FCAL Clustering WG.
Meeting Minutes.
April 29, 2015.

Andre gave a talk: FCal test-beam simulation with DD4hep

- Main setup and separate components of the LumiCal BT geometry were implemented;
- Installation and usage instructions including visualization were presented.

There was a discussion about the segmentation implementation and the possibility to create the realistic model for the gaps between pads. It was decided that implemented segmentation without gaps are good because according to the results of previous BT there is no significant charge loss in the area between pads.
Strahinja volunteered to start working on the BT simulation using existing DD4hep implementation and continue its development.

Itamar and Sasha presented short update on BT data analysis:

- Track residuals received as a result of telescope alignment procedure using TAF framework were consistent with previous results of ~10 μm resolution;
- Sensor plane calibration using events with muons;
- Energy deposition in the layers for the events with different multiplicity (1, >1);
- Comparison of reconstructed shower energy deposition with MC simulation made previously with modified version of LuCaS.

Discussion was around the constants determined in the lab to linearly approximate the response of the readout electronics. Particularly if it is important to use the constant shift of the linear law for the data calibration. Jakub promised to check it.

Next meeting was preliminary scheduled to take place on May 13.