

Analysis Centre Issues

Thomas Schörner-Sadenius



Analysis Project Board

19 April 2011

ISSUES

- > Questionnaires to students / posdocs and group leaders
- > LHC Physics School 2011/12?
- > Matrix overview of Alliance activities / collection of publications etc.
- > New life for the MC / Statistics / PDF groups
- > Organisation of Analysis Working Groups (web, agenda etc.)

QUESTIONNAIRES

- > Intend to hand out INDICO-based questionnaires concerning schools, workshops, projects and view of Alliance / Analysis Centre in general.
 - To students and postdocs
 - To group leaders / professors
- > Hope to accumulate sufficiently much information to
 - give ideas for future schools and workshops.
 - get ideas for new projects interesting for the community
 - get ideas about willingness to contribute / available resources
- > Details see next page / attached document
 - So far only for students / postdocs – and not yet final.
 - Your ideas, input, feedback?

See non-final test dummy at
<http://indico.desy.de/conferenceDisplay.py?confId=4231>
(choose “Evaluate this event”)

QUESTIONNAIRES

Dummy-Umfrage (06 May 2011)

<http://indico.desy.de/confDisplayEvaluation.py/display?confId=4231>

FilterMore

Europe/BerlinEnglishLogged in as Schoerner-Sadenius, T.Logout

Evaluation for Dummy-Umfrage

Note: This survey is anonymous. Fields marked with * are mandatory.

1. Your home institute?

2. Your status?

3. Experiment / theory?

4. Which analysis-related Alliance schools did you already attend?

☐ Monte Carlo school 2008

☐ Statistics Tools school 2008

☐ PDF school 2008 (Zeuthen)

☐ CAPP school 2009 (Zeuthen)

☐ Fitting school 2009

☐ MC school 2009

☐ Detector understanding with first LHC data 2009

☐ Advanced statistical methods 2009 (Karlsruhe)

☐ PDF school 2009

☐ MC-Pad / Geant4 2010

☐ Introduction to the Terascale 2010

☐ Statistics Tools school 2010

☐ Advanced topics in software development 2010 (Dresden)

☐ Advanced matters in statistics 2010 (Goettingen)

☐ Introduction to the Terascale 2011

☐ Monte Carlo school 2011

☐ CAPP 2011 (Zeuthen)

☐ Statistics Tools 2011 (Mainz)

5. Which analysis-related Alliance workshops (not LHC-D) did you participate in?

☐ Kick-off 2007

☐ Heraeus seminar "Physics at the Terascale" 2008 (Berlin)

☐ Atlas DESY NAF and FOR Tutorial 2008

☐ Miniworkshop on Statistical Tools 2008

☐ Annual meeting 2008 (Aachen)

☐ Parton shower and resummation 2009

☐ fixed order multi-leg automatic NLO calculations 2009 (Wuppertal)

☐ VISPA workshop 2009 (Aachen)

☐ Annual meeting 2009

☐ Unfolding 2010

☐ SUSY Fit working group 2010

☐ Multiparton interactions 2010

☐ LHC Physics workshop 2010

☐ Annual meeting 2010

☐ VISPA workshop 2011 (Aachen)

☐ Top quark physics 2011 (Wuppertal)

6. Which concrete future events do you intend to attend?

☐ Geant4 training event: calorimetry (Zeuthen)

☐ SM benchmark processes at the LHC (Zeuthen)

☐ Single-top / fourth-generation quarks

☐ Heavy flavours (G. Hiller)

☐ LHC Precision Predictions for Pedestrians (Freiburg)

7. In summary - how good and helpful do you consider the Alliance schools to be?

8. In summary - how good and helpful do you consider the Alliance workshops to be?

9. Do you have suggestions for schools or workshops to be organised?

10. Any other comments concerning schools and workshops?

11. To which working groups or activities do you belong / contribute / attend?

☐ M-tau-tau working group

☐ Jet veto in VBF

☐ Neutrinos and LFV

☐ XYZ

12. Do you contribute to any other Alliance activity?

1 of 2

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Dummy-Umfrage (06 May 2011)

<http://indico.desy.de/confDisplayEvaluation.py/display?confId=4231>

13. Do you have suggestions for other activities the Alliance / Analysis Centre should take up?

14. How could you contribute to these activities?

15. Do you feel well informed about the Alliance, the Analysis Centre and its activities?

16. Should the Alliance / Analysis Centre concentrate more on ...

☐ networking, bringing people and activities together

☐ lectures and seminars

☐ hands-on tutorials

☐ tool development for community needs

☐ independent research

17. Any further comments concerning the Alliance / Analysis Centre?

submitcancel

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LHC PHYSICS SCHOOL 2011/12

> Remember: 2009: “Detector Understanding with first LHC data”

- 83 registered participants
- Understanding of reconstruction and calibration of basic physics objects in ATLAS and CMS.

PHYSICS AT THE TERA SCALE
Helmholtz Alliance

Workshop on
Detector Understanding with First LHC Data

PHYSICS AT THE TERASCALE
Helmholtz Alliance

Deutsches Elektronen-Synchrotron DESY • Forschungszentrum Karlsruhe GmbH • Max-Planck-Institut für Physik München • Rheinisch-Westfälische Technische Hochschule Aachen
• Humboldt-Universität Berlin • Ruprecht-Karls-Universität Bonn • Universität Dortmund • Technische Universität Dresden • Albert-Ludwigs-Universität
Freiburg • Justus-Liebig-Universität Gießen • Georg-August-Universität Göttingen • Universität Hamburg • Universität Heidelberg • Universität Karlsruhe • Johannes
Gutenberg-Universität Mainz • Ludwig-Maximilians-Universität München • Universität Regensburg • Universität Saarbrücken • Universität Siegen • Julius-Maximilians-Universität
Würzburg • Bergische Universität Wuppertal

**29 June - 3 July 2009,
DESY, Hamburg Site**

Topics:

- Muon ID and reconstruction
- Jets and missing transverse energy
- Tau ID and reconstruction
- Electrons and photons
- Tracking, vertexing and b-tagging
- Trigger
- Alignment and calibration
- Hands-on exercises for object reconstruction

The workshop is aimed at Ph.D. students and young postdocs who want to learn about the different physics objects, their reconstruction, access and usage (in the experiment-specific software environment), and about related problems like calibration, resolutions, alignment, etc. The workshop consists of lectures, computer exercises, and invited talks on selected subjects.

Invited talks:

- The first 100 days of Tevatron
- Minimum Bias Physics and the Underlying Event at the LHC
- Physics with first data at the LHC

Registration deadline: 31.05.2009
Please register via the school webpage.

Organising Committee:
W. Ehrenfeld (DESY), J. Haller (Hamburg), K. Hoepfner (Aachen), O. Kortner (MPI Munich), I. Melzer-Pellmann (DESY),
S. Menke (MPI Munich), A. Meyer (DESY), K. Moenig (DESY), J. Schieck (MPI Munich), Th. Schoerner-Sadenius (DESY),
M. Schumacher (Freiburg), G. Steinbrück (Hamburg)

<http://www.terascale.de/detector09>

LHC PHYSICS SCHOOL 2011/12

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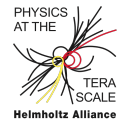
> 2010: German LHC Physics workshop

- 67 registered participants
- Focusing on physics with jets+leptons in the final state (calibration, top, SUSY).

Helmholtz Alliance

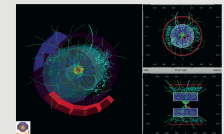
PHYSICS AT THE TERASCALE

Deutsches Elektronen-Synchrotron DESY +++ Karlsruher Institut für Technologie - Greifswalder Bereich +++ Max-Planck-Institut für Physik +++ Rheinisch-Westfälische Technische Hochschule Aachen +++ Humboldt-Universität zu Berlin +++ Rheinische Friedrich-Wilhelms-Universität Bonn +++ Technische Universität Dortmund +++ Technische Universität Dresden +++ Albert-Ludwigs-Universität Freiburg +++ Justus-Liebig-Universität Gießen +++ Georg-August-Universität Göttingen +++ Universität Hamburg +++ Ruprecht-Karls-Universität Heidelberg +++ Karlsruher Institut für Technologie - Universitätsbereich +++ Johannes Gutenberg-Universität Mainz +++ Ludwig-Maximilians-Universität München +++ Universität Regensburg +++ Universität Rostock +++ Universität Siegen +++ Julius-Maximilians-Universität Würzburg +++ Bergische Universität Wuppertal +++



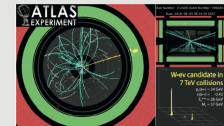
German LHC Physics Workshop 2010

27 September - 1 October 2010
DESY, Hamburg



The annual German LHC Physics Workshop brings together Ph.D. students, postdocs and senior physicists for a week of lectures, tutorials and discussions.

In 2010, the event will focus on final states with leptons and jets, which are key ingredients for many topics, including detector understanding and calibration, QCD, top physics, SUSY searches etc.



Invited speakers:

- Helmut Burkhardt (CERN):
LHC machine status and prospects
- Beate Heinemann (Berkeley):
Physics landscape
- Thomas Müller (Karlsruhe):
LHC results
- Wolfram Zeuner (CERN):
LHC detector status



Evening lecture:

Hermann-Friedrich Wagner (BMBF):
Competition for Large-scale Research Facilities
The German Infrastructure for Research in Physics and Astronomy



Registration deadline: 1 September 2010. The conference fee is 75 Euros. Please register via the school webpage.

Organising Committee: Wolfgang Ehrenfeld, Matthias Kasemann, Andreas Meyer, Thomas Schörner-Sadenius, Georg Weiglein
Contact: anacen@desy.de

<http://www.terascale.de/LHCPhysics2010>

LHC PHYSICS SCHOOL 2011/12

- > Remember: 2009: “Detector Understanding with first LHC data”
 - 83 registered participants
 - Understanding of reconstruction and calibration of basic physics objects in ATLAS and CMS.
- > 2010: German LHC Physics workshop
 - 67 registered participants
 - Focusing on physics with jets+leptons in the final state (calibration, top, SUSY).
- > General initial idea / hope: Assemble the community – make it a big event like US CMS JTERM at FNAL / LPC.
 - Also seniors
 - Intense atmosphere of discussion and learning
- > How to continue? Clear to me: Needs dedicated support from groups and group leaders, and their presence.
 - Connection to annual meeting?

OVERVIEW OF ACTIVITIES IN THE ALLIANCE

- > Initial idea: data base (mySQL) of activities, persons, knowledge and publications in the Alliance community
 - Hope: Better networking, better exploitation of synergies, more discussion
 - Problems: little feedback, loads of work
- > At the same time: no central documentation of Alliance achievements
 - Online publication list, list of talks etc.
- > What to do?
 - Revive data base?
 - Collect relevant info from institutes? Need representative / responsible person at each institute
 - Benefit?

INFO: REVIVING THE WORKING GROUPS

> There are good starting points in all groups. Examples:

- PDF: ABM and HERAPDF used more and more often – sometimes best available sets!
- MC: Alliance / DESY people centrally involved in tuning in CMS and ATLAS
- Large number of statistics projects connected
- ➔ no need to be overly modest – also suffering from too ambitious goals.

> Nevertheless room for improvement

- Try – again – to define potentially interesting projects and collaborations
- Feedback from questionnaires?
- Clear: needs commitments from all (well – more than 1 or two) partners!

> Meetings on MC and statistics tomorrow and the day after

- Collect ideas
- Raise awareness of relevant people of their responsibility ;-)
- Also define future school and workshop programme

ANALYSIS WORKING GROUPS

> Several administrative hick-ups:

- Dates not included in newsletter
- Web representation not good / complete / up to date
- Need someone to take care.

→ Wanted to unify the different activities anyhow (VTI seminar and Analysis Centre seminar? Analysis Working Groups and Analysis Centre groups etc.)

- Can volunteer to take care – but currently don't have complete overview.