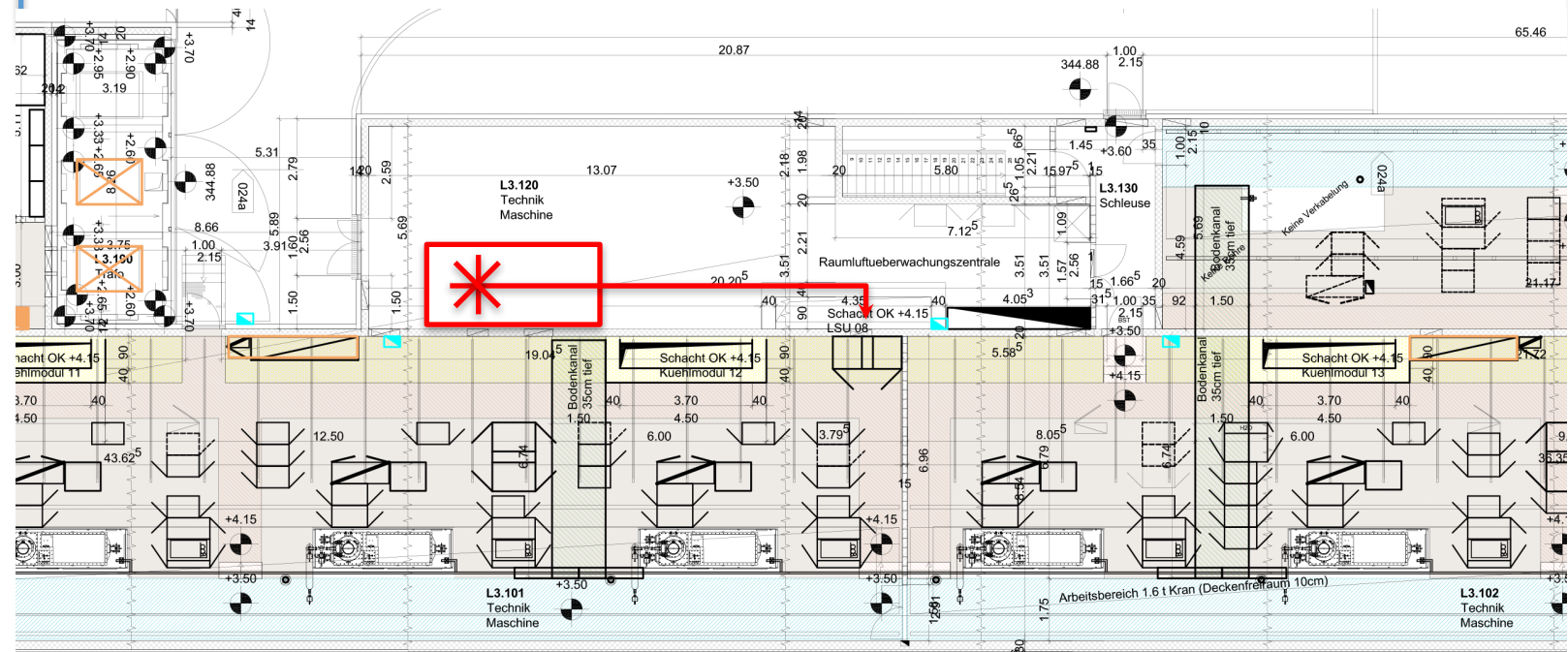
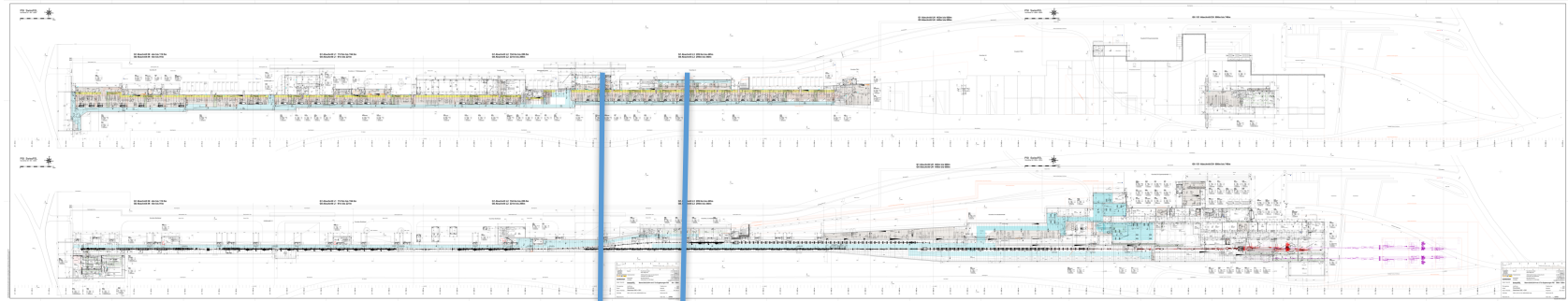


Conceptual design for the switchyard ACHIP chamber

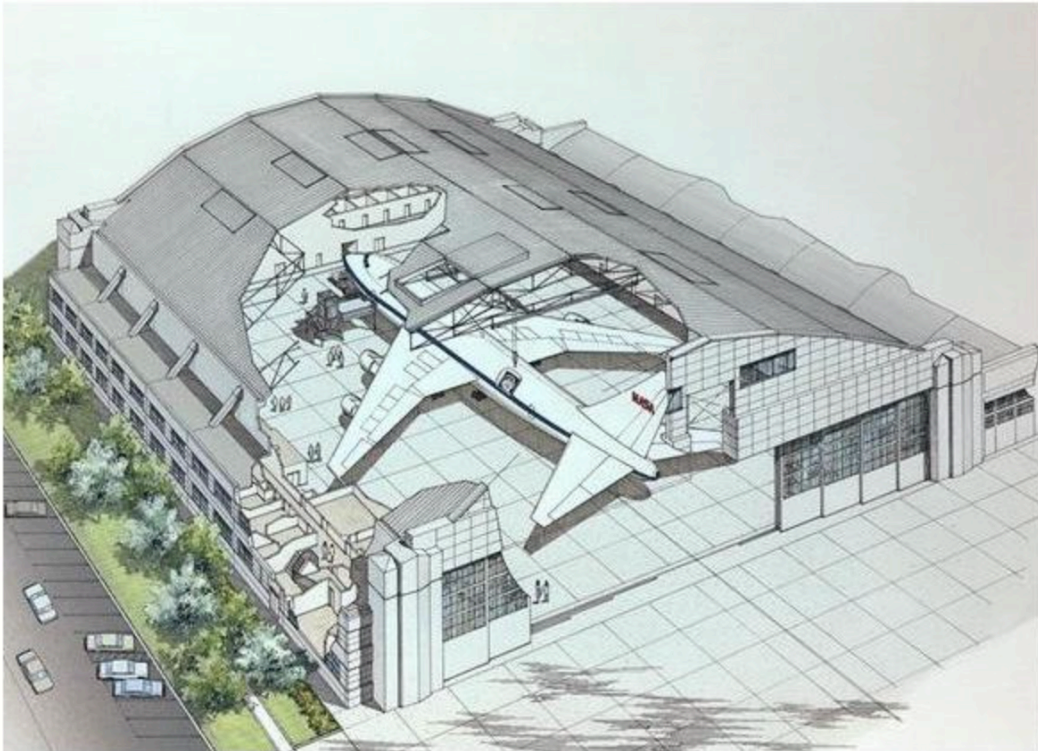
ACHIP Meeting 3.10.2016

Where?



Names names names

The Hangar?



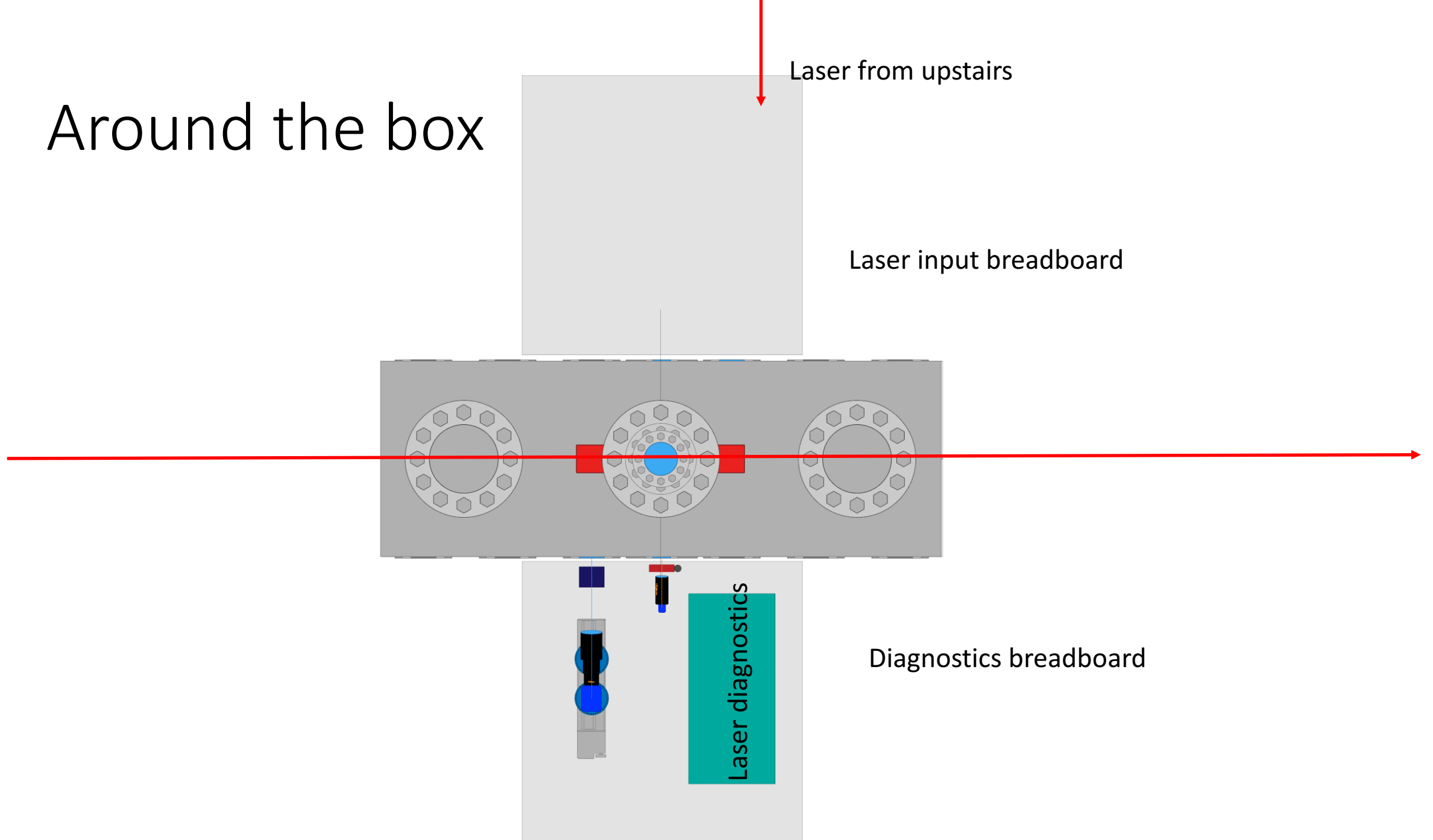
The Coffin?



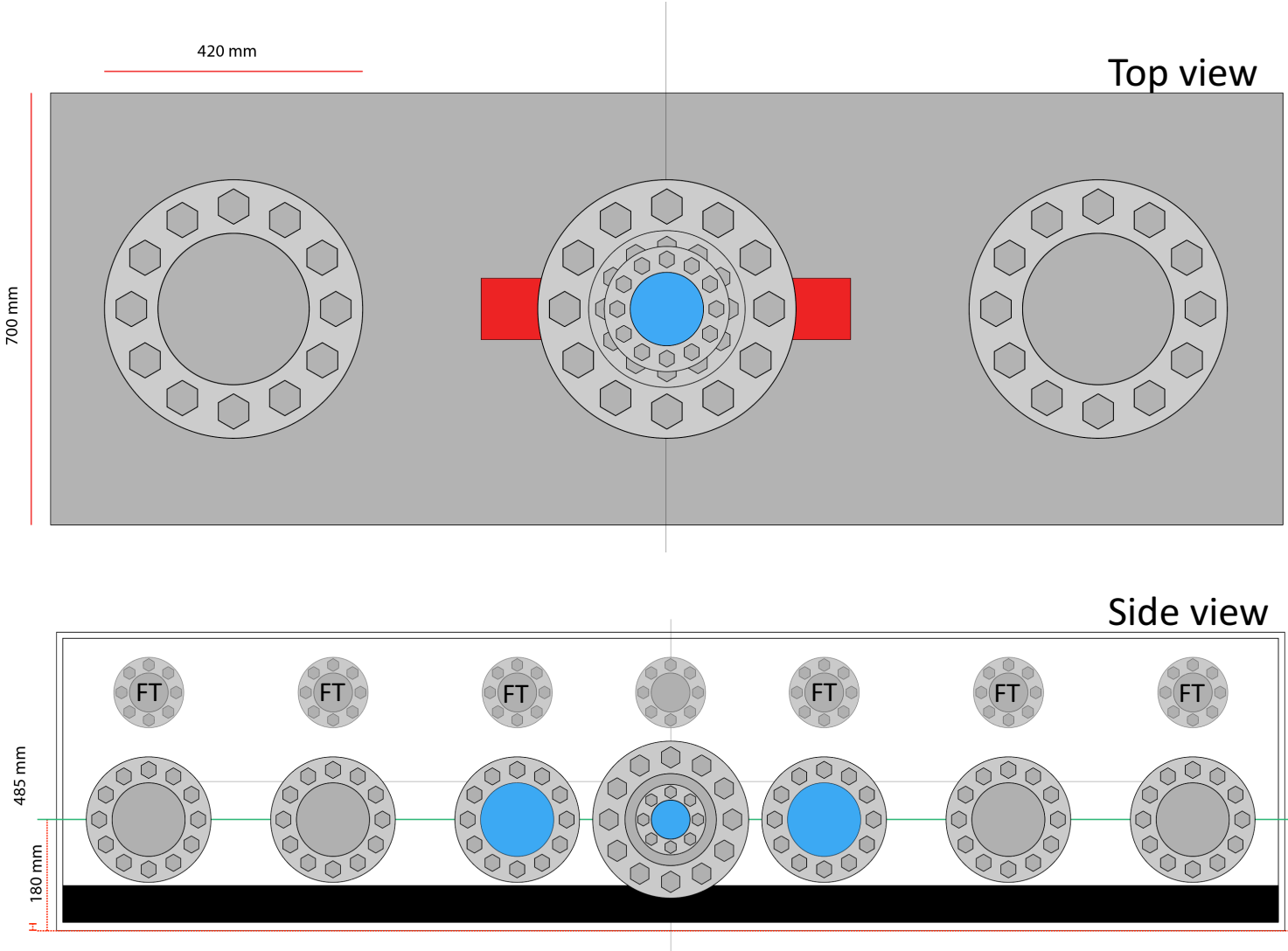
The Cadillac?



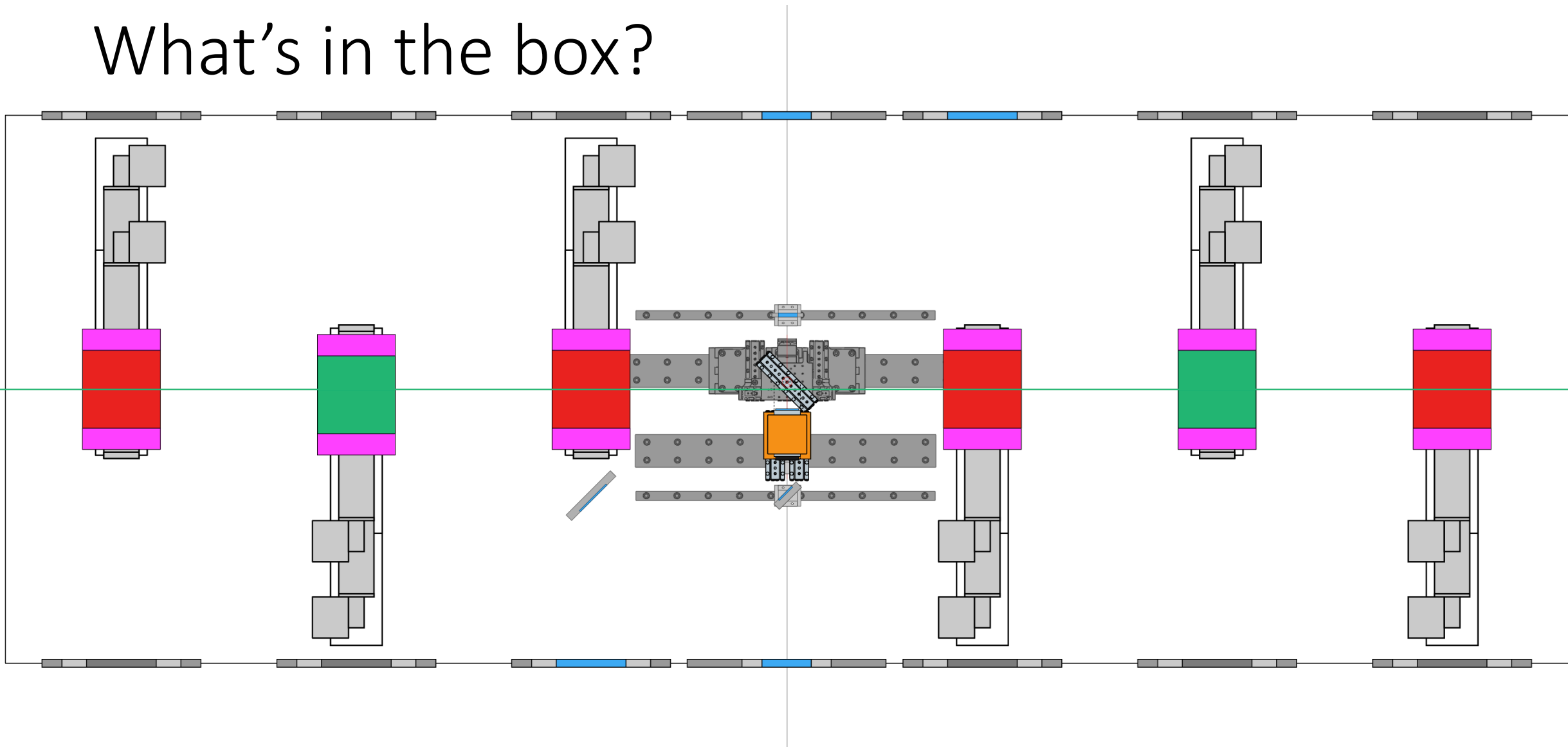
Around the box



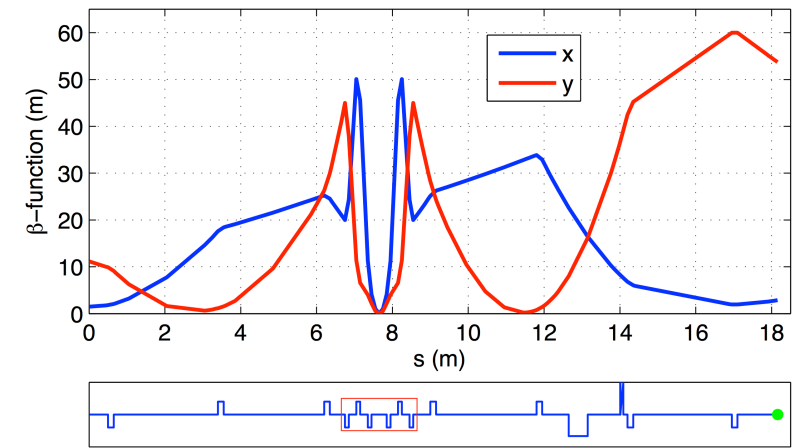
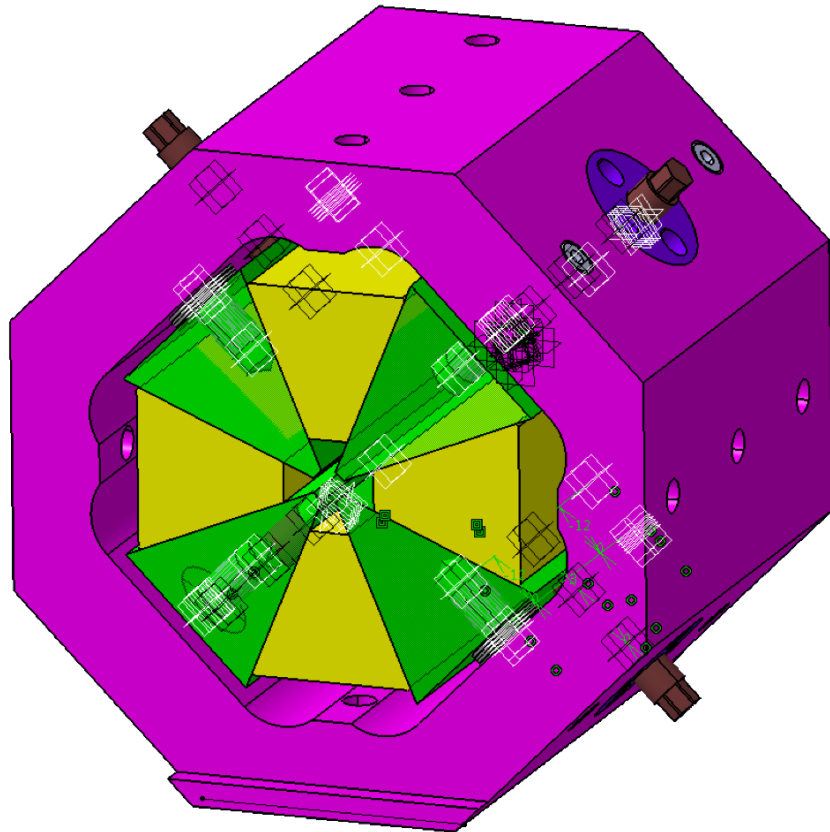
The box



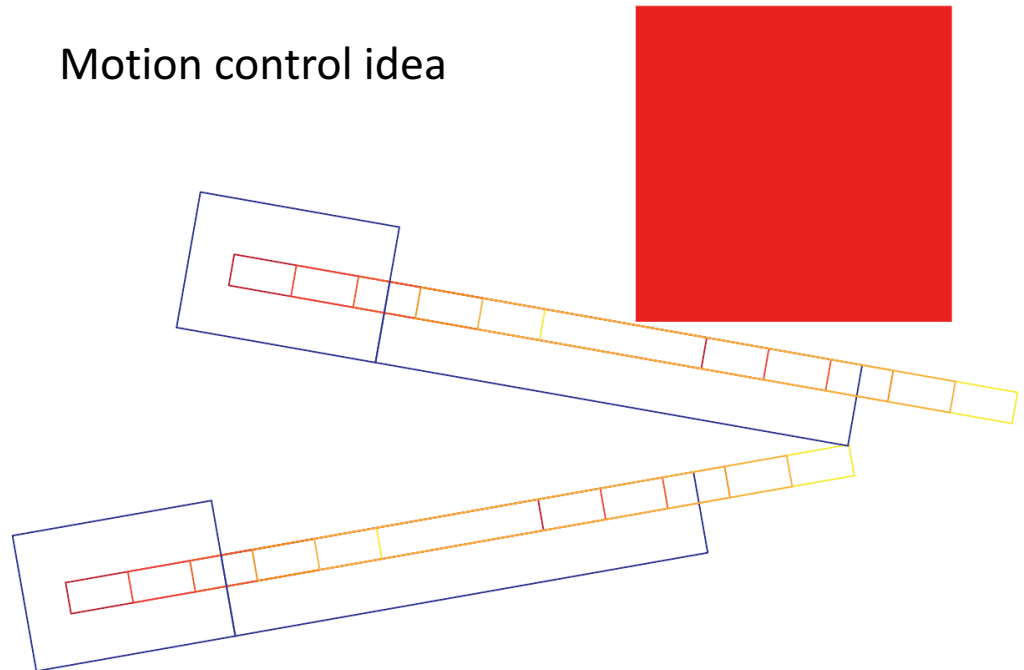
What's in the box?



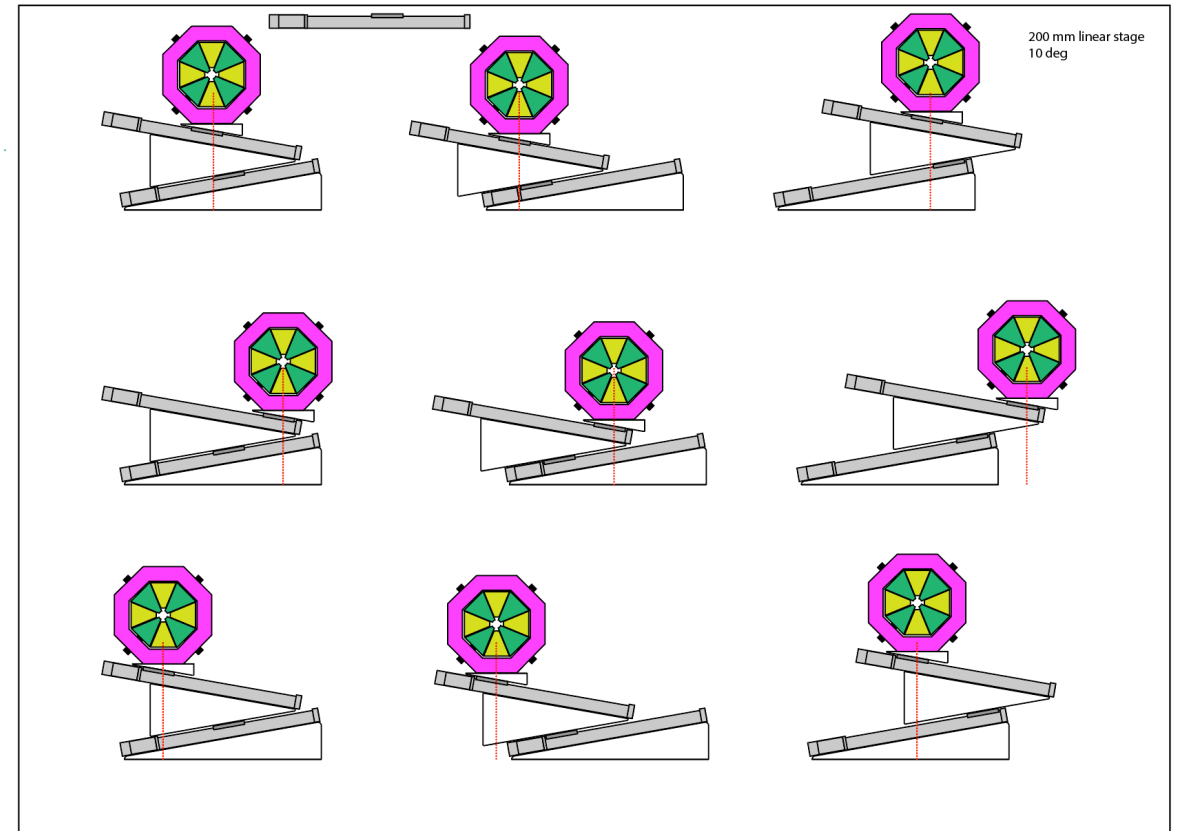
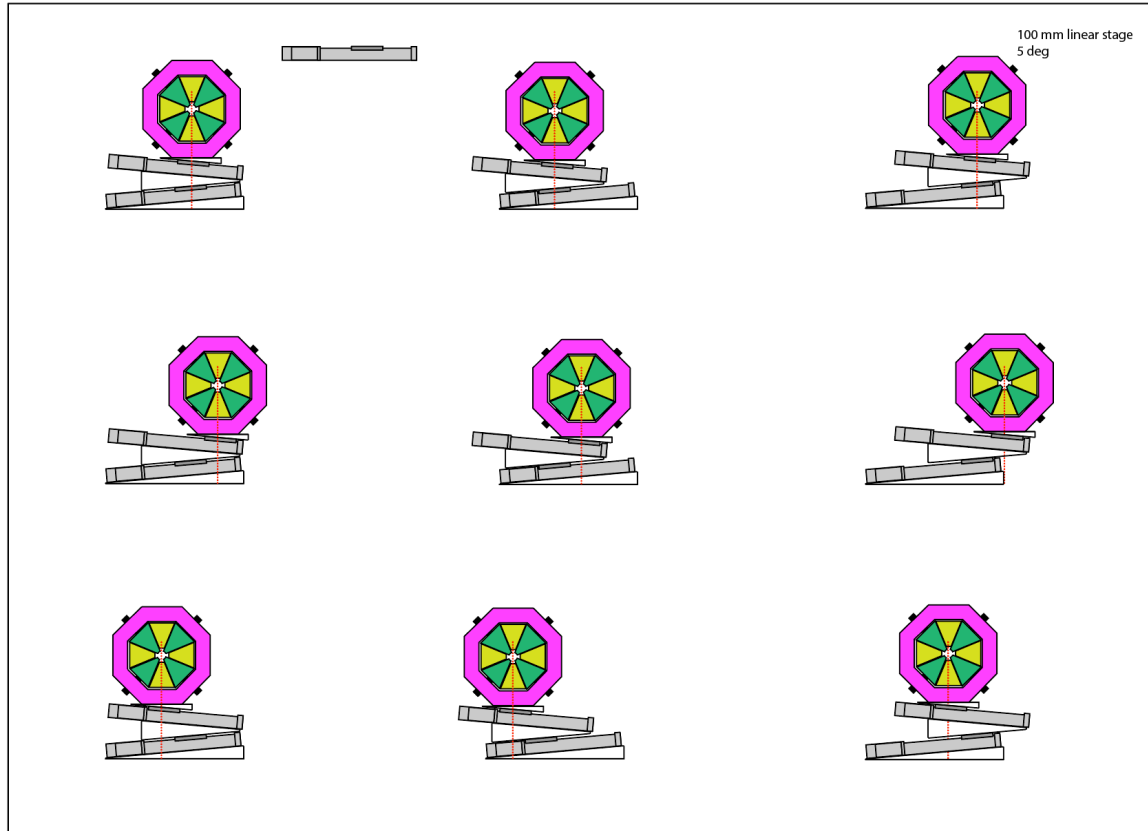
Quadrupoles



Motion control idea

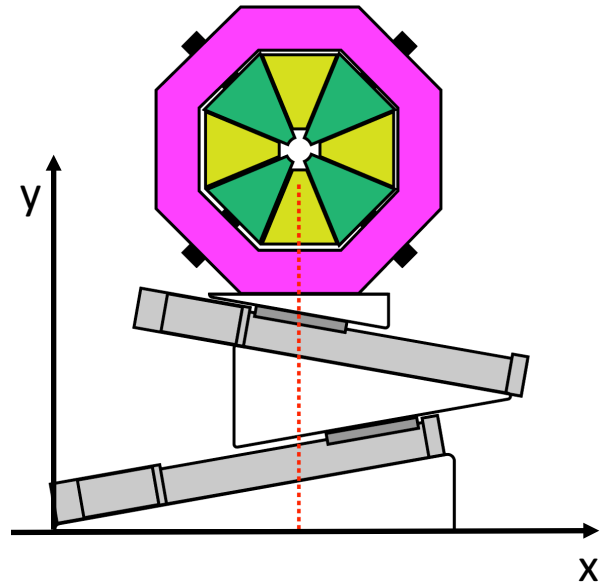


Quadrupoles

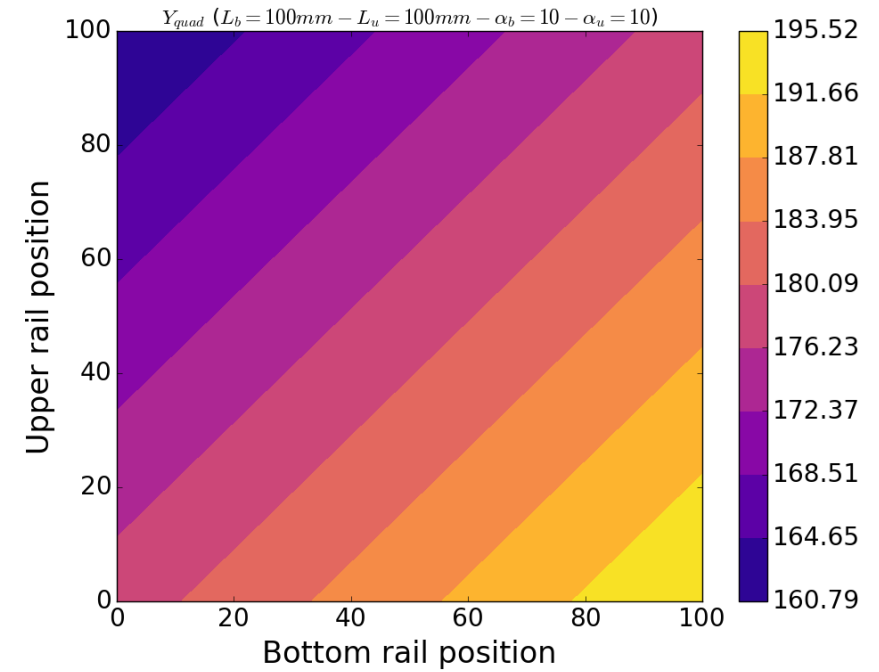
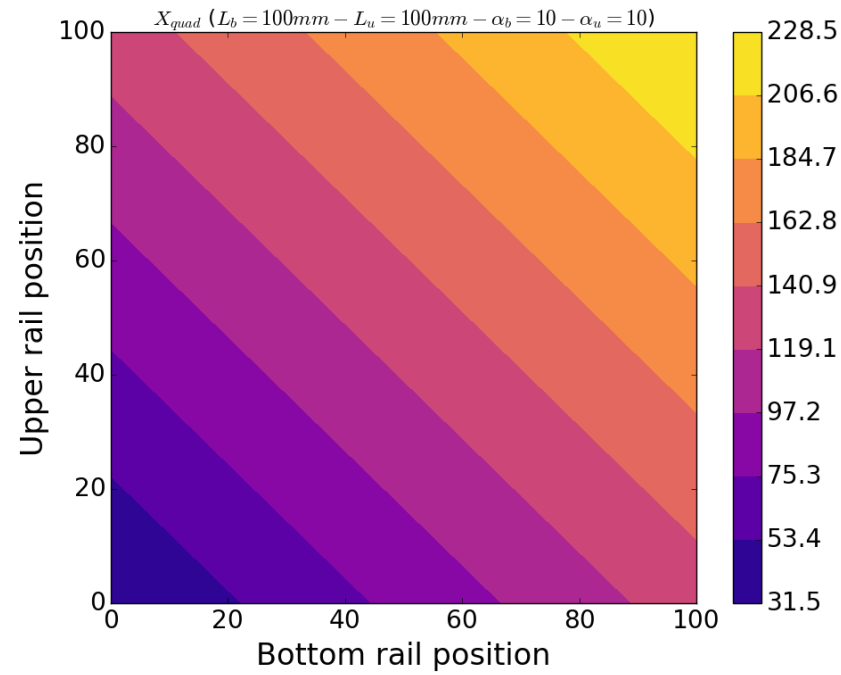


A number of parameters to optimize

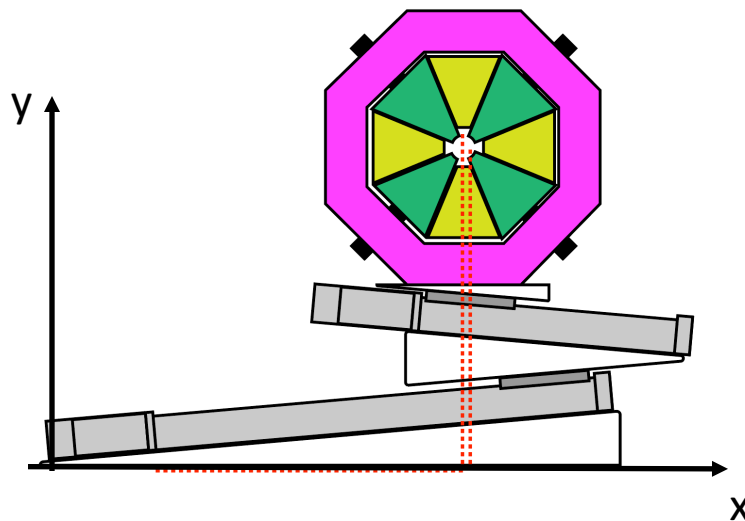
Quadrupoles



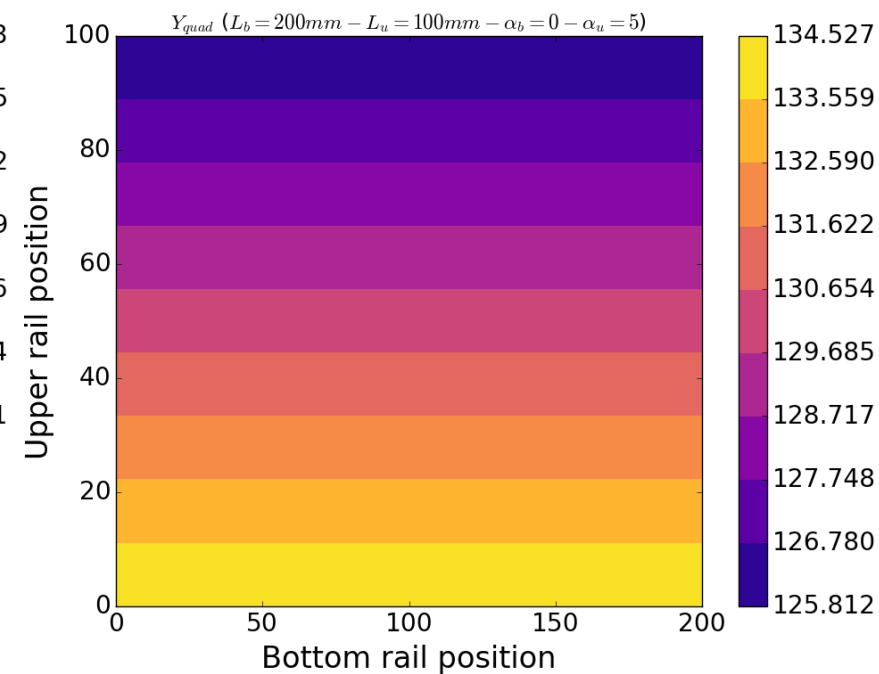
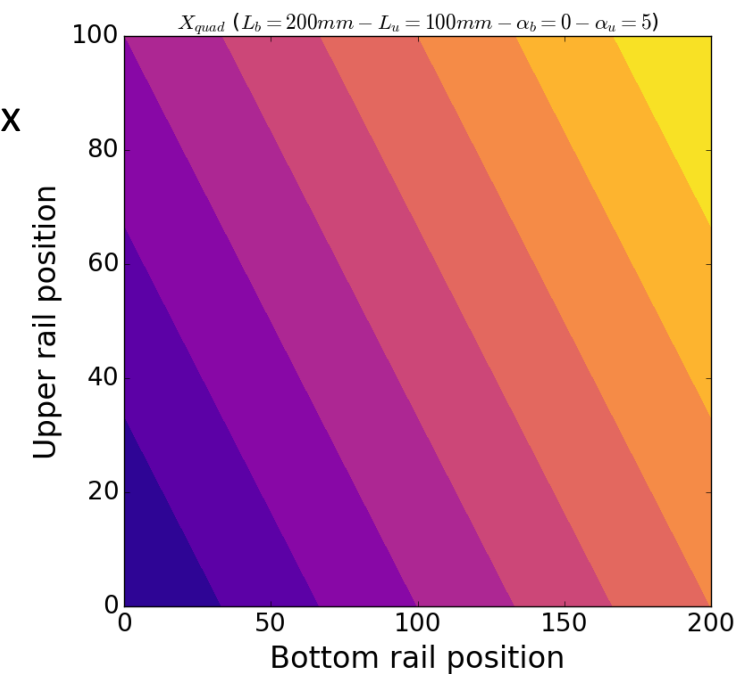
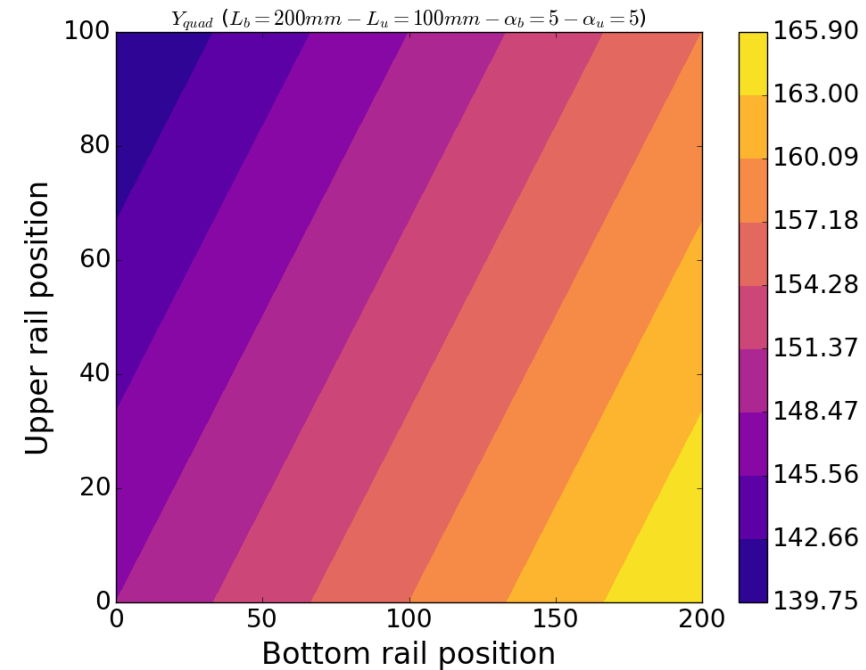
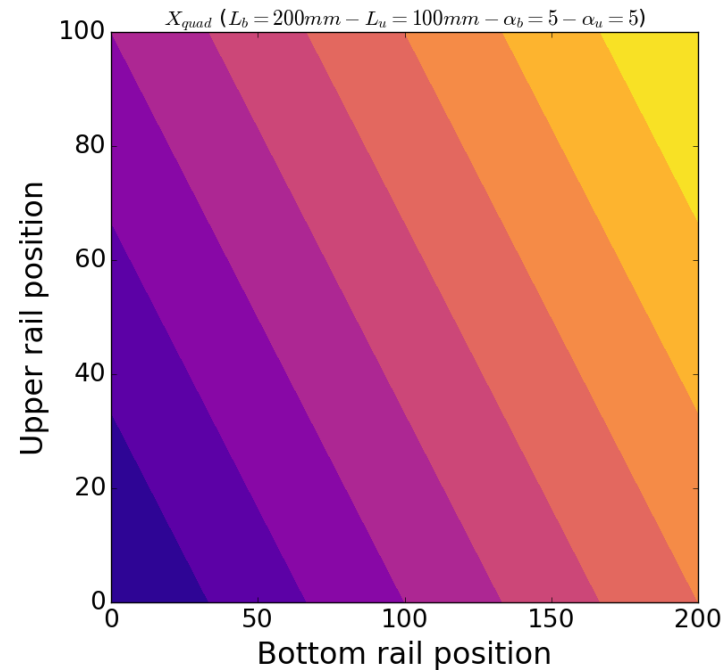
100 mm rails, 10 deg



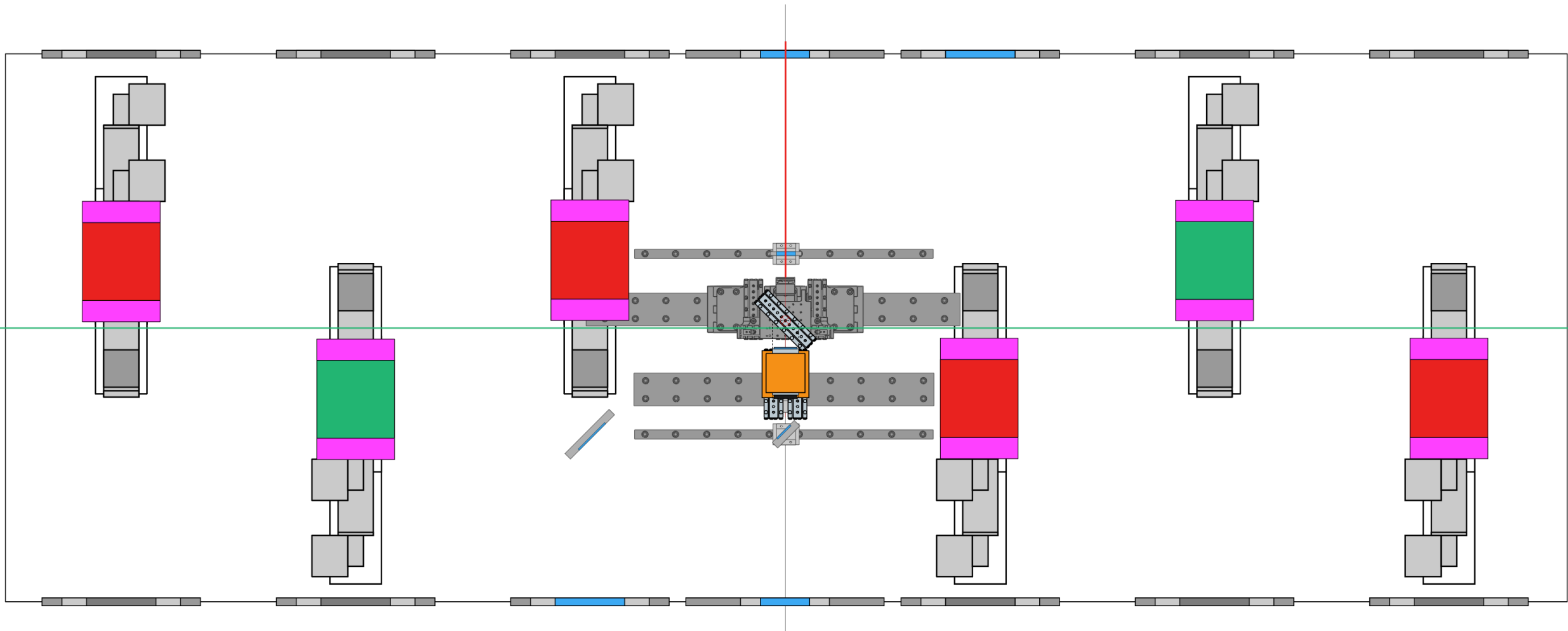
Quadrupoles



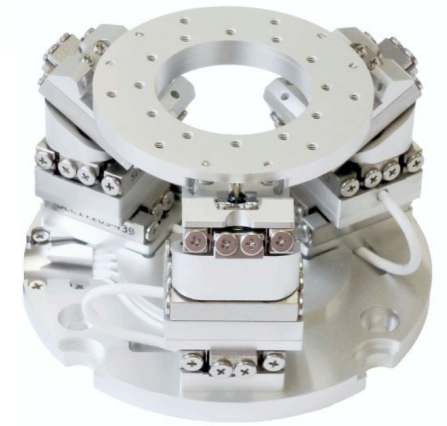
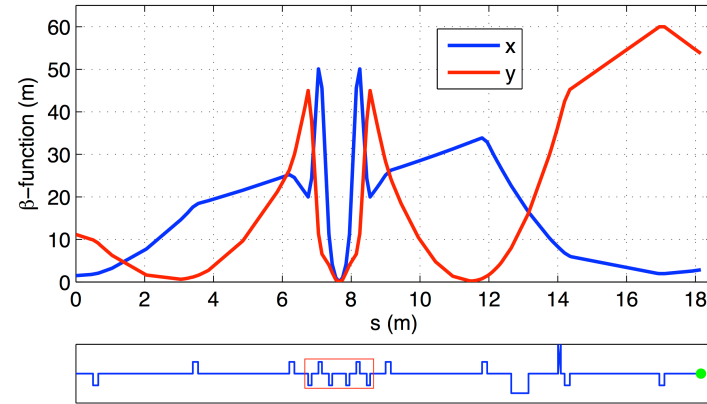
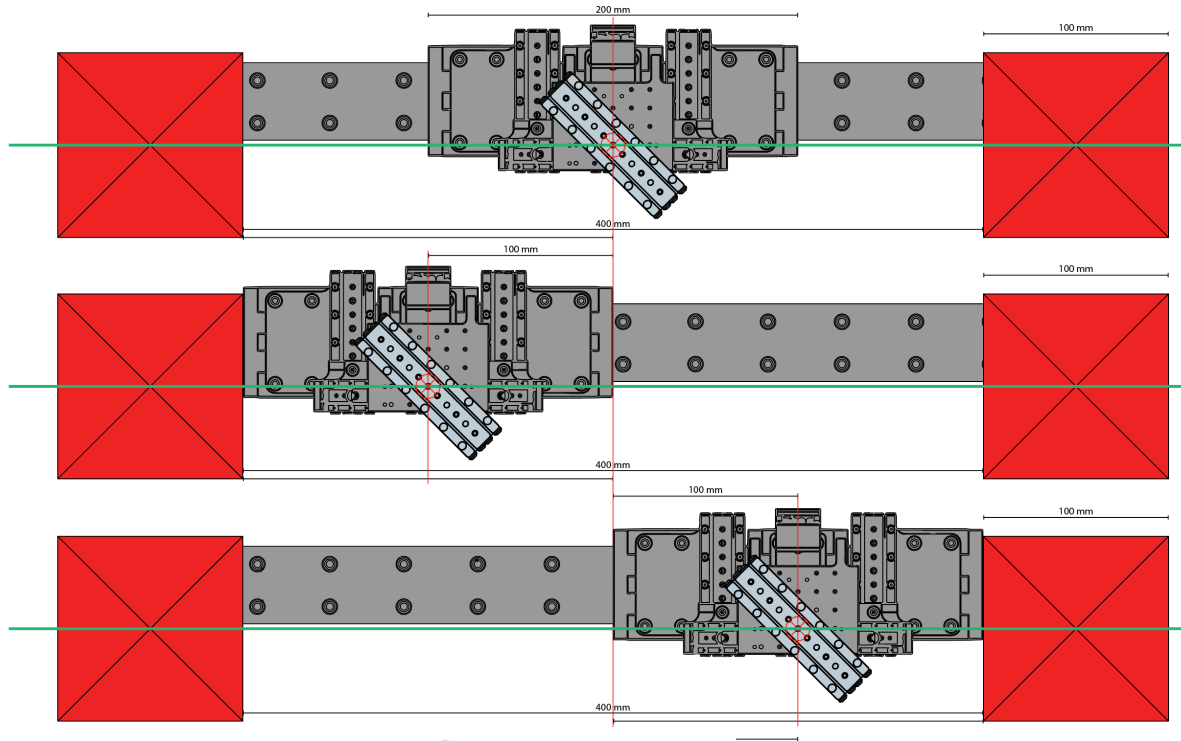
200 mm – 100 mm rails



(Hopefully) Compensated kicks

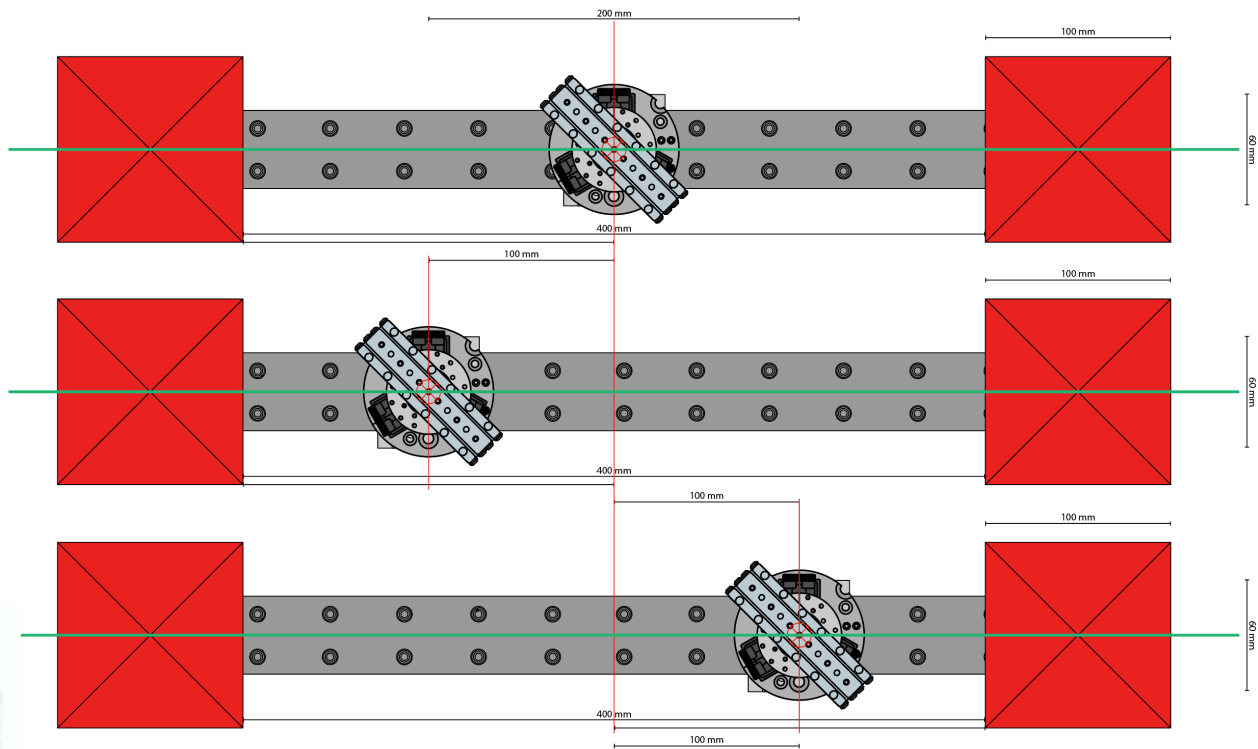


Main manipulator

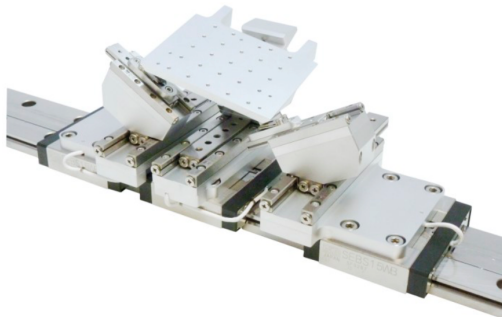


SmarPod 70.42.1

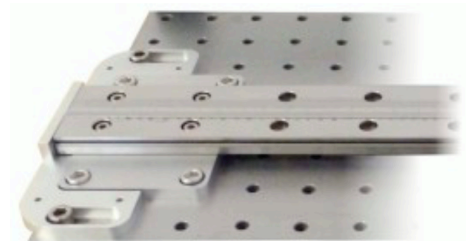
70.42



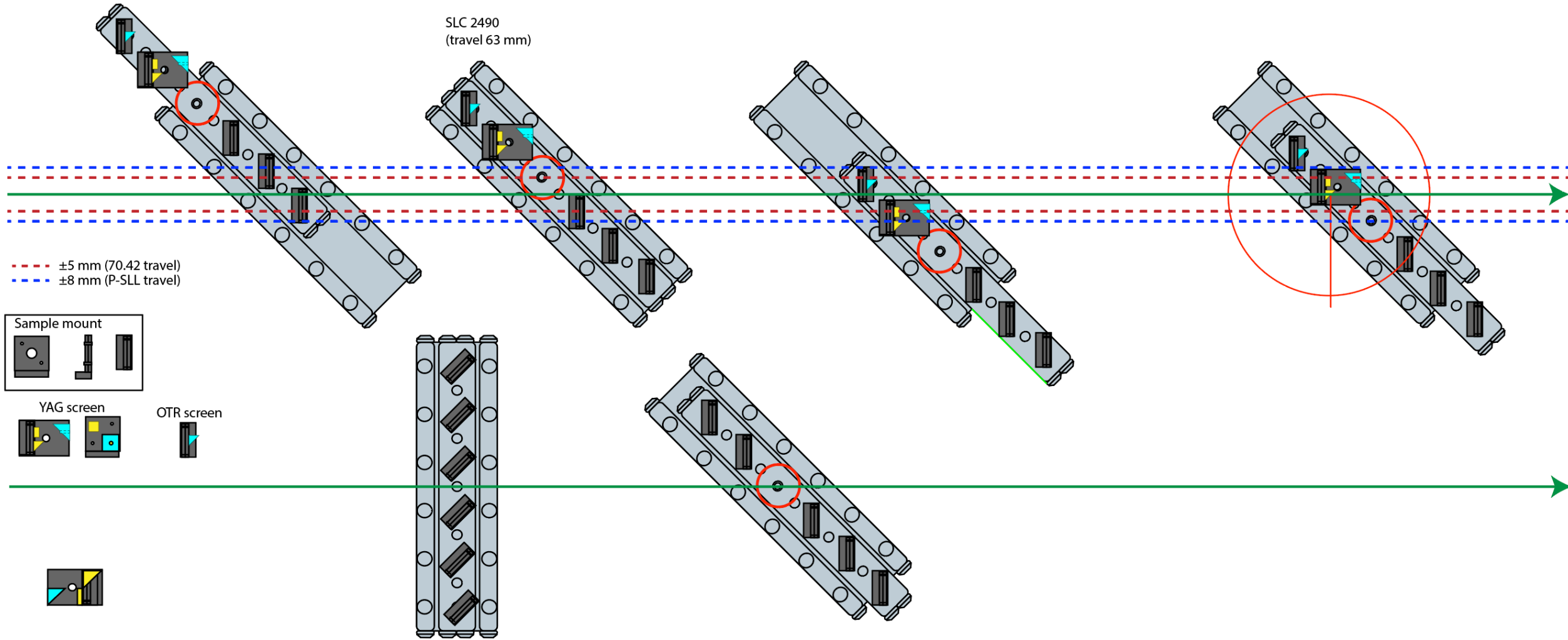
P-SLL



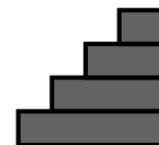
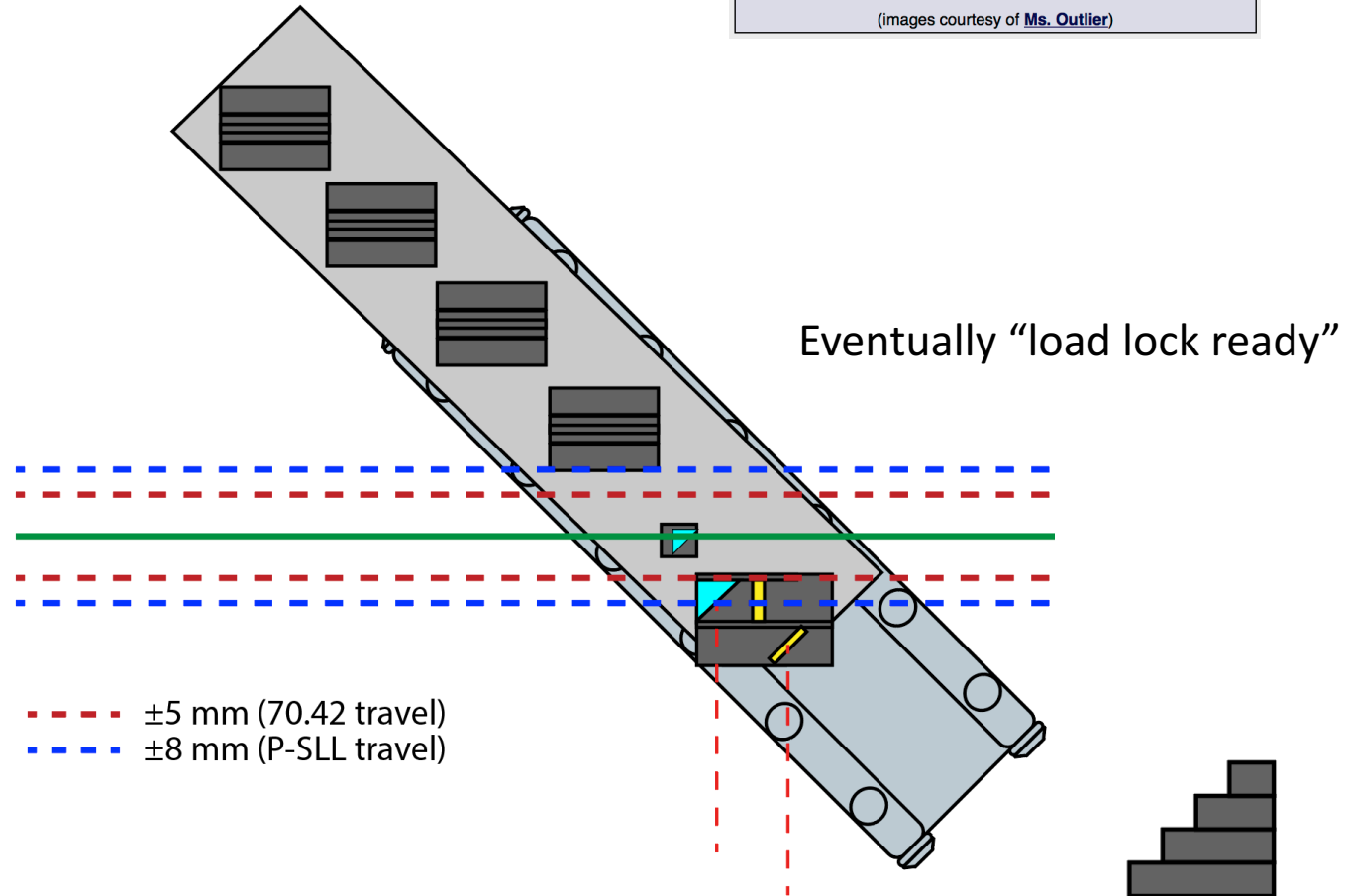
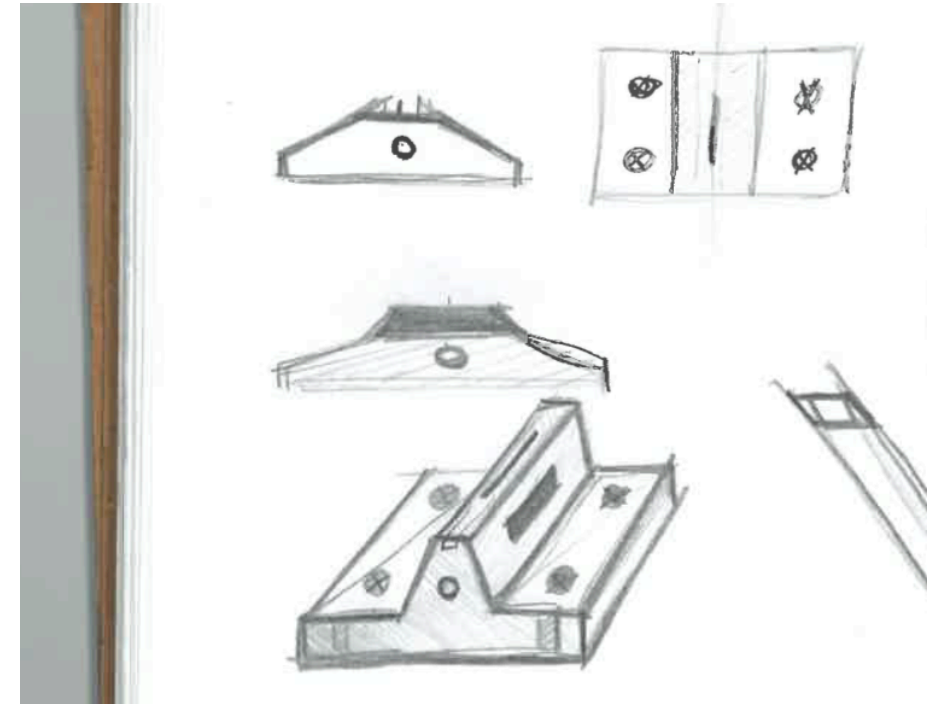
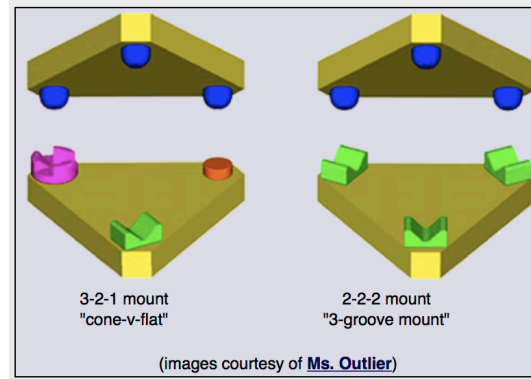
SmarPod P-SLL 500.75.1



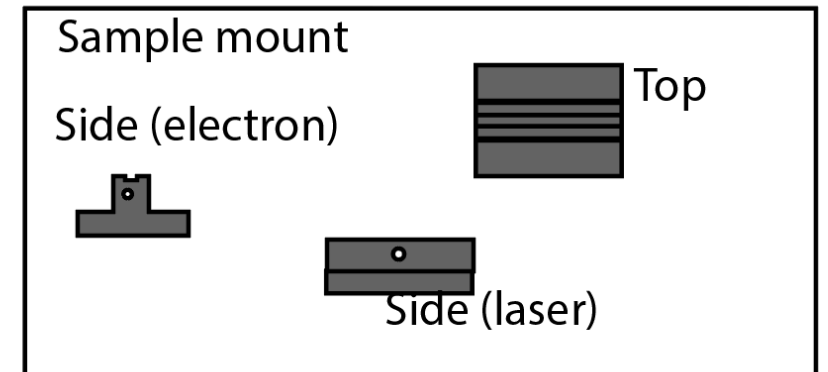
Sample rail



Sample rail

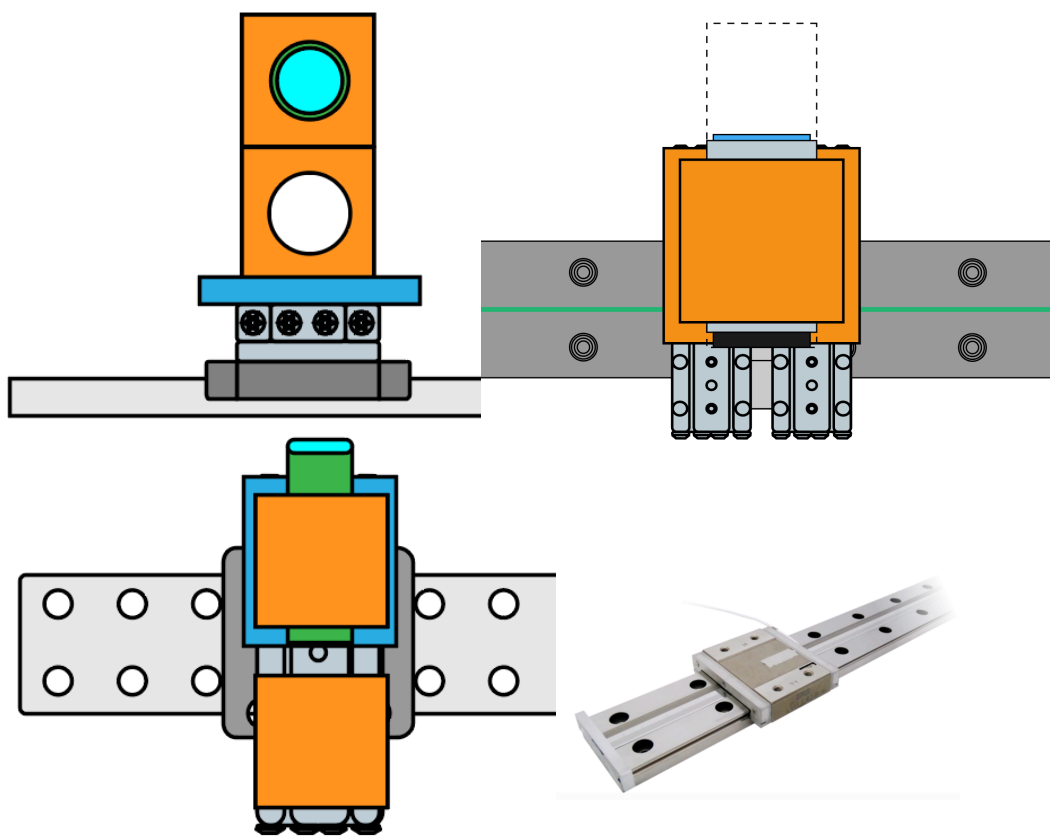


More "exotic" mounts

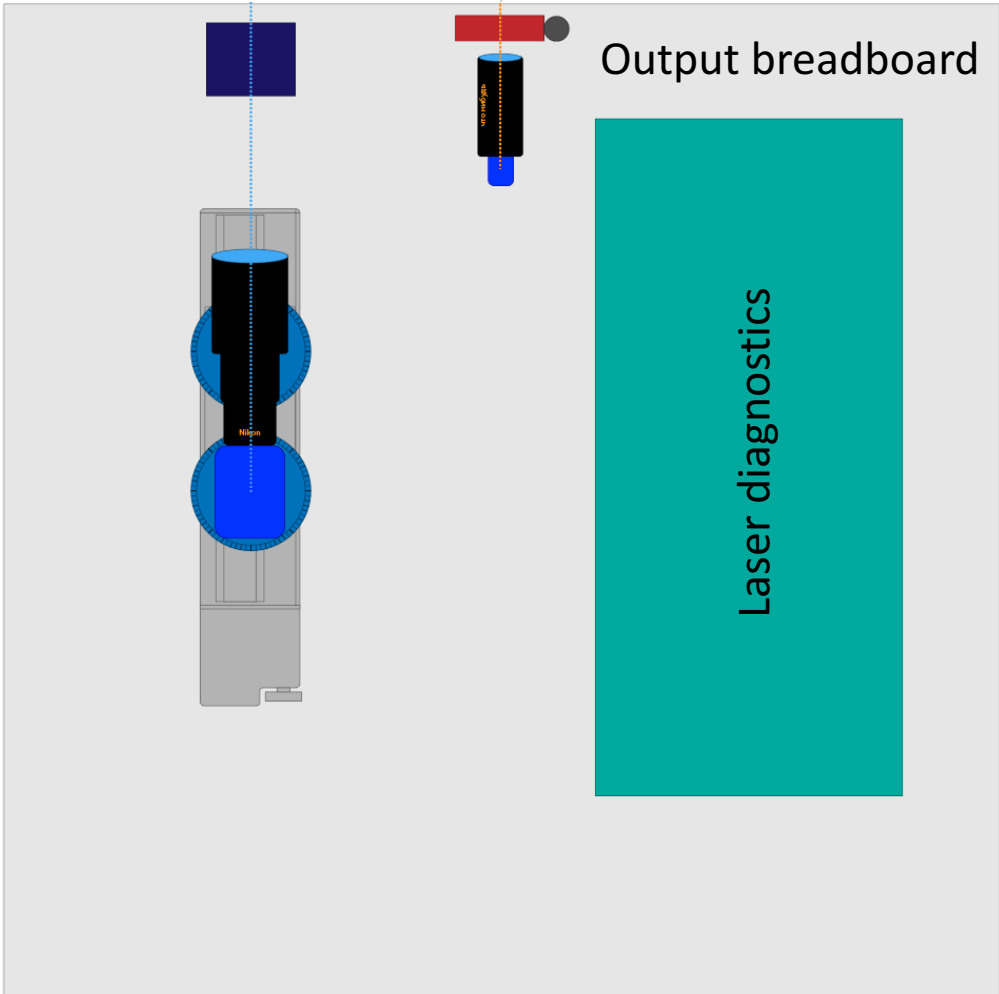
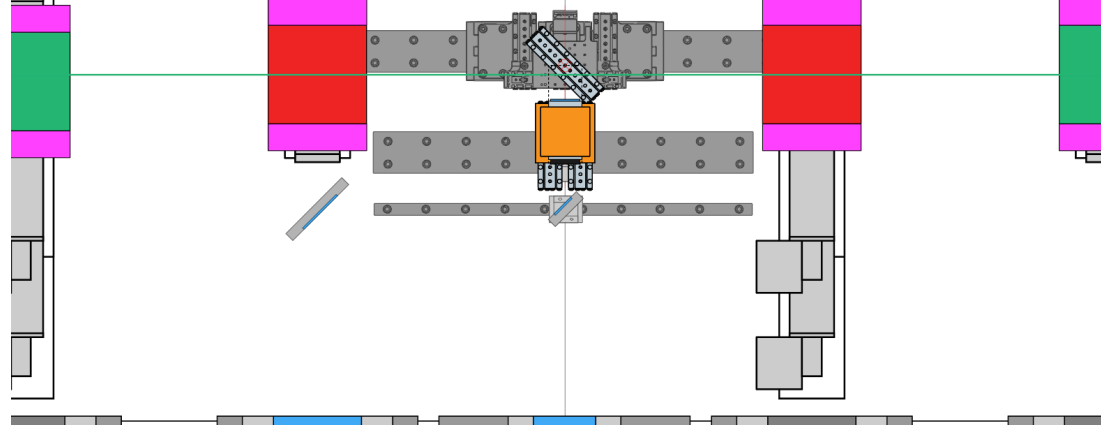
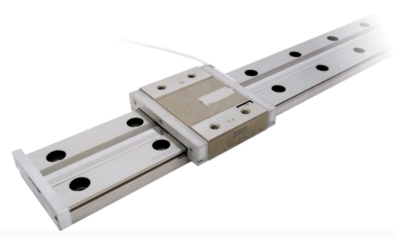


Diagnostics

Dedicated beam loss monitor at output



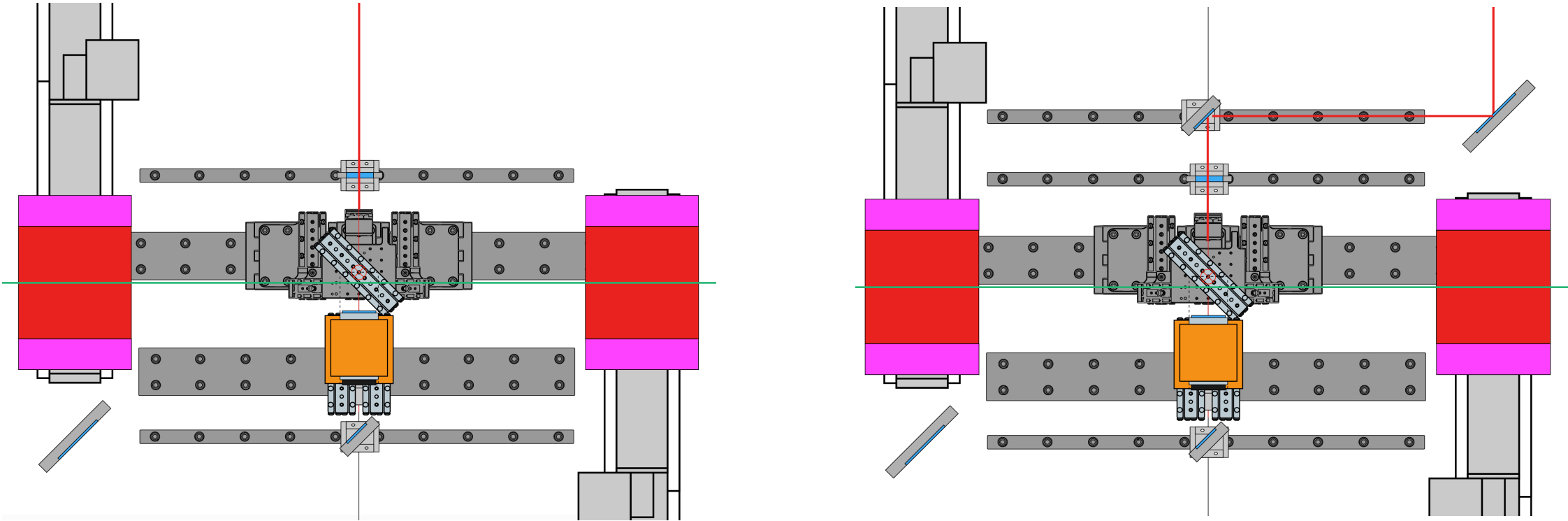
Microscope objective mover



or



Two (or more) options for the laser input



What are we missing?

- Pumping and vacuum requirements
- Alignment strategy and checks before experiment
- Specification for the laser transport
- Laser diagnostics
- Formalize laser safety