

# Software Coordinators Report

ILD Software and Analysis Meeting

13.04.22

Frank Gaede, DESY

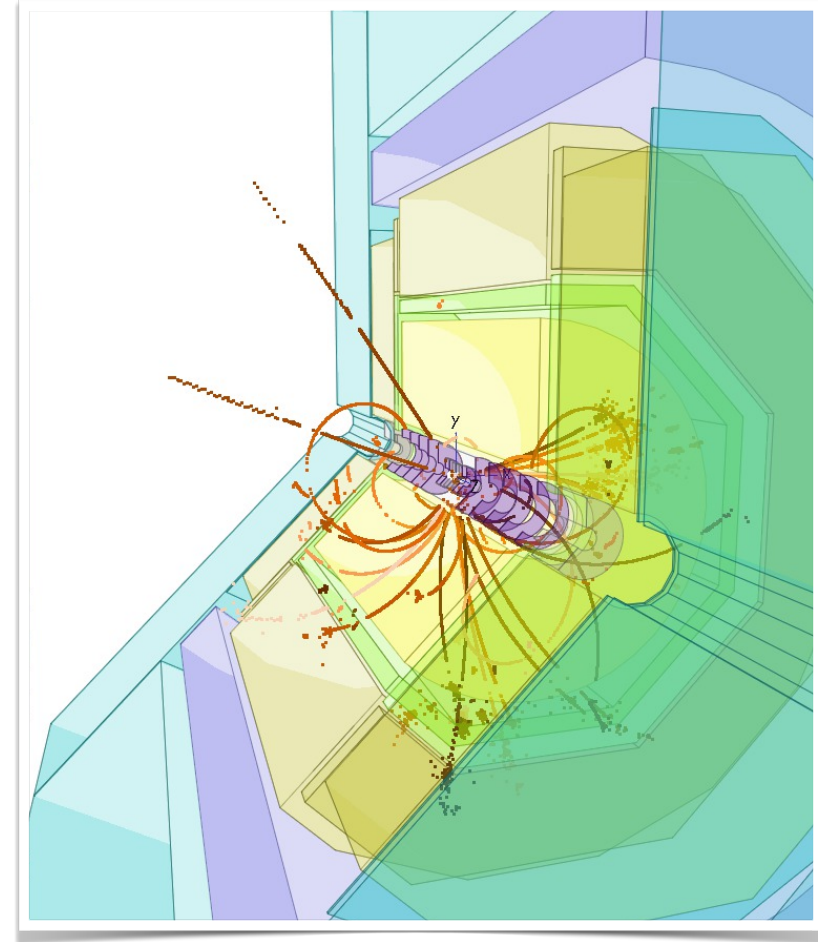


# Outline



- Generator
- Simulation
- Reconstruction
- Monte Carlo Production

report from SW convenors meeting last Friday



# Generator

J.Tian, M.Berggren



- ongoing work to sort out exact production scripts for aa->2f/4f and ae/ea->3f
  - make sure that there is no double counting and ID numbers are correct...
- have estimates for computing resources need for these virtual photon samples
- decided to generate the full statistics
- but produce the smaller (~year of H20) sample with full sim/rec first
  - if issues in analyses arise, produce more or fall back to SGV...

For the nominal integrated lumis for these samples (1/0.2/0.2/1  $\text{ab}^{-1}$  for LR/LL/RR/RL):

	KEKcc cpu [Gs]	DST [TB]
aa_2f	5.0	42.5
ae/ea_3f	52.0	124.0
4f	2.0	6.4
Tot	59 (~2000 years)	172.5

This is about the full H20 statistics, except for aa\_2f where is  $\sim 1/2$  H20.

If this is too much, one could scale down aa\_2f and ae/ea to 1 year of H20 (but keep 4f), which gives:

	KEKcc cpu [Gs]	DST [TB]
aa_2f	1.0	8.5
ae/ea_3f	5.2	12.4
4f	2.0	6.4
Tot	8.2 (~300 years)	27.3

M.Berggren

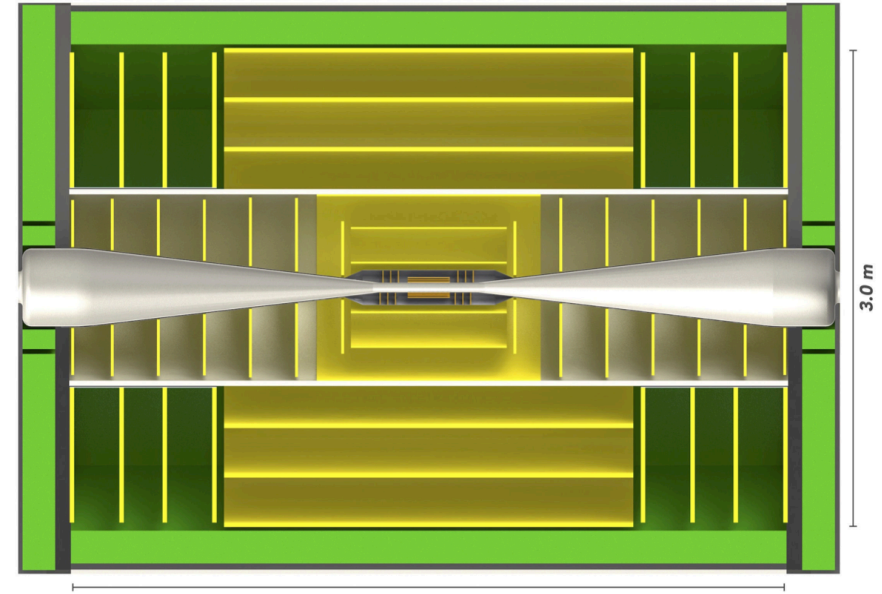


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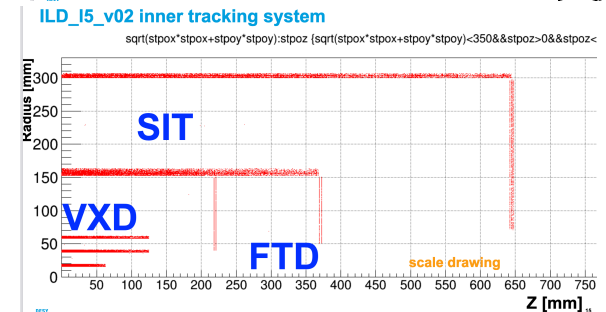
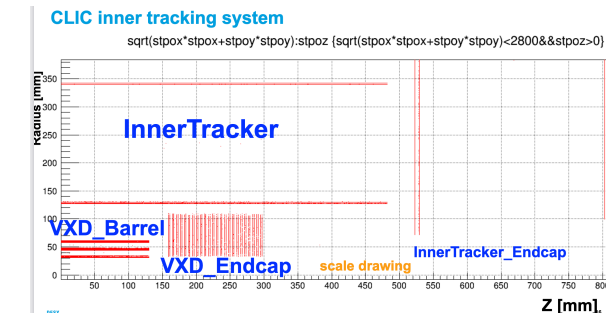
# Simulation

D.Jeans, M.Ruan

- D.Jeans has created an ILD w/ silicon tracking
- using the CLIC barrel tracker
- talked to Jan Klampka from F.Zarneckie's groups
- who is interested in getting the track reconstruction for the all-Si-ILD to work
  - based on ConformalTracking developed by CLIC



CLICdp Si-tracker layout



# Reconstruction

T.Madlener, A.Irles



- T.Madlener created cvms release if **iLCsoft & Key4hep**
  - see talk later

# Monte Carlo Production

R.Yonamine, H.Ono



- status of production:
  - 10% of Bhabha production completed
  - physics working group had checked these
    - see talk J.Kunath last meeting
- no problem found
- => production of pending 90% started