

Software Coordinators Report

F.Gaede, DESY

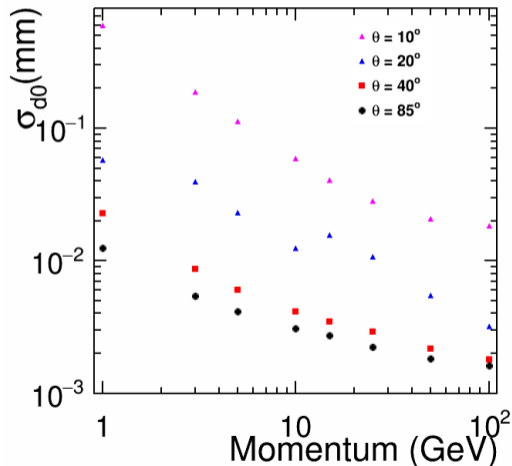
ILD SW&Ana Meeting, Jan 24, 2018

- Generator
- Reconstruction
- Monte Carlo Production

- LC Generator Group Meeting @ CERN yesterday
 - together with Whizard authors
 - MB and JT attended
- agreement to store event and run number in LCEvent header
 - need **DDSim update** to copy information into output file
- some discussion on the generator status
 - ILD wishes not easy to implement in Whizard
 - have `genStat = 5` for particles in hard interaction (matrix element)
 - working on a different solution

- observed issues in DDCellsAutomatonMV tracking:
 - used in summer test production v01-19-04
 - *degraded D0 resolution* in forward tracks
- moved back to SiliconTracking_MarlinTrk
 - used also in DBD
 - worse tracking efficiency for low-pt tracks

Impact Parameter Resolution

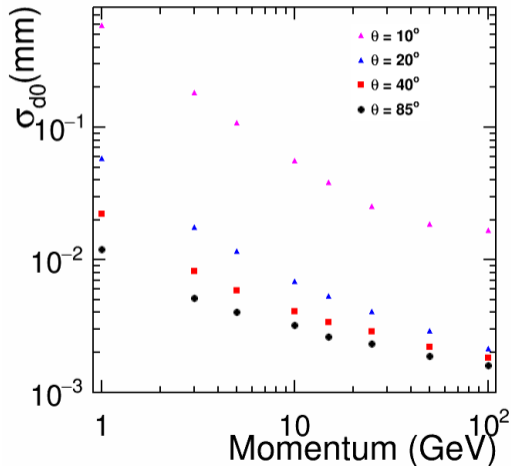


- switched back to DDCellsAutomatonMV
- modified FullLDCTracking to pick up leftover VXD hits for *incomplete* SiTracks

restore D0 resolution in forward tracks

- need further validation
- also in presence of *pair-bg*
- work in progress ...

Impact Parameter Resolution





- preparing scripts for the upcoming MC production
- need many *productions* as we have many channels
- will update resource needs for the production
 - observe rather large file sizes due to *hybrid simulation*

proposal:

- drop unneeded collections from reconstruction files. e.g.:
 - drop SDHCal hits if AHcal is used and vice versa