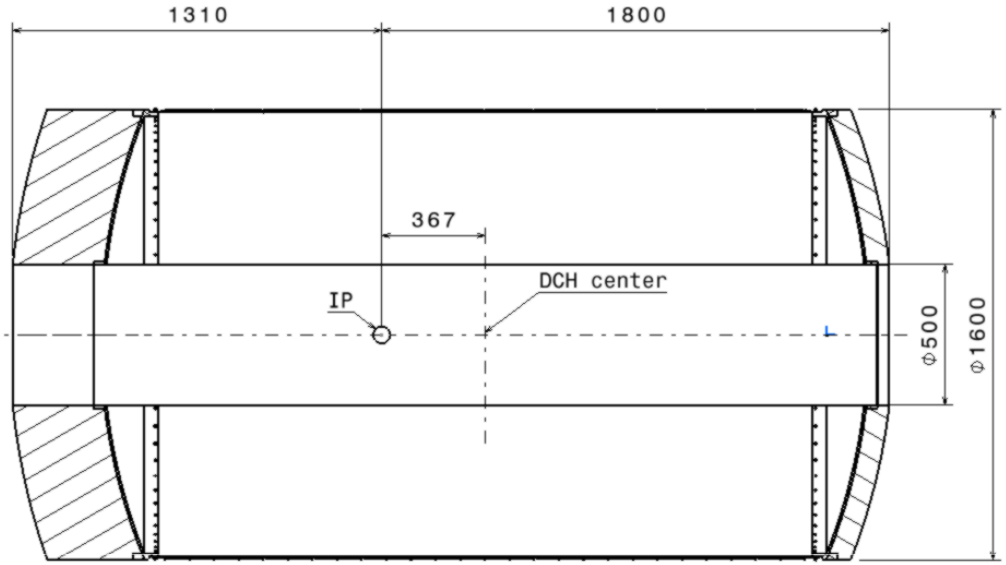
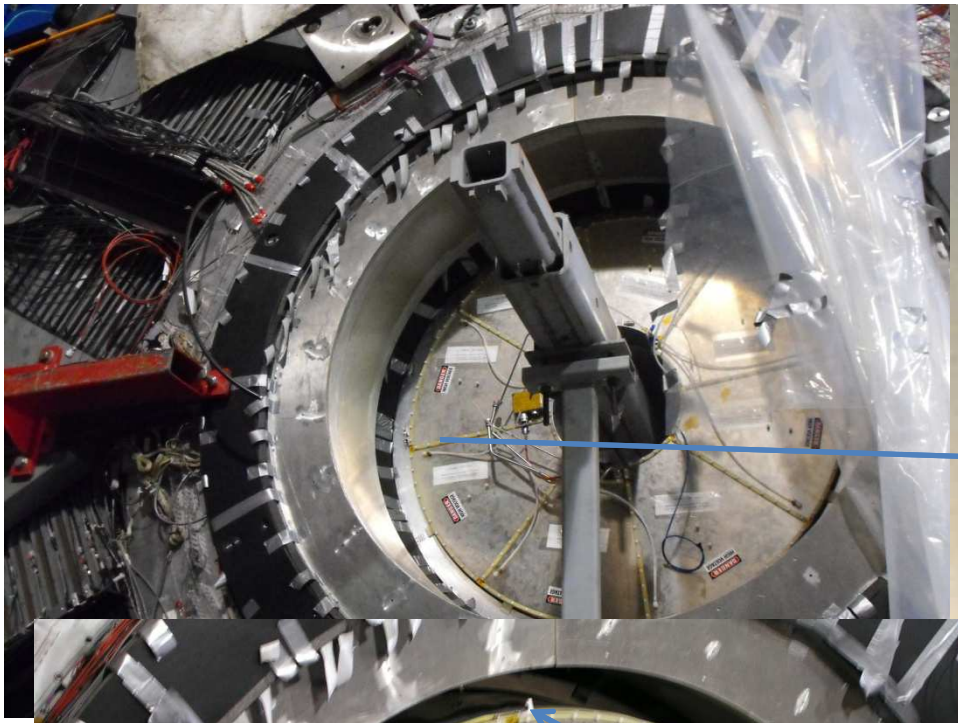
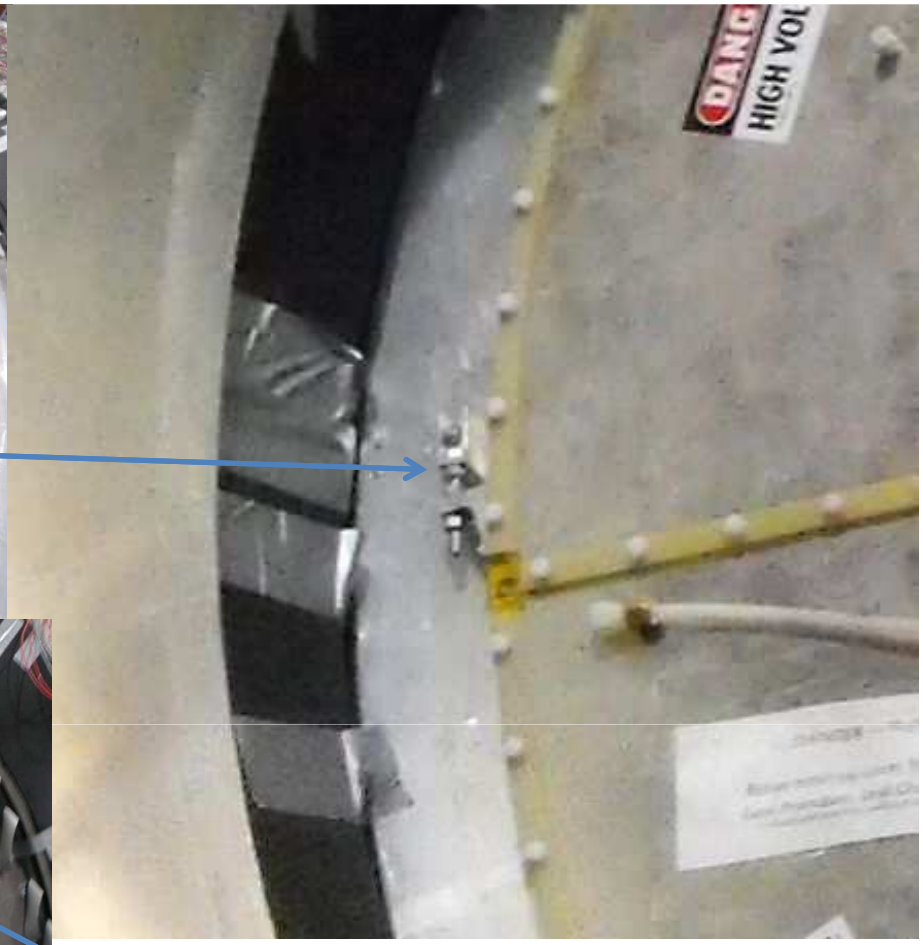
DCH Envelope



•Space available (to the best of our knowledge): -1310mm +1800mm .
(Considering space required for cables and 10mm cleareance from BEMC)
•It's already considered a 70mm for a forward PID and 150mm for a backward EMC
•DCH length can be changed according to space required for electronic, supports or shielding
•Outer diameter: 1600mm (15mm clearance from DIRC, to be verified)
•Inner diameter: 500mm (5mm cleareance from tungsten shield)



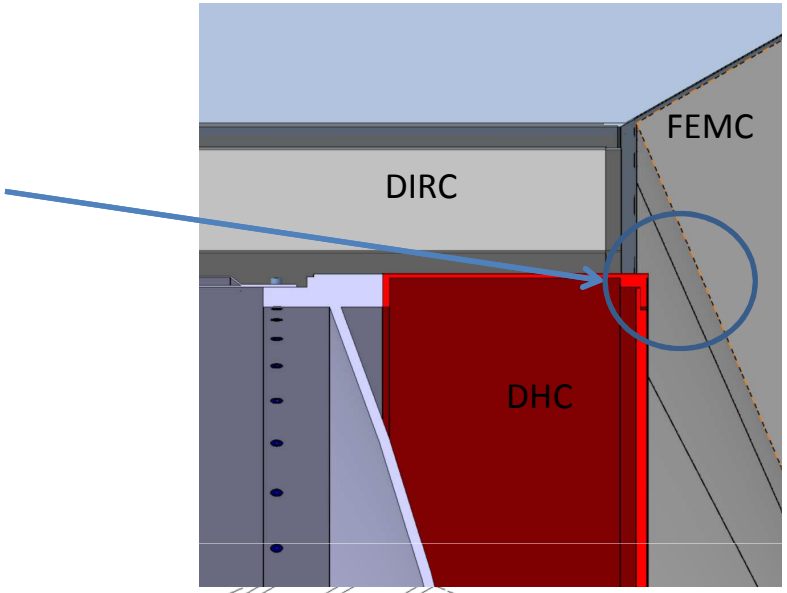


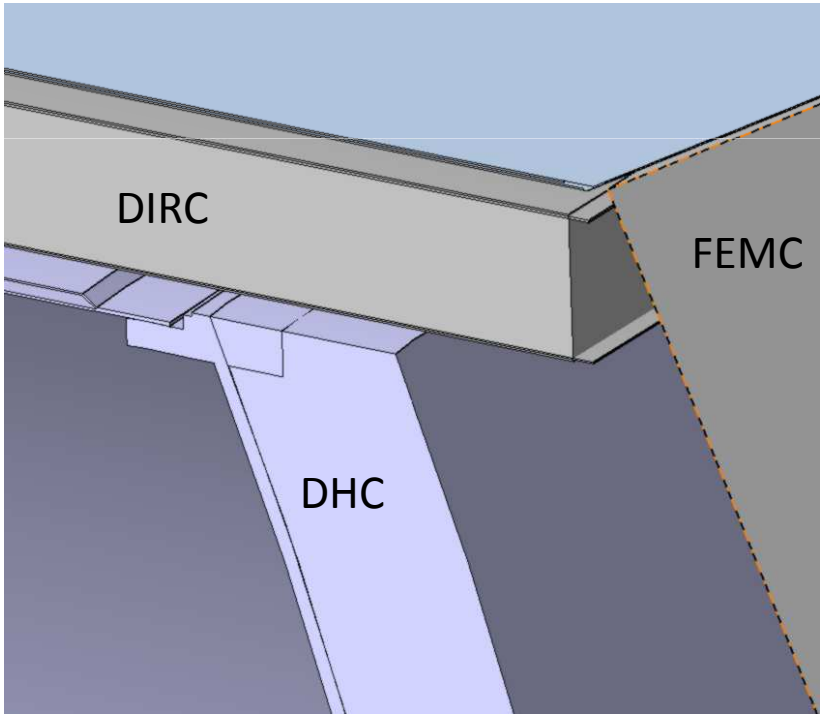
BABAr FWD supports

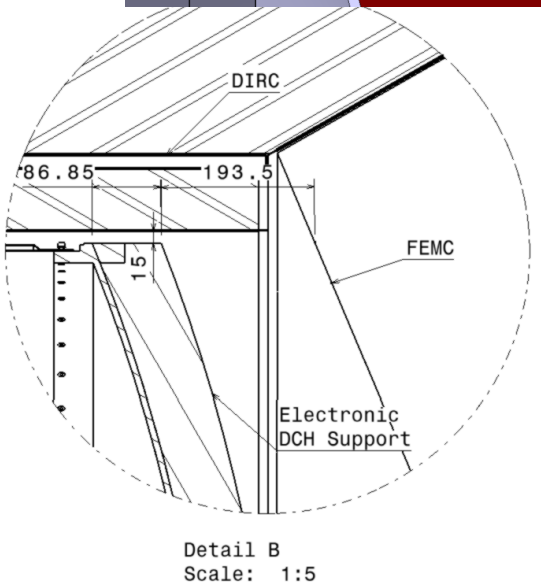
No info on Babar BWD supports

FWD DCH Supports

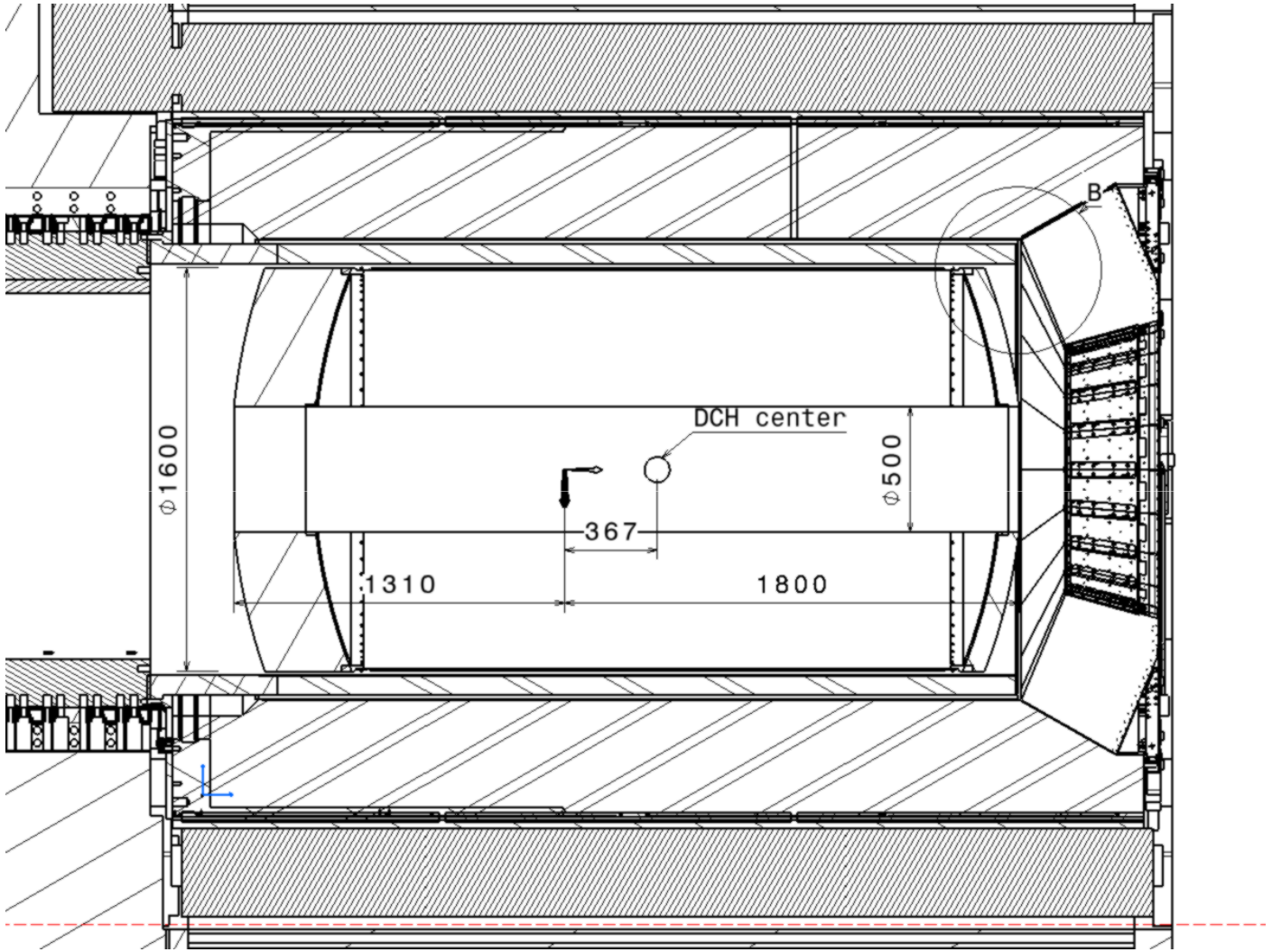
FLAT electronic support is not acceptable for FPID







DCH – DIRC interface



We need to know, where the DCH can be attached (FWD and BWD)

On-detector electronics:

Backward (cables)
- Ø2mm x n°10000
- Ø2mm x n°768 LV

On outer rim of the chamber

Forward (cables)
-Ø15mm x n°20 HV

On inner rim of the chamber

Off-detector electronics

Two solutions still under study:
-32 crates (6U crate + 2U fans +1U heat exchanger) – 16 board/crate (19'')
-9 crates (6U crate + 2U fans +1U heat exchanger) – 16 board/crate (19'')
And 2 HV crates (19'')
Cables length < 10m
All crates with polyethylene neutron shielding
Need to be placed on top of the detector
BWD Water cooling