

ECAL-P frame

(and its experimental environment)

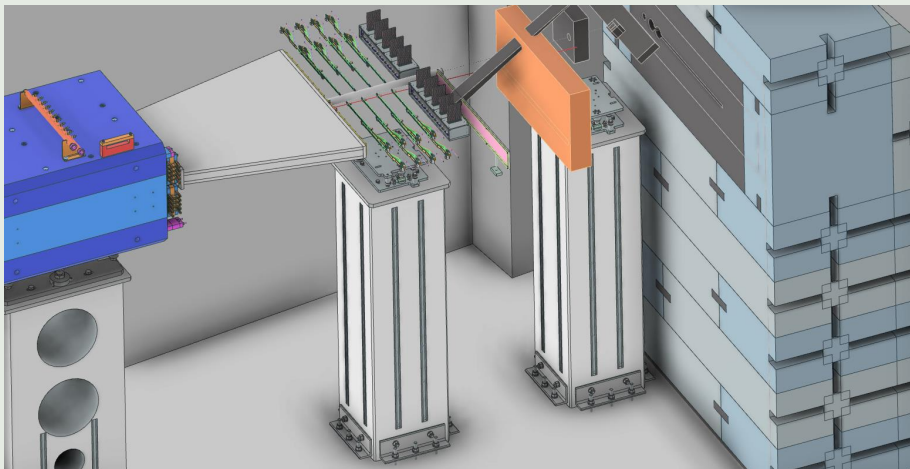
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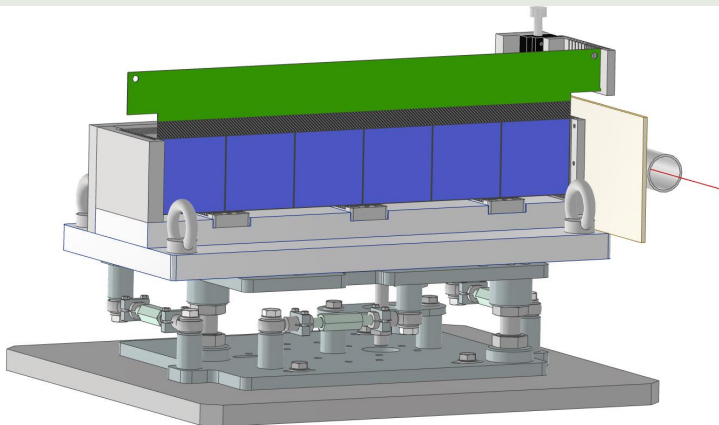
LUXE meeting in Tel Aviv, 6-MAR-2023

CAD view of interaction area



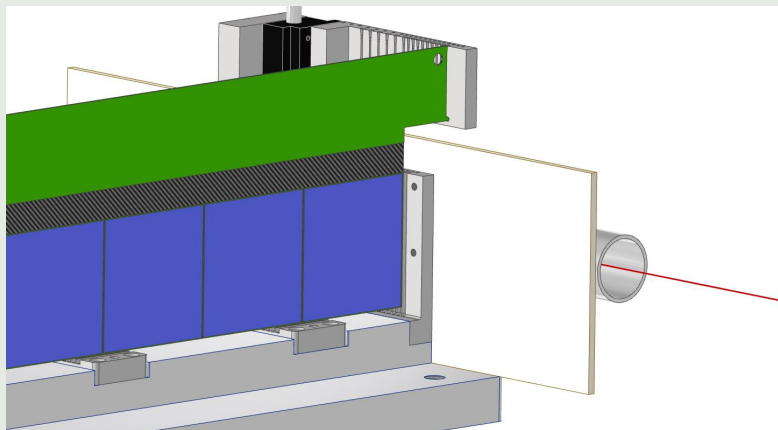
- “DESY standard” tables on concrete pillars
- **how many pillars ? how many tables ? what sizes (heights) ?**

ECAL-P frame, location in LUXE hall



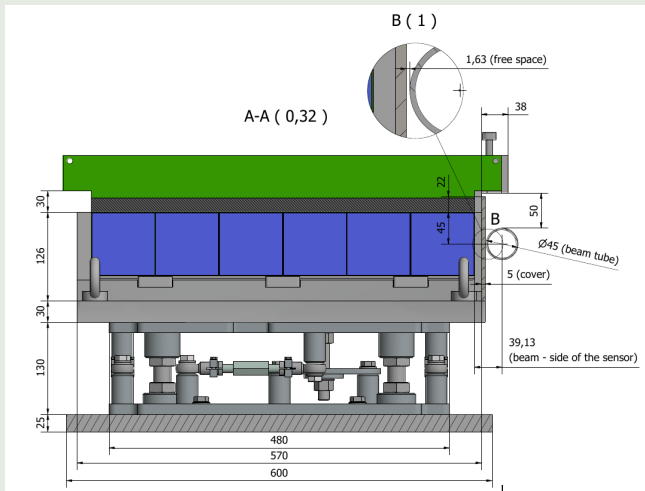
- ECAL-P on 6DOF table
- **intermediate (3cm thick) plate for transportation, hooks for crane** (removable)
- **do we need some extra “spider-like” four-legs handle for the crane ?**

ECAL-P frame, support for PCB boards

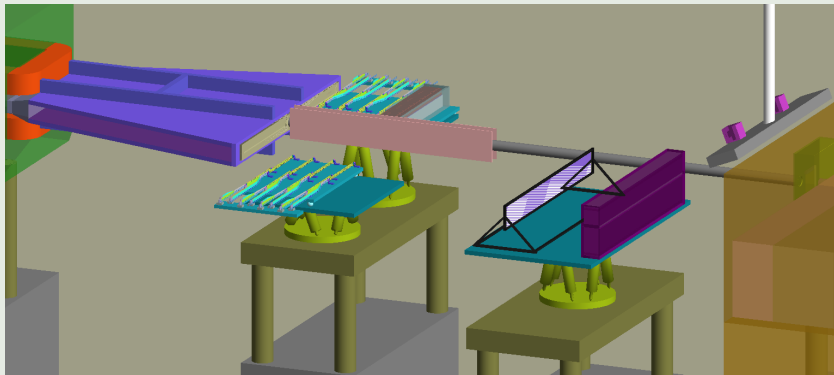


- support of PCB boards
- **extends over beam-pipe area** → **can we use this space ?**
- radiation tungsten shielding (partially) supported by the ECAL-P plate → is it OK ?

ECAL-P frame, dimensions



- approximate dimensions (PCB support sill under development)
- **possible conflict with electron side (tracker, ECAL-E ?)**



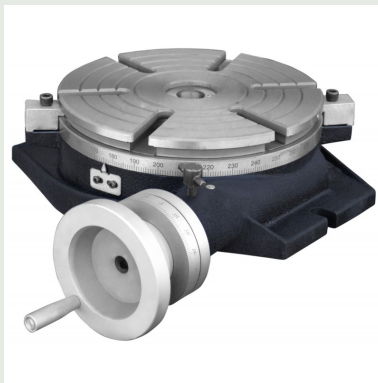
- more realistic geometry, separate tables (as in MC simulation ?)
- **ECAL-E displaced w.r.t. the ECAL-P**
- **with two shielding tungsten plates (1000mm length)**
(who will support the e^+ and e^- side plate ?)

Movable platform in test beam hall



- only 2 DOF (up-down, left-right), **no easily rotation !**

Rotary table (for test beam)



- example of commercial 250 mm table
- we can also opt for simpler “custom made” design
- **do we need such or similar device ?**
- what angular range we need ($\pm 30^\circ$?)?
- **only for test-beam or also in the experimental hall ?**