

SW coordinators' report

preparing for next large MC production

Daniel Jeans for the software group
ILD SW & analysis meeting, 20 May 2020

MC generator

interaction with the WHIZARD team: (Mikael)

important points for next large production:

- fix sometimes missing tau helicity information
- make it easier to apply selection cuts
after ISR in e.g. gamma-gamma events
- useful feature: callable interface now available
(useful for fast MC)

Reconstruction

yoke hits not always associate to PFOs produced by muons in barrel/endcap region (?)
→ experts are investigating Junping/Remi

Reconstruction for different calorimeter options:

SDHCAL is technically OK (doesn't crash)
not yet clear if the calibration is validated ?

ScECAL: implementation effort underway (Daniel)

others

core software:

new multithread Icio version (Remi)

looks close to production-ready: a few more tests needed

Snowmass working groups:

discussing how to contribute ILC/ILD MC data for studies

- SGV fast-sim with DELPHES-like output ? (Mikael)
- micro-DST with high-level information ? (Shin-ichi)