



Call for nominations or self-applications: Hamburg Prize for Theoretical Physics 2017

The Hamburg Centre for Ultrafast Imaging (CUI) and the Joachim Herz Stiftung will jointly award the Hamburg Prize for Theoretical Physics 2017 in the research areas of atoms, molecules, and quantum optics as well as condensed matter.

The award honors outstanding contributions of a highly accomplished international researcher with personal prize money of EUR 40,000.

Previous awardees are

- Prof. Maciej Lewenstein, ICFO Barcelona (2010)
- Prof. Peter Zoller, Universität Innsbruck (2011)
- Prof. Shaul Mukamel, University of California (2012)
- Prof. Chris H. Greene, Purdue University (2013)
- Prof. Antoine Georges, Collège de France, École Polytechnique, Universität Genf (2014)
- Prof. Ignacio Cirac, Max Planck Institute of Quantum Optics in Garching (2015)
- Prof. Mikhail Katsnelson, Radboud University of Nijmegen (2016)

The awardee is expected to interact with CUI's research groups and especially with young researchers (e.g. via lectures and seminars) during one or more visits to Hamburg. Additional funds will be available for these visits. CUI is a cluster of excellence at Universität Hamburg.

Please send conclusive nominations or self-applications until March 31, 2017, to:

Preiskomitee des Hamburger Preises
für Theoretische Physik
z. Hd. Dr. Hans Behringer
(hans.behringer@cui.uni-hamburg.de)
The Hamburg Centre for Ultrafast Imaging
Luruper Chaussee 149 – D-22761 Hamburg
www.cui.uni-hamburg.de
www.joachim-herz-stiftung.de

Deutsche Physikalische Gesellschaft 

DPG-Frühjahrstagung 2017
(Spring Meeting)

**of the Atomic, Molecular, Plasma Physics
and Quantum Optics Section (SAMOP)**

together with
Working Group young DPG (jDPG)

Short Programme

**Johannes Gutenberg
University Mainz**

March 6 – 10, 2017



Impressum:

Deutsche Physikalische Gesellschaft e. V.
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53604 Bad Honnef
Tel.: 02224 / 9232-0
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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)
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Deutsche Physikalische Gesellschaft  DPG

Profitiere als
Mentee von
erfahrenen
Physiker/innen
im Berufsleben.

Begleiten Sie als
Mentor/in junge
Physiker/innen
beim
Berufseinstieg.

DPG Mentoring- Programm 2017

Jetzt anmelden unter:
mentoring.dpg-physik.de
Anmeldeschluss: 30. April 2017





DPG *Schüler Tagung*

Physikzentrum Bad Honnef
8. - 10. September

Physik im Kopf?



Mitdiskutieren!

Anmeldung: 17. April bis 4. Juni

Table of Content

Greeting	4
Organisation	6
Organiser	6
Local Organiser	6
Scientific Organisation	6
Chairs of the Participating Divisions and Working Group	6
Symposia	7
Organisation of the Exhibition of Scientific Instruments and Literature	7
Information for Participants	7
Conference Information	7
Conference Venue	7
Conference Office / Information Desk	8
Message Board	8
With the DPG-App through the Spring Meetings!	8
Presentation	8
Poster Presentation	9
Wilhelm and Else Heraeus Communication Programme	10
Communication / Internet Access	10
Catering	10
Annual General Meetings of the DPG Divisions	11
Cloakroom	11
Social Events	11
Opening Ceremony	11
Welcome Evening	11
Public Evening Talk	12
Physics Teachers' Day	12
Physik-LehrerInnen-Tag	12
jDPG Tower Building Contest	12
SAMOP Dissertation Prize 2017	12
jDPG Pub Crawl	12
Exhibition of Scientific Instruments and Literature	13
Lab Tours	13
Guided tour through the Mainz Microtron MAMI	13
Visits of local QUANTUM labs	13
Liability Exclusion	13
Acknowledgement	13
Synopsis of the Daily Programme	18
Index of Exhibitors	42
Campus and Exhibitor maps	48



Deutsche Physikalische Gesellschaft Φ DPG

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Greeting

Dear Participants,

I cordially welcome you to the Johannes Gutenberg University Mainz for the DPG-Frühjahrstagung (Spring Meeting) of the Atomic, Molecular, Plasma Physics and Quantum Optics Section (SAMOP) with the divisions Atomic Physics, Mass Spectrometry, Molecular Physics, Quantum Optics and Photonics. This Spring Meeting offers a rich scientific programme and a special programme for teachers, the "Physics Teachers' Day". Through this Meeting and the other internationally attended DPG Spring Meetings the DPG encourages the exchange of knowledge from home and abroad: more than 10,000 scientists are expected to attend our Spring Meetings this year.

Scientific exchange is of central importance to society today: science is a great asset and an important cultural achievement. Science consists of research and teaching, with a broad range of research ranging from the search for fundamental knowledge to the implementation of innovative ideas into practical applications. These dimensions of science are inseparable. Scientific, by which I mean critical and creative thinking also requires a nurturing social environment. The free exchange of opinions, a culture of listening, of discourse conducted with rational arguments without ideological blinkers, is the prerequisite for real science. Science can flourish only in a society where these prerequisites are given. In return, science can help to promote a culture of tolerance and cooperation. In most scientific working groups, it will be a matter of course that people of different nationalities, cultures and religions co-operate and enrich each other.

An outstanding example of this is the SESAME (Synchrotron Light for Experimental Science and Applications in the Middle East) project, which will start operating this year in Jordan. Founded under the auspices of UNESCO, SESAME is an independent intergovernmental organisation whose members, Bahrain, Cyprus, Egypt, Iran, Israel, Jordan, Pakistan, Palestine and Turkey are pursuing the aim of developing this unique source of synchrotron radiation as a bridge for understanding between neighbours, as CERN did after World War II, overcoming political, cultural and religious differences.

We at the DPG are committed to this spirit and to these values. Unfortunately it is of urgent necessity to point this out in view of the increasingly intolerant tendencies in Germany that are blatantly paraded at times, the rejection of

democratic principles, and the rise of populism in Europe and around the world. It is up to us physicists, and associations like the DPG, to assume our responsibility for bolstering an open and democratic society. This is not just a moral obligation, it is also laid down in our constitution: "The DPG commits itself and its members to champion freedom, tolerance, truthfulness and dignity in science, and to be aware that those operating in science are responsible to a very great extent for shaping the entirety of human life." This principle applies especially to our Spring Meetings with international guests. We therefore call upon politicians to do everything in their power to stem the recent worrying developments and work towards an inclusive and open society. Physics, like any science, knows no political, cultural or religious borders.

Such a conference as this Spring Meeting is only possible thanks to the great effort of everyone involved. I would like to thank the Johannes Gutenberg University Mainz for its hospitality and assistance. I would also like to thank the Wilhelm and Else Heraeus Foundation for its generous support for every DPG Spring Meeting. I wish to express my gratitude to the SAMOP and the divisions involved for a great programme. My special thanks go to the Local Organising Committee, Professor Ferdinand Schmidt-Kaler of the Institute of Physics, and his team. I thank the DPG office staff for assisting and overseeing every DPG Spring Meeting.

A handwritten signature in black ink, appearing to read 'R. Heuer', written in a cursive style.

Prof. Dr. Rolf-Dieter Heuer
President of the
Deutsche Physikalische Gesellschaft

Organisation

Organiser

Deutsche Physikalische Gesellschaft e. V.

Hauptstraße 5, 53604 Bad Honnef

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Local Organiser

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Institut für Physik

Staudingerweg 7, 55128 Mainz

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Scientific Organisation

Chair of the Section AMOP (SAMOP)

Prof. Dr. Andreas Buchleitner

Quantum Optics and Statistics

Institute of Physics, University of Freiburg

Hermann-Herder-Str. 3, 79104 Freiburg

Phone +49 (0) 761 203 5830

Fax +49 (0) 761 203 5967

Email a.buchleitner@physik.uni-freiburg.de

Chairs of the Participating Divisions and Working Group

(A) Atomic Physics

– Prof. Dr. Marc Vrakking (vrakking@mbi-berlin.de)

(MO) Molecular Physics

– Prof. Dr. Stefan Lochbrunner (stefan.lochbrunner@uni-rostock.de)

(MS) Mass Spectrometry

– Prof. Dr. Robin Golser (robin.golser@univie.ac.at)

(Q) Quantum Optics and Photonics

– Prof. Dr. Dagmar Bruß (dagmar.bruss@uni-dues-seldorf.de)

(jDPG) young DPG

– Matthias Dahlmanns (dahlmanns@jdpg.de)

Symposia

- SYAD – SAMOP Dissertation Prize
- SYAM – Atomic Anti-Matter Physics
- SYAP – Atomic & Plasma Physics at FAIR
- SYDD – Driven-Dissipative Quantum Systems
(PhD-Symposium)
- SYLG – Quantum Simulators of Lattice Gauge Theories

Organisation of the Exhibition of Scientific Instruments and Literature

DPG-Kongreß-, Ausstellungs- und
Verwaltungsgesellschaft mbH
Hauptstraße 5, 53604 Bad Honnef
Phone +49 (0) 2224 9232-0
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Email dpg@dpg-physik.de
Homepage www.dpg-gmbh.de

Programme

The scientific programme consists of 1186 contributions:

10	Plenary Talks
1	Evening Talk
54	Invited Talks
16	Group Reports
640	Talks
463	Posters
2	Discussions

Information for Participants

The conference will be held March 6 – 10, 2017.

Conference Information

Conference Venue

Johannes Gutenberg-Universität Mainz
Haus Recht und Wirtschaft I
Jakob-Welder-Weg 9
55128 Mainz

Most of the activities will take place in the “Haus Recht und Wirtschaft I” (ReWi), Jakob-Welder-Weg 9, and the “Philosophicum”, Jakob-Welder-Weg 18. For a detailed map of the campus and the buildings please see the end of this booklet.

Conference Office / Information Desk

The conference office and the information desk are located in room RW4, ground floor of the building "Haus Recht und Wirtschaft I". The opening hours are the following:

Monday	March 6	08:00 – 19:00
Tuesday	March 7	08:00 – 16:00
Wednesday	March 8	08:00 – 16:00
Thursday	March 9	08:00 – 16:00
Friday	March 10	08:00 – 12:00

At the conference office you will receive a receipt for your conference fee, a ticket for public transportation (valid from March 5 to 10), the login-password for using WiFi, the printed programs, and your name tag. 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 and 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 Mainz, accommodation, restaurants, going out, and cultural events at the information desk. During the conference you can contact the information desk by telephone +49 (0) 6131 39-20222.

Message Board

All changes of the scientific programme and other important information for participants will be announced on a message board near the conference office / information desk and via the homepage <http://mainz17.dpg-tagungen.de>. Please check regularly!

With the DPG-App through the Spring Meetings!

The updated DPG-App is ready-to-use and contains additional functions/features: In addition to the option of target groups, the Programme Booklets for DPG Conferences (VERHANDLUNGEN) are accessible and it is possible to compile a „favourite list“ regarding events one wants to attend. Just download the DPG-App for Android or iOS now and utilise 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 plenary talks will be given in English.

All lecture halls and seminar rooms are equipped with electronic presentation technique (beamers, aspect ratio 4:3) as well as laptops. You can connect your own laptop (please check connection before the start of your session) or you might bring your presentation (pdf or PowerPoint "2010") on an USB memory stick and transfer it to the computer in the lecture hall before the start of the session. In all lecture halls there will be service staff to help you with your presentation.

All lecture theatres will be opened, at the latest, 30 minutes prior to the lecture. 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

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 without discussion

Poster Presentation

The poster sessions (Tuesday-Thursday) will take place in the 1st and 2nd floor of the Philosophicum, Jakob-Welder-Weg 18, from 17:00 to 19:00.

The poster boards will be marked with the number according to the scientific program. Authors are asked to mount their poster before their session. Each poster should display the number according to the scientific program. Each poster should be no larger than 85 cm in width and 120 cm in height (DIN A0 portrait). For the mounting of the poster please use the provided mounting material (residue-free) 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 poster session. Any posters remaining on poster boards will be removed and disposed without notice. The conference management accepts no liability for the posters.

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 (recommended!) in the conference office or submit it to the DPG Head Office (DPG-Geschäftsstelle, Hauptstr. 5, 53604 Bad Honnef, Germany) by **April 14, 2017 at the latest**. For more detailed information refer to <http://mainz17.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 30,000 young academics were supported by this program, so far.

Communication / Internet Access

The University Mainz is connected to the eduroam network. WiFi access will be provided at the campus of the University Mainz. You will get login and password with your registration documents. Additionally, PCs will be available for email and internet applications near the conference office, please ask at the information desk for locations.

Catering

In the foyer of the "Haus Recht und Wirtschaft I", in the "Philosophicum" and the "Naturwissenschaftliche Institutsgebäude" coffee and tea are provided all-day free of charge for participants.

Lunch will be offered at counter 4 of the "Zentralmensa", Staudingerweg 15, between 13:00 and 14:30. Please use this counter since cash payment is possible only there. Enrolled students will receive lunch for student conditions. Please wear your name tag visibly during lunch, to be recognised as conference participant. Additionally to the „Zentralmensa“ further localities may be found on the campus.

Annual General Meetings of the DPG Divisions

Division	Date	Time and Allocation
Atomic Physics (A)	Friday, March 10	13:15, N 1
Molecular Physics (MO)	Tuesday, March 7	13:15, N 6
Mass Spectrometry (MS)	Thursday, March 9	14:00, RW 2
Quantum Optics and Photonics (Q)	Tuesday, March 7	13:15, P 2

Cloakroom

Participants are asked to look carefully after their wardrobe, valuables, laptops, and other belongings for which the organisers are not liable. You will find a cloakroom in the basement of the building "Haus Recht und Wirtschaft I" of the University Mainz.

The opening hours are the following:

Monday	March 6	08:00 – 19:30
Tuesday	March 7	08:00 – 22:00
Wednesday	March 8	08:00 – 19:30
Thursday	March 9	08:00 – 19:30
Friday	March 10	08:00 – 17:30

Social Events

Opening Ceremony (in German language)

Monday, March 6, 11:30 – 12:30, RW 1

With the opening ceremony the conference will be open officially. All participants are kindly invited.

Welcome Evening

Monday, March 6, 19:30 – 22:00

On Monday evening, a Welcome Evening will be held in the Zentralmensa, Staudingerweg 15 to which all registered participants are kindly invited. Snacks and drinks will be served. Peter Klohmann <http://www.peterklohmann.com> will entertain you with music. Do not miss this opportunity to meet people in an informal atmosphere. Please note that the cloakroom in the basement of the building "Haus Recht und Wirtschaft I" closes on Monday at 19:30.

Public Evening Talk

Tuesday, March 7, 19:30 – 21:00, RW 1

Prof. Dr. Jörg Wrachtrup, Universität Stuttgart, will speak about

„Quanten statt Karat: Edle Steine für die Forschung“

The Public Evening Talk is open for the interested public and all conference participants. The entrance is free.

Physics Teachers' Day

Physik-LehrerInnen-Tag mit Vorträgen und Podiumsdiskussion

(The programme of the Physics Teachers' Day is available in German only)

Tuesday, March 7, 9:00 – 21:00, lecture halls RW 1 and HS 19 (signposted)

The entrance is free.

jDPG Tower Building Contest

Tuesday, March 7, 10:30, Foyer of the ReWi building

The time has come to show how well theories perform in practice and teams can work together. The regional group Mainz of the jDPG challenges you to a tower building contest! Who builds the highest tower with given materials – wins. It's simple as that... or is it?

All interested persons are welcome.

SAMOP Dissertation Prize 2017

Wednesday, March 8, 11:00 – 13:00, RW 1

Talks by the four finalists will be given at this symposium. Right after the symposium, the awardee will be selected by the prize committee.

jDPG Pub Crawl

Thursday, March 9, 19:30, Carnival Fountain, Schillerplatz, (Tram line 53, stop Schillerplatz)

Everyone, who wants to leave the Campus behind on the last evening and discover Mainz, is welcomed to join the jDPG on a pub crawl and end the conference with a good night out.

For questions send us an email to mainz@jdpdg.de.

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 buildings ReWi as well as in the "Philosophicum". Several companies (see list of exhibitors at the end of this booklet) will present their products. Opening hours are from 09:00 to 17:00. All conference participants are welcome to attend the exhibition. The entrance is free.

Lab Tours

Guided tour through the Mainz Microtron MAMI

On Monday, March 6 a guided tour through the Mainz Microtron MAMI at the Institute for Nuclear Physics will be offered. The Mainz Microtron MAMI is a particle accelerator for electron beams used for hadron physics experiments. Information on the accelerator is available at <http://www.kph.uni-mainz.de/eng/108.php>. The tour begins at 14:00 and will last approximately two hours. Due to a restricted number of participants, a binding registration is necessary. **Meeting point:** Foyer of the Institute of Nuclear Physics, Johann-Joachim-Becher-Weg 45, 55128 Mainz.

Visits of local QUANTUM labs

On Tuesday, March 7 lab tours of different local research groups of the QUANTUM working group http://www.quantum.physik.uni-mainz.de/index_ENG.php will be offered. The visits begin at 14:00 and will last approximately two hours. In total four laboratories will be visited in small groups. For the lab tours a registration is necessary. Registration at the information desk will also be possible. **Meeting point:** Institute of Physics, 2nd Floor (at the elevators), Staudingerweg 7, 55128 Mainz.

Please contact Arne Wickenbrock (wickenbr@uni-mainz.de; Phone +49-(0)6131-39-29636) for registration at the lab tours.

Liability Exclusion

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

Acknowledgement

The organisers and the local secretary want to thank the following institutions for supporting the conference:

- Wilhelm and Else Heraeus Foundation
 - Johannes Gutenberg-Universität Mainz
 - all industrial sponsors and supporters (see below)
- and all staff, who contribute the success of the conference.

Supporters of the DPG Spring Meeting Mainz 2017

The logo for moglabs, featuring the word "moglabs" in a stylized, blue, lowercase font with rounded, blocky letters.

Schäfer+Kirchhoff GmbH 
OPTICS, METROLOGY, AND PHOTONICS

The logo for Schäfer+Kirchhoff GmbH, consisting of the company name in a bold, black, sans-serif font, followed by "GmbH" in a smaller font. To the right is a blue square logo with white lines forming a grid and a diagonal line. Below the name is the text "OPTICS, METROLOGY, AND PHOTONICS" in a smaller, black, sans-serif font.The logo for LENS-Optics, with "LENS" in green and "Optics" in blue, both in a bold, sans-serif font.The logo for COHERENT, featuring a black circle with a white asterisk-like symbol inside, followed by the word "COHERENT" in a bold, black, sans-serif font.The logo for VITRONIC, featuring a blue circular icon with a white stylized figure inside, followed by the word "VITRONIC" in a bold, black, sans-serif font. Below the name is the tagline "the machine vision people" in a smaller, blue, sans-serif font.

Timetable DPG AMOP 2017 Mainz

	Monday (06.03.)	Tuesday (07.03.)	Wednesday (08.03.)
09:00		09:00 - 09:45 PV III Thomas Fennel	09:00 - 09:45 PV V Theo Rasing
10:00	10:00 - 10:45 PV I Anne L'Huillier	09:45 - 10:30 PV IV Klaus Blaum	09:45 - 10:30 PV VI Giulio Cerullo
11:00	10:45 - 11:30 PV II David DiVincenzo	11:00 - 13:00 Session III	11:00 - 13:00
12:00	11:30 - 12:30 Opening ceremony	Symposium (SYAP) Atomic & Plasma Physics at FAIR	Symposium (SYAD) SAMOP Dissertationspreis-Symposium
13:00			
14:00			
15:00	14:30 - 16:30 Session I Symposium (SYDD) Driven-dissipative quantum systems (PhD-Symposium jDPG) + MAMI tour	14:30 - 16:30 Session IV	14:30 - 16:30 Session V
16:00		+ QUANTUM lab tours	+ TRIGA tour + ZDF tour
17:00	17:00 - 19:00 Session II	17:00 - 19:00 Postersession I	17:00 - 19:00 Postersession II
18:00			
19:00			
20:00	19:30 - 22:00 Welcome Evening Mensa	19:30 - 21:00 Public evening lecture Jörg Wrachtrup	

Exhibition of physical equipment and literature
LehrInnen-Tag (teachers' day)

Opening times		
	Conference office + infodesk	Wardrobe
Monday, 06.03.2017	08:00 - 19:00	08:00 - 19:30
Tuesday, 07.03.2017	08:00 - 16:00	08:00 - 22:00
Wednesday, 08.03.2017	08:00 - 16:00	08:00 - 19:30
Thursday, 09.03.2017	08:00 - 16:00	08:00 - 19:30
Friday, 10.03.2017	08:00 - 12:00	08:00 - 17:30

	Thursday (09.03.)	Friday (10.03.)
	09:00 - 09:45 PV VII Jean-Pierre Wolf	09:00 - 09:45 PV IX Francesca Calegari
	09:45 - 10:30 PV VIII Peter Rakitzis	09:45 - 10:30 PV X Gerhard Rempe
Exhibition of physical equipment and literature	11:00 - 13:00 Session VI Symposium (SYAM) Atomic Anti-Matter-Physics (part 1)	11:00 - 13:00 Session VIII Symposium (SYLG) Quantum Simulations of Lattice Gauge Theories
	14:30 - 16:30 Session VII Symposium (SYAM) Atomic Anti-Matter-Physics (part 2)	14:30 - 16:30 Session IX (A / Q)
	17:00 - 19:00 Postersession III	
	19:30 - ... jDPG pub crawl	

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Synopsis of the Daily Programme

Monday, March 6, 2017

Mon

Opening Ceremony

11:30 – 12:30 RW 1

Plenary Talks

PV I 10:00 – 10:45 RW 1

From extreme nonlinear optics to ultrafast atomic physics

•*Anne L'Huillier*

PV II 10:45 – 11:30 RW 1

Materials, Devices, and Systems for Quantum Computation

•*David DiVincenzo*

Symposium Driven-dissipative Quantum Systems (SYDD)

Invited Talks

SYDD 1.1 14:30 – 15:00 P 1

Controlling (?) Quantum Dynamics with Open Systems

•*Dieter Meschede*

SYDD 1.2 15:00 – 15:30 P 1

Many-body physics of driven, open quantum systems: optically driven Rydberg gases

•*Michael Fleischhauer*

SYDD 1.3 15:30 – 16:00 P 1

Theorie getriebener dissipativer Quantensysteme / theory of driven dissipative quantum systems

•*Tobias Brandes*

SYDD 1.4 16:00 – 16:30 P 1

Calorimetry of a Bose-Einstein-condensed photon gas

•*Martin Weitz*

Session

SYDD 1 14:30 – 16:30 P 1
Driven-Dissipative Quantum Systems

Atomic Physics Division (A)

Invited Talks

- A 1.1 14:30 – 15:00 HS 20
Tunable entanglement resource in elastic electron-exchange collisions out of chaotic spin systems
•*Bernd Lohmann, Karl Blum, Burkhard Langer*
- A 2.1 14:30 – 15:00 N 1
Towards Atomtronic Interferometry
•*Wolf von Klitzing*
- A 3.1 14:30 – 15:00 N 2
Excited state molecular dynamics: new insights from x-ray spectroscopy and scattering
•*Markus Gühr*
- A 4.1 14:30 – 15:00 N 3
Bound-electron g factor of highly charged ions
•*Andrey Volotka*
- A 6.1 17:00 – 17:30 HS 20
Phase-modulated harmonic light spectroscopy
•*Lukas Bruder, Ulrich Bangert, Marcel Binz, Andreas Wituschek, Marcel Mudrich, Frank Stienkemeier*
- A 6.2 17:30 – 18:00 HS 20
Amplitude and phase control of an atom's optical response
•*Alexander Blättermann, Andreas Kaldun, Veit Stooß, Thomas Ding, Christian Ott, Thomas Pfeifer*
- A 8.1 17:00 – 17:30 N 2
Angular resolved inner-shell photoionization spectra of randomly oriented and fixed-in-space methane and methyloxirane
•*Philipp Demekhin*

- A 8.2 17:30 – 18:00 N 2
 Circular Dichroism in Multi-Photon Ionization of Oriented Helium Ions
•Markus Ilchen, Nicolas Douguet, Tommaso Mazza, Klaus Bartschat, Alexei Grum-Grzhimailo, Nikolay Kabachnik, Michael Meyer

Sessions

- A 1 14:30 – 16:30 HS 20
 Collision Experiments
- A 2 14:30 – 16:30 N 1
 Ultracold atoms and BEC – I (with Q)
- A 3 14:30 – 16:30 N 2
 XUV/X-ray spectroscopy I
- A 4 14:30 – 16:30 N 3
 Precision Spectroscopy I
- A 5 14:30 – 16:30 P 104
 Precision Measurements and Metrology: Gravity (with Q)
- A 6 17:00 – 19:00 HS 20
 Time-resolved spectroscopy
- A 7 17:00 – 19:00 N 1
 Ultracold atoms and BEC – II (with Q)
- A 8 17:00 – 19:00 N 2
 XUV/X-ray spectroscopy II
- A 9 17:00 – 19:00 N 3
 Precision Spectroscopy II
- A 10 17:00 – 18:45 N 6
 Diffraction and Coherences (with MO)
- A 11 17:00 – 19:00 P 104
 Precision Measurements and Metrology: Optical Clocks (with Q)

Molecular Physics Division (MO)

Invited Talks

- MO 1.1 14:30 – 15:00 N 6
Dynamic Solvent Effects Treated with a Quantum/Classical TDSCF Approach
•*Martin Peschel, Julius Zualeck, Florian Rott, Regina de Vivie-Riedle*
- MO 3.1 17:00 – 17:30 N 6
Single-shot coherent diffractive imaging of individual clusters using a high harmonic source
Nils Monserud, Daniela Rupp, Bruno Langbehn, Mario Sauppe, Julian Zimmermann, Yevheniy Ovcharenko, Thomas Möller, Fabio Frassetto, Luca Poletto, Andrea Trabattoni, Francesca Calgari, Mauro Misoli, Katharina Sander, Christian Peltz, Marc J.J. Vrakking, Thomas Fennel, •Arnaud Rouzée

Sessions

- MO 1 14:30 – 16:30 N 6
Photochemistry
- MO 2 14:30 – 16:30 N 25
Precision Experiments on Small Molecules
- MO 3 17:00 – 18:45 N 6
Diffraction and Coherences (with A)
- MO 4 17:00 – 19:00 N 25
Spectroscopy of Cold Molecules and Complexes

Mass Spectrometry Division (MS)

Invited Talks

- MS 1.1 14:30 – 15:00 RW 2
Mass Measurements at LEBIT
•*Martin Eibach, G. Bollen, K. Gulyuz, C. Izzo, M. Redshaw, R. Ringle, S. Schwarz*
- MS 1.2 15:00 – 15:30 RW 2
Precision mass measurements in the context of neutrino-nuclear physics
•*Milad Alanssari, Dieter Frekers, Tommi Eronen*

- MS 2.1 17:00 – 17:30 RW 2
 Single-ion Penning-trap mass spectrometry
 using a single ion as detector
 •*Daniel Rodriguez*

Sessions

- MS 1 14:30 – 16:30 RW 2
 Precision Mass Spectrometry and Fundamental
 Applications I
- MS 2 17:00 – 19:00 RW 2
 Precision Mass Spectrometry and Fundamental
 Applications II

Quantum Optics and Photonics Division (Q)

Sessions

- Q 1 14:30 – 16:30 P 2
 Quantum Information: Concepts and Methods I
- Q 2 14:30 – 16:45 P 3
 Quantum Communication I
- Q 3 14:30 – 16:15 P 4
 Quantum Effects: QED I
- Q 4 14:30 – 16:15 P 5
 Quantum Optics I
- Q 5 14:30 – 16:30 P 104
 Precision Measurements and Metrology: Gravity
- Q 6 14:30 – 16:30 P 204
 Quantum Gases: Bosons I
- Q 7 14:30 – 16:30 N 1
 Ultracold atoms and BEC – I (with A)
- Q 8 17:00 – 19:00 P 2
 Quantum Information: Concepts and Methods II
- Q 9 17:00 – 19:00 P 3
 Quantum Communication II
- Q 10 17:00 – 18:30 P 4
 Quantum Effects: QED II

- Q 11 17:00 – 18:45 P 5
Quantum Optics II
- Q 12 17:00 – 19:00 P 11
Nano-Optics I
- Q 13 17:00 – 19:00 P 104
Precision Measurements and Metrology: Optical
Clocks
- Q 14 17:00 – 19:00 P 204
Quantum Gases: Bosons II
- Q 15 17:00 – 19:00 N 1
Ultracold atoms and BEC – II (with A)

Welcome Evening (for registered participants only)

19:30 Zentralmensa

Tuesday, March 7, 2017

Plenary Talks

- PV IV 09:00 – 09:45 RW 1
Intense laser cluster interactions: nanoscale plasmas in motion
•*Thomas Fennel*
- PV V 09:45 – 10:30 RW 1
Precision measurements of fundamental properties of atomic particles in Penning traps
•*Klaus Blaum*

Symposium Atomic and Plasma Physics at FAIR (SYAP)

Invited Talks

- SYAP 1.1 11:00 – 11:30 P 1
Electrons and ions meet ultracold atoms
•*Herwig Ott*
- SYAP 1.2 11:30 – 12:00 P 1
Interrogating strongly bound electrons about fundamental physics
•*José R. Creso López-Urrutia*
- SYAP 1.3 12:00 – 12:30 P 1
Strong-field effects in heavy-ion collisions
•*Andrey Surzhykov, Vladimir Yerokhin, Thomas Stöhlker, Stephan Fritzsche*
- SYAP 1.4 12:30 – 13:00 P 1
Laser-based high photon flux XUV sources and applications in atomic physics
•*Jan Rothhardt, Robert Klas, Stefan Demmler, Maxim Tschernajew, Jens Limpert, Andreas Tünnermann*

Session

- SYAP 1 11:00 – 13:00 P 1
Atomic and Plasma Physics at FAIR

Atomic Physics Division (A)

Invited Talk

- A 16.1 14:30 – 15:00 N 2
High-power XUV frequency combs
•*Christoph M. Heyl, Gil Porat, Stephen Schoun, Craig Benko, Nadine Dörre, Kristan L. Corwin, Jun Ye*

Sessions

- A 12 11:00 – 13:00 N 6
Clusters I (with MO)
- A 13 11:00 – 13:00 P 104
Precision Measurements and Metrology: Interferometry I (with Q)
- A 14 14:30 – 16:15 HS 20
Highly Charged Ions
- A 15 14:30 – 16:30 N 1
Ultracold atoms and BEC – III (with Q)
- A 16 14:30 – 16:30 N 2
XUV/X-ray spectroscopy III
- A 17 14:30 – 16:15 N 3
Rydberg atoms
- A 18 14:30 – 16:15 N 6
Helium Droplets and Systems (with MO)
- A 19 14:30 – 16:45 P 104
Precision Measurements and Metrology: Interferometry II (with Q)
- A 20 17:00 – 19:00 P OGs
Poster Session I

Molecular Physics Division (MO)

Invited Talks

- MO 5.1 11:00 – 11:30 N 6
Cryo Kinetics and Spectroscopy of 3d Metal Clusters and Alloys
Jennifer Mohrbach, Sebastian Dillinger, Matthias Klein, Amelie Ehrhard, Gereon Niedner-Schatteburg

- MO 6.1 11:00 – 11:30 N 25
Illuminating Molecular Symmetries with Bicircular High-Order-Harmonic Generation
•*Daniel M. Reich, Lars Bojer Madsen*
- MO 7.1 14:30 – 15:00 N 6
Cluster Studies with the BerlinTrap
•*Pablo Nieto, Alan Günther, David Müller, Alex Sheldrick, Otto Dopfer*
- MO 8.1 14:30 – 15:00 N 25
Ultrafast dynamics of a magnetically bistable molecular switch by fs transient absorption spectroscopy
•*Sebastian Megow, Julia Bahrenburg, Hendrik Böhnke, Mats Bohnsack, Mark Dittner, Marcel Dommaschk, Rainer Herges, Friedrich Temps*

Sessions

- MO 5 11:00 – 13:00 N 6
Clusters I (with A)
- MO 6 11:00 – 12:45 N 25
Theory of Molecular Dynamics
- 13:15 N 6
Annual General Meeting
of the Molecular Physics Division
- MO 7 14:30 – 16:15 N 6
Helium Droplets and Systems (with A)
- MO 8 14:30 – 16:30 N 25
Fast Intramolecular Dynamics
- MO 9 17:00 – 19:00 P OGS
Posters 1: Dichroism, VUV and Xray, Clusters,
and Cold Molecules

Mass Spectrometry Division (MS)

Invited Talks

- MS 3.1 11:00 – 11:30 RW 2
Resonant Laser-SNMS on actinides for spatially resolved ultra-trace analysis
•*Clemens Walther, Hauke Bosco, Linda Hamann, Michael Franzmann, Klaus Wendt*

- MS 3.2 11:30 – 12:00 RW 2
 Developments and applications of the Resonance Ionization Laser Ion Source at the CERN-ISOLDE facility
 •Bruce Marsh
- MS 4.1 14:30 – 15:00 RW 2
 Secondary ion mass spectrometry using large gas cluster ion bombardment
 •Hubert Gnaser
- Sessions**
- MS 3 11:00 – 13:00 RW 2
 Resonance Ionization MS and others
- MS 4 14:30 – 15:30 RW 2
 New Methods and Technical Developments
- MS 5 15:30 – 16:15 RW 2
 Cluster

Quantum Optics and Photonics Division (Q)

Sessions

- Q 16 11:00 – 12:45 P 2
 Quantum Information: Concepts and Methods III
- Q 17 11:00 – 13:00 P 3
 Quantum Repeater and Quantum Communication
- Q 18 11:00 – 12:45 P 4
 Quantum Effects: Cavity QED I
- Q 19 11:00 – 12:30 P 5
 Quantum Optics III
- Q 20 11:00 – 13:00 P 11
 Nano-Optics II
- Q 21 11:00 – 13:00 P 104
 Precision Measurements and Metrology: Interferometry I
- Q 22 11:00 – 13:00 P 204
 Quantum Gases: Bosons III

13:15 P 2
Annual General Meeting
of the Quantum Optics and Photonics Division

- Q 23 14:30 – 16:30 P 2
Quantum Information: Concepts and Methods IV
- Q 24 14:30 – 16:15 P 3
Quantum Information: Solid State Systems I
- Q 25 14:30 – 16:15 P 4
Quantum Effects: Cavity QED II
- Q 26 14:30 – 16:00 P 5
Quantum Optics IV
- Q 27 14:30 – 16:30 P 11
Nano-Optics III
- Q 28 14:30 – 16:45 P 104
Precision Measurements and Metrology: Interferometry II
- Q 29 14:30 – 16:45 P 204
Quantum Gases: Bosons IV
- Q 30 14:30 – 16:30 N 1
Ultracold atoms and BEC – III (with A)
- Q 31 17:00 – 19:00 P OGs
Poster: Quantum Optics and Photonics I

Physics Teachers' Day (LT)

Sessions

- LT 3 11:00 – 12:30 HS 19
Vortragvormittag
- LT 4 14:00 – 16:00 Institut für Physik
Präsentation zu den Schülerprogrammen
- LT 5 16:30 – 18:30 HS 19
Aktiver Nachmittag

Exhibition of Scientific Instruments and Literature

09:00 – 17:00 Philosophicum/Foyer ReWi

jDPG Tower Building Contest

10:30 Foyer ReWi

Public Evening Talk

PV VI 19:30 – 21:00 RW 1
Quanten statt Karat: Edle Steine für die For-
schung
• *Jörg Wrachtrup*

Tue

Wednesday, March 8, 2017

Plenary Talks

- PV VII 09:00 – 09:45 RW 1
Femtosecond Opto-Magnetism: Controlling Magnetism by light
•*Theo Rasing*
- PV VIII 09:45 – 10:30 RW 1
Two-dimensional electronic spectroscopy from the visible to the UV
•*Giulio Cerullo*

Symposium SAMOP Dissertation Prize 2017 (SYAD)

Invited Talks

- SYAD 1.1 11:00 – 11:30 RW 1
Exciton transport in disordered organic systems
•*Franziska Fennel*
- SYAD 1.2 11:30 – 12:00 RW 1
Quantum dynamics in strongly correlated one-dimensional Bose gases
•*Florian Meinert*
- SYAD 1.3 12:00 – 12:30 RW 1
Dynamics and correlations of a Bose-Einstein condensate of light
•*Julian Schmitt*
- SYAD 1.4 12:30 – 13:00 RW 1
Circular dichroism and accumulative polarimetry of chiral femtochemistry
•*Andreas Steinbacher*

Session

- SYAD 1 11:00 – 13:00 RW 1
SAMOP Dissertation Prize

Atomic Physics Division (A)

Invited Talks

- A 22.1 14:30 – 15:00 N 2
Electron correlation dynamics in weak and strong fields
•*Christian Ott*
- A 23.1 14:30 – 15:00 N 3
Surface-electrode traps for scalable quantum information processing with atomic ions
•*C. Ospelkaus, H. Hahn, M. Wahnschaffe, G. Zaran-tonello, T. Dubielzig, S. Grondkowski, J. Morgner, M. Kohnen, A. Bautista-Salvador*

Sessions

- A 21 14:30 – 16:30 N 1
Ultracold atoms and BEC – IV (with Q)
- A 22 14:30 – 16:30 N 2
Attosecond Science
- A 23 14:30 – 16:30 N 3
Trapped ions
- A 24 14:30 – 16:30 P 5
Laser Development and Applications (Spec-troscopy) (with Q)
- A 25 14:30 – 16:45 P 104
Ultracold Plasmas and Rydberg Systems (with Q)
- A 26 17:00 – 19:00 P OGs
Poster Session II

Molecular Physics Division (MO)

Invited Talk

- MO 10.1 14:30 – 15:00 N 6
Molecular movies of migrating protons on different paths
•*Heide Ibrahim, Vincent Wanie, Samuel Beaulieu, Benji Wales, Bruno Schmidt, Xiao-Min Tong, Joe Sanderson, Michael Schuurman, François Légaré*

Sessions

- MO 10 14:30 – 16:30 N 6
Highly Excited Molecules and Clusters
- MO 11 14:30 – 16:30 N 25
Molecular Nanostructures and Solids
- MO 12 17:00 – 19:00 P OGs
Posters 2: Molecular Dynamics, Clusters, and
High Resolution Spectroscopy

Mass Spectrometry Division (MS)

Invited Talk

- MS 6.1 14:30 – 15:00 RW 2
Laser Isobar suppression for cooled $^{26}\text{AlO}^-$ and $^{36}\text{Cl}^-$ ions
•Johannes Lachner, Andreas Kalb, Christoph Marek, Martin Martschini, Alfred Priller, Peter Steier, Robin Golser

Sessions

- MS 6 14:30 – 16:30 RW 2
Accelerator Mass Spectrometry and Applications I
- MS 7 17:00 – 19:00 P OGs
Poster

Quantum Optics and Photonics Division (Q)

Sessions

- Q 32 14:30 – 16:15 P 2
Quantum Information: Concepts and Methods V
- Q 33 14:30 – 16:15 P 3
Quantum Information: Solid State Systems II
- Q 34 14:30 – 16:45 P 4
Quantum Effects: Entanglement and Decoherence
- Q 35 14:30 – 16:30 P 5
Laser Development and Applications (Spectroscopy)

- Q 36 14:30 – 16:45 P 11
Photonics I
- Q 37 14:30 – 16:45 P 104
Ultracold Plasmas and Rydberg Systems
- Q 38 14:30 – 16:45 P 204
Quantum Gases: Bosons V
- Q 39 14:30 – 16:30 N 1
Ultracold atoms and BEC – IV (with A)
- Q 40 17:00 – 19:00 P OGS
Poster: Quantum Optics and Photonics II

Exhibition on Scientific Instruments and Literature

09:00 – 17:00 Philosophicum/Foyer ReWi

Thursday, March 9, 2017

Plenary Talks

- PV IX 09:00 – 09:45 RW 1
Controlling atmospheric processes with high intensity lasers
•*Jean-Pierre Wolf*
- PV X 09:45 – 10:30 RW 1
Cavity-based chiral polarimetry: Towards atomic parity nonconservation measurements
•*T. Peter Rakitzis*

Symposium Atomic Anti-Matter Physics (SYAM)

Invited Talks

- SYAM 1.1 11:00 – 11:30 P 1
Buffer gas cooling of antiprotonic helium to $T=1.5-1.7$ K, and the antiproton to electron mass ratio
•*Masaki Hori*
- SYAM 1.2 11:30 – 12:00 P 1
The BASE Experiment: High-precision comparisons of the fundamental properties of protons and antiprotons
•*C. Smorra, M. Besirli, K. Blaum, M. Bohman, M. J. Borchert, J. Harrington, T. Higuchi, H. Nagahama, Y. Matsuda, A. Mooser, C. Ospelkaus, W. Quint, S. Sellner, G. Schneider, N. Schoen, T. Tanaka, J. Walz, Y. Yamazaki, S. Ulmer*
- SYAM 1.3 12:00 – 12:30 P 1
Antihydrogen physics at the ALPHA experiment
•*Niels Madsen*
- SYAM 2.1 14:30 – 15:00 P 1
Muon $g-2$
•*Klaus Jungmann*
- SYAM 2.2 15:00 – 15:30 P 1
Antihydrogen physics at ASACUSA and AEGIS
•*Chloé Malbrunot*

SYAM 2.3 15:30 – 16:00 P 1
An experiment to measure the anti-hydrogen
Lamb shift
•*Paolo Crivelli*

Sessions

SYAM 1 11:00 – 13:00 P 1
Atomic Anti-Matter Physics I

SYAM 2 14:30 – 16:30 P 1
Atomic Anti-Matter Physics II

Atomic Physics Division (A)

Sessions

A 27 11:00 – 12:15 P 5
Laser Applications: Optical Measurement Tech-
nology (with Q)

A 28 11:00 – 13:15 P 104
Ultracold Plasmas, Rydberg Systems and Mole-
cules (with Q)

A 29 14:30 – 16:45 P 5
Ultrashort Laser Pulses: Generation and Appli-
cations (with Q)

A 30 14:30 – 16:30 P 104
Ultracold Atoms I (with Q)

A 31 17:00 – 19:00 P OGS
Poster Session III

Molecular Physics Division (MO)

Invited Talks

MO 13.1 11:00 – 11:30 N 6
Ultrafast solvent fluctuations steer the hydrated
excess proton in the Zundel cation H_5O_2^+
•*Fabian Dahms, Rene Costard, Ehud Pines, Eva Ma-
ria Brüning, Torsten Siebert, Benjamin P. Fingerhut,
Erik T. J. Nibbering, Thomas Elsaesser*

- MO 15.1 14:30 – 15:00 N 6
Tracking electronic processes inside dense matter by luminescence
•*André Knie*
- Sessions**
- MO 13 11:00 – 13:00 N 6
Probing Vibrations
- MO 14 11:00 – 13:00 N 25
Theory of Coupled Systems
- MO 15 14:30 – 16:30 N 6
Environment Controlled Processes
- MO 16 17:00 – 19:00 P OGs
Posters 3: Experimental Techniques and Theoretical Approaches

Mass Spectrometry Division (MS)

Sessions

- MS 8 14:00 – 14:30 RW 2
Annual General Meeting of the Mass Spectrometry Division
- MS 9 14:30 – 17:00 RW 2
Accelerator Mass Spectrometry and Applications II

Quantum Optics and Photonics Division (Q)

Sessions

- Q 41 11:00 – 13:00 P 2
Quantum Information: Concepts and Methods VI
- Q 42 11:00 – 13:00 P 4
Quantum Effects
- Q 43 11:00 – 12:15 P 5
Laser Applications: Optical Measurement Technology
- Q 44 11:00 – 13:00 P 11
Photonics II

- Q 45 11:00 – 13:15 P 104
 Ultracold Plasmas, Rydberg Systems and
 Molecules
- Q 46 11:00 – 13:00 P 204
 Quantum Gases: Fermions I
- Q 47 14:30 – 16:15 P 2
 Quantum Computing I
- Q 48 14:30 – 15:45 P 4
 Optomechanics I
- Q 49 14:30 – 16:45 P 5
 Ultrashort Laser Pulses: Generation and Appli-
 cations
- Q 50 14:30 – 16:00 P 11
 Matter Wave Optics
- Q 51 14:30 – 16:30 P 104
 Ultracold Atoms I
- Q 52 14:30 – 16:45 P 204
 Quantum Gases: Fermions II
- Q 53 17:00 – 19:00 P OGS
 Poster: Quantum Optics and Photonics III

Exhibition of Scientific Instruments and Literature

09:00 – 17:00 Philosophicum/Foyer ReWi

jDPG Pub Crawl

19:30 Carnival Fountain/Schillerplatz

Thu

Friday, March 10, 2017

Plenary Talks

- PV XI 09:00 – 09:45 RW 1
Tracking electron dynamics induced by attosecond pulses in bio-relevant molecules
•*Francesca Calegari*
- PV XII 09:45 – 10:30 RW 1
Quantum Networks: The Missing Link
•*Gerhard Rempe*

Symposium Quantum Simulators of Lattice Gauge Theories (SYLG)

Invited Talks

- SYLG 1.1 11:00 – 11:30 P 1
Quantum Simulation of Lattice Gauge Theories with Cold Atoms and Ions
•*Peter Zoller*
- SYLG 1.2 11:30 – 12:00 P 1
Quantum Simulations with Cold Trapped Ions
Esteban A. Martinez, Christine A. Muschik, Philipp Schindler, Daniel Nigg, Alexander Erhard, Markus Heyl, Philipp Hauke, Marcello Dalmonte, Thomas Monz, Peter Zoller, •Rainer Blatt
- SYLG 1.3 12:00 – 12:30 P 1
Studies of hot and dense nuclear matter at the Large Hadron Collider
•*Boleslaw Wyslouch*
- SYLG 1.4 12:30 – 13:00 P 1
Lattice gauge theory beyond QCD
•*Claudio Pica*

Session

- SYLG 1 11:00 – 13:00 P 1
Symposium Quantum Simulators of Lattice Gauge Theories

Atomic Physics Division (A)

Invited Talks

- A 34.1 11:00 – 11:30 N 2
3d-Photoelectron Momentum Distributions
from Multi-Photon Ionization with Ultra Short
Polarization-Shaped Laser Pulses
•*Matthias Wollenhaupt*
- A 35.1 11:00 – 11:30 N 3
The Nanoplasma Oscilloscope
•*Christian Peltz, A. LaForge, B. Langbehn, R. Michiels, C. Callegari, M. Di Fraia, P. Finetti, R. Squibb, C. Svetina, L. Raimondi, M. Manfreda, N. Mahne, P. Piseri, M. Zangrando, L. Giannessi, T. Möller, R. Feifel, K. C. Prince, M. Mudrich, D. Rupp, F. Stienkemeier, T. Fennel*
- A 37.1 14:30 – 15:00 N 1
Sympathetic cooling of OH⁻ by means of a
heavy buffer gas
•*Henry Lopez, Bastian Höltekemeier, Jonas Tauch, Tobias Heldt, Eric Endres, Roland Wester, Matthias Weidemüller*
- A 39.1 14:30 – 15:00 N 3
Experimental studies of Interatomic Coulombic
Decay
•*Till Jahnke*

Sessions

- A 32 11:00 – 13:00 HS 20
Rydberg gasses I
- A 33 11:00 – 13:00 N 1
Ultracold atoms and BEC – V (with Q)
- A 34 11:00 – 13:00 N 2
Atoms in Strong Fields I
- A 35 11:00 – 13:00 N 3
Clusters II (with MO)
- 13:15 N 1
Annual General Meeting
of the Atomic Physics Division

- A 36 14:30 – 16:15 HS 20
Rydberg gasses II
- A 37 14:30 – 16:00 N 1
Ultracold atoms and BEC – VI (with Q)
- A 38 14:30 – 16:30 N 2
Atoms in Strong Fields II
- A 39 14:30 – 16:30 N 3
Clusters III (with MO)
- A 40 14:30 – 16:30 P 104
Ultracold Atoms II (with Q)

Molecular Physics Division (MO)

Invited Talk

- MO 17.1 11:00 – 11:30 N 6
Molecular-Frame Photoelectron Imaging of Controlled Complex Molecules
•Joss Wiese, Sebastian Trippel, Jochen Küpper

Sessions

- MO 17 11:00 – 13:00 N 6
Experimental Techniques
- MO 18 11:00 – 13:00 N 25
Biomolecules and Electron Transfer
- MO 19 11:00 – 13:00 N 3
Clusters II (with A)
- MO 20 14:30 – 16:30 N 3
Clusters III (with A)

Quantum Optics and Photonics Division (Q)

Sessions

- Q 54 11:00 – 13:00 N 1
Ultracold atoms and BEC – V (with A)
- Q 55 14:30 – 16:15 P 2
Quantum Computing II

- Q 56 14:30 – 15:45 P 4
Optomechanics II
- Q 57 14:30 – 16:30 P 104
Ultracold Atoms II
- Q 58 14:30 – 16:30 P 204
Quantum Gases: Fermions III
- Q 59 14:30 – 16:00 N 1
Ultracold atoms and BEC – VI (with A)



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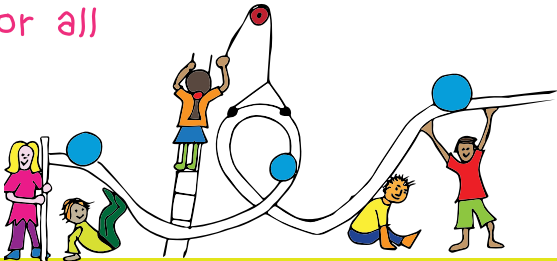
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Index of Exhibitors Mainz 2017

Johannes Gutenberg University Mainz

Opening Hours Exhibition: Tuesday - Thursday 9:00 - 17:00

Company	Location	Stand- No.
Agilent Technologies Sales & Services GmbH & Co. KG Lyoner Straße 20, 60528 Frankfurt/M. <i>Vakuumpumpen, Vakuummessgeräte, Lecksucher</i>	ReWi	58
AHF analysentechnik AG Kohlplattenweg 18, 72074 Tübingen <i>Optische Filter und Lichtquellen</i>	ReWi	61
Ametek, TMC GmbH Rudolf-Diesel-Straße 16, 40670 Meerbusch <i>Material Testing System: dielektrische Charakterisierung (I, U, C, R, Y) von 5K - 1500K; Photoelectrochemical System: opto-elektrische Charakterisierung von photoelektro-chemischen Systemen u.v.m.</i>	Phil Süd	43
AMS Technologies AG Fraunhoferstraße 22, 82152 Martinsried <i>AMS Technologies is a leading solution provider and distributor of high-tech components, systems and equipment. Our focus at DPG: active optical components (light sources), passive optical components (fiber-based products, optics, optomechanics), cooling solutions and power electronics</i>	Phil Süd	41
APE Angewandte Physik und Elektronik GmbH Plauener Str. 163 - 165, Haus 13, 13053 Berlin <i>Die APE GmbH ist ein führendes Unternehmen im Bereich der optisch parametrischen Oszillatoren, der Diagnostik und Handhabung von ultrakurzen Pulsen, der Generierung Harmonischer wie auch der Akustooptik.</i>	Phil Süd	44
attocube systems AG Königinstraße 11 A, Rückgebäude EG, 80539 München <i>Nanopositionierer, Tieftemperatur-Mikroskopie, Kryostaten</i>	Phil West	13

Bernhard Halle Nachfl. GmbH		
Optische Werkstätten	Phil Süd	29
Hubertusstraße 10, 12163 Berlin		
<i>Polarisationsoptik, Linsensysteme, Optische Komponenten</i>		
Coherent (Deutschland) GmbH	Phil Süd	36
Dieselstraße 5 b, 64807 Dieburg		
<i>Festkörper-Laser, Ultrafast-Laser, CO2-Laser, Excimer-Laser, Lasermesstechnik</i>		
ColdEdge Technologies	Phil Süd	39
905 Harrison Street, Suite 134, Allentown, PA 18103, USA		
<i>ColdEdge provides custom <3K to 1000K cryogenic systems. Design the best solution for your experiment's unique needs. GM & Pulse Tube, Open Flow (LHe LN2), Sample in Vapor, Sample in Vacuum, UHV, ULV</i>		
Dr. Iva Cermakova CGC Instruments	Phil West	6
Hübschmannstraße 18, 09112 Chemnitz		
<i>www.cgc-instruments.com</i>		
Edwards Ltd.	Phil Süd	42
Burgess Hill, West Sussex, RH15 9TW, United Kingdom		
<i>R&D</i>		
Hamamatsu Photonics Deutschland GmbH	Phil Ost	19
Arzbergerstraße 10, 82211 Herrsching		
<i>Photomultiplier Tubes & Modules, MCP, Hybriddetektoren, MPPC, MPPC Module und weitere Halbleiterdetektoren</i>		
HORIBA Jobin Yvon GmbH	ReWi	59
Neuhofstraße 9, 64625 Bensheim		
<i>Ihr Partner für instrumentelle Analytik und innovative Spektroskopie</i>		
Hositrad Deutschland	Phil Ost	23
Lindnergasse 2, 93047 Regensburg		
<i>CF, KF, ISO, UHV-Vakuumbauteile, Elektrische Durchführungen, Membranbalgen, Special Products</i>		
Hubner GmbH & Co. KG	ReWi	60
Heinrich-Hertz-Straße 2, 34123 Kassel		
<i>www.hubner-group.com</i>		

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 Bautzner Landstraße 23, 01454 Radeberg / Rossendorf
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Jäger Computergesteuerte Messtechnik GmbH Phil Süd 30
 Rheinstraße 4, 64653 Lorsch
ADwin Echtzeitsysteme für nanosekundengenaue Mess-, Steuer- und Regelaufgaben

LASER 2000 GmbH Phil Süd 40
 Argelsrieder Feld 14, 82234 Weßling
Laser & Strahlquellen, Optik & Optomechanik, Optische Messtechnik, Laserschutz, LWL-/Netzwerktechnik

LASERVISION GmbH & Co. KG ReWi 55
 Siemensstraße 6, 90766 Fürth
Laser- und Justierschutzbrillen, Laserschutzfenster aus Kunststoff oder Glas, Laserschutzfolien, großflächige Schutzsysteme, modulare Stellwandsysteme, modulare Vorhangsysteme inkl. Gestell oder Schienensystem

LIOP-TEC GmbH Phil Ost 27
 Industriestraße 4, 42477 Radevormwald
Farbstofflaser, Optomechanik

LOT-QuantumDesign GmbH Phil Süd 37
 Im Tiefen See 58, 64293 Darmstadt
Magnetometer, supral. Magnetsysteme, Elektronik-Komp., CCD-, ICCD, EMCCD-Detektoren, Spektrographen

M Squared Lasers Ltd Phil Süd 45+46
 West of Scotland Science Park, Maryhill Road, Glasgow, G20 0SP, United Kingdom
Photonics technology company M Squared develops advanced laser platforms and actively collaborates with leading universities, research institutions and industries around the world. Specialists in the fields of quantum technology, biophotonics and chemical sensing.

Exhibition

mechOnics AG	Phil Süd	48
Unnützstraße 2/B, 81825 München <i>Mikropositionierer mit Piezoträgheitsantrieb und Schrittmotor, Piezo- und Schrittmotorsteuerungen (www.mechOnics.com)</i>		
Menlo Systems GmbH	Phil Ost	15+16
Am Klopferspitz 19a, 82152 Martinsried <i>Optical Frequency Combs and Ultrastable CW Lasers for Metrology, Femtosecond Lasers, Microjoule Lasers, Phase Stabilization of Few-Cycle Pulses, Ultrafast Detectors, Terahertz Time Domain Solutions, Antennas and Components</i>		
MOG Labs Europe	Phil Ost	17
Goethepark 9, 10627 Berlin <i>RF-Synthesizer, Cateye-ECD-Laser, ECDL-Controller, Wave-meter, optical amplifier</i>		
MRC Systems GmbH Medizintechnische Systeme	Phil Ost	20
Hans-Bunte-Straße 10, 69123 Heidelberg <i>Laser-Strahlstabilisierungen für Strahlagen, schnelle Positionsdetektoren, Laserspiegel-Aktuatoren (0.5 - 4-Zoll-Spiegel), stabilisierte Fasereinkopplung, Shutter, kundenspezifische Lösungen</i>		
Newport Spectra-Physics GmbH	Phil West	14
Guerickeweg 7, 64291 Darmstadt <i>Laser, Oriel Produkte, feinm. Komponenten, motor. Positionierer, Schwingdämpfung</i>		
NEXLASE GmbH	Phil West	4
Industriestraße 51, 82194 Gröbenzell <i>Pumplaser DPSS</i>		
Owis GmbH Feinmechanische und	Phil West	3
Im Gaisgraben 7, 79219 Staufen i. Br. <i>Strahlführungssysteme, Positioniersysteme</i>		
Pfeiffer Vacuum GmbH	Phil Süd	38
Berliner Str. 43, 35614 Asslar <i>Vakuumpumpen und -komponenten</i>		

Physik Instrumente (PI) GmbH & Co. KG	Phil Süd	34
Auf der Römerstraße 1, 76228 Karlsruhe <i>Nano- und Mikropositioniertechnik</i>		
Qioptiq Photonics GmbH & Co. KG	Phil West	2
Königsallee 23, 37081 Göttingen <i>Präzisionsoptik und Mechanik, Faseroptik, Aufbausysteme, Optische Tische</i>		
Quantel	ReWi	50
2 Bis avenue du Pacifique, BP 23, 91940 LES ULIS cedex, France <i>Festkörperlaser, Faserlaser, Atomkühlung</i>		
qutools GmbH	Phil West	9
Geissacher Straße 18, 81371 München <i>Produkte zur Quanteninformationsverarbeitung, z. B. verschränkte Photonenpaarquellen</i>		
Radiant Dyes Laser Acc. GmbH	Phil Ost	24
Friedrichstraße 58, 42929 Wermelskirchen <i>Dye Laser cw & gepulst, Ti:Sa Laser cw & gepulst, Excimer Laser, Optomechanik, Lasierzubehör</i>		
Sacher Lasertechnik GmbH	Phil West	5
Rudolf-Breitscheid-Straße 1-5, 35037 Marburg/Lahn <i>Durchstimmbare Laserdioden, Laser Controller</i>		
SAES Getters S.p.A.	ReWi	57
Viale Italia, 77, 20020 Lainate (Milan), ITALY <i>UHV NEG-Pumpen, Alkalimetall-Dispenser, Hochvakuum-pumpen, Getter</i>		
Schäfter + Kirchhoff GmbH Optics, Metrology and Photonics	Phil Süd	33
Kieler Straße 212, 22525 Hamburg, <i>Faseroptik-Komponenten, Polarisations-Analysator, Faserkolimatoren</i>		
SEKELS GmbH	Phil Ost	26
Dieselstraße 6, 61239 Ober-Mörlen <i>Weichmagnetische Halbzeuge, Abschirmungen, Magnetsysteme und induktive Bauelemente</i>		

Single Quantum B.V.	Phil West	11
van der Waalsweg 8, 2628CH Delft, The Netherlands <i>Single Quantum SNSPD (superconducting nanowire single photon detector) system / Entropy closed-cycle cryostats for Kelvin and milliKelvin temperature range</i>		
Sirah Lasertechnik GmbH	Phil Ost	18
Heinrich-Hertz-Straße 11, 41516 Grevenbroich <i>Durchstimmbare Lasersysteme: gepulste ns-/ps Farbstoff-Lasersysteme, cw-Farbstoff-Lasersysteme, gepulste ns- und cw-Ti:Saphir-Lasersysteme, cw-Frequenzverdoppler, Farbstoffe, Optik</i>		
Springer-Verlag GmbH	Phil Süd	47
Tiergartenstraße 17, 69121 Heidelberg <i>Wissenschaftliche Bücher und Zeitschriften</i>		
Swabian Instruments GmbH	Phil West	7
Frankenstraße 39, 71701 Schwieberdingen <i>Time Tagger 20, 8 channel streaming time-to-digital converter with <60 ps resolution, Pulse Streamer 8/2, synchronous digital pattern and arbitrary waveform generator</i>		
TEM Messtechnik GmbH	Phil Süd	35
Großer Hillen 38, 30559 Hannover <i>Laserelektronik, Messtechnik, Entwicklung</i>		
THORLABS GmbH	Phil West	10+12
Hans-Boeckler-Straße 6, 85221 Dachau <i>Optische & optomechanische Komponenten, Test & Measurement Systeme, opt. Tische & Vibrationskontrolle, Nanopositionierungen, opt. Fasern, Lichtquellen, Imaging, Mikroskopie & Life Science Komponenten</i>		
TOPAG Lasertechnik GmbH	Phil Süd	32
Nieder-Ramstädter-Straße 247, 64285 Darmstadt <i>Laser und Optische Messtechnik</i>		
TOPTICA Photonics AG	Phil Ost	21+22
Lochhamer Schlag 19, 82166 Gräfelfing / München <i>Tunable Diode Lasers with New Digital Control Electronics, Amplified and Frequency-Converted Diode Lasers, Femtosecond/Picosecond Fiber Lasers, Wavelength Meters</i>		

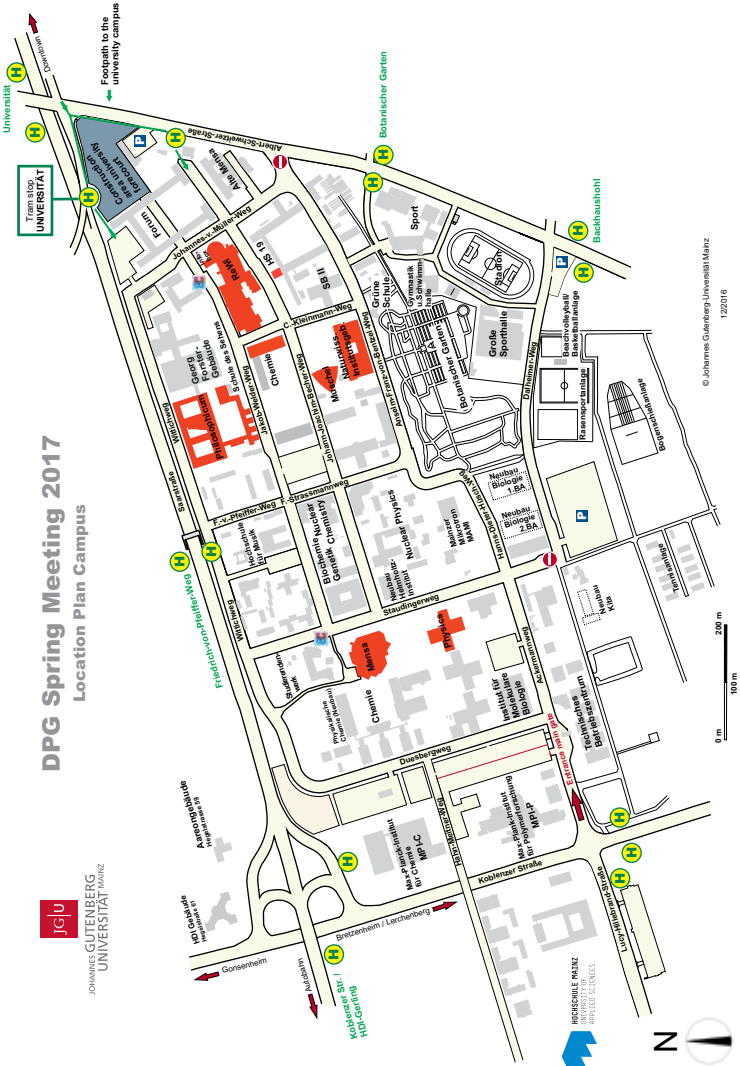
VENTEON Laser Technologies GmbH
 Hollerithallee 17, 30419 Hannover
 Laser Quantum GmbH

Phil West 1

Zurich Instruments AG
Marketing and Sales

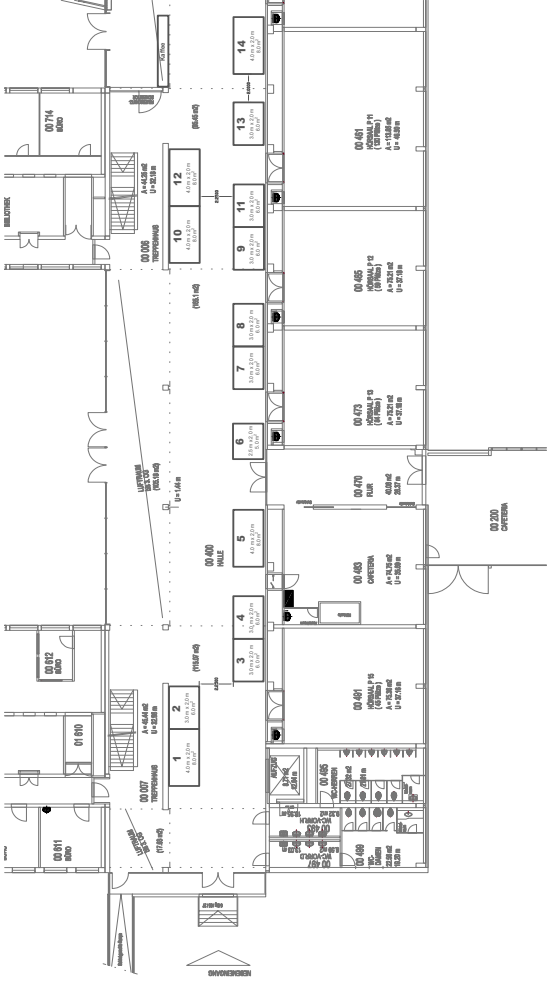
Phil Süd 31

Technoparkstrasse 1, 8005 Zurich, SWITZERLAND
Lock-in amplifiers, phase-locked loops, arbitrary waveform generator, impedance analyzers, digitizers, boxcar averagers



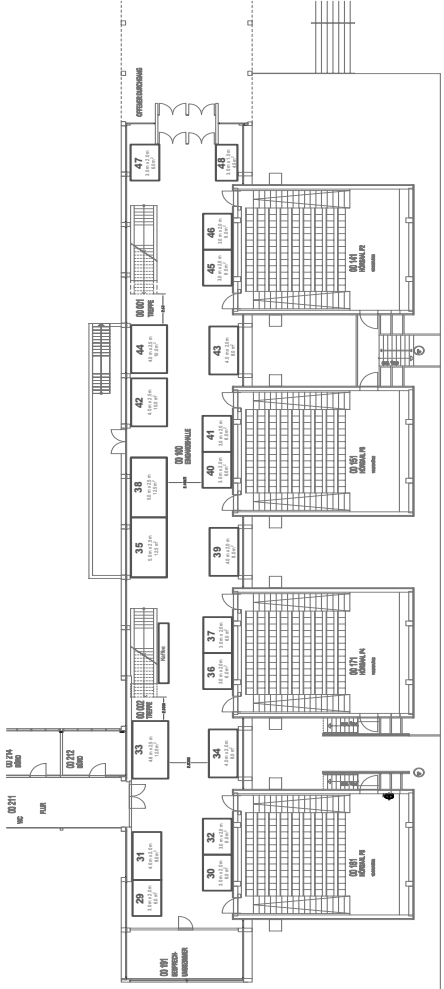
Industrie- und Buchausstellung Mainz 2017

Philosophicum
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