

#### HASCO School 2023 - welcome

## **Arnulf Quadt** Georg-August-Universität Göttingen





- + ENLIGHT (Gent, Uppsala, Bratislava)
- + Europe (UK, Germany, Belgium, Italy, Switzerland, Spain, Czech Republic, Finnland, Norway, Rumania, Sweden, Switzerland, ...)
- + Africa, Asia, India, America



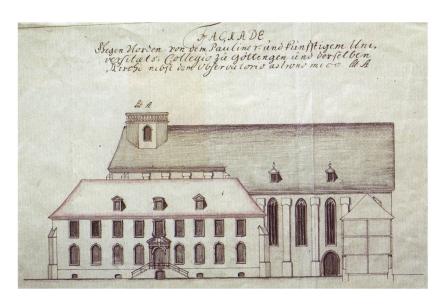
#### **HASCO** and Covid

- 50 participants in presence, 12 virtual participants
- The Corona pandemic is not yet over. Safety measures still exist, albeit at reduced level
- face mask indoor not obligatory, but recommended
- **Desinfect / wash hands regularly**
- **Keep distance**
- Follow instruction of orga team, no tricks
- If any tests turn out positive or you develop symptoms
  - → inform orga team (Arnulf, Baptiste, Stephen)









1737...

# Göttingen University



... 2022



#### **Facts and Figures**

- > Students 2015/16: 31.298
- 12 % international students
- Increasing number of students (from 24.380 (2010/11) to 31.298 students)
- More than 190 study programmes
- 5 Graduate schools (with more than 3.700 doctoral students)



### Göttingen Campus





#### **International Study Programmes**

- more than 50 international study programmes
- mainly international master programmes
- 14 joint international study programmes with partnerinstitutions (double degree / joint degree programmes)





### Infrastructure in Learning and Teaching

- Establishment of new seminar rooms and internships with state of the art equipment
- Investments in multi media lecture rooms
- Excellent University Library
- New teaching and learning building (650 student working) places)



# Physics in Göttingen



Georg Christoph Lichtenberg



Carl Friedrich Gauß



Max Born



Werner Heisenberg



Peter Debve



**James Franck** 



Maria Göppert-Mayer



- 10 million Euro/year (University)
- 7 million Euro/year (external)
- 30 professor positions
- 150 scientists (20% international)
- 100 technical and admin. staff

#### **STUDENTS**

- 1000 students (undergr. & grad.)
- 150-200 beginners per year
- 20% female students
- 5% international students (up to MSc)
- 25% international PhD students



08:00 08:30 08:00 08:30 10:00 10:30 11:30 12:30 13:30 14:00 15:30 16:30 16:30 17:00 17:30 18:30

20:00 20:30 21:00

08:00 08:30 09:30 10:00 10:30 11:00 11:00 12:00 13:30 13:30 14:30 15:30 16:30

### Schedule

# ERASMUS-IP Hadron Collider Physics School (HASCO) 2023

Su, 15.07.
Irival in Cottingen
rein station & youth
ostel).
registration
dinner

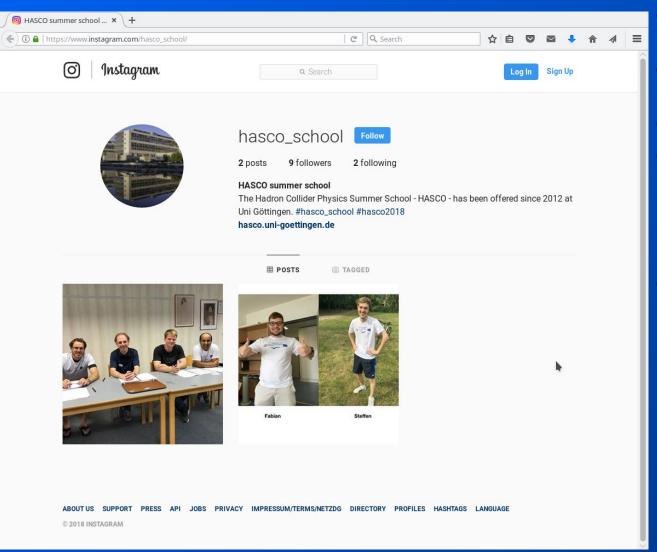
Mo, 16.07.	Tu, 17.07.	We, 18.07.	Th, 19.07.	Fr. 20.07.	Sa, 21.07.	Su, 22.07.
breakfest	breakfest	breekfest	breakfest	breakfast	breekfest	breakfest
Intro & welcome		discount.	Charles of the Control of the Contro	12/22/11/20		
hadron collider	QCD and jets	ROOT	Statistics	QCD and jets		
physics and Kinematics (1)	(theory, 2)	Lecture (2)	Lecture (2)	(experiment, 1)		
Constitution (1)	and the second second				whiteson	
eminer preparation	seminar preparation		seminar preparation		"Dinga des Wissens"	
in groups	in groups		in groups	in groups		
lunch	tunch		lunch	lunch	Paulnerstone	Excursion 1 Wemigerode (Harz)
	1,000		No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,	0.774773	free time in	visit to the city an
hadion collider	535	1-11	ROOT & stats.	2504 0000	Göttingen	
physics and	ROOT	trip to Wolfsburg and	Tutorial (1) @ Uni	QCD and jets		Brocken mountain
Kinematics (2)	Lecture (1)	visit of pheeno physics exhibition	break	(experiment, 2)		
break.	break	70.000000000000000000000000000000000000		break-		
QCD and jets	Statistics		ROOT & stats	student presentations		
			Tutoriai (2) @ Uni			
(theory, 1)	Lecture (1)		student			
			presentations			
dinner	external	dinner	dinner	dinner	optionel dinner	-
	dinner in				in Gottingen city	
						external dinner i
	restaurent Felini				In Youth Hostel	Wemigerode

Mo, 23.07.	Tu, 24.07.	We, 25.07.	Th. 28.07.	Fr. 27.07.	
breakfast	breakfest	breekfast	breakfast	breakfest	
electroweak physics (1)	electrowsek physics (2)	top querk Physics (1)	SUSY and Exetics (2)	student presentations	
440			7	atudent	
minar preparation in groups	detector physics	top querk Physics (2)	student presentations	presentations	
lunch	lunch	lunch	lunch	lunch	
LHC Accelerator	Higgs physics	SUSY and Exotics (1)	written ecemination	school summary & certificates	
break	break	break	break	breek.	
student presentations	student presentations	student presentations & evaluation	student presentations	departure	
dinner	dinner	dirner	externel dinner at Burg Plesse		

- Lectures & tutorials
- ROOT training session
- written examination on Monday 14-16 → 3 ECTS credits
- Results, certificates and departure on Tuesday (26.07.2023)
- external dinners and BBQ → buffet style for all dietary restr.
- Tuesday morning: group photo
- Tuesday evening: BBQ at youth hostel
- Wednesday evening: group bowling
- Thursday 19h00 at youth hostel: history walking tour
- Friday guest speaker Hans Hoffmann on 40-year anniversary W/Z discovery
- Monday exam
- Monday afternoon: visit of old Gauß observatory
- Monday evening: Dinner in restaurant Pagoda
- Saturday treasure hunt
- Sunday excursion to Harz mountains (hiking)
- Tuesday colloquium and closing session
- Evaluation of school



# Photo competition



- Upload your best pictures to owncloud.gwdg.de
- We will make a preselection and reposte the best ones every day.
- We will have a vote on the best ones.
- Prizes will be awarded on Tuesday.
- Can also post pictures in
  - WhatsApp group
  - Facebook group
  - instagram



### More info



- Coffee breaks → CaPhy (get & load electronic guest card)
- Lunch → Lunch box (get & load electronic guest card)
- Film team and photos (see HASCO web page)
- **WLAN**
- Student-ID & GöVB (FAIRTIQ)
- Bus schedules:
- School fee receipts and reimbursement
- Secretariat (Janika Jerke, Vicky Tanger)

#### The Team:

Sreelakshmi JS

Steffen Korn

**Baptiste Ravina** 

**Arnulf Quadt** 

Janika Jerke

Vicky Tanger

