

Open Discussion

◆ Proposed Short Term Plan – Feedback welcome!

- try to be as [framework-independent](#) as possible
- path of least resistance: if the code is not broken, don't port it (until plans for the full framework are solid)

■ Geometry – [framework independent](#)

- integration: perform re-scaling in DD4hep, re-tune optics, export to GDML, import to Fun4all ECCE configuration
- maintain standalone DD4hep dRICH repository, or integrate with ECCE DD4hep implementation (if available)
- compact (XML) files provide flexibility for external tuning (optimizers)

■ Material and Optical Properties – [framework independent](#)

- properties are parameterized by [g4dRICHOptics.hh](#), and read directly into Fun4all
- the generated property tables have been copy-pasted into DD4hep compact (XML) files

■ Reconstruction – [framework dependent](#)

- DD4hep → Juggler (digitization, QE, etc.)
- Fun4all → ...

■ Analysis – [framework independent](#)

- Juggler / IRT
- Fun4all / IRT (to do?)
- AI optimizers
- ...