

# Winter student program 2023

Introduction - 2023, January 31<sup>st</sup>

**Stefan Ohm**

Support: Sarah Seibt, Pavlo Plotko, Gernot Maier

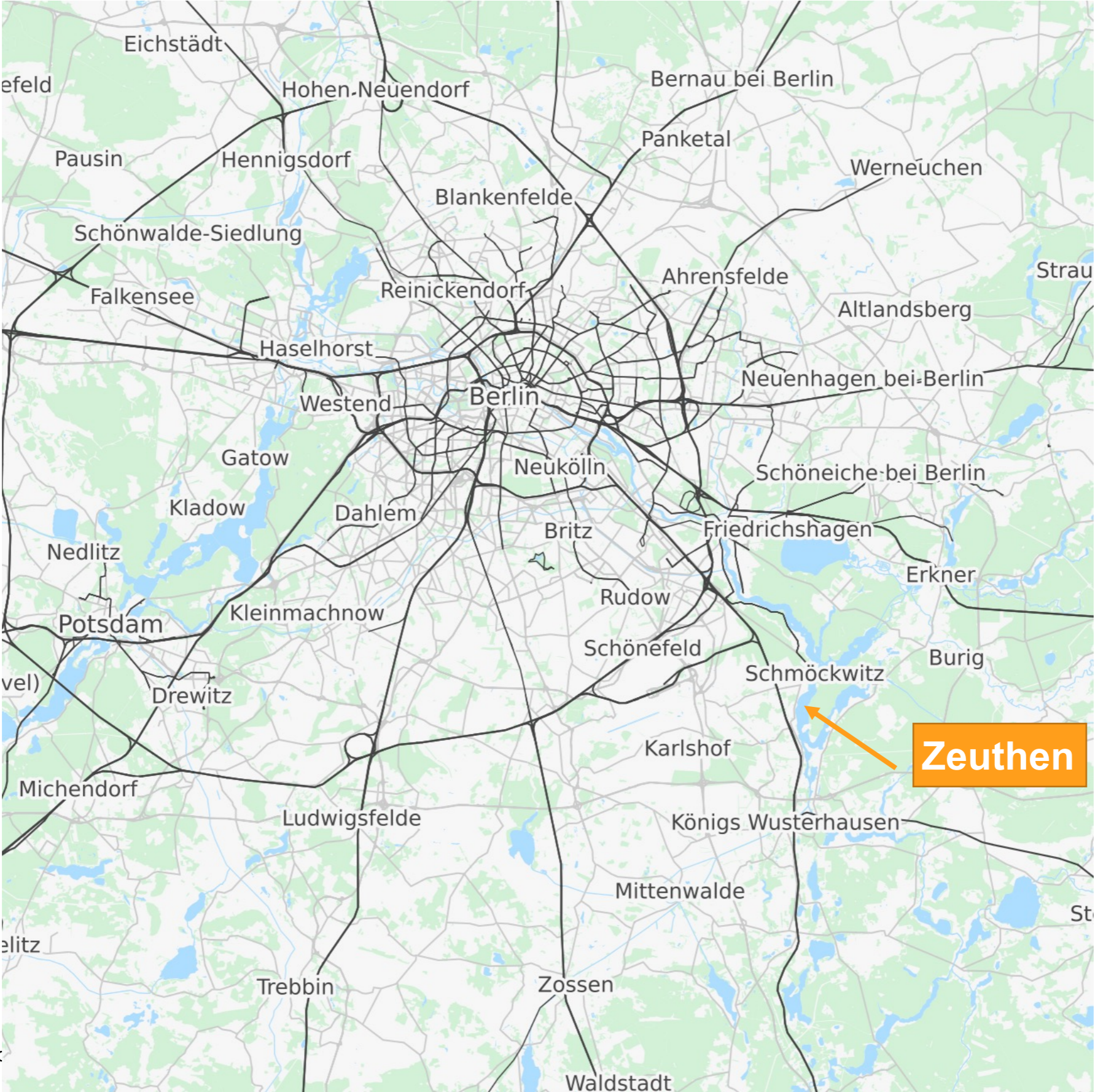


# Welcome

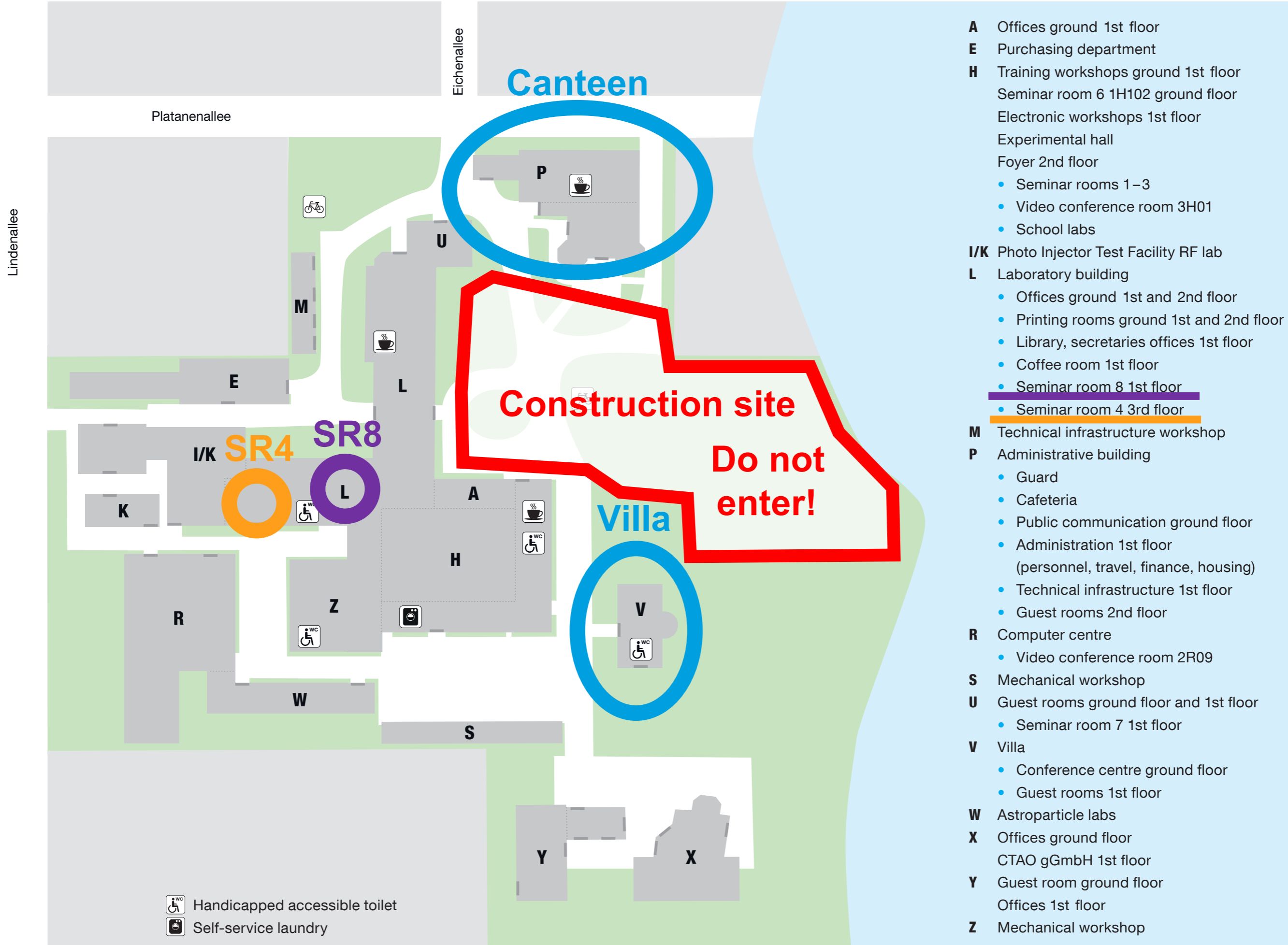
- Dedicated [webpage](#) with further information and links
- Coordination of program at DESY Zeuthen Site
  - Stefan Ohm ([stefan.ohm@desy.de](mailto:stefan.ohm@desy.de))
  - Sarah Seibt ([sarah.seibt@desy.de](mailto:sarah.seibt@desy.de))
- General matters
  - Winter school orga team: ([ukraine-school-org@desy.de](mailto:ukraine-school-org@desy.de))
- Day-to-day business
  - Project supervisors and research groups
  - Pavlo Plotko ([pavlo.plotko@desy.de](mailto:pavlo.plotko@desy.de))



# DESY Zeuthen Site



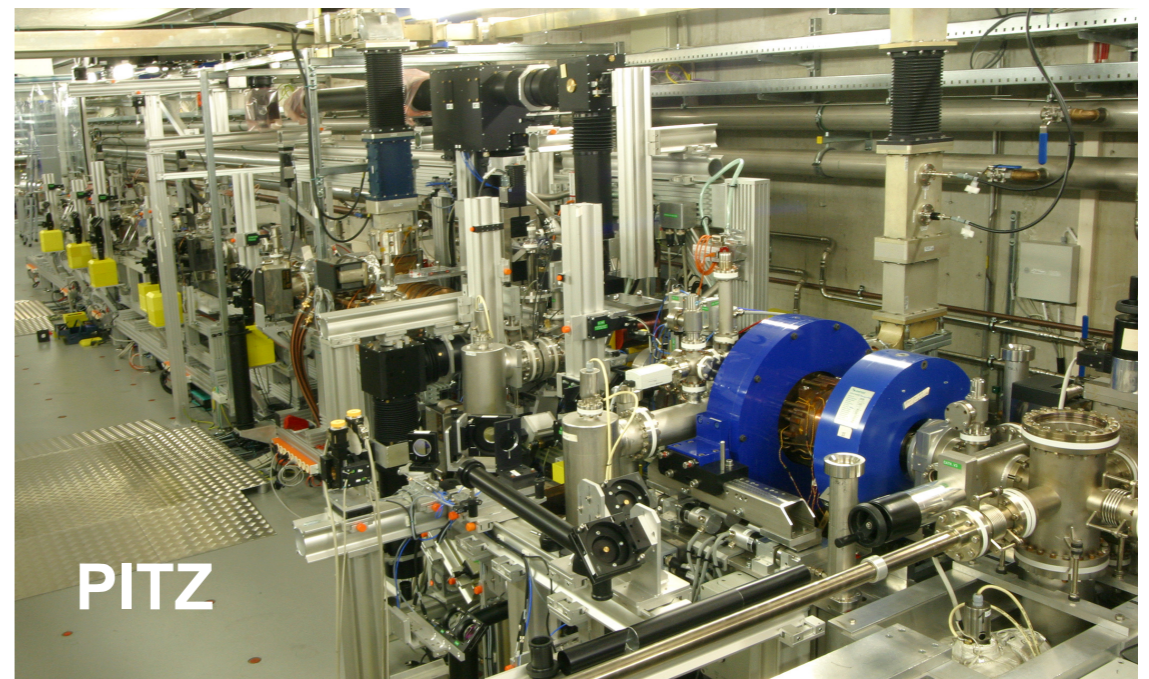


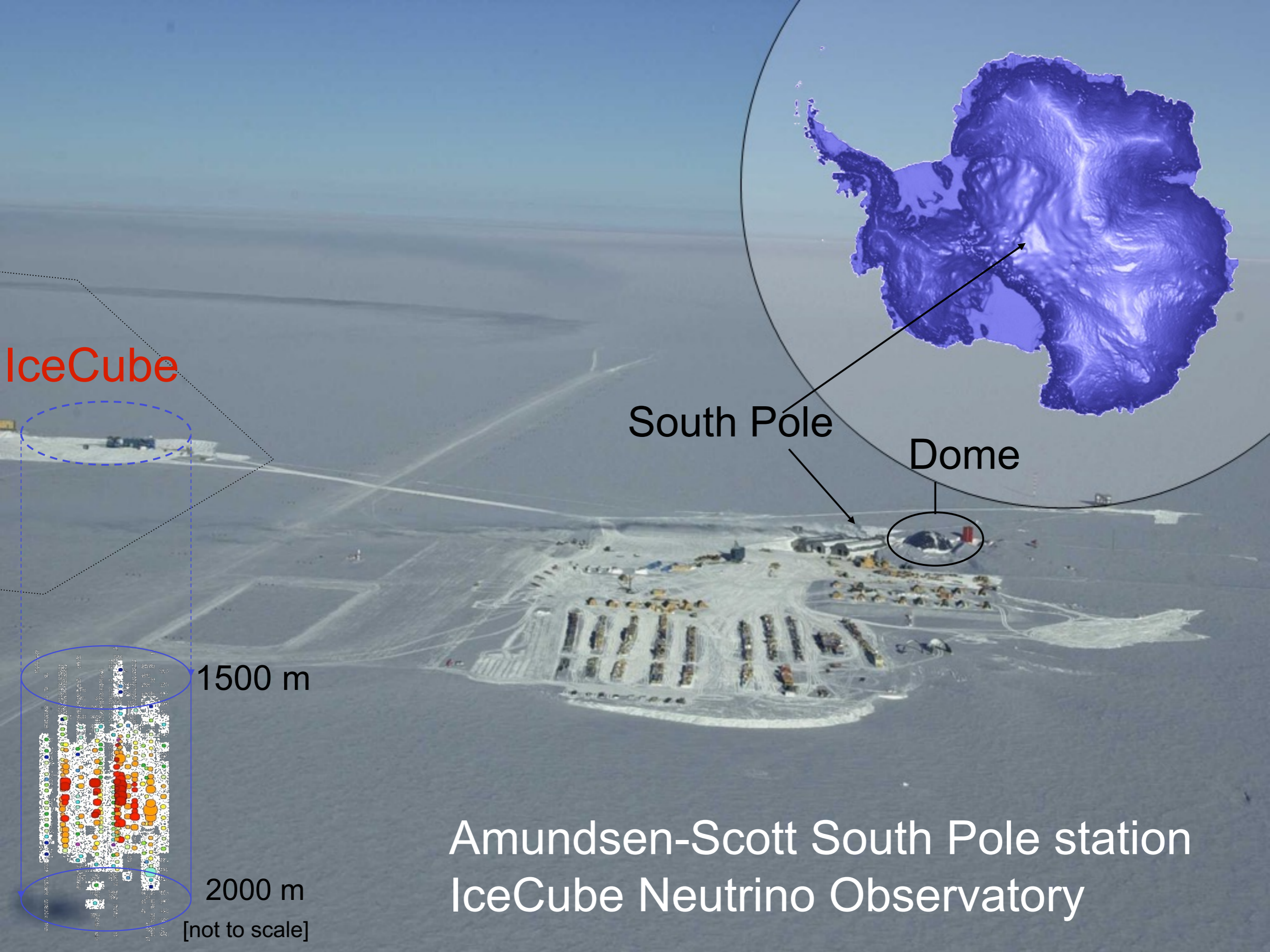


- A** Offices ground 1st floor
- E** Purchasing department
- H** Training workshops ground 1st floor  
Seminar room 6 1H102 ground floor  
Electronic workshops 1st floor  
Experimental hall  
Foyer 2nd floor
  - Seminar rooms 1–3
  - Video conference room 3H01
  - School labs
- I/K** Photo Injector Test Facility RF lab
- L** Laboratory building
  - Offices ground 1st and 2nd floor
  - Printing rooms ground 1st and 2nd floor
  - Library, secretaries offices 1st floor
  - Coffee room 1st floor
  - Seminar room 8 1st floor
  - Seminar room 4 3rd floor
- M** Technical infrastructure workshop
- P** Administrative building
  - Guard
  - Cafeteria
  - Public communication ground floor
  - Administration 1st floor  
(personnel, travel, finance, housing)
  - Technical infrastructure 1st floor
  - Guest rooms 2nd floor
- R** Computer centre
  - Video conference room 2R09
- S** Mechanical workshop
- U** Guest rooms ground floor and 1st floor
  - Seminar room 7 1st floor
- V** Villa
  - Conference centre ground floor
  - Guest rooms 1st floor
- W** Astroparticle labs
- X** Offices ground floor  
CTAO gGmbH 1st floor
- Y** Guest room ground floor  
Offices 1st floor
- Z** Mechanical workshop

# DESY Zeuthen - Science Topics

- **Astroparticle Physics**
  - Astroparticle Theory
  - Neutrino Astronomy
  - Gamma-ray Astronomy
  - Optical and UV Astronomy
- **Accelerator Development**
- **Particle Physics (LHC, Theory)**
- **Quantum Computing**





IceCube

South Pole

Dome

1500 m

2000 m

[not to scale]

Amundsen-Scott South Pole station  
IceCube Neutrino Observatory



# CTA - Astronomy with GeV-TeV Photons

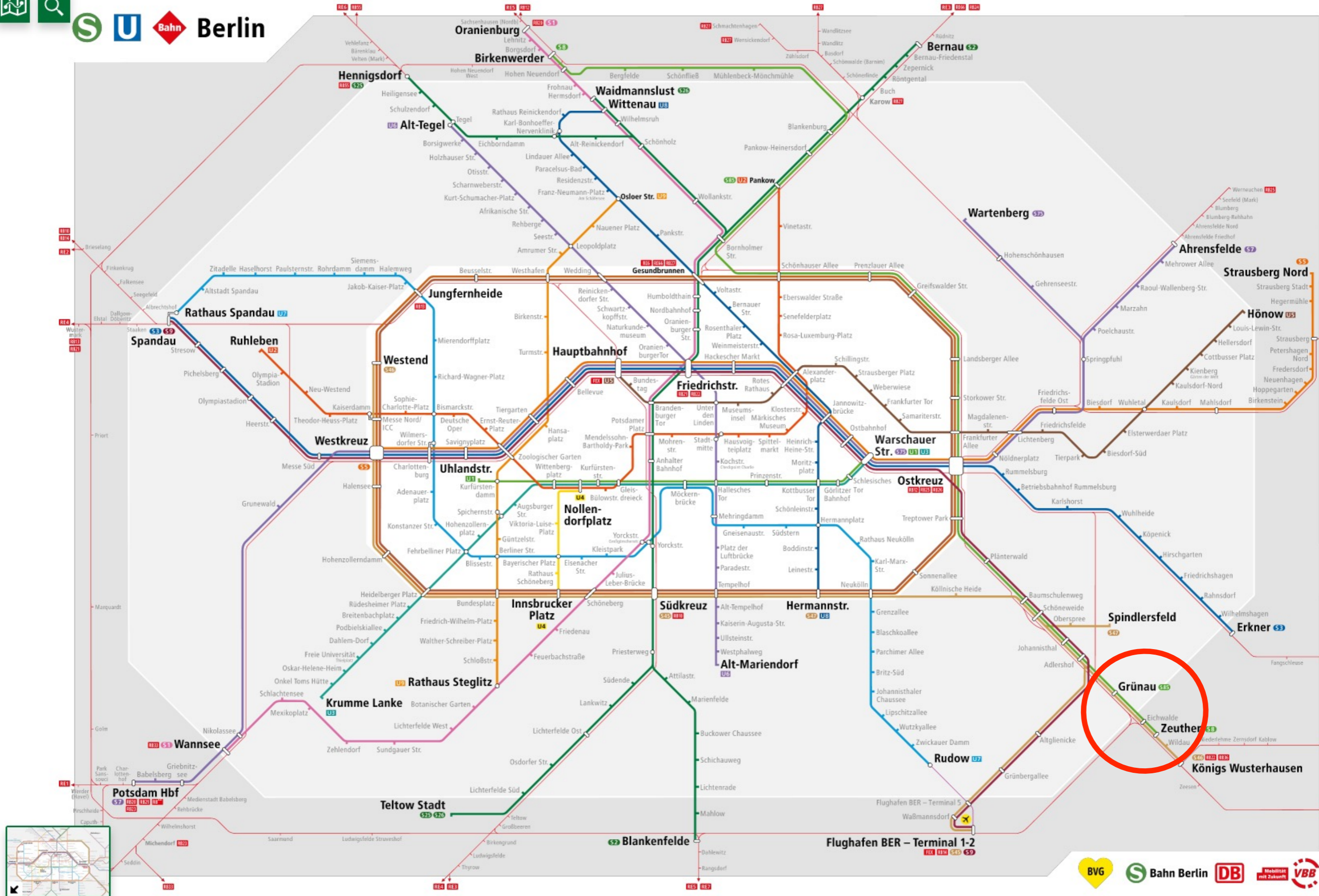


# Program overview

- **General information & lecture program as in Olaf's slides**
- **Special events**
  - 03.02.: Berlin city tour, departure from DESY Zeuthen, XXpm
  - 08.02.: DESY tour, welcome reception, overnight stay in Hamburg
    - B => HH: 08:27, Berlin Südkreuz (ICE806)
    - Arrival: 10:38, Hamburg-Altona
  - 09.02.: Return from Hamburg
    - HH => B: 10:17, Hamburg-Altona (ICE509)
    - Arrival: 12:34, Berlin Südkreuz
  - 24.02.: Pro-Ukrainian demonstration and event planned in Berlin city center (likely afternoon)
  - 27.02.: XFEL tour, dinner, concert in Elbphilharmonie, overnight stay in Hamburg
    - B => HH: 08:27, Berlin Südkreuz (ICE806)
    - Arrival: 10:38, Hamburg-Altona
  - 28.02.: Return from Hamburg in the evening
    - HH => B: 19:38, Hamburg-Altona (ICE699)
    - Arrival: 21:31, Berlin Südkreuz

# Organisation (1)

- Payment:
  - Daily subsistence allowance of 25 Euro
  - + Travel reimbursement (2 x 100 Euro flat, no invoices needed)
  - Cash payment after this and Sarah's talk
- Canteen
  - Open weekdays 08:00 – 14:00 (lunch 11:30 – 13:10)
  - There is a students discount
- Public transport
  - [Group tickets](#) (24 hours, 5 ppl)
  - No extra tickets needed on trips to/from Hamburg (incl. in train tickets)
  - App: BVG or S-Bahn Berlin or Deutsche Bahn



# Organisation (2)

- With your DESY account, you have access to many useful services for your project work, e.g.
  - [notes.desy.de](https://notes.desy.de): Easy note-taking tool, based on sublime
  - [gitlab.desy.de](https://gitlab.desy.de): Version-control of code + documentation
  - [mattermost.desy.de](https://mattermost.desy.de): Chat tool that many research groups work with (access to Astroparticle space [here](#))

**Enjoy the School!**