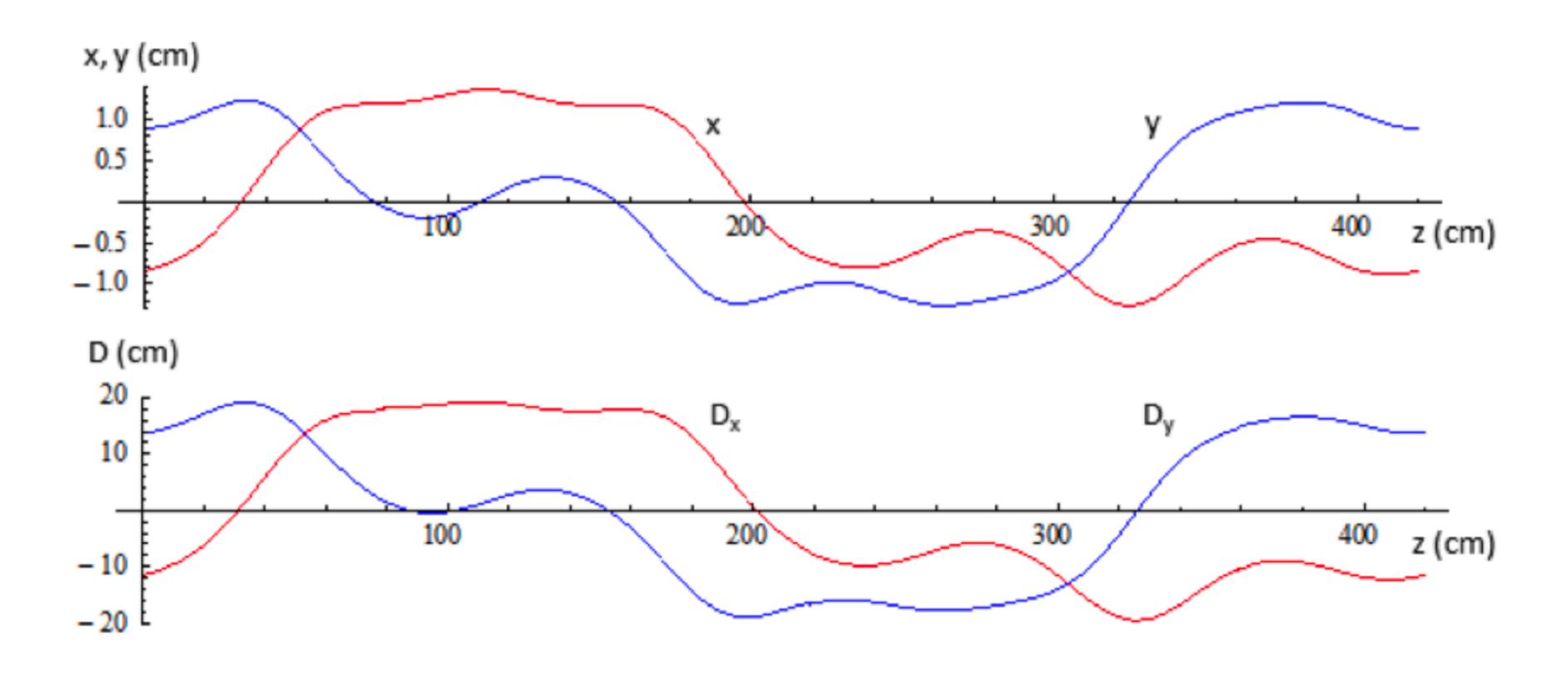
# Dispersion (full channel)



### Dispersion (full channel)

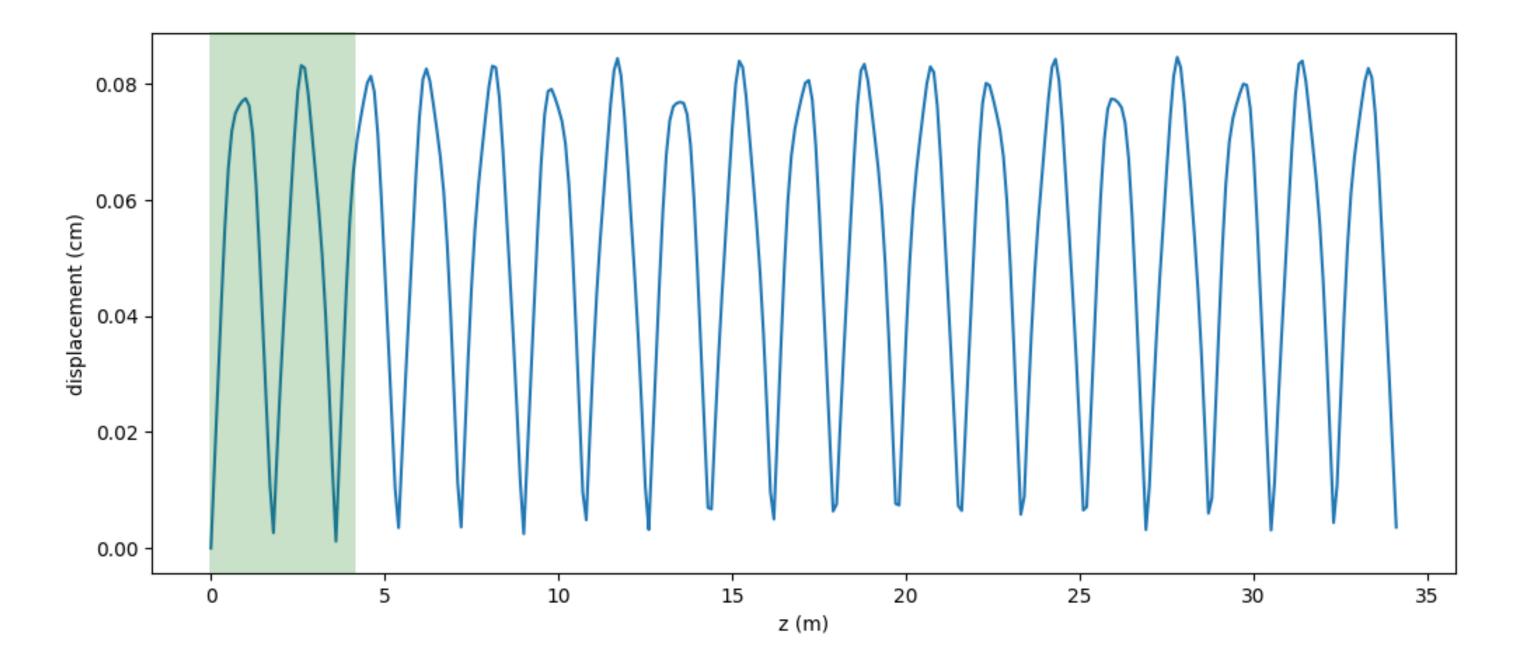


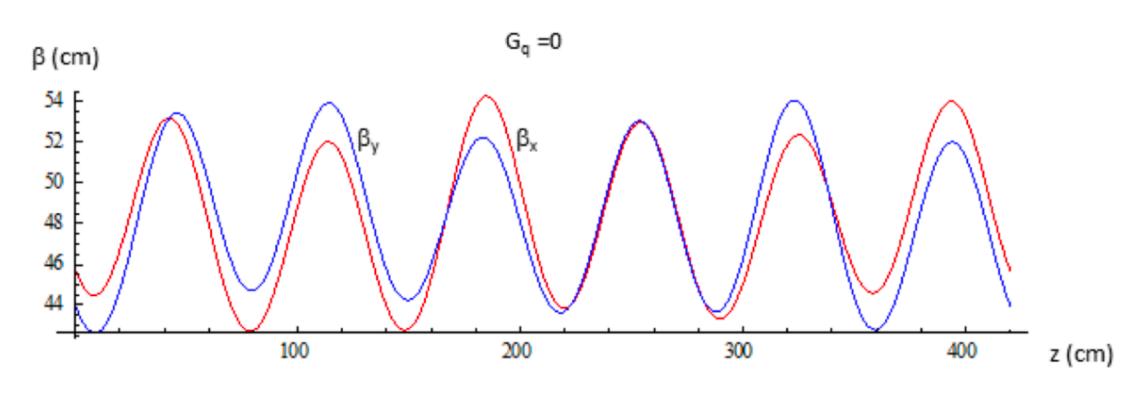
## Dispersion (full channel)



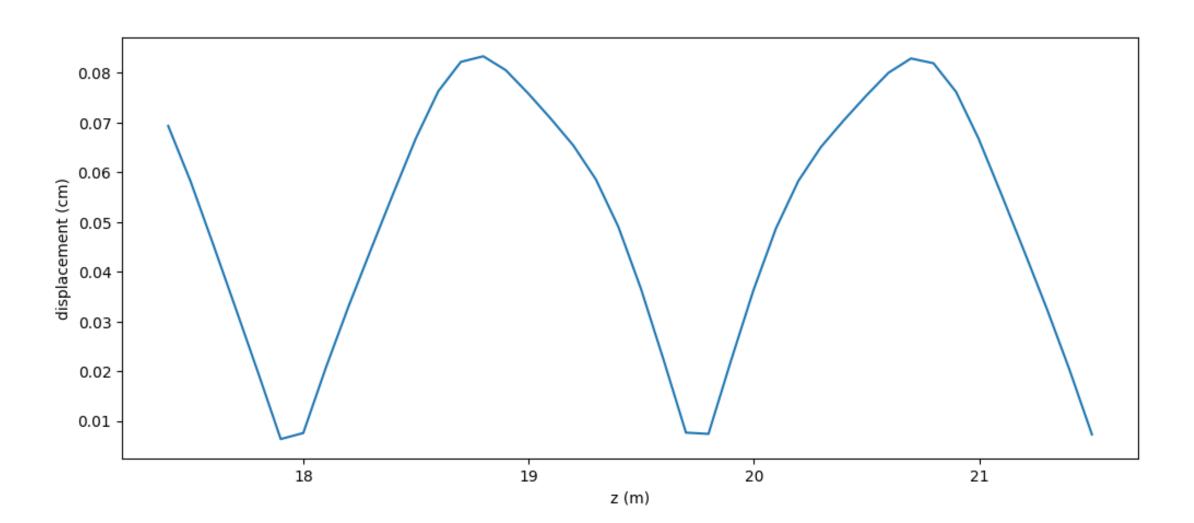
From Yuri's paper

#### Beta function





From Yuri's paper



Simplified channel sim

#### Next steps

- Investigate linearity with momentum scan
- Run beam to study phase space evolution and beta function
  - Using ECALC9
- Add RF and absorbers