

NCBJ for ESS

*Possible in-kind contribution from
National Centre for Nuclear Research*

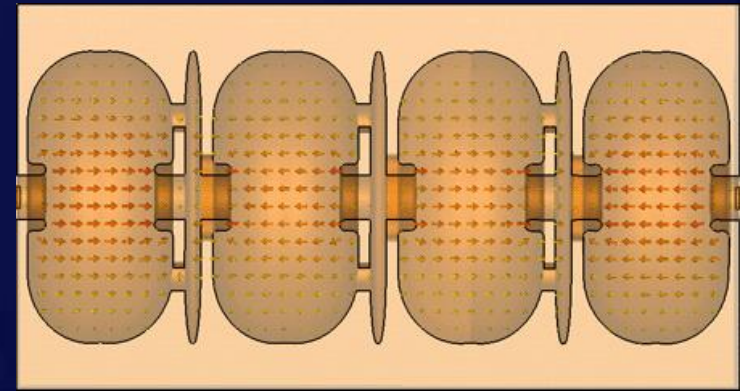
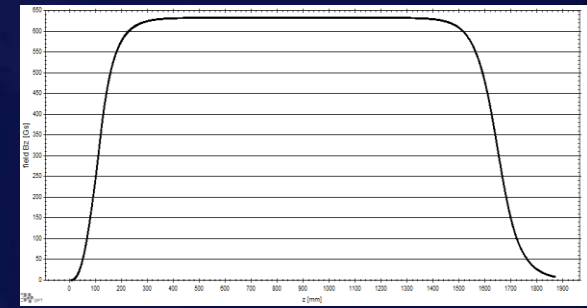
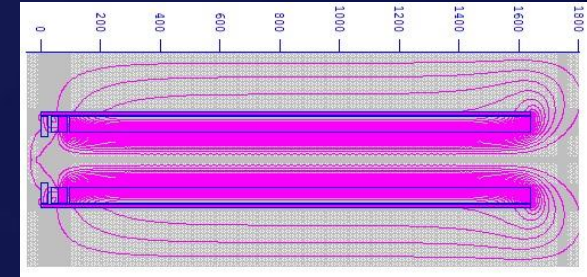
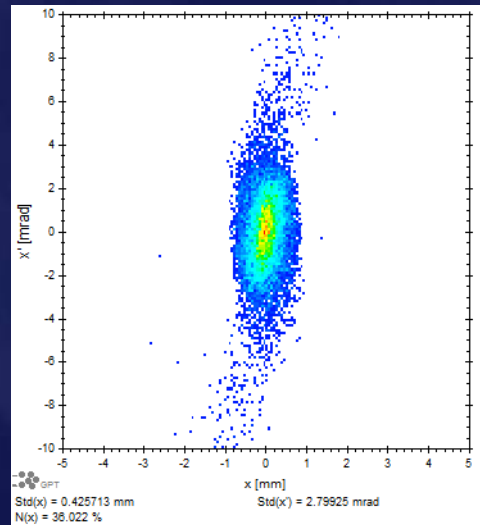
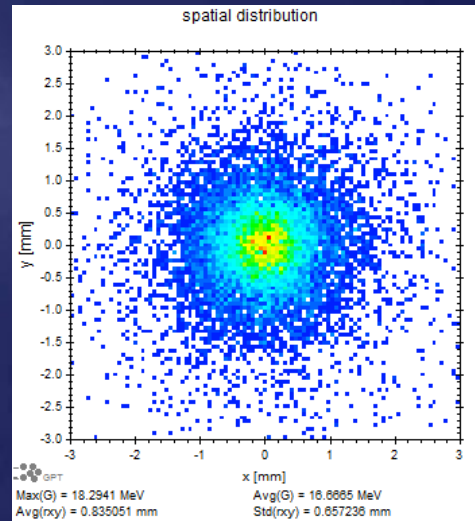
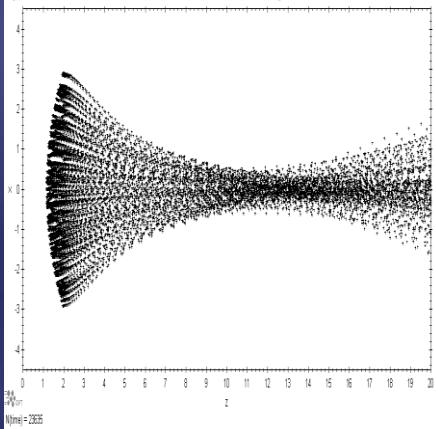
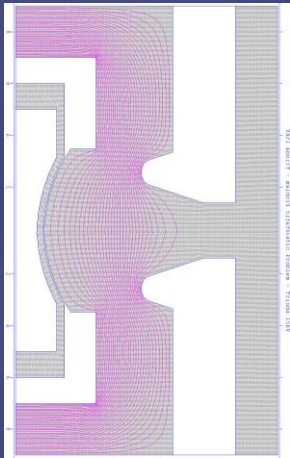


ESS partner and Industry day, 25.03.2014r

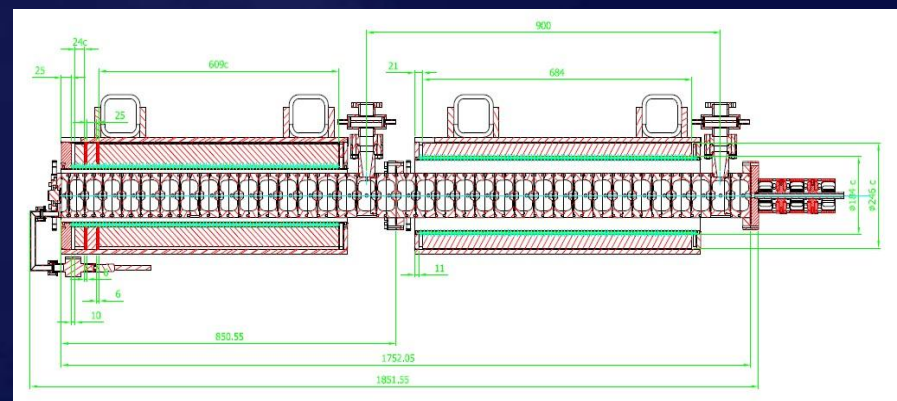
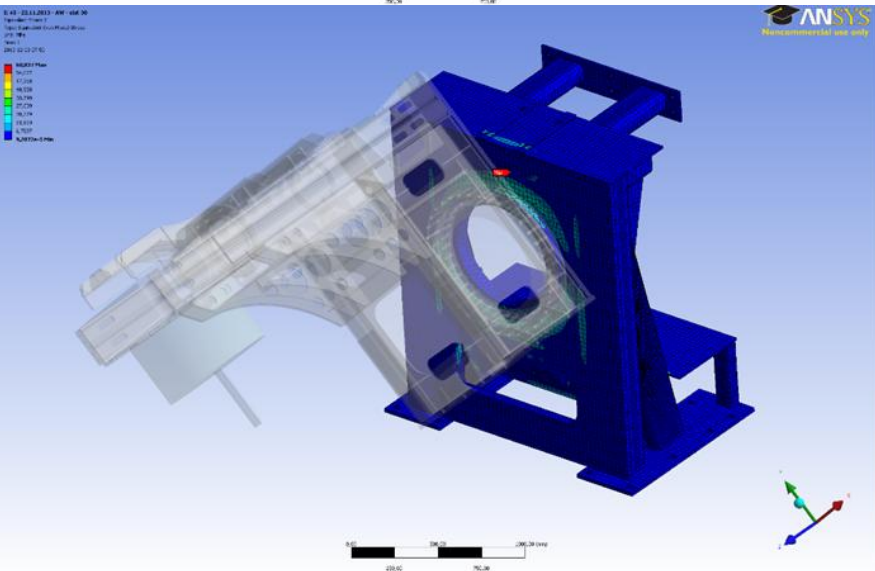
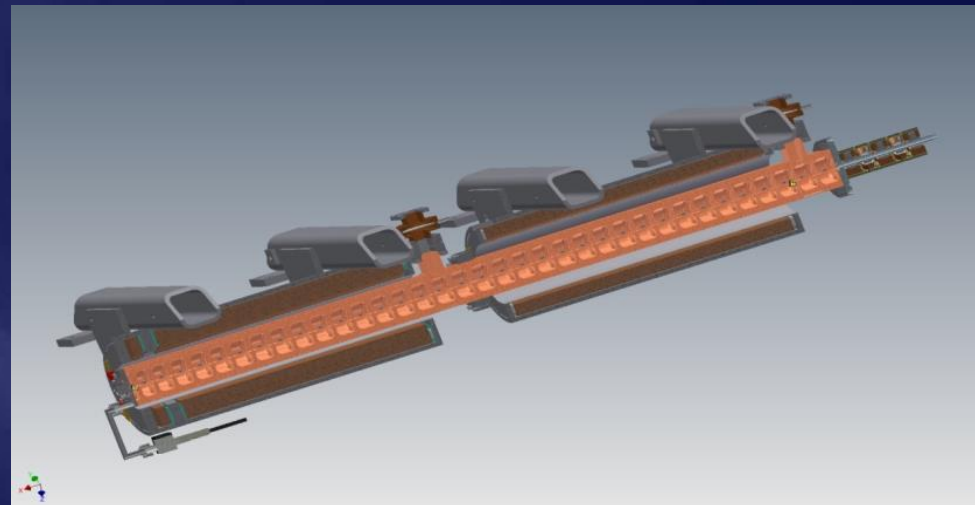
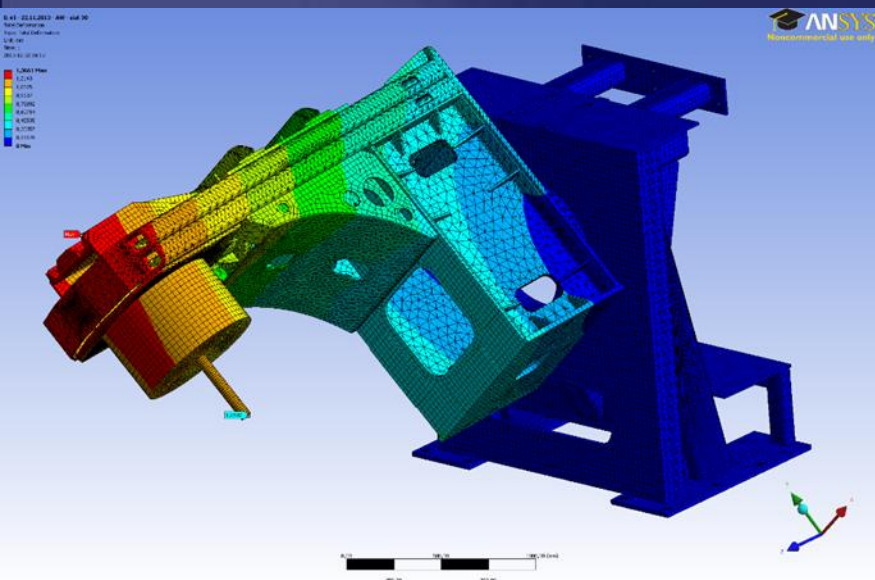


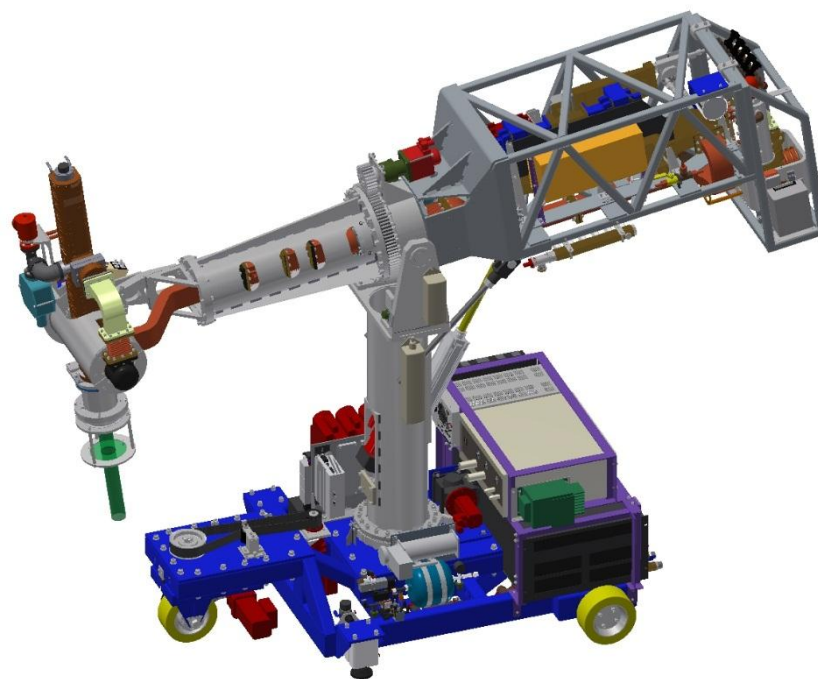
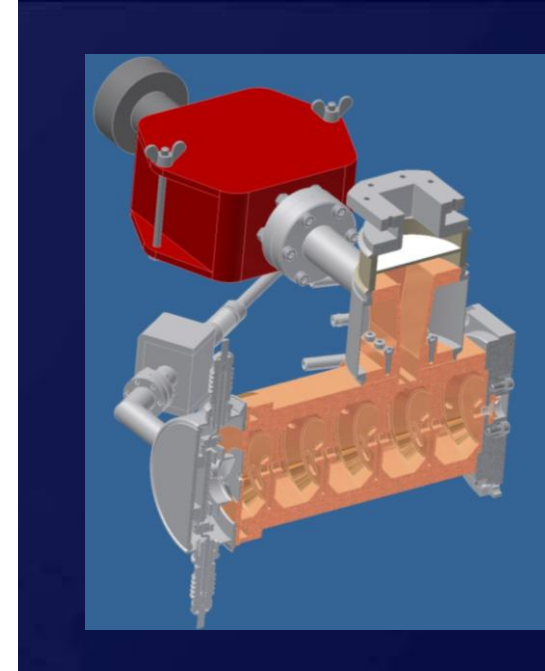
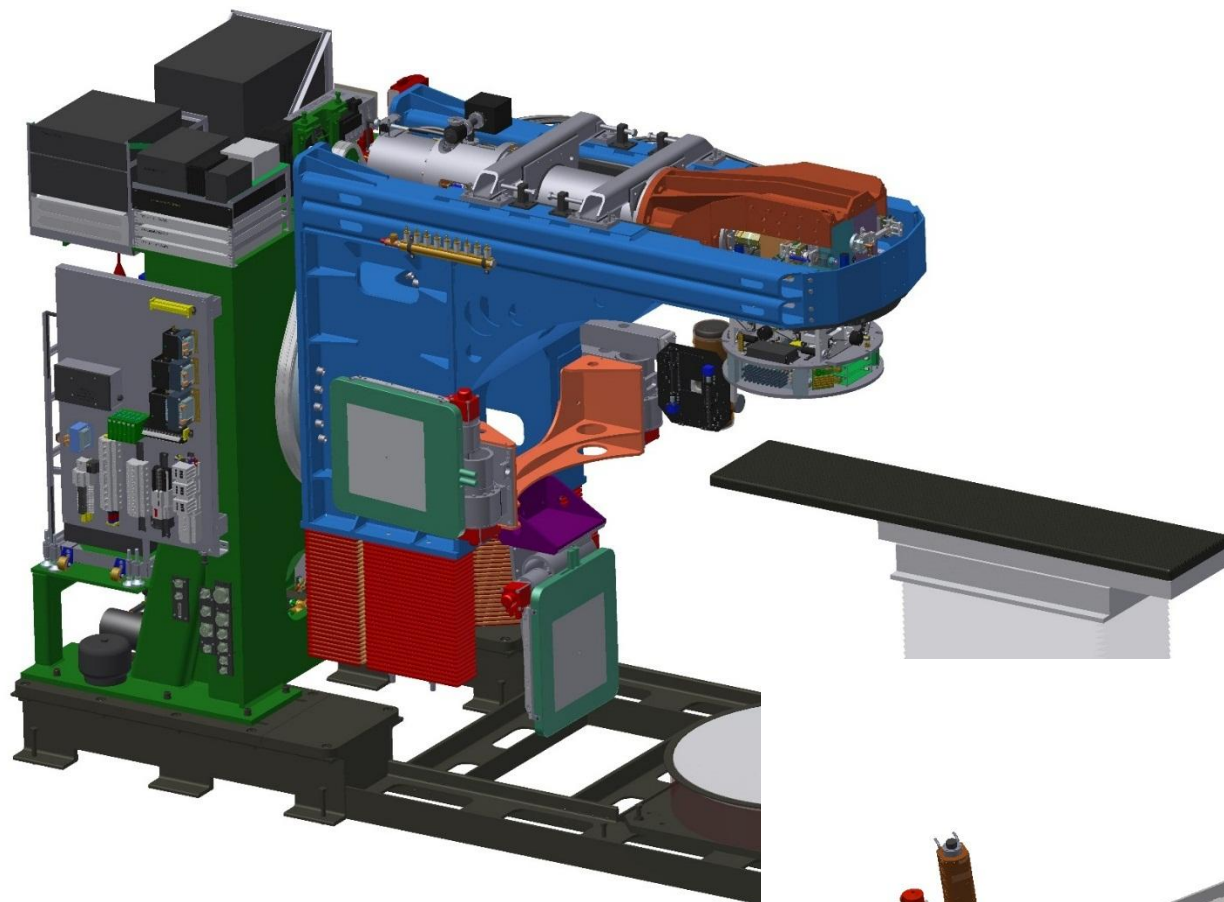
- ▣ One of the biggest scientific institute in Poland
- ▣ 1000+ team
- ▣ Accelerator activity:
 - calculations,
 - design,
 - advanced technologies /vacuum, HV, RF/,
 - Manufacturing /machining, brazing/,
 - installations
 - service & maintenance

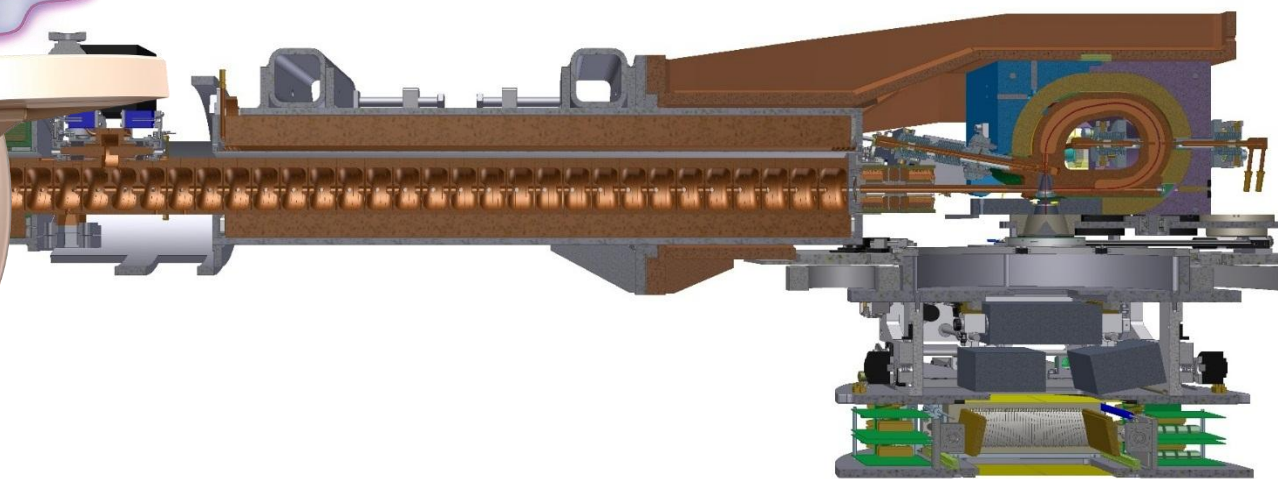
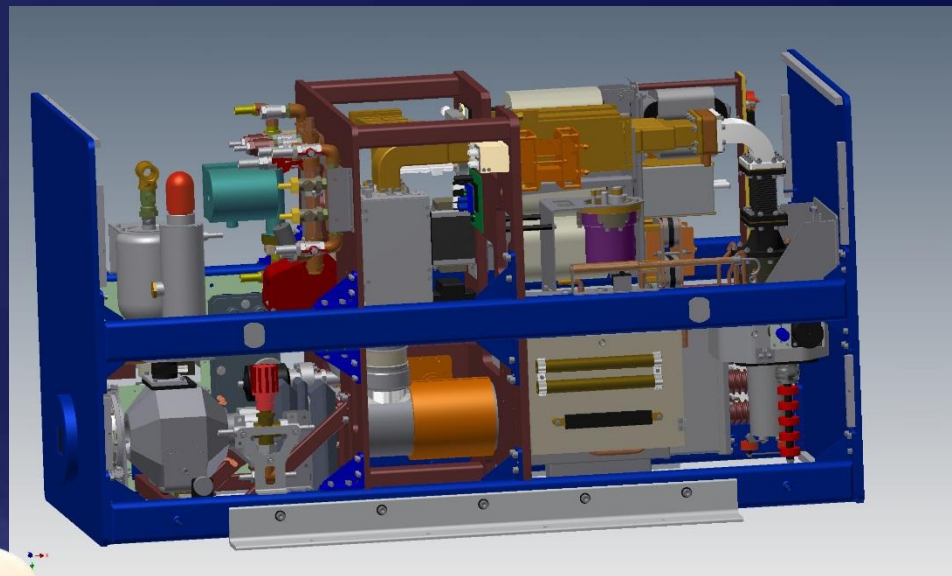
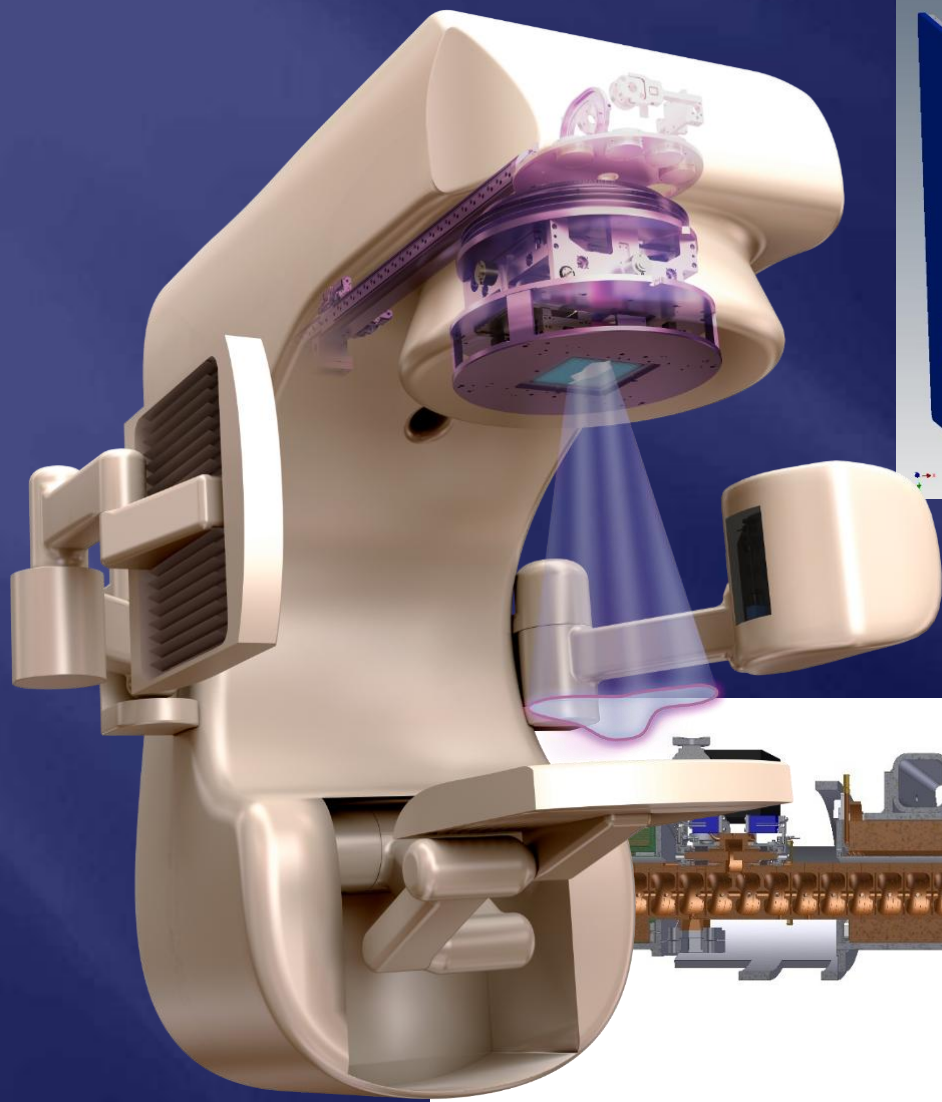
Calculations

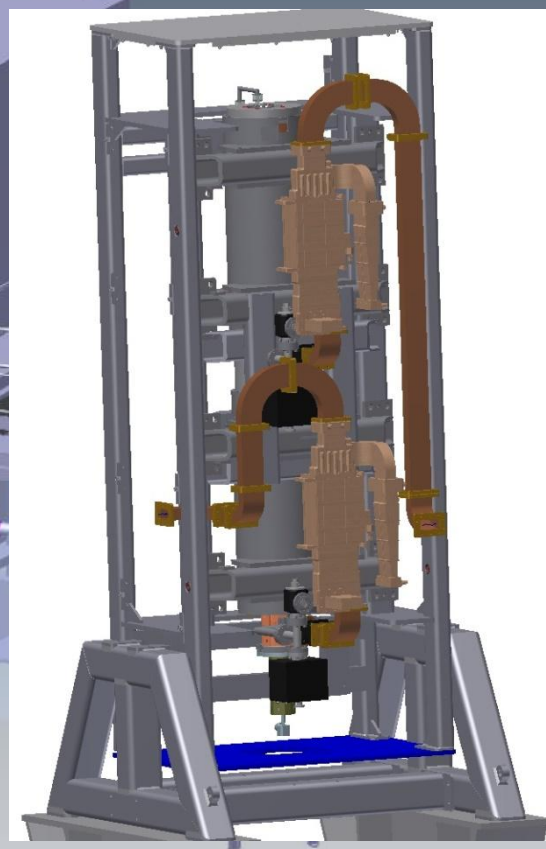
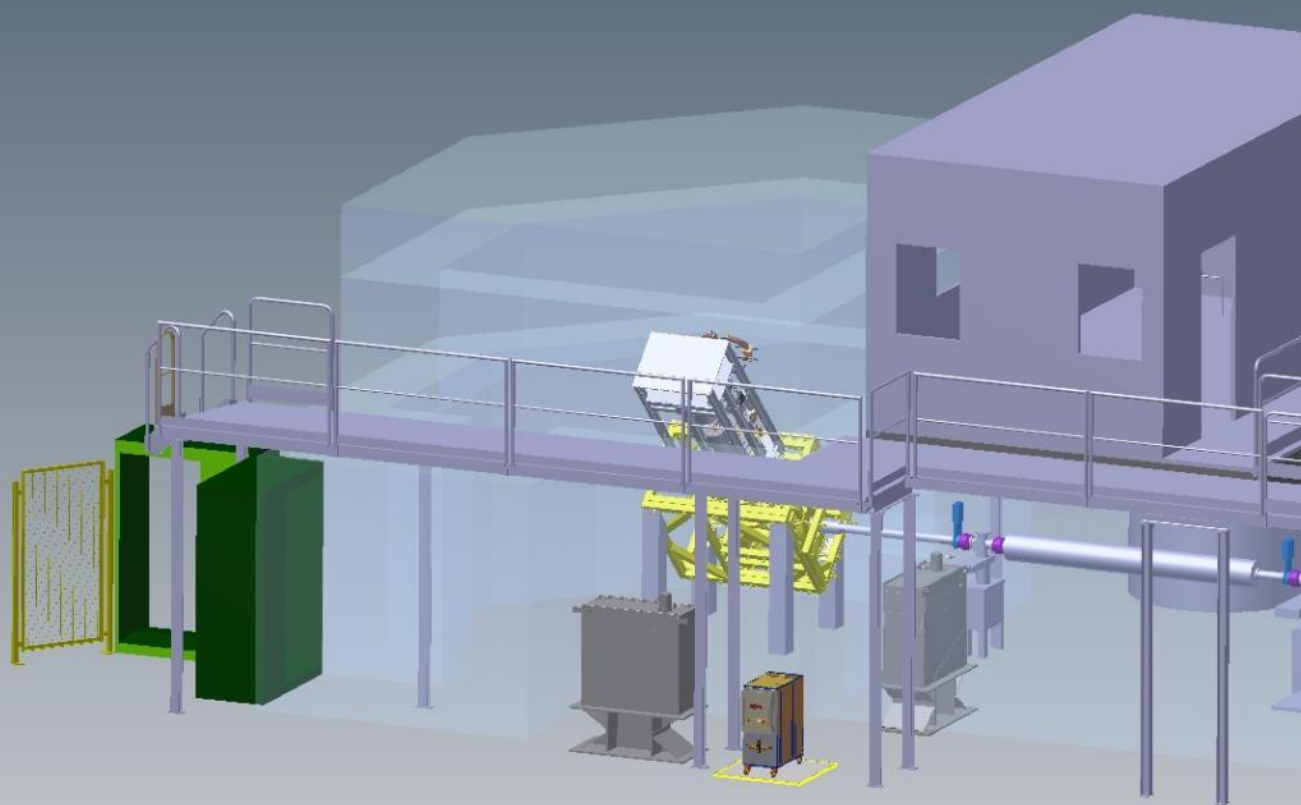


Design









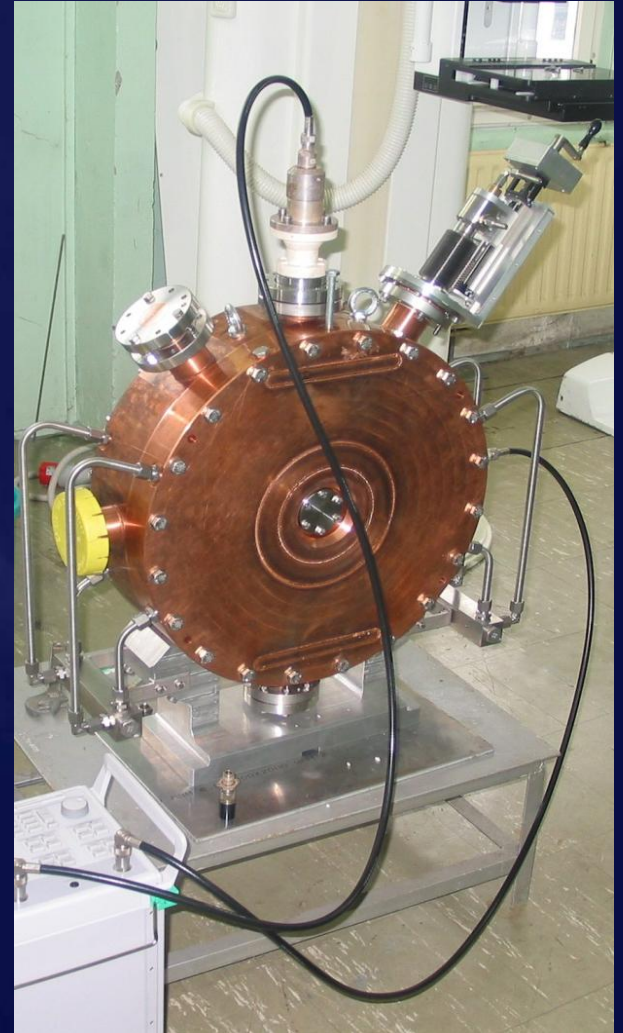
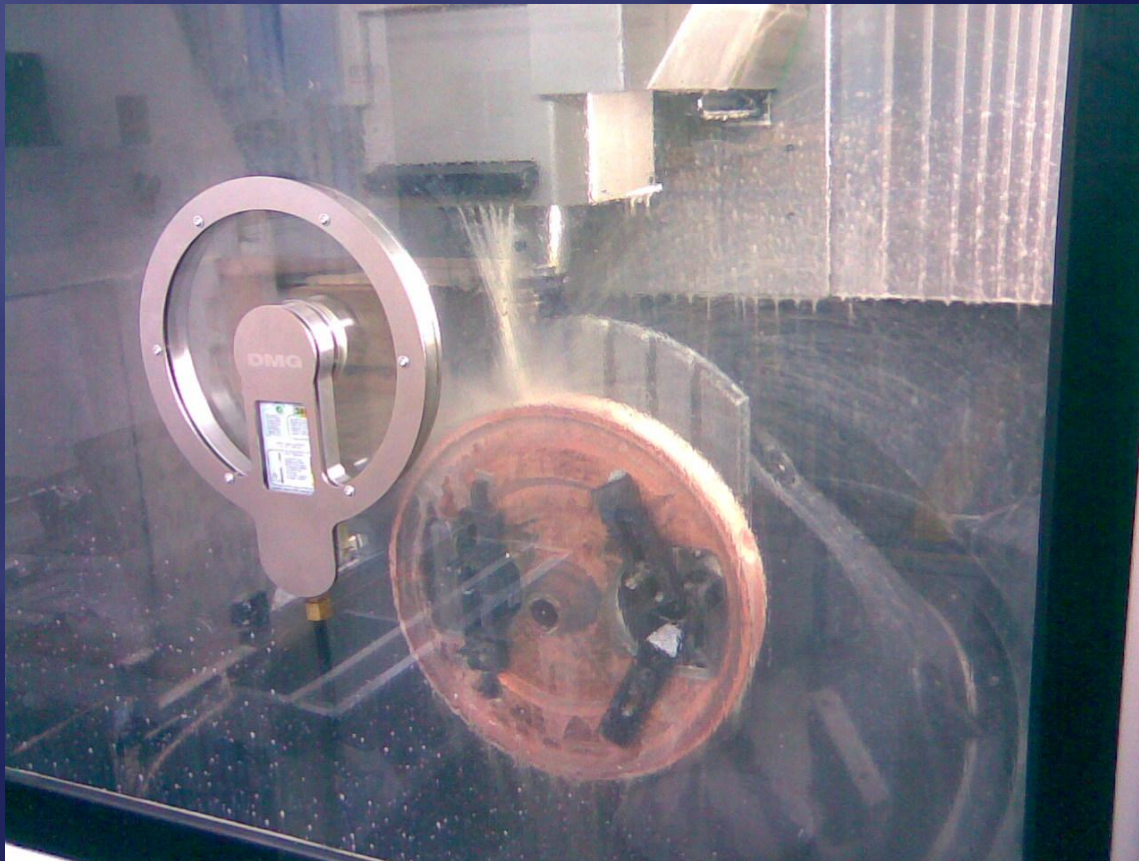


The machines:

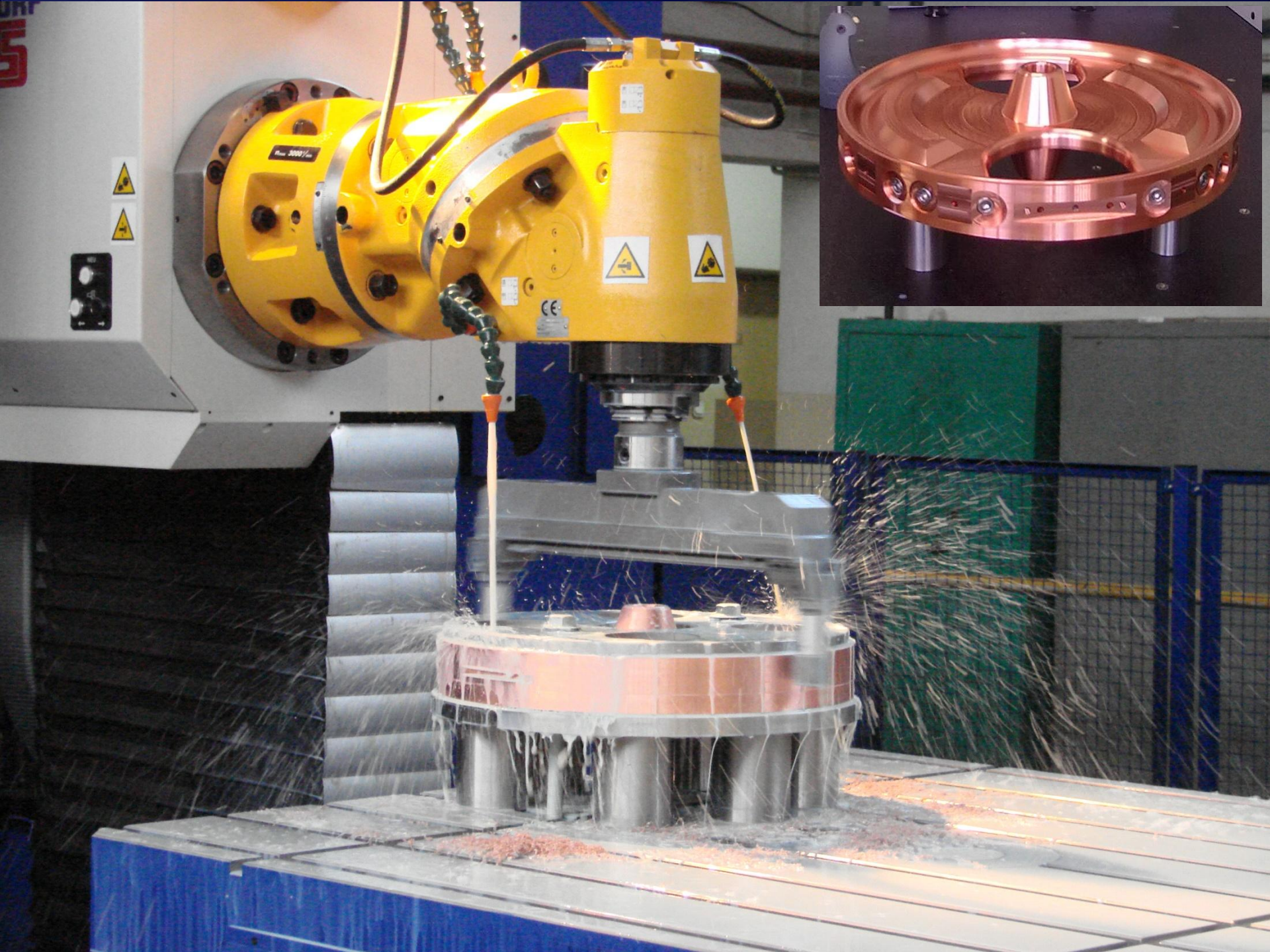


Manufacturing

▣ CERN

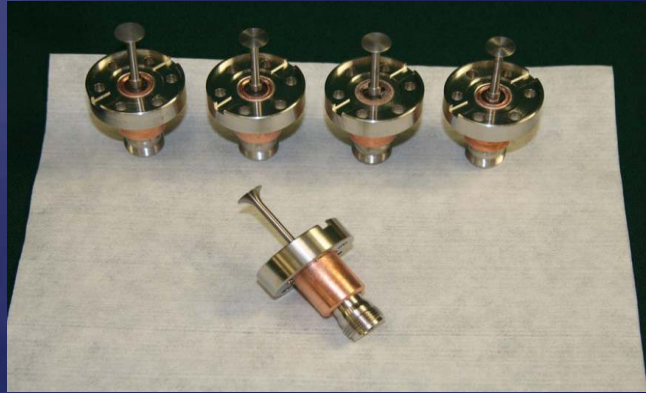






Manufacturing

▣ XFEL

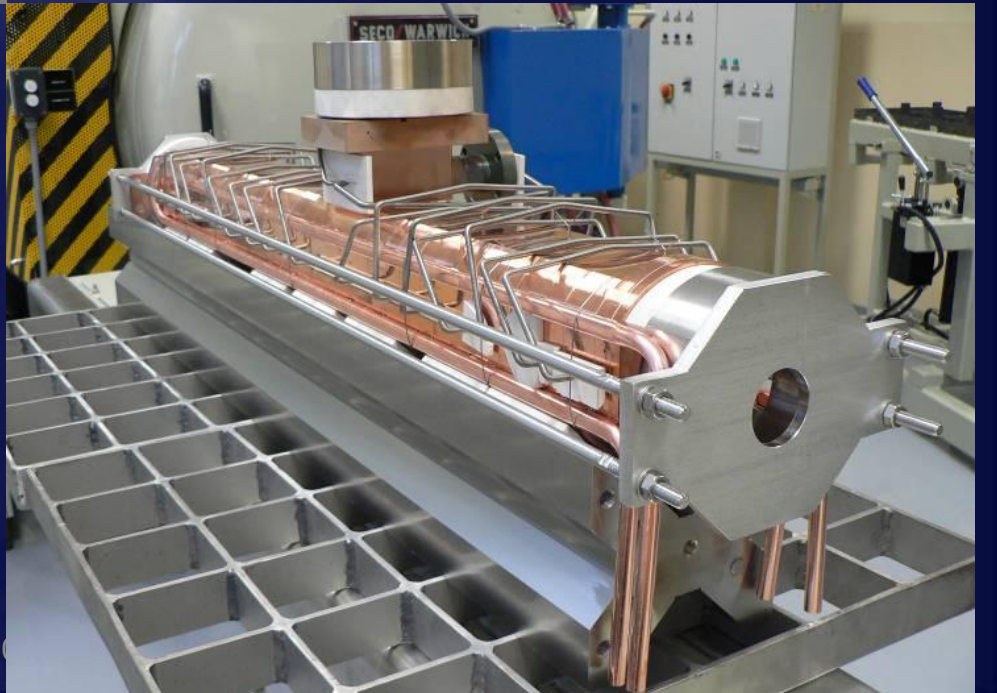
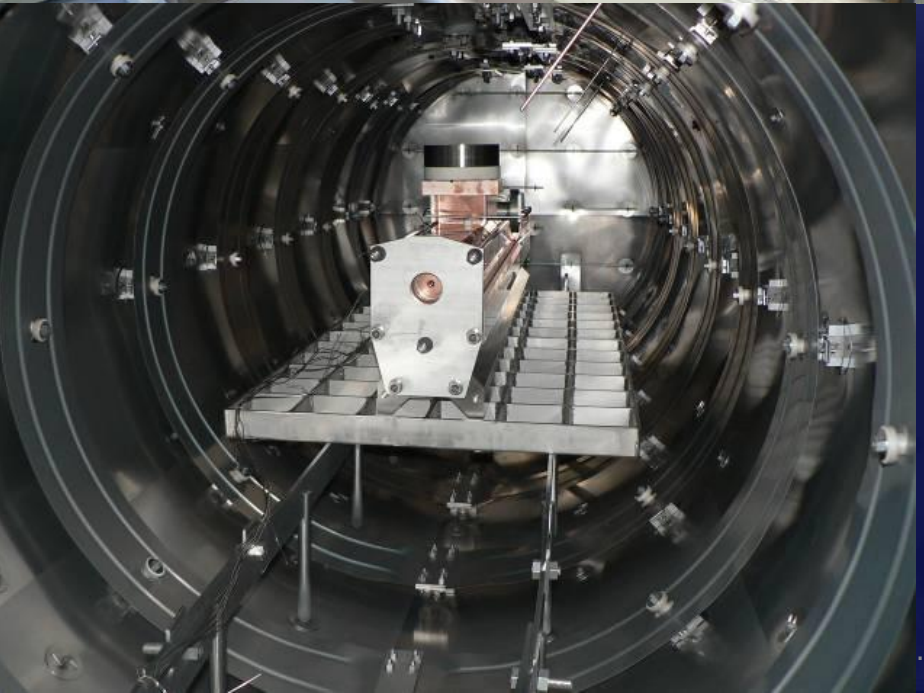
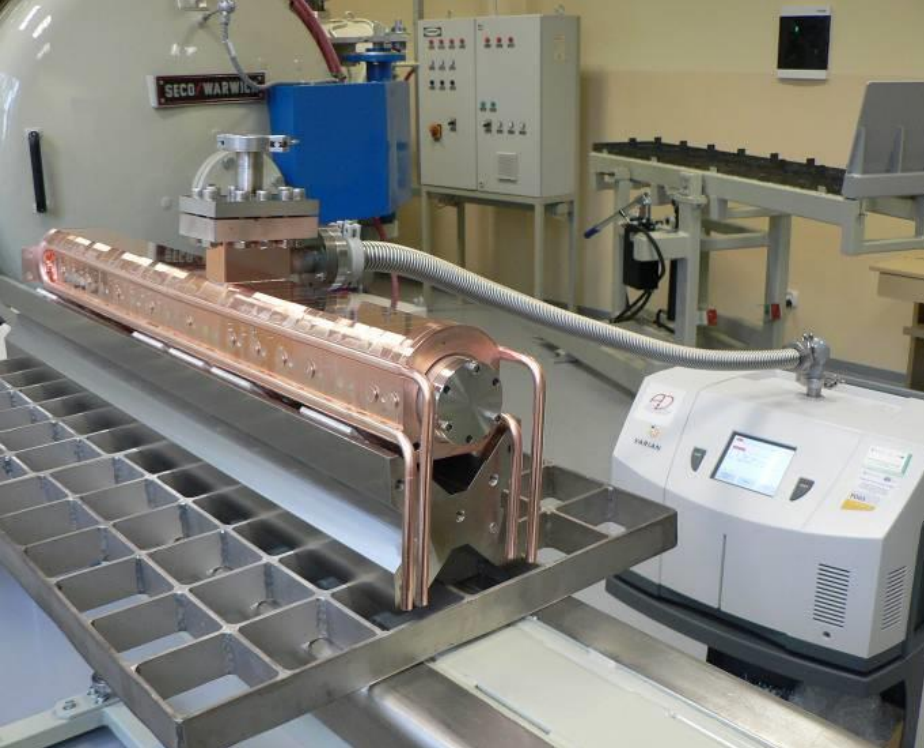


Superconducting coaxial niobium HOM antennae of HOM couplers

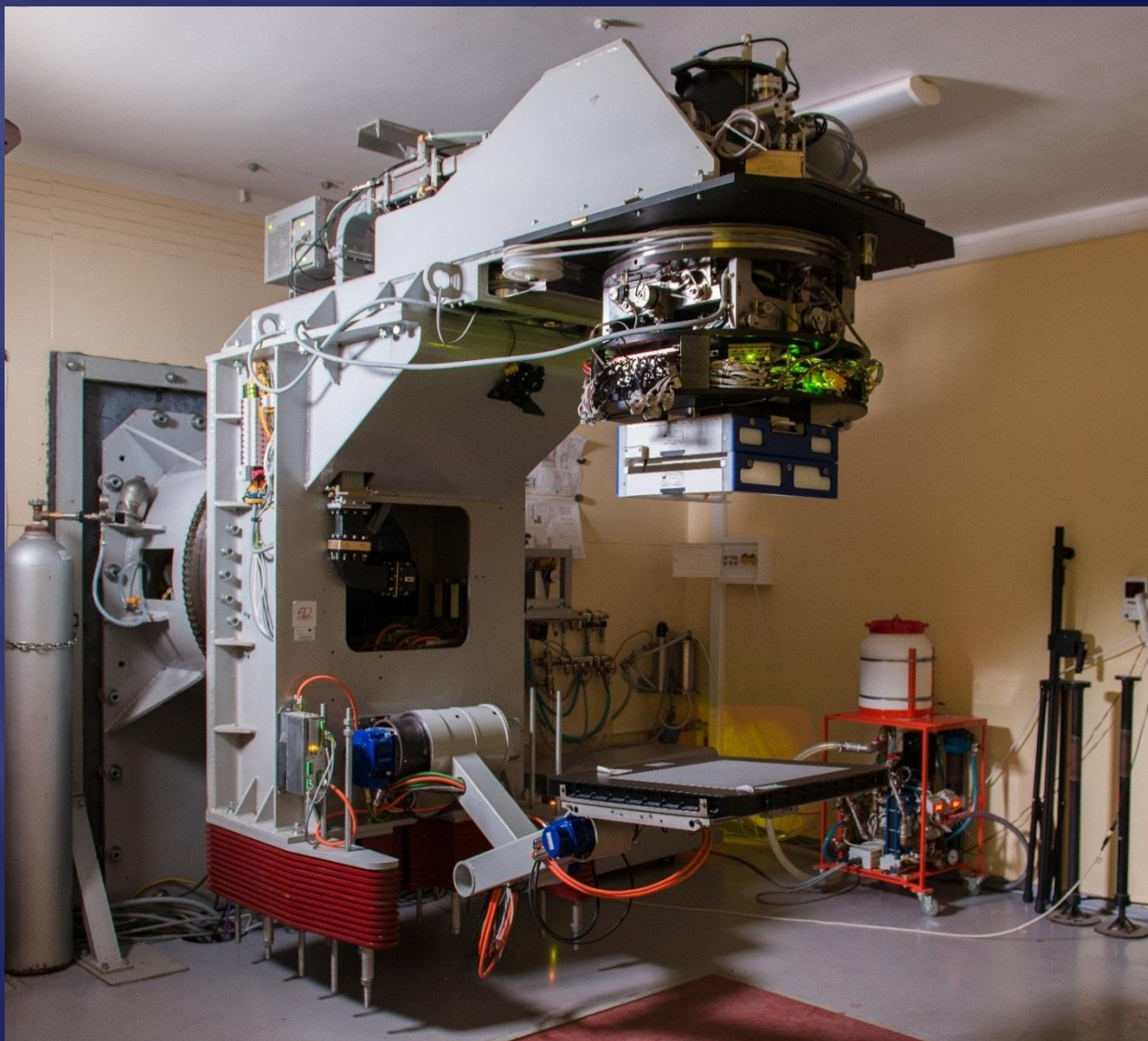


HOM travelling mode absorber















Shielding

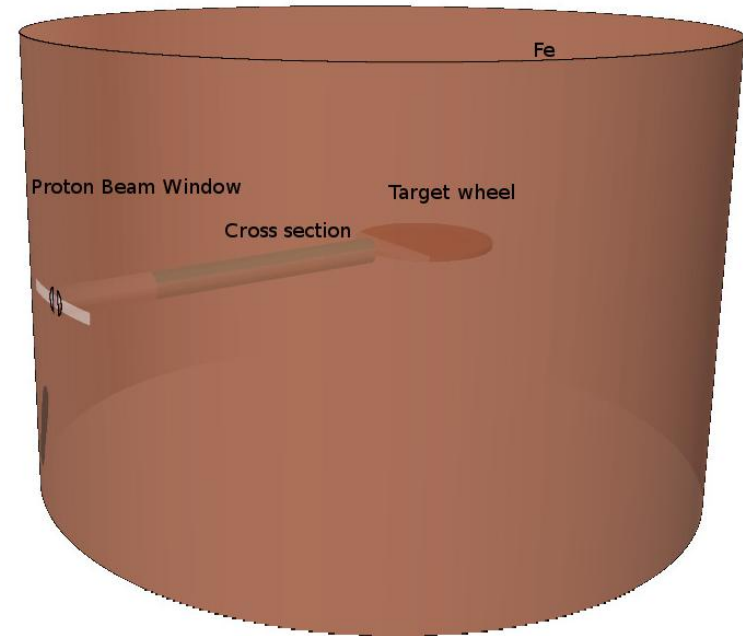


NCBJ for ESS

▣ Collimators (HEBT)



Collimator



Quadrupoles



Collimators

Possible IKC

- ▣ Participation in design
- ▣ Collimators /fixed and mobile, turn-key/
- ▣ Warm cavities
- ▣ Warm magnets
- ▣ Vacuum system
- ▣ Mechanical components/supports, **shielding**
- ▣ Dedicated manipulators for linac and/or detectors
- ▣ BPMs
- ▣ Installation, RadProt