

Joint Institute for Nuclear Research



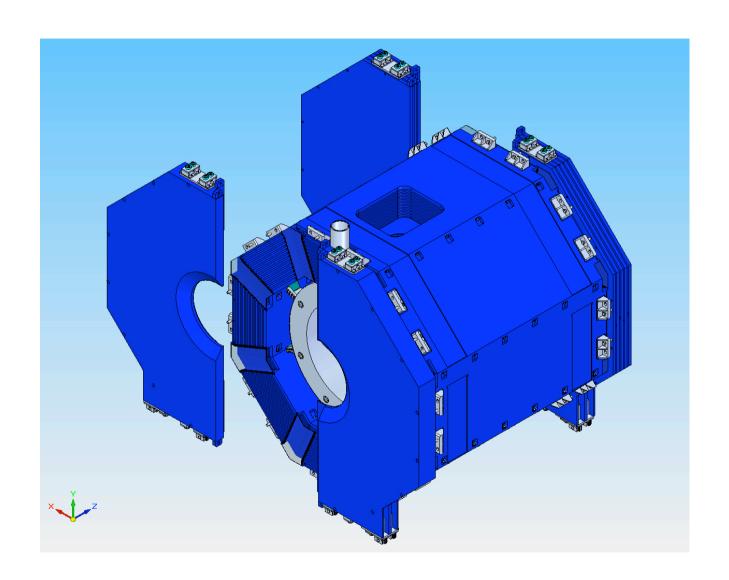
Status of the PANDA TS flux return yoke design

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Yoke layout (new)



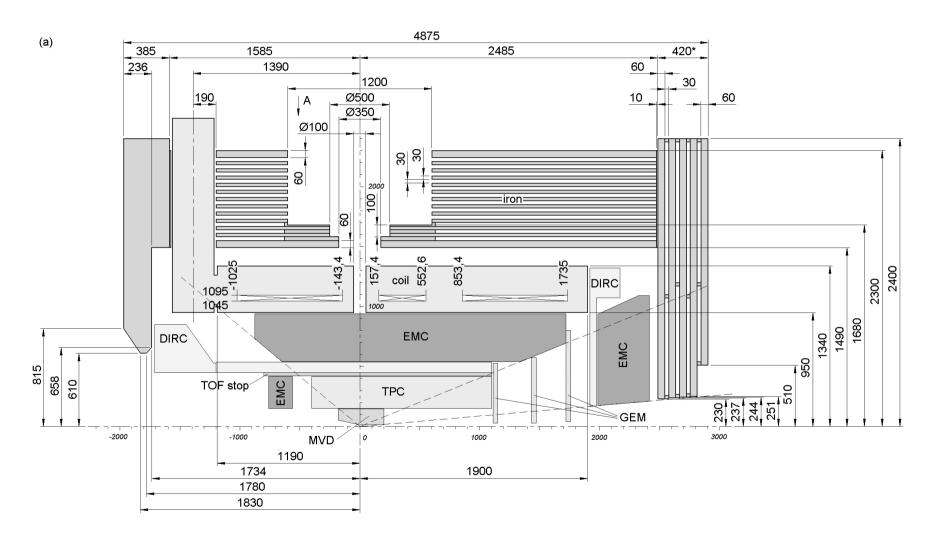




Yoke cross-section



Side view

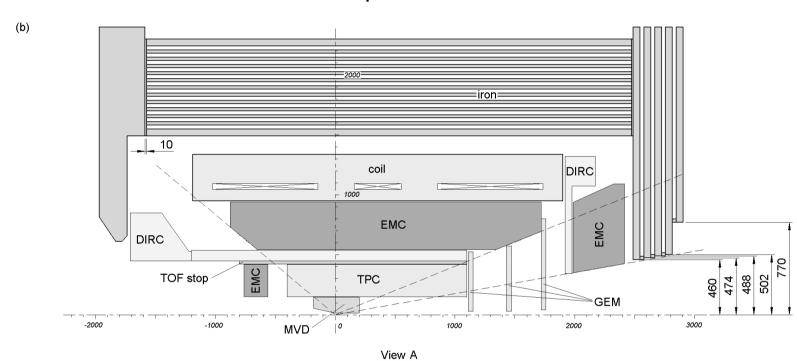




Yoke cross-section



Top view

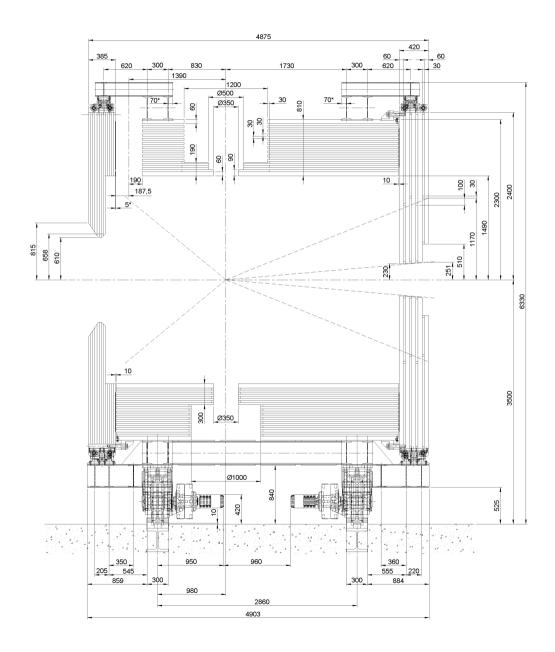


R20 R150



Yoke cross-section

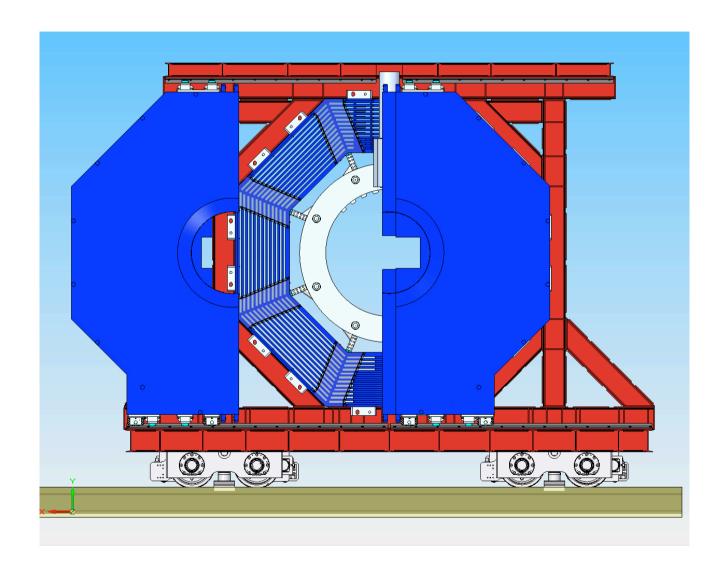






Solenoid front view

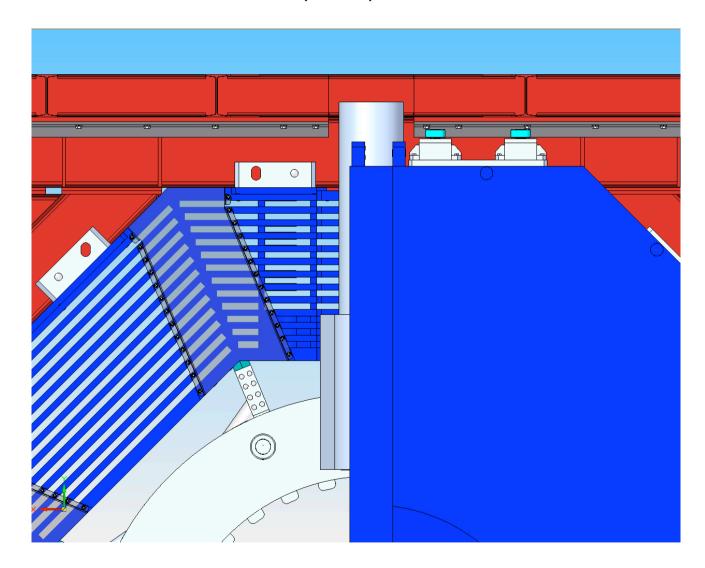






Solenoid front view

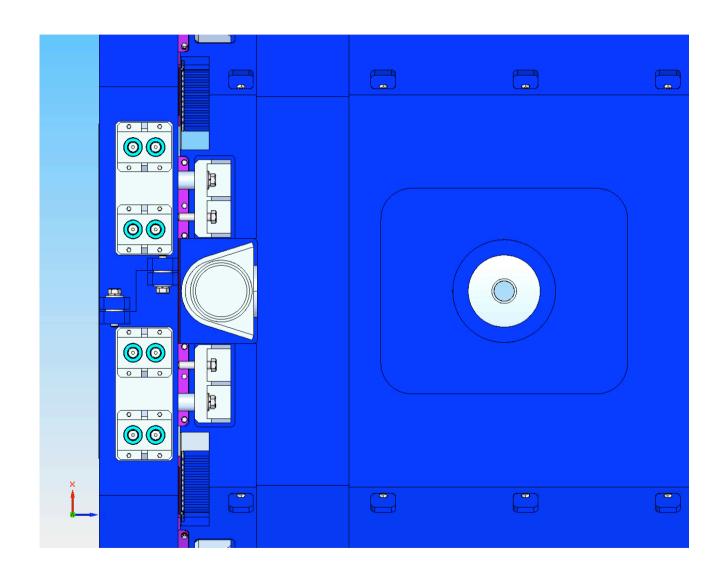






Solenoid top view (detail)

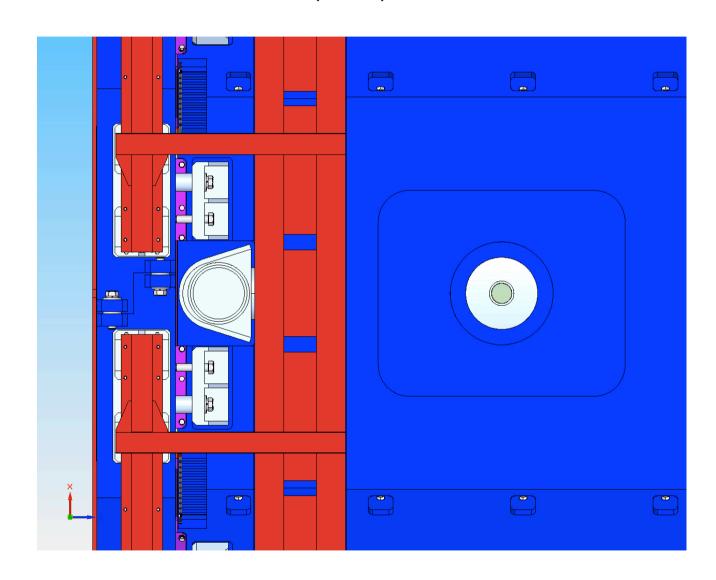






Solenoid top view

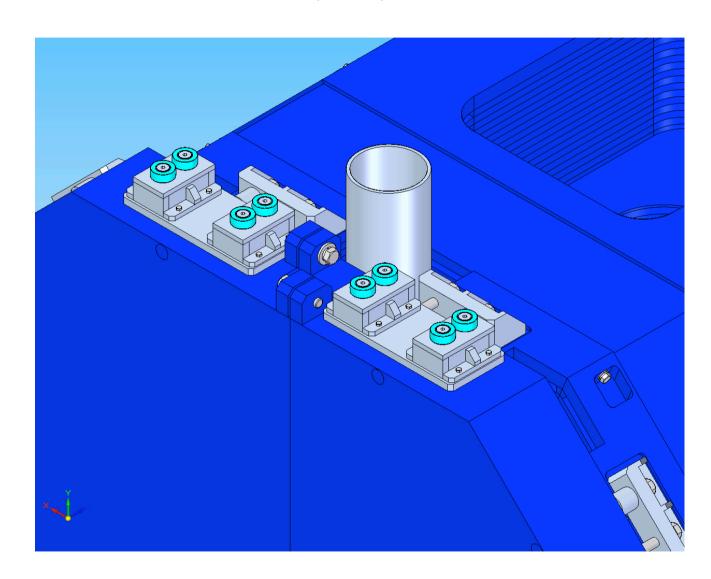






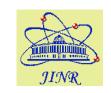
Yoke layout

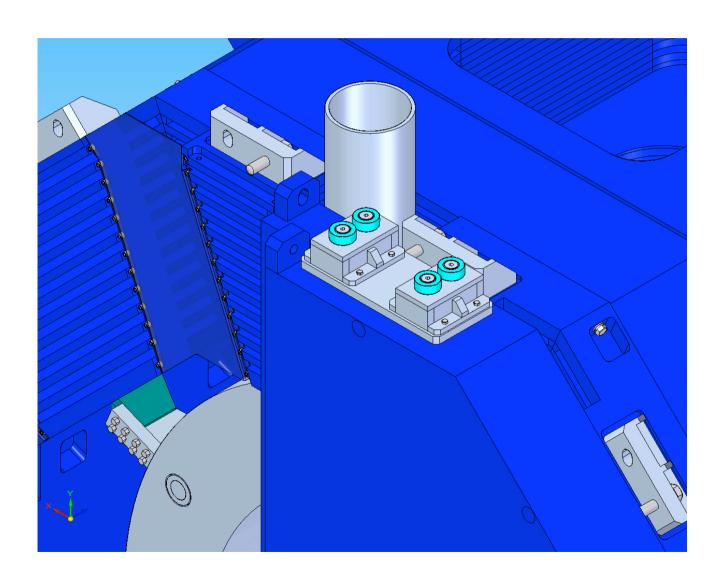






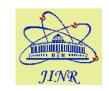
Yoke layout

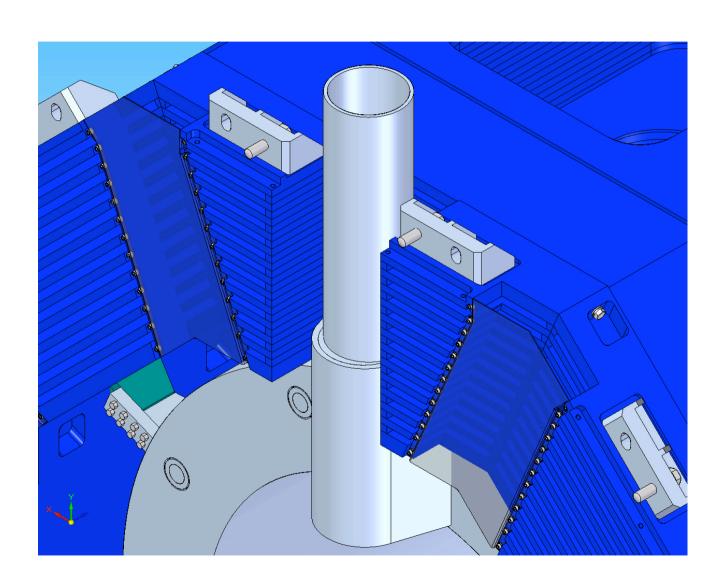






Yoke layout

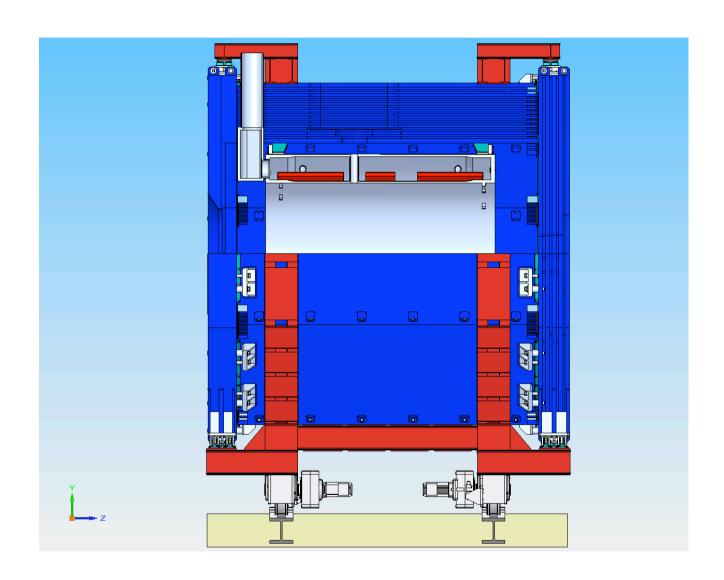






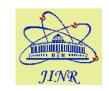
Solenoid side view

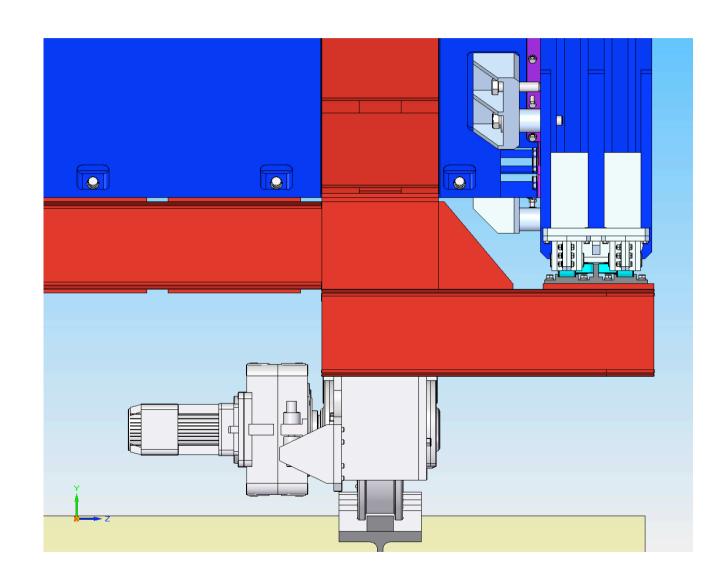






Solenoid side view

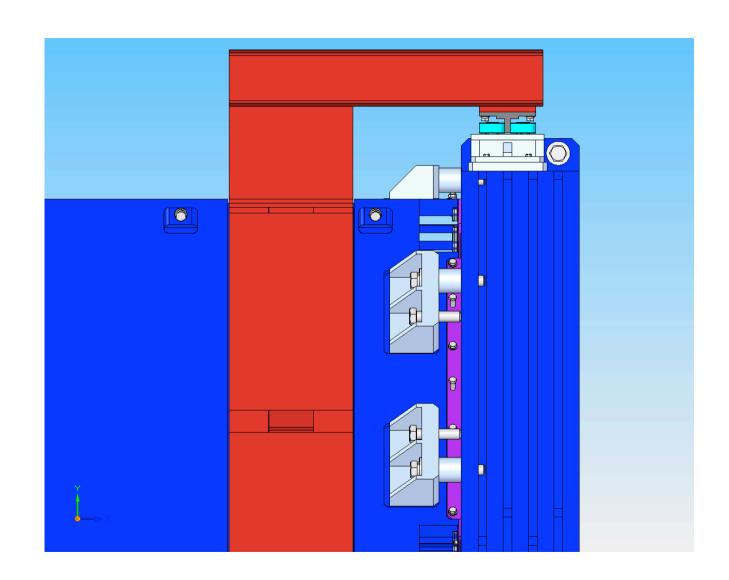






Solenoid side view







Summary



- The present design of the Flux Return Yoke meets the requirements of the magnetic field formation and the cryostat and detectors mounting
- The stresses in the Yoke are within the allowable limits
- Actual stresses and deformations in the Yoke and its Support System will depend on the design of the movable platform.
- The shape and dimensions of the recess in the lower beam of the Yoke are still not fixed; access to the target dump system should be foreseen
- The support system for the Barrel DIRC and its interference with the Yoke should be analyzed