# The great opening of 2024

Duration: mid-August to end of October

#### Content

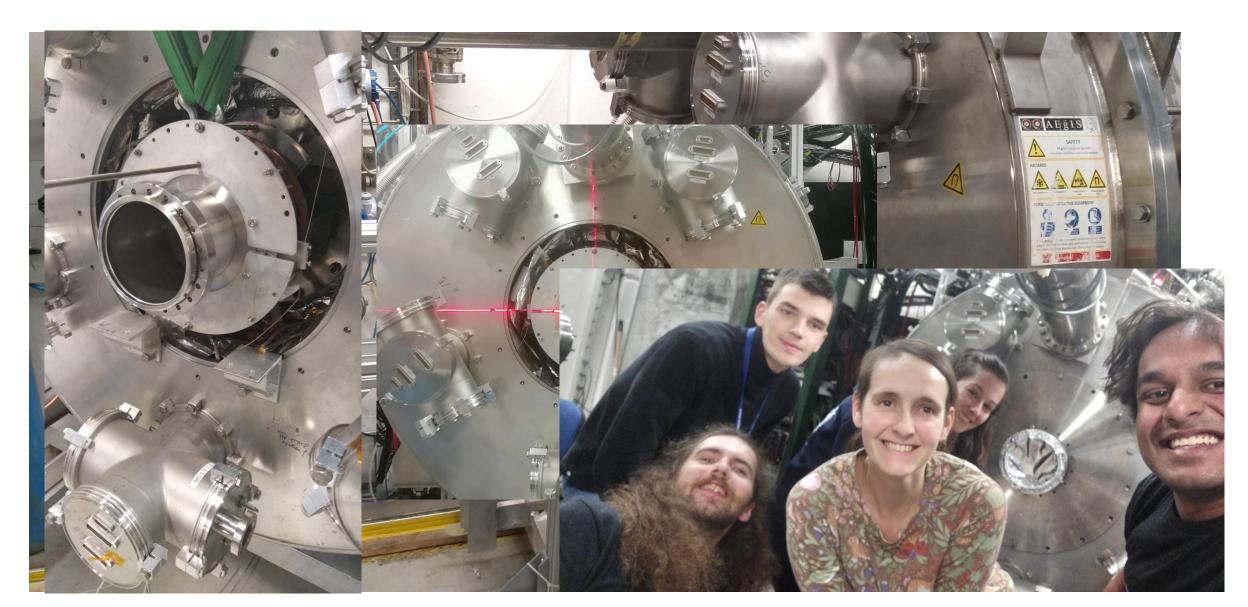
1T bellows installation

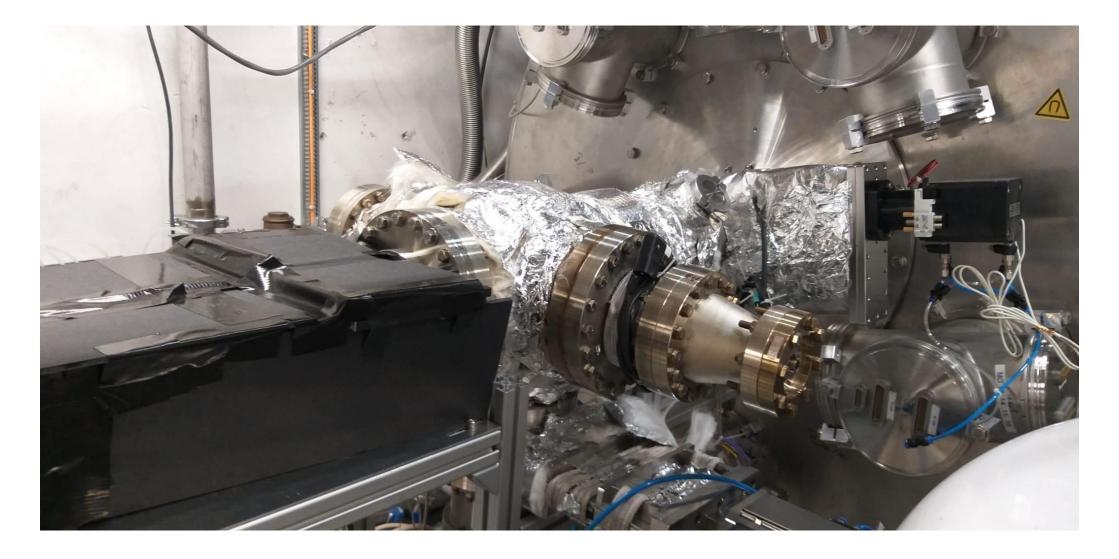
Hedgehog detector system installation

New 1T MCP installation

- Bellows to facilitate Hbar extraction beamline
- Cost: ~20K
- 2 major pieces: bellows assembly and a new OVC closing flange
- Production finalized in August

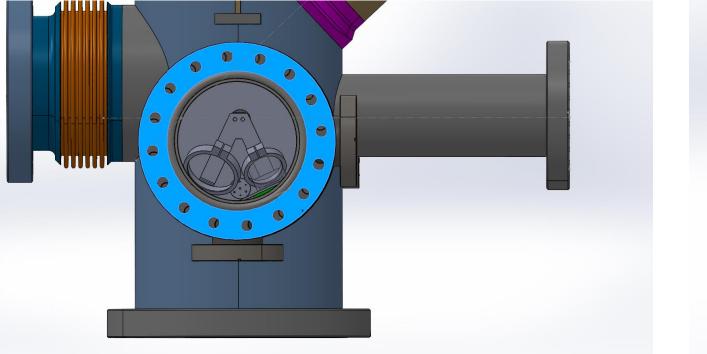


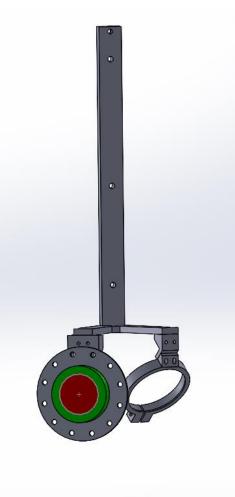




- Installation process was very smooth
- Complete success from the mechanical point of view
- Vacuum level measured at GV12: 1x10^-9
- Opening of 150mm @ the 1T side without a heat shield created a large heat leak- estimated 8 Watt of (radiative) heat energy, translating to consumption of 4 extra dewars of LHe per week
- Precise damage assessment and design of a heat shield ongoing with the help of CERN cryogenic dept (More on Thursday's talk)

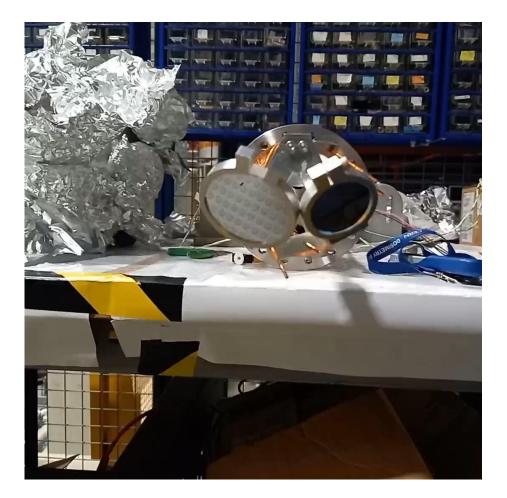
#### Hedgehog detector assembly





#### Hedgehog detector assembly





## Hedgehog detector assembly

- The MCP mirror shattered after baking (not enough spring effect?) and will have to be replaced
- The MCP did not work properly, the cabling has to be investigated
- We loose 10% of the beam...
- The project has to be redesigned (More on Thursday's talk)

