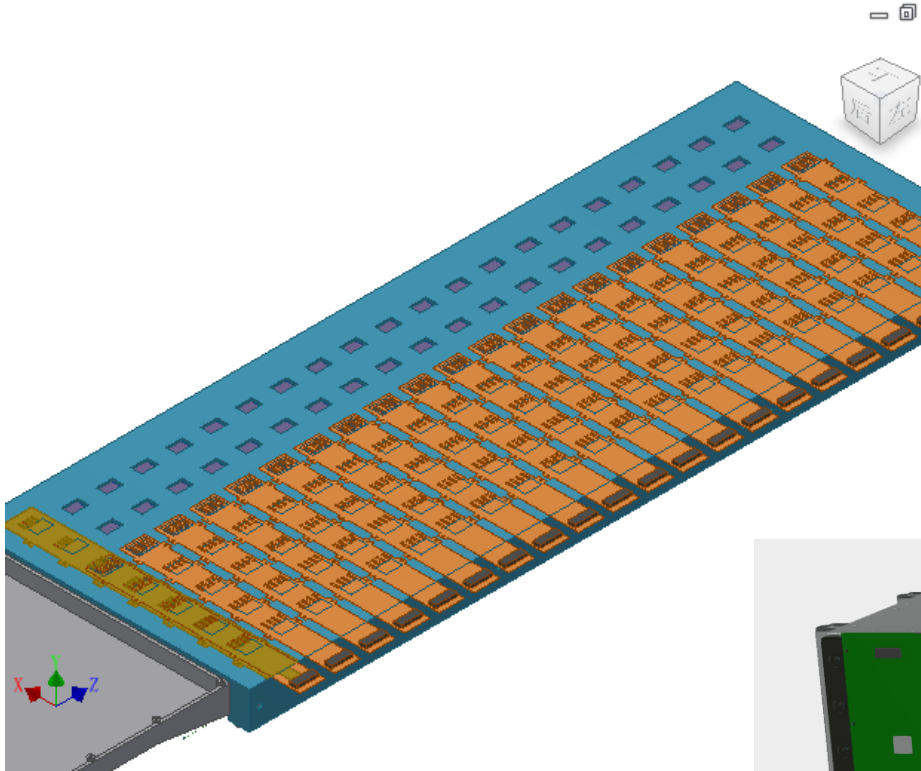


Summary of BT mechanics review

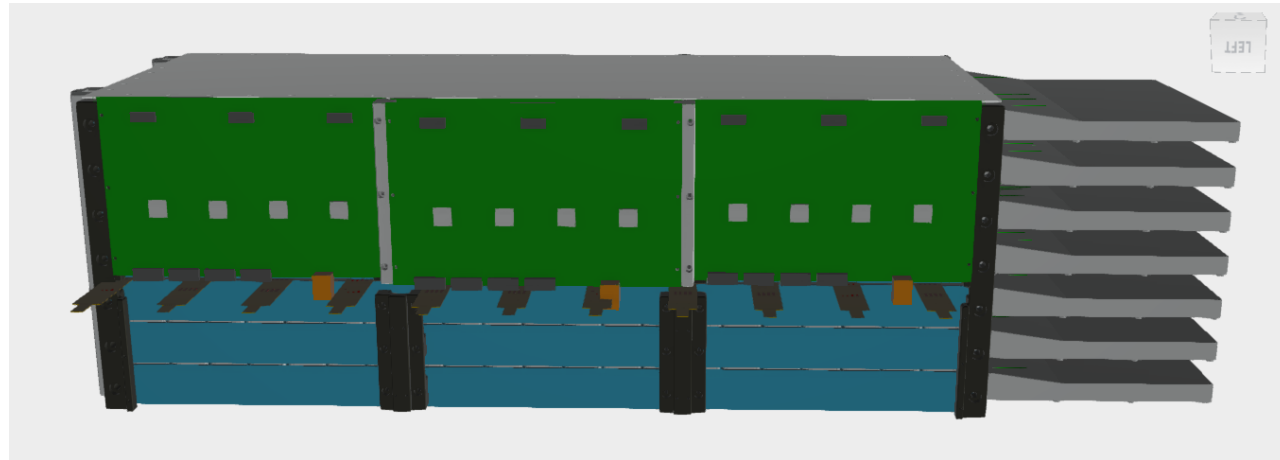
Eugenio Berti, Raffaello D'Alessandro, Sebastiano Detti, Lorenzo Pacini, Oleksandr Starodubtsev, for the Firenze INFN HERD group.

Starting design (Monday. 19/04)



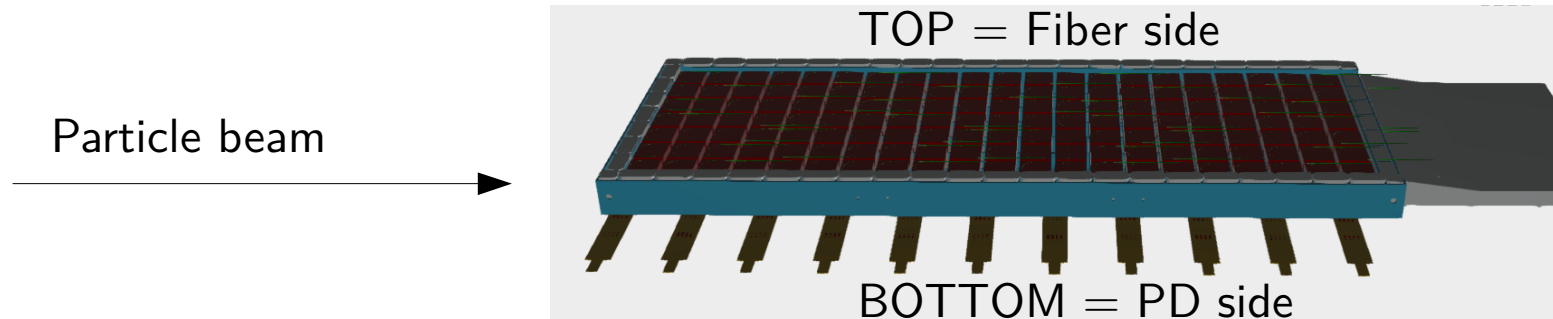
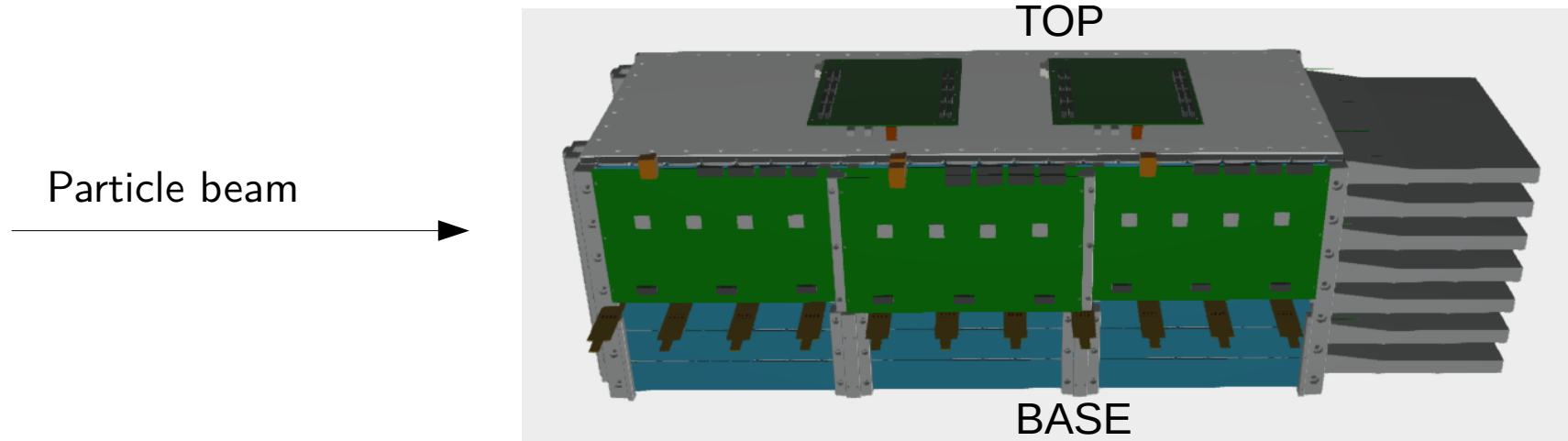
Error regarding: hole orientation, cable configurations, HIDRA board directions....

Dead line for mechanics submission to company for production: Sunday 25/04



Current design

After 2 iterations of correction: the final version adjusted by Olek (to be accepted by IEHP)

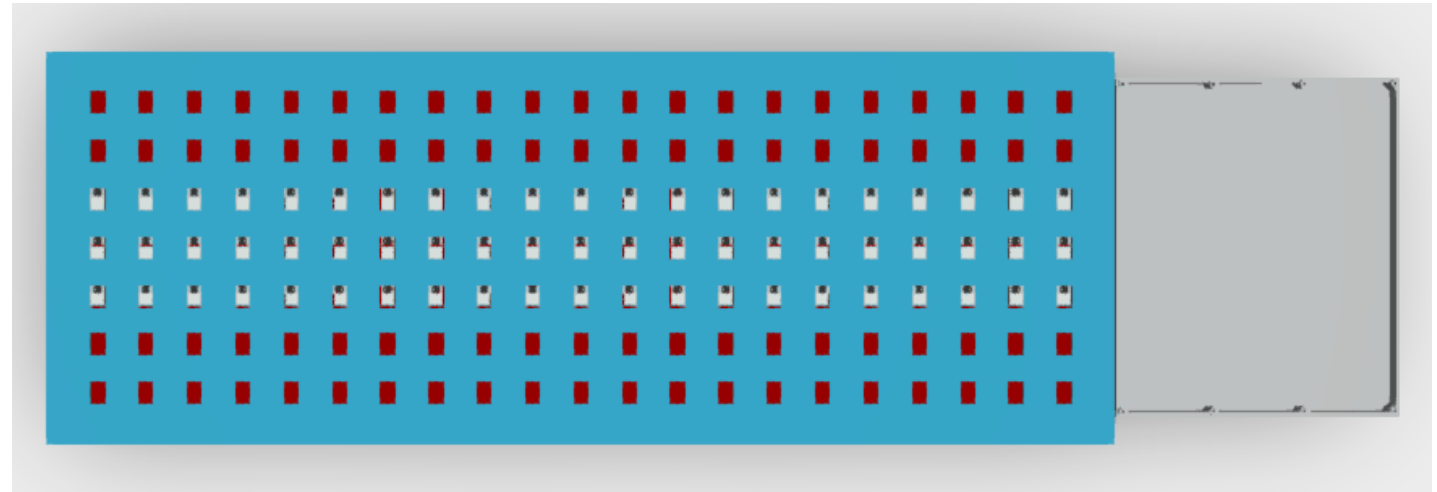
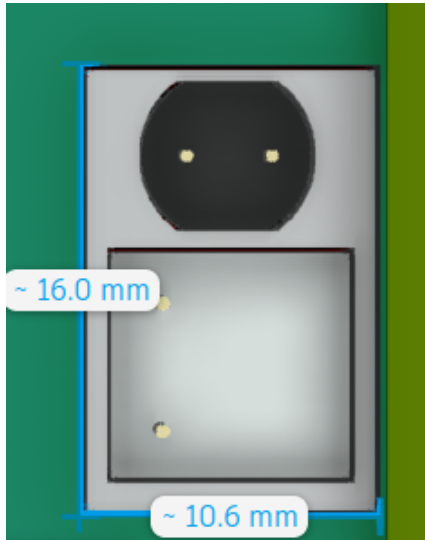


Check layer holes

Holes position and direction: OK

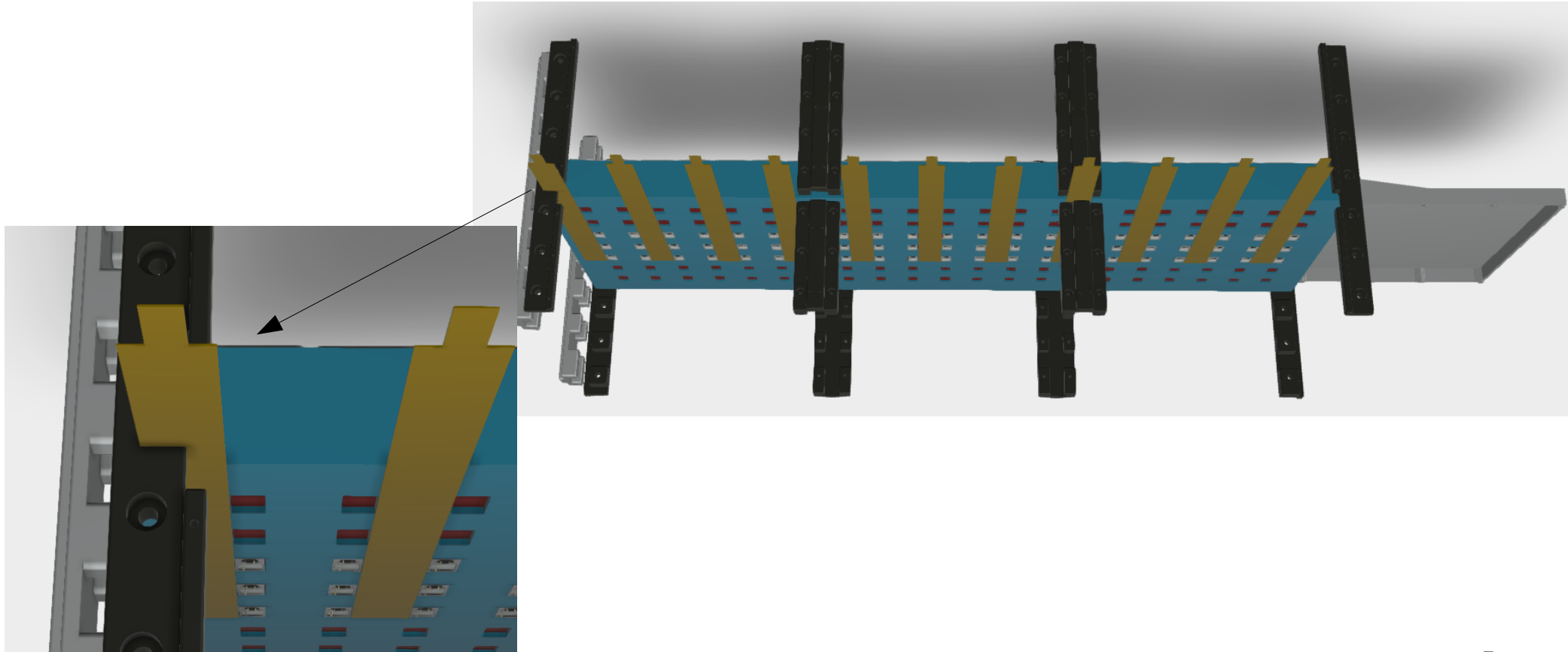
Holes dimension (16*10.6): OK

TOP view



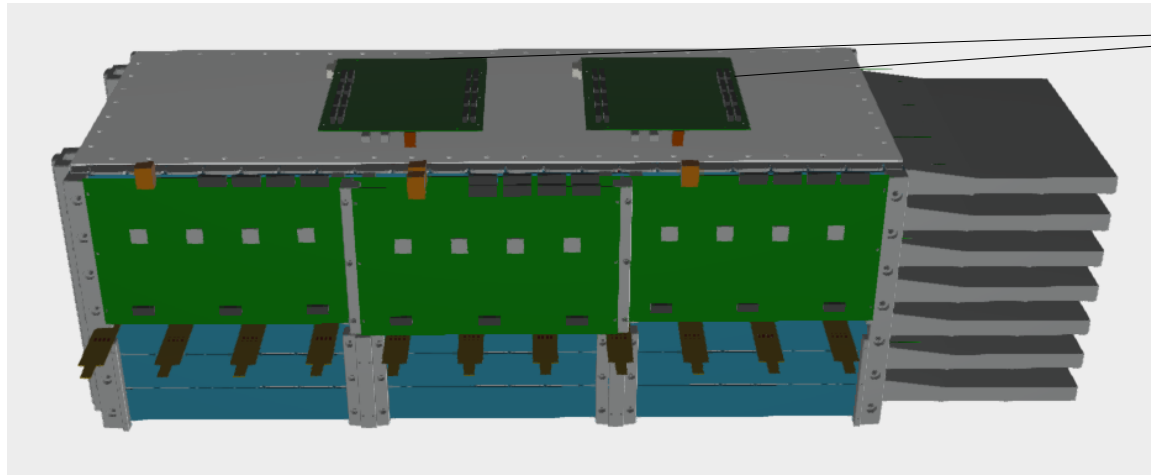
Cable position: current design

In this design the first cable hits a mechanical structure:



Electronics: TROC1-2 position

Our proposal is to place 2 TROC2s on the top, one is enough but two are better for connecting with HIDRA boards.



TROC1

TROC1 is placed outside the large box; it must have a hole for cables: 6 Ethernet cables, 2 power cables (one for TROC2 and one for HIDRA) and 1 cable for PD bias.

Backup: few pictures of “flight model”

“Flight” design: TOP

Calo support + FIT

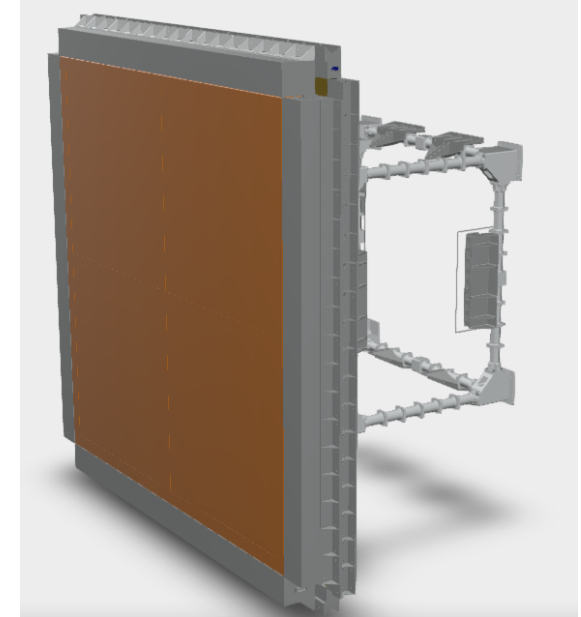
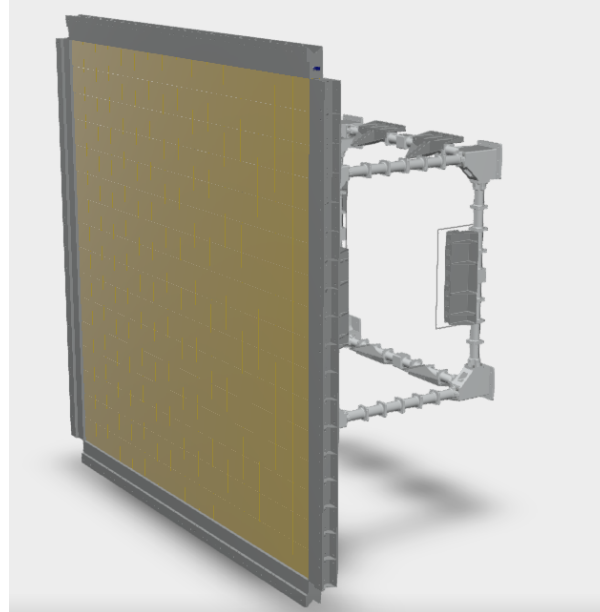
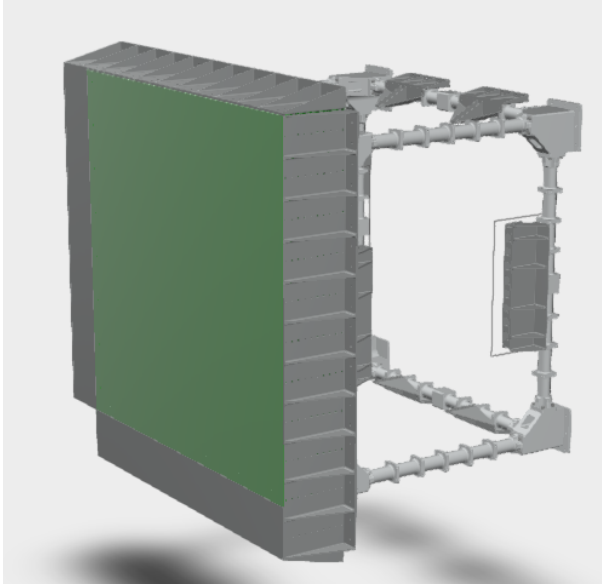
+

PSD

+

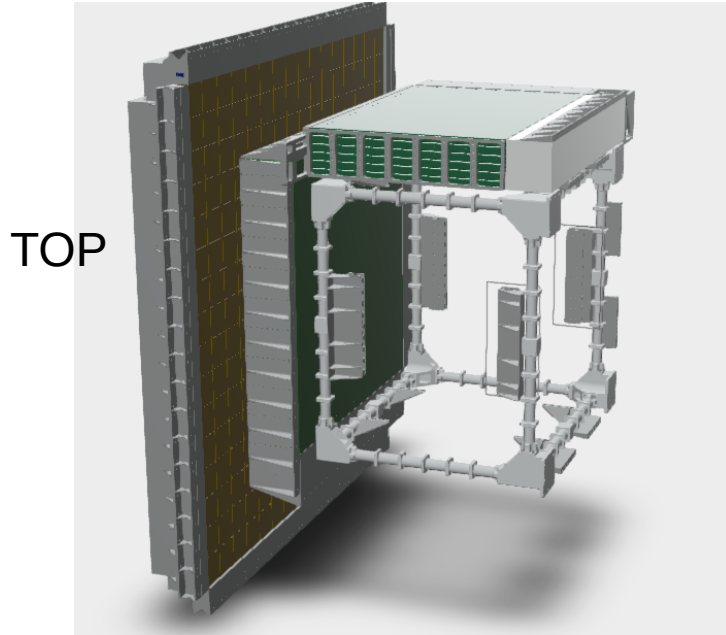
SCD

TOP

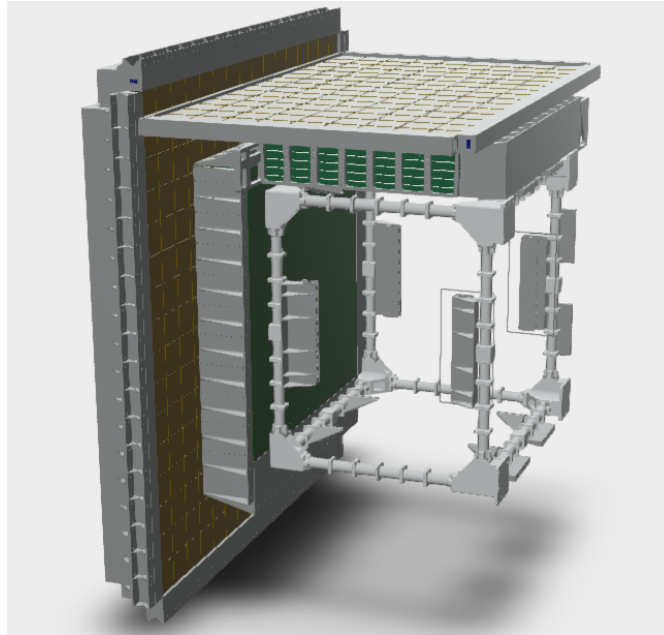


“Flight” design: TOP + SIDE

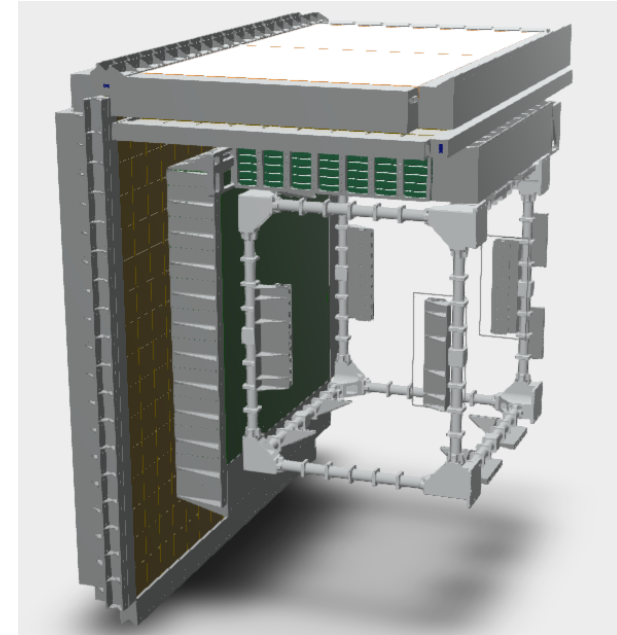
TOP detectors + side FIT



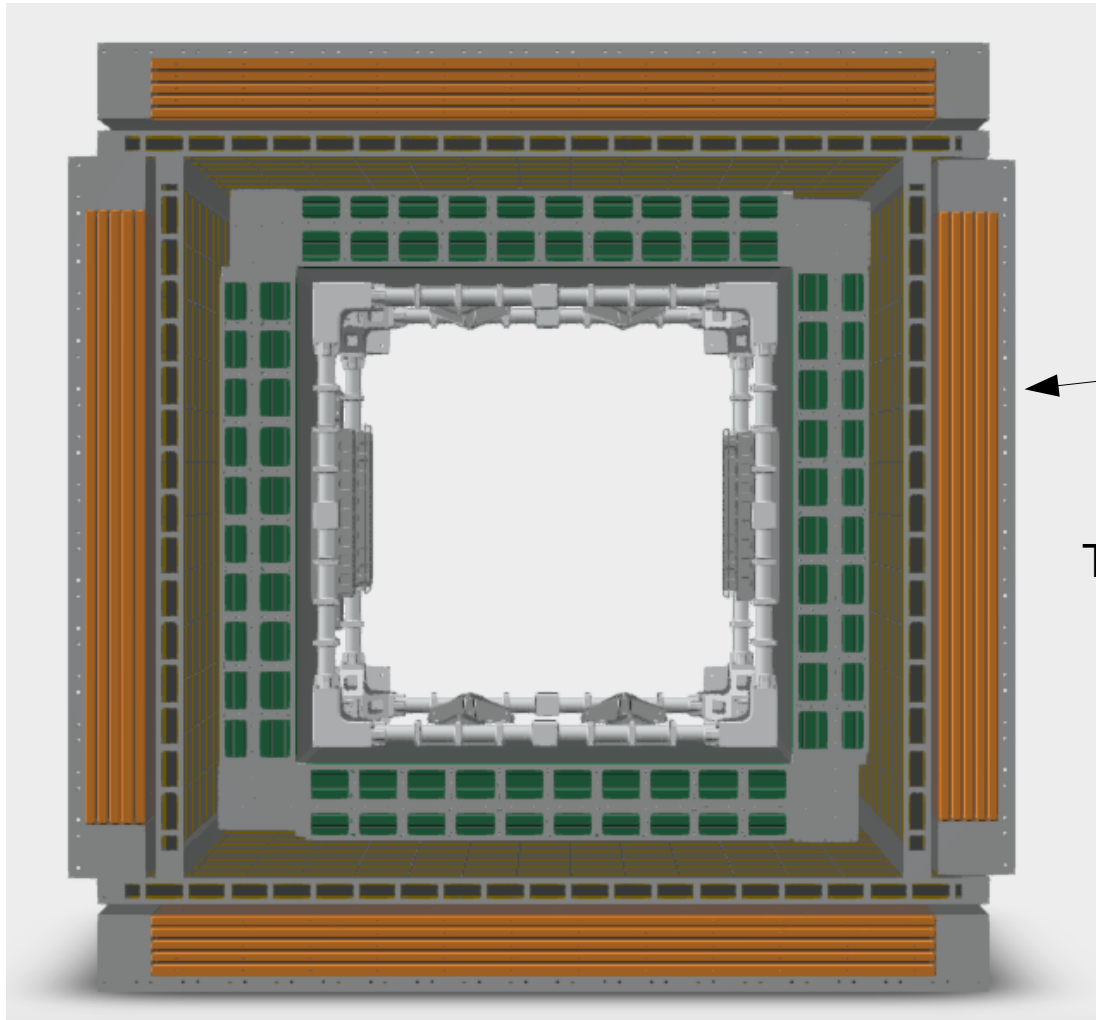
+ PSD



+ SCD



“Flight” design: side detectors, top view



I found a mistake in the name of a volume:

PSD-side-s_MIR1:1 is this SCD detector

This face is named “FRONT”