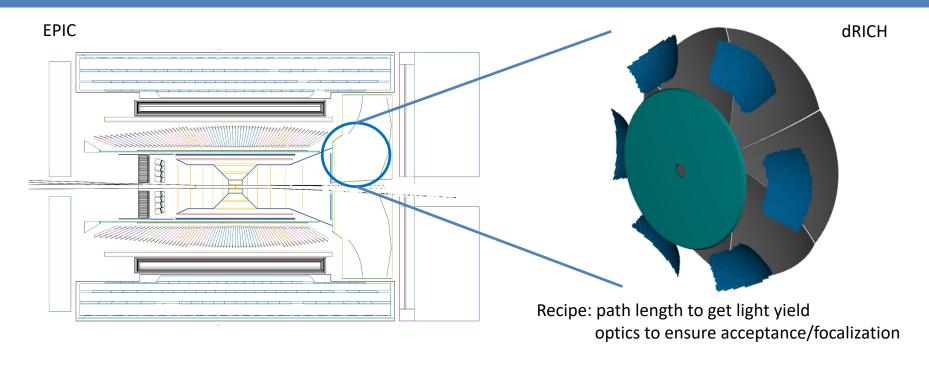
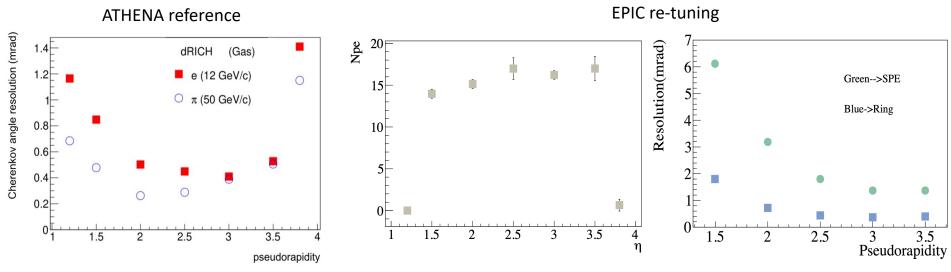
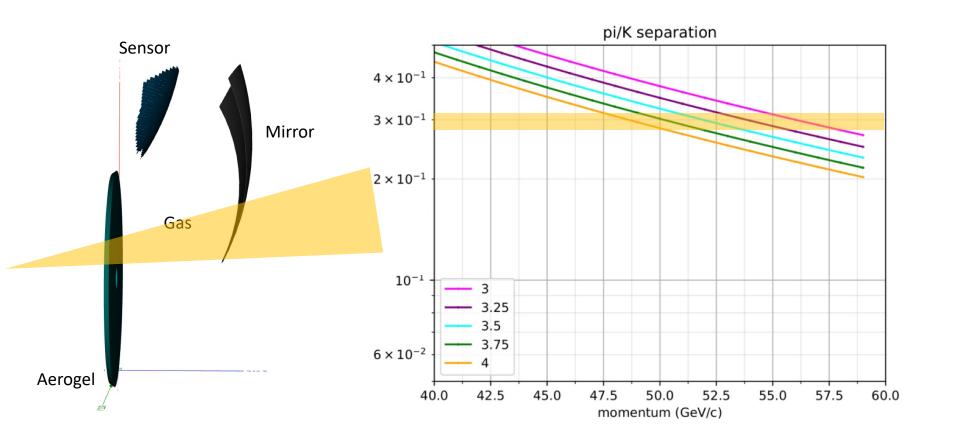
dRICH





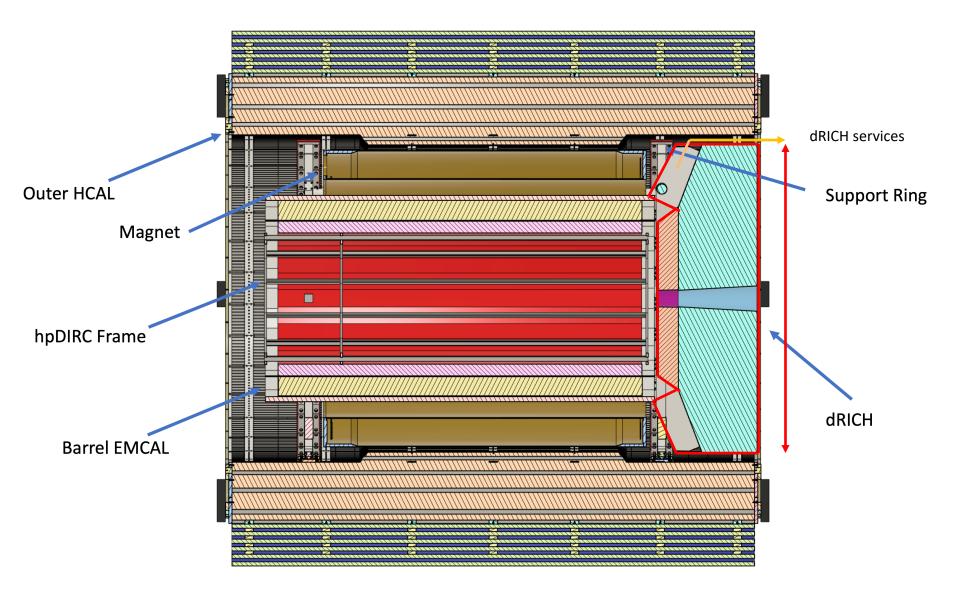
dRICH Performance

Preliminary reshaping provides 0.3-0.35 mrad resolution in the 2.5-3.5 rapidity range This corresponds to > 3σ separation at 50 GeV/c YR \checkmark



Real optimization depends on the integration constraints

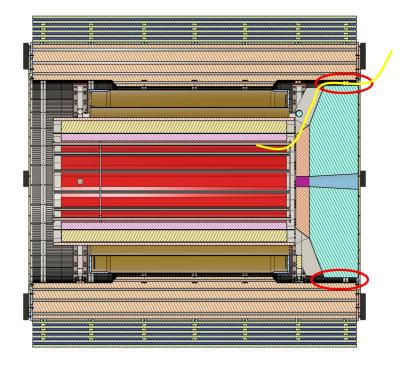
dRICH Integration



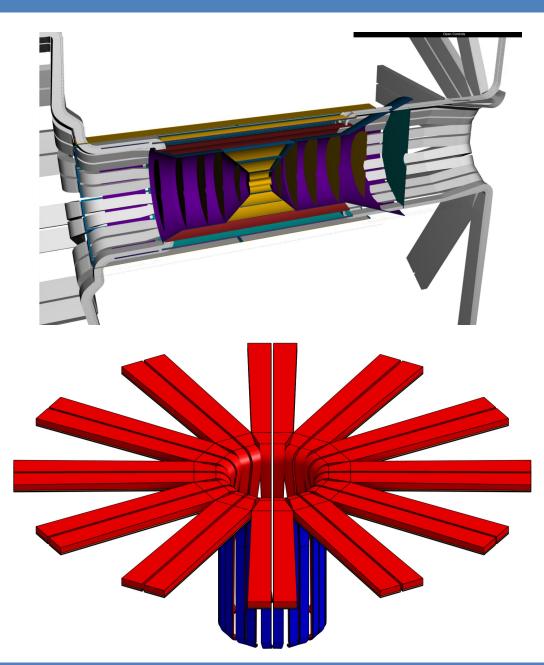
dRICH services from top of detector box and maximum radius reduction seem doable

Services

Forward services for inner detectors



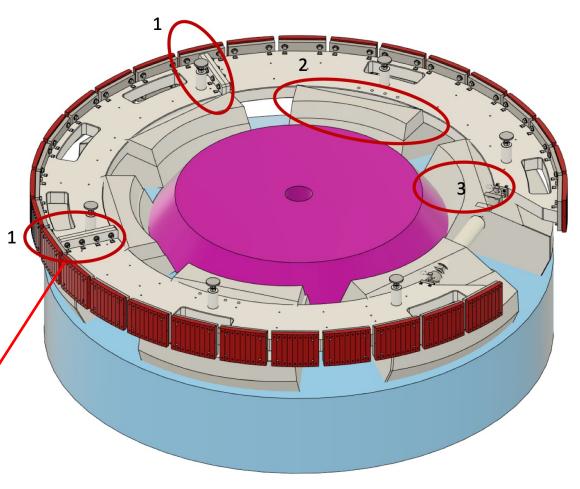
Group into 6 bundles to stay in between dRICH detector boxes?



dRICH Interference Points

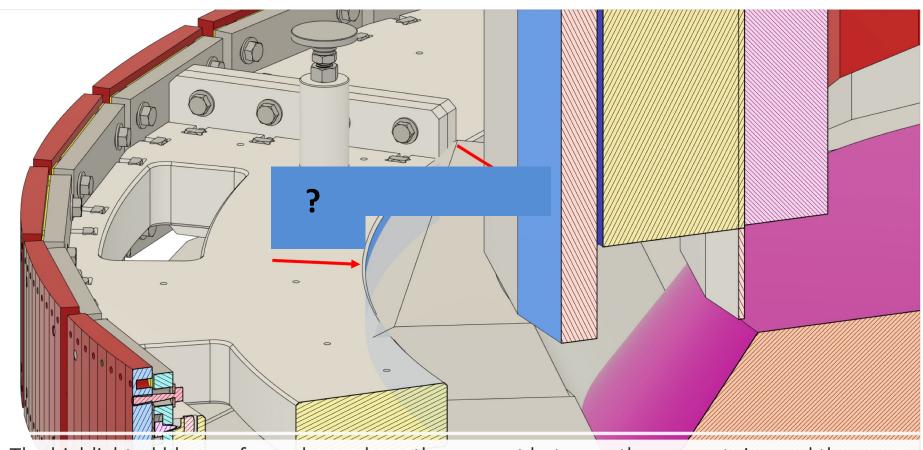
The actuator will not be in place at dRICH installation

The inner radius of the support ring is interfering with the dRICH detector boxes



1 Where the support ring bolts together, there is a flange that protrudes into the boxes. There are two of these flanges on the support ring.

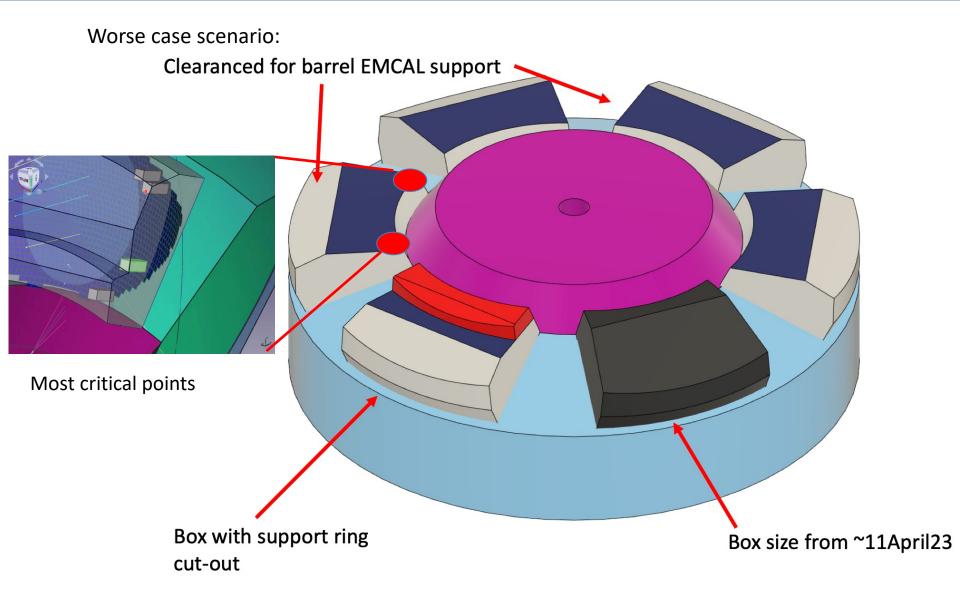
Barrel EMCAL Support



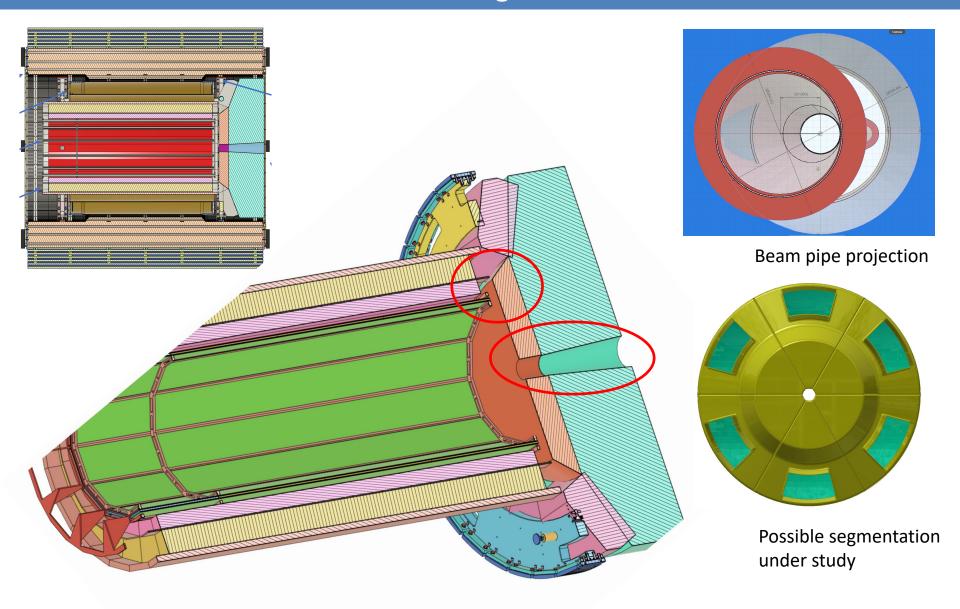
The highlighted blue surfaces show where the support between the support ring and the ~ 53 T Barrel EMCAL will likely end up



dRICH Detector Boxes



dRICH Integration



DIRC and FTOF material need to be accounted for. Beam pipe impact should be minimized.

dRICH Integration

The interferences ballpark is of the order of ~10 cm

A few cm forward shift of the dRICH is an interesting idea

dRICH geometry can be accommodated at the price of performance (e.g. acceptance)

Effective exchange between DSS and Project Technical Team is essential

The recent joit dRICH – EIC Technical Team workshop is an excellent example

A public EPIC 3D model is instrumental to engage DSS technical capability

Read only mode?