

# Software Coordinators Report

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ILD SW-Ana Meeting, July 29, 2020

- Generator
- Reconstruction
- Test production for 250 GeV
- Delphes2LCIO

report from *ILD Software Convenors Meeting* today

- ongoing preparation of of 250 GeV generator samples
  - using Whizard 2.8.3
- potential issue:
  - some Whizard jobs need to be split due to large cross section
  - would result in *duplicate* or *different* **processIDs** for the same physics process
  - potential workarounds are under discussion
  - need to be compatible w/ production system
  - would like to keep number of files per process at a reasonable level

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

- two issues in test release v02-01-01 found
  
- in new *thread-safe* LCIO version:
  - *re-creation of table-of-contents* for broken LCIO files did not work
  - *compression of content* was turned off by default
  
- both have been fixed and new version installed in cvmfs:

`/cvmfs/ilc.desy.de/sw/x86_64_gcc82_s16/v02-01-02`

## 2nd test production samples

ILCSoft v02-01-02 (v02-01-01 with LCIO patch)

All SIM/REC files are kept this time  
(Only stored at DESY-SE)

ILD-I5-o1-v02 (AHCAL+SIECAL)

(1) Single particle including lambda. (same as v02-01 production)

/ilc/prod/ilc/mc-opt/ild/dst-merged/1-calib/single/ILD\_I5\_o1\_v02\_nobg/v02-01-02

<https://ild.ngt.ndu.ac.jp/eelog/dbd-prod/321>

(2) 2f-JER di-jet samples 10 k events of uu, dd, ss, cc, bb

Energies 40, 91, 200, 350, 500 GeV

/ilc/prod/ilc/mc-opt/ild/dst-merged/1-calib\_IDR/2f-JER/ILD\_I5\_o1\_v02\_nobg/v02-01-02

<https://ild.ngt.ndu.ac.jp/eelog/dbd-prod/322>

(3) Physics samples 10 k events each of

2f\_Z\_l, 4f\_ww\_sl, 4f\_sw\_sl, e2e2h, qqh\_zz, 6f\_llxyy

/ilc/prod/ilc/mc-opt/ild/dst-merged/250-SetA/test/ILD\_I5\_o1\_v02\_nobg/v02-01-02

higgs : <https://ild.ngt.ndu.ac.jp/eelog/dbd-prod/318>

2f-4f : <https://ild.ngt.ndu.ac.jp/eelog/dbd-prod/319>

6f : <https://ild.ngt.ndu.ac.jp/eelog/dbd-prod/320>

validation of samples has started. . .  
see e.g. talk U.Einhaus later

## o2/o3 detector option

Only perform Marlin reconstruction for o2/o3 option using same SIM file (ILD-I5-v02)

### ILD-I5-o2-v02 (SDHcal+SiECAL)

(1) single muon and single k0\_L

/ilc/prod/ilc/mc-opt/ild/dst-merged/1-calib/single/ILD\_I5\_o2\_v02\_nobg/v02-01-02

<https://ild.ngt.ndu.ac.jp/eelog/dbd-prod/323>

(2) 2f-JER (di-samples)

/ilc/prod/ilc/mc-opt/ild/dst-merged/1-calib\_IDR/2f-JER/ILD\_I5\_o2\_v02\_nobg/v02-01-02

<https://ild.ngt.ndu.ac.jp/eelog/dbd-prod/324>

### ILD-I5-o3-v02 (AHCAL+ScECAL)

(1) single muon and single photons

/ilc/prod/ilc/mc-opt/ild/dst-merged/1-calib/single/ILD\_I5\_o3\_v02\_nobg/v02-01-02

<https://ild.ngt.ndu.ac.jp/eelog/dbd-prod/326>

(2) 2f-JER (di-samples)

/ilc/prod/ilc/mc-opt/ild/dst-merged/1-calib\_IDR/2f-JER/ILD\_I5\_o3\_v02\_nobg/v02-01-02

<https://ild.ngt.ndu.ac.jp/eelog/dbd-prod/325>

validation of samples has started...

