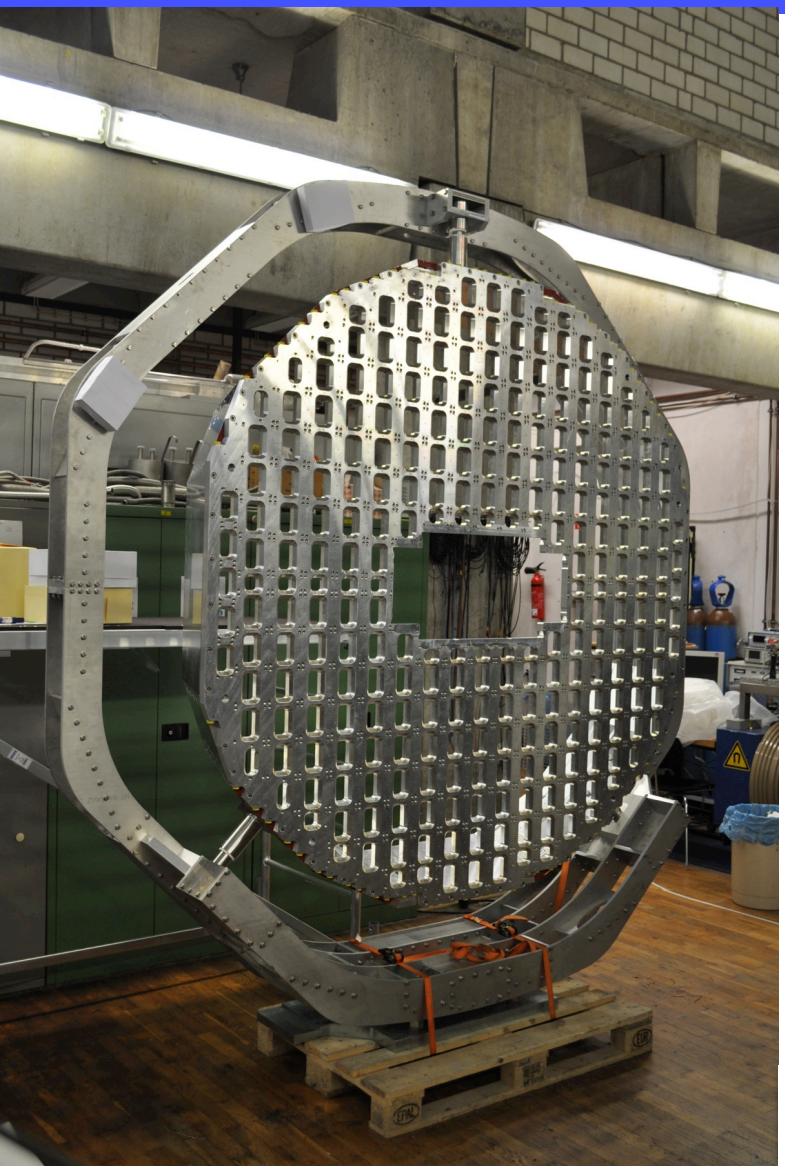
Installation of the Forward Endcap EMC



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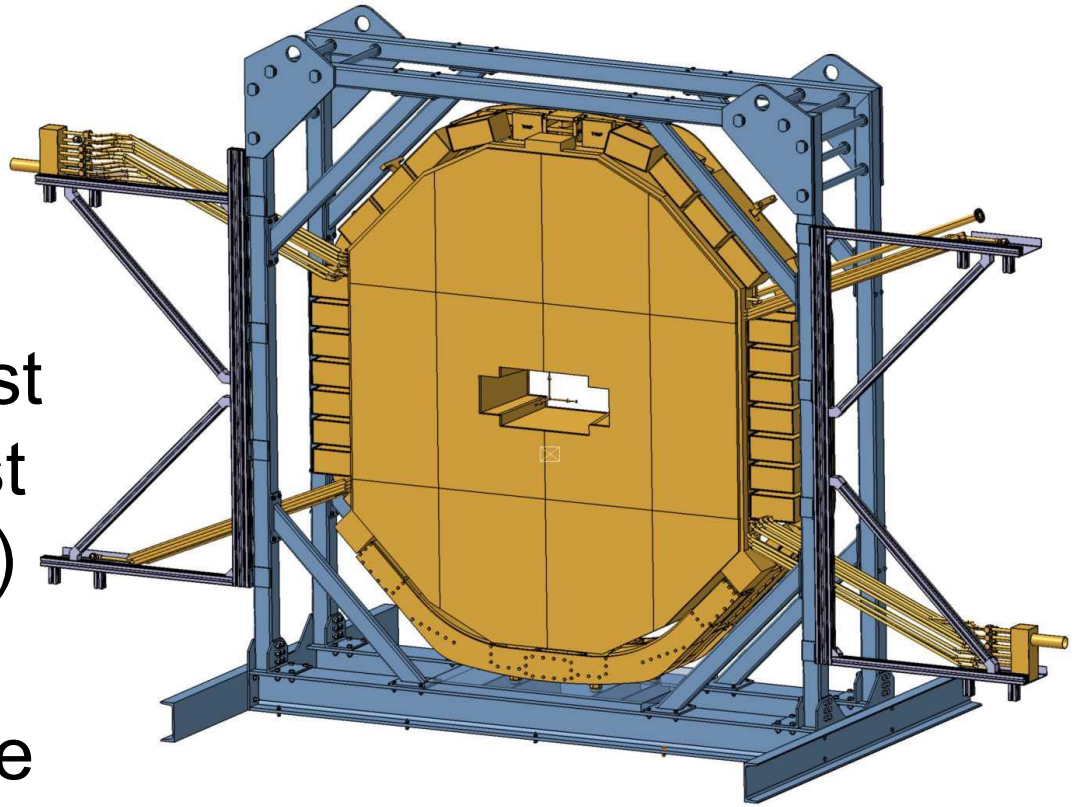
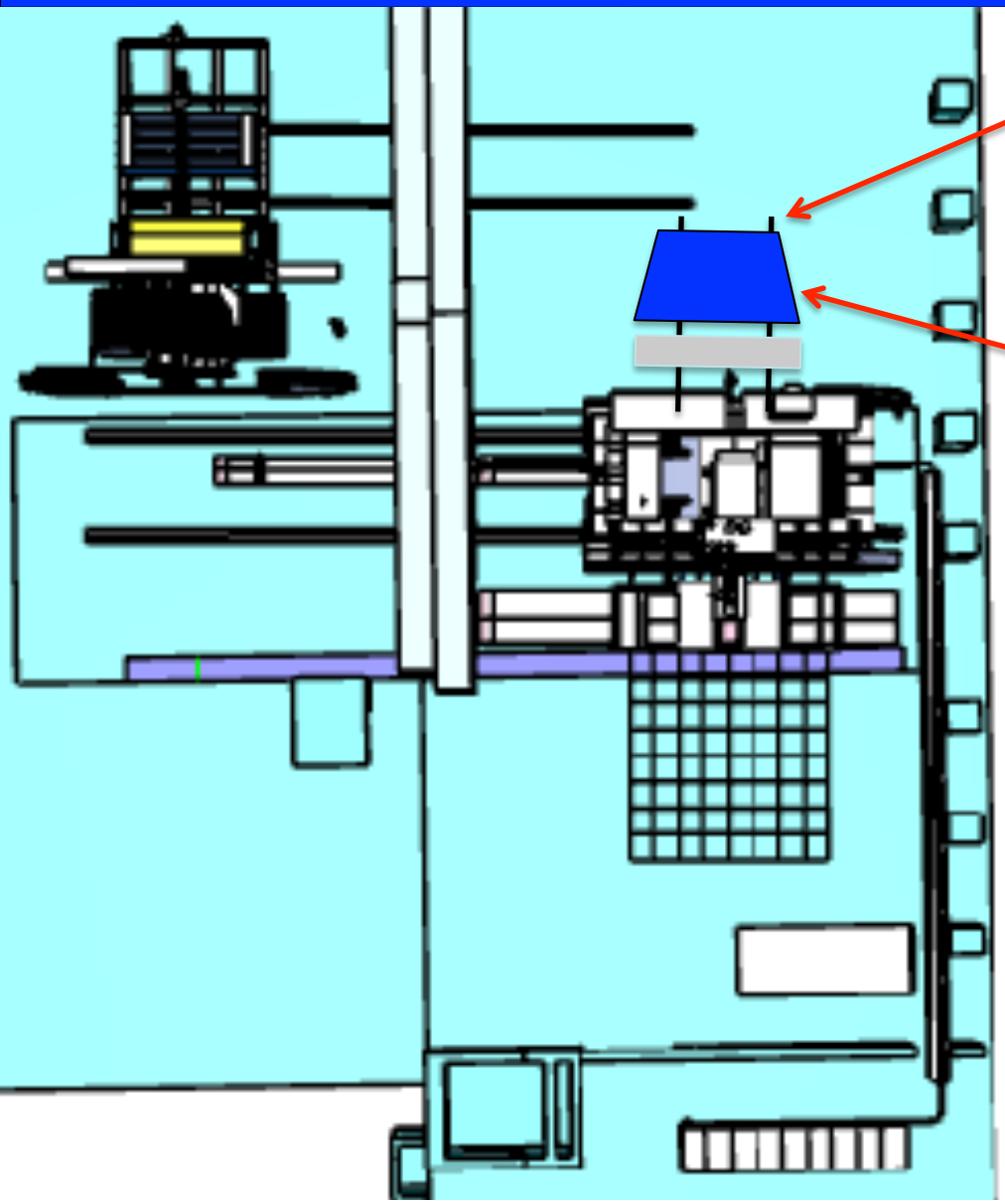
Installation Procedure

- Assembly and beam test at FZJ (PANDA preassembly)
- Transport to FAIR
- Need lab space at GSI to setup and test all channels: At least 6x8 m^2 (+large door) for 3 months
- Forward endcap size with support structure about 5.8x2.4x3.4 m^3



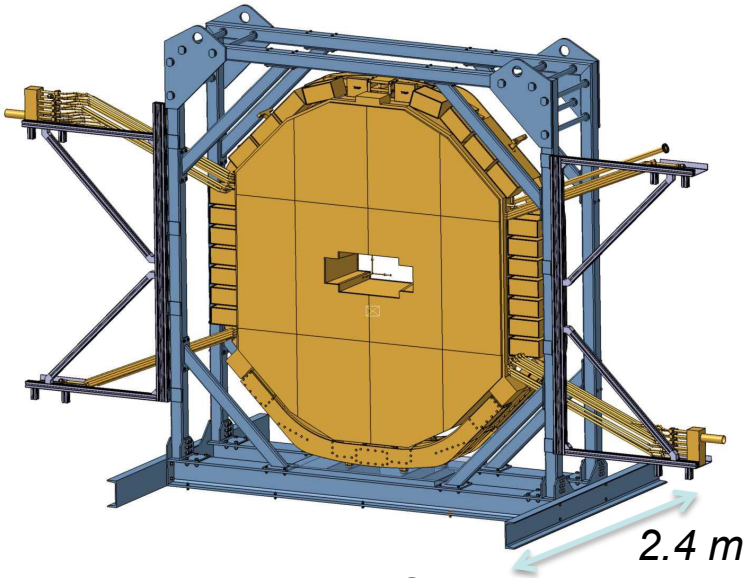
Rails for Support Structure

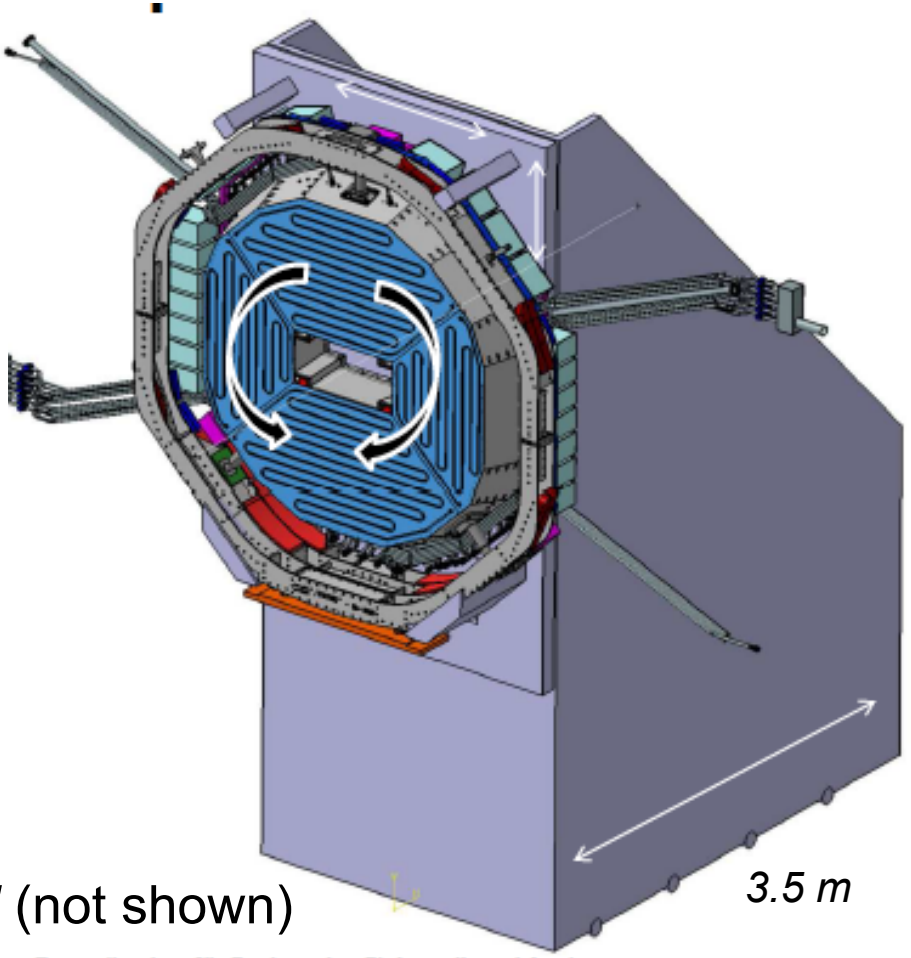


- Rails for precise mounting of forward endcap EMC
- 6.8 m length possible without crossing forward spectrometer rails
- Support structure to move endcap EMC into solenoid needs space
- Question: Space requirement, overlap with forward spectrometer (3.6 m when in parking pos.)

Connect Detector to Mounting Support

Requirements
- Space in hall
- Crane





Forward endcap EMC with
- Insulation cover & ADCs
- Cooling lines
- Cables & fibres *up to patch panel* (not shown)

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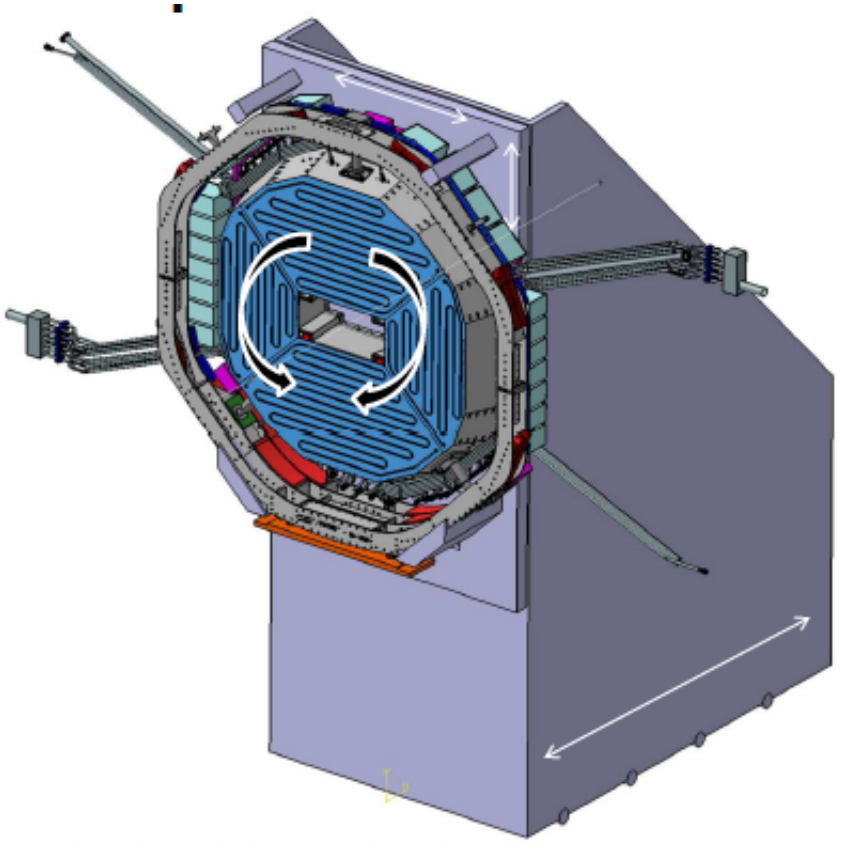
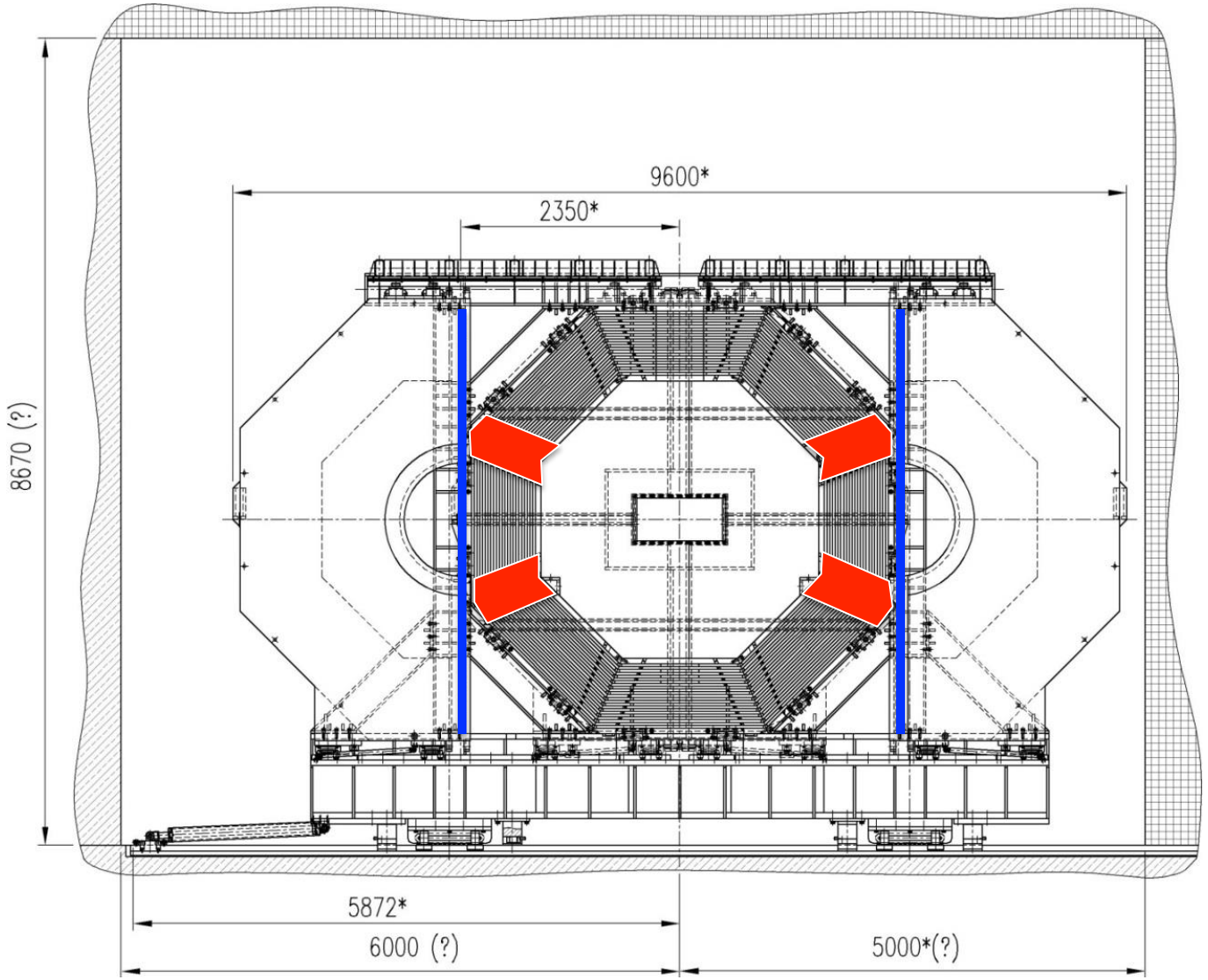
Move Detector into Magnet

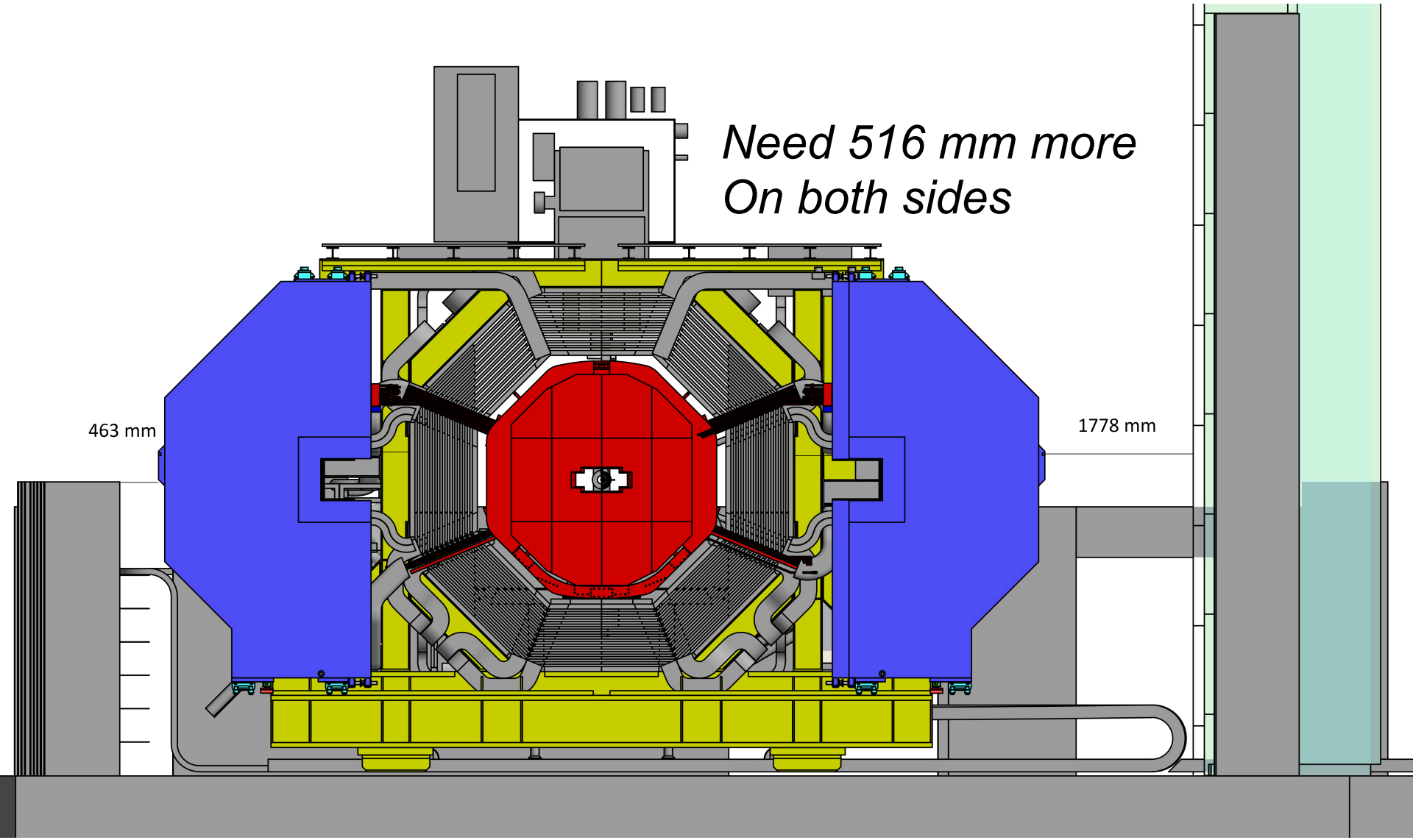
- Cables connected
  - They pass the insulation
  - Cooling lines up to mixing boxes next to detector
- Problem
  - Doors are in the way!



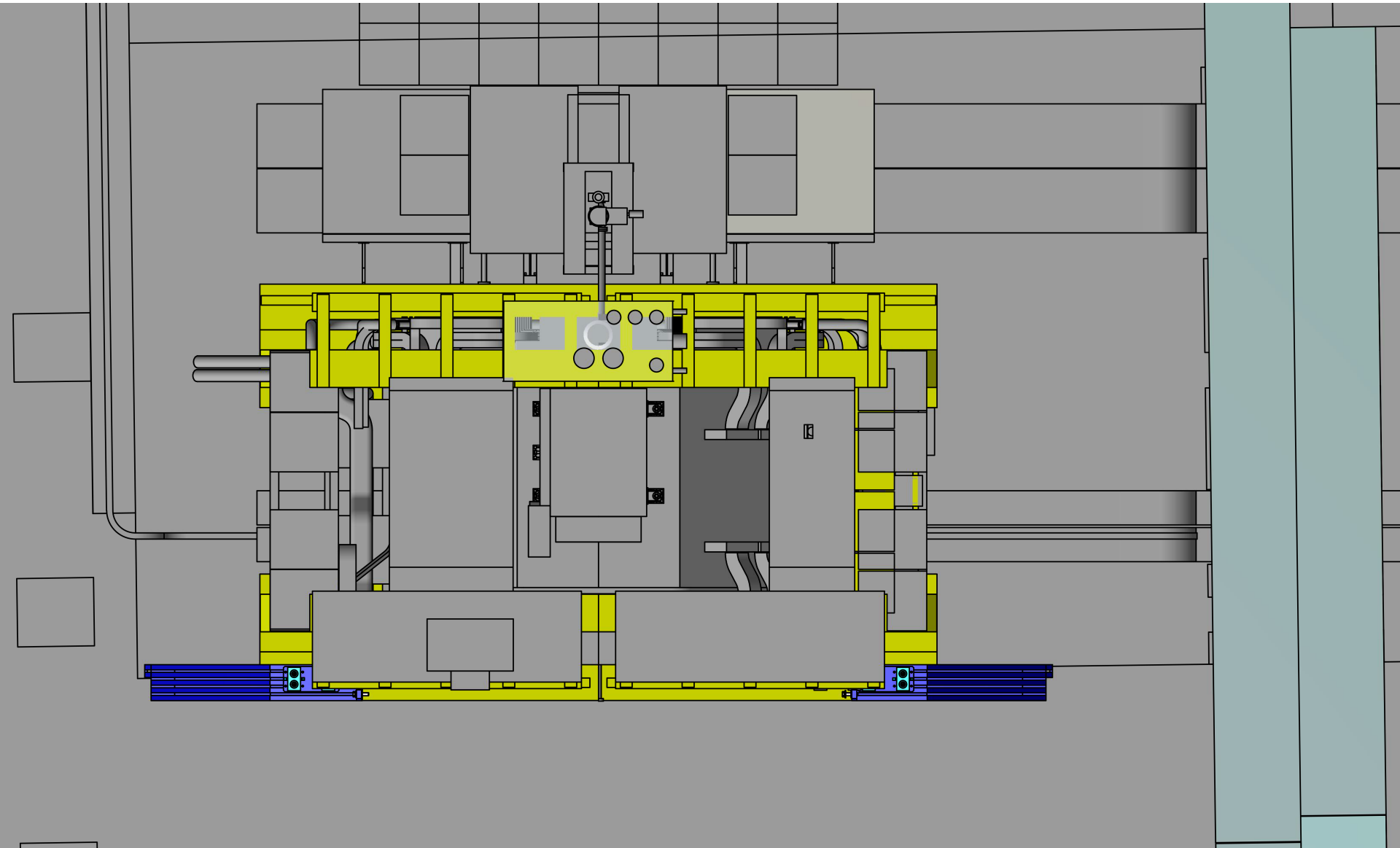
Doors open: *no Space for Cables etc.*



Larger Opening of Magnet Doors



Doors



To be discussed

- Rails on floor for mounting forward endcap EMC and DISC DIRC
- Larger opening of doors to facilitate mounting of EMC