

Minutes of the 36th SiD optimization meeting

02-Jun-2015

Present:

Christopher Milke (CM)
Joel Goldstein (JG)
Norman Graf (NG)
Tom Markiewicz (TM)
Bruce Schumm (BS)
Anne Schütz (AS)
Jan Strube (JS)

Last week's Work Items:

- Create Confluence page for the background studies. Should document basic steps for generating the guineapig pairs and the conversion to LCIO files. (AS) ← **DONE**

Agenda and points of discussion:

1. Scintillator HCAL simulation updates
 - a. Peaks at low energies for small tile sizes are probably just geometric effects due to $\theta \neq 90$ degrees.
 - b. The shoulder at $2xMPV$ in the MIP spectrum seen by CLIC and ILD is somewhat hard to explain. CLIC is trying to follow up on this. We'll keep an eye on their efforts and are in touch with the experts at DESY.

Work Items:

- Create script that combines the three different steps for converting from ASCII to hepevt, from hepevt to stdhep, and merging a number of particles into the same event for easier processing into one script to convert from ASCII to LCIO. (AS)
- Provide starting point in GeomConverter for implementing a cylinder rotated around the IP by the crossing angle. (NG)
- Make an x-y plot of the hits to confirm the geometry used for all files was indeed the same. (CM)