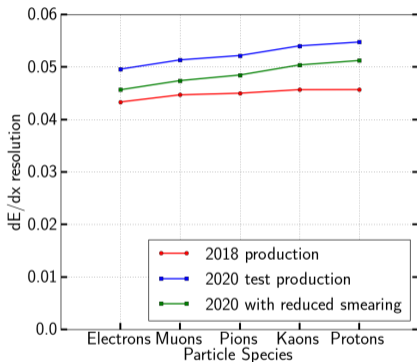# Software Coordinators Report

F.Gaede, DESY

ILD Meeting, May 6, 2020

- Generator
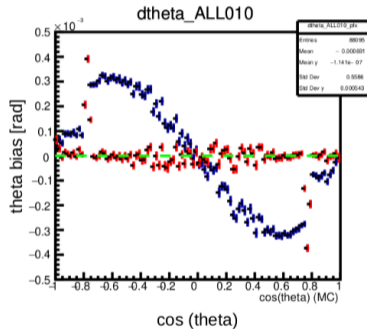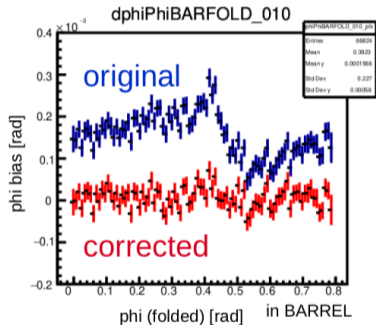- Simulation
- Reconstruction
- Monte Carlo Production

report from *ILD Software Convenors Meeting* today

- produced generator test sample $qqH, H \rightarrow ZZ^*$

- generator cuts for low Q^2 $\gamma\gamma$-events
    - under investigation by MB (see talk last week)
    - probably not an issue for production
    - to be iterated w/ Whizard authors

- U.Einhaus computed new smearing factor in the
  Compute_dEdxProcessor of 0.029
  - leads to a dE/dx resolution of about 4.45% for
    fiducial electrons
  - still an effective increase compared to 2018
  - but consistent with LCTPC test beam results
    (4.4%-4.7%)

- adjusted calibration constants for γs
  - trying to correct for +- 0.5% bias in barrel and
    endcap
  - *validation ongoing*

- new issue in μ reconstruction
  - see talk J.Tian

Reconstruction D.Jeans

- DJ continued work on energy dependent correction for angular bias
  - $\phi, cos(\theta)$
- to be added to PhotonCorrectionProcessor
  - planned for end of this week

Monte Carlo Production <small>A.Miyamoto, H.Ono</small>

- produced an additional 10 k evt test sample: $H-> ZZ^*$
  - using ilcsoft v02-01
  - *validation pending*

- after open issues resolved in patch release v02-01-01:
- produce di-jet calibration samples with *uds*, *cc* and *bb*
  - using new ILDConfig with **reconstruction/calibration issues fixed**
  - reconstruct these with **all three detector options:**