FCAL Clustering WG. Meeting Minutes. July14, 2014.

Lucia presented results on BeamCal Reconstruction Algorithm. There was a discussion on each step of the algorithm and its implementation.

It was advised to

- Check the results of the study using André's algorithm implementation;
- Consider to increase the number of BXs for threshold calculation. The study presented used 10 BXs. Compere performance with fixed and continuously updated threshold.

Bruce gave a talk about BeamCal simulation study at SCIPP.

- It was suggested to find a way to exchange algorithms which were used by Lucia and Bruce for cross check and results comparison.
- It was suggested to use BeamCal geometry implemented in Mokka as a correct one for all studies.

André presented the current status of the BeamCal and LumiCal reconstruction software.

- Full support of LCIO must be implemented in LumiCal clustering software;
- There was discussion on geometry implementation and it was decided to consider the usage of one single implementation either in DD4HEP or SLIC;
- Andre already wrote the BeamCal part in DD4HEP and volunteered to do so also for LumiCal.

In the general discussion it was stressed that it is important to enable reconstruction algorithms to work with LCIO files for I/O to facilitate the comparison between different algorithms. Since MOKKA stops to be supported it would be a good idea for the FCAL collaboration to move to DD4HEP.

WebEx does not work with IcedTea Open JDK in Linux, but it should work with Oracle Java. Other alternatives of the meeting software can be discussed.

Next meeting was scheduled to take place on July 28, 4pm (CET).