Software Coordinator's report

Akiya Miyamoto (Deputy Coordinator)

ILD Software and Analysis Meeting

January 23, 2019

News from the last soft. conveners meeting

Outline

- ■ **Generator**
- ■ Simulator
- ■ **Reconstruction**
- ■ MC production

Generator

Mikael, Junping

- **Whizard**
  - ◆ Re-weighting of events, necessary for BSM physics, does not work. Reported to the Whizard developer.

  - ◆ Whizard2.7 was released this week.
    - Start to test the new release
    - Requires gfortran >= 5.1
    - Report at CLIC WS this morning by J.R.Reuter. https://indico.cern.ch/event/753671/

- **Issues for 250 GeV production.**
  - ◆ Whizard2 validation of LCIO file, physics, etc.
  - ◆ Circes2 parameter
  - ◆ lowpt hadron events,
  - ◆ etc.

Reconstruction

Remi

- **Parallel Marlin**
  - ◆ Thread safe LCIO
    - ● SIO has been re-write.
    - ● Non-trivial problem in event data classes. Looking for solution.

- **Reconstruction with o3 option, Strip Sintilator ECAL**
  - ◆ Pull request was received and preparing to commit.
  - ◆ After commit, need validation/feedback from SciECAL group

- **Issue om TrueJet reported by J.Beyer.**
  - ◆ The fix for commit was selected from two independent fixes prepared.
  - ◆ It will be committed soon.

ILD Silicon tracking

Shaojun

A study on tracking performance
- Better performance with new Silicon Tracking for low pt tracks.
- Study with background overlaid (lowPt hadrons and seeable pairs)

ILD Silicon Tracking Performance Studies

Talk about the triplets finder applied in SiliconTracking:
Try to understand and find out the truth and the key point.
Provide a solution based on the understanding.
Compare the ILD performance with detail studies.

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HELMHOLTZ RESEARCH FOR GRAND CHALLENGES

iLCSOft

AIDA 2020

DESY.