

# Terascale Alliance Introductory Statistics School

## Welcome and some information

DESY, 18 March 2013

Olaf Behnke 

## > Organisers (all from DESY)

- Gero Flucke, Olaf Behnke, Thomas Schoerner-Sadenius, Stefan Schmitt, Christoph Rosemann

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- Secretaries: Alla Grabowsky, Birgit Breetzke, Gabriele Kalhoefer, Michaela Grimm

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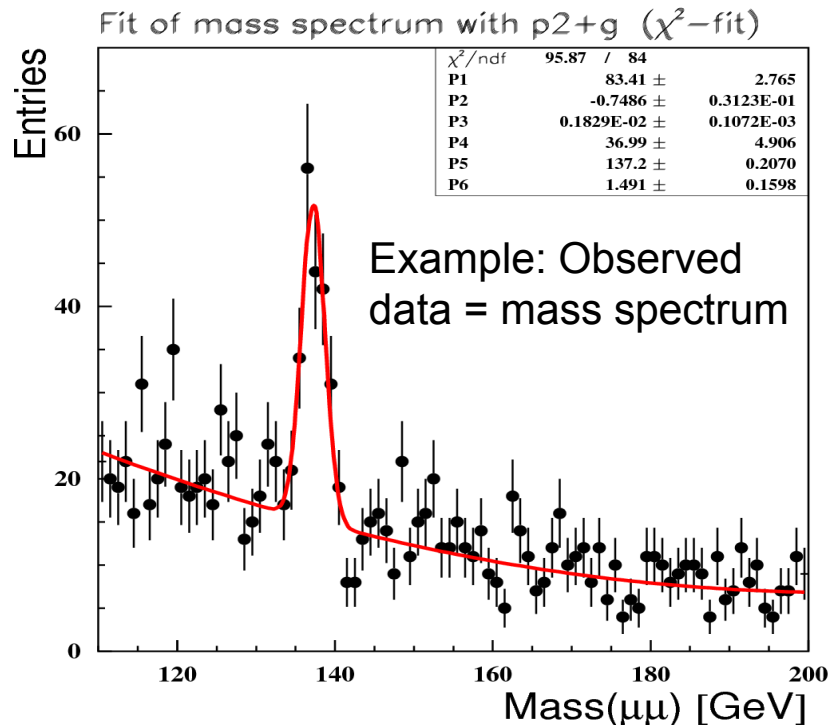
Please don't hesitate to ask us for any organisational question!

# Organisational issues

- Registration: was at registration desk in front of SR4, you have paid school fee of 40 Euros in cash; if you haven't done yet please contact/approach asap (during coffee break) one of the organisers, e.g. Gero or Olaf
- Web-access: during registration you should have received a sheet with name of wireless network and access key, otherwise ask one of the organisers.



Leitmotif of the school: Statistical Inference  
Observed data → draw some conclusions



**infer** →

New resonance: determine mass, production cross section

Ingredients for inference  $\equiv$  school lectures schedule!!!

- Concepts of statistics/Probabilities
  - Parameter estimation
  - Limit setting
  - Hypothesis tests
  - Systematic uncertainties
  - Theory systematic uncertainties
- 
- Synopsis: Analysis walk through



# TIMETABLE

**Introductory Statistics School 2013**  
 from **Monday 18 March 2013 (08:00)** to **Friday 22 March 2013 (18:00)**

  : Sessions  
   /   : Talks  
   : Breaks

	Monday 18 March 2013		Tuesday 19 March 2013		Wednesday 20 March 2013		Thursday 21 March 2013		Friday 22 March 2013	
<b>AM</b>			09:00	Parameter Estimation 1 - Christoph Rosemann (DESY Hamburg) Gero Flucke (DESY)	09:00	Parameter Estimation 3 - Christoph Rosemann (DESY Hamburg) Gero Flucke (DESY)	09:00	Systematic Uncertainties - Rainer Wanke (University of Mainz)	09:00	Analysis Walk-Through II
			10:30	--- Coffee Break ---	10:30	--- Coffee Break ---	10:30	--- Coffee Break ---	12:30	Closing words
			11:00	Parameter Estimation 2 - Gero Flucke (DESY) Christoph Rosemann (DESY Hamburg)	11:00	Parameter Estimation 4 - Christoph Rosemann (DESY Hamburg) Gero Flucke (DESY)	11:00	Systematic Uncertainties in Theory - Markus Diehl (DESY)		
			12:30	--- Lunch ---	12:30	--- Lunch ---	12:30	--- Lunch ---		
<b>PM</b>	13:00	Registration	14:00	Hypothesis Tests 1 - Yvonne Peters (University of Goettingen and Desy) Cecile Deterre	14:00	Limit Setting 1 - Stefan Schmitt (DESY)	14:00	Analysis Walk-Through I - Ivo van Vulpen (NIKHEF) Aart heijboer Heijboer (NIKHEF)		
	14:00	Welcome - Olaf Behnke (DESY)	15:30	--- Coffee Break ---	15:30	--- Coffee Break ---				
	14:10	Concepts of Statistics - Allen Caldwell (Max Planck Institute) <a href="#">Slides</a> Institute)	16:00	Hypothesis Tests 2 - Yvonne Peters (University of Goettingen and Desy)	16:00	Limit Setting 2 - Stefan Schmitt (DESY)				
	15:10	Virtual Machine Setup - Gero Flucke (DESY)	19:00	--- Workshop Dinner ---						
	15:15	--- Coffee Break ---								
	15:45	Probabilities - Christoph Rosemann (DESY Hamburg) Gero Flucke (DESY) <a href="#">tutorials</a>								





# DESY – OVERVIEW

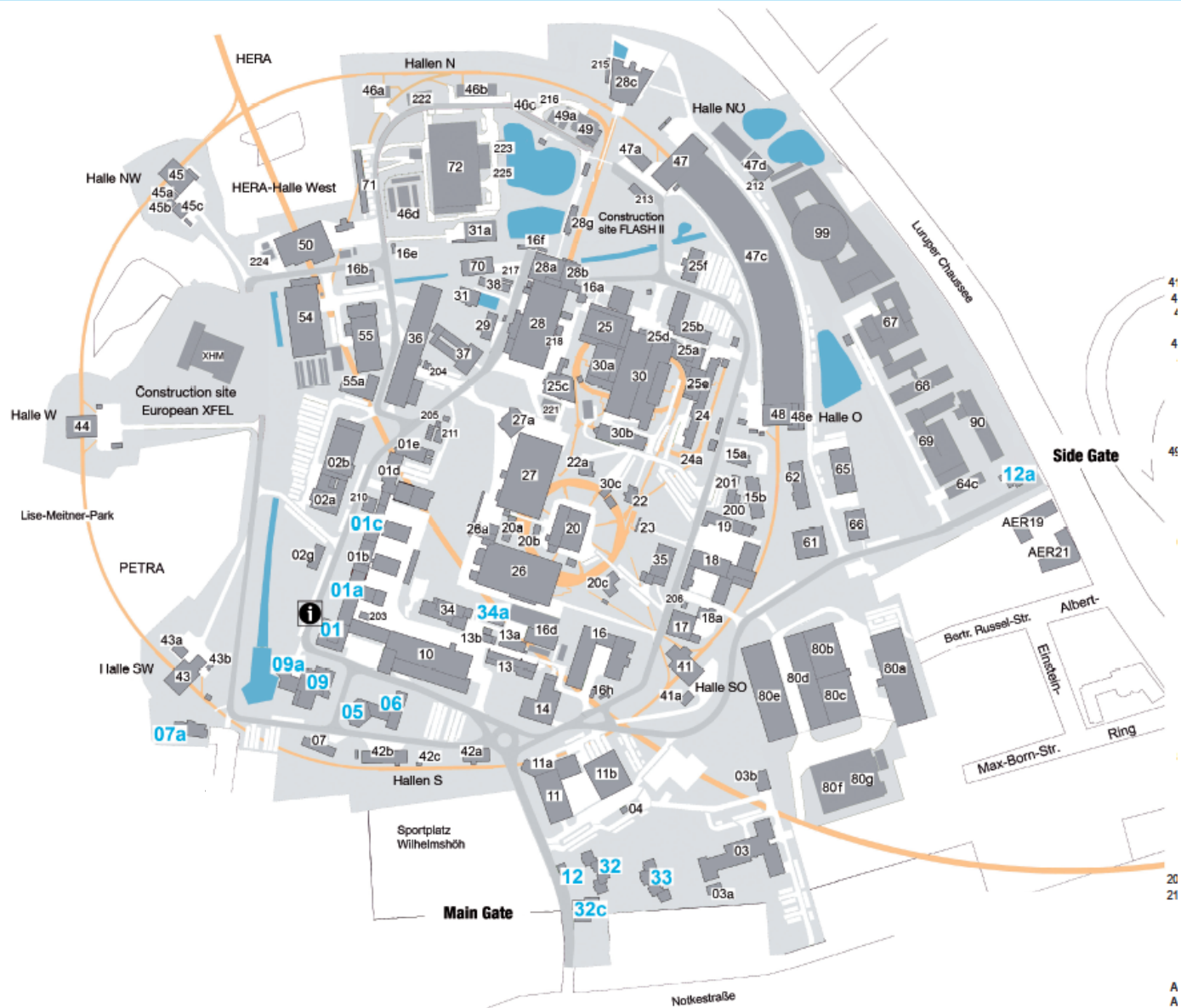




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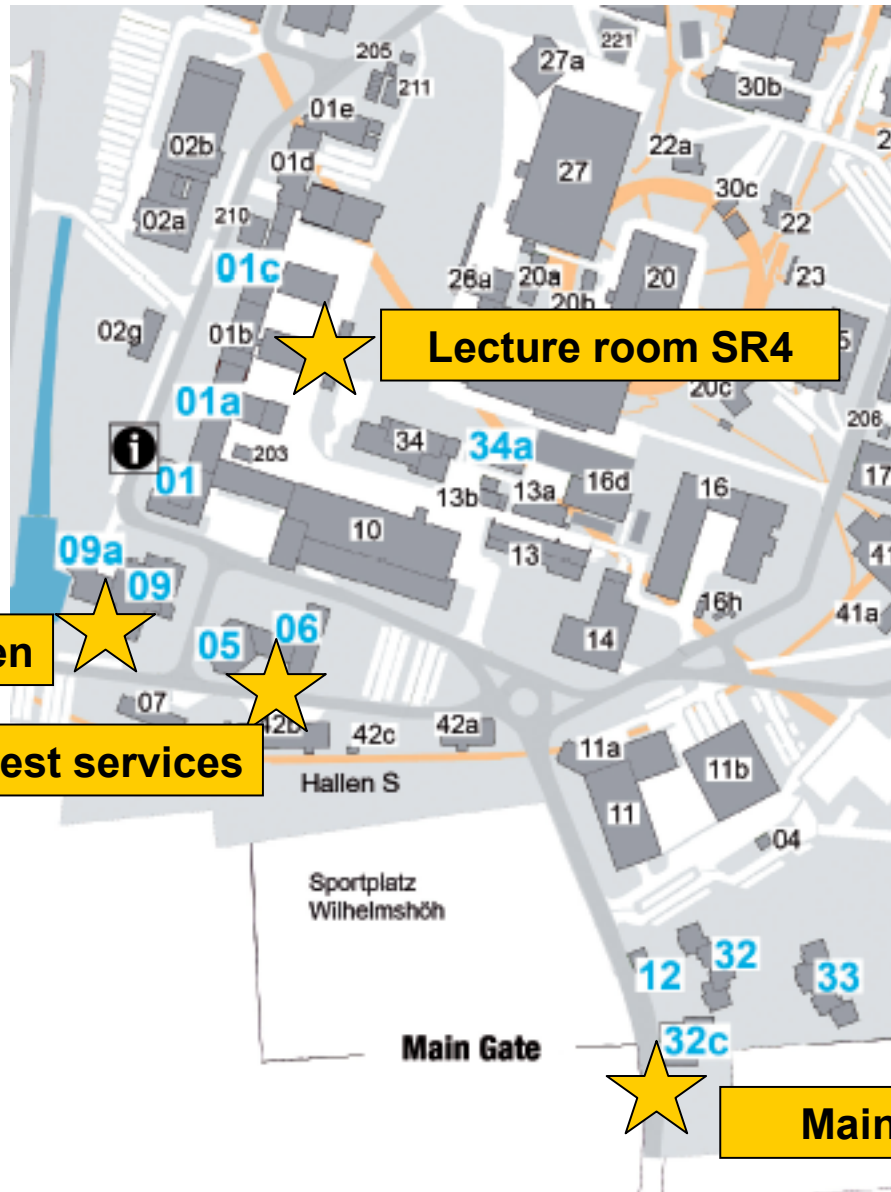


# DESY – OVERVIEW





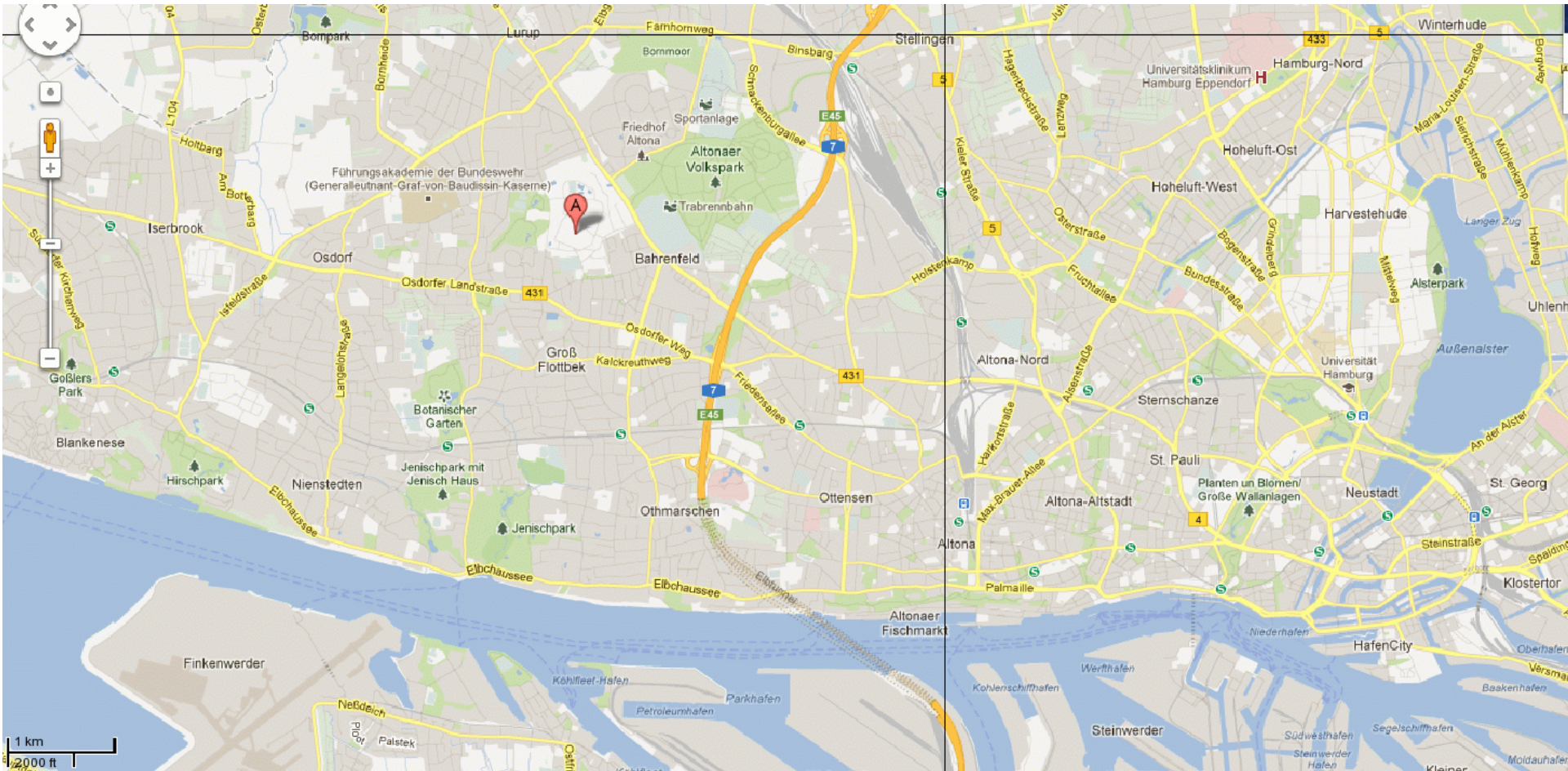
# DESY – OVERVIEW



Also the place for the dinner, 19.3. 19h00 in the part called "Canteen extension"



# Hamburg – OVERVIEW



# Final remarks

- Please do not hesitate to interrupt/ask the lecturers for questions, your active participation is very much desired!



Last but not least: Please enjoy the school!