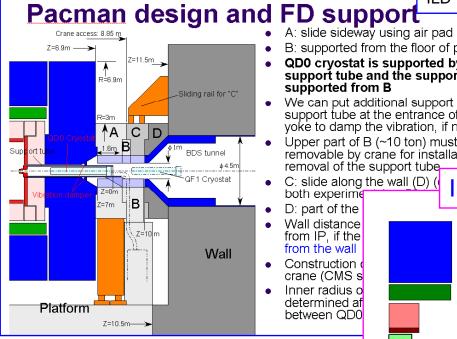
Installation scheme

Nov. 12, '08 KEK H. Yamaoka

'MDI at GLD' by Y. Sugimoto ILD Workshop at DESY, Zeuthen

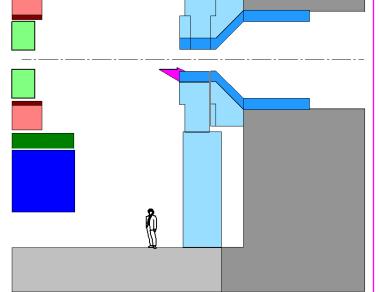


- B: supported from the floor of platform
- QD0 cryostat is supported by the support tube and the support tube is supported from B
- We can put additional support for the support tube at the entrance of endcap yoke to damp the vibration, if necessary
 - Upper part of B (~10 ton) must be removable by crane for installation and removal of the support tube

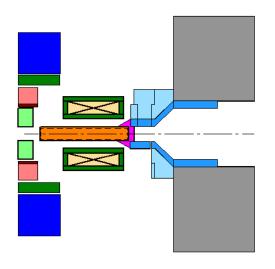
C: slide along the wall (D) (both experime

- D: part of the
- Wall distance from IP, if the from the wall
- Construction (crane (CMS s
- Inner radius o determined af between QD0

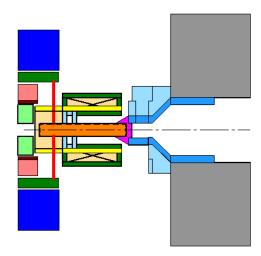


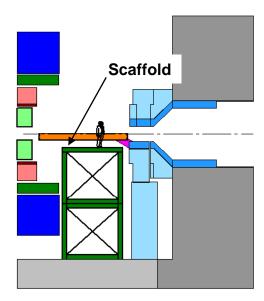


1.

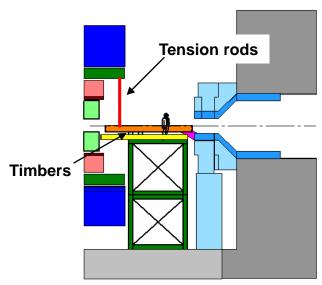




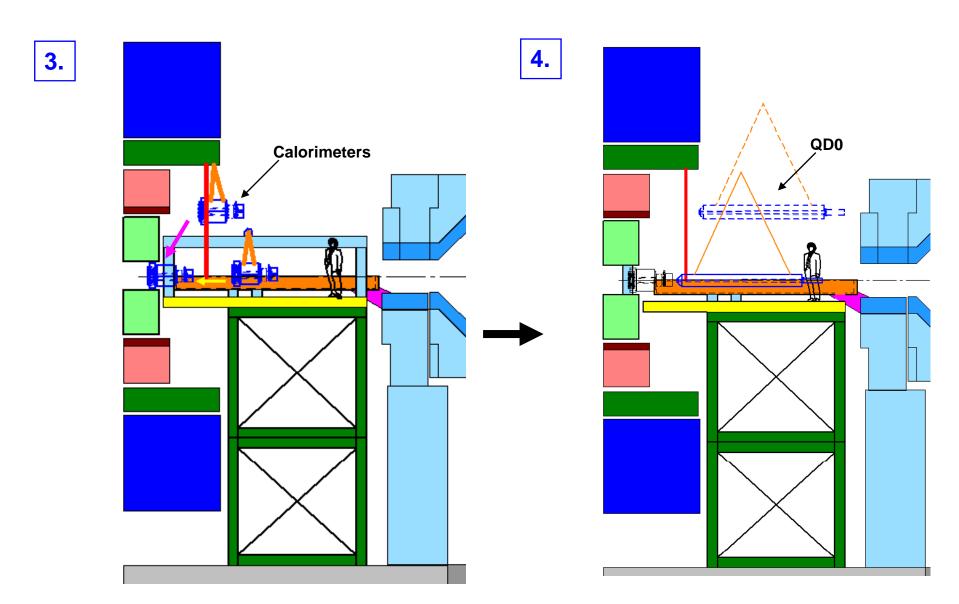








- Temporal rigid scaffold is set on the floor.
- The bottom half-cylinder is connected.
- -Top of the support tube is supported by tension-rods.
- or, It is supported by timbers at the bottom.
 - → 20mm sagged in case of the half-cylinder.

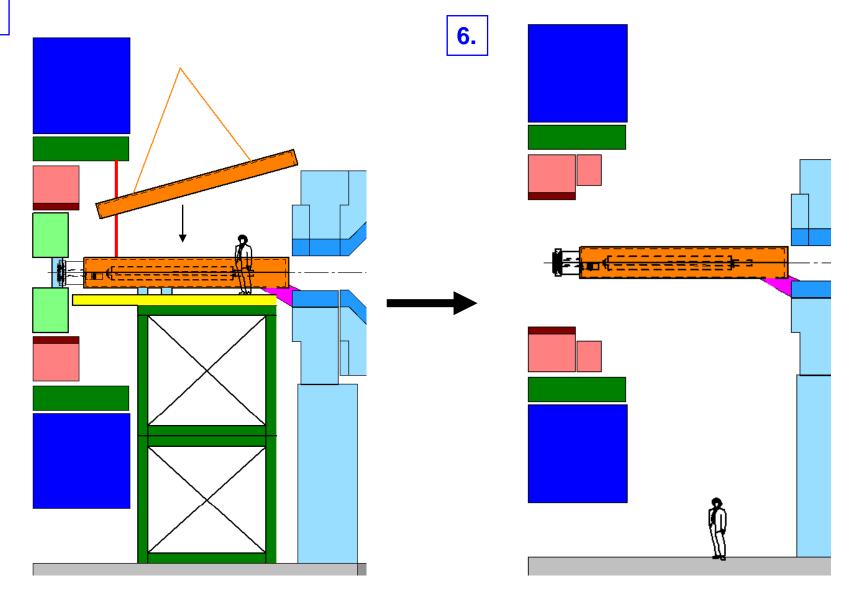


- Set Calorimeters.
 - (a) Set chain hoist on the inner cryostat.

or

- (b) Assemble support frame on the temporal scaffold.
- QD0 is lifted by crane.
- Set it to the correct position.

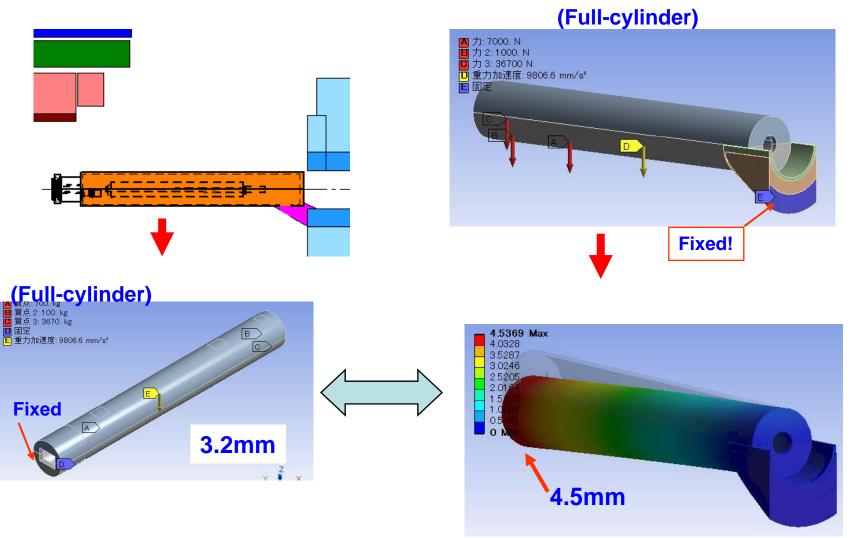
5.



- Upper support tube is lifted by crane.
- Set it to the correct position.

- -Remove the temporal scaffold.
- -Finished.

Stiffness at the support position



- → Deformation is 40% increased.
 - 3.2mm → 4.5mm(Full cylinder)
 - 6.0mm → 8.4mm(Estimation: Bolts connection)
- →There must be some ideas to increase the stiffness at the support position.