

**Kick-off Workshop**

**PHYSICS AT THE TERASCALE**  
Strategic Helmholtz Alliance

**3-5 December 2007, DESY**

**Research Topics:**

- Physics Analysis (Theory and Experiment)
- Grid Computing
- New Detectors for ILC and SLHC
- R&D in Accelerator Physics

**Invited Speakers:**

Roger Bailey	Joe Incandella
Sally Dawson	Eric Laethem
Angar Denner	Tom LeCompte
Albert DeRoock	Giacomo Polesello
Brian Foster	Peter Richardson
Nigel Glover	Les Robertson
JoAnne Hewitt	Oggi Roloff
Ian Macdonald	Stephan Wollenzell

Organising Committee: Herbert Doener, Henner Jung, Sabot Mizoe-Pukhov, Ansil Qureshi, Achim Stahl  
<http://www.terascale.de/hgfa2007>

# Status of the Alliance Annual Workshop 13/11/2009

Ian C. Brock

**2nd Annual Workshop**

**PHYSICS AT THE TERASCALE**  
Helmholtz Alliance

**26-28 November 2008  
RWTH Aachen**

**Research Topics:**

- Physics Analysis (Theory and Experiment)
- Grid Computing
- New Detectors for ILC and SLHC
- R&D in Accelerator Physics

**Program:**

- 26.11: Symposium  
Physics and Computing at the LHC
- 27.11: Grid Computing  
The Coming Revolutions in Particle Physics  
Inauguration of the Aachen Tristram GRID station
- 27.11: Parallel sessions/Workshops
- 28.11: Plenary sessions/Conferences

Organising Committee: Ties Behnke, Ian Brock, Klaus Dieck, Robert Harlander, Michael Kramer, Achim Stahl  
[http://www.terascale.de/workshops/2nd\\_annual\\_workshop/](http://www.terascale.de/workshops/2nd_annual_workshop/)

Helmholtz Alliance

**PHYSICS AT THE TERASCALE**

PHYSICS AT THE TERASCALE  
Helmholtz Alliance

Deutsches Elektronen-Synchrotron DESY ••• Forschungszentrum Karlsruhe GmbH ••• Max-Planck-Institut für Physik München ••• Rheinisch-Westfälische Technische Hochschule Aachen  
••• Universität Bonn ••• Rheinische Friedrich-Wilhelms-Universität Bonn ••• Universität Dortmund ••• Technische Universität Dresden ••• Albert-Ludwigs-Universität  
Freiburg ••• Friedrich-Schiller-Universität Göttingen ••• Georg-August-Universität Göttingen ••• Universität Hamburg ••• Universität Heidelberg ••• Universität Karlsruhe ••• Johannes  
Kepler Universität Linz ••• Ludwig-Maximilians-Universität München ••• Universität München ••• Universität Rostock ••• Universität Siegen ••• Johann-Wolfgang-Goethe-Universität  
Wien ••• Bergische Universität Wuppertal •••

**3rd Annual Workshop**

**11 - 13 November 2009  
DESY, Hamburg Site**

**Program:**

- Physics Analysis:  
Theory and Experiment
- Detector Development
- R&D in Accelerator Physics
- Grid Computing
- LHC-D Working Group Meetings

Organising Committee:  
Olaf Behnke, Ties Behnke, Ian Brock, Michaela Grimm, Wolfgang Heitl,  
Albert Knudson, Michael Kramer, Thomas Schömer-Sadenius,  
Arno Strassner, Marc Wenskat

<http://www.terascale.de/alliance2009>

# Outline

- ◆ Activities in 2009
- ◆ Alliance positions
- ◆ Alliance mid-term review
- ◆ Alliance online – Web, Wiki, Indico, News
- ◆ Some thoughts
- ◆ Conclusions

A pleasure to see so many (young) people here!  
Also many faces I do not know!

# Activities in 2009

- ◆ Schools:
  - ◆ Fitting 03/09
  - ◆ CAPP 03/09
  - ◆ Monte Carlo 04/09
  - ◆ GridKa 09/09
  - ◆ Accelerator 09/09
  - ◆ PDF 10/09
  - ◆ Advanced Statistics  
10/09
- ◆ Discussion days/weeks
- ◆ VTI seminars
- ◆ LHC-D workshops
  - ◆ Parallel sessions here
- ◆ Research topics
  - ◆ Parallel sessions here
- ◆ Grid 2/09
- ◆ dCache 04/09
- ◆ Detectors 04/09
- ◆ Parton showers / NLO  
05-06/09
- ◆ LHC detector  
understanding 06/09

# Alliance Working Groups

- ◆ LHC-D Working Groups
  - ◆ Higgs
  - ◆ SUSY and BSM
  - ◆ Top
  - ◆ EW and QCD
  - ◆ Flavour
- ◆ 3 possible new working groups being discussed:
  - ◆ Single top & 4<sup>th</sup> generation
  - ◆ VISPA
  - ◆ Neutrino masses and LFV at LHC

For calendar subscribe to Alliance Indico

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

# Alliance Working Groups

## ◆ **New Groups?**

- ◆ 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 and CMS started enforcing strict rules on what is allowed to be shown at such workshops
- ◆ Talks have to be prepared well in advanced so they can be approved
- ◆ In ATLAS only PhD students are allowed to show “Work in Progress”
- ◆ Procedure is cumbersome, but seems to work OK (at least for PhD students)

# Positions

- ◆ Siegen theory position filled – T. Huber
- ◆ Mainz position filled – C. Schmitt
- ◆ Accelerator YIG in Hamburg
  - ◆ Short-list exists
- ◆ Last 3 fellow positions filled
- ◆ DESY Analysis Centre positions
  - ◆ G. Flucke (statistics)
  - ◆ A. Knutsson (Monte Carlo)

# Management Changes

- ◆ Search committee:
  - ◆ FSP chairs, T. Behnke, W. Hollik
- ◆ Scientific Manager
  - ◆ C. Zeitnitz nominated – IA election next week
- ◆ Scientific Coordinator
  - ◆ P. Mättig is stepping down
  - ◆ Proposal and election in IA soon
- ◆ Project Boards
  - ◆ Aim for ~50% continuity
  - ◆ Keep balance between ATLAS/CMS/ILC/Theory ...
  - ◆ Present proposal to IA soon



# Mid-term Review

- ◆ 31/11/2009 12:00 – 01/12/2009 17:30
- ◆ Plays an important role in developing ideas for Alliance funding beyond 2012
- ◆ Timetable in Indico:
  - ◆ <https://indico.desy.de/conferenceDisplay.py?confId=2348>
  - ◆ Usual password!

# Mid-term Review Panel

## ◆ Peers

- ◆ Jos Engelen
- ◆ Eric Laenen (NIKHEF)
- ◆ Niel Geddes (RAL)
- ◆ Terry Wyatt (Manchester)
- ◆ Lyndon Evans (CERN)
- ◆ Gino Isidori (INFN)
- ◆ Peter Jenni (CERN)
- ◆ Eberhard Jaeschke  
(Helmholtz-Zentrum Berlin)

## ◆ Other delegates

- ◆ Jürgen Mlynek (HGF)
- ◆ Rolf Zettl (HGF)
- ◆ Horst Stöcker (HGF)
- ◆ Stephanie Dittmer (HGF)
- ◆ Ricarda Opitz (HGF)
- ◆ Andreas Schulze (HGF)
- ◆ Armin Cremers (Bonn)
- ◆ *B. Vierkorn-Rudolf (BMBF)*
- ◆ *R. Greve (Hamburg)*
- ◆ *M. Ganß (GKSS, Geesthacht)*

# Mid-term Review

- ◆ Alliance presence (Monday):
  - ◆ Lunch: ~10 Alliance members
  - ◆ Presentations: All attending Alliance members (40-60)
  - ◆ Poster session: All attending Alliance members (40-60)
- ◆ Alliance presence (Tuesday):
  - ◆ Discussion sessions with referees:
    - ◆ Coordinators, manager, project boards (12-16)
  - ◆ Clarification of remaining questions:
    - ◆ Coordinators, manager, project board chairs (8)
  - ◆ Review results
    - ◆ Coordinators, manager (4)

# Mid-term Review

- ◆ Talks:
  - ◆ 40' P. Mättig (Wuppertal) – Scientific Coordinator  
The Helmholtz Alliance “Physics at the Terascale” – scientific case, status and successes
  - ◆ 15' P. Uwer (HU Berlin) – Young Investigator Group Head  
Viewpoint of the young investigators
  - ◆ 15' A. Frey (Göttingen)  
Role and meaning of the Alliance for the universities
  - ◆ 15' I. Gregor (DESY)  
Role and meaning of the Alliance for Helmholtz Centres
  - ◆ 30' T. Behnke (DESY) – Scientific Coordinator  
Perspectives of the Alliance

# Mid-term Review

- ◆ Posters:
  - ◆ Research topics:
    - ◆ Analysis: 4
    - ◆ Grid: 4-5
    - ◆ Detector: 5-6
    - ◆ Accelerator: 3-4
  - ◆ Backbone: 4
  - ◆ YIGs: 4
  - ◆ Fellows ~20
  - ◆ 1<sup>st</sup> version 22/11/2009
  - ◆ Final version 24/11/2009

# Alliance Wiki is still online!

Main Page - Wofwiki - Physics at the Terascale - Mozilla Firefox

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http://www.wiki.terascale.de/index.php/Main\_Page

**www.wiki.terascale.de**

PHYSICS AT THE TERA SCALE  
Strategic Helmholtz Alliance

HELMHOLTZ GEMEINSCHAFT

Wiki Home | Research Topics | Calendar | Workshops | Toolbox | Personal tools | Help

Page Discussion View source History Upload file Permanent link

From Wofwiki

## Main Page

site notice:

### Welcome to the Terascale Alliance Wiki

This wiki is meant to collect and contain information pertaining to the activities and topics covered by the Terascale Alliance, and to enable the community to communicate and create the content collaboratively.

Getting Started

Until further notice, everyone can participate after creating an account.

To practice editing use the [Sandbox](#).

For questions, use the mailing list [wiki-users@desy.de](mailto:wiki-users@desy.de).

**Register here**

### The Analysis Centre at DESY

General information on the Analysis Centre can be found on the [Terascale web pages](#). The Analysis Centre is currently structured into three groups:

- [Monte Carlo Generators](#)
- [Statistical Tools](#)
- [Parton Distribution Functions](#)
- [Collaborative Tools](#)

Please refer to the WIKI pages of these groups for relevant information.

### Imported Content LHC-D Workshop

- [LHC-D Workshop](#)
- [ILC](#)

Done

Now: Mostly Cloudy, 4° C   Fri: 7° C   Sat: 5° C

# Alliance Newsletter

4<sup>th</sup> issue  
next week

JATN or Just another Test Newsletter - Thunderbird

File Edit View Go Message Tools Help

Get Mail Write Address Book Reply Reply All Forward Tag Delete Junk Print Back Forwards

Subject: JATN or Just another Test Newsletter

From: "Mrotzek, Christian" <christian.mrotzek@desy.de>

Date: 26/11/08 16:06

To: [Ian C. Brock](#)

PHYSICS AT THE TERASCALE Helmholtz Alliance

HELMHOLTZ GEMEINSCHAFT

## Newsletter of the Helmholtz Alliance November 2008

### YANL or Yet Another Newsletter?

The SuSE system administration tool is called YAST, which stands for "Yet Another System Tool". For those of us who have installed SuSE on their computers, YAST is not just "Yet Another" but one of the best system tools around! While we are not sure we can aspire to that level, we can certainly try to make the newsletter of the Helmholtz alliance "Physics at the Terascale" informative and useful.

Even for people working in one institute, communication between people sitting in one office and the one next door is not always easy. For an Alliance of 17 (now 18) universities, 2 research centres and the Max Planck Institute in Munich, letting everyone know what is going on and planned within the Helmholtz Alliance "Physics at the Terascale" is even harder.

Over the past year our scientific manager Ian Brock has visited (almost) all partners within the Alliance. The Head of the Analysis Centre Thomas Schoerner-Sadenius is also planning to visit you all in the near future. This gives us very valuable feedback. We nevertheless would very much like to improve our communication with the "grass roots" and encourage your active participation in the Alliance. One way of doing this is to publish a regular newsletter.

This is our first edition. Regular features will include a "Message from the Management" and "Calendar of Activities". This edition also includes an introduction to our Alliance Fellows and a description of the activities within the Analysis Centre. Next time we will introduce the Young Investigator Groups and give some more information on the National Analysis Facility (NAF).

Newsletter - H...z Alliance.pdf

Publish every  
2-3 months

# Internal Alliance Information

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

Internal - Mozilla Firefox

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https://www.terascale.de/e59/login\_form?lang=eng&destination=http://www.teras

Internal

PHYSICS AT THE TERA SCALE  
Helmholtz Alliance

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Home General Information Research Topics Schools and Workshops Career Calendar News Wiki Internal

← Physics at the Terascale → Internal

**Internal**

- Internal
  - Budget
  - Reporting 2007
  - Documents
  - IA Minutes
  - MB Minutes
  - IAB Minutes
  - PB Analysis Minutes
  - PB Detector Minutes
  - PB Grid Minutes
  - PB Accelerator Minutes
  - Workshops and Schools

**Login Required**

Name:

Password:

Ok

Ihr Passwort wird waehrend der Uebertragung per SSL verschluesselt.  
Your password will be SSL encrypted while transferring.

allianz Terascale!

Imprint | Contact | Sitemap | Recommend page | last changed: 2007/06/06 | © 2008 Deutsches Elektronen-Synchrotron DESY

Done www.terascale.de Now: Clear, 3° C Fri: 7° C Sat: 5° C



# (How) Does the Alliance Work?

- ◆ UK system – 40% of vote sufficient for a massive majority
- ◆ US system – change direction every 2 years
- ◆ French system – very centralised, Paris decides
- ◆ German system – try to get 16 states to agree on something

# (How) Does the Alliance Work?

- ◆ Although management (can) change after 2 years, try to maintain continuity
- ◆ Try not to emulate French or UK systems
- ◆ In general, Alliance is not so different from German government system
  - ◆ Requires consensus between the partners
  - ◆ Maybe not the most efficient – means work!
  - ◆ Communication between partners is essential
  - ◆ Best way of keeping everyone in the boat
- ◆ Ensure that all Alliance partners benefit from it

# Conclusions

- ◆ Alliance complements and does not compete with FSPs ATLAS and CMS
- ◆ Almost all positions now filled
- ◆ Infrastructure (Tier-2, NAF, detector development...) is set up and being used
- ◆ Educational activities continue to be extremely successful
- ◆ Mechanism for “unused funds” implemented
- ◆ Mid-term review only 2 weeks away
- ◆ Managing the Alliance is fun, challenging and a lot of work!

## Who's Who in the Helmholtz Alliance?

### Management

#### Scientific Coordinators

Ties Behnke  
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Peter Mättig  
Wuppertal  
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#### Scientific Manager

Ian Brock  
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#### Administrative Coordinator

Karsten Büßer  
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#### Secretary

Michaela Grimm  
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#### Management Board

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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

#### Analysis Centre

Thomas Schörner-Sadenius  
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#### NAF

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Wolfgang Ehrenfeld  
(NAF Users Committee)  
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## Who's Who in the Helmholtz Alliance?

### Project Boards

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## Who's Who in the Helmholtz Alliance?

### Institute Assembly

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Aachen	Michael Krämer Achim Stahl	Heidelberg	Karlheinz Meier Andre Schöning
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 Duceck Dorothee Schaile
Dresden	Michael Kobel Dominik Stöckinger	Rostock	Henning Schröder Roland Waldi
Freiburg	Markus Schumacher Jürgen Reuter	Siegen	Wolfgang Kilian Ivor Fleck
Giessen	Michael Düren Hasko Stenzel	Würzburg	Werner Porod Thomas Trefzger
Göttingen	Ariane Frey 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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**Fellows**

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Barbara Jaeger	Würzburg	bjaeger@physik.uni-wuezburg.de

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**Experiment**

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Andrei Khomich	Heidelberg	khomich@kip.uni-heidelberg.de

# Annual Workshop 2010

- ◆ Annual workshop important to review progress
- ◆ Dates?
  - ◆ During semester (Nov 2010)
  - ◆ Outside semester (Oct 2010)
- ◆ Days?
  - ◆ Wed-Fri
- ◆ 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 in December