



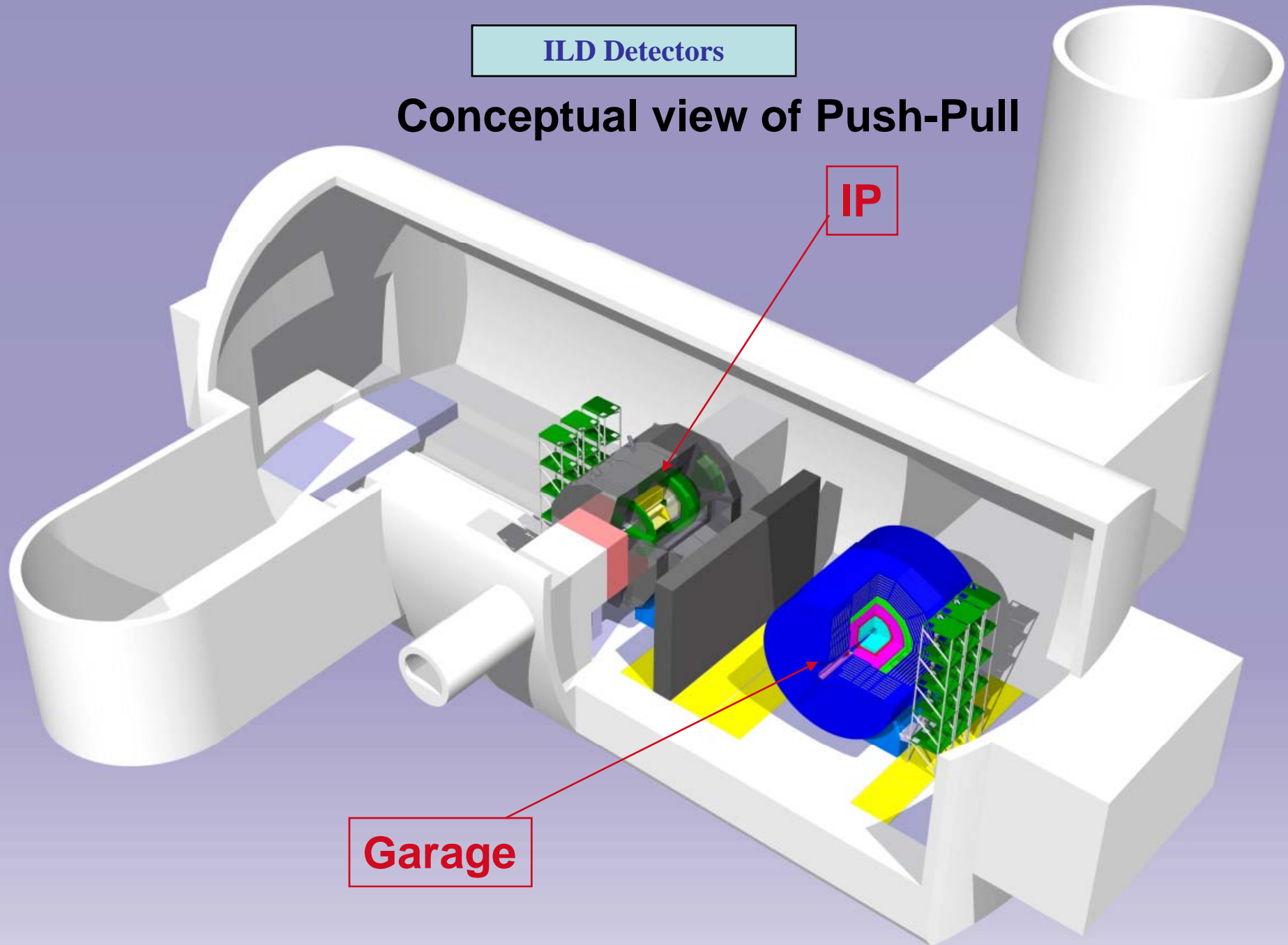
ILD-Webex meeting 17 February 2009

Concept of Platform and Environment

A. Hervé / ETHZ@CERN

ILD Detectors

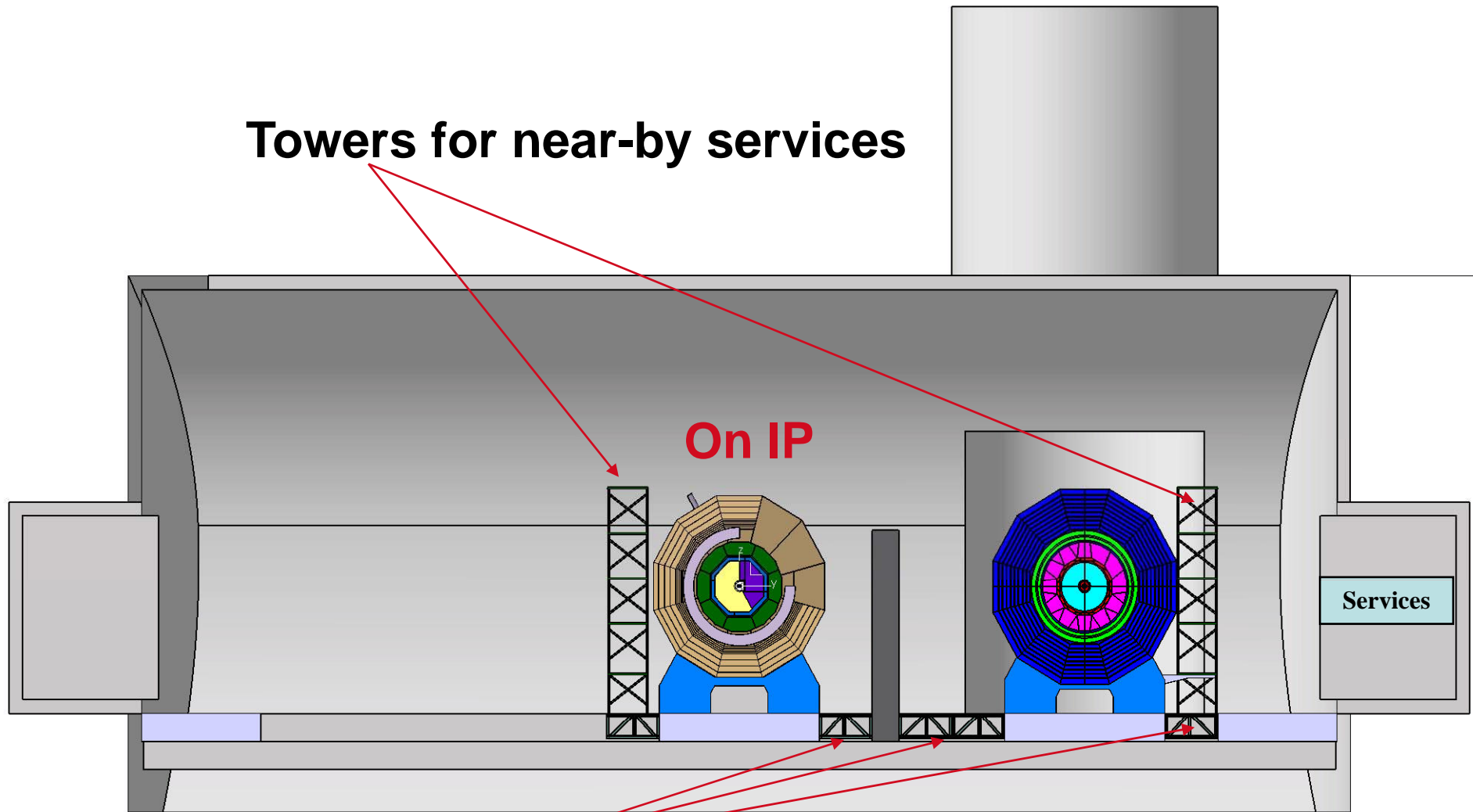
Conceptual view of Push-Pull



Design N.S. ETH-Z, January 2009.

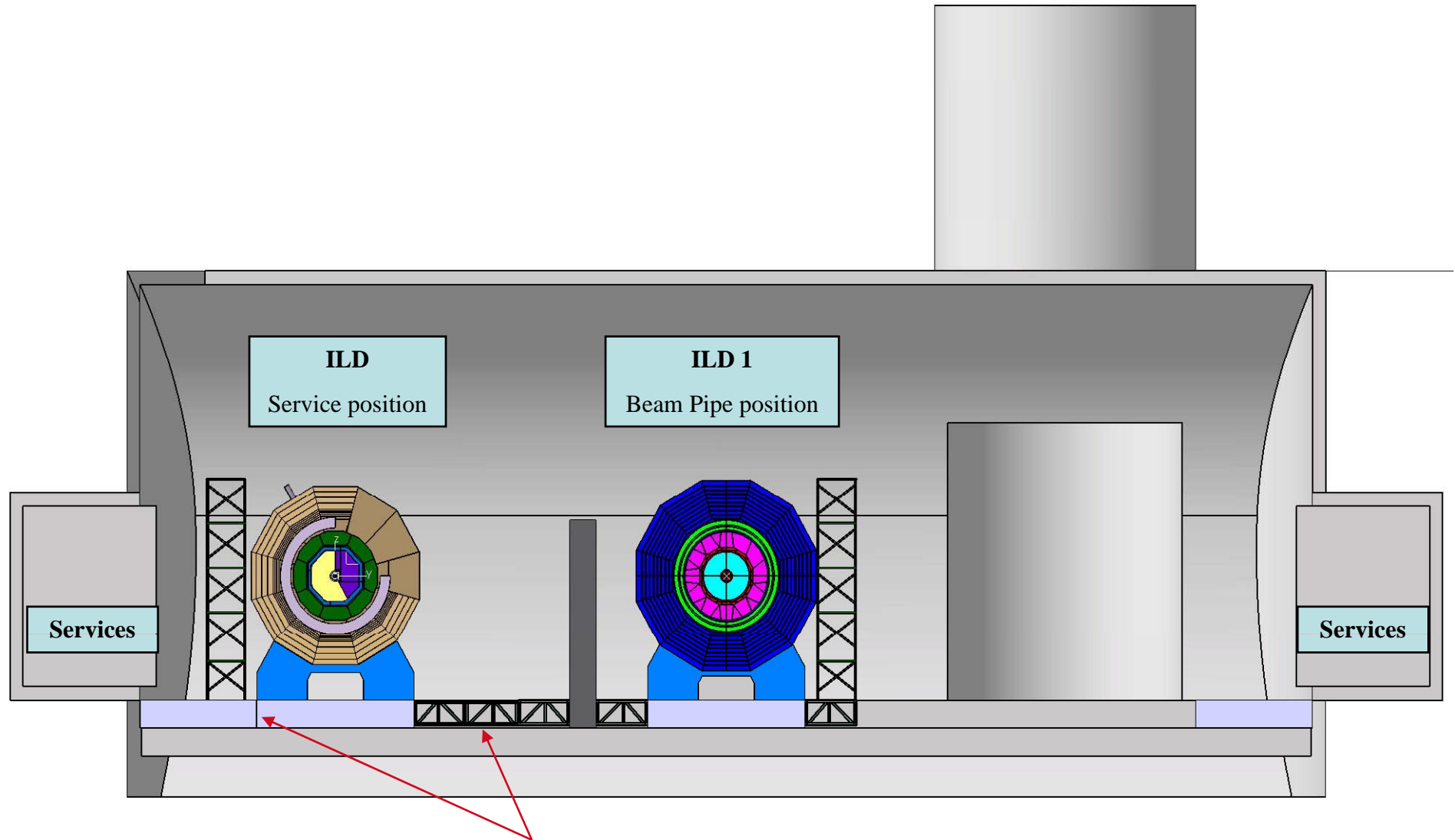
Two Experiments, two positions

Towers for near-by services



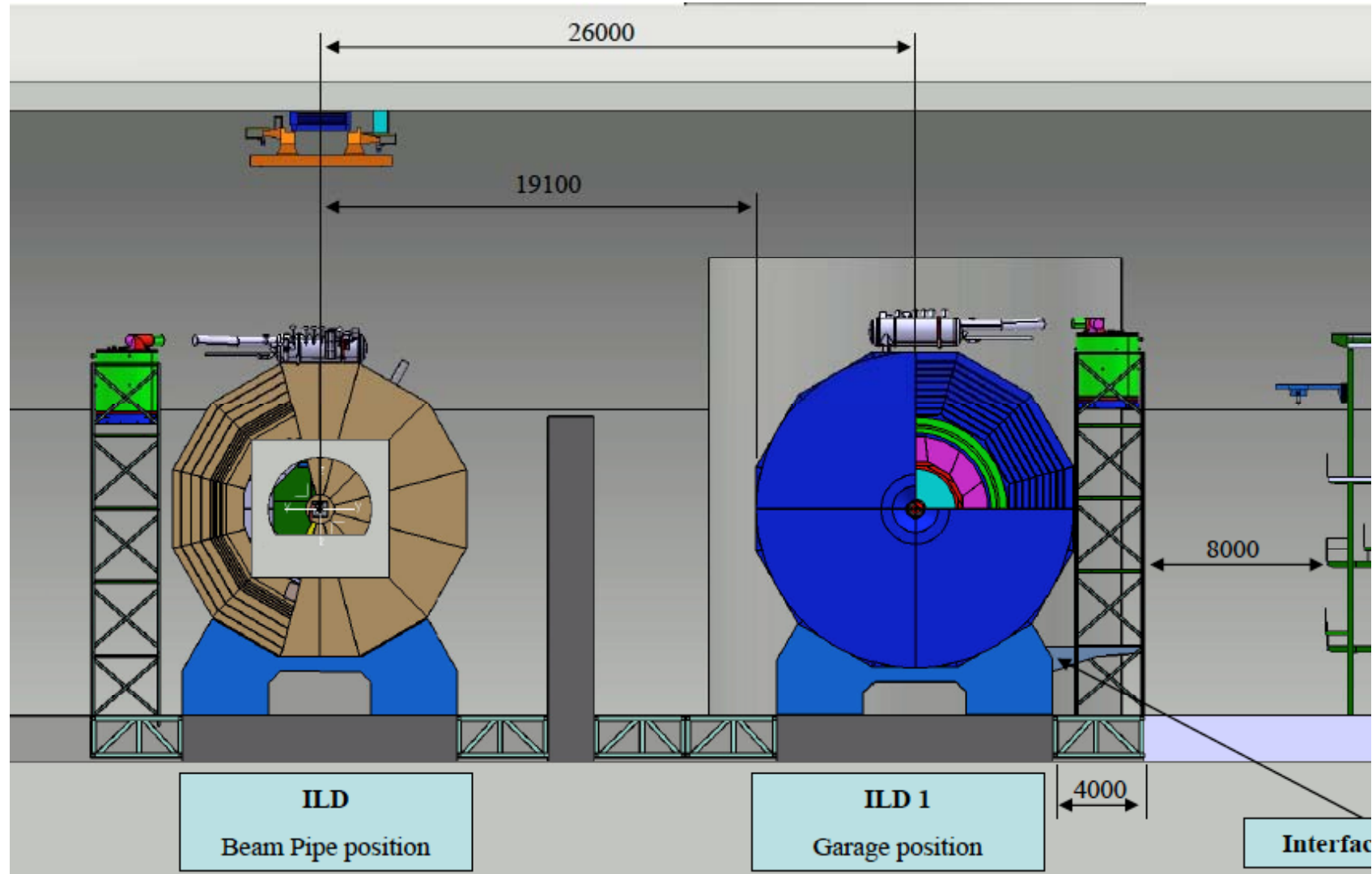
False floor modules to compensate platform height

Two Experiments. two positions

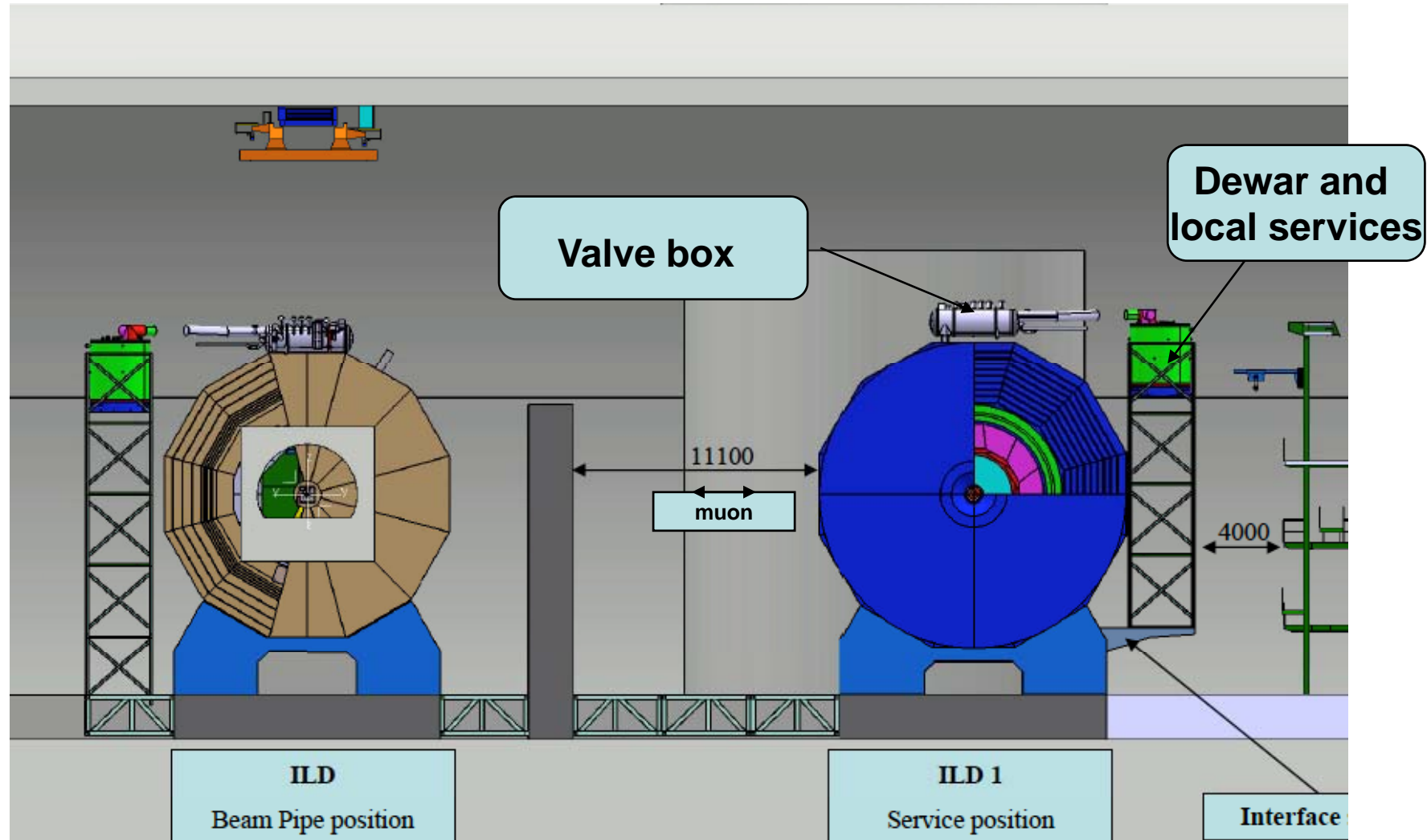


False floor modules can be rearranged to modulate working space disposition in garage position

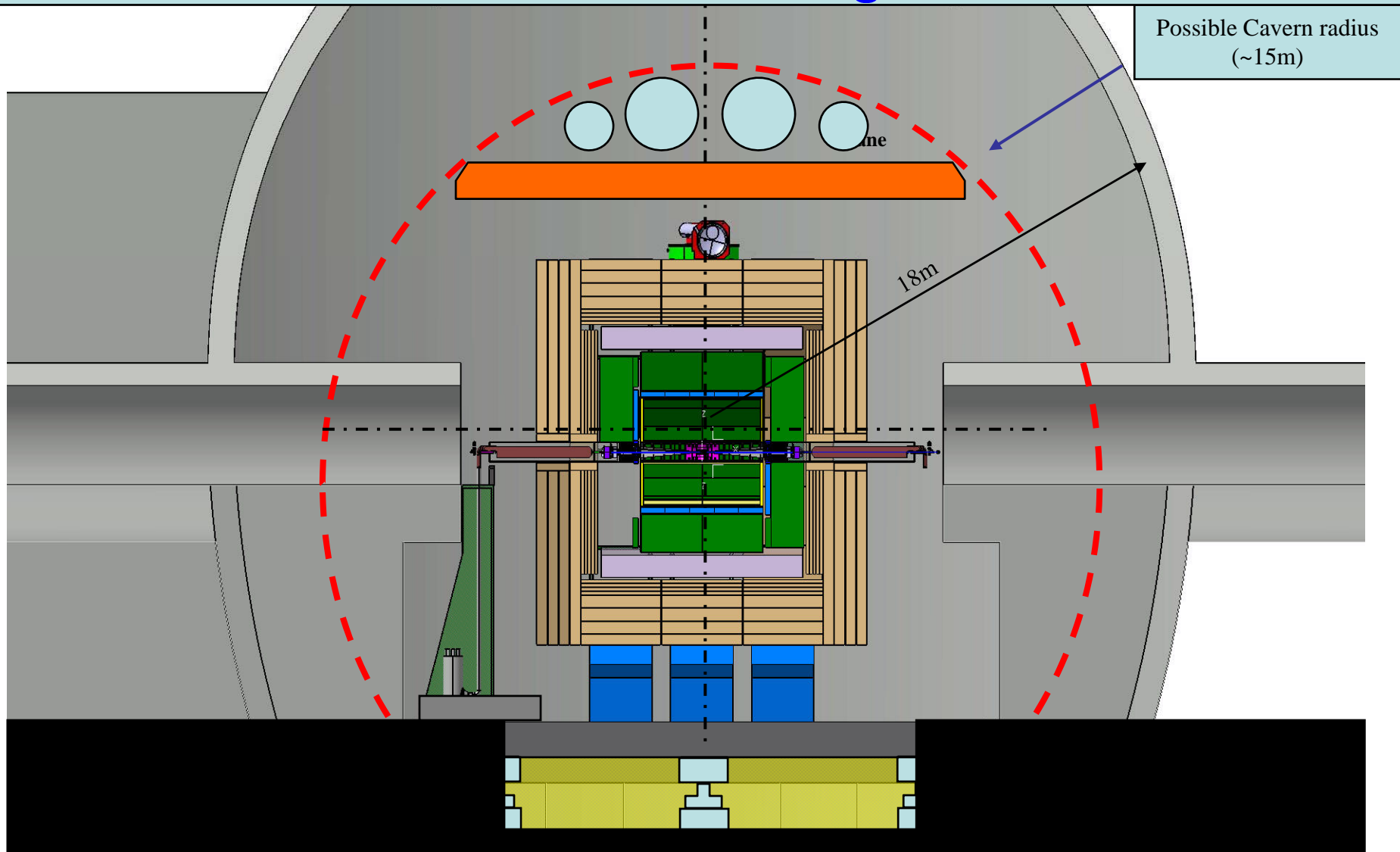
Tentative horizontal separations



by shifting one false floor module

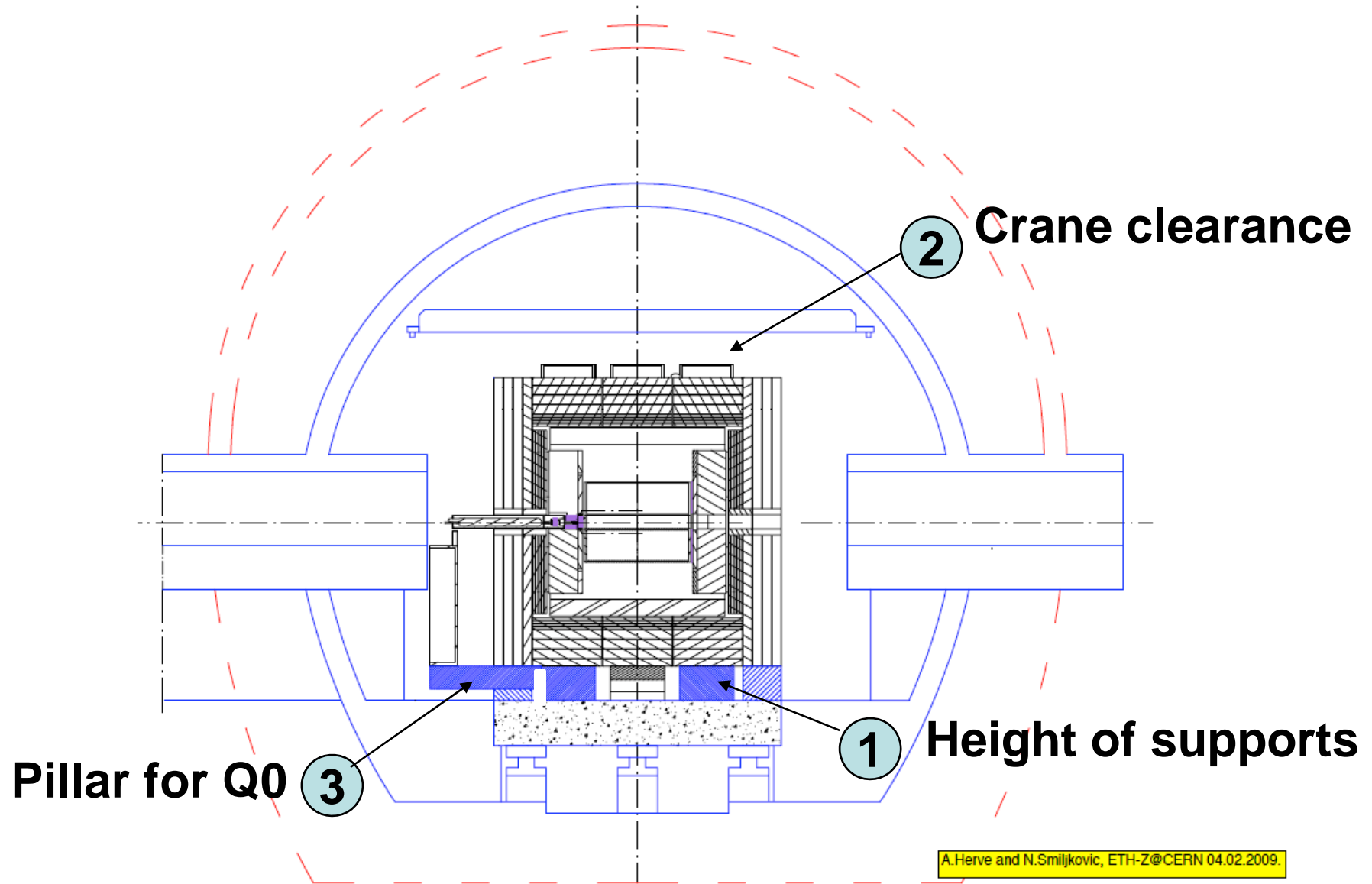


An effort has been made to reduce the radius of the Underground Hall





We have played on three parameters to try to reduce hall diameter





Simple opening in garage position Using last Matthieu's drawing

QuickTime™ et un
décompresseur
sont requis pour visionner cette image.

**Q0 pillars shifted,
connections by
flexible lines**



Q0 recessed in endcaps

4. m
←→

QuickTime™ et un
décompresseur
sont requis pour visionner cette image.



Q0 recessed and Central Barrel shifted

← 6. m →
QuickTime™ et un
décompresseur
sont requis pour visionner cette image.



Small alcove allowing to decouple Q0 from endcap

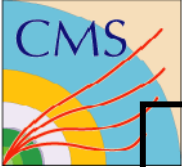
QuickTime™ et un
décompresseur
sont requis pour visionner cette image.

Top view

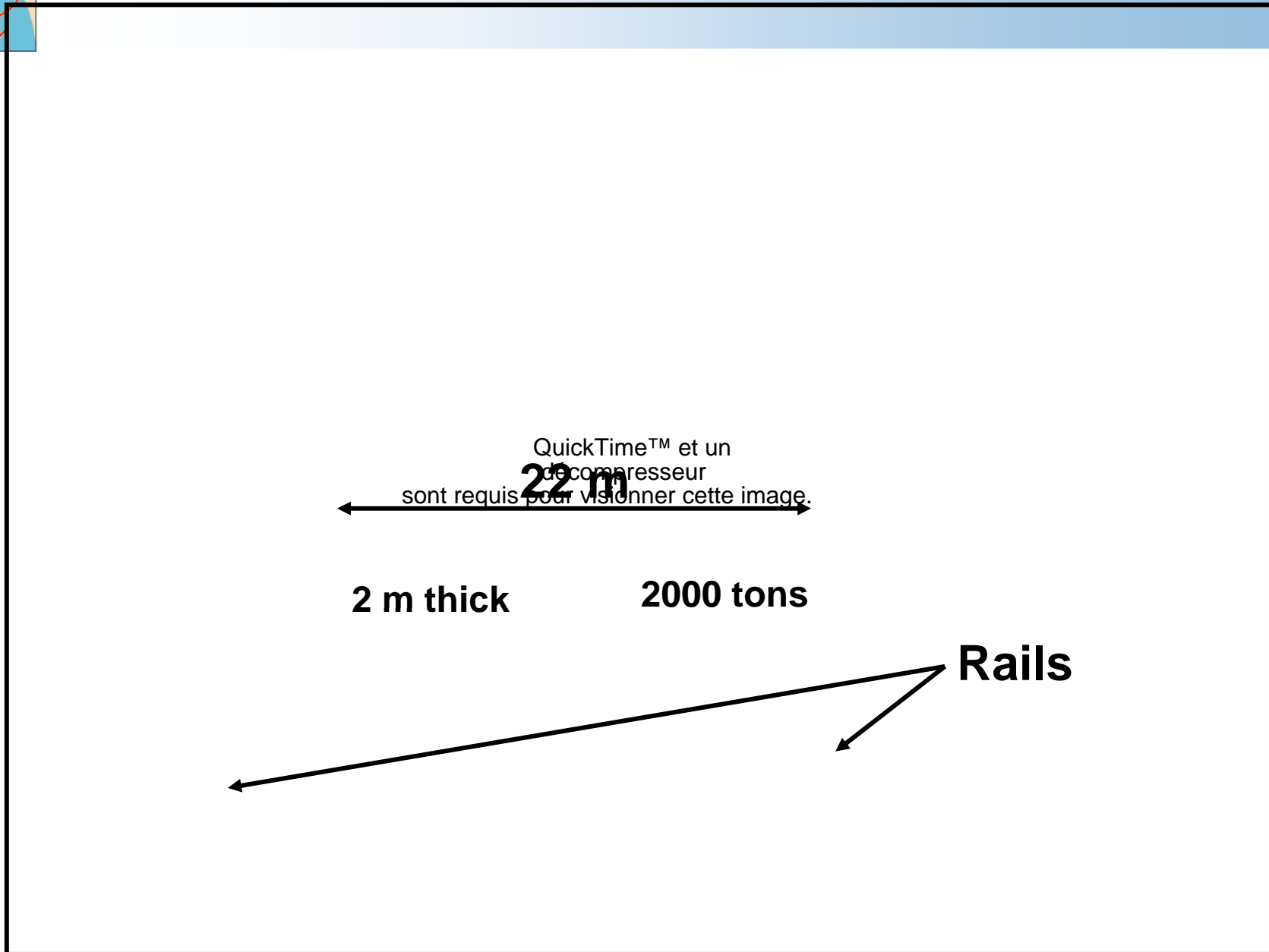


Advantages of platform for push-pull operation

- **The use of a platform is well adapted to ILD sectioning and construction.**
- **With the use of airpads and indexing system, this should allow a millimetric repositioning.**
- **The presence of the platform can be taken advantage of to isolate the experiment from seismic events and from surrounding vibrations.**



The CMS plug is good example of a platform

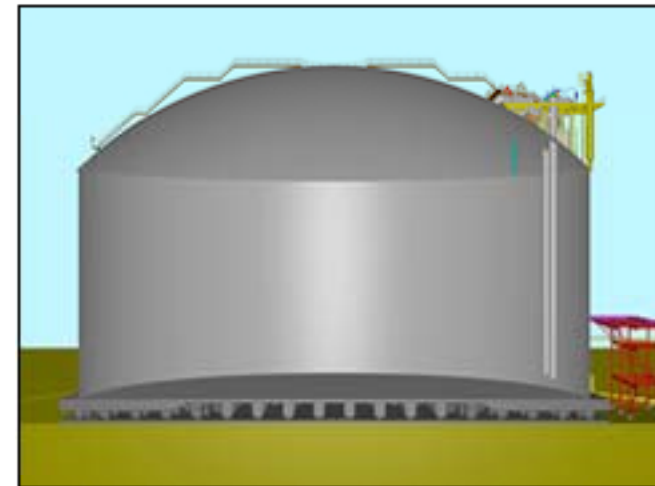




Example of anti-seismic supports that could be installed below the platform



Greece LNG Tank



Peru LNG Tank