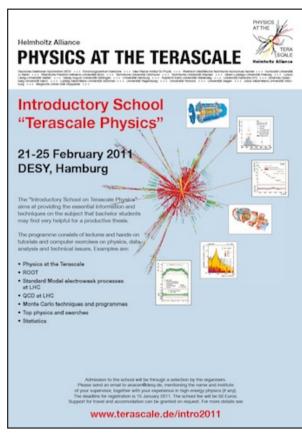
# Introduction to the Terascale

### Welcome, some caveats, some information

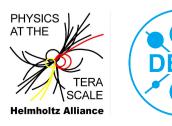


Thomas Schörner-Sadenius DESY-FH



DESY, 21 February 2011





### WELCOME ...

- i... to the second (!) "Introductory" school.
  - Last year's school attracted 45 participants, this year about the same number so last year not all was bad!
  - 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 DESY the national HEP laboratory.
  - DESY has to change and is changing exciting times!
  - Please participate in Wednesday's guided tour there is a lot to see!

#### Caveat:

- It is extremely challenging to find a level of difficulty and complexity that suits most of you. We hope we manage, but please let us know if things are far too easy or too difficult.
- Please ask questions immediately!



## **ORGANISATIONAL ISSUES**

#### > Tutorials:

- Will be made using the VM image prepared by Simon. Time for technical preparation tonight after the last lecture. Please let us know if you have no laptop → use DESY desktop machines!
- We invite you to work in pairs therefore lack of laptop anyhow no problem!
- Wireless network and tabletop connections!
- > Hotel B&B bills:
  - All hotel room bills should go to DESY directly. If you should happen to get a bill from the B&B hotel give it to us.

#### Social events:

- Workshop dinner on Wednesday in the canteen appendix, and guided tour of DESY on Wednesday at 13:00 starting in this seminar room.
- Requests from the organisers
  - No laptop work etc. during lectures
  - Questions immediately and feedback is very welcome (questionnaires on Friday)

### STUDENT PRESENTATIONS

- Each tutorial shall be especially observed, documented and reported on (in the Friday morning session) by a team of ~three students.
  - Several benefits: these persons will pay special attentation, repetition of material for all colleagues, improving your presentation and documentation skills, etc.
  - We ask for volunteers, otherwise we will volunteer teams.
  - You can use any technology you like that you find installed somewhere: Linux, Windows, Apple, ... Tex, Powerpoint, Keynote, ... hand-written slides ...
  - Idea: Summarise task, results, main messages for colleagues.
  - You can also bring in your feedback here if you want to!



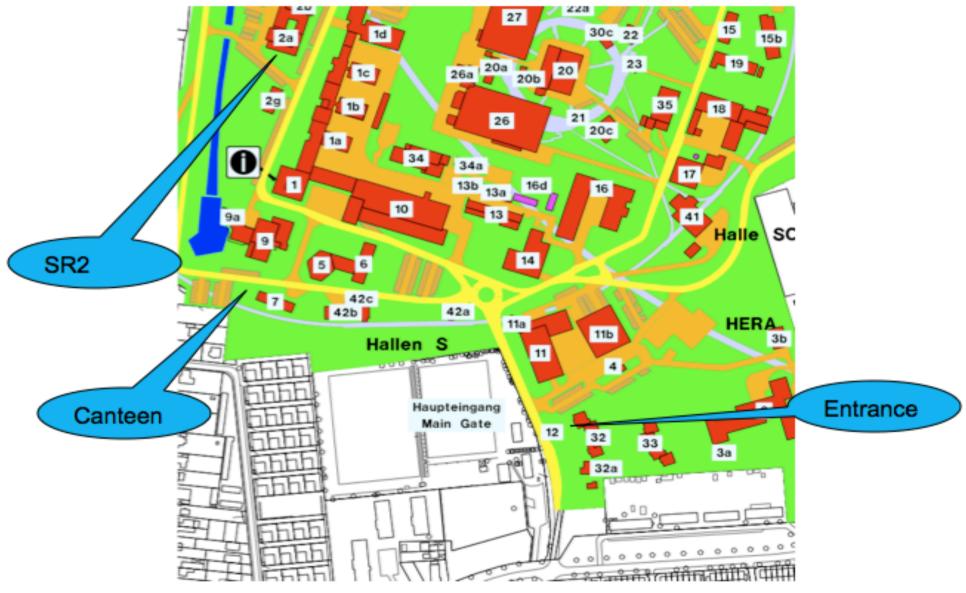
## **AGENDA**

setup!

Monday	Tuesday	Wednesday	Thursday	Friday
	Electroweak physics (lecture and tutorial)	QCD at the LHC (lecture)  The parton shower (lecture)	Top physics (lecture and tutorial)	Student presentations Feedback session
Registration and lunch	Lunch	Lunch and guided tour	Lunch	Lunch
Physics at the LHC (lecture)  Detectors for the LHC	Electroweak physics continued Making measurements at	QCD and Monte Carlo generators (lecture and tutorial)	Higgs, searches and statistics (lecture and tutorial)	
(lecture)  Computer	the LHC	Dinner!		



## **DESY - OVERVIEW**





## THANKS TO ...

- > ... to your home institutes (more than 10!)
  - ... 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!
- ... and finally to all people behind the scenery which are necessary to put things in place:
  - Secretaries (especially Katja Stemmler), technicians, DESY IT, Simon Plätzer for the VM setup, ...



## "SCHLEICHWERBUNG"

"Physics at the Terascale" (Wiley-VCH)

