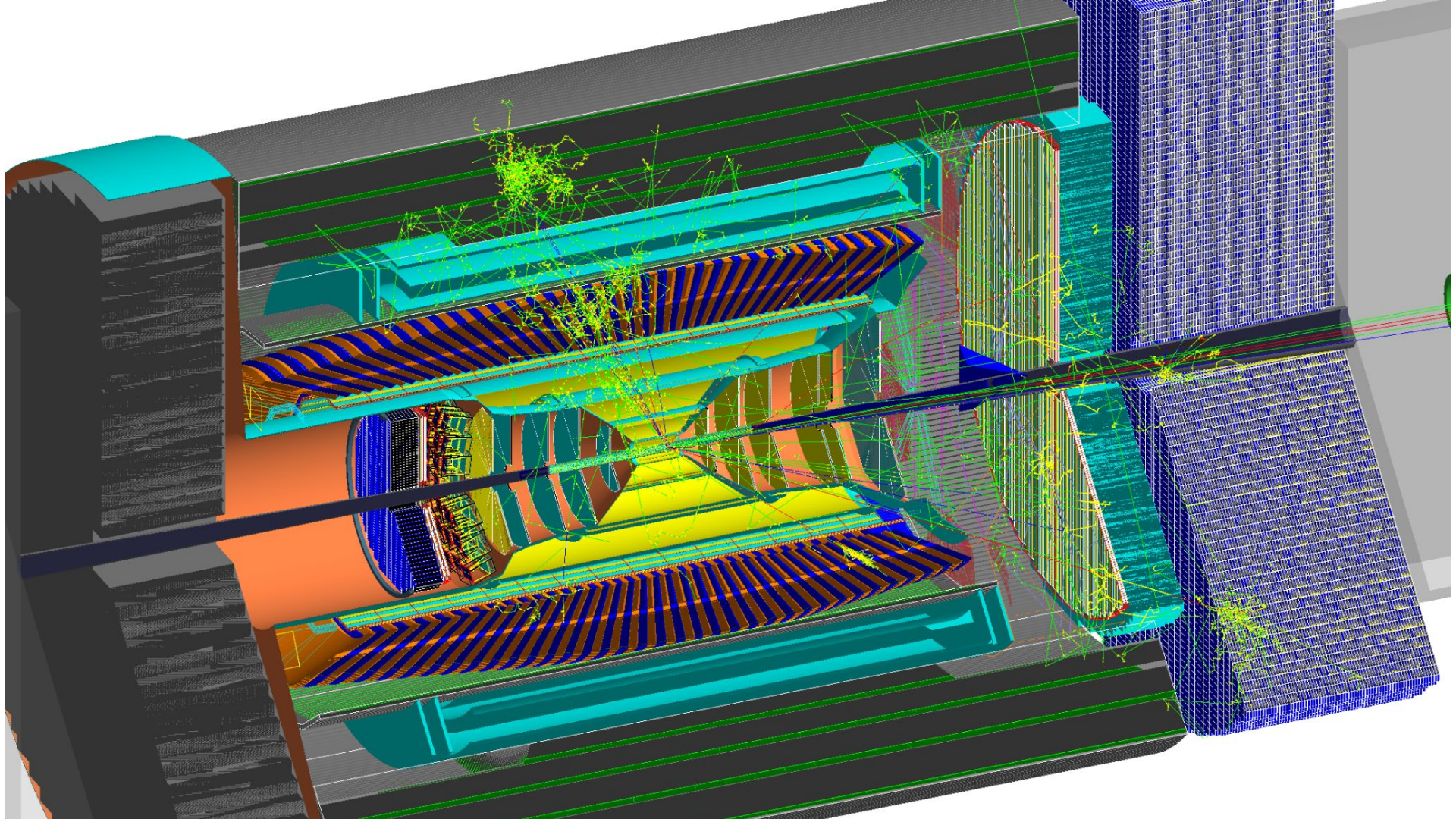


Detector Team Update

11 October 2021





Detector Locations

Multiple DWG conveners, SC, and multiple others reviewed the detector locations in Geant4 and SketchUp last Friday: <https://indico.bnl.gov/event/13448/>

Video: <https://userweb.jlab.org/~doug/ECCE/Videos/Detector-Location-Meeting-08Oct2021.mp4>

Text from the chat is also available:

<https://indico.bnl.gov/event/13448/contributions/55762/attachments/37644/62011/ECCE%20Detector%20Location%20Meeting-2021-10-08%2003-01PM.txt>

Jin and Tanja continued working on this over the weekend to figure out what was really possible within all the constraints.

Current Layout That Works (i.e. everything fits)

| Top level layers | Rin | Rout |
|------------------------------|-----|------|
| Magnet | 140 | 170 |
| EMCal support (instrumented) | 134 | 140 |
| EMCal Glass | 85 | 134 |
| EMCal Readout | 80 | 85 |
| muRwell | 77 | 80 |
| Outer Frame | 73 | 77 |
| DIRC | 70 | 73 |
| Inner Frame | 65 | 70 |
| mRPC (extend to inner frame) | 60 | 70 |
| muRwell | 58 | 60 |
| (Not used, low mass BdL) | 50 | 58 |
| Inner tracker | 3 | 50 |

ECCE Dimension and Configuration Control

- Sketchup used to collect dimensions and locations of subsystem envelopes, mechanical support structures, and can continue to be used to arrange space for services.
 - This is a proxy for a complete CAD model managed by integration team.
- Sketchup and Geant4 are generally consistent and agree within a centimeter.
- Geant4 positions are consistent with Sketchup and, of course, allow performance studies. However, mechanical engineers will not be referring to Geant4. So, Sketchup is essential for documenting/controlling locations.

ECCE Cost, Schedule, and Risks

- Thank you everyone who helped with the cost & schedule sessions!
- Cost & Schedule Team is now working on finalizing our cost planning data.
- Extensive details collected on internal SharePoint site used with conveners.
- We will take our detailed cost estimates from Primavera P6 and output it in the format that the collaboration detector review requested.
- But by going this extra step, gives ECCE high confidence in our:
 - Cost
 - Risk
 - Schedule

**TIME
TO
WRITE**

Please have detector notes in overleaf by 18 Oct. 2021
Big picture goals are to have an ECCE proposal draft together the week of Nov1st and the proposal must be submitted by Dec. 1st.



BACKUP