

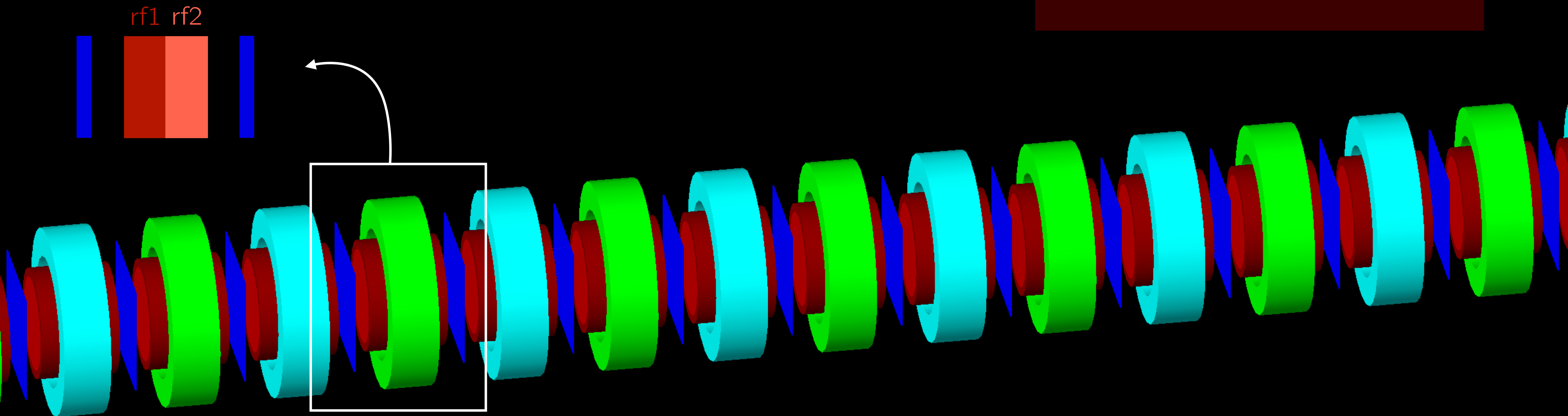
Updates on the HF0F0 Project

Last two weeks

We are now very close to having a fully
6D periodic design!

PROCEDURE:

- Add in small amount of absorber
- > Tune RF timing until energy vs. z is periodic
- > Iterate to find initial conditions that generate periodic orbit

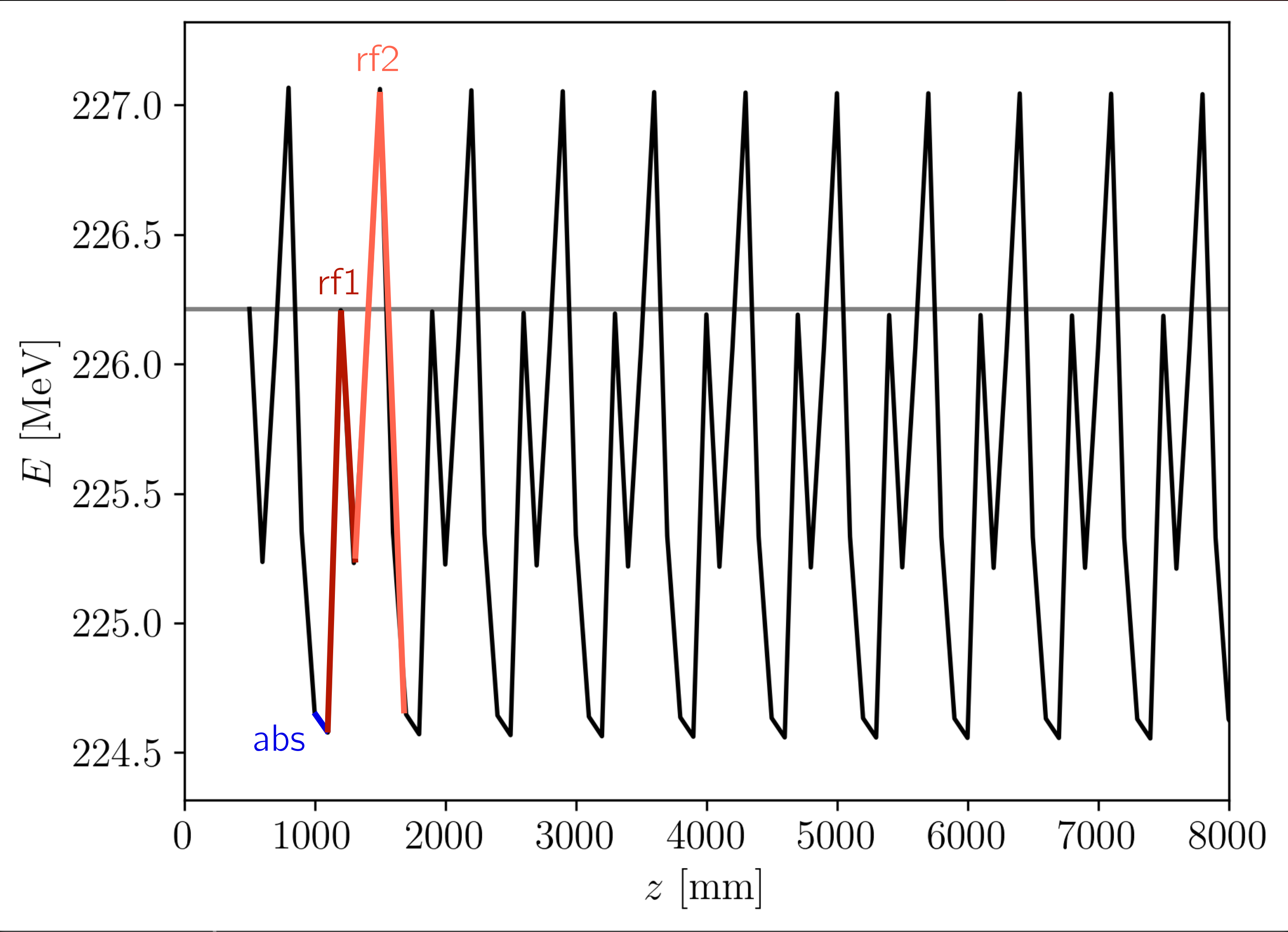


Updates on the HF0F0 Project

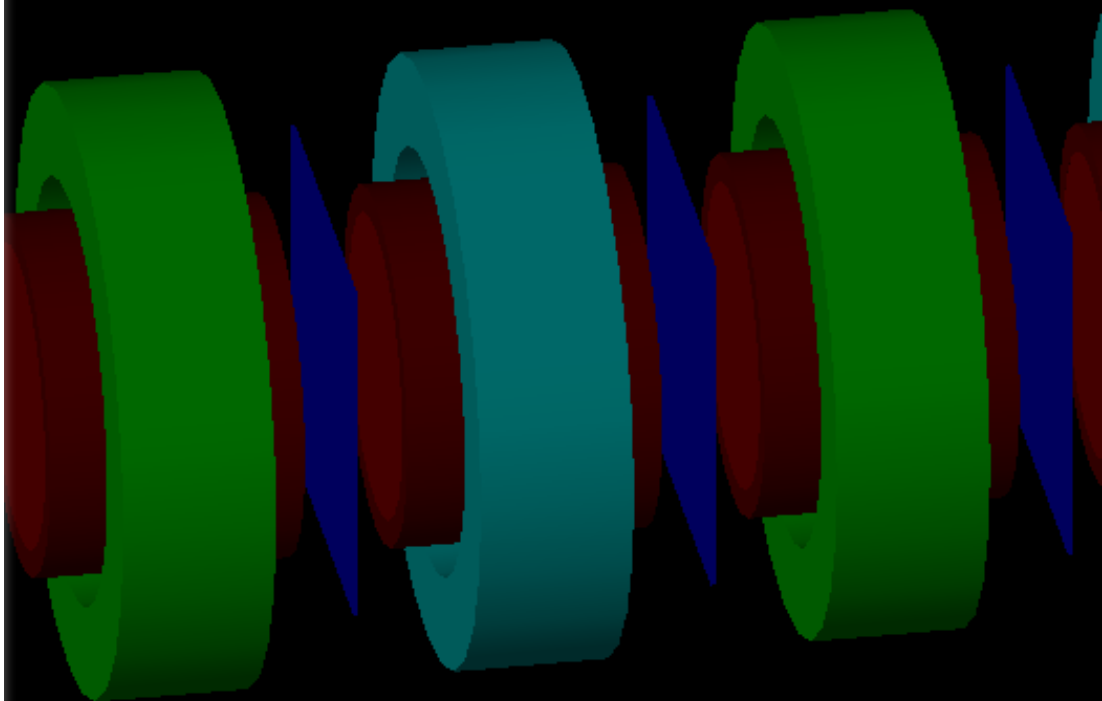
PROCEDURE:

Last two weeks

We are now
6D



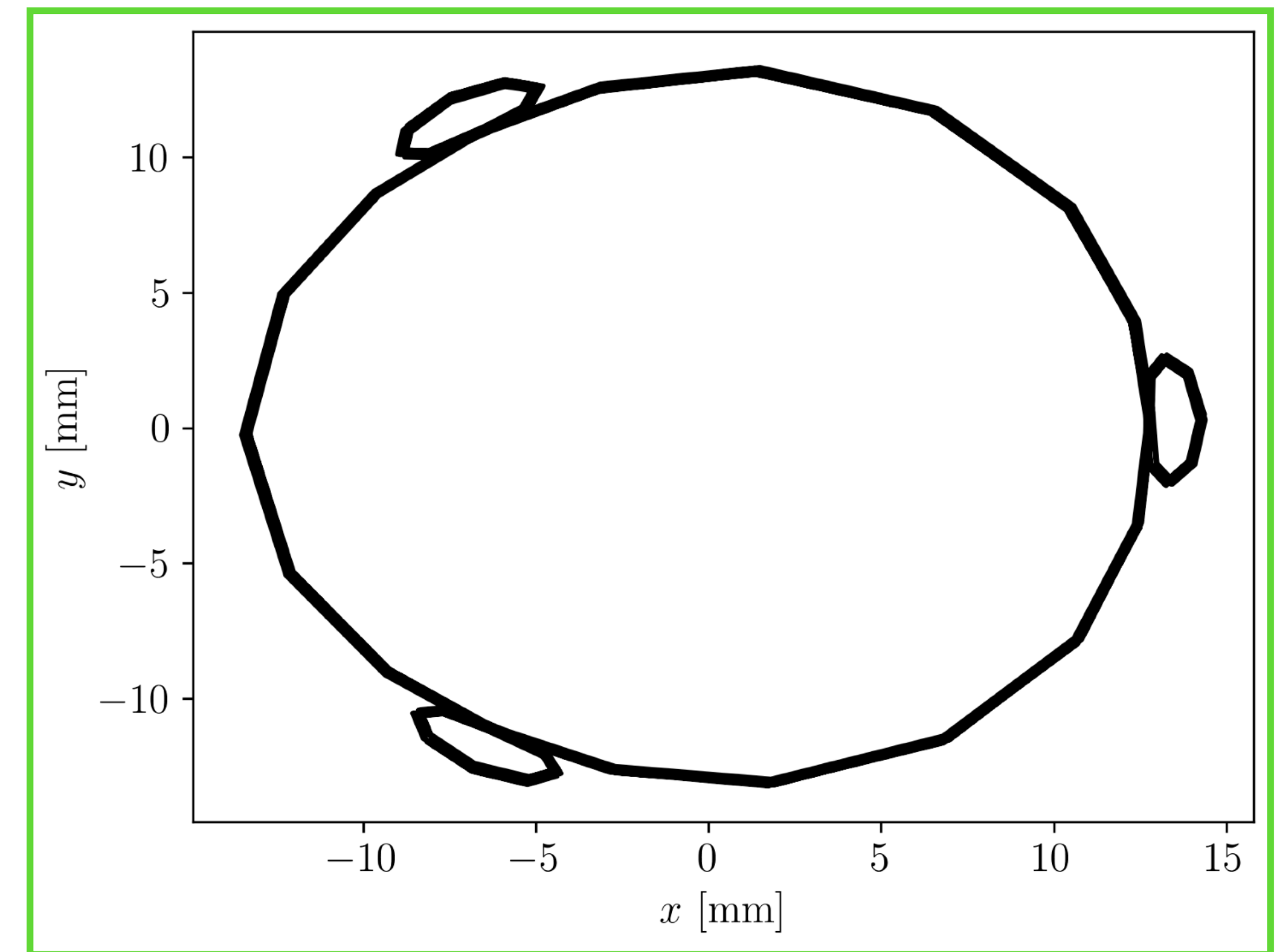
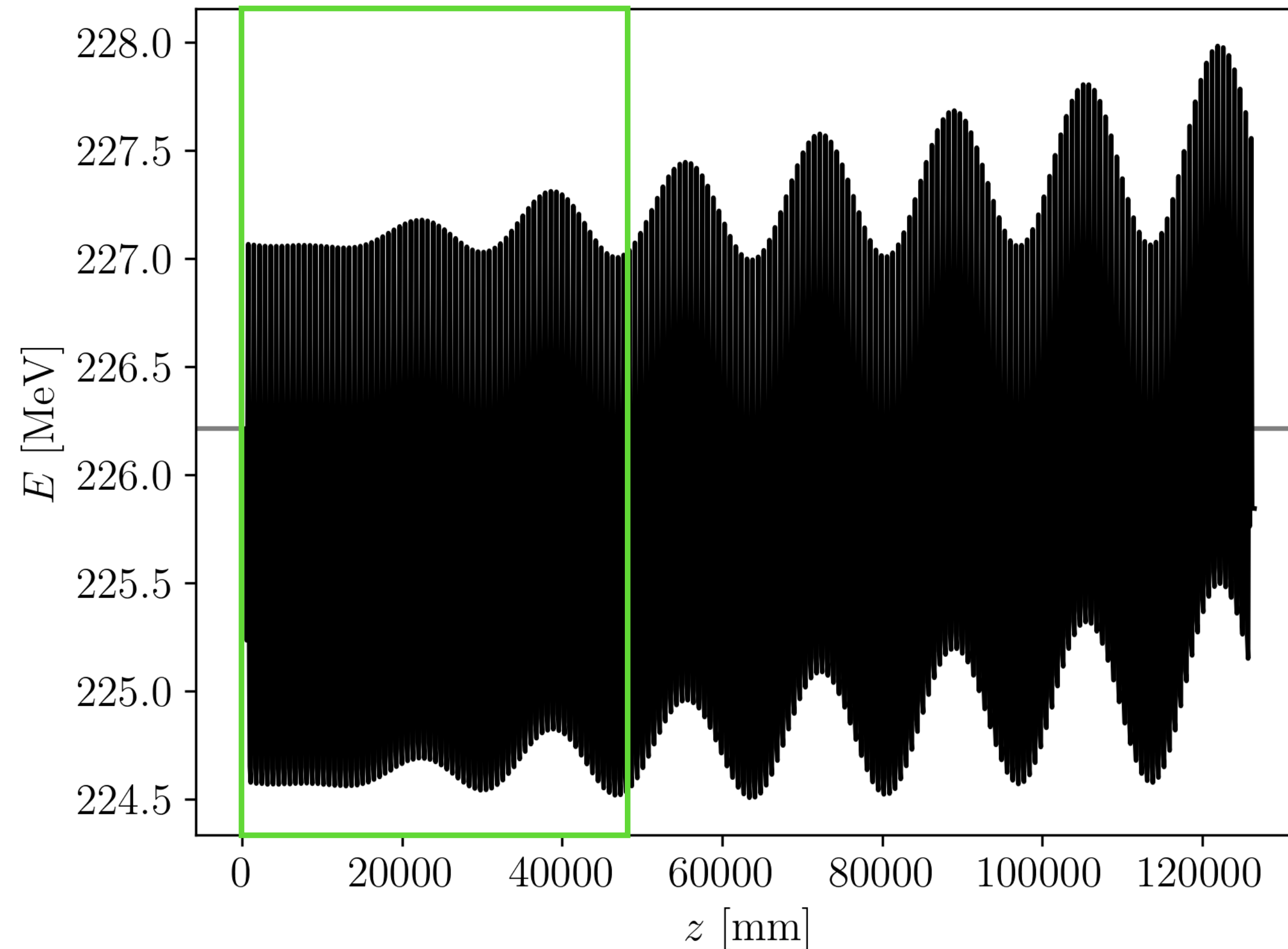
amount of absorber
tuning until energy vs. z
periodic
find initial conditions
ste periodic orbit



Updates on the HF0F0 Project

Last two weeks

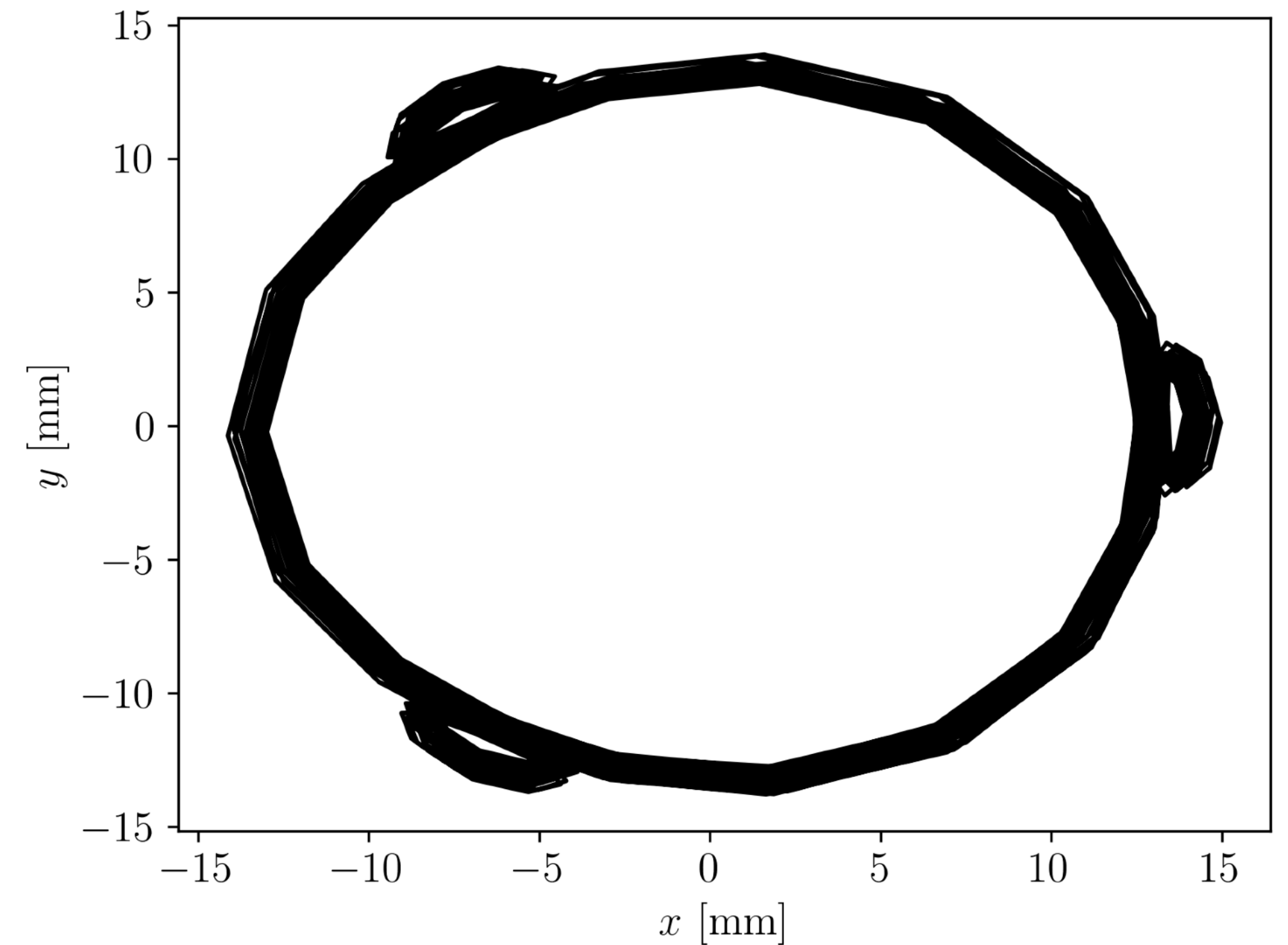
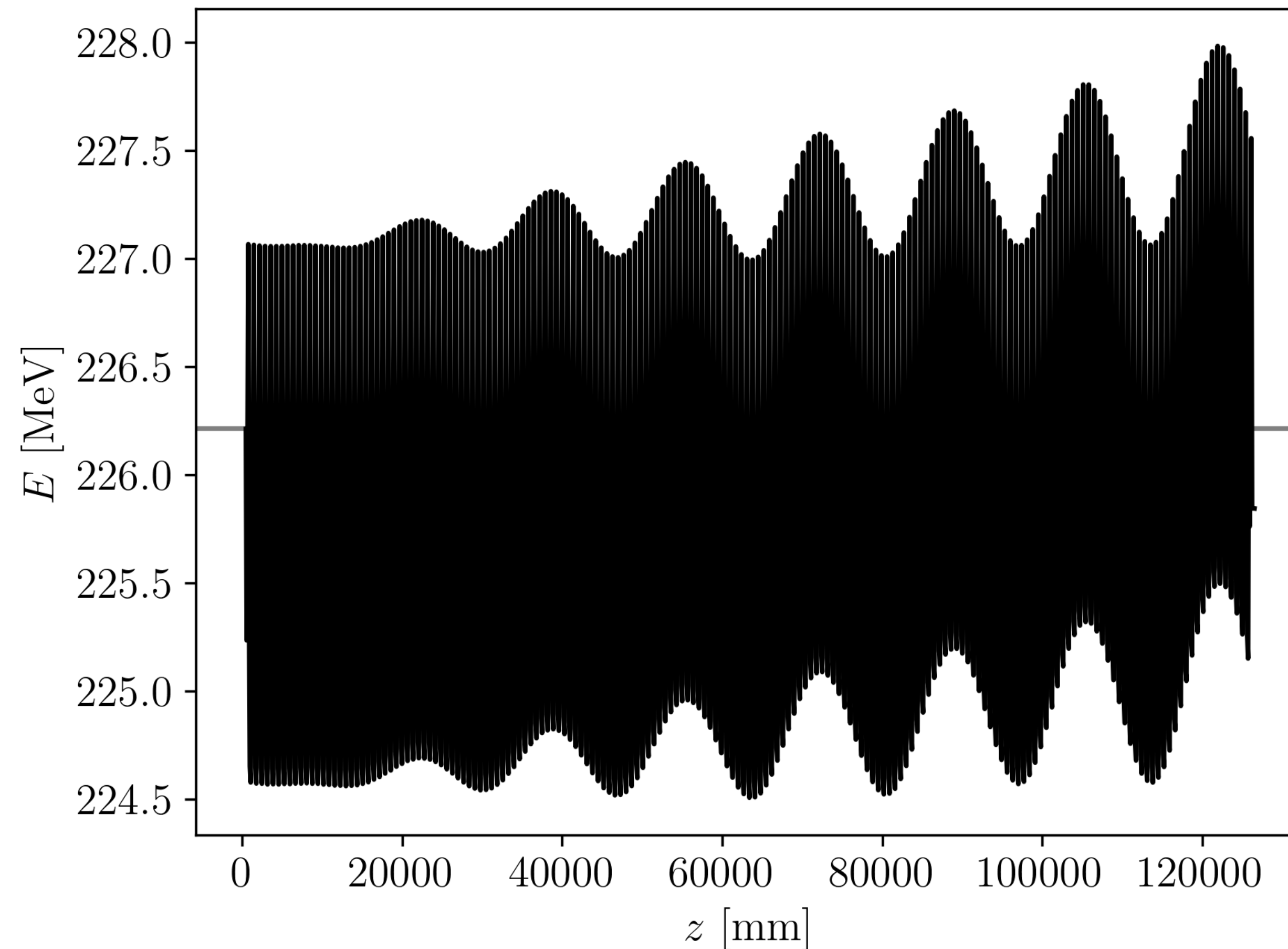
w/ 10mm absorbers & full RF
gradient (25 MV/m)



Updates on the HF0F0 Project

Last two weeks

w/ 10mm absorbers & full RF
gradient (25 MV/m)



Updates on the HF0F0 Project

Next two weeks

- ☐ Address issues arising in later portion of channel that drive orbit away from initial periodic solution —> start by **adjusting rf timings** until linear
- ☐ Resume pedagogical exercise / calculation of **betatron** and **sychrobetatron** tunes
- ☐ Technically end μ CATALYST appointment on 8/31 (but continuing this work!)

