Software Coordinators Report

ILD Software and Analysis Meeting
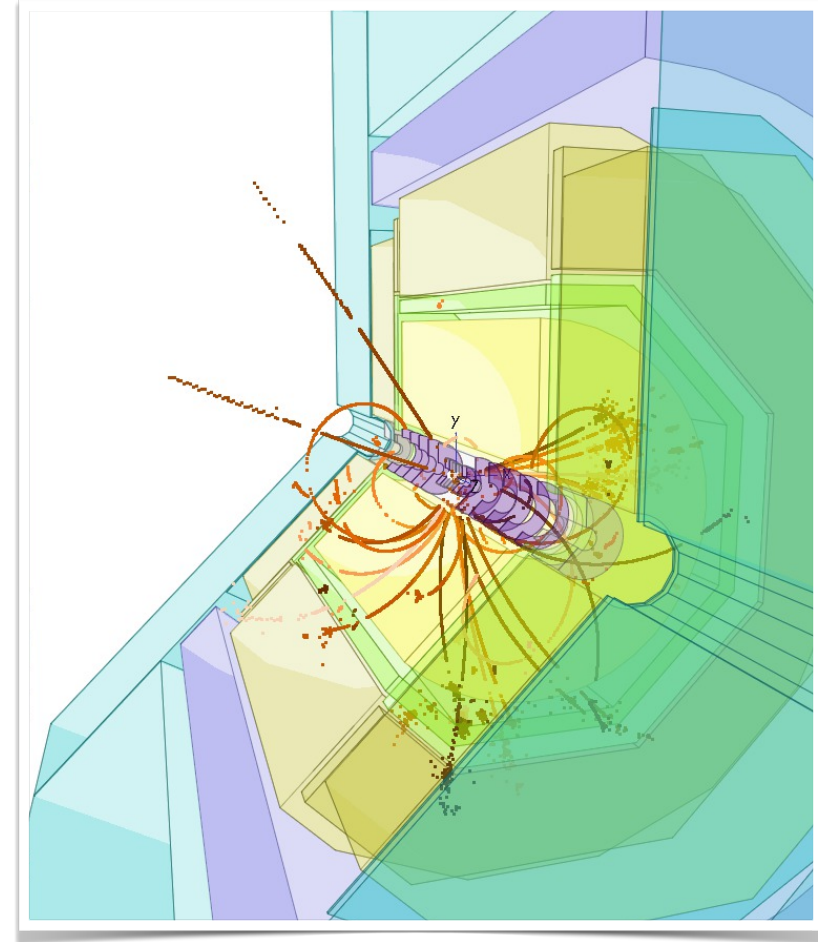
27.03.24

Frank Gaede, DESY

Outline

- Generator

- Simulation

- Reconstruction

- Monte Carlo Production

report from SW convenors meeting last Friday

Generator

M.Berggren

- recently discovered issue in cuts for Bhabha samples generated at 500 GeV:

  - falsely applied cut to enhance large angle scattering region correctly

- created new samples with correct cut

  - will delete the corresponding samples on the GRID-SE

  - MB in contact with T. Suehara, H.Ono and Y.Yonamine

- looked into boost along z for DD4hep/DDG4 (needed for HALHF)

  - should create a new module BoostAllongZ in DD4hep

  - need to see how to best include (and test) this in DD4hep

Simulation

D.Jeans

- some recent changes committed to CLD LumiCal model by CLD colleagues

- Jan Benhamou started to look into ILD4fcc LumiCal model

  - …

Reconstruction

T.Madlener

- new iLCSoft release v02-03-03

  - installed in /afs/desy.de/project/ilcsoft/sw/x86_64_gcc10_centos7/v02-03-03/

- known issue w/ this ilcsoft relase inside key4hep stack:

  - crashes on **centos7** inside LCFIPlus

  - most likely due to sth. in ROOT when compiled with c++20

- works in iLCSoft standalone (e.g.: afs) and in key4hep for **alma-linux9**