# July 3, 2012

Presents: Andrea, Hans

**Item 1**: GRID Validation. Add to the current system a second application. Preferably a non-HEP application that should cover aspects of physics simulations not covered by the SimplifiedCalorimeter one. Initial contacts on this purpose with the Space User community established.

Todos

> Andrea will follow up on this with Giovanni Santin On a lower priority Hans will follow up the possibility to use the Crystal Calorimeter for double readout studies and continue contacts with FNAL neutrino communities

**Item 2**: Automatic testing. Extend CTest / CDash system to include automatic testing. Currently only a single test (test47) is being run regularly by the system as a "proof-of-principle". The SimplifiedCaloriemter application has also been adapted to run in ctest, but some modification to the "checkout scripts" are still missing.

Reminder

> any ctest test should complete in maximum few hours. When a testing suite takes substantially longer than this it should be re-adapted to reduce statistics or coverage.

Todos

> Andrea will coordinate with Vladimir I. to include test30 as soon as possible. Will be used to test the automatic regression package StatTesting Hans and Julia will evaluate porting a subset of test47 and test48

**Item 3**: Collaboration workshop 2012 Request a parallel session to discuss tools and technologies for physics validation (validation DB, GRID tools, ctest) Verify with Had and EM WG that specific results and discussions on physics validation are covered in respective parallel sessions Results on Item1 and Item2 should be presented to the collaboration to stimulate participation in the testing effort.

**Item 4**: AOB Organize EVO meeting on July 5th to discuss future evolution of FNAL Validation DB

# July 17, 2012

Presents: Andrea, Hans

**Item 1**: CTest/CDash update SimplifiedCalorimeter is being tested in ctest in the PhysicsChecks group. test30 tag for the PhysicsChecks group has been proposed and pending to be accepted. A first version of test48 is being prepared to be included. test47 and crystal calorimeter will follow. We are gaining enough experience with the system to propose it to the collaboration and ask for other experts (in particular from EM WG) to add tests. Hans will present these results together with the plans at the next Hadronic Working Group meeting. Discussion with EM group will follow. Todos: Hans test latest version of CMakeLists.txt with proposal of Andrea for test48. Commit code and create test. Andrea will lately add regression testing after consulting with Julia about which histograms should be tested.

**Item 2**: FNAL Validation DB Proposed to extend system to upload histograms objects and not only images. The schema of the DB should support easily this change. The file_upload application should also be easily modified to take into account this change. Finally a new web-application to display these histograms including the *overlay* of several versions of the same histograms will be developed. The best choice for the format of the histograms for the DB is XML.

After evaluating ROOT XML format as our internal format for storage in the DB, we have decided **not** to use

it. The XML files created with ROOT do not have schema and many ancillary information are added to the file that are not needed for this project. We will evaluate now the native AIDA XML format. In any case a converter from ROOT to the format of our choice will be developed.

-- AndreaDotti - 05-Jul-2012

This topic: Geant4 > PhysicsValidationMeetingsMinutes
Topic revision: r4 - 2012-07-17 - AndreaDotti