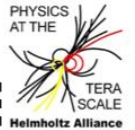


Welcome to the Advanced Programming Concepts School

HELMHOLTZ

Helmholtz Alliance

PHYSICS AT THE TERASCALE



Deutsches Elektronen-Synchrotron DESY +++ Karlsruher Institut für Technologie +++ Max-Planck-Institut für Physik München +++
Rheinisch-Westfälische Technische Hochschule Aachen +++ Humboldt-Universität zu Berlin +++ Rheinische Friedrich-Wilhelms-Universität Bonn +++
Technische Universität Dortmund +++ Technische Universität Dresden +++ Albert-Ludwigs-Universität Freiburg +++ Justus-Liebig-Universität Gießen +++
Georg-August-Universität Göttingen +++ Universität Hamburg +++ Ruprecht-Karls-Universität Heidelberg +++ Johannes Gutenberg-Universität Mainz +++
Ludwig-Maximilians-Universität München +++ Universität Regensburg +++ Universität Rostock +++ Universität Siegen +++ Julius-Maximilians-Universität
Würzburg +++ Bergische Universität Wuppertal +++

Advanced Programming Concepts

2-6 June 2025

DESY Hamburg

The 2025 School on "Advanced Programming Concepts" is the seventh in a series started in Dresden in 2011 and later continued in Dresden, Munich and Hamburg.

Lectures and tutorials on:

- Principles of object-oriented design (C++, Python, Julia)
- Julia programming language (full day)
- Design patterns
- Unified modelling language
- Refactoring
- Unit testing
- Package management
- Data flow modelling
- Performance, design and parallelization

Lectures are accompanied with hands-on exercises on selected topics.

Lecturers:

- Maria Grazia Pia
- Oliver Schulz
- Stefan Kluth

Organizing Committee:

I. Henning, A. Hinzmann, S. Kluth

More details and registration at the workshop webpage:
https://indico.desy.de/e/programming_2025

Workshop fee: 100 Euro
Registration deadline: 9 May 2025



A bit of organization

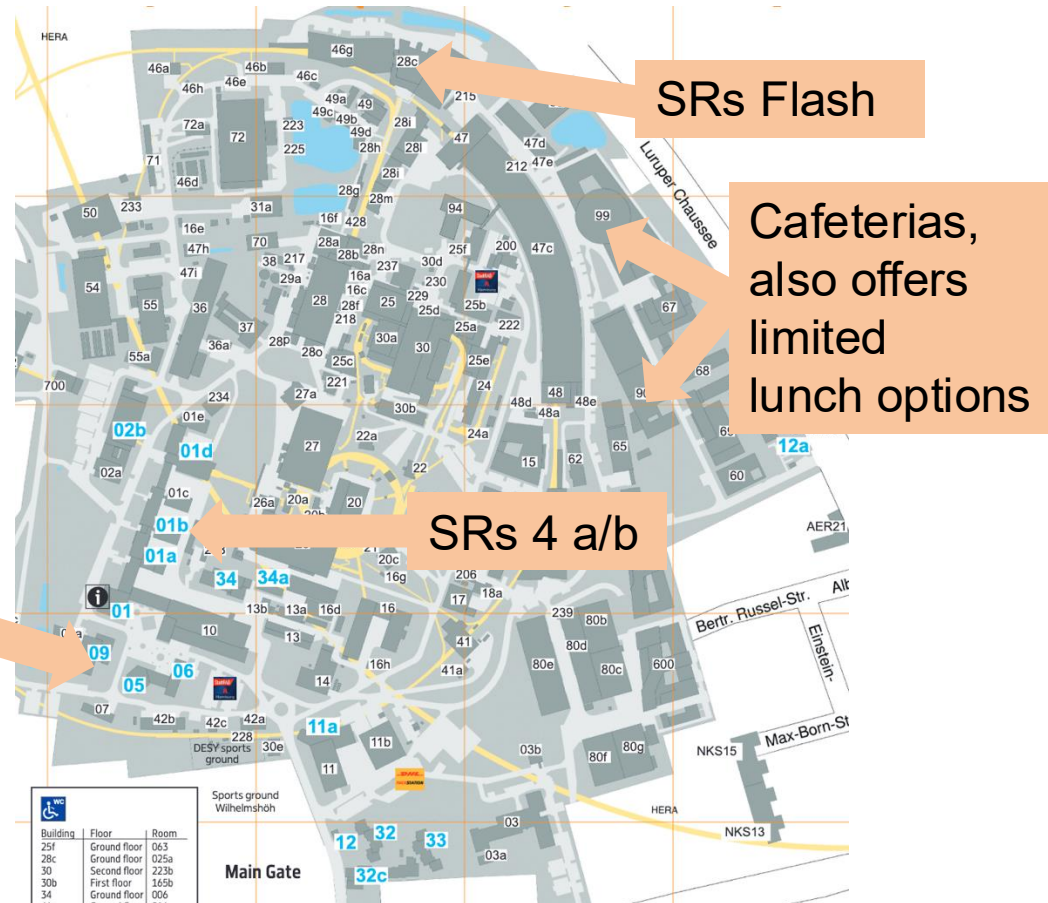
Rooms and food 😊

- Most lectures and exercises are in SR 4 a/b, only Wednesday will be in SR Flash

The Flash SR is in the upper floor, on top of the experimental hall

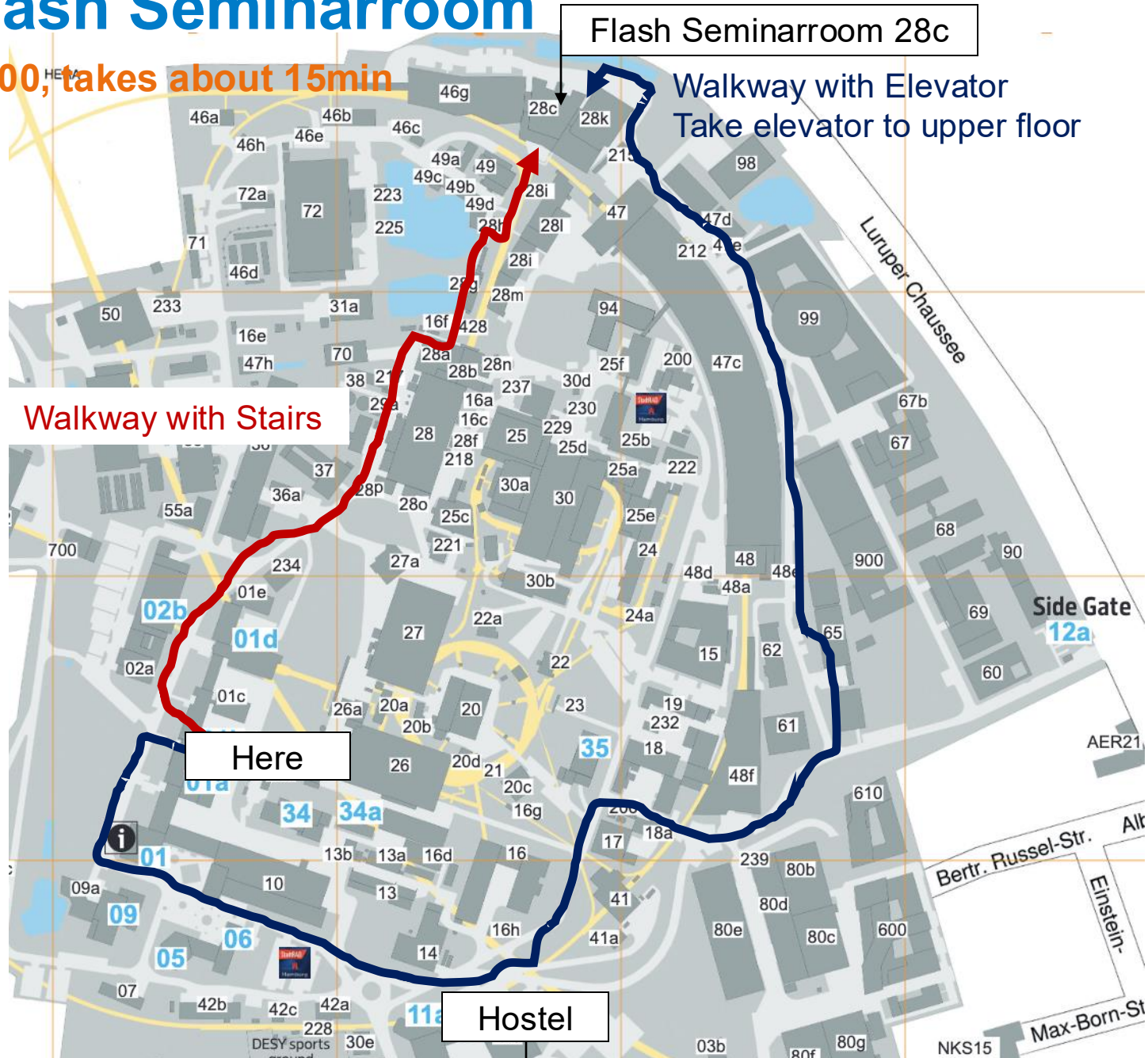
- Dinner on Wednesday evening will be in the Canteen extension

Canteen:
Several choices, always with vegetarian menu option, salad bar, veggies, and a water station after the cashier.
Payments only in cash (EC machine at the entrance)



Way to Flash Seminarroom

Wednesday 19:00, takes about 15min



School dinner

Wednesday 19:00

- The school dinner will take place in the Blockbräu at the Landungsbrücken 3, starting at 19:00
- Public transport: if you don't have the Deutschland-Ticket, you will need to download the hvv app to buy a ticket
 - Direct S-Bahn connection from Othmarschen
 - Best to share a 5-person day ticket for the way there and back
- Alternative: Stadtrad Hamburg (there is also a station at DESY), registration is 5 Euro, which can be used for paying the rent in the first year; in general 30 min biking is for free, then 10 ct per minute



Way to Dinner

Wednesday 19:00, takes about 45min

Beste 20 min 44 min 1 h 47 ... 31 min

Experimentierhalle (28c), Notkestraße 85, 226
BLOCKBRÄU, Bei den St. Pauli-Landungs

Jetzt starten Optionen

Wegbeschreibung an mein Smartphone senden Link kopieren

14:08 bis 14:52	44 min
14:21 ab Luruper Chaussee (DESY)	
14 min alle 10 min	
Details	
14:08 bis 14:49	41 min
1 > 284 > S S1	
14:14 bis 14:59	45 min
X3 3 > U U3	
14:09 bis 15:04	55 min
3 > U U3	

