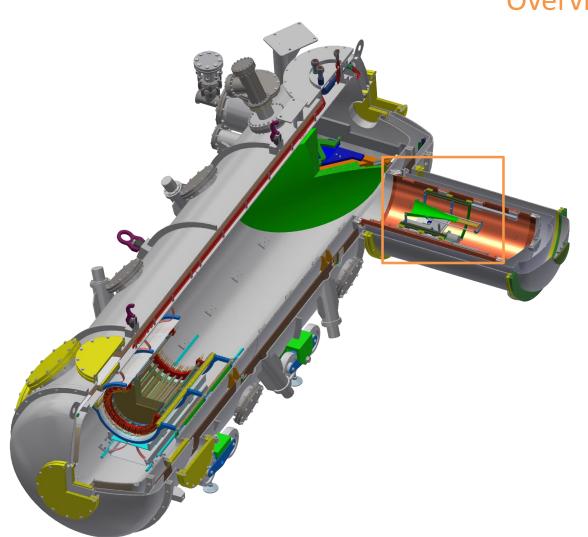
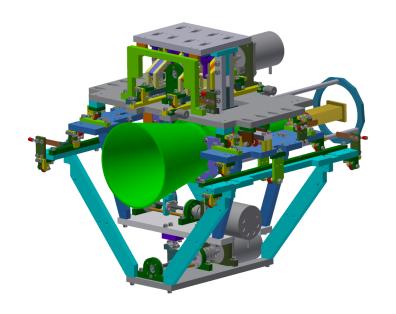




Overview





MADMAX Collaboration Meeting Georg Obermüller July 3<sup>rd</sup> 2025

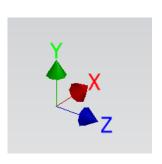


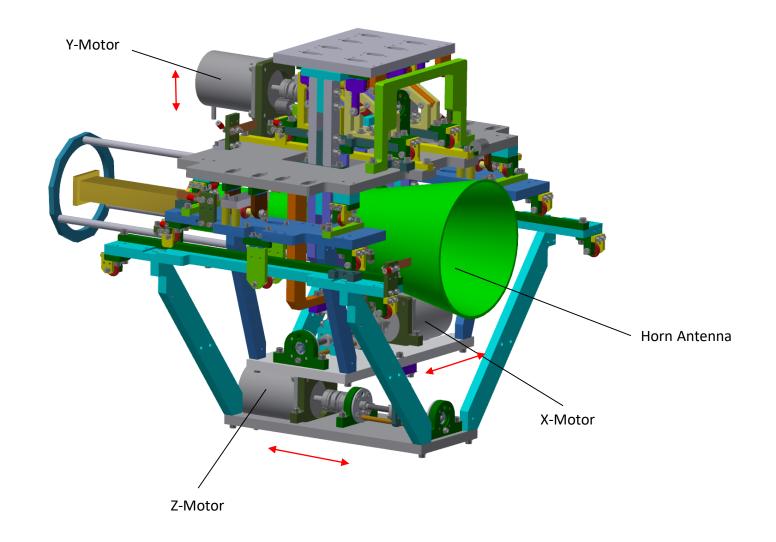


### Structure

#### **Step 3:**

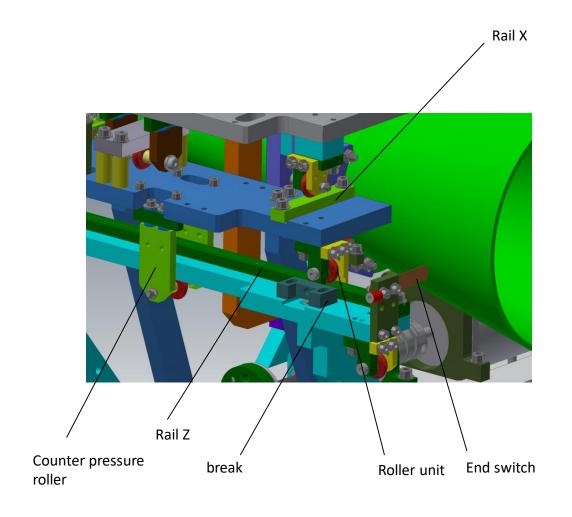
align antenna to focussing mirror center by motors (X/Y/Z) and by hand (tilt)

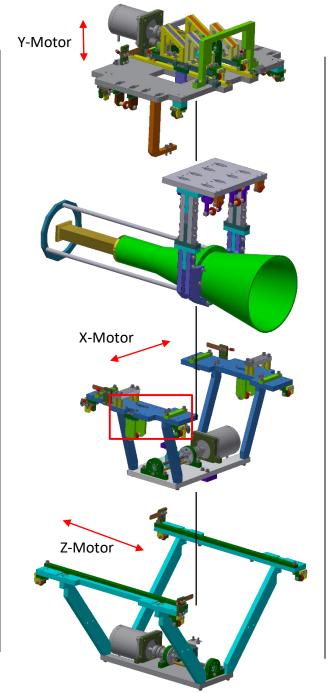




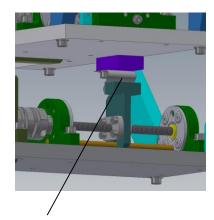


Structure

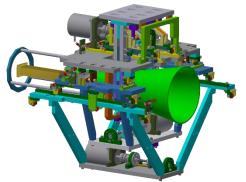








Levels connected by metal strips

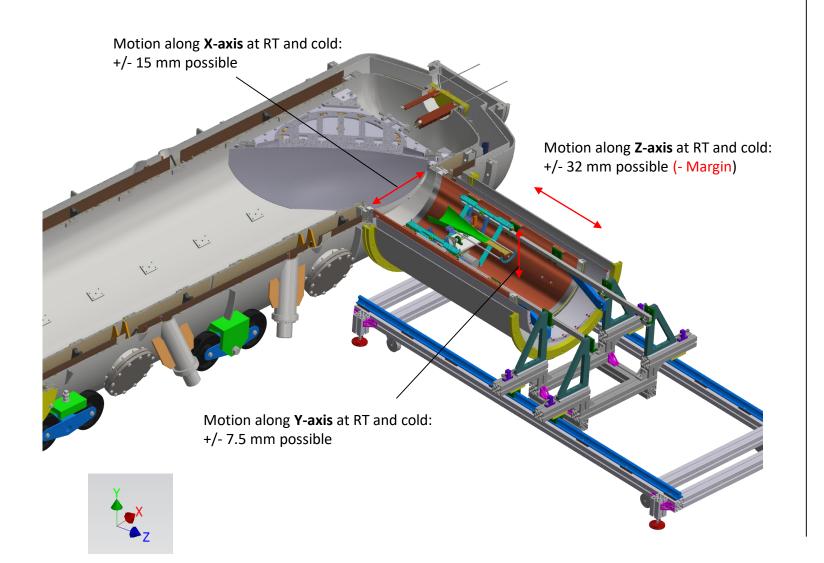


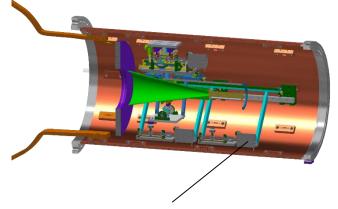




### Travel Ranges







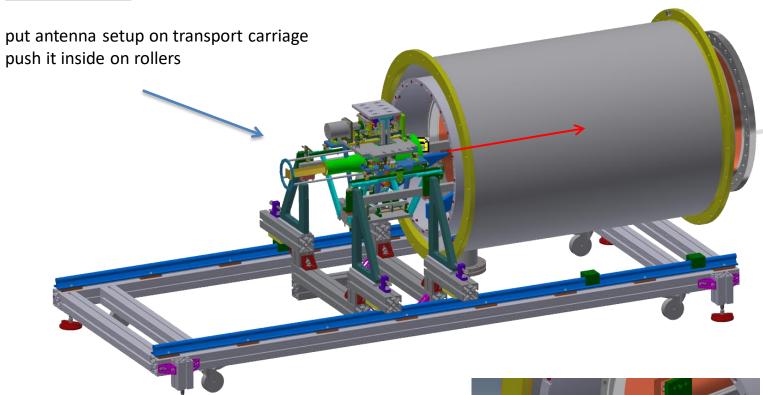
<u>Future plans:</u> expand Z-axis by another motor in front of the existing one



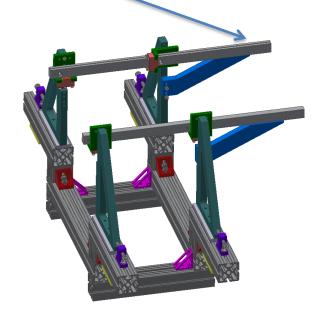


alignment

#### **Step 1: Insertion**



Adjustable Rail extensions to inner vessel



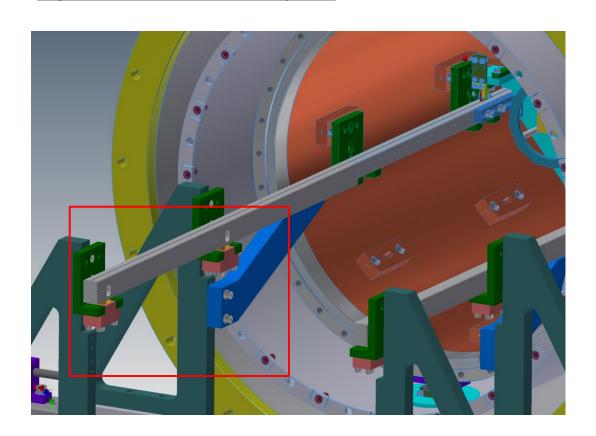
Docking the rails

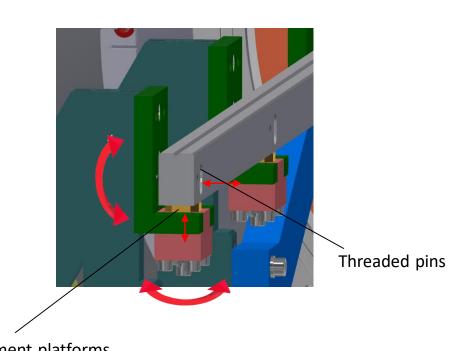


### MAX-PLANCK-INSTITUT FÜR PHYSIK

### alignment

#### Align tilt of extension rail at RT by hand



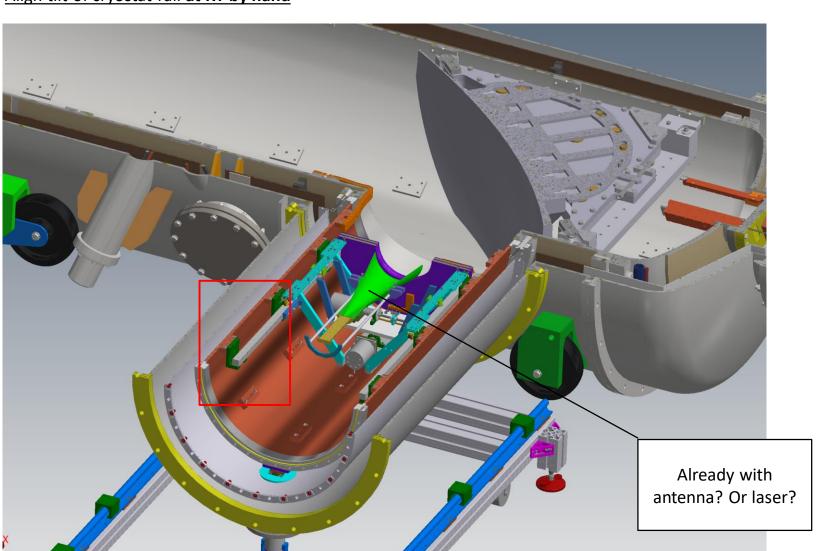




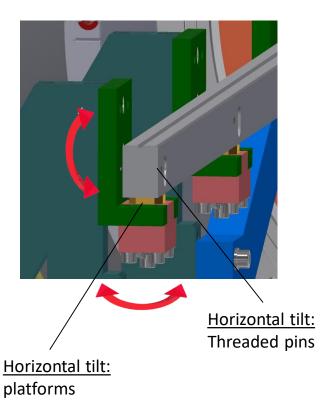
# MAX-PLANCK-INSTITUT FÜR PHYSIK

### alignment

#### Align tilt of cryostat rail at RT by hand



#### Vertical tilt at RT





Booster



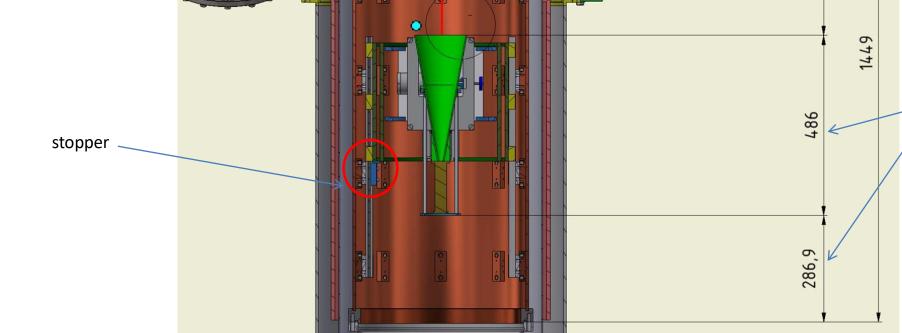
Initital position for 22 GHz, named "d\_mech", has to be found: measure distance from RC flange to end of antenna

#### References

676,067

mech

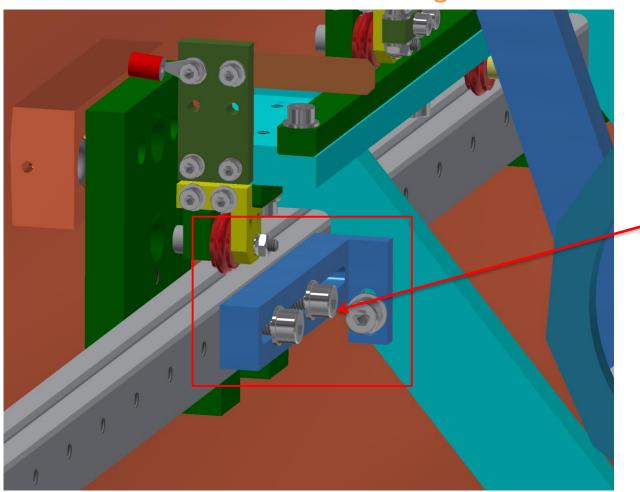
length of whole antenna distance from antenna to flange of RC







alignment

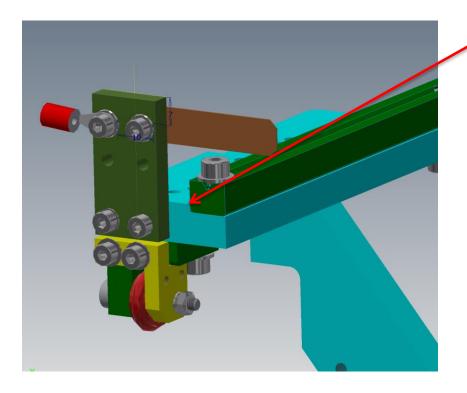


lock position of antenna setup by stopper piece (attached to rails)



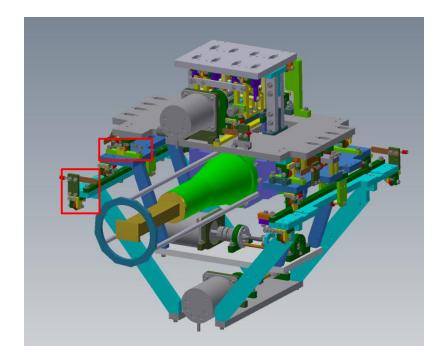


### alignment



### Align horizontal tilt of Z- and X-Axis at RT by hand:

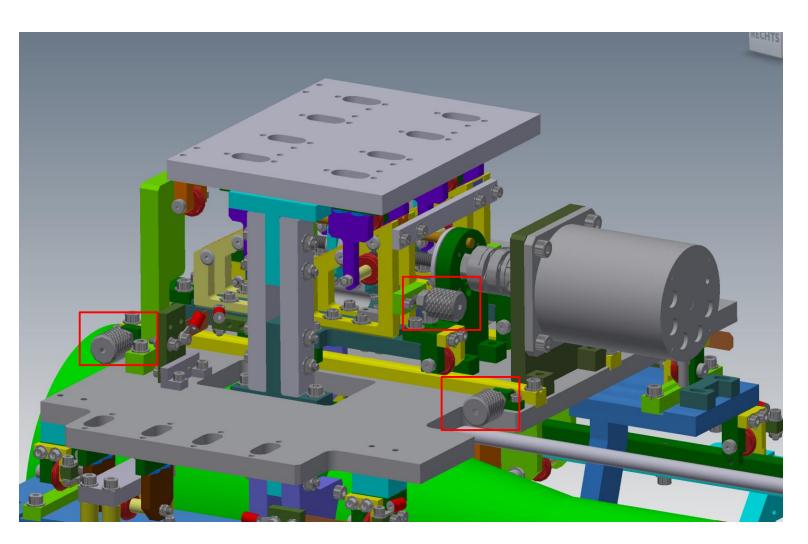
- defined edge to touch for rails
- <u>slotted hole</u>





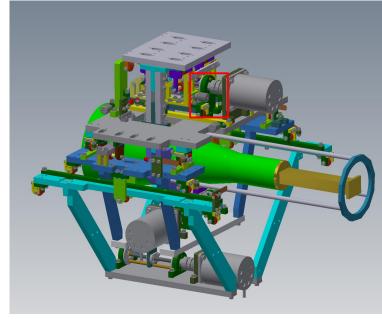






### Align horizontal & vertical tilt of Y-axis at RT by hand:

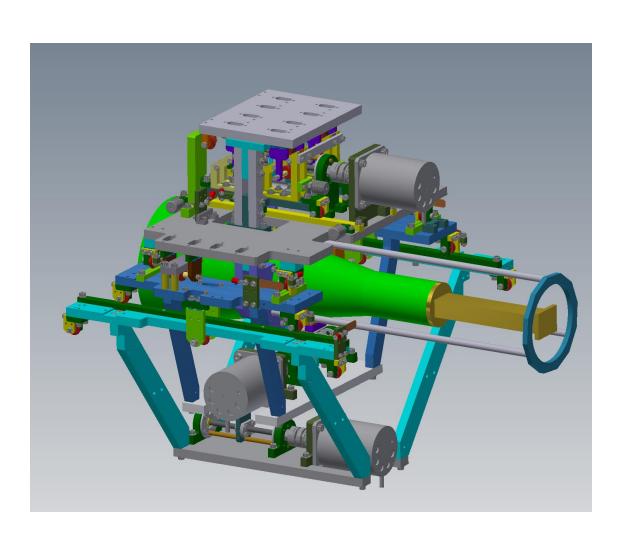
- <u>defined edge to touch</u>
- Adjusting screws





### MAX-PLANCK-INSTITUT FÜR PHYSIK

### alignment



#### **Production Status:**

- all mechanical parts in the workshops
- all purchase parts ordered





### absorber

