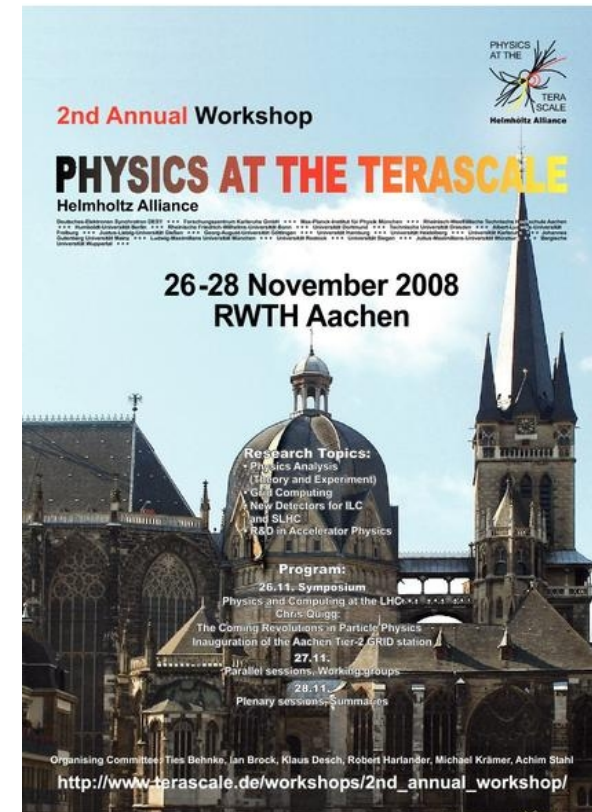


Status of the Alliance Annual Workshop 28/11/2008

Ian C. Brock



Outline

- ◆ Activities in 2008
- ◆ Working Groups
- ◆ Alliance positions
- ◆ Alliance online – Web, Wiki, Indico, News
- ◆ Plans for 2009
- ◆ Conclusions

A pleasure to see so many (young) people here!

Activities in 2008

◆ **Physics Analysis**

- ◆ Schools in 2008:
 - ◆ Monte Carlo 3/08
 - ◆ Statistics 9/08
 - ◆ PDF 11/08
- ◆ Workshops
 - ◆ Statistics 6/08
- ◆ Discussion Days
 - ◆ MC 9/08

➡ **T. Schörner-Sadenius**
talk

- ◆ Heraeus Seminar
 - ◆ Bad Honnef 4/08
- ◆ VTI Seminars
- ◆ LHC-D Workshops
 - ◆ Top 2/08
 - ◆ QCD/EW 5/08
 - ◆ Parallel sessions here

Activities in 2008

◆ **Detector**

- ◆ Karlsruhe workshop 4/08
 - ◆ Infrastructure in VLDT labs
 - ◆ Ideas for future (common) projects
- ◆ **Questionnaires on ideas/wishes distributed**
- ◆ Parallel Session here
 - ◆ In several areas, more going on with Alliance personnel/infrastructure than we knew about
 - ◆ **Group leaders – let your people know who is paying them!**

➡ **L. Feld talk**

Activities in 2008

◆ Grid

- ◆ Karlsruhe workshop 2/08
 - ◆ Alliance projects discussed
 - ◆ GridKa school 9/08
 - ◆ Alliance contributions
 - ◆ NAF tutorials (ATLAS) 5/08, 9/08
 - ◆ NAF User Committee set up
 - ◆ Representatives from ATLAS, CMS, LHCb, ILC and DESY IT
 - ◆ NAF Users Meeting here
- ➡ G. Duckeck + W. Ehrenfeld talks

Activities in 2008

- ◆ **Accelerator**
 - ◆ School 3/08
 - ◆ PhD students started work on Alliance projects
 - ◆ Parallel session here
 - ◆ Lectures in Göttingen SS08

Alliance Working Groups

- ◆ LHC-D Working Groups
 - ◆ Higgs
 - ◆ SUSY and BSM
 - ◆ Top
 - ◆ EW and QCD
 - ◆ Flavour
- ◆ All except flavour held parallel sessions here and report later
- ◆ 6 working groups founded (2 in VTI)
 - ◆ Higgs Central Jet Veto
 - ◆ Higgs with heavy flavours
 - ◆ BSM
 - ◆ $m_{\tau\tau}$
 - ◆ SUSY
 - ◆ Heavy quark production

Alliance Working Groups

◆ New Groups?

- ◆ Ideas very welcome (bottom up)
- ◆ $b + \tau$ tagging?
- ◆ Alignment?
- ◆ ...
- ◆ Contact analysis project board and/or management
- ◆ Some support for travel etc. available

◆ Criteria:

- ◆ In general between experiments and/or between theory and experiment
- ◆ Pure theory within VTI
- ◆ One experiment within FSP

LHC Collaborations Rules

- ◆ ATLAS started enforcing strict rules on what is allowed to be shown at such workshops
- ◆ 4 Higgs talks cancelled!
- ◆ 4 SUSY/BSM talks cancelled!
- ◆ Top session talks edited/censored!
- ◆ Conflicts with declared aims of Alliance to encourage discussions between experiments and theory

LHC Collaborations Rules

- ◆ Discussed in Institute Assembly yesterday
 - ◆ Should working groups discuss only concepts?
 - ◆ Can/should we make talks available via Indico?
 - ◆ What do we do about the DPG?
- ◆ No real solution yet.
- ◆ Needs discussion within (and between) the collaborations, in order to arrive at a satisfactory solution.
- ◆ If students & post-docs cannot present and discuss what they have been working on for the last 6 months, interest in meetings such as this one declines and we cannot expect to achieve a fruitful collaboration between the experiments and theory.

Young Investigator Groups

- ◆ Karlsruhe (Monte Carlo)
 - ◆ S. Gieseke as of 1/1/2008
- ◆ Dresden (Experiment)
 - ◆ A. Straessner as of 15/9/2008
- ◆ HU Berlin (Phenomenology)
 - ◆ P. Uwer as of 1/11/2008
- ◆ Wuppertal (Experiment)
 - ◆ W. Wagner as 1/12/2008
- ◆ 1 Accelerator + 1 more Phenomenology group planned

Tenure-track Positions

- ◆ Analysis Centre
 - ◆ Head – T. Schörner-Sadenius as of 1.10.2008
 - ◆ Monte Carlo – Z. Nagy as of 1.9.2008
- ◆ Wuppertal
 - ◆ M. Worek as of 1.12.2008
- ◆ Siegen
 - ◆ Not filled yet
- ◆ Recent call to see if partners have further such possibilities

Alliance Fellows

- ◆ Theory – all positions filled
 - ◆ Aachen
 - ◆ Aachen/Bonn
 - ◆ Bonn
 - ◆ Dortmund
 - ◆ Freiburg (as of 1.1.2009)
 - ◆ Hamburg
 - ◆ Karlsruhe
 - ◆ Mainz
 - ◆ Würzburg



Alliance Fellows

- ◆ Physics Analysis filled

- ◆ DESY
- ◆ Freiburg
- ◆ Hamburg
- ◆ Karlsruhe
- ◆ Mainz



- ◆ Siegen → Freiburg



- ◆ Detector filled

- ◆ Aachen
- ◆ Heidelberg



YIGs and Fellows

- ◆ First meeting of YIGs and Fellows on Wednesday
- ◆ Elected representative in Analysis Project Board – Anna Kulesza, Aachen

Grid Positions

- ◆ DESY mostly filled
- ◆ FZK filled
- ◆ Aachen filled
- ◆ Freiburg being filled
- ◆ Göttingen → DESY interviewing
- ◆ Karlsruhe filled
- ◆ München filled
- ◆ Wuppertal filled as of 1/09

Detector Positions

- ◆ Bonn
 - ◆ 3 engineers/physicists filled
- ◆ DESY
 - ◆ 2 engineers filled
 - ◆ Test-beam filled/covered
- ◆ Heidelberg
 - ◆ 2 positions still open
- ◆ Aachen, Hamburg, Gießen, Karlsruhe, Siegen filled
- ◆ Technicians mostly filled
- ◆ PhDs filled or a few postponed by 1 year

Other Positions

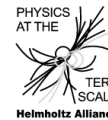
- ◆ Outreach
 - ◆ K. Voss – LHC Communicator as of 1.4.2008



- ◆ U. Bilow – Master Classes as of 11.8.2008

Just Advertised

- ◆ Statistics position in Analysis Centre
- ◆ Fellows
 - ◆ Physics Analysis
 - ◆ Aachen, München
 - ◆ Detector
 - ◆ Göttingen
- ◆ Detector
 - ◆ 2 Physicists/Engineers
 - ◆ Heidelberg
 - ◆ 1 Physicist
 - ◆ Bonn



The Strategic Helmholtz Alliance "Physics at the Terascale" (<http://www.terascale.de>) is a research network supported by the Helmholtz Association and comprises the research centres DESY and FZ Karlsruhe, 17 German universities and the Max-Planck-Institut für Physik. Within the framework of the worldwide investigation of the fundamental properties of matter using accelerators at the highest energies, the Alliance will sustainably concentrate and advance the expertise and strengths of the participating institutes.



Scientist

The Analysis Centre of the Helmholtz Alliance "Physics at the Terascale" at DESY, Hamburg site, is seeking a scientist to join the Statistics Tools group of the centre.

The Analysis Centre supports physicists at German Institutes working on analyses at ATLAS, CMS and ILIC. The centre contains three main branches: Monte Carlo Generators, Parton Distribution Functions and Statistics Tools. A major goal of the statistics tools group is to provide support and education for all kinds of statistics-related tasks and questions in high-energy physics data analysis.

The successful candidate is supposed to strengthen the activities of the group by

- contributing to the development of statistics tools,
- implementing existing tools into software frameworks like ROOT,
- taking part in the organisation of meetings, workshops and schools and
- helping to provide user support and web documentation.

The candidate is also expected to carry out research within one of the Alliance projects for about 50 % of his or her time.

The position requires

- a Ph.D. in physics,
- interest and experience in the development of statistics tools and
- programming, software maintenance and analysis experience (e.g. C++, Fortran, ROOT).

The position is initially limited until 30 June 2012, the nominal end of the Helmholtz Alliance funding period. For further information please contact Dr. Thomas Schömer-Sadenius (Thomas.Schoemer@desy.de).



GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN

Physicist

"Detector Development with the ATLAS Experiment"

The University of Göttingen offers a full-time position for a research assistant/post-doc (salary level TVL E13) beginning as soon as possible. The position is available for an initial period of two years with a possible extension by two years.

The post-doc will be member of the recently formed particle physics group to work on the ATLAS experiment at the Large Hadron Collider at CERN. The ATLAS experiment is designed to search for physics phenomena responsible for electroweak symmetry breaking and to study a variety of subjects related to physics at the TeV scale. The successful applicant is expected to participate in the supervision of students, in the start-up of the new particle physics group in Göttingen, in the research activities of the group and to play a leading role in detector development in the context of the Helmholtz Alliance, in particular in the ATLAS pixel detector upgrade.

For further information please contact Prof. Arnulf Quadt (aquadt@uni-goettingen.de).



Physicist "Physics Data Analysis with the CMS Experiment"

The applicant is expected to contribute to physics data analysis within the CMS experiment, and to the Visual Physics Analysis project being developed at the RWTH Aachen. The position is funded by the Helmholtz Alliance "Physics at the Terascale" for a period of 3.5 years.

For further information please contact Prof. Martin Erdmann (+49-241-8027317, erdmann@physik.rwth-aachen.de).



Physicist "Physics Data Analysis with the ATLAS Experiment"

The Faculty of Physics at LMU Munich has an immediate opening for a physicist on the search for signals of new physics beyond the Standard Model within the ATLAS experiment. The LMU ATLAS group is contributing to the muon spectrometer, Grid computing and the preparation of the data analysis. The appointee is expected to establish a strong research programme involving diploma and Ph.D. students with particular emphasis on searches for Higgs Bosons or supersymmetric particles and to contribute actively to a successful start-up phase of the ATLAS experiment.

The position is partially funded by the Strategic Helmholtz Alliance "Physics at the Terascale" and the salary follows the standard for public employment (TVL E13). The position is vacant and initially limited to two years with the possibility of an extension. Candidates should hold a Ph.D. in experimental particle physics.

For further information please contact Prof. Dorothee Schalle (dorothee.schalle@physik.uni-muenchen.de).



Two Physicists/Engineers

The Heidelberg ASIC Laboratory located in the Kirchhoff-Institut für Physik at the Ruprecht-Karls-Universität Heidelberg will extend its scope to support scientists and Ph.D. students in the area of analogue and mixed-signal VLSI component and system design and test. The institute has openings for two Physicists/Engineers for the design of integrated microelectronics, in particular analogue and mixed-signal circuits. An excellent knowledge of state-of-the-art design and simulation tools is required as well as experience in the design and testing of complex electronic circuits employing ASICs and FPGAs. Practical experience in electronic circuit design and construction is required. Both positions are located in the existing ASIC laboratory for microelectronics. They are immediately available and will be limited until 30 June 2012.

For further information please contact Prof. Karlheinz Meier (meierk@kip.uni-heidelberg.de).

Applications (preferably by email) including a letter of application, CV, academic record as well as a list of publications and the names of three persons who can provide further information about the candidate should be addressed to:

Prof. Ian Brock (Scientific Manager of the Helmholtz Alliance)

DESY, Notkestraße 85, 22607 Hamburg, Germany (ian.brock@desy.de).

For all positions, salary and benefits are commensurate with those of public service organisations in Germany. Handicapped persons will be given preference to other equally qualified applicants. DESY and the universities are equal opportunity, affirmative action employers and encourage applications from women.

Closing date for all applications is 31 December 2008.

Alliance Wiki is online!

The screenshot shows a Mozilla Firefox browser window displaying the main page of the Alliance Wiki. The address bar shows the URL http://www.wiki.terascale.de/index.php/Main_Page. The page features a blue header with the title "PHYSICS AT THE TERASCALE Strategic Helmholtz Alliance" and the Helmholtz Gemeinschaft logo. A navigation bar includes links like "Wiki Home", "Research Topics", "Calendar", "Workshops", "Toolbox", "Personal tools", and "Help". A search bar is located on the left. The main content area includes a "Main Page" section with a "site notice" and a "Welcome to the Terascale Alliance Wiki" message. A yellow box highlights a "Getting Started" section with a blue arrow pointing to a "Register here" button. Below this, there is a section for "The Analysis Centre at DESY" and "Imported Content LHC-D Workshop". A yellow box at the bottom right contains the text "Requests for topics/themes wiki-users@desy.de". The browser's status bar at the bottom shows the date and time, and weather information.

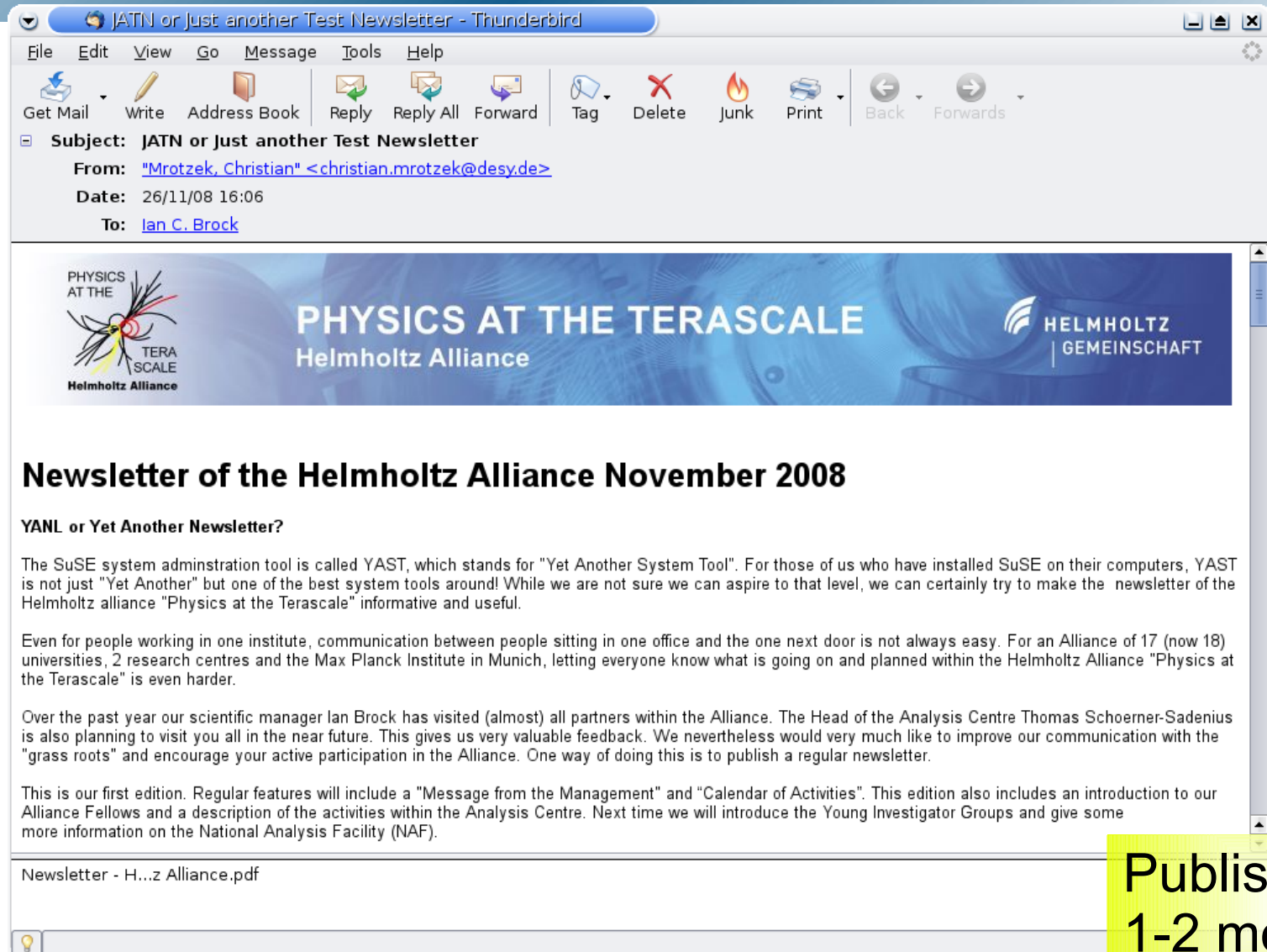
www.wiki.terascale.de

Register here

Requests for topics/themes
wiki-users@desy.de

Alliance Newsletter

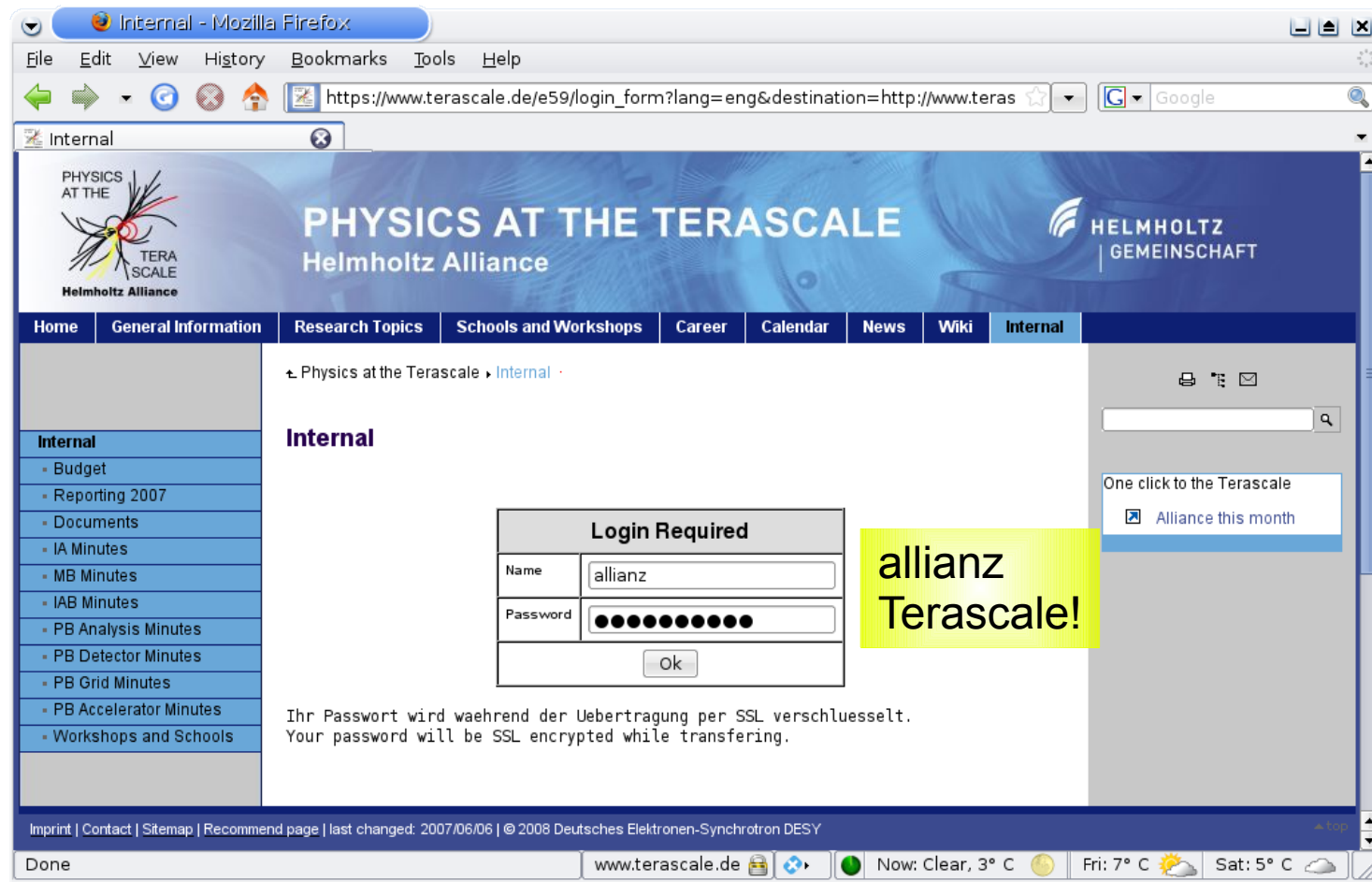
1st issue
NOW



Publish every
1-2 months

Internal Alliance Information

- ◆ Annual reports, minutes of all meetings, Alliance budget etc. accessible via Internal Section of Homepage:



Activities in 2009

◆ **Physics Analysis**

- ◆ Schools
 - ◆ Computer Algebra
29/3 – 3/4/2009
 - ◆ Fitting 30/3 – 1/4/2009
 - ◆ MC 20/4 – 24/4/2009
- ◆ Discussion days/weeks
- ◆ Many more ideas for Analysis Centre activities

➡ **T. Schörner-Sadenius**

◆ **Grid**

- ◆ Workshop Jan/Feb 09
München
- ◆ GridKa School

◆ **Detector**

- ◆ Workshop 30-31/3
Heidelberg or Bonn

◆ **Accelerator**

- ◆ School 9/09

Other Ideas?

For calendar subscribe to Alliance Indico

- <https://indico.desy.de/categoryDisplay.py/ical?categId=106>

Annual Workshop 2009

- ◆ Mid-term review of Alliance around end of 2009
- ◆ Annual workshop important to review progress
- ◆ Dates?
 - ◆ During semester (Nov 2009)
 - ◆ Outside semester (Oct 2009 / Feb 2010)
- ◆ Days?
 - ◆ Wed-Fri, Thu-Sat?
- ◆ Where?
 - ◆ DESY

KET Jahrestreffen
20/11 – 21/11/2009

ATLAS Week
1/12 – 4/12/2009

CMS Week
7/12 - 11/12/2009

Doodle for group leaders in next week

Conclusions

- ◆ Alliance complements and does not compete with FSPs ATLAS and CMS
- ◆ Filling positions somewhat slower than planned, but generally going very well
 - ◆ Grid and detector positions are hardest to fill
- ◆ Educational activities extremely successful
 - ◆ Make sure schools clearly define targeted participants
- ◆ Alliance making very good progress
 - ◆ Critical review of scientific achievements for mid-term review next year

Who's Who in the Helmholtz Alliance?

Management

Scientific Coordinators

Ties Behnke	DESY <i>ties.behnke@desy.de</i>
Peter Mättig	Wuppertal <i>peter.mattig@cern.ch</i>

Scientific Manager

Ian Brock	Bonn <i>ian.brock@desy.de</i>
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Administrative Coordinator

Karsten Büßer	DESY <i>karsten.buesser@desy.de</i>
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Secretary

Michaela Grimm	DESY <i>michaela.grimm@desy.de</i>
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Management Board

	<i>hgfa-mb@desy.de</i>
Klaus Desch	Bonn <i>desch@physik.uni-bonn.de</i>
Gregor Herten	Freiburg <i>herten@uni-freiburg.de</i>
Joachim Mnich	DESY <i>joachim.mnich@desy.de</i>
Dieter Zeppenfeld	Karlsruhe <i>dieter@particle.uni-karlsruhe.de</i>

Scientific Coordinators
Scientific Manager
Administrative Coordinator
Project Board Chairs

International Advisory Board

Kors Bos
Jim Brau
Brian Foster
Peter Jenni
Dieter Schlatter
Bernhard Spaan
James Stirling
Tejinder Virdee
Sakue Yamada

Who's Who in the Helmholtz Alliance?

Project Boards

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Michael Krämer (Theory Chair)	Aachen <i>mkraemer@physik.rwth-aachen.de</i>	Robert Klanner	Hamburg <i>robert.klanner@desy.de</i>
Klaus Mönig (Experiment Chair)	DESY <i>klaus.moenig@desy.de</i>	Karlheinz Meier	Heidelberg <i>meierk@kip.uni-heidelberg.de</i>
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Who's Who in the Helmholtz Alliance?

Institute Assembly

DESY	Ingrid Gregor Sven Moch	FZK	Andreas Heiss Holger Marten
Aachen	Michael Krämer Achim Stahl	Heidelberg	Karlheinz Meier Hans-Christian Schultz-Coulon
Berlin	Thomas Lohse Peter Uwer	Karlsruhe	Thomas Müller Dieter Zeppenfeld
Bonn	Klaus Desch Herbi Dreiner	Mainz	Stefan Tapprogge Stefan Weinzierl
Dortmund	Claus Gößling Gudrun Hiller	München	Guenter Duckeck Dorothee Schaile
Dresden	Michael Kobel Dominik Stöckinger	Rostock	Henning Schröder Roland Waldi
Freiburg	Gregor Herten Jürgen Reuter	Siegen	Wolfgang Kilian Ivor Fleck
Giessen	Michael Düren Hasko Stenzel	Würzburg	Werner Porod Thomas Trefzger
Göttingen	Markus Klute Arnulf Quadt	Wuppertal	Robert Harlander Christian Zeitnitz
Hamburg	Robert Klanner Bernd Kniehl	Regensburg	Vladimir Braun
MPI München	Siggi Bethke Frank Simon		

Young Investigator Groups

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Wolfgang Wagner	Wuppertal	wagner@ekp.uni-karlsruhe.de

Fellows

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Detector

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