

# A silicon detector measurements DB



Progress report

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# Status



- Initial database design in 9/2009
- Refined after discussions in Vienna and at CERN
- Database now in place on Zeuthen mysql server
- Access mainly by Web GUI
  - Work on web GUI started
  - see <https://cronus-vm2.ifh.de/cecdb> (DESY computers)
- DB contents will be exported to main DB in Lyon
  - XML export, details not agreed yet
- Interest in this work by Karlsruhe, Vienna
- Several documents available, see next slide

- DB schema (sqlite3 syntax to hide mysql quirks)
  - [http://www-zeuthen.desy.de/cms/cecdb/cecdb\\_schema.sql](http://www-zeuthen.desy.de/cms/cecdb/cecdb_schema.sql)
- Proposals for measurement data format
  - <http://www-zeuthen.desy.de/cms/cecdb/FILESchema.pdf>
- and a naming format for the detector structures
  - <http://www-zeuthen.desy.de/cms/cecdb/NAMESchema.pdf>
- Design principles for the DB and the GUI
  - (talk at CERN, Nov 2009)
  - [http://www-zeuthen.desy.de/cms/cecdb/cecdb\\_cern.pdf](http://www-zeuthen.desy.de/cms/cecdb/cecdb_cern.pdf)

# Web GUI status



- Web GUI is using the latest DB scheme
  - Authentication, authorisation tested and working
  - Upload and download functionality tested and working
  - Display and modification of individual tables working (CRUD)
  - Combined display of related tables tested and for a few views done
  - Demonstrated flexibility in adding
    - New parameters for a given measurement method
    - New measurement methods

# Next steps



- Produce a more realistic Web GUI
  - Ready to use in measurement campaign
  - Should accept mass uploads
- Refine Web GUI by adding
  - Style sheets (CSS)
  - AJAX methods (fast page alterations without resending whole pages)
- Write test suite to verify correctness of software
  - Stubs for testing already present
- Volunteers?
  - Software available in (private) DESY SVN repository

# Demo



- <https://cronus-vm2.ifh.de/cecdb>
- Needs authorisation, will be updated frequently