

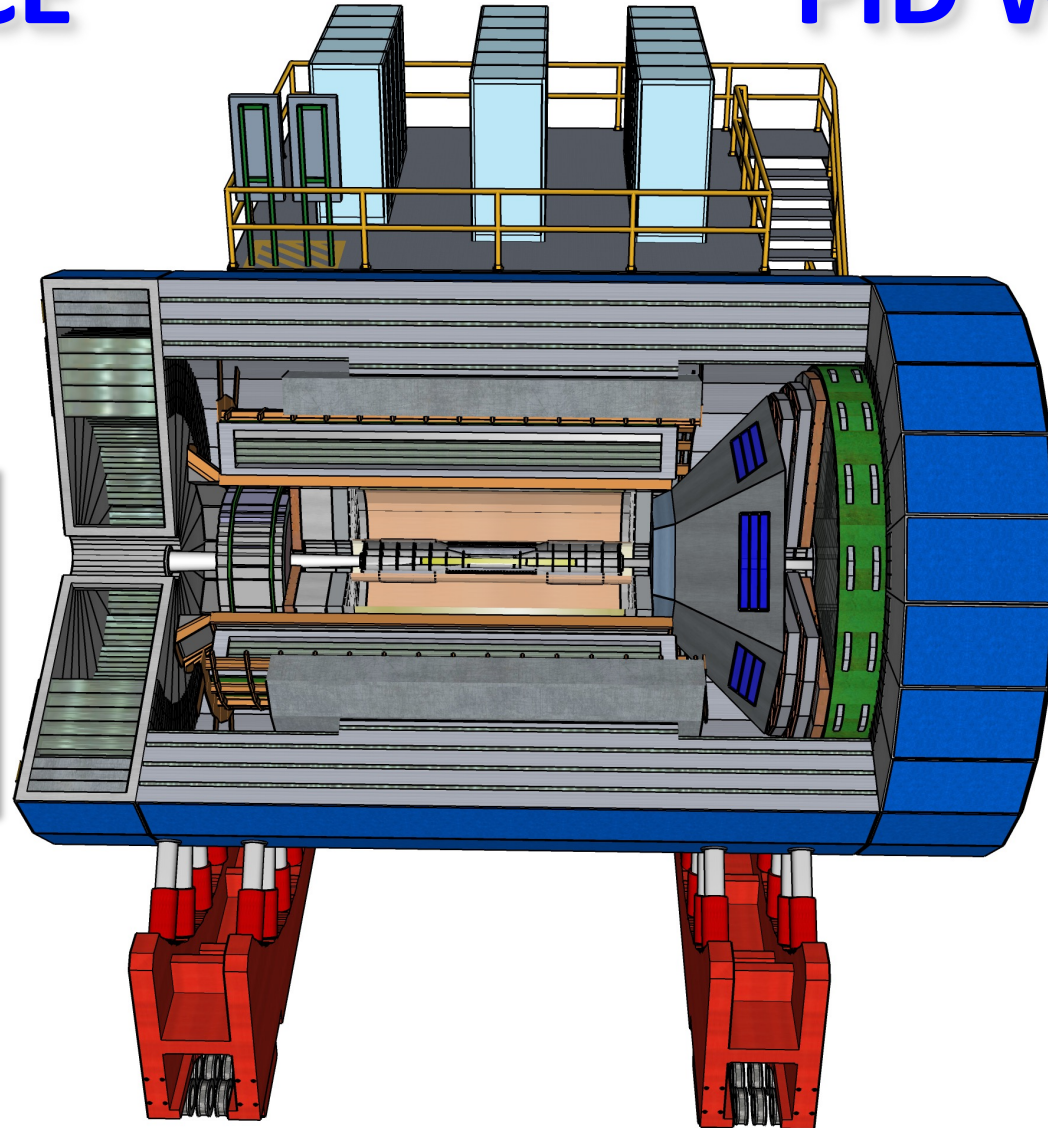
PID@ECCE

PID WG MEETING

Greg Kalicy



Xiaochun He

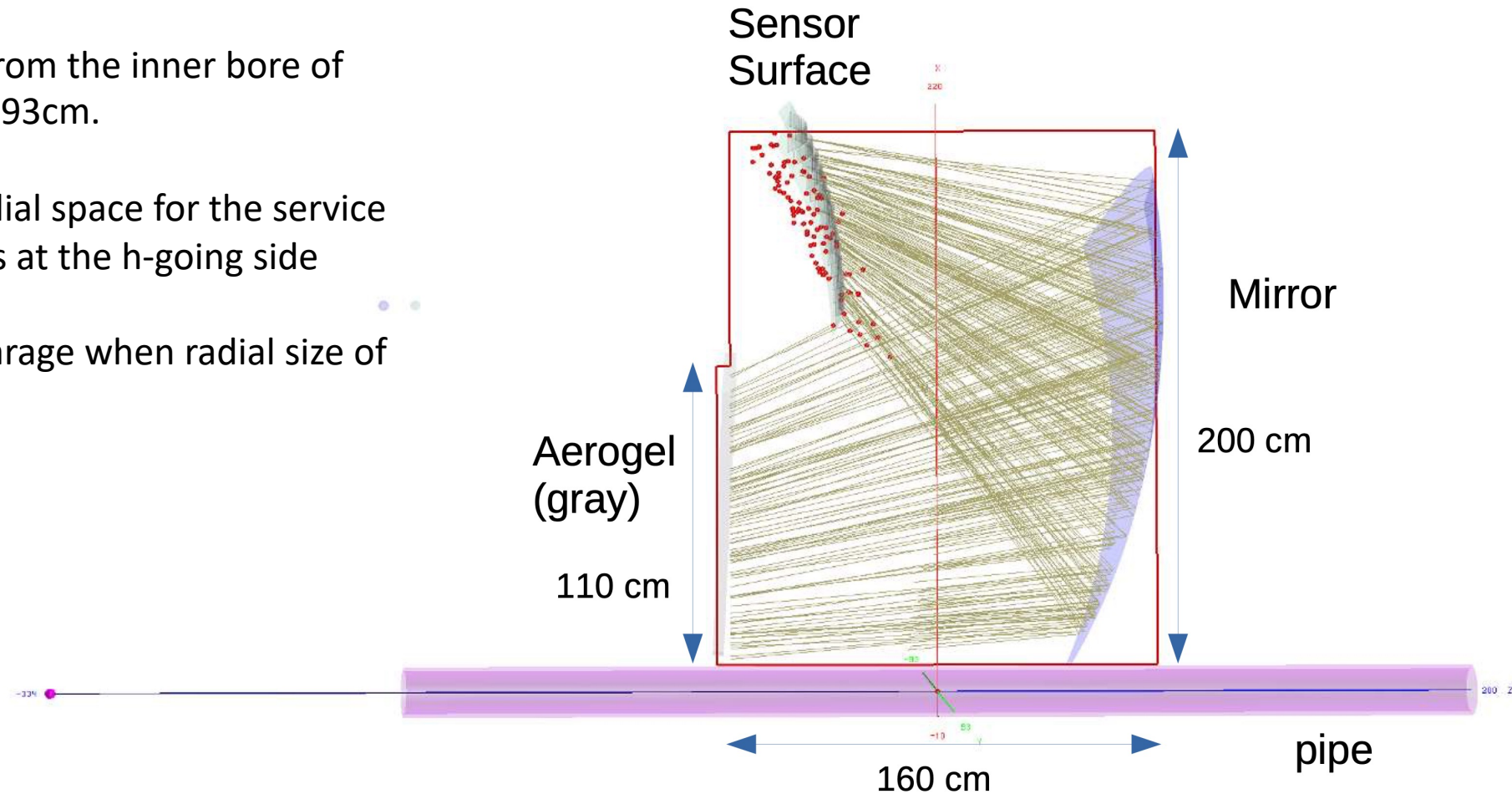


- Integration updates
- Simulation status

July 2nd 2021

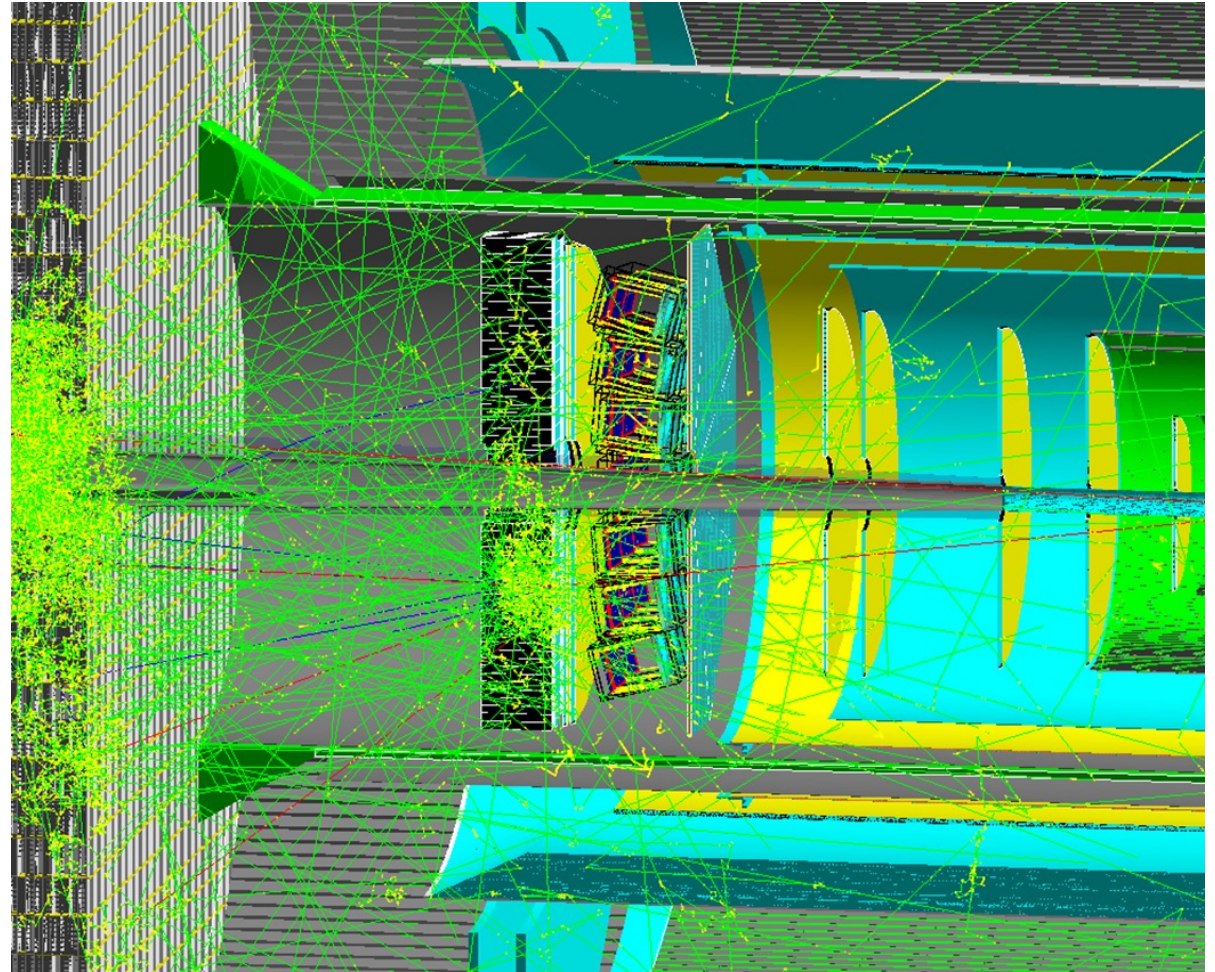
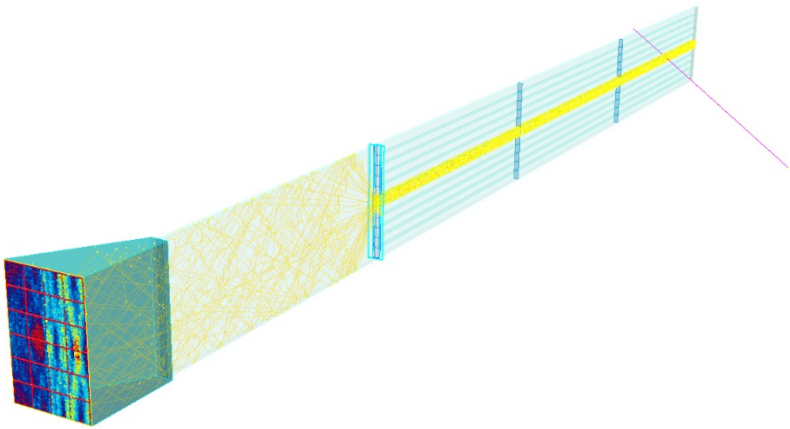
dRICH RADIAL SIZE

- Current 200 cm (+ 10 cm beamline) radial size is too much!
- The maximum radius constraint from the inner bore of outer hadronic calorimeter is $R=193\text{cm}$.
- dRICH should also leave some radial space for the service and cabling of the inner detectors at the h-going side
- Evaristo will study impact on coverage when radial size of dRICH is max 177.5 cm



- During the overlap-resolving process, the outer ring of mRICH modules was removed.
- They were overlapping with DRIC.
- We could add them back by adjusting the module sizes.
- **Even though hpDIRC bar box extends 82cm behind mRICH it doesn't mean it is "active" area of DIRC.**
- We might use this part as just light guide to further improve the performance

Hybrid of **bars and plate** in each sector

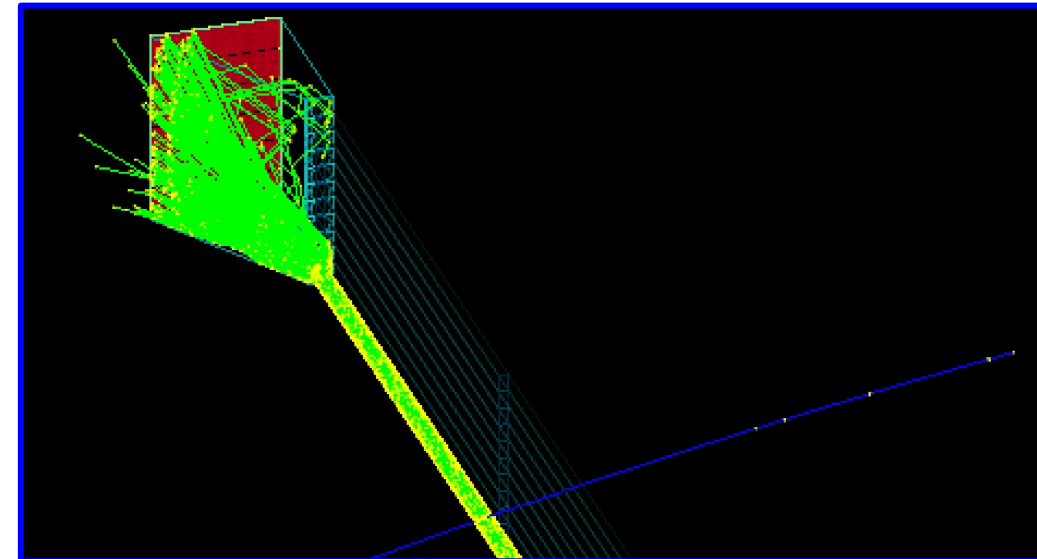
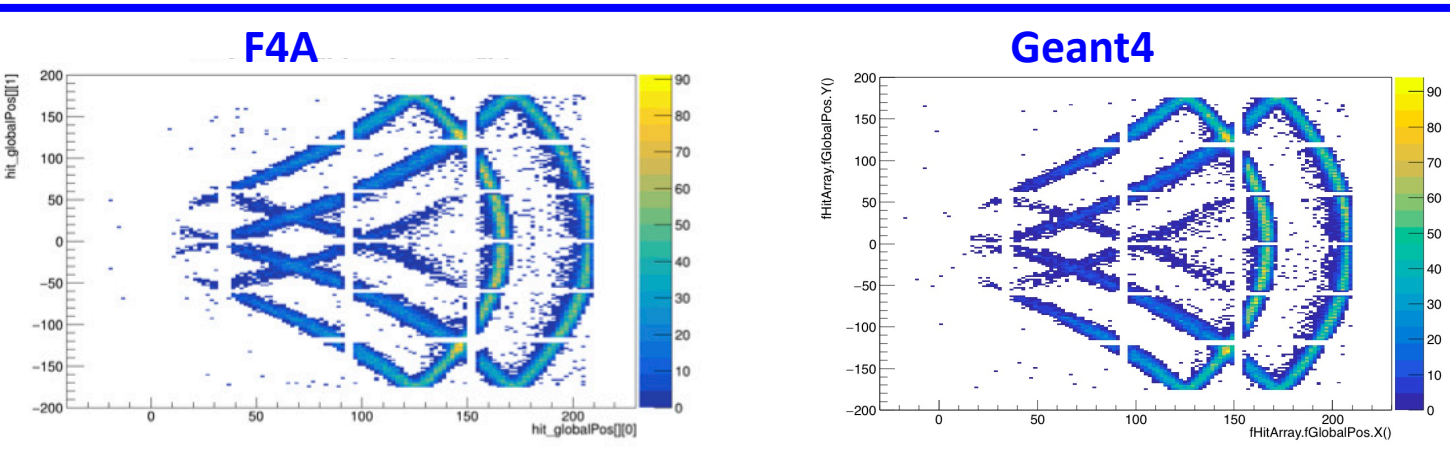
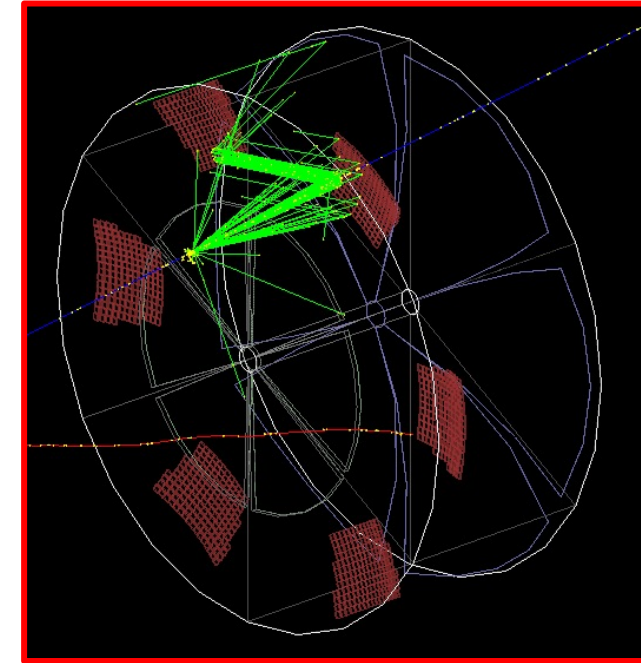


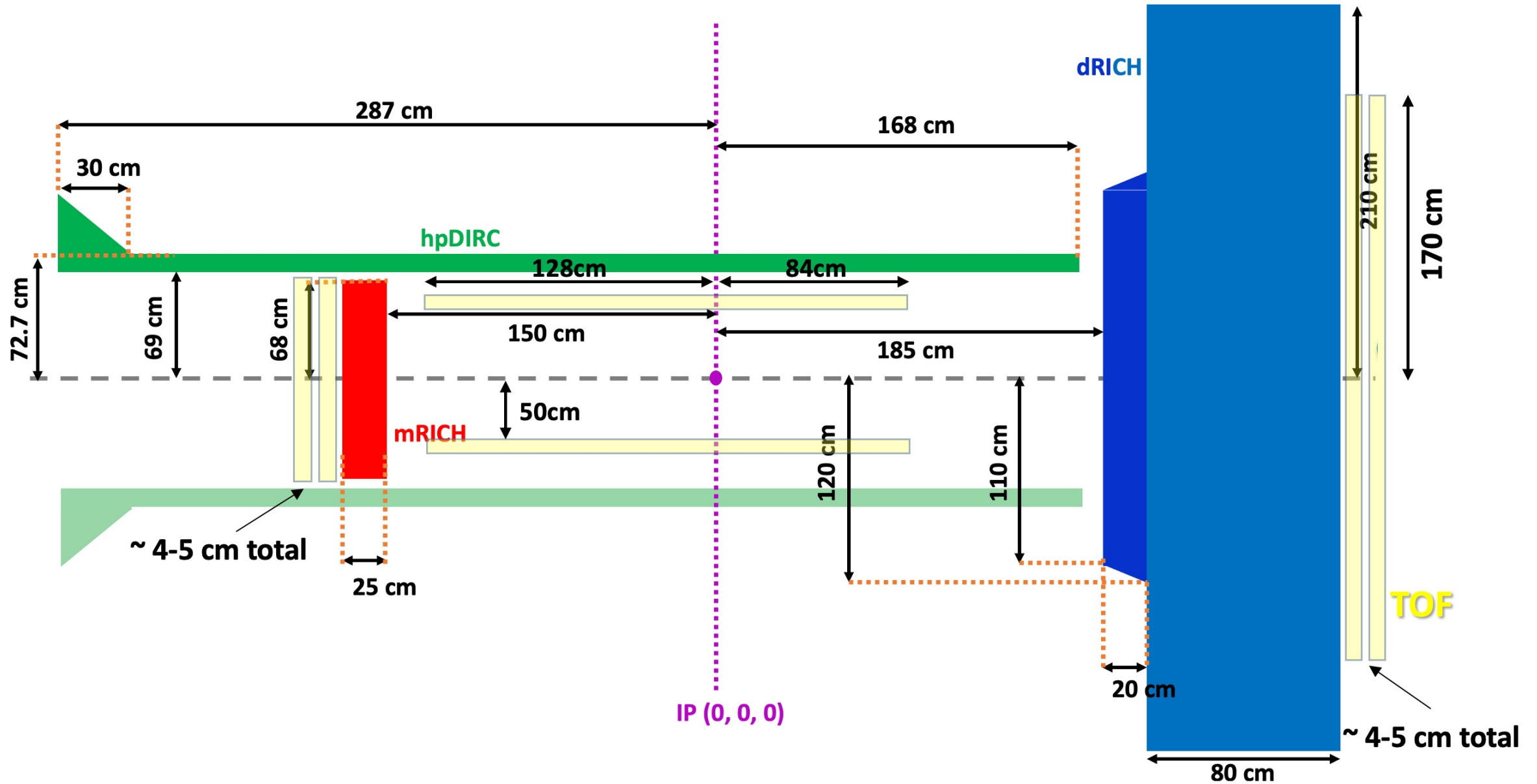
- **dRICH:**

- Chris Dilks gave great report on his dRICH F4A stand alone package (June 23rd https://wiki.bnl.gov/eicug/index.php/PID_Meetings)
- Sebastian Tapia took over testing and improving it with Evaristo guidance
- Cameron Dean is working on porting dRICH in ECCE F4A

- **hpDIRC**

- The hpDIRC geometry is fully available (not scaled yet)
- Hit patterns look good, in progress of checking efficiencies.
- Nilanga Wickramaarachchi and Chris Pinkenburg working on saving information needed for Reconstruction





ECCE SKETCHUP DESIGN

