

Software Workshop Summary

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Workshop Topics

Cross section through our "core tools"

- Simulation: Mokka / SLIC
- Tracking: org.lcsim / MarlinTrk
- PandoraPFA
- LCFIPlus
- Code Testing: Coverity, AIDA-CDash
- Documentation Tools

Summarized Here

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- Simulation: Mokka / SLIC
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Status of Simulation Tools

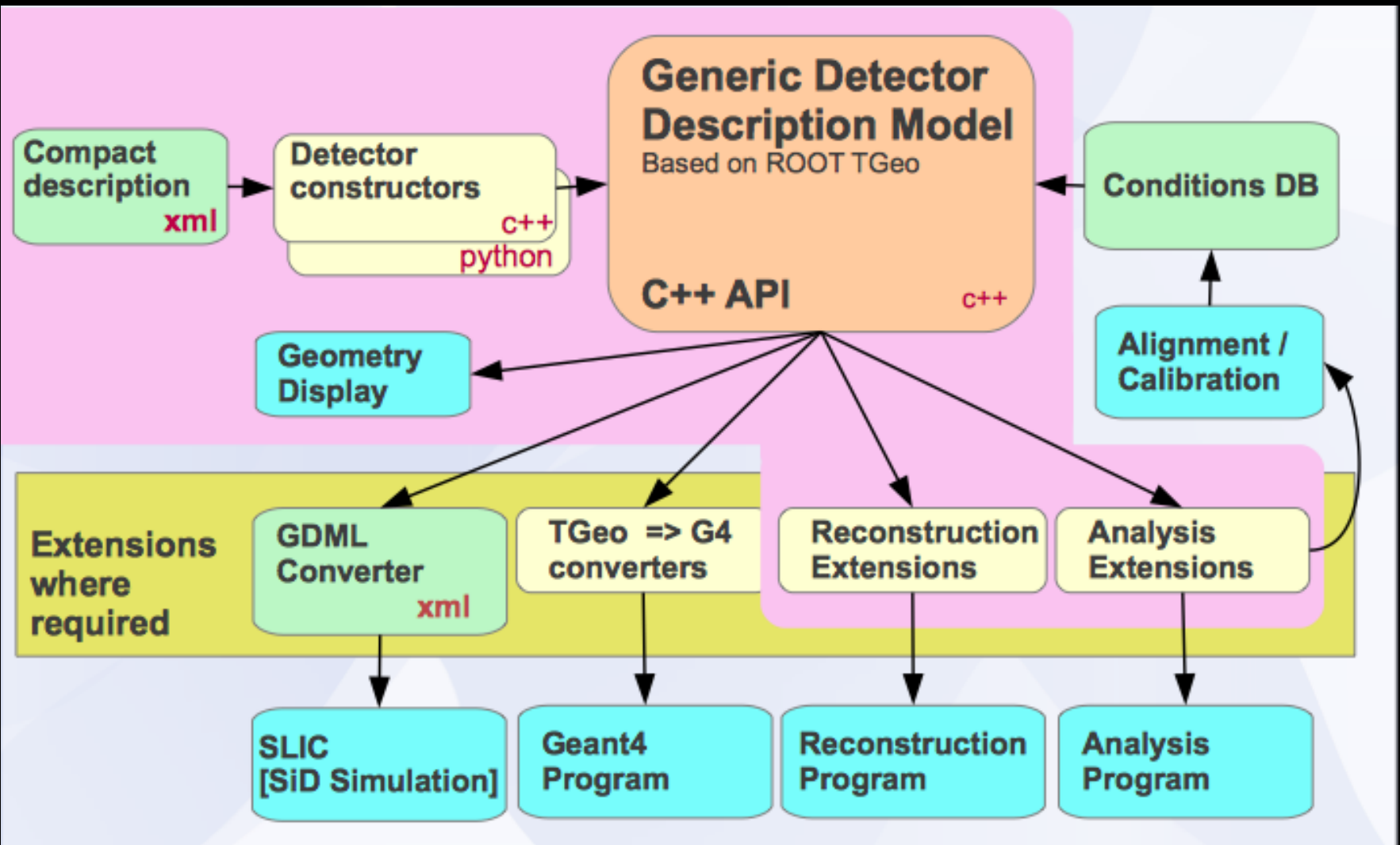
Current status:

- Support for Mokka detector models is ending
- SLIC support is continuing. Actively being used for VTX optimization studies

Effort in the AIDA WP2:

DD4Hep (P. Mato, M. Frank)

DD4Hep Overview



Going Forward

Will describe detectors in an xml format

Just contains run-time parameters

DD4Hep to convert to lcdd

- Input to SLIC simulation, output is lcio
- Currently limited to geometries and sensitive detectors as they currently exist in SLIC
 - This will be extended and opened to facilitate external contributions

Starting Point

CERN group will implement two existing sub-detectors

- To test the chain and implement possible extensions
- To create example workflows for detector groups

Detectors

- Barrel calorimeter (Christian Grefe)
- Forward calorimeter (Andre Sailer)

Grid Identities / VO membership

Collaborators are strongly encouraged to obtain a grid certificate and to register with the ILC Virtual Organization (VO)

This requires individual approval

Please introduce yourself and possibly your postdocs / students to

ilc-vo-support@desy.de

Community Tools

Documentation is easier to keep up-to-date collaboratively

- <http://forum.linearcollider.org/>
 - Starting point for questions. Others may benefit from the answers given there.
- Working group-specific portals (TWiki, ...)
 - Group-specific workflows (installing software, how to read the data, ...)
- <https://confluence.slac.stanford.edu/display/ilc/Home>
 - Documentation of Software Packages should go here
 - **Everybody** can get an account (confluence-admin@slac.stanford.edu)
 - Documentation is backed up. **Please do improve the pages.**
- <https://jira.slac.stanford.edu/secure/Dashboard.jspa>
 - Bug Database
 - Uses Confluence password