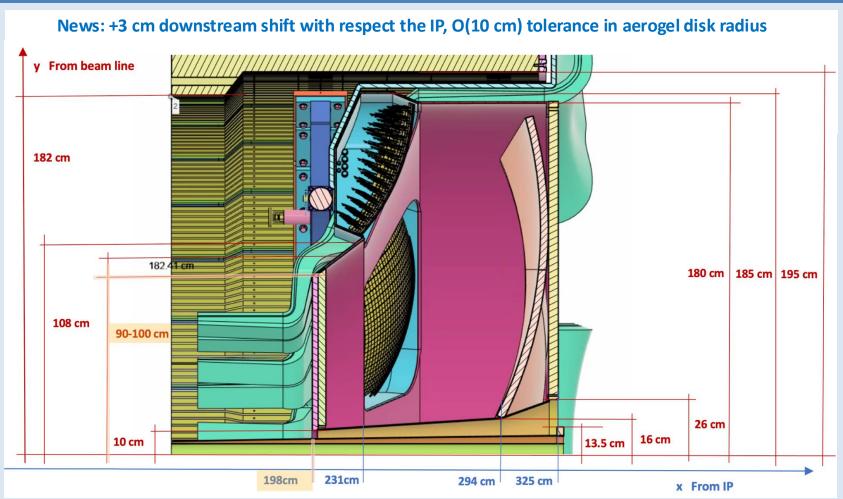
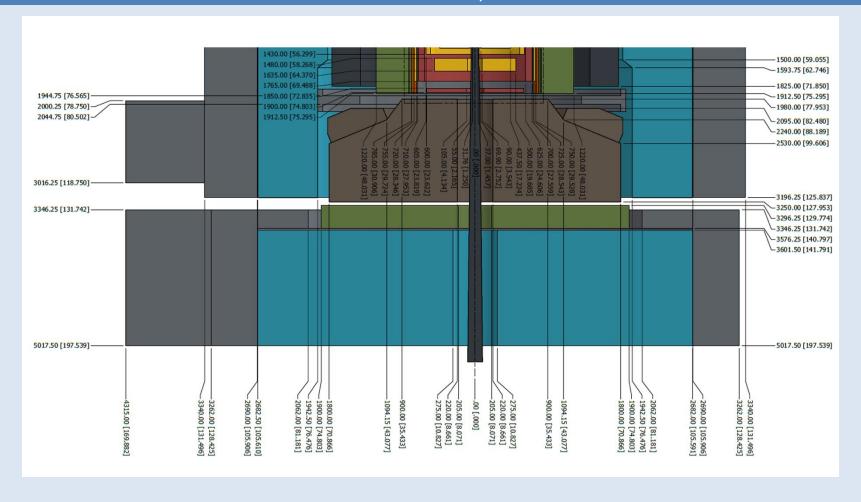
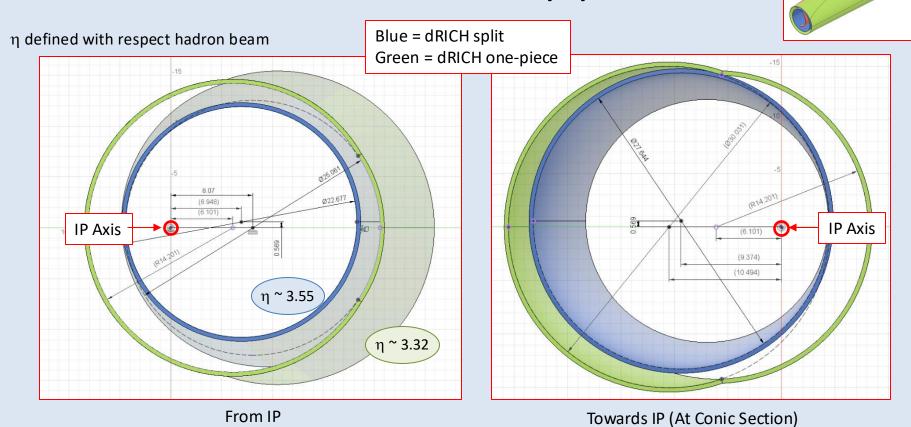
dRICH Envelope



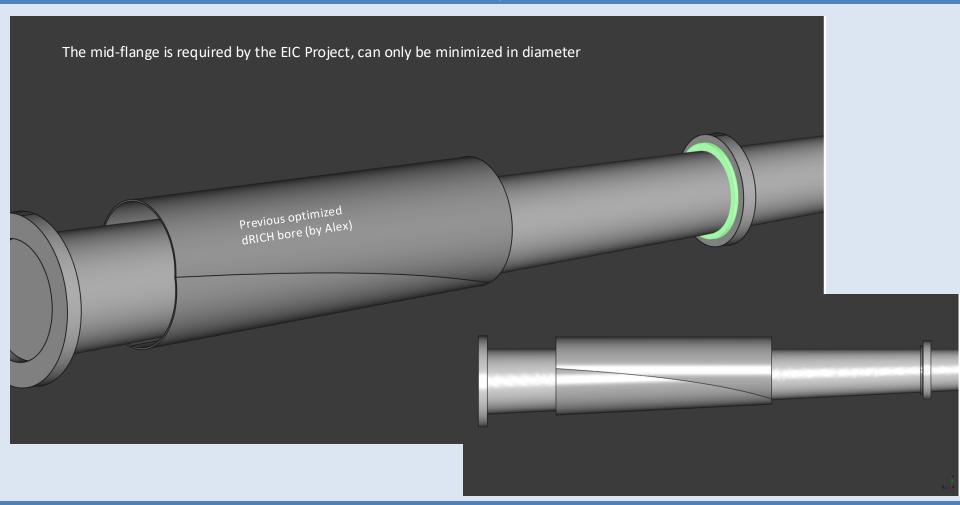
dRICH Envelope



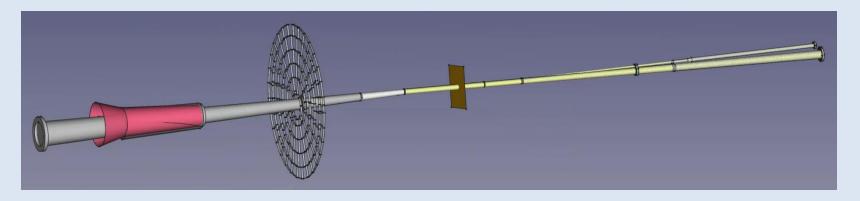
Clearance to Beampipe: 1cm



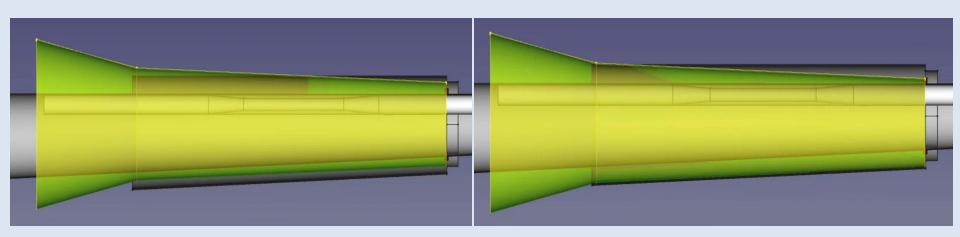
Beam Pipe



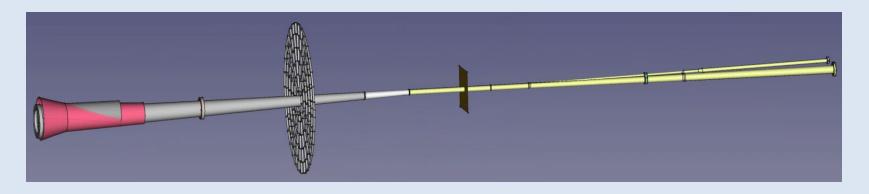
Just Outside ePIC

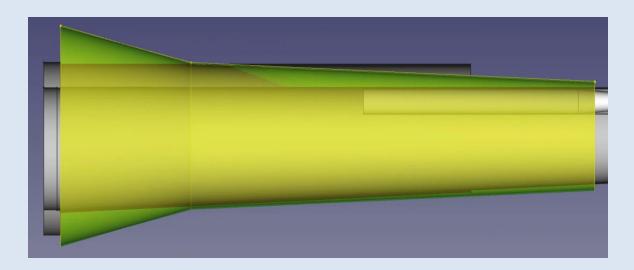


The minimum dRICH bore diameter is dictated by the mid-flange, no difference with or without splitting Outside ePIC, dRICH gains and needs left-right translation degrees of freedom

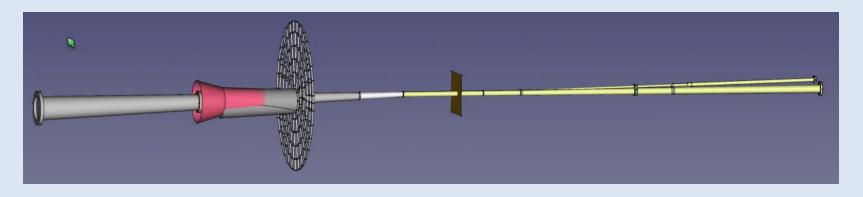


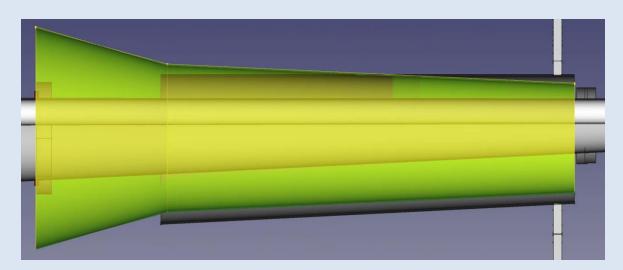
Maintenance Position



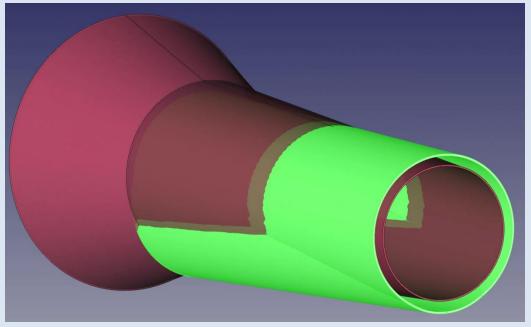


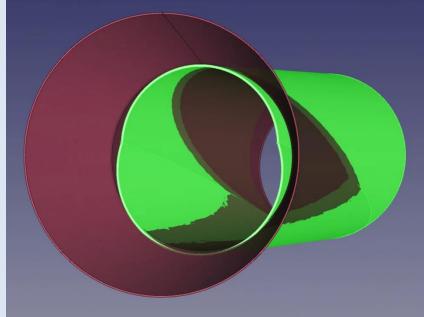
Working Position



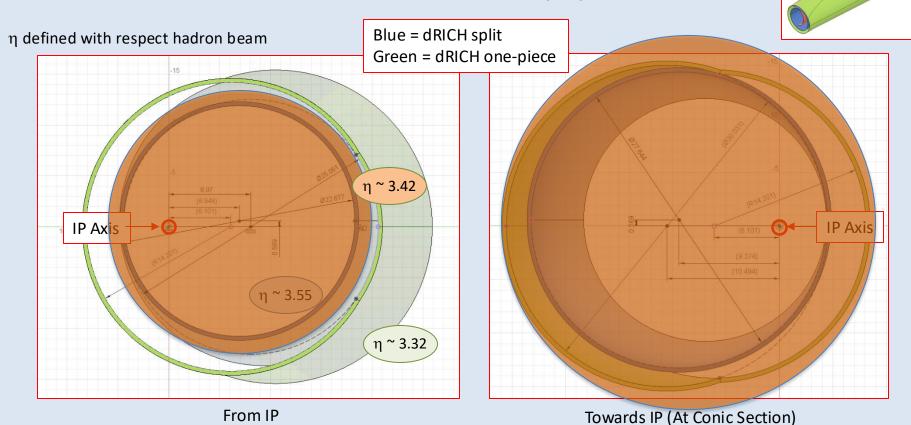


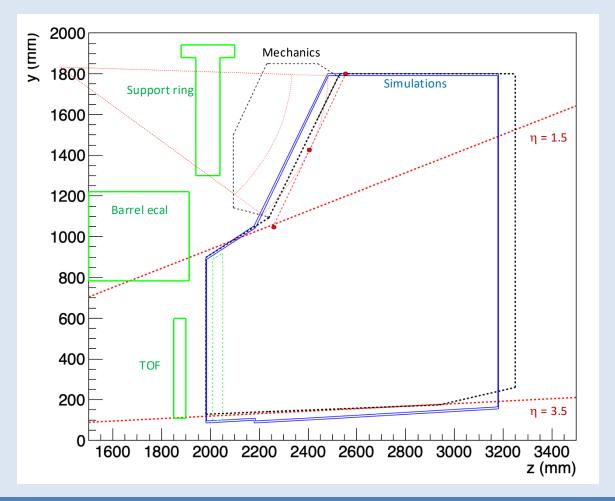
dRICH Bore





Clearance to Beampipe: 1cm





Conclusions

Work ongoing to finalize the geometry bridging mechanics, simulations & integration

dRICH splitting:

- no benefit in pseudo-rapidity acceptance with the mid-flange in position
- benefits for mechanics stability only with structural septum (and significant loss in acceptance)
- complicate removal operation with all services detachment
- may remain a backup solution in case of unexpected issues

dRICH detecor box:

- requires optimization accounting for mechanical structure
- tight problem because of quartz window, PDUs and services space needs (e.g. VTRX+ pigtail quandary)
- to be revisited with updated ePIC model

Goal: release a new geometry (or a couple of options) for performance validation