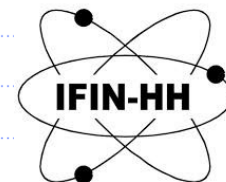


TRD – 2D installation proposal

Bucharest-TRD group



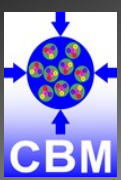
www.ifin.ro



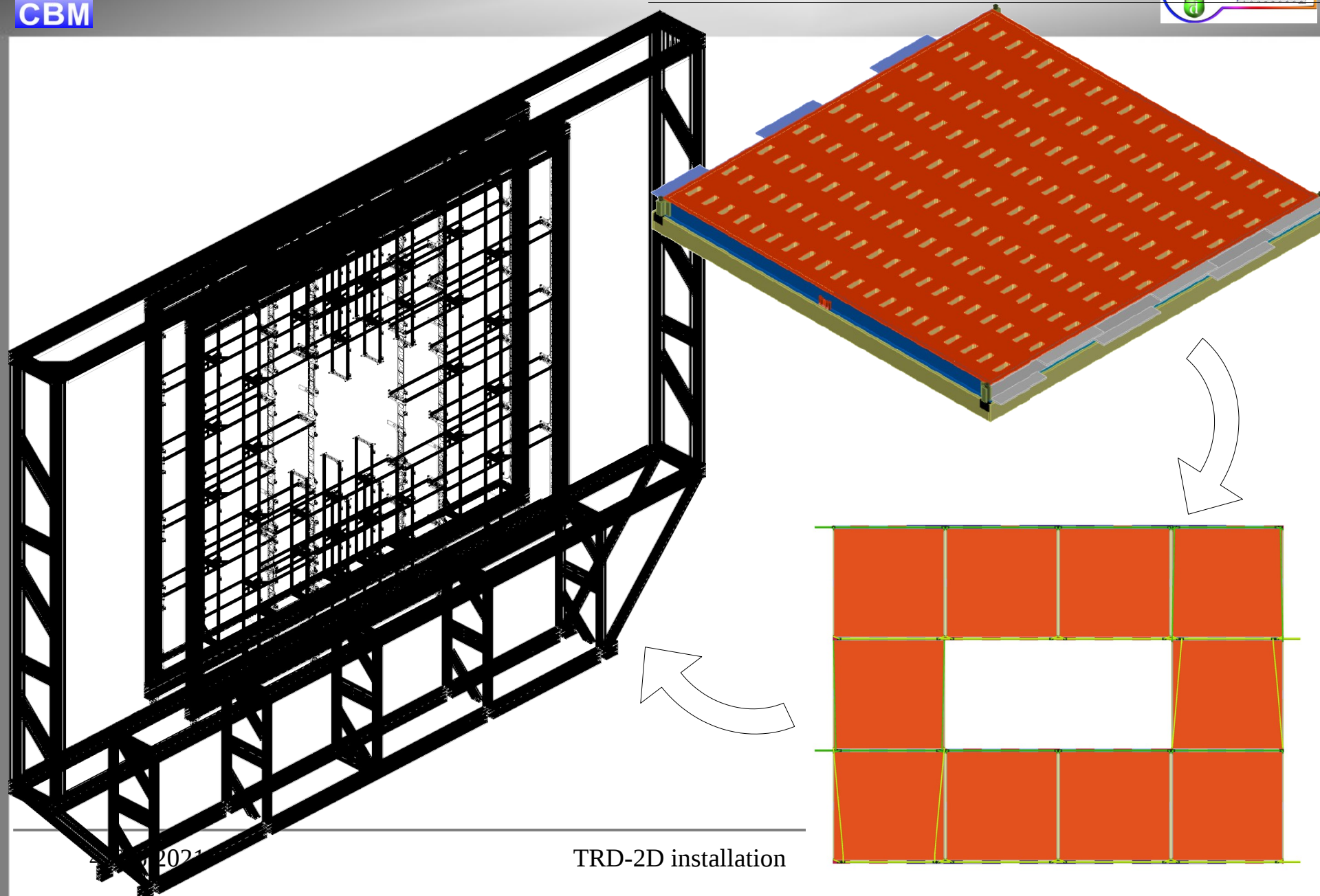
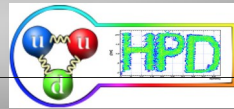
DFH Meeting

Layout of installation plan document

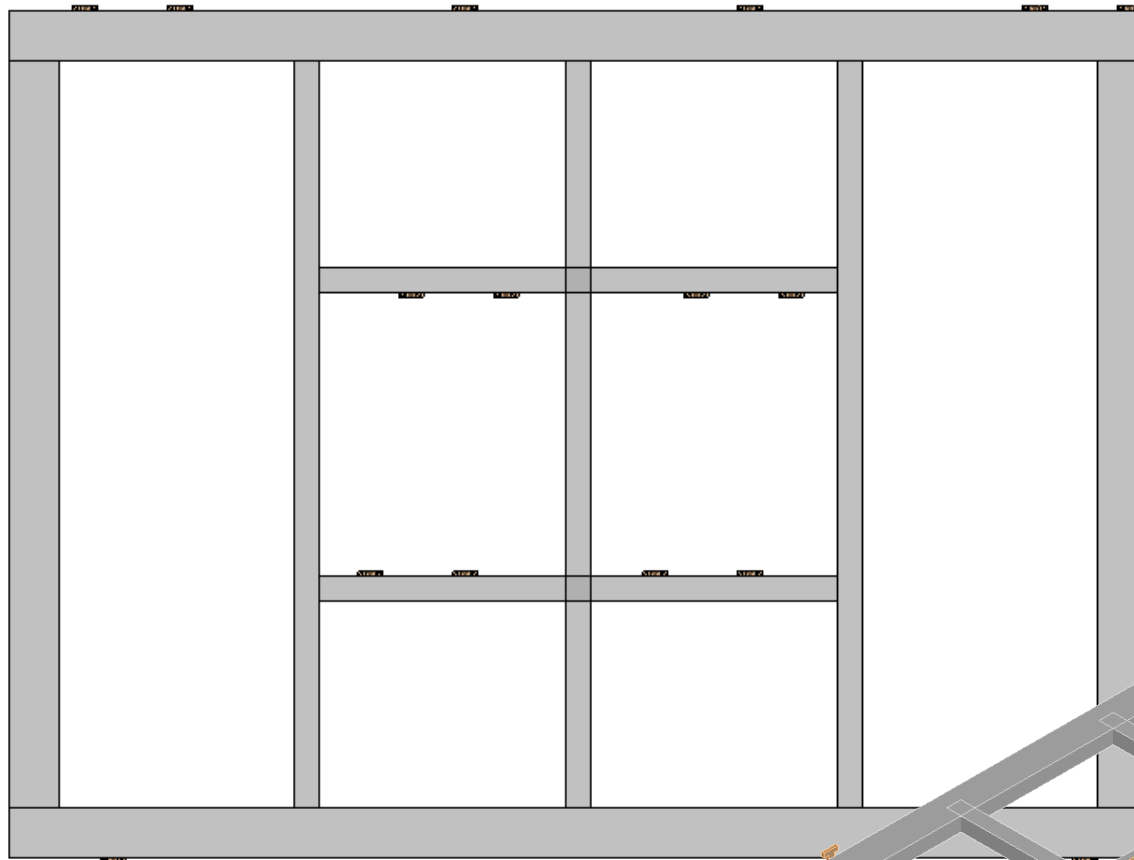
1. Pre-assembly and QC in home institution: Ready for delivery
 2. Transport: packaging, handling during transportation, delivery
 3. Interim storage at FAIR or other institutions (needed space, room conditions)
 4. Pre-assembly at foreign institutions or at FAIR/CBM
 - a. needed space, needed special equipment, needed tools, multiple locations (e.g. assembly and debugging)
 - b. needed resources in terms of people and time before installation
 - c. identify time window(s) needed, sharing of available space
 - d. installation of detectors/modules
1. **Module wise (ROC+FEE)**
 - All services ready for connection
 2. **YES**
 3. **Wooden boxes of approx. 1 m³ (10 modules)**
 - Max 4 boxes at a time + fittings
 - Room temperature and cleanliness
 4. **FAIR (inner super-module = 10 modules)**
 - a) **At least 10m², no special requirements, permanent usage**
 - b) **NO (home workers), 1-2 weeks for all**
 - c) **Depends on other TRD activities**
 - d) **Inner super modules – TENSION WITH THE BEAM PIPE INSTALLATION**



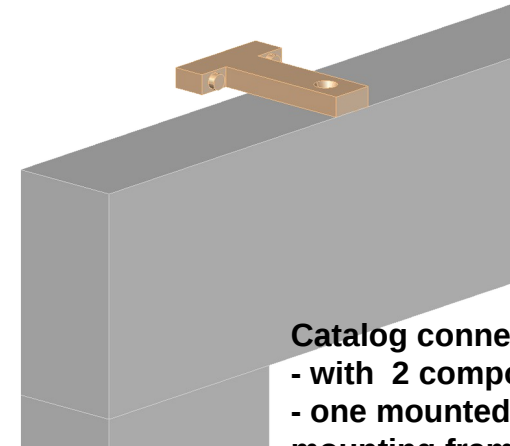
Module \rightarrow Supermodule \rightarrow Experimental hall



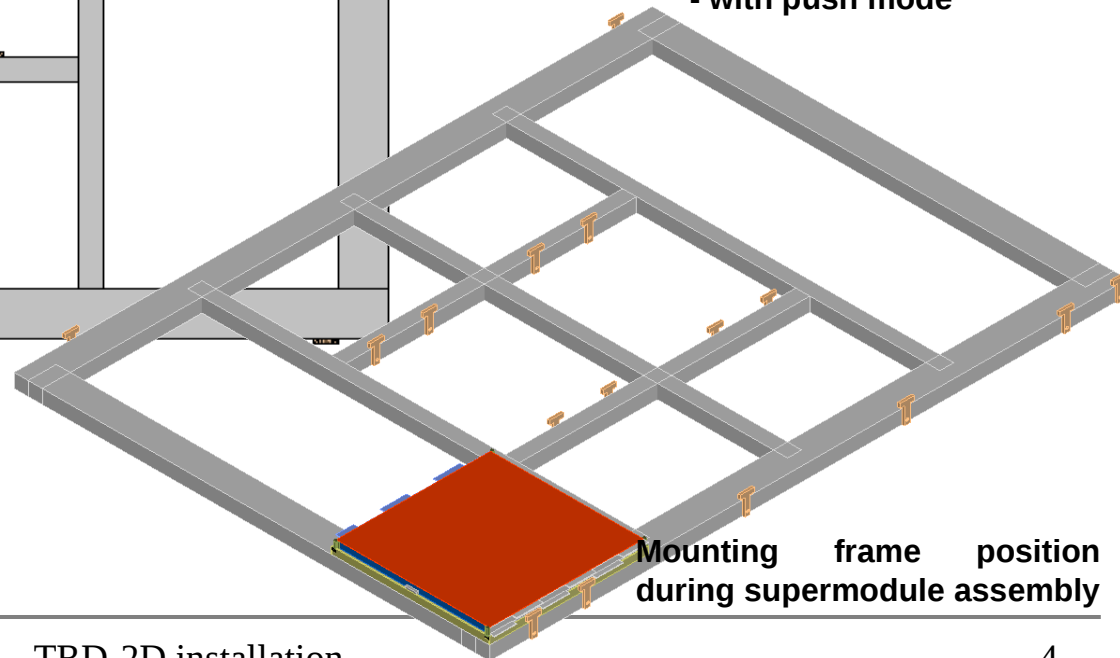
TRD-2D installation



MOUNTING FRAME

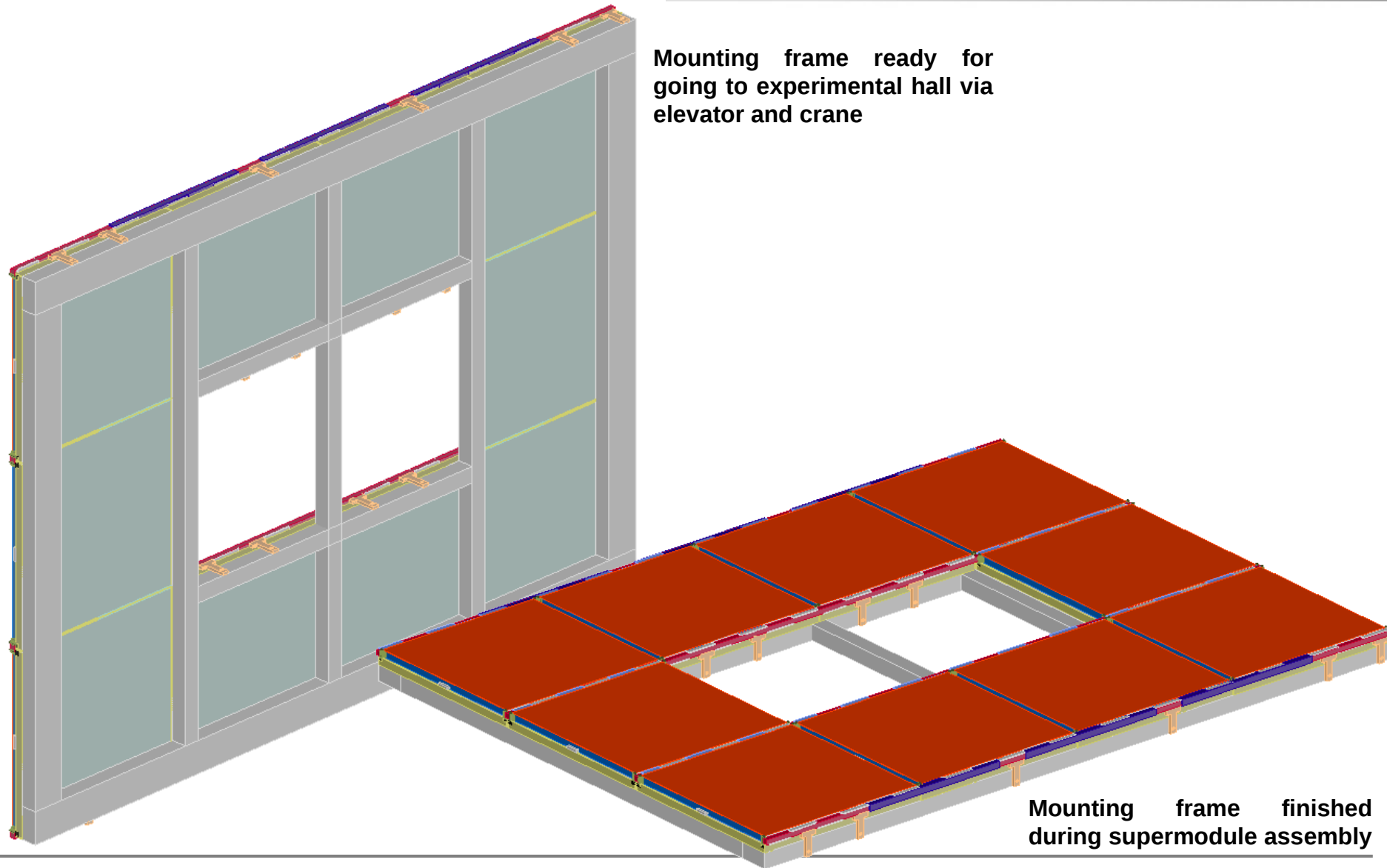


Catalog connection system
 - with 2 components,
 - one mounted on the mounting frame the other on the TRD-2D structure,
 - with push mode



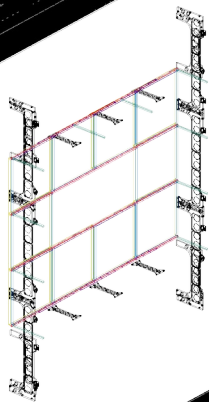
Mounting frame position during supermodule assembly

Mounting frame transport to experimental hall

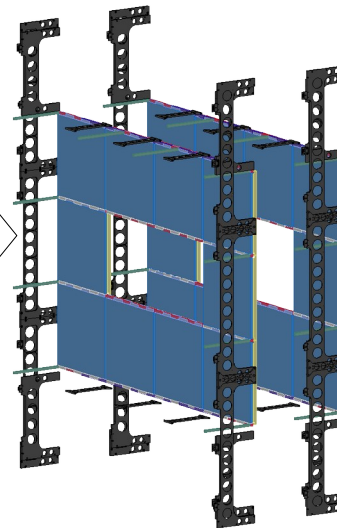


Mounting on the TRD frame

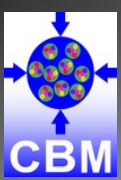
BEFORE



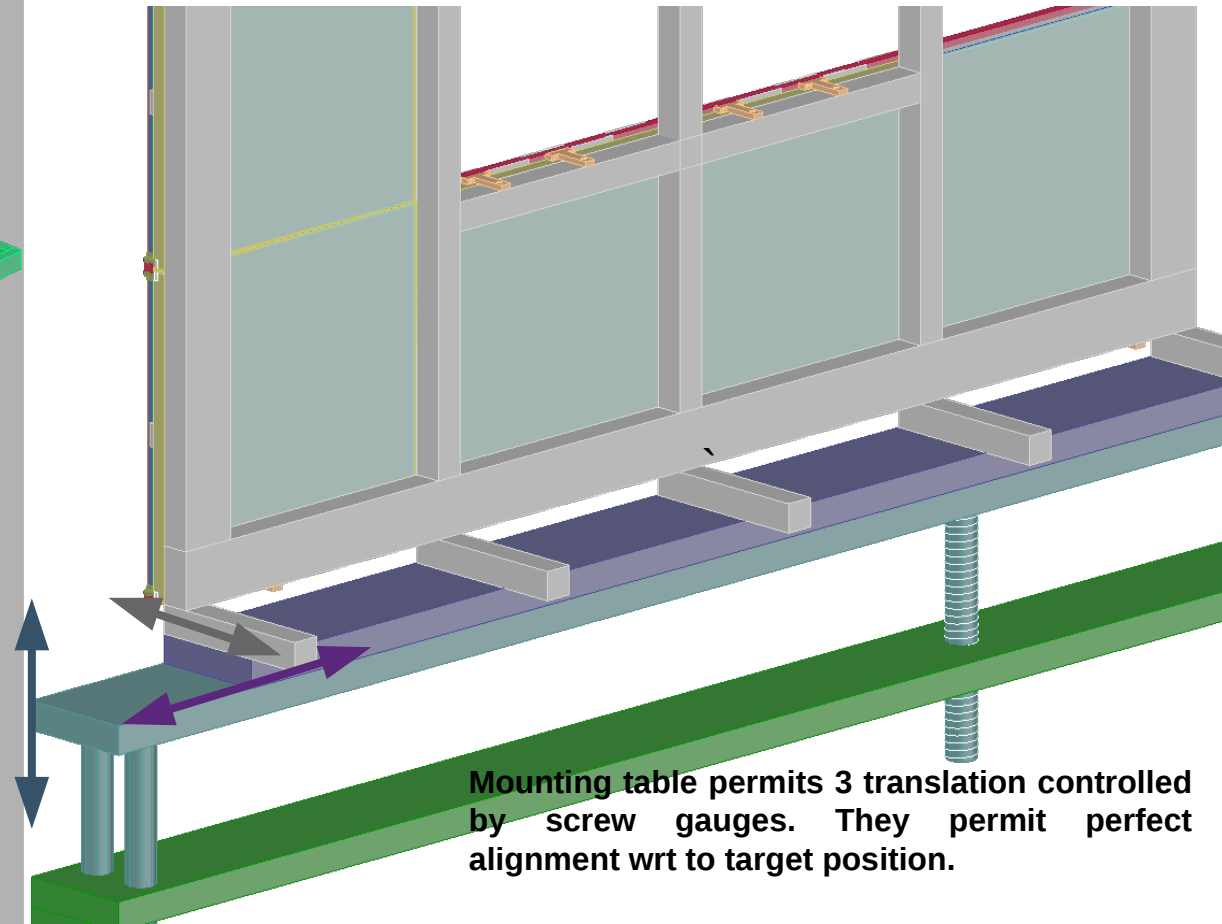
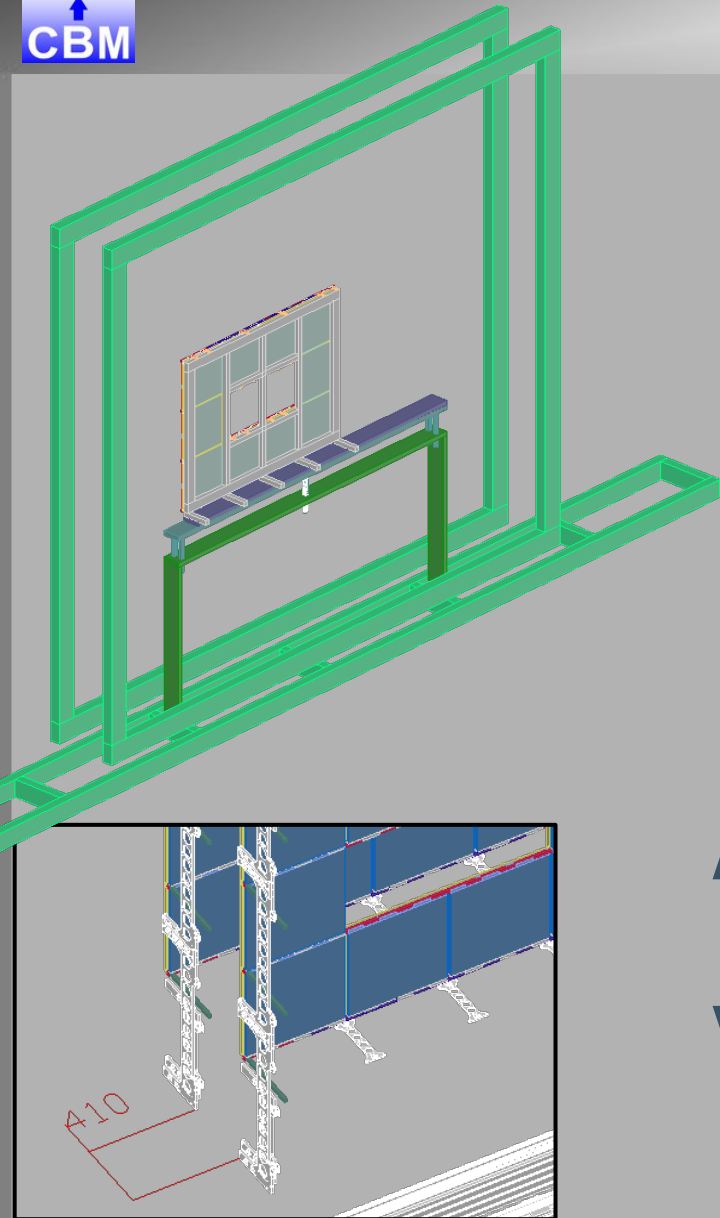
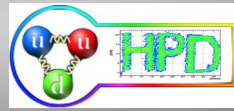
*With
precise alignment
wrt. TARGET*



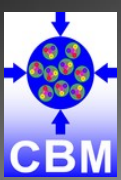
AFTER



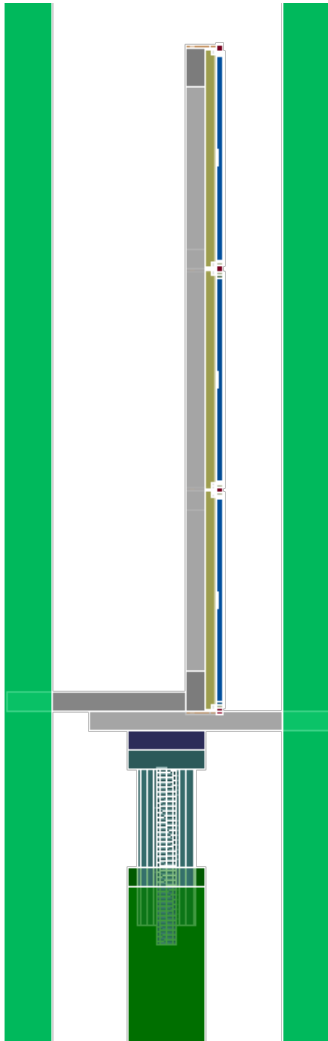
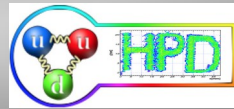
Mounting Table



Mounting table permits 3 translation controlled by screw gauges. They permit perfect alignment wrt to target position.

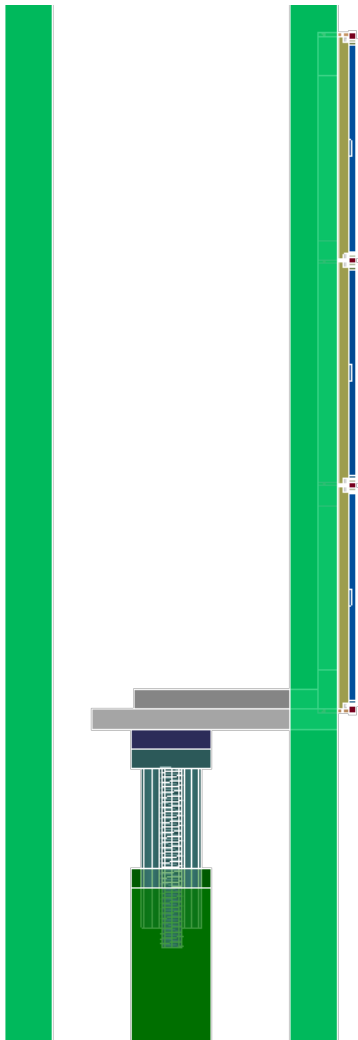


Inserting and extracting the TRD-2D



**Lateral view of the installation system
after adjusting on vertical and parallel
with the TRD frame
And before insertion in the wall**

Inserting and extracting the TRD-2D



**Lateral view of the installation system
after insertion in the TRD frame**

Hanging the TRD-2D in place and fix

Decoupling the connectors

Extract the mounting frame