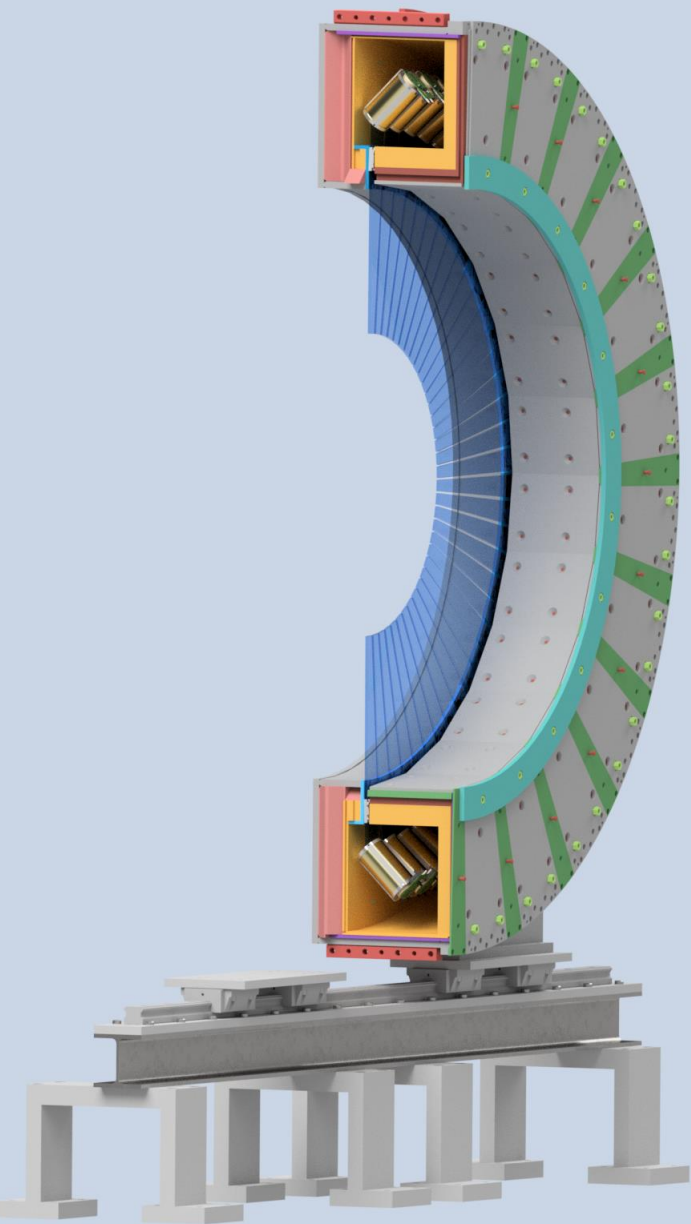
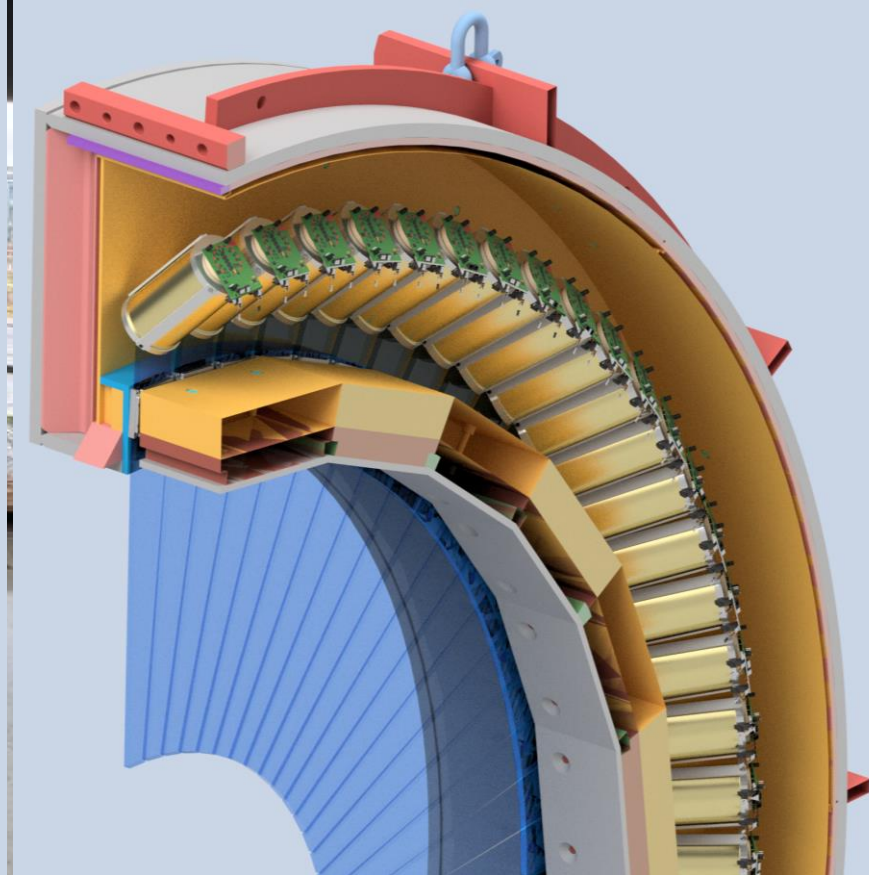


# Mainz status and timeline

- Cherenkov detector
- Hydrogen target
- Accelerator
- Superconducting solenoid



08.04.2026



P2 - P2 / Basket review meeting

## Cherenkov Detector

- Support structure and housing delivered on 24. February
- Received offer from Alanod for wrapping material (3.5t)
- Planning of a test stand for finished detector modules started

# Hydrogen target

- Offer from NTG for a design study
  - Target support table
  - Positioning mechanism
- Finalization of the explosion protection concept ongoing
- CFD simulation and Geant4 simulations ongoing
  - See talks by Siddarth and Jayanta

# MESA time plan

- Unchanged since February meeting
- First beam from MESA scheduled for June 2027 (unpolarised, 1 $\mu$ A)
- Subsequently beam for experiments:
  - **MAGIX**: September 2027
  - **P2**: November 2027

# MESA cryo-test

- First test started 12.2.26
- Ended 14.2.26 by break of burst disk on cryo-module 2
  - Trigger: Excessive lHe consumption exceeding liquefiers intake capacity
  - Overpressure caused main compressor shutdown
  - Compressor restarted but turbines already stopped
- Major design error of the helium guard on the cryo-module
  - Pressure relief valve with cracking pressure >1.5barG used (should be >50mbar)
  - Rapture of burst disk at 1.4 bar
- Next cryo-test end of May

# View of the P2 hall



# Superconducting Solenoid

- All cryo-lines connected to the cryostat
  - Disconnected again today
- Instrumentation for cool down connected and implemented in EPICS
- Sigmaphi will finish connection of electrical feedthroughs starting Friday
- Cool down and powering of the magnet end of May



# Magnetic field measurement

- End March: Visit Magnet workshop at CERN
- Measuring machine prepared
- Minor modification to mechanics needed
- Calibration of all sensors needed (Shruti will support them)
- September/October 2026: Installation of the frame in P2 hall
- October/November 2026: Preparations and Measurement of magnetic field

