

Software Coordinators Report

ILD Software and Analysis Meeting

09.11.22

Frank Gaede, DESY

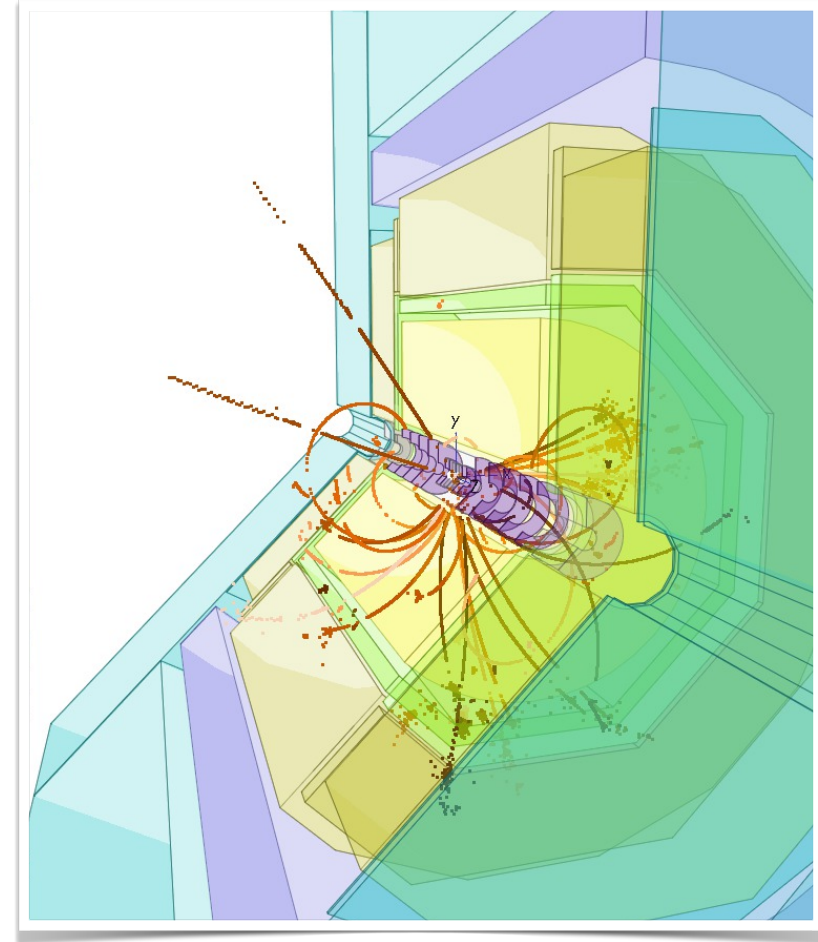


Outline



- Generator
- Simulation
- Reconstruction
- Monte Carlo Production

report from SW convenors meeting last Friday



Generator

M.Berggren



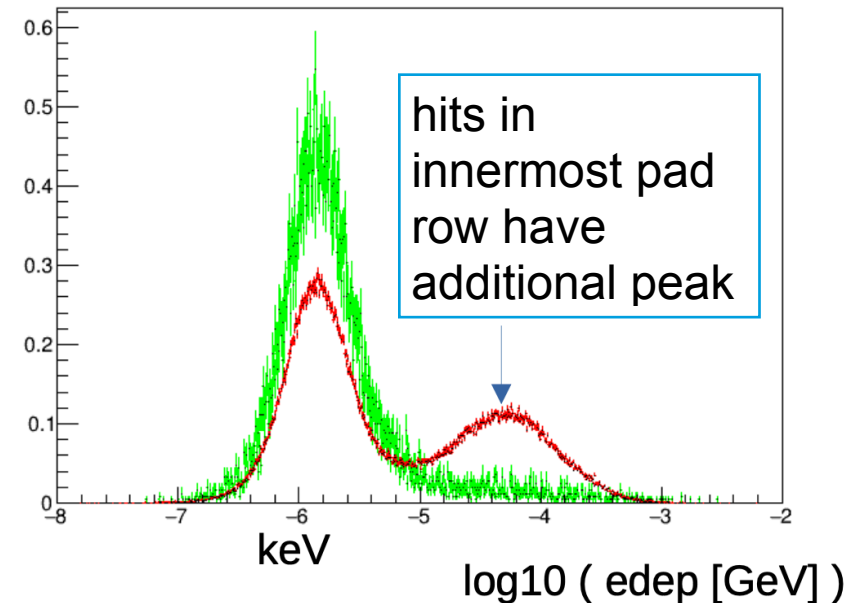
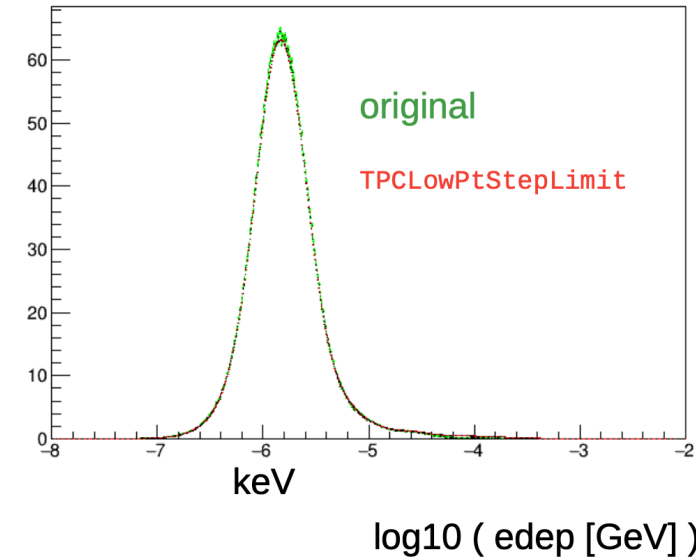
- now ready to produce the virtual photons
 - some final tests of production chain done
 - will start to generate the full sample and copy to grid for production
 - expect this to take about two weeks ...
- then will run ~5% through the full simulation and reconstruction chain for cross check of production and resource estimate
- total of 86 channels
 - 72 w/ < 1M evts / 14 big channels: ~ 450 M evts
 - corresponding to ~1year of 250 GeV running
 - will result in event weights of ~10.0
 - roughly twice the Bhabha running (not small !)

Simulation

D.Jeans

- with K. Fujii started to look into simulating the TPC ionisation from physics events
 - need adjustments for simulation settings of TPC SimTrackerHit collections
 - correct setting for micro curlers etc...

- found bug in current TPC sensitive detector for lowest tracks
 - to be fixed
 - however, not used in any recent mass production !



Reconstruction

T.Madlener



- recent hot fix in TOF estimator for seg. fault in track refitting (B.Dudar)
- planning to make an iLCSoft patch release v02-03-01 soon
 - a number of packages have been updated
 - **create PR now if you have any pending work that you would like to have in this release**
- added unit tests to the historically grown *HelixClass* in MarlinUtil
 - w/ goal to replace it eventually w/ newer aidatt::helix

Monte Carlo Production

H.Ono, R.Yonamine

- **complete set of Bhabha samples @ 250 GeV finished**
 - ready for people to analyse, e.g. at DESY-NAF:
 - `/pnfs/desy.de/ilc/prod/ilc/mc-2020/ild/dst-merged/250-SetA/2f_eehiq_eL_pL`
 - `/pnfs/desy.de/ilc/prod/ilc/mc-2020/ild/dst-merged/250-SetA/2f_eehiq_eL_pR`
 - `/pnfs/desy.de/ilc/prod/ilc/mc-2020/ild/dst-merged/250-SetA/2f_eehiq_eR_pL`
 - `/pnfs/desy.de/ilc/prod/ilc/mc-2020/ild/dst-merged/250-SetA/2f_eehiq_eR_pR`
- waiting for generation of virtual photon samples to be finished
 - to start final large chunk of the complete 250 GeV production

