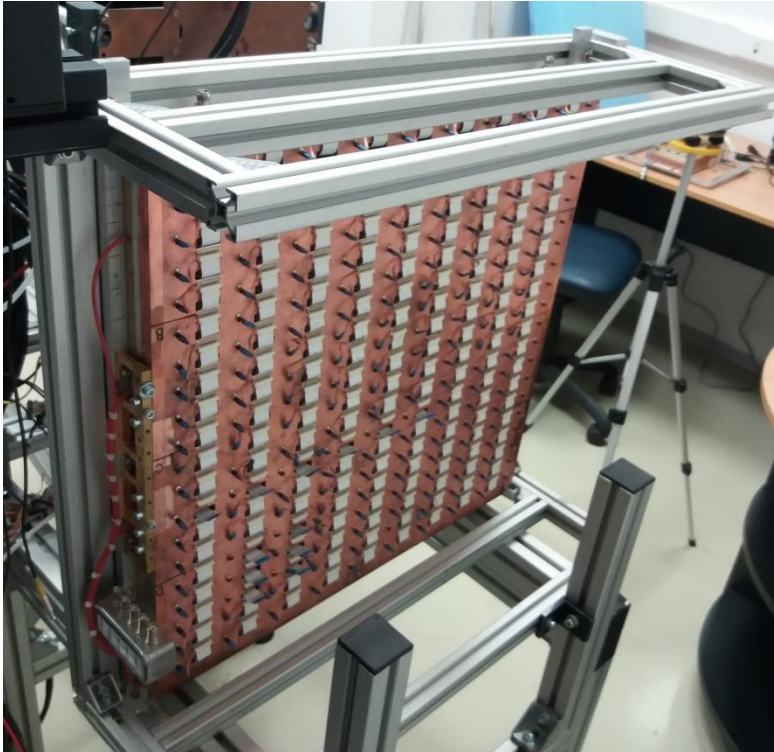


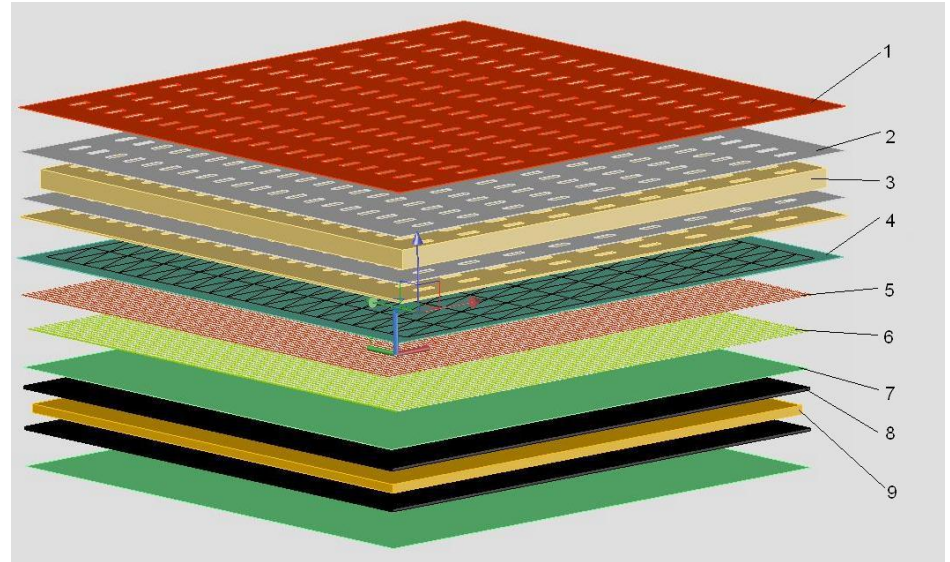
**Inner zone of the TRD wall
Construction details for
Bucharest TRD Module Type 1 (bTRD)**

Laura Radulescu for CBM-TRD Bucharest team

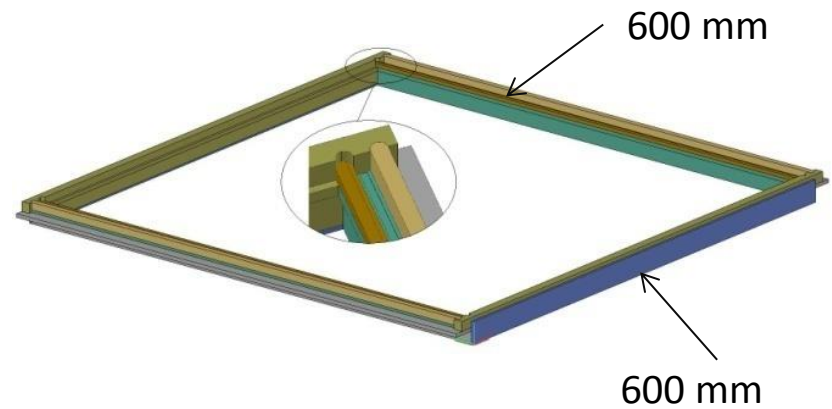
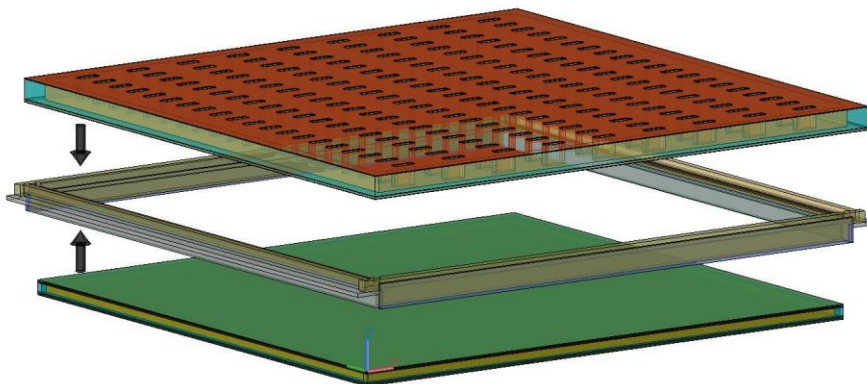
The TRD 2012 prototype



The TRD 2012 structure

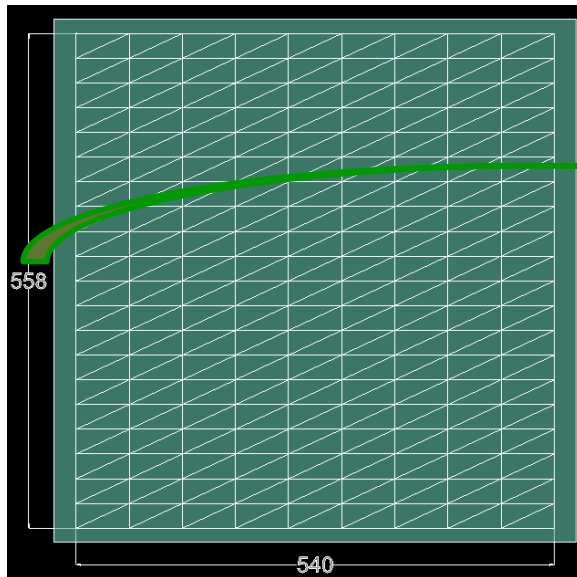


1 - Cu tape, 2 - C Fibber, 3 – Honeycomb, 4 – Pad plane, 5 – Anod wires, 6 – Kathod wires, 7 – Kapton with Al, 8 – Rohacell, 9 – Honeycomb

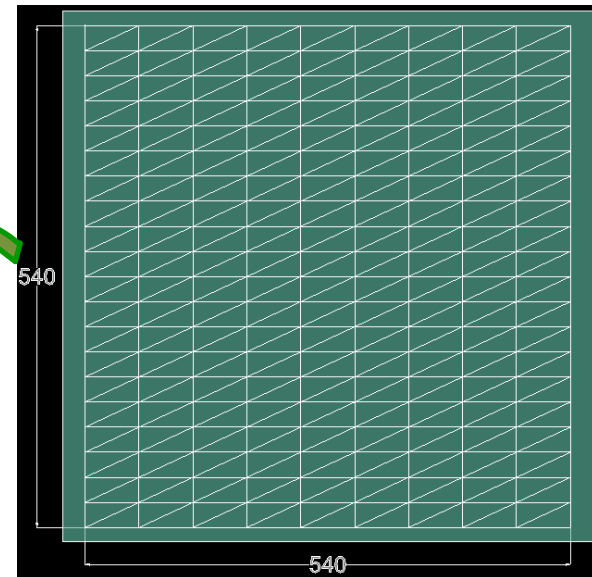


From 2012 Prototype to bTRD

2012 Prototype pad plane



The Module 5_TRD pad plane



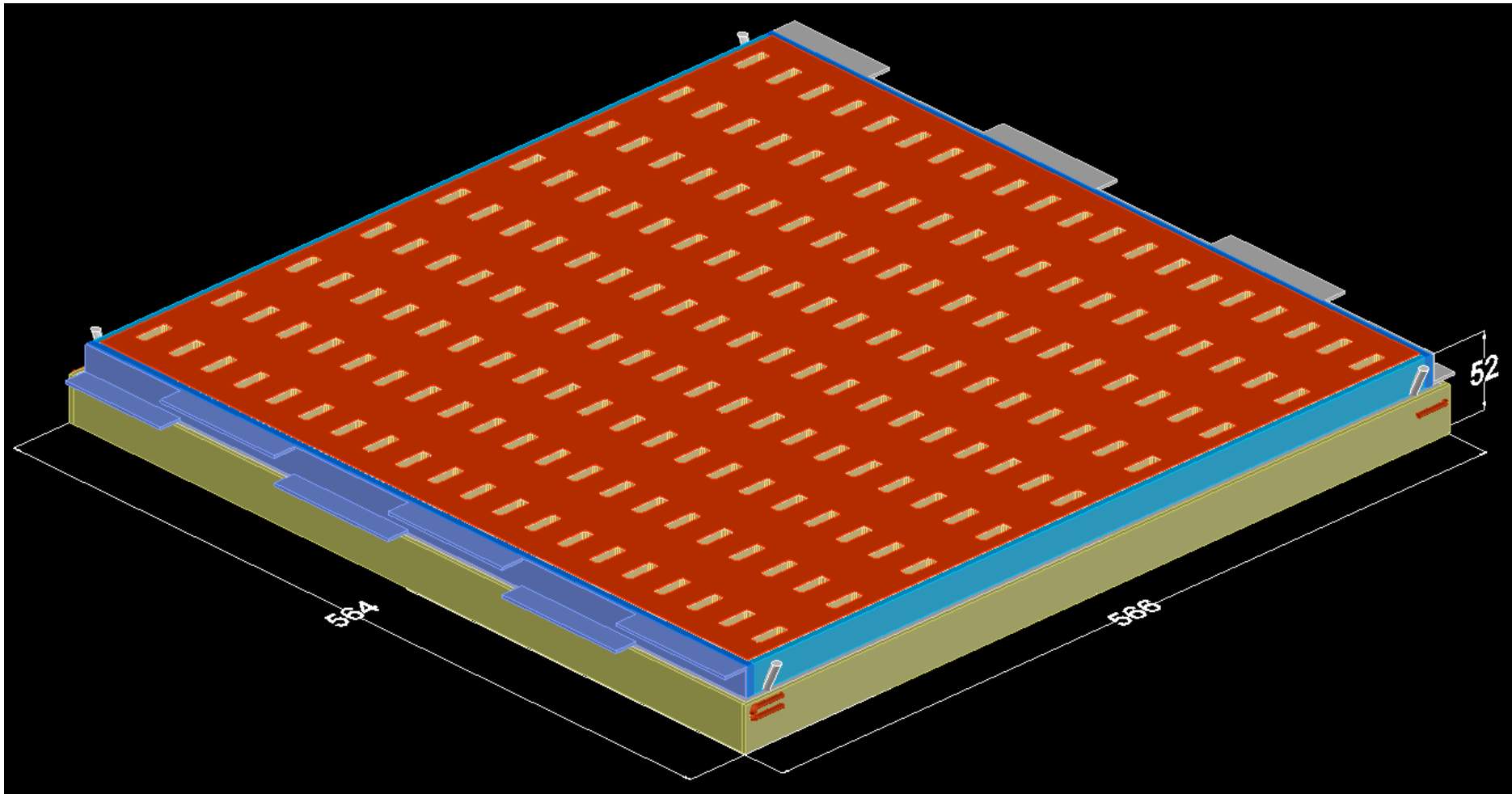
From TDR:
General dimensions are:
570mm x 570mm

After the CBM-TRD
Bucharest 2012 Prototype –
absorbtion test, the
conclusion was the follow:

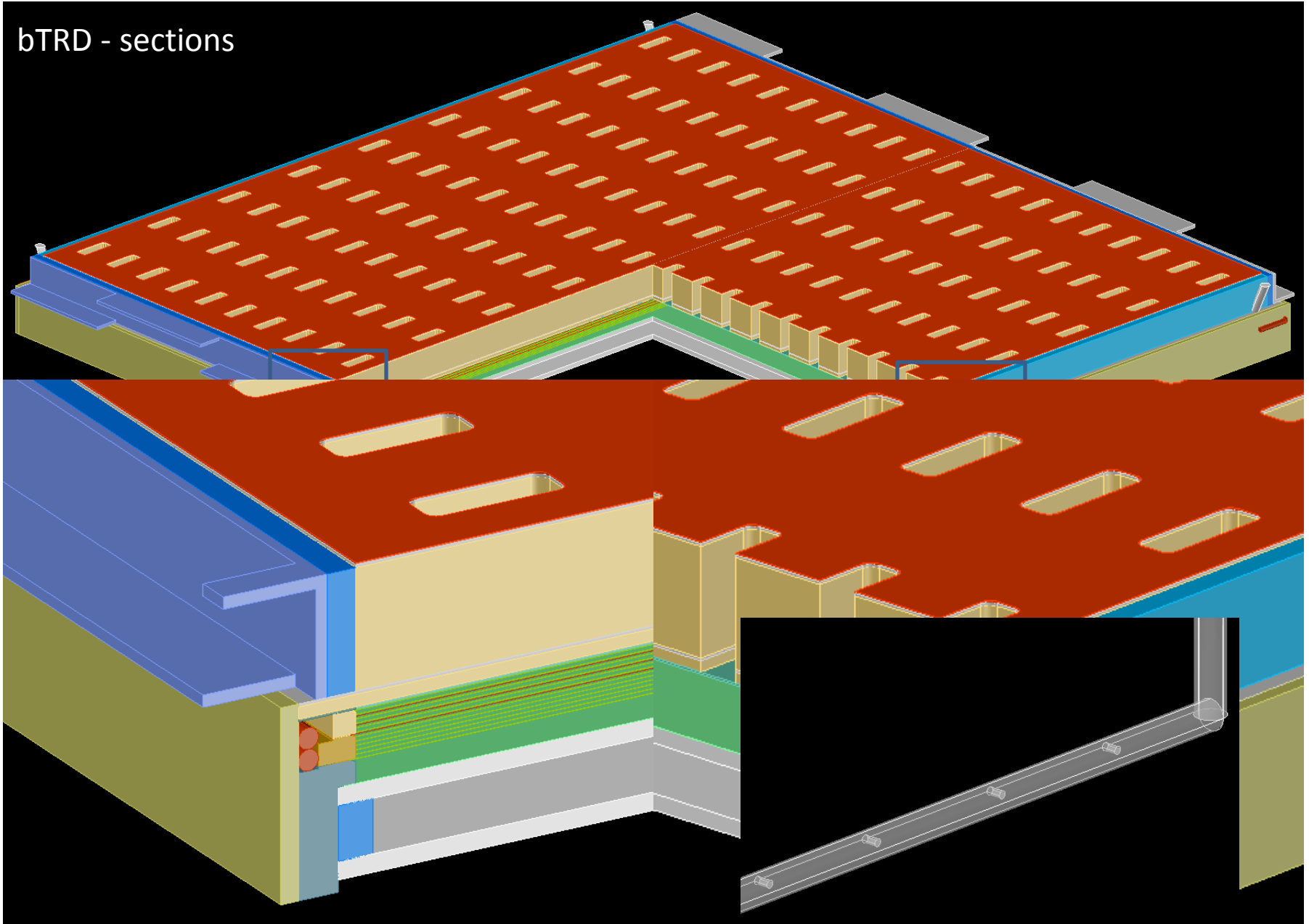
- *S4 (2 x Al carbon fiber of ~300μm + honeycomb plate) has a transmission 25% better than the witness sample, and 10% better than the samples with Rohacel + honeycomb structure.*

M. Petris, Alternative Chamber design
CBM TRD TDR, 14-15 March 2017, GSI Darmstadt
<http://indico.gsi.de/conferenceDisplay.py?confId=5654>

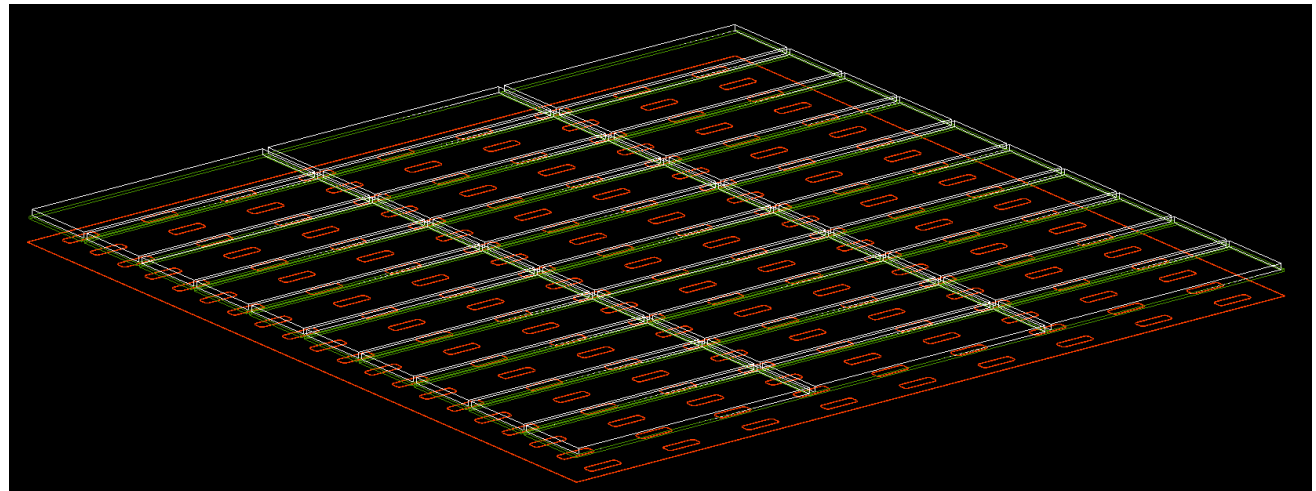
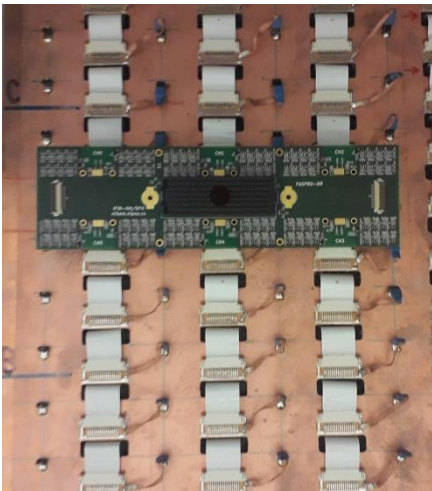
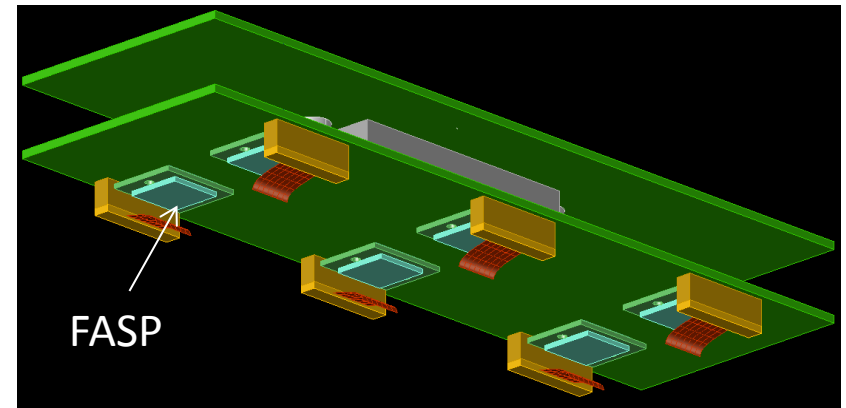
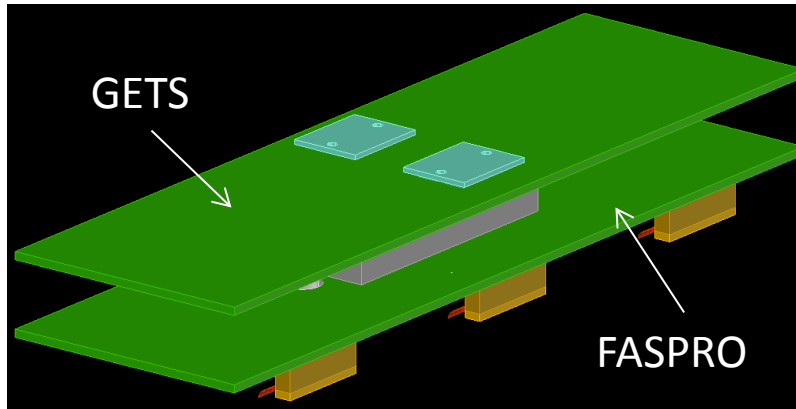
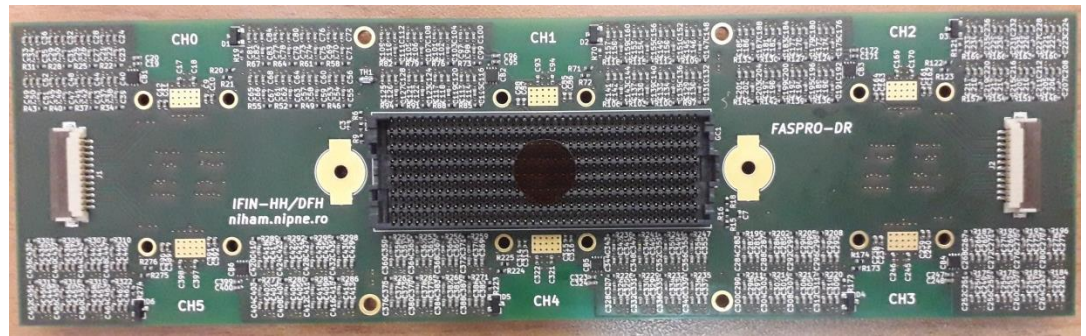
bTRD - compact version



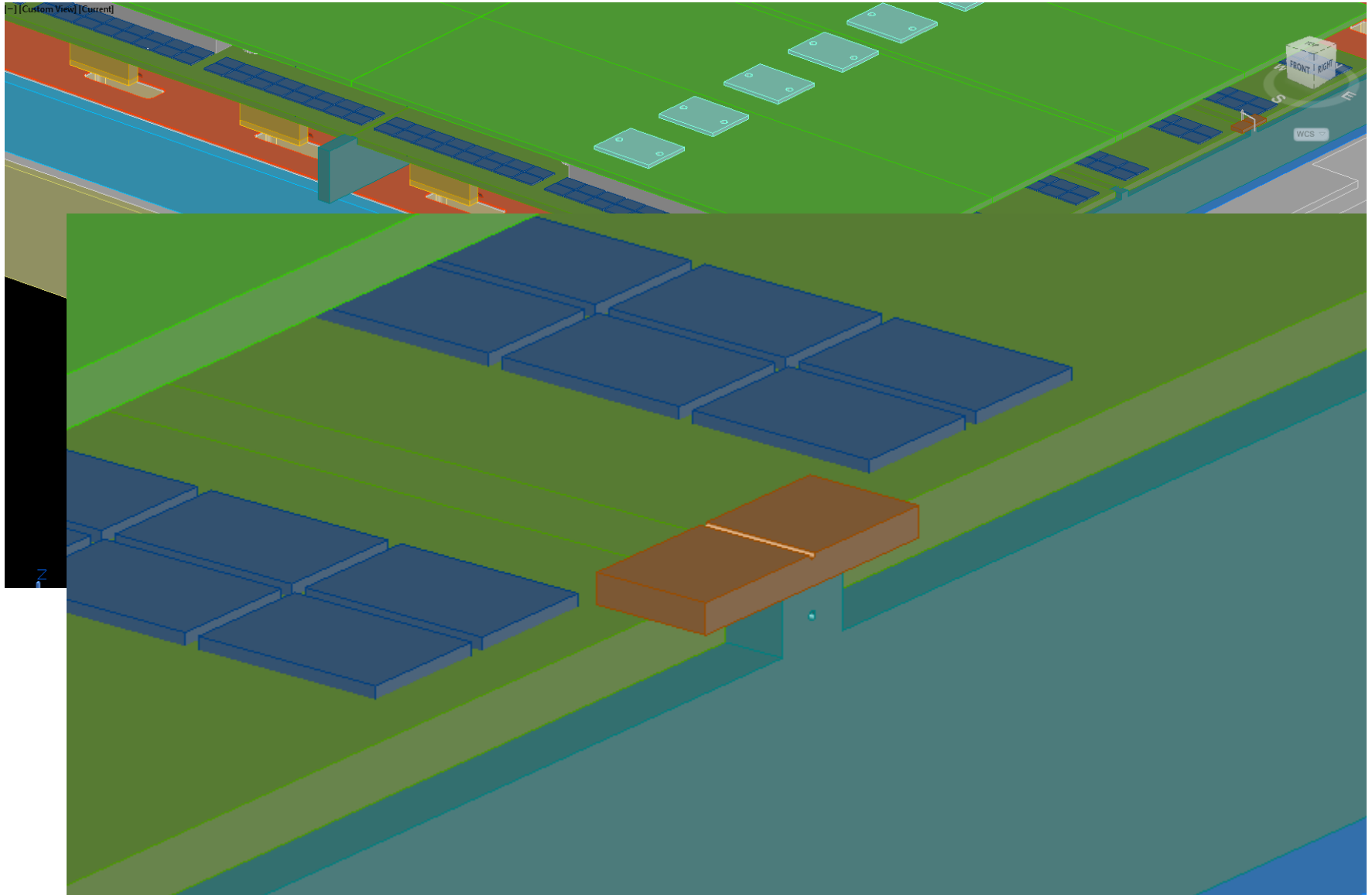
bTRD - sections



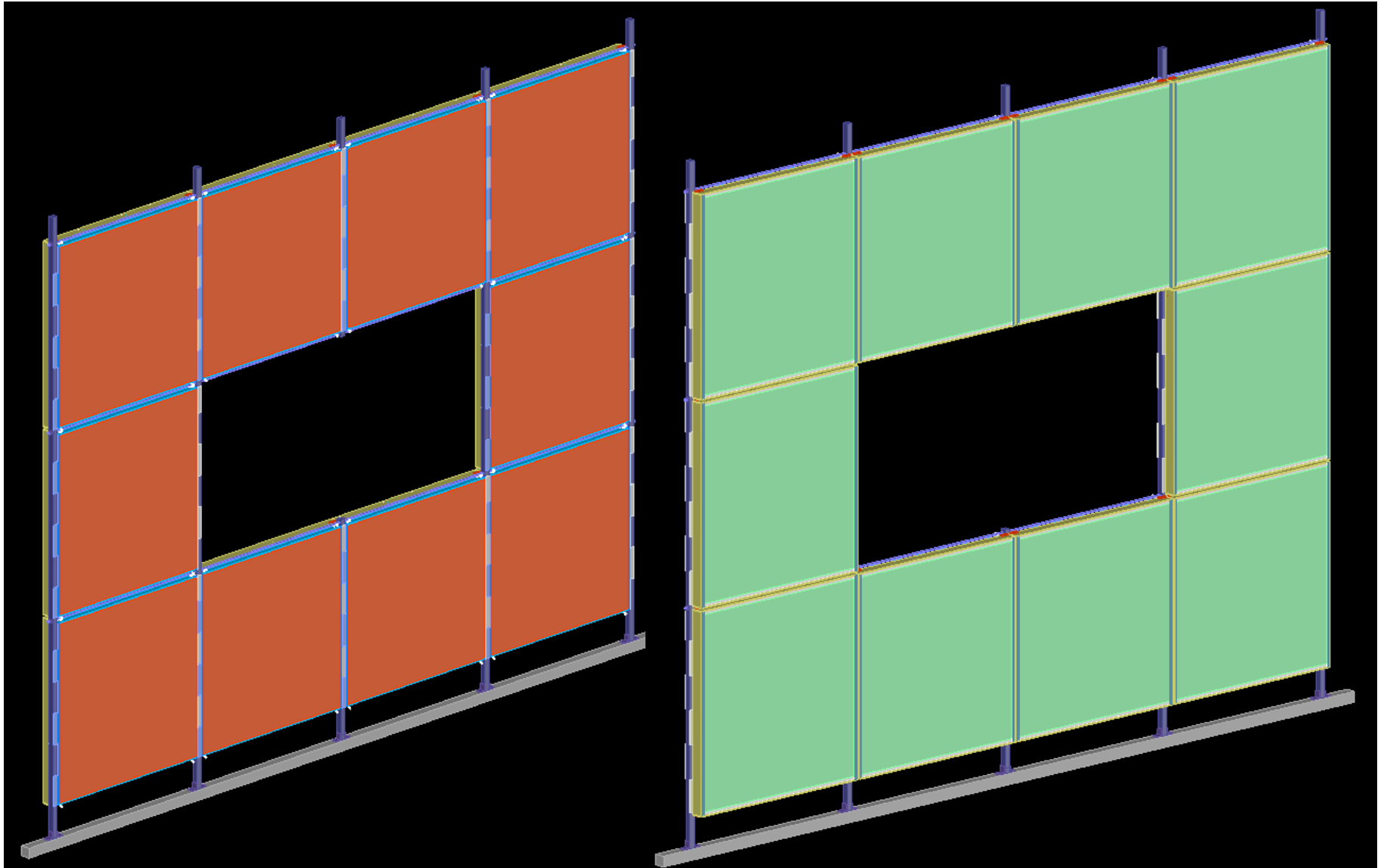
FEE – FASP and GETS



FEE conection possibility to the detector frame



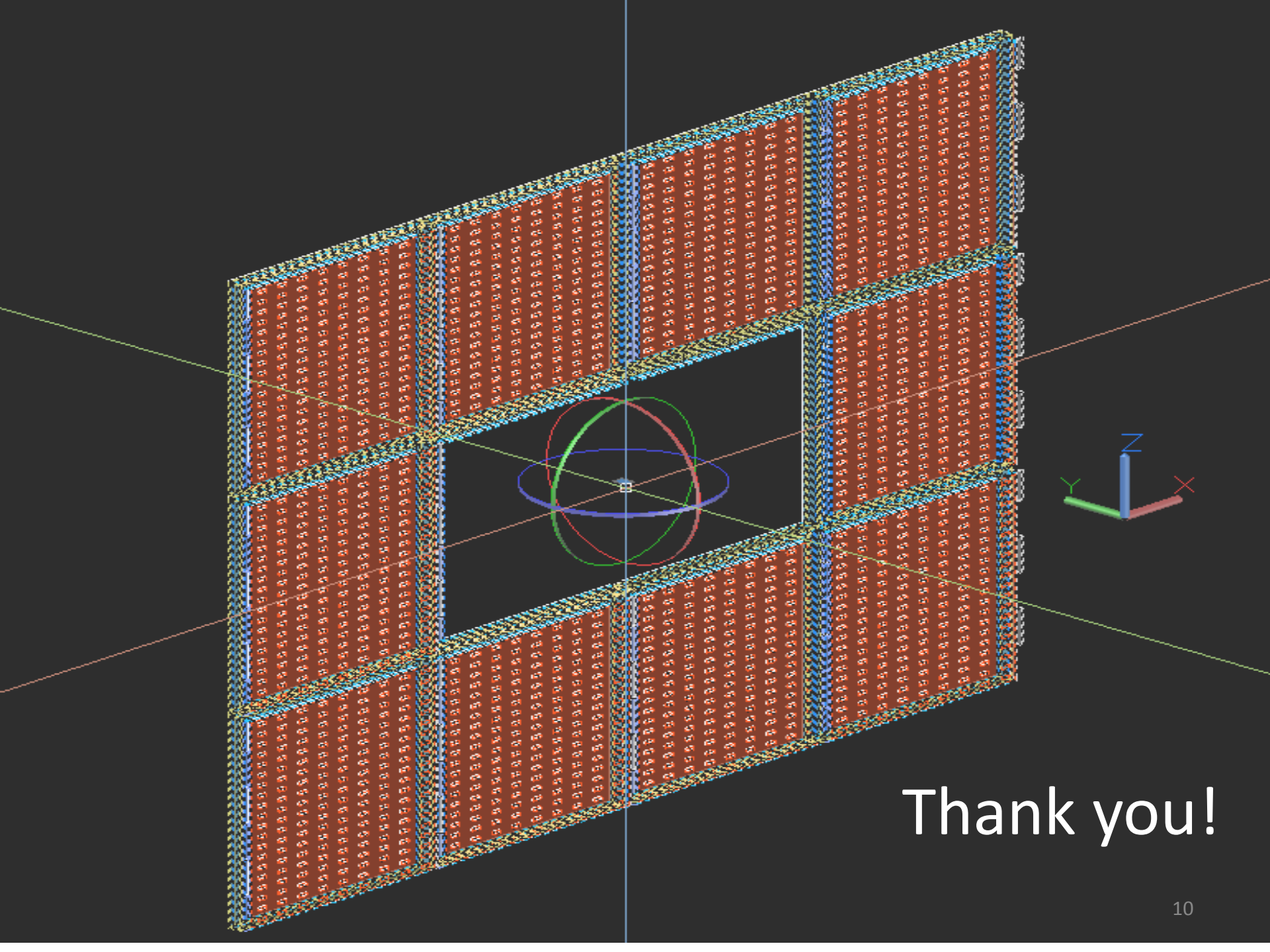
The TRD inner wall structure



A 3D perspective diagram of a detector calorimeter. It features a large, rectangular, red-colored top layer with a grid of small, rectangular, yellowish-gold openings. This top layer is mounted on a light blue base. The entire assembly is supported by a light green structure. The green structure has two visible dimensions: 564 on the left and 568 on the right. The background is a light gray.

CBM-TRD HPD Bucharest team

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Thank you!