



Integration procedure DFX vertical part in the Tunnel

R. Betemps, Y. Yang, M. Amparo

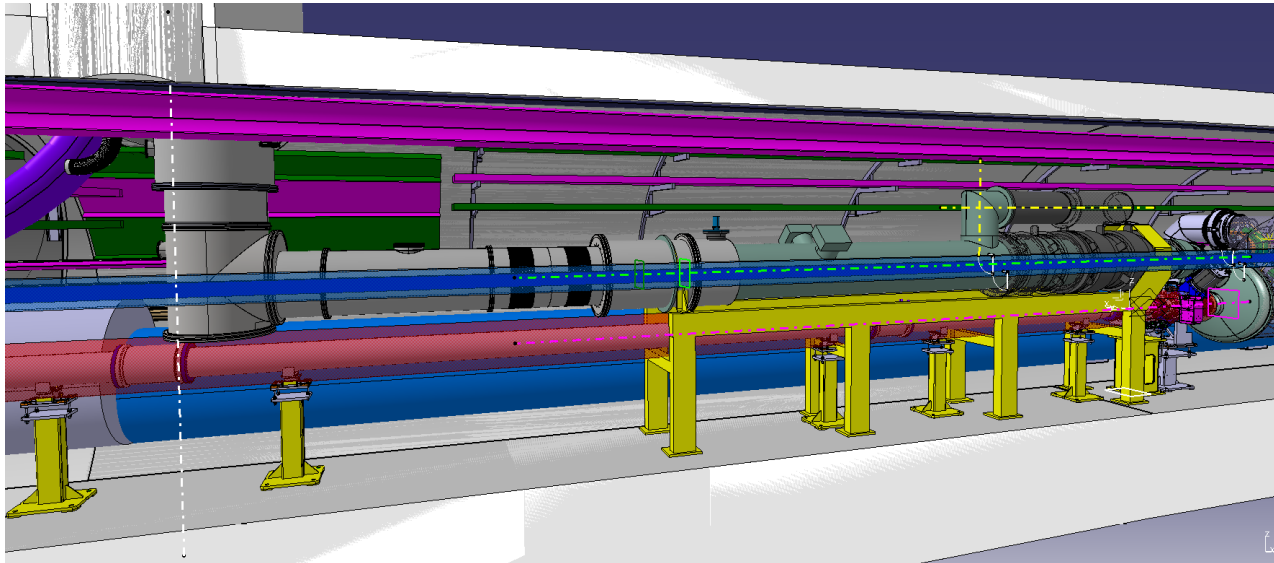


Summary

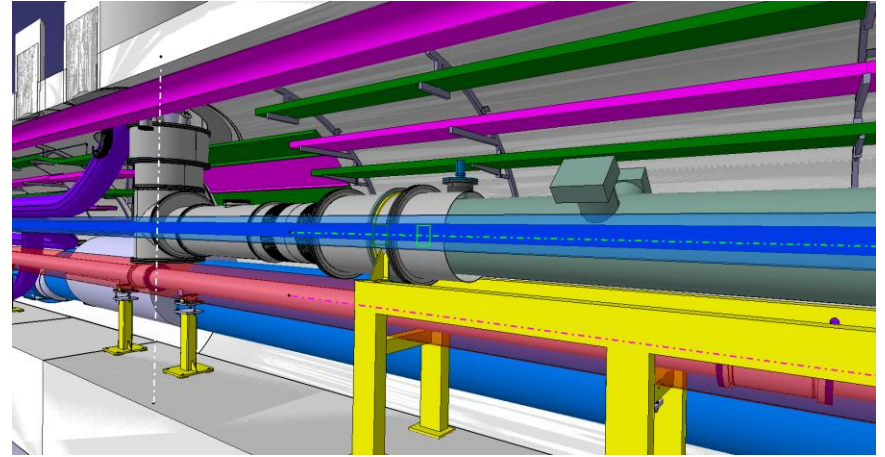
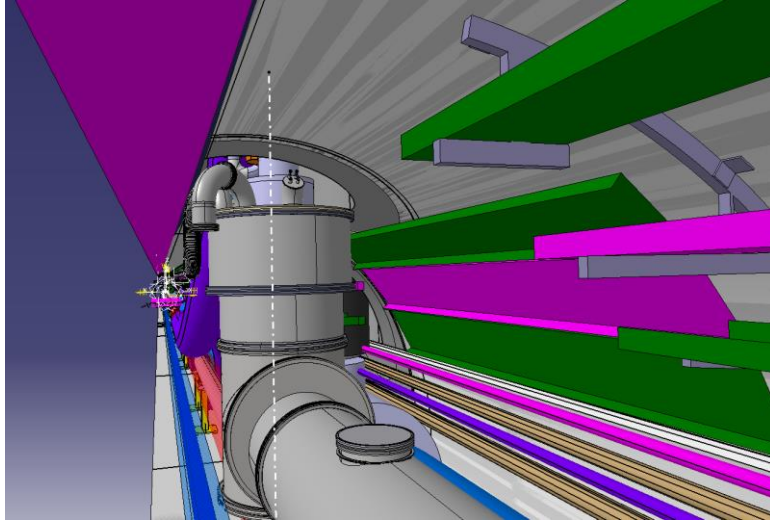
- Integration of the DFX in the Tunnel
- Tunnel space and working area
- DFX unit.
- SC link (DSH) with the splice box
- Integration process.

Integration of the DFX in the Tunnel

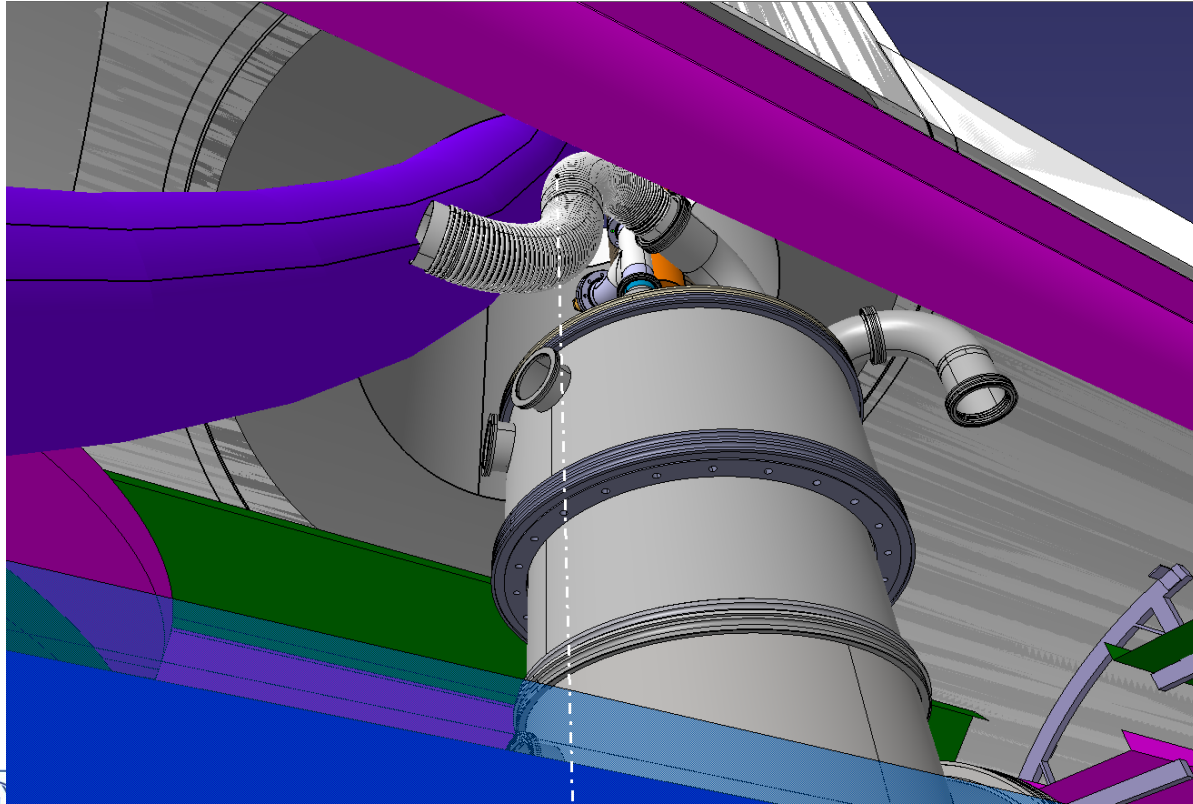
- Reference document for integration EDMS XXXXX
- We considerer for the image the point 5L (more critical)



Integration of the DFX in the Tunnel

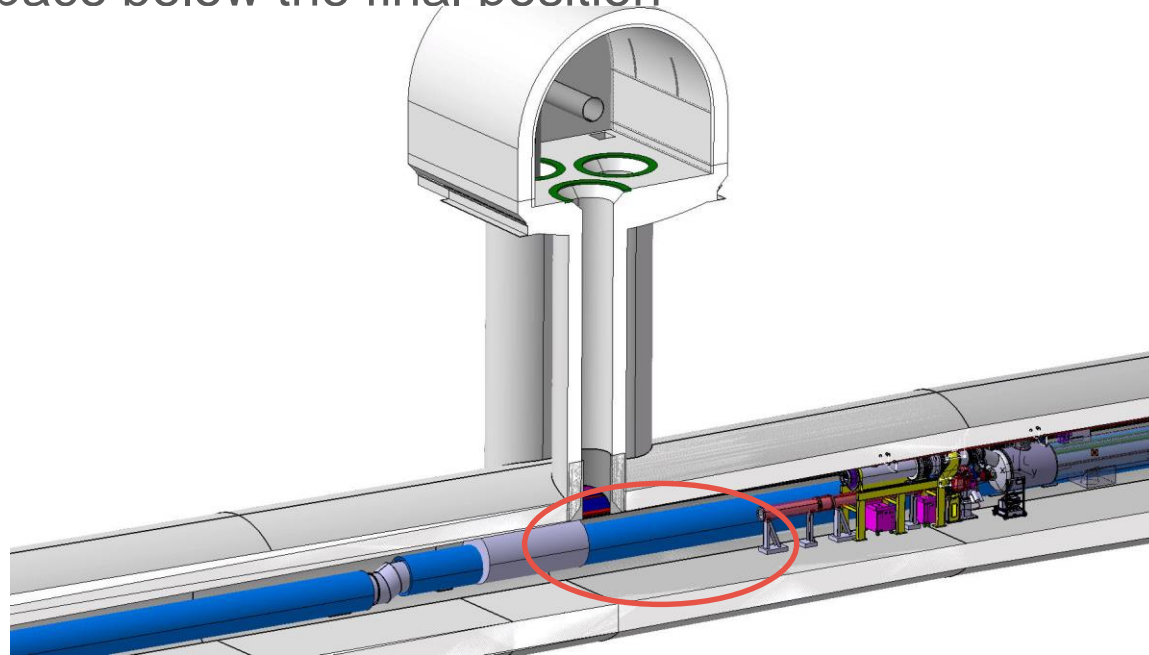


Integration of the DFX in the Tunnel

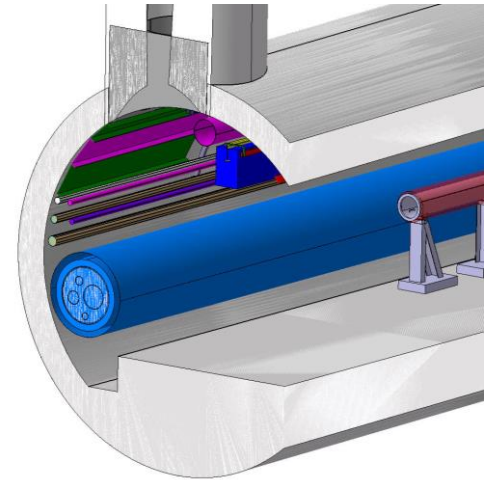
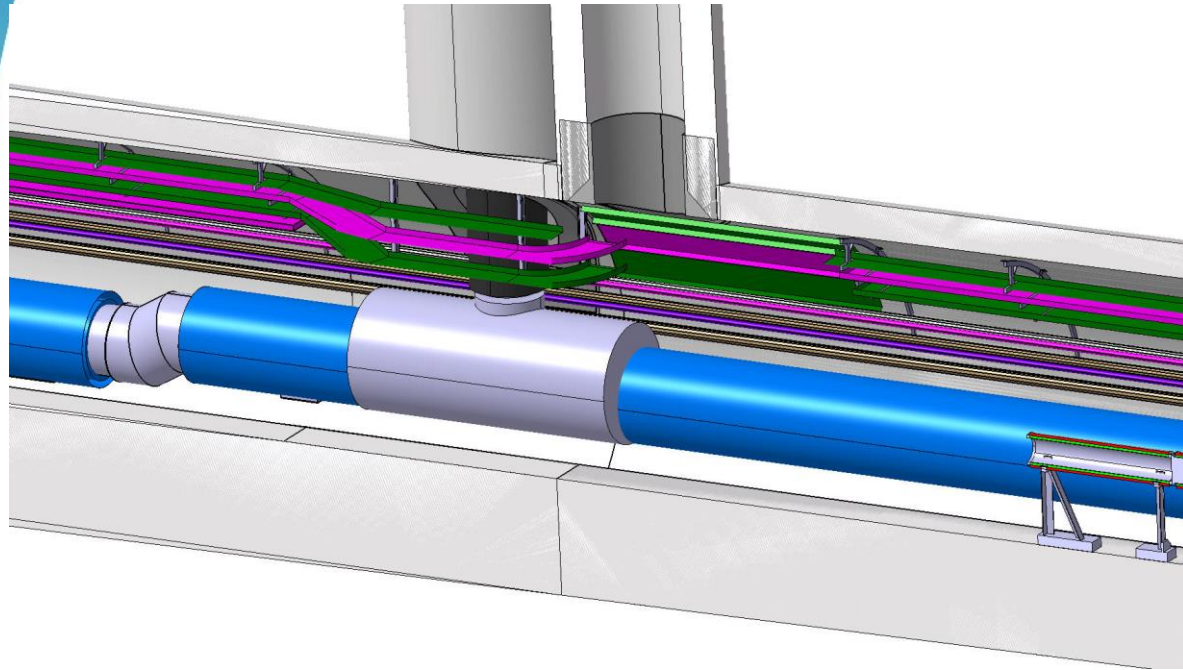


Tunnel view for installation

- Not beam pipe
- Free space below the final position



Tunnel view for installation



DFX unit

- 2 sub unit for the DFX

➤ Vertical



➤ Horizontal

Dimensions : 800 x 800 X1750

Dimensions :

SC link (DSH) with the splice box

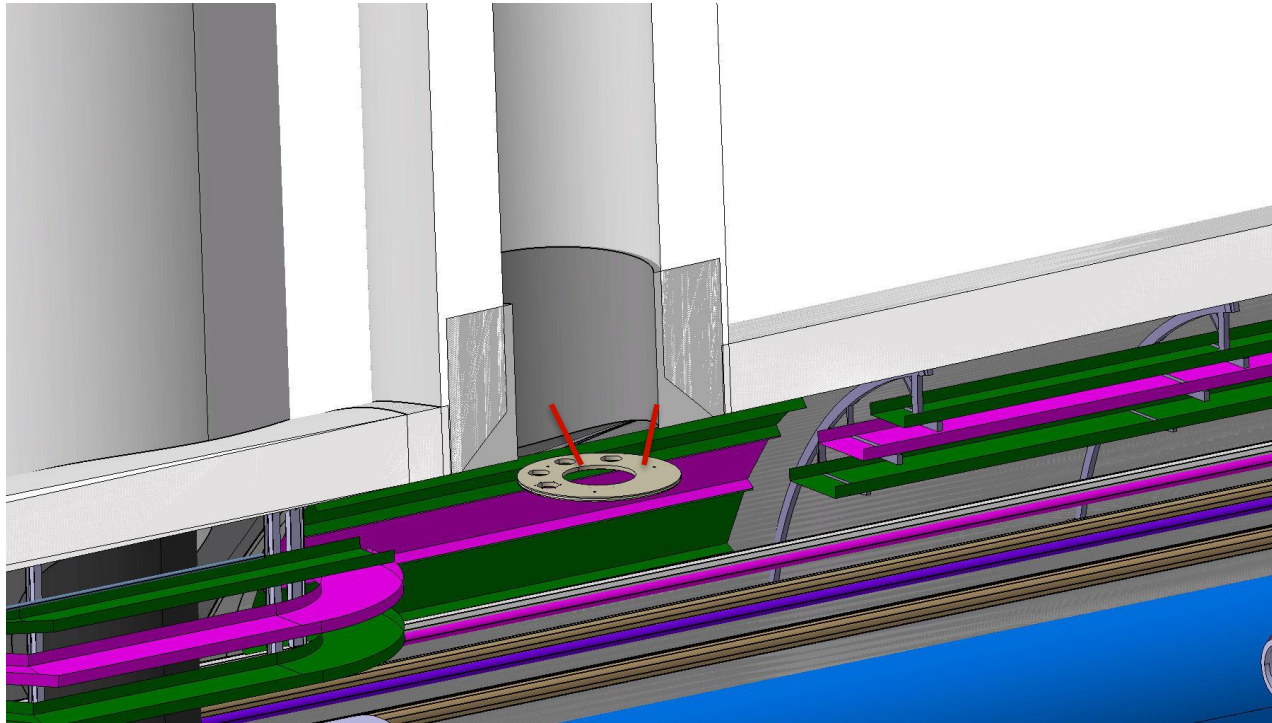
- End of the SC link DSHx :



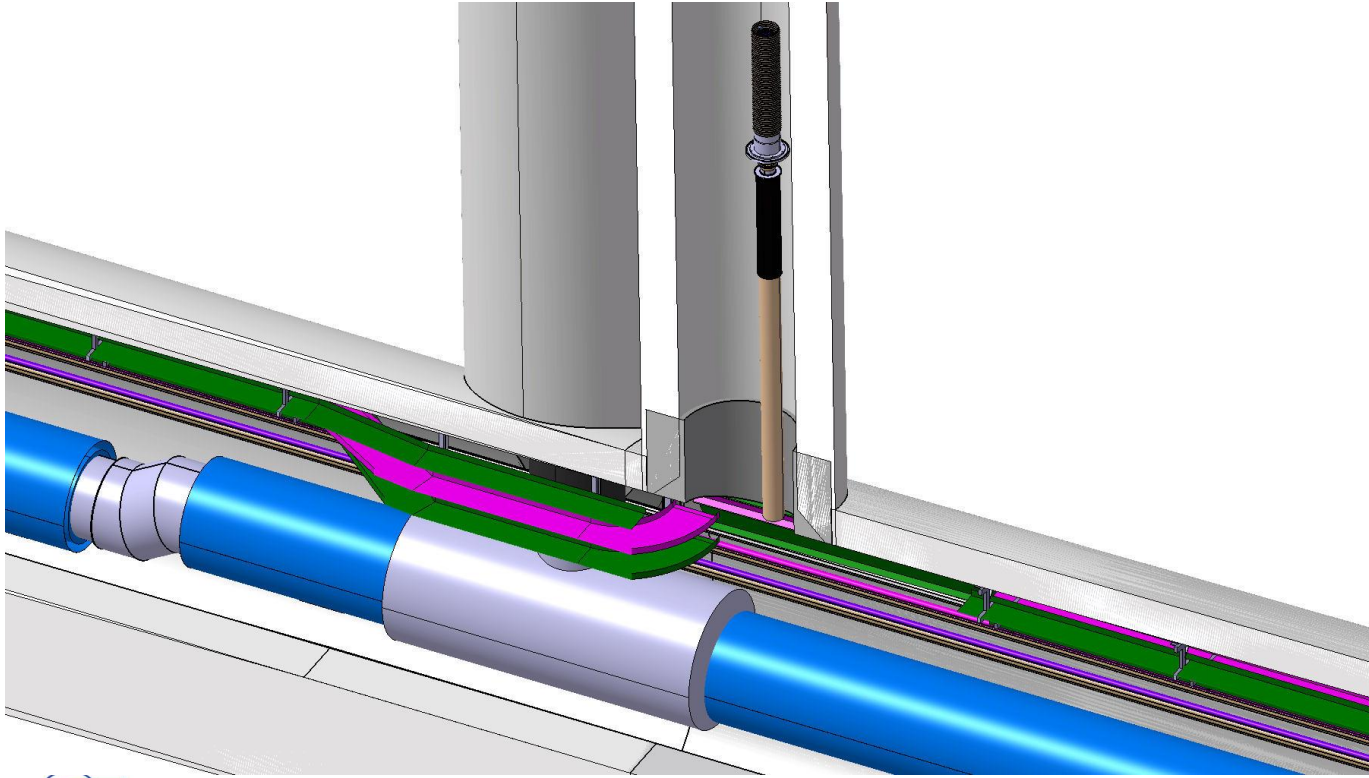
Integration process vertical unit

- Top Flange in position
- DFX preparation (vertical unit)
- SC link (DSHx) in assembling position
- Welding & welding check
- Move SC link DSHx & DFX in final position
- Welding of the accessory
- Close the vacuum chamber and adjust the fixation to the top flange
- Bend the NbTi busbar

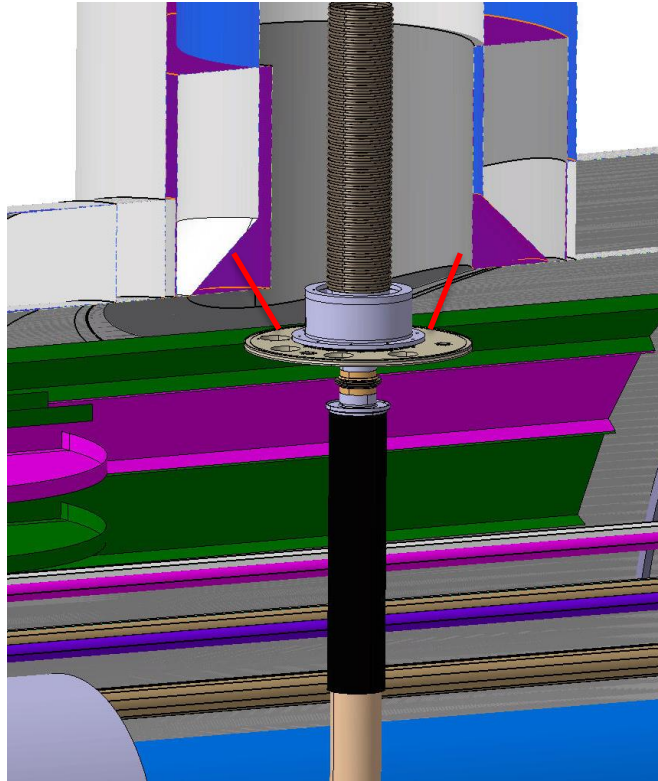
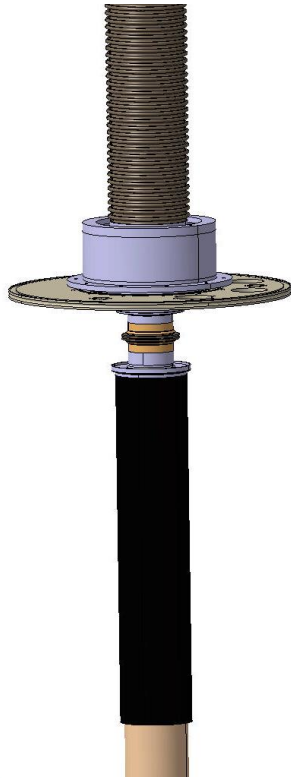
Top Flange in position



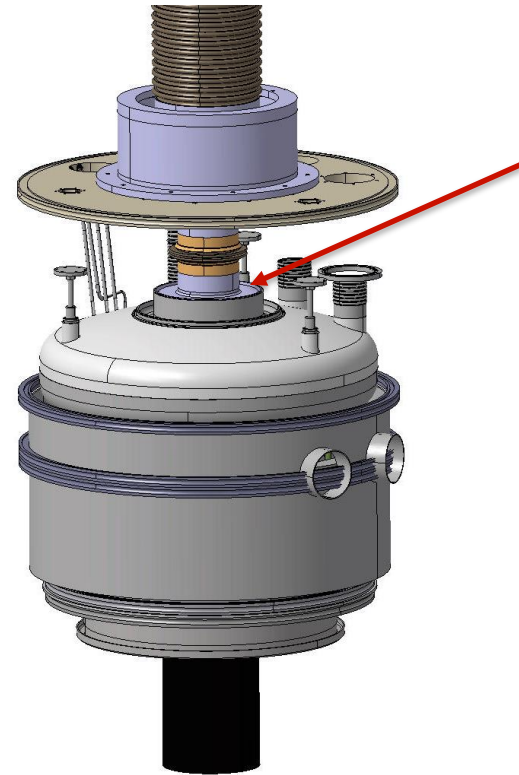
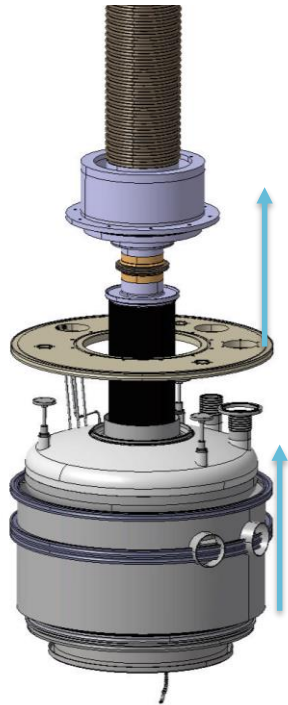
DFX preparation (vertical unit)



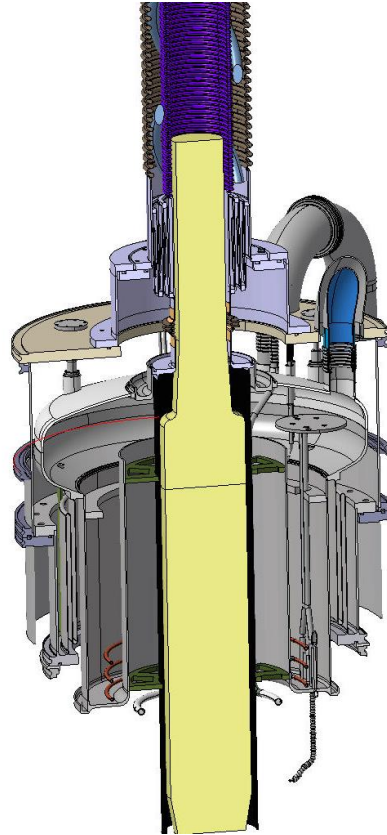
SC link (DSHx) in assembling position



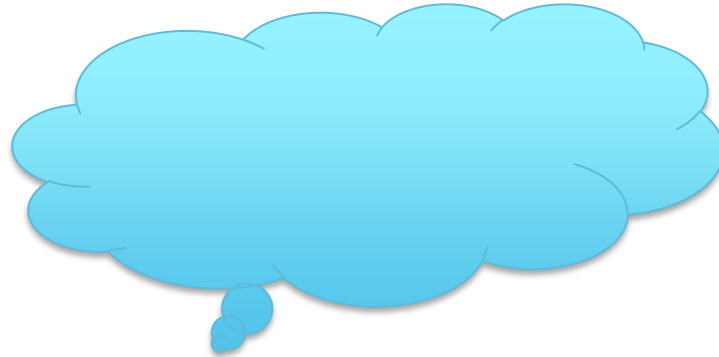
Welding & welding check



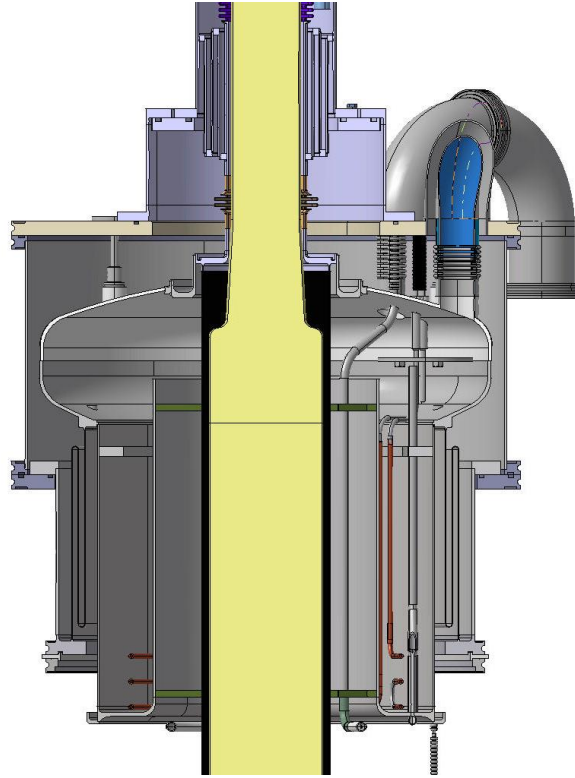
Move SC link DSHx & DFX in final position



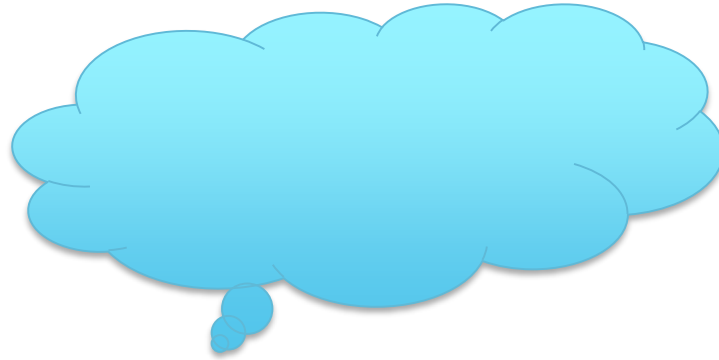
Welding of the accessory



Close the vacuum chamber and adjust the fixation to the top flange



Bend the NbTi busbar





Thank you

