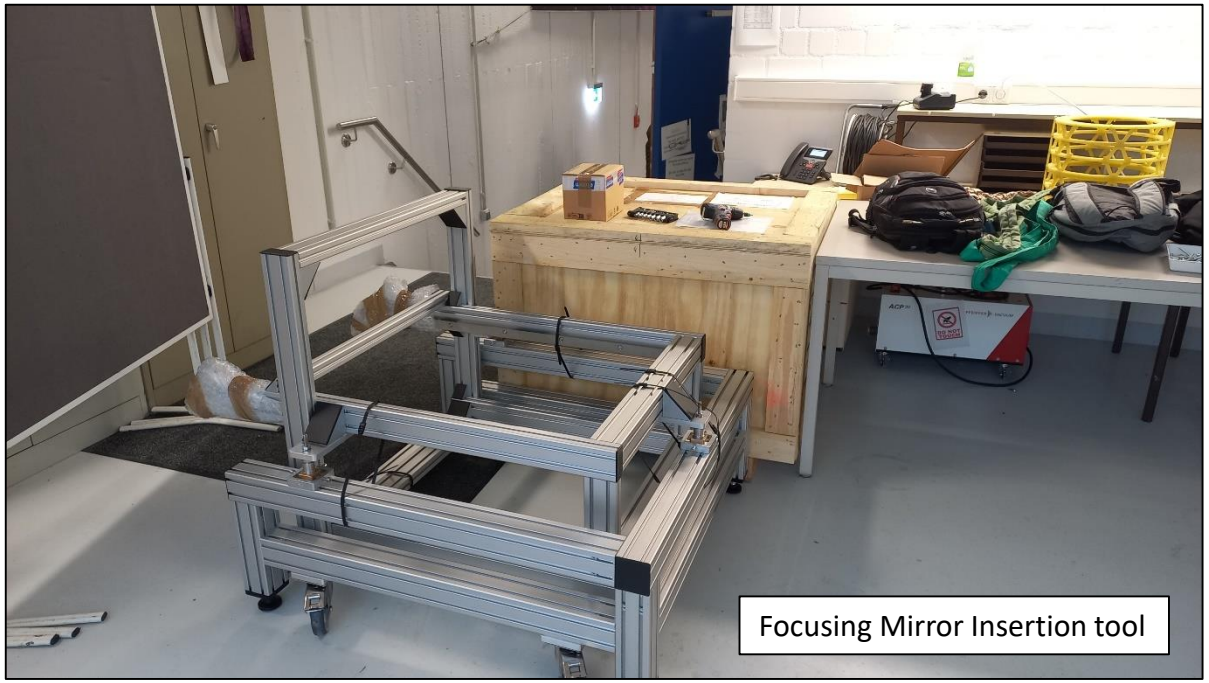
OB 300 – Interface Checking

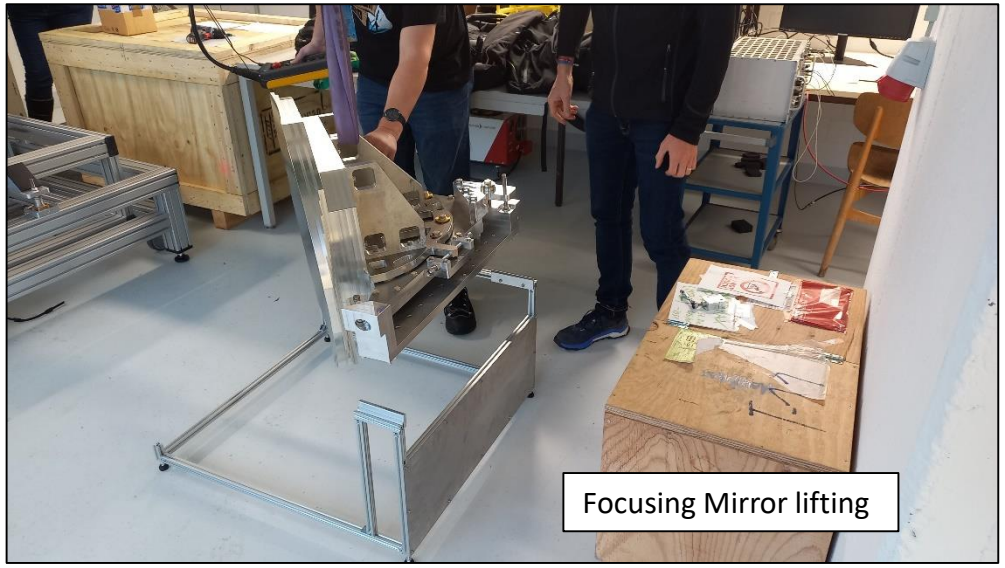
Hamburg Meeting 10-11 December 2024

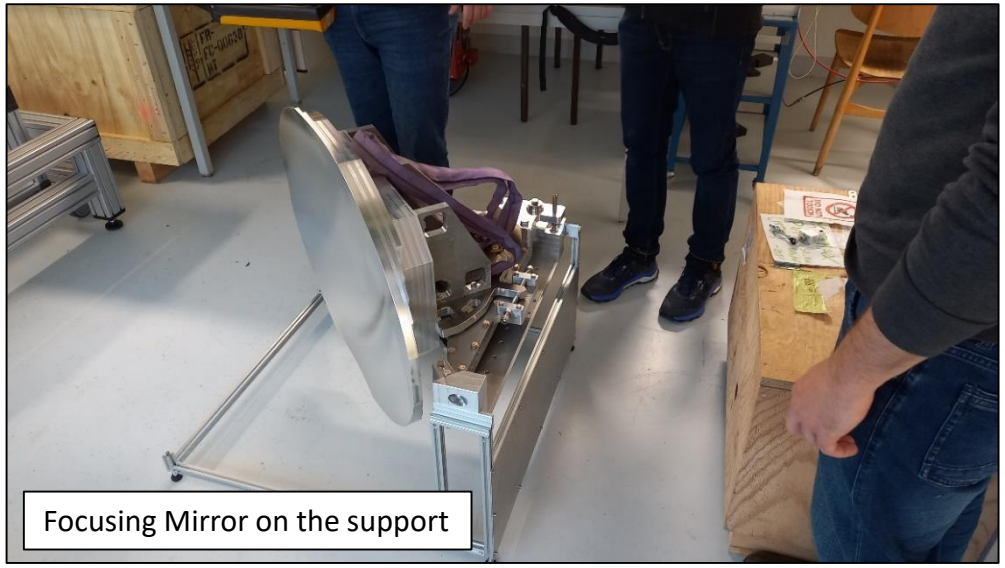
Pierre Karst - Dec 13th, 2024

Component handling


Focusing Mirror Insertion tool

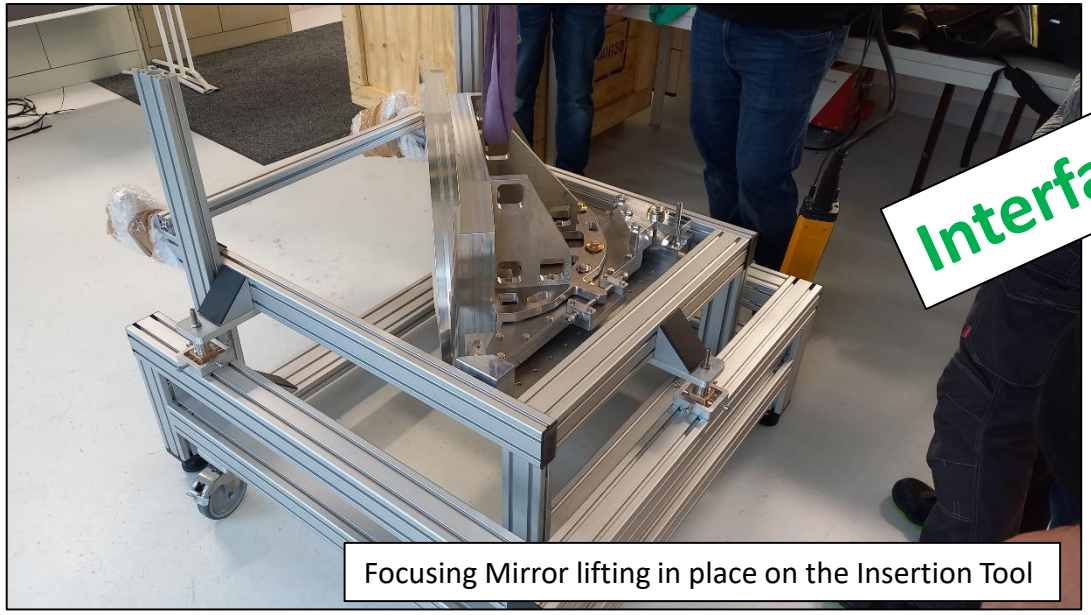

Focusing Mirror


Focusing Mirror lifting


Focusing Mirror on the support

Interface Focusing Mirror / Insertion Tool

Focusing Mirror lifting on the Insertion Tool

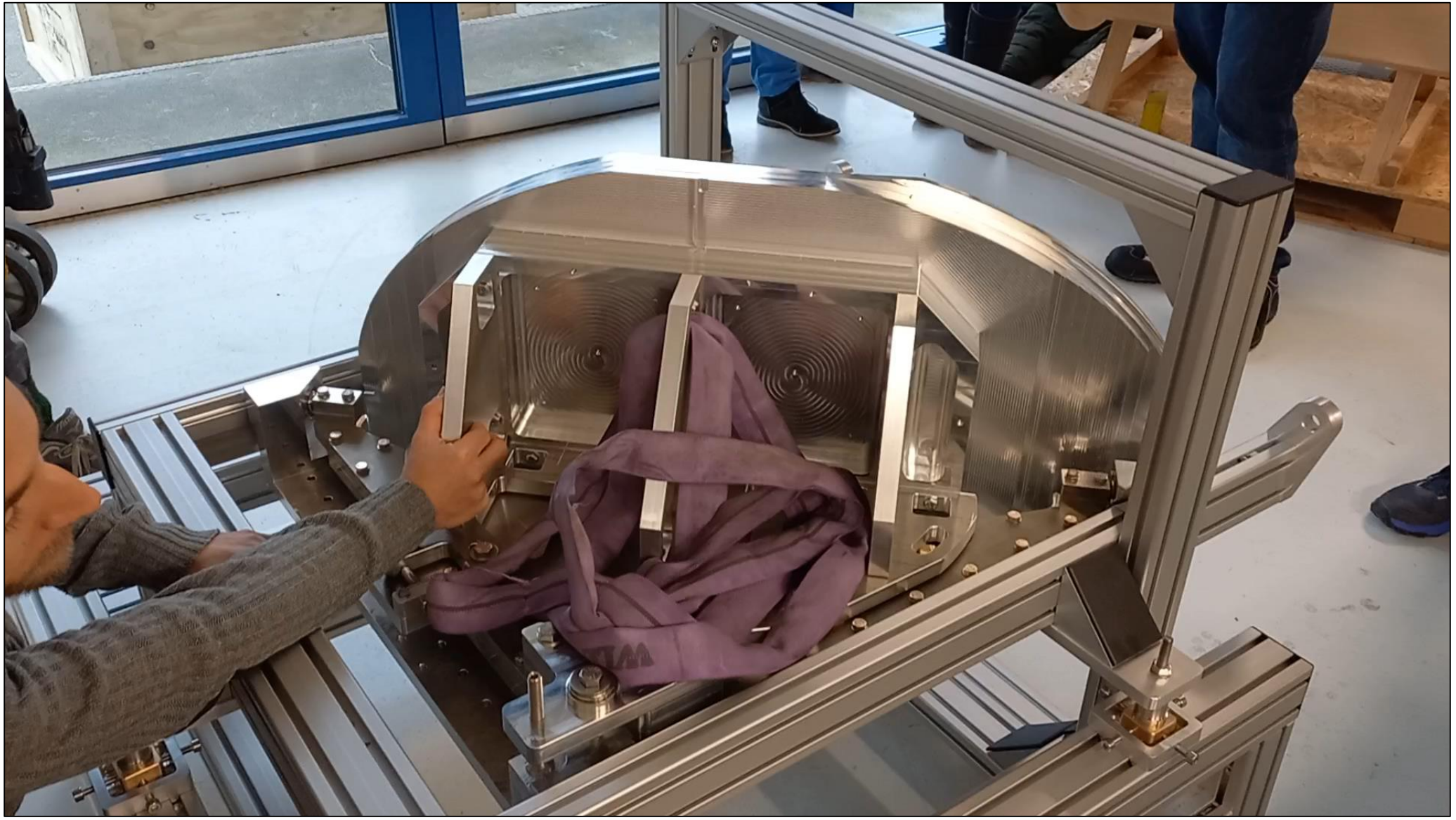


Focusing Mirror lifting in place on the Insertion Tool

Interface Validated

Support and guiding rails interface

Interface Focusing Mirror / Insertion Tool : Sliding by hand



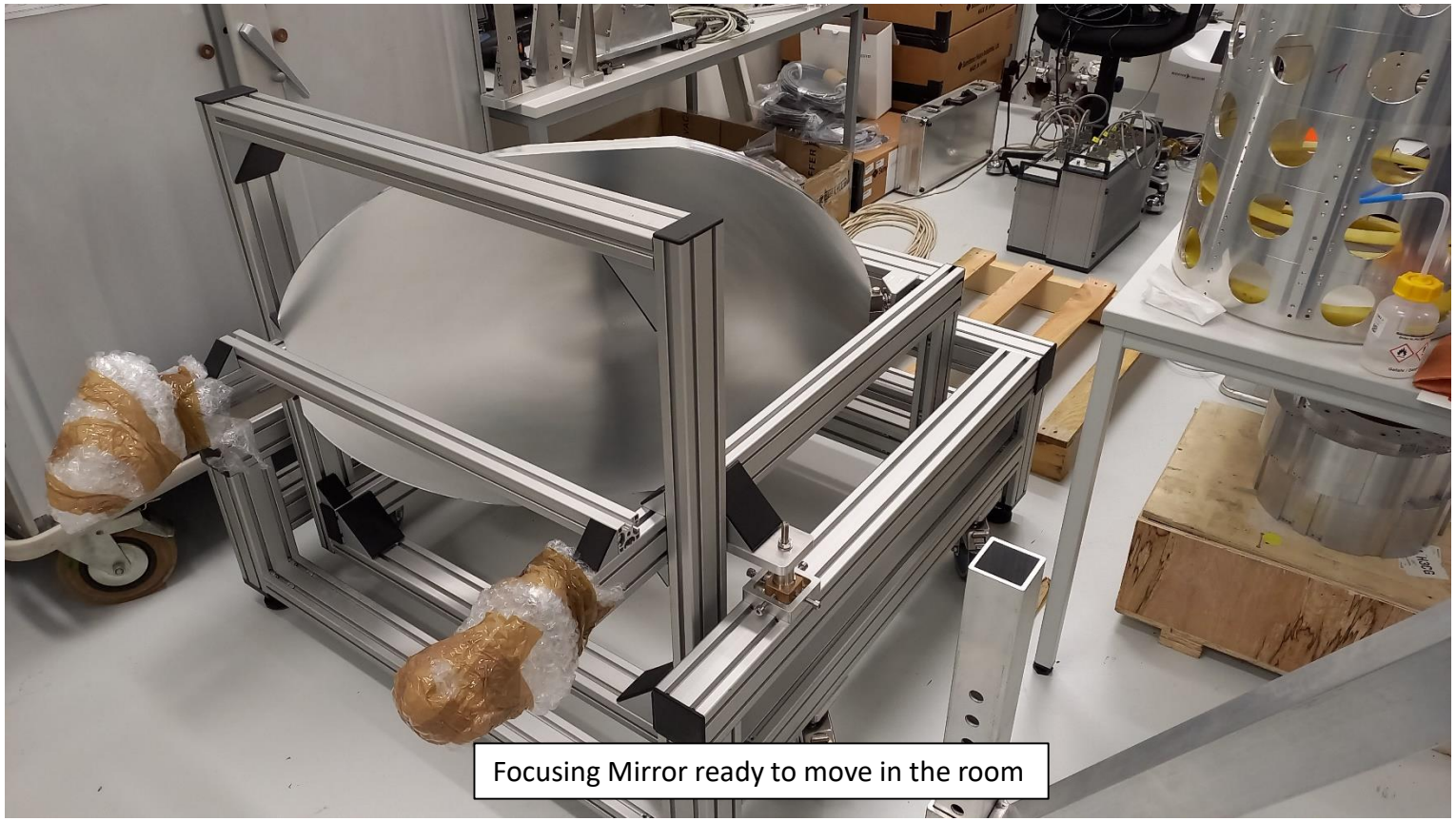
Component Transfer to the Cryostat room

Portable crane for the transfer from the corridor to the cryostat room

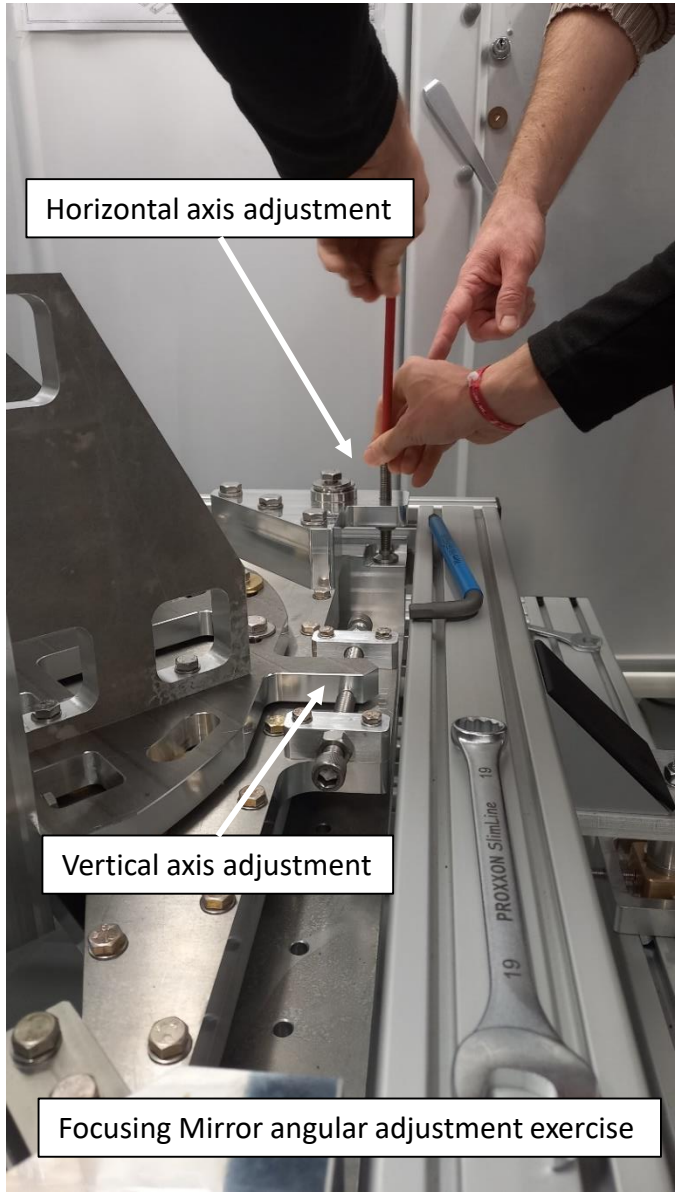
Insertion tool in the room

Focusing Mirror lifting in the room and installation on the tool

Focusing Mirro in the Cryostat Room



Focusing Mirror ready to move in the room



Focusing Mirror angular adjustment exercise

Booster and Spider Handling

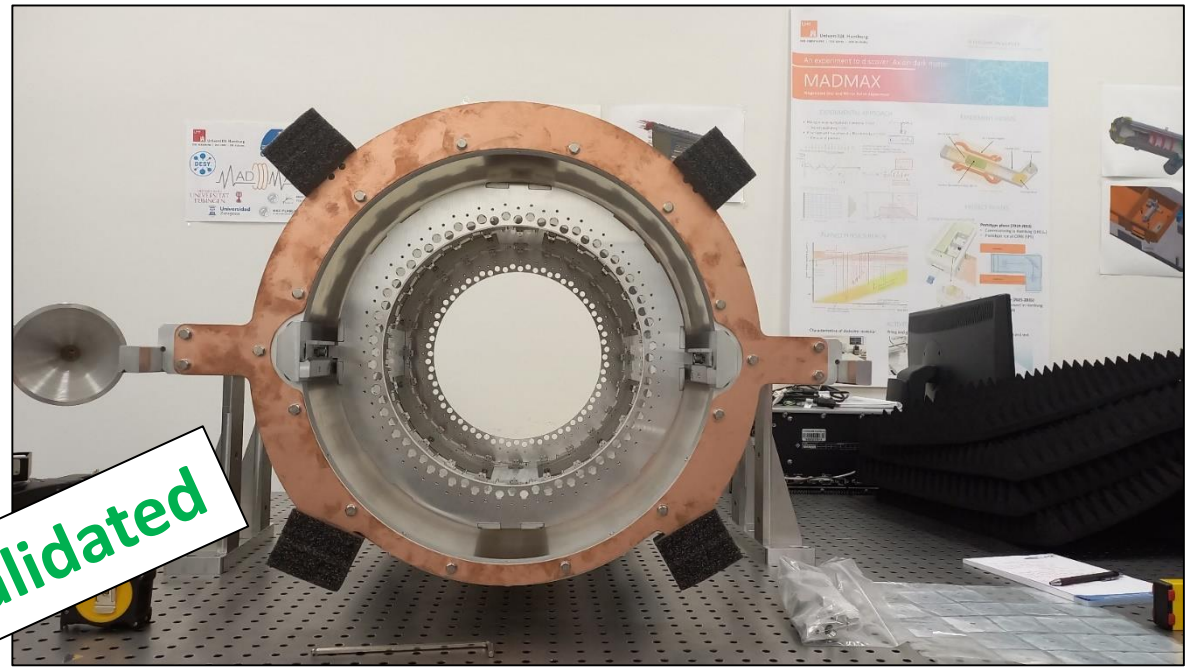
Spider Handling

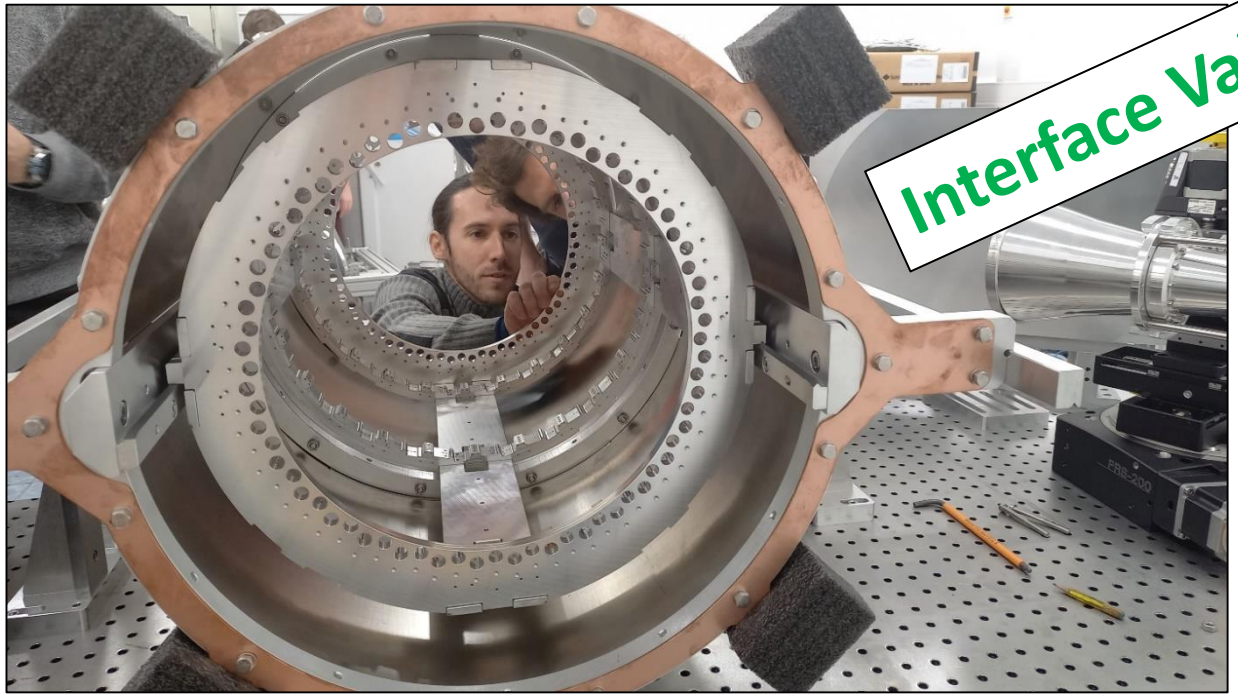

Booster Support Structure Handling


Booster Support Structure Insertion in the Spider

Booster in the Spider

Booster Support Structure in place in the spider





Interface Validated

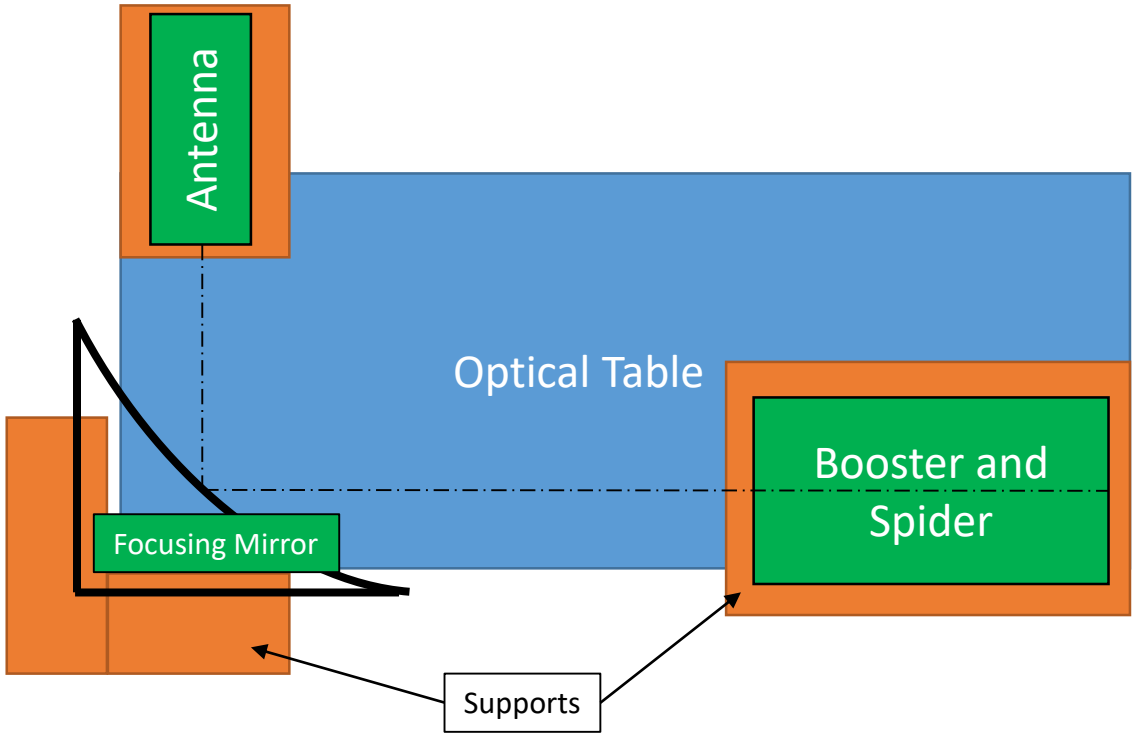
Plan for a alignment exercise before the Cryostat arrival

Further work for the installation on the optical table

Design structure for Focusing Mirror	David
Design for the Horn Antenna	Georg
Design Support for the Spider + Platform	Samuel &c Pierre
Design Support for the Booster	Marko
Implementation of copper inside Booster	Marko
Definition of the Transport sequences	Christoph
Interface for Booster insertion into Spider	S & P & Ch & M
Alignment Tools (Laser + Target) Horn Antenna	Georg
Alignment Tools (Laser + Target) Spider	Samuel & Pierre
Booster Lifting Setup	Marko

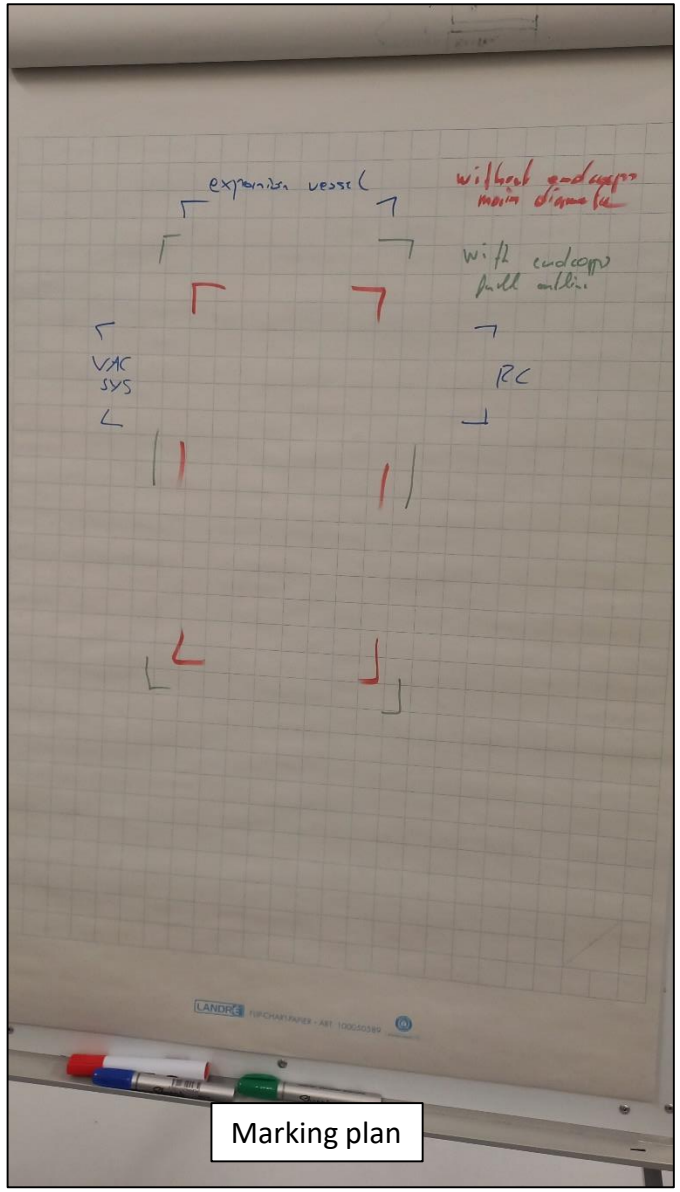
Timeline (Expected End)

Design	Mid Feb 25
Production	Mid March 25
Installation	End March 25
Testing	Mid April 25
Decommissioning	End April 25
Cryostat arriving	1th of May



Setup Scheme

Clearance pf the Cryostat place and marking of the occupied space

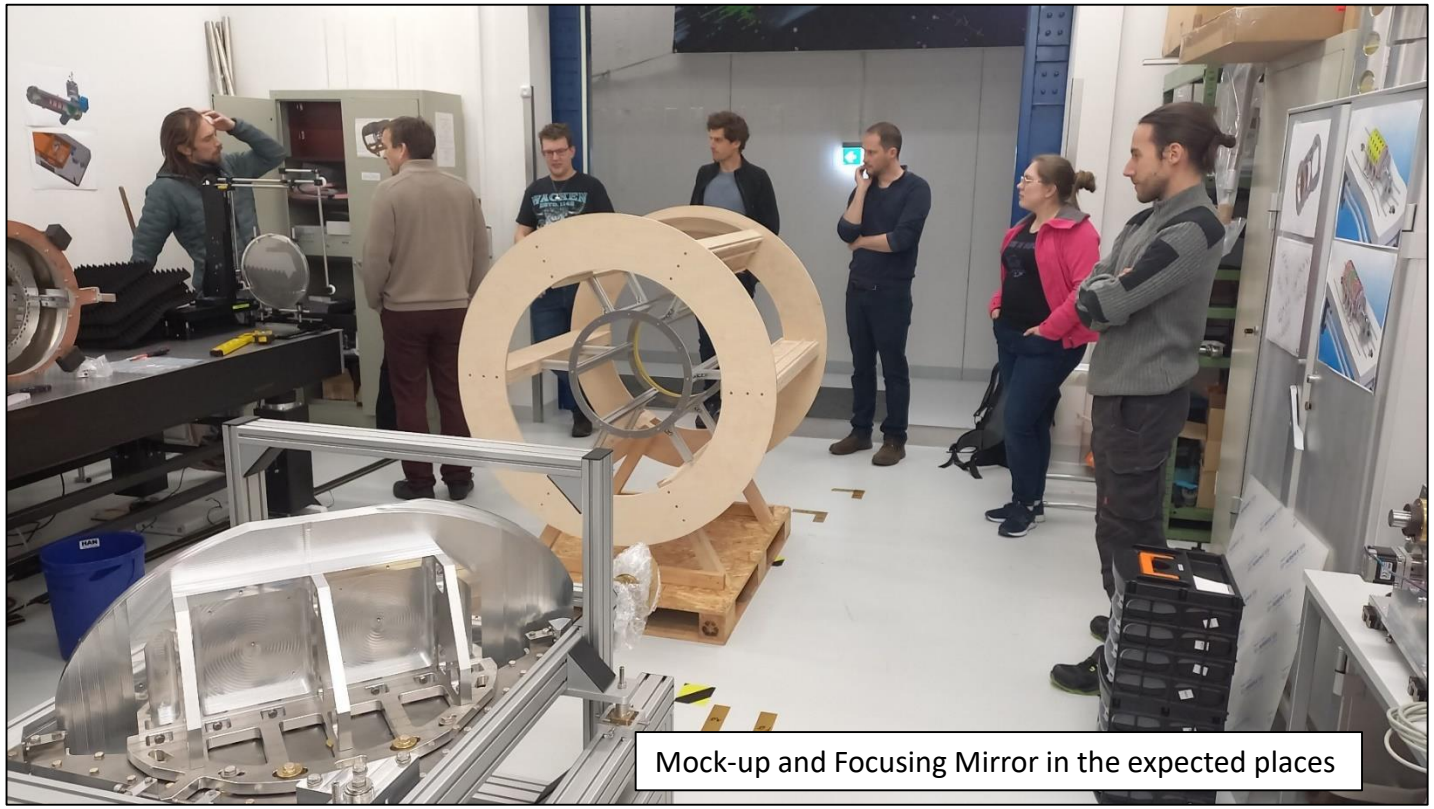


Marking plan

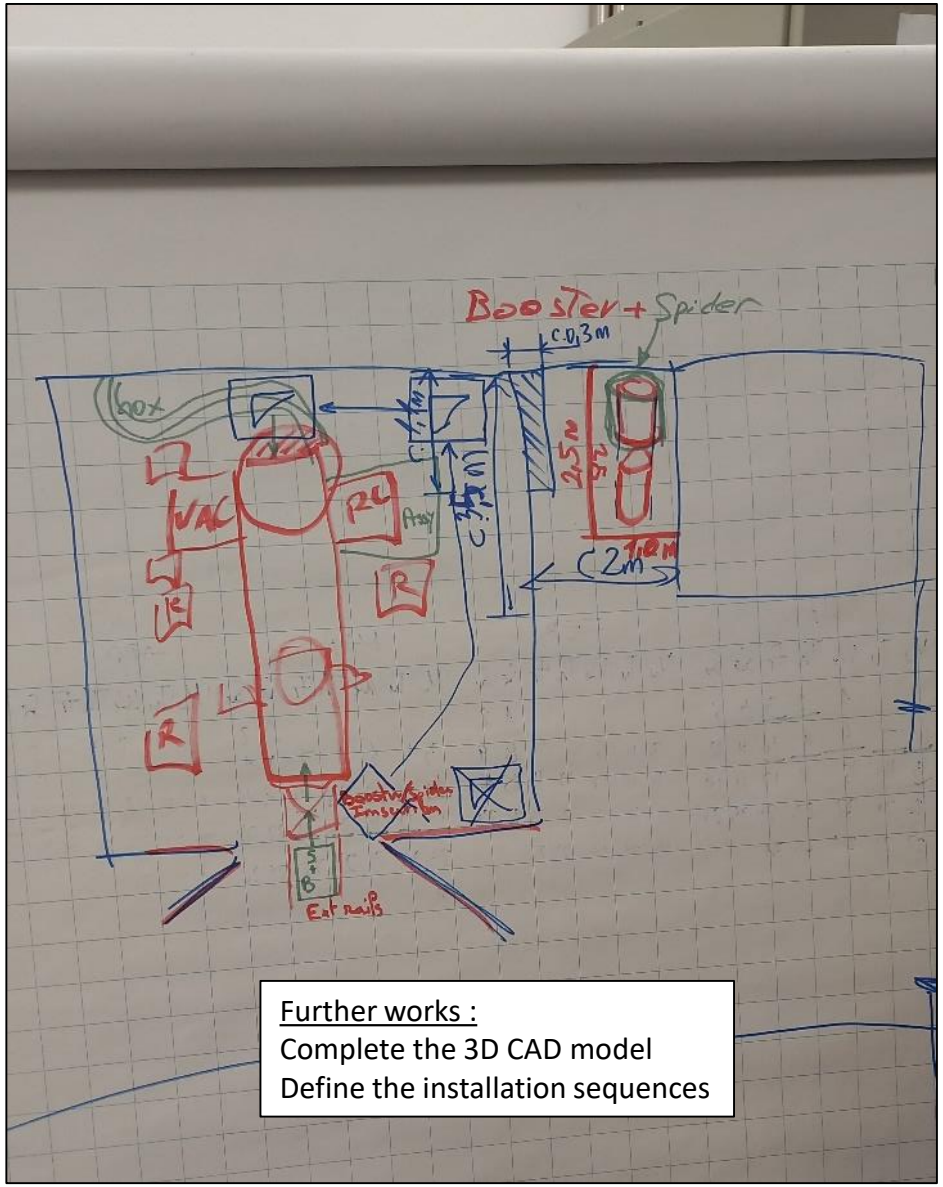

Cryostat Clear spacec


Marking

Cryostat and final installation first simulation and plan to be refined

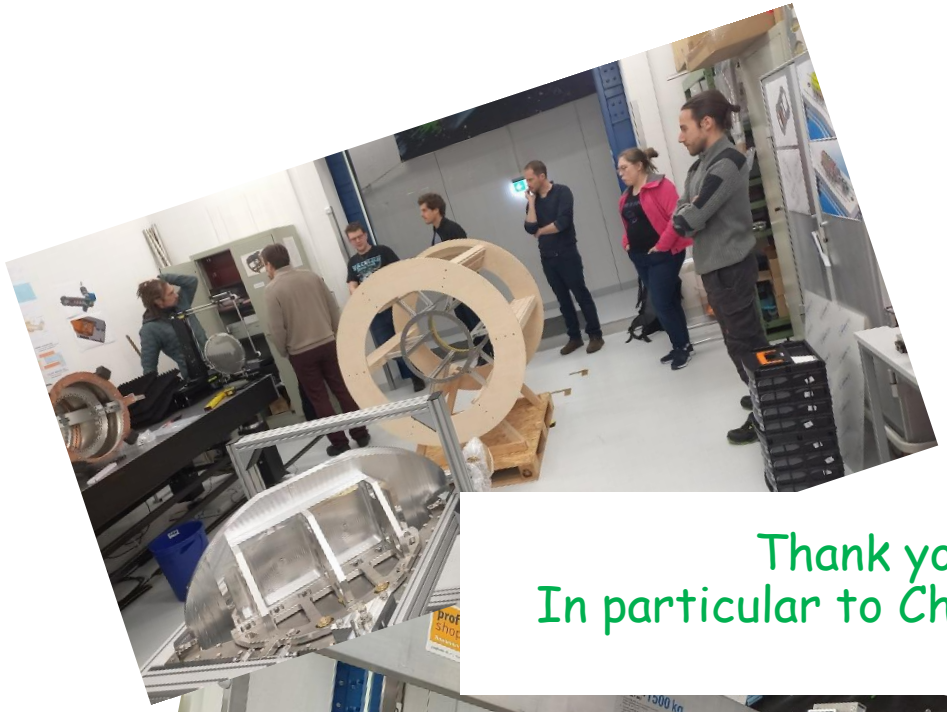


Mock-up and Focusing Mirror in the expected places



Further works :
Complete the 3D CAD model
Define the installation sequences

Congratulation and thanks



Thank you all for this successful milestone
In particular to Christoph for the welcome and his very active contribution

Conclusion

- ❑ We learnt to handle the component in the different spaces
- ❑ The Interface focusing mirror / Insertion Tool is validated
- ❑ The interface Booster / Spider is validated
- ❑ The plan for an alignment exercise in April 25 is defined
- ❑ The cryostat room is in preparation (clearance + marking)
- ❑ The final installation plan is to be done (3D model + sequences)