Software Coordinators Report

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ILD SW-Ana Meeting, Aug 26, 2020

- Generator
- Monte Carlo Production
- iLCSoft production release for 250 GeV production
- Snowmass Activities

report from *ILD Software Convenors Meeting* today

- ongoing preparation of of 250 GeV generator samples (Whizard 2.8.4)
  - M.Berggren had succesfully performed a one-permille *try-run* of 2f-5f channels for 250 GeV production
- now refining scripts for large generator production
  - resubmitting in case of failure
  - un-assisted uploading to ILCDirac file catalogue and DESY-SE
- pending: treatment of channels w/ one or more virtual photons
  - postponed for now with goal to start production w/ main physics channels
- JT has started test production for complete 2f/4f *higgs* samples
  - working on decay mode of the scripts
  - will address 6f samples later

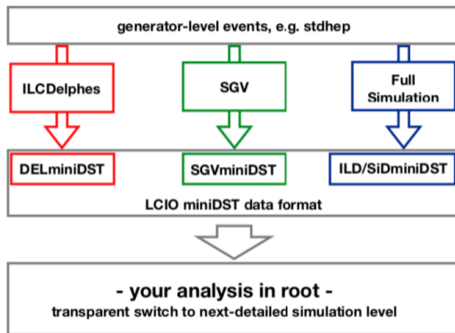should be ready to **start with generation very soon** . . .

- working with generator group on preparing the 250 production
  - meta data, directories, scripts

- KEK computing center currently down - will be updated next week

iLCSoft production release v02-02

- test production with release *v02-01-01* had been validated by *physics working group*

- since then found two issues:
    - memory leak in LCIO when used outside of Marlin → *fixed*
    - compression in LCIO when used outside of Marlin → *fixed*

- started to prepare **production release v02-02** with this
    - already pre-installed in *cvmfs* and *afs*

- new issue found in *MarlinReco* with covariance matrix for neutral particles
    - see talk. Y.Radkhorrami today

- will add patched *MarlinReco* and tag final production release v02-02
    - asap

Snowmass Activities from ILD Software and Physics J.List

- LCC Physics WG & friends:
  "Study Question" Document

- ILC Delphes card
  (F. Zarnecki et al)

- delphes2lcio (F. Gaede)

- miniDST (S. Kawada et al)

- SGVminiDST (M. Berggren)

- examples (F. Gaede, J.List):
  https://github.com/
  ILDAnaSoft/miniDST

- **central point of entry:
  https://ilcsnowmass.org**

generator-level events, e.g. stdhep

| ILCDelphes | SGV | Full Simulation |
| DELminiDST | SGVminiDST | ILD/SiDminiDST |

LCIO miniDST data format

- your analysis in root -
transparent switch to next-detailed simulation level

Snowmass Activities from ILD Software and Physics J.List

- Chris Potter, Jan Strube, F. Gaede, R.Ete, D.Jeans, N.Graf, JL

- offer a first tutorial this Friday:

  - https://indico.fnal.gov/event/45031/

  - so far 24 registrants

- offer follow-up tutorials in September

  - based on feed-back from first tutorial

  - repetition and/or advanced level (e.g. Marlin ?)

  - more details on e+e- analysis techniques?

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