

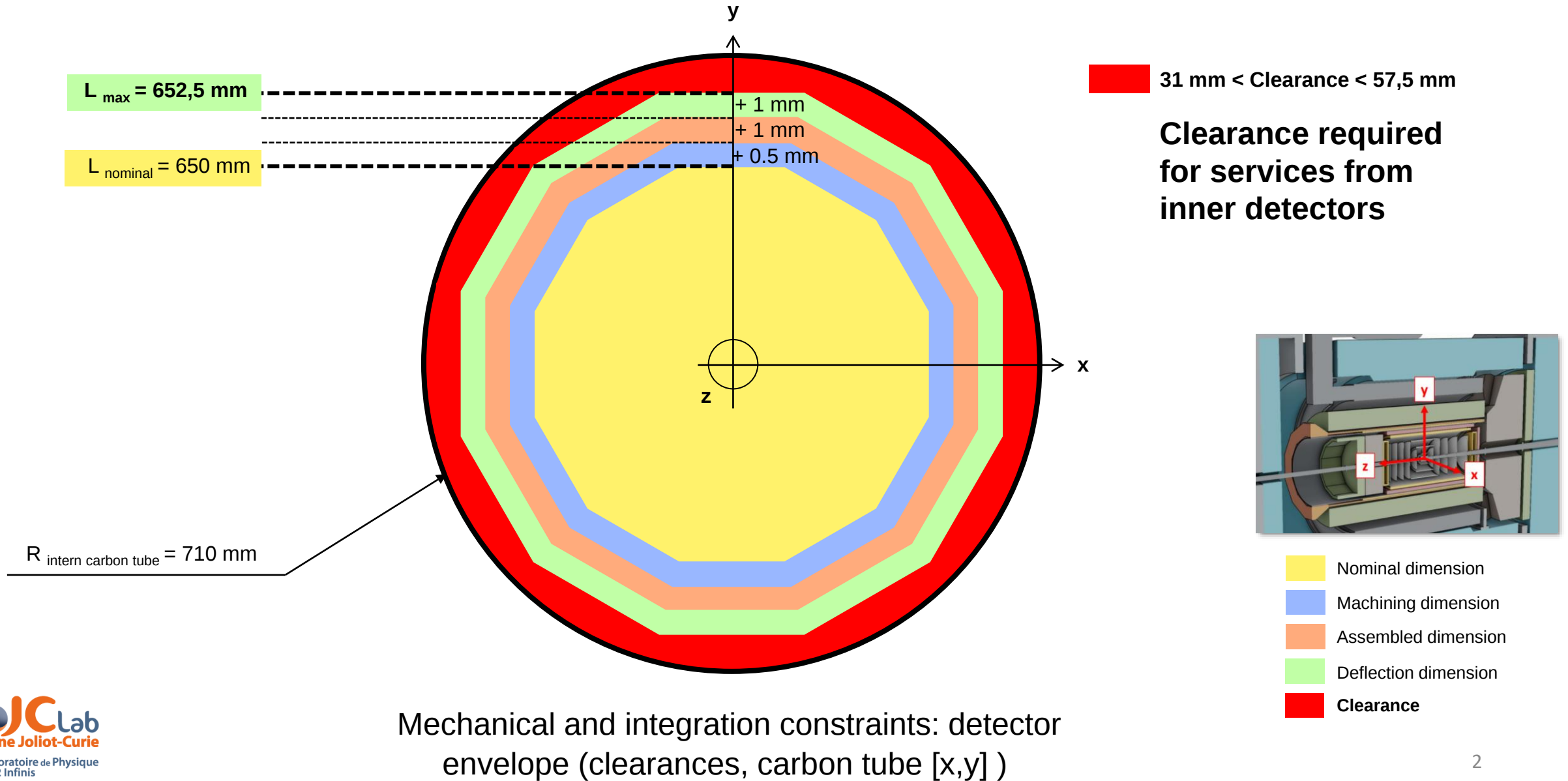
# Backward Ecal / EEEMCal

Triple I Engineering Meeting Update (20/07/2026)

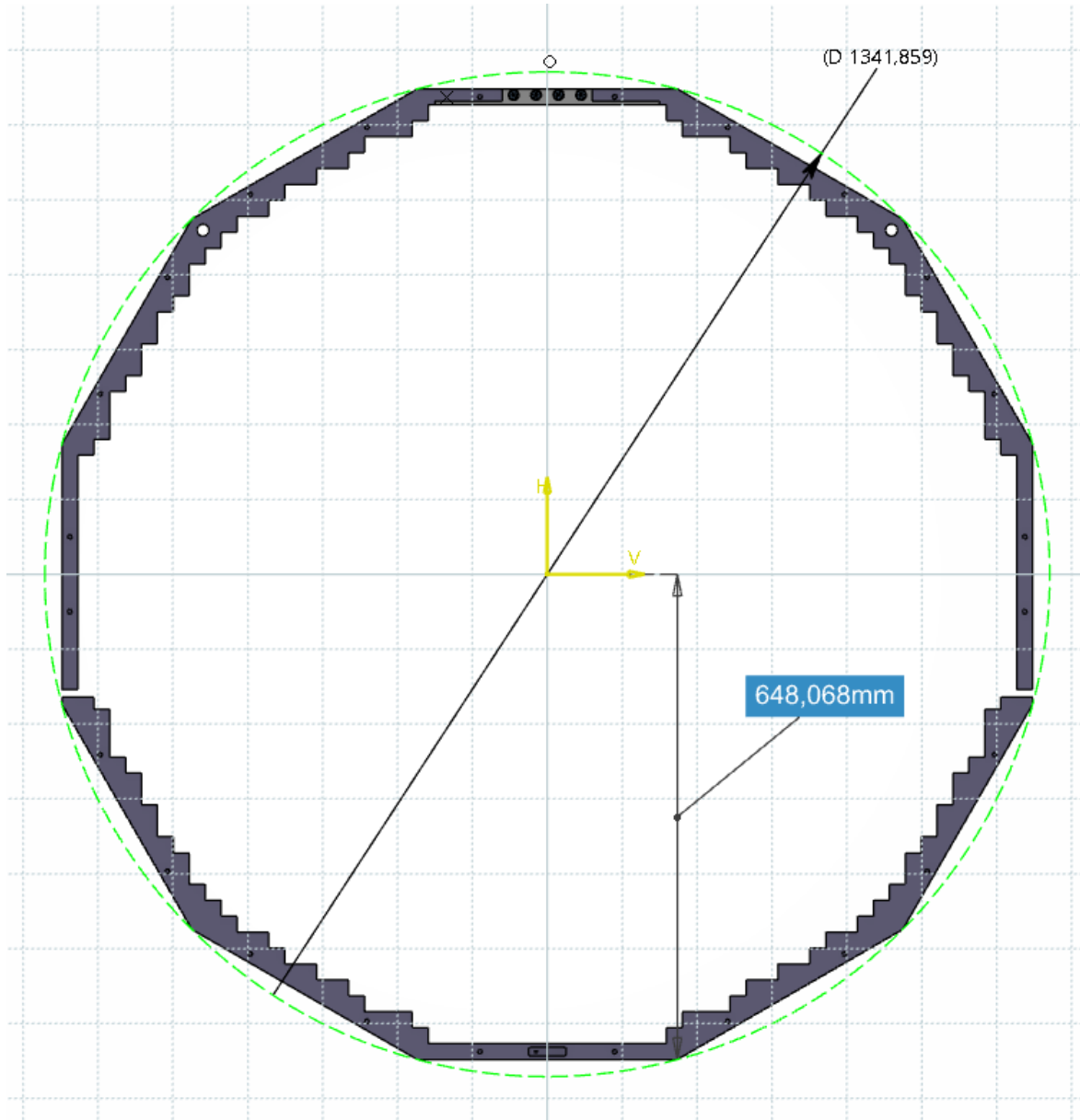
**Julien Bettane**



# Clearances (slide from FDR)



# Clearances (new design)

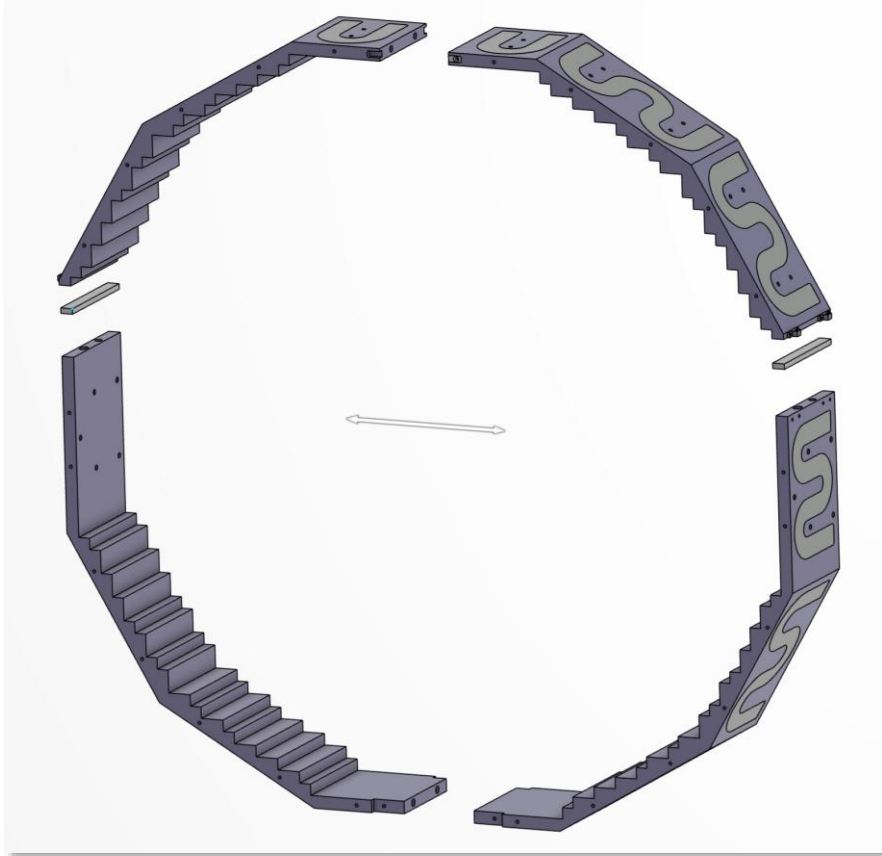


## □ Design

- D= 648 mm

## □ Current work

- Make a mechanical prototype
- Find a company
- Perform final FEA
- Validate the deflection calculated

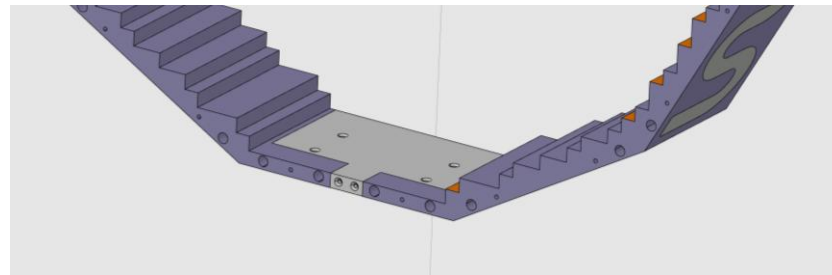


## ☐ External structure not machined in one block (4 parts)

- Better for the cost
- Better for the Eddy current
- Better for the contact with crystals on the top (cooling)
- Better for the adjustments

## ☐ To ensure integrity of the structure

- Cover plate inside (5mm) on the top and the bottom to link
- To limit the deflection



*Aluminum Cover plate (Thermal conductivity = 185 W/m.K)*

# Clearances (bottom plate)

