

Newsletter of the Analysis Centre in the Helmholtz Alliance “Physics at the Terascale” June 26, 2009

Introduction and News

More and more education events are being organised within the Analysis Centre. Currently we are preparing for the workshop on “Detector Understanding with First LHC data” which is starting on Monday, June 29. In addition, we are occupied with the organisation of the next big events from the Statistics Tools and PDF groups: the PDF school 2009 will be held in October at DESY / Hamburg, and the “Workshop on Advanced Methods in Statistical Data Analysis” will also take place in October in Karlsruhe, organised jointly by Karlsruhe University, Göttingen University and DESY.

In addition to these, various other events are being planned or under discussion: The potential for workshops on Scientific Computing and on Analysis Software Design are being investigated; planning for a workshop on single-top and fourth-generation-quarks analyses has started (more information in the next newsletter); and finally, the possibilities for an even better exploitation of the potential offered by the NAF for data analysis in ATLAS and CMS will be discussed in the near future.

So – stay tuned for interesting events, and if you have ideas for things that should be organised: Feel free to propose them to the Analysis Centre (anacen@desy.de).

Meetings this and next week

- 29.6. – 3.7.: Workshop on “Detector Understanding with First LHC Data” (see below for more information)

Alliance and other mailing lists

A number of mailing lists have been set up in order to facilitate the communication within the Alliance. Subscription to these mailing lists is via the DESY SYMPA web page: <https://lists.desy.de/sympa/> (You can search for single lists using the search window at the bottom of the page and then subscribe using the appearing “subscribe” button in the left column.)

In the following, the most interesting mailing lists of the Alliance and of the Analysis Centre will be shortly introduced (all mailing lists are in the DESY domain and end on “@desy.de”).

Organisation and management lists:

- hgfa-allianz...: all Alliance members (beware this is a very large list of several hundred members)
- hgfa-desy...: all particle physicists at DESY
- hgfa-fellows...: all fellows and Alliance-employed post-docs in the Alliance
- hgfa-staff...: all other scientists employed by the Alliance

- hgfa-ia...: Alliance institute Assembly (one representative from each Alliance institute)
- hgfa-mb...: Alliance Management Board members

Scientific mailing lists:

- hgfa-nuc...: NAF user Committee
- hgfa-pb-acc...: Accelerator Project Board
- hgfa-pb-ana...: Analysis Project Board
- hgfa-pb-det...: Detector Project Board
- hgfa-pb-grid...: Grid Project Board
- hgfa-mtautau...: M-tautau working group

Analysis Centre mailing lists:

- anacen...: General contact to the Analysis Centre
- anacentre-mc...: Mailing list of the MC group of the Analysis Centre
- anacentre-pdf...: Mailing list of the PDF group of the Analysis Centre
- anacentre-statistics...: Mailing list of the Statistics Tools group of the Analysis Centre

Upcoming schools and workshops

20-23 October: PDF School 2009 (DESY, Hamburg)

"The PDF school 2009 covers hard scattering reactions at colliders, both from the theoretical and the experimental side. Emphasis is put on the current information on parton distribution functions (PDFs) and their impact on predictions and measurements of cross sections at the terascale. The lectures are targeted at Ph.D. students and young postdocs.

In addition to the lectures, exercises on the usage of PDFs, PDF error evaluations and related issues will help to deepen the understanding of the topics covered in the lectures.

The final day of the school is devoted to a PDF4LHC workshop meeting in which new developments on PDFs for the Large Hadron Collider will be discussed."

For more information see the developing agenda under the URL given below or send an e-mail to anacen@desy.de.

<https://indico.desy.de/conferenceDisplay.py?confId=2008>

12-14 October: Workshop on Advanced Statistical Methods (Karlsruhe)

"Many searches for expected or unexpected new particles will be performed at the LHC.

Our workshop (which is intended for Ph.D. students and young postdocs) aims to provide help and education on some fields of statistics tools which are essential for such searches:

- separating signals and backgrounds using multivariate analysis techniques
- optimal searches, setting limits, making discoveries
- evaluating systematic errors

The workshop will consist of a mixture of lectures, interactive exercises and tutorials. It aims at Ph.D. students who have already gained some experience in statistical data analysis and are familiar with ROOT."

<https://indico.desy.de/conferenceDisplay.py?confId=1978>

29.6.-3.7. Workshop on Detector Understanding with first LHC data (DESY, Hamburg)

"From June 29 to July 3 2009, a workshop on "Detector Understanding with First LHC Data" will take place at DESY, Hamburg. The workshop is intended mainly for ATLAS and CMS Ph.D. students and aims at increasing their understanding of the reconstruction and calibration of physics objects (electrons, muons, taus, jets, missing ET, b-tagging).

The workshop will consist of lectures covering both past experience (from colliders like Tevatron or HERA) and the efforts and plans for the LHC. In addition, exercises are foreseen in which the usage and problems of the various physics objects and methods can be learned in the experiments' software environments. The workshop program is completed by a number of talks on the first 100 days of physics at Tevatron, and on physics with the first data at the LHC.

The workshop fee is 50 Euro and has to be paid in cash at the registration.

For further questions, send an email to anacen@desy.de"

http://www.terascale.de/schools_and_workshops/detector_understanding_with_first_lhc_data/