

FCAL Clustering WG.  
Meeting Minutes.  
September 22, 2014.

Bruce and Christopher made a presentation on BeamCal reconstruction study with different geometry. Three cases were considered: uniform segmentation with  $3.5 \times 3.5 \text{ mm}^2$  and  $7.6 \times 7.6 \text{ mm}^2$  cell size and proportional (varied) segmentation. Efficiency, position and energy resolutions were presented.

- After the bug fix the background to signal ratio still remains higher than in previous study performed by the Colorado university group. Andre and Itamar advised to check several previous publications and presentations where the BeamCal background was studied;
- Andre pointed out that the approach used to check the Lorentz angle was not completely correct.

Sasha presented short update on the LCIO implementation in LuCaS and in LumiCal clustering software. Code has been completed. Simulation with LuCaS and reconstruction with cluster finder can be run, though there is no agreement between simulated and reconstructed data.

- Andre advised to check the geometrical parameters of LumiCal which were used in LuCaS and in cluster finder;
- The new modified version of cluster finder should be submitted to svn and it can be discussed with Andre.

The time of the next meeting will be discussed and set during the FCAL meeting in Belgrade.