

Software Coordinators Report

ILD Software and Analysis Meeting

26.05.21

Frank Gaede, DESY



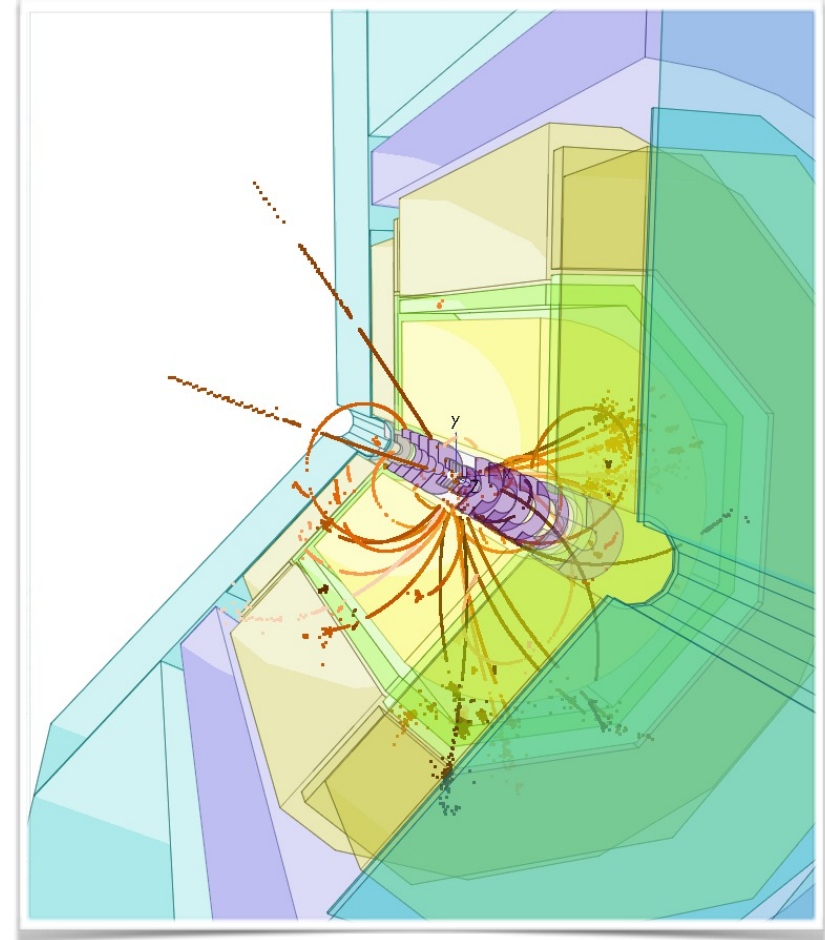
Outline



- Generator
- Simulation
- Reconstruction
- Monte Carlo Production

- tutorials

report from SW convenors meeting on Friday

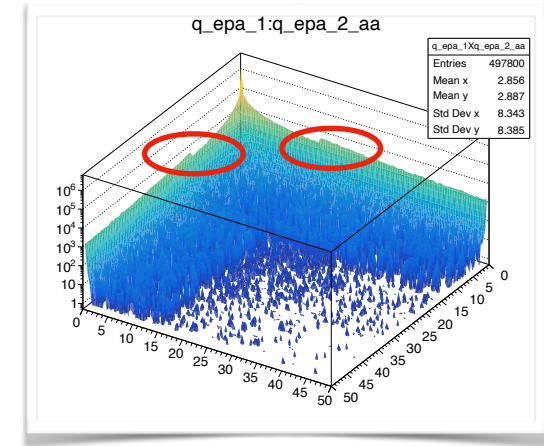


Generator

J.Tian



- not too much news on generator side
- had a meeting w/ Whizard authors on the issue with photon-photon cross section
 - “not trivial to fix”
 - W. Kilian will ask student to have a closer look
- possible fall-back solution
 - reweight the cross section as a function of Q^2 to smoothen it correctly
- 6f generation currently paused
 - basically ready
 - need tuning of resonant history

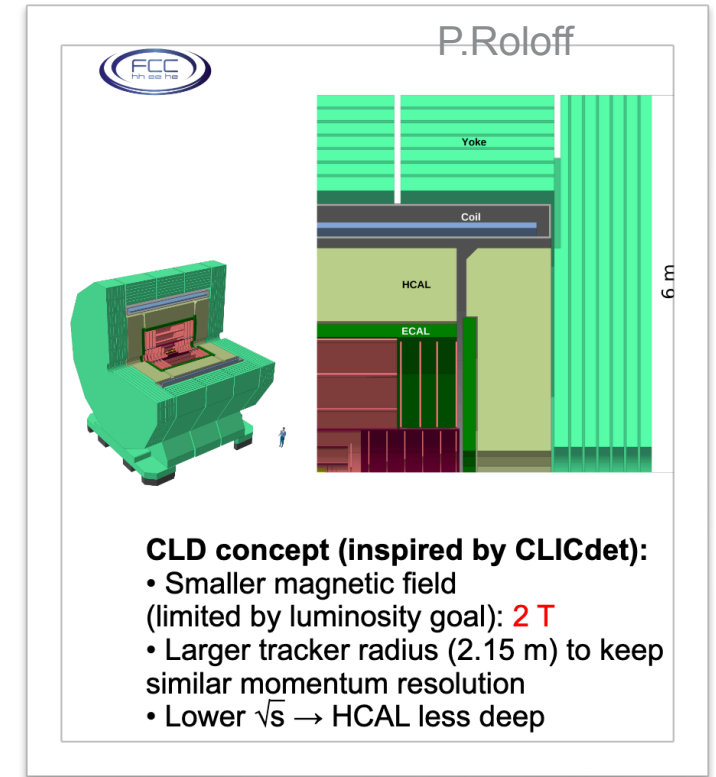


Simulation

D.Jeans



- some initial thoughts/discussion on preparing an ILD model with a silicon tracker
- could use CLICdp tracker “*out-of-the-box*”
 - would perfectly fit into **ILD-S** detector model
 - -> need adjustment of layout for **ILD-L**
 - NB: similar thing had been done for FCC-CLD
- main question: is this sth. ILD would like to study ?
 - what can we learn from this ?
 - some effort needed from software and analysis groups ...



Reconstruction

A.Irles, T.Madlener

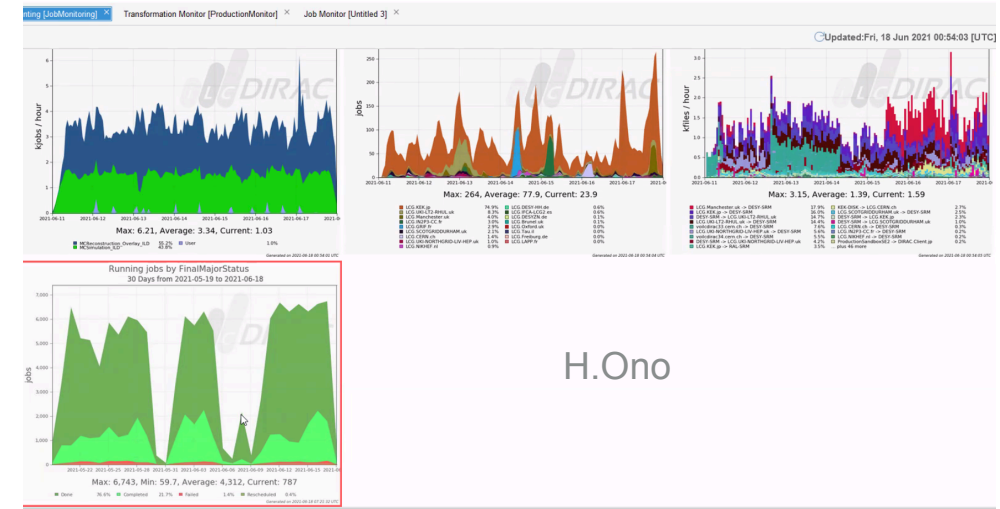
- **ilcsoft v02-02-02 now released and installed in afs/cvms**
 - see mail T. Madlener
- some work planned on LCIO
 - would like to modernize LCIO **cmake, CI, etc.**
 - would need to **deprecate the f77 interface**
 - and maybe also **the C interface ?**
 - will first put a deprecation warning there
- preparing a new series of **developer releases w/ gcc10, python3,...**
 - e.g. at /afs/desy.de/project/ilcsoft/sw/x86_64_gcc10_centos7/HEAD-2021-03-31/
- request for an update of the **RawCalorimeterHit** from CALICE
 - currently under discussion in CALICE...

Monte Carlo Production

H.Ono, A.Miyamoto

- **2f, 4f, H samples complete statistics done** - except 2f hadronic samples

- moving to finish 2f hadronic samples
 - currently **6-7 k jobs running in parallel**
 - expect ~2 months to finish
 - some issues observed last week due to network problems at DESY
- only left then
 - 6f samples (small cross section)
 - samples w/ virtual photons (larger cross section)



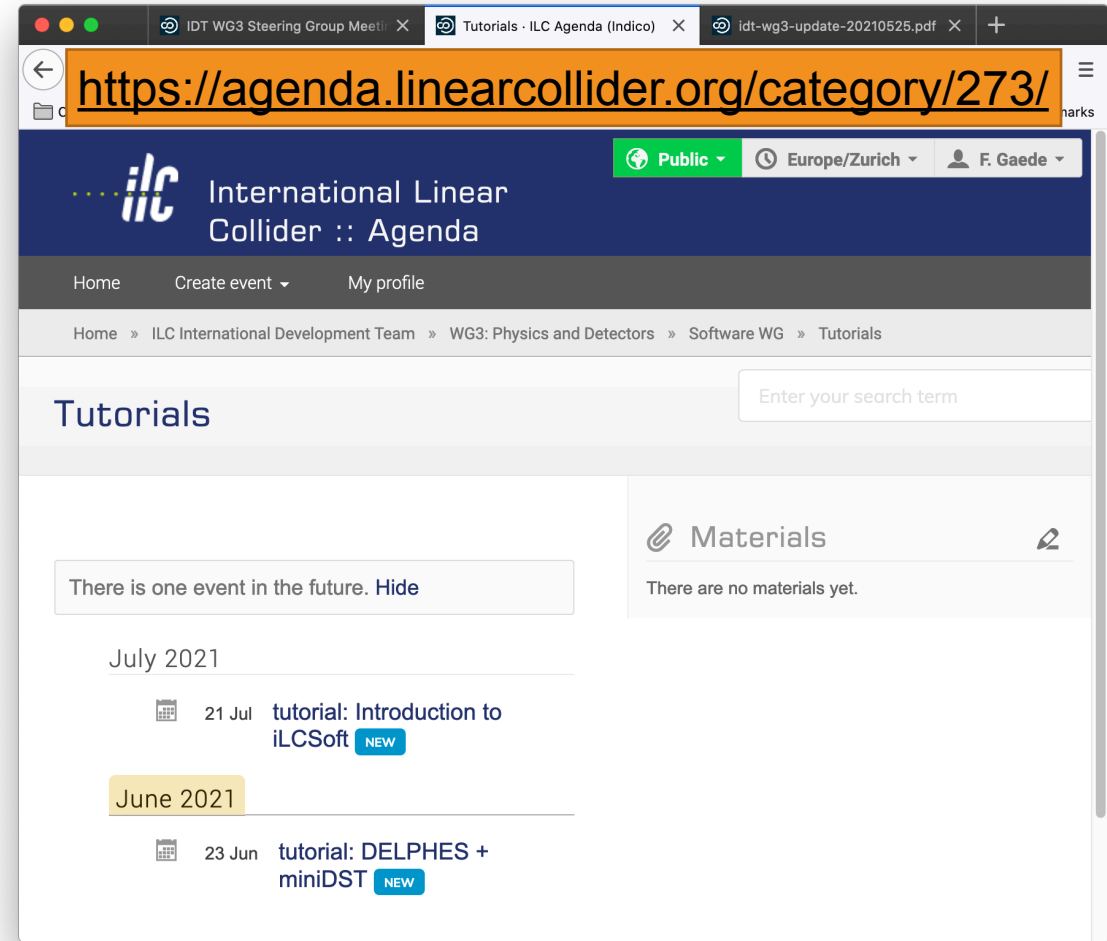
H.Ono

check status of production at this web page:
<https://ild.ngt.ndu.ac.jp/mc-prod/prodmon/prodsum-mc2020.html>

Regular ILC Software tutorials

organised by IDT-WG3-SW

- organising a series of monthly seminars tutorials
- **Wednesdays**
 - **06:30 PDT / 15:30 CEST / 22:30 JST**
 - 60~90 minutes
- first one will be **later today - June 23:**
 - DELPHES ILC card (Filip Zarnecki)
 - “make your first ILC Higgs plot” (Jenny List)
- second one on **July 21:**
 - Introduction to iLCSoft (Thomas Madlener)
- future candidates: SGV, LCFIPlus, PandoraPFA, ddsim/DD4hep,...
- what do you want to see covered ?
 - send your suggestions to:
ilc-swc-coreATml.post.kek.jp



The screenshot shows a web browser window displaying the ILC Agenda website. The URL in the address bar is <https://agenda.linearcollider.org/category/273/>. The page header includes the ILC logo and the text "International Linear Collider :: Agenda". The navigation menu shows "Home", "Create event", and "My profile". The breadcrumb trail is "Home > ILC International Development Team > WG3: Physics and Detectors > Software WG > Tutorials". A search bar is present with the placeholder text "Enter your search term". The main content area is titled "Tutorials" and contains a "Materials" section with the text "There are no materials yet." Below this, there is a calendar view for "July 2021" and "June 2021". The July 2021 calendar shows a single event on July 21: "tutorial: Introduction to iLCSoft" with a "NEW" badge. The June 2021 calendar shows a single event on June 23: "tutorial: DELPHES + miniDST" with a "NEW" badge.