FCAL software and analysis WG.
Meeting Minutes.
May 04, 2016.

Vlad gave a talk on LHCal simulation update.

- Energy range for primary e, π, K, was extended and included 50 GeV and 100 GeV;
- Good linearity of deposited energy was observed for all particles in 1 GeV to 100 GeV range for both Fe and W absorber calorimeters;

During the discussion:

- It was suggested to estimate the energy leakage. One possible approach is to use fitted function which describes longitudinal profile of deposited energy by extrapolating it beyond the calorimeter size.
- Strahinja suggested to use the same units for particle energy and the energy deposited in LHCal then the slope would be a bit more meaningful;
- Itamar suggested to separate the study and conclusions for the the bare LHCal and for the situation when it is embedded into the whole ILC detector. That would be helpful to understand the influence of the detector induced background on the LHCal performance.

Maryna showed some slides and discussed possible effect on LHCal performance of the interaction of primary particle with the beam pipe.