

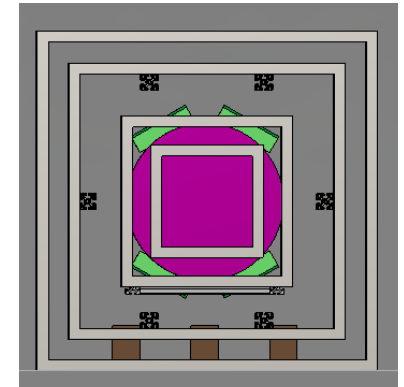
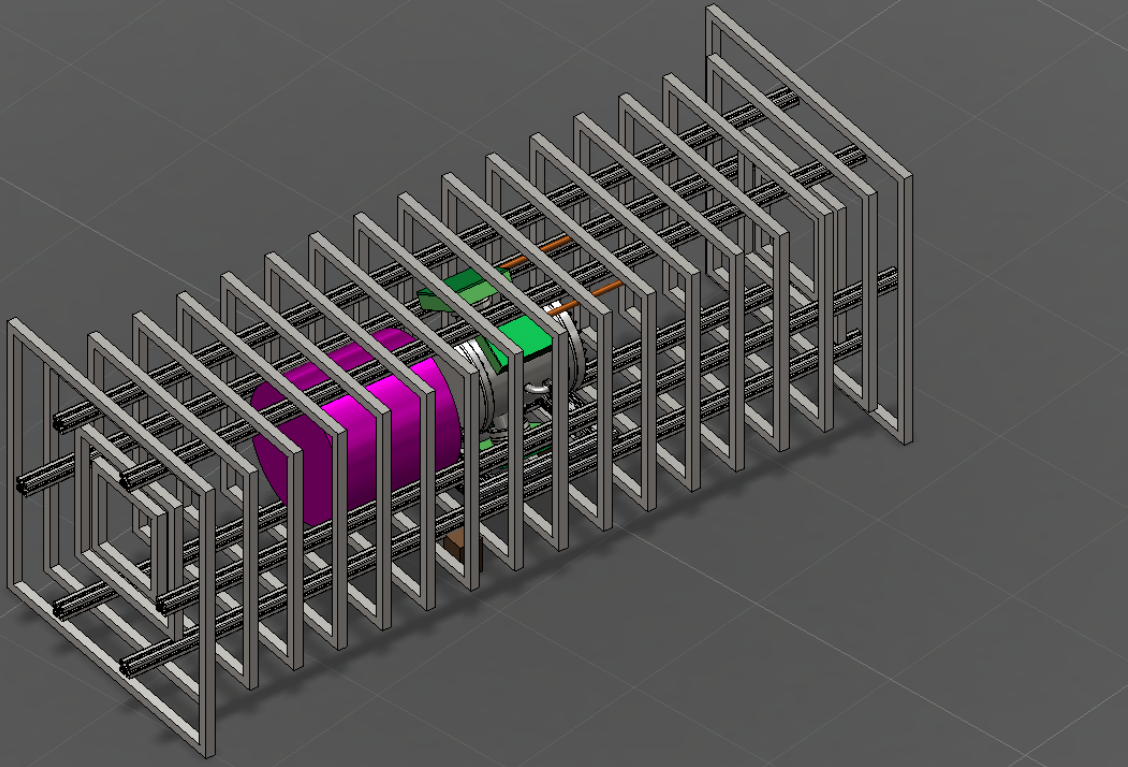
n3He Design and Integration

version 0

Josh Hamblen
Caleb Wickersham
UT-Chattanooga
10/30/13

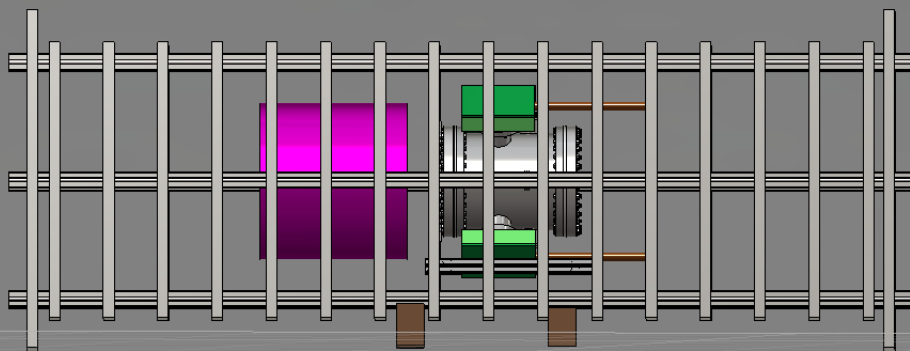
- Detector Design:
 - 22 square coils from Libertad
 - Mark's chamber design (8/28 version)
 - Spin Flipper is a cylinder for now
 - Official NPDG/Beamline 13 Model from Rick Allen
- Bulk of work done by Caleb Wickersham, UTC senior undergraduate

Coils, SF, and Chamber Only

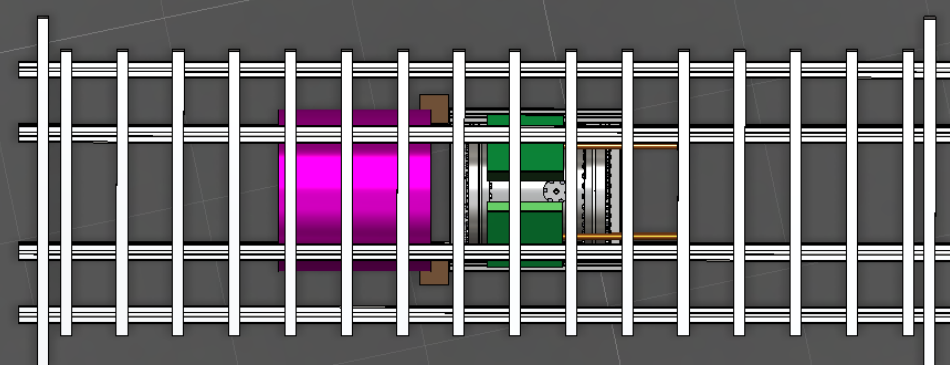


Front

Side

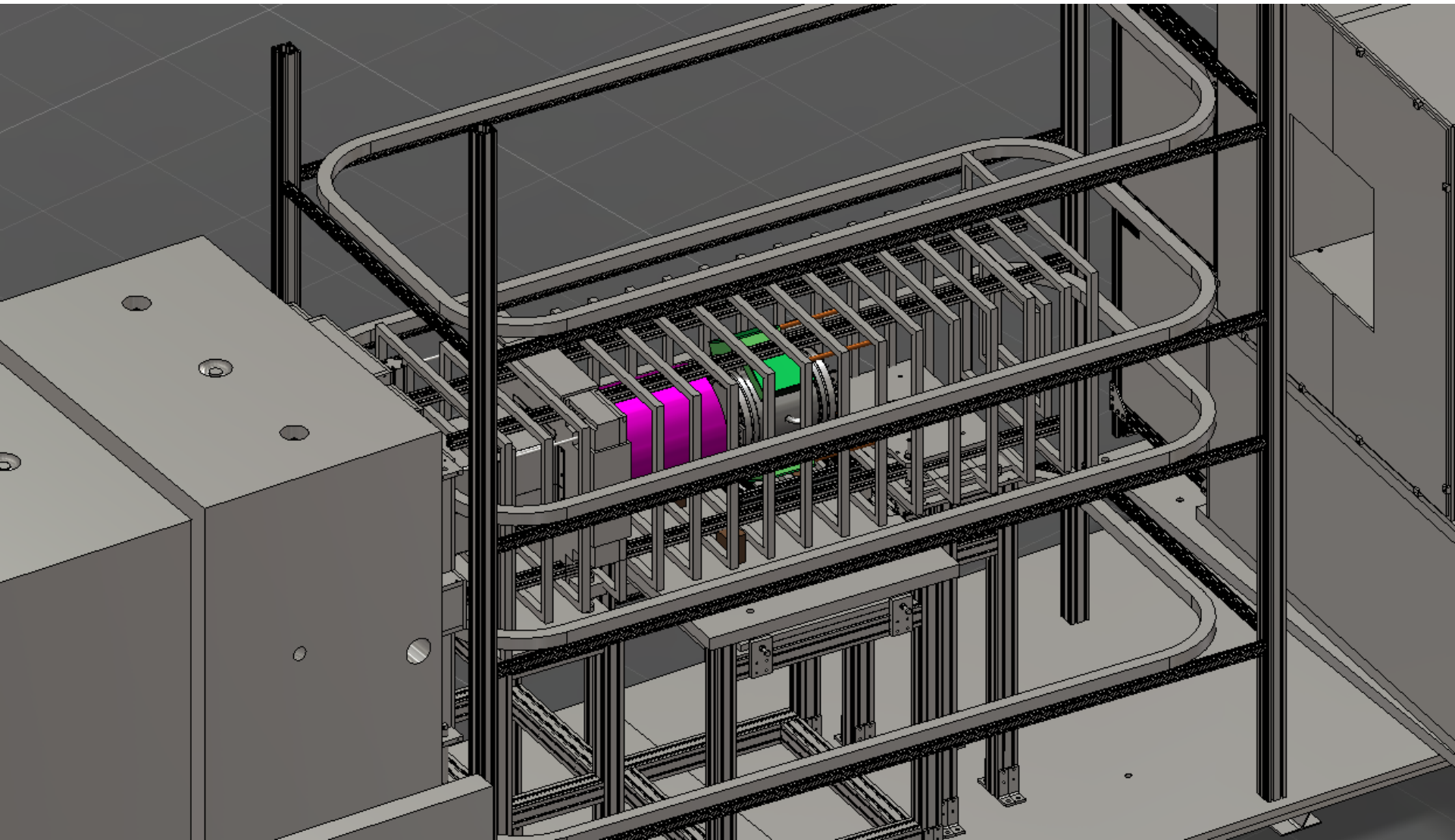


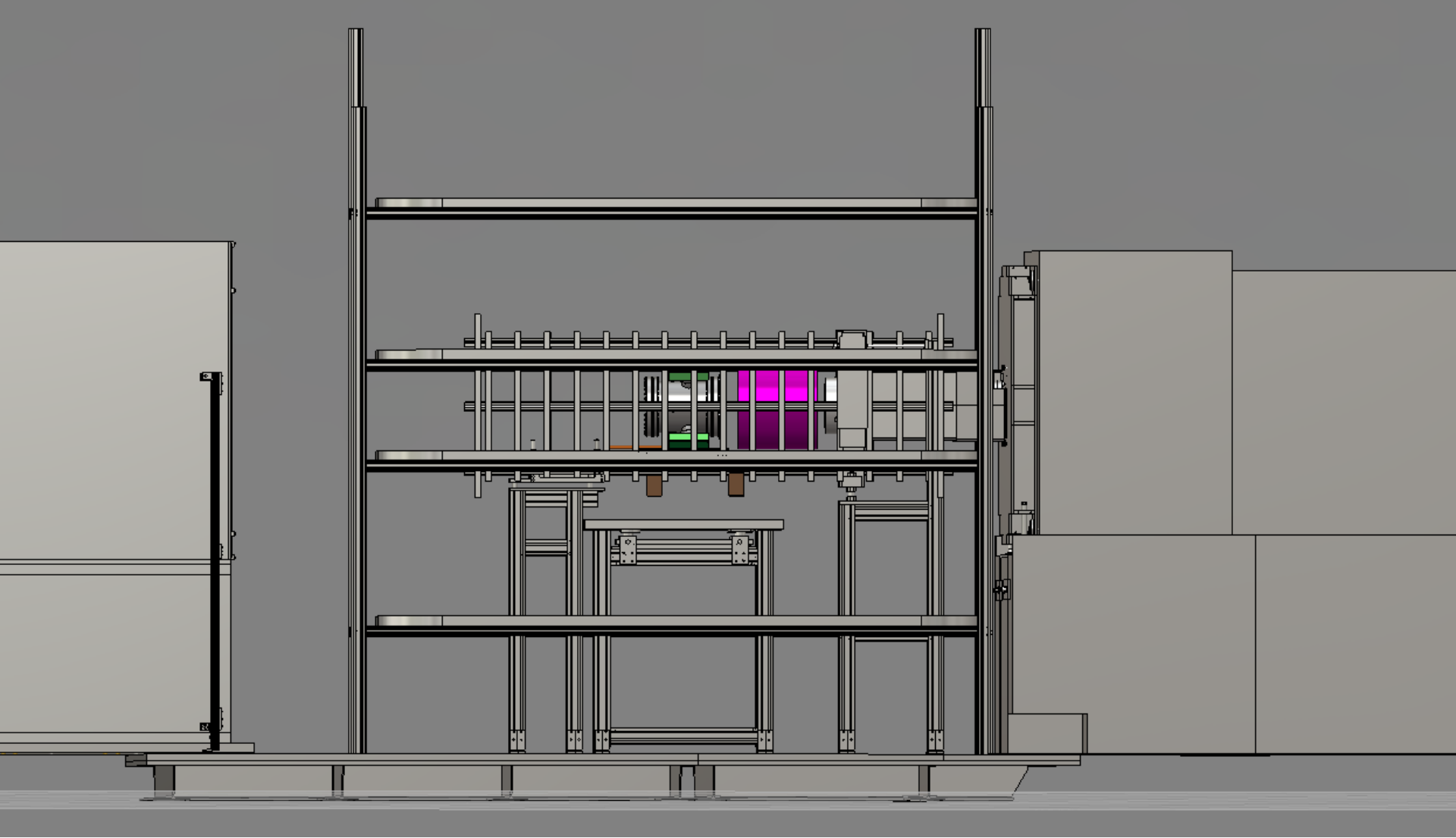
Top

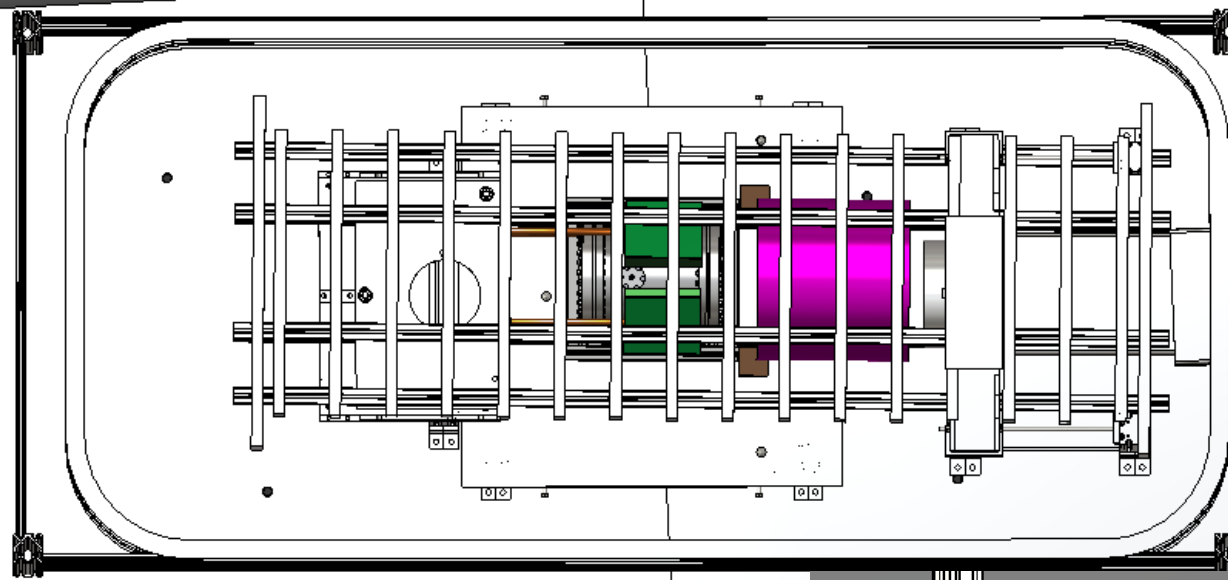


Entire Experiment in the Beamline

Cave walls, ceiling, etc. removed for illustration

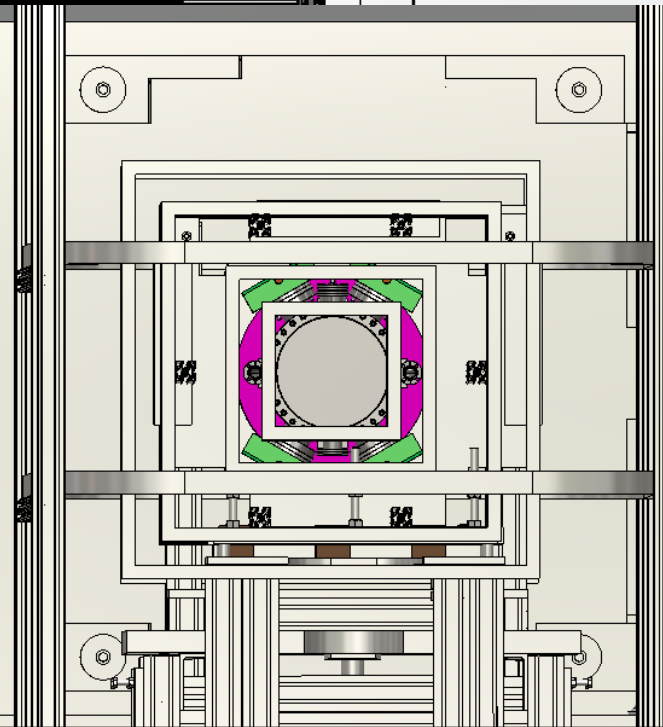




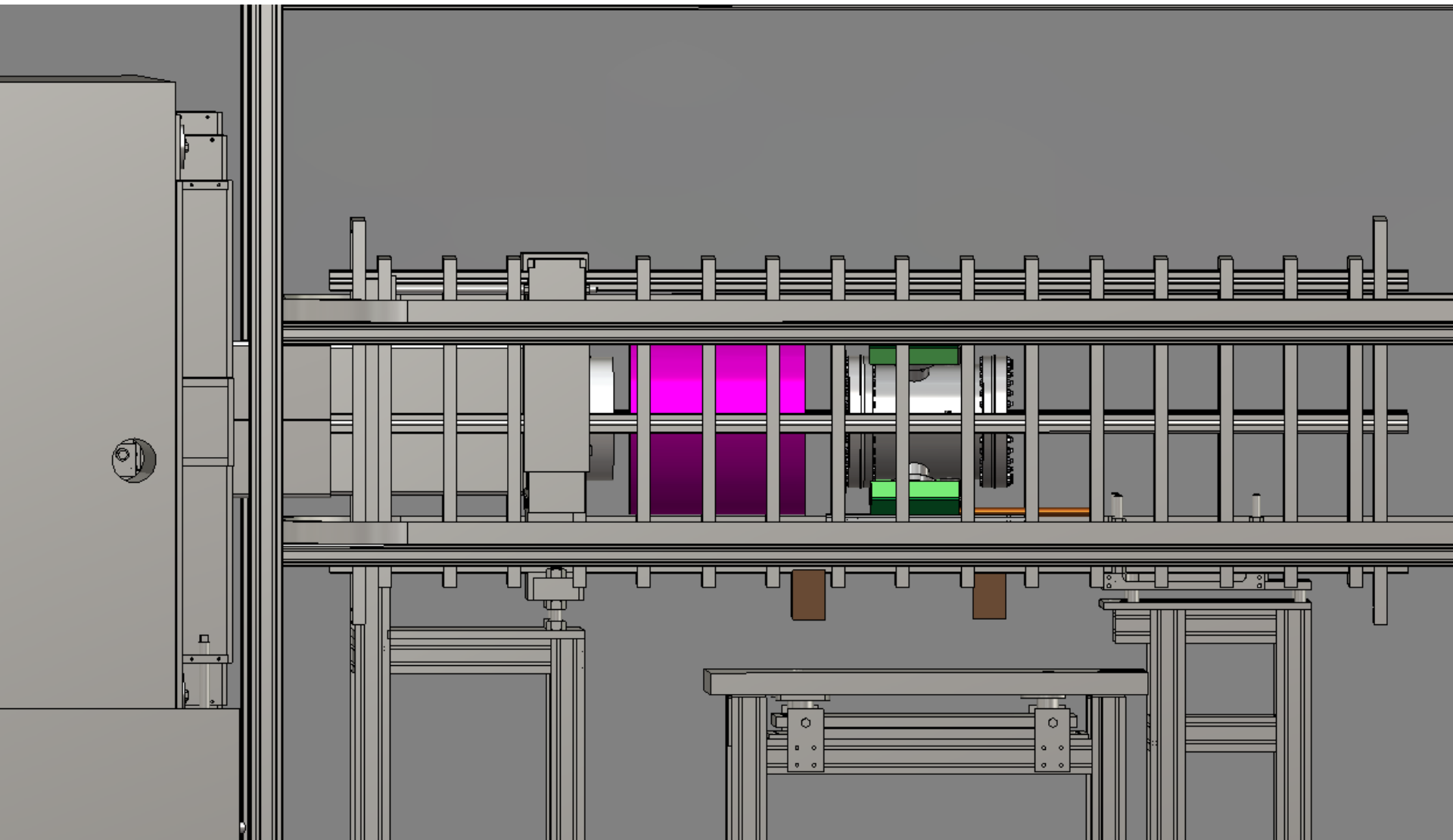


Top

Rear



Mounting to NPDG stand still needs to be done



Still to do...

- Frame mounting to NPDG stand
- Chamber mounting to frame
- Full mounting of 22 coils to frame
- Spin flipper design
- Vibration isolation mount
- What else?

