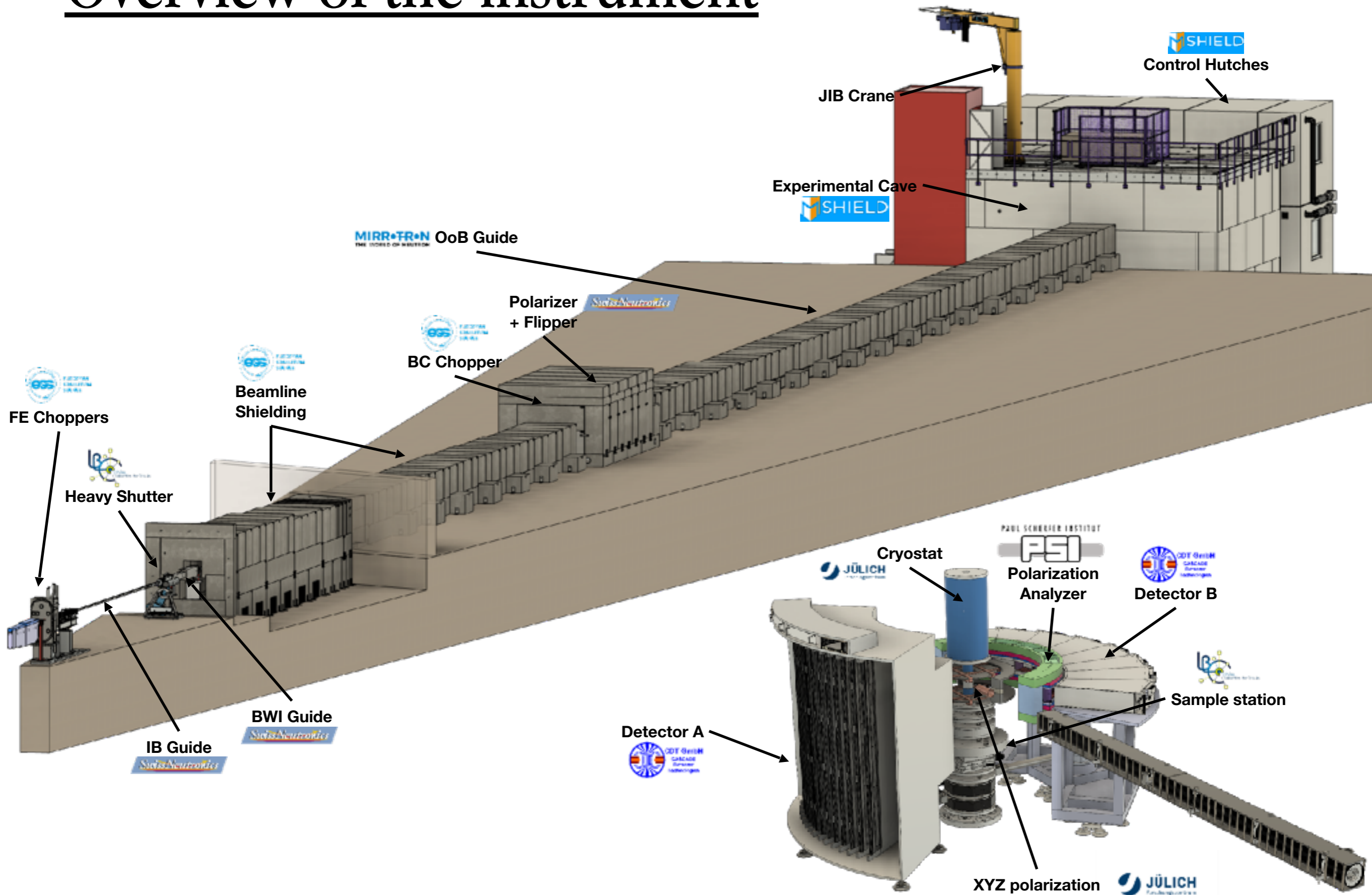




MAGiC: STAP update October 23



Overview of the instrument



Human Resources on-site

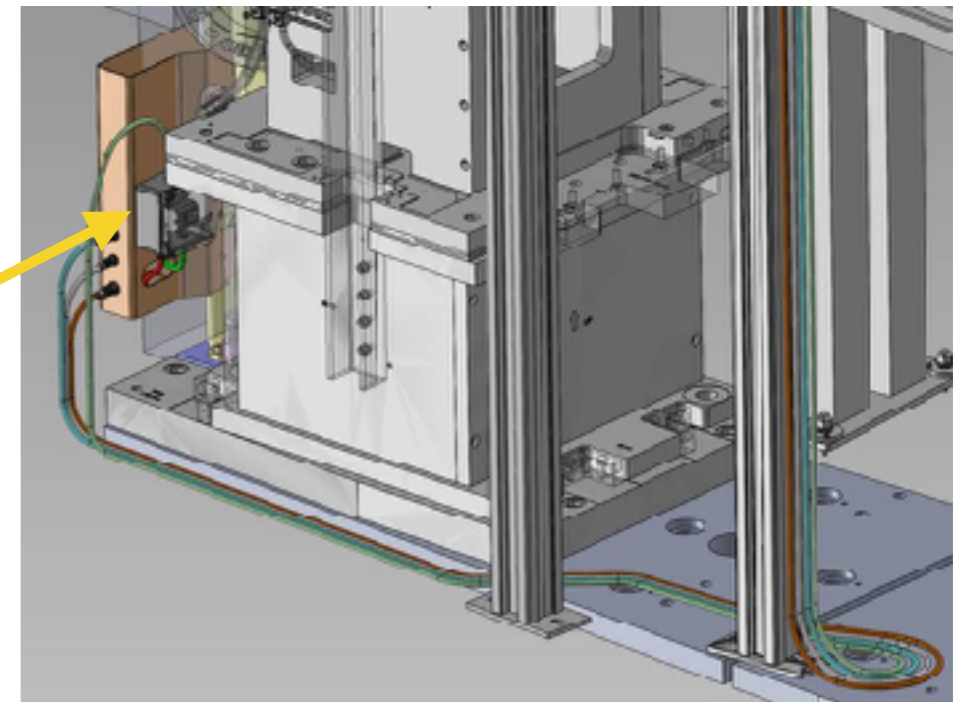
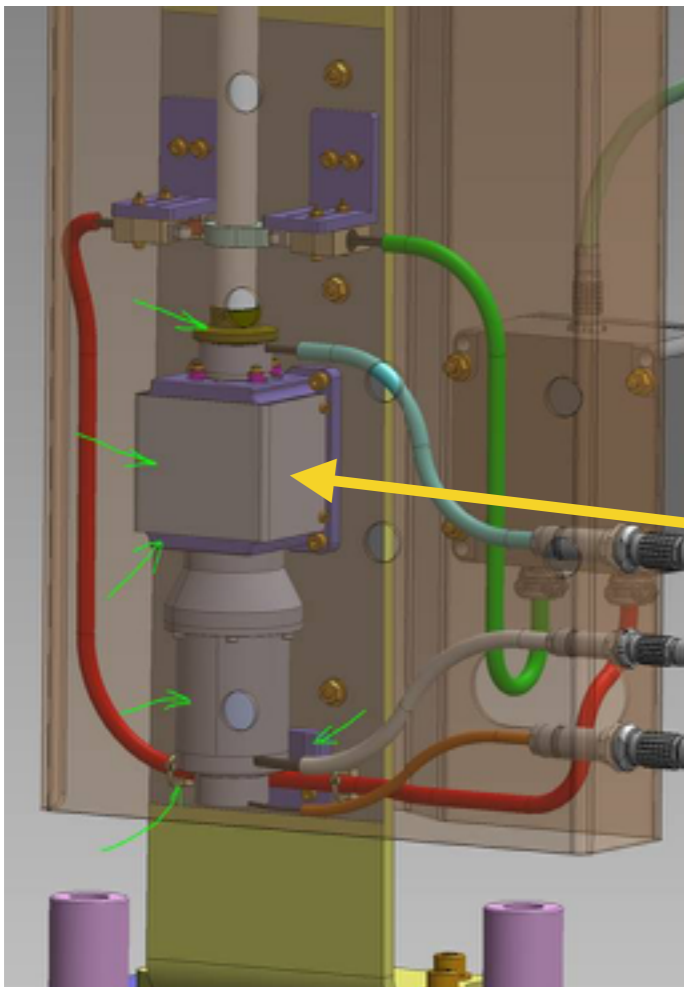
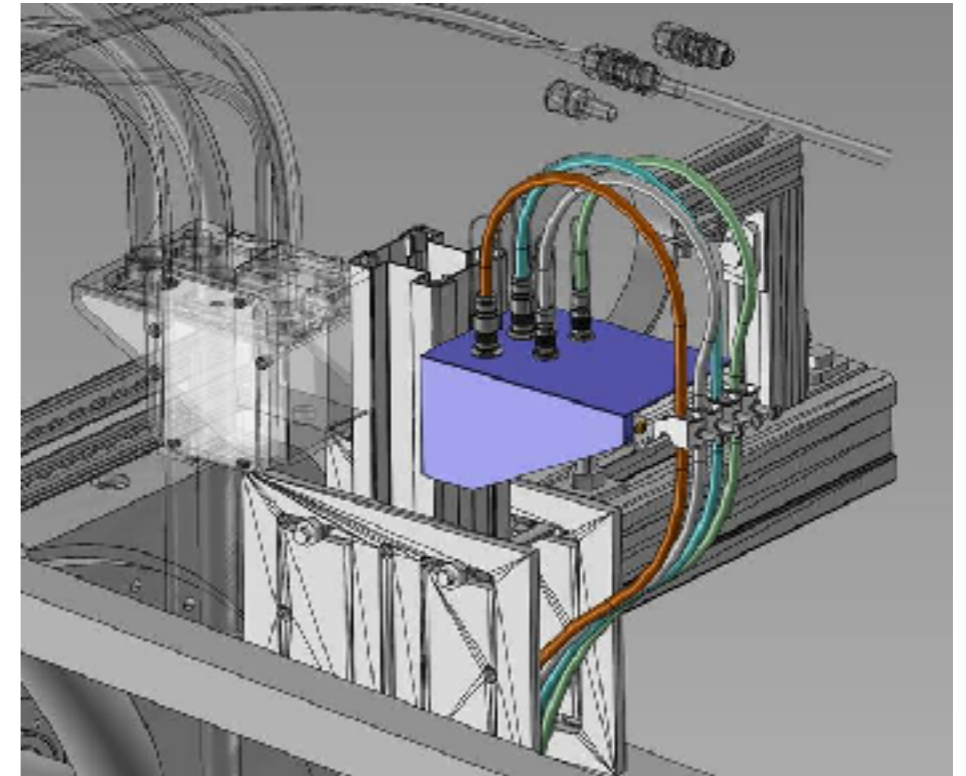
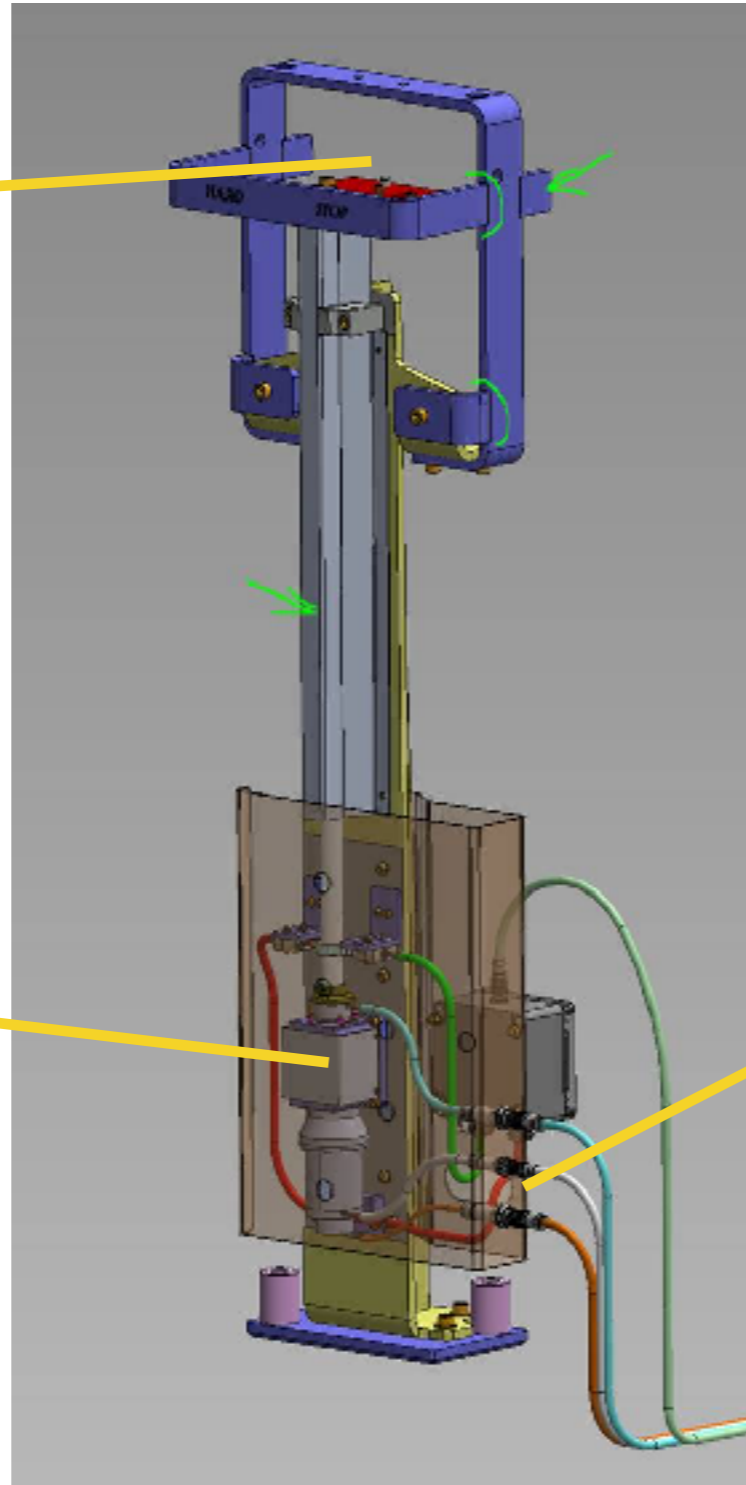
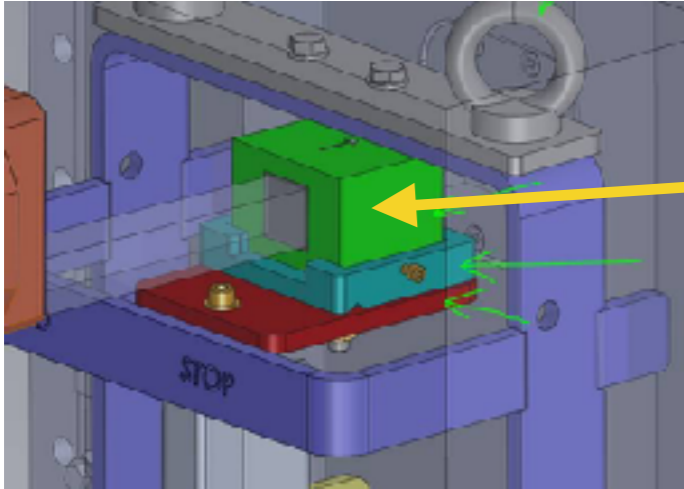
- Engineer bailed out last minute
 - Reassessing our needs with shifted timeline
- Instrument scientist position
 - Job opening in ~3 weeks
 - Interviews in January
- No dedicated IPL & technicians:
 - NSS to provide resources
 - Not as easy as expected/promised

Things that are late

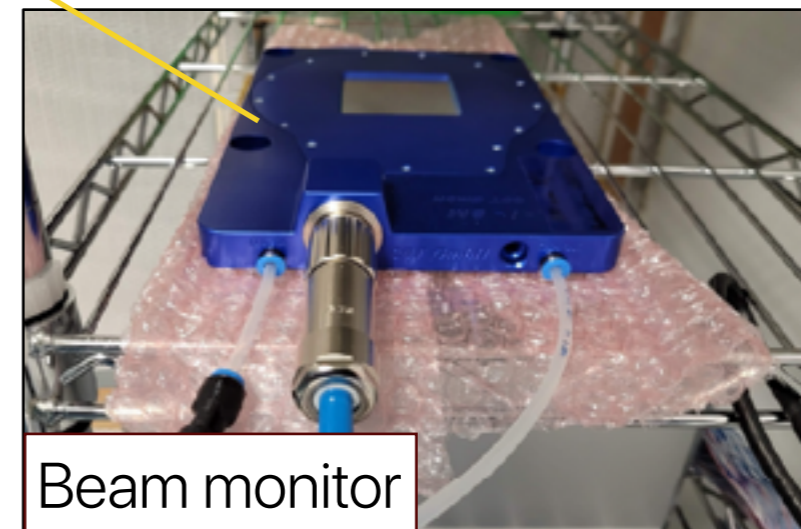
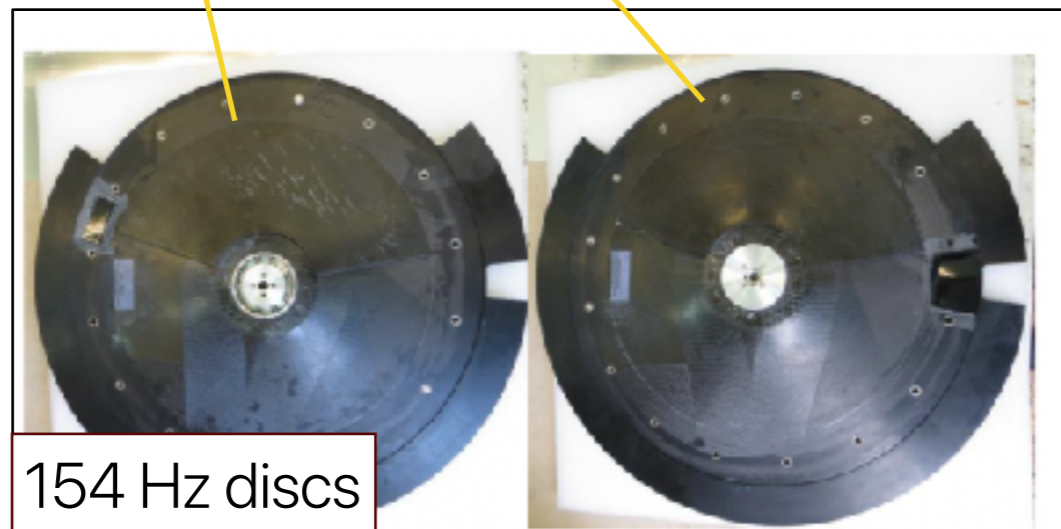
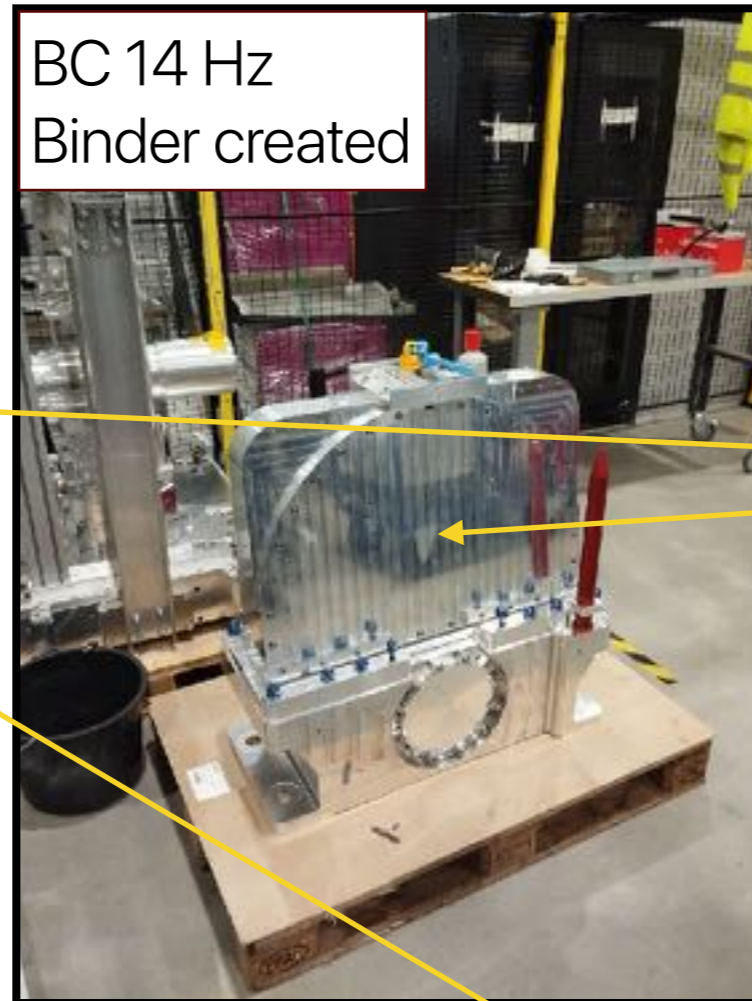
- CEP & CUP
 - Highest priority
 - Documentation in progress
- PSS, Hazard & Safety
 - In progress
 - Contact with Hazard & Safety team
- Motion Control and Automation
 - Common project proposed by MCA
 - Would help us a lot !

Solid state bender

- Bender ordered & support design finalised

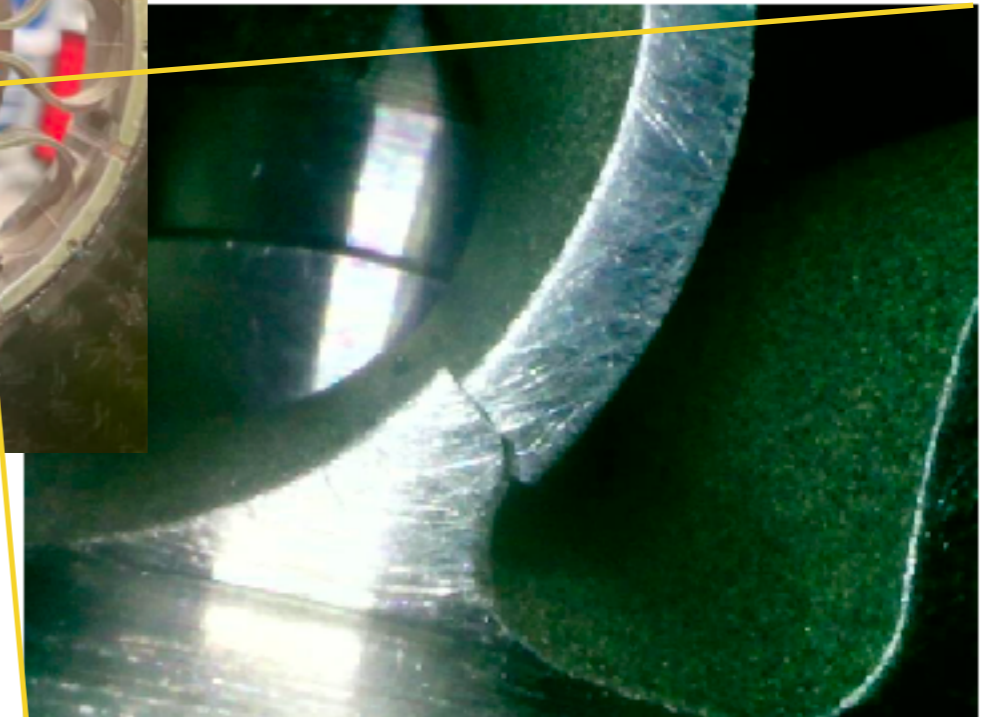


Choppers and monitor



Choppers and monitor

- PSC disk failure after 4 hours @ high speed (yesterday's news)
- Similar to DREAM hub problem: 4 months delay



Guide system

- Arrived at ESS !

Lot 1



Lot 2



Lot 3

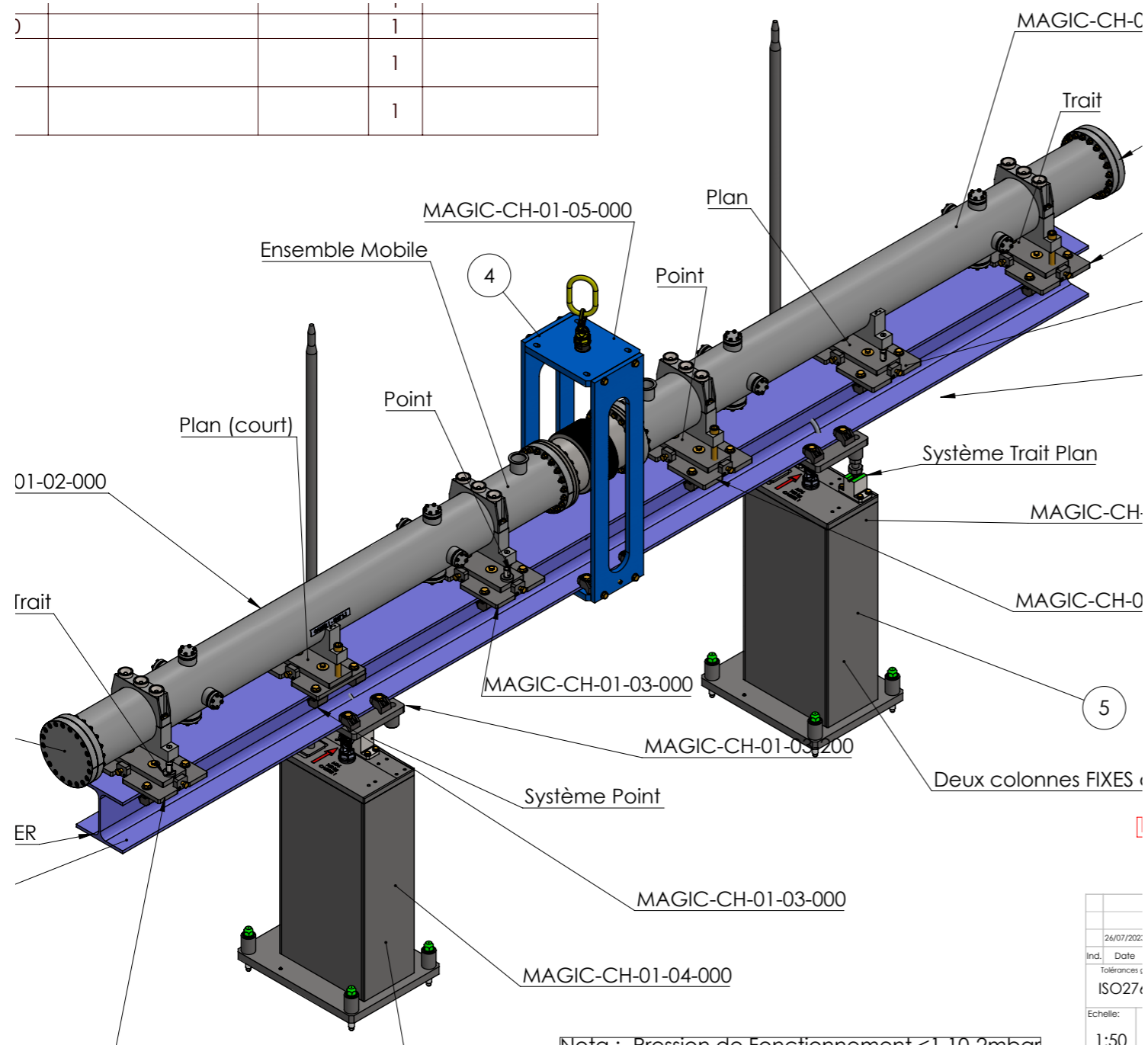


Lot 4



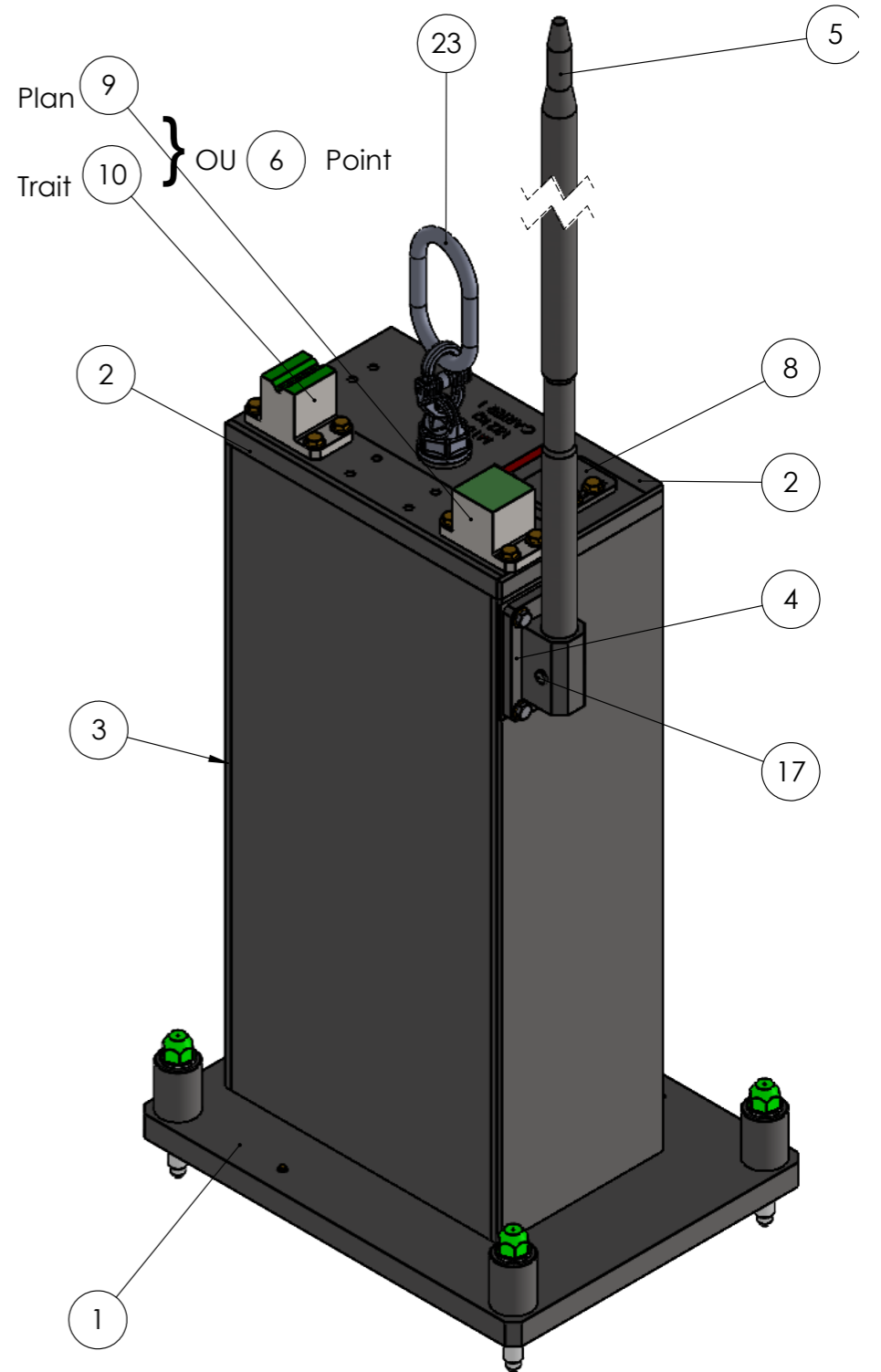
Vacuum housing

			1
			1
			1



Nota : Pression de Fonctionnement $\leq 10^{-2}$ mbar

26/07/2022	
Ind.	Date
Tolérances \pm	
ISO27	
Echelle:	
1:50	



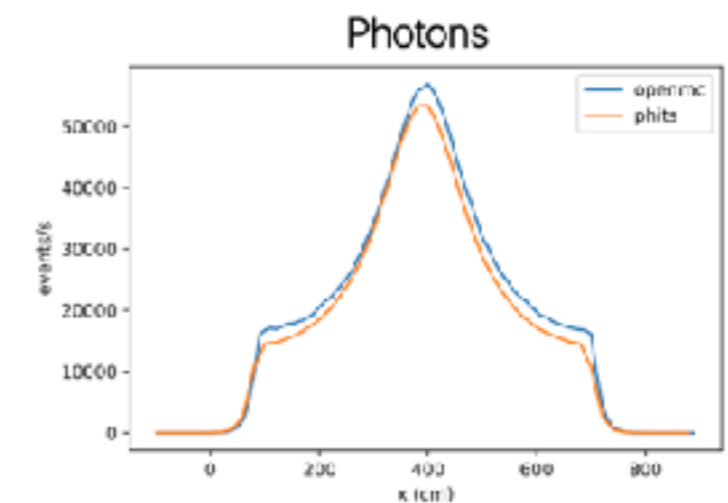
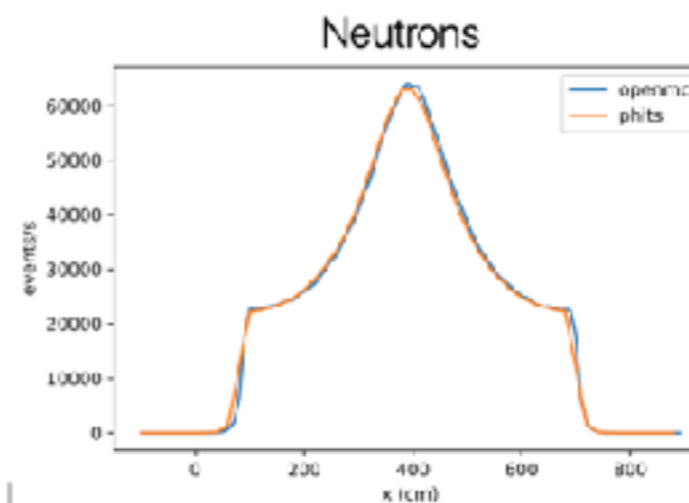
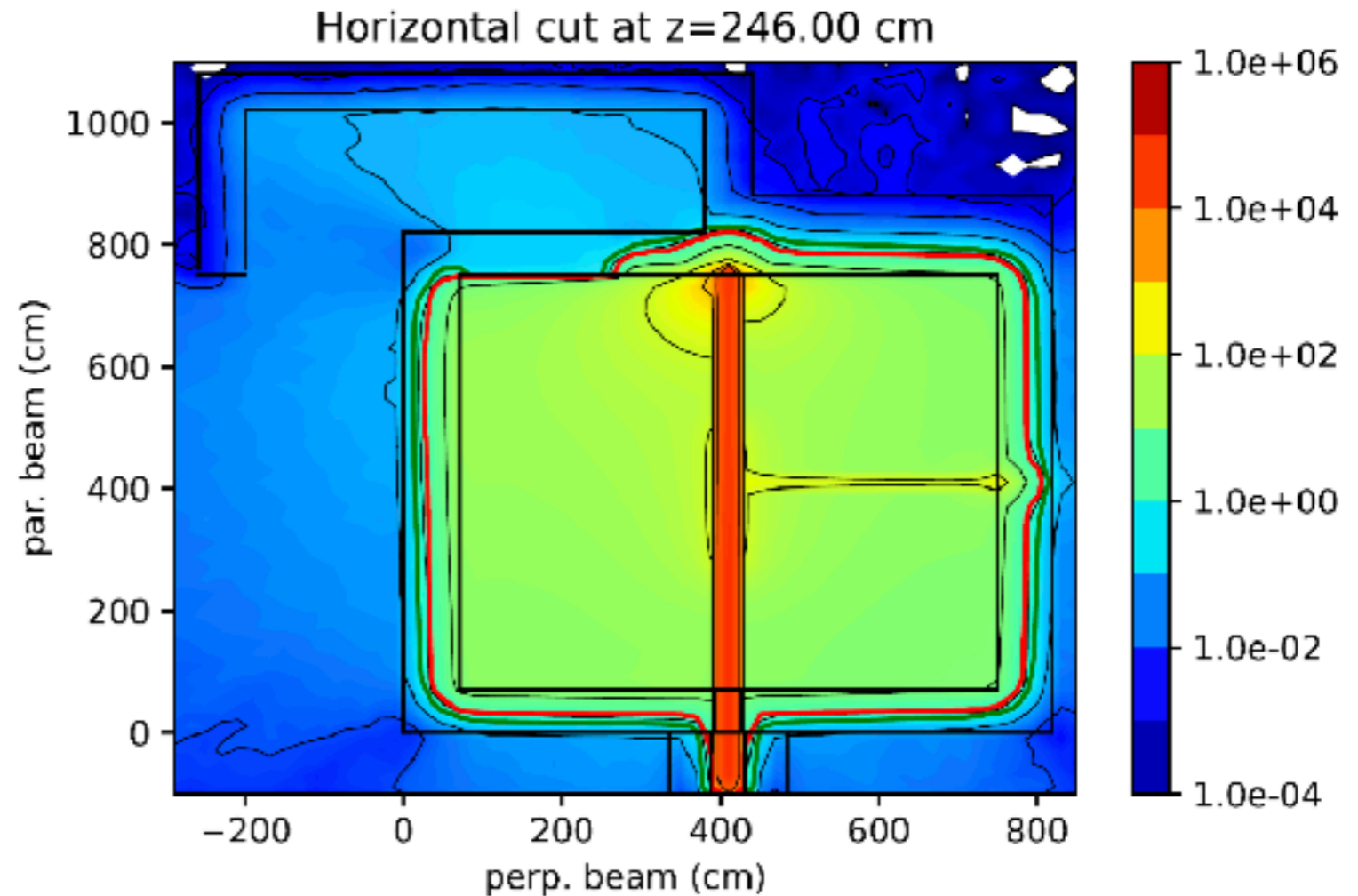
Heavy shutter

- At ESS since July.
- Installation in November (binder in progress)



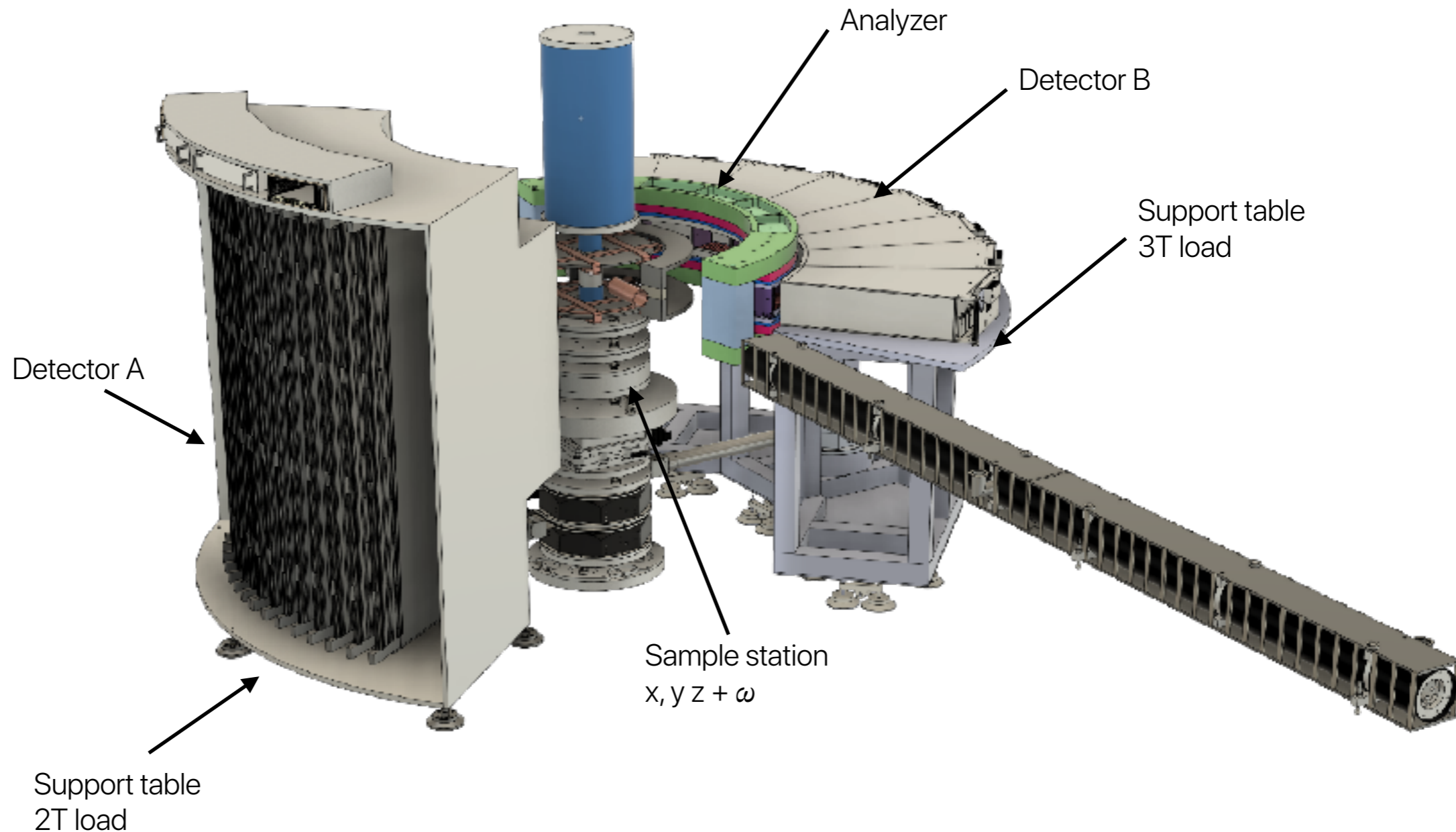
Experimental cave

- Installation start in Nov-23
- Binder created
 - MShield in charge of most of the actions
 - No IPL on-site yet, in discussion with Gabor
- Radiation safety difficulties: calculations not accepted by licensing (software issue ...)
- Polished floor installed at the end of construction (promising tests in progress at MShield)



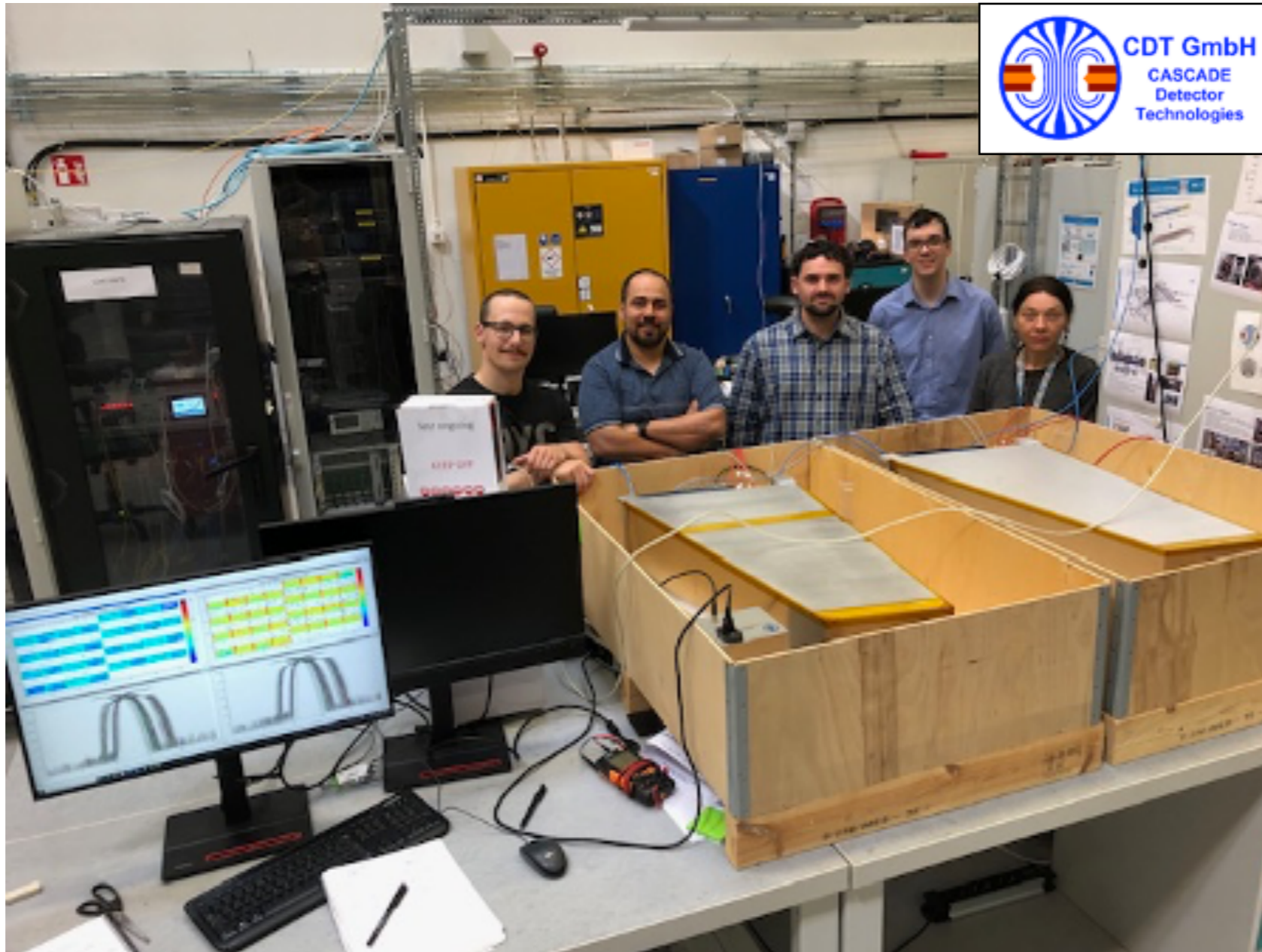
Sample station and support

- Design effort on support table
- Tendering document for collimator in progress



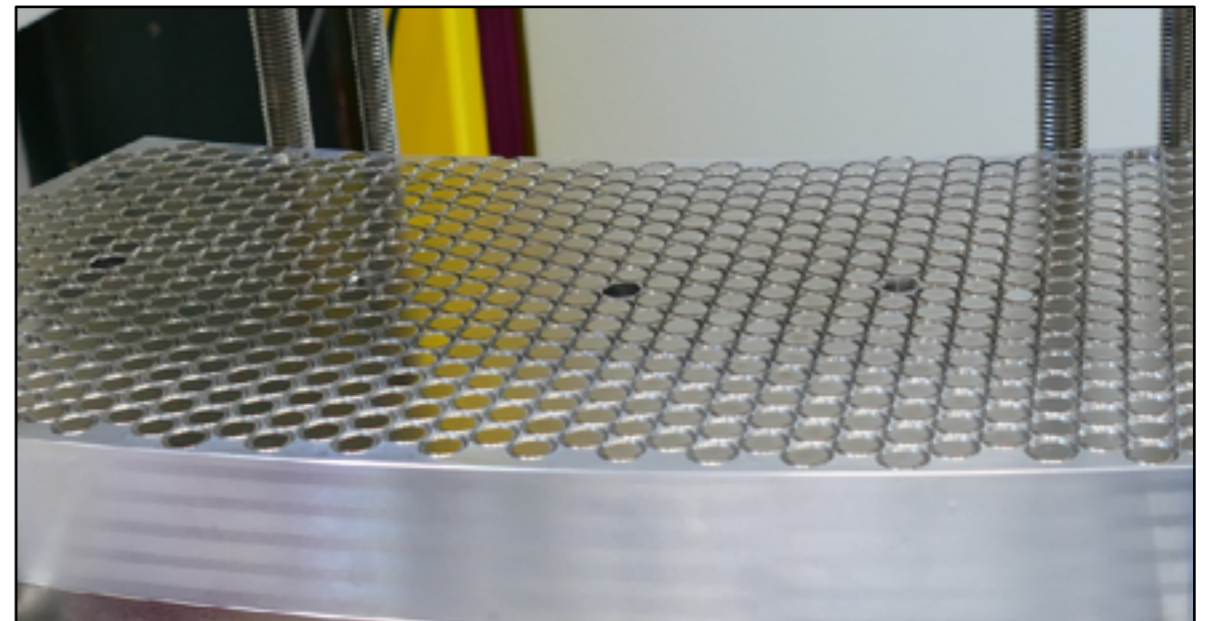
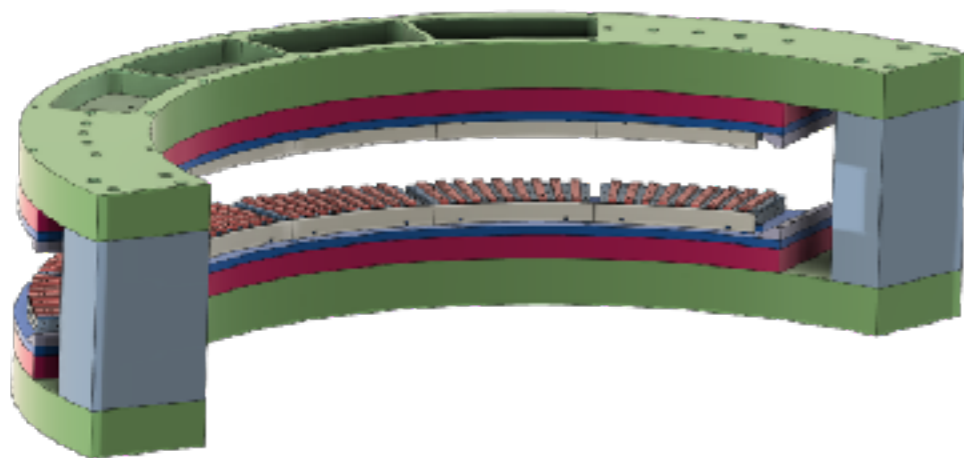
Detector B

- Modules at ESS (Utgard) for integration with DetG
- Great help from CDT !



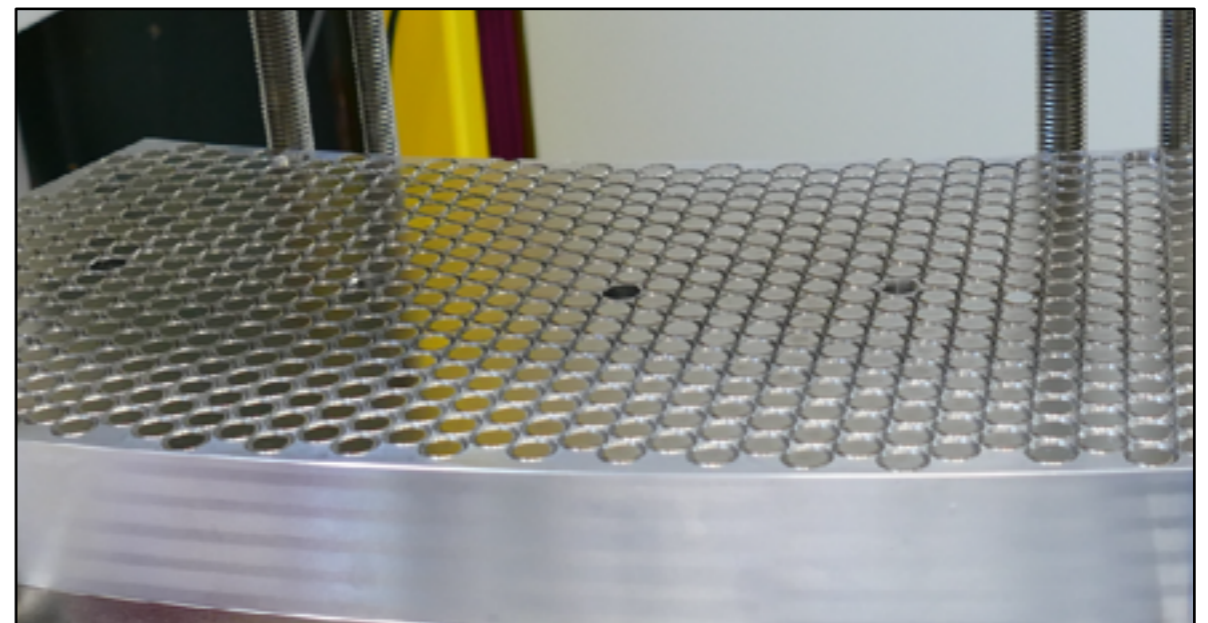
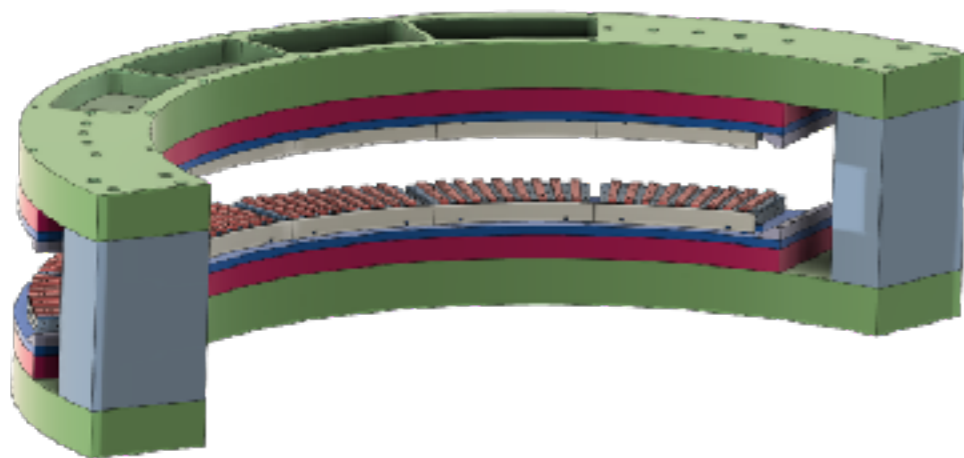
Polarization analysis (PSI)

- Offers for wafers and coating received
 - All offers above budget
 - 300 k€ above for 75% coverage
 - 800 k€ above for 100% coverage
- Discussions in progress with NSS
 - Technical review by P. Deen (pushing for 100% option)
 - Budget discussion between NSS and PSI (contingencies)



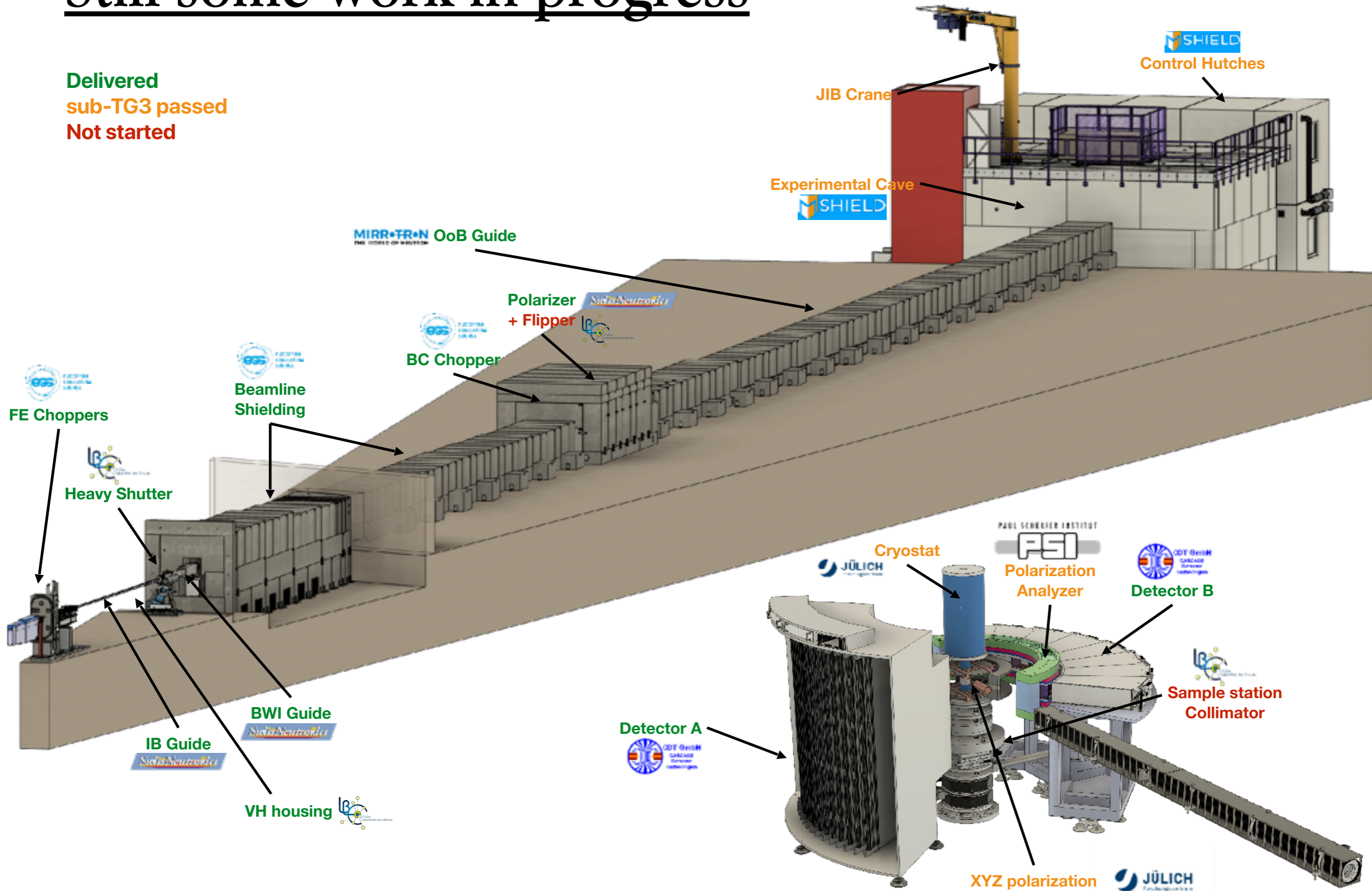
Polarization analysis (PSI)

- Scientific scope can be achieved with both options
- Cons:
 - Two detector positions for the same Q-space coverage => factor 2 loss
 - 20 k€/day cost inefficiency in operation
 - 2 SUMO modules from detB must be uninstalled to protect them from direct beam when moving analyzer => cost inefficiency



Still some work in progress

Delivered
sub-TG3 passed
Not started



When will it be installed

