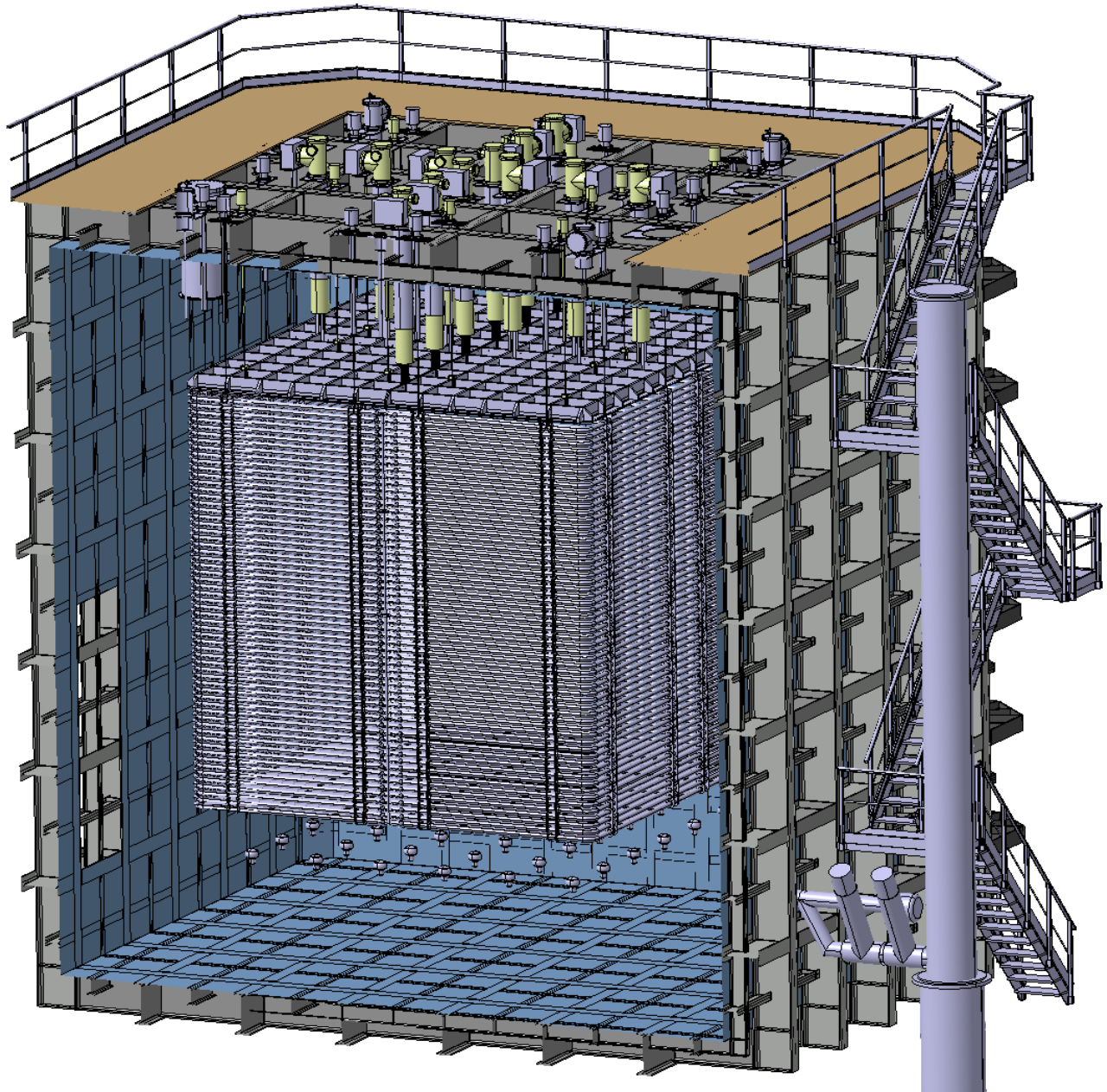
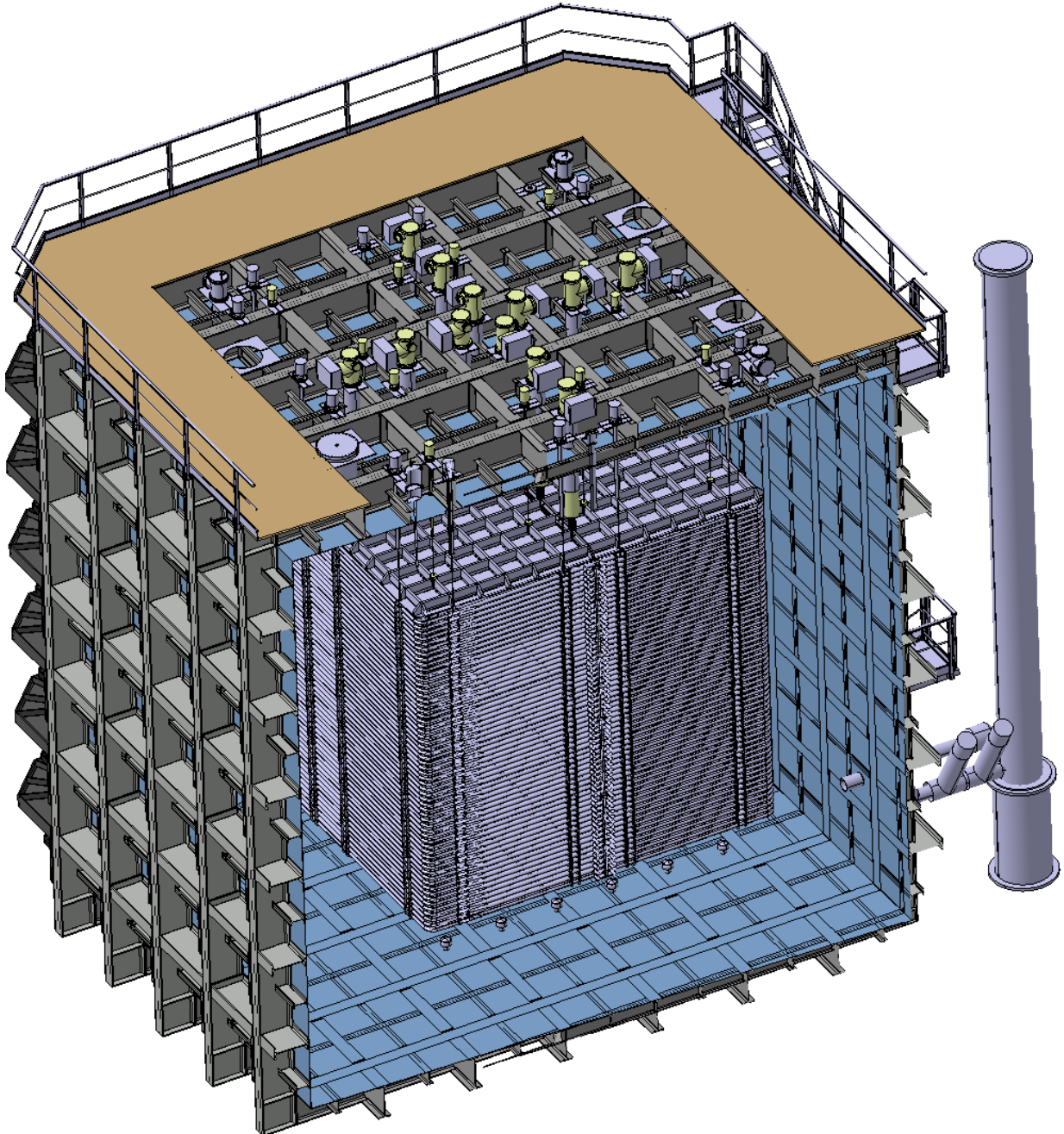
CRYOSTATS DESIGN

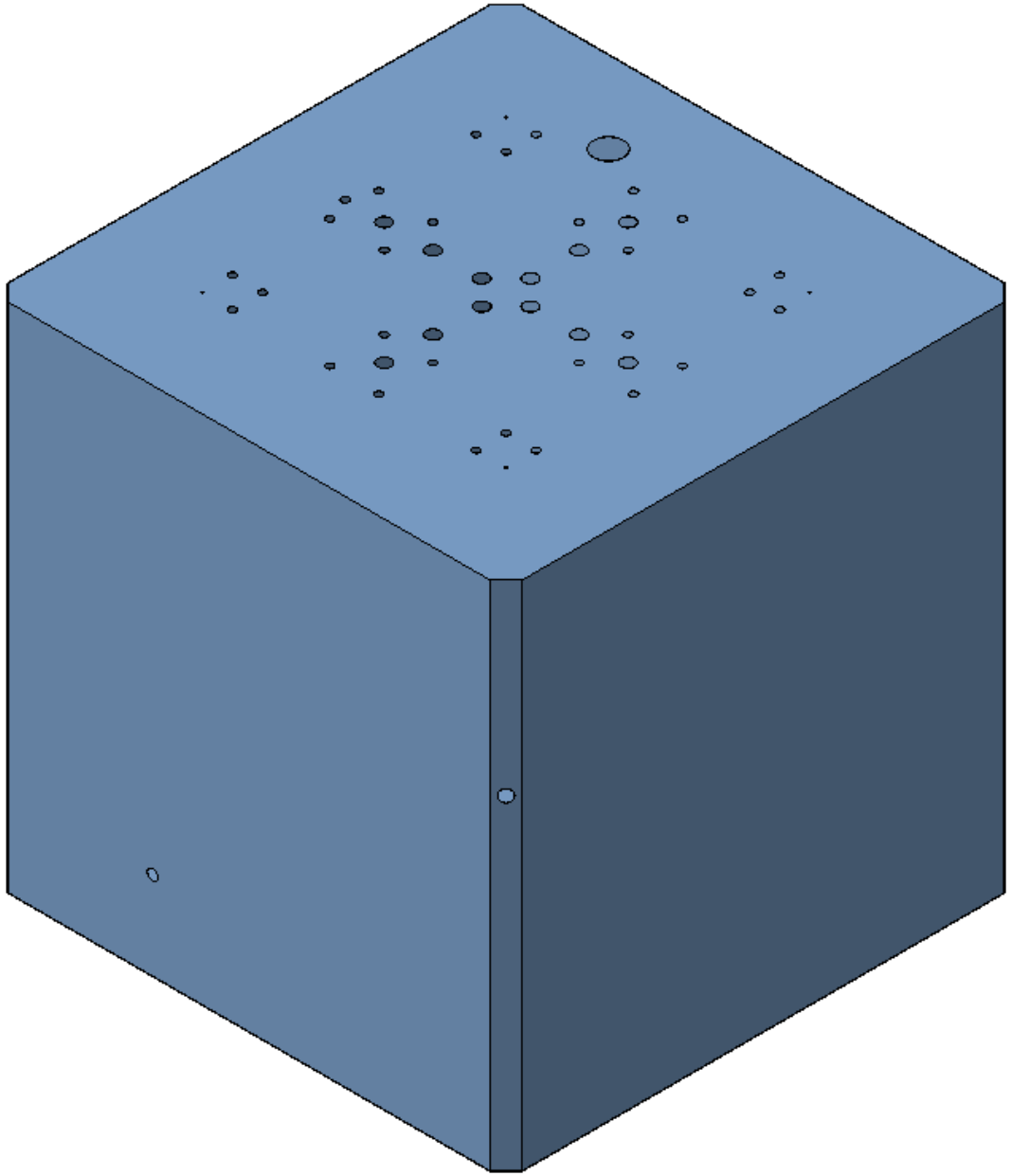
WA105 – Cryostat Cut-out

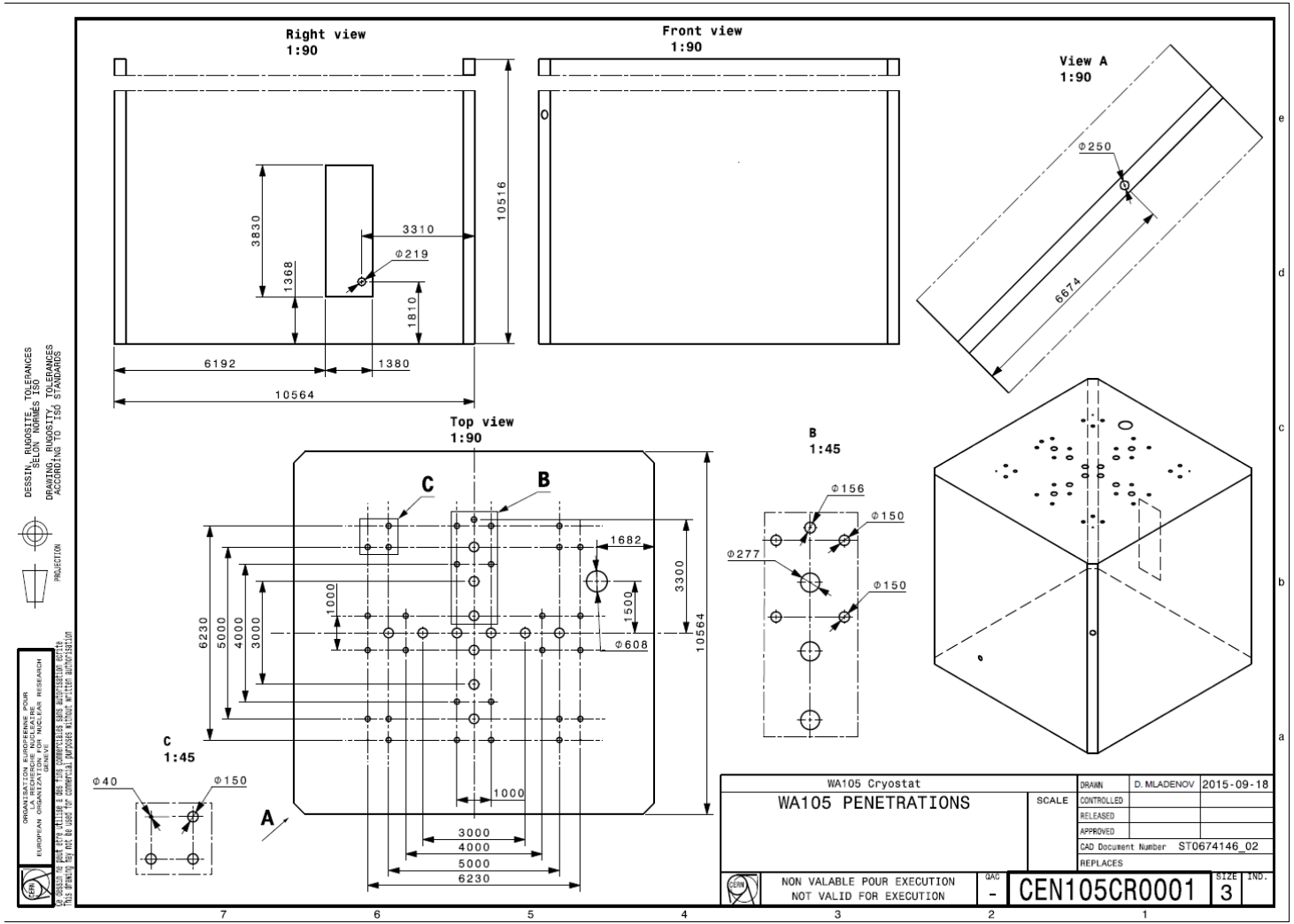


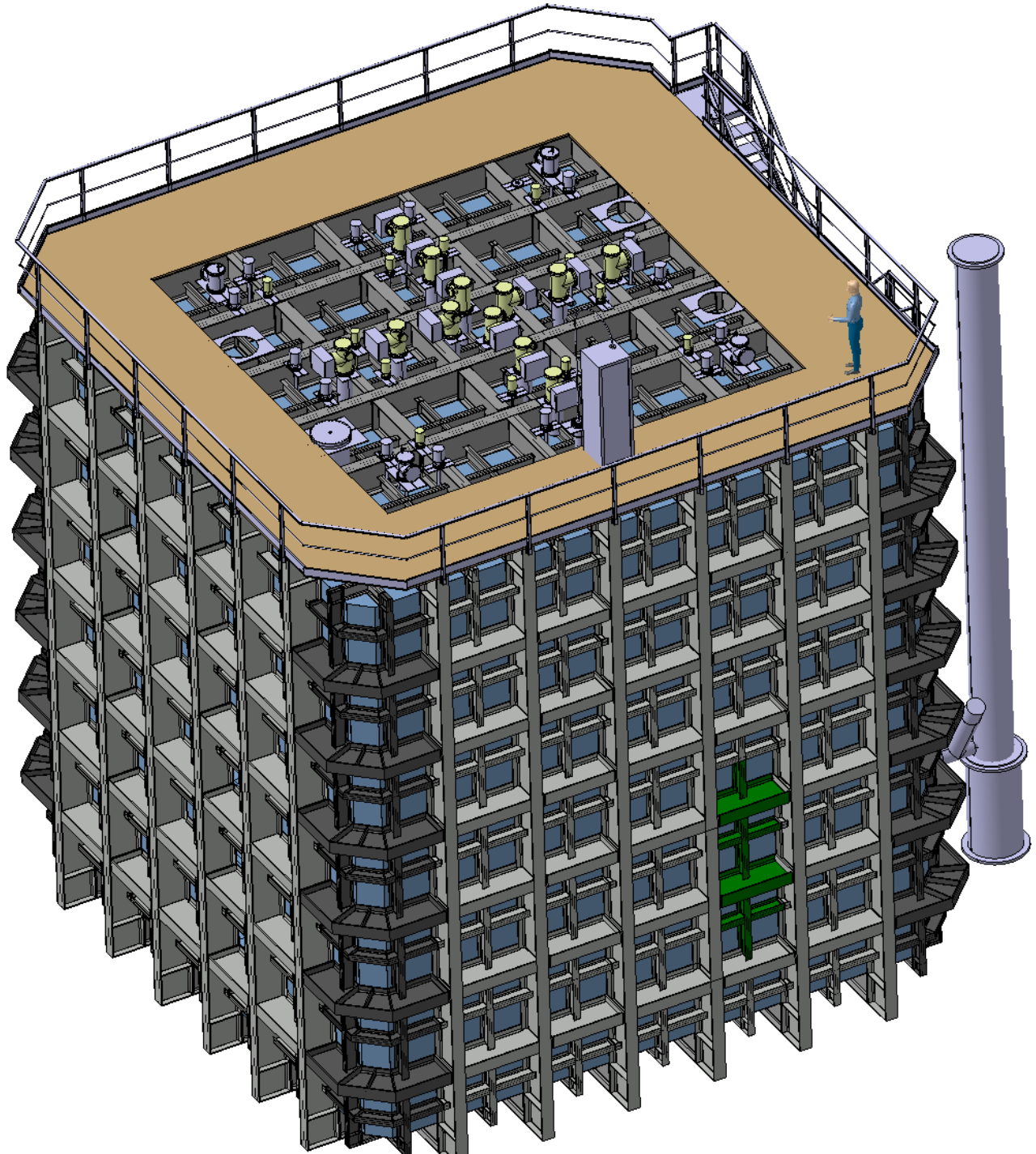


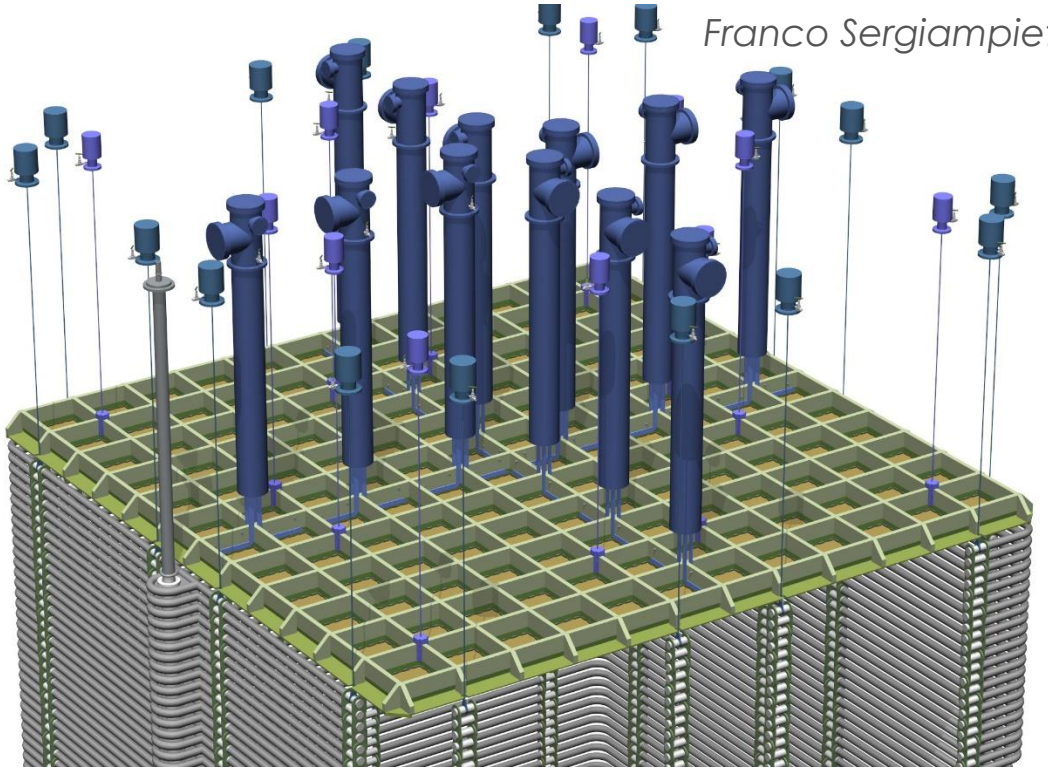
WA105 – external walls penetrations & GTT

All the information needed has been sent this morning to GTT, and they have started the engineering study on their side for ENH1-WA105.
They will also check the heat loss at 1000mm of insulation (5W/m² as at b. 182)







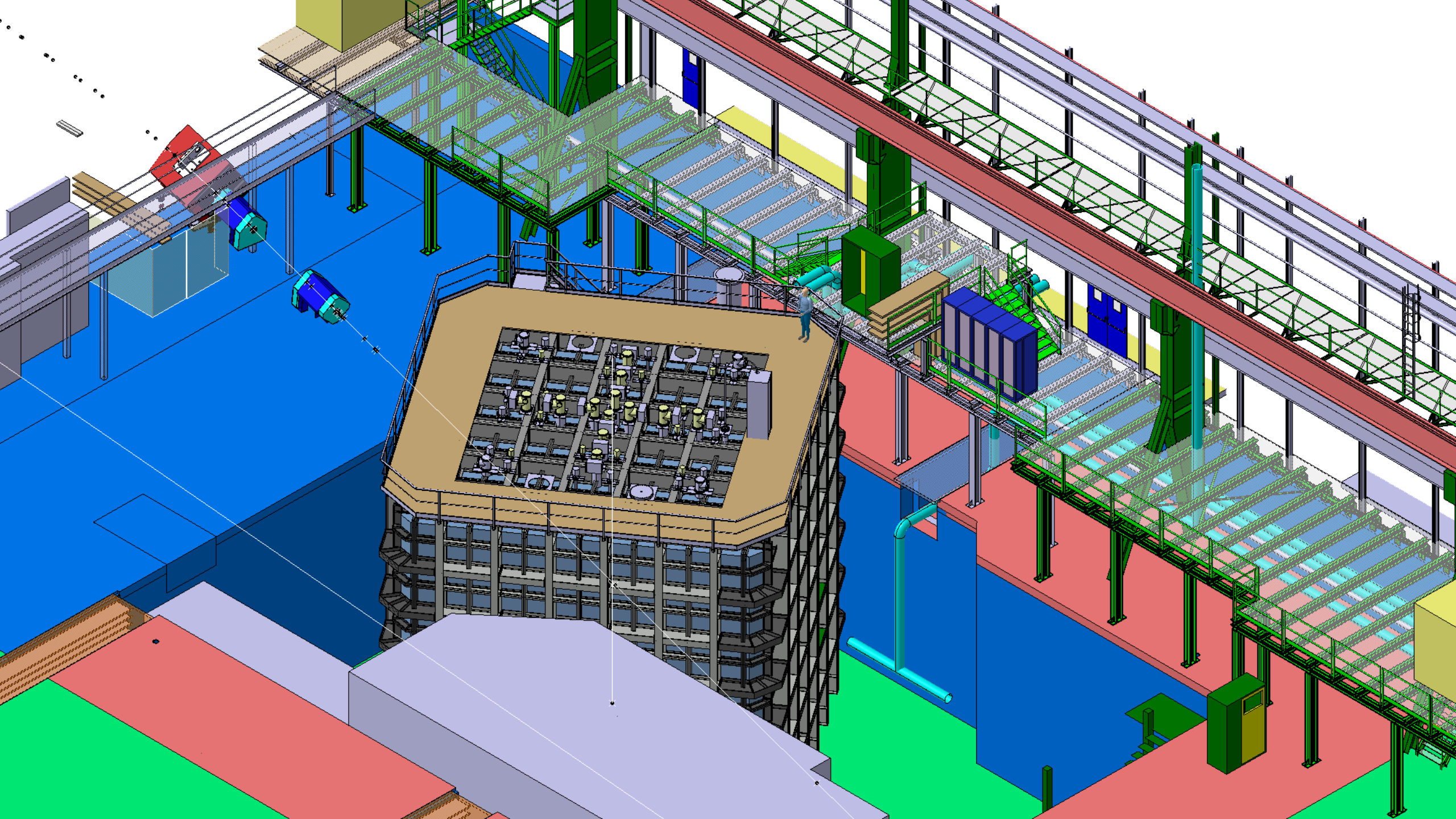


Franco Sergiampietri

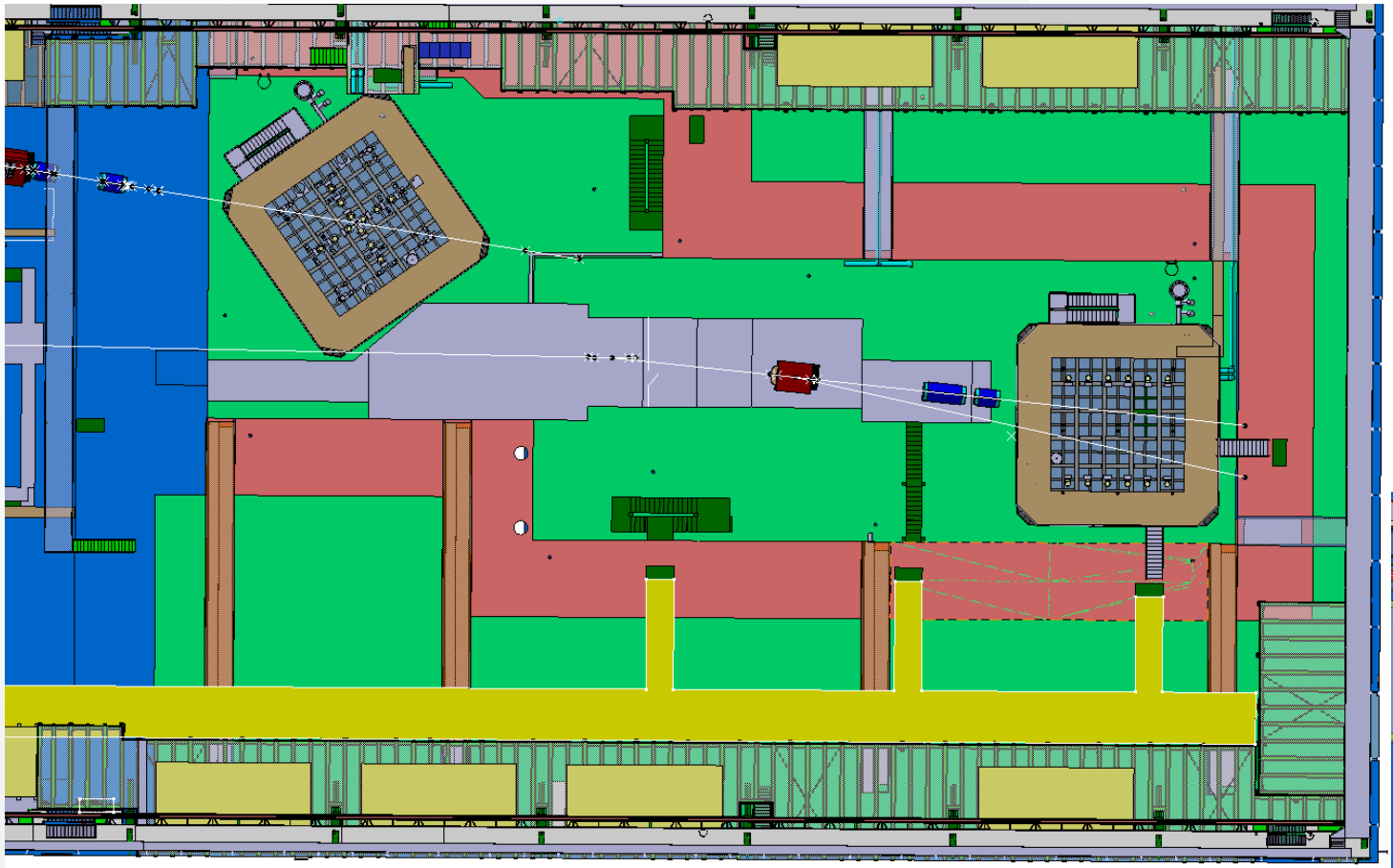
Integration of all the feedthroughs at the roof structure.
Closely working with Franco Sergiampietri.

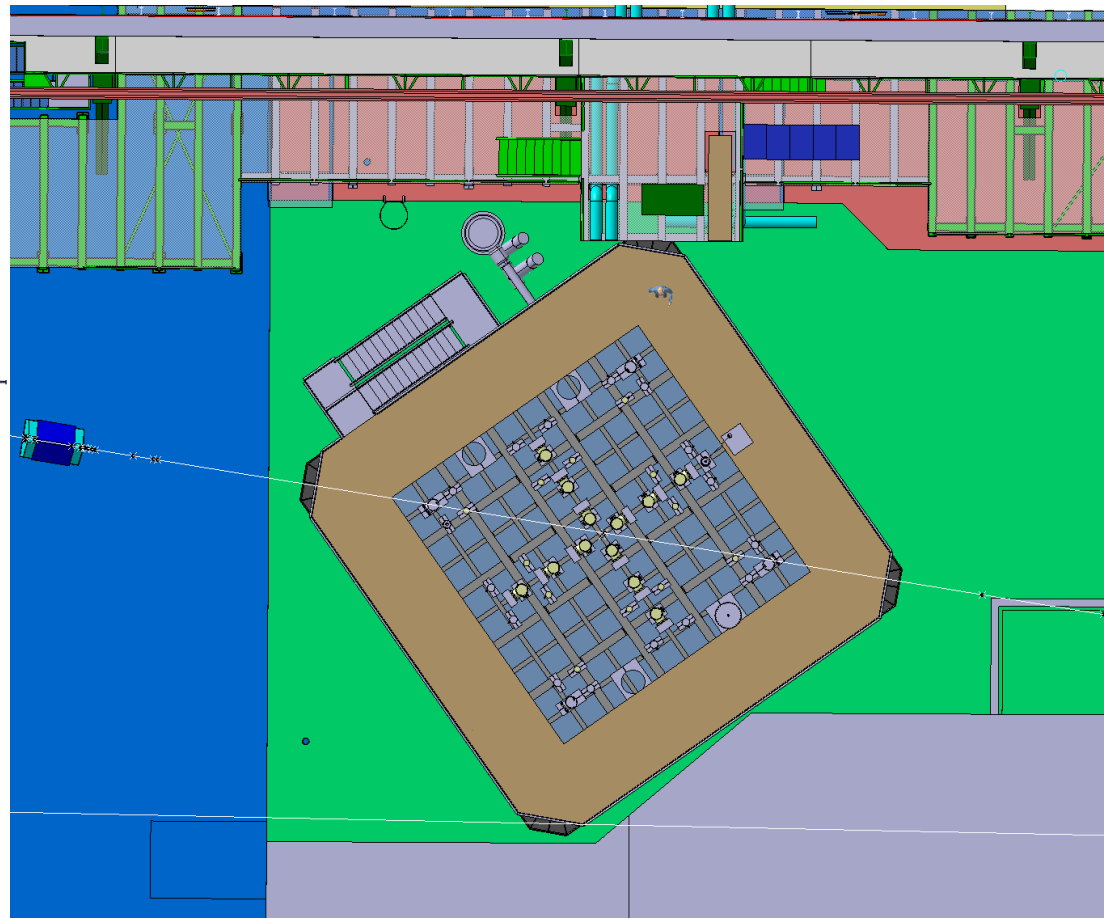
- *12 x Anode deck supports*
- *12 x Signal FT*
- *16 x Field Cage supports*
- *4 x Slow Control FT*
- *1 x High Voltage FT*
- *1 x Manhole*

Total: 46 roof penetrations



ENH1 - Layout



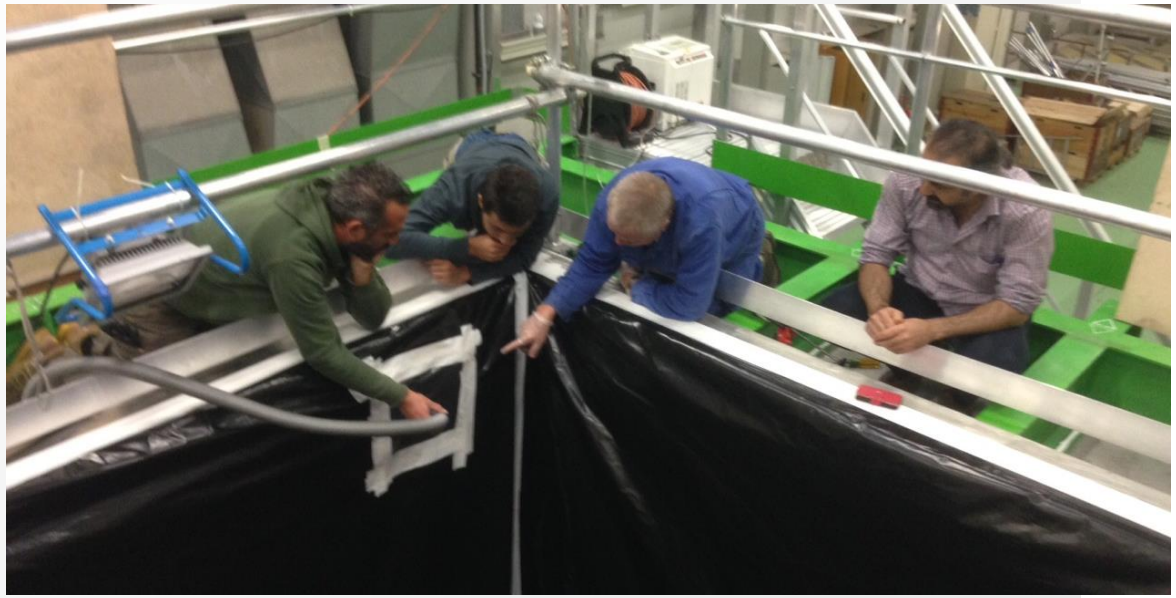


We are expecting to deliver the structure in ENH1 at the first half of next year and to do the final pre-assembly in the second half. The plan is to pre-assemble as much as possible and store complete walls in the existing building.

Investigating a possibility to start the mechanical work even before the building extension is ready.

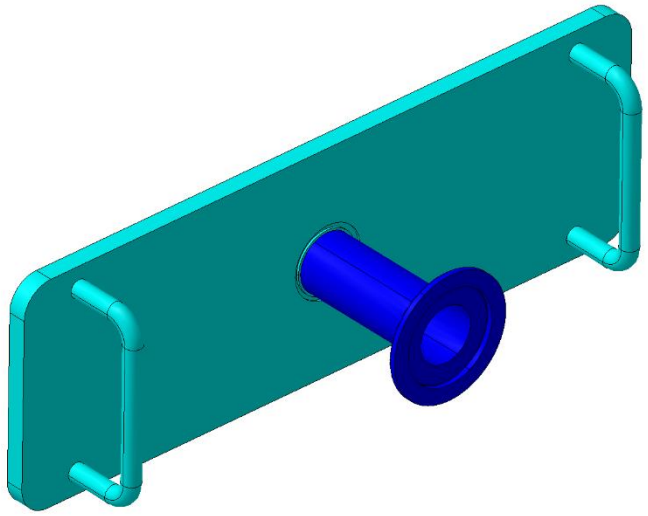
Currently working on the installation procedure in ENH1.

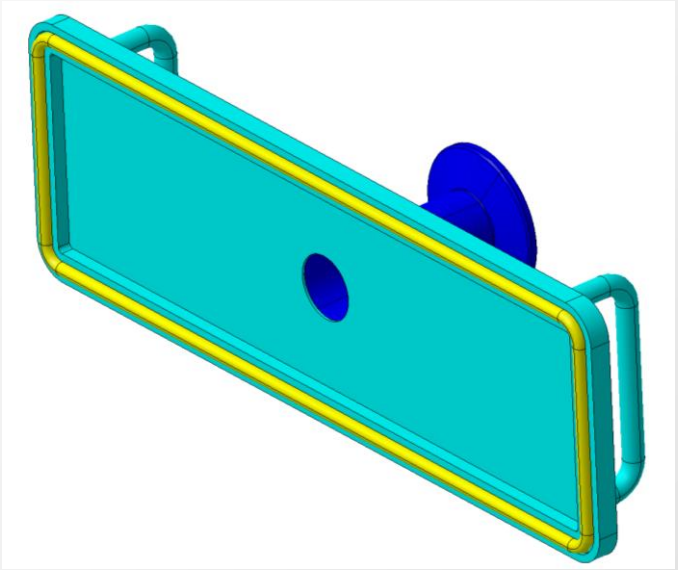
1x1x3 in b. 182



The detector installation additional structure for b. 182 to be delivered in the next 10 days.

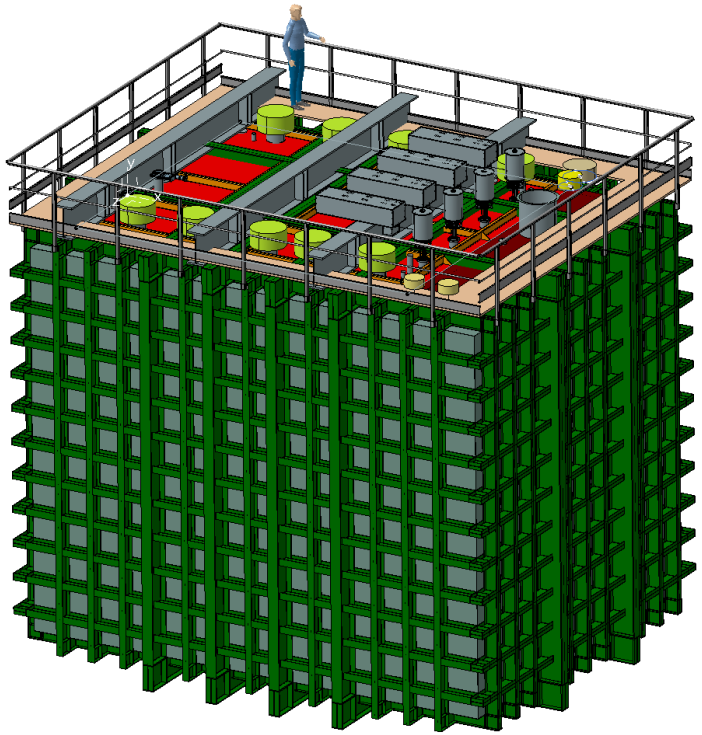
1x1x3 in b. 182

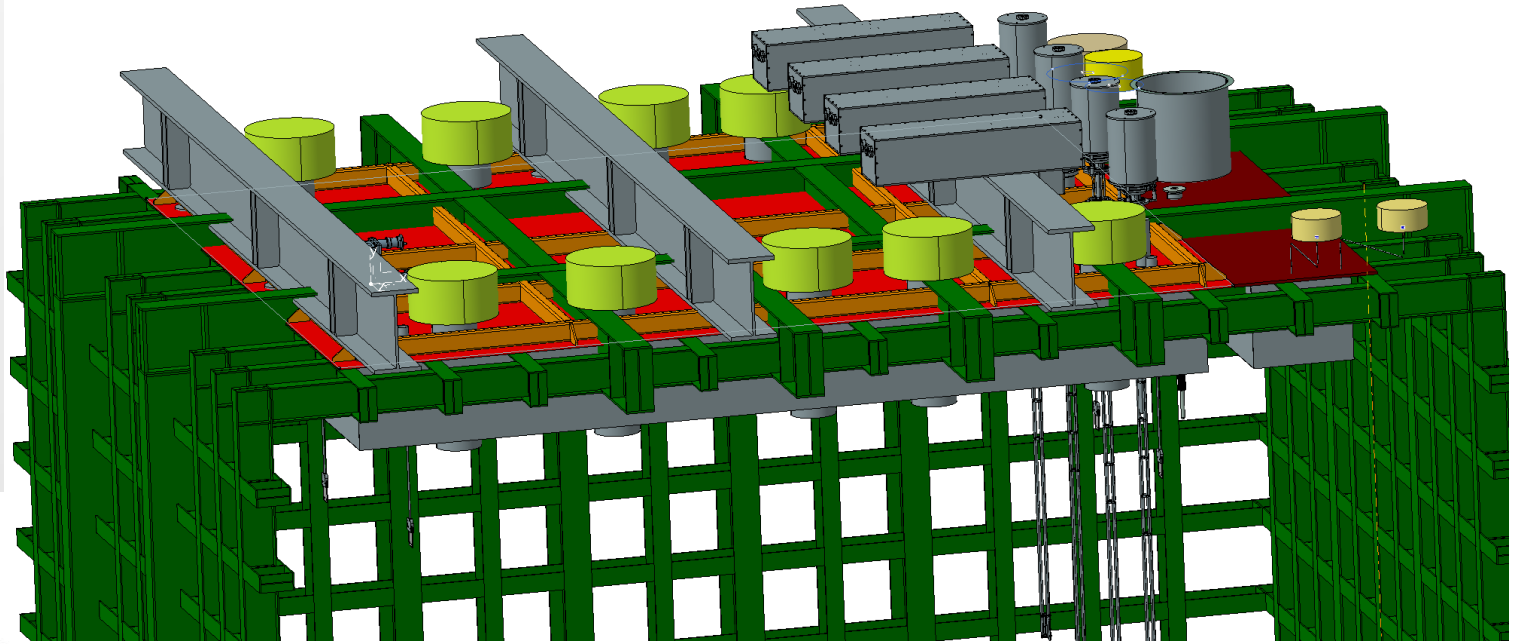


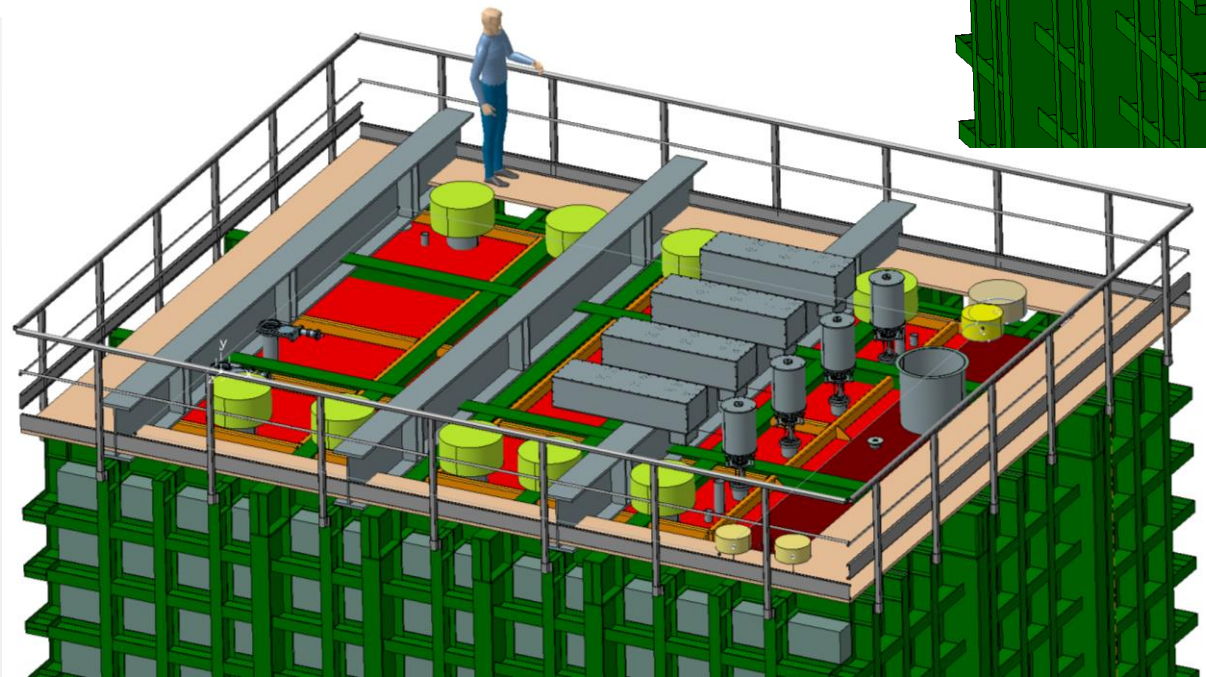


Vacuum Box leak detection

SBND

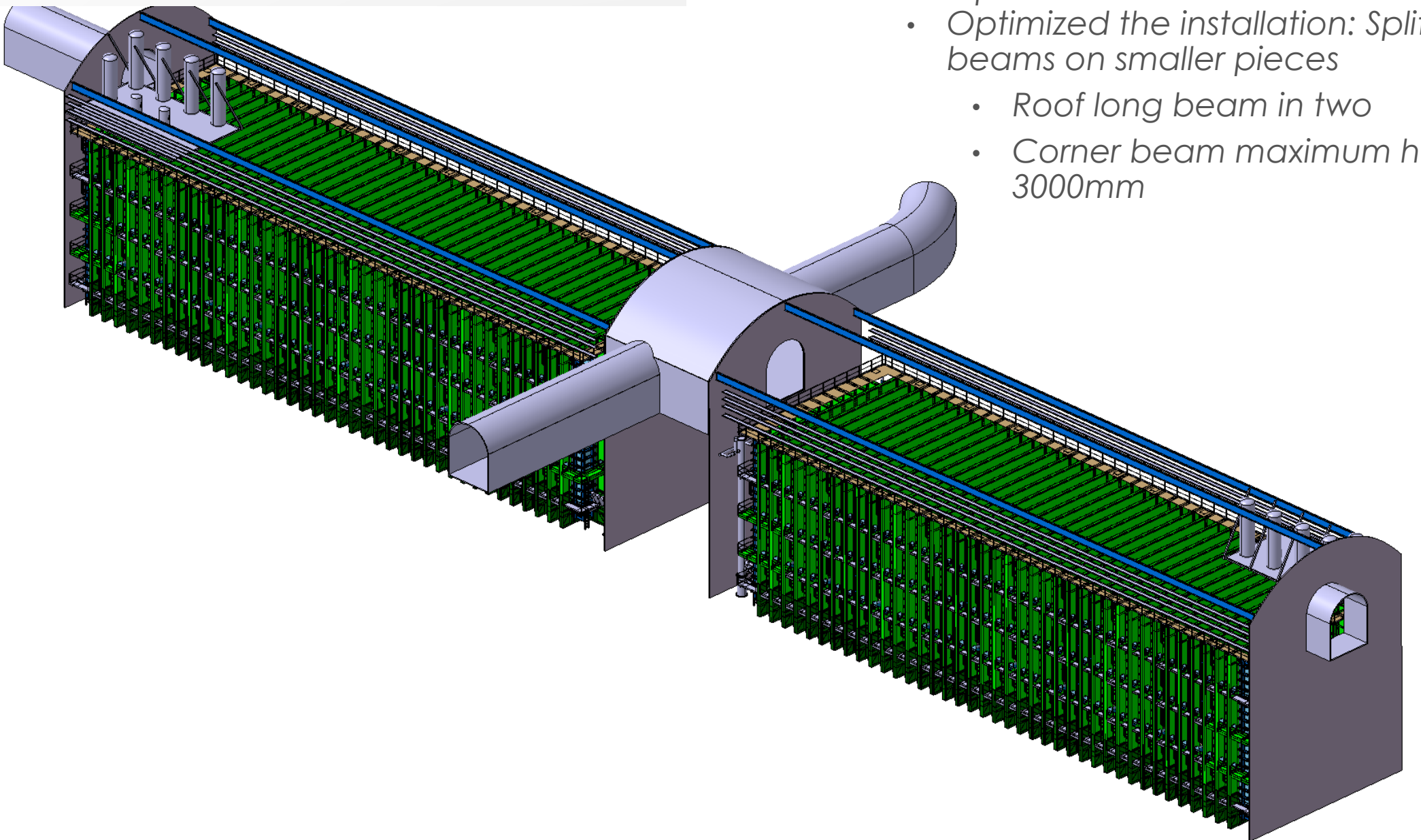






- *Integrating the top cap to the structure*

LBNF



- *Optimized the main beam – now HL1100M*
- *Optimized the installation: Splitting some beams on smaller pieces*
  - *Roof long beam in two*
  - *Corner beam maximum height of 3000mm*

Thank you!