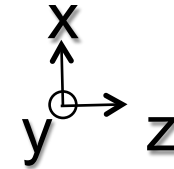
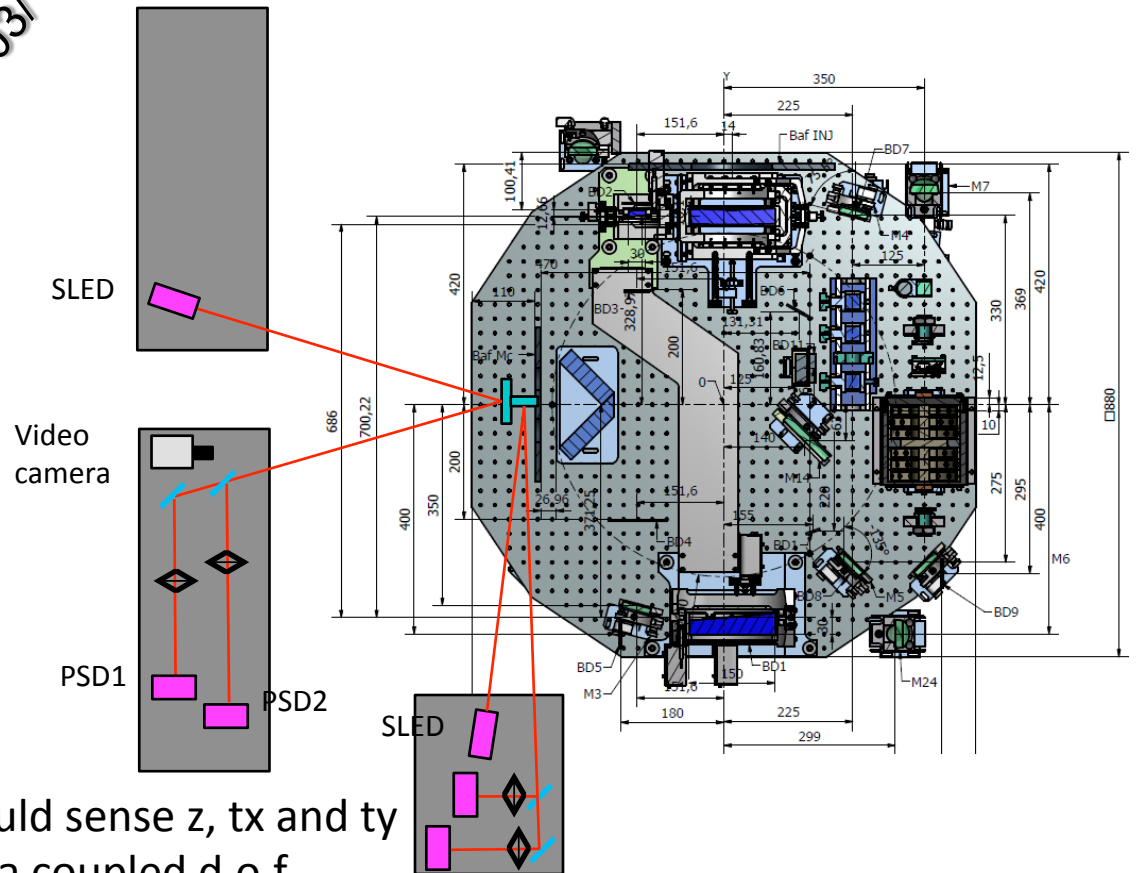


OL beam layout for LC susp-InjBench

EM111212

E. Genin 03/10/12



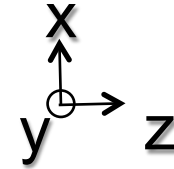
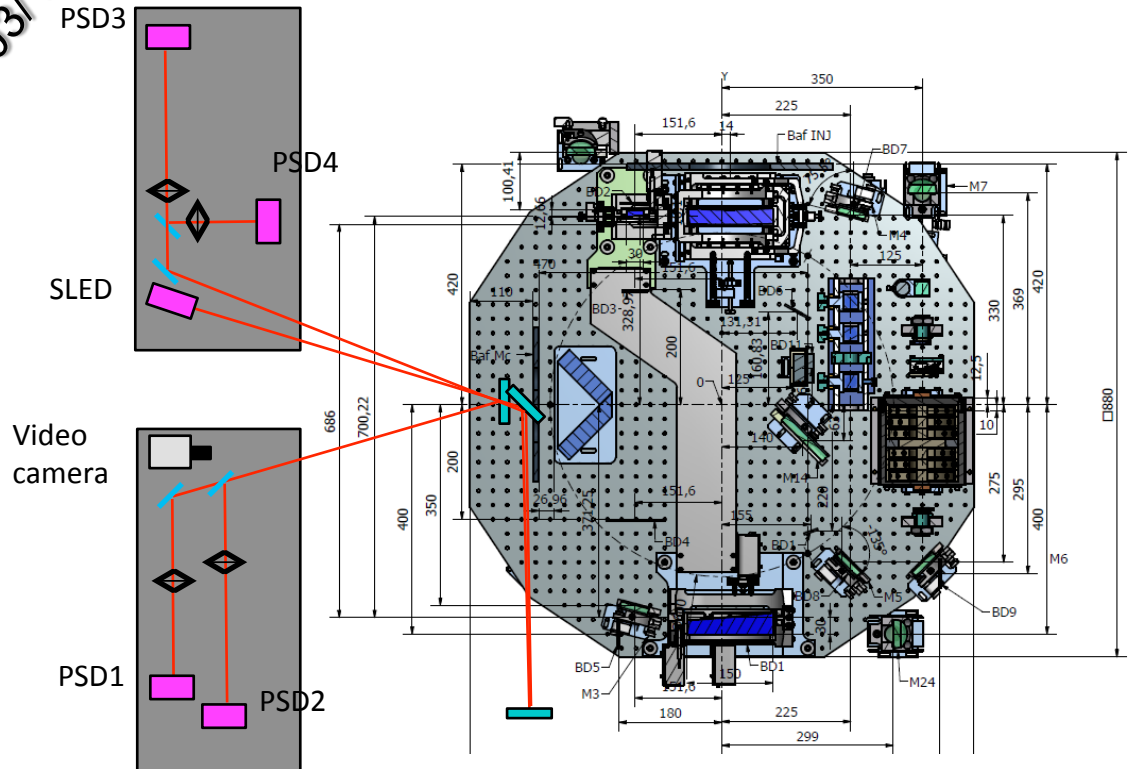
Mirror fixed on the bench

Should sense z, tx and ty
but a coupled d.o.f.

→ We are checking if there is enough space to install the new bench south side of INJ tower.

Virgo-like configuration

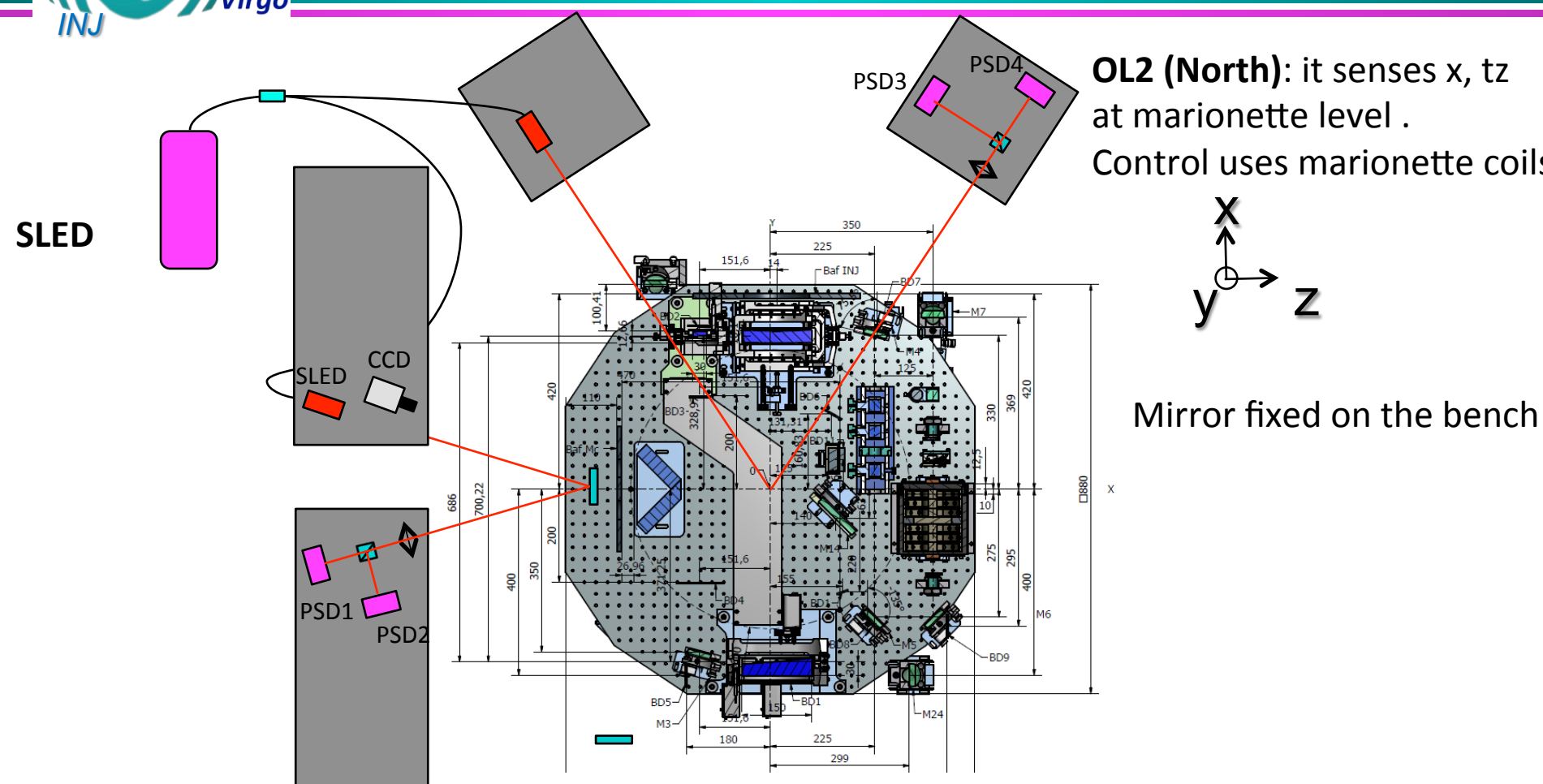
E. Genin 03/10/12



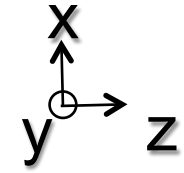
Mirror fixed on the bench

Should sense z , t_x and t_y
but a coupled d.o.f.

→ a decision on the optical setup to use for AdV is expected to be taken soon (≈ 1 month).



OL2 (North): it senses x , t_z at marionette level .
Control uses marionette coils

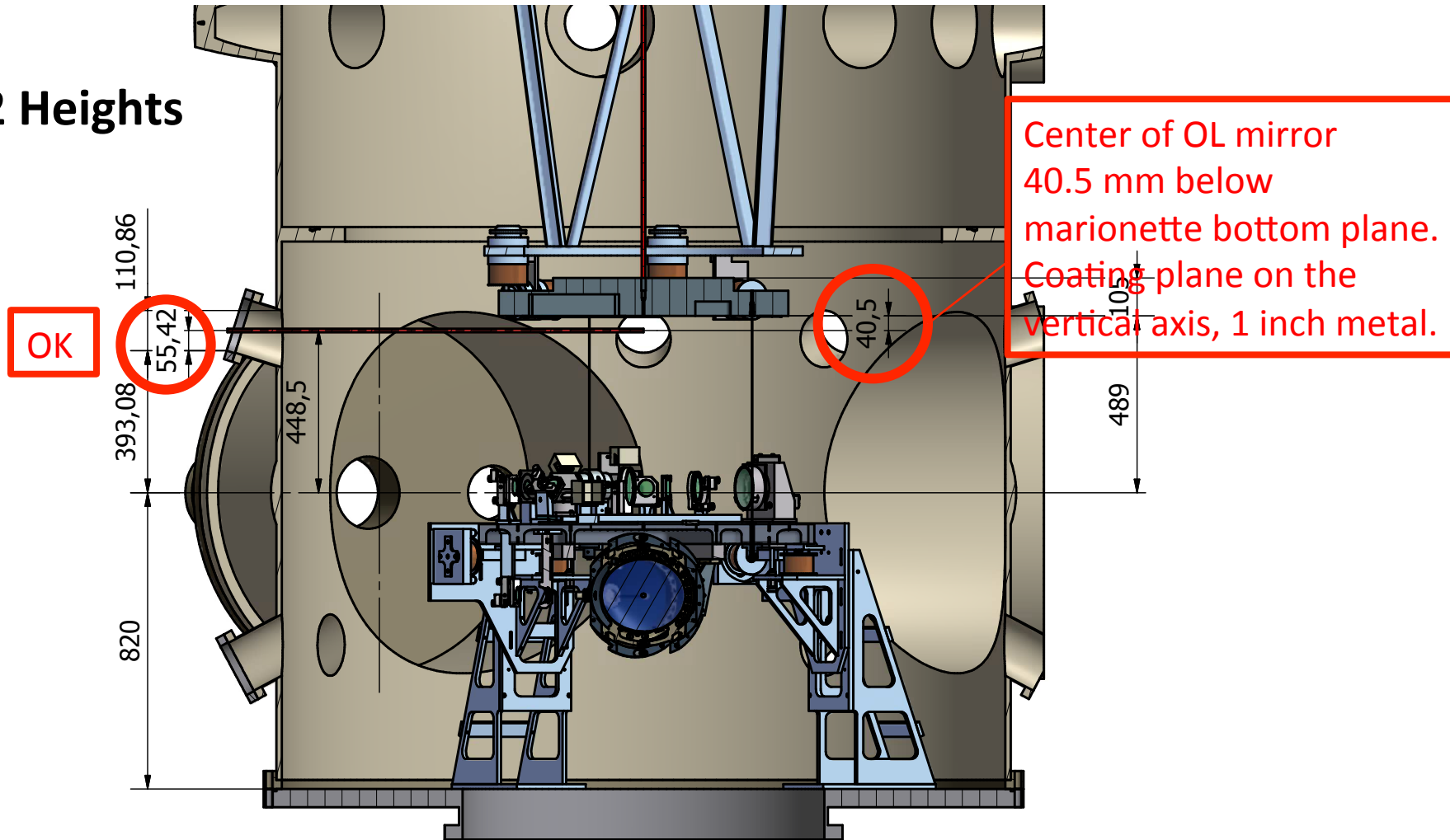


Mirror fixed on the bench

OL1 (WEST): it senses z , t_x and t_y but a coupled d.o.f.

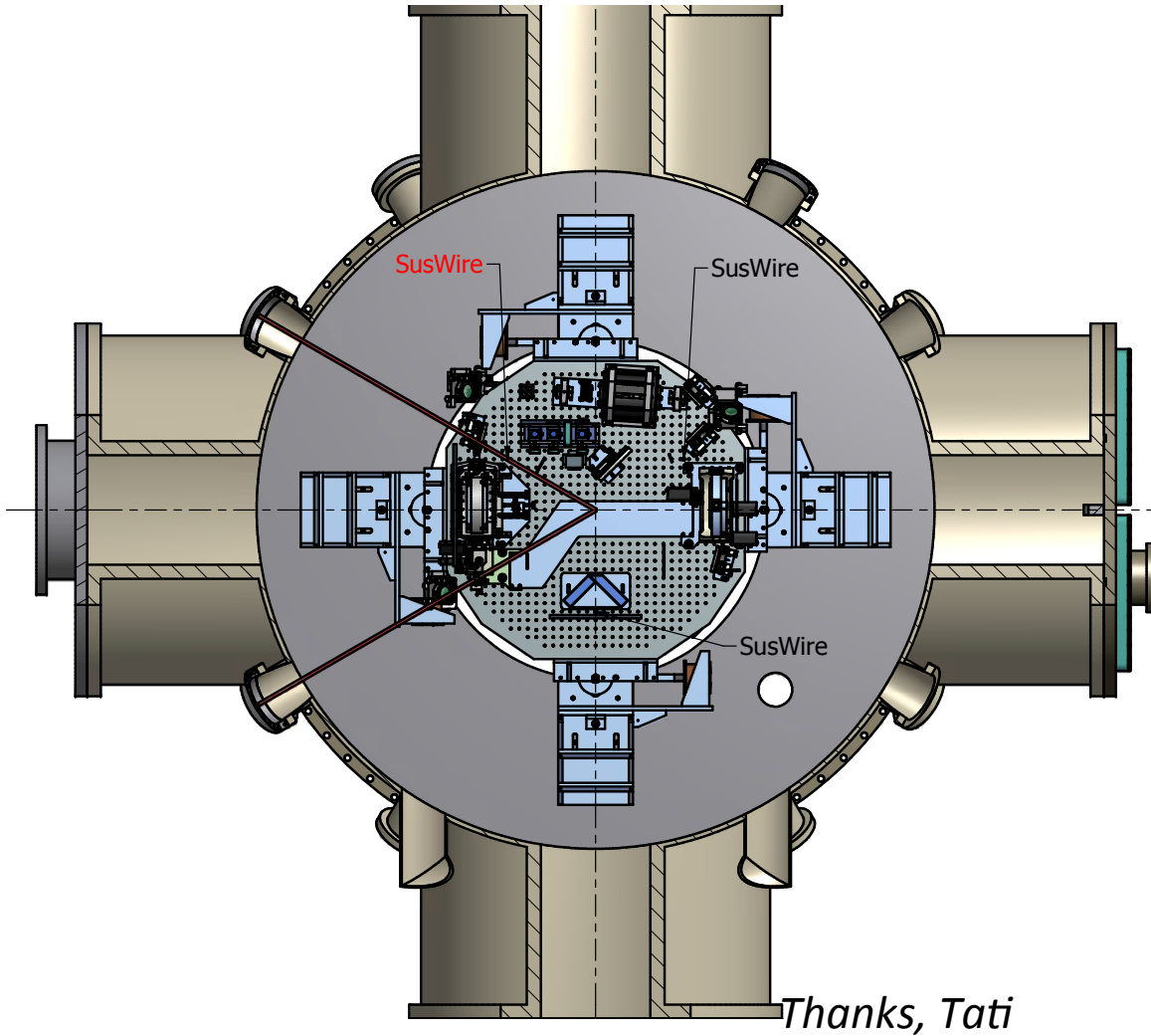
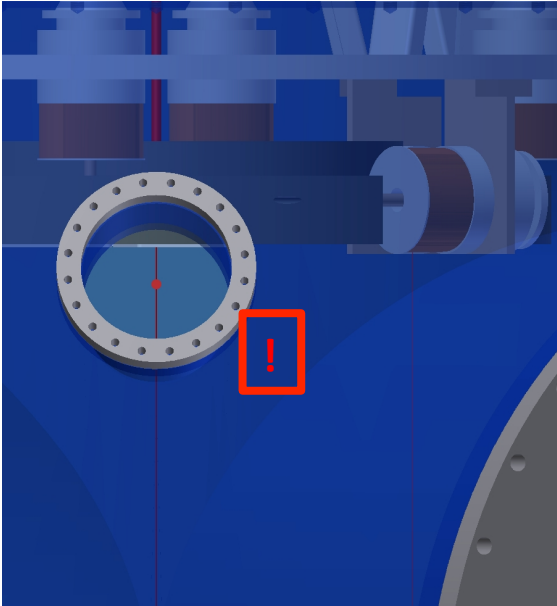
SLED SOURCE: single source 2 mW, 670 nm, splitted (Superlum pilot configuration ordered)

OL2 Heights



Thanks, Tati

OL2 SUSP WIRE !

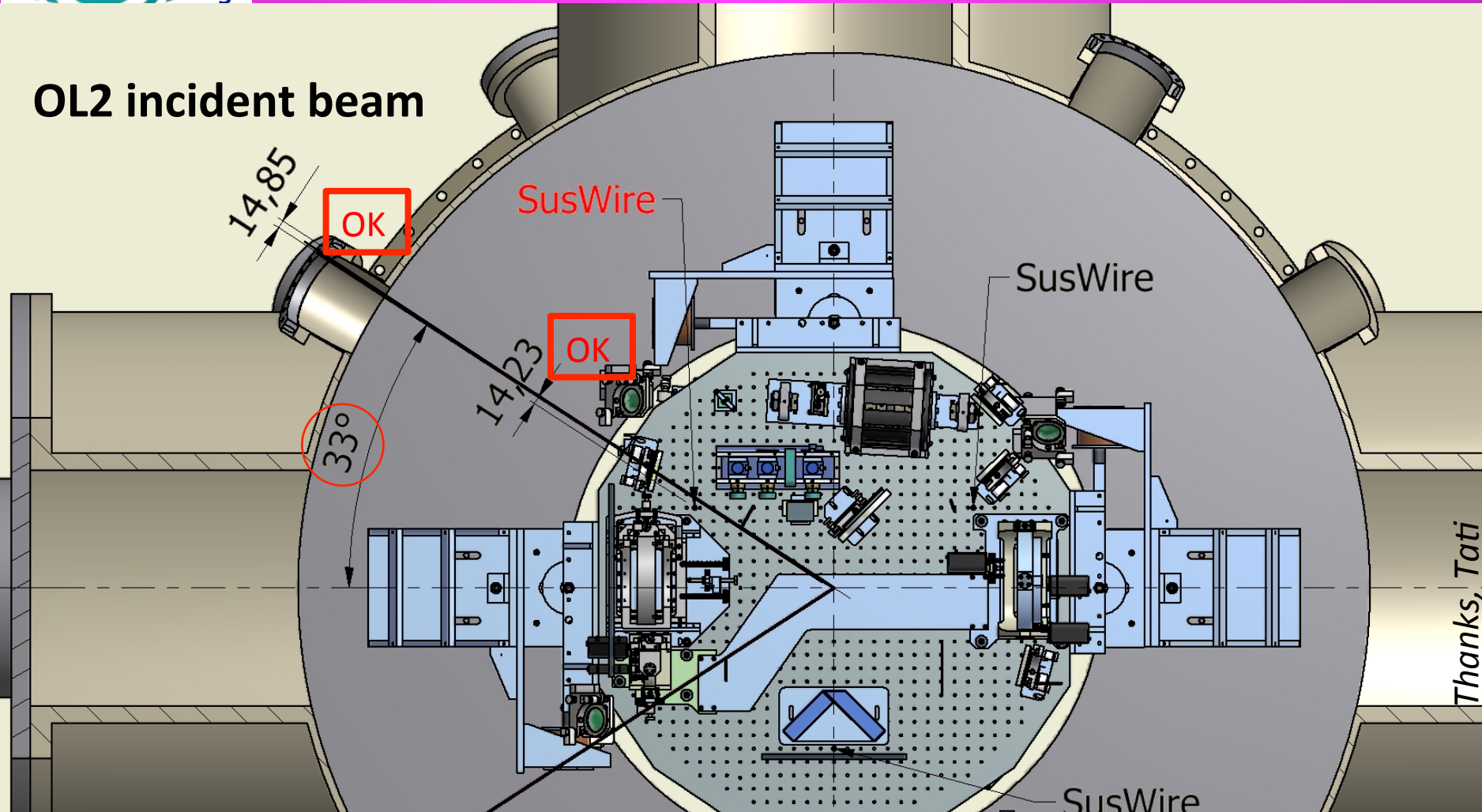


Thanks, Tati



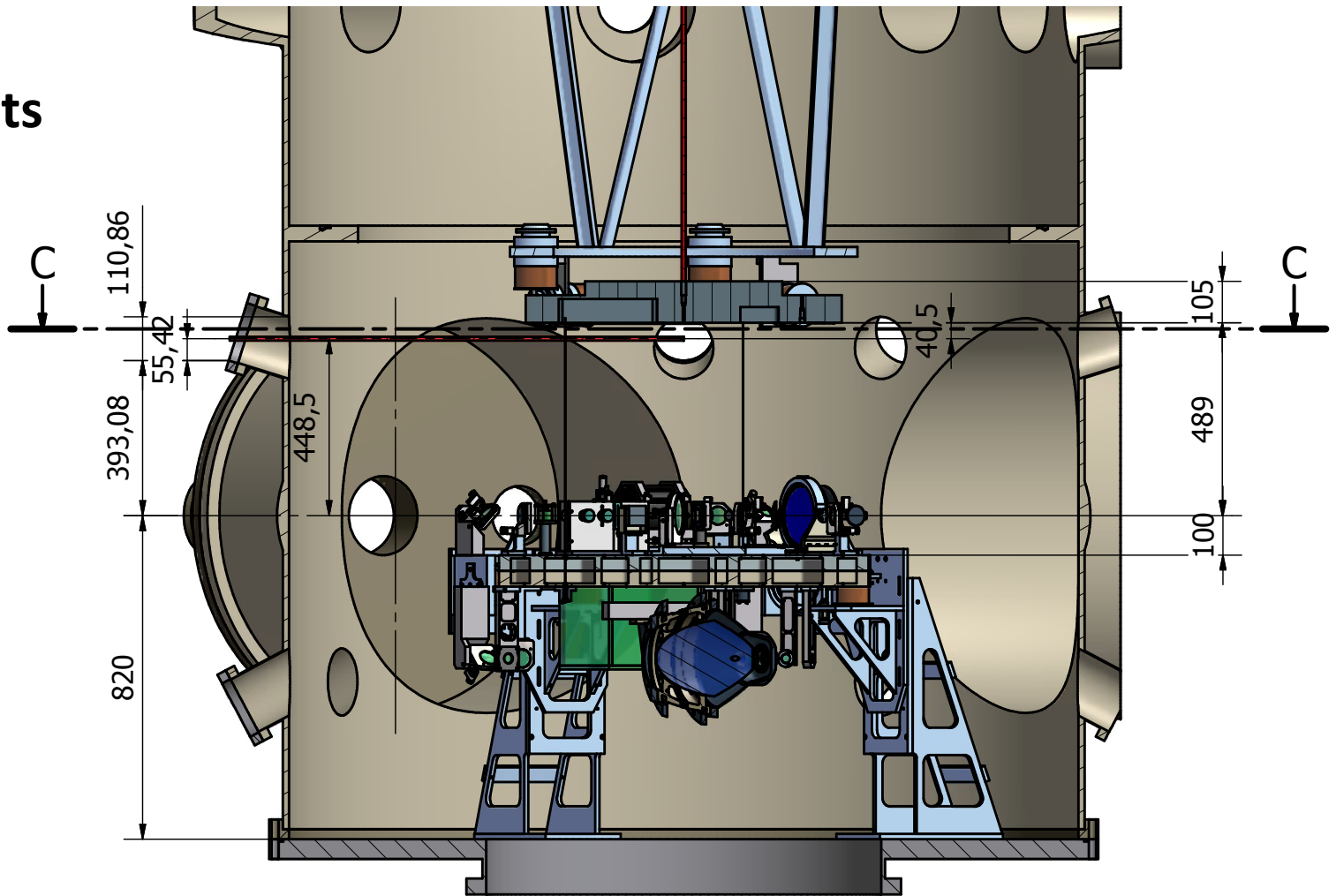
Through WestNorthUp viewport

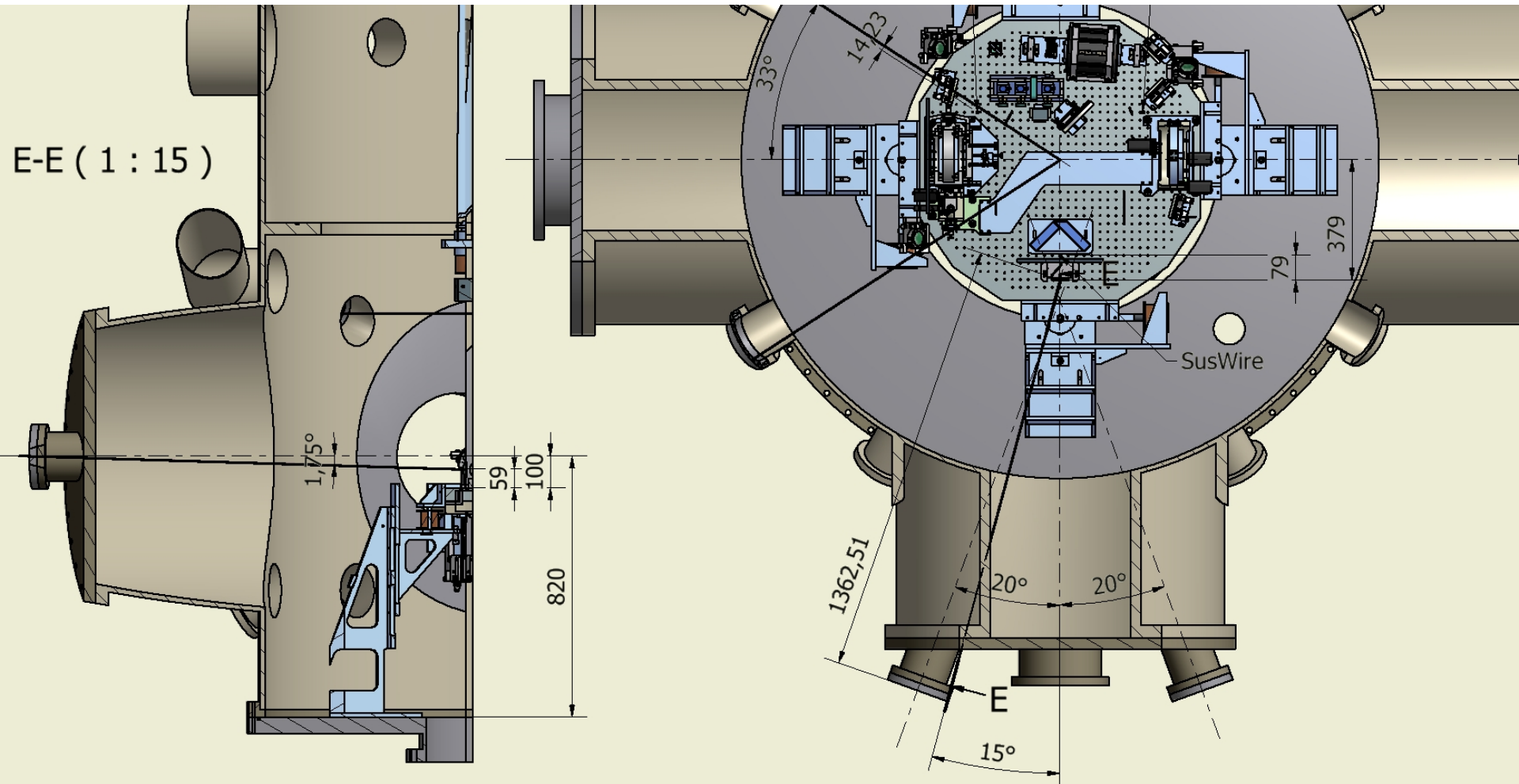
OL2 incident beam



range ty CCW: 6 mrad clips on OL exit viewport (LC lens OK within mirror ty ± 10 mrad)
 range ty CW : 40 mrad clips on OL susp wire
 Remind that ty is controlled by means of OL1, once controlled one can switch on tz,x,
 few hundreds of μ rad at most will be driven by tz. =>OK

OL1 Heights





**OL1 ~ 18 deg
ty range ± 10 mrad (LC lens)**