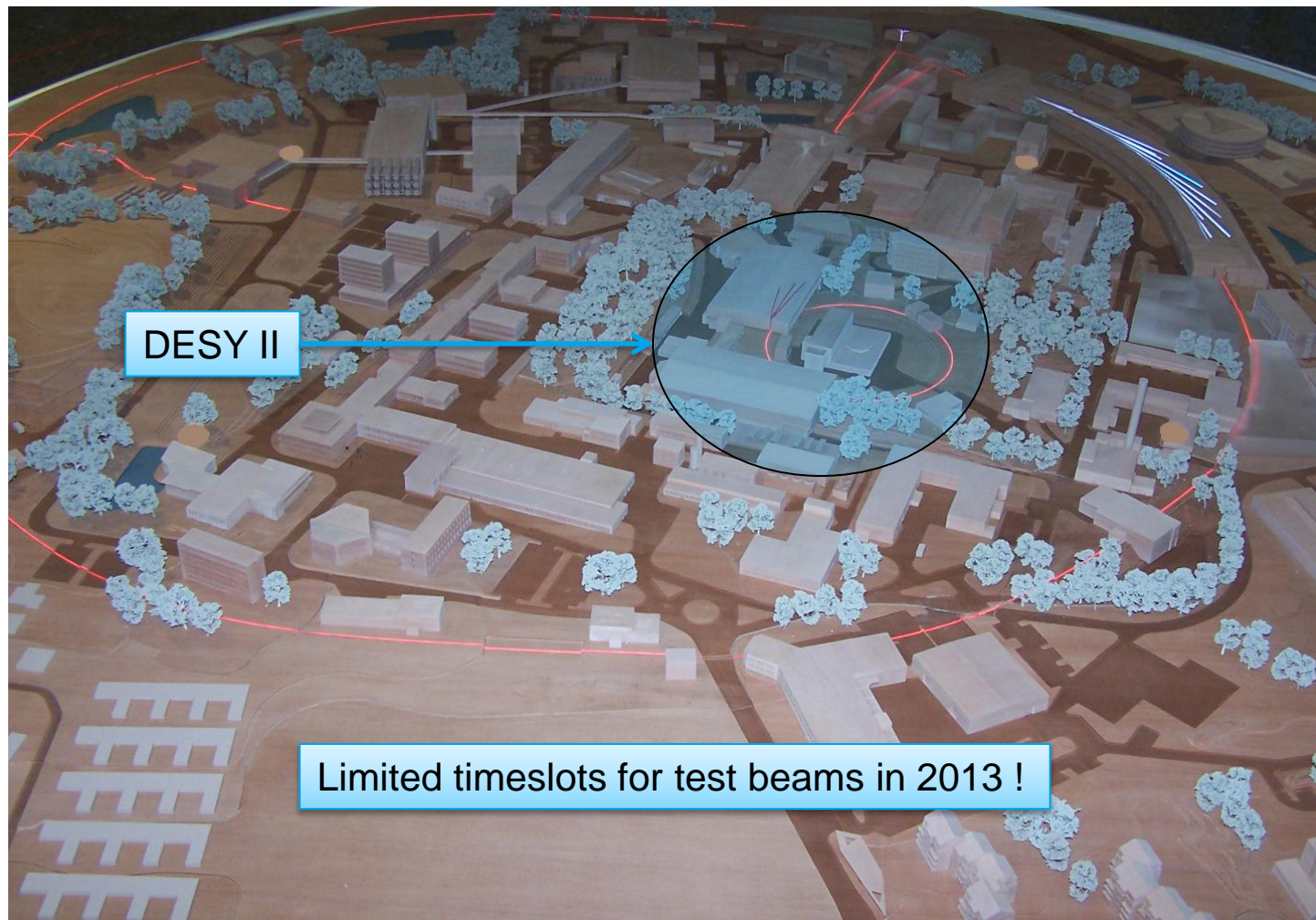


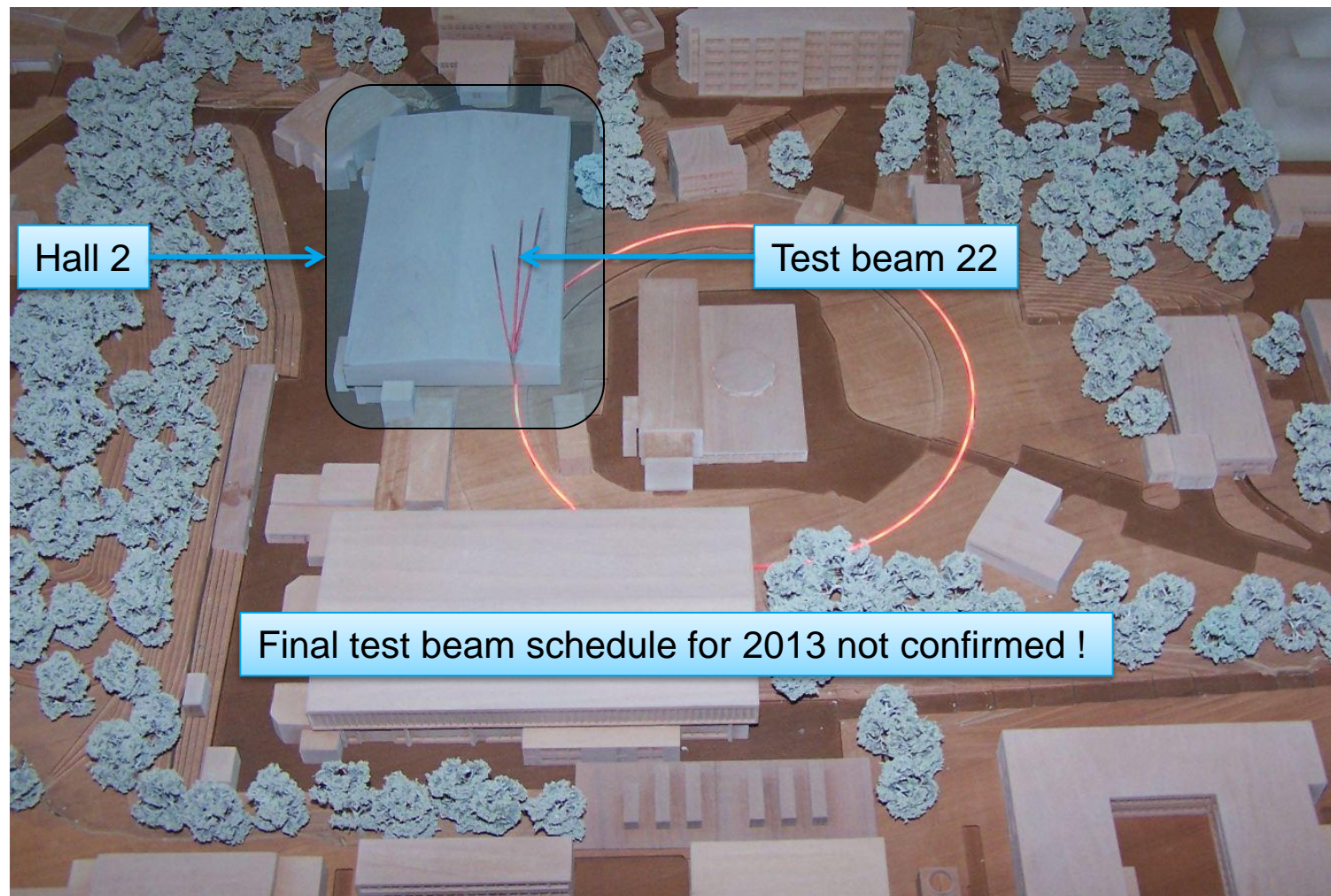
# AHCAL

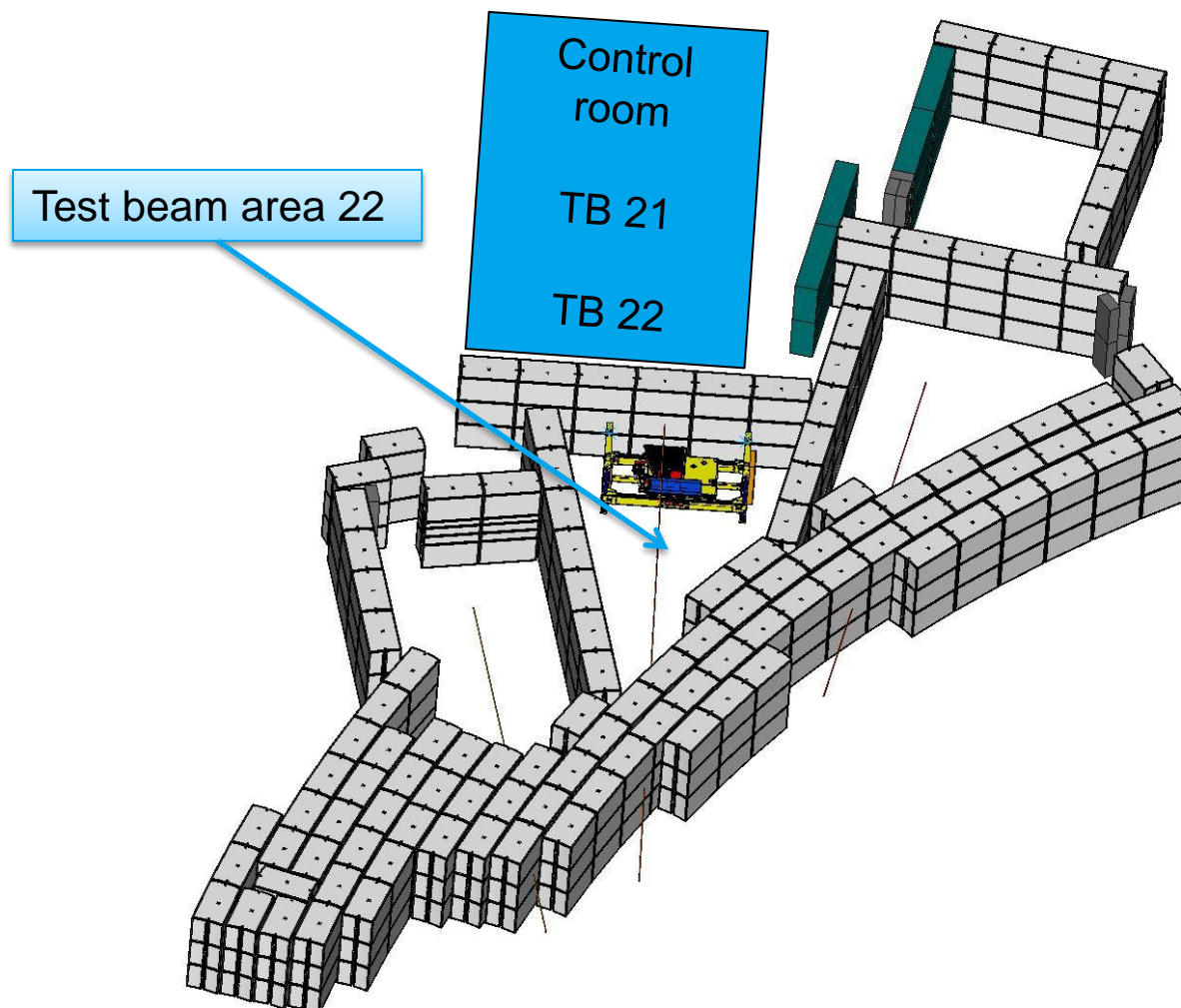
Test beam activity

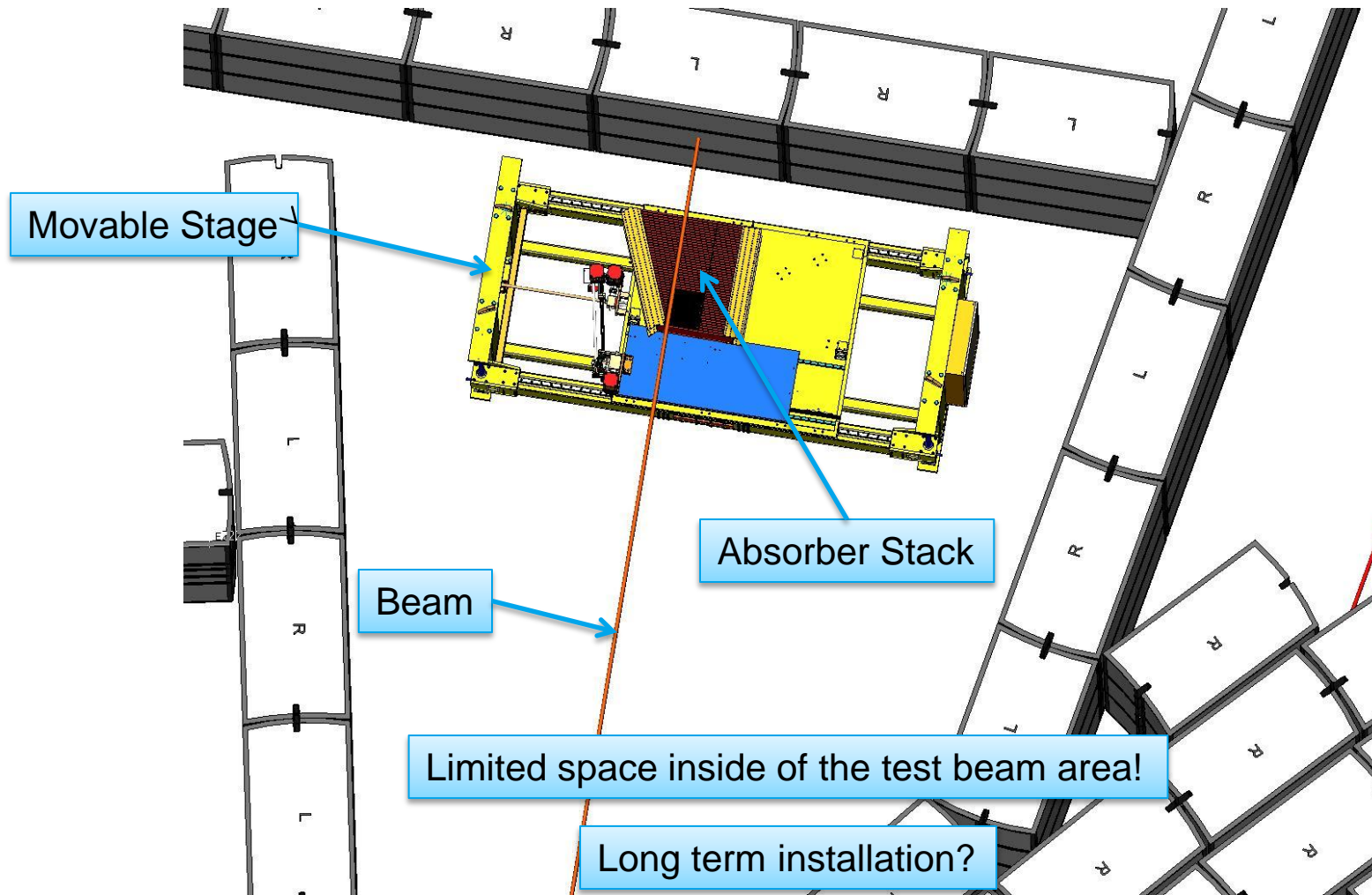
## status report

Karsten Gadow  
AHCAL Main Meeting  
DESY, 11.12.2012



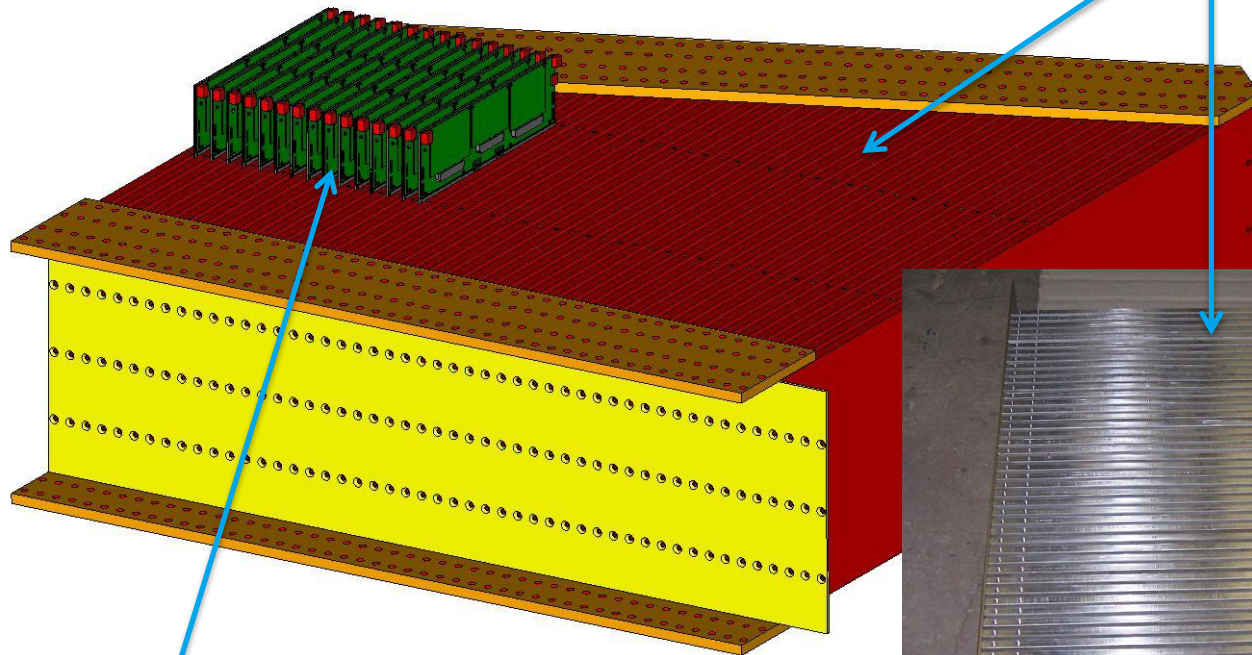






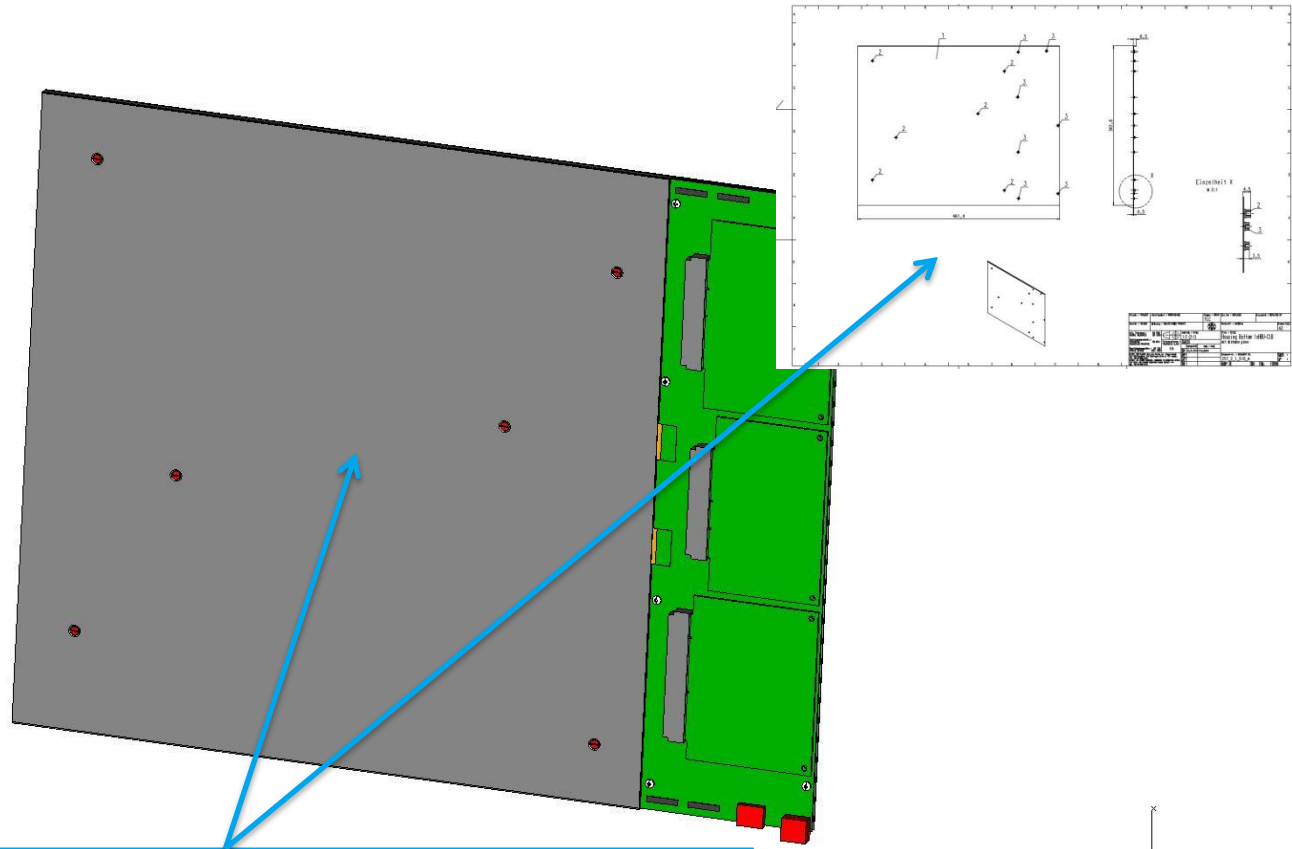
Supply and read out scheme?

2 Absorber stacks ready



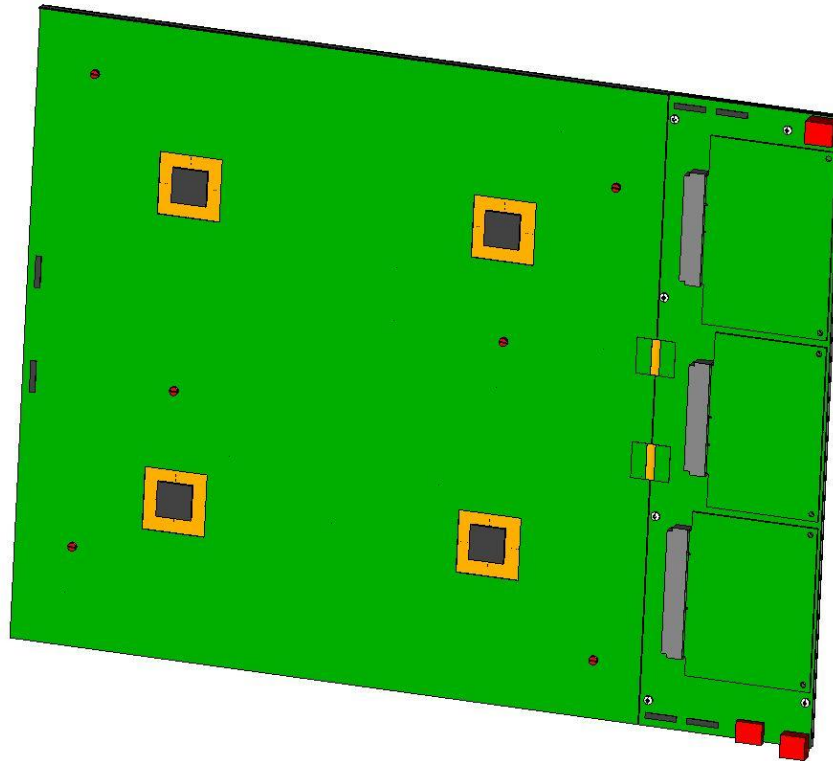
15 detector layers are missing





15 pieces 1xHBU housings will be produced at DESY

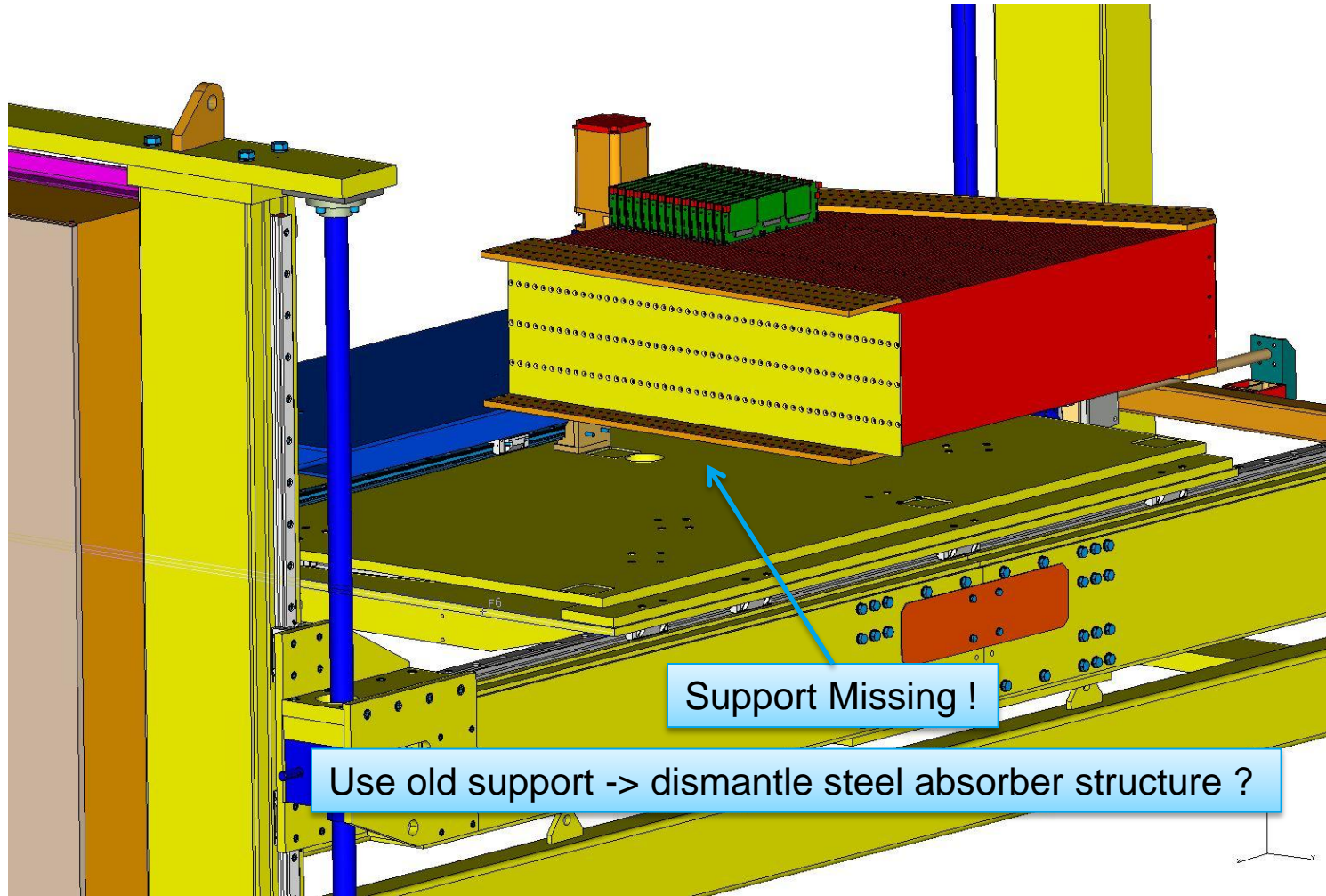
15 HBU's with CIB's has to be mounted and commissioned



all 15 layers has to be tested in test beam with air stack

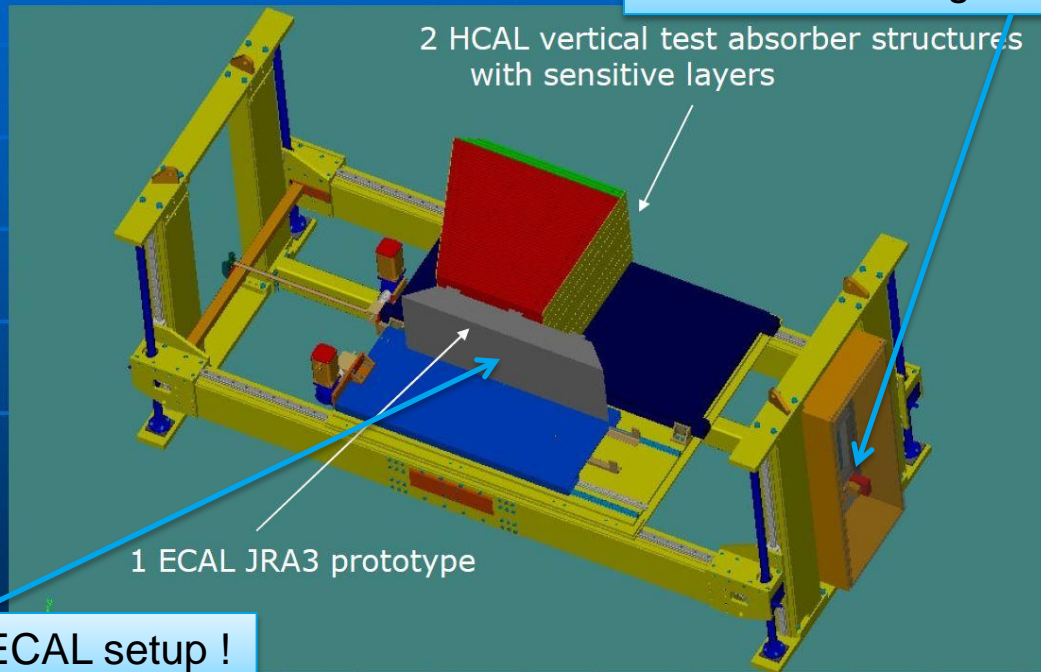






## Test beam setup V2

new GUI for Stage Control upgrade ?



need input for ECAL setup !

17.09.2009

K.Gadow - DESY

12



## Task list (Summary):

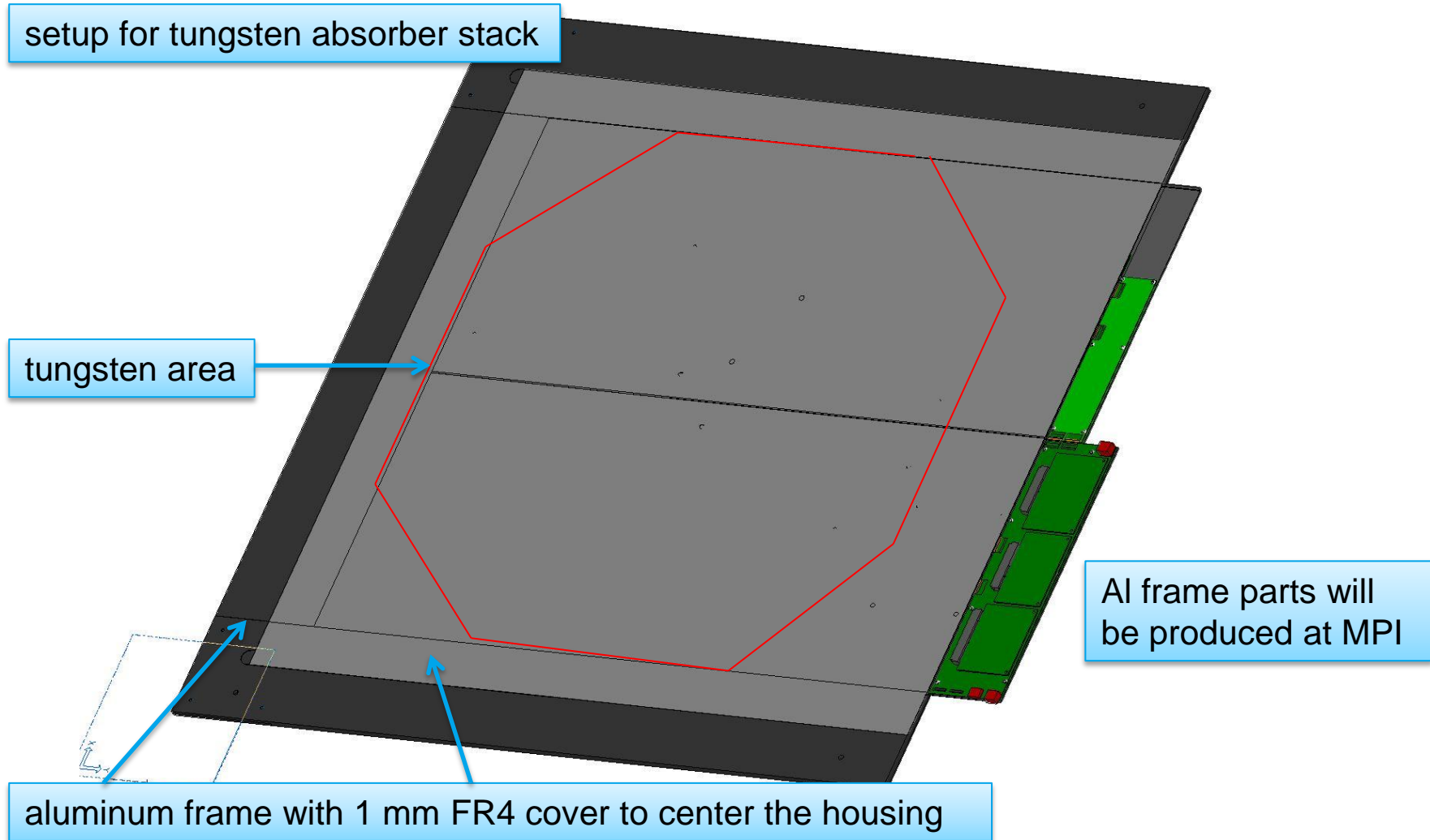
### > Test beam setup with Movable Stage

- position inside the TB 22 area
- test beam schedule must be fixed (Calice internal)
- supply and read out scheme
- install support for absorber structure used or new design
- install old or new GUI for Movable Stage control
- integrate ECAL (support, supply and readout)

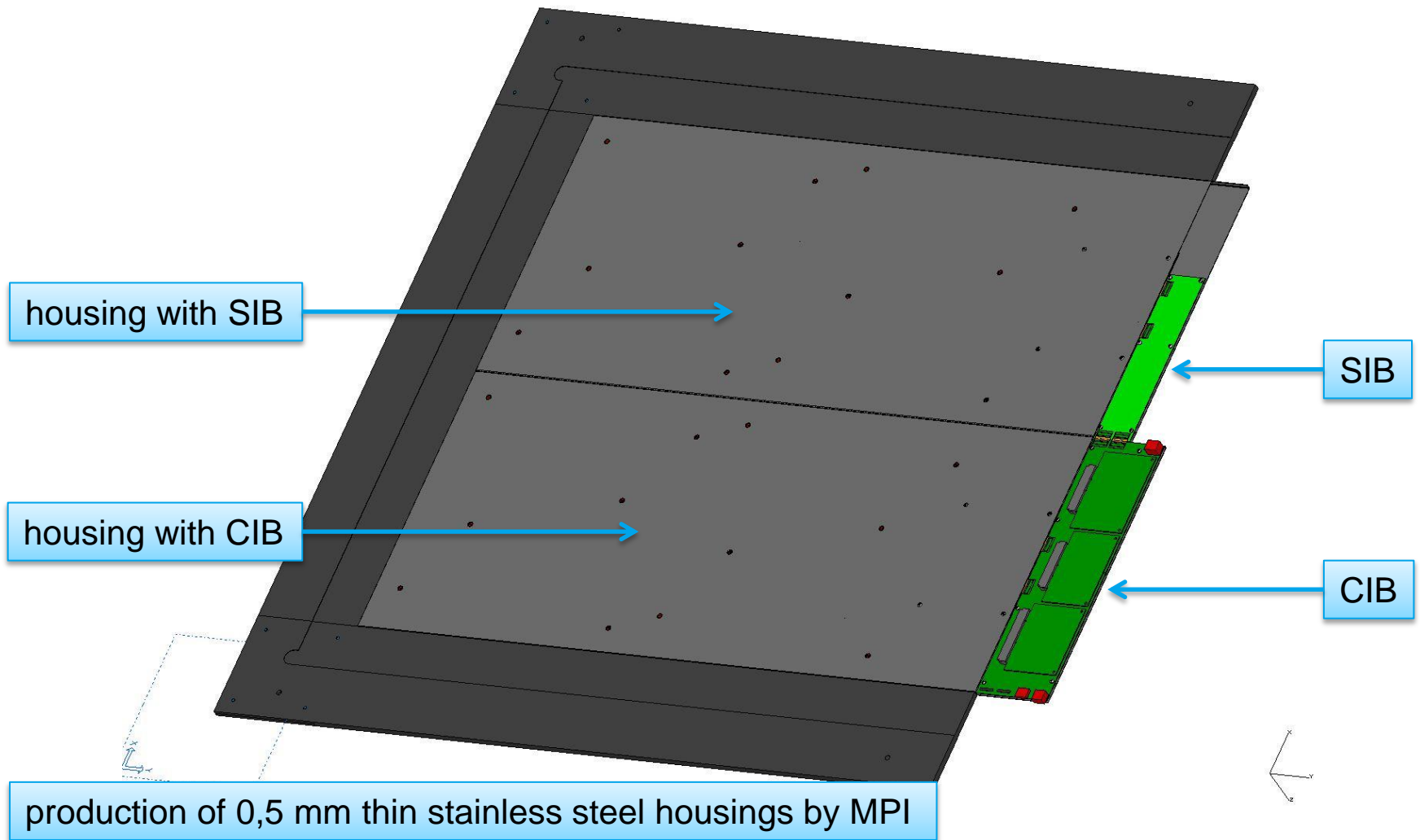
### > Detector layer production

- production of 15 pieces 1xHBU housings
- production of 15 HBU's and install tiles
- commission and beam test in air

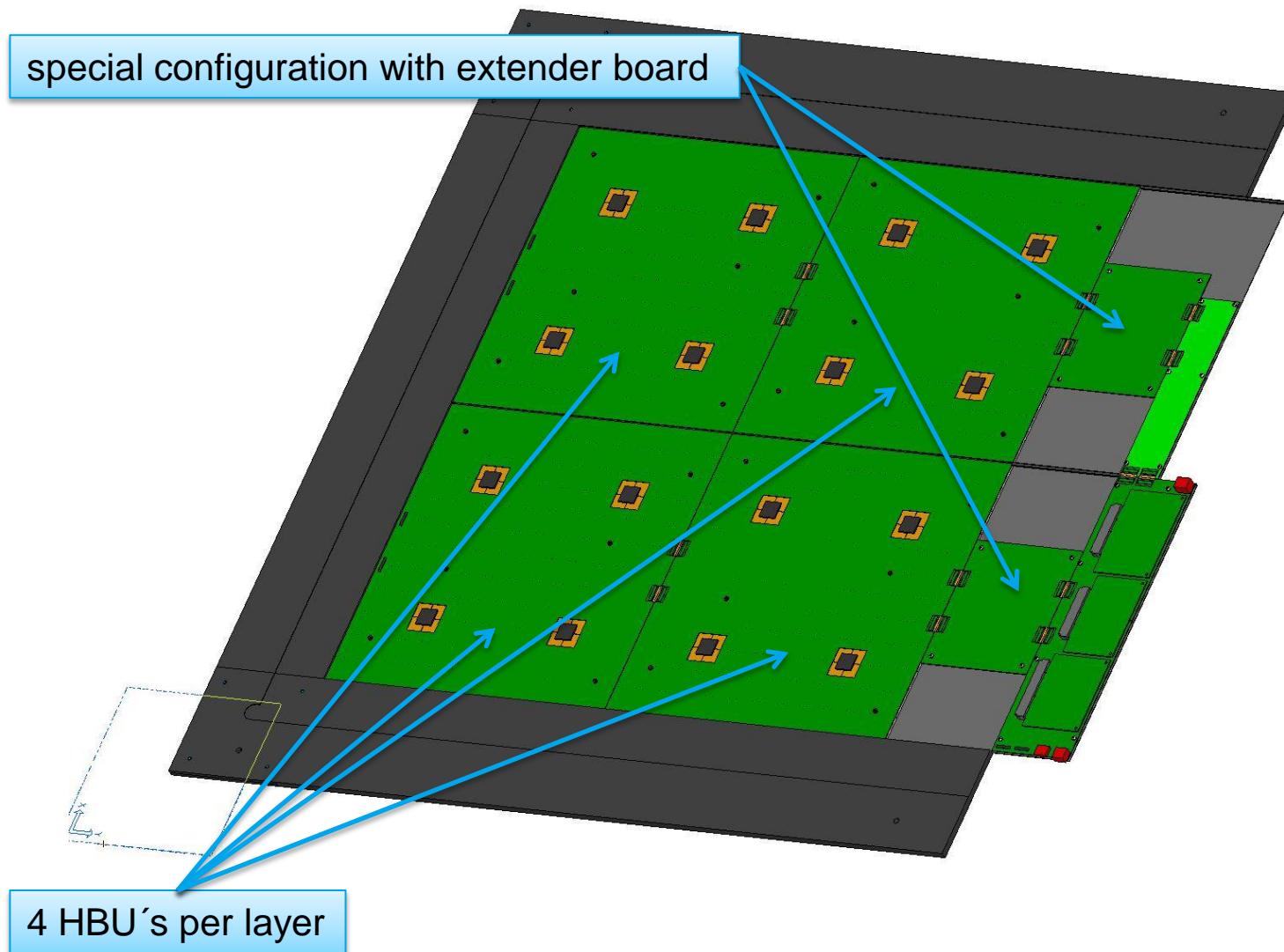
# AHCAL CERN test beam (Tungsten Stack)



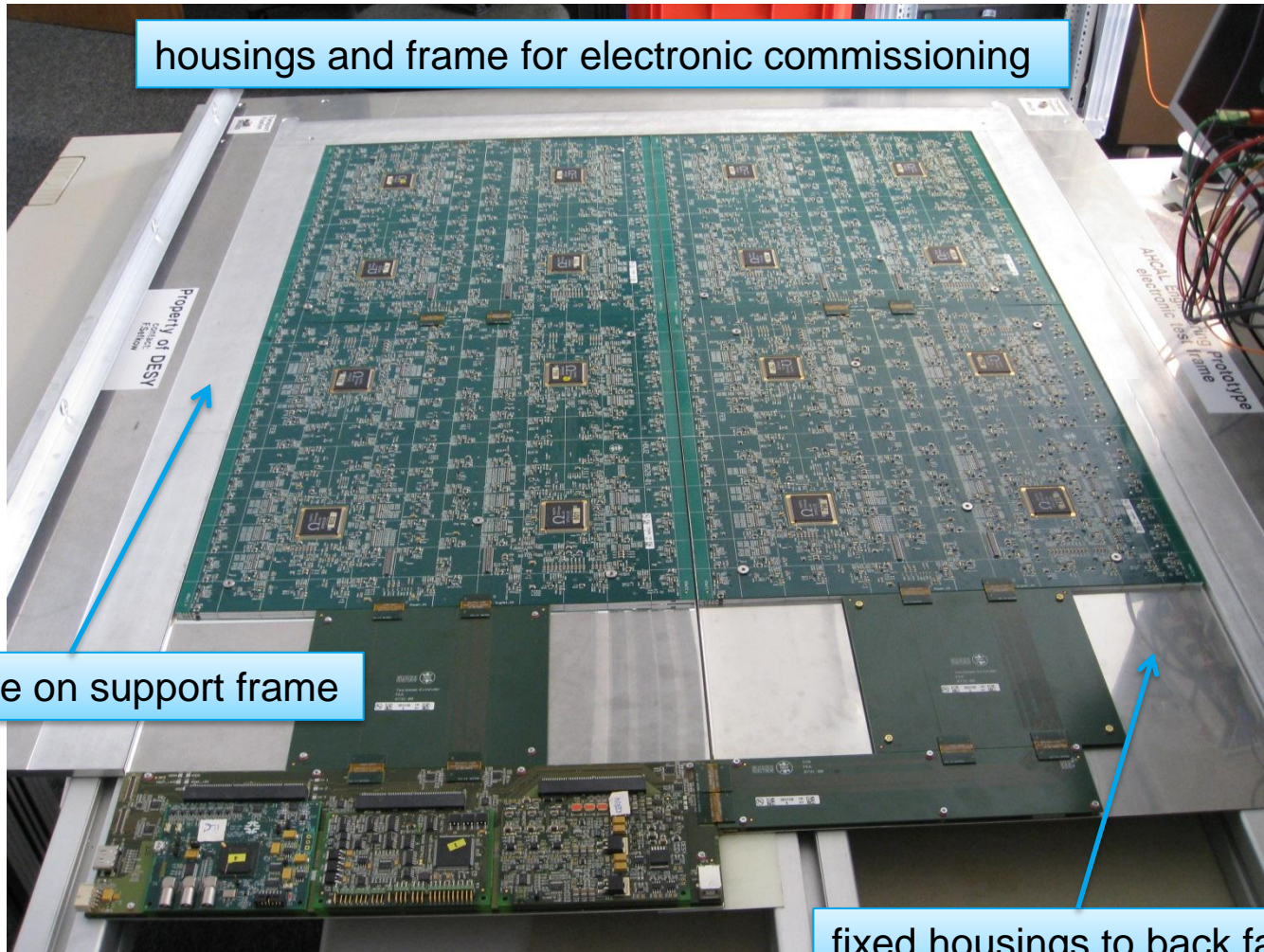
# AHCAL CERN test beam (Tungsten Stack)



# AHCAL CERN test beam (Tungsten Stack)



# AHCAL CERN test beam (Tungsten Stack)

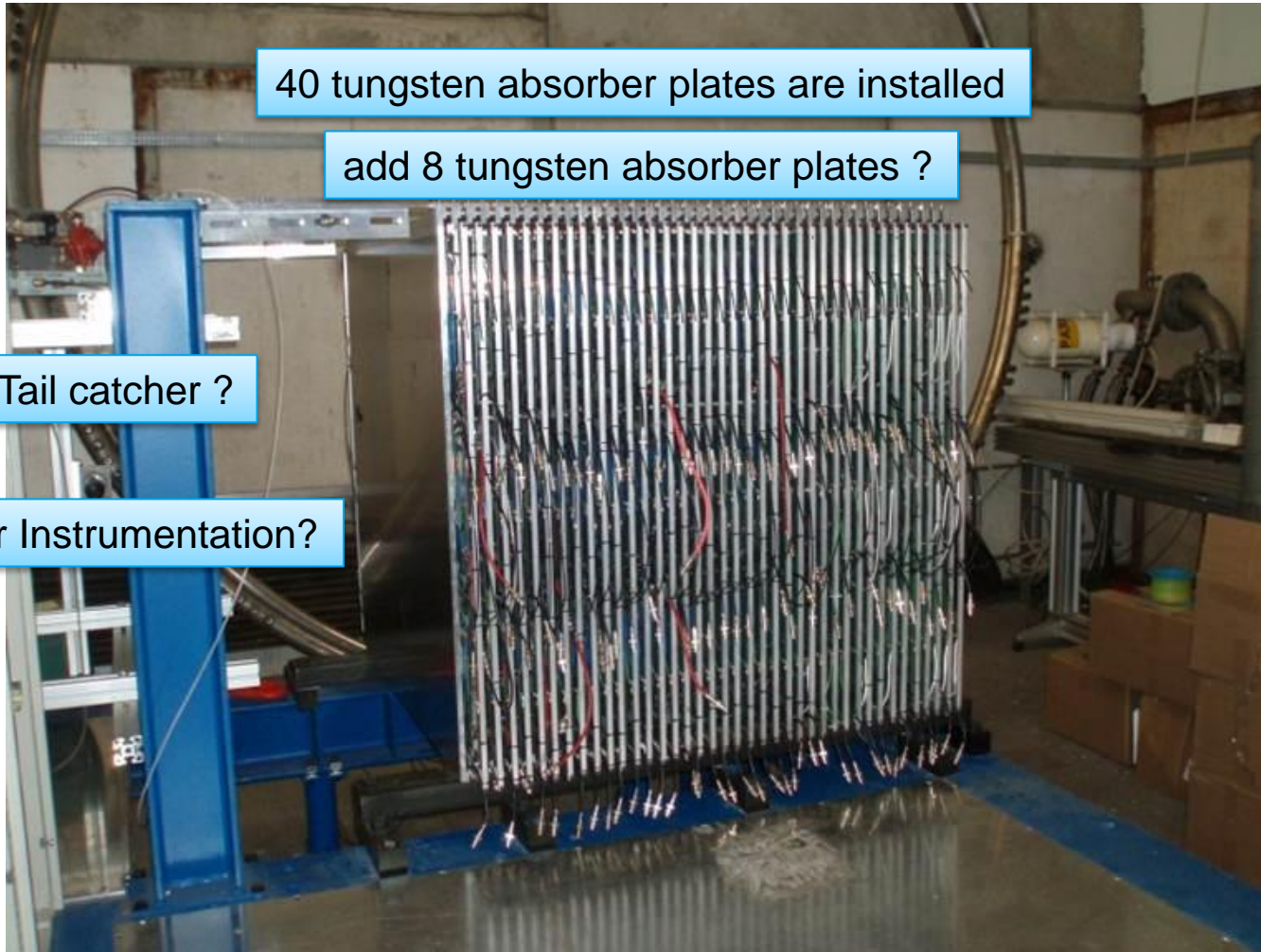


housings and frame for electronic commissioning

no front face on support frame

fixed housings to back face

# AHCAL CERN test beam (Tungsten Stack)



40 tungsten absorber plates are installed

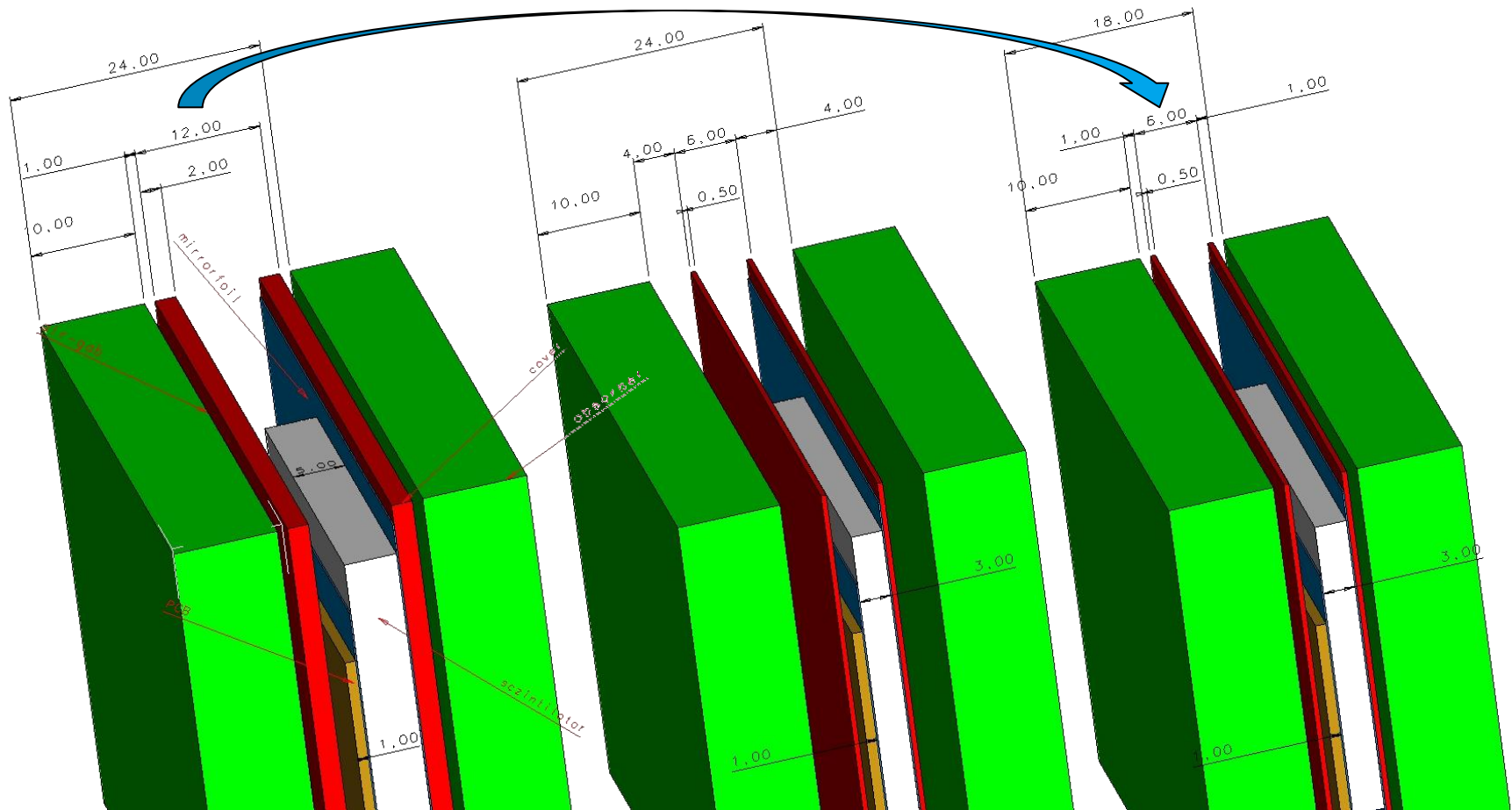
add 8 tungsten absorber plates ?

Install Tail catcher ?

Tail Catcher Instrumentation?



## Modification of the tungsten absorber structure ?



## Task list (Summary):

### > Test beam setup

- configuration 48 layers?
- test beam schedule must be decided (Calice internal)
- supply and read out scheme
- modify absorber structure

### > Detector layer production

- production of 50 frame parts (MPI) and mounting with facing (DESY)
- production of 2 x 50 x 2xHBU-extended housings (MPI)
- production of 2 x 48 x 2 HBU's and install tiles
- commission and test

