

# LDC in Underground Hall

- We have looked at LDC, as a typical example, because I got drawings from Norbert Meyners
- We have added top cryogenics and dewar and metallic structures to reserve space around experiment
- Cold box is placed near the experiment on a service tower

# LDC in Underground Hall

- Crane coverage is provided over pacman
- Pacman can sit and slide on the floor
- The width of the U-hall, 36 m, is as in the base design
- Assuming full surface assembly, the underground crane has a capacity of only 40 tons reducing the height of the U-hall

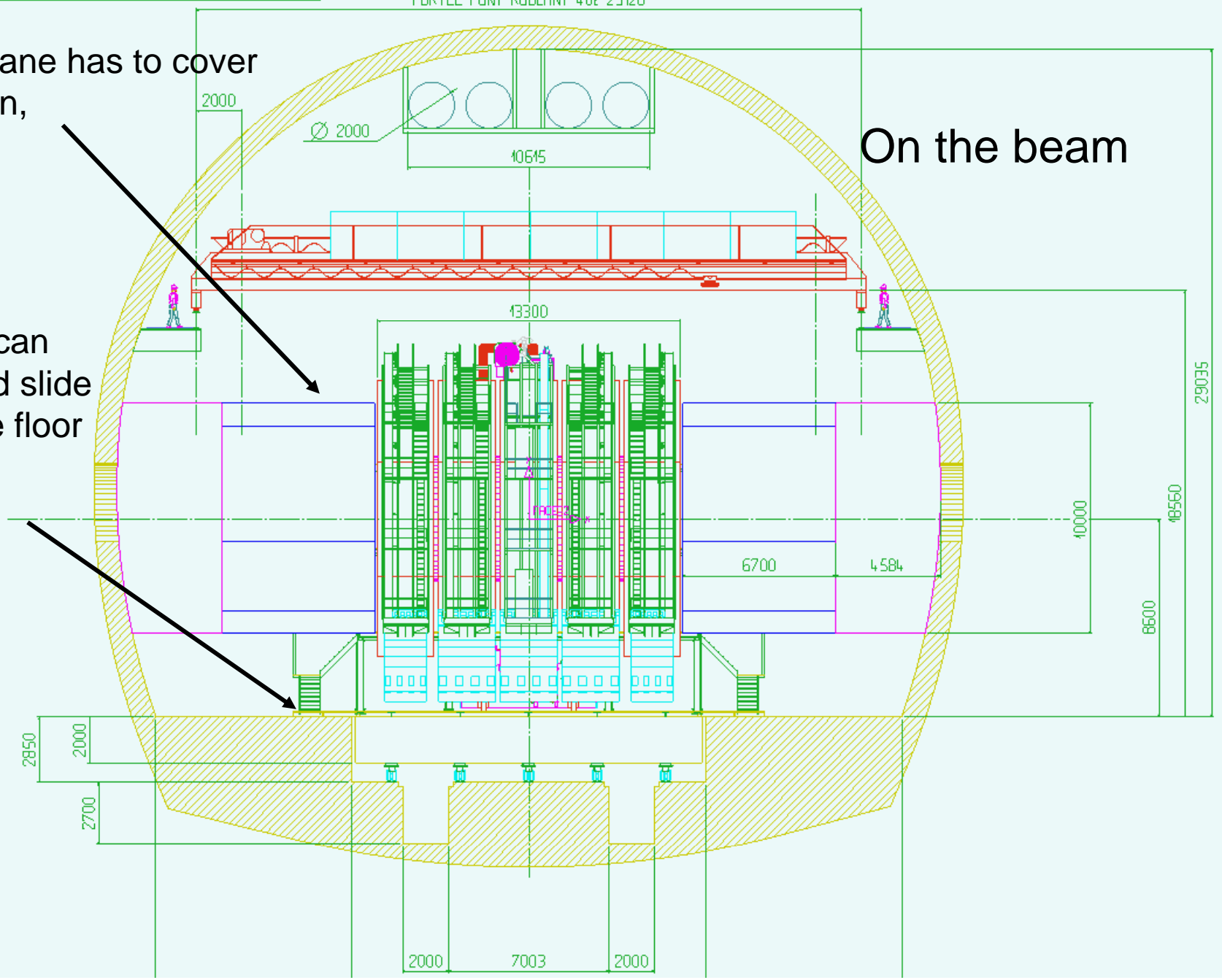
# EXPERIENCE FERMEE SUR FAISCEAU

PORTEE PONT ROULANT 40t 29120

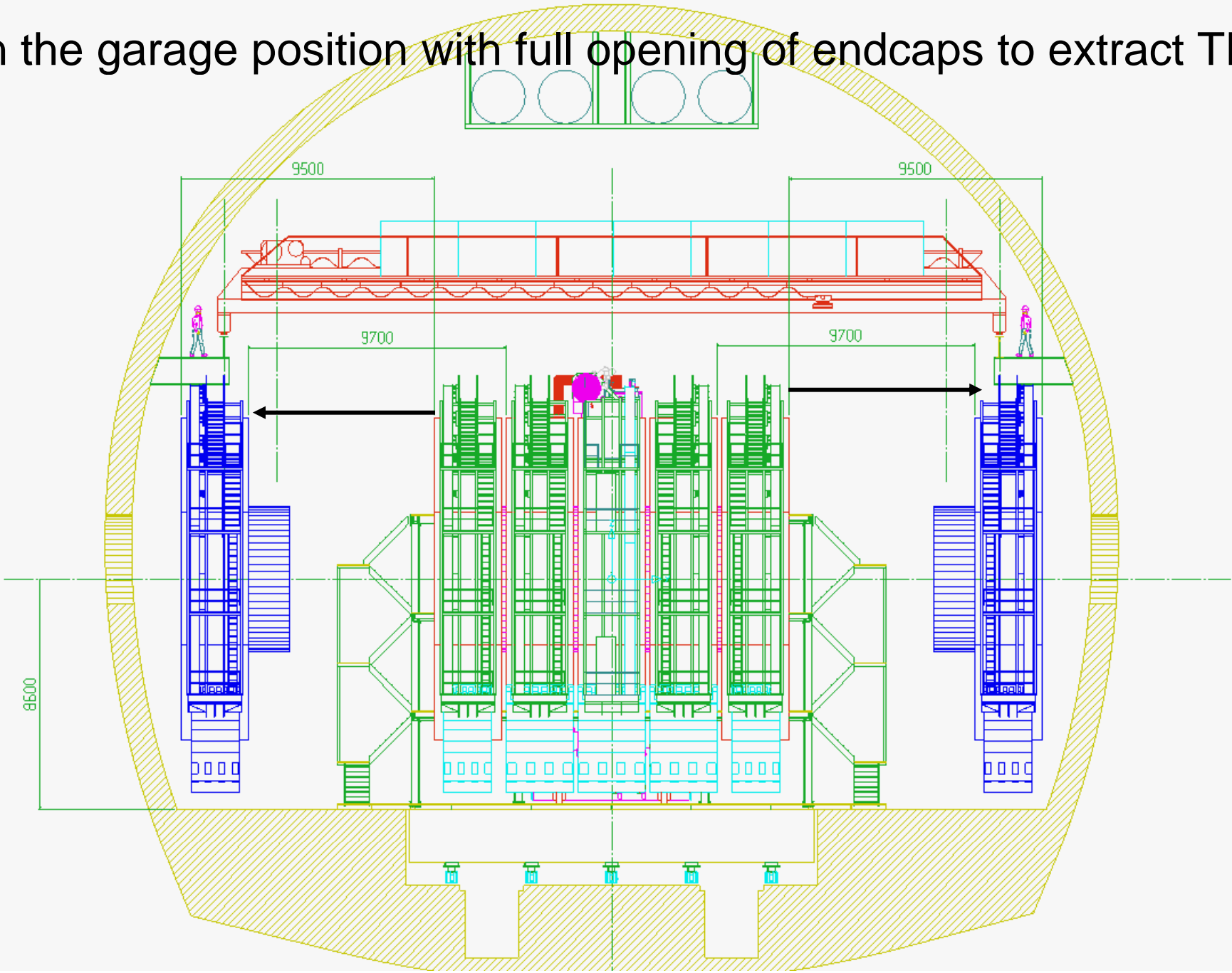
40-t crane has to cover  
Pacman,

Pacman can  
sit and slide  
on the floor

On the beam



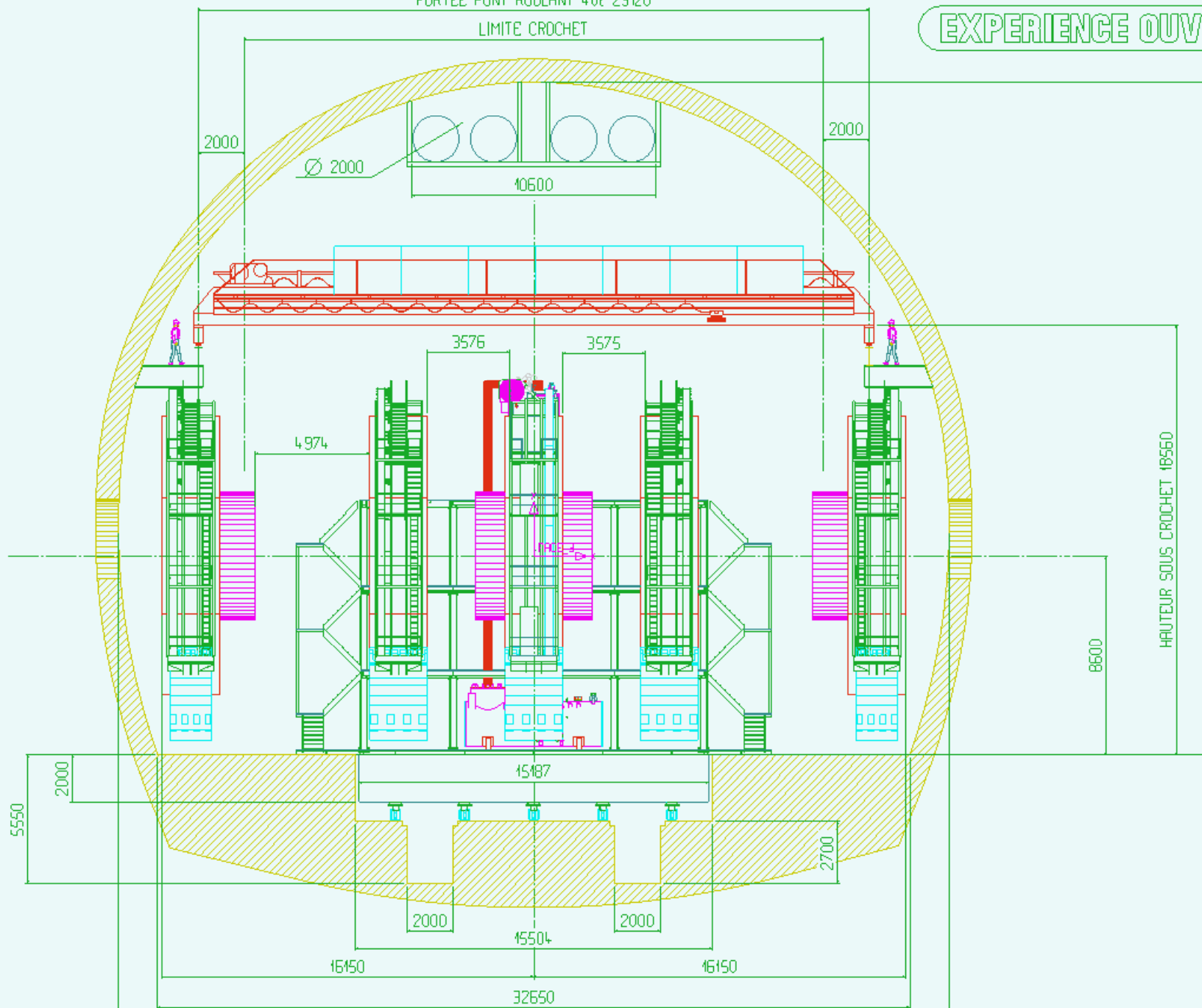
In the garage position with full opening of endcaps to extract TPC

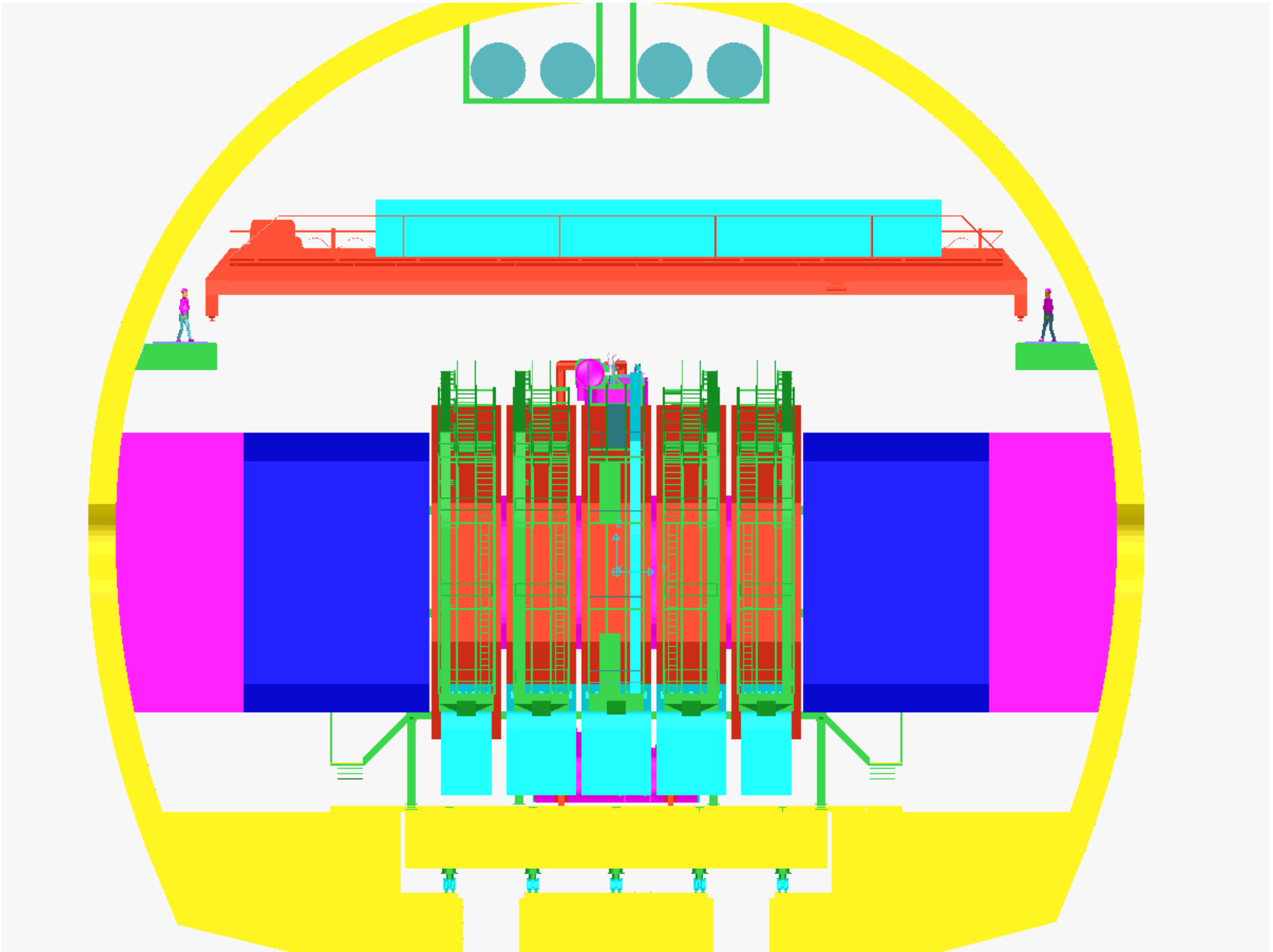


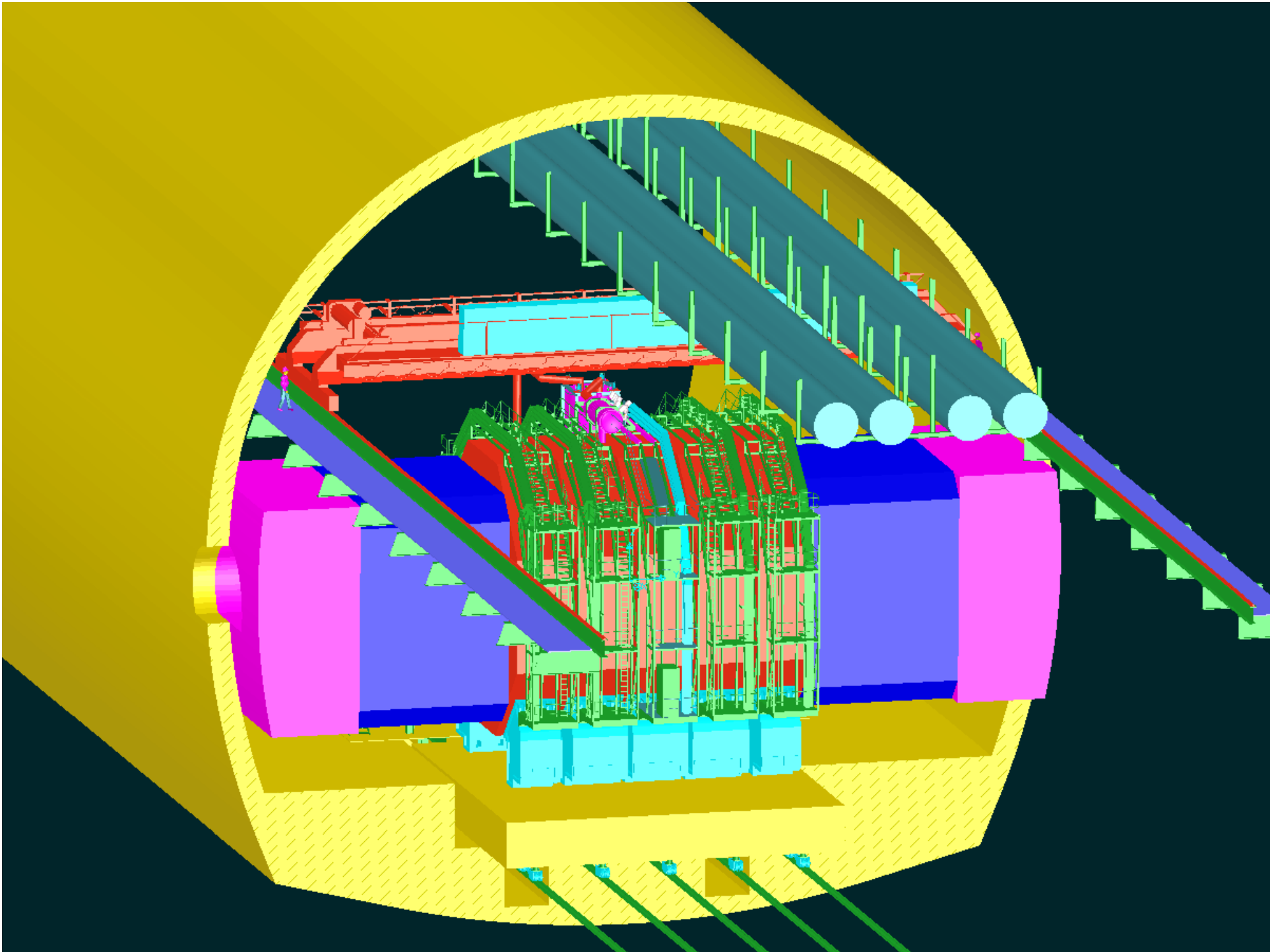
PORTEE PONT ROULANT 40t 29120

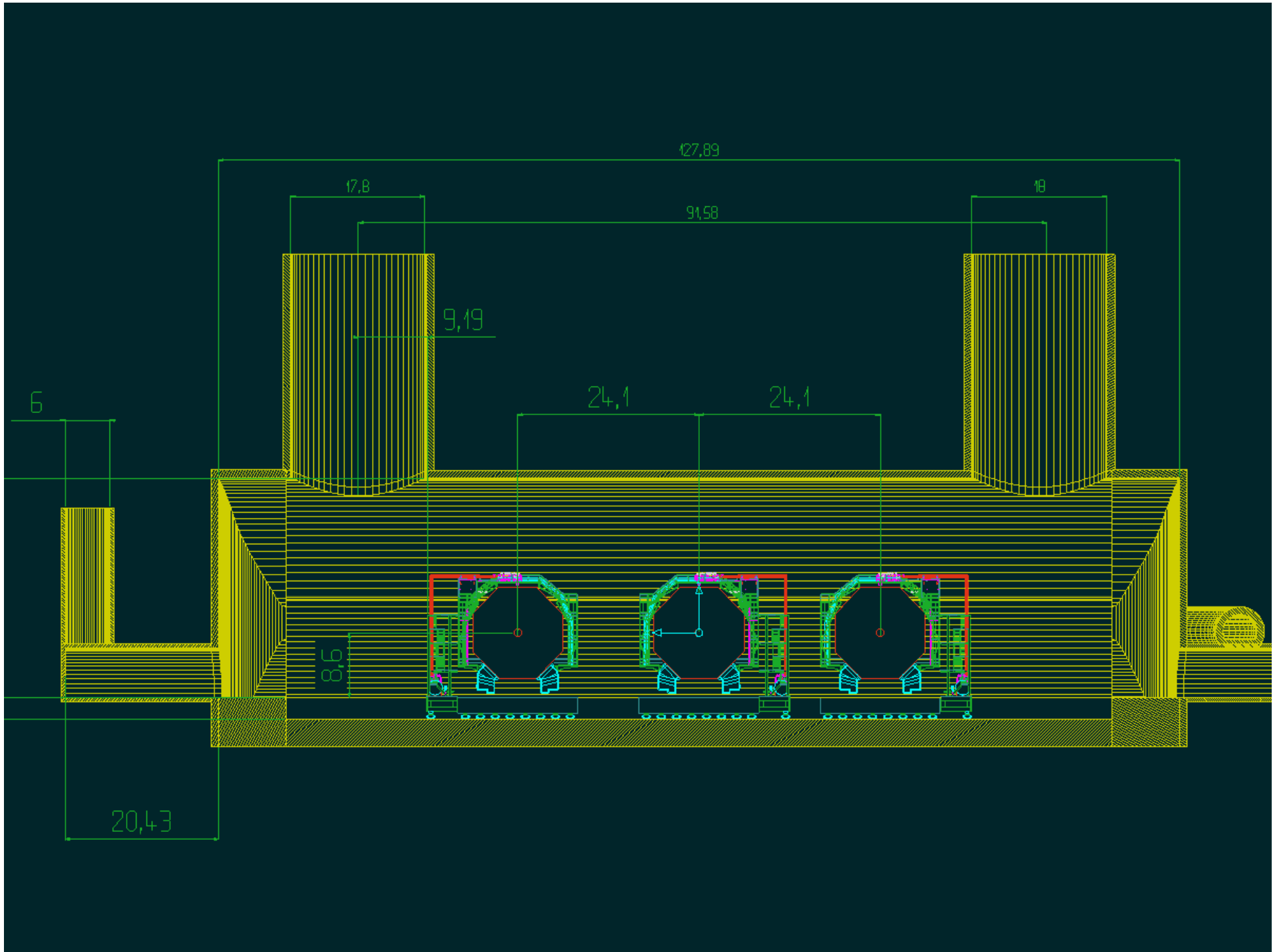
LIMITE CROCHET

EXPERIENCE OUVERTE





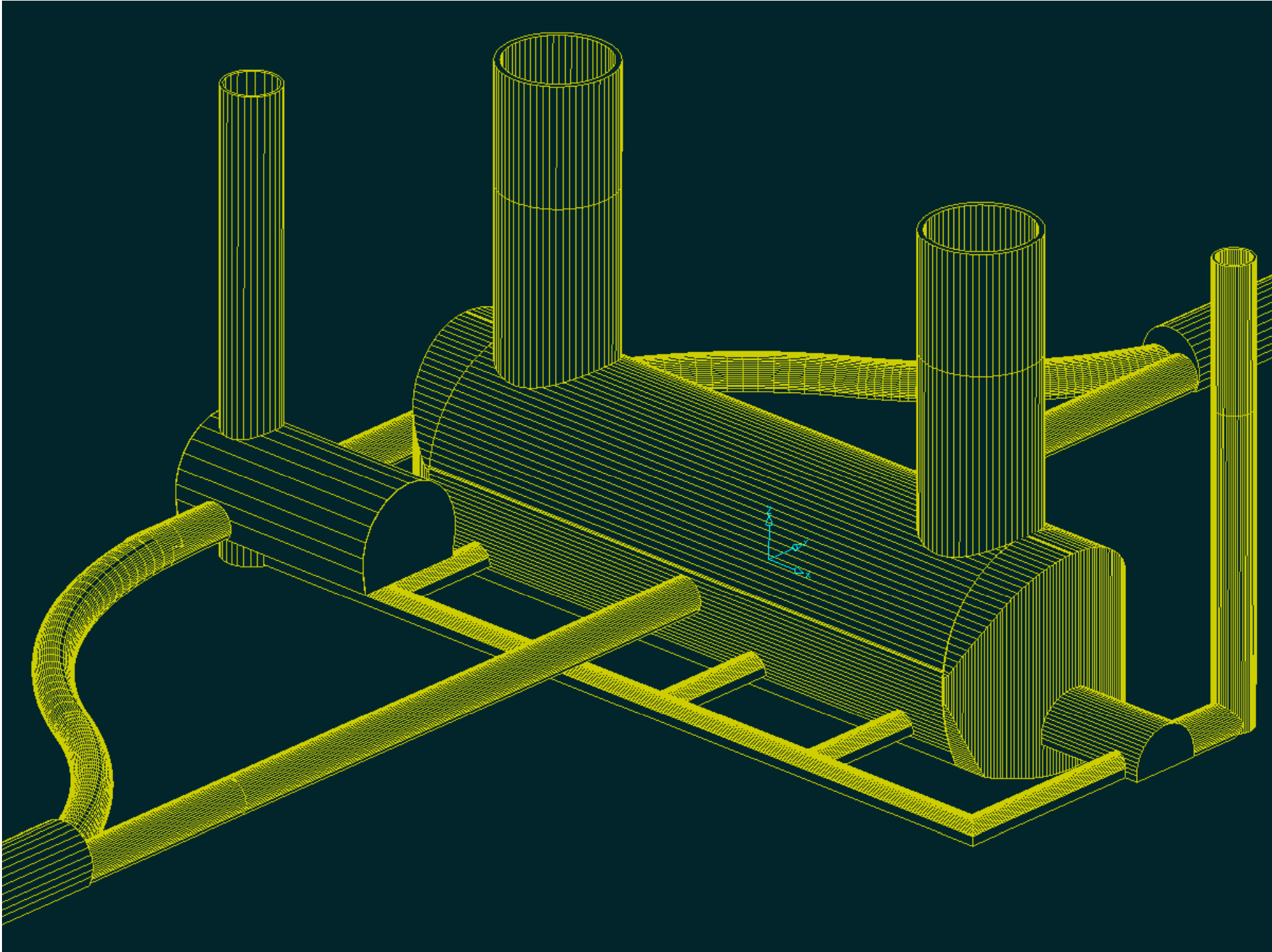


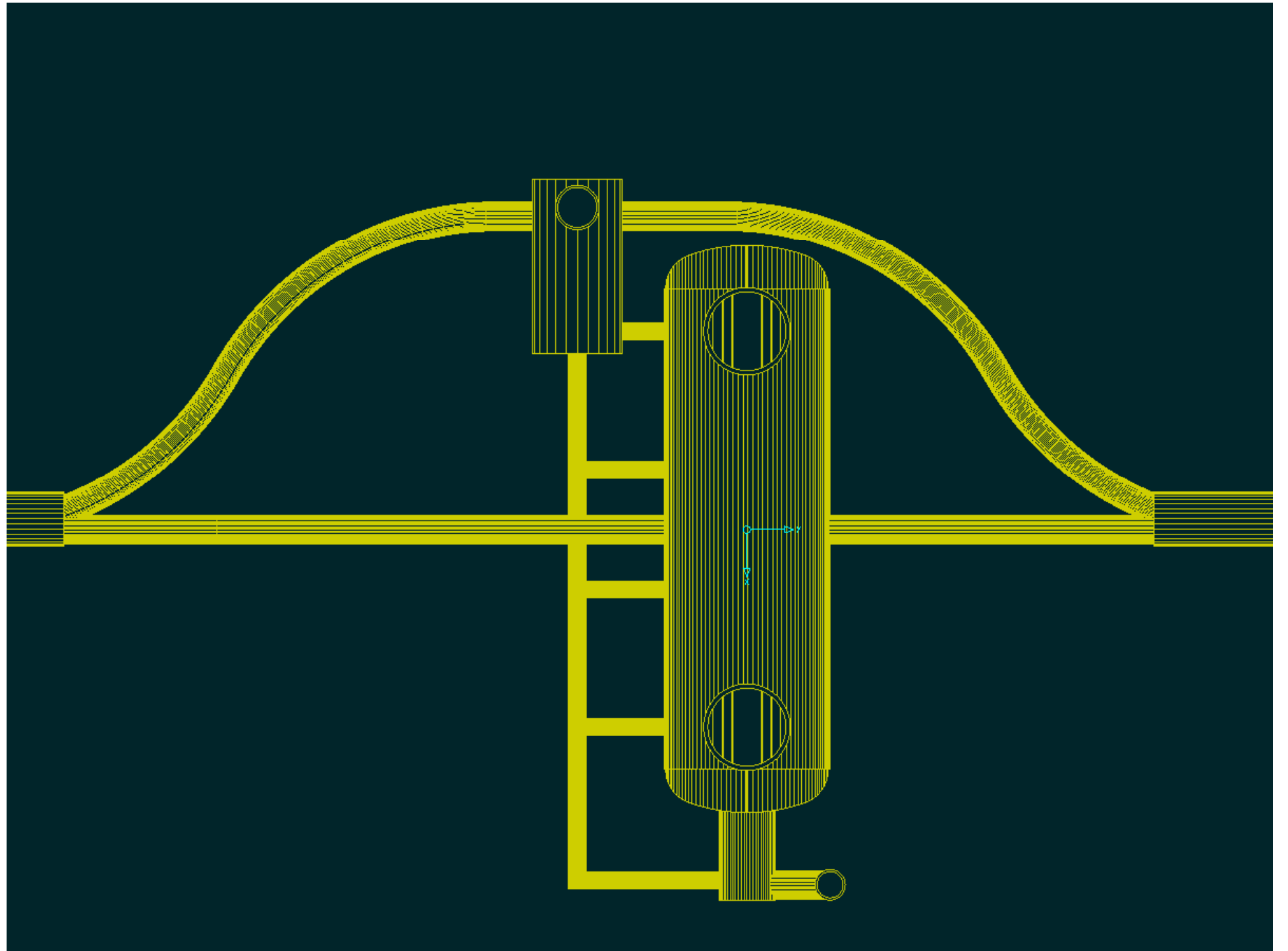




# Underground

- **Main service cavern** on one side, **at beam level**, to service machine and one experiment, with a **9m access shaft** (lift+stairs+services+crane)
- **Smaller service cavern** on the other side, at **U-hall level**, to service the other experiment, with a **6m access shaft** (lift+stairs+services)
- System of interconnected pressurized galleries, at U-hall level, for personnel access and safety





# Surface

- Two assembly halls back to back
- One heavy shaft-cover that can be moved from one shaft to the other on rails
- The gantry crane (without load) can also be shifted from one shaft to the other as required
- This disposition requires the elements of the experiment to be rotated by 90° underground but this is no problem if air pads are used to move elements of experiment

