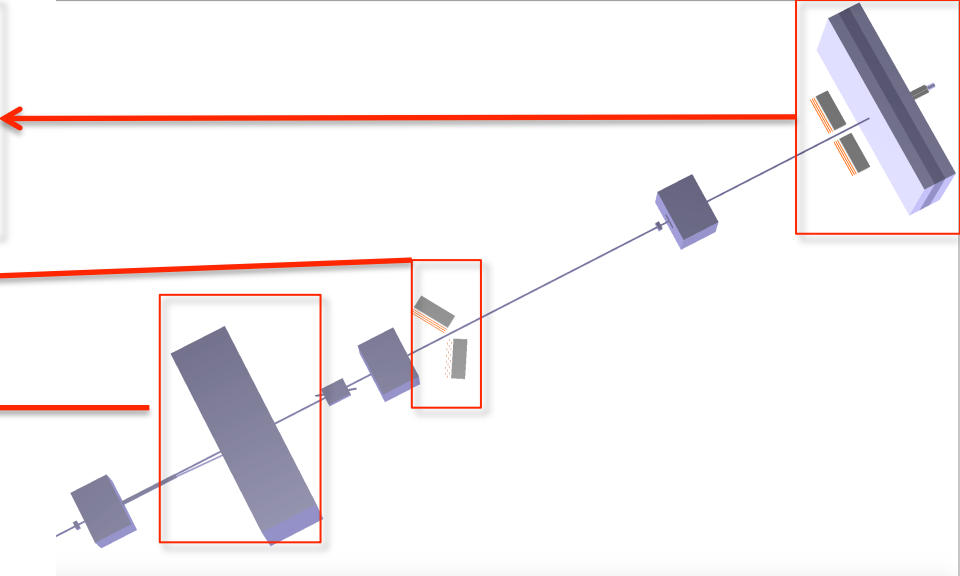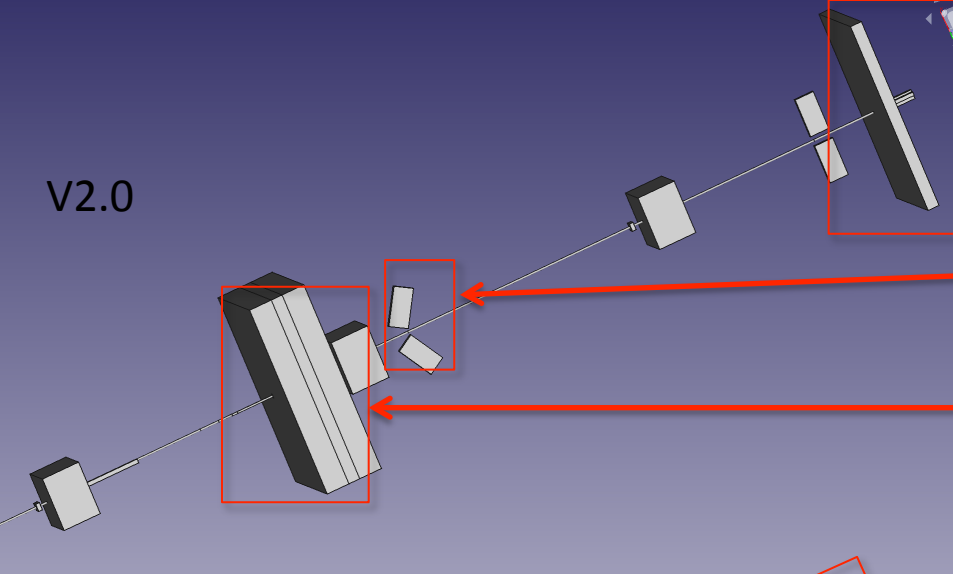# Update on the Simulation integration in the CAD model
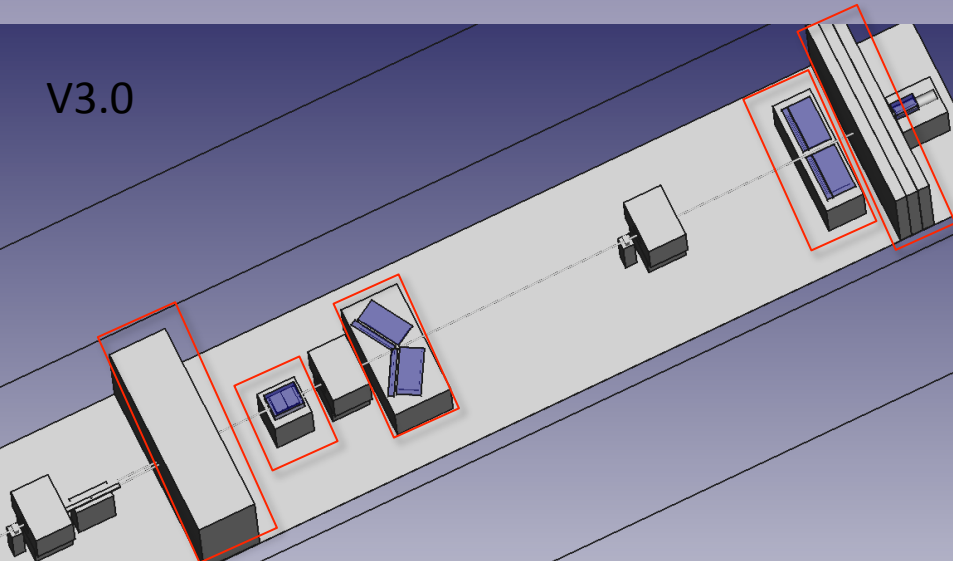
Louis Helary – DESY

April 16th 2020
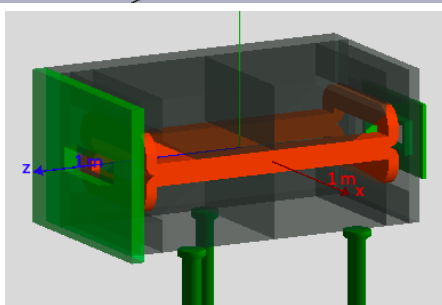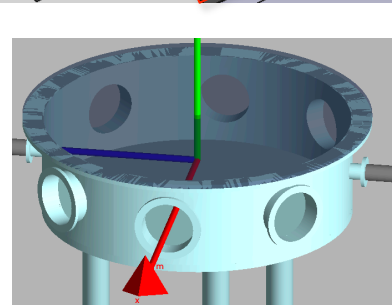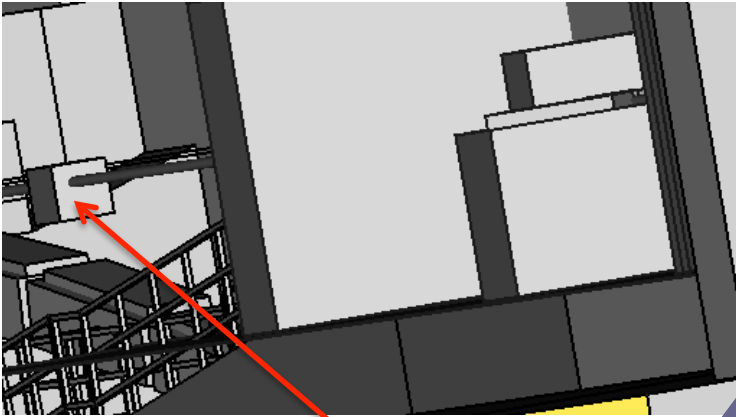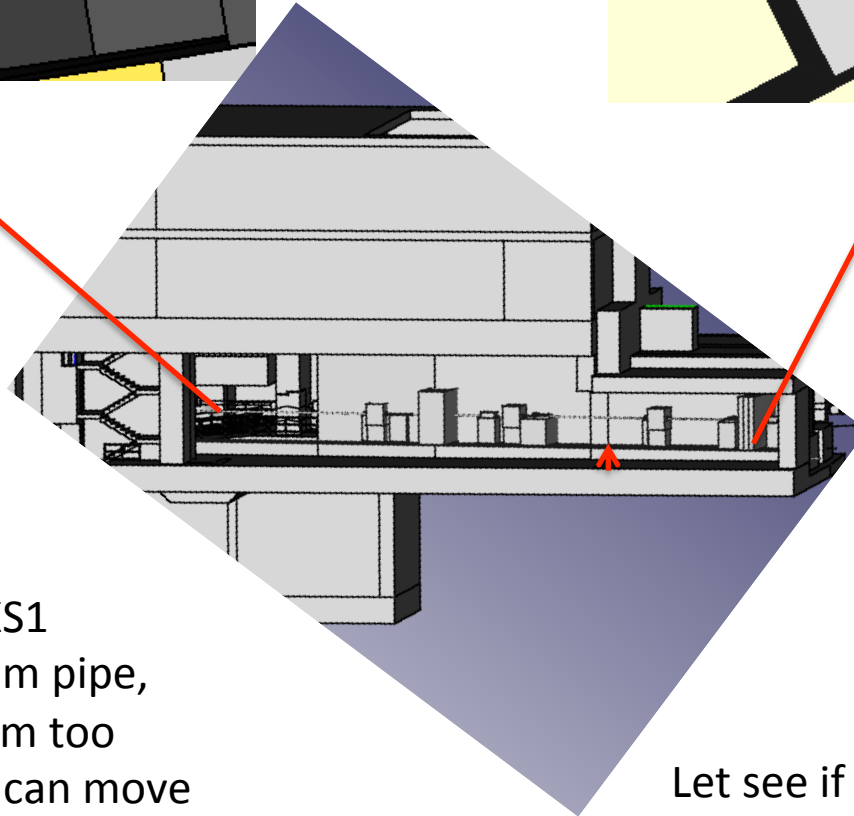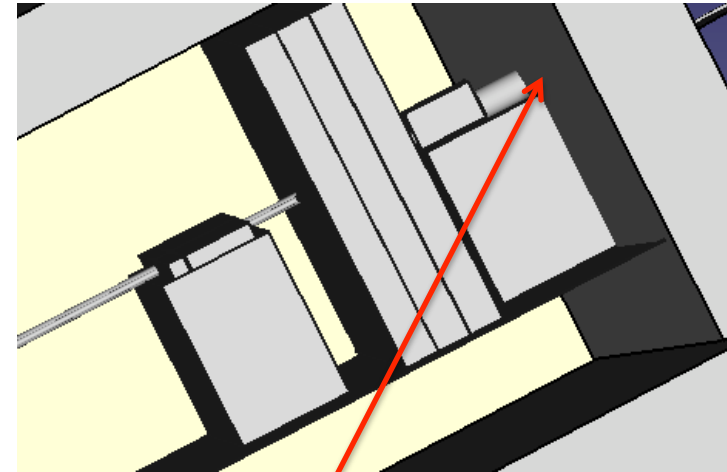
V2.0

V3.0

Improved CAD model:
- Dump and shielding now at proper position.
- Added trackers.
- IPBox now visible.
- Added bounding box inflated by 20% around experimental area (blue boxes).
- Added structure under elements and floor (1.5m from beam pipe).
- Need to add improved magnets and IPBox from Sasha.
- Still trying to understand why some elements are added in the origin at conversion stage… (mostly manual work here).
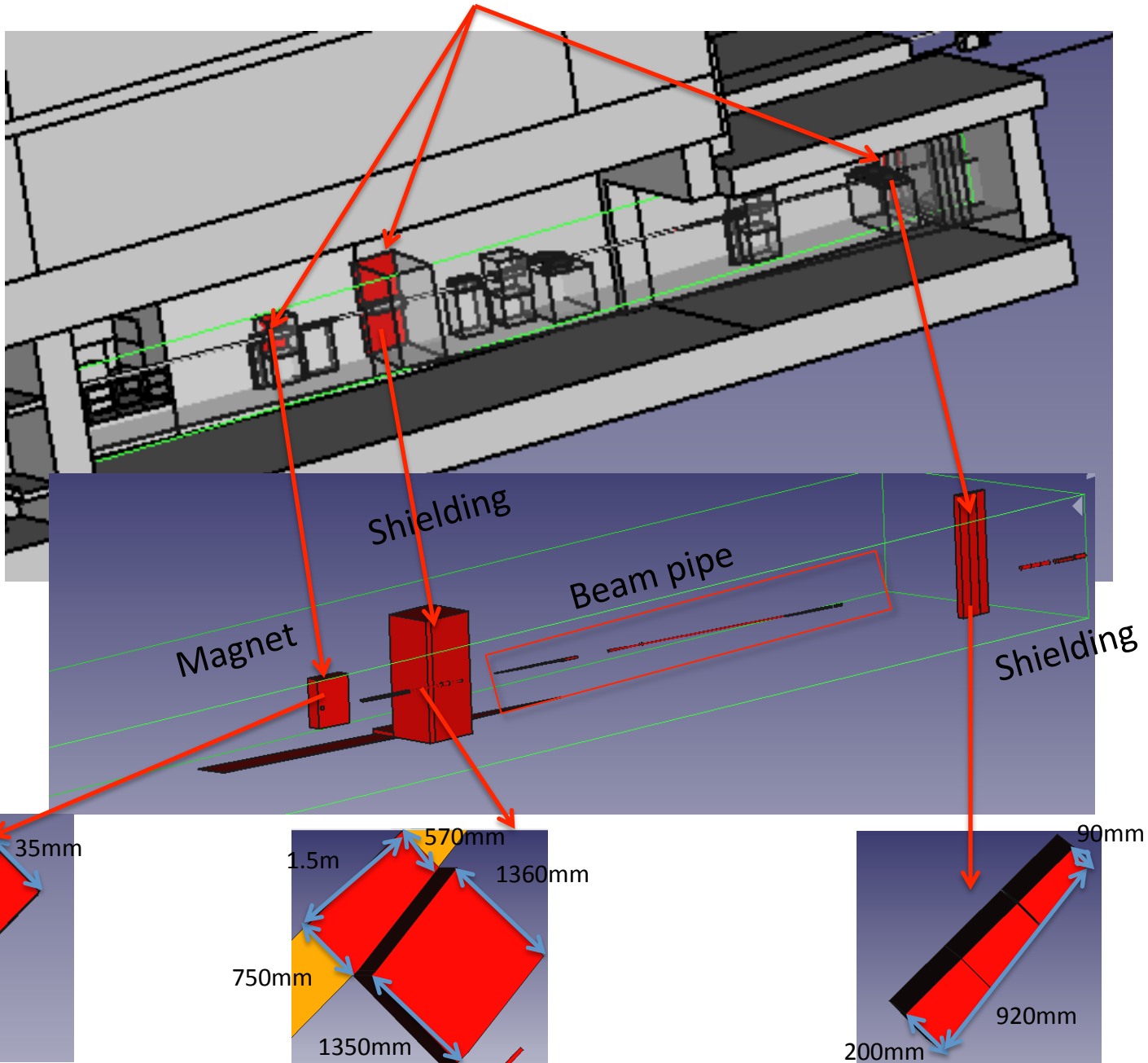
2

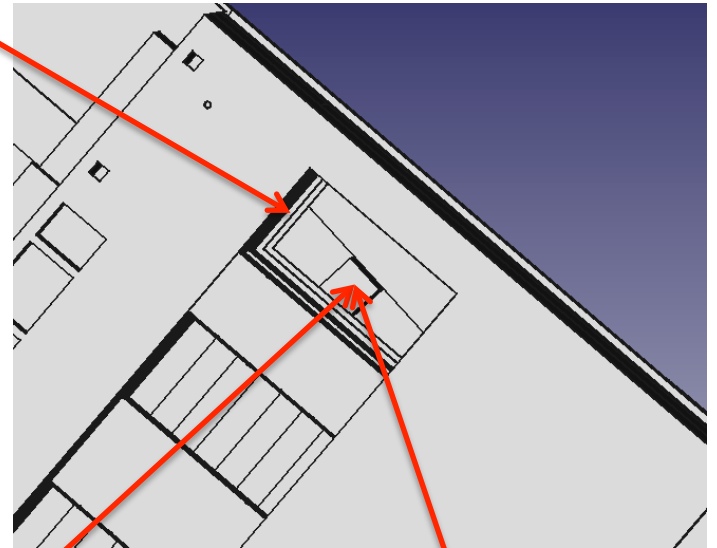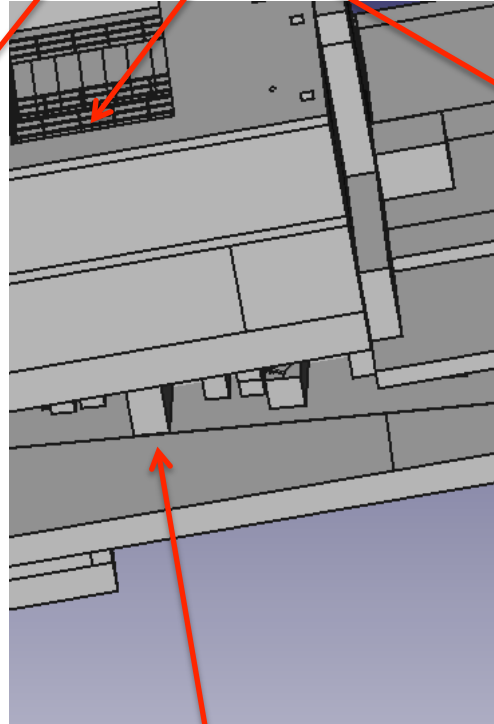EXFEL magnet

XS1 end wall

Inject new LUXE model in XS1

- In order to align the beam pipe, the LUXE floor is still 1.5m too high (asked Daniel if we can move it down.)

Let see if we have some collisions.
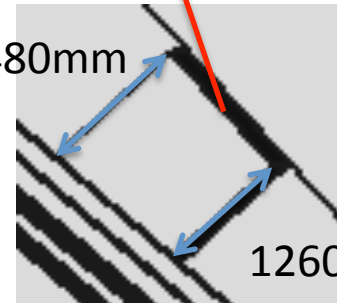
Overlap between Luxe and XS1

Shielding
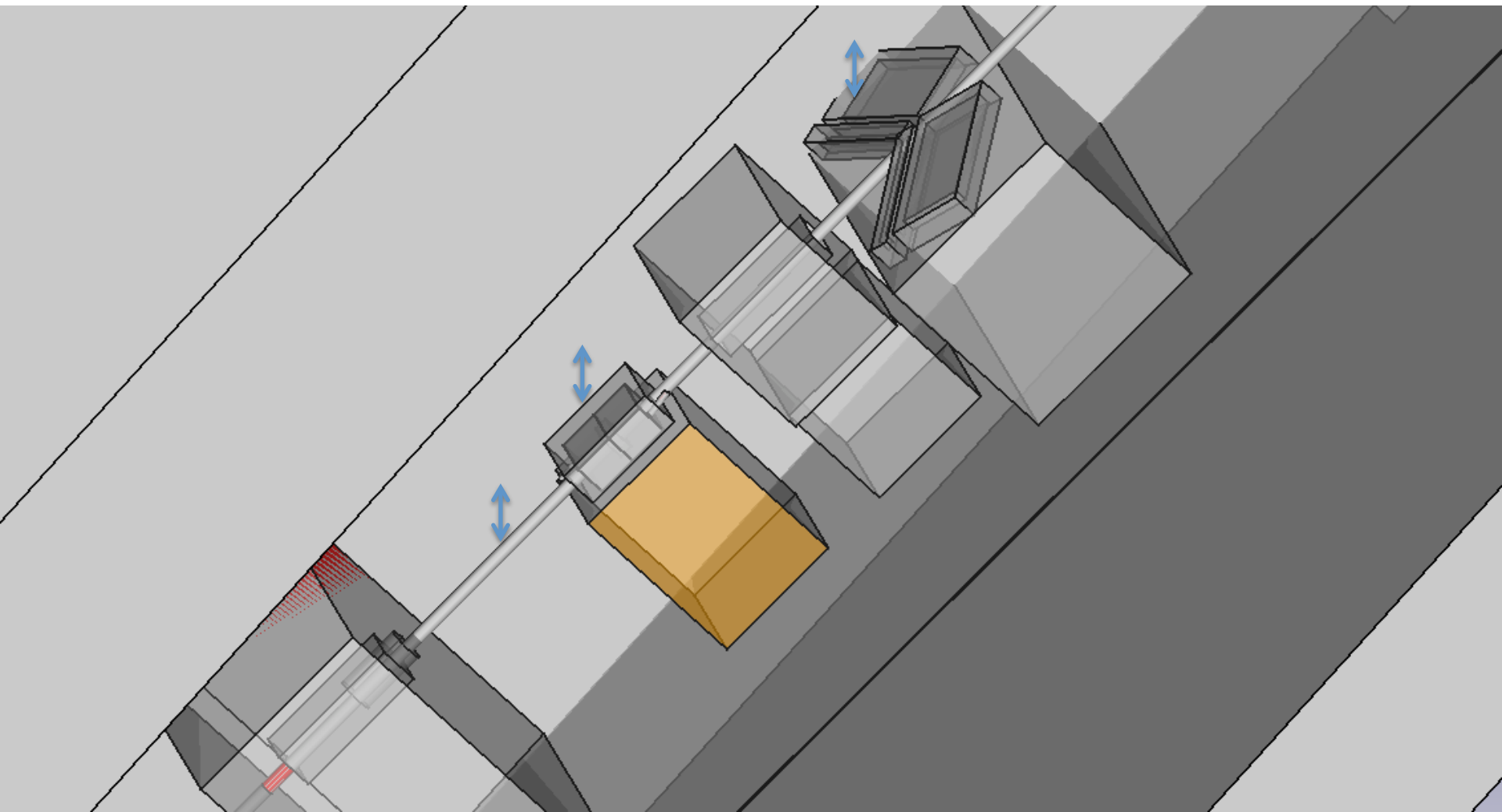
Beam pipe

Magnet

Shielding

35mm

1m

570mm

1.5m

1360mm

750mm

1350mm

90mm

920mm

200mm

access shaft

Shielding

1480mm

1260mm

Beam pipe - wall ~800mm

Bounding box IP - wall ~500mm

Calorimeter – wall (very close..)