## DESY Summer Student Program 2022



**Orga-Team**: Olaf Behnke, Friederike Januschek, Andreas Przystawik, Ute Micheelsen, Andrea Schrader

## The 76 Summer students at DESY Hamburg come from 35 Nations

- Afghanistan, Austria, Brazil, Bulgaria, Colombia, Cuba,
- Denmark, Ecuador, Egypt, France, Germany, Greece,
- · India, Iran, Italy, Jordania, Kosovo, Lithuania, Malaysia,
- Norway, Pakistan, Palestine, Phillipines, Poland, Romania,
- Russia, Slovakia, South-Africa, Spain, Switzerland, Taiwan,
- Thailand, Turkey, United Kingom, Ukraine

# NICE TO MEET YOU!

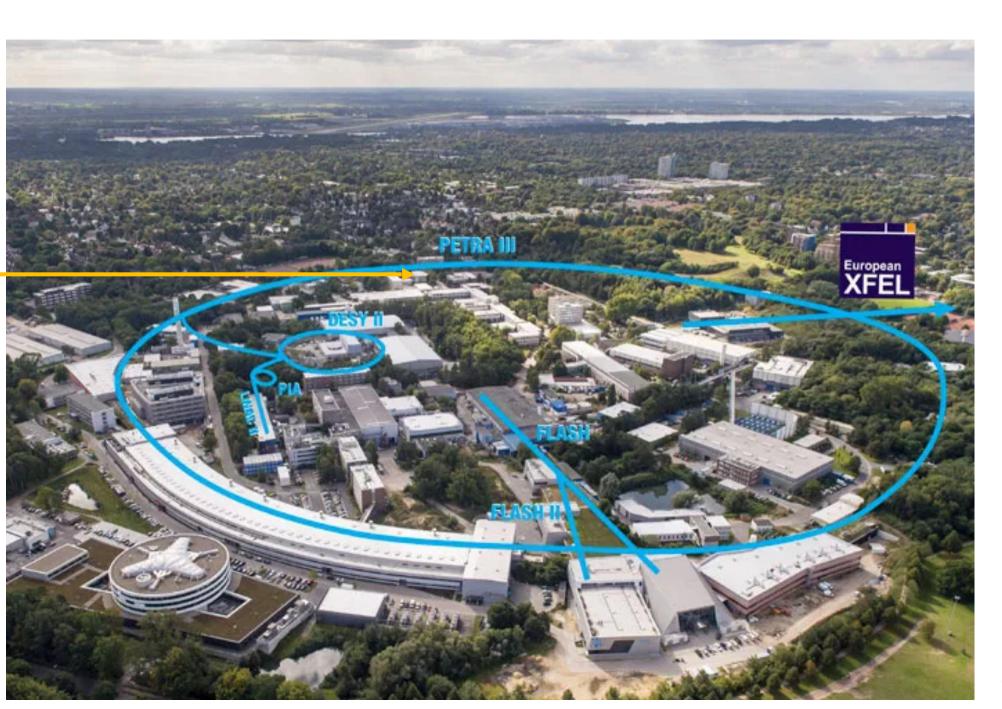
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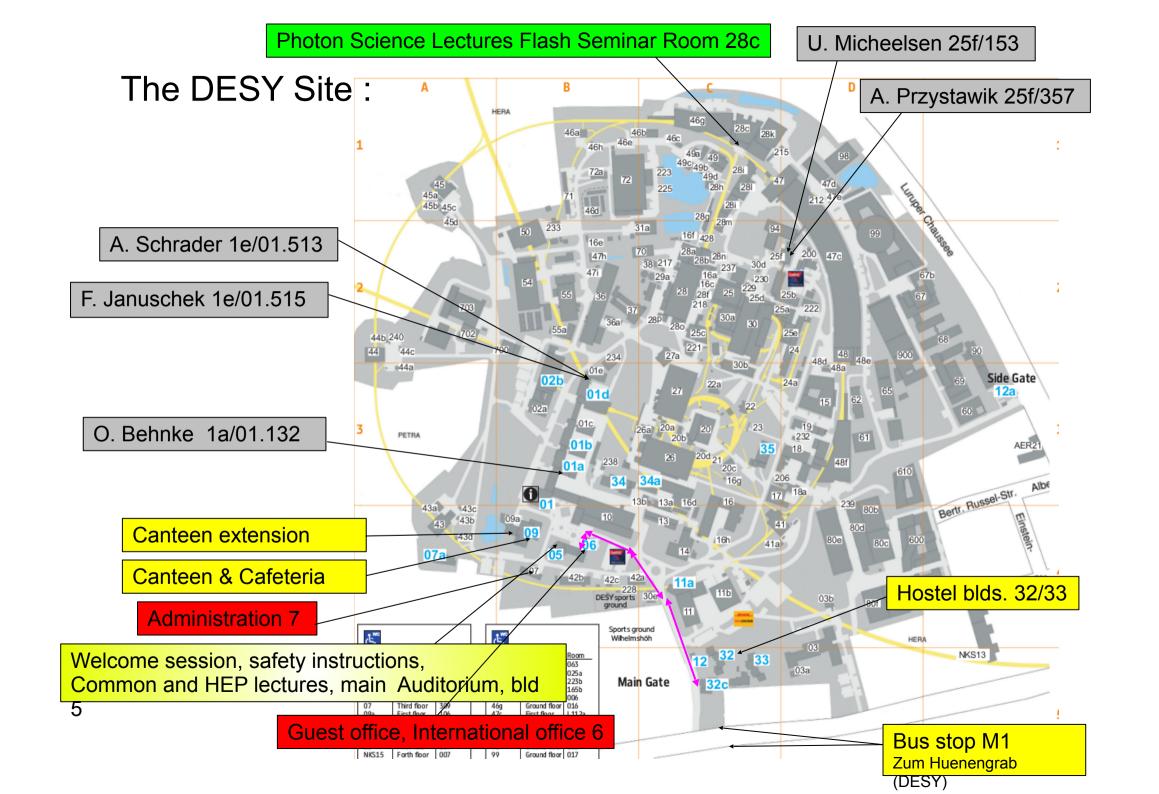
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- Norway, Pakistan, Palestine, Phillipines, Poland, Romania,
- Russia, Slovakia, South-Africa, Spain, Switzerland, Taiwan,
- Thailand, Turkey, United Kingdom, Ukraine

## We welcome 58 Summer Students onsite and 18 Remote

## **DESY Site at Hamburg**

We are HERE now





## Organisers (core team)

- Olaf Behnke, Friederike Januschek, Andrea Schrader ← HEP (B)
- Andreas Przystawik, Ute Micheelsen ← Photon Science (A)

For all communications with us, please write to summie-org@desy.de

#### Information on handling of COVID-19 for DESY summer students 2022

July 17, 2022, O. Behnke

- Information on DESY's handling of COVID-19 can be found at the webpage <a href="https://www.desy.de/coronavirus/index\_eng.html">https://www.desy.de/coronavirus/index\_eng.html</a>
- The current valid guidelines are provided at <a href="https://www.desy.de/sites2009/site\_www-desy/content/e301782/e301873/e315086/220712\_DESYGuidelinesCorona\_eng.pdf">https://www.desy.de/sites2009/site\_www-desy/content/e301782/e301873/e315086/220712\_DESYGuidelinesCorona\_eng.pdf</a>
   Please have a look, among other things DESY strongly recommends
  - to wear FFP2 masks in closed rooms (such as the DESY auditorium, offices, etc.)
  - and to keep distances, e.g. in the main auditorium please use only every 3rd seat
- Please be aware that when you travel in Hamburg with the public transport (HVV): wearing of masks is obligatory.
- Your group at DESY is responsible for supplying you with masks and rapid covid-19 antigen tests, once you start your work project
- It is recommended that you frequently test yourself, in particular also if you feel only mild symptoms of a possible infection. If the test result is positive then please stay in your Hostel room and contact the DESY health service by writing an email to <a href="https://hostel@desy.de">health.service@desy.de</a> They will discuss with you further measures. Please also write an email to <a href="https://hostel@desy.de">hostel@desy.de</a> and to your supervisor(s) and inform them about the positive test. Please take note that PCR-test is not automatically needed and after five days and without symptoms another self test should be done. The health service will advise you on the exact steps.

## Your Research Projects at DESY

#### Program A:

Experiments with Synchrotron Radiation (Photon science)

- engage in fundamental and applied research in physics, biology, chemistry, crystallography, material and geological science.
- Some few students will work in the European XFEL project.

#### Program B:

Research in Elementary Particle Physics (High energy Physics)

- Experiments ATLAS, CMS, preparations of future experiments (FTX group),
   Belle II, ALPS II and LUXE at DESY
- Accelerator: DESY accelerators, Plasma wake field
- Theory: Collider phenomenology (QCD, Higgs, etc.), String, Gravity
- Scientific computing: Web technologies

## Your Research Projects at DESY

#### • Program A:

Experiments with Cynobrotron Dediction (Photon science)

Work project technical support:

All support is provided locally by the project supervisors and their respective DESY groups, system administrators, etc.

You will be integrated in the DESY groups like normal researchers, for work related questions ask your supervisors or group secretaries!

- I neory: Collider pnenomenology (QCD, Higgs, etc.), String, Gravity
- Scientific computing: Web technologies

## Your Research Projects at DESY

**Experim** 

Program What we expect from you:

On-site students Remote students:

 engag chemi

Work duration: (including lecture time)

> 39 h per week max. 39 h per week

Some

 Program Researd

Final work Report:

o(10) pages

at least few pages

Experi

Scient

All students should have the chance to present their Accele project work and results at least at once to their DESY Theory group (e.g. towards the end of the project)

General recommendation for project work:

→ don't be shy, be pro-active and don't hesitate to ask your supervisors questions and give feedback!

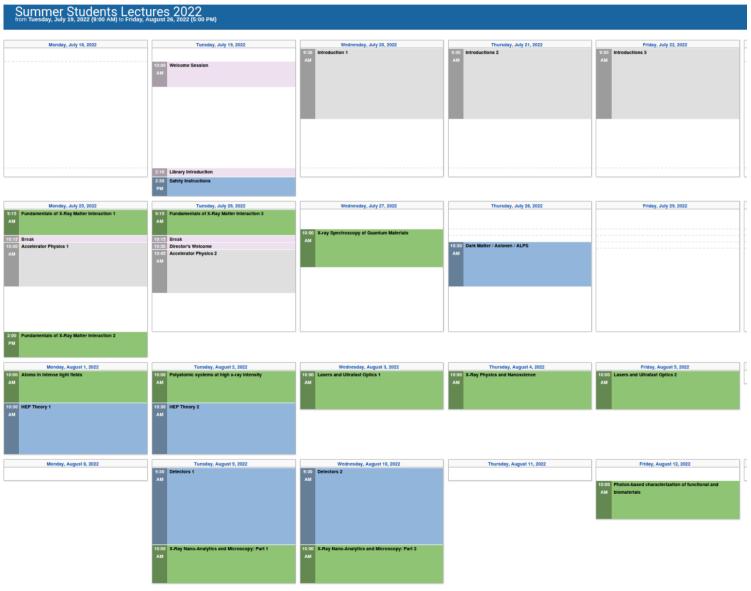
X group)

## Computing infrastructure at DESY

- DESY has its own **computing centre** in bld. 2B (worth a visit)
- At the hostel use following WLANs:
  - DESY Guest Net (a bit slow, easy registration with web interface)
  - Eduroam (you have to register)
- Software: For Mathematica, Matlab and Origin DESY has only a limited number of licenses:
  - Discuss any needs with your supervisor
  - Run only one process at a time and finally close the program

## Lecture programme

- By DESY researchers
- Provide background on DESY research



#### Lecture types:

- Common
   all lectures not marked in the agenda with HEP Lectures: or PS Lectures:
- **HEP** (for B summies)
- PS (for A summies)

We recommend you to attend the common lectures and either the HEP or the PS lectures but not both of them

#### Communication

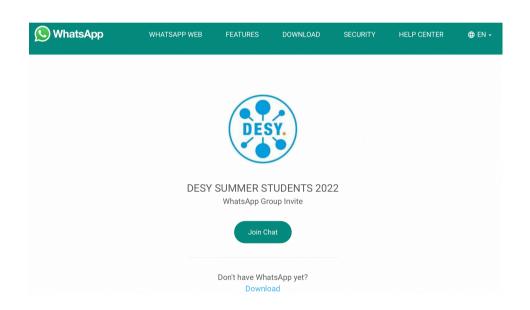
Between summies using social media: → organise yourself

## In 2021 the summies used: DISCORD and WHATSAPP GROUPS.. in 2022 we have so far



https://chat.whatsapp.com/Ic7JMOK7EGl5Wu0WtwTkWp

Thanks to Carolina and two other summies for creating this group



We will keep communicating with you on program related matters via email:

- → please write to <u>summie-org@desy.de</u>
- → we will write to your email addresses (or to your DESY email address, let us know if you prefer that)

Main page

https://summerstudents.desy.de/hamburg/

Message board:

https://www.desy.de/f/students/summer home 2022.html

Special events and announcements

- Tuesday 19 July, 10:00-11:00, DESY auditorium building 5:
   Welcome Session: Welcome talk and personal Check-In
   with the DESY summerstudent team, please bring all the necessary
   documents mentioned in <u>Administrative procedures</u> with you. The
   webpage for the welcome session is <u>here</u>.
- Travel reimbursement: Please hand in the reimbursement sheet at the DESY travel department: C. Tornau, and K. Koch, bld 7/401, Opening hours: tuesday thursday, mornings and afternoons
- Thursday 21 July at 11:15, stairs at entrance to foyer of DESY auditorium:
   A photo of the summer students will be taken after the first lecture.
- Friday 22 July, 18:00 22:00, DESY Canteen Extension bld. 9:
   Welcome Dinner with buffet and drinks
- Monday 25 July 14:00 16:00 and Tuesday 26 july 14:00 16:00:
   Guided tour around the DESY site; meeting point: Foyer DESY auditorium
   We will split, up to 30 students can participate on each day:
  - Monday: Tours are mainly reserved for students working on B1-B6 projects. Please register <u>here</u>.
  - Tuesday: Tours are mainly reserved for students working on A1-A6 projects. Please register <u>here</u>.

- Thursday 11 August:

  Guided tour around the XFEL site in Schenefeld (experimental halls): The
  tour will start in the morning and end in the afternoon, details TBA.
- Friday 26 August, the DESY Zeuthen Summies will visit DESY Hamburg, lets see if we can organize some social event, details TBA.
- Thursday 8 Sep 9:30 16:00, SR4:
   Final Students session with ~20 representative brief presentations by summies on their work projects, and a course review, details TBA.

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Please take note of limited opening times.

- Please hand in your sheet together with all receipts
- You can hand in the sheet at the Reisestelle in bld.
  7, fourth floor, office 401, or send per "Hauspost"
- If you have any questions please write an email to <a href="mailto:christina.tornau@desy.de">christina.tornau@desy.de</a>

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© Can Stock Photo - csp2566562

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## Life on the DESY campus

Practical information on the DESY campus:

→ DESY booklet

https://welcome-services.desy.de/sites2009/site\_guest-services/content/e56138/WelcomeBooklet2021\_eng.pdf

Printed version in your welcome bag :-)

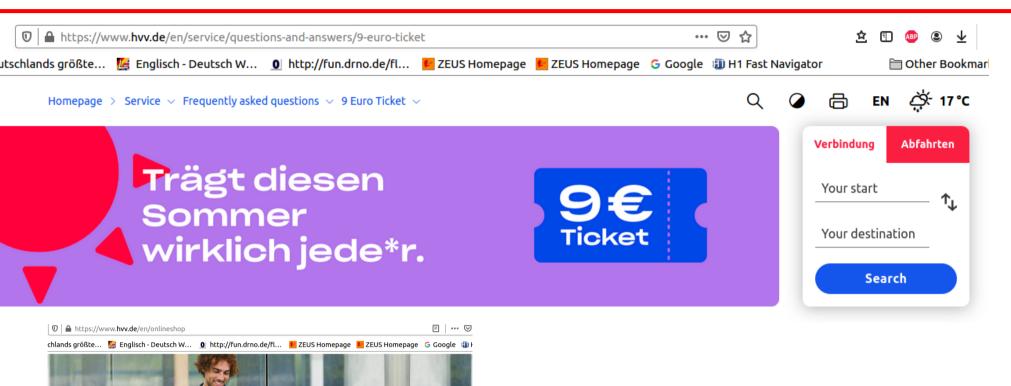
#### Life in the DESY Hostel – few hints

 Missing equipment (kitchen, cleaning, etc.) or other requests/complaints → don't hesitate to email <a href="https://hostel.service@desy.de">hostel.service@desy.de</a> (or visit them in their office 06/118)

 DESY salary payment end of August and in September: hostel accommodation costs are deduced so total amount of paid out money may appear to be not so high

## Public transport routes/schedule

#### www.hvv.de/en/index.php



#### Single, Day, Weekly Tickets and 9 Euro Ticket

#### Buy your ticket online and off you go

Buy your ticket here and print it out or call it up on your smartphone – your meinhvy account makes it possible.

You get 7 % off when you buy single, day and supplementary tickets this way (weekly tickets and the Hamburg CARD are excluded) and an extra bonus is that you can buy tickets up to 14 days in

A ticket which is bought at the Online Shop is only valid for the person named on it on the chosen day of travel and in combination with a valid photo ID. No refund is possible.

#### FAQ on print-it-yourself tickets

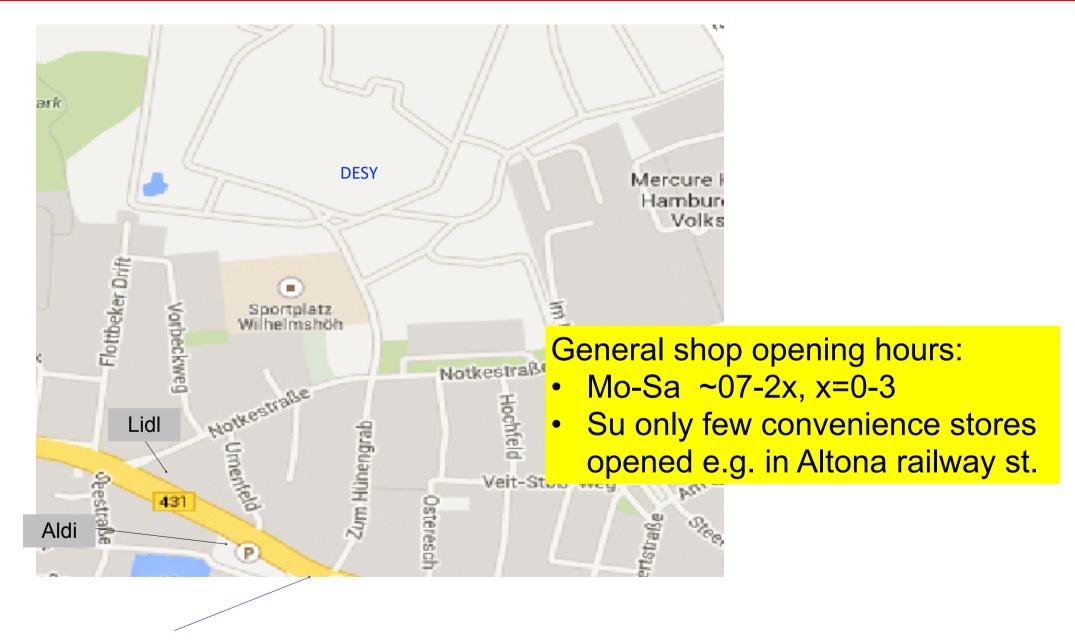
Special monthly season ticket

Single Tickets Single Ticket 9 Euro Ticket Single Ticket Citycard Single Ticket Child

Day Tickets All Day Ticket All Day Ticket Child 9am Day Ticket 9am Group Ticket

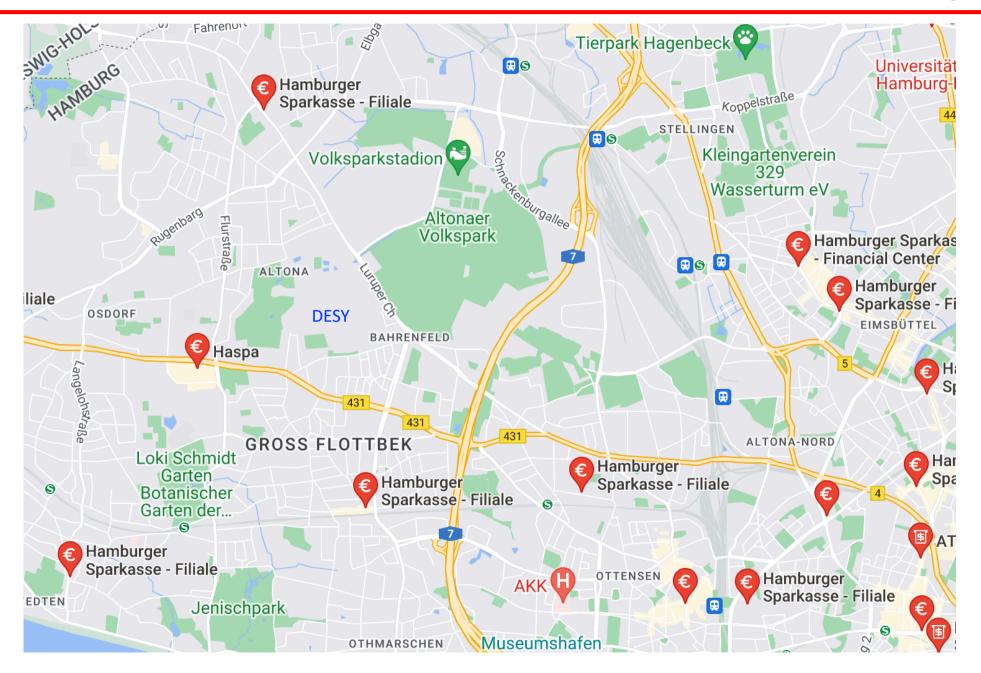
With the 9 Euro personalized monthly ticket you can go around with all public transport in Hamburg (and in Germany, with regional transport)

## Some (cheap!) supermarkets nearby

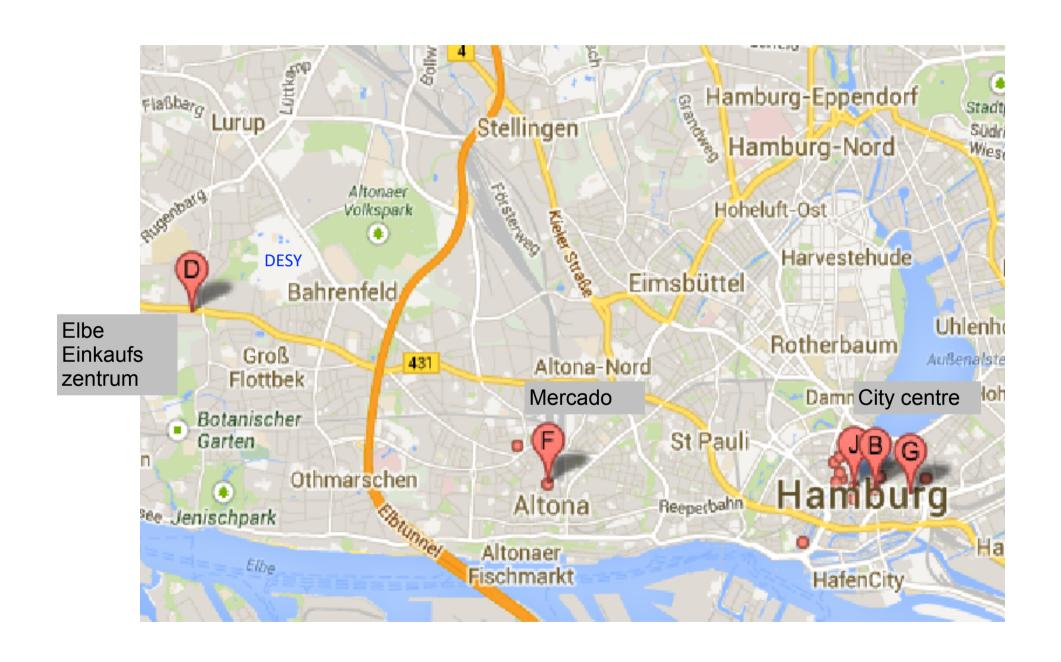


Weekly market: we + sa  $08-13 \rightarrow$  fresh products (more expensive)

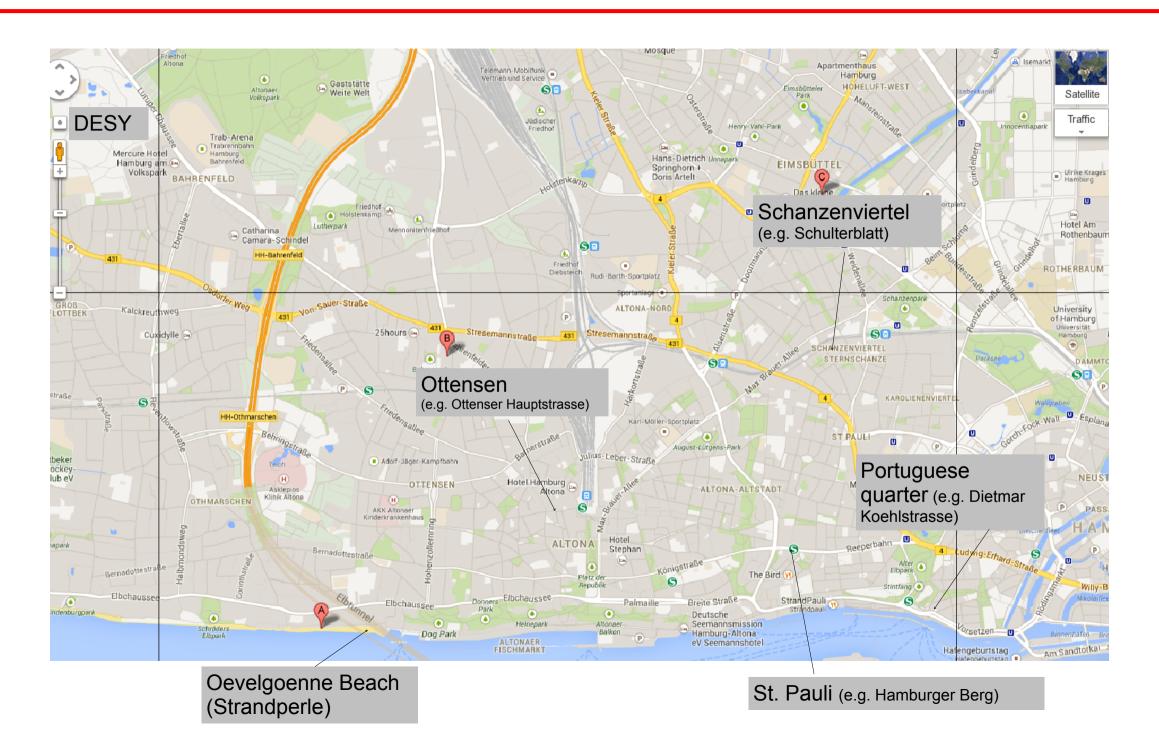
## HASPA Bank branches +ATMs in the vicinity



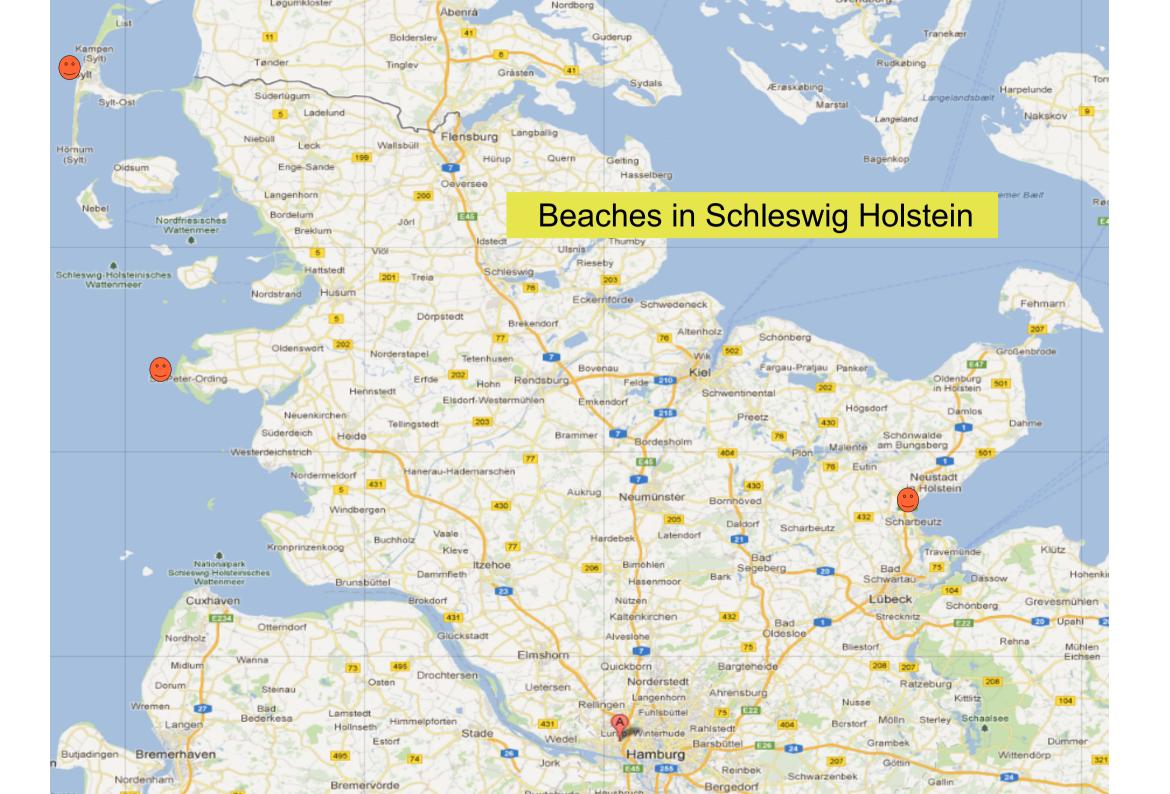
## Shopping centers (selection)

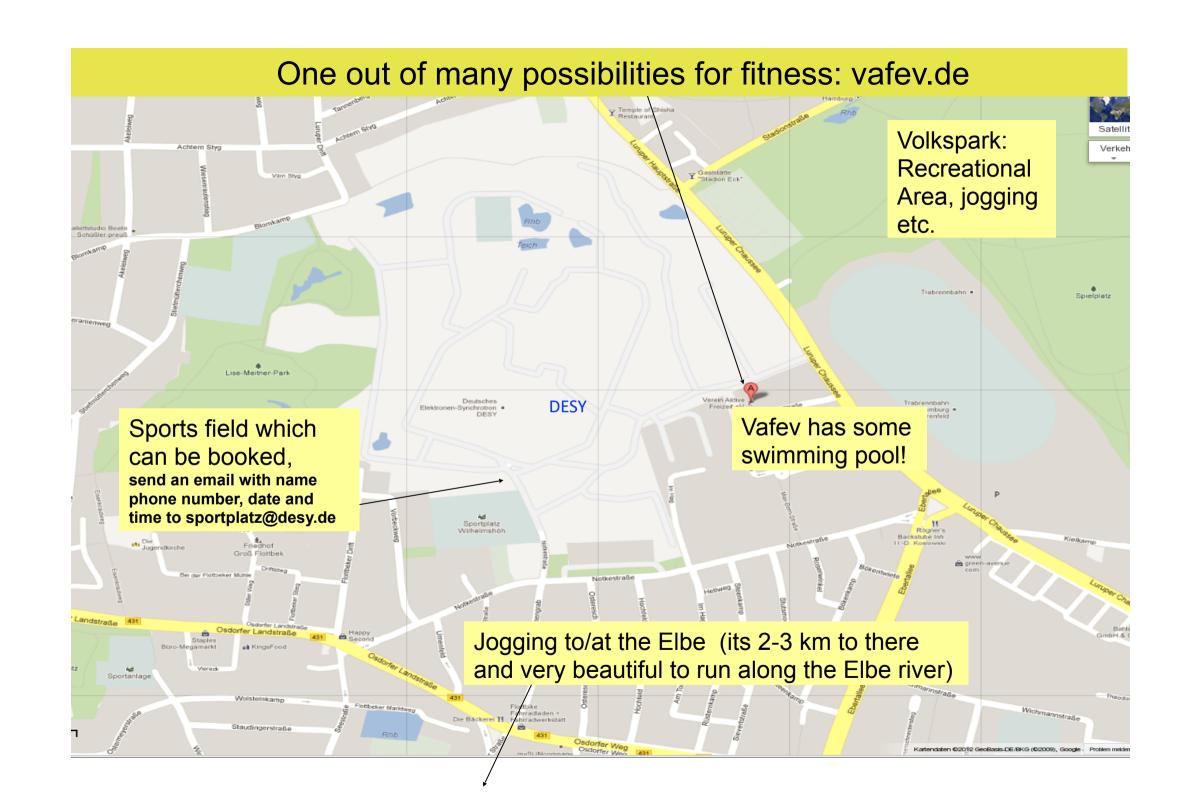


## Cool places, Dinner, Nightlife



#### Naturschutzgebiet Sports: swimming pools in Hamburg: google 'Hamburg Schwimmbad' Appen-Unterglinde Hummelsbüttel Wellingsbüttel Flughaten Hamburg Niendorf Farmsen - Berne Halstenbek Golfclub Ohlsdorf Bramfeld Eidelstedt Steilshoop 0 Lokstedt Rahlstedt Hamburg-Nord Schleswig-Holstein Harvestehude ♦ Windpark Marienhöhe Barsbüttel Wittenbergener Falkenstein Groß Flottbek Altona-Nord Blankenese Naturschutzgebie Othmarschen Hamburg Neßsand Klostertor Altonaer Fischmarkt Finkenwerder E45 Rothenburgsort Steinwerder Kleiner Grasbrook Waltershof Naturschutzgebiet , Billbrook Ladekop Veddel Ladekop Reiherstieg Estebrügge Francop Moorfleet Brakenburg Wilhelmsburg Rübke Wasserpark & Neugraben - Fischbek Ochsenwerder





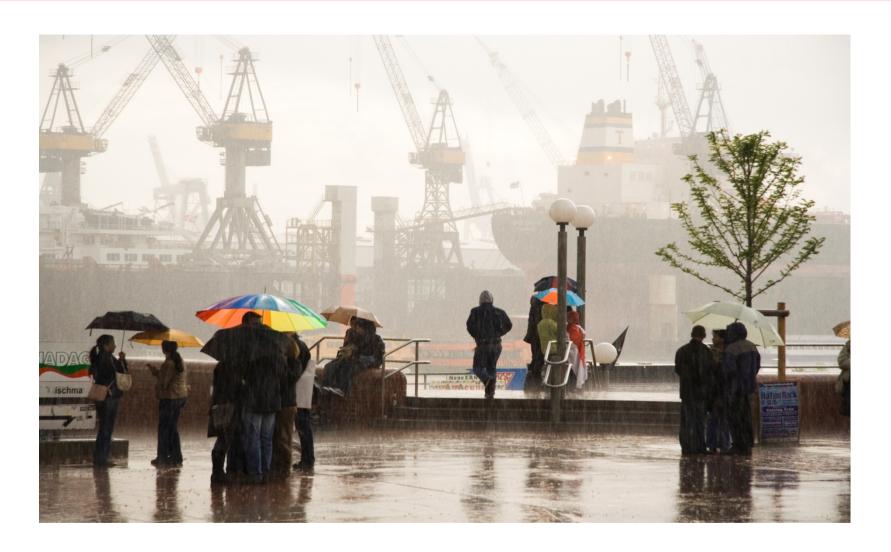
#### This & That

- · Bikes: at DESY there is a Stadtrad station http://stadtrad.hamburg.de
- Discover Hamburg with a boat take ferry line 62, you can use standard public transport tickets



Drinking water: in Germany you can drink the water from the tab,
 it has highest purity, better than mineral water, no need to boil it

### We have to talk about ...



- The picture file is named "Typical\_Hamburg\_weather.jpg"
- Weather can change quickly here, please check weather forecasts, e.g. search for "wetteronline.de Hamburg"

## **Typical Hamburg Dishes**



Labskaus



Rote Gruetze mit Vanillesauce

## Next steps today

#### Registration in Foyer or **outside**:

- General check-in (if you have not yet done it) and get your welcome bag (all)
- Personnel Department (all)
- International office (all non-german citizen)
- Travel Reimbursement
  - For questions write to <a href="mailto:christina.tornau@desy.de">christina.tornau@desy.de</a>
  - During next days/weeks: hand in filled form + receipts (at bld. 7/401)

Tip: visit first the person with the shortest queue of waiting students

- ~10h45 Meet your Supervisor in the foyer or outside, chat, visit workplace
- 14h00 Library introduction (here in auditorium)
- 14h30 Safety instructions for all B1-B6 students (here)
  - Sign attendance sheet during session

## Backup slides

