



HASCO School 2024 - welcome

Arnulf Quadt Georg-August-Universität Göttingen

The screenshot shows the HASCO website with a navigation menu at the top: Home, Partners, Programme 2012, Application, Material, Photos, Guest book, Contact. Below the menu is a banner for 'Hadron Collider School - HASCO' with a 'partners' link. The main content area features a map of Europe with blue dots indicating partner locations. To the left of the map, there are four entries for partner institutions, each with a flag icon and contact information:

- France**
 - Université Blaise Pascal **Clermont-Ferrand**
Dr. Nabil Ghodbane
nabil.ghodbane@gmail.com
Laboratoire de Physics Corpusculaire
24, avenue des Landais, BP 80026
63171 Abière Cedex
 - Université Joseph Fourier **Grenoble**
Prof. Dr. Gerard Sajot
sajot@in2p3.fr
Laboratoire de Physique Subatomique et de Cosmologie
53 rue des Martyrs
38026 Grenoble Cedex
 - Université **Paris-Sud (XI), Orsay**
Dr. Dirk Zerwas
zerwas@lal.in2p3.fr
Laboratoire de l'Accélérateur Linéaire (LAL)
CNRS/IN2P3, B.P. 34
91898 Orsay Cedex
 - Institut de recherche sur les lois fondamentales de l'Univers, **Saclay**
Dr. Anne-Isabelle Etievre
anne-isabelle.etievre@cea.fr
Institut National des Sciences et Techniques Nucleaires, CEA Saclay
Batiment 141, DSM/IRFU/SPP, CEA Saclay
91191 Gif-sur-Yvette Cedex
- Germany**
 - Georg-August-Universität **Göttingen**
Prof. Dr. Arnulf Quadt
aquadt@uni-goettingen.de
II, Physikalisches Institut
Friedrich-Hund-Platz 1
37077 Göttingen
- Italy**
 - INFN and University of **Bologna**
Dr. Alessandro Polini
alessandro.polini@bo.infn.it
Via XXV Luglio 7
47042 Cesenatico
 - Universita degli Studi di **Milano**
Prof. Dr. Attilio Andreatza
Attilio.Andreatza@mi.infn.it
Dipartimento di Fisica
Via Celoria 16
20133 Milano

+ **ENLIGHT** (Gent, Uppsala, Bratislava)

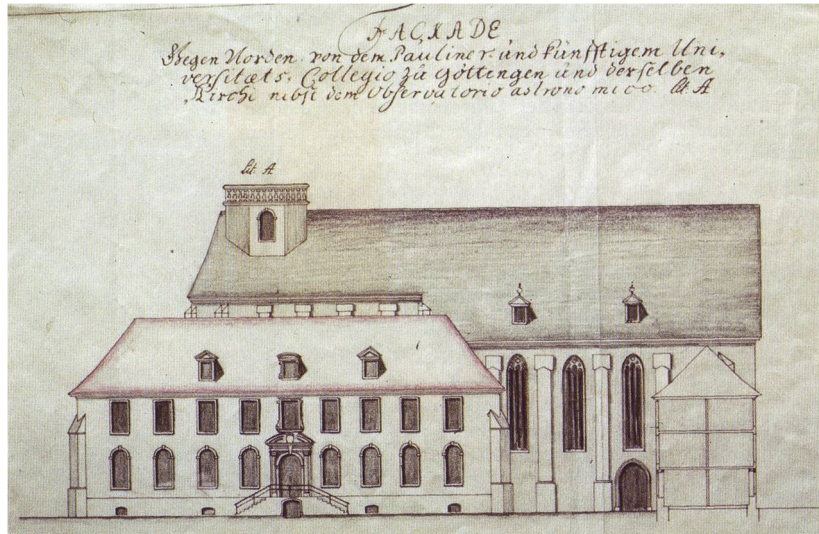
+ **Europe** (UK, Germany, Belgium, Italy, Switzerland, Spain, Czech Republic, Finland, Norway, Rumania, Sweden, Switzerland, ...)

+ **Africa, Asia, India, America**



University of Göttingen





1737...

Göttingen University



... 2024

Facts and Figures

- nr. Students: 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)



University of Göttingen

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 Debye



James Franck



Maria Göppert-Mayer

cmpb DFG Forschungszentrum Molekularphysiologie des Gehirns
DFG Research Center Molecular Physiology of the Brain

SFB705
Nanoscale Photonic Imaging



- 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



Schedule

ERASMUS-IP Hadron Collider Physics School (HASCO)2024

18:00
18:30
19:00
19:30
20:00
20:30
21:00

Su, 18.07.
arrival in Göttingen (train station & youth hostel)
registration
dinner

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Mo, 16.07.	Tu, 17.07.	We, 18.07.	Th, 19.07.	Fr, 20.07.	Sa, 21.07.	Su, 22.07.
breakfast	breakfast	breakfast	breakfast	breakfast	breakfast	breakfast
Intro & welcome hadron collider physics and Kinematics (1)	QCD and jets (theory, 2)	ROOT Lecture (2)	Statistics Lecture (2)	QCD and jets (experiment, 1)		
seminar preparation in groups	seminar preparation in groups		seminar preparation in groups	seminar preparation in groups	schlitten "Diege des Wissens" Paußenkiche	
lunch	lunch		lunch	lunch	free time in Göttingen	Excursion to Wernigerode (Harz) visit to the city and steam train ride to Brocken mountain
hadron collider physics and Kinematics (2)	ROOT Lecture (1)	trip to Wolfsburg and visit of phaeon physics exhibition	ROOT & stats. Tutorial (1) @ Uni	QCD and jets (experiment, 2)		
break	break		break	break		
QCD and jets (theory, 1)	Statistics Lecture (1)		ROOT & stats. Tutorial (2) @ Uni	student presentations		
dinner	external dinner in restaurant Felini	dinner	dinner	dinner	optional dinner in Göttingen city no dinner foreseen in Youth Hostel	external dinner in Wernigerode

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Mo, 23.07.	Tu, 24.07.	We, 25.07.	Th, 26.07.	Fr, 27.07.
breakfast	breakfast	breakfast	breakfast	breakfast
electroweak physics (1)	electroweak physics (2)	top quark Physics (1)	SUSY and Exotics (2)	student presentations
seminar preparation in groups	detector physics	top quark Physics (2)	student presentations	student presentations
lunch	lunch	lunch	lunch	lunch
LHC Accelerator	Higgs physics	SUSY and Exotics (1)	written examination	school summary & certificates
break	break	break	break	break
student presentations	student presentations	student presentations & evaluation	student presentations	departure
dinner	dinner	dinner	external dinner at Burg Plesse	



- Lectures & tutorials
- ROOT training session
- written examination on Friday 14-16 → 3 ECTS credits
- Results, certificates and departure on Monday (05.08.2024)
- external dinners and BBQ → buffet style for all dietary restr.
- Monday afternoon: group photo
- Monday evening: BBQ at youth hostel
- Tuesday evening: group bowling
- Wednesday 19h00 at youth hostel: history walking tour
- Friday exam
- Friday afternoon: visit of university museum “Forum Wissen”
- Friday evening: Dinner in restaurant Pagoda
- Saturday treasure hunt
- Sunday excursion to Harz mountains (hiking)
- Monday colloquium and closing session
- Evaluation of school



Photo competition

- Upload your best pictures to
→ see intro talk by Matthias (Sunday)
- We will make a preselection and re-post the best ones every day.
- We will have a vote on the best ones.
- Prizes will be awarded on Monday.
- Can also post pictures in
 - WhatsApp group
 - Facebook group
 - instagram

The screenshot shows the Instagram profile for 'hasco_school'. The profile name is 'hasco_school' with a 'Follow' button. It has 2 posts, 9 followers, and 2 following. The bio reads: 'HASCO summer school The Hadron Collider Physics Summer School - HASCO - has been offered since 2012 at Uni Göttingen. #hasco_school #hasco2018 hasco.uni-goettingen.de'. Below the bio, there are two tabs: 'POSTS' and 'TAGGED'. Under 'POSTS', there are two images: one showing four people sitting at a table, and another showing two people, Fabian and Steffen, standing outdoors. The bottom of the page has a footer with links: ABOUT US, SUPPORT, PRESS, API, JOBS, PRIVACY, IMPRESSUM/TERMS/NETZDG, DIRECTORY, PROFILES, HASHTAGS, LANGUAGE, and a copyright notice: © 2018 INSTAGRAM.



More info



- Coffee breaks → CaPhy (can pay electronically now)
- Lunch → Lunch box (can pay electronically)
- Film team and photos (see HASCO web page)
- WLAN
- Student-ID & GöVB (FAIRTIQ)
- Bus schedules:
- School fee receipts and reimbursement

- The Team:

Matthias Drescher

Steffen Korn

Baptiste Ravina

Arnulf Quadt

