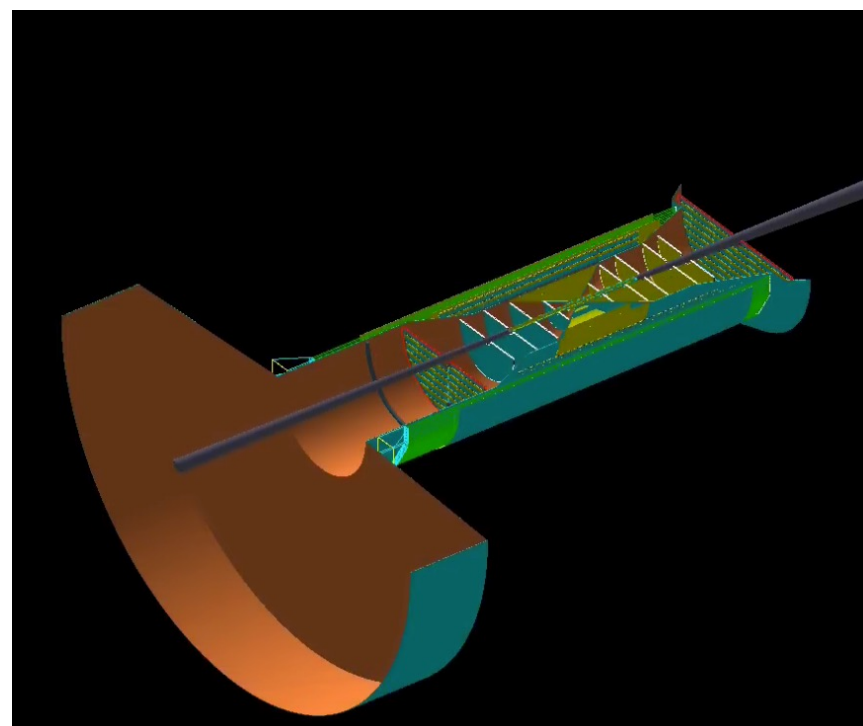
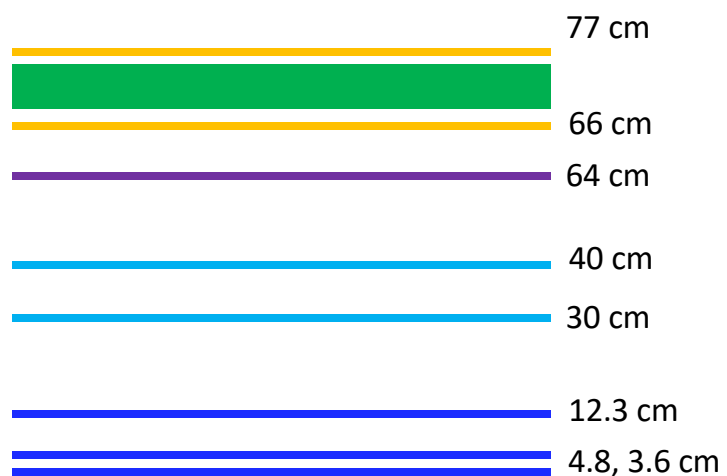


Detector Configuration

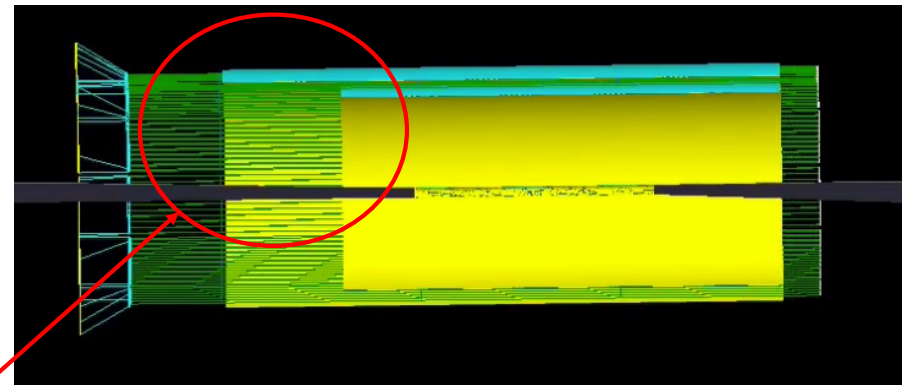
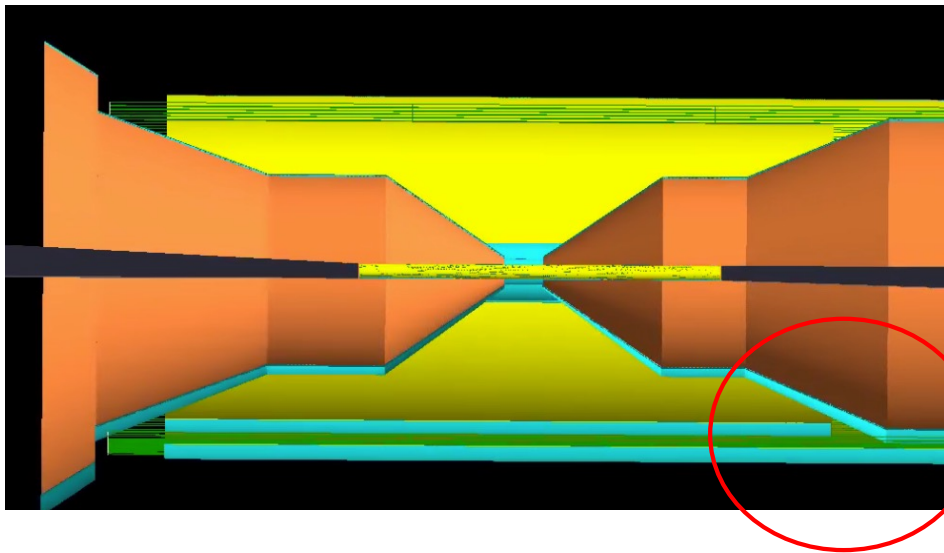
➤ Detector Configuration

- Silicon vertex
- Silicon sagitta
- AC-LGAD
- MPGD
- DIRC



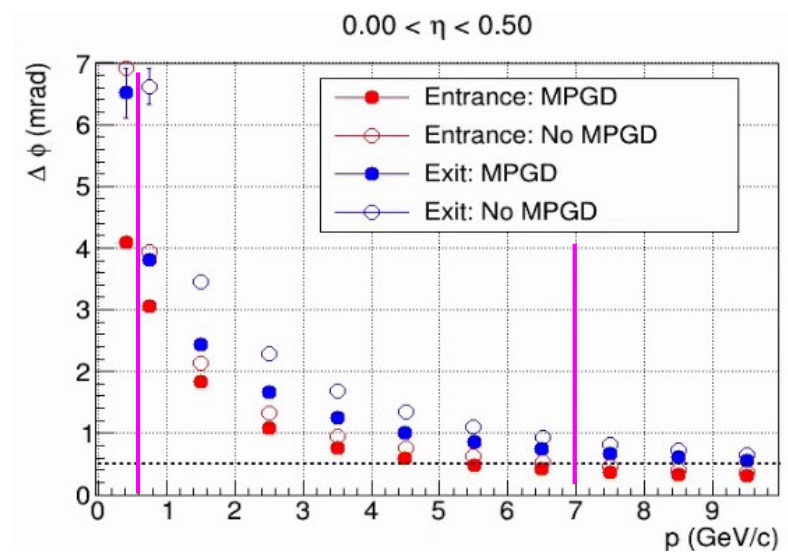
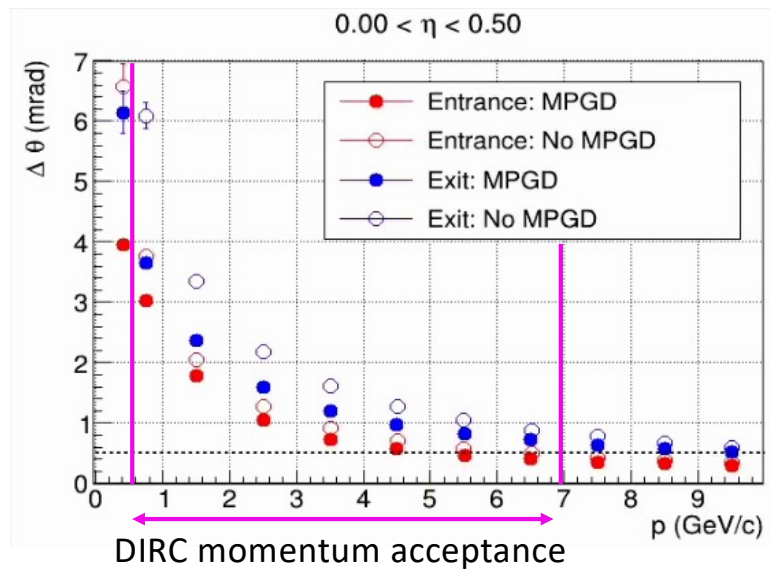
Detector Configuration: Issues

- Making inner MPGD layer same length as outer leads to overlap with services
 - Inner layer made shorter: $-125 \text{ cm} < z < 145 \text{ cm}$
 - Outer layer (from ECCE): $-197 \text{ cm} < z < 145 \text{ cm}$



Angular Resolution at DIRC

- Project the reconstructed track to
 - Entrance ($r = 66$ cm)
 - Exit ($r = 77$ cm)
- Compare projected reconstructed track to true hit
- MPGDs: $\sigma_{r\phi} = \sigma_z = 55 \mu\text{m}$, 1% X0
- No MPGDs: $\sigma_{r\phi} = \sigma_z = 999 \text{ cm}$, 0.001% X0



Angular Resolution at DIRC

- Improvement by having MPGDs implemented

