



WELCOME TO HASCO 2023!

17-25 July 2023

Sreelakshmi Sindhu

Welcome to Göttingen!

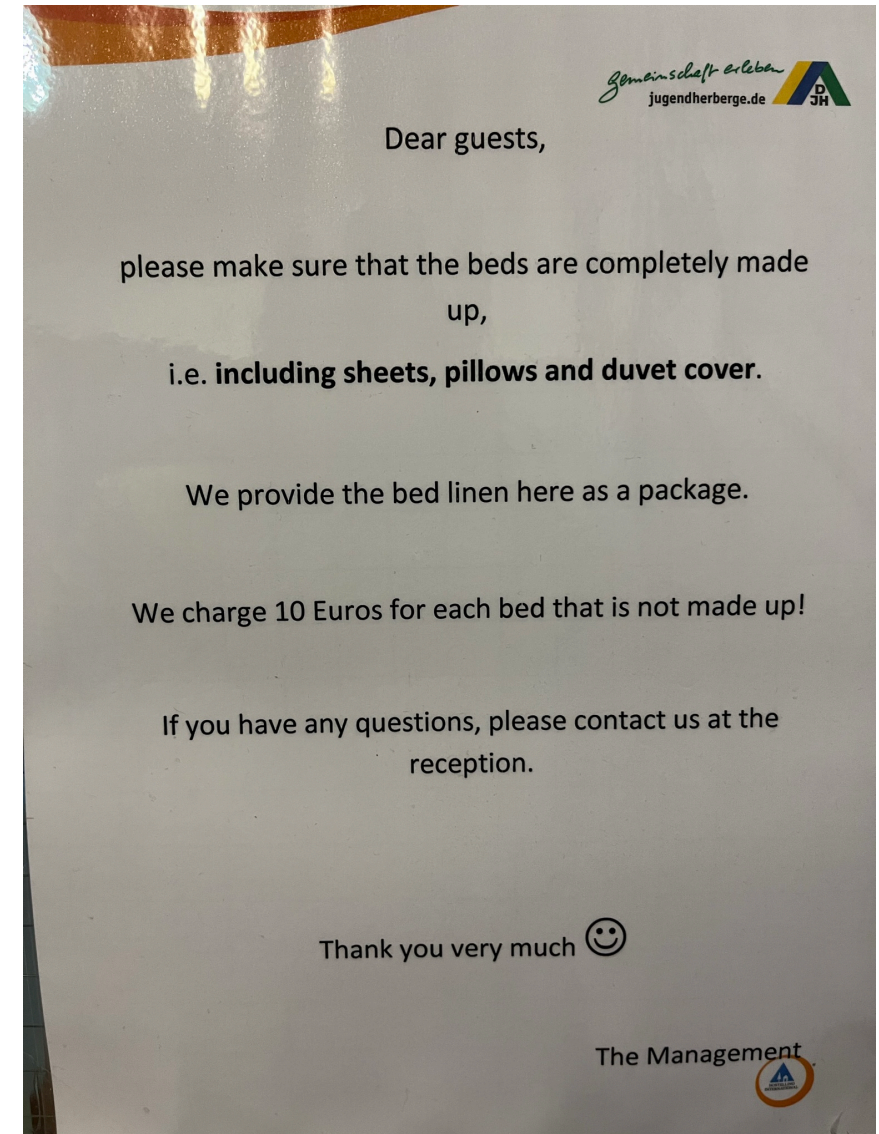


46 Nobel Prize laureates have studied, taught or made contributions here. The city of science!

Important locations:

- **Youth Hostel:** DJH Jugendherberge, Habichtsweg 2, 37075 Göttingen
- **Physics Department:**
Friedrich-Hund-Platz 1, 37077 Göttingen
- **Friday evening lecture:** Adam-Von-Trott-Saal, Alte Mensa, Wilhelmsplatz 3, 37073 Göttingen
- **Monday Dinner:** Pagoda Restaurant,
Rudolf-Wissell-Straße 24, 37079 Göttingen
- **Bowling:** Werner-von-Siemens-Straße 10, 37077 Göttingen

- You have already collected keys for your rooms
- Collect the bedding from the ground floor (near the entrance) and **make your bed**
- **Breakfast** at the youth hostel every day starts at **07:30**
- Volunteers will guide you to the Physics department each morning, must **leave by 08:15**
- **Dinner** is from **18:00 -19:00** at the youth hostel on 17.07,18.07,19.07,20.07,21.07
- The main door will be closed at night to open it use the following code **1722#**



- Reception times: 8:00 -14:00 and 16:00 - 20:00
- Quiet time between 22:00 - 7:00
- YH has free wifi
- **Make sure you close the windows when you leave the room**
- Be respectful to the YH and its employees
- Be quiet when returning!
- Don't drink or smoke in the rooms!
- Dedicated instructions by the youth hostel can be found in every room

Daily schedule

09:00	Welcome	09:00	Detector Physics - Marcello Bindi (Georg August Universitaet Goettingen (DE)) Maxim TITOV (CEA Saclay)	09:00	ROOT Lecture - Jonas Rembser (CERN)	09:00	Quantum Chromodynamics - Part 2 - Daniel Reichelt (Durham University, IPPP) Daniel Reichelt
09:30	Introduction into Hadron Collider Physics - Lene Kristian Bryngemark (Stanford University (US))						
Morning sessions							
		11:15	Introduction to Statistics - Tomas Dado (Technische Universitaet Dortmund (DE))	11:15	ROOT Tutorial - Jonas Rembser (CERN)	11:15	Top Quark Physics - Nedaa Alexandra Asbah (Harvard University (US))
Lunch							
14:00	Standard Model and Electroweak Physics - Ulla Blumenschein (University of London (GB))	14:00	Advanced Statistics - Machine Learning - Federico Meloni (Deutsches Elektronen-Synchrotron (DE))	14:00	Quantum Chromodynamics - Part 1 - Daniel Reichelt Daniel Reichelt (Durham University, IPPP)	14:00	Heavy Flavour Physics - Christoph Michael Langenbruch (CERN) Christoph Michael Langenbruch (Heidelberg University (DE))
Afternoon sessions							
16:15	Physics of the Higgs Boson - Hannes Mildner (Johannes Gutenberg Universitaet Mainz (DE))	16:15	Physics Beyond the Standard Model (Exotics) - Antonio Sidoti (Universita e INFN, Bologna (IT))	16:15	Physics Beyond the Standard Model (SUSY) - Claudia Merlassino (University of Oxford (GB))	16:15	Accelerator Physics and the LHC - Ewen Hamish Maclean (CERN)
Dinner							
19:00	Social Event: Barbecue			19:30	Social Event: Historical Walking Tour	19:30	Public Evening Lecture: First observations of the communicators of weak interactions, the W and Z bosons, 40 years ago at CERN - Hans Hoffmann (CERN)
		20:00	Social Event: Bowling				
Evening program							

You can find all details on the Indigo agenda: <https://indico.cern.ch/event/1243861/>

In the timetable you find information on:

- What is coming up next?
- Where is it happening?
- Details on the item itself

There will be Short coffee breaks in between lectures

There is eduroam in campus, if you do not have eduroam, contact me after the talk, I will give you a voucher

- **Lunch:**
 - At the [lunch box, Goettingen](#)
 - The menu with list of allergens can be found here: [link](#)
 - Carry your student ID to get student discount
 - Cost per meal €3-4 with student ID, €5-7 otherwise
 - Volunteers will guide you there
- **Coffee/tea/snacks:**
 - Can be purchased at the cafeteria ([CaPhy](#)), coffee costs €1-2
- **Payment:**
 - **Can be made using University guest cards ONLY!**
 - Guest cards can be collected and money added using this machine
 - Recharge machine is in the Cafeteria in the physics department
 - It accepts all kind of card/NFC payment options
 - It will take 1-2 minutes per person, **please find time before the first lunch break to get your card and charge it** with some money. Estimate lunch and coffee for 5 days.
- **Remember:** tap water is drinkable in Germany



Tuesday:

- Group picture during coffee break
- **BBQ at YH, 19:00**
 - Food provided
 - Minor charge (2 euros) for drinks

Wednesday: Bowling at 20:00

- Sign up with me
- Costs €4.9 with your student ID otherwise €5.6
- If haven't paid already. **Paypal at** sreelakshmi.sindhu@phys.uni-goettingen.de

Thursday: History walking tour

- Meet at **19:30** at YH after dinner

Friday: Special evening lecture

- On the discovery of the W boson 40 years ago, by former CERN director Hans Hoffmann
- At 19:30 at the inner city



Saturday: Treasure hunt through the city

- Meet at **10:00** at YH
- Solve riddles and identify interesting spots in the Gottingen inner city
- Also other fun side quests

Sunday: Bus trip to mount Brocken and hiking

- Meet at **9:00** outside YH
- Bring hiking boots, enough water, sun protection and some snacks
- Collect lunch bags from the youth hostel

Monday: School dinner at Pagoda at 19:30

- Food included in school fees
- Please pay for your drinks

Photo competition:

- Upload your best pictures to <https://owncloud.gwdg.de/index.php/s/yWPHmP43YZGJkRg>
- At the end of the school we will vote for the best photo
- Win a small price



Taking the bus in Göttingen

To travel via bus **FAIRTIQ** app is the **best option**

- 50 Students buying the tickets on the bus would be too difficult
- You can do it directly on the app
- Tickets are also cheapest on the app
- **Get it now!**



The screenshot displays the FAIRTIQ app's presence on a digital store. At the top, the app's icon (a red square with a white 'Q' and a bus stop sign) is shown next to the name 'FAIRTIQ' and developer 'FAIRTIQ Ltd'. It includes a 3.890-star rating and an 'Install' button. Below this, a series of four panels illustrates the app's workflow: 1. A smartphone showing the app's main interface with a 'START' button. 2. A 'START' button with the text 'Swipe START to hop-on'. 3. A 'Ticket' screen showing a QR code and validity details. 4. A 'STOP' button with the text 'Swipe STOP hop-off'. Below the panels, a paragraph explains that the app allows for on-the-spot ticketing, charging the best available price after the journey, and supporting various transport modes like buses, trams, and trains. The text concludes with 'How it works'.

Public transport tickets made easy

With FAIRTIQ you don't have to buy a ticket in advance, indicate your destination or struggle to find the right zone. You will always be charged the best available price, once you have completed your journey. It doesn't matter how often you switch directions, or even if you change between trains, buses and trams. With FAIRTIQ there are no hassles, no complications, just smooth and easy travel at fair prices!

How it works

Some of the bars and restaurants in the inner city:

- Zum Szültenbürger
- Bullerjahn
- Z.a.K
- Villa Cuba
- Myer's
- Nudelhaus
- Sambesi
- Fellini
- Burgeria
- Augusta
- Kartolffelhaus
- Havanna
- Nautibar
- Thanners
- Dots
- Cron & Lanz
- ...



Checking out on the last day

- Hostel checkout is at **7:00 on Tuesday (25.07)**
- **Marcel and I will be here to make sure you are up and out in time**
- **Hand over the keys to us, NOT to the youth hostel!**
- **Please clean your room**
- **Remove the bedding and put them in the containers on the ground floor**
- Do not forget any luggage
- Your luggage will be transported for you to the Physics department by volunteers with a van
- While you are in the closing ceremony, your luggage will be guarded by volunteers



Contacts in case of emergency

HASCO 2023 Telephone Numbers	<div> <div>  <div> Hadron Collider Summer School - HASCO Göttingen, 17.07. - 25.07.2023 </div> </div> <div>  <div> GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN <small>IN PUBLICA COMMODA SEIT 1737</small> </div> </div> <div>  </div> </div>
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Janika Jerke & Vicky Tanger ii-physik-sekretariat.upp2@phys.uni-goettingen.de	+49 (0) 551 39 27630 or 27632 <i>office</i>
<u>Emergency Police</u>	110
<u>Emergency doctor / fire service</u>	112
Taxi services	+49 (0) 551 65 000 +49 (0) 551 69 300 +49 (0) 551 48 48 48 +49 (0) 551 34 034
Jugendherberge Göttingen Habichtsweg 2 37075 Göttingen goettingen@jugendherberge.de	+49 (0) 551 57622

In summary

- Feel free to ask us questions whenever you have one
- All of this information is available on [Indico](#), including these slides
- Get to know your fellow students, the physics is important, **the social program is JUST as important!**
- Also, if you haven't already signed up:



[WhatsApp group](#)



[Facebook group](#)

Enjoy HASCO and Göttingen!

