

FCAL S&A WG
Meeting Minutes.
November 29, 2017.

Andre presented Update for the LumiCal Reconstruction Software.

- The study was made using CLIC LumiCal model with inner and outer radii of 10 cm and 34 cm respectively and 64 radial pads;
- Results were compared with those presented in LCD-Note-2009-002 (similar geometry but with 50 radial pads);
- Several corrections and optimizations were implemented in the reconstruction software;
- The logarithmic weighting algorithm for cluster position reconstruction was modified by introducing an additional weight which is inversely proportional to the pad area;
- Switched from (x,y) calculation to polar angle directly;
- The resolution of polar angle reconstruction and bias were significantly improved. The periodic pattern in their dependence on polar angle is observed.