It's Measurement Time!

Statistics School 2014

Thomas Schörner-Sadenius 👯



DESY-FH

DESY, 31 March 2014

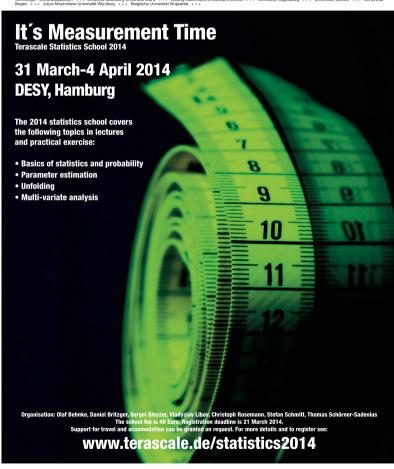




WELCOME ...



Dautsches Beikronn-Gynchroton DESY ++- Karlauher Institut für Technologie-Größfenchungsbenich ++- Mar-Planct-lentatut für Physik ++- Hinrich-Westfläster in Fernisch-Westfläster in Fernisch-Westfläst



- ... to the 13th statistics school / workshop organised in the framework of the Terascale Alliance!
 - Typically one introductory-level school and one more advanced event.
- ... to five days of lectures, tutorials, and discussions.
- > ... to Hamburg
 - We have a dense programme, but I hope that you find some time to toddle around and enjoy the city!



DESY - Deutsches Elektronen-Synchrotron

- Founded 18 December 1959
- Research centre of Helmholtz Association, Germany's largest organisation for basic research with large-scale infrastructures.

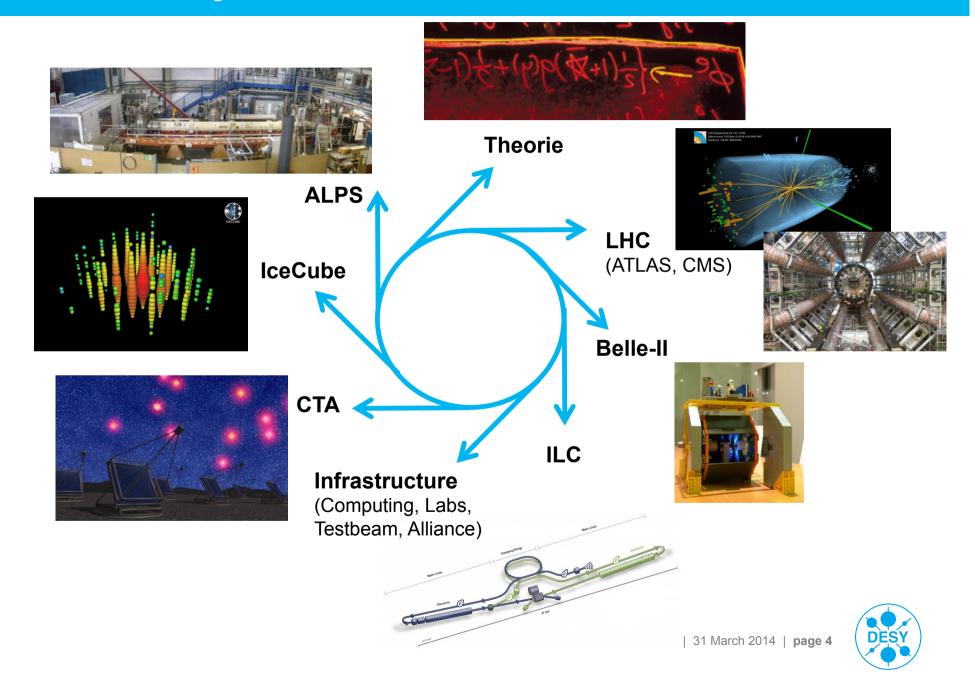


- Located in Hamburg and Zeuthen (Berlin)
- Annual budget: 192 MEUR
 (90% federal money, 10% state money)
- 2000 staff (650 scientists), 100 apprenticeships, 700 students and young postdocs.
- 3000 guest scientists from 40 countries.
- Particle physics, photon science, accelerator development and operation.





Particle Physics at DESY



THE HELMHOLTZ ASSOCIATION + ALLIANCE



Helmholtz: Largest German research organisation with 3.8 billion budget and 36,000 people. One research area: "Structure of Matter".

Particle physics: DESY + KIT

Helmholtz Alliance (since 2007): Use complementarity of Helmholtz and universities.

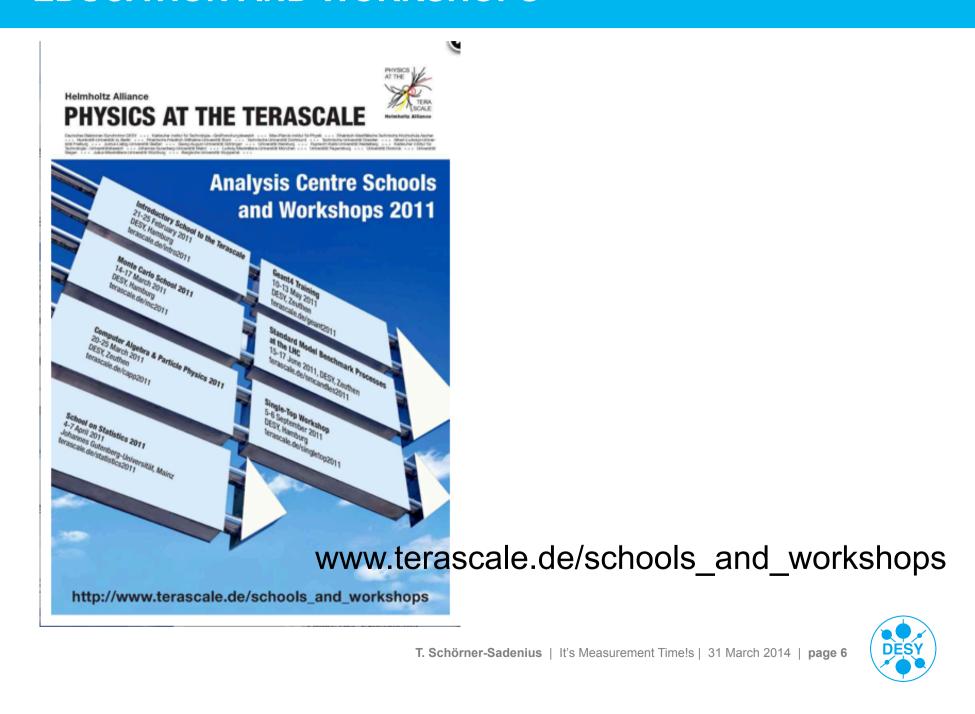
DESY + IT + MPI + 17 universities; 1000 physicists.

Concentrate on physics analysis, Grid computing, detector development (and accelerator research).

Important aspect: education and training.



EDUCATION AND WORKSHOPS



TIMETABLE

Statistics School 2014 "It's Measurement Time!" from Monday 31 March 2014 (08:00) to Friday 04 April 2014 (18:00)										: Sessions /: Talks : Breaks		
	Mon	day 31 March 2014		Tuesday 01 April 2014	W	ednesday 02 April 2014		Thursday 03 April 2014			Friday 04 April 2014	
АМ			09:15	Unfolding I - Stefan Schmitt (DESY) Daniel Britzger (DESY)	09:15	Unfolding III - Stefan Schmitt (DESY) Daniel Britzger (DESY)	09:15	Multivariate Analysis Techni Theory I Fundamentals - Sergei Gleyzer (DESY)	iques	09:15	Uncertainties from theory - Markus Diehl (DESY)	
			10:45	Coffee Break	10:45	Coffee Break	-	Harrison Prosper (Florida S	State	10:45	Coffee Break	
				Unfolding II -		Highlight talk	10.15	University)		11:15	The Big Picture: Statistics ar the Future of Particle Physic	
				Stefan Schmitt (DESY)	12:15	Lunch	10:45	Coffee Break			(tentative) -	
				Daniel Britzger (DESY)	12.10	12.10		Multivariate Analysis Techniques Practice I: Likelihood-based			Harrison Prosper (Florida State University)	
			12:45	Lunch				Tutorial - Sergei Gleyzer (D Harrison Prosper (Florida S		12:45	Closing words	
								University)	Rate			
							12:45	Lunch				
PM	13:00	Registration	14:00	Parameter estimation I - Olaf Behnke (DESY) Vladyslav Libov (Ukraine)		Parameter estimation III - Olaf Behnke (DESY) Vladyslav Libov (Ukraine)	14:00	Multivariate Analysis Techniques Theory II Advanced Methods - Sergel Gleyzer (DESY)		13:00	Lunch	
	14:00	Welcome							is -	14:15	DESY guided tour	
		Allen Caldwell (Max	15:30	Coffee Break	15:30	Coffee Break		Harrison Prosper (Florida State University)				
			16:00	Parameter estimation II - Olaf Behnke (DESY) Vladyslav Libov (Ukraine)		Parameter estimation IV - Olaf Behnke (DESY) Vladyslav Libov (Ukraine)	14:45	Multivariate Analysis Technique	auge			
	15:45	Coffee Break	k					Practice II Classification Tutorial - Sergei Gleyzer (DESY) Christoph Rosemann (DESY				
	16:15				19:00	Dinner(Canteen)			Y			
	Allen Caldwell (Max Planck Institute)						Hamburg)					
		Welcome Reception(15:30	Coffee Break				
	.0.10	SR4)					16:00	Multivariate Analysis Techni Practice III: Function Estima Tutorial - Sergei Gleyzer (D Christoph Rosemann (DES Hamburg)	ation (ESY)			



ORGANISATIONAL ISSUES

- Late registration: every day with Mrs Clayton in building 1, 1c/O2-337.
- > Tutorials:
 - Made using your laptops or the provided DELL desktops on the National Analysis Facility (NAF2.0) – accounts already with you.
- Social events:
 - Small (!) reception tonight with drinks and some fingerfood (in this SR).
 - Workshop dinner on Wednesday in the DESY bistro.
- Requests from the organisers
 - No laptop work etc. during lectures
 - Questions immediately and feedback is very welcome.
- WLAN information has been handed out.



COMPUTER ACCESS

> Account: schoolXY (XY=21-70)

> Password: NAFws2014

Login: ssh schoolXY@naf-school0Z Z=1,2,3,4 Load-balancing is applied.



DESY – OVERVIEW

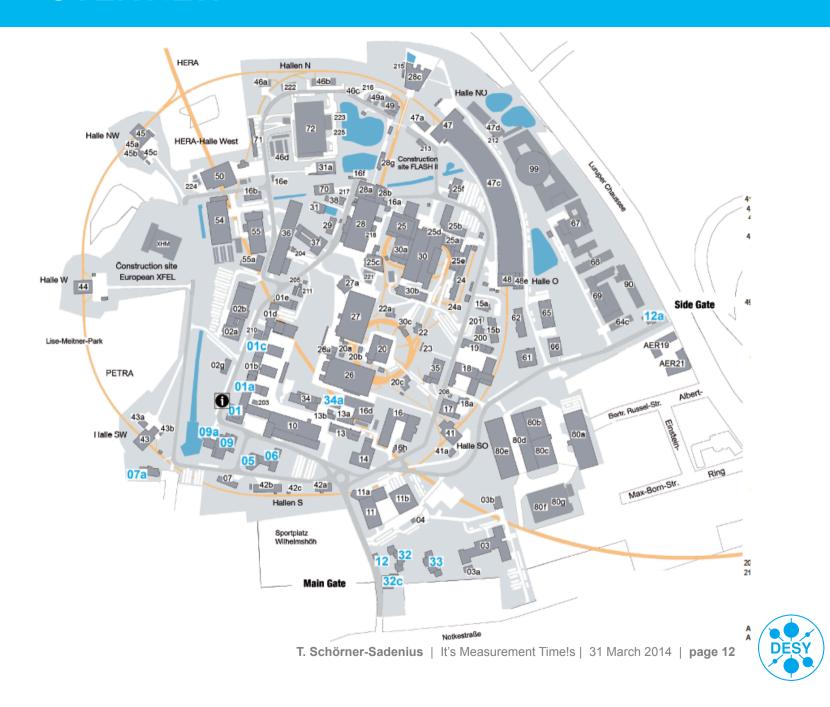




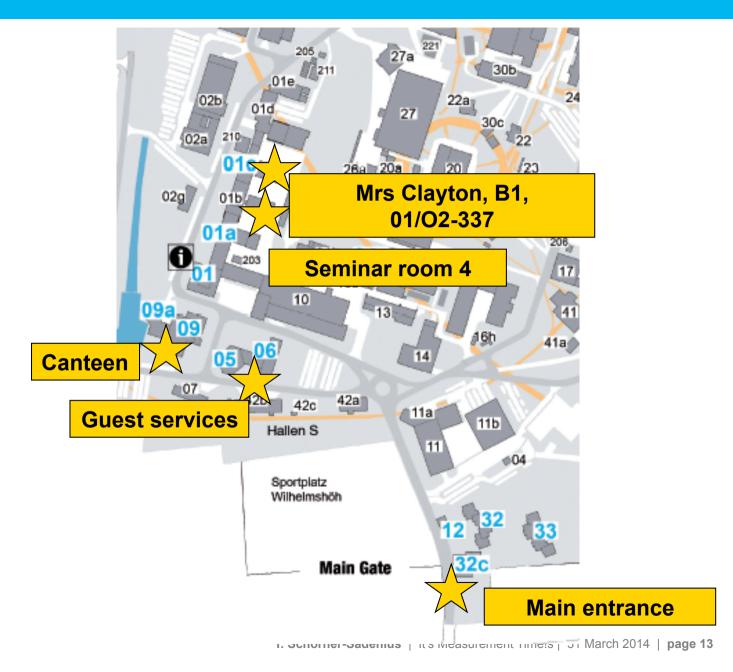
DESY – OVERVIEW



DESY – OVERVIEW



DESY - OVERVIEW





WHERE TO GO?

- Sternschanze S-Bahn (local train) station and surroundings
- > St. Georg (north of main station)
- Altona Ottensen (west of the Altona station)
- Portuguese quarter (Landungsbrücken)
- University quarter (Dammtor, Grindel, ...)
- > Eimsbüttel
- **>** ...
- → ask your local colleagues!



THANKS TO ...

- > ... to your home institutes
 - ... for contributing to the budget and sending you here!
- > ... to DESY
 - ... for hosting us!
- > ... to the Helmholtz Alliance
 - ... for the money and the framework!
- ... to all lecturers and tutors
 - ... for their immense work!
- i... and finally to all people behind the scenery which are necessary to put things in place:
 - Secretaries (Mrs. Clayton, Mrs Price), technicians, DESY IT, ...

