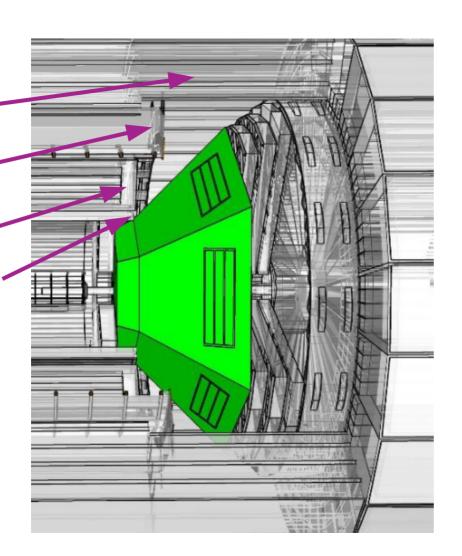
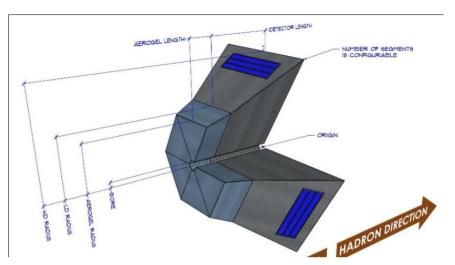
HCAL

Solenoid

ECAL

DIRC

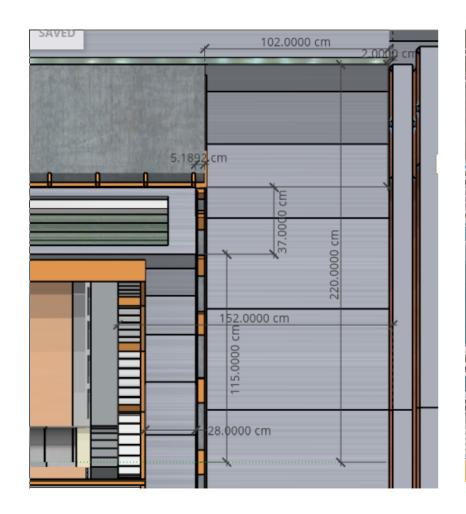


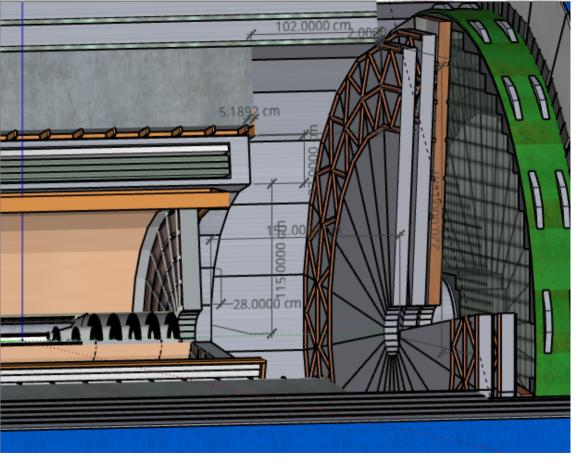


conic dRICh envelope, Menagerie 3T, DIRC LD readout

Overall Length	145 cm
Aerogel Length	35 cm
Aerogel Radius	100 cm
Detector Length	110 cm
Bore	10 cm
HD Radius	220 cm
LD Radius	125 cm
Offset	290 cm in Hadron Direction
Segment Count	6
Total Volume	11.94 m³

dRICh space, Menagerie 3T, DIRC LD readout



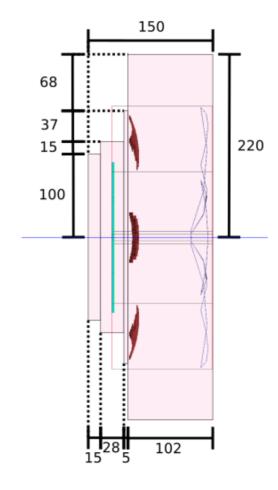


[units=cm]

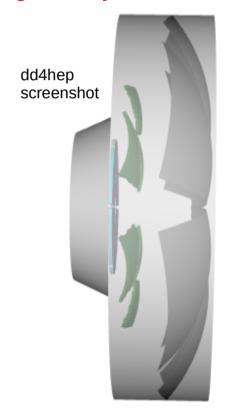
210.5 120 161

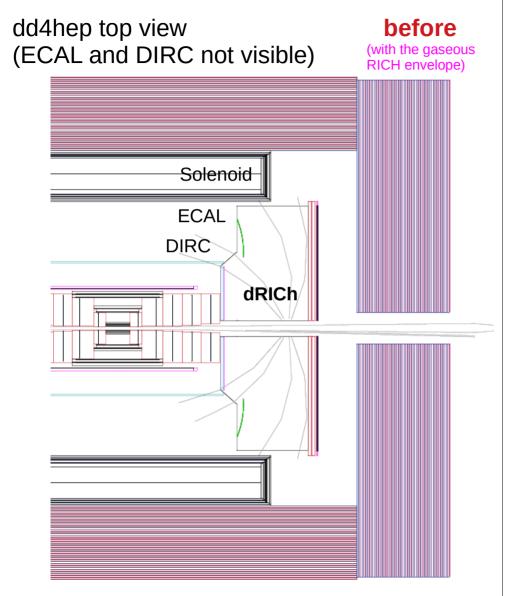
Fun4all

available dRICh space, Menagerie 3T DIRC LD readout



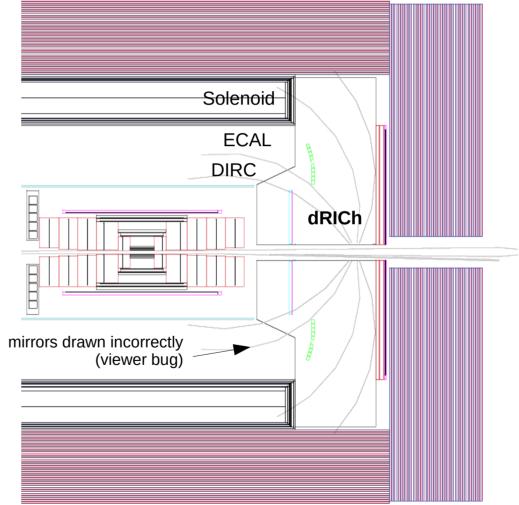
- <u>First Step</u>: F4A geometry *rescaled* to fit in available space (not optimal!!)
- Next step: Re-optimize geometry within this space





after updating envelope geometry

as close as possible to menagerie (sketchup) schematic



Material Properties work in progress, stuck on several problems

- material property tables <u>dumped</u> from fun4all port → athena.xml
- fun4all port contains all the formulas for generating these tables, and will be the central place to store these data; athena.xml will only contain the resulting dumps

This is a dRICh ring from the gas volume, but there are **several** issues:

- pion thrown in xz plane, but ring center is also offset by y
- far too few optical photons
- aerogel volume does not radiate (but the material does)
- desperate need for 3D event visualization
 - (I'm running out of ideas for debugging these issues)

