End-cap Design Proposal

Fine (100mm) segmentation in barrel end-cap overlap region not realy needed.

Problems:

- Mechanical strength of thin plates
- Installation and access of endcap detectors in case of radial rips. In particular for bottom detectors

coil

End-cap Design Proposal



Slightly longer barrel

- Better mechanical design of end-cap
- Better installation and access of end-cap detectors in case of radial rips
- More difficult access when end-cap open. To be looked into.

End-cap Design Proposal























iron thickness 2.16m

Iron thickness of 2.3m

Compromise on B = 3.5T

-> stray field should be fine