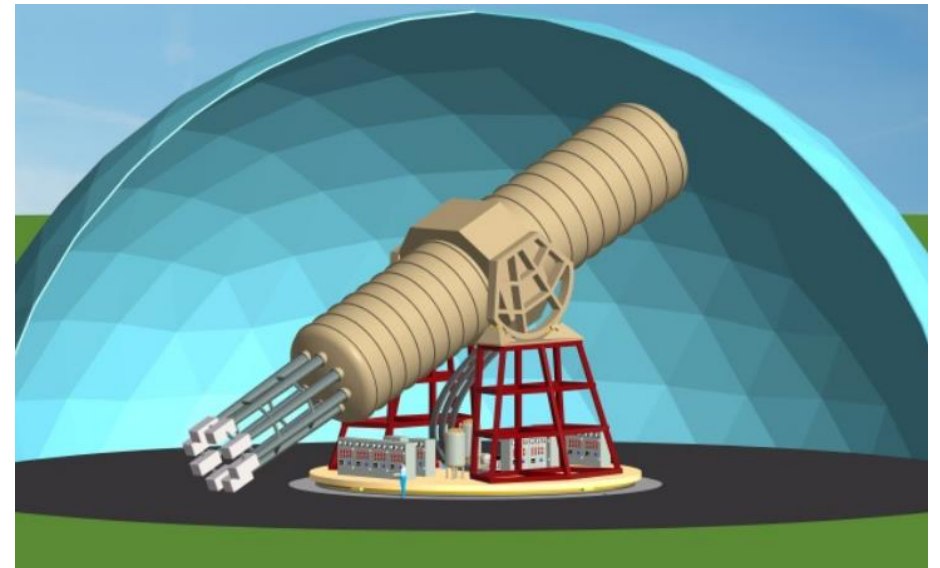
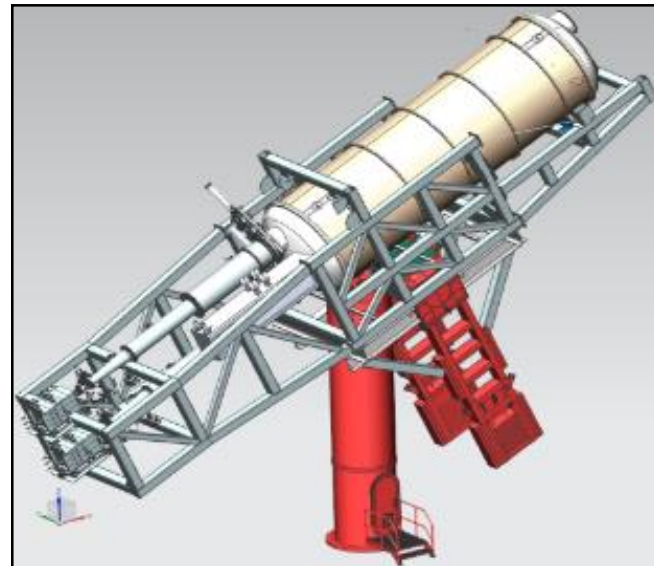


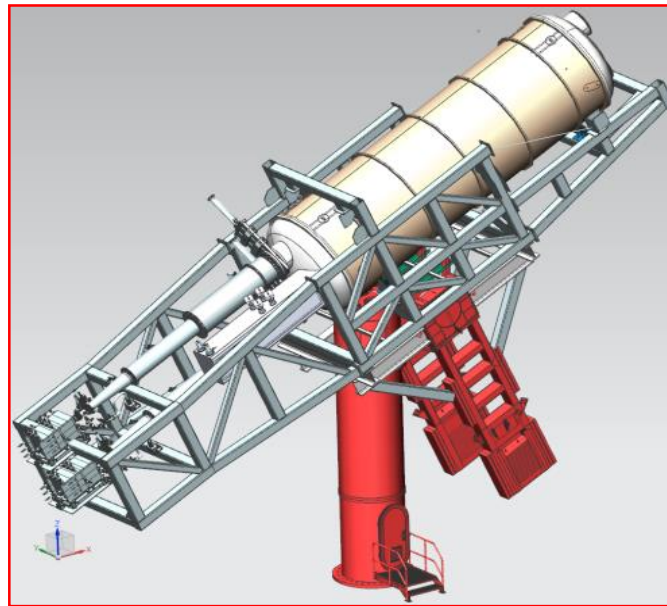
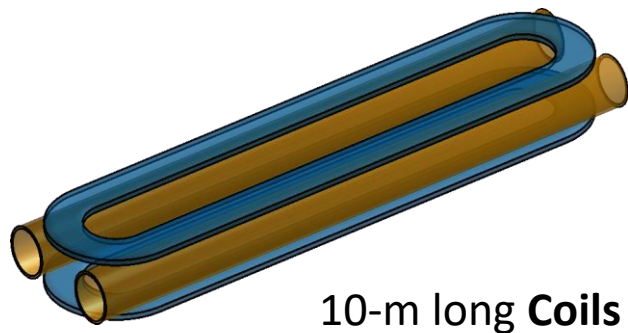
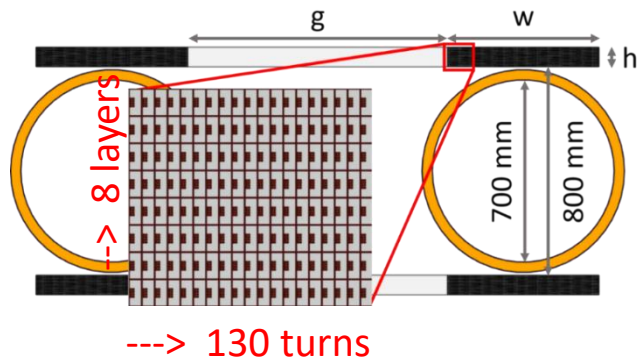
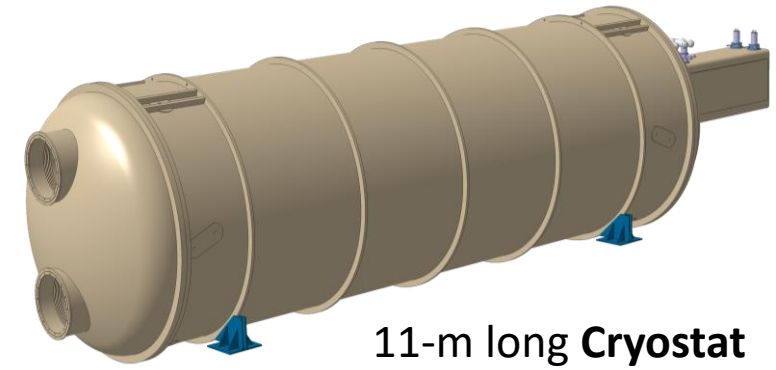
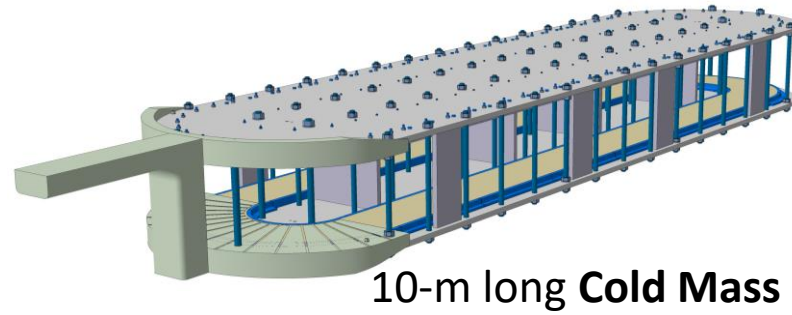
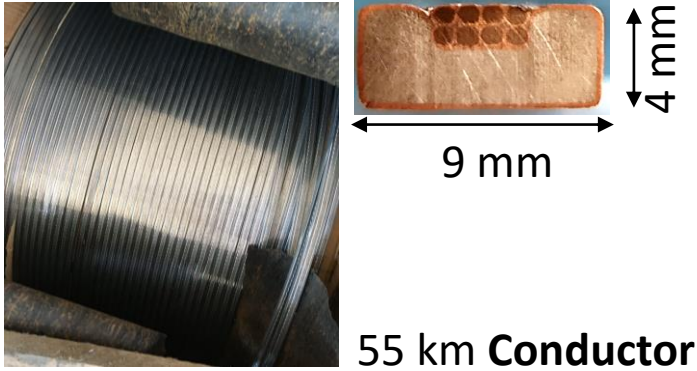
# ***BabyIAXO Magnet Status***



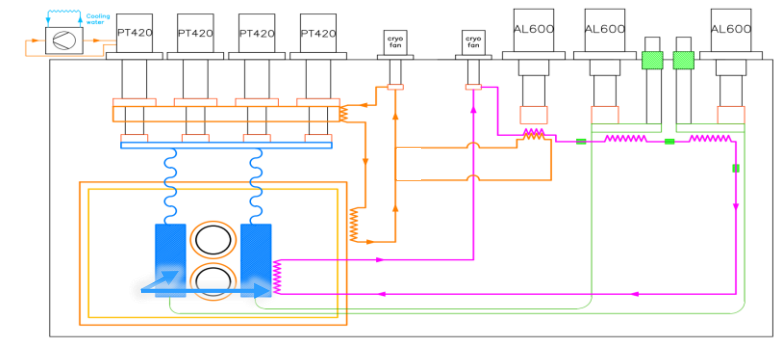
***Herman ten Kate***



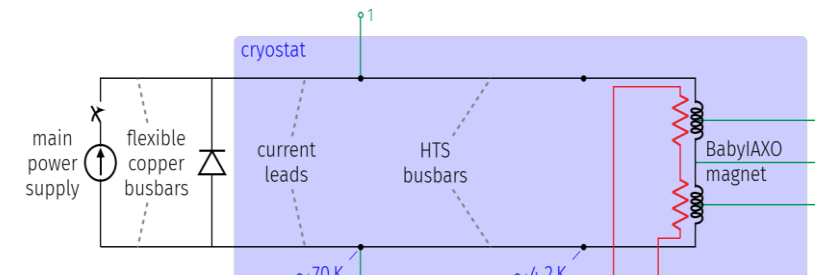
# BABYIAXO MAGNET – TENDERING DESIGN COMPLETED



**BabyIAXO on drive system installed at DESY**



Conduction cooled with 7 Cryocoolers



Direct-drive Electrical circuit

# 1. FROM BABYIAXO TO IAXO – HISTORY AND STATUS

- 2011 initiative, building a team, start design of IAXO, magnet team at CERN
- 2016 TDR IAXO incl. demo coil, - optics and – detector.
- **Then decision to combine the demonstrators and make a fully functional BabyIAXO (10 m with 2 bores in stead of 20 m with 8 bores)**
- **2018 PBC support, 1 fellow to create technical tendering design of BabyIAXO**
- 2020 Tender Design, start of procurement, budget prices from industry
- 2020 Design adjusted to allow use of 2<sup>nd</sup> hand conductor, offered in-kind
- 2021 Conductor available medio June; Budget request out for coil & cold mass
- **2021 MoU signed between DESY and CERN: BabyIAXO installation at DESY, magnet design by CERN, further manpower & cash support awaited**
- ***Further support of PBC requested (2y fellow) to complete manufacturing, assembly and installation design***
- **In parallel optics and detectors are being organized to allow BabyIAXO operation medio 2025 provided manpower and cash resources are sufficient to place orders for the magnet system (on critical path today)**

