

FCAL S&A WG
Meeting Minutes.
June 14, 2017.

Maryna presented study of Clustering Algorithms and e/gamma Runs Analysis of the TB 2016 Data.

- Three algorithms were implemented and studied with TB 2016 data collected with 5 GeV electrons, 1.5 mm copper target for photon generation, and charge divider in readout;
- All three algorithms showed reasonable performance with similar results;
- 2D cut in position-energy plane allows to better separate electrons and photons in calorimeter.
- Expected anticorrelation between the energies of electron and photon clusters in calorimeter was observed after reconstruction;
- The number of reconstructed clusters per event in all cases seems to be bigger than expected and it should be addressed.

During the discussion it was suggested to check the total energy of the electron and photon clusters.

There was a discussion about talks in AWLC17 and FCAL activity that should be presented. Here is the list topics that were mentioned:

- Results of TB 2014 based on the paper;
- BeamCal prototype with sapphire sensors;
- Status of electronics development for LumiCal and BeamCal;
- Thin detector modules design and their performance in TB2016;
- The status of FCAL reconstruction software;

We agreed that speaker will prepare the drafts of the slides by next Wednesday, June 21, and we organize vidyo meet to discuss them.