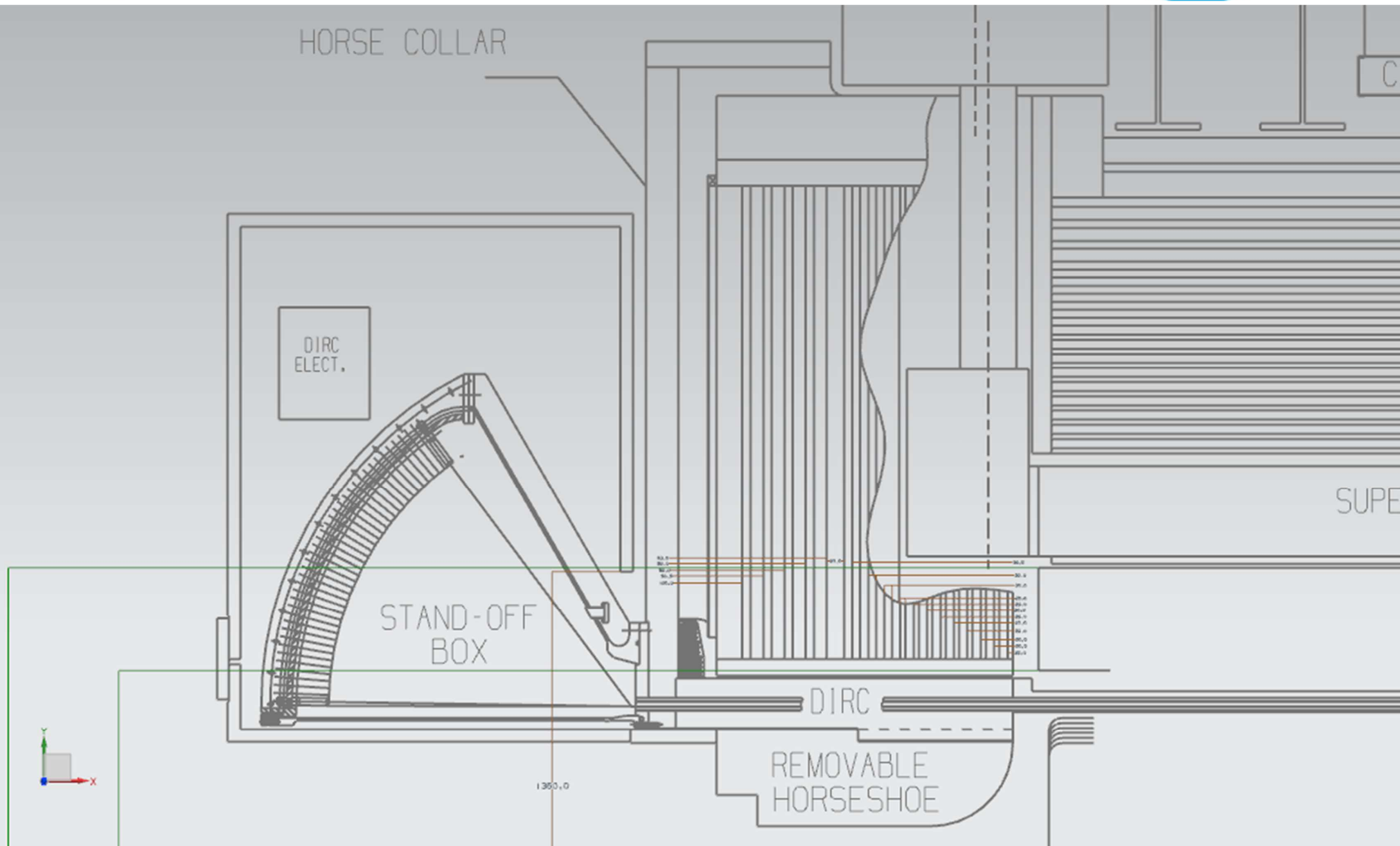
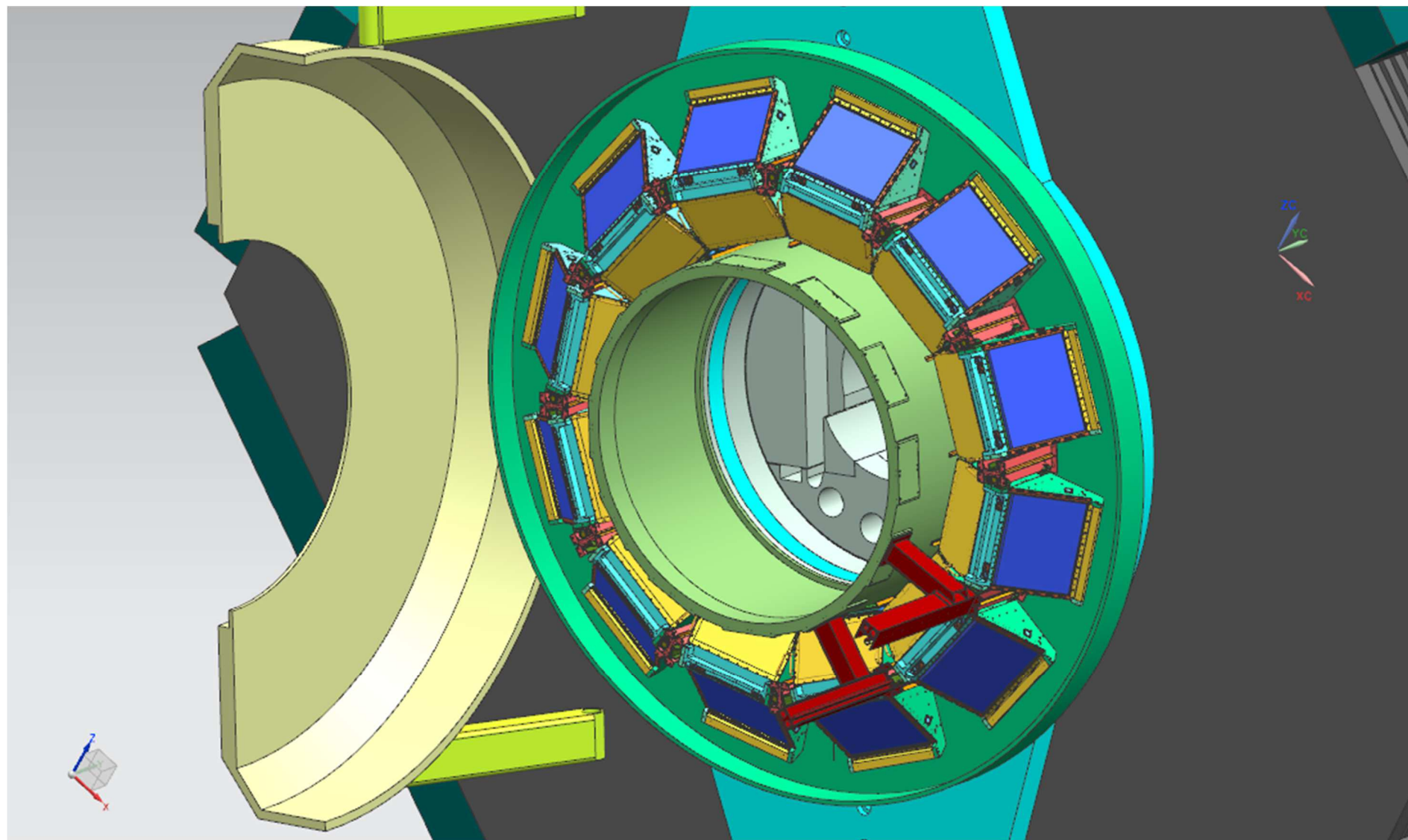


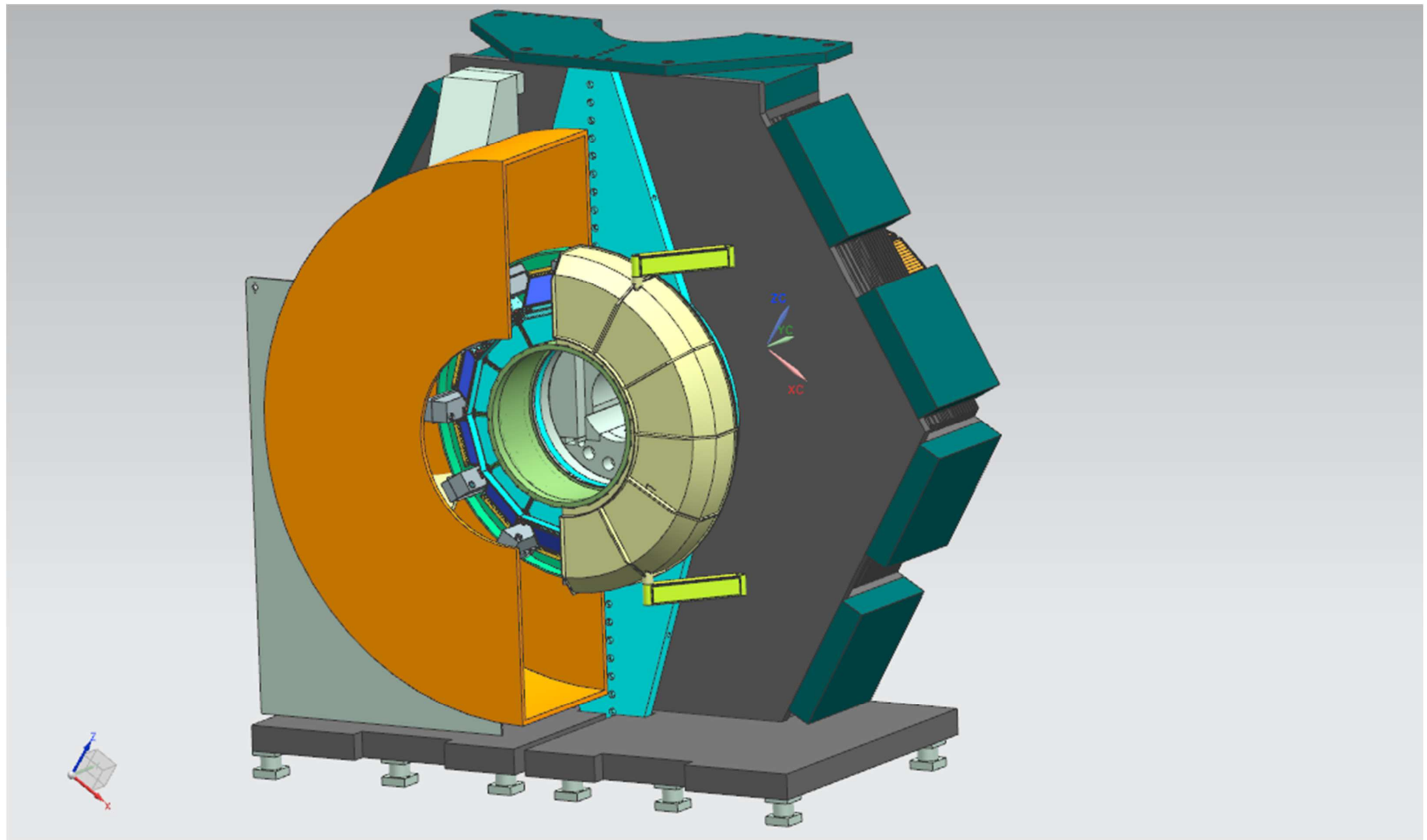
# **DIRC shielding (in view of TDR)**

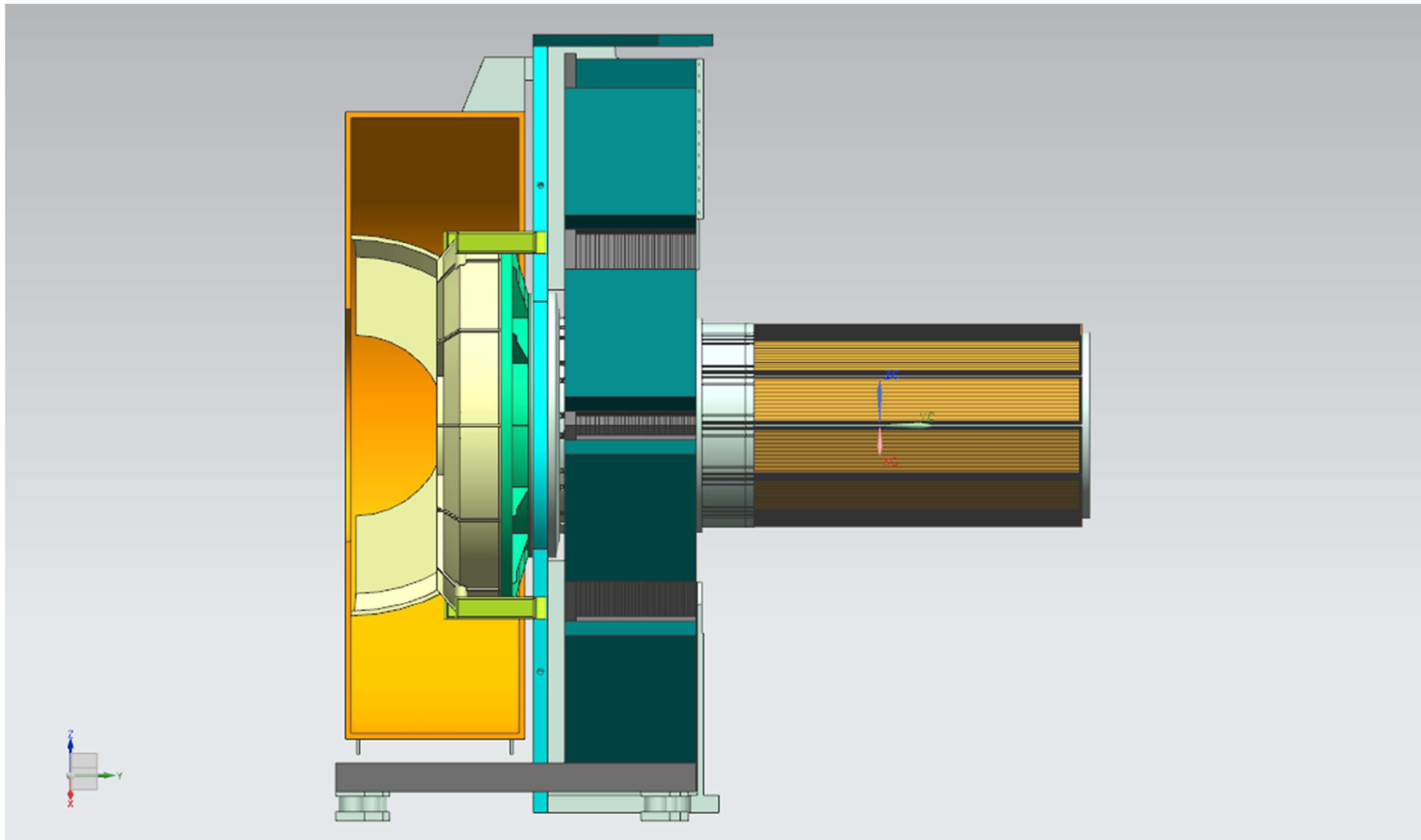
**13 December 2011**

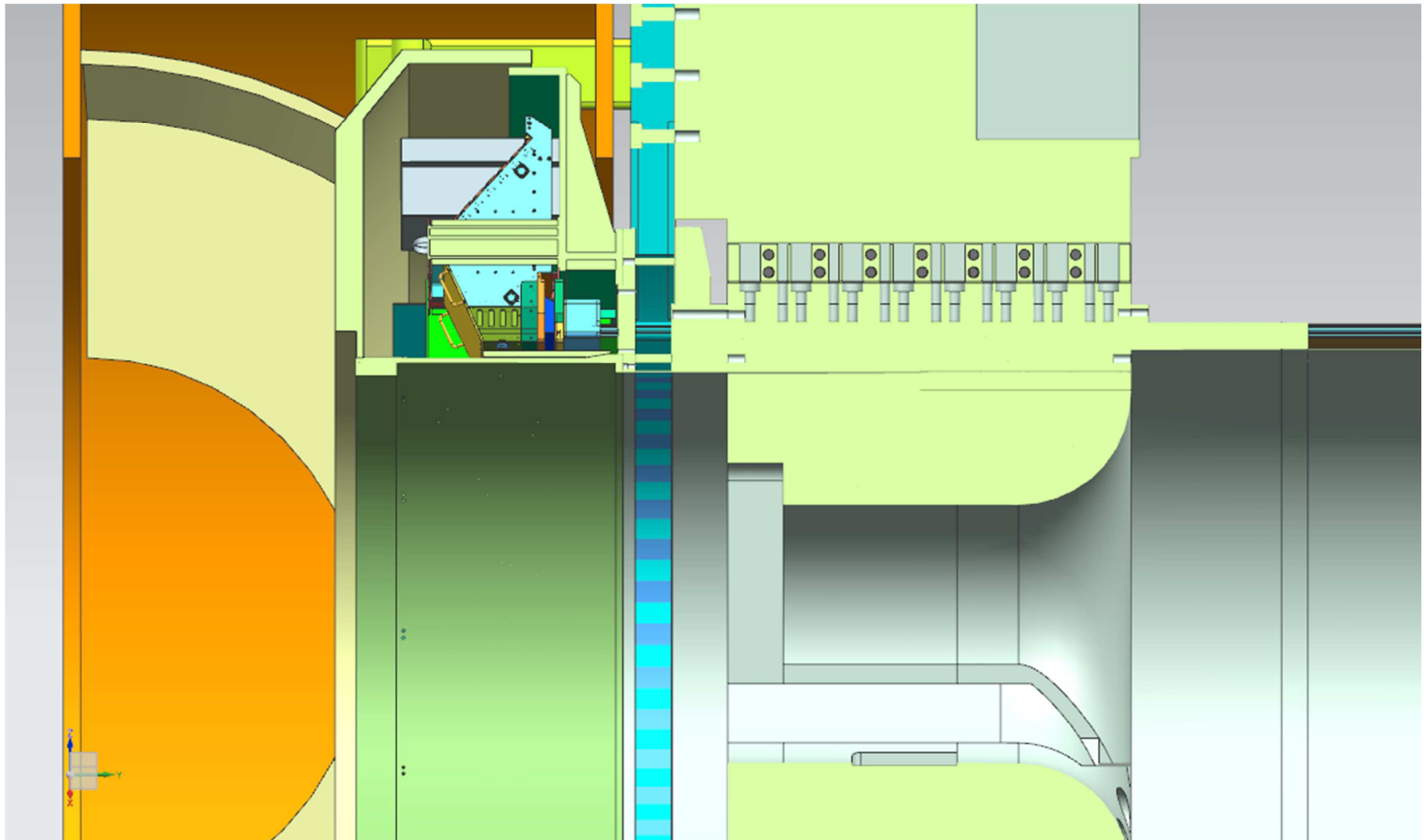
**M. Benettoni**



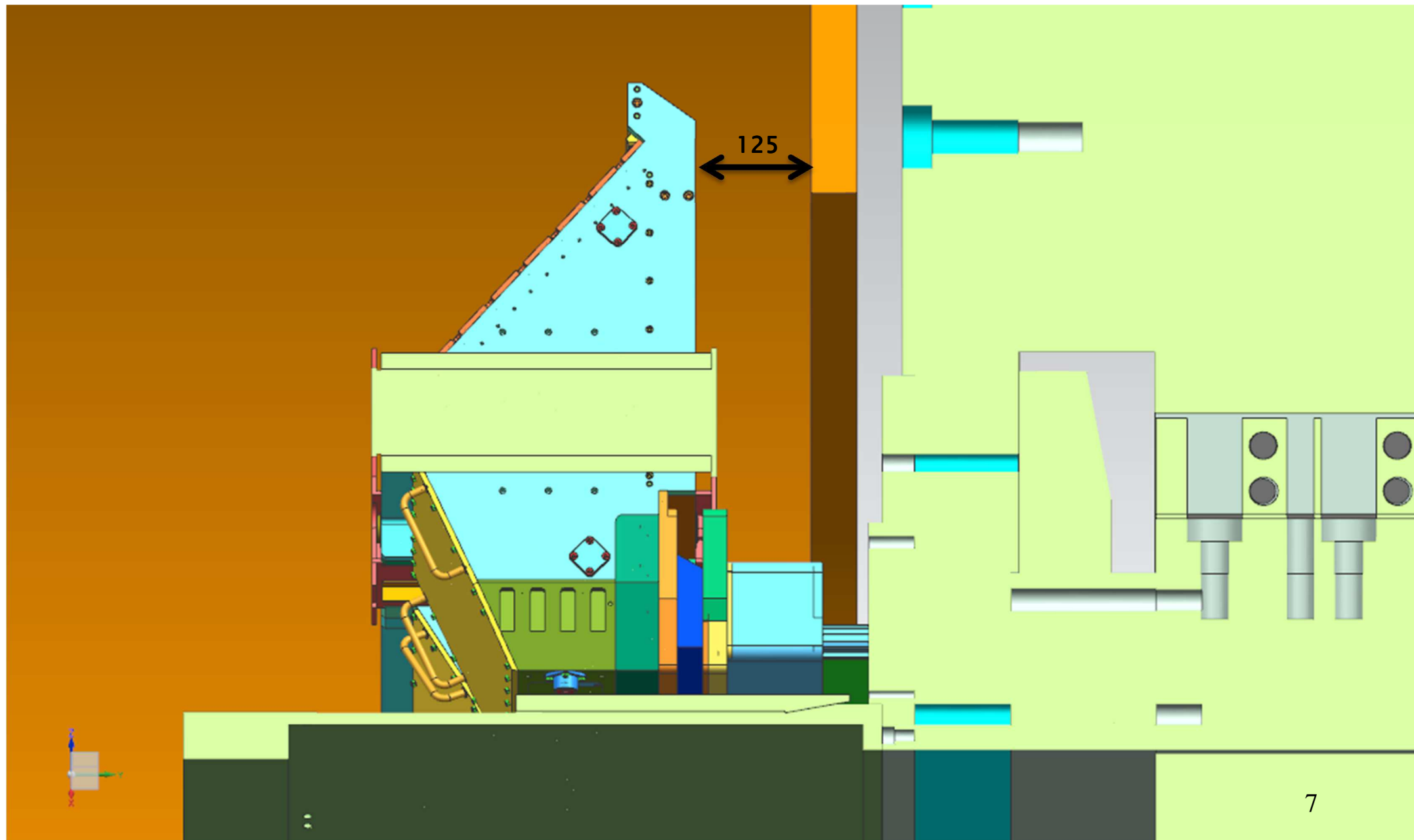












- Magnetic shield should weight about 10 ton - if dimensions as represented and same thickness of Babar shield (50mm) - wrt Babar 30t shield. Thus cost esteem for production is about 30k€
- Shipping cost of Babar DIRC magnetic shield could be about 20 k€ due to large dimensions (exceeding container height)
- New magnetic shield could allow huge space saving
- Distance between Fbox and Babar magnetic shield 125 mm, support disk should fit in.
- Fbox support disk may be part of the new small magnetic shield

Proceeding to design the DIRC shields in view of TDR

- Get reliable model of SOB shield, including missing inner parts
- Define magnetic shield baseline: Babar shield recycling or new one
- Magnetic shield design
- Optical /light (and dust) shield for each single Fbox
- Esteem volume and position of electronic crates w.r.t. PMTs window
- Define cooling method requirements and baseline
- Esteem of magnetic shield thickness if new of smaller volume
- Define baseline magnetic shield
- Position and thickness of background shield



