

# NP02 Internal cable trays and sensors

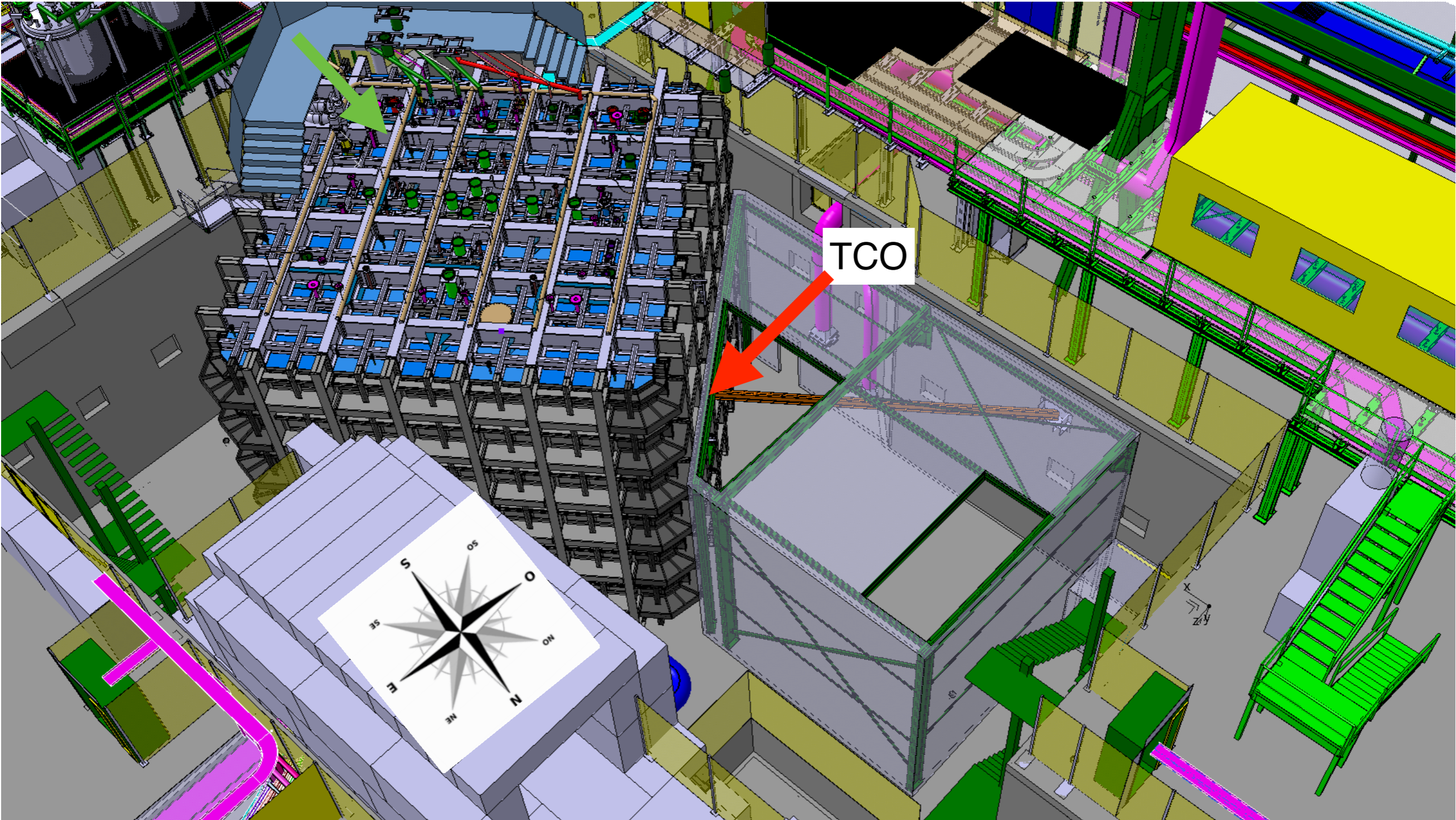
Aug 11 th 2017 - FINAL VERSION

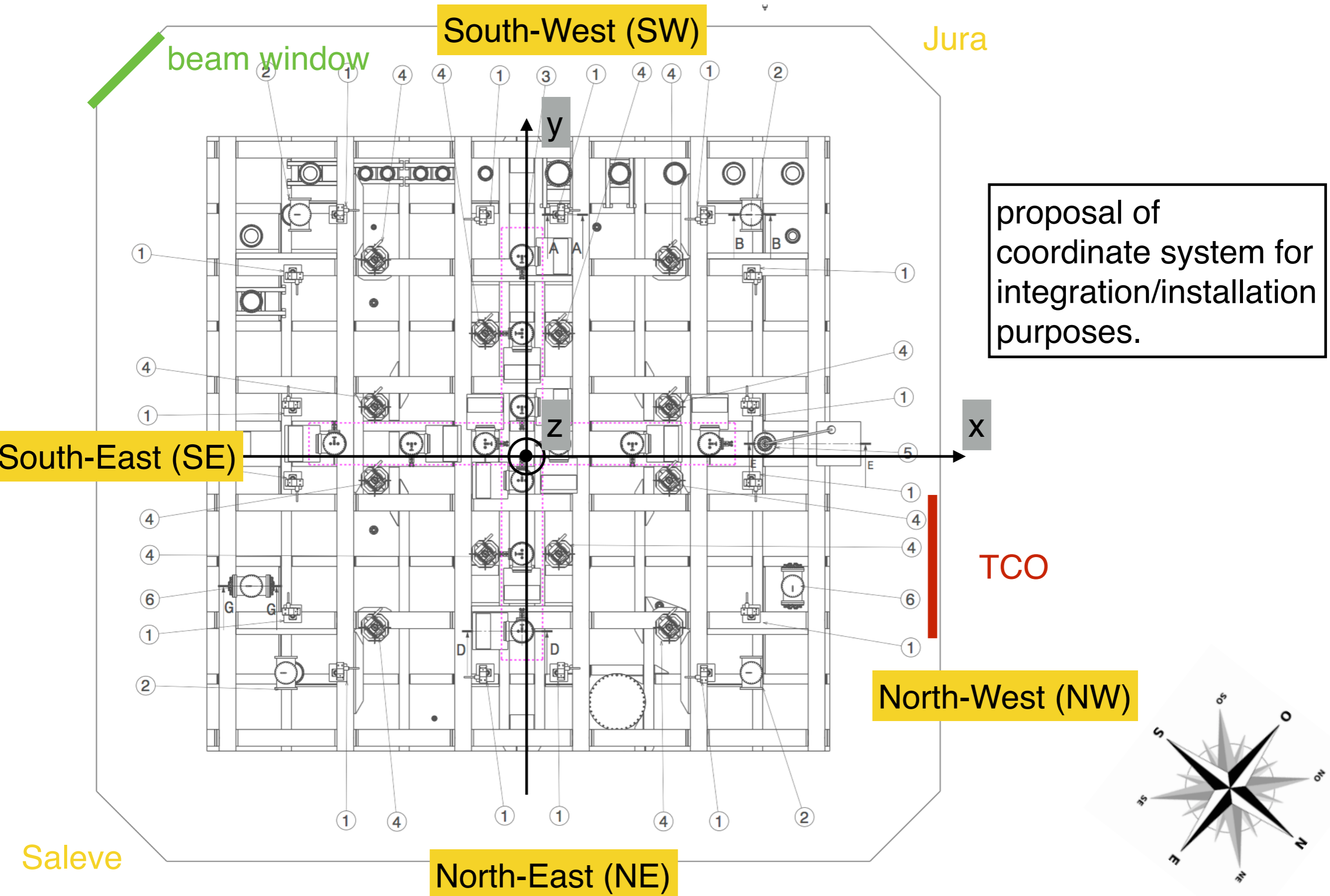
Updates since email circulated 2 weeks ago:

- Update on TANK\_INS flange see Roger drawings
- small modification on PMT cables (there was a mistake in initial version)
- remove cryostat heaters

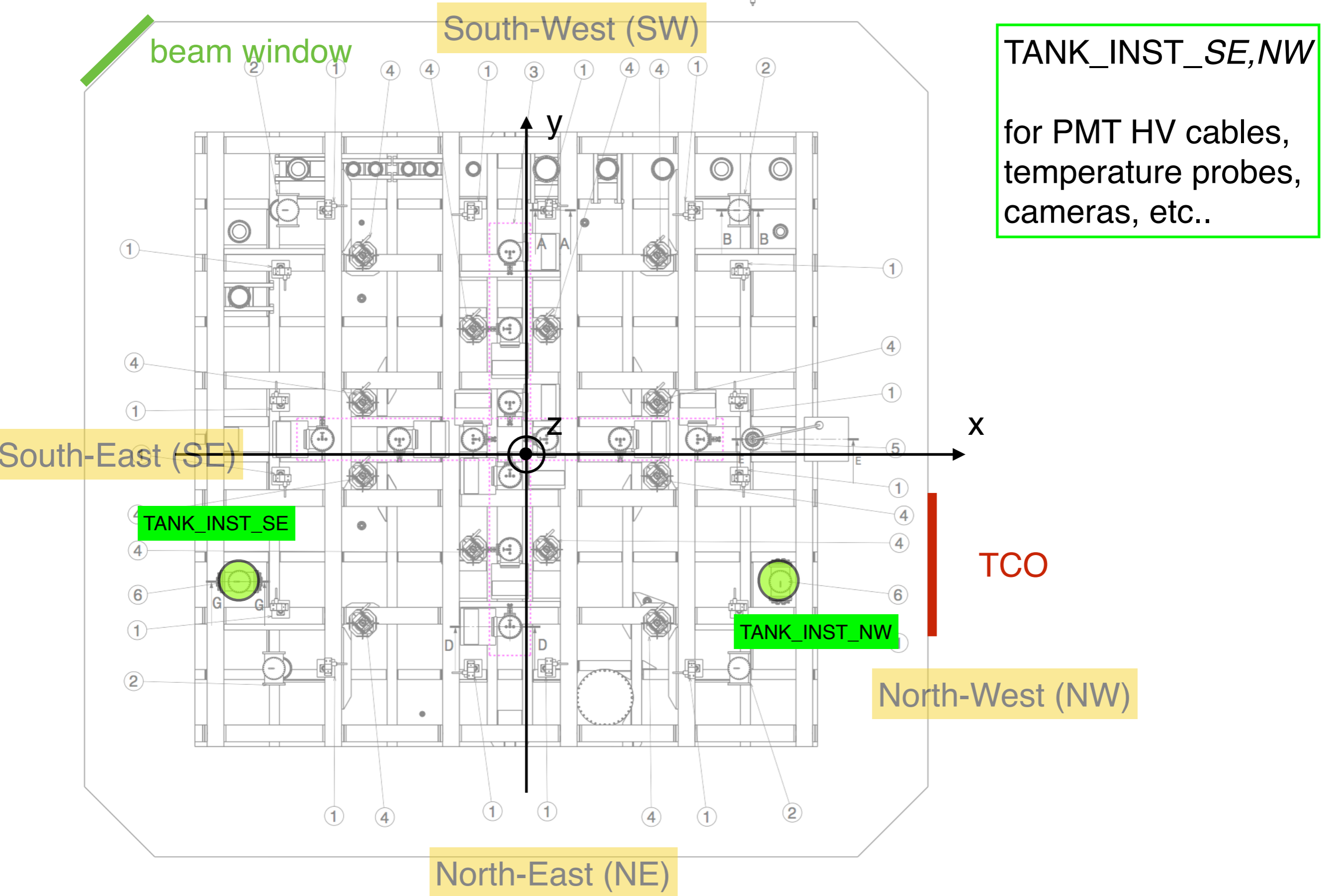
Please take a look as this layout is now final

BEAM

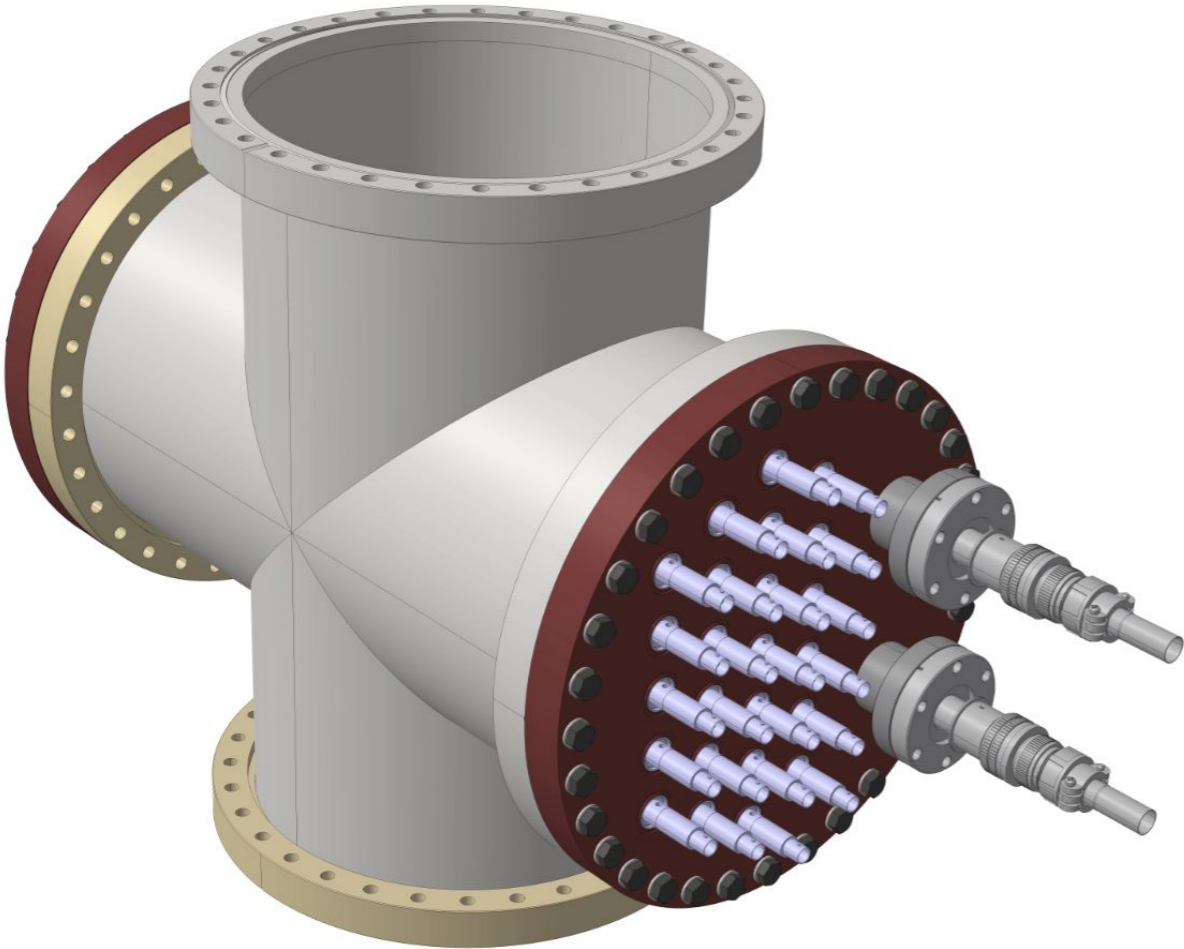




Saleve

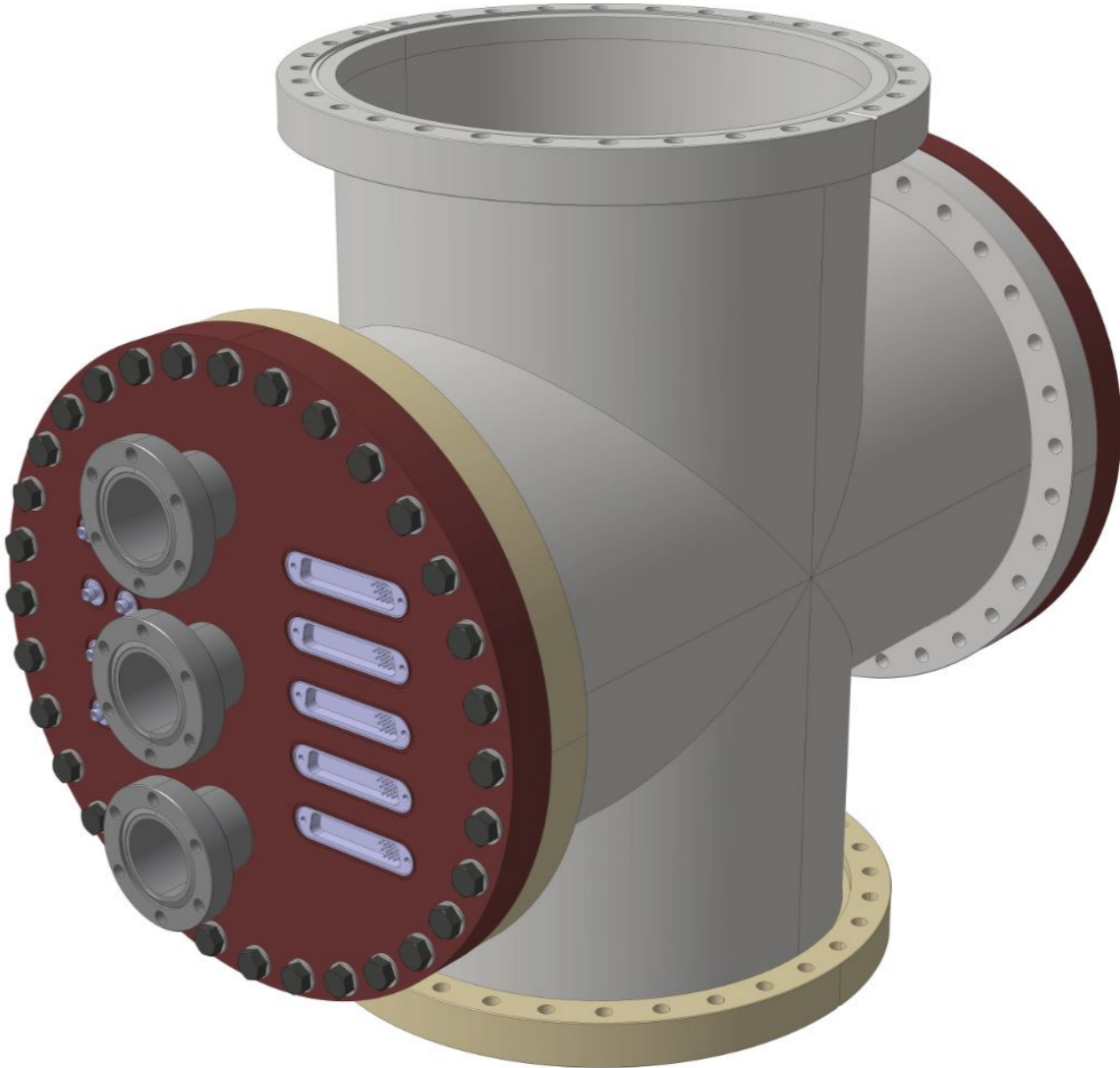


TANK\_INST\_SE



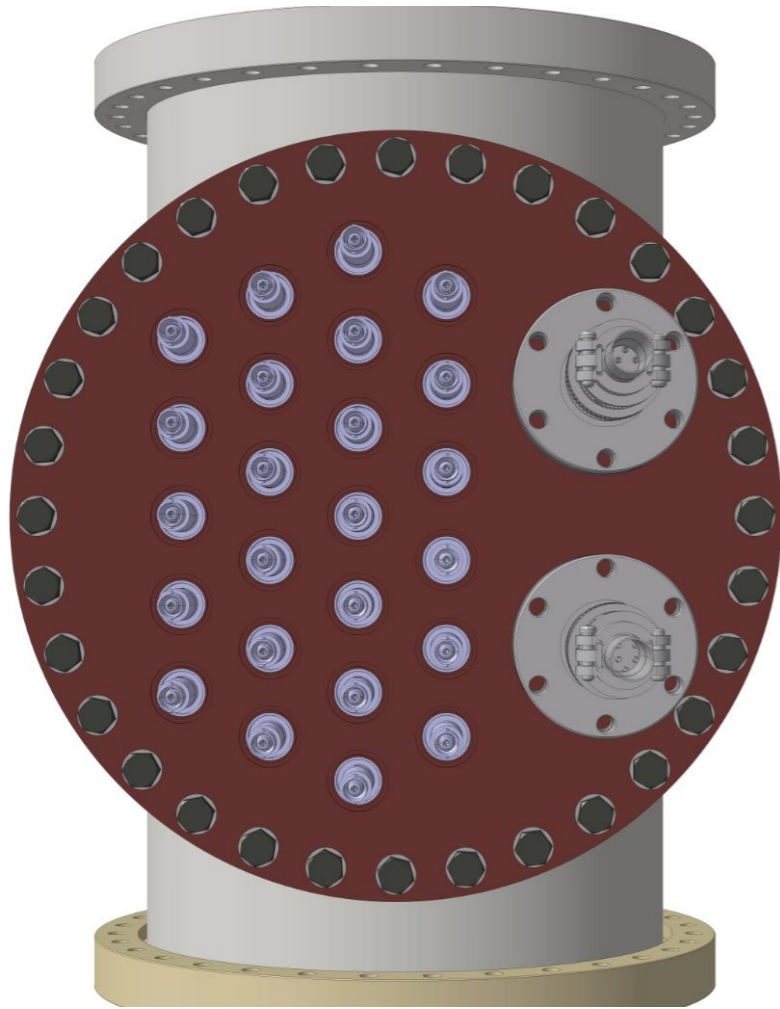
flange A (HV+ power)

TANK\_INST\_NW

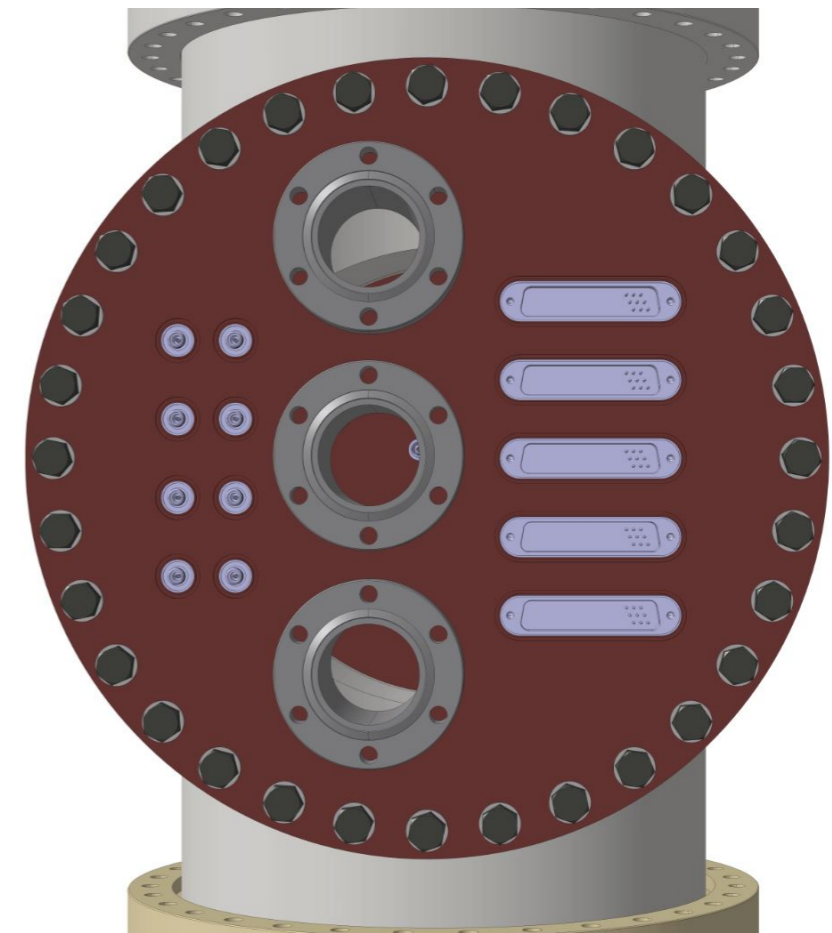


flange B (SUB-D, optical, SMA,...)

**2 identical FT with 2 flanges each.**



flange A (HV+ power)

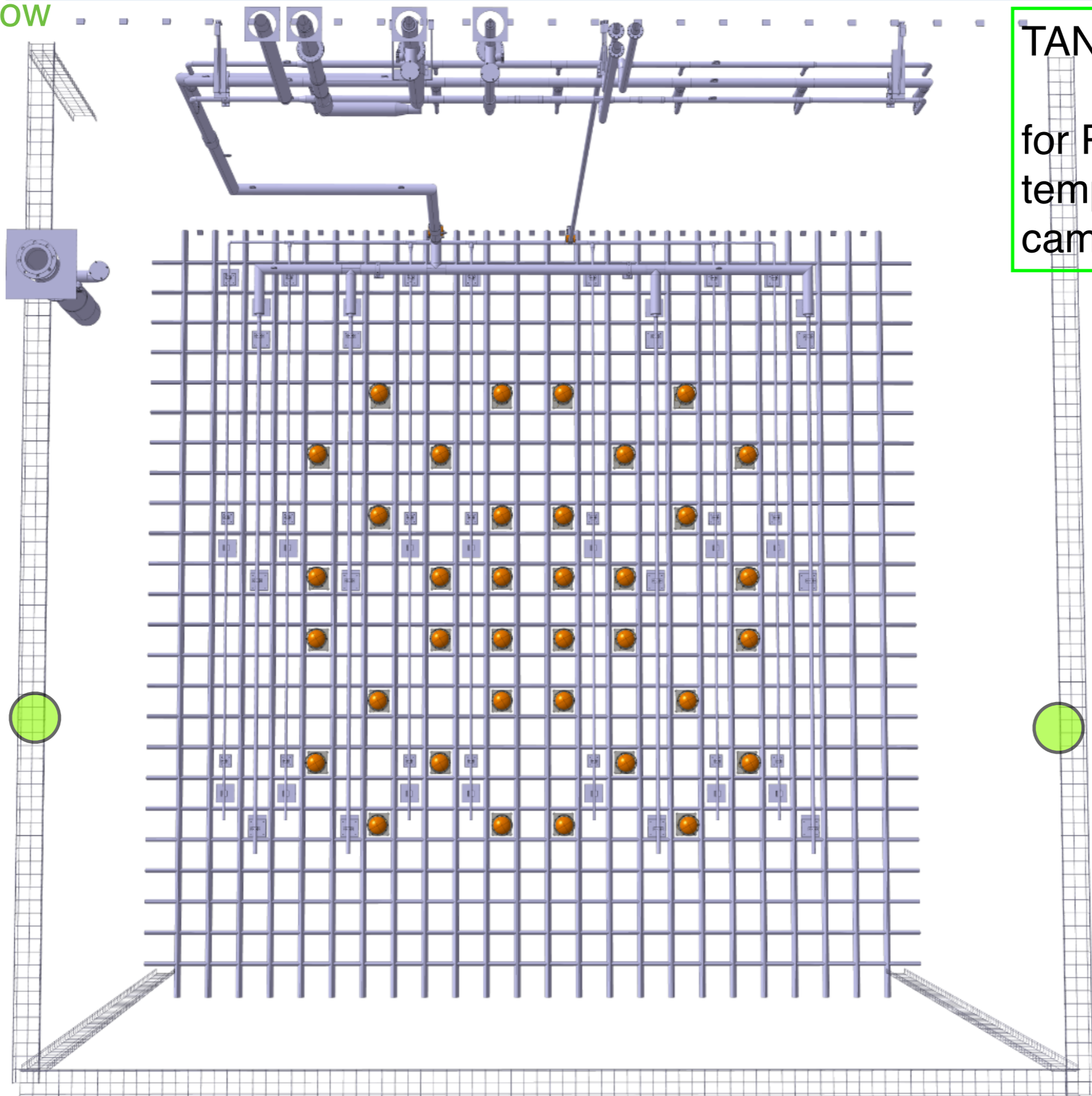


flange B (SUB-D, optical, SMA,...)

**PLEASE CHECK CONNECTORS!!**

# Layout of cable trays

beam window

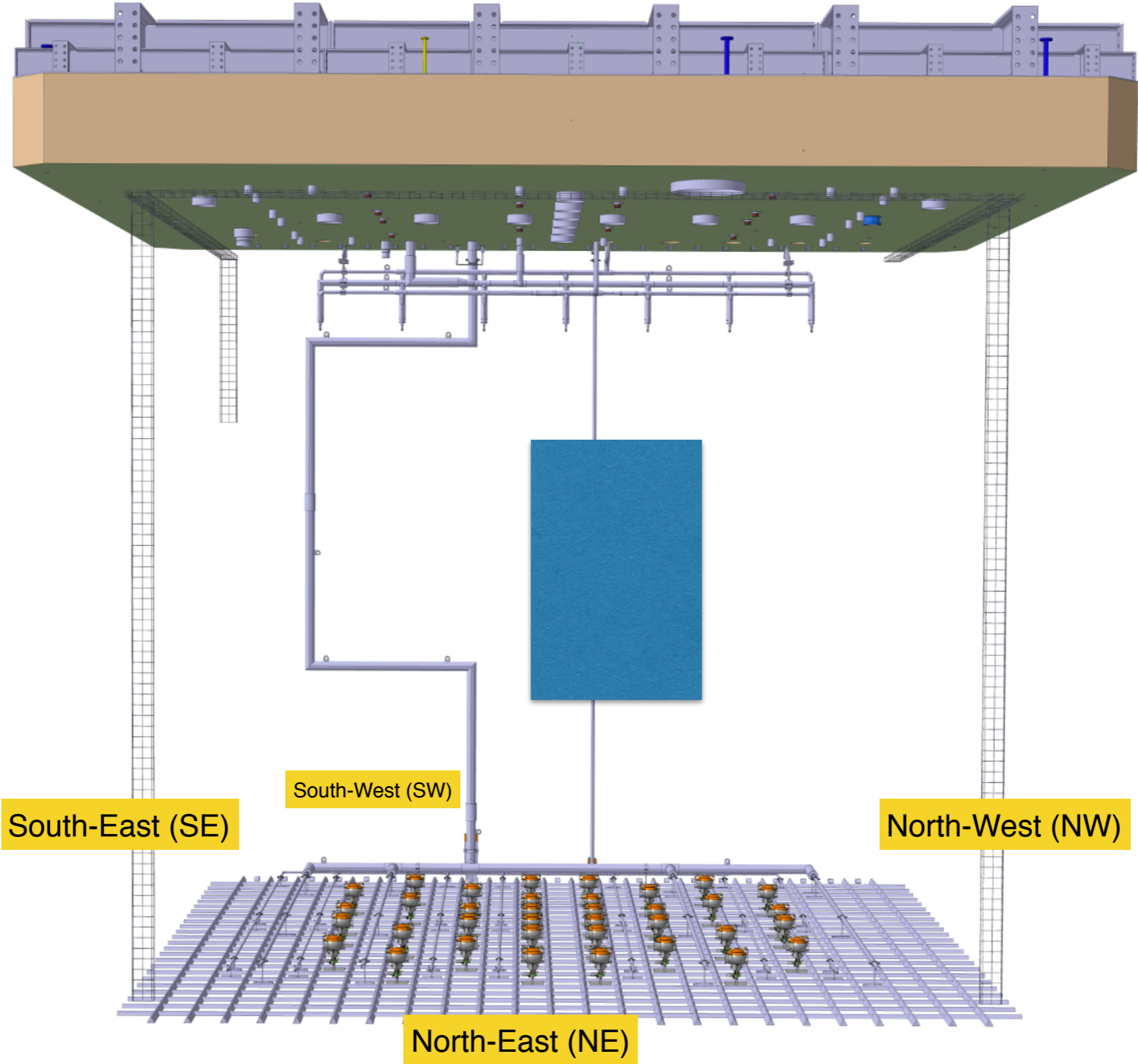


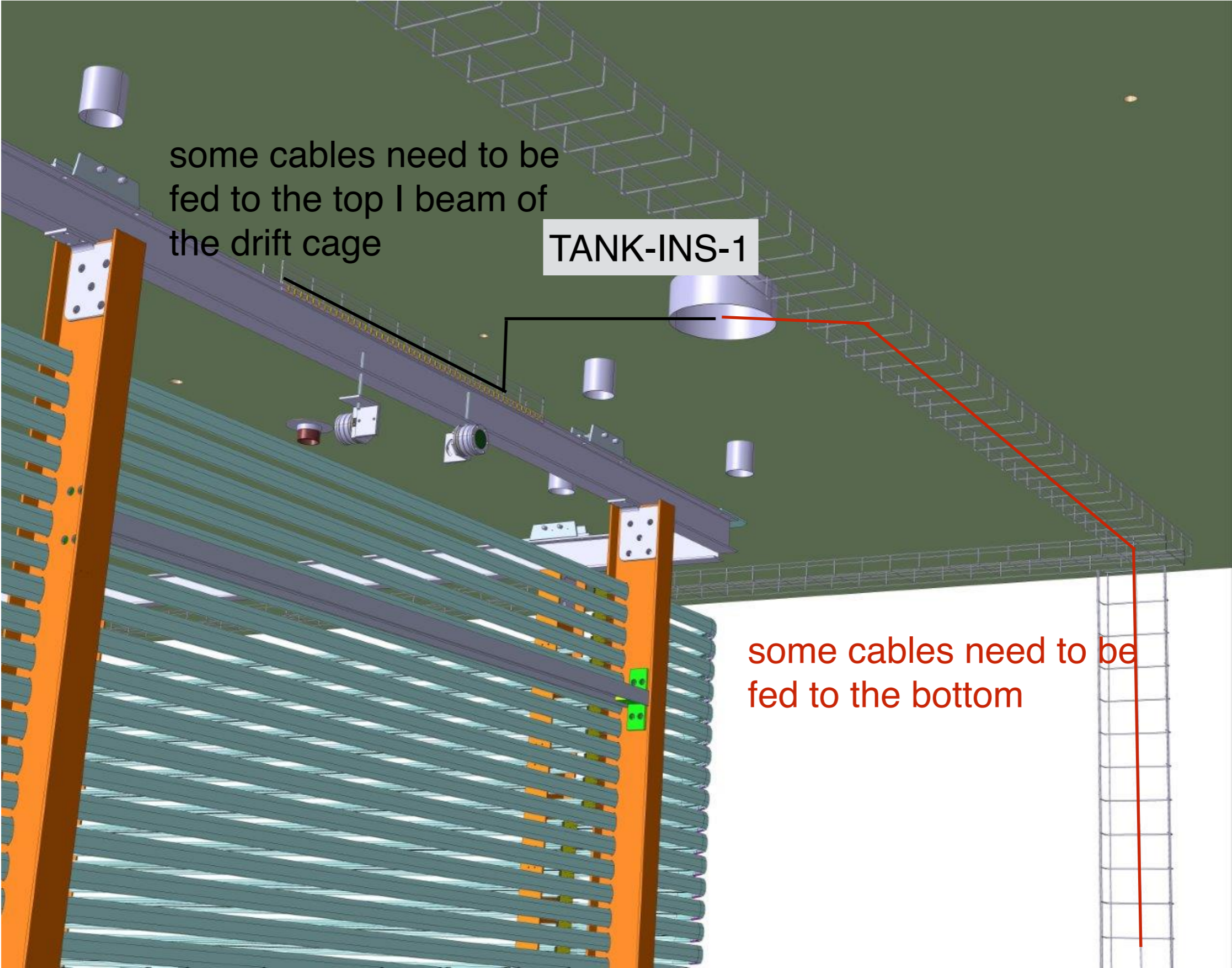
TANK\_INST\_SE,NW

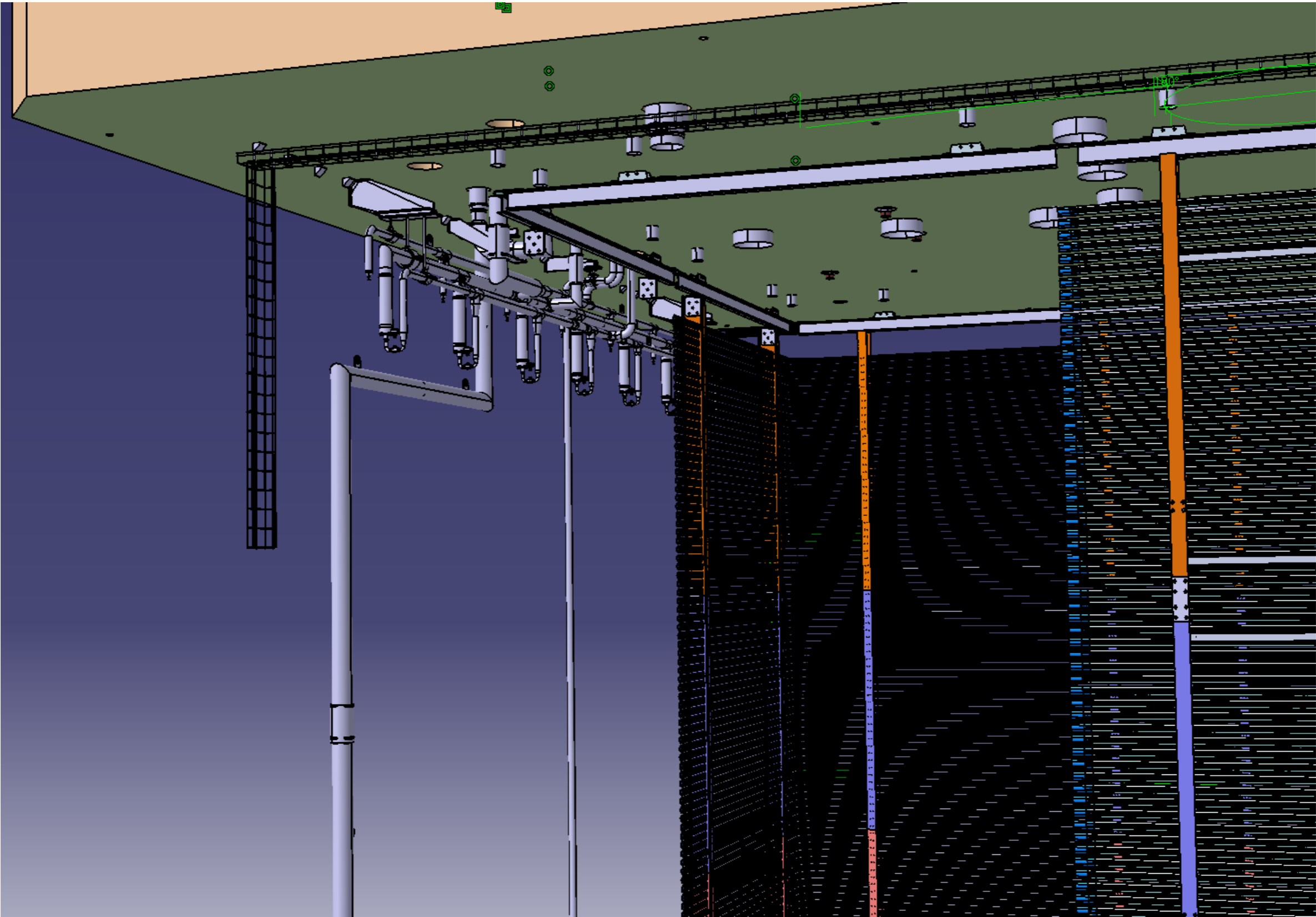
for PMT HV cables,  
temperature probes,  
cameras, etc..

TCO

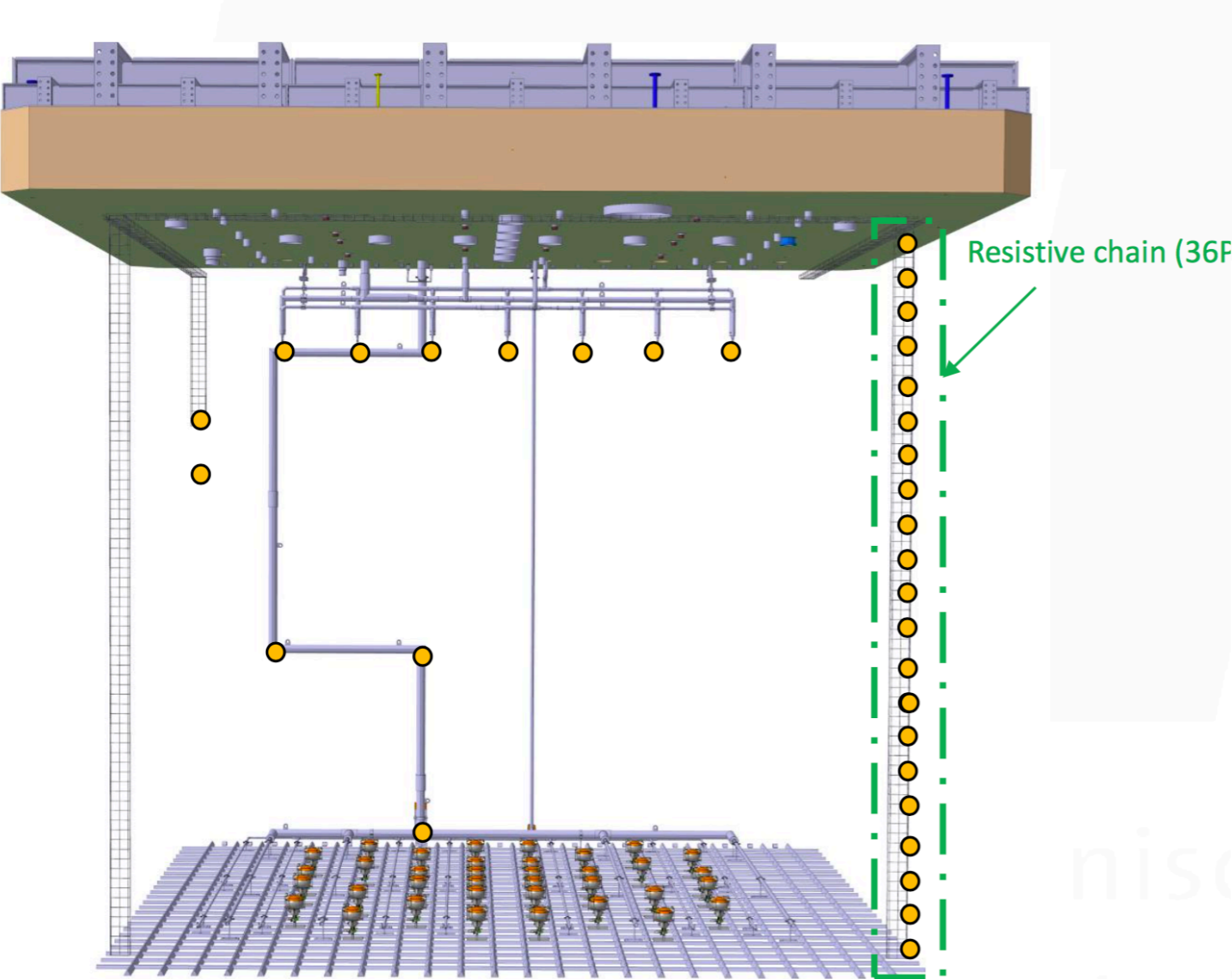




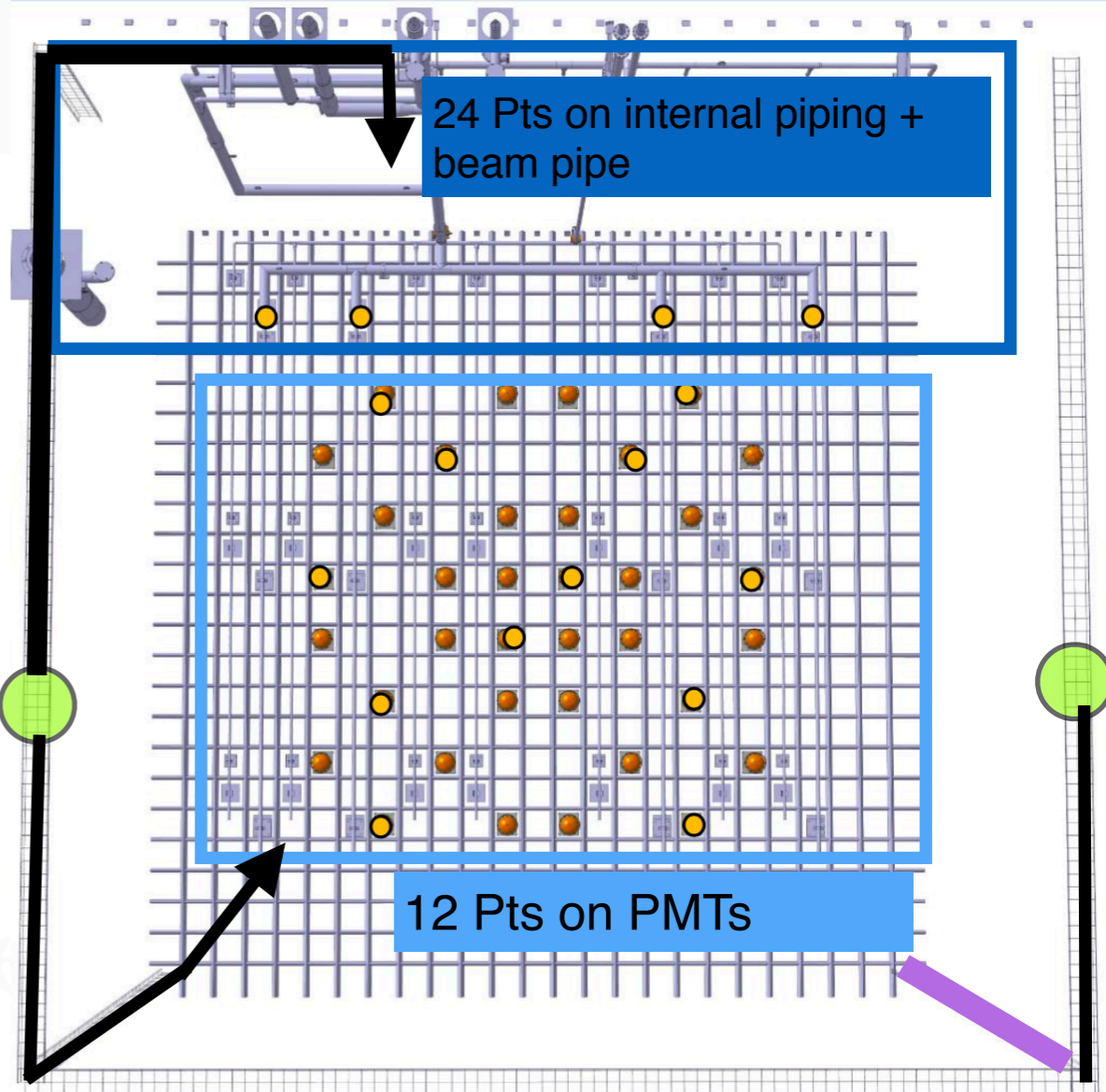




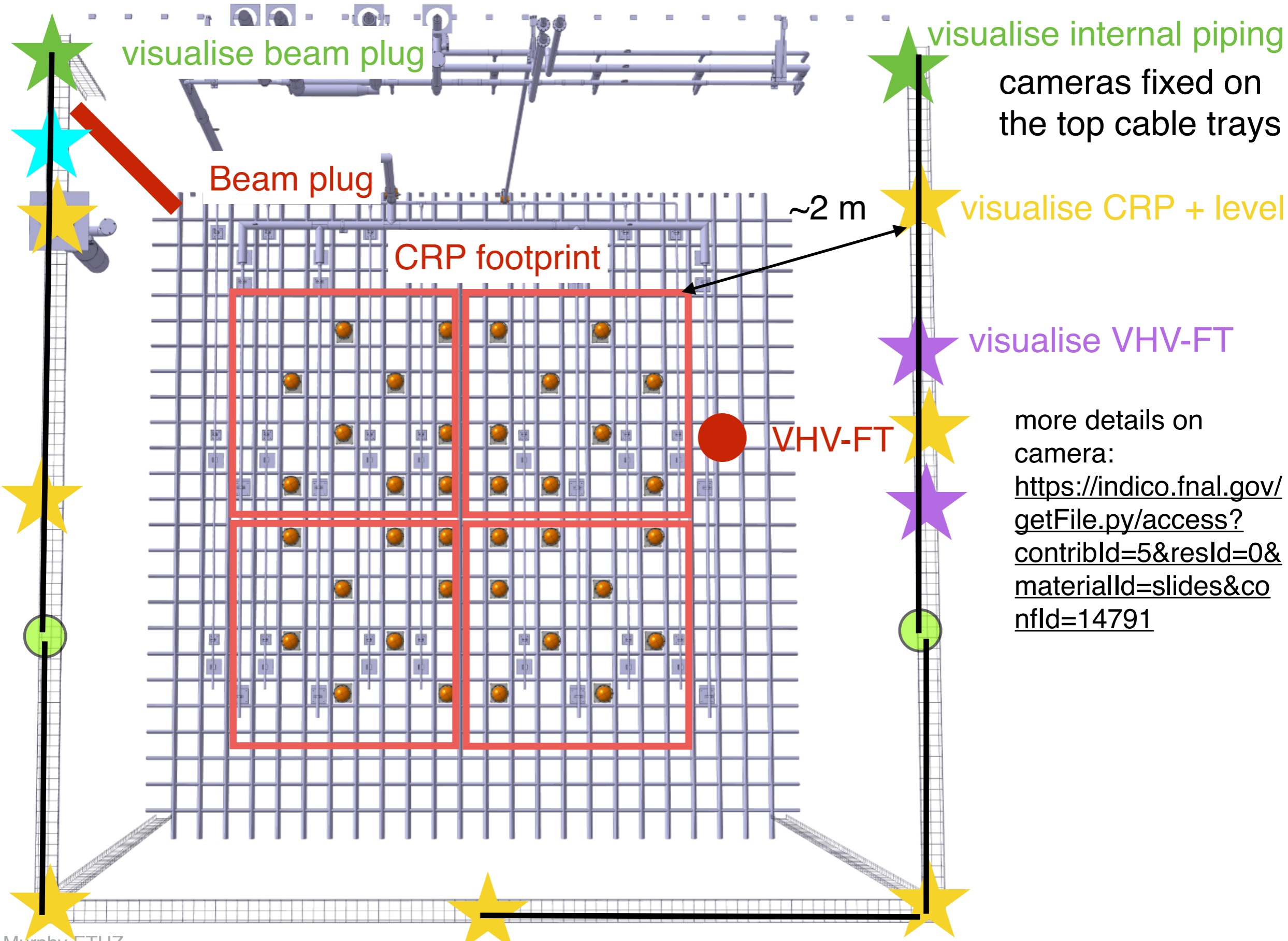
chain of temperature probes

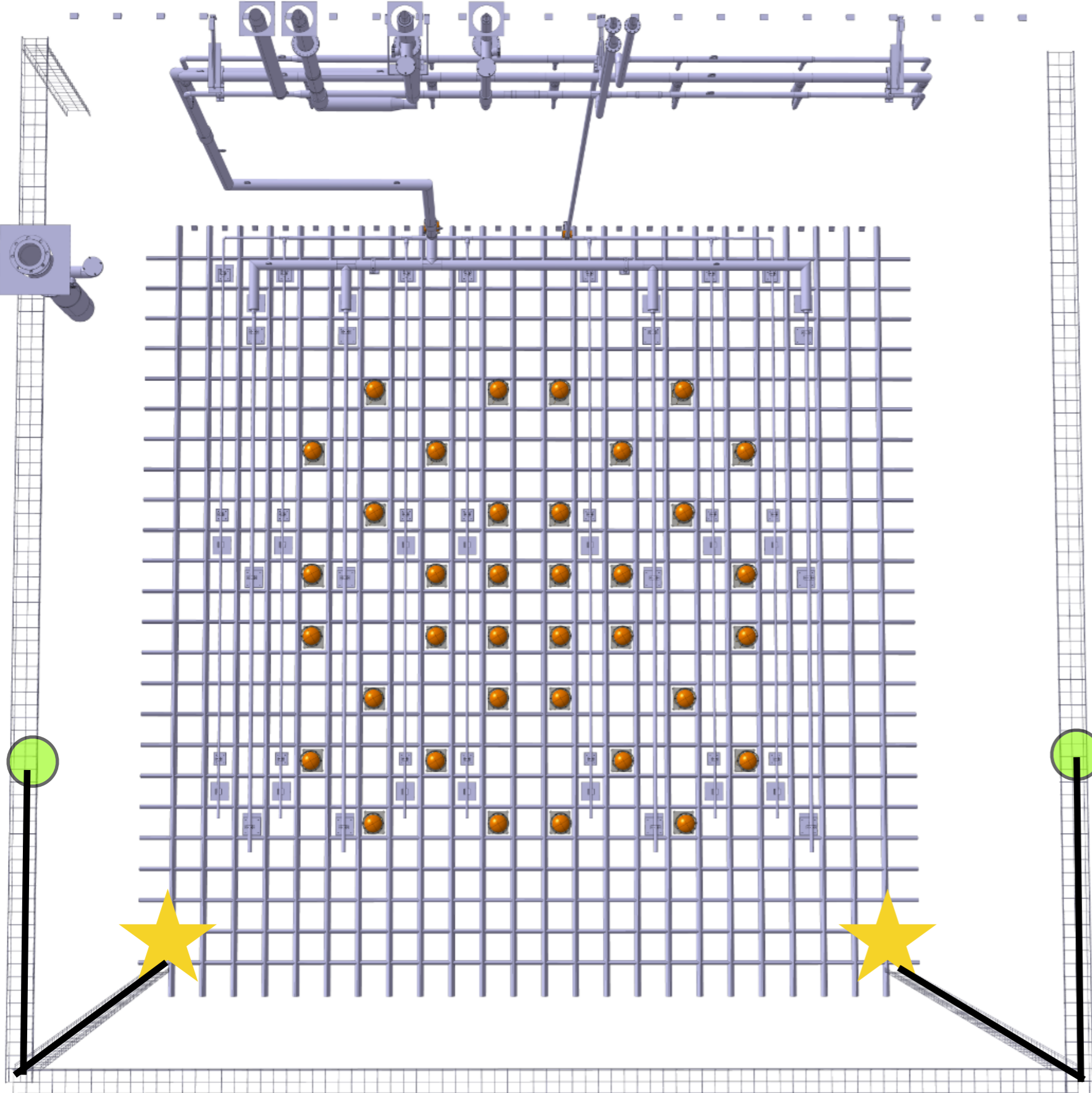


temperature probes glued on tank bottom



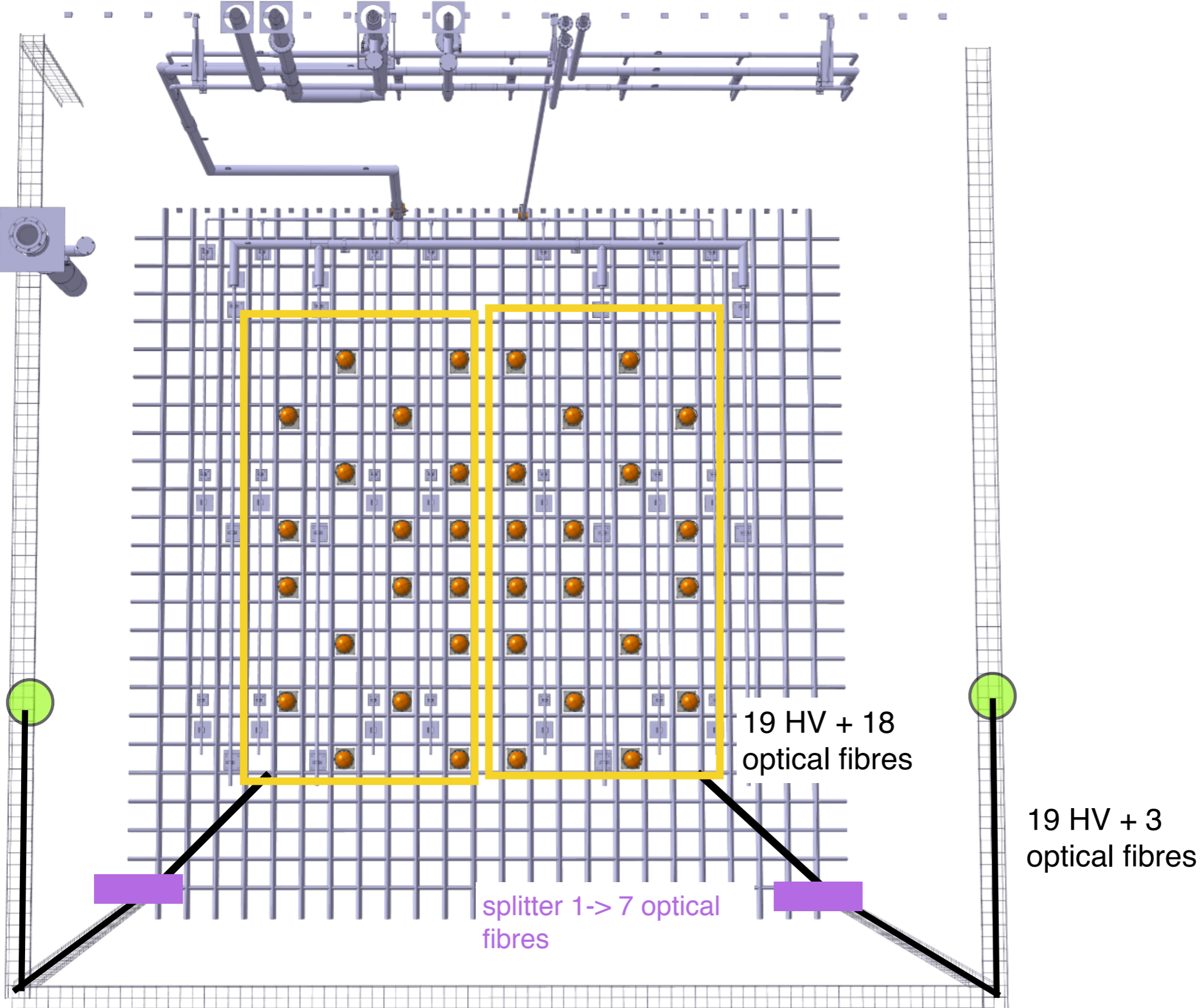
# Layout of sensors: 12 cameras



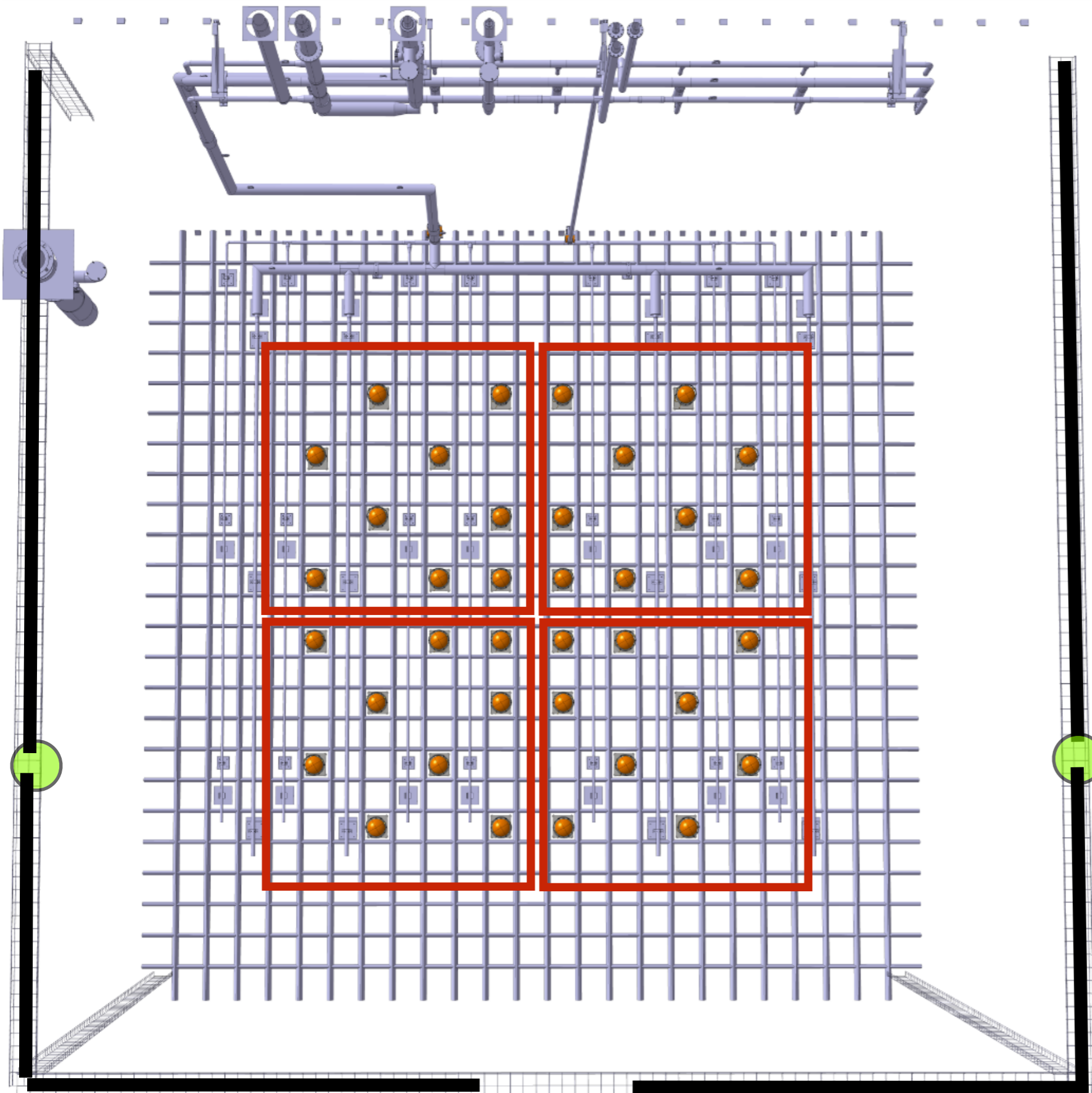


3 HV + 3 optical fibres

# Layout of sensors: PMTs

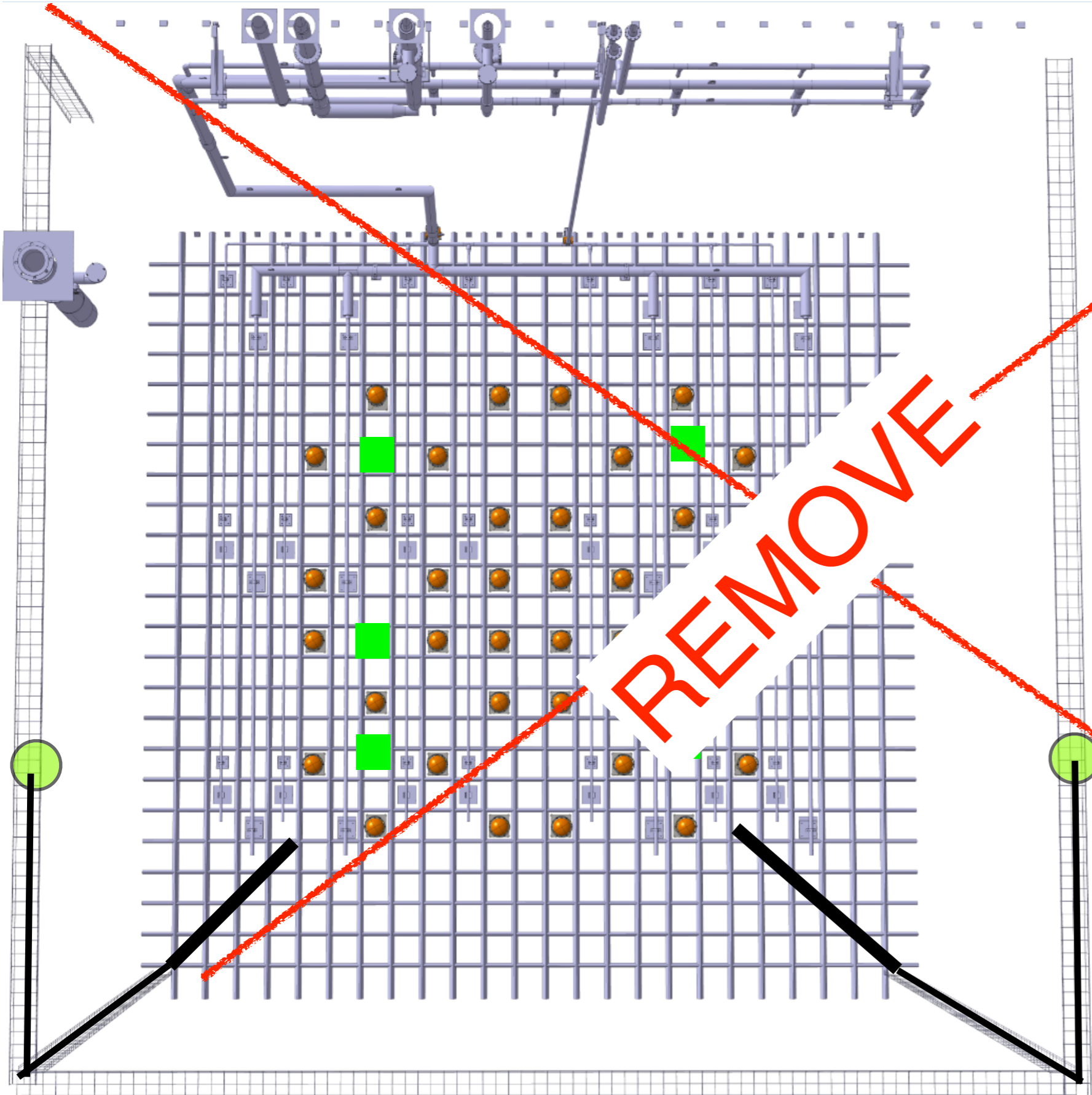


# Layout of sensors: LED ribbon



2 ribbons per FT

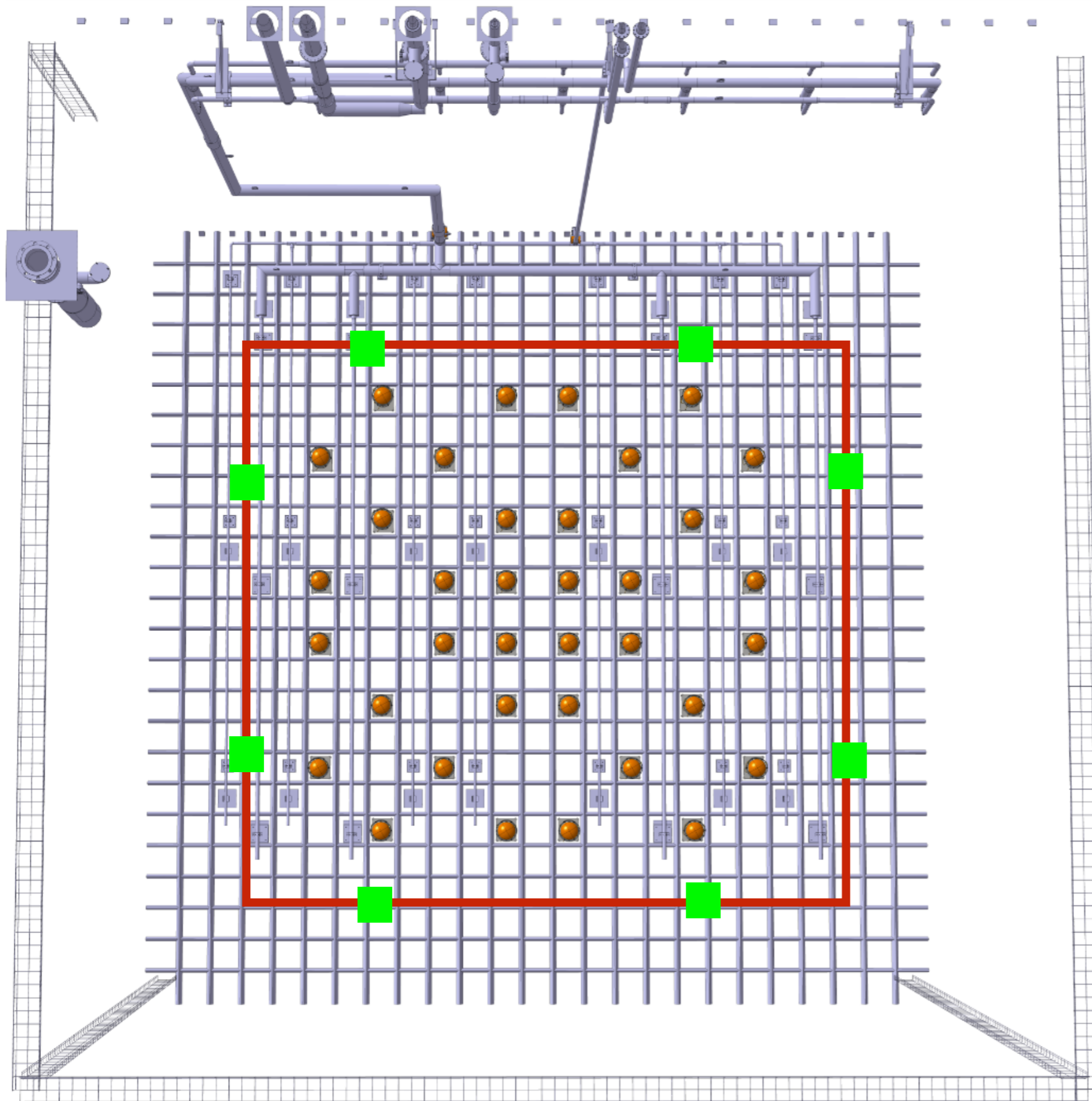




heaters connected in series

1-2 kW total power available (can be more). Exact layout TBD

**REMOVE**



1 coax level meter per drift cage submodule