

G4Validation: Status and plans

Geant4 Collaboration Meeting at SLAC September 19th - 23rd, 2011

Hans Wenzel

Fermilab

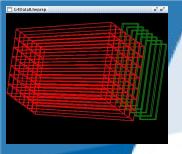


20th September 2011

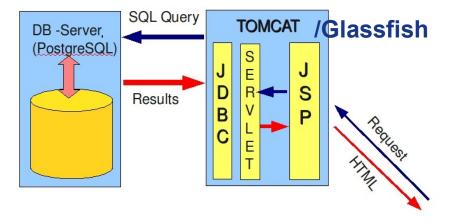
Developers:
Jennifer Karkoska
Andreas Schaelicke
Hans Wenzel
Julia Yarba

Outline:

- Introduction
- Status
- Plans

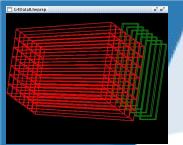


Introduction

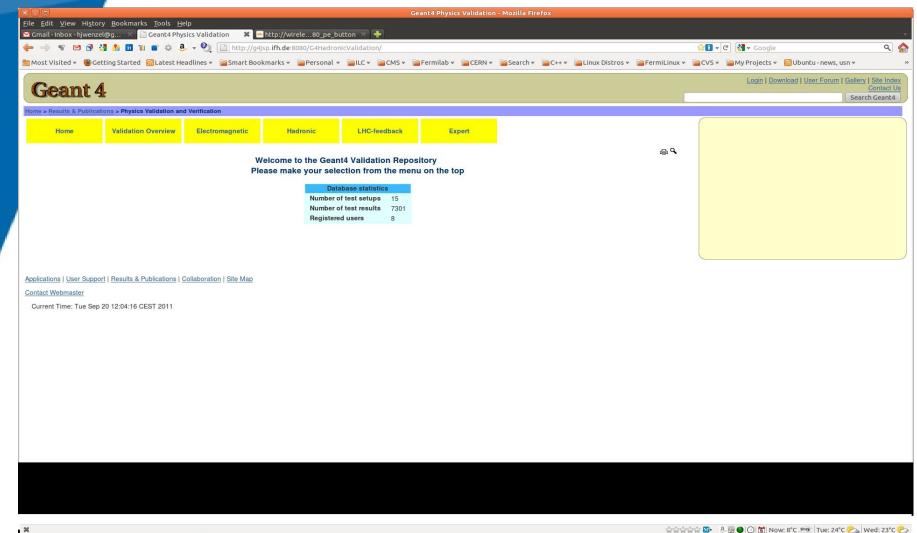


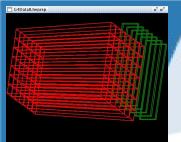
G4Validation consists of:

- database containing:
 Images, tags, descriptions and references to experimental data
- Web Application on Tomcat or glassfish:
 To display the data
 To tllow experts to upload, edit, delete
- multiple file upload Application.

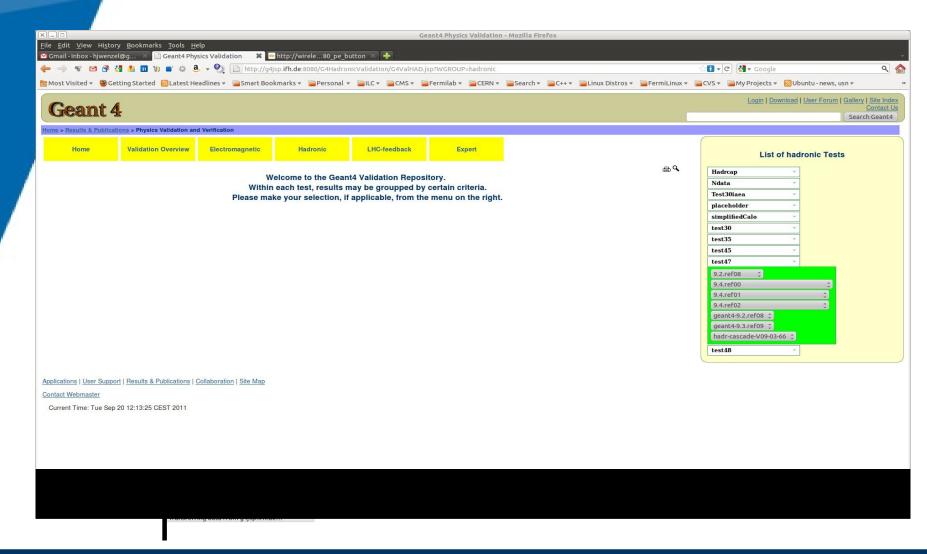


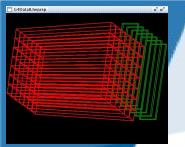
Homepage





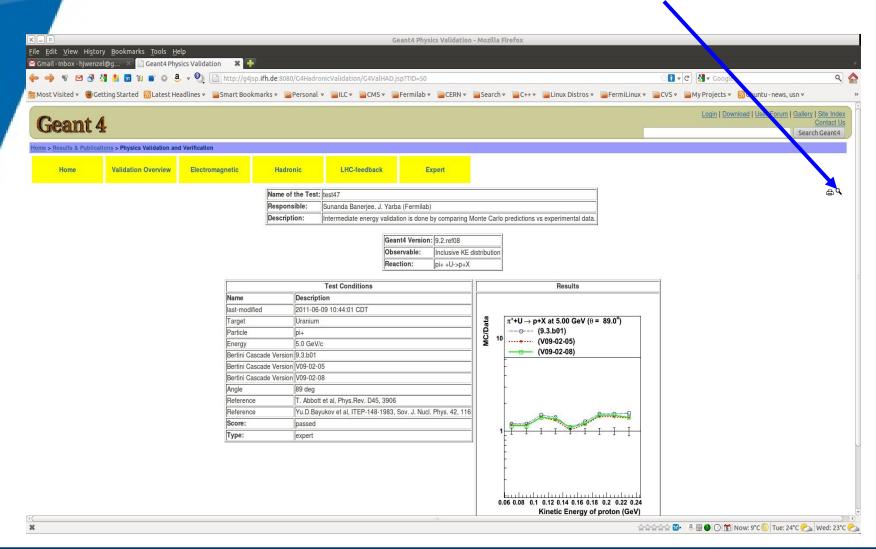
Hadronic validation

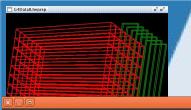




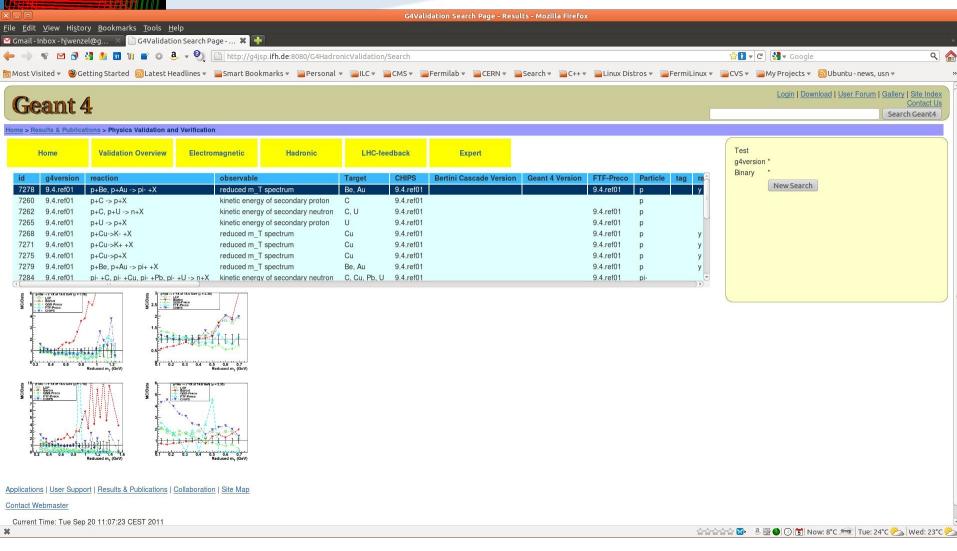
Display a test

Search Button



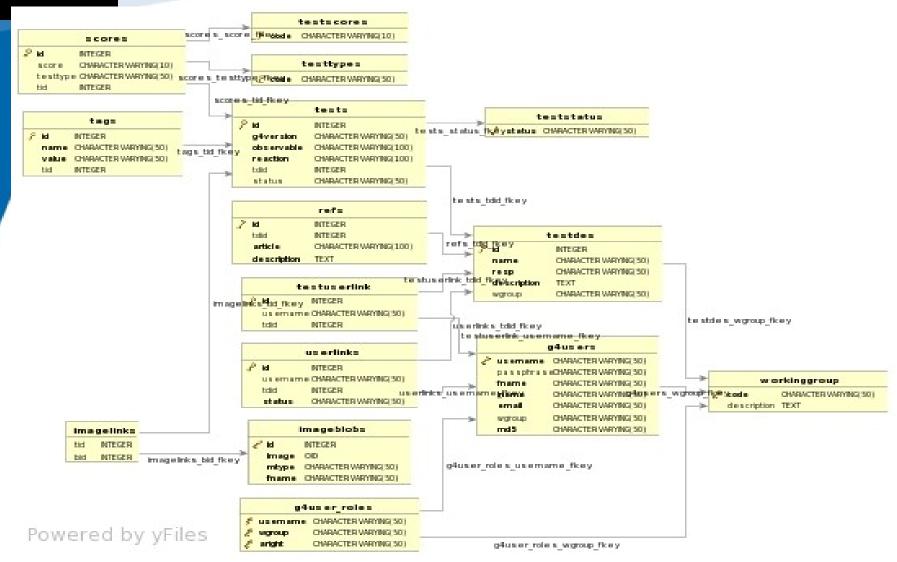


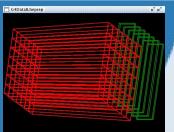
Searching



G4Dtathheprep o' o' o'

Data Base schema





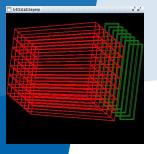
Expert page



Applications | User Support | Results & Publications | Collaboration | Site Map

Contact Webmaster

Current Time: Tue Sep 20 11:08:15 CEST 2011



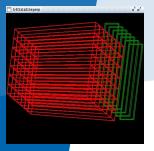
Status

In the past weeks we concentrated on cleaning up refactoring and packaging

→ this will make further development easier:

- Postgres Database and Web application are now available at Fermilab and DESY Zeuthen using different server (db and webapp) configurations:
- DESY: http://g4jsp.ifh.de:8080/G4HadronicValidation/
- <u>FNAL:</u>
 http://g4validation.fnal.gov:8080/G4HadronicValidation/
- Prototype application that shows some features that we are developing for g4validation (Summer student Jennifer Karkoska):

(zooming, better search features etc.)
http://g4validation.fnal.gov:8080/DRImageWebApp/



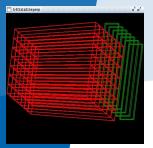
Status (cont.)

 Java Library to connect to db, JSP Web-Application, Multiple File upload java application are now clearly separated and packaged.

G4ValidationWebApp
JSP based:
Web-Application

G4ValidationUpload
Java:
multiple upload
Application

G4ValidationLib:
Java library encapsulating access to database



Plans

- Provide multiple file upload application using xml description
- Improve performance/appearance of Web Application
- Implement new feature zooming, better search features etc. see:

http://g4validation.fnal.gov:8080/DRImageWebApp/

- Import experimental data into database and create plots on the fly allow for overlays comparisons etc.
 - Database schema defined.
 - Jfreechart seems to be a good plotting tool.
- Evaluate frameworks (JSF) and different Server
 Configurations (e.g. control db access, security..)