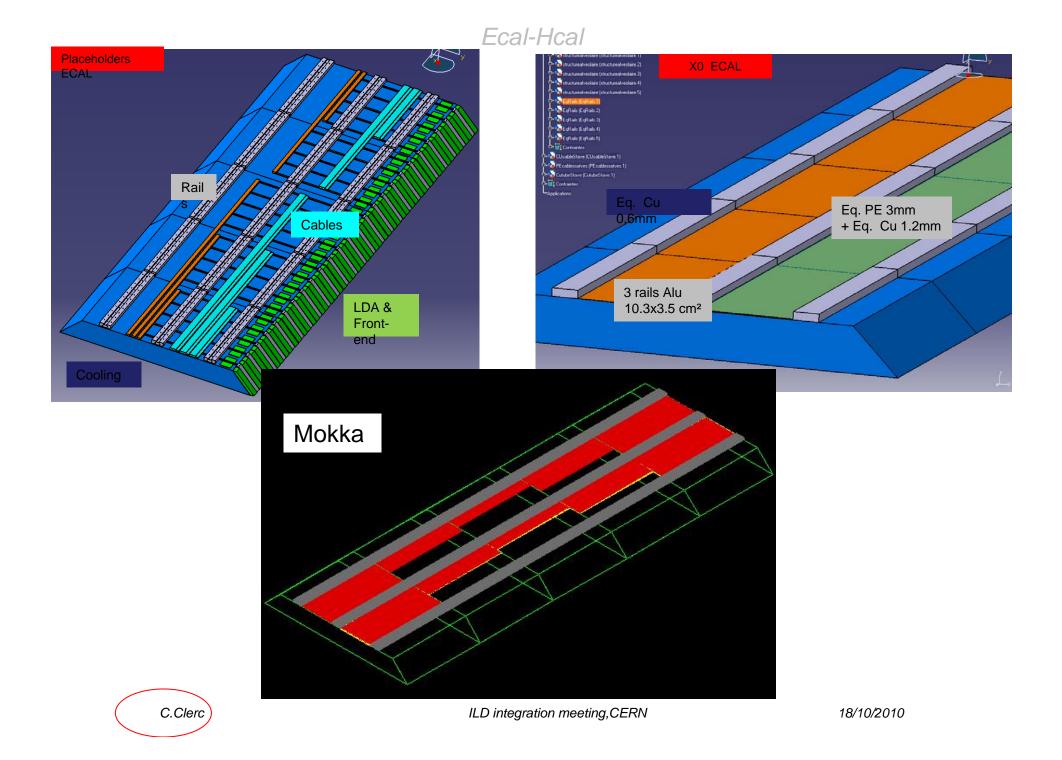
The ILD_01pre00 model and MOKKA work in progress

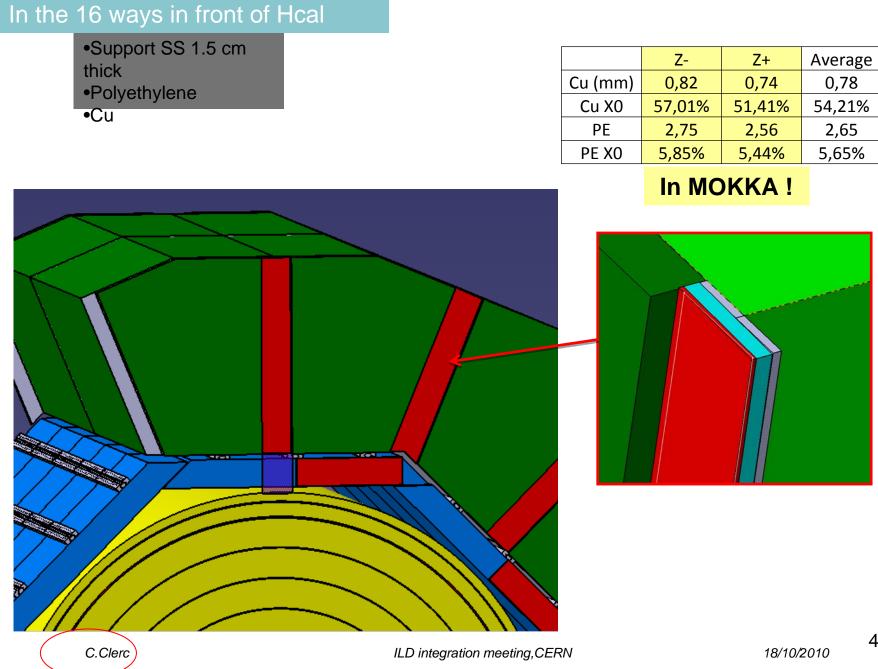
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Towards the ILD model for DBD

- Full implementation for the Si inner tracking devices (FTD, SIT, SET & ETD), including internal support and electronics;
- A new TPC driver with the correct material budget, including the electronic endplates;
- Full implementation for the AHcal electronics between barrel and end caps;
- Full implementation for the services (cables, cooling, supports, etc.) between the TPC, the Ecal and the AHcal.

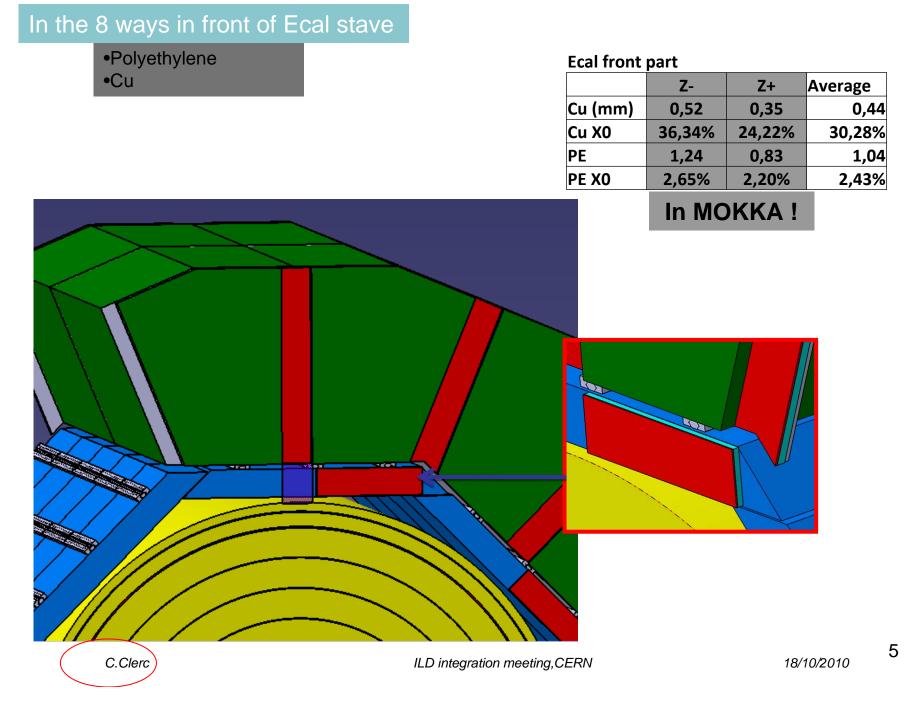


Barrel services : dead materials



4

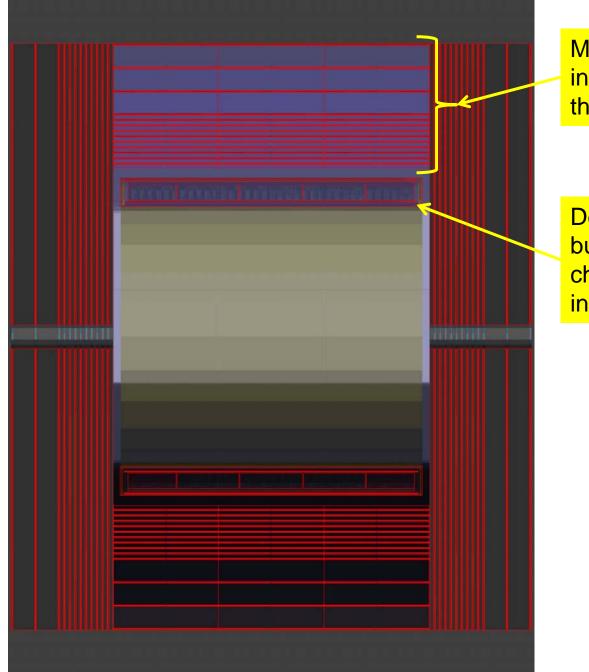
Barrel services : dead materials



Several improvements

- Optional Ecal Si-Sc mixing available;
- New implementations for the Coil and the Yoke, with a more detailed description and new instrumentation for the muon system;
- A new and faster driver for the LumiCal;
- A new driver for the BeamCal for a better implementation and performance;
- Bug fix in the return field in the yoke region.

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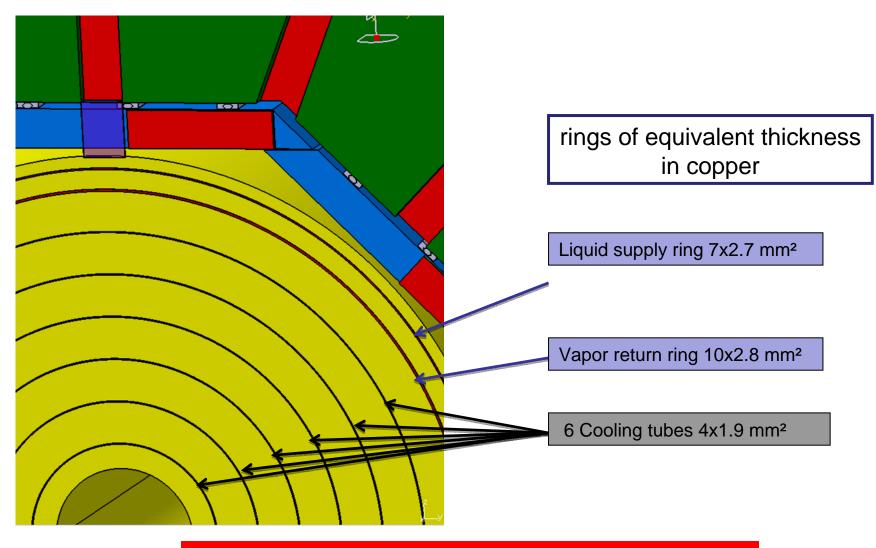
Muon chambers inside Yoke in the right place?

Detailed Coil, but with muons chambers inside?

Still missing for ILD_01

- The supports, cables and services for the : – VXD;
 - Si tracking devices (FTD, SIT, SET and ETD);
 - TPC, between TPC and ETD (only the cooling system is implemented);
 - forward region devices;
- New designs for the beam pipe, LHcal and masks;
- The DHcal option;
- Detailed field for forward region studies.

Barrel services : dead materials



IN MOKKA !



Mokka To-do List 1, to

- User requirements
 - Check tracking of long-lived particles like B meson in Mokka; (J. List, N. Graf)
 - User should be able to define the max step allowed depending on particle type and process which created it (Akiya)
- Interfaces
 - Review GDML structure for Gear/TGeo input
 - Review VRML structure, dumping per detector
 - Magnetic field in the return yoke in GEAR file

Mokka To-do List 2, to

- Support
 - Automatic indexing for the release notes
 - Mokka Web page up dates
 - Detailed pdf 3D files for all models
- Kernel reengineering
 - SQLite stand-alone distribution
 - Scaling mechanism review
 - Forking performance tests

Conclusions

- Work in progress for
 - The ILD_01 model the reference for the DBD studies
 - Depending mainly on the integration group feedback and mechanical designs
 - The MOKKA kernel itself
 - A best effort approach, depending on manpower
- For both, your feedback and help are welcome