❑ **Geometry**

- CyMBaL – Niv/Matt (temp) / additional volunteer needed

- μRWELL-BOT – Matt (temp)/ additional volunteer needed

- μRWELL-ECT -- Mariangela

❑ **Digitization**

- Incorporate test beam data to smear charge to get appropriate space point resolution -- Babu
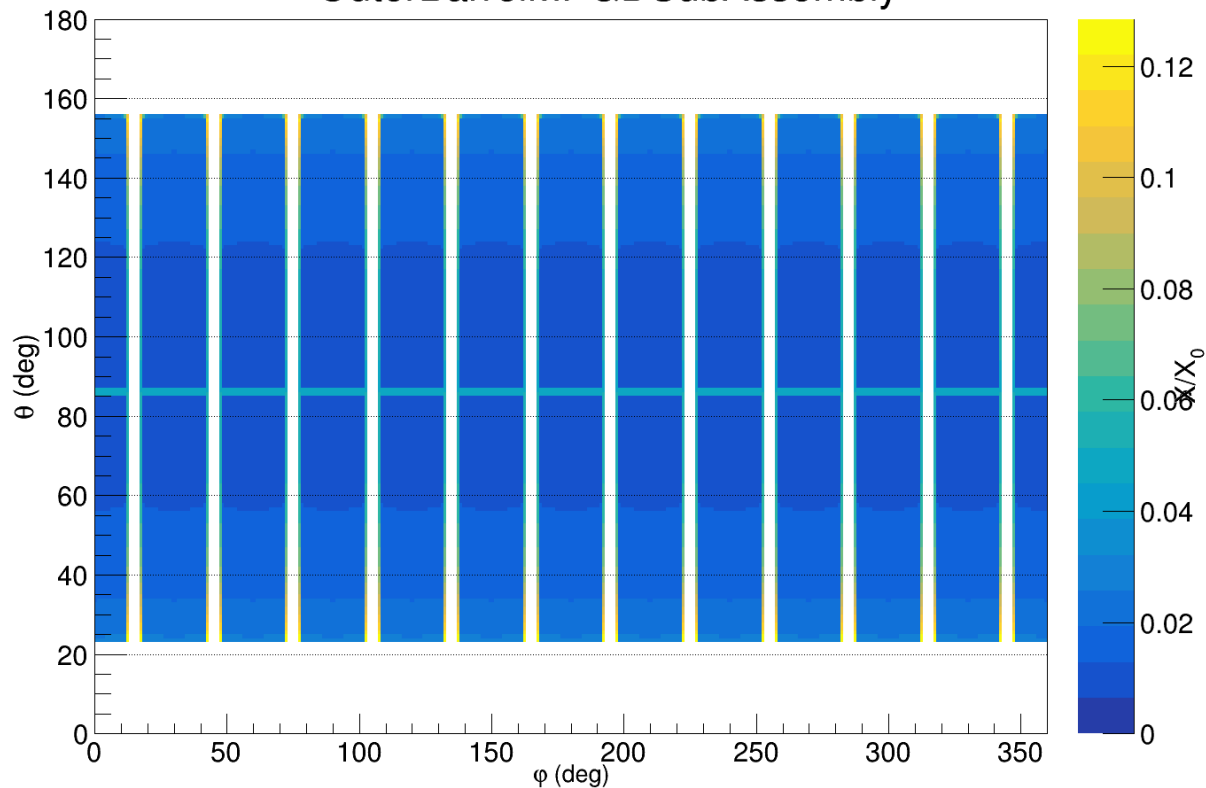
❑ **Strip Readout**

- Implement strip segmentation on MPGD detectors

- Digitize the 1D hits to produce two 1D measurements→ should be able to use digitization implementation currently being worked on

- Form 2D measurement from the two 1D measurements → Needed for track fitting/reco
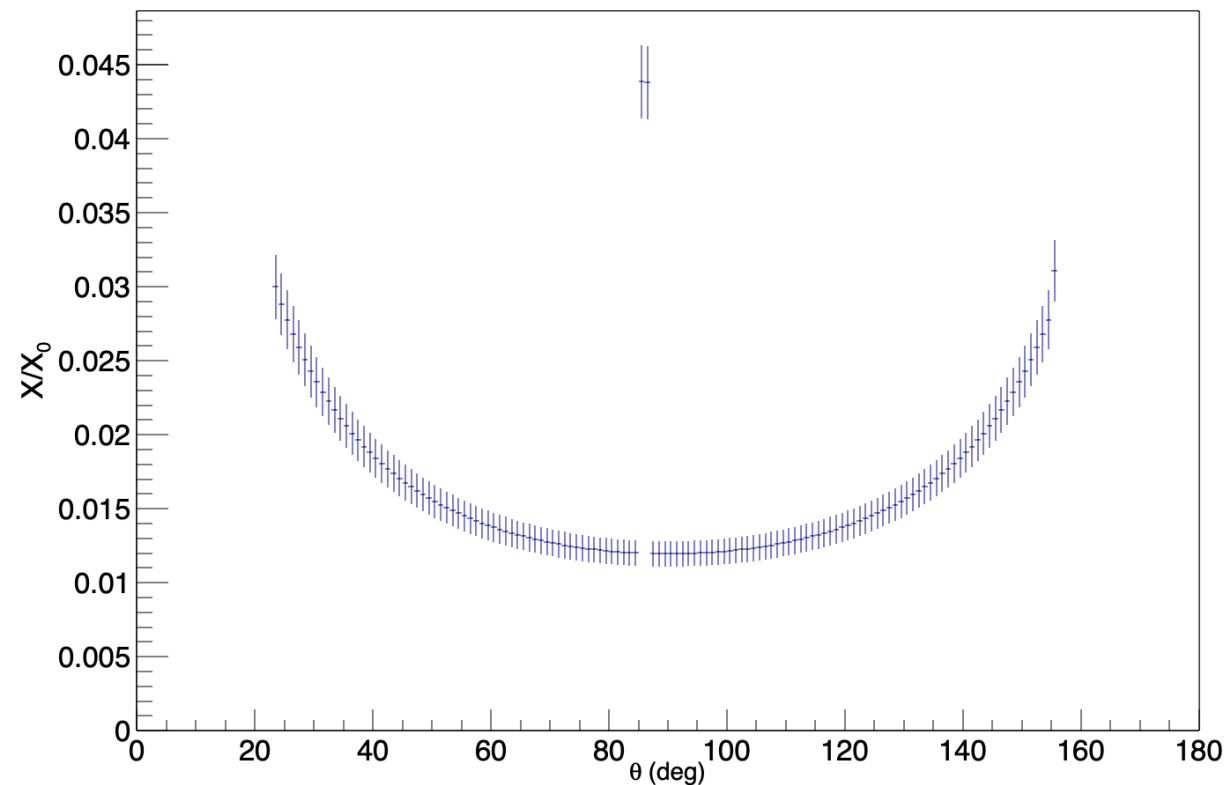
34 cm
169.5 cm
31 cm
172.5 cm
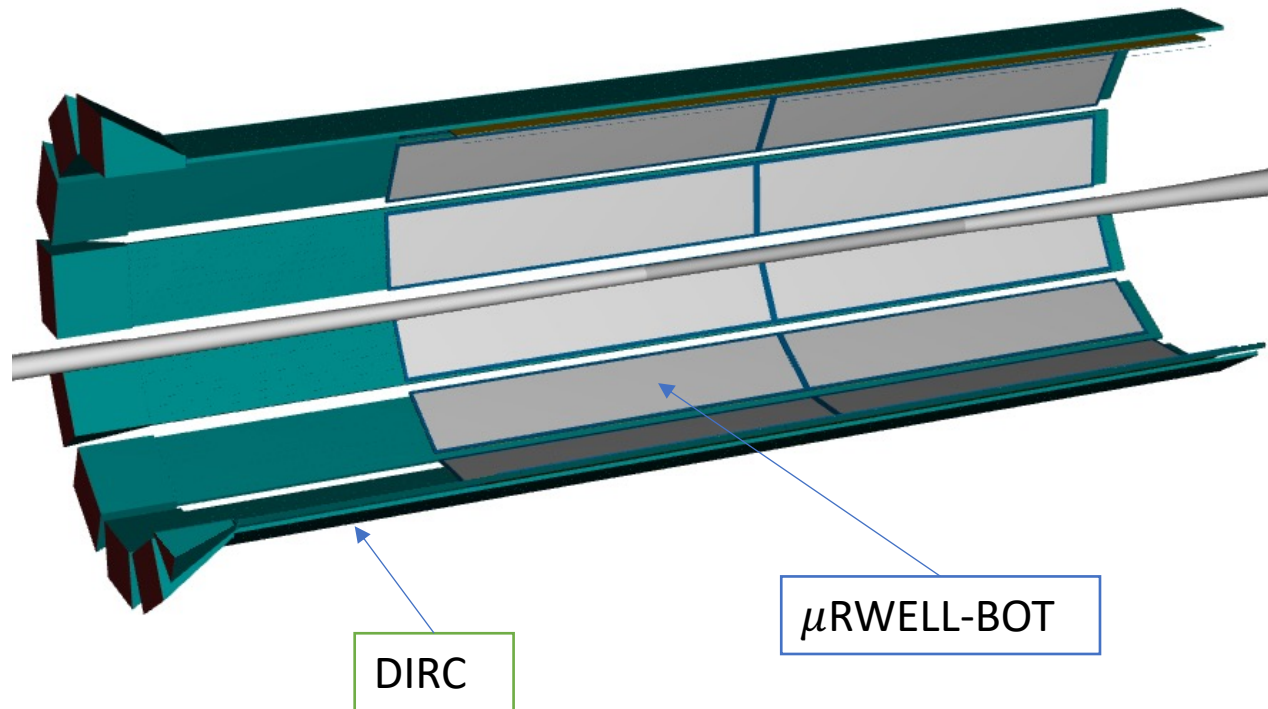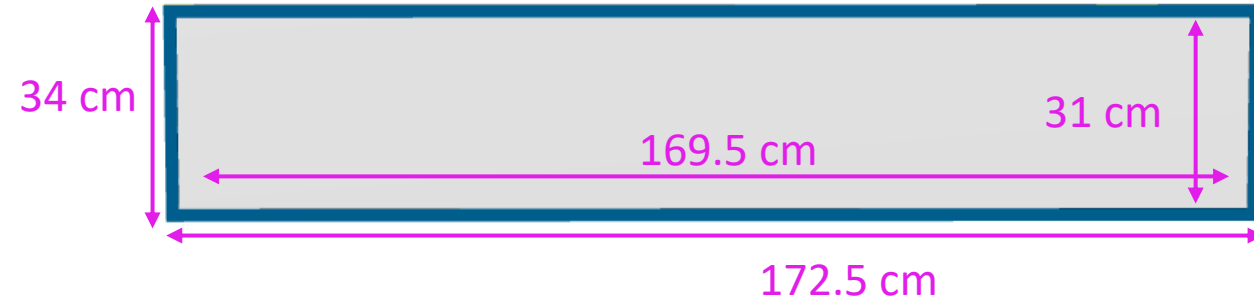
- ❑ Planar layers based on μRWELL technology
- ❑ Two panels needed for full length
- ❑ Panels arranged around azimuth
- ❑ Frame width =15 mm, thickness = 7 mm
- ❑ Barrel:
  - ➢ L = 339 cm $(-164.5\ cm \leq Z \leq 174.5\ cm)$
  - ➢ R = 72.5 cm

μRWELL-BOT

DIRC

Geometry: μRWELL-BOT Update

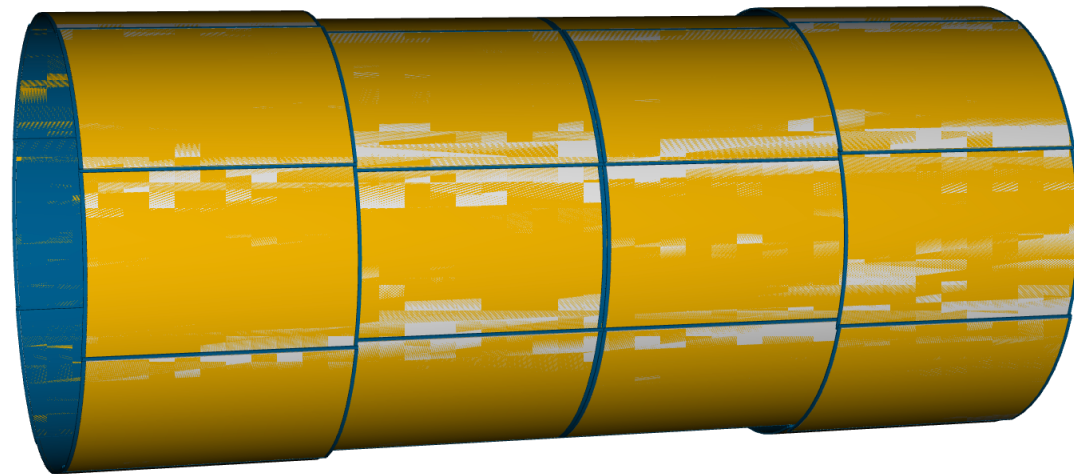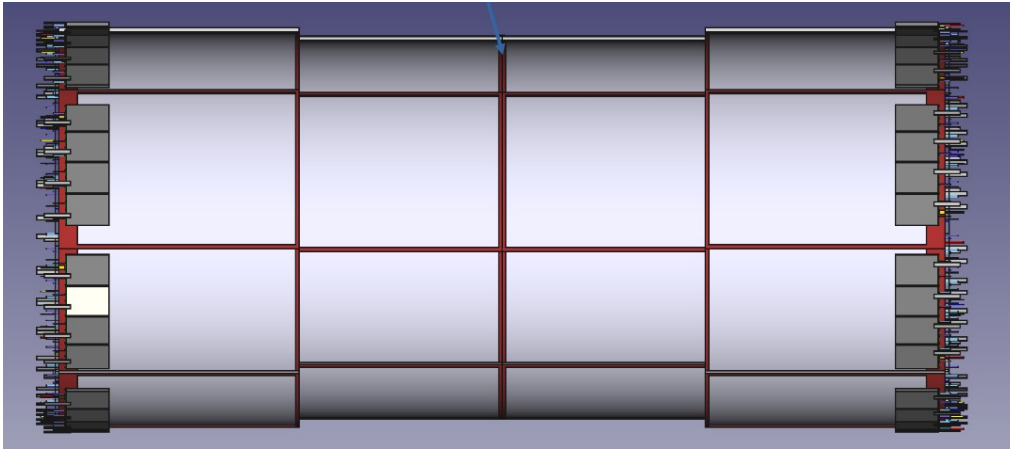❑ Is this material budget still reasonable at this stage?

OuterBarrelMPGDSubAssembly

Geometry: CyMBaL Update

Details: CyMBal Design

❑ Initial implementation started by Niv

❑ Debugged code and now passes initial DD4hep and

ACTS geometry checks using macros

  ▪ checkOverlaps (for DD4hep geo.)

  ▪ scripts/test_ACTS.cxx (for ACTS geo)

❑ Investigating segfault triggered by EICrecon during

reconstruction