Deutsche Physikalische Gesellschaft

DPG

DPG-Frühjahrstagung 2023

DPG Spring Meeting 2023

of the Section on Atomic, Molecular, Quantum Optics and Photonics (SAMOP)

with its Divisions
Atomic Physics, Mass Spectrometry,
Molecular Physics, Quantum Information,
Quantum Optics and Photonics

together with the Division
Physics Education

and the Working Groups
Equal Opportunities, Young DPG

Short Programme

5 – 10 March 2023

Leibniz Universität Hannover

Impressum:

Deutsche Physikalische Gesellschaft e. V.
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www.dpg-physik.de
Gerichtsstand: Königswinter

Eingetragen in das Vereinsregister (VR 90474) des Amtsgerichtes Siegburg. Die DPG fördert wissenschaftliche Zwecke. Sie ist nach § 5 Abs. 1 Nr. 9 KStG von der Körperschaftsteuer befreit, weil sie ausschließlich und unmittelbar steuerbegünstigten gemeinnützigen Zwecken i. S. der §§ 51 ff. AO dient.

Verantwortlich für den Inhalt:
Dr. Bernhard Nunner (Hauptgeschäftsführer)

WILHELM UND ELSE HERAEUS-STIFTUNG

AUSSCHREIBUNG FÖRDERPROGRAMME

- WE-Heraeus-Seminare
- Binationale WE-Heraeus-Seminare
- WE-Heraeus-Physikschulen
- WE-Heraeus-Klausurtagungen
- WE-Heraeus Fast Track Workshops

- Einzelprojekte an Schulen und außerschulischen Lernorten
- Lehrerfortbildungen
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Dear Participants,

Welcome to the DPG-Frühjahrstagung (DPG Spring Meeting) of the Atomic, Molecular, Quantum Optics and Photonics Section (SAMOP) with the participating divisions and working groups involved on the campus of the Leibniz University of Hannover.

I am very pleased that with our DPG-Frühjahrstagungen (DPG Spring Meetings), even more so in presence, we can once again set a widely visible and public sign for the outstanding importance of basic research for scientific and societal progress. Basic research is indispensable for tackling the major societal challenges. Above all a sustainable energy supply with regard to climate change with its dramatic consequences for all life on our planet. On the other hand, the spring conferences are probably the most important instrument of the DPG to enable as many scientists as possible, especially young scientists, to participate in a cross-border, international and peaceful scientific exchange.

The last year has shown us with full force how important and by no means self-evident such a necessary and international exchange is, how vulnerable our world order is and how quickly a change can take place that even threatens the existence of countries. Therefore, it is the special responsibility of the DPG – guided by the values in our DPG Statutes, our compass – to stand up for freedom, tolerance, truthfulness and dignity in science and to act in awareness that we are particularly responsible for shaping the whole of human life: especially and particularly in troubled times!

The DPG conference in Hannover plays an outstanding role for peaceful international scientific exchange and discourse as well as for the perception and appreciation of the work of the DPG. I would therefore like to thank all those involved for their great commitment to the success of this conference. My special thanks go to the University of Hannover for its hospitality and support. I would like to sincerely thank the Wilhelm and Else Heraeus Foundation for once again gen-

erously supporting all DPG spring conferences. My great appreciation goes to the participating divisions and working groups for a great programme. I would especially like to thank the Local Organising Committee, Prof. Silke Ospelkaus, University of Hannover, and her entire team. For the support of all DPG-Frühjahrstagungen (DPG Spring Meetings), my special thanks go to the DPG Head Office.

Prof. Dr. Joachim Ullrich

President
Deutsche Physikalische Gesellschaft e. V.

Organisation

Organiser
Deutsche Physikalische Gesellschaft e. V.
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Homepage www.dpg-physik.de

Local Organiser
Prof. Dr. Silke Ospelkaus
Leibniz Universität Hannover
Institut für Quantenoptik
Welfengarten 1, 30167 Hannover
Phone +49 (0) 511-762 2589
Email kaisik@iqo.uni-hannover.de

Scientific Organisation

Chair of the AMOP Section (SAMOP)
Prof. Dr. Gereon Niedner-Schatteburg
FB Chemie - Physikalische Chemie
Technische Universität Kaiserslautern
Erwin-Schrödinger-Str., Geb. 52, R 535
67663 Kaiserslautern
Phone +49 (0) 0631 205-4697
Email gns@chemie.uni-kl.de

Chairs of the Participating Divisions

(A) Atomic Physics
Prof. Dr. Thomas Fennel
(thomas.fennel@uni-rostock.de)

(DD) Physics Education
Prof. Dr. Susanne Heinicke
(susanne.heinicke@uni-muenster.de)

(MO) Molecular Physics
Prof. Dr. Jochen Küpper
(jochen.kuepper@cfel.de)

(MS) Mass Spectrometry
Prof. Dr. Yuri A. Litvinov
(y.litvinov@gsi.de)

(QI) Quantum Information
Prof. Dr. Otfried Gühne
(otfried.guehne@uni-siegen.de)

(Q) Quantum Optics and Photonics
Prof. Dr. Christiane Koch
(christiane.koch@fu-berlin.de)

Chairs of the Participating Working Groups

(AKC) Equal Opportunities
OStR Agnes Sandner
(akc@dpg-physik.de)

(AKjDPG) Young DPG
Vivienne Leidel
(leidel@jdpg.de)

Symposia

SYAD – SAMOP Dissertation Prize 2023
SYAS – Awards Symposium
SYCC – From Molecular Spectroscopy to Collision Control at the Quantum Limit
SYHC – Precision Physics with Highly Charged Ions
SYHD – Molecules in Helium Droplets
SYML – Machine Learning in Atomic and Molecular Physics
SYPD – PhD Symposium – Many-body Physics in Ultracold Quantum Systems
SYQR – Quantum Optics and Quantum Information with Rigid Rotors

Organisation of the Exhibition of Scientific Instruments and Literature

DPG-Kongress-, Ausstellungs- und Verwaltungsgesellschaft mbH
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Fax +49 (0) 2224 9232-50
Email dpg@dpg-physik.de
Homepage www.dpg-gmbh.de

Programme

The scientific programme consists of **1.533** contributions:

10	Plenary talks
1	Evening talk
8	Prize talks
88	Invited talks
819	Talks
603	Posters
4	Tutorials

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Information for Participants

The conference will be held March 5 – 10, 2023.

Conference Information

Conference Venue
Leibniz Universität Hannover
Welfengarten 1
30167 Hannover

Most of the activities will take place in the main building of the university (Welfengarten 1). Sessions of the Division Physics Education (Didaktik der Physik) will take place in the Verfügungsgebäude (Schneiderberg 50) and the Kalihörsaal (Historic building Chemistry, Callinstraße 9). For a detailed map of the campus and the buildings please see "Maps" at the end of this document.

Conference Office / Information Desk
The conference office and the information desk are located in room C 109 on the right side of the „Lichthof" in the main building of the Leibniz Universität Hannover. The opening hours are the following:

	Registration	Information Desk
Sunday, March 5	15:00 – 19:30	16:00 – 22:00
Monday, March 6	08:00 – 17:00	08:00 – 19:00
Tuesday, March 7	08:00 – 17:00	08:30 – 19:00
Wednesday, March 8	08:00 – 17:00	08:30 – 21:00
Thursday, March 9	08:00 – 17:00	08:30 – 19:00
Friday, March 10	08:00 – 12:00	08:30 – 17:00

Beside this programme you have received your name tag, a receipt for your conference fee, a conference ticket for public transport (GVH, 2nd class, zone ABC, valid March 5 — 10, 2023), and the Login-Password for using WLAN (WiFi) at the registration. The name tag must be worn visibly during the entire conference.

The organisers, staff of the conference desk, and the student assistants will be identifiable by coloured name tags or Φ-T-shirts. Please contact them if you have any questions. Do not hesitate to inquire about all necessary information concerning the conference, orientation in Hannover, accommodation, restaurants, going out, and cultural events at the information desk.

With the DPG-App through the DPG Spring Meeting!
The updated DPG-App is ready-to-use and contains additional functions/features: In addition to the option of target groups, the electronical programme booklets for DPG Conferences (E-Verhandlungen) are accessible and it is possible to compile a „favorite list" regarding events one wants to attend. Just download the DPG-App for Android or iOS now and utilize the supplemental offerings. You will find more information under *https://www.dpg-physik.de/service/dpg-app.html*.

Presentation
Scientific presentations will be held either orally or by poster and will be given in English or German.

All lecture halls are equipped with projectors (16:9). Speakers are requested to connect their own laptops. The connection standard is HDMI – please bring your own adapters for your device. A limited number of laptops and HDMI adapters will be available for loan. If you would like to take advantage of this offer, please inform the information desk no later than the day before your presentation. In this case, please bring your presentation file on a USB stick to the presentation. An upload system is not provided.

Speakers are requested to be in the lecture hall at least 15 minutes prior to the start of the session, reporting to the chairperson of the session as well as the technical staff to ensure the laptops handshake with the projectors ("beamers") and to receive a brief introduction to the equipment in the lecture hall. If you need other presentation facilities please ask for availability at the information desk as soon as you arrive at the conference or better in advance via E-Mail *dpgtagung@iqo.uni-hannover.de*.

Usually, presentations will have the following durations. For exact information, please refer to your division.

- Contributed talks are 15 minutes including discussion and speaker change
  (12 min talk + 3 min discussion/speaker change)
- Invited talks are 30 minutes including discussion and speaker change
  (25 min talk + 5 min discussion/speaker change)
- Plenary presentations are 45 minutes

Poster Presentation (Monday — Thursday)
The poster sessions will take place in the Gallery of the Lichthof (main building) from Monday to Thursday 16:30 to

19:00. The poster boards will be marked with the number according to the scientific programme. Authors are asked to mount their poster before their session. Each poster should display the number according to the scientific programme. Each poster should not be larger than 85 cm x 120 cm (DIN A0).

For the mounting of the poster please use the provided mounting material at the poster frame or contact the student staff available at the poster area. The presenting authors should be at hand for discussion at their poster during at least half of the poster session and should note this time at the poster. The posters have to be removed after the session. Any posters remaining on poster boards will be removed early in the next morning and disposed without requesting your permission. The conference management accepts no liability for the posters.

Broadcast of Plenary Lectures
All plenary lectures will be presented in the Audimax (E415) and broadcasted live in the lecture hall E214 (next to the Audimax).

Wilhelm and Else Heraeus Communication Programme
Important notes for participants who apply for a grant of the Wilhelm and Else Heraeus Foundation:
At the beginning of the conference you will receive an identification form at the conference office. The participation in the conference must be certified by the conference desk. You have the possibility to leave this certificate with the staff members of the DPG (preferably at the conference office) or submit it to the DPG head office (DPG-Geschäftsstelle, Hauptstr. 5, 53604 Bad Honnef, Germany) by **April 14, 2023 at the latest.** For more detailed information refer to *http://samop23.dpg-tagungen.de*.
The Deutsche Physikalische Gesellschaft thanks the Wilhelm and Else Heraeus Foundation for the generous financial support of young academic talents. We hope that young physicists will continue to seize the offered opportunity for active scientific communication at scientific conferences. A total of about 37,800 young academics were supported by this programme so far.

Communication / Internet Access
To use the WLAN network on the campus of Leibniz Universität Hannover with your own notebooks, access data, login and password will be issued with the registration documents.
Leibniz Universität Hannover is a member of the Eduroam

Union. If your university is also part of the Eduroam Union, you can also use the Leibniz Universität Hannover WLAN in all buildings via your own Eduroam access.

Catering
Coffee and tea will be available all day in the Lichthof and in the East Entrance Foyer/Audimax. Additional coffee stands are located near the lecture halls for breaks between lectures.
Lunch will be available at the Mensa on the corner of Schneiderberg/Callinstraße (opening hours: 08:00 – 14:30 / meal times: 11:30 – 14:00) and at the "Contine" on the Conti-Campus, Königsworther Str. 1 (opening hours: 08:00 – 16:00 / meal times: 11:00 – 16:00). Snacks are also available in the Sprengelstube cafeteria in the basement of the main university building, Welfengarten 1 (08:00 – 16:00).
There are various offers for snacks as well as restaurants in the immediate vicinity of the university (a list is available at the information desk).

Cloakroom
Participants are asked to look carefully after their wardrobe, valuables, laptops, and other belongings. The organisers decline any liability. In room F335 of Leibniz Universität Hannover you will find a cloakroom managed by student assistants. The opening hours are as follows:

Sunday	March 5	16:45 – 22:15
Monday	March 6	08:45 – 19:15
Tuesday	March 7	08:45 – 19:15
Wednesday	March 8	08:45 – 21:30
Thursday	March 9	08:45 – 19:15
Friday	March 10	08:45 – 16:45

Notice Board
All changes to the conference programme (i.e. cancellation of presentations, change of rooms, etc.) are also transferred directly to the online version of the programme which will be updated continuously and is available in different formats (sorted by publication date, filterable by conference parts and as an rss-feed). Please use the form *https://samop23.dpg-tagungen.de/programm/notice-board-form* to notify changes or cancellations.

Room of Silence
The Room of Silence is located next to the Sprengelstube on the ground floor of the main building and has the room number F031. This room offers space to relax, pray and meditate. It is not dedicated to a specific religious tradition, all religious communities are welcome.

Lost Property
You can hand in lost property at the information desk. You can also collect your lost property there.

Liability Exclusion
Participants are asked to look carefully after their wardrobe, valuables, laptops and other belongings. There can be no liability assumed.

SAY CHEESE!
The DPG Spring Meetings are basically public to the press. Please note: On behalf of DPG, photos and videos will be recorded during the Spring Meetings. In the context of public relations, these recordings (as the case may be) will be published on our website, in social media or within prints of the DPG for example.

CO_2 compensation for the DPG conferences
By decision of the Executive Board, the DPG will compensate for fossil CO_2 emissions resulting from mobility for DPG conferences and committee meetings.

Acknowledgement
The Deutsche Physikalische Gesellschaft (DPG) and the local organisers want to thank the following institutions for supporting the conference:

- Wilhelm and Else Heraeus Foundation, Hanau
- Leibniz Universität Hannover
- all industrial sponsors (refer to page 14)
- and all staff, who make the success of the conference possible.

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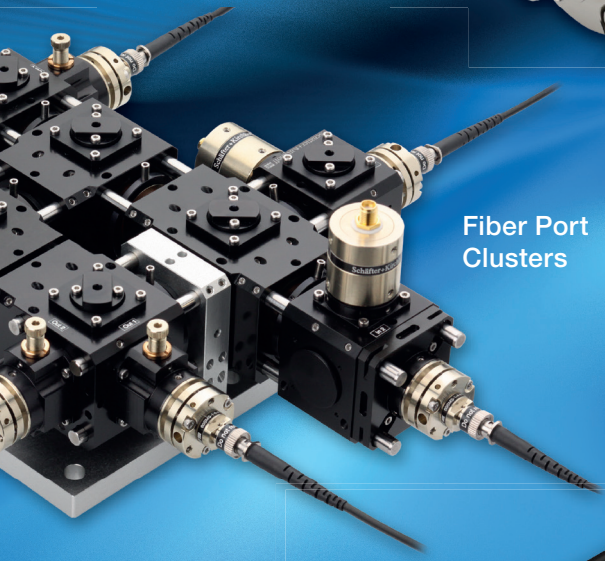

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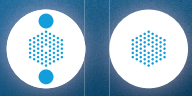

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Social Events

Tutorials
On Sunday, March 5, tutorials on current scientific topics will take place from 17:00 to 19:00 in B305 and B302. The tutorials are primarily aimed at students and young scientists. The tutorials are open to all conference participants.

Welcome Evening
Sunday, March 5, 19:30 – 22:00
On Sunday, the Welcome Evening will be held in the atrium (Lichthof) of the main building of Leibniz Universität Hannover, Welfengarten 1, 30167 Hannover to which all registered participants are kindly invited. Snacks and drinks will be served. Do not miss the opportunity to meet people in an informal atmosphere. Please wear your name tag which you received at the registration. Access to the welcome evening is only available to registered participants. Registration office will be open on Sunday from 15:00 to 19:30.

Opening of the Conference
A short opening address will be given by the chair of the AMOP Section (SAMOP) on Monday, March 6 from 08:55 until 09:00 in the Audimax (E415).

Awarding of the DPG-Teacher's Award („DPG-Lehrerpreis")
Dienstag, 7. März, 14:30 Uhr, DD HS 2.202 (in german language)
Der DPG-Lehrerpreis wird für herausragende Leistungen in der Gestaltung und Weiterentwicklung des Faches Physik an Schulen vergeben, beispielsweise für Leistungen, die in besonderem Maße geeignet sind, Schülerinnen und Schüler für das Fach Physik zu motivieren, die Bedeutung der Physik für das Leben und Zusammenleben der Menschen aufzuzeigen sowie Talente für die Physik zu erschließen. Weitere Informationen unter *https://www.dpg-physik.de/auszeichnungen/dpg-preise/dpg-lehrerpreis*.

Awarding of the SAMOP-Dissertationprize 2023
Tuesday, March 7, 14:30, Audimax (E415)
Talks by the four finalists will be given at the symposium (SYAD) on Monday. The award will be presented on Tuesday immediately before the Awards Symposium (SYAS) at 14:30 in the Audimax (E415).

Public Evening Talk
Wednesday, March 8, 20:00 – 21:00, Audimax (E415)
Prof. Dr. Reinhard Werner, Leibniz Universität Hannover will speak about:

„Das Ende der klassischen Welt – Der Physik-Nobelpreis 2022"

The Public Evening Talk is open for the interested public and all conference participants. It will be held in German. The entrance is free.

Members' Assemblies of the DPG-Divisions
During the DPG Spring Meeting, Members' Assemblies of the DPG-Divisions take place. Please refer to the scientific programme for the time and place of the meetings.

Job Market
During the conference various companies and organisations will present their working fields and career opportunities to all interested participants. The presentations will take place from Tuesday to Thursday, in F435 (4th floor). The presentations will last for about 30 minutes plus discussion.

Programme:

Tuesday, March 7

11:30 – 12:30	Eisenführ Speiser Patentanwälte Rechtsanwälte PartGmbB *„Physik trifft Recht – eine Karriere als Patentanwalt"*
13:30 – 14:30	ZEISS *„Working opportunities and career options at ZEISS"*

Wednesday, March 8

11:30 – 12:30	Trumpf Lasersystems for Semiconductor Manufacturing GmbH *„TRUMPF Lasersystems for EUV Lithography – Enabler für das digitale Zeitalter gesucht"*
13:30 – 14:30	Basycon Unternehmensberatung GmbH *„Aus der Wissenschaft in die Beratung"*

Thursday, March 9

11:30 – 12:30	BearingPoint GmbH *„Quantentechnologien und Beratung"*
13:30 – 14:30	d-fine GmbH *„Verwendung von Finanzderivaten in Industrieunternehmen"*

Exhibition of Scientific Instruments and Literature
From Tuesday, March 7, to Thursday, March 9, there will be an exhibition of scientific instruments and literature in the Lichthof. Several companies (see list of exhibitors at the end of this booklet) will present their products. Opening hours are from 10:30 to 19:00. All conference participants are welcome to attend the exhibition. The entrance is free.

DPG Tower building contest – Hoch hinaus!
The time has come to show how well the knowledge of mechanics still is and teams can work together. The jDPG challenges you to a tower building contest! Who builds the highest tower with given materials – wins. It's simple as that… or isn't it?

The "jDPG Tower building contest" will start on Tuesday, March 7, 10:30 – right after the plenary talks – and will take place in the Audimax (E415). All interested conference participants are welcome.

jDPG Pub Crawl
Tuesday, March 7, 20:00
Meeting Point: Main Entrance of the University
In case you need some time to take a rest in the middle of the conference and you are looking for conversations beyond physics, the local group of the Young DPG cordially invites you to a pub crawl through the nightlife in Hannover. With subsequent visit of the plenary talks on Wednesday ;-)

Labtours
There will be laboratory visits to local institutes, see the announcement on the board near the conference desk.

Laboratory tour at the PTB in Braunschweig
On Wednesday afternoon, March 8, there will be a trip to Braunschweig to visit laboratories at the Physikalisch-Technische Bundesanstalt (PTB). Participation is free of charge.

Schedule:

14:00	Departure by bus from the main entrance of the University.
15:00 – 18:00	Laboratory visit at the PTB
18:10	Departure for the return journey to Hannover,
19:10	Arrival at the university

Registration at the information desk is required for all laboratory tours.

Deutsche Physikalische Gesellschaft DPG

62. Wochenendseminar „Physiker:innen im Beruf“

Der Übergang von der Hochschule in die **berufliche Karriere** fällt vielen nicht leicht:
Die Möglichkeiten und Aufgabengebiete sind vielfältig – und wer kennt schon nach Studium oder Promotion die verschiedenen Anforderungen und Arbeitsabläufe?

Das Seminar bietet durch **Erfahrungsberichte** etablierter Physiker:innen sowie junger Berufsanfänger:innen Orientierung. Die 15 Vortragenden repräsentieren ganz verschiedene Arbeitsgebiete und zeigen damit das breite **Einsatzspektrum** von Physikerinnen und Physikern.

Neben den Vorträgen bietet der gemütliche Lichtenbergkeller des Physikzentrums Bad Honnef ein ideales Forum, mit den Vortragenden am Abend **in kleiner Runde offen** zu **diskutieren** und Erfahrungen zu sammeln.

Zielgruppe:
Physikstudierende ab Bachelor bis zur Promotion. Max. 80 Personen.

5. bis 7. Mai 2023

Physikzentrum Bad Honnef

Weitere Infos und Anmeldung: www.pib.dpg-physik.de

Synopsis of the Daily Programme

Sunday, March 5, 2023

Working Group „Young DPG“ (AKjDPG)

Tutorials

AKjDPG 1.1	17:00 — 17:45	B305
	A Tutorial on Quantum Simulation	
	•*Christian Groß*	
AKjDPG 1.2	17:45 — 18:30	B305
	Developing utility scale quantum computers with trapped ions	
	•*Winfried Hensinger*	
AKjDPG 2.1	17:00 — 17:45	B302
	New perspectives in the investigation of ultrafast molecular dynamics	
	•*Andrea Trabattoni*	
AKjDPG 2.2	17:45 — 18:30	B302
	Femtosecond spectroscopy in the condensed and gas phase	
	•*Lukas Bruder*	

Sessions

AKjDPG 1	17:00 — 18:30	B305
	Tutorial Quantum Simulation and Computing	
AKjDPG 2	17:00 — 18:30	B302
	Tutorial Molecular Spectroscopy	

Welcome Evening (for registered participants)

19:30 Lichthof

Monday, March 6, 2023

Opening

08:55 — 09:00 E415

Plenary Talks

PV I 09:00 — 09:45 E415

Probing the quantum nature of gravity in table-top experiments

•*Markus Aspelmeyer*

PV II 09:45 — 10:30 E415

Quantum Chemistry on Quantum Computers: Challenges and New Directions

•*Sabrina Maniscalco*

Symposium SAMOP Dissertation Prize 2023 (SYAD)

Invited Talks

SYAD 1.1 14:30 — 15:00 E415

Quantum gas magnifier for sub-lattice resolved imaging of 3D quantum systems

•*Luca Asteria*

SYAD 1.2 15:00 — 15:30 E415

From femtoseconds to femtometers – controlling quantum dynamics in molecules with ultrafast lasers

•*Patrick Rupprecht*

SYAD 1.3 15:30 — 16:00 E415

Particle Delocalization in Many-Body Localized Phases

•*Maximilian Kiefer-Emmanouilidis*

SYAD 1.4 16:00 — 16:30 E415

Feshbach resonances in a hybrid atom-ion system

•*Pascal Weckesser*

Session

SYAD 1 14:30 — 16:30 E415

SAMOP Dissertation Prize Symposium (SYAD)

Symposium Precision Physics with Highly Charged Ions (SYHC)

Invited Talks

SYHC 1.1 11:00 — 11:30 E415

First experiments at CRYRING@ESR

•*Esther Babette Menz*

SYHC 1.2 11:30 — 12:00 E415

Testing quantum electrodynamics in the simplest and heaviest multi-electronic atoms

•*Martino Trassinelli*

SYHC 1.3 12:00 — 12:30 E415

Indirect measurements of neutron-induced reaction cross-sections at heavy-ion storage rings

•*Beatriz Jurado*

SYHC 1.4 12:30 — 13:00 E415

Laboratory X-ray Astropohysics with Trapped Highly Charged Ions at Synchrotron Light Sources

•*Sonja Bernitt*

SYHC 2.1 17:00 — 17:30 E415

Observation of metastable electronic states in highly charged ions by Penning-trap mass spectrometry

•*Kathrin Kromer*

SYHC 2.2 17:30 — 18:00 E415

Towards extreme-ultraviolet optical clocks

•*José R. Crespo López-Urrutia*

SYHC 2.3 18:00 — 18:30 E415

Coupling atomic and nuclear degrees of freedom in highly charged ions

•*Adriana Pálffy*

SYHC 2.4 18:30 — 19:00 E415

Laser Spectroscopy at the Storage Rings of GSI/FAIR

•*Wilfried Nörtershäuser*

Sessions

SYHC 1	11:00 — 13:00	E415
	Highly Charged Ions for Atomic, Nuclear and Astrophysics	
SYHC 2	17:00 — 19:00	E415
	Intersection of the Electron-Shell and Nuclear Degrees of Freedom	

Atomic Physics Division (A)

Invited Talks

A 3.1	11:00 — 11:30	F303
	Time-resolved Kapitza-Dirac effect	
	•*Kang Lin*	
A 6.1	17:00 — 17:30	F107
	Nonperturbative dynamics in heavy-ion-atom collisions	
	•*Pierre-Michel Hillenbrand*	
A 7.1	17:00 — 17:30	F303
	Multi-frequency optical lattice for dynamic lattice-geometry control	
	•*Luca Asteria*	

Sessions

A 1	11:00 — 13:00	A320
	Quantum Technologies	
A 2	11:00 — 13:00	F107
	Collisions, Scattering and Correlation Phenomena	
A 3	11:00 — 13:00	F303
	Interaction with Strong or Short Laser Pulses I	
A 4	11:00 — 13:00	F442
	Quantum Effects (QED)	
A 5	13:15 — 14:00	F303
	Members' Assembly	
A 6	17:00 — 18:45	F107
	Precision Spectroscopy of Atoms and Ions I	

A 7	17:00 — 19:00	F303
	Ultra-cold Atoms, Ions and BEC I	
A 8	17:00 — 19:00	F342
	Quantum Technologies: Color Centers	

Molecular Physics Division (MO)

Sessions

MO 1	11:00 — 13:00	F102
	Cold Molecules	
MO 2	11:00 — 13:00	F142
	Photochemistry	
MO 3	11:00 — 13:00	F303
	Interaction with Strong or Short Laser Pulses I	

Quantum Optics and Photonics Division (Q)

Invited Talks

Q 2.1	11:00 — 11:30	E001
	Interferometry with Bose-Einstein Condensates for inertial sensing	
	•*Sven Abend*	
Q 9.1	17:00 — 17:30	A320
	Compressibility and the equation of state of an optical quantum gas in a box	
	•*Julian Schmitt*	
Q 10.1	17:00 — 17:30	E001
	Maiman's ruby laser reborn as diode pumped cw laser	
	•*Walter Luhs*	

Sessions

Q 1	11:00 — 13:00	A320
	Quantum Technologies	
Q 2	11:00 — 13:00	E001
	Matter Wave Optics	
Q 3	11:00 — 13:00	E214
	Quantum Computing and Simulation	

Q 4	11:00 — 13:00	F102
	Cold Molecules	
Q 5	11:00 — 13:00	F342
	Quantum Optics: Open Quantum Systems	
Q 6	11:00 — 13:00	F442
	Quantum Effects (QED)	
Q 7	16:30 — 19:00	Empore Lichthof
	Poster I	
Q 8	16:30 — 19:00	Empore Lichthof
	QI Poster I	
Q 9	17:00 — 19:00	A320
	Quantum Gases: Bosons I	
Q 10	17:00 — 19:00	E001
	Photonics I	
Q 11	17:00 — 19:00	E214
	Precision Measurements: Gravity I	
Q 12	17:00 — 18:45	F107
	Precision Spectroscopy of Atoms and Ions I	
Q 13	17:00 — 19:00	F303
	Ultra-cold Atoms, Ions and BEC I	
Q 14	17:00 — 19:00	F342
	Quantum Technologies: Color Centers I	
Q 15	17:00 — 19:00	F442
	Quantum Communication	

Quantum Information Division (QI)

Invited Talks

QI 3.1	11:00 — 11:30	B305
	Characterising quantum device variability with machine learning	
	•*Natalia Ares*	
QI 5.1	11:00 — 11:30	F428
	Building Superconducting Quantum Hardware towards Error-Corrected Quantum Computing	
	•*Christopher Eichler*	

Sessions

QI 1	11:00 — 13:00	A320
	Quantum Technologies I	
QI 2	11:00 — 13:00	B302
	Quantum Foundations	
QI 3	11:00 — 13:00	B305
	Quantum Machine Learning	
QI 4	11:00 — 13:00	E214
	Quantum Computing and Simulation	
QI 5	11:00 — 12:30	F428
	Superconducting Qubits and Hybrid Systems	
QI 6	16:30 — 19:00	Empore Lichthof
	Poster I	
QI 7	17:00 — 19:00	F342
	Quantum Technologies: Color Centers I	
QI 8	17:00 — 19:00	F442
	Quantum Communication I	

Physics Education Division (DD)

Invited Talk

DD 1.1	11:00 — 12:00	DD HS 2.202
	Welchen Beitrag kann die Hochschul-Fachdidaktik zur Lehre der Physik als Haupt- und Nebenfach leisten?	
	•*Christian Kautz*	

Sessions

DD 1	11:00 — 12:00	DD HS 2.202
	Eröffnung und Hauptvortrag 1: Kautz	
DD 2	12:00 — 13:00	DD 108
	Inklusion	
DD 3	12:00 — 13:00	DD 110
	Digitale Medien I	
DD 4	12:00 — 13:00	DD 111
	Quantenphysik I	

DD 5	12:00 — 13:00	DD 405
	Hochschuldidaktik I	
DD 6	12:00 — 12:40	DD 407
	Interesse und Persönlichkeit I	
DD 7	14:30 — 15:30	DD 108
	Lehr-Lernforschung I	
DD 8	14:30 — 15:30	DD 110
	Digitale Medien II	
DD 9	14:30 — 15:30	DD 111
	Quantenphysik II	
DD 10	14:30 — 15:30	DD 405
	Workshop Lehramtsstudie KFP/DPG	
DD 11	14:30 — 15:30	DD 407
	Nature of Science, Geschichte	
DD 12	16:00 — 17:00	DD 108
	Lehr-Lernforschung II	
DD 13	16:00 — 17:00	DD 110
	Digitale Medien III	
DD 14	16:00 — 17:00	DD 111
	Quantenphysik III	
DD 15	16:00 — 17:00	DD 405
	Hochschuldidaktik II	
DD 16	16:00 — 17:00	DD 407
	Lehreraus- und -fortbildung I	
DD 17	17:00 — 19:00	Empore Lichthof
	Poster – Außerschulisches Lernen	
DD 18	17:00 — 19:00	Empore Lichthof
	Poster – Bildung für nachhaltige Entwicklung	
DD 19	17:00 — 19:00	Empore Lichthof
	Poster – Physikunterricht: Inklusion, Sprache, Anregungen	
DD 20	17:00 — 19:00	Empore Lichthof
	Poster – Quantenphysik	

DD 21	17:00 — 19:00	Empore Lichthof
	Poster – Lehr-Lernforschung	
DD 22	17:00 — 19:00	Empore Lichthof
	Poster – Neue / digitale Medien	
DD 23	17:00 — 19:00	Empore Lichthof
	Poster – Lehreraus- und -fortbildung	
DD 24	17:00 — 19:00	Empore Lichthof
	Poster – Neue Konzepte	
DD 25	17:00 — 19:00	Empore Lichthof
	Poster – Praktika und Experimente	
DD 26	17:00 — 19:00	Empore Lichthof
	Poster – Astronomie	
DD 27	17:00 — 19:00	Empore Lichthof
	Poster – Hochschuldidaktik	
DD 28	17:00 — 19:00	Empore Lichthof
	Poster – Weitere fachdidaktische Forschung	
DD 29	17:00 — 19:00	Empore Lichthof
	Poster – Arbeitsgruppen Physikdidaktik Quo vadis	

Working Group on Equal Opportunities (AKC)

Invited Talks

AKC 1.1	14:30 — 15:15	F128
	Vordenkerinnen in Physik und Philosophie	
	•*Betti Hartmann,* •*Carla Schriever*	
AKC 1.2	15:15 — 16:00	F128
	Physik-Projekt-Tage – Ein Workshop für Schülerinnen der Oberstufe	
	•*Anna Benecke*	

Sessions

AKC 1	14:30 — 16:00	F128
	AKC 1	
AKC 2	17:00 — 18:30	Empore Lichthof
	AKC 2	

Tuesday, March 7, 2023

Plenary Talks

PV III 09:00 — 09:45 E415

Educational Transformation at a Critical Time: The essential roles and promise of physicists

•*Noah Finkelstein*

PV IV 09:45 — 10:30 E415

New Lightwave Science with Photonic Crystal Fibres

•*Philip Russell*

Awards Symposium (SYAS)

14:30 – 14:35 E415

Awarding of the SAMOP-Dissertationprize 2023

Prize Talks

SYAS 1.1 14:35 — 15:05 E415

The Reaction Microscope: A Bubble Chamber for AMOP

•*Joachim Ullrich (Laureate of the Stern-Gerlach-Medal 2021)*

SYAS 1.2 15:05 — 15:35 E415

Quantum Computation and Quantum Simulation with Strings of Trapped Ca+ Ions

•*Rainer Blatt (Laureate of the Herbert-Walther-Prize 2023)*

SYAS 1.3 15:35 — 16:05 E415

Amplitude, Phase and Entanglement in Strong Field Ionization

•*Sebastian Eckart (Laureate of the Gustav-Hertz-Prize 2023)*

SYAS 1.4 16:05 — 16:35 E415

All-optical Nonlinear Noise Suppression in Mode-locked Lasers and Ultrafast Fiber Amplifiers

•*Marvin Edelmann (Laureate of the Georg-Simon-Ohm-Prize 2023)*

Session

SYAS 1 14:30 — 16:35 E415

Award Symposium

Symposium Machine Learning in Atomic and Molecular Physics (SYML)

Invited Talks

SYML 1.1 11:00 — 11:30 E415

Imaging a complex molecular structure with laser-induced electron diffraction and machine learning

•*Katharina Chirvi*

SYML 1.2 11:30 — 12:00 E415

Physics-inspired learning algorithms for optimal shaping of atoms with light

•*Maximilian Prüfer*

SYML 1.3 12:00 — 12:30 E415

Machine-Learning assisted quantum computing and interferometry

•*Ludwig Mathey*

SYML 1.4 12:30 — 13:00 E415

Efficient quantum state tomography with convolutional neural networks

•*Moritz Reh*

Session

SYML 1 11:00 — 13:00 E415

Machine Learning in Atomic and Molecular Physics

Atomic Physics Division (A)

Invited Talk

A 10.1 11:00 — 11:30 F107

Interaction of twisted light with a trapped atom: Interplay of electronic and motional degrees of freedom

•*Anton Peshkov*

	Sessions	
A 9	11:00 — 13:00	F102
	Ultrafast Dynamics I	
A 10	11:00 — 13:00	F107
	Atomic Systems in External Fields	
A 11	11:00 — 12:45	F303
	Precision Spectroscopy of Atoms and Ions II	
A 12	16:30 — 19:00	Empore Lichthof
	Poster I	

Molecular Physics Division (MO)

	Invited Talk	
MO 4.1	11:00 — 11:30	F102
	Revealing chiral charge migration in UV-excited molecules	
	•*Vincent Wanie*	
	Sessions	
MO 4	11:00 — 13:00	F102
	Ultrafast Dynamics I	
MO 5	11:00 — 13:00	F142
	Electronic Spectroscopy	
MO 6	16:30 — 19:00	Empore Lichthof
	Poster I	

Mass Spectrometry Division (MS)

	Invited Talk	
MS 1.1	11:00 — 11:30	F128
	Lasers against barium – Detection of ^{135}Cs in the environment by AMS	
	•*Alexander Wieser*	
	Session	
MS 1	11:00 — 13:00	F128
	Accelerator Mass Spectrometry I	

Quantum Optics and Photonics Division (Q)

Invited Talks

Q 17.1 11:00 — 11:30 E001

Thin-film lithium niobate waveguides for integrated quantum photonic technologies

•*Francesco Lenzini*

Q 18.1 11:00 — 11:30 E214

Atoms coupled to nanofibers: from topological phases to correlated photon emission

•*Beatriz Olmos*

Sessions

Q 16 11:00 — 13:00 A320

Photonic Quantum Technologies

Q 17 11:00 — 13:00 E001

Integrated Photonics I

Q 18 11:00 — 13:00 E214

Quantum Optics: Cavity and Waveguide QED I

Q 19 11:00 — 12:45 F303

Precision Spectroscopy of Atoms and Ions II

Q 20 11:00 — 13:00 F342

Quantum Gases: Bosons II

Q 21 11:00 — 13:00 F442

Quantum Technologies: Color Centers II

Q 22 16:30 — 19:00 Empore Lichthof

Poster II

Quantum Information Division (QI)

Invited Talks

QI 10.1 11:00 — 11:30 B302

Quantum information in minimal quantum thermal machines

•*Géraldine Haack*

QI 11.1 11:00 — 11:30 B305

Characterisation of multipartite entanglement beyond the single-copy paradigm

•*Nicolai Friis*

Sessions

QI 9	11:00 — 13:00	A320
	Photonic Quantum Technologies	
QI 10	11:00 — 13:00	B302
	Quantum Thermodynamics and Open Quantum Systems I	
QI 11	11:00 — 13:00	B305
	Quantum Entanglement I	
QI 12	11:00 — 13:00	E001
	Integrated Photonics I	
QI 13	11:00 — 13:00	F428
	Quantum Simulation	
QI 14	11:00 — 13:00	F442
	Quantum Technologies: Color Centers II	
QI 15	13:15 — 14:00	B305
	Members' Assembly	

Physics Education Division (DD)

Prize Talks, Invited Talk

DD 35.1	12:15 — 12:35	DD 108
	Durchführung eines MINT-Berufsinformationstags für die Mittelstufe in Form eines Digitalkongresses	
	•Sebastian Bauer (Träger des DPG-Lehrerpreises 2021)	
DD 35.2	12:35 — 12:55	DD 108
	... mehr als nur Physik in the lænd	
	•Pirmin Gohn, •Hermann Klein (Träger des DPG-Lehrerpreises 2022)	
	14:30 — 14:40	DD HS 2.202
	Verleihung des DPG-Lehrerpreises 2022	

DD 39.1	14:40 — 15:20	DD HS 2.202
	Die Welt der Smartphone-Experimente mit phyphox	
	•Sebastian Staacks, •Christoph Stampfer (Träger des Georg-Kerschensteiner-Preises 2023)	
DD 39.2	15:20 — 16:00	DD HS 2.202
	Entwicklung und Beforschung von Unterrichtskonzeptionen	
	•Thomas Wilhelm (Träger des Robert-Wichard-Pohl-Preises 2023)	
DD 40.1	16:30 — 17:30	DD HS 2.202
	Zwischen Corona und KI: Wo steht die Hochschullehre und wie geht sie weiter?	
	•Peter Salden	

Sessions

DD 30	11:00 — 12:00	DD 108
	Lehr-Lernforschung III	
DD 31	11:00 — 12:00	DD 110
	Praktika und neue Praktikumsversuche	
DD 32	11:00 — 12:00	DD 111
	Quantenphysik IV	
DD 33	11:00 — 12:00	DD 405
	Interesse und Persönlichkeit II	
DD 34	11:00 — 12:00	DD 407
	Lehreraus- und -fortbildung II	
DD 35	12:15 — 12:55	DD 108
	Impulse aus der Unterrichtspraxis – Vorträge Lehrerpreis	
DD 36	12:15 — 12:55	DD 110
	Digitale Medien IV	
DD 37	12:15 — 12:55	DD 405
	Hochschuldidaktik III	
DD 38	12:15 — 12:55	DD 407
	Bildung für nachhaltige Entwicklung I	

DD 39	14:30 — 16:00	DD HS 2.202
	Preisträgersymposium Didaktik	
DD 40	16:30 — 17:30	DD HS 2.202
	Hauptvortrag 2: Salden	
DD 41	18:00 — 19:30	DD HS 2.202
	Mitgliederversammlung FV DD	

Exhibition of Scientific Instruments and Literature

10:30 — 19:00 Lichthof

jDPG Tower Building Contest

10:30 — 11:00 E415

Job Market: Eisenführ Speiser Patentanwälte Rechtsanwälte PartGmbB

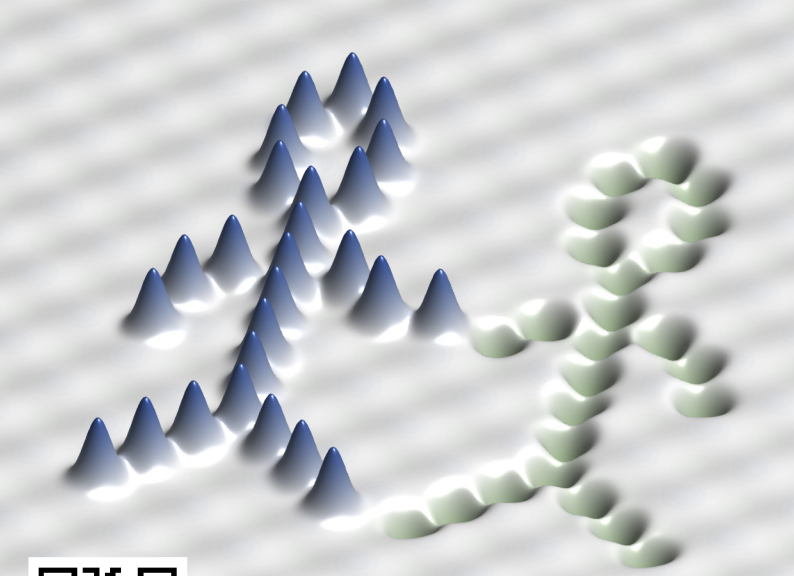
11:30 — 12:30 F435

Job Market: ZEISS

13:30 — 14:30 F435

jDPG Pub Crawl

20:00 Main Entrance University



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DPG mentoring

Wednesday, March 8, 2023

Plenary Talks

PV V 09:00 — 09:45 E415

The device-independent scenario: quantum information information processing based on Bell Theorem

•*Antonio Acin*

PV VI 09:45 — 10:30 E415

Cavity-enhanced light-induced processes in aerosol droplets

•*Ruth Signorell*

Symposium Molecules in Helium Droplets (SYHD)

Invited Talks

SYHD 1.1 11:00 — 11:30 E415

Structure and field-induced dynamics of small helium clusters

•*Maksim Kunitski*

SYHD 1.2 11:30 — 12:00 E415

Coherent Diffraction Imaging of isolated helium nanodroplets and their ultrafast dynamics

•*Daniela Rupp*

SYHD 1.3 12:00 — 12:30 E415

Clustering dynamics in superfluid helium nanodroplets: A theoretical study

•*Nadine Halberstadt*

SYHD 1.4 12:30 — 13:00 E415

Messenger spectroscopy of molecular ions – Development of a new experimental setup

•*Elisabeth Gruber*

Session

SYHD 1 11:00 — 13:00 E415

Molecules in Helium Droplets

Atomic Physics Division (A)

Invited Talks

A 13.1 11:00 — 11:30 F107

Stability and Melting Dynamics of Mixed Species Coulomb Crystals with Highly Charged Ions

•*Luca Rüffert*

A 14.1 11:00 — 11:30 F303

Realization of the Periodic Quantum Rabi Model in the Deep Strong Coupling Regime with Ultracold Rubidium Atoms

•*Stefanie Moll*

A 17.1 14:30 — 15:00 F107

Adiabatic properties of the bicircular attoclock

•*Paul Winter*

Sessions

A 13 11:00 — 13:00 F107

Highly Charged Ions and their Applications I

A 14 11:00 — 13:00 F303

Ultra-cold Atoms, Ions and BEC II

A 15 11:00 — 13:00 F102

Precision Measurements: Atom Interferometry I

A 16 14:30 — 16:30 F102

Molecules in Intense Fields and Quantum Control

A 17 14:30 — 16:15 F107

Interaction with Strong or Short Laser Pulses II

A 18 14:30 — 16:30 F303

Ultra-cold Plasmas and Rydberg Systems I

A 19 14:30 — 16:00 F428

Ultra-cold Atoms, Ions and BEC III

A 20 16:30 — 19:00 Empore Lichthof

Poster II

Molecular Physics Division (MO)

Invited Talks

MO 7.1 11:00 — 11:30 F142

Augmenting basis with normalizing flows for solving Schrödinger equations: theoretical analysis

•*Yahya Saleh*

MO 9.1 14:30 — 15:00 F102

Full Angle-Resolved Mapping of Electron Rescattering Probabilities in the Molecular Frame

•*Jochen Mikosch*

Sessions

MO 7 11:00 — 13:00 F142

Machine Learning and Computational and Theoretical Molecular Physics

MO 8 13:15 — 14:00 F142

Members' Assembly

MO 9 14:30 — 16:30 F102

Molecules in Intense Fields and Quantum Control

MO 10 14:30 — 16:15 F142

Collisions

MO 11 14:30 — 16:30 E214

Quantum Technologies

MO 12 14:30 — 16:15 F107

Interaction with Strong or Short Laser Pulses II

MO 13 16:30 — 19:00 Empore Lichthof

Poster II

Mass Spectrometry Division (MS)

Invited Talk

MS 3.1 14:30 — 15:00 F128

Durable, low-temperature and highly-selective catalysis in NO reduction and CO oxidation driven by uni-sized Pt clusters supported on Si and SiC substrates

•*Hisato Yasumatsu*

Sessions

MS 2	11:00 — 12:15	F128
	Multi-Reflection Time-of-Flight Spectrometers	
MS 3	14:30 — 16:00	F128
	Mass Spectrometry Applications	

Quantum Optics and Photonics Division (Q)

Invited Talk

Q 36.1	14:30 — 15:00	E214
	BMBF-Förderprogramm: Wissenschaftliche Vorprojekte	
	•*Bernhard Ihrig*	

Sessions

Q 23	11:00 — 12:45	A320
	Optomechanics I & Optovibronics	
Q 24	11:00 — 12:45	B305
	Quantum Networks I	
Q 25	11:00 — 13:00	E001
	Solid State Quantum Optics	
Q 26	11:00 — 13:00	E214
	Quantum Gases: Bosons III	
Q 27	11:00 — 13:00	F303
	Ultra-cold Atoms, Ions and BEC II	
Q 28	11:00 — 13:00	F342
	Quantum Technologies: Trapped Ions	
Q 29	11:00 — 13:00	F428
	Implementations: Ions and Atoms	
Q 30	11:00 — 13:00	F442
	Nano-optics	
Q 31	11:00 — 13:00	F102
	Precision Measurements: Atom Interferometry I	
Q 32	13:00 — 14:00	F342
	Members‘ Assembly	

Q 33	14:30 — 16:30	A320
	Quantum Gases: Bosons IV	
Q 34	14:30 — 16:30	B305
	Quantum Communication	
Q 35	14:30 — 16:30	E001
	Quantum Optics: Cavity and Waveguide QED II	
Q 36	14:30 — 16:30	E214
	Quantum Technologies	
Q 37	14:30 — 16:15	F142
	Collisions (with Q)	
Q 38	14:30 — 16:30	F303
	Ultra-cold Plasmas and Rydberg Systems I	
Q 39	14:30 — 16:30	F342
	Quantum Optics & Nano-Optics	
Q 40	14:30 — 16:30	F442
	Photonics II	
Q 41	14:30 — 16:00	F428
	Ultra-cold Atoms, Ions and BEC III	
Q 42	16:30 — 19:00	Empore Lichthof
	Poster III	
Q 43	16:30 — 19:00	Empore Lichthof
	QI Poster II	
Q 44	17:00 — 19:00	A320
	Integrated Photonics II	

Quantum Information Division (QI)

Invited Talks

QI 17.1	11:00 — 11:30	B305
	Self-testing with dishonest parties and entanglement certification in quantum networks	
	•*Gláucia Murta*	

QI 19.1 11:00 — 11:30 F428

Experimental quantum error correction with trapped ions

•*Philipp Schindler*

QI 21.1 14:30 — 15:00 B305

Qube and Qube-II – Towards Quantum Key Distribution with Small Satellites

•*Lukas Knips*

Sessions

QI 16 11:00 — 13:00 B302

Concepts and Methods I

QI 17 11:00 — 12:45 B305

Quantum Networks I

QI 18 11:00 — 13:00 F342

Quantum Technologies: Trapped Ions

QI 19 11:00 — 13:00 F428

Implementations: Ions and Atoms

QI 20 14:30 — 16:30 B302

Concepts and Methods II

QI 21 14:30 — 16:30 B305

Quantum Communication II

QI 22 14:30 — 16:30 E214

Quantum Technologies II

QI 23 16:30 — 19:00 Empore Lichthof

Poster II

QI 24 17:00 — 19:00 A320

Integrated Photonics II

Physics Education Division (DD)

Invited Talk

DD 47.1 12:10 — 13:10 DD HS 2.202

Reflexivität zu Sprache und Physiklernen durch Fallverstehen? Eine kasuistische Begleitveranstaltung zu Schulpraktika im Lehramtsstudium

•*Thorid Rabe*

Sessions

DD 42	11:00 — 12:00	DD 108
	Lehr-Lernforschung IV	
DD 43	11:00 — 12:00	DD 110
	Experimente I	
DD 44	11:00 — 12:00	DD 111
	Quantenphysik V	
DD 45	11:00 — 12:00	DD 405
	Hochschuldidaktik IV	
DD 46	11:00 — 12:00	DD 407
	Bildung für nachhaltige Entwicklung II	
DD 47	12:10 — 13:10	DD HS 2.202
	Hauptvortrag 3: Rabe & Helzel	
DD 48	14:30 — 15:30	DD 108
	Lehr-Lernforschung V	
DD 49	14:30 — 15:30	DD 110
	Experimente II	
DD 50	14:30 — 15:30	DD 111
	Quantenphysik VI	
DD 51	14:30 — 15:30	DD 405
	Hochschuldidaktik V	
DD 52	14:30 — 15:30	DD 407
	außerschulisch/Hochschule	
DD 53	16:00 — 17:30	DD 108
	Workshop Studienreformforum	

Exhibition of Scientific Instruments and Literature

10:30 — 19:00 Lichthof

Job Market: Trumpf Lasersystems for Semiconductor Manufacturing GmbH

11:30 — 12:30 F435

Job Market: Basycon Unternehmensberatung GmbH

13:30 — 14:30 F435

Evening Talk

PV VII 20:00 — 21:00 E415

Das Ende der klassischen Welt – Der Physik-Nobelpreis 2022

•*Reinhard Werner*

Thursday, March 9, 2023

Plenary Talks

PV VIII 09:00 — 09:45 E415

Highly charged helium droplets

•*Paul Scheier*

PV IX 09:45 — 10:30 E415

Exploring fundamental interactions and constants with trapped ions

•*Sven Sturm*

Symposium From Molecular Spectroscopy to Collision Control at the Quantum Limit (SYCC)

Invited Talks

SYCC 1.1 11:00 — 11:30 E415

The unity of physics: the beauty and power of spectroscopy

•*Paul Julienne*

SYCC 1.2 11:30 — 12:00 E415

Using high-resolution molecular spectroscopy to explore how chemical reactions work

•*Johannes Hecker Denschlag*

SYCC 1.3 12:00 — 12:30 E415

Monitoring ultracold collisions with laser light

•*Olivier Dulieu*

SYCC 1.4 12:30 — 13:00 E415

The birth of a degenerate Fermi gas of molecules

•*Jun Ye*

Session

SYCC 1 11:00 — 13:00 E415

From Molecular Spectroscopy to Collision Control at the Quantum Limit

PhD Symposium – Many-body Physics in Ultracold Quantum Systems (SYPD)

Invited Talks

SYPD 1.1 14:30 — 15:00 E415

Entanglement and quantum metrology with microcavities

•*Jakob Reichel*

SYPD 1.2 15:00 — 15:30 E415

Many-body physics in dipolar quantum gases

•*Francesca Ferlaino*

SYPD 1.3 15:30 — 16:00 E415

Quantum Simulation: from Dipolar Quantum Gases to Frustrated Quantum Magnets

•*Markus Greiner*

SYPD 1.4 16:00 — 16:30 E415

Quantum gas in a box

•*Zoran Hadzibabic*

Session

SYPD 1 14:30 — 16:30 E415

Many-body Physics in Ultracold Quantum Systems

Atomic Physics Division (A)

Invited Talks

A 22.1 11:00 — 11:30 F107

Efficient and accurate simulation of wide-angle single-shot scattering

•*Paul Tuemmler*

A 23.1 11:00 — 11:30 F303

Trapping Ions and Ion Coulomb Crystals in a 1D Optical Lattice

•*Daniel Hoenig*

A 24.1 14:30 — 15:00 F107

Intra-cavity photoelectron tomography with an intra-cavity velocity-map imaging spectrometer at 100 MHz repetition rate

•*Jan-Hendrik Oelmann*

A 26.1 14:30 — 15:00 F303

Laser spectroscopy of the heaviest elements with the RADRIS technique

•*Tom Kieck*

Sessions

A 21 11:00 — 13:00 F102

Ultrafast Dynamics II

A 22 11:00 — 13:00 F107

Atomic Clusters

A 23 11:00 — 13:00 F303

Ultra-cold Atoms, Ions and BEC IV

A 24 14:30 — 16:00 F107

Interaction with Strong or Short Laser Pulses III

A 25 14:30 — 16:30 F142

Cluster and Experimental Techniques

A 26 14:30 — 16:30 F303

Precision Spectroscopy of Atoms and Ions III

A 27 16:30 — 19:00 Empore Lichthof

Poster III

Molecular Physics Division (MO)

Invited Talk

MO 15.1 11:00 — 11:30 F142

Excited state dipole moments from rotationally resolved Stark spectroscopy

•*Michael Schmitt*

Sessions

MO 14	11:00 — 13:00	F102
	Ultrafast Dynamics II	
MO 15	11:00 — 13:00	F142
	Rotational- and Vibrational-resolution Spectroscopy	
MO 16	11:00 — 13:00	F107
	Atomic Clusters	
MO 17	14:30 — 16:30	F102
	Quantum Optics and Quantum Information with Rigid Rotors	
MO 18	14:30 — 16:30	F142
	Cluster and Experimental Techniques	
MO 19	14:30 — 16:00	F107
	Interaction with Strong or Short Laser Pulses III	
MO 20	16:30 — 19:00	Empore Lichthof
	Poster III	

Mass Spectrometry Division (MS)

Invited Talks

MS 4.1	11:00 — 11:30	F128
	Observation of the radiative decay of the thorium-229 nuclear clock isomer	
	•*Sandro Kraemer*	
MS 4.2	11:30 — 12:00	F128
	Mass measurements of heavy and superheavy nuclides and isomers with SHIPTRAP	
	•*Manuel J. Gutiérrez*	

Sessions

MS 4	11:00 — 13:00	F128
	Heavy and Superheavy Elements	
MS 5	13:00 — 13:30	F128
	Members‘ Assembly	

MS 6	14:30 — 16:30	F128
	Accelerator Mass Spectrometry II	
MS 7	16:30 — 19:00	Empore Lichthof
	Poster	

Quantum Optics and Photonics Division (Q)

Invited Talks

Q 47.1	11:00 — 11:30	E001
	Quantum metrology with non-classical states of light	
	•*Michèle Heurs*	
Q 48.1	11:00 — 11:30	E214
	Using optomechanical systems to test gravitational theory – possibilities and limitations	
	•*Dennis Rätzel*	
Q 52.1	14:30 — 15:00	E001
	Nonperturbative Floquet engineering and Floquet-dissipative state preparation	
	•*Francesco Petiziol*	
Q 53.1	14:30 — 15:00	E214
	Quantum information with atomic quantum metasurfaces and integrated nanophotonics	
	•*Rivka Bekenstein*	

Sessions

Q 45	11:00 — 13:00	A320
	Photonics III	
Q 46	11:00 — 13:00	B305
	Quantum Control	
Q 47	11:00 — 13:00	E001
	Precision Measurements with Optical Clocks	
Q 48	11:00 — 13:00	E214
	Optomechanics II	

Q 49	11:00 — 13:00	F303
	Ultra-cold Atoms, Ions and BEC IV	
Q 50	11:00 — 13:00	F342
	Quantum Gases: Fermions I	
Q 51	14:30 — 16:30	A320
	Precision Measurements	
Q 52	14:30 — 16:30	E001
	Floquet Engineering and Topology	
Q 53	14:30 — 16:30	E214
	Single Quantum Emitters	
Q 54	14:30 — 16:30	F102
	Quantum Optics and Quantum Information with Rigid Rotors	
Q 55	14:30 — 16:30	F303
	Precision Spectroscopy of Atoms and Ions III	
Q 56	14:30 — 16:30	F342
	Quantum Gases: Fermions II	
Q 57	14:30 — 16:30	F428
	Quantum Networks II	
Q 58	14:30 — 16:30	F442
	Quantum Optics with Photons I	
Q 59	16:30 — 19:00	Empore Lichthof
	Poster IV	

Quantum Information Division (QI)

Invited Talks

QI 26.1	11:00 — 11:30	B305
	Quantum firmware: optimal control for quantum simulators	
	•*Tommaso Calarco*	
QI 28.1	11:00 — 11:30	F428
	Conveyor-mode single-electron shuttling in Si/SiGe for a scalable quantum computing architecture	
	•*Inga Seidler*	

QI 30.1 14:30 — 15:00 B305

Adaptive constant-depth circuits for manipulating non-abelian anyons

•*Robert König*

Sessions

QI 25 11:00 — 13:00 B302

Quantum Entanglement II

QI 26 11:00 — 13:00 B305

Quantum Control

QI 27 11:00 — 13:00 E001

Precision Measurements with Optical Clocks

QI 28 11:00 — 13:00 F428

Spin Qubits

QI 29 14:30 — 16:30 B302

Quantum Thermodynamics and Open Quantum Systems II

QI 30 14:30 — 16:30 B305

Quantum Algorithms

QI 31 14:30 — 16:30 E214

Single Quantum Emitters

QI 32 14:30 — 16:30 F102

Quantum Optics and Quantum Information with Rigid Rotors

QI 33 14:30 — 16:30 F428

Quantum Networks II

Exhibition of Scientific Instruments and Literature

10:30 — 19:00 Lichthof

Job Market: BearingPoint GmbH

11:30 — 12:30 F435

Job Market: d-fine GmbH

13:30 — 14:30 F435

Friday, March 10, 2023

Plenary Talks

PV X 09:00 — 09:45 E415

Lightwave electronics in trivial, topological, and strongly correlated solids

•*Misha Ivanov*

PV XI 09:45 — 10:30 E415

Quantum Simulation using Ultracold Atoms and Molecules

•*Immanuel Bloch*

Symposium Quantum Optics and Quantum Information with Rigid Rotors (SYQR)

Invited Talks

SYQR 1.1 11:00 — 11:30 E415

Femtosecond timed imaging of rotation and vibration of alkali dimers on the surface of helium nanodroplets

•*Henrik Stapelfeldt*

SYQR 1.2 11:30 — 12:00 E415

Quantum toolbox for molecular state spaces

•*Victor V. Albert*

SYQR 1.3 12:00 — 12:30 E415

Coherent rotational state control of chiral molecules

•*Sandra Eibenberger-Arias*

SYQR 1.4 12:30 — 13:00 E415

Optically levitated rotors: potential control and optimal measurement

•*Martin Frimmer*

SYQR 2.1 14:30 — 15:00 E415

Rotational optomechanics with levitated nanodumbbells

•*Tongcang Li*

SYQR 2.2 15:00 — 15:30 E415

Quantum rotations of nanoparticles

•*Benjamin A. Stickler*

SYQR 2.3 15:30 — 16:00 E415

Quantum control of trapped molecular ions

•*Stefan Willitsch*

SYQR 2.4 16:00 — 16:30 E415

Full control over randomly oriented quantum rotors: controllability analysis and application to chiral observables

•*Monika Leibscher*

Sessions

SYQR 1 11:00 — 13:00 E415

Quantum Optics and Quantum Information with Rigid Rotors 1

SYQR 2 14:30 — 16:30 E415

Quantum Optics and Quantum Information with Rigid Rotors 2

Atomic Physics Division (A)

Invited Talks

A 28.1 11:00 — 11:30 F107

Coherent multidimensional spectroscopy of an ultracold gas

•*Friedemann Landmesser*

A 29.1 11:00 — 11:30 F303

An elementary network of entangled optical atomic clocks

•*Raghavendra Srinivas*

A 30.1 14:30 — 15:00 F107

Investigation of Molecular Ions as Sensitive Probes for Fundamental Physics

•*Carsten Zuelch*

A 31.1	14:30 — 15:00	F303
	Observation of vibrational dynamics in an ion-Rydberg molecule by a high-resolution ion microscope	
	•*Moritz Berngruber*	
	Sessions	
A 28	11:00 — 12:45	F107
	Ultra-cold Plasmas and Rydberg Systems II	
A 29	11:00 — 12:45	F303
	Precision Spectroscopy of Atoms and Ions IV	
A 30	14:30 — 16:30	F107
	Highly Charged Ions and their Applications II	
A 31	14:30 — 16:30	F303
	Ultra-cold Atoms, Ions and BEC V	
A 32	14:30 — 16:30	F342
	Precision Measurements: Atom Interferometry II	
A 33	14:30 — 16:00	B302
	Precision Spectroscopy of Atoms and Ions V	
A 34	14:30 — 16:30	F102
	Ultrafast Dynamics III	

Molecular Physics Division (MO)

	Invited Talk	
MO 22.1	11:00 — 11:30	F142
	A QED Theory of Mediated RET Between a Pair of Chiral Molecules	
	•*Akbar Salam*	
	Sessions	
MO 21	11:00 — 13:00	F102
	Molecular Physics with X-rays	
MO 22	11:00 — 13:15	F142
	Theoretical and Computational Molecular Physics	

MO 23	14:30 — 16:30	F102
	Ultrafast Dynamics III	

Mass Spectrometry Division (MS)

Invited Talks

MS 8.1	11:00 — 11:30	F128
	Two color resonant laser SNMS for isotope micro imaging of nuclear fuel debris	
	•*Tetsuo Sakamoto*	
MS 9.1	14:30 — 15:00	F128
	Developments to improve antiproton and other mass measurements	
	•*Christian Smorra on behalf of the BASE collaboration*	

Sessions

MS 8	11:00 — 12:45	F128
	Accelerator Mass Spectrometry III	
MS 9	14:30 — 16:30	F128
	Penning traps, highest precision, neutrino physics, storage rings, new facilities and approaches	

Quantum Optics and Photonics Division (Q)

Invited Talk

Q 61.1	11:00 — 11:30	E001
	Quantum Imaging With Nonlinear Interferometers	
	•*Markus Gräfe*	

Sessions

Q 60	11:00 — 12:45	A320
	Photonics IV	
Q 61	11:00 — 13:00	E001
	Quantum Optics with Photons II	
Q 62	11:00 — 13:00	E214
	Precision Measurements: Gravity II	

Q 63	11:00 — 12:45	F107
	Ultra-cold Plasmas and Rydberg Systems II	
Q 64	11:00 — 12:45	F303
	Precision Spectroscopy of Atoms and Ions IV	
Q 65	11:00 — 13:00	F342
	Many-body Physics	
Q 66	11:00 — 13:00	F428
	Quantum Metrology	
Q 67	11:00 — 13:00	F442
	Optomechanics III	
Q 68	14:30 — 16:15	B305
	Quantum Gases: Bosons V	
Q 69	14:30 — 16:30	F303
	Ultra-cold Atoms, Ions and BEC V	
Q 70	14:30 — 16:30	F342
	Precision Measurements: Atom Interferometry II	
Q 71	14:30 — 15:30	F442
	Quantum Optics: Cavity and Waveguide QED III	
Q 72	14:30 — 16:00	B302
	Precision Spectroscopy of Atoms and Ions V	

Quantum Information Division (QI)

	Sessions	
QI 34	11:00 — 13:00	B302
	Concepts and Methods III	
QI 35	11:00 — 13:00	B305
	Quantum Computers: Algorithms and Benchmarking	
QI 36	11:00 — 13:00	F428
	Quantum Metrology	
QI 37	14:30 — 16:15	F428
	Quantum Many Body Systems	

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Index of Exhibitors

Exhibition venue
Leibniz Universität Hannover, Lichthof (Main Building),
Welfengarten 1, 30167 Hannover

Exhibition opening hours

Tuesday, March 7	10:30 – 19:00
Wednesday, March 8	10:30 – 19:00
Thursday, March 9	10:30 – 19:00

The entrance is free!

Company **Booth No.**

AHF analysentechnik AG **2**
Kohlplattenweg 18, 72074 Tübingen
AHF provides optical filters, LED/laser light sources, image splitters and quality monitoring tools for professional and challenging (fluorescence) microscopy. Customers benefit from long-term and interdisciplinary expertise.

Ametek, TMC GmbH **13**
Rudolf-Diesel-Straße 16, 40670 Meerbusch
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Bernhard Halle Nachfl. GmbH Optische Werkstätten **6**
Hubertusstraße 10, 12163 Berlin
Polarisationsoptik, Linsensysteme, Optische Komponenten

CAEN ELS S.R.L. **16**
AREA Science Park - SS14 km 163,5, 34149 Basovizza, Trieste, Italy
High Performance Power Supplies, ZERO FLUCS Precision Current Measurement, Beamline Electronic Instrumentation, MicroTCA and FMC

Cryoandmore Budzylek GbR **40**
Hermann-Cossmann-Straße 19, 41472 Neuss
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CryoVac GmbH & Co. KG **17**
Langbaurghstraße 13, 53842 Troisdorf
Helium-Bad und Verdampferkryostate, Temperaturmess- und Regelgeräte

Deutsche Forschungsgemeinschaft (DFG) **41**
53170 Bonn
Information und Beratung zu den Förderprogrammen der DFG

Exail SAS **37**
3, rue Sophie Germain, 25000 Besançon, France
Photonic components and systems for Quantum Technologies

GWU-Lasertechnik Vertriebsgesellschaft mbH **14**
Bonner Ring 9, 50374 Erftstadt
Abstimmbare Lasersysteme & OPOs; Kristalle (Laser, nichtlineare); Echelle-Spektrografen; Fiberlaser

Hamamatsu Photonics Deutschland GmbH **18**
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Hiden Analytical Europe GmbH **34**
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Jäger Computergesteuerte Messtechnik GmbH – ADwin-Echtzeitsysteme für schnelle, freiprogrammierbare Steuer- und Regelaufgaben

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Vakuumtechnik

Kashiyama Europe GmbH **25**
Leopoldstraße 244, 80807 München
Vacuum Solutions

LIOP-TEC GmbH **44**
Industriestraße 4, 42477 Radevormwald
Gepulste ns Dye-laser Systeme, Optomechanik

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Munich Quantum Valley **8**
Leopoldstraße 244, 80807 München
Munich Quantum Valley promotes quantum science and quantum technologies in Bavaria and offers various research positions, especially in connection to quantum computing.

PlanQC GmbH **15**
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Planqc quantum computing atom by atom

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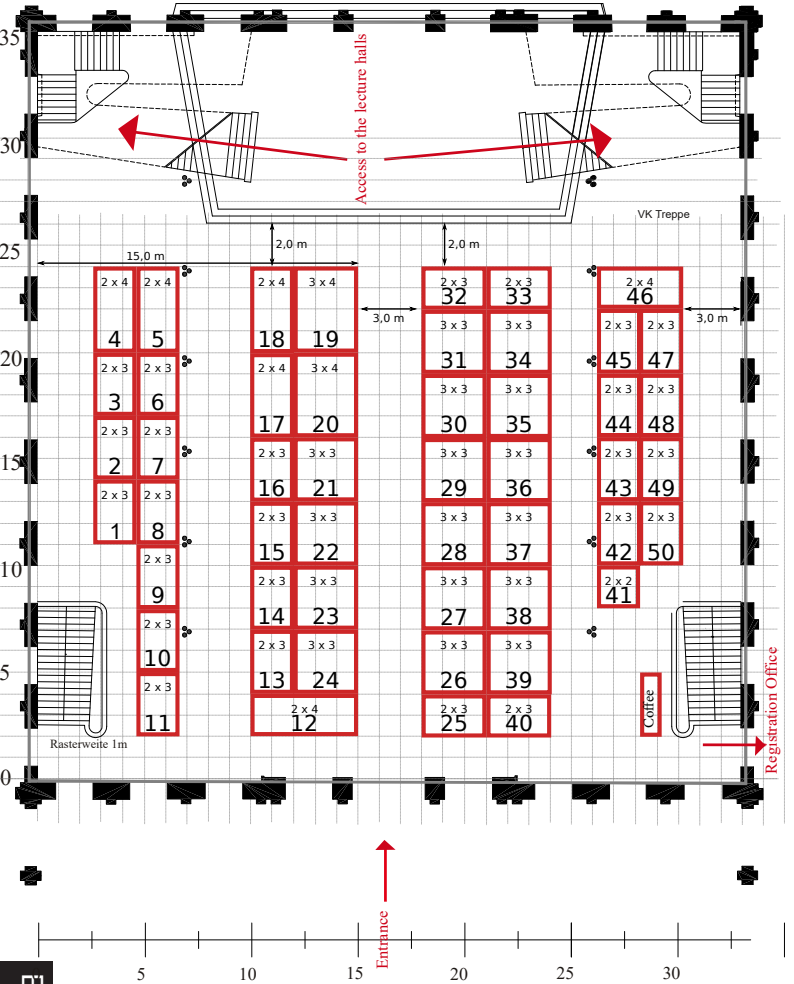
Stand Map Exhibition Hannover 2023

Leibniz Universität Hannover, Welfengarten 1, 30169 Hannover



Overview Lecture Rooms / Campus

Hörsaalliste / Lecture Rooms

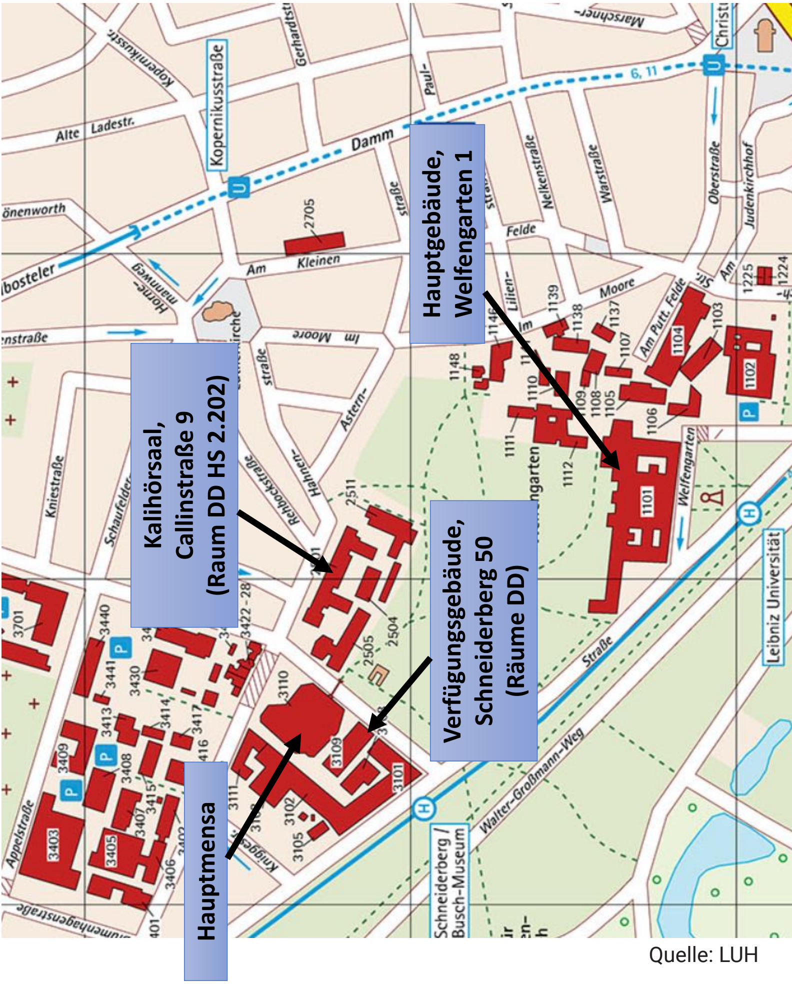
SAMOP

Hauptgebäude Welfengarten 1
Lichthof
Empore Lichthof
A320
B302
B305
F102
F107
F128
F142
F303
F335 (Senatssitzungssaal)
F342 (kleiner Physikhörsaal)
F428
F442
E001
E214 (großer Physikhörsaal)
E415 (Audimax)

Fachverband Didaktik / Physics Education Division

Verfügungsgebäude Schneiderberg 50
DD 108
DD 110
DD 111
DD 203
DD 205
DD 309 (Kaffee)
DD 405
DD 407

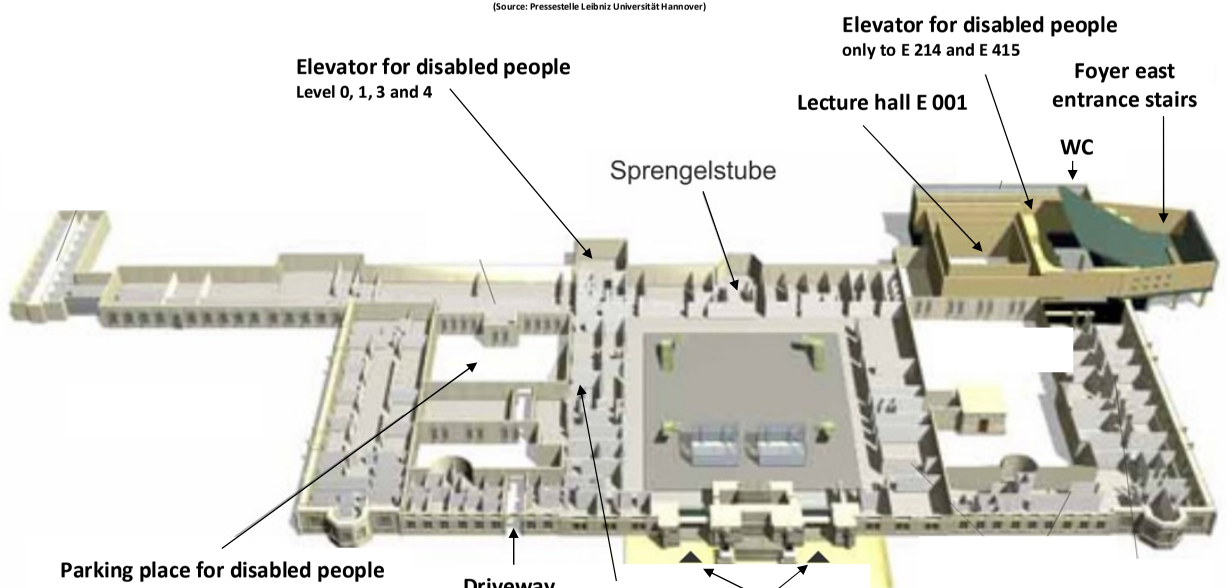
Altbau Chemie, Callinstraße 9
DD HS 2.202 (Kalihörsaal)


Hauptgebäude, Welfengarten 1
Kalihörsaal, Callinstraße 9 (Raum DD HS 2.202)
Verfügungsgebäude, Schneiderberg 50 (Räume DD)
Hauptmensa

Quelle: LUH

Map Level 0 and Guide for disabled persons

(Source: Pressestelle Leibniz Universität Hannover)



Map Level 1

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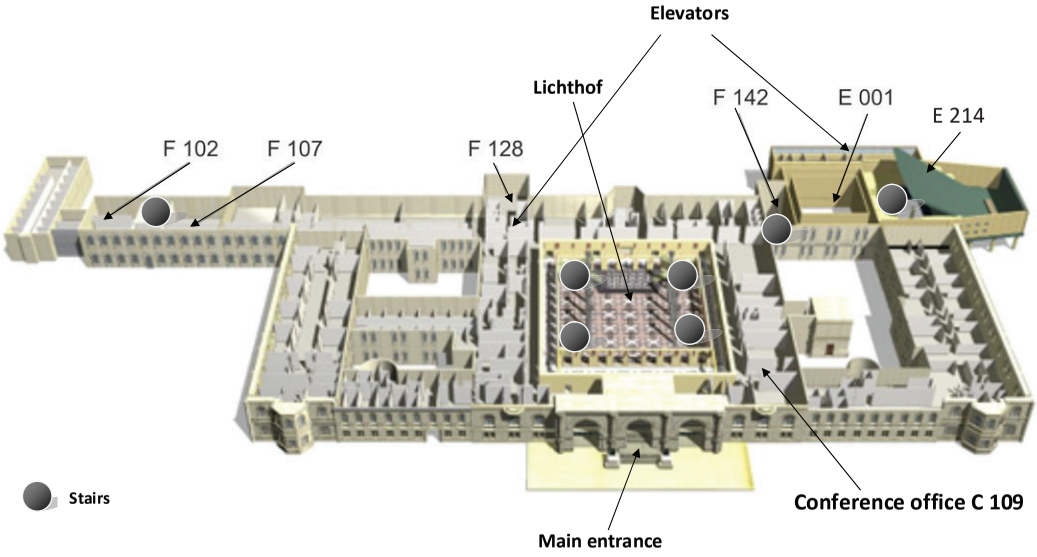

Map Level 3

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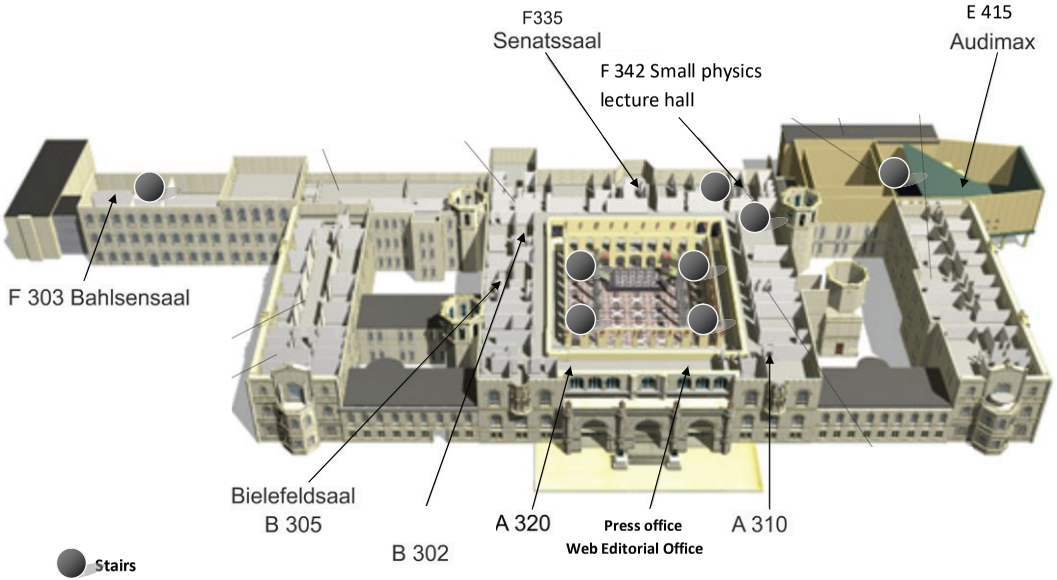

Map Level 4

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