Detector Understanding

… with First LHC Data

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(for the Analysis Centre)

DESY Hamburg
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HELMHOLTZ GEMEINSCHAFT

PHYSICS AT THE TERA SCALE
Helmholtz Alliance

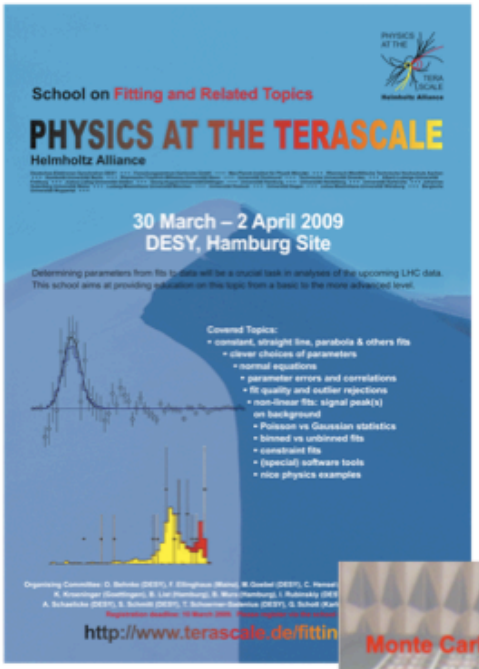
DESY

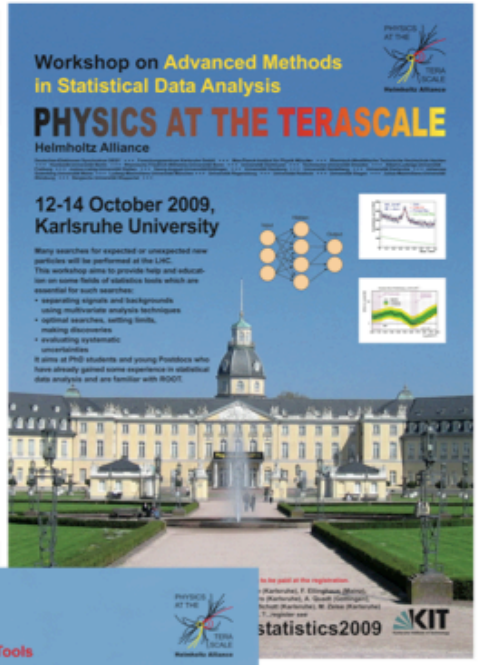
WELCOME …

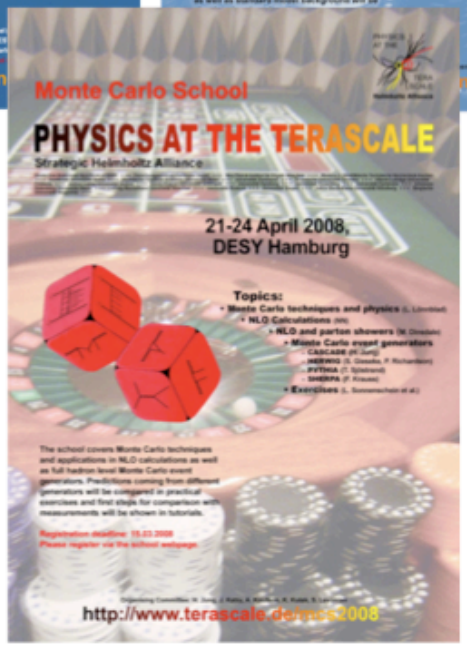
… to the workshop on “Detector Understanding with First LHC Data”!

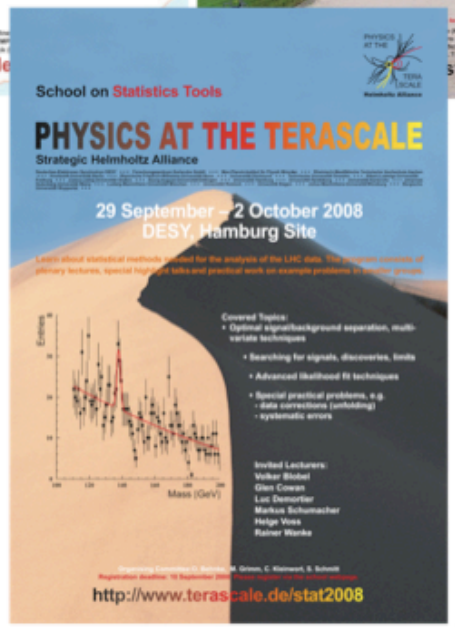
- Make everybody familiar with access to and handling of physics objects in the experiment-specific software environment.
- Learn about the connected problems (efficiencies, resolutions, uncertainties, etc.)
- Get a feeling for questions that have to be answered with first LHC data.
- Opportunity to ask questions you always wanted to ask but never dared or never found the right person to address.
- Get to know more people in similar situations
  → facilitate building of networks across the Alliance.

SCHOOLS AND WORKSHOPS









THANK YOU!

- To the many people who helped to put this school in place.
- To the organisation: M. Grimm, G. Steinbrück, W. Ehrenfeld, all the NAF staff, DESY IT and technicians, UHH IT, …
- To the lecturers!
- To the tutors!
- … and, last but not least, to the Alliance for their financial support, and to DESY for hosting the event.

TIMETABLE

	Monday 29 June 2009	Tuesday 30 June 2009	Wednesday 01 July 2009	Thursday 02 July 2009	Friday 03 July 2009
AM	12:30 Lunch and registration(Registration in building 61)	09:00 Muon Detectors in ATLAS and CMS and Muon ID - Alan Poppleton (Lecture Hall building 61) 09:45 Muon alignment in ATLAS and CMS - Pablo Martinez (Lecture Hall building 61) 10:30 --- Coffee --- 11:00 Jets and ETmiss - Peter Loch (Lecture Hall building 61) 12:30 --- Lunch ---	09:00 Tracking Detectors - Katja Klein (*RWTH Aachen*) (Lecture Hall building 61) 09:40 Tracking + Vertexing (1) - Wolfgang Liebig (Lecture Hall building 61) 10:20 --- Coffee break --- 10:40 Tracking + Vertexing (2) - Wolfgang Liebig (Lecture Hall building 61) 11:20 B Tagging - Christophe Saout (Lecture Hall building 61) 12:30 --- Lunch ---	09:00 Electrons and photons - Dirk Zerwas (Lecture Hall building 61) 10:30 --- Coffee --- 11:00 Triggering at the LHC - Rainer Stamen (Lecture Hall building 61) 12:00 --- Lunch ---	08:35 Minimum Bias Physics at the LHC - Arthur Moraes (Lecture Hall building 61) 09:35 --- Coffee --- 10:05 Physics with first data at the LHC - Stefan Tapprogge (*Johannes Gutenberg-Universität Mainz*) (Lecture Hall building 61) 11:05 Workshop Farewell - Thomas Schoerner-Sadenius (*DESY*) (Lecture Hall building 61)
PM	14:00 Introduction to the workshop - Thomas Schoerner-Sadenius (*DESY*) (Lecture Hall building 61) 14:30 The first 100 days of the Tevatron - Wolfgang Wagner (*Karlsruher Institut für Technologie (KIT)*) (Lecture Hall building 61) 15:30 --- Coffee --- 16:00 Computer: Getting started (CMS) - Isabell-A. Melzer-Pellmann (*DESY*) (Building 68/125) 16:00 Computer: Getting started (ATLAS) - Wolfgang Ehrenfeld (*DESY*) (28 (Flash hall)) 18:00 --- Welcome Reception ---	14:00 Tutorial: Muons (CMS) - Riccardo Bellan (68/125) 14:00 Tutorial: Muons (ATLAS) - Niels van Eldik (28 (Flash hall)) TWIKI 15:30 --- Coffee --- 16:00 Tutorial: Jets and ETmiss (ATLAS) - Sven Menke (28 (Flash hall)) TWIKI 16:00 Tutorial: Jets and ETmiss (CMS) - Isabell-A. Melzer-Pellmann (*DESY*) Benedikt Hegner (*DESY*) (68/125)	14:00 Tutorial: Tracking 1 (ATLAS) - Wolfgang Liebig (28 (Flash hall)) TWIKI 14:00 Tutorial: Tracking 1 (CMS) - Christophe Saout (68/125) 15:30 Tutorial: Tracking 2 (CMS) - Christophe Saout (68/125) 15:30 Tutorial: Tracking 2 (ATLAS) - Wolfgang Liebig (28 (Flash hall)) 16:30 --- Coffee --- 17:00 Tau ID - Stan Lai (Lecture Hall building 61)	13:00 Tutorial: electrons, photons (ATLAS) - Jochen Hartert (28 (Flash hall)) TWIKI 13:00 Tutorial: electrons, photons (CMS) - Roger Wolf (*CMS Univ. Hamburg*) (68/125) 14:45 --- Coffee --- 15:05 Tutorial: Tau (ATLAS) - Bjoern Gosdzik (28 (Flash hall)) TWIKI 15:05 Tutorial: Tau (CMS) - Christian Veelken (68/125) 16:35 Tutorial: Trigger (ATLAS) - Joerg Stelzer (28 (Flash hall)) TWIKI 16:35 Tutorial: Trigger (CMS) - Volker Adler (*Vrije Universiteit Brussel (VUB)*) (68/125) 19:30 **School Dinner** - Thomas Schoerner-Sadenius (*DESY*) (until 22:00)	

ADDITIONAL INFORMATION

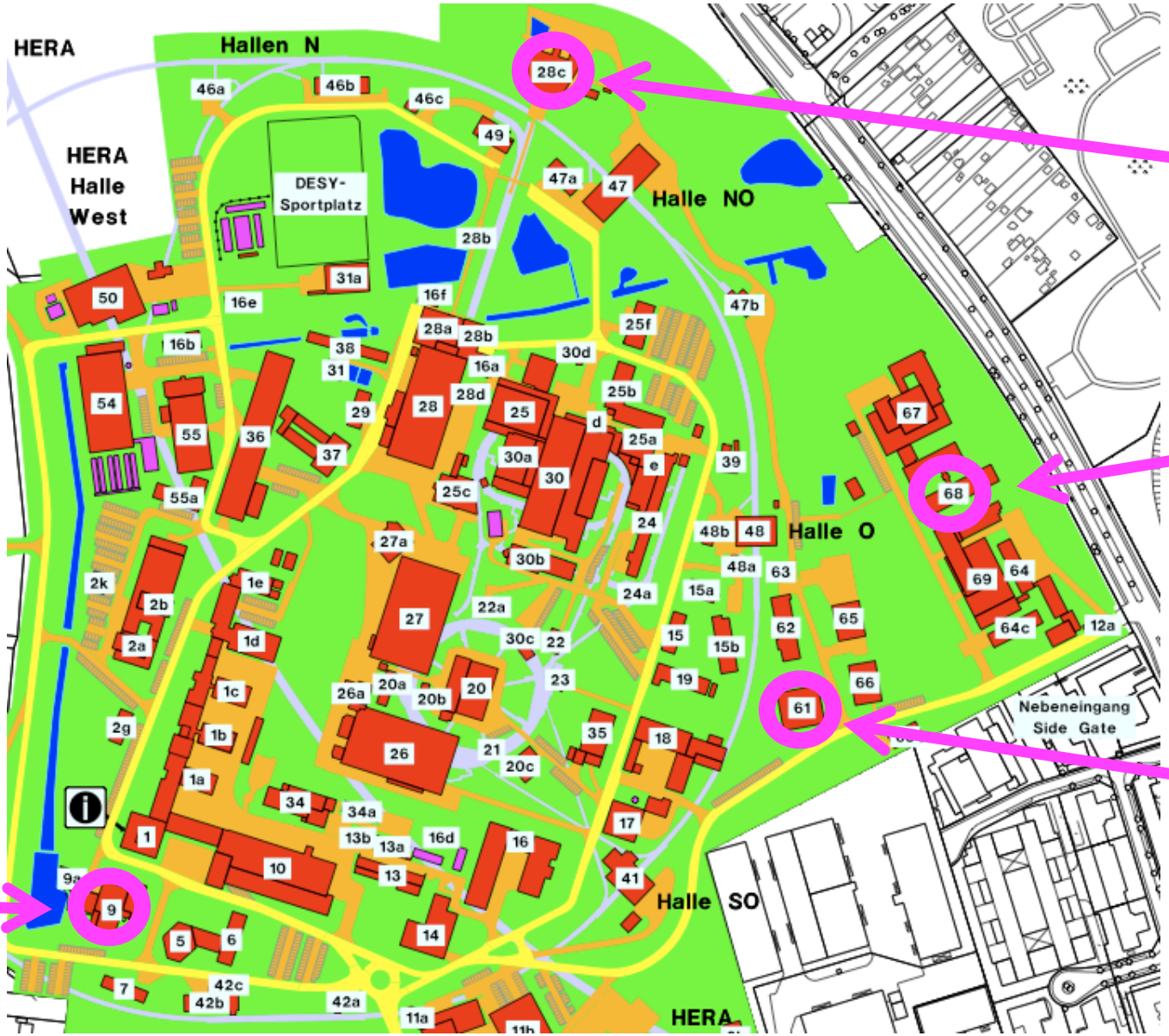
- WLAN: SSID detector09, password DEtector!2009!?
- Tonight: Welcome reception in DESY canteen appendix (start around 18:30 p.m.).
- Thursday night: School Dinner in DESY canteen appendix (start around 18:00 p.m.).
- In case of questions or problems: Please ask any of the organisers or tutors – they will point you to the correct person.
- Feedback questionnaires will be handed out on Friday morning. Please return them to the organisers – your input is important to us!

TUTORIALS

- A big adventure!
- CMS: 68 / 125 (map)
- ATLAS: SR 28 (map)
- LAN: some outlets available in the tutorial rooms
- For those without own laptop: School PCs available; please read the hand-outs for instructions.
- NAF access and setup of ATLAS / CMS software: will be discussed in the introductory sessions after Wolfgang's presentation.
- Sufficient expertise available to solve technical problems.

For users of the PCs: Please don't switch off – just log out!

DESY MAP


HERA
Hallen N
HERA Halle West
DESY-Sportplatz
Halle NO
Halle O
Halle SO
HERA
Nebeneingang Side Gate
ATLAS tutorial
CMS tutorial
Lectures
Canteen

… AND NOW …

… hop along, learn a lot, and have fun!