Introduction to Terascale Physics

Welcome and information

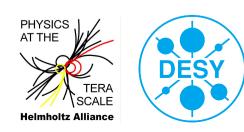
Thomas Schörner-Sadenius 👯



DESY-FH

DESY, 17 March 2014



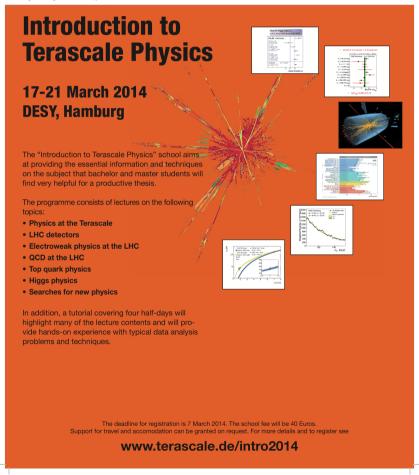


WELCOME ...

Helmholtz Alliance

PHYSICS AT THE TERASCALE





- ... to the 5th "Introduction to Terascale Physics" school.
 - Of course we have changed, adapted, improved. But we also repeat a large fraction of last year's programme.
- ... 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.

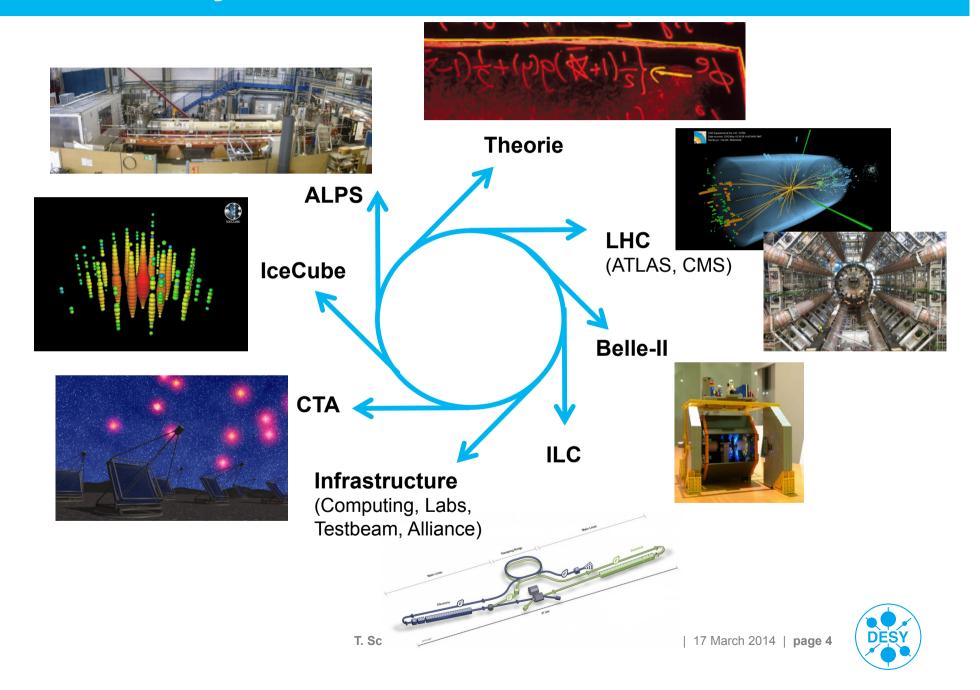


- Located in Hamburg and Zeuthen (Berlin)
- Annual budget: 192 MEUR
 (90% federal money, 10% state money)
- 2000 staff (650 scientists), 100 apprenticeships, 700 students and young postdocs.
- 3000 guest scientists from 40 countries.
- Particle physics, photon science, accelerator development and operation.





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.

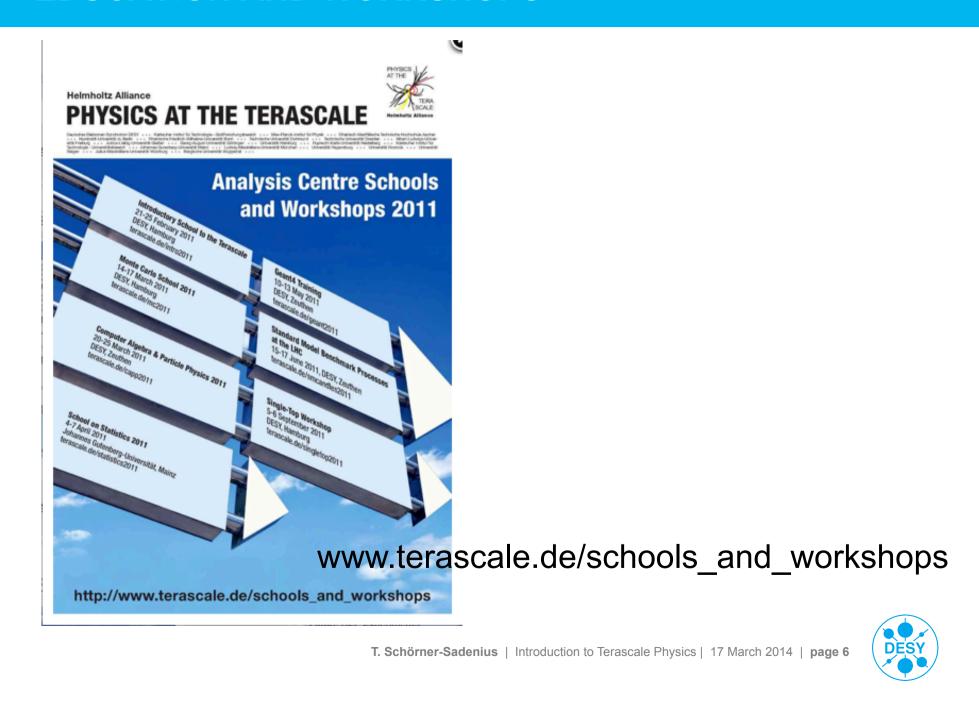
DESY + IT + MPI + 17 universities; 1000 physicists.

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

Important aspect: education and training.



EDUCATION AND WORKSHOPS



TIMETABLE





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 with the concept of a virtual machine inside VirtualBox – which you hopefully all have tested.
- We invite you to work in pairs –increases benefit and facilitates discussions.

Social events:

- Small (!) reception tonight with drinks and some fingerfood (in this SR).
- Workshop dinner on Thursday in the DESY bistro.
- > Requests from the organisers
 - No laptop work etc. during lectures
 - Questions immediately and feedback is very welcome (Friday discussion session)
- WLAN information has been handed out.



DESY – OVERVIEW

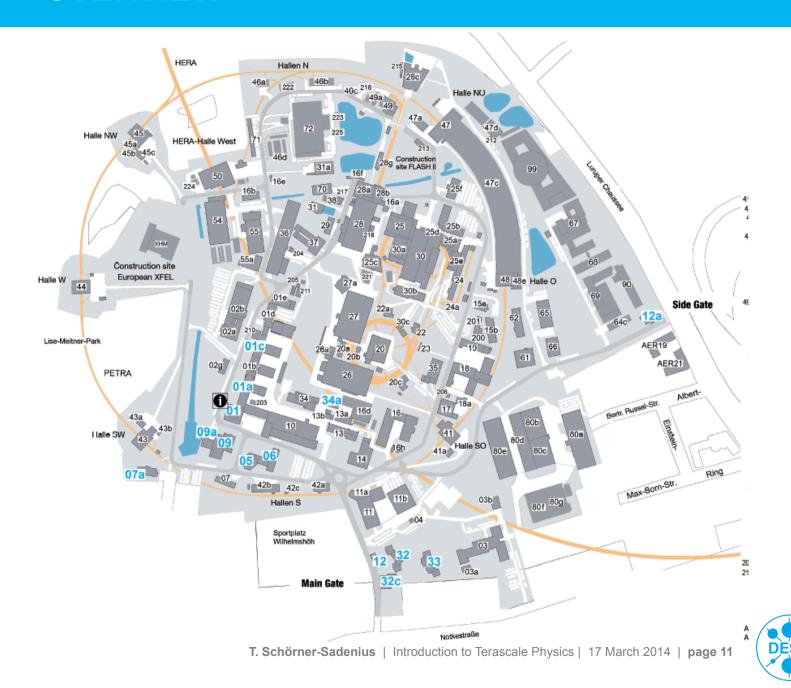




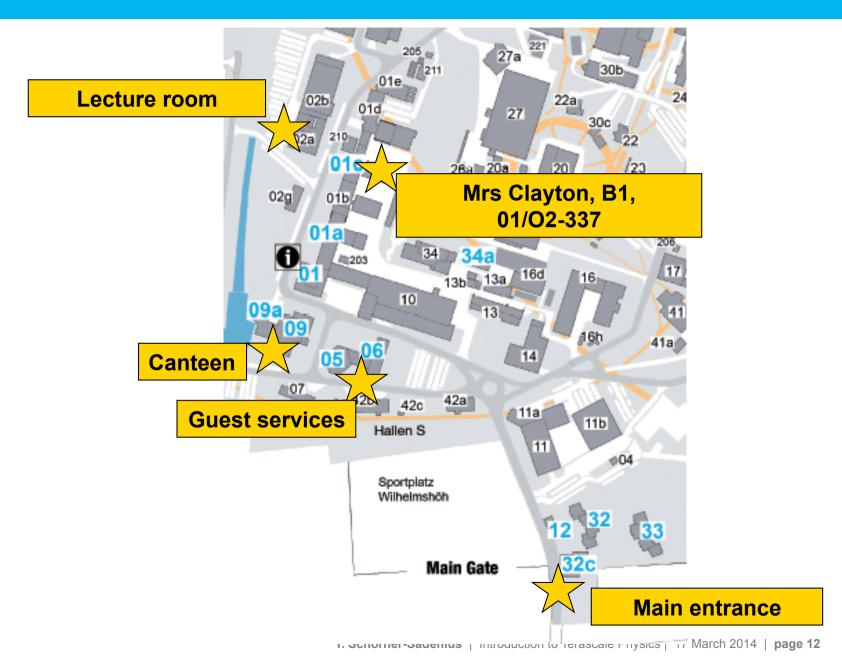
DESY – OVERVIEW



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, ...

