

PAUL SCHERRER INSTITUT



Estia  
Estia



EUROPEAN  
SPALLATION  
SOURCE



Artur Glavic :: Sven Schütz :: Estia Team :: Paul Scherrer Institut

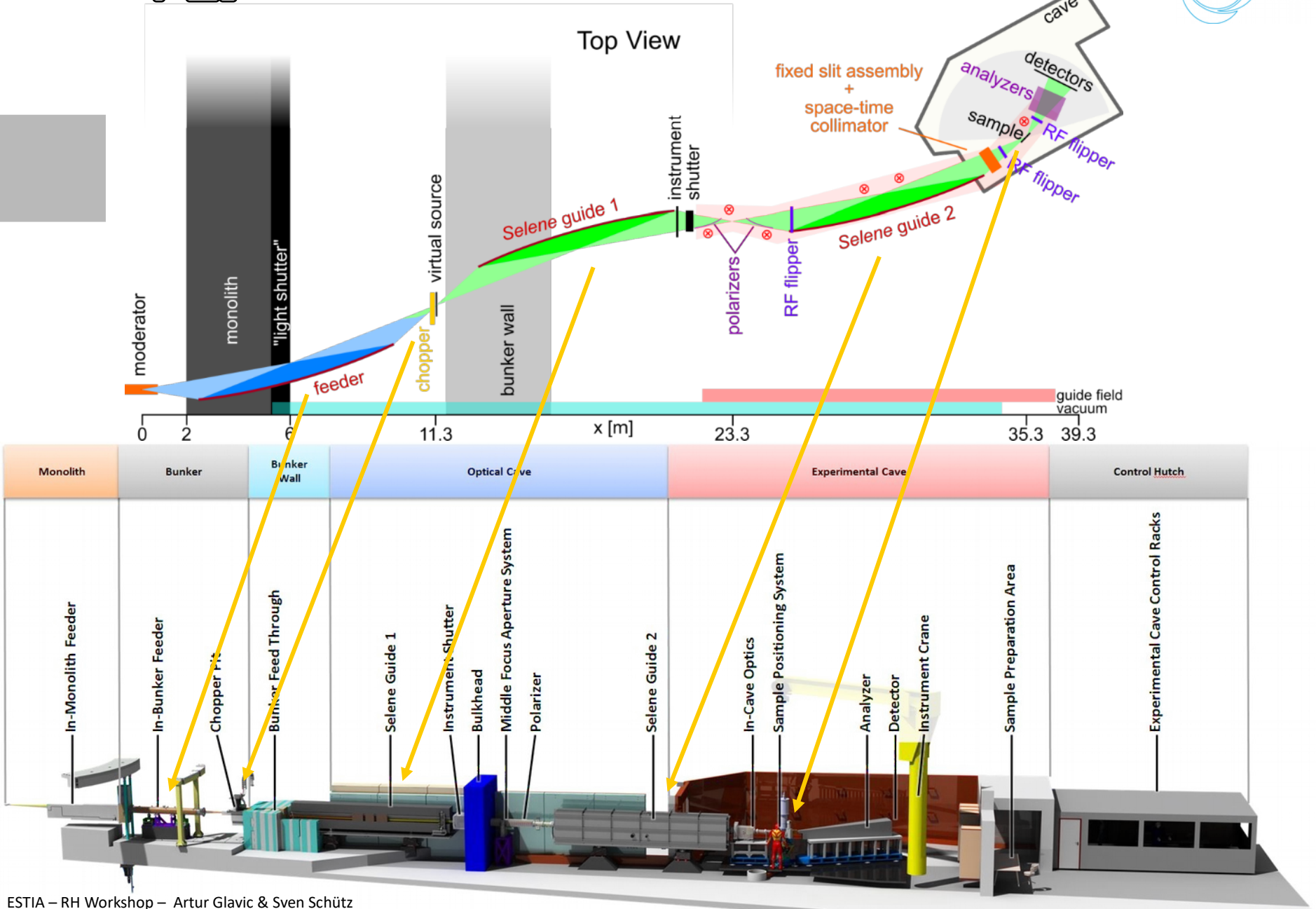
# ESTIA – In-Bunker component design and RH

ESS RH Workshop

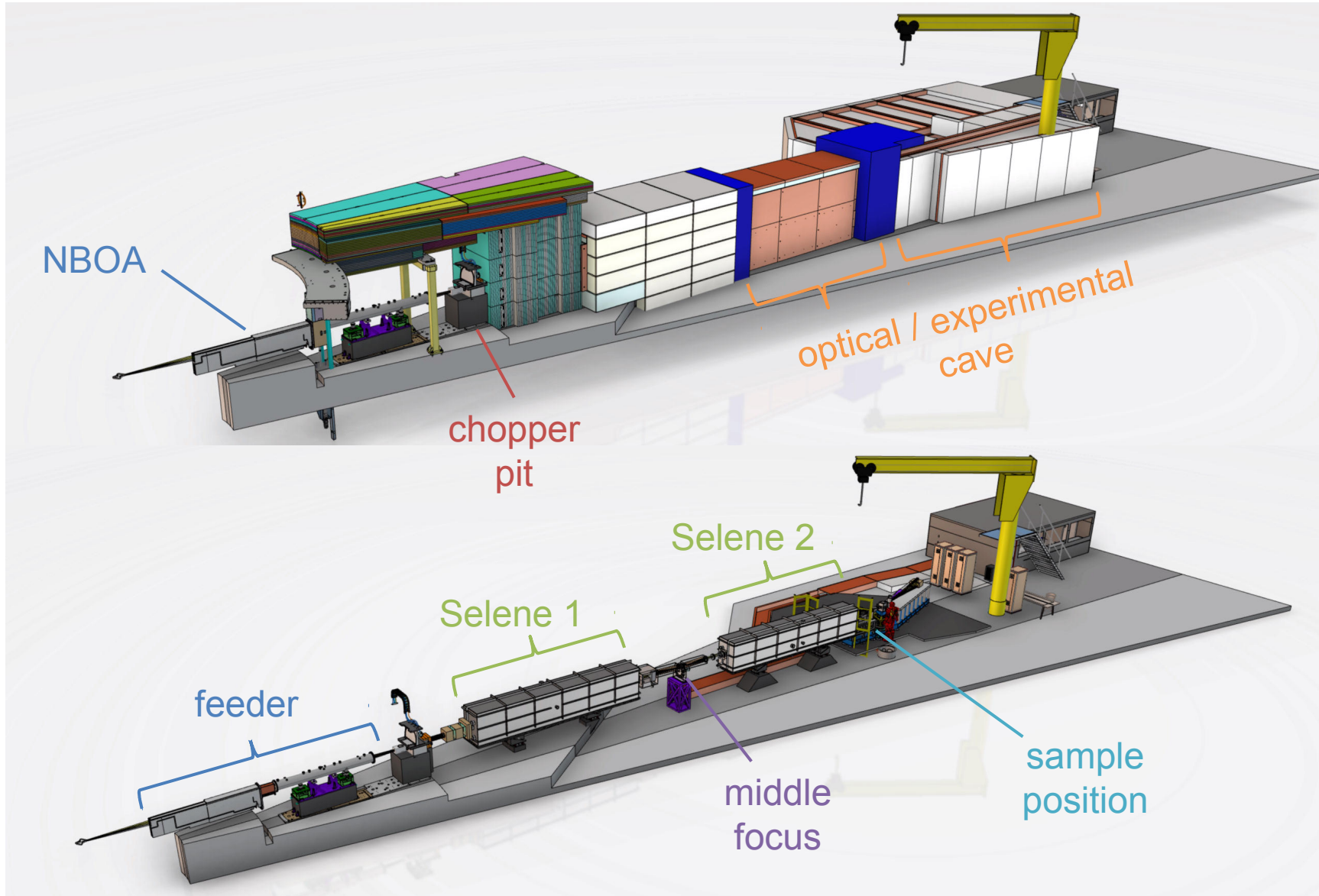


- Estia Instrument Overview
- In-Bunker installation Overview
  
- In-Bunker feeder
  - Design overview
  - System installation and removal (RH I)
  - Guide installation and reference measurement
  - Guide adjustment (RH II)
  
- Chopper Pit
  - Design overview
  - Chopper and Virtual Source cage (RH II)
  - Base and collimator structure (RH I) with adjustment (RH II)
  
- Bunker Wall Feedthrough
  - Access to collimator insert (RH II)
  
- Questions

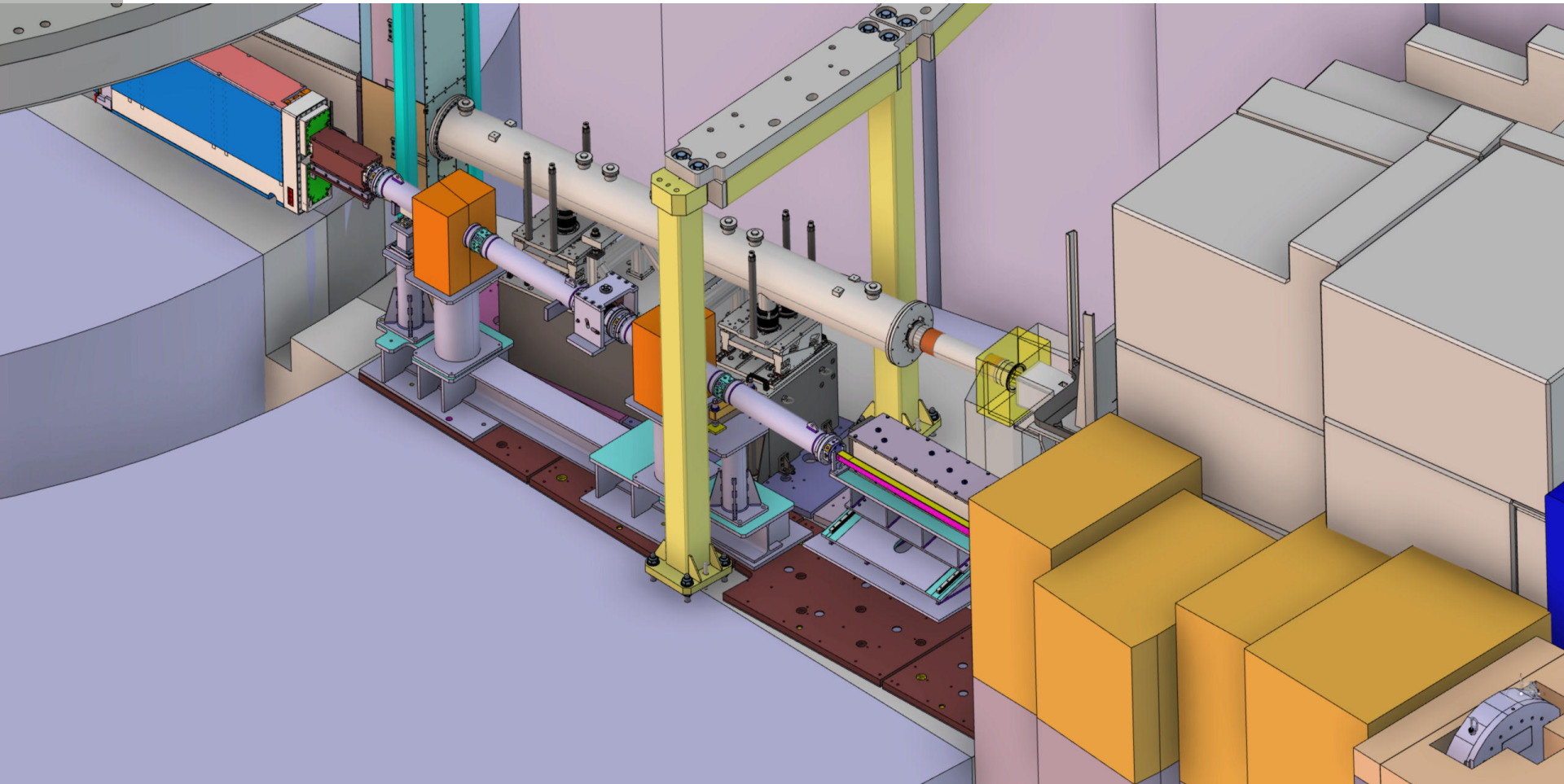
# Estia instrument overview



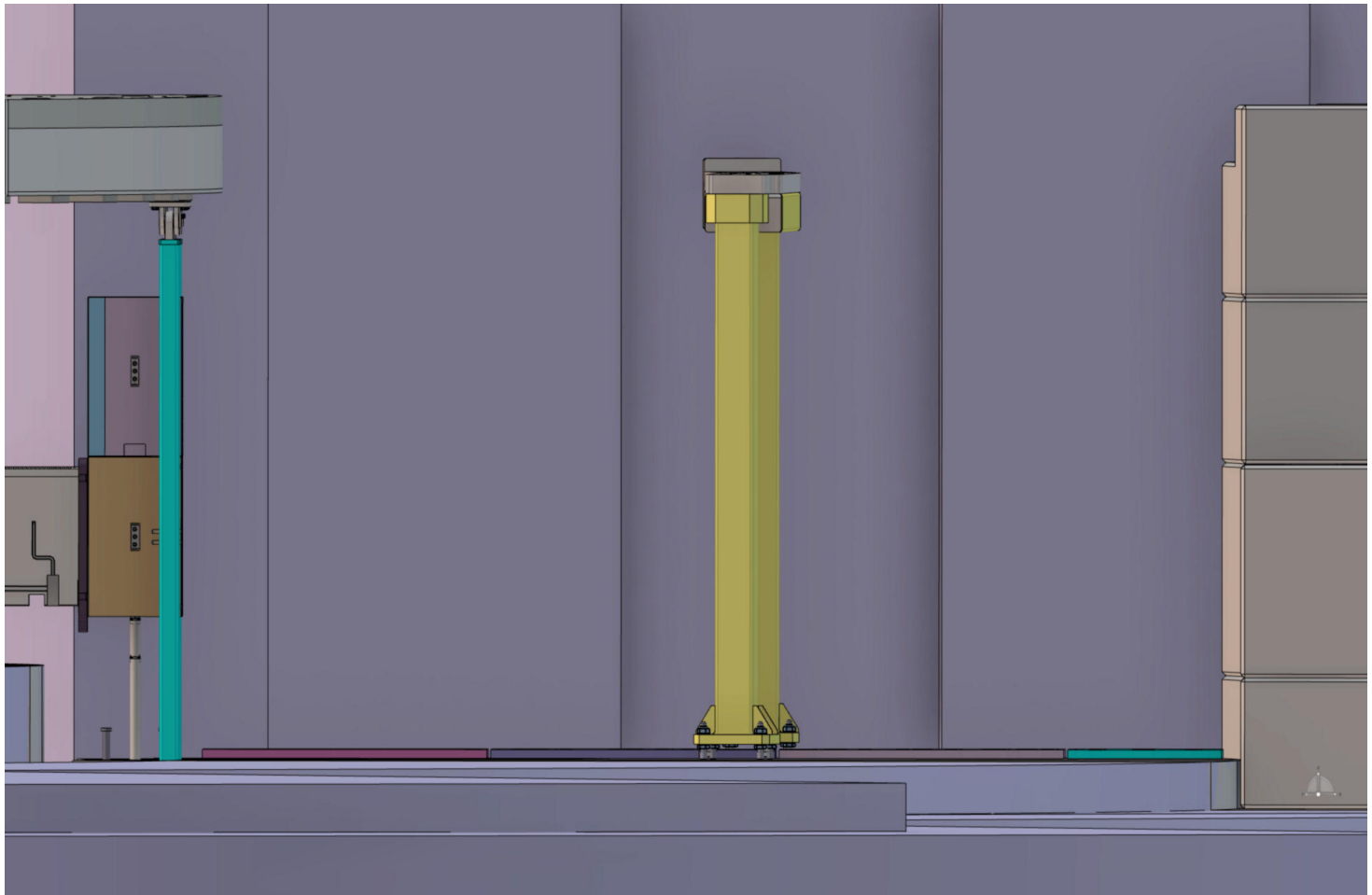
# Estia instrument overview



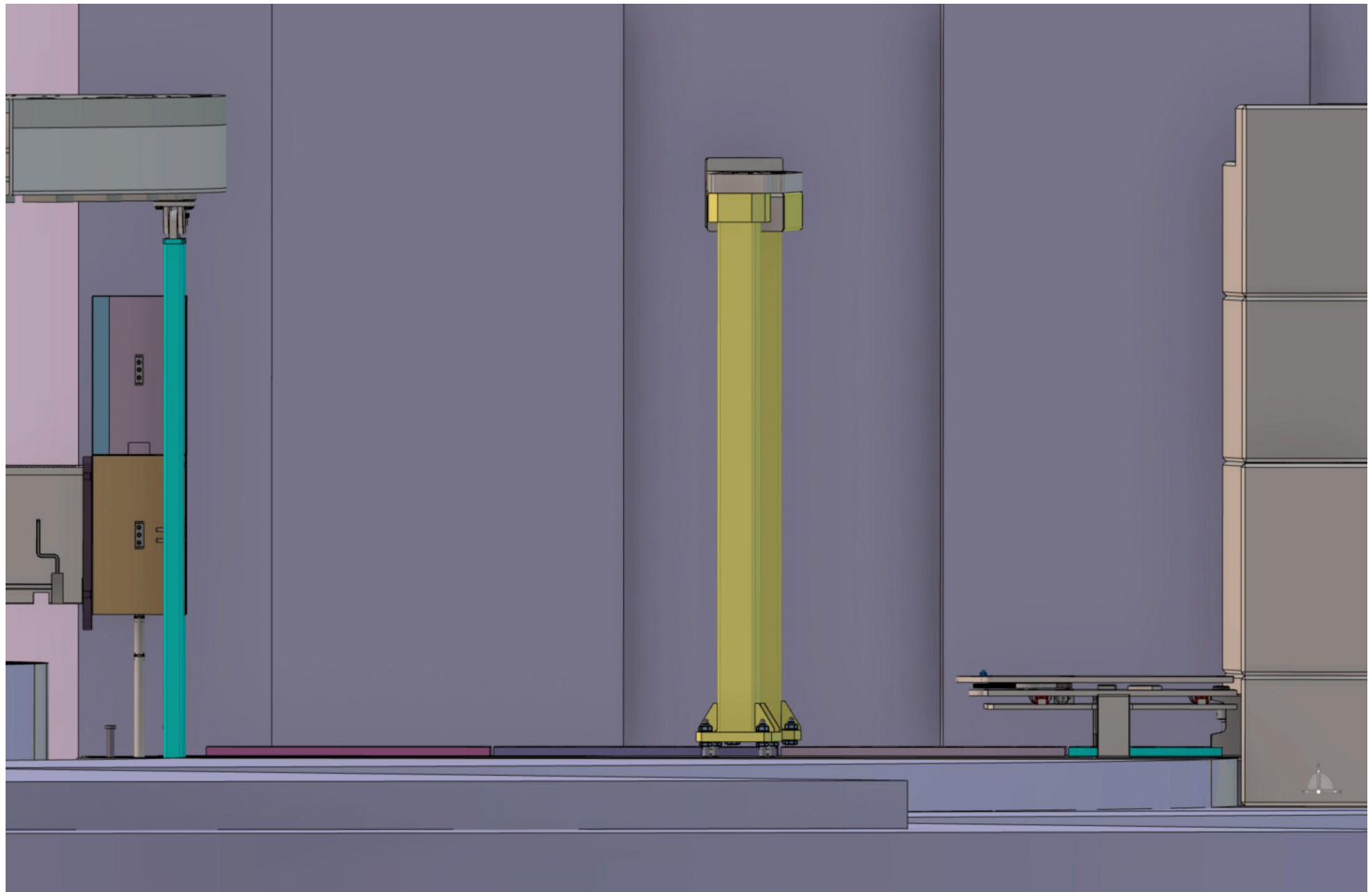
# Estia in-bunker overview



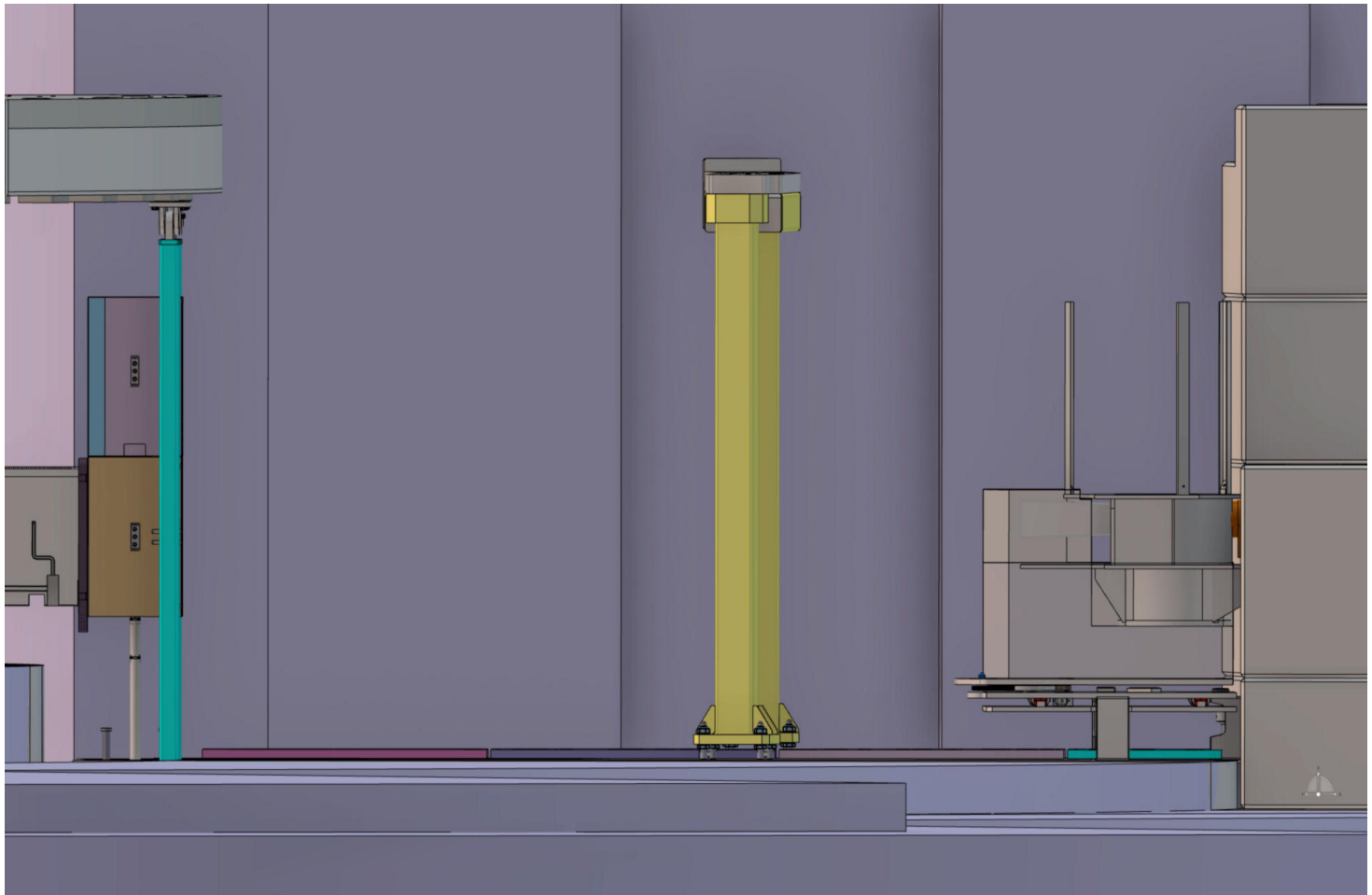
# Estia in-bunker installation



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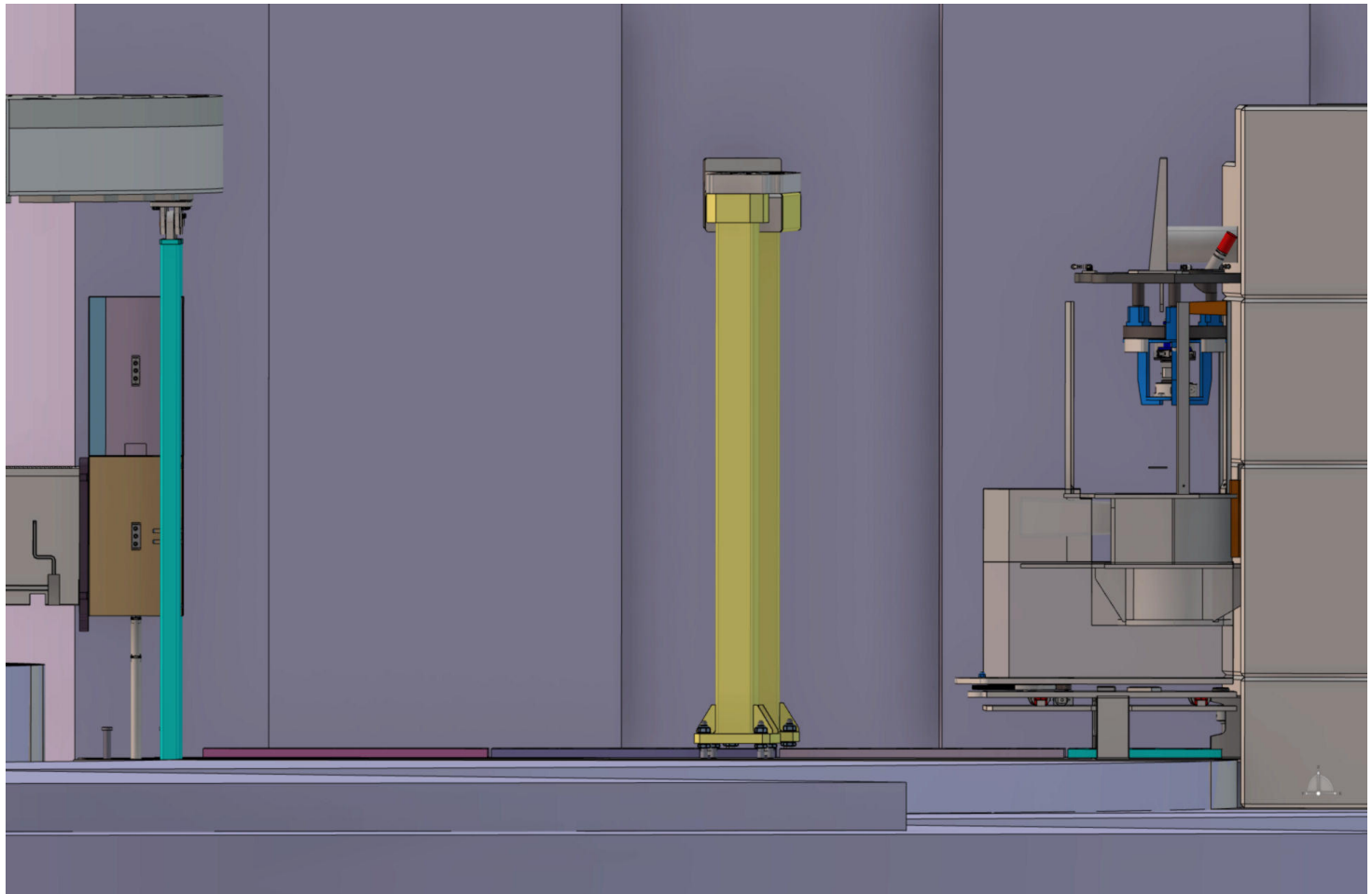


# Estia in-bunker installation

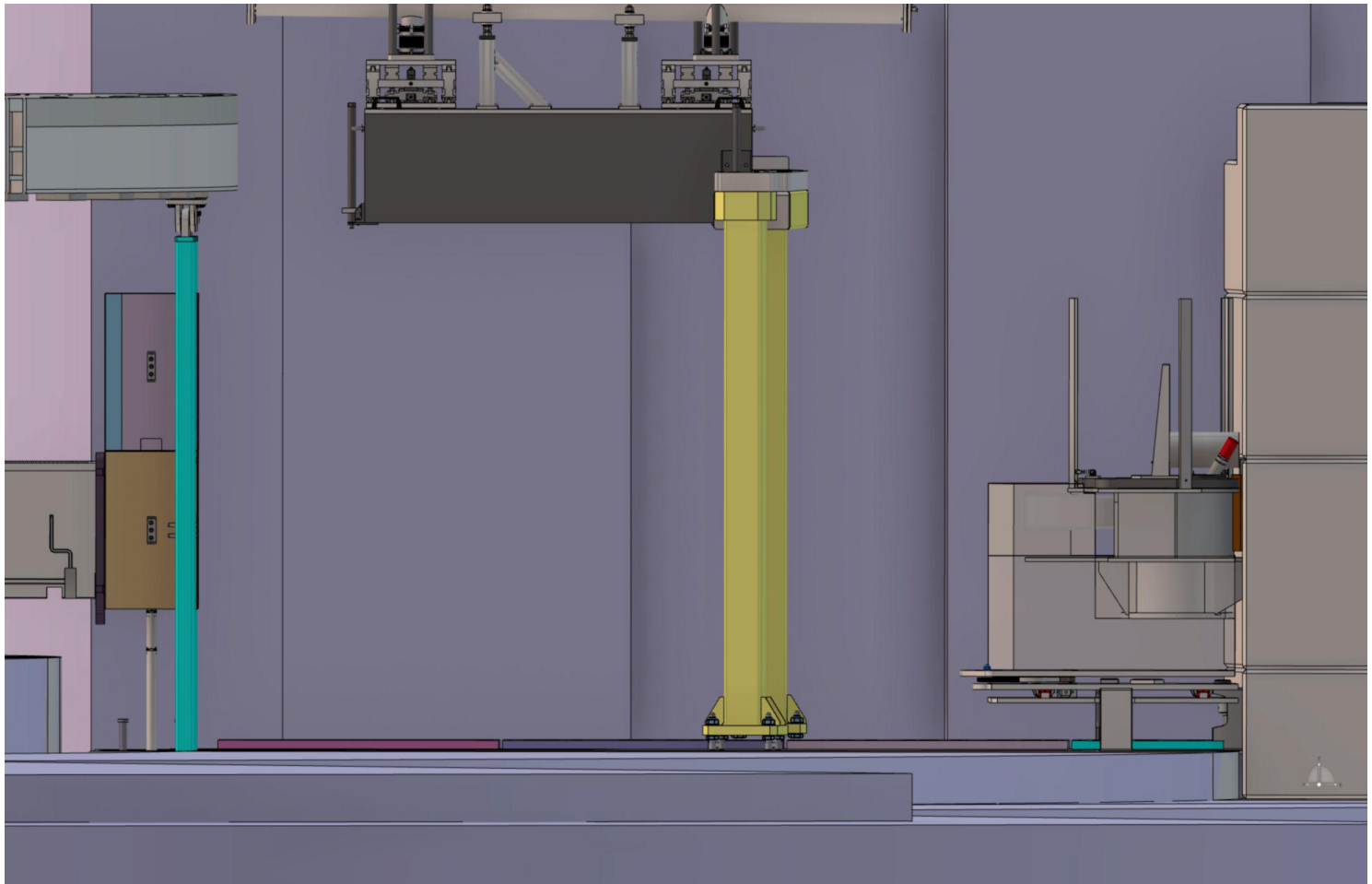




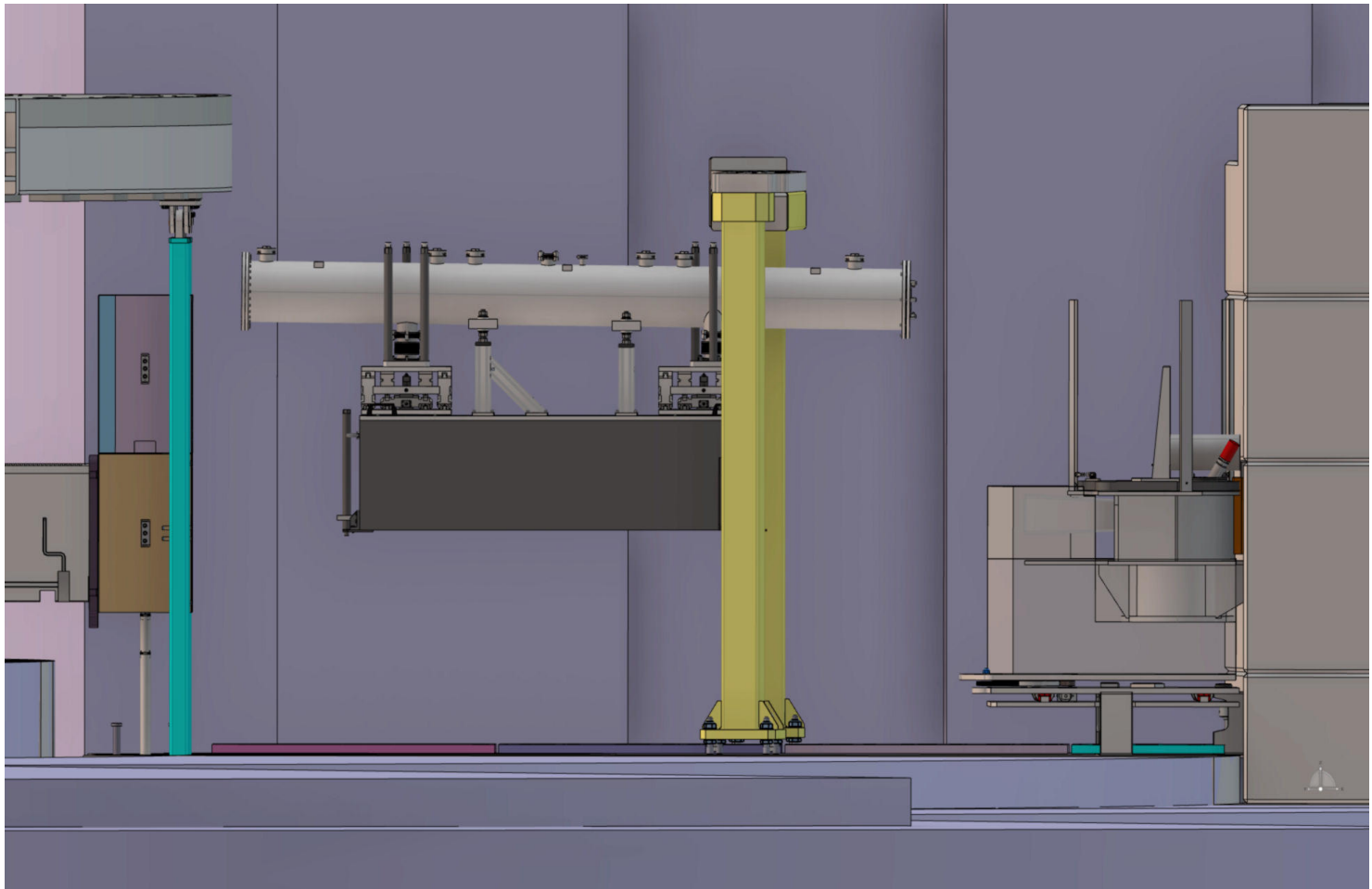
# Estia in-bunker installation



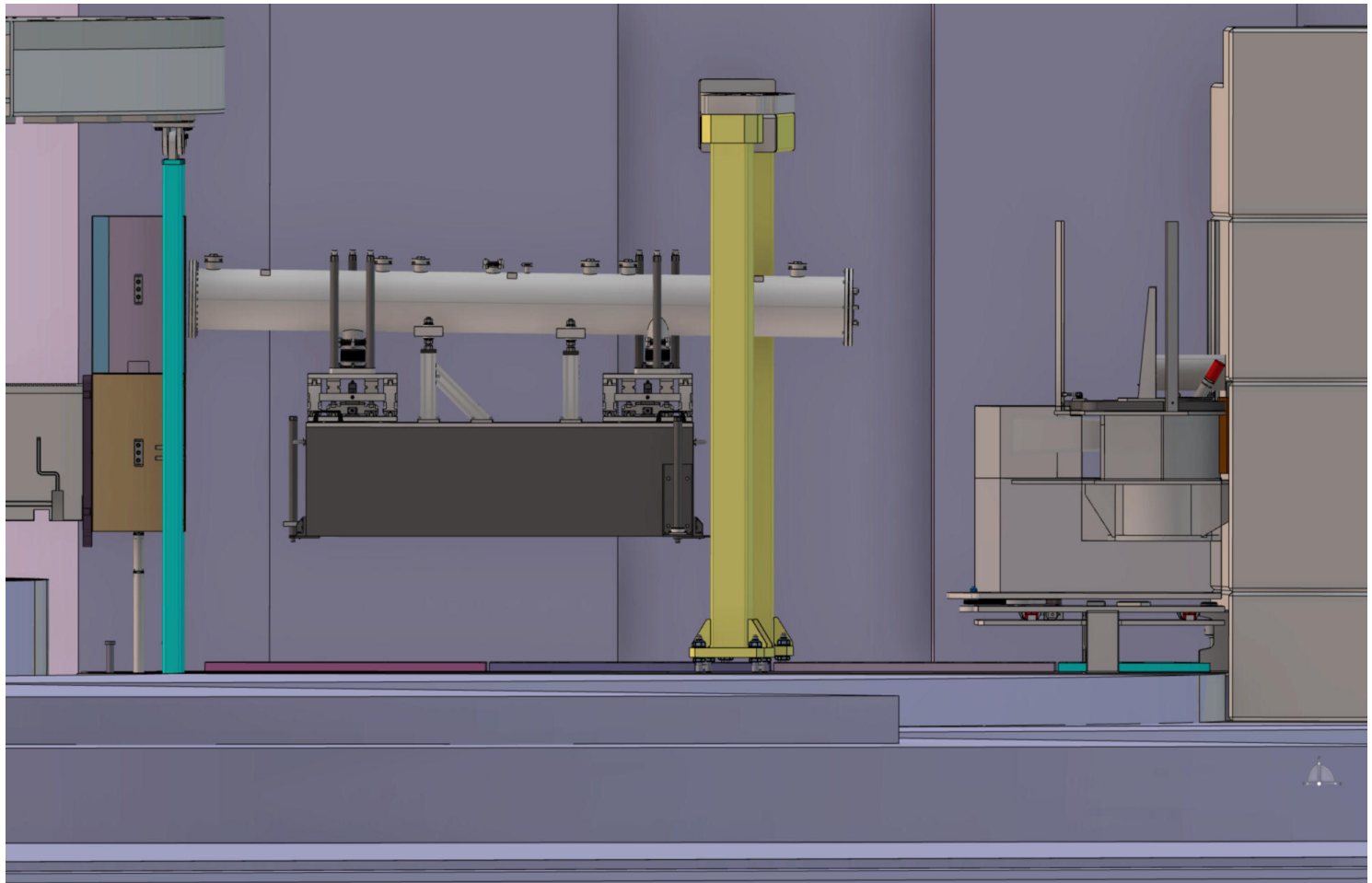
# Estia in-bunker installation



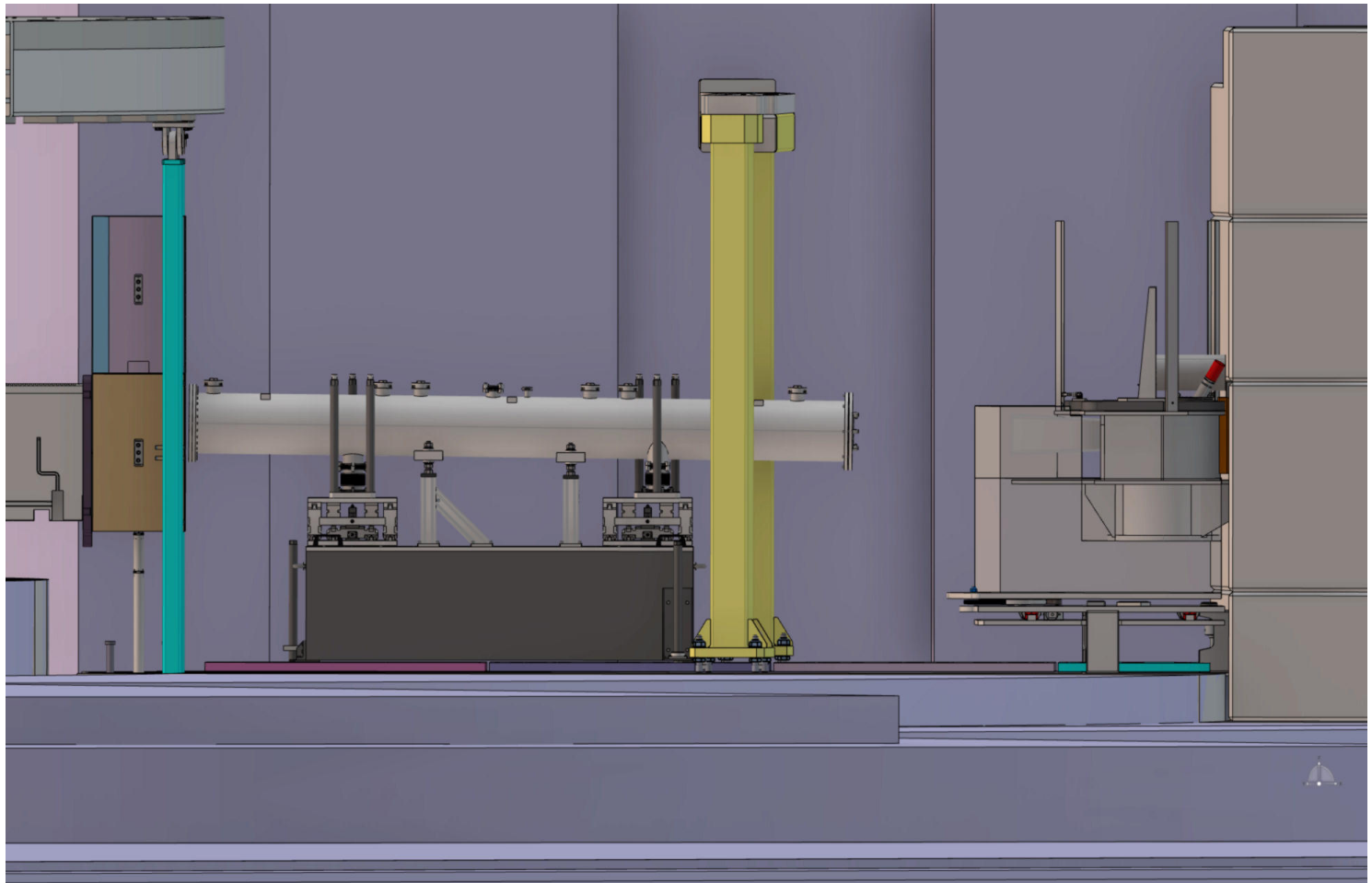
# Estia in-bunker installation



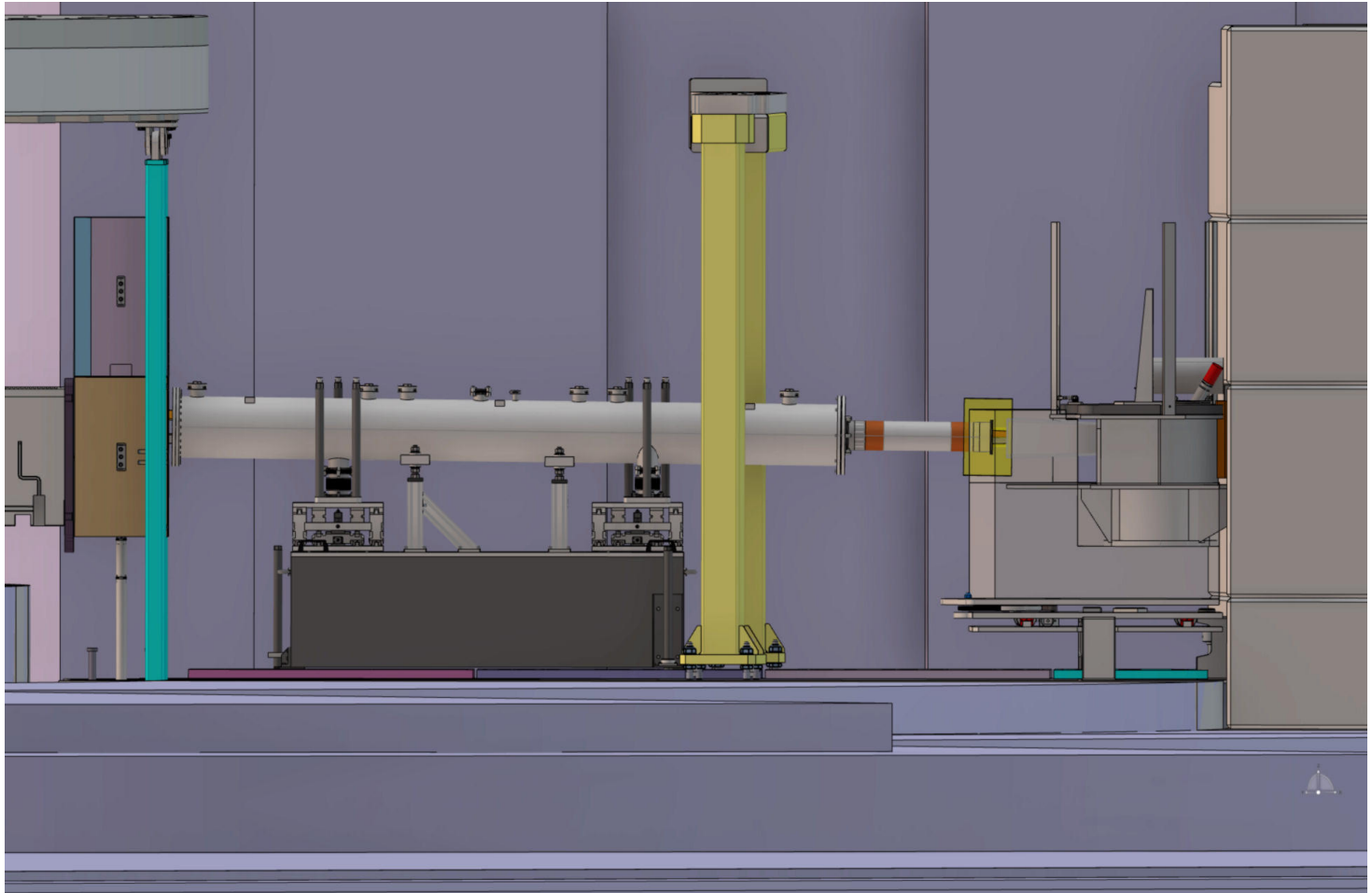
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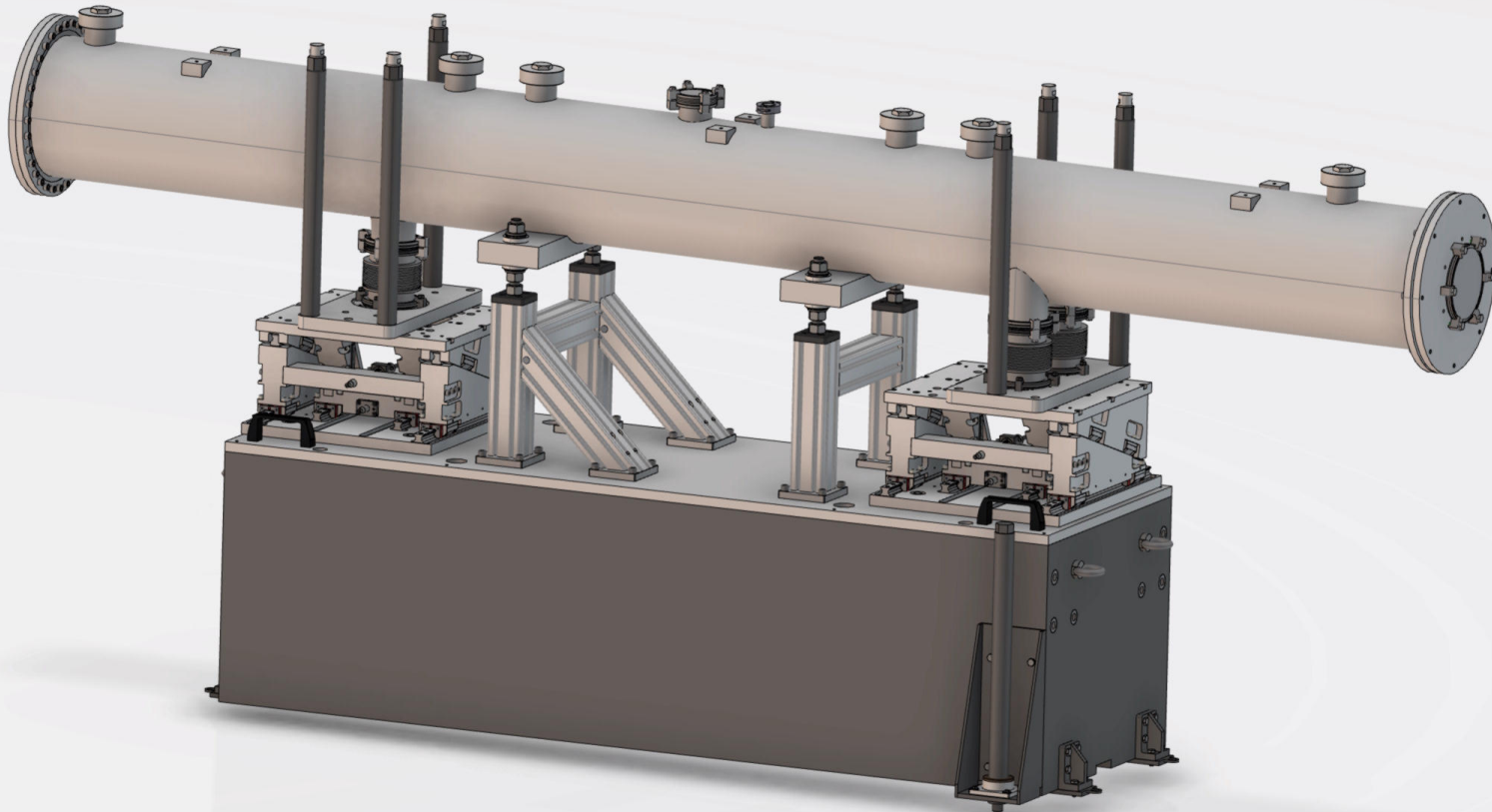


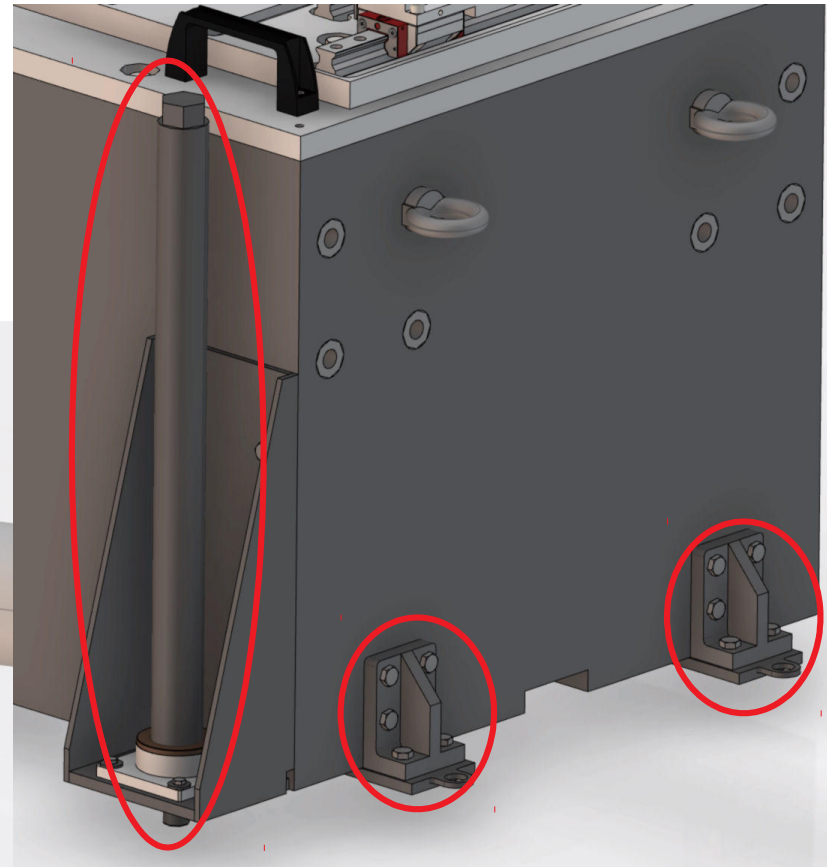
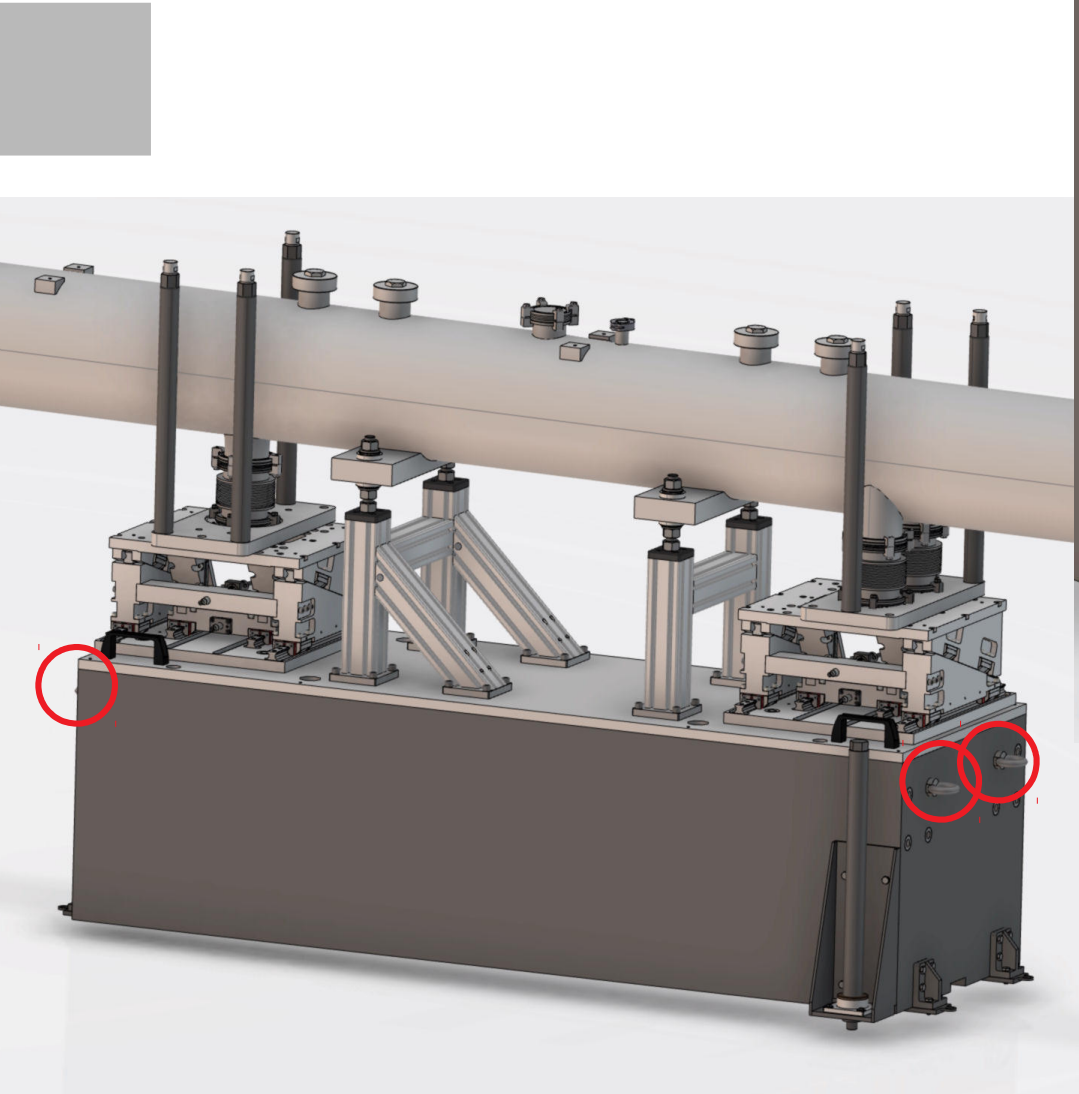
# Estia in-bunker installation



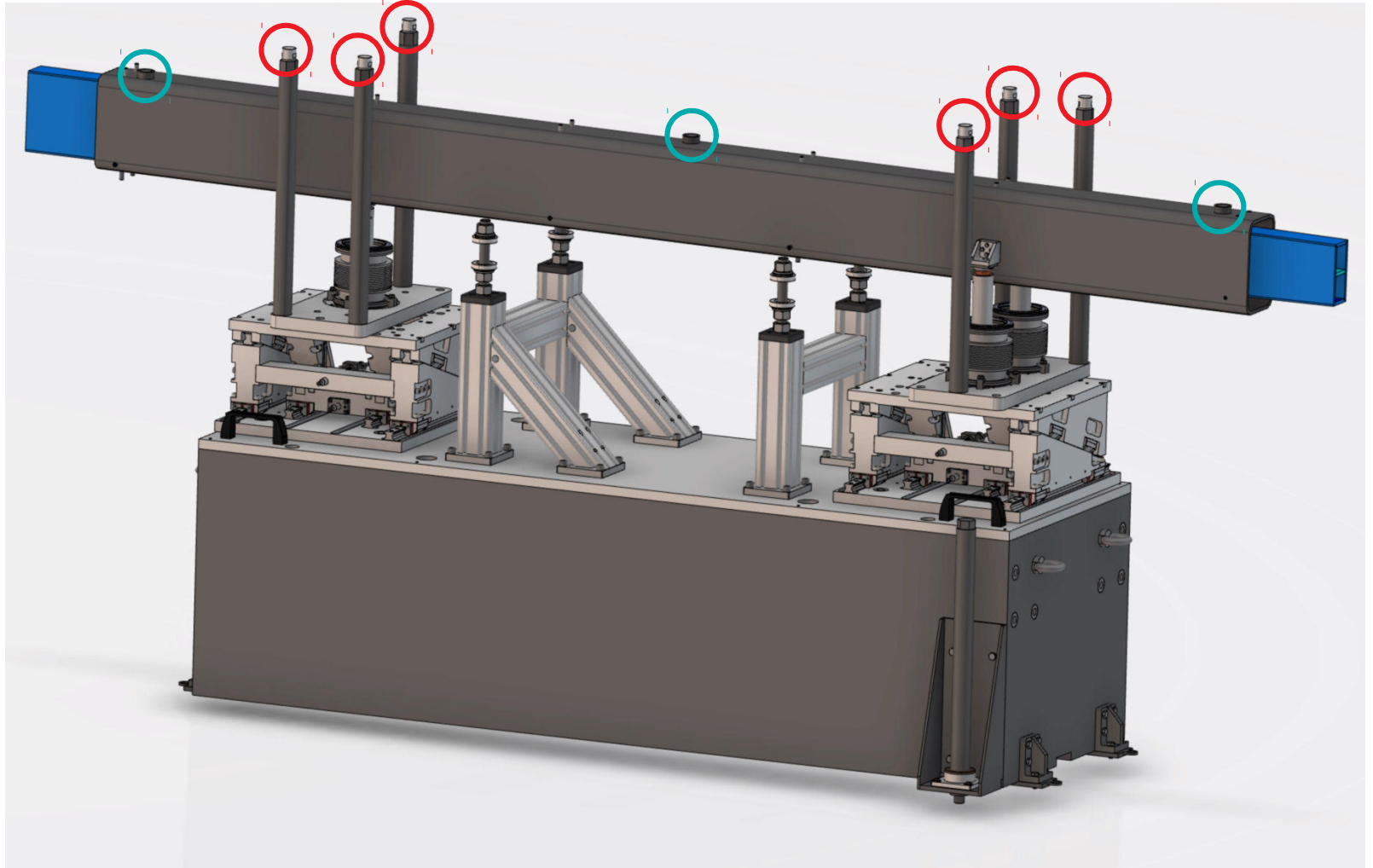
# Estia in-bunker overview



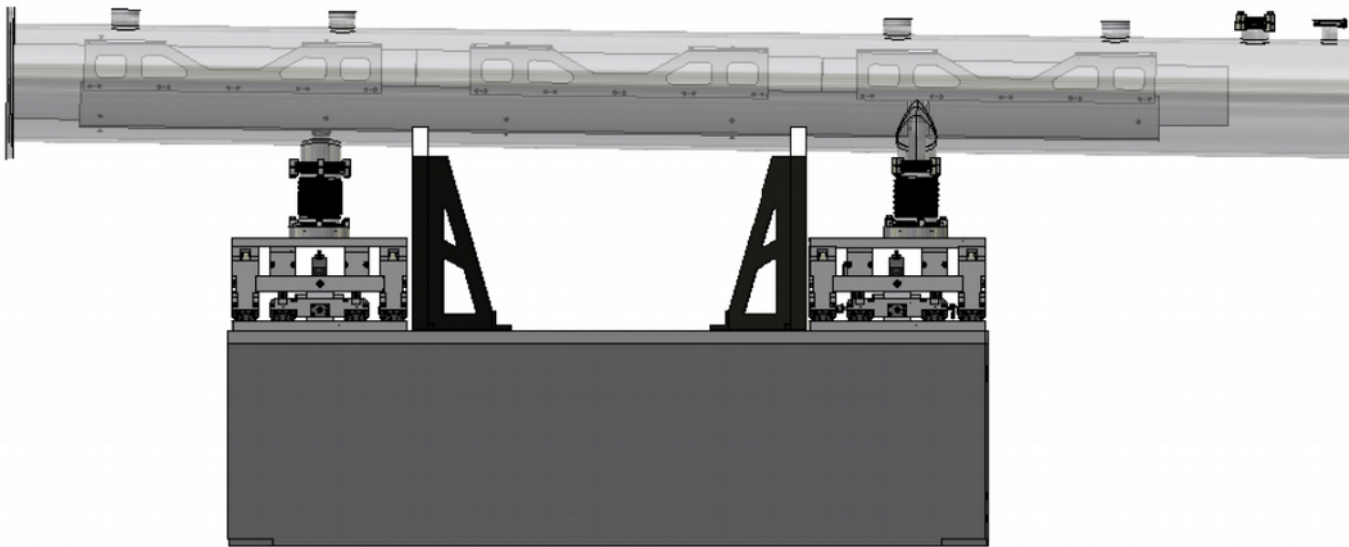


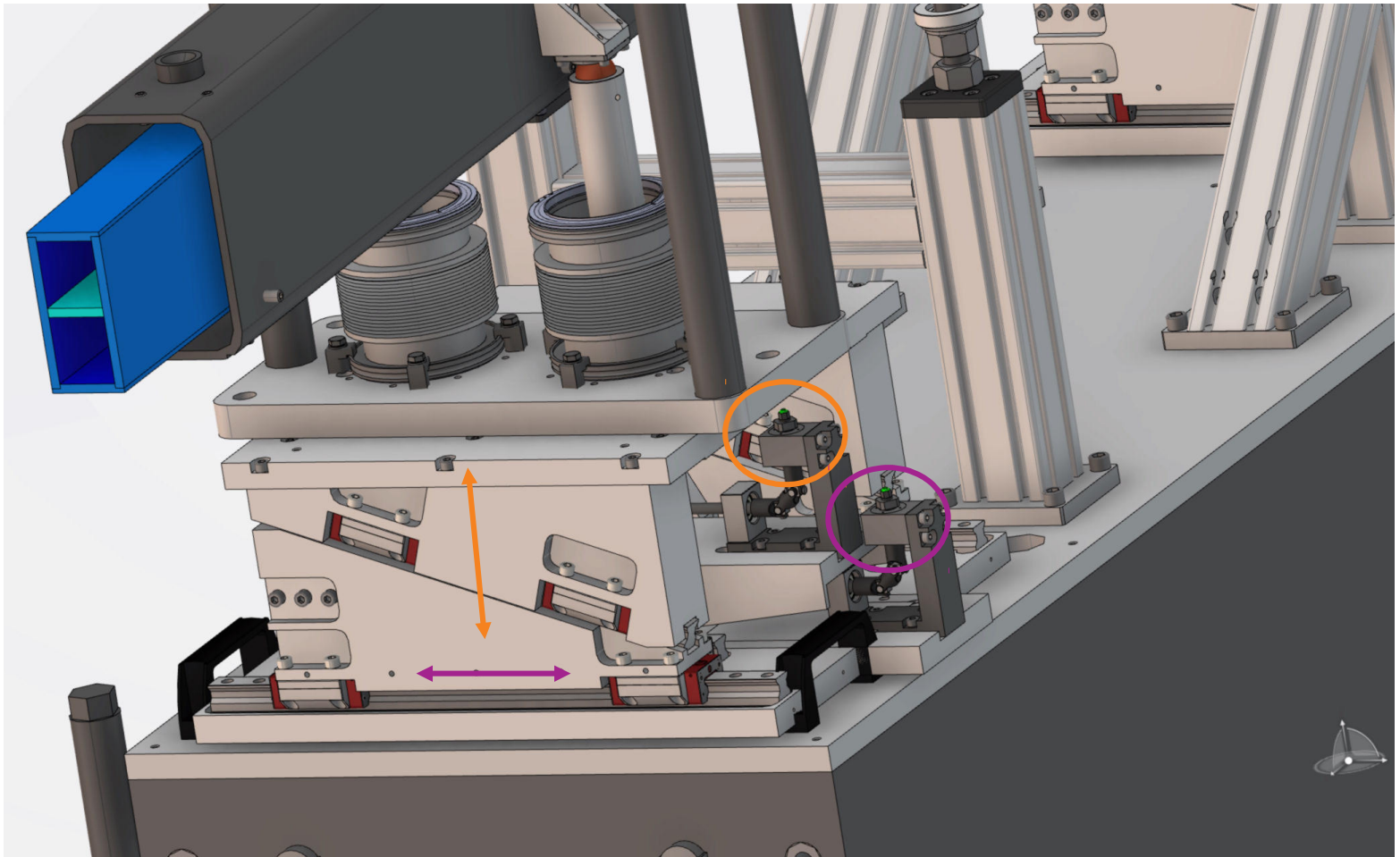




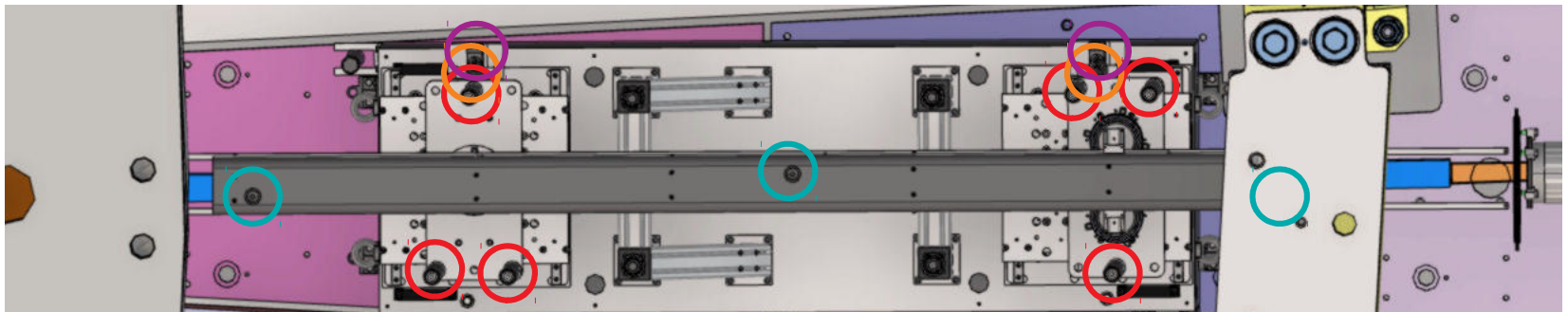
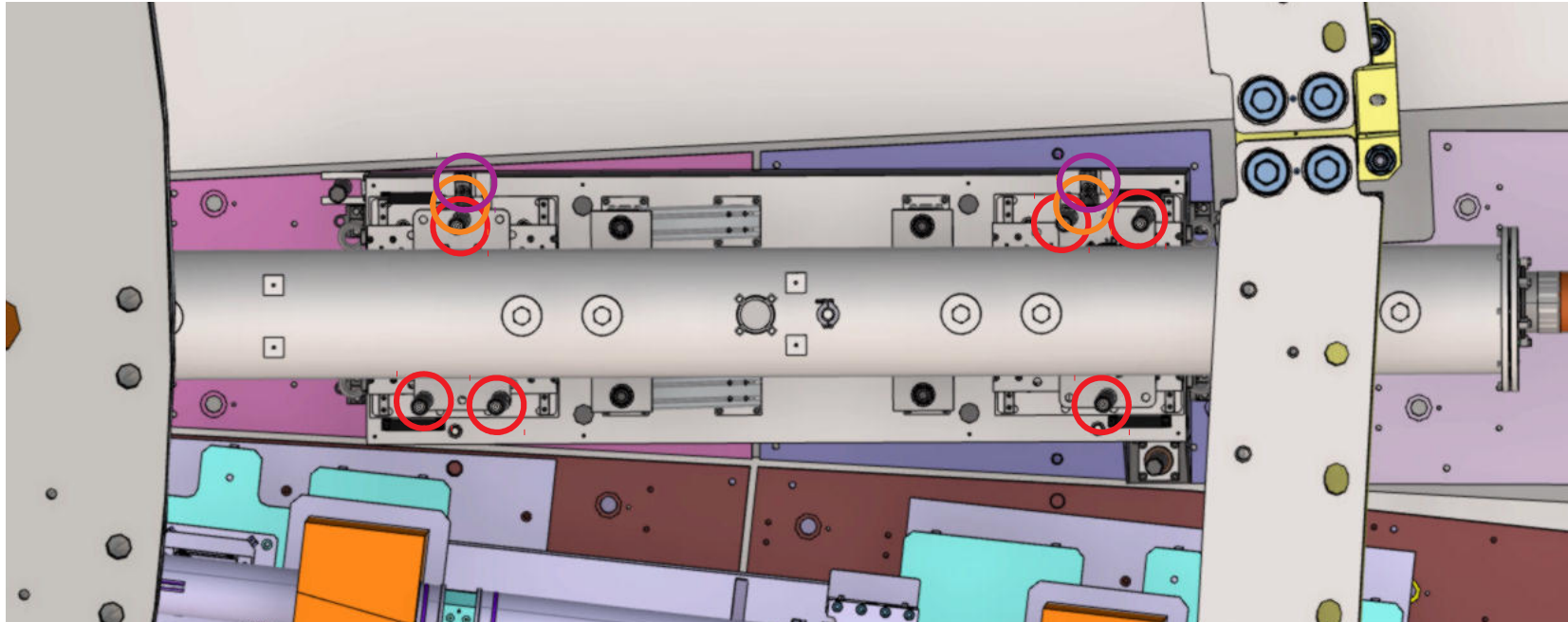


# Feeder Guide Installation





# Feeder Guide Adjustment (RH II)



## Chopper & VS

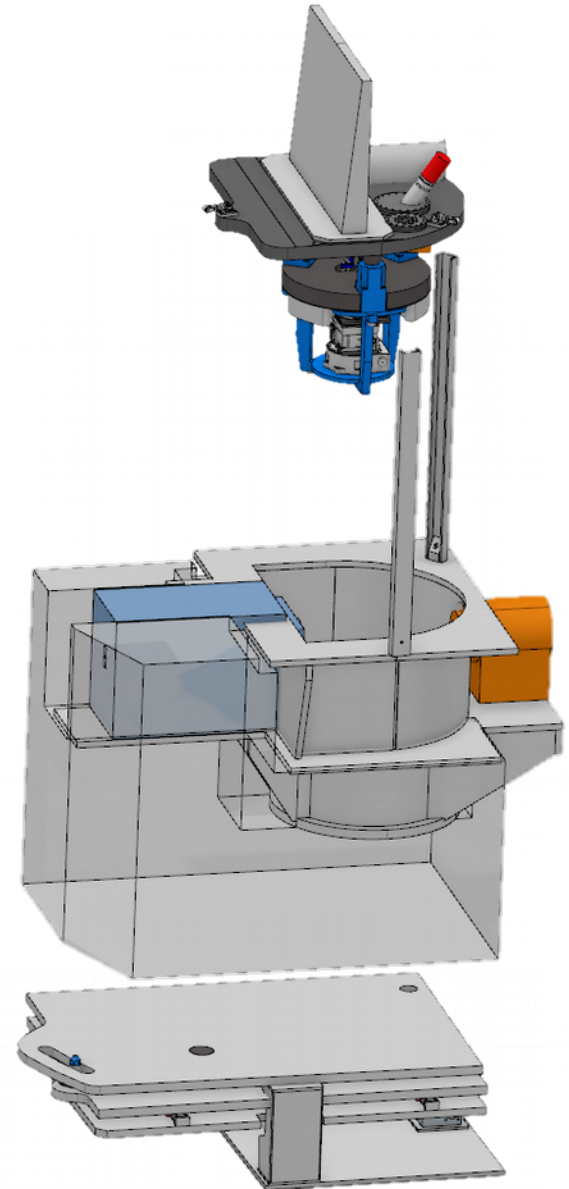
- Full RH

## Cage

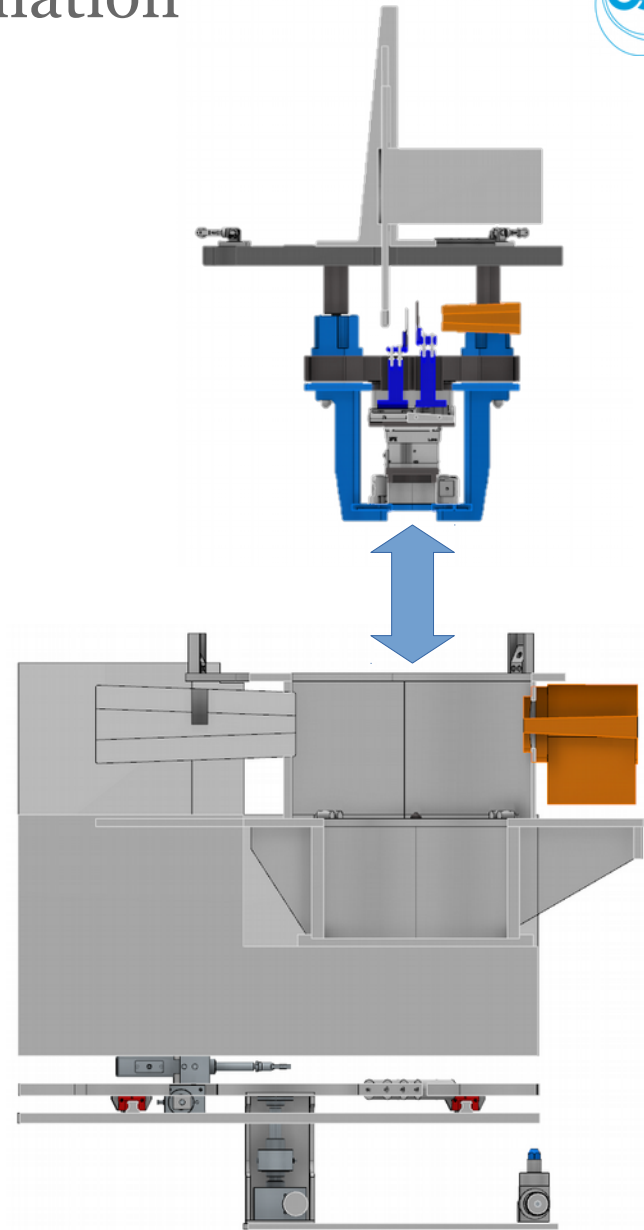
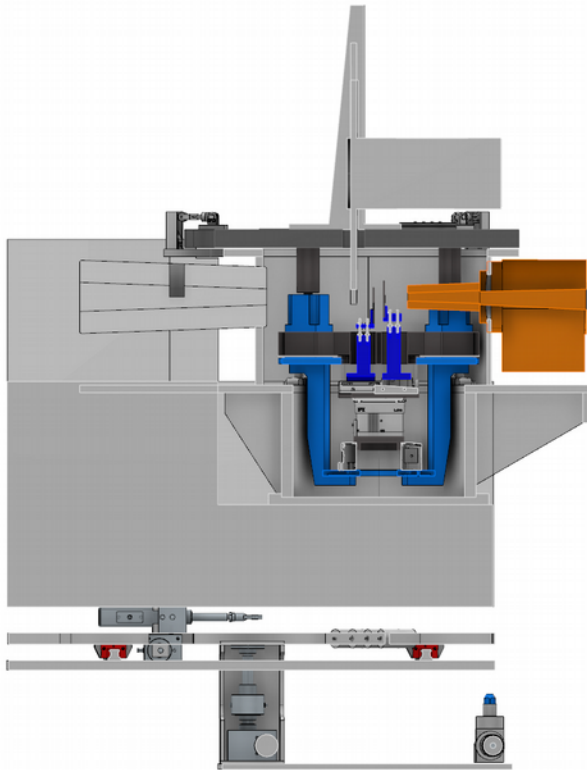
- Limited RH

## Alignment System

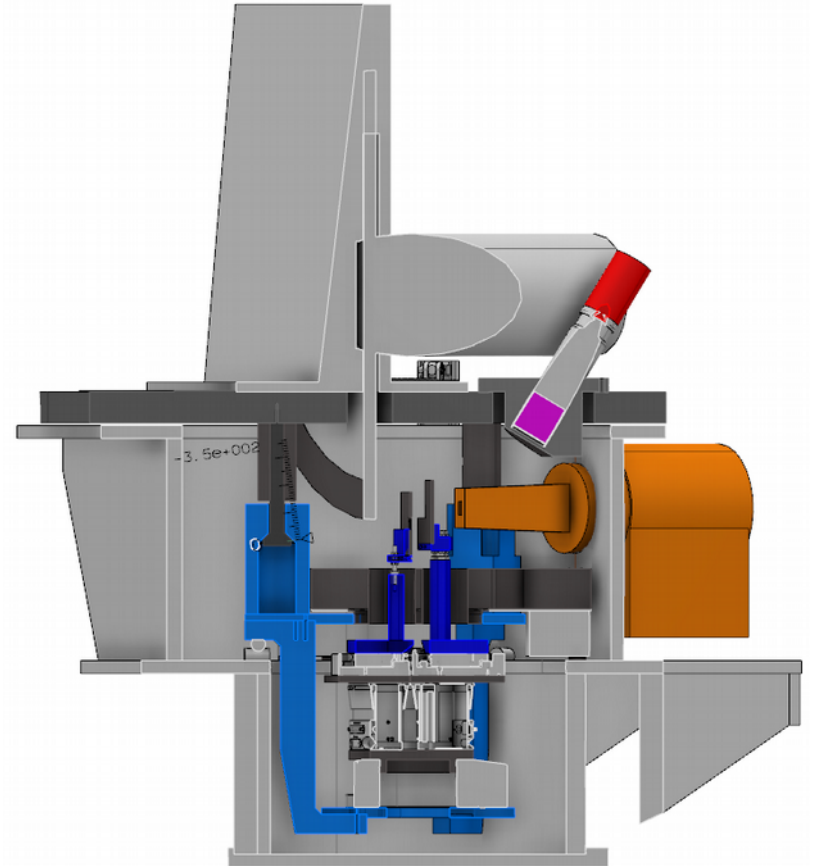
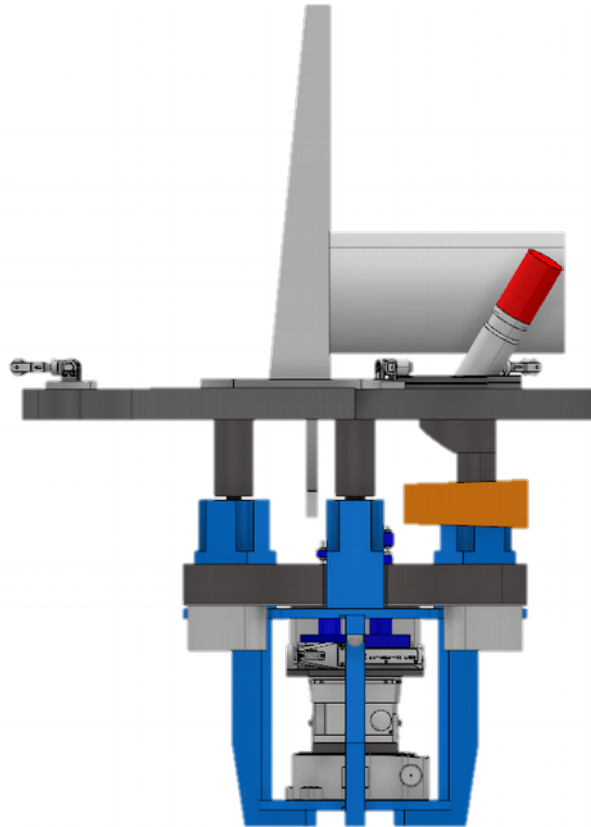
- Limited RH



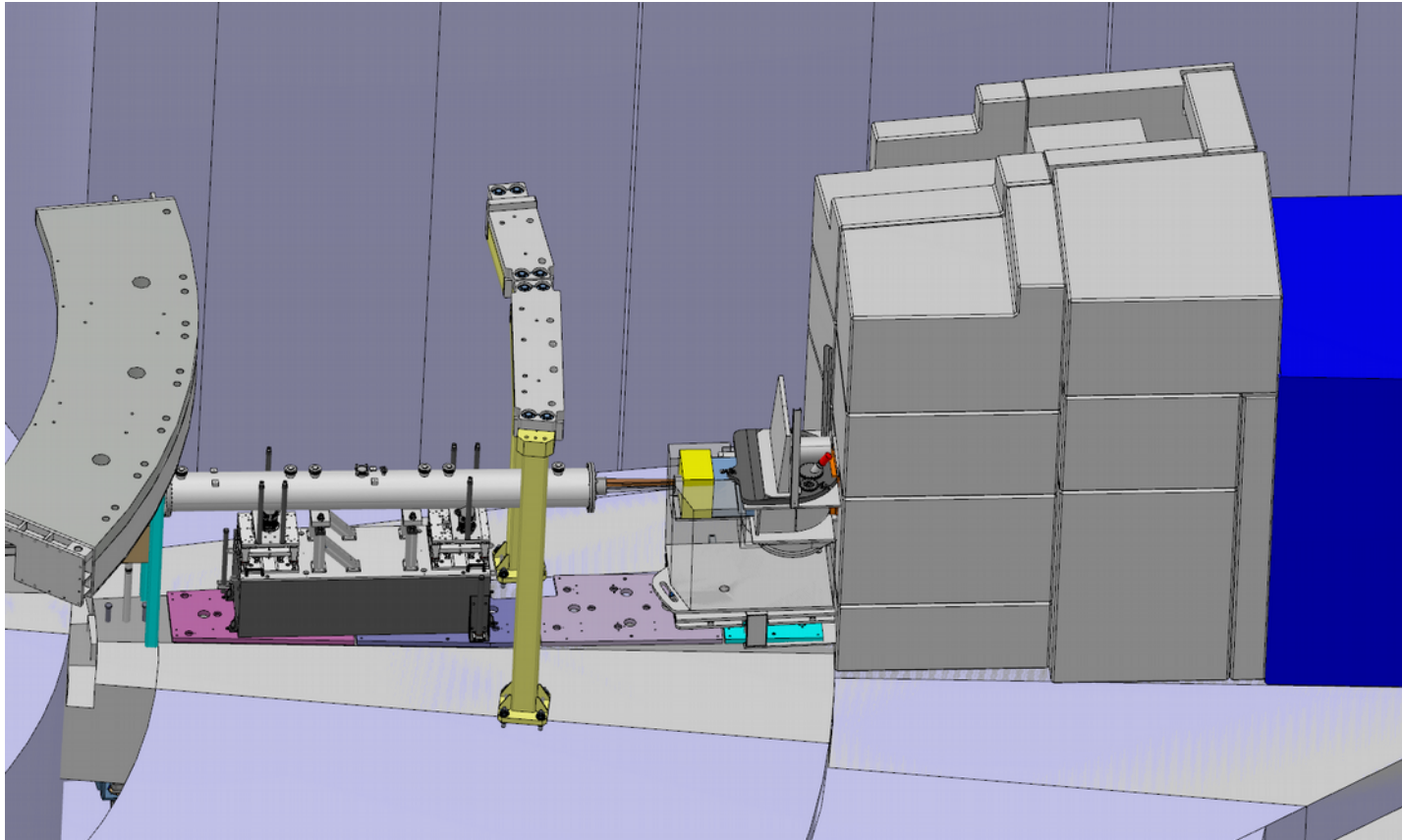
# Chopper and VS Installation – Full RH



# VS Positioning

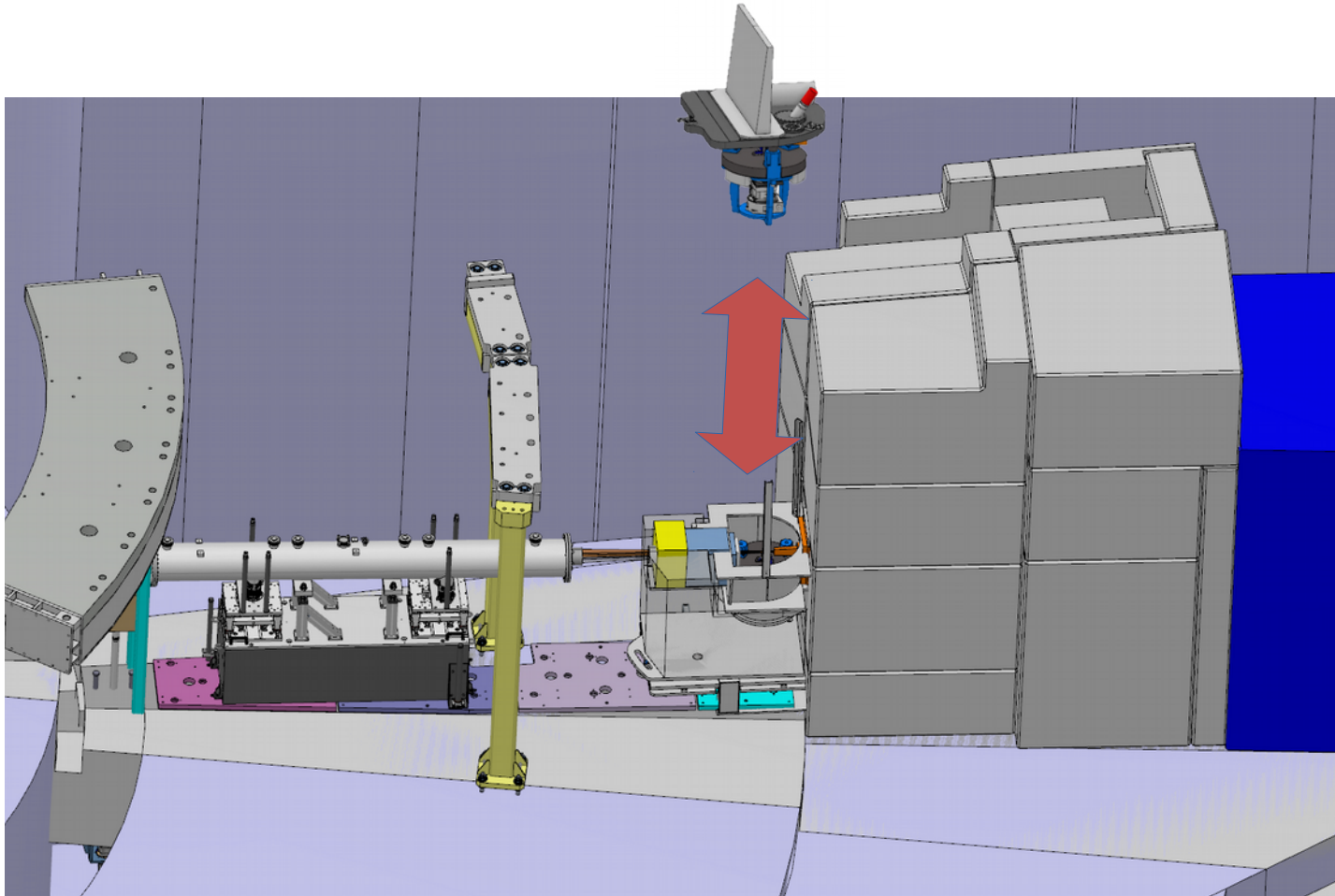


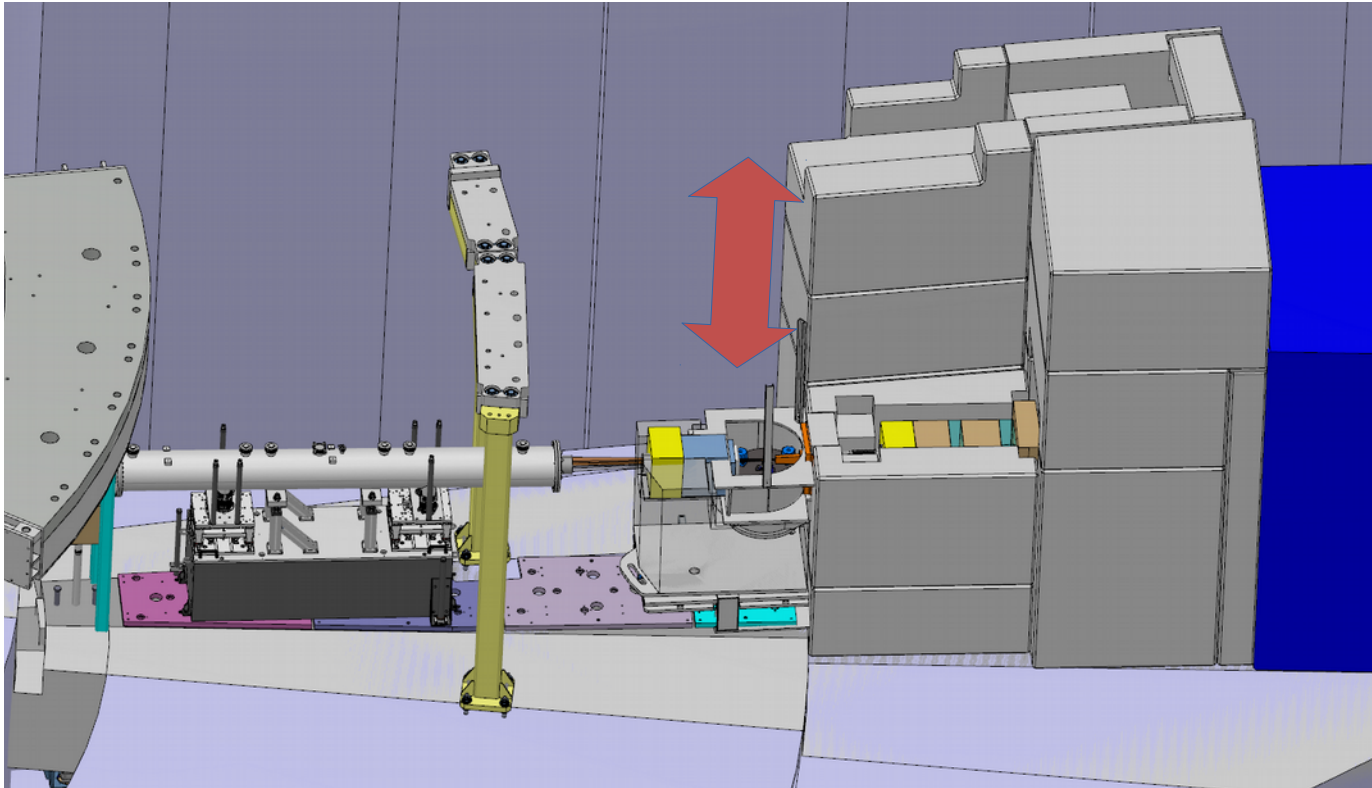
# Chopper Pit – Remote Handling



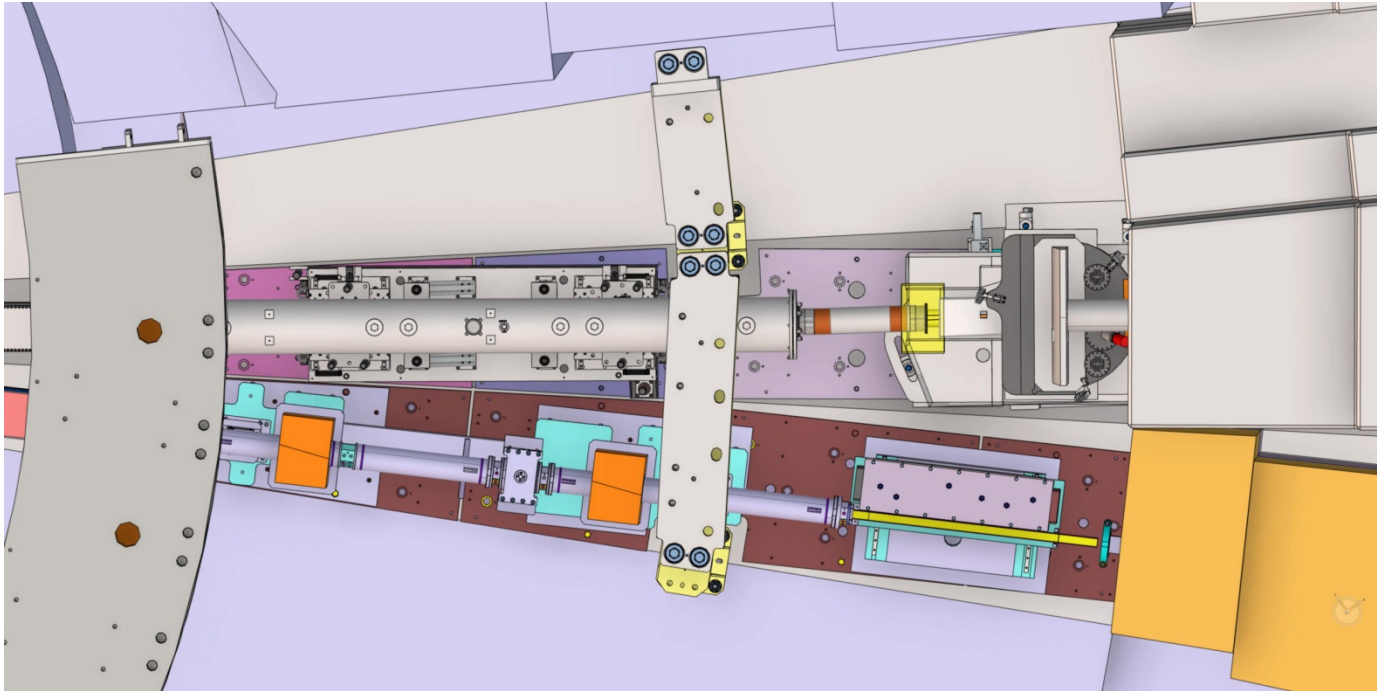


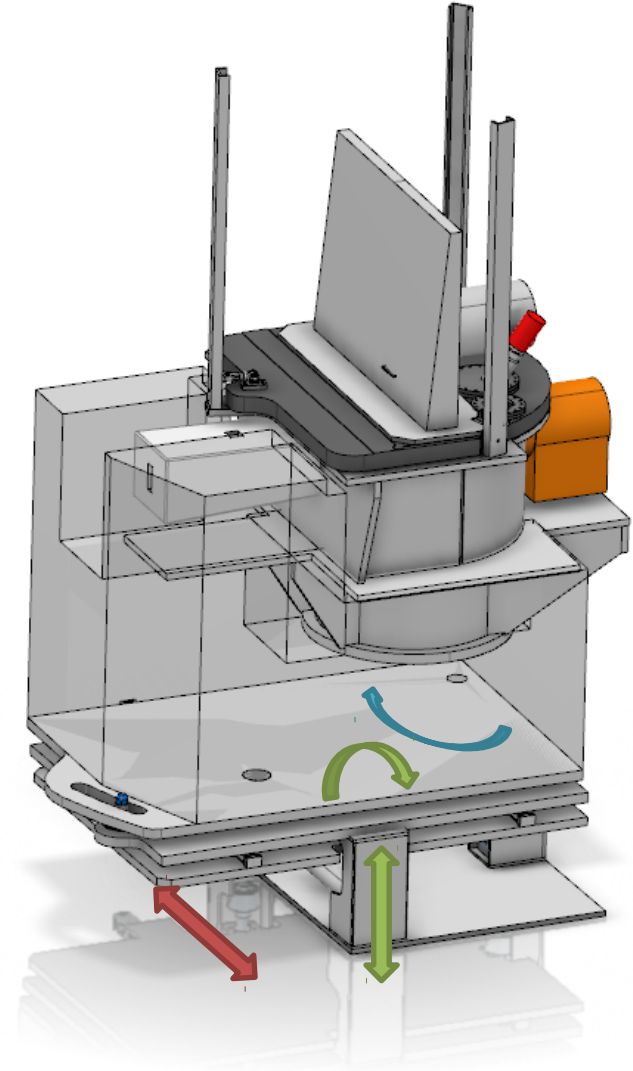
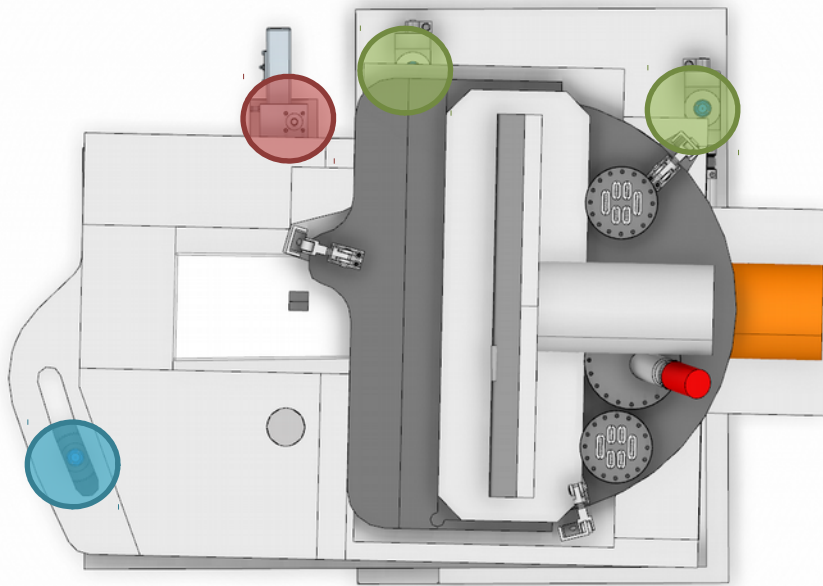
# Chopper & VS – Full RH



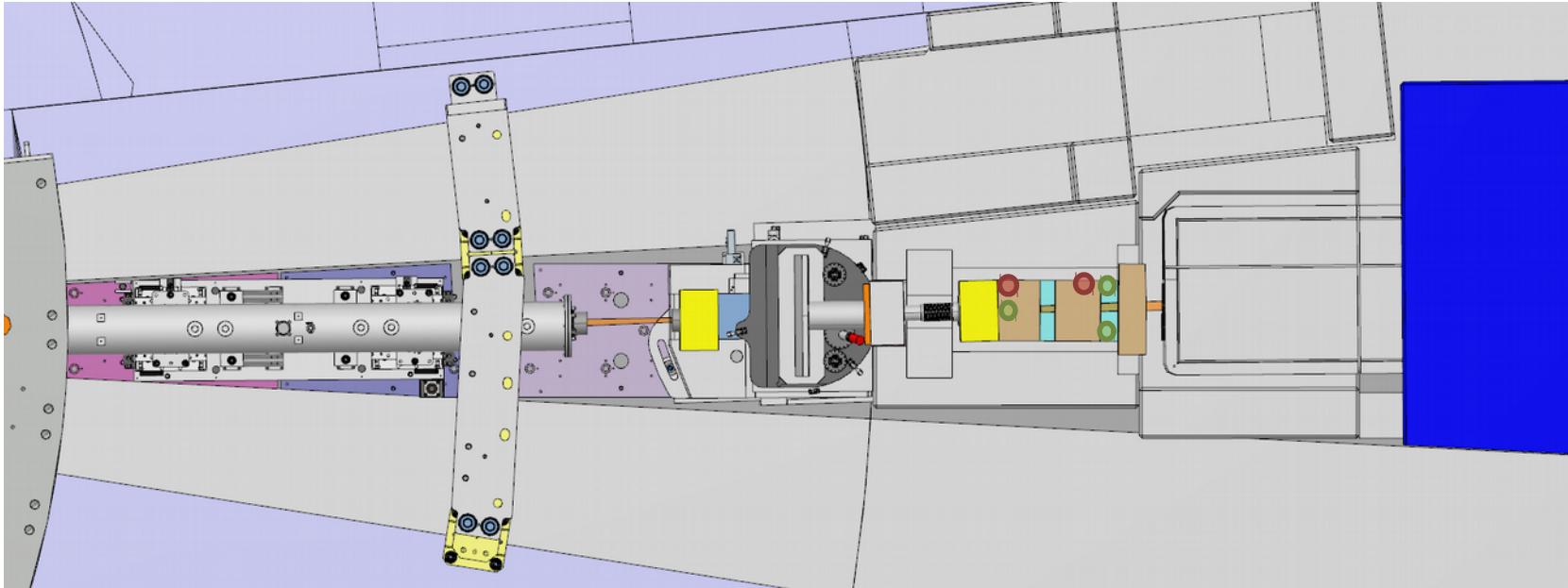


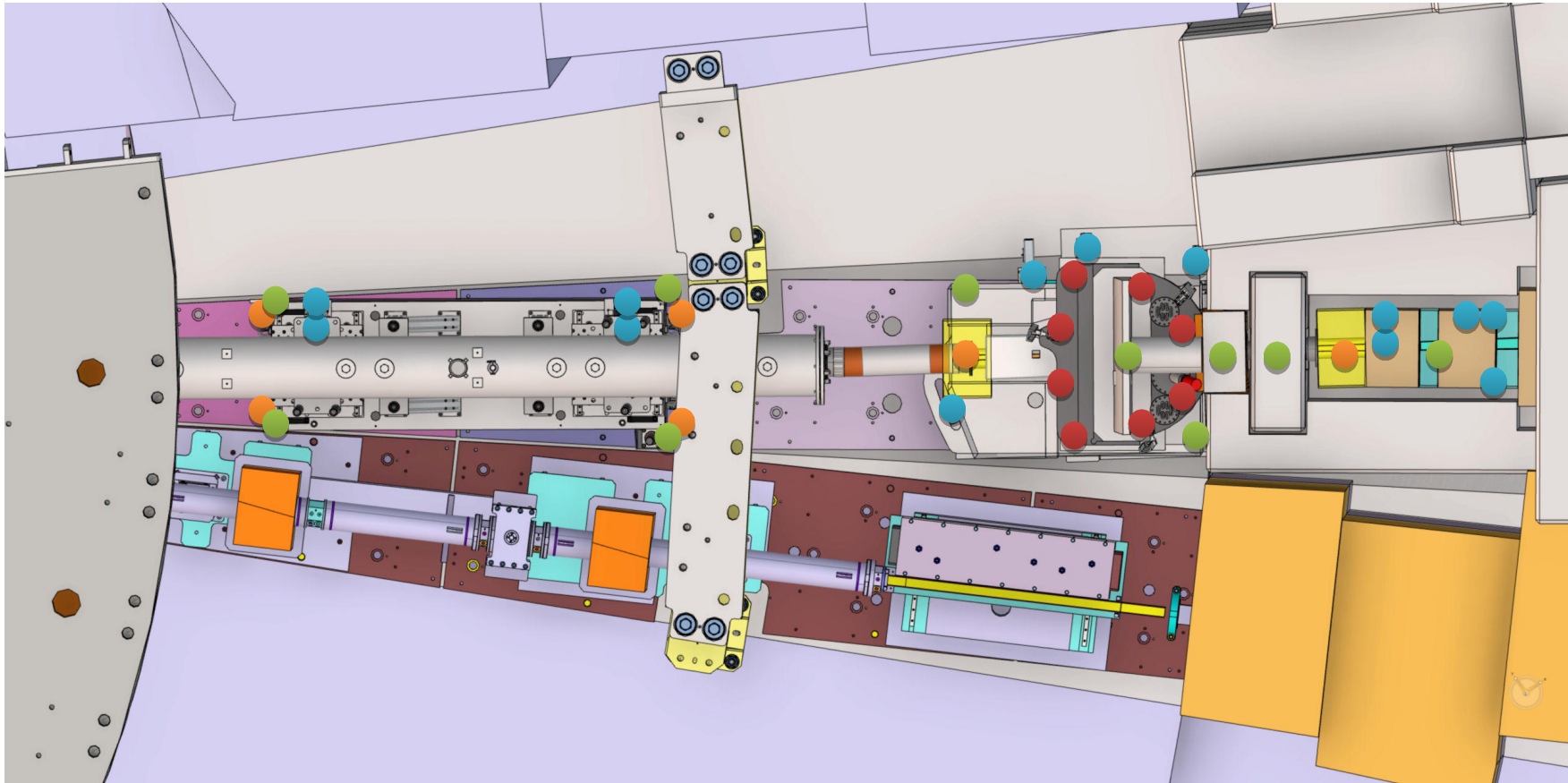
# Chopper Pit Adjustment





# Bunker Wall Feedthrough Upstream – Limited RH





- Full RH
- Limited RH
- Alignment
- Lifting Points

# Ἑστία E st i a

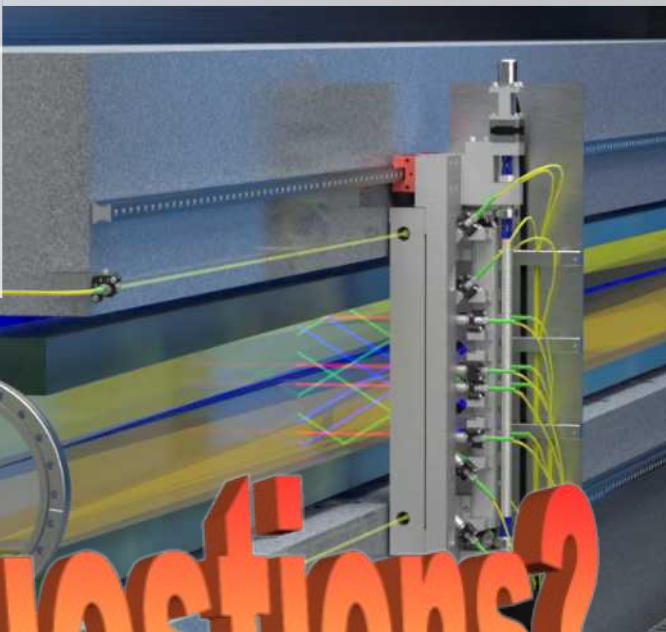
Ἑστία/Hestia:

- Greek goddess of the hearth (Latin "focus")
- Firstborn of the Olympian gods
- 1<sup>st</sup> ESS reflectometer

Thanks to everybody involved making this progress possible



Estia



# Questions?



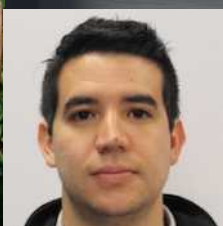
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