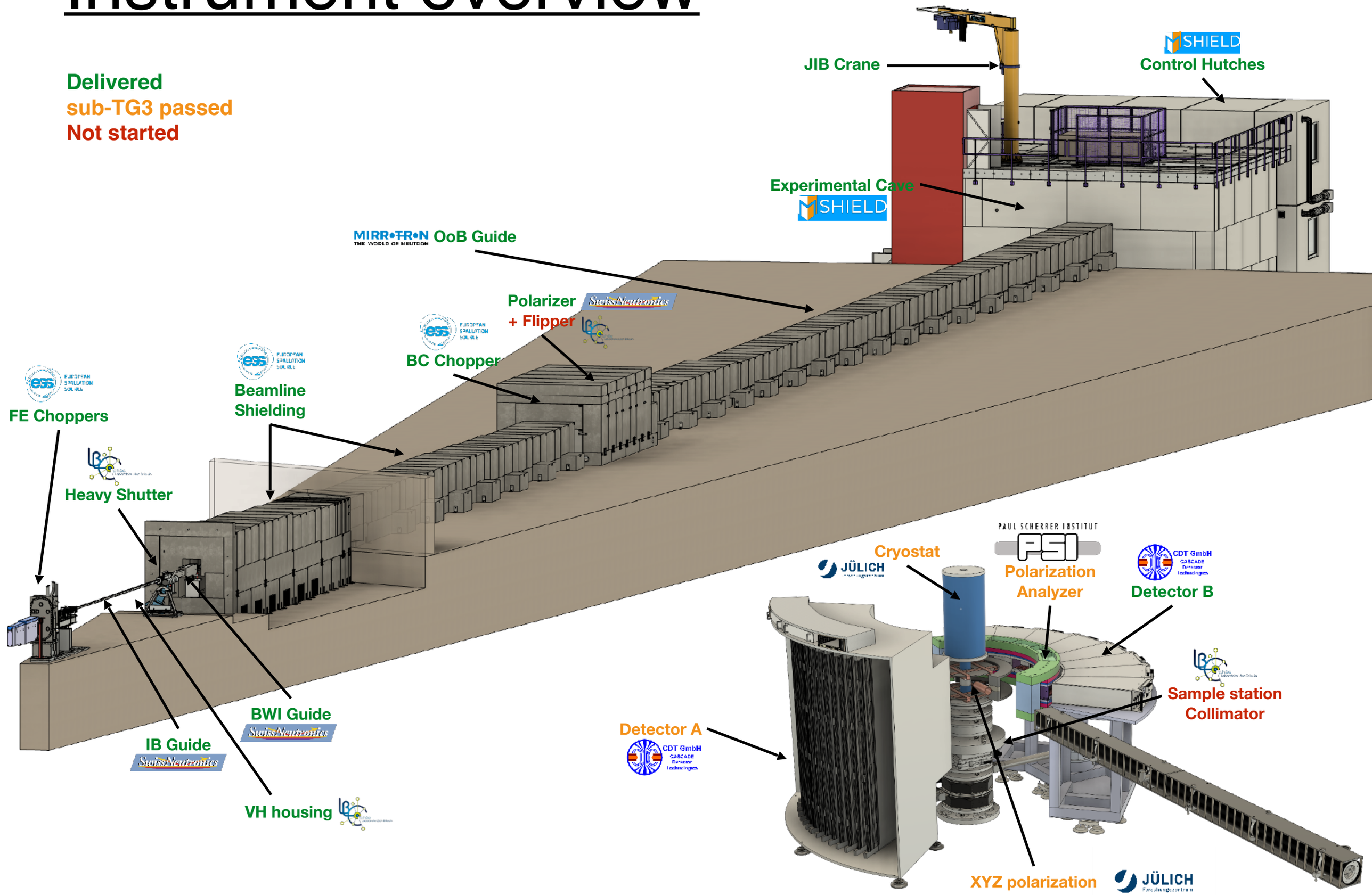
MAGiC: STAP update April 24

Instrument overview

Delivered
sub-TG3 passed
Not started



Human Resources on-site

- Engineer:
  - 2 interviews on-site in late March
  - 2 excellent candidates

- Instrument scientist position:
  - First opening failed (12 candidates, 1 fitting)
  - Reopened until filled: few potential candidates to be reviewed already

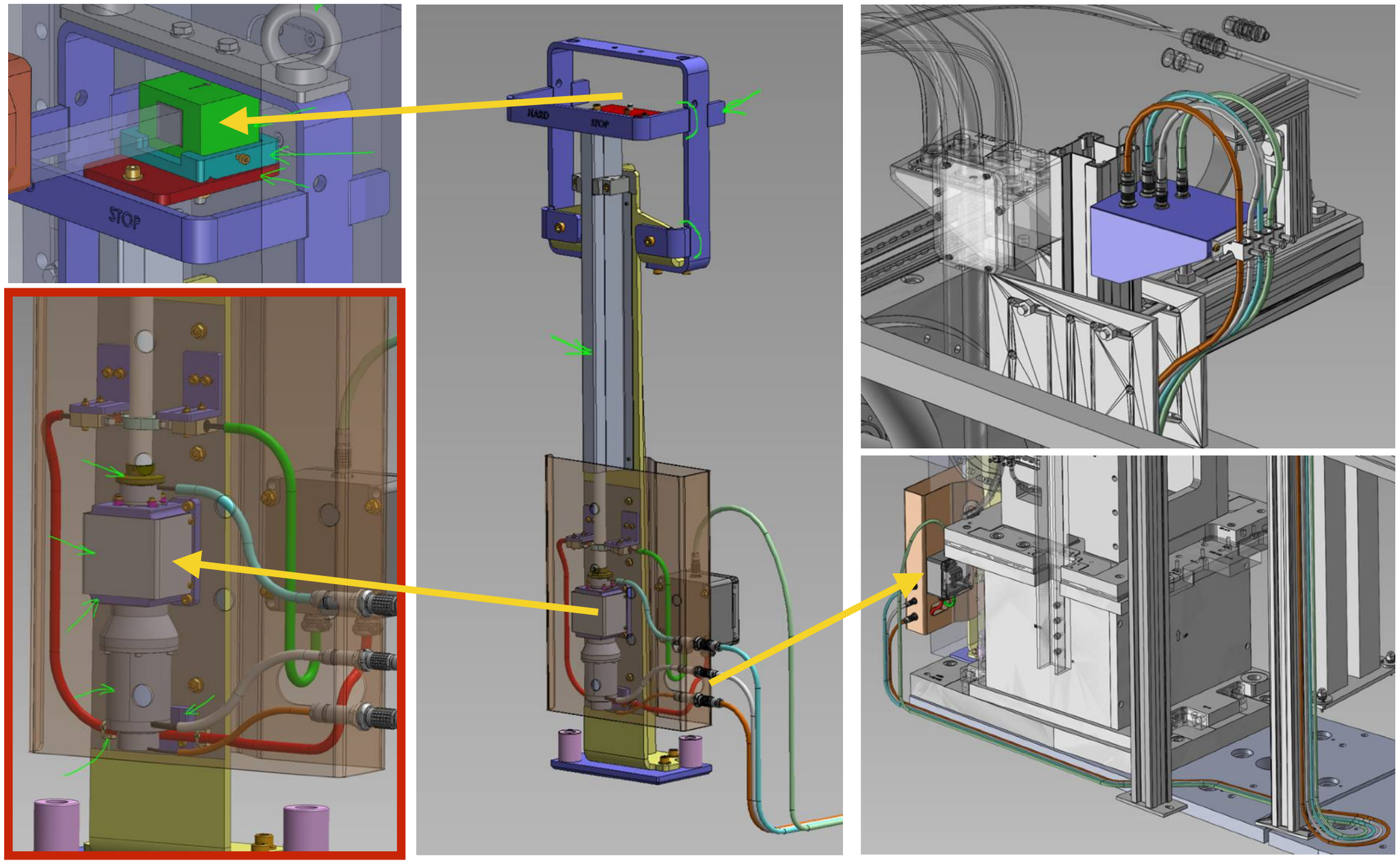
- IPL support: Egi Kuleci
  - Excellent support from NSS IPL
  - Supervises and organises the local activities for the experimental cave since November.

Re-baselining exercise

- Meeting at the end of May
- Detailed plan sent to ESS last week
- Additional files needed to give context (P&ID, overview of instrument)
- Iterative process to remove clashes, and align ressources (limited at LLB).
- Additional meetings with CEP, CUP, PSS and MCA
- New TG5 defined during meeting (2026)

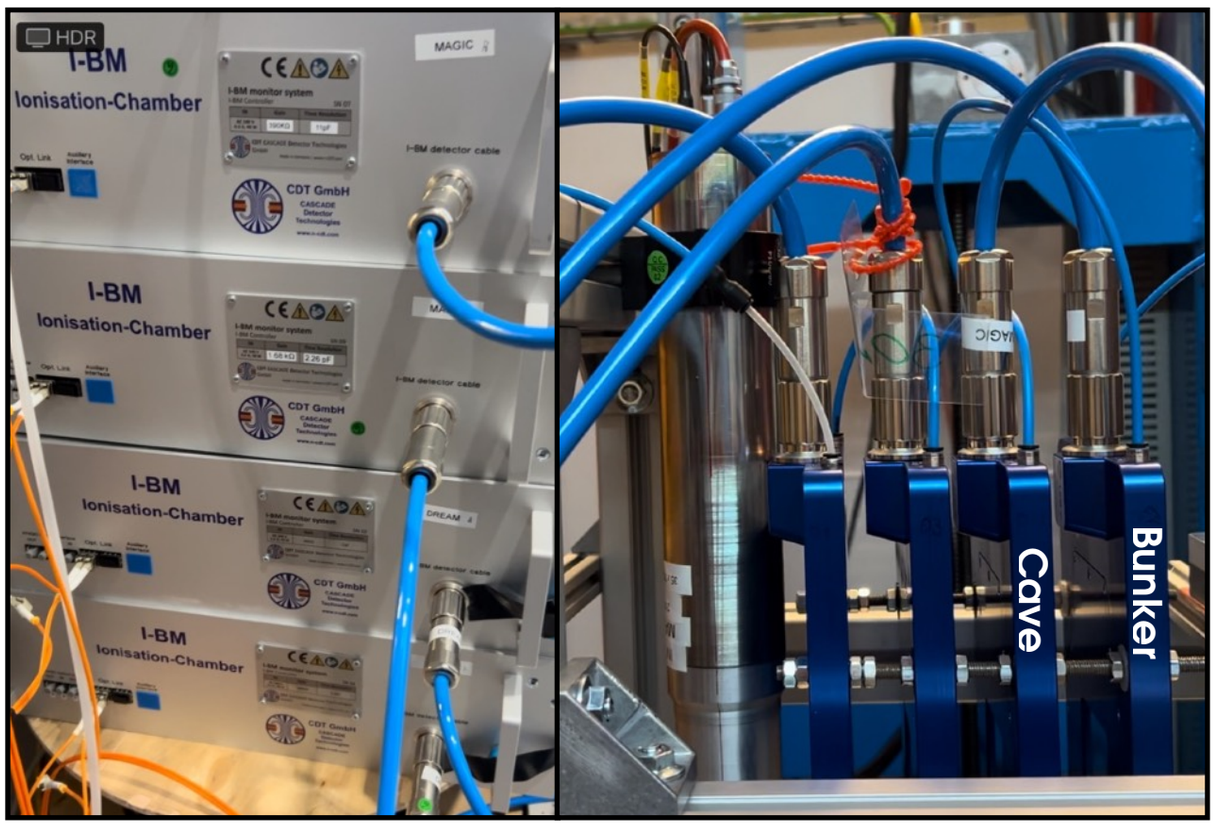
Solid state bender

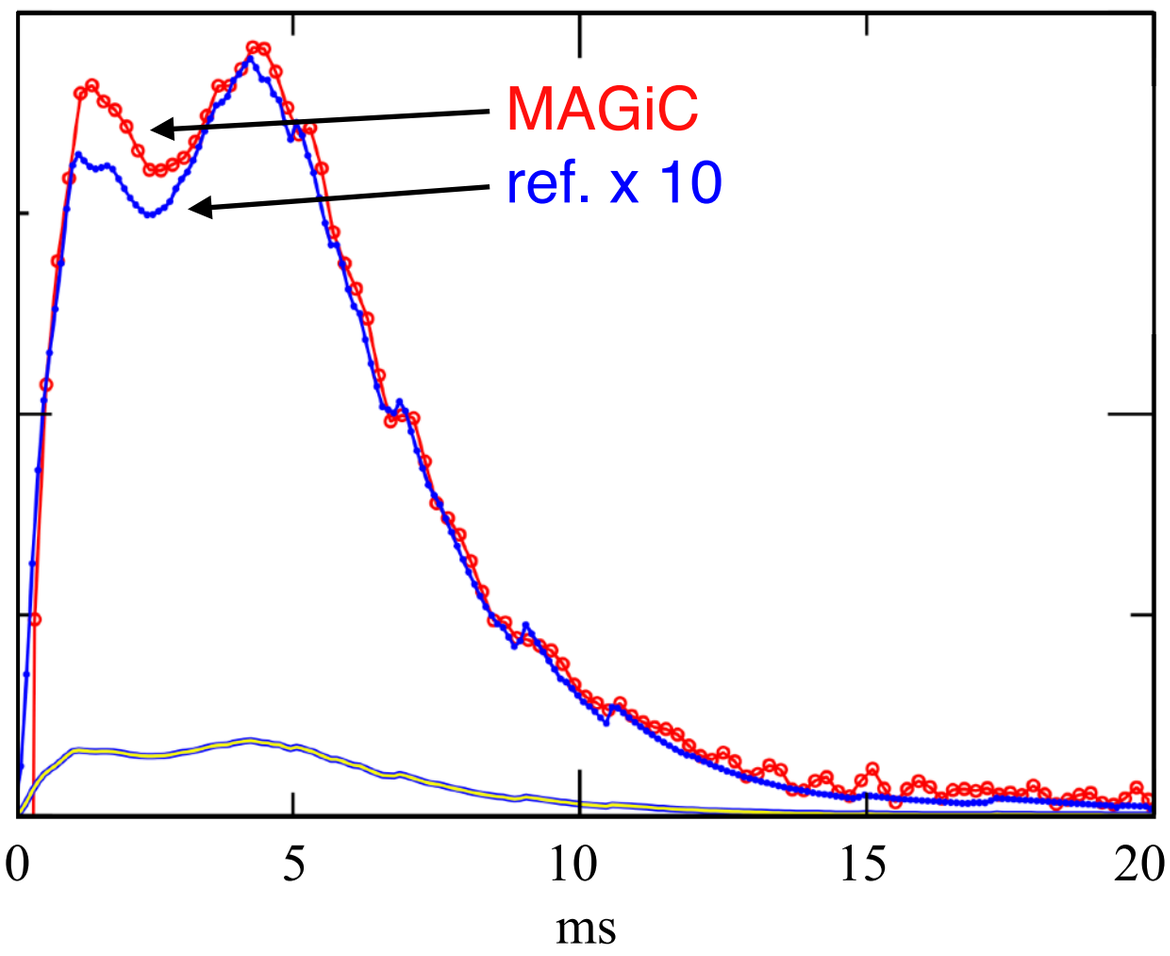
- All components in manufacturing
- Long lead time for motor/resolver



Monitors (cave & bunker)

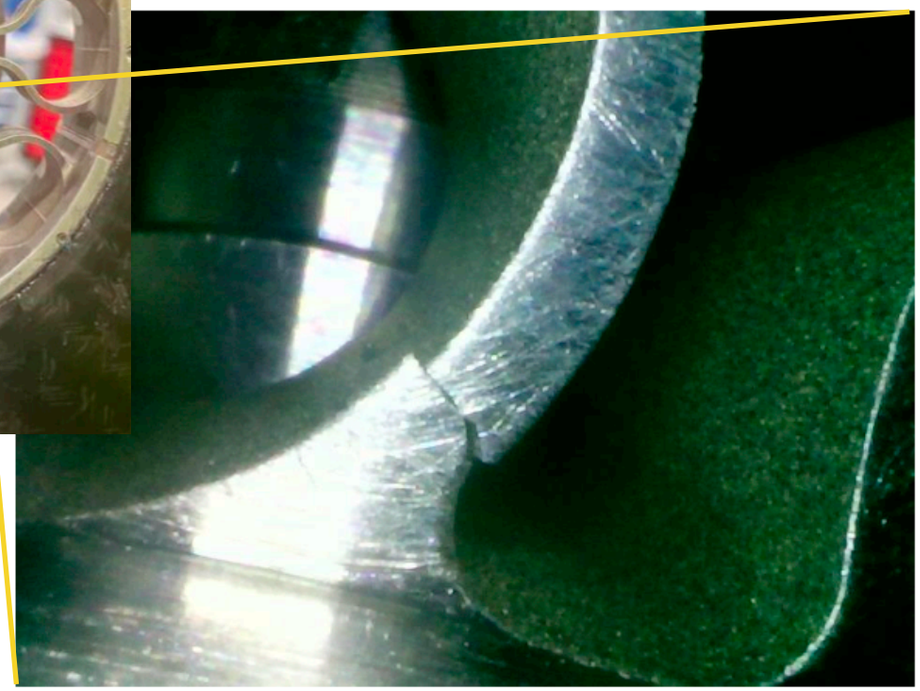
- Monitors tested at ISIS with reference scintillation monitor:
  - Monitors worked !
  - Some deviations in ToF spectra
  - Insufficient electrical insulation
- Tests will be repeated at PSI after optimisation





Choppers

- Disks at Airbus: solution found
- Latest update: delivery in Sep-24, installation in Jan-25

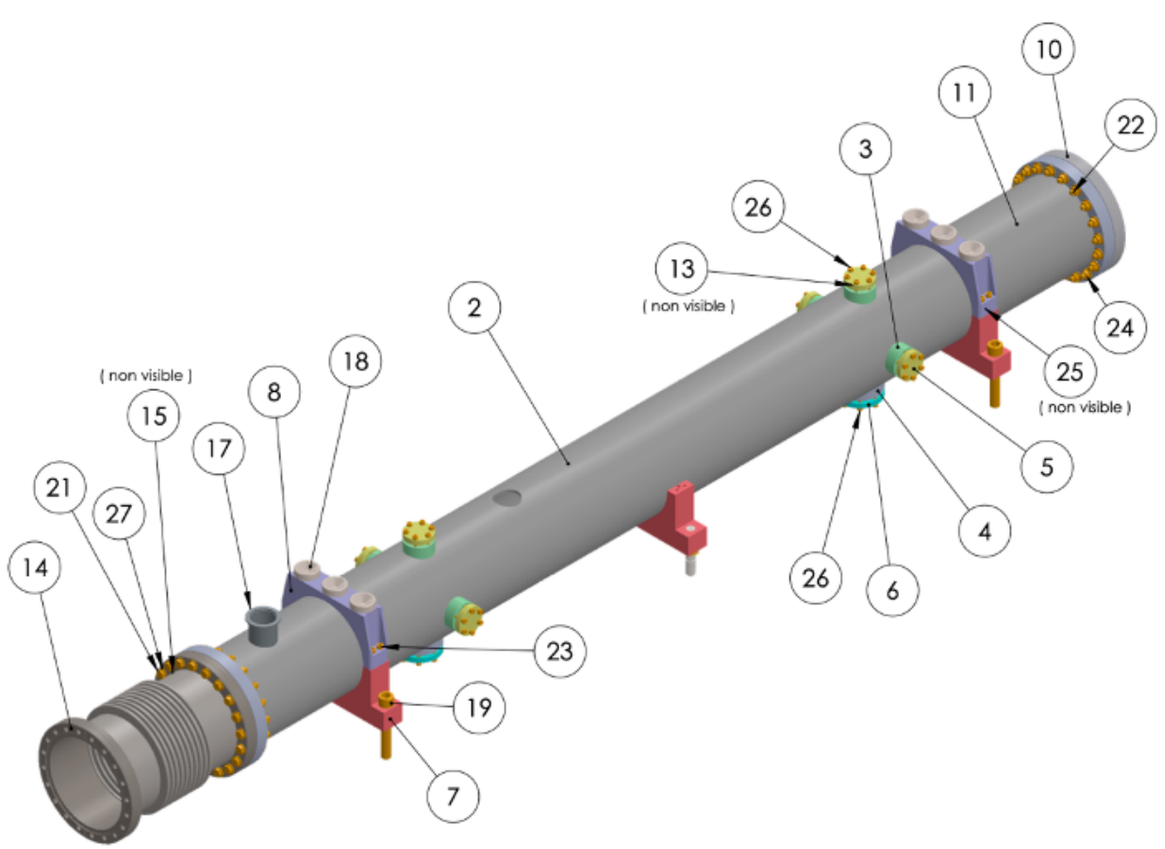


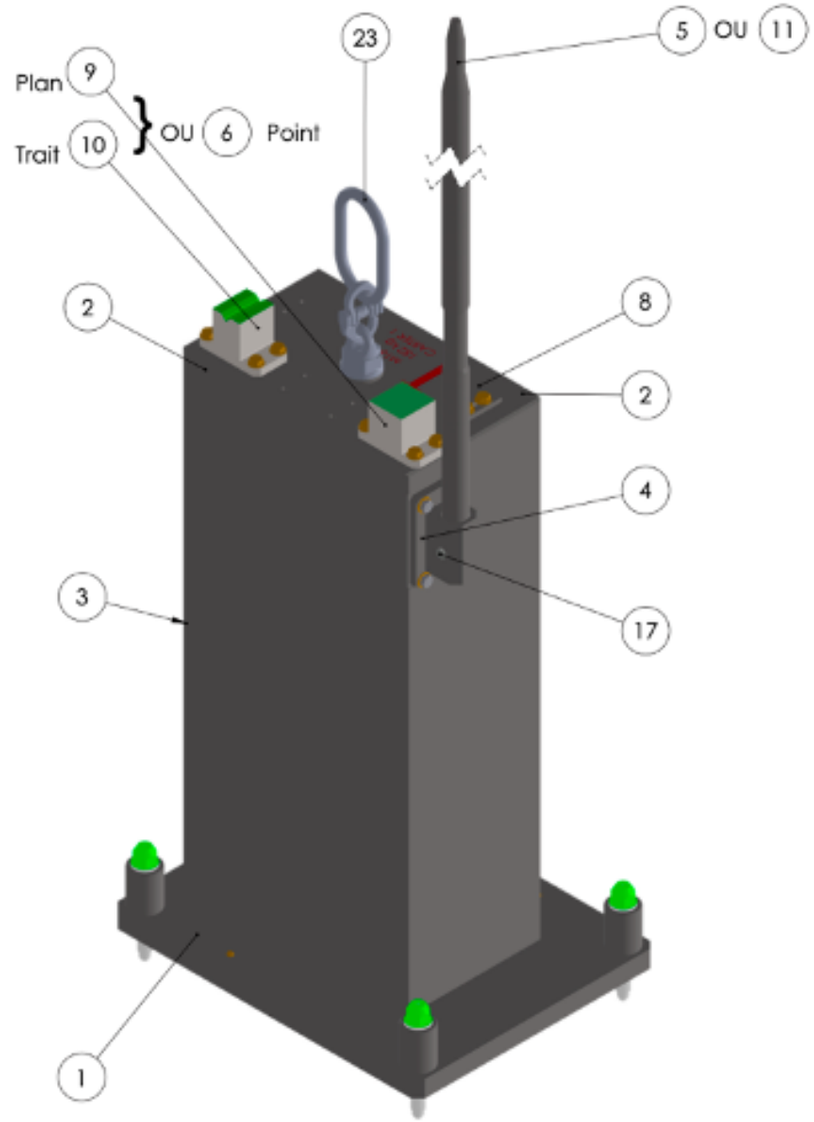
Guide system

- Final delivery scheduled for Jul-24.
- 6 months delay due to difficulties at Mirrotron. Do not impact installation plan.

Vacuum housing

- Tendering documentation still at CNRS
- Final pass this month
- Current plan => installation in Mar-25



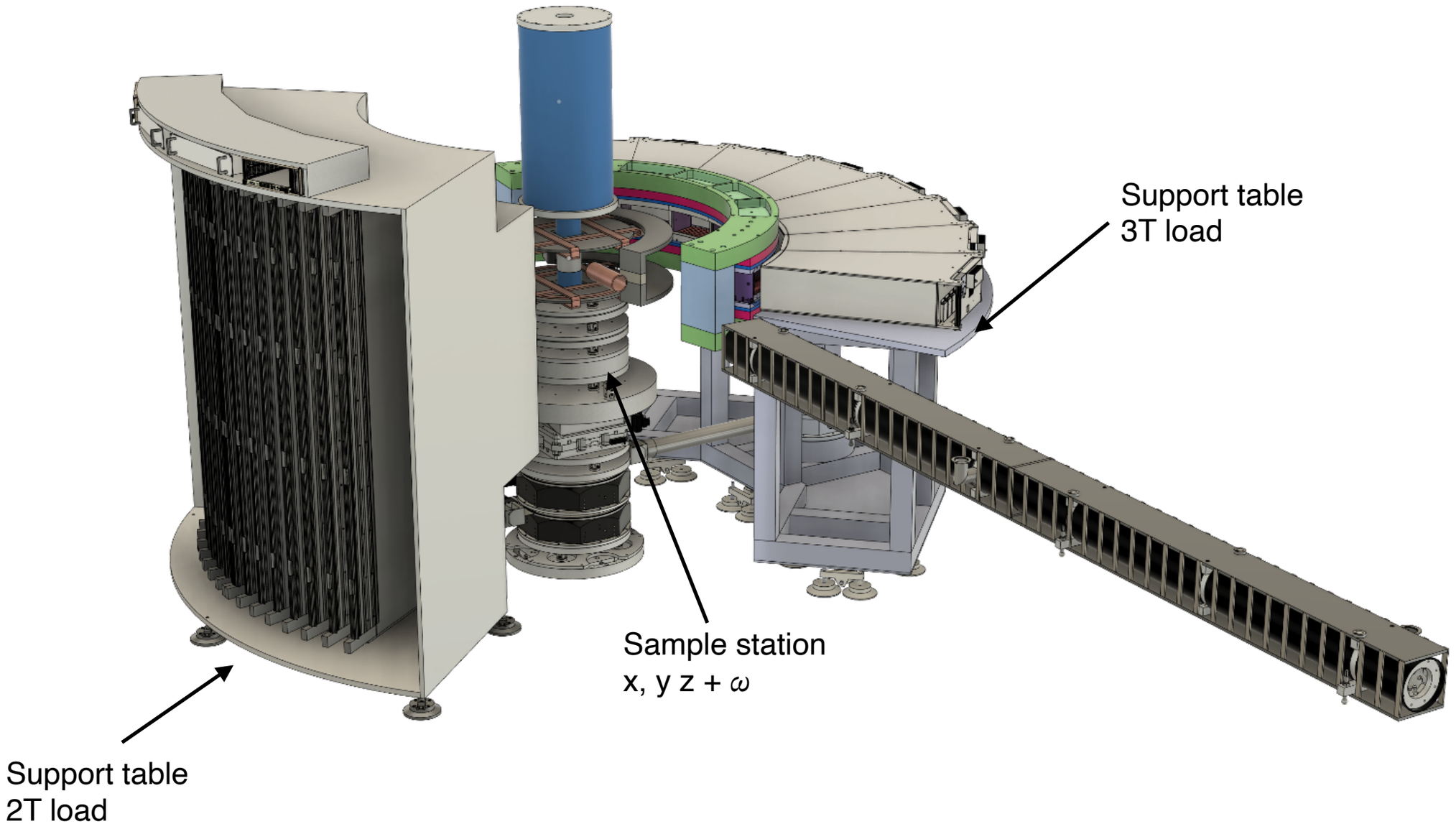


Experimental cave

- Installation start in Nov-23
- Installation end in April-24
- Final inspection on 2nd and 3rd of May

Sample station and support

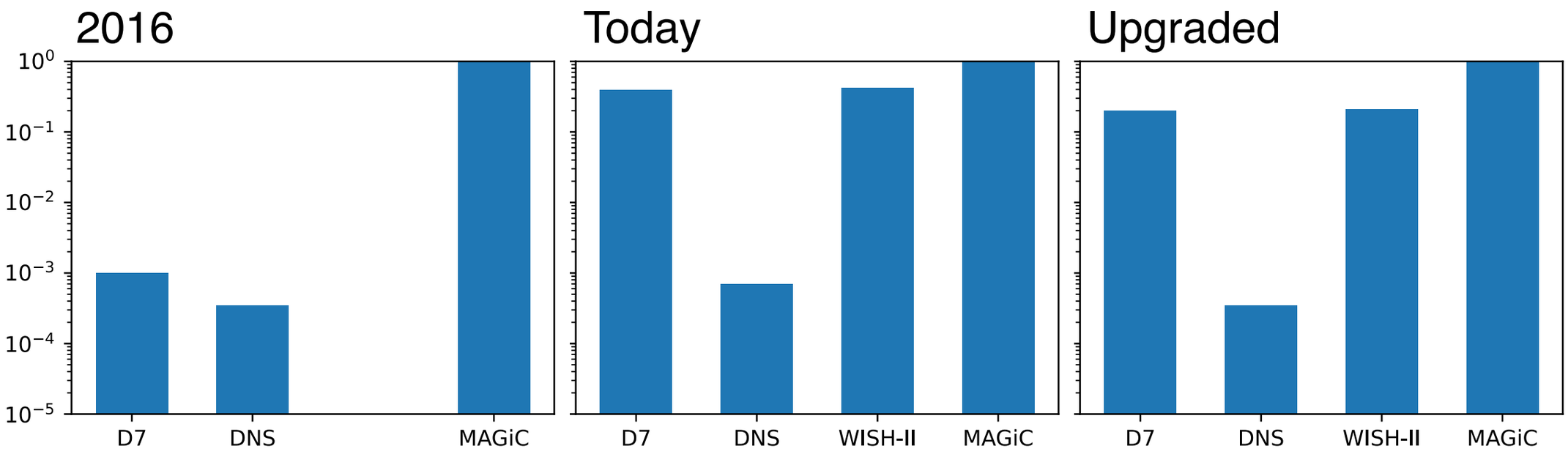
- No movements on this front



Detectors

CDT GmbH
CASCADE
Detector
Technologies

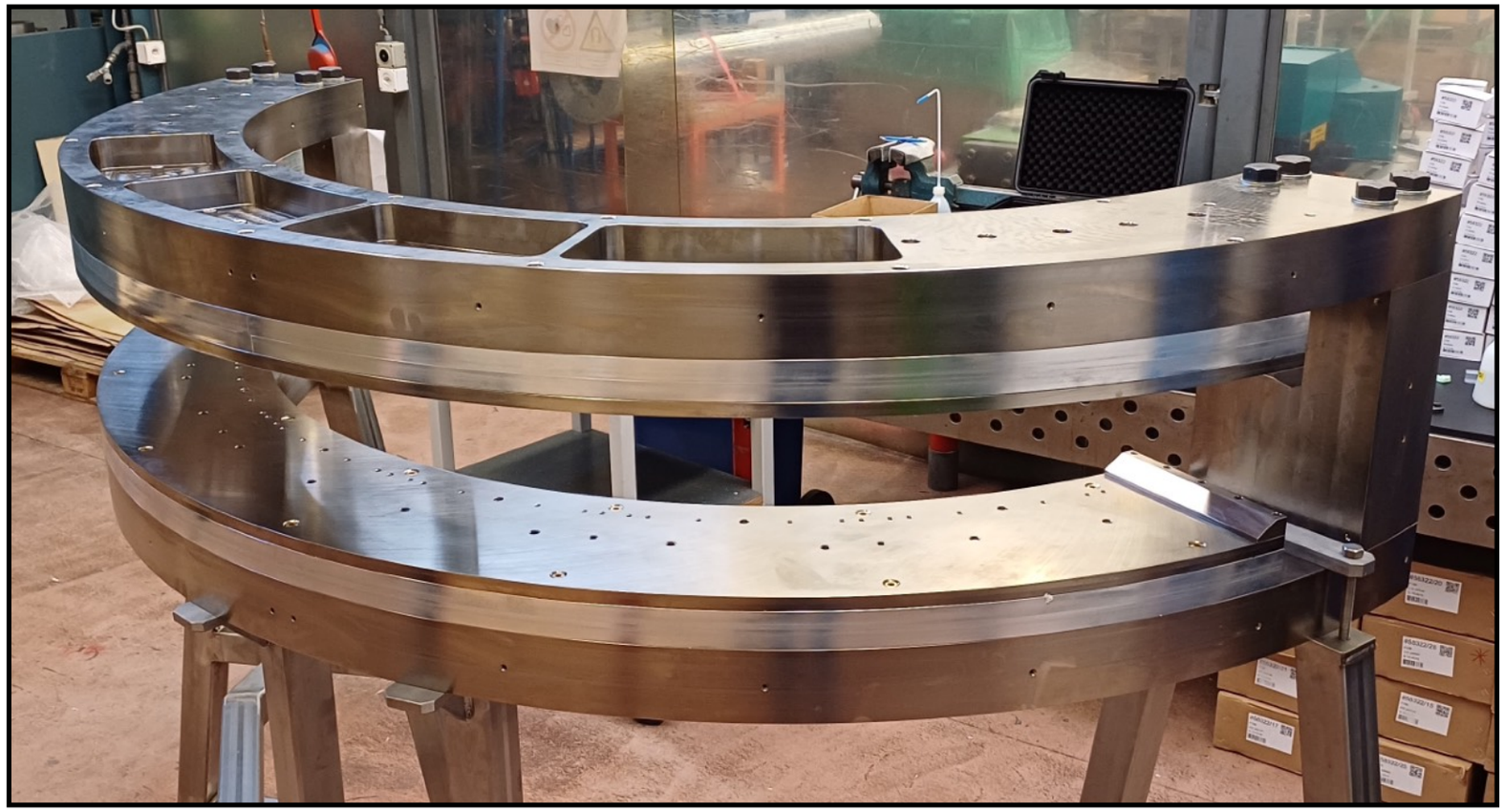
- Detector B comfortably stored at ESS
- Detector A:
  - Delivery in first half of 2025
- Instrument performance comparison:
  - WISH-II will be close to MAGiC (1/20th of flux but huge detector coverage).
- Pushing for detector coverage upgrade



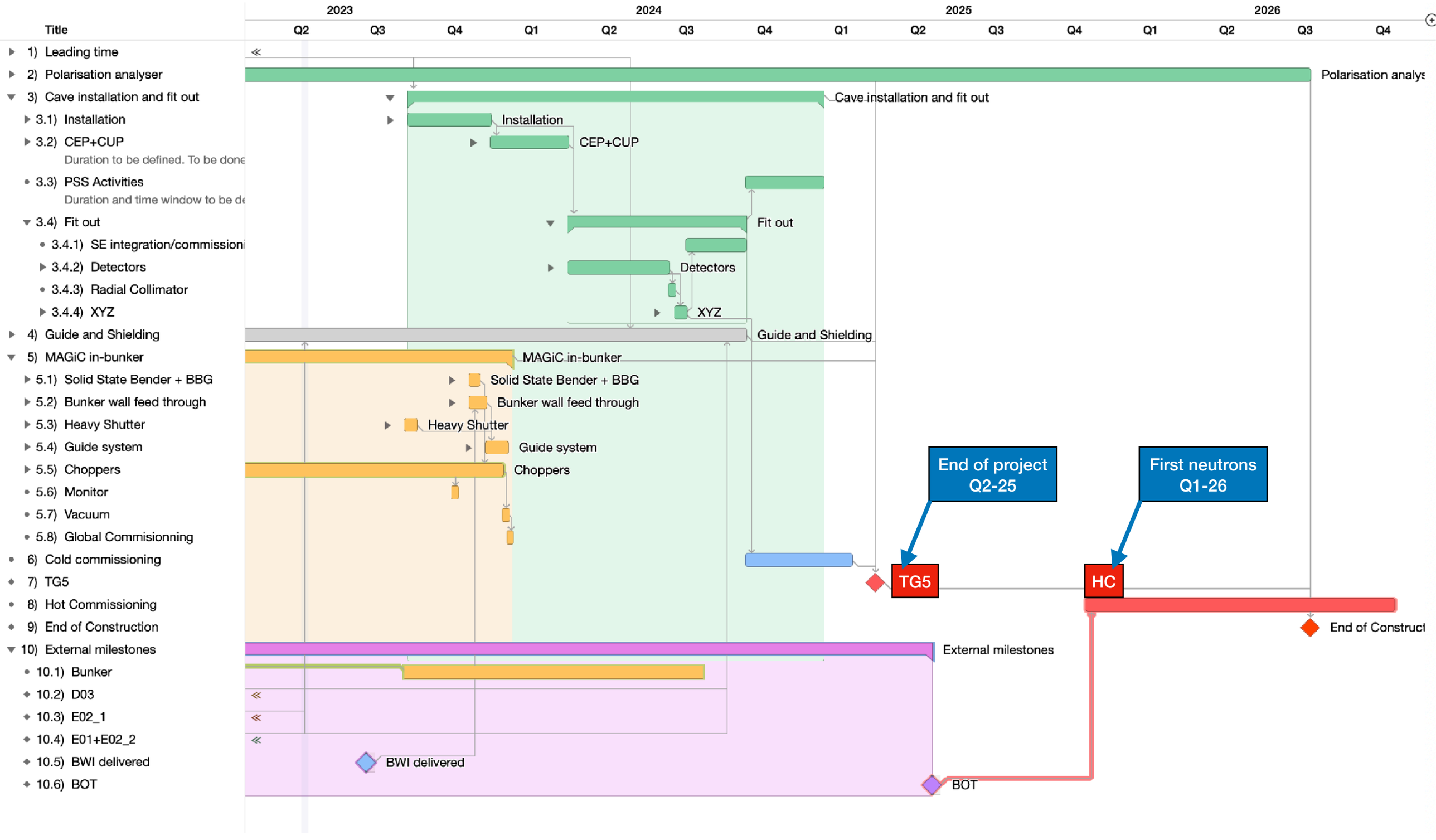
2 orders of magnitude improvement on “competitors”

Polarization analysis (PSI)

- 75% coverage offer accepted
- Discussion still in progress for 100% coverage
- **Ready for manufacturing: 22/04/24**
- Detailed plan in progress for re-baselining



Installation plan



Installation plan v.??