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DPG-Frühjahrstagung 2017 (Spring Meeting)

of the **Condensed Matter Section (SKM)**

together with the **DPG Divisions**

History of Physics, Microprobes, Physics

Education

and the **Working Groups**

Accelerator Physics, Equal Opportunities,

Young DPG

Short Programme

**Technical University
of Dresden**

19 – 24 March 2017

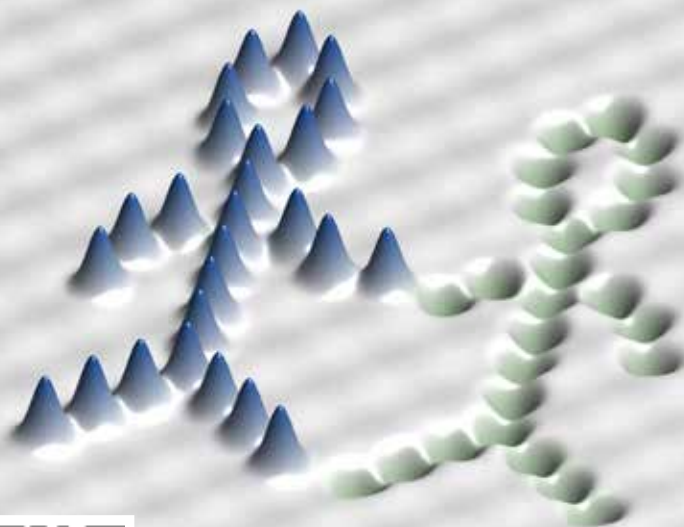


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Verantwortlich für den Inhalt:
Dr. Bernhard Nunner (Hauptgeschäftsführer)
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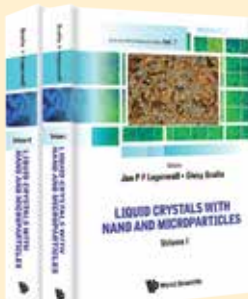
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New in Condensed Matter Physics



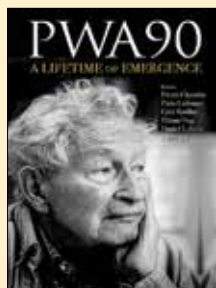
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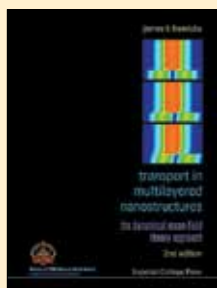
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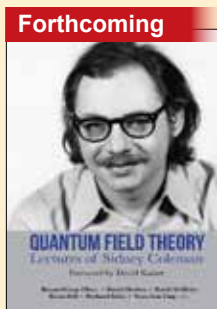
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Greeting

Dear Participants,

I cordially welcome you to the DPG-Frühjahrstagung (Spring Meeting) at the Technische Universität Dresden of the Condensed Matter Section (SKM) with the divisions and working groups involved. 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 associa-

tions 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.

I would like to thank the TU Dresden 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 SKM with the divisions and working groups involved for a great programme. My special thanks go to the Local Organising Committee, Prof. Ludwig Schultz and Prof. Dr. Kornelius Nielsch, Leibniz Institute for Solid State and Materials Research Dresden, and their entire 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. D. Heuer', with a stylized flourish at the end.

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

Organisation

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Chairs of the Participating Divisions of the DPG

- (BP) Biological Physics
– Prof. Dr. Helmut Grubmüller (hgrubmu@gwdg.de)
- (CPP) Chemical and Polymer Physics
– Prof. Dr. Dieter Neher (neher@uni-potsdam.de)
- (DD) Physics Education
– Prof. Dr. Grebe-Ellis (grebe-ellis@uni-wuppertal.de)
- (DF) Dielectric Solids
– PD Dr. Elisabeth Soergel (soergel@uni-bonn.de)
- (DS) Thin Films
– Prof. Dr. Norbert Esser (norbert.esser@isas.de)
- (DY) Dynamics and Statistical Physics
– Prof. Dr. Walter Zimmermann
(walter.zimmermann@uni-bayreuth.de)
- (GP) History of Physics
– Dr. Christian Forstner
(christian.forstner@uni-jena.de)
- (HL) Semiconductor Physics
– Prof. Dr. Christoph Lienau
(christoph.lienau@uni-oldenburg.de)
- (KR) Crystallography
– Prof. Dr. David Rafaja (rafaja@ww.tu-freiberg.de)
- (MA) Magnetism
– Prof. Dr. Michael Farle (farle@uni-due.de)
- (MM) Metal and Material Physics
– Prof. Dr. Jörg Neugebauer (neugebauer@mpie.de)
- (MI) Microprobes
– Dr. Enrico Langer (langer@physik.tu-dresden.de)
- (O) Surface Science
– Prof. Dr. Christof Wöll (christof.woell@kit.edu)
- (SOE) Physics of Socio-economic Systems
– Priv.-Doz. Dr. Jens C. Claussen
(j.claussen@jacobs-university.de)
- (TT) Low Temperature Physics
– Prof. Dr. Reinhold Kleiner
(reinhold.kleiner@uni-tuebingen.de)
- (VA) Vacuum Science and Technology
– Dr.-Ing. Thomas Giegerich
(thomas.giegerich@kit.edu)

Chairs of the Participating Working Groups

- (AKBP) Accelerator Physics
– Prof. Dr. Wolfgang Hillert
(wolfgang.hillert@desy.de)
- (AKC) Equal Opportunities
– Dr. Susanne Kränkl
(susanne.kraenkl@googlemail.com)
- (AGjDPG) Young DPG
– Matthias Dahlmanns (dahlmanns@jdpdg.de)

Symposia

- SYBM – Bioinspired Functional Materials: From Nature's Nanoarchitectures to Nanofabricated Designs
- SYCE – Novel Functionality and Topology-Driven Phenomena in Ferroics and Correlated Electron Systems
- SYCM – Physics of Collective Mobility
- SYES – Frontiers of Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond
- SYLI – Interfacial Challenges in Solid-State Li Ion Batteries
- SYLM – Optics and Light-Matter Interaction with Excitons in 2D Materials
- SYNS – Nanostructuring Beyond Conventional Lithography
- SYQO – Quantum Optics on the Nanoscale: From Fundamental Physics to Quantum Technologies
- SYSD – SKM Dissertation Prize

Organisation of the Exhibition of Scientific Instruments and Literature

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

Programme

The scientific programme consists of 5,213 contributions:

- 12 Plenary Talks
- 1 Evening Talks
- 13 Prize Talks
- 4 Lunch Talks
- 278 Invited Talks
- 53 Topical Talks
- 14 Tutorials
- 3144 Contributed Talks
- 1689 Posters
- 5 Workshops

Information for Participants

The conference will be held March 19-24, 2017.

Conference Information

Conference Venue

Technische Universität Dresden
Campus Südvorstadt
Bergstraße 64
01069 Dresden

The central activities like registration etc. will take place in the Lecture Hall Center (HSZ) of the TU Dresden (Bergstraße 64). For a detailed map of the campus and the buildings please see end of this booklet. The position of the lecture rooms on the campus can be found at the campus navigator of TU Dresden <https://navigator.tu-dresden.de/> or the DPG-App (see page 12).

Conference Office / Information Desk

The conference office and the information desk are located in the Lecture Hall Center.

		Registration	Information Desk
Sunday	March 19	15:00 – 19:00	15:00 – 20:00
Monday	March 20	08:00 – 19:00	08:00 – 20:00
Tuesday	March 21	08:00 – 16:00	08:00 – 18:00
Wednesday	March 22	08:00 – 16:00	08:00 – 18:00
Thursday	March 23	08:00 – 16:00	08:00 – 18:00
Friday	March 24	08:00 – 12:00	08:00 – 15:00

Beside this programme you have received your name tag, a receipt for your conference fee, a conference ticket and the Login-Password for using WLAN (WiFi). The name tag must be worn visibly during the entire conference. Your name tag in combination with the conference ticket will authorise you to use all buses, trams and S-Bahn of the public transport (DVB AG) in Dresden from March 19 to 24, 2017. The conference ticket is printed on the name tag. A map of public transport in Dresden is included in the registration material and is available at the information desk.

Note: Students of the TU Dresden will not receive a conference ticket on the name tag.

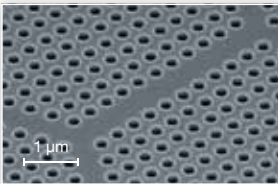
The organisers, staff of the conference desk and student assistants will be identifiable by colored name tags and Φ -T-shirts. Please contact them if you have any questions.

FIB



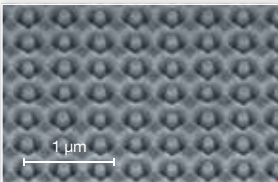
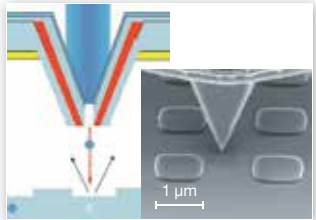
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Do not hesitate to inquire about all necessary information concerning the conference, orientation in Dresden, accommodation, restaurants, going out and cultural events at the information desk.

Lecture Rooms

The lecture rooms will be signposted by abbreviations for the respective buildings and the room number.

Abbr.	Building
	<i>(see also: https://navigator.tu-dresden.de/)</i>
BAR	Barkhausen-Bau
CHE	Chemiegebäude (Chemistry Building)
GER	von-Gerber-Bau
GÖR	Görges-Bau
HSZ	Hörsaalzentrum (Lecture Hall Center)
HÜL	Hülse-Bau
IFW	Leibniz-Institut IFW Dresden
MER	Merkel-Bau
MOL	Mollier-Bau
REC/PHY	Recknagel-Bau (= Physikgebäude)
POT	Potthoff-Bau
SCH	Georg-Schumann-Bau
TRE	Trefftz-Bau
WIL	Willers-Bau
ZEU	Zeuner-Bau
Tents	Tents behind the Lecture Hall Center / Exhibition

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 „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. Presentations with a German abstract will be given in German.

Oral Presentation

Lecturers are requested to provide their presentations

electronically. All lecture rooms are equipped with a projector (“beamer”) with VGA input. The projectors mainly display in the 4:3 format. However they are compatible with the 16:9, limited to the display width. Some newer systems also work directly with 16:9. OHPs are not available.

Laptops must be provided by the speakers as well as all associated adapters (e.g. HDMI to VGA, Apple-adapter). Furthermore, the presentation should be recorded onto an USB stick as back-up in PDF and Power Point format.

All laptops must be set up and connected with the data projector before the start of the respective session. All rooms will be opened, at latest, 40 minutes prior to the lecture. Speakers are requested to be in the lecture room at least 25 minutes prior to the start of the session*, to report to the chairperson as well as the technical staff, to ensure that the laptops handshake with the projector, and to receive a brief introduction to the equipment in the lecture room.

** In HSZ 01, 02, 03, and in GER 38 it is recommended to transfer the presentation on the day before the lecture or on Monday morning.*

Poster Presentation

Sites for poster sessions are named and located as follows:

- P1A Tent A behind the Lecture Hall Center (Exhibition Tent)
- P1C Tent C behind the Lecture Hall Center
- P2 Lecture Hall Center (HSZ): foyer (EG), 1st (OG1), 2nd (OG2), 3rd (OG3) and 4th (OG4) floor (hallway)
- P3 Chemistry Building (CHE) in the foyer
- P4 Leibniz-Institute IFW Dresden (IFW) in the Atrium next to room IFW A

Posters must fit within a rectangle 90 cm wide and 120 cm high (DIN A0), portrait format!

The poster boards will be marked with the number according to the scientific programme. Authors are asked to mount their poster when the poster board is prepared with the corresponding poster number. Usually this will be arranged in the morning, or 1.5 hours before the session when there are several poster sessions per day**. Each poster should display the number according to the scientific programme.

For the mounting of the poster please use the prepared “power strips” at the poster frame or contact the available student staff. Please make sure to use only power strips for mounting the poster (residue-free removing). The present-

ing 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 display walls after the poster session will be removed and destroyed without requesting your permission. The conference management accepts no liability for the posters.

*** several poster sessions per day: Monday P3 and Tuesday P1A, P1C, P2-EG and P2-OG1*

General Information

Internet

EDUROAM

The TU Dresden and IFW Dresden are members of the eduroam-network. Users from eduroam institutions, who have registered for eduroam, can use WLAN at the TU Dresden / IFW without local registration in Dresden. Eduroam in Dresden is possible with WLAN SSID eduroam.

WLAN (WiFi)

In addition internet access is possible via W-LAN network (WiFi) in almost all buildings of the TU-Campus.

WLAN in the buildings of TU-Campus

For internet access at TU Dresden, please use your individual login-password on your registration document. The network is called VPN/WEB. (If you cannot find this network, the wireless-LAN is unfortunately not available at your location.) If you are connected to the VPN/WEB network and you open an arbitrary website with your browser, the login window for the wireless-LAN appears. Please enter the user name and password provided. With login, you can use the internet access. This connection is not encrypted.

WLAN in Leibniz-Institute IFW Dresden

In the building of IFW Dresden, WLAN access is possible in front of rooms IFW A, B and D. Please connect SSID 'DPG2017'. No authorization is required. This connection is not encrypted.

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PC-POOL

Access to the internet is also available in the computer room in von-Gerber-Bau, GER 221. The opening hours are Monday to Thursday from 08:00 to 19:00 and Friday from 08:00 to 14:00.

Discussion with Plenary Speakers (Speakers' Corner)

There is the possibility of informal discussions with the plenary speakers after each plenary session. The meeting place is open immediately after the plenary talk in room E03 of the Lecture Hall Center (HSZ) next to the information desk. Coffee, tea and refreshments are available.

Message Board

All alterations to the scientific programme will be announced via the conference website "Notice Board". All further important information for participants is displayed on a message board in the foyer of the Lecture Hall Center (HSZ).

Public Working Area

In the Chemistry Building, room CHE 184 there is a public room where you can work on your laptop.

Cloakroom

A guarded cloakroom is located in the basement of the Lecture Hall Centre (HSZ). The opening hours are Sunday to Thursday until 21:00 and Friday until 15:00.

Lost and Found Property

You can bring found items to the Lecture Hall Center, room E03 (next to the information desk). There you can also get your lost property back.

Catering

Coffee Breaks

Coffee and tea are offered for free during the breaks in nearly all conference locations (see also in the legend of the campus map). The coffee breaks are from Monday to Thursday at around 09:00 and 14:00 as well as on Friday at around 09:00.

Snacks

You can get coffee, tea, refreshments and snacks as indicated in the campus map at the:

Lecture Hall Centre (HSZ) basement
(only Sunday 15:00 – 18:00)

Tent B behind the Lecture Hall center
(Monday to Thursday, 8:00 – 19:00; Friday, 8:00 – 14:00)

„Grill-Cube“ next to the exhibition tent B
(Monday to Friday, 8:00 – 15:00)

Zeuner-Bau (ZEU) in room ZEU 148
(Monday to Thursday 8:00 – 19:00; Tuesday, 8:00 – 16:00)

Restaurant of the Leibniz-Institute IFW Dresden
(Monday to Friday, 8:00 – 15:30)

„insgrüne coffeebar“ in Georg-Schumann-Bau (SCH)
(Monday to Friday, 8:30 – 15:00)

„BioMensa U-Boot“ in Potthoff-Bau (POT)
(Monday to Friday, 8:30 – 15:00)

Cafeteria Mensa Mommsenstraße
(Monday to Friday, 8:00 – 15:00)

Cafeteria Mensa Zeltschlösschen
(Monday to Thursday, 7:00 to 16:00, Friday, 7:00 – 15:00)

as well as at Bergstr. 68 „FIRAT-Kebap-Haus“ and Münchner Str. „DERSIM-Dürüm-Kebab-Haus“ and bakery „Möbius“.

Lunch

The Mensa Zeltschlösschen and the Mensa Mommsenstraße offer plenty of opportunities for lunch at moderate prices (self-payment). Opening times are Monday to Friday, 11:00 to 14:30. The IFW restaurant offers regular meals for a limited number of conference participants from Monday to Friday, 12:30 to 14:00.

Events

Tutorials

On Sunday, March 19, 16:00 – 18:30, there will be workshops on current scientific topics for interested conference participants, in particular for students and young scientists. All conference participants are welcome.

Topics:

Ferroics and Skyrmions (HSZ 304)

Micromagnetic Simulations (HSZ 401)

Pattern Formation in Nature and Materials (HSZ 04)

Festkörperbatterien (HSZ 403)

Following the tutorials, the **Robert-Wichard-Pohl-Prize Talk** will be given by Prof. Metin Tolan, TU Dortmund

“Die STAR TREK Physik: Warum die Enterprise nur 158 Kilo wiegt und andere galaktische Erkenntnisse”

Sunday, March 19, 18:45 – 19:30, HSZ 01

All conference participants are welcome.

Welcome Evening

On Sunday, March 19, at 19:00 the Welcome Evening will be held in the Mensa Mommsenstraße. Small food, beer and soft drinks will be served. Do not miss the opportunity to register (15:00 to 19:00) before the official beginning of the conference and to meet people in an informal atmosphere. Please wear your name tag which you have received at the registration.

Public Evening Talk

Monday, March 20, 20:00 – 21:00, HSZ 01 (Audimax)

Prof. Dr. Jens Frahm, MPI für Biophysikalische Chemie, Göttingen

„Magnetresonanz-Tomografie in Echtzeit“

The Public Evening is open for all conference participants and the interested public. Please note that the talk will be given in German. The entrance is free.

Free beer will be offered for all conference participants prior to the Evening Talk: Monday, March 20, 19:00 in HSZ.

EinsteinSlam

Tuesday, March 21, 20:00, HSZ 01 (Audimax)

EinsteinSlam is the competitive art of making complex science accessible to a broad audience. There are just 10 minutes for every attendee to present his/her self-made performance. The event will finish with a public poll in order to evaluate if a particular contribution was either instructive and amusing or rather should have never been performed. All presentations will be given in German. For more information please refer to www.einstein-slam.de.

Ceremonial Session with Award Ceremony (in German language)

On Tuesday, March 21, at 16:15 the Ceremonial Sessions with Award Ceremony will take place in HSZ 01 (Audimax). The programme is as follows:

Music

„Dresdner Salondamen“

Welcome

Prof. Dr. Ludwig Schultz, IFW Dresden
Local Organiser

Prof. Dr. Gerhard Rödel, TU Dresden
Vice-President for Research

Speech

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

Music

Award Ceremony

Walter-Schottky-Prize 2017

to Dr. Helmut Schultheiß
Helmholtz-Zentrum Dresden-Rossendorf

Gaede-Prize 2017

to Dr. Guillaume Schull
Institut de Physique et Chimie des Matériaux
de Strasbourg, France

SKM Dissertation Prize 2017

(The Laureate will be announced after the SKM Dissertation Prize Symposium)

Early Career Award 2017

to Prof. Dr. Sebastian Deffner
UMBC Baltimore, USA

Horst-Klein-Prize 2017

(The Laureate was not chosen at the time of going to press.)

Festsitzung

Deutsche Physikalische Gesellschaft

Preisverleihung

Walter-Schottky-Preis 2017

an Dr. Helmut Schultheiß
(Helmholtz-Zentrum Dresden-Rossendorf)

Gaede-Preis 2017

an Dr. Guillaume Schull
(IPCMS, DSI, Strasbourg, France)

SKM-Dissertationspreis 2017

(Der/die Preisträger/in wird nach dem
SKM-Dissertationspreissymposium SYSD ernannt)

Early Career Award des New Journal of Physics

an Prof. Dr. Sebastian Deffner
(UMBC, Department of Physics, Baltimore, MD USA)

Horst-Klein-Preis

(Der/die Preisträger/Preisträgerin stand zum Redaktions-
schluss noch nicht fest)

Festvortrag

*„Molecular Semiconductors for LEDs and Solar Cells:
Designing around the Coulomb Interaction“*

Prof. Richard Friend,
(Cavendish Laboratory, University of Cambridge, UK)

Dienstag, 21. März 2017, 16:15 – 18:15 Uhr
Audimax (HSZ 01)



Ceremonial Lecture

Professor Sir Richard Friend,
St. John's College, United Kingdom

"Molecular Semiconductors for LEDs and Solar Cells: Designing around the Coulomb Interaction"

Prize Talks – DPG Awards

Max-Planck-Medaille 2017

(Prize will be awarded at the Annual Meeting in Münster,
March 27 - 31, 2017)

Prof. Dr. Herbert Spohn, Technical University of Munich

"Random Matrix Theory and Growing Interfaces in one Dimension"

Monday, March 20, 13:15 – 13:45, HSZ 01

Stern-Gerlach-Medaille 2017

(Prize will be awarded at the Annual Meeting in Münster,
March 27 - 31, 2017)

Prof. Dr. Laurens W. Molenkamp, University of Würzburg

"Topological Insulators: a New State of Matter"

Tuesday, March 21, 13:15 – 13:45, HSZ 01

Walter-Schottky-Prize 2017

Dr. Helmut Schultheiß
Helmholtz-Centre Dresden-Rossendorf

"Magnon Transport in Spin Textures"

Wednesday, March 22, 15:00 – 15:30, HSZ 04

Georg-Simon-Ohm-Prize 2017

(Prize will be awarded at the Annual Meeting in Münster,
March 27 - 31, 2017)

Moritz Kopetzki, Hochschule für Angewandte Wissenschaften, München

„Mikroelektronische Systeme zur Erzeugung und Charakterisierung eines Hochvakuums“

Tuesday, March 21, 13:15 – 13:45, HSZ 03

Gustav-Hertz-Prize 2017

(Prize will be awarded at the Annual Meeting in Münster, March 27-31, 2017)

Prof. Dr. Dennis Meier, NTNU Trondheim, Norway

"Functional Domain Walls in Multiferroic Oxides"

Wednesday, March 22, 13:15 – 13:45, HSZ 01

Robert-Wichard-Pohl-Prize 2017

(Prize will be awarded at the Annual Meeting in Münster, March 27-31, 2017)

Prof. Dr. Metin Tolan, Universität Dortmund

“Die STAR TREK Physik: Warum die Enterprise nur 158 Kilo wiegt und andere galaktische Erkenntnisse”

Sunday, March 19, 18:45 – 19:15, HSZ 01

Marian-Smoluchowski-Emil-Warburg-Physics-Prize 2017

(Prize will be awarded at the Annual Meeting in Münster, March 27-31, 2017)

Prof. Dr. Andrzej Michal Oleś, Jagiellonian University, Poland

“Exotic Spin-Orbital Order in Transition Metal Oxides”

Thursday, March 23, 13:15 – 13:45, HSZ 01

Hertha-Sponer-Prize 2017

(Prize will be awarded at the Annual Meeting in Münster, March 27-31, 2017)

Dr. Isabelle Staude, Universität Jena

“Controlling Light Fields with Mie-Resonant Dielectric Metasurfaces”

Thursday, March 23, 13:15 – 13:45, HSZ 03

Georg-Kerschensteiner-Prize 2017

(Prize will be awarded at the Annual Meeting in Münster, March 27-31, 2017)

Prof. Dr. Joachim Wambsganß, Astronomisches Rechen-Institut Universität Heidelberg

“Uni(versum) für alle – Halbe Heidelberger Sternstunden”

Tuesday, March 21, 11:00 – 11:30, HSZ 01

Prize Talks – Young Academic Awards

SKM Dissertation Prize 2017

The laureate will be chosen during the SKM Dissertation Prize Symposium (SYSD) on Monday, 10:30 in HSZ 04 and publicly announced on Tuesday in the afternoon during the ceremonial session.

**Young Scientist Award for Socio- and Econophysics 2017
(Division SOE)**

Prof. Dr. Francisco C. Santos, GAIPS / INESC-ID, IST Tagus-
park, Porto Salvo, Portugal

*"Climate Change and Global Governance in an Uncertain
World"*

Monday, March 20, 16:00 – 17:00, HSZ 01

**INNOMAG e.V. Dissertationspreis und Diplom-/Master-
preis 2017 (AG Magnetismus)**

The laureate will be chosen after the session MA 11.

Monday, March 20, 15:00 – 17:00, HSZ 101

Early Career Award 2017 (New Journal of Physics)

Prof. Dr. Sebastian Deffner, UMBC Baltimore, USA

*"Fast Quantum Processes without Excitations: Shortcuts to
Adiabaticity"*

Wednesday, March 22, 09:30 – 10:00, HÜL 186

Gerhard Ertl Young Investigator Award 2017 (Division O)

The laureate will be chosen after the session O 92.

Thursday, March 23, 10:30 - 13:00, TRE Ma

Further Prize Talk

Gaede-Prize 2017 (Deutsche Vakuumgesellschaft)

Dr. Guillaume Schull, Institut de Physique et Chimie des
Matériaux de Strasbourg, France

*"STM-induced light emission: from molecular LED to subnano-
metric optical microscopy"*

Tuesday, March 21, 15:30 – 16:00, WIL C307

Annual General Meetings of the DPG Divisions and the Working Group

	Divisions	Date	Time and Allocation
BP	Biological Physics	Wednesday, March 22	18:30 – 19:30 HÜL 386
CPP	Chemical and Polymer Physics	Thursday, March 23	18:30 – 19:15 ZEU 222
DD	Physics Education	Tuesday, March 21	16:00 – 18:00 GER 38
DF	Dielectric Solids	Wednesday, March 22	18:00 – 19:00 GER 37
DS	Thin Films	Wednesday, March 22	19:00 – 20:00 CHE 89
DY	Dynamics and Statistical Physics	Thursday, March 23	19:30 – 20:30 ZEU 160
GP	History of Physics	Monday, March 20	17:15 – 19:15 HSZ 105
HL	Semiconductor Physics	Thursday, March 23	18:00 – 19:00 POT 81
KR	Crystallography	Tuesday, March 21	18:00 – 19:00 HSZ 204
MA	Magnetism	Thursday, March 23	18:00 – 19:00 HSZ 04
MI	Microprobes	Thursday, March 23	15:00 – 16:00 MER 02
MM	Metal and Material Physics	Wednesday, March 22	19:30 – 20:30 BAR 205
O	Surface Science	Thursday, March 23	19:00 – 19:30 HSZ 01
SOE	Physics of Socio- economic Systems	Tuesday, March 21	15:30 – 16:00 GÖR 226
TT	Low Temperature Physics	Thursday, March 23	19:00 – 20:30 HSZ 304
VA	Vacuum Science and Technology	Monday, March 20	16:00 – 16:30 HSZ 301
AKBP	Accelerator Physics	Thursday, March 23	18:00 – 19:00 MOL 213

Job Market

During the conference various companies and organizations will present their working fields and career opportunities to all interested participants. The presentations will last for about 30 minutes plus discussion. For additional information and contacts refer to the information board close to the conference office.

Programme

Tuesday, March 21, HSZ 405

12:00 – 13:00 **Basycon Unternehmensberatung GmbH**

„Hypothesen, Modelle, Experimente – Was Forschung und Unternehmensberatung gemeinsam haben“

13:15 – 14:15 **McKinsey**

„Karrieremöglichkeiten bei McKinsey“

Wednesday, March 22, HSZ 405

13:15 – 14:15 **Forschungszentrum Jülich GmbH**

„Karrierewege in der Physik - Forschungszentrum Jülich“

Thursday, March 23, HSZ 105

12:00 – 13:00 **d-fine GmbH**

„Physiker (m/w) im Bereich Risiko und Finanzen – Vorstellung d-fine“

14:30 – 15:30 **The Boston Consulting Group**

„Als Naturwissenschaftler in die Strategieberatung“

Exhibition of Scientific Instruments and Literature

From Tuesday to Thursday there will be an exhibition of scientific instruments and literature. The exhibition will take place in the Lecture Hall Center (Foyer) and the nearby exhibition tent A. More than 130 companies (see list of exhibitors at the end of this booklet) will present their products. Opening hours are from 9:00 to 17:00. All conference participants are welcome to attend the exhibition. The entrance is free.

DPG-Teachers' Days (Lehretage der DPG)

Wednesday, March 22 and Friday, March 24, 2017

The DPG's traditional "Teachers' Days" are addressed to teachers and student teachers, and will take place within the context of the DPG-Frühjahrstagung (Spring Meeting). Participation of the DPG-"Teachers' Days" is free. All pres-

entations will be given in German. You will find the programme in this booklet (abbreviation: LT, page 513) and on the local server <http://dresden17.dpg-tagungen.de/veranstaltung/lehrrtage.html>

Organisation: Prof. Gesche Pospiech, Didaktik der Physik, Technische Universität Dresden, didaktik@physik.tu-dresden.de

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 by 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://dresden17.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 programme so far.

Acknowledgement

The organisers and the local secretary want to thank

- the Wilhelm and Else Heraeus Foundation, Hanau
- the TU Dresden
- the Leibniz Institute for Solid State and Materials Research Dresden
- the official sponsors of the DPG-Frühjahrstagung (refer to page 27 - 28)

for supporting the conference and all staff, who make the conference possible.

Disclaimer of Liability

Participants are asked to look carefully after their wardrobe, valuables, laptops, and other belongings for which the organisers are not liable.

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Synopsis of the Daily Programme

Sunday, March 19, 2017

Prize Talk

- PV I 18:45 – 19:30 HSZ 01
 Die STAR TREK Physik: Warum die Enterprise nur 158 Kilo wiegt und andere galaktische Erkenntnisse
 •*Metin Tolan (Laureate of the Robert-Wichard-Pohl-Prize 2017)*

Tutorials (TUT)

Sessions

- TUT 1 16:00 – 18:30 HSZ 304
 Tutorial: Ferroics and Skyrmions
- TUT 2 16:00 – 18:30 HSZ 401
 Tutorial: Micromagnetic Simulations
- TUT 3 16:00 – 18:30 HSZ 04
 Tutorial: Patterns in Nature and Materials (DY/BP/ CPP)
- TUT 4 16:00 – 18:15 HSZ 403
 Tutorial: Photocatalysis (HL/O)

Dielectric Solids Division (DF)

Tutorials

- DF 1.1 16:00 – 16:50 HSZ 304
 Introduction to ferroic materials
 •*Claude Ederer*
- DF 1.2 16:50 – 17:40 HSZ 304
 Skyrmions with ferroelectric polarization in multiferroic lacunar spinels
 •*Alois Loidl*
- DF 1.3 17:40 – 18:30 HSZ 304
 Skyrmions in magnetic materials
 •*Jonathan White*

Session

- DF 1 16:00 – 18:30 HSZ 304
 Tutorial: Ferroics and Skyrmions

Dynamics and Statistical Physics Division (DY)**Tutorials**

- DY 1.1 16:00 – 16:50 HSZ 04
 The fascination of pattern formation: Basic principles, applications, future directions
 •*Walter Zimmermann*
- DY 1.2 16:50 – 17:40 HSZ 04
 On growth and forms in nature
 •*Chaouqi Misbah*
- DY 1.3 17:40 – 18:30 HSZ 04
 What can pattern formation theory tell us about ecosystem response to climate change?
 •*Ehud Meron*

Session

- DY 1 16:00 – 18:30 HSZ 04
 Patterns in Nature and Materials (DY/BP/ CPP)

Semiconductor Physics Division (HL)**Tutorials**

- HL 1.1 16:00 – 16:40 HSZ 403
 An Introduction to Rechargeable Battery Technology and Current Research Trends
 •*Bryan McCloskey*
- HL 1.2 16:40 – 17:20 HSZ 403
 Theory and Simulations for All-Solid State Batteries
 •*Christoph Scheurer*
- HL 1.3 17:35 – 18:15 HSZ 403
 Solid State Ionics – Mechanisms and Experimental Methods in Battery Research
 •*Ruediger-A. Eichel*

Session

HL 1 16:00 – 18:15 HSZ 403
 Tutorial: Photocatalysis

Magnetism Division (MA)**Tutorials**

- MA 1.1 16:00 – 16:45 HSZ 401
 An overview of mumax3 with a spotlight on its newest features
Arne Vansteenkiste, •Jonathan Leliaert, Mykola Dvornik, Mathias Helsen, Felipe Garcia-Sanchez, Bartel Van Waeyenberge
- MA 1.2 16:45 – 17:30 HSZ 401
 Micromagnetics simulations with MicroMagnum and OMNeS
•Kai Litzius, Matthias Sitte
- MA 1.3 17:45 – 18:30 HSZ 401
 Computational micromagnetics with JOOMMF
•Hans Fangohr, Marijan Beg

Session

MA 1 16:00 – 18:30 HSZ 401
 Tutorial: Micromagnetic Simulations

Welcome Evening (for registered participants only)

19:00 Mensa Mommsenstraße

Monday, March 20, 2017

Plenary Talks

- Mon
- PV II 08:30 – 09:15 HSZ 01
Operating quantum states in single magnetic molecules
•*Wolfgang Wernsdorfer*
- PV V 14:00 – 14:45 HSZ 01
Electric Field Control of Magnetism
•*Ramamoorthy Ramesh*
- PV VI 14:00 – 14:45 HSZ 02
The Emergence and Evolution of Life Beyond Physics
•*Stuart Kauffman*

Prize Talk

- PV III 13:15 – 13:45 HSZ 01
Random matrix theory and growing interfaces in one dimension
•*Herbert Spohn*
(*Laureate of the Max-Planck-Medaille 2017*)

Lunch Talk

- PV IV 13:15 – 13:45 HSZ 02
From the physics lab to production: Organic photovoltaics as a fascinating field for industry scientists
•*Karsten Walzer*

Symposium SKM Dissertation Prize 2017 (SYSD)

Invited Talks

- SYSD 1.1 10:30 – 10:55 HSZ 04
Coherent Backscattering and Many-Body Spin Echo in Fock Space: Genuine Many-Body Interference vs. Equilibration
•*Thomas Engl*
- SYSD 1.2 10:55 – 11:20 HSZ 04
Magnetization Dynamics of Itinerant and Localized Electrons in Lanthanide Metals
•*Björn Frietsch, Robert Carley, Martin Teichmann, Kristian Döbrich, John Bowlan, Martin Weinelt*

SYSD 1.3 11:20 – 11:45 HSZ 04
Dynamics of Thin Smectic Films: From Viscous Fluid to Quasi Elastic Behaviour
•*Kirsten Harth*

SYSD 1.4 11:45 – 12:10 HSZ 04
Group IV Epitaxy for Advanced Nano- and Optoelectronic Applications
•*Stephan Wirths*

Session

SYSD 1 10:30 – 12:10 HSZ 04
SKM Dissertation Prize 2017

Symposium Novel Functionality and Topology-Driven Phenomena in Ferroics and Correlated Electron Systems (SYCE)

Invited Talks

SYCE 1.1 15:00 – 15:30 HSZ 02
Ferroelectric domain walls: from conductors to insulators and back again
•*Petro Maksymovych*

SYCE 1.2 15:30 – 16:00 HSZ 02
Zoology of skyrmions and the role of magnetic anisotropy in the stability of skyrmions
•*Istvan Kezsmarki, Sandor Bordacs, Jonathan White, Vladimir Tsurkan, Alois Loidl, Peter Milde, Hiroyuki Nakamura, Andrey Leonov*

SYCE 1.3 16:00 – 16:30 HSZ 02
Magnetic imaging of topological phenomena in ferroic materials
•*Weida Wu*

SYCE 1.4 17:00 – 17:30 HSZ 02
Topological skyrmion textures in chiral magnets
•*Markus Garst*

SYCE 1.5 17:30 – 18:00 HSZ 02
Learning through ferroelectric domain dynamics in solidstate synapses
Sören Boyn, Gwendal Lecerf, Stéphane Fusil, Sylvain Saïghi, Agnès Barthélémy, Julie Grollier, Vincent Garcia, •Manuel Bibes

Session

- SYCE 1 15:00 – 18:00 HSZ 02
 Novel Functionality and Topology-Driven Phenomena in Ferroics and Correlated Electron Systems (DF with MA, KR, MI, TT and DS)

Symposium Interfacial Challenges in Solid-State Li Ion Batteries (SYLI)**Invited Talks**

- SYLI 1.1 09:30 – 10:00 HSZ 02
 Interfacial challenges in solid-state Li ion: some perspectives from theory
 •Alan Luntz, Saskia Stegmaier, Johannes Voss, Karsten Reuter
- SYLI 1.2 10:00 – 10:30 HSZ 02
 Will solid electrolytes enable lithium metal anodes in solid state batteries?
 •Jürgen Janek, Dominik Weber, Wolfgang Zeier
- SYLI 1.3 10:30 – 11:00 HSZ 02
 Hybrid Electrolytes for Solid-State Batteries
 •Hans-Dieter Wiemhöfer
- SYLI 1.4 11:15 – 11:45 HSZ 02
 Neutron diffraction on solid-state battery materials
 •Helmut Ehrenberg, Anatoliy Senyshyn, Mykhailo Monchak, Sylvio Indris, Joachim Binder
- SYLI 1.5 11:45 – 12:15 HSZ 02
 Sulfate-based Solid-State Batteries
 •Yuki Katoh

Sessions

- SYLI 1 09:30 – 12:15 HSZ 02
 Symposium Interfacial Challenges in Solid-State Li Ion Batteries
- SYLI 2 15:45 – 16:45 IFW A
 Interface-dominated behaviour
- SYLI 3 17:15 – 18:00 IFW A
 Sulphate- and phosphate-based electrolytes

Biological Physics Division (BP)

Invited Talks

- BP 1.1 09:30 – 10:00 ZEU 250
Conformational Transitions in the Presence of Solvent and Internal Memory Effects
•*Roland Netz, Julian Kappler, Jan Daldrop, Bartosz Kowalik, Florian Brünig*
- BP 2.1 09:30 – 10:00 HÜL 386
Visualization and Manipulation of the Invisible
•*Heinrich Leonhardt*
- BP 3.1 09:30 – 10:00 SCH A251
Cilia-based transport networks
•*Eberhard Bodenschatz*
- BP 4.1 15:00 – 15:30 ZEU 250
Antibiotic-induced gene expression noise and cross-protection at the single-cell level
•*Tobias Bollenbach*
- BP 5.1 15:00 – 15:30 HÜL 386
Metal Induced Energy Transfer
•*Jörg Enderlein*
- BP 6.1 15:00 – 15:30 SCH A251
Quantifying and modelling active motion in biological systems
•*Timo Betz*

Sessions

- BP 1 09:30 – 13:00 ZEU 250
Computational Biophysics (Joint Session BP/DY)
- BP 2 09:30 – 12:45 HÜL 386
Bioimaging and Spectroscopy I
- BP 3 09:30 – 13:00 SCH A251
Mechanics and Dynamics of 3D Tissues – Joint Focus Session (BP/ CPP/DY) organised by Peter Loskill
- BP 4 15:00 – 17:30 ZEU 250
Systems Biology & Gene Expression and Signalling

- BP 5 15:00 – 17:30 HÜL 386
Single Molecule Biophysics
- BP 6 15:00 – 16:45 SCH A251
Cell Mechanics (Joint Session BP/DY)
- BP 7 17:30 – 19:30 P3
Posters – Mechanics and Dynamics of 3D Tissues (Focus Session)
- BP 8 17:30 – 19:30 P3
Posters – Bioimaging and Spectroscopy
- BP 9 17:30 – 19:30 P3
Posters – Cell Mechanics
- BP 10 17:30 – 19:30 P3
Posters – Single Molecule Biophysics

Chemical and Polymer Physics Division (CPP)

Invited Talks

- CPP 1.1 09:30 – 10:00 ZEU 222
Dynamically Reconfigurable Soft Matter in External Fields: Smart Particle Gels, Shape-Changing Clusters and Self-Propelling Microbots
•*Orlin D Velev*
- CPP 3.1 10:15 – 10:45 ZEU 222
The Versatility of Mesoscopic Solar Cells
•*Anders Hagfeldt*
- CPP 4.1 10:15 – 10:45 ZEU 114
Membrane nanotube formation in giant vesicles
•*Rumiana Dimova*
- CPP 5.1 10:15 – 10:45 ZEU 255
A Combined Rheological and Dielectric Analysis of Filler Networking in Elastomer Nanocomposites
•*Manfred Klüppel*
- CPP 8.1 15:00 – 15:30 ZEU 222
Visualizing Charge Carrier Diffusion In Hybrid Halide Perovskite Thin Films

•Achim Hartschuh, Kathrin Handloser, Irene Grill,
Nicolai Hartmann, Nadja Giesbrecht, Meltem
Aygüler, Mathhias Handloser, Thomas Bein,
Pablo Docampo

CPP 8.2 15:30 – 16:00 ZEU 222
Photon recycling in hybrid lead-halide perovskite semiconductors
•Felix Deschler

CPP 8.5 16:45 – 17:15 ZEU 222
Interface engineering: the route towards high efficiency and stable hybrid perovskite solar cells
•Giulia Grancini

CPP 9.1 15:00 – 15:30 ZEU 260
Molecular Electrical Doping of Organic Semiconductors
•Ingo Salzmann

Sessions

CPP 1 09:30 – 10:00 ZEU 222
Keynote Lecture I

CPP 2 09:30 – 13:00 SCH A251
Mechanics and Dynamics of 3D Tissues (joint focus session BP/CPP, organised by BP)

CPP 3 10:15 – 13:00 ZEU 222
Fundamentals of Perovskite Photovoltaics I (joint session CPP/DS/HL)

CPP 4 10:15 – 13:00 ZEU 114
Bioinspired Functional Materials I

CPP 5 10:15 – 13:00 ZEU 255
Polymer Networks and Dynamics I: Elastomers and Magnetic Materials

CPP 6 10:15 – 13:15 ZEU 160
Focus: Soft Particles in Flows I (joint focus session CPP/DY)

CPP 7 11:00 – 13:00 ZEU 260
Organic Electronics and Photovoltaics I: Light-Emitting Devices (joint session CPP/DS/HL, organised by CPP)

- CPP 8 15:00 – 18:15 ZEU 222
 Fundamentals of Perovskite Photovoltaics II
 (joint session CPP/DS/HL)
- CPP 9 15:00 – 18:15 ZEU 260
 Organic Electronics and Photovoltaics II: Dop-
 ing (joint session CPP/DS/HL, organised by
 CPP)
- CPP 10 15:00 – 18:15 ZEU 114
 Bioinspired Functional Materials II
- CPP 11 15:00 – 18:15 ZEU 255
 Modelling and Simulation of Soft Matter
- CPP 12 15:00 – 18:00 ZEU 160
 Focus: Soft Particles in Flows II (joint focus
 session CPP/DY)
- CPP 13 18:30 – 21:00 P1A
 Poster: Fundamentals of Perovskite Photovol-
 taics (joint session CPP, DS, HL)
- CPP 14 18:30 – 21:00 P1C
 Poster: Bioinspired Functional Materials
- CPP 15 18:30 – 21:00 P1C
 Poster: Membranes, Biomaterials, Biopoly-
 mers
- CPP 16 18:30 – 21:00 P1C
 Poster: Modelling and Simulation of Soft Mat-
 ter
- CPP 17 18:30 – 21:00 P1C
 Poster: Polymer Networks and Dynamics
- CPP 18 18:30 – 21:00 P1C
 Poster: Colloids and Complex Fluids

Physics Education Division (DD)

Invited Talk

- DD 1.1 13:00 – 14:00 GER 38
 Erklären im Physikunterricht
 •*Christoph Kulgemeyer*

Sessions

- DD 1 13:00 – 14:00 GER 38
Hauptvortrag
- DD 2 14:00 – 16:00 P3
Postersitzung
- DD 3 16:00 – 17:20 GER 39
Lehr- und Lernforschung 1
- DD 4 16:00 – 17:20 GER 52
Hochschuldidaktik 1
- DD 5 16:00 – 17:20 GER 54
Lehreraus- und Lehrerfortbildung 1
- DD 6 16:00 – 17:20 GER 009
Neue Konzepte 1
- DD 7 17:40 – 19:00 GER 39
Anregungen aus dem Unterricht für den Unterricht 1
- DD 8 17:40 – 19:00 GER 52
Hochschuldidaktik 2
- DD 9 17:40 – 19:00 GER 54
Lehreraus- und Lehrerfortbildung 2
- DD 10 17:40 – 19:00 GER 009
Astronomie

Dielectric Solids Division (DF)**Topical Talks**

- DF 3.1 09:30 – 10:00 WIL B321
Controlling core-shell formation in BNT-ST
•*Till Frömling, Azatuhi Ayrikyan, Matias Acosta, Leopoldo Molina-Luna, Michael Dürrschnabel, Hans-Joachim Kleebe, Herbert Hutter, Kyle Webber*
- DF 3.2 10:00 – 10:30 WIL B321
Determining fundamental properties from diffraction: Electric field induced strain and piezoelectric coefficient
•*Manuel Hinterstein, Markus Hoelzel, Andrew Studer, Michael J. Hoffmann*

- DF 3.7 12:30 – 13:00 WIL B321
 Ferroic glasses: polar nanoregions in relaxor
 PMN vs. magnetic nanoparticles in a discontinuous multilayer
 •*Wolfgang Kleemann*
- Sessions**
- DF 2 09:30 – 12:30 GER 37
 Various Topics I
- DF 3 09:30 – 13:00 WIL B321
 Focus: Ferroics with Mesoscopic Order
- DF 4 14:00 – 14:45 HSZ 01
 PV V – Ramamoorthy Ramesh
- DF 5 15:00 – 18:00 HSZ 02
 SYCE – Novel Functionality and Topology-Driven
 Phenomena in Ferroics and Correlated Electron
 Systems (DF with MA, KR, MI, TT and DS)

Thin Films Division (DS)

Invited Talk, Topical Talks

- DS 2.1 09:30 – 10:00 CHE 89
 Inhomogeneities in chalcopyrites and
 kesterites
 •*Claudia S. Schnorr*
- DS 2.2 10:00 – 10:30 CHE 89
 Impact of growth condition on defect generation
 in Cu(In,Ga)Se₂
 •*Takeaki Sakurai, Muhammad Islam, Akira Uedono, Shogo Ishizuka, Hajime Shibata, Shigeru Niki, Katsuhiko Akimoto*
- DS 2.4 11:00 – 11:30 CHE 89
 Inhomogeneities in chalcopyrites for solar cells
 •*Daniel Abou-Ras*
- DS 2.5 11:30 – 12:00 CHE 89
 Understanding the defects in Cu(In,Ga)Se₂
 solar cell: a correlative microscopy approach
 •*Oana Cojocaru-Mirédin, Torsten Schwarz, Roland Mainz, Daniel Abou-Ras*

- DS 12.1 15:00 – 15:30 CHE 89
Defects in Chalcopyrites
•*Susanne Siebentritt*
- DS 12.2 15:30 – 16:00 CHE 89
Growth of InGaN film and monolayer by molecular beam epitaxy
•*Xinqiang Wang, Zhaoyin Chen, Xiantong Zheng, Xin Rong, Bowen Sheng, Bo Shen, Tobias Schulz, Martin Albrecht, Frank Bertram, Jürgen Christen*

Sessions

- DS 1 09:30 – 13:00 HSZ 204
Transport: Topological Insulators (jointly with DS, MA, HL, O)
- DS 2 09:30 – 12:15 CHE 89
Focused Session: Inhomogeneous Materials for Solar Cells I
- DS 3 09:30 – 13:00 CHE 91
Thin Film Characterisation: Structure Analysis and Composition I
- DS 4 09:30 – 12:45 POT 81
Focus Session: Two-dimensional materials I (jointly with HL/TT)
- DS 5 10:15 – 13:00 ZEU 222
Fundamentals of Perovskite Photovoltaics I (jointly with CPP)
- DS 6 10:30 – 13:00 REC/PHY C213
2D Materials Beyond Graphene I (jointly with O)
- DS 7 12:30 – 13:15 CHE 89
Atomic Layer Deposition
- DS 8 14:45 – 18:15 POT 81
Focus Session: Two-dimensional materials II (jointly with HL/TT)
- DS 9 15:00 – 18:15 HSZ 204
Transport: Graphene and Carbon Nanostructures (jointly with HL/MA/TT)
- DS 10 15:00 – 18:00 HSZ 304
Transport: Topological Phases (jointly with DS/MA/TT)

- DS 11 15:00 – 18:15 ZEU 222
 Fundamentals of Perovskite Photovoltaics II
 (jointly with CPP/DS/HL)
- DS 12 15:00 – 16:15 CHE 89
 Focused Session: Inhomogeneous Materials
 for Solar Cells II
- DS 13 15:00 – 16:45 CHE 91
 Phase Change/Resistive Switching
- DS 14 16:00 – 18:30 REC/PHY C213
 2D Materials Beyond Graphene II (jointly with
 CPP)
- DS 15 16:30 – 17:15 CHE 89
 Focussed Session: Frontiers in Exploring and
 Applying Plasmonic Systems I (Joint Session
 of CPP, DS, HL, MM, and O, organised by DS)
- DS 16 17:00 – 18:30 CHE 91
 Layer Properties: Electrical, Optical, and Me-
 chanical Properties I
- DS 17 17:45 – 19:00 CHE 89
 Thermoelectric Materials

Dynamics and Statistical Physics Division (DY)

Invited Talks

- DY 2.1 09:30 – 10:00 HÜL 186
 Stochastic thermodynamics and the thermo-
 dynamic uncertainty relation
•Udo Seifert
- DY 7.1 10:15 – 10:45 ZEU 160
 Immersed Boundary Methods for Rigid and
 Deformable Particles in Viscoelastic flows
•Eric Shaqfeh
- DY 7.5 11:45 – 12:15 ZEU 160
 Effect of bending on the dynamics of a spheri-
 cal capsule in shear flow
•Anne-Virginie Salsac

- DY 9.1 15:00 – 15:30 ZEU 160
Particle alignment in microchannels and microjets
•Stephan Foerster, Mathias Schlenk, Susanne Seibt, Martin Trebbin, Josef Breu, Stephan Roth
- Sessions**
- DY 2 09:30 – 12:30 HÜL 186
Stochastic thermodynamics and information processing
- DY 3 09:30 – 13:00 ZEU 250
Computational Biophysics (joint BP/DY)
- DY 4 09:30 – 13:00 SCH A251
Mechanics and Dynamics of 3D Tissues – Joint Focus Session (BP/ CPP/DY) organised by Peter Loskill
- DY 5 09:30 – 10:00 ZEU 222
Keynote Lecture I
- DY 6 10:00 – 12:15 ZEU 118
Many-Body Quantum Systems (joint session DY/TT)
- DY 7 10:15 – 13:15 ZEU 160
Soft Particles in Flows I (Focus session, joint DY/ CPP)
- DY 8 15:00 – 19:15 ZEU 118
Statistical Physics far from Thermal Equilibrium
- DY 9 15:00 – 18:00 ZEU 160
Soft Particles in Flows II (Focus session, joint DY, CPP)
- DY 10 15:00 – 16:45 SCH A251
Cell Mechanics (Joint Session BP/DY)
- DY 11 15:30 – 18:00 HÜL 186
Critical phenomena
- DY 12 15:30 – 17:15 ZEU 147
Delay and Feedback Dynamics
- DY 13 17:30 – 18:30 ZEU 147
Complex Systems

History of Physics Division (GP)

Invited Talk

- GP 1.1 15:00 – 15:30 HSZ 105
 Was will eine Globalgeschichte der Physik?
 Begrüßung und Einführung
 •*Christian Forstner*

Sessions

- GP 1 15:00 – 16:00 HSZ 105
 Einführung
- GP 2 16:00 – 17:00 HSZ 105
 Freie Sektion I
- GP 3 17:15 – 19:15 HSZ 105
 Mitgliederversammlung des Fachverbandes
 Geschichte der Physik

Semiconductor Physics Division (HL)

Invited Talks

- HL 5.1 09:30 – 10:00 POT 81
 Van der Waals heterostructures: tunnelling
 and interaction with light
 •*Artem Mishchenko*
- HL 5.6 11:30 – 12:00 POT 81
 Excitons in ultra-thin perovskites & van der
 Waals crystals
 •*Alexey Chernikov*
- HL 6.1 09:30 – 10:00 POT 51
 Optical Coherent Multidimensional Spectros-
 copy of Semiconductor Nanostructures
 •*Steven Cundiff*
- HL 7.11 12:30 – 13:00 POT 151
 Carbon nanotubes as excitonic insulators
 •*Massimo Rontani*
- HL 15.1 14:45 – 15:15 POT 81
 2D / 3D Heterostructures for Optoelectronics
 •*Max Lemme*

- HL 15.6 16:45 – 17:15 POT 81
Excitons in colloidal 2D-CdSe nanocrystals
•Ulrike Woggon
- HL 16.1 14:45 – 15:15 POT 51
The role of phonons for the optical control of
semiconductor quantum dots
•Doris Reiter

Sessions

- HL 2 09:30 – 12:15 HSZ 02
SYLI: Symposium Interfacial Challenges in
Solid-State Li Ion Batteries – Invited talks
- HL 3 09:30 – 13:00 HSZ 204
Transport: Topological Insulators (jointly with
DS, MA, HL, O)
- HL 4 09:30 – 12:15 CHE 89
Focused Session: Inhomogeneous Materials
for Solar Cells I
- HL 5 09:30 – 12:45 POT 81
Focus Session: Two-dimensional materials I
(joined session with TT)
- HL 6 09:30 – 12:45 POT 51
Ultrafast Phenomena I
- HL 7 09:30 – 13:00 POT 151
Spintronics I (joined session with TT)
- HL 8 09:30 – 11:45 POT 251
Photovoltaics
- HL 9 09:30 – 12:30 POT 112
Quantum Dots: Preparation and Characterisation
- HL 10 09:30 – 12:30 POT 06
Semiconductor Lasers I
- HL 11 10:30 – 13:00 TRE Ma
Plasmonics and Nanooptics I: Light-Matter
Interactions
- HL 12 10:30 – 13:00 GER 38
Electronic-Structure Theory: New Concepts
and Developments in Density Functional
Theory and Beyond – I

- HL 13 11:00 – 13:00 ZEU 260
Organic Electronics and Photovoltaics I: Light-Emitting Devices
- HL 14 14:00 – 18:00 P2-OG3
Poster: Two-Dimensional Materials and Topological Insulators
- HL 15 14:45 – 18:15 POT 81
Focus Session: Two-dimensional materials II (joined session with TT)
- HL 16 14:45 – 17:30 POT 51
Ultrafast Phenomena II
- HL 17 14:45 – 17:00 POT 151
Spintronics II (joined session with TT)
- HL 18 14:45 – 17:30 POT 06
Semiconductor Lasers II
- HL 19 15:00 – 18:15 HSZ 204
Transport: Graphene and Carbon Nanostructures (jointly with DY, DS, HL, MA, O)
- HL 20 15:00 – 18:15 ZEU 222
Fundamentals of Perovskite Photovoltaics II (joint session CPP/DS/HL)
- HL 21 15:00 – 18:15 ZEU 222
Fundamentals of Perovskite Photovoltaics II (joint session CPP/DS/HL)
- HL 22 15:00 – 18:15 ZEU 260
Organic Electronics and Photovoltaics II: Doping
- HL 23 15:00 – 16:45 TRE Ma
Plasmonics and Nanooptics II: Light-Matter Interaction
- HL 24 15:00 – 18:15 GER 38
Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – II
- HL 25 15:00 – 19:00 P2-OG2
Poster: Nitrides

- HL 26 16:30 – 17:15 CHE 89
 Focussed Session: Frontiers in Exploring and Applying Plasmonic Systems II (Joint Session of CPP, DS, HL, MM, and O, organised by DS)
- HL 27 17:00 – 18:30 TRE Ma
 Plasmonics and Nanooptics III: Light-Matter Interaction
- HL 28 18:30 – 21:00 P1A
 Poster: Fundamentals of Perovskite Photovoltaics (joint session CPP, DS, HL)

Crystallography Division (KR)

Session

- KR 1 09:30 – 12:30 GER 37
 Various Topics I (with DF)

Magnetism Division (MA)

Invited Talks

- MA 2.1 09:30 – 10:00 HSZ 01
 Electrical Control of Quantum Coherent Phenomena in Insulating Antiferromagnets
•Arne Braatas
- MA 2.3 10:15 – 10:45 HSZ 01
 Electronic and magnonic spin transport in antiferromagnets
Lamprini Frangou, Guillaume Forestier, Stephane Auffret, Serge Gambarelli, •Vincent Baltz
- MA 2.4 11:00 – 11:30 HSZ 01
 Staggering antiferromagnetic domain wall velocity in a staggered spin-orbit field
•Olena Gomonay
- MA 2.6 11:45 – 12:15 HSZ 01
 Current induced switching of an antiferromagnet
Peter Wadley, Michal J. Grzybowski, Carl Andrews, Sonka Reimers, Richard P. Campion, Vit Novak, Francesco Maccherozzi, Sarnjeet S. Dhesi, •Kevin W. Edmonds, Bryan L. Gallagher, Jakub Zelezny, Tomas Jungwirth

- MA 10.1 15:00 – 15:30 HSZ 04
 Magnetoelastic coupling and lattice dynamics in magnetocaloric materials
•Markus Ernst Gruner, Werner Keune, Michael Wolloch, Peter Mohn, Oliver Gutfleisch, Heiko Wende, Rossitza Pentcheva
- Sessions**
- MA 2 09:30 – 12:15 HSZ 01
 Focus Session: Antiferromagnetic Spintronics
- MA 3 09:30 – 12:45 HSZ 101
 Magnetic Textures: Statics and experimental imaging
- MA 4 09:30 – 13:00 HSZ 204
 Transport: Topological Insulators (jointly with DS, MA, HL, O)
- MA 5 09:30 – 12:15 HSZ 401
 Magnetization/Demagnetization Dynamics
- MA 6 09:30 – 11:45 HSZ 403
 Magnetic Instrumentation and Characterisation
- MA 7 10:00 – 13:00 MER 02
 Analytical Electron Microscopy: SEM and TEM-based Material Analysis
- MA 8 10:30 – 12:10 HSZ 04
 SKM Dissertation Prize 2017
- MA 9 15:00 – 18:00 HSZ 02
 Novel Functionality and Topology-Driven Phenomena in Ferroics and Correlated Electron Systems (DF with MA, KR, MI, TT and DS)
- MA 10 15:00 – 18:30 HSZ 04
 Caloric Effects in Ferromagnetic Materials
- MA 11 15:00 – 17:00 HSZ 101
 INNOMAG e.V. Dissertationspreis und Diplom-/Masterpreis 2017
- MA 12 15:00 – 18:15 HSZ 204
 Transport: Graphene and Carbon Nanostructures (jointly with DY, DS, HL, MA, O)

- MA 13 15:00 – 18:00 HSZ 304
 Transport: Topological Phases (jointly with DS, MA, HL, O)
- MA 14 15:00 – 17:30 HSZ 401
 Magnetization / Demagnetization Dynamics II
- MA 15 15:00 – 18:30 HSZ 403
 Magnetic Heuslers, Half-metals and Oxides (jointly with TT)
- MA 16 17:30 – 18:45 HSZ 401
 Spin Dynamics: Magnetic relaxation and Gilbert Damping

Microprobes Division (MI)

Invited Talks

- MI 1.1 10:00 – 10:30 MER 02
 Point-group sensitive interpretation of EBSD patterns, and the impact of channeling-in and channeling-out of electrons
•Gert Nolze, Aimo Winkelmann
- MI 1.8 12:15 – 12:45 MER 02
 Microstructural Characterisation of non-metallic precipitates in silicon crystallization processes for photovoltaic applications
•Susanne Richter, Martina Werner, Sina Swatek, Christian Hagendorf

Sessions

- MI 1 10:00 – 13:00 MER 02
 Analytical Electron Microscopy: SEM and TEM-based Material Analysis
- MI 2 15:00 – 18:00 HSZ 02
 Symposium Novel Functionality and Topology-Driven Phenomena in Ferroics and Correlated Electron Systems (DF with MA, KR, MI, TT and DS)

Metal and Material Physics Division (MM)

Invited Talks, Topical Talks

- MM 1.1 09:30 – 10:00 BAR 205
Liquid-liquid transition in metallic melts
•*Ralf Busch*
- MM 3.1 10:15 – 10:45 BAR 205
Tensile strength in ab initio simulations: stability of models with planar defects
•*Petr Šešták, Miroslav Černý, Monika Všíanská, Mojmír Šob*
- MM 4.1 10:15 – 10:45 IFW A
Structural transition upon vitrification in viscous metallic liquids
•*Andreas Meyer*
- MM 12.1 15:00 – 15:30 BAR 205
From weakened chemical bonds to materials breakdown: An ab initio perspective
•*Mira Todorova*
- MM 18.1 17:30 – 18:00 BAR 205
Experimental investigations on the relationship between crystallographic character of grain boundaries and their functional and mechanical properties in various engineering materials.
•*Stefan Zaeferrer, Dayong An, Zhangqi Wang, Fady Archie, Guillaume Stechmann*

Sessions

- MM 1 09:30 – 10:00 BAR 205
Invited talk Busch
- MM 2 09:30 – 12:15 HSZ 02
SYLI: Symposium Interfacial Challenges in Solid-State Li Ion Batteries – Invited talks
- MM 3 10:15 – 11:30 BAR 205
Topical Session: Interface-Controlled Microstructures: Mechanical Properties and Mechano-Chemical Coupling – Segregation and Embrittlement I

- MM 4 10:15 – 11:30 IFW A
Topical session: Dynamics, relaxation and deformation in deeply supercooled metallic liquids and glasses I – Structural Transitions
- MM 5 10:15 – 11:30 IFW B
Computational Materials Modelling: Materials at finite temperatures
- MM 6 10:15 – 11:15 IFW D
Structural Materials
- MM 7 10:30 – 13:00 GER 38
Electronic Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – I
- MM 8 11:45 – 13:15 BAR 205
Topical session: Interface-Controlled Microstructures: Mechanical Properties and Mechano-Chemical Coupling – Segregation and Embrittlement II
- MM 9 11:45 – 13:15 IFW A
Topical session: Dynamics, relaxation and deformation in deeply supercooled metallic liquids and glasses II – Undercooled Melts
- MM 10 11:45 – 13:15 IFW B
Computational Materials Modelling – Accelerated Approaches
- MM 11 11:45 – 13:30 IFW D
Biomaterials
- MM 12 15:00 – 15:30 BAR 205
Invited talk Todorova
- MM 13 15:00 – 18:15 GER 38
Electronic Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – II
- MM 14 15:45 – 17:15 BAR 205
Topical session: Interface-Controlled Microstructures: Mechanical Properties and Mechano-Chemical Coupling – Electro- and mechano-chemical coupling

- MM 15 15:45 – 16:45 IFW A
Symposium SYLI: Interfacial Challenges in Solid-State Li Ion Batteries – Interface-dominated behaviour
- MM 16 15:45 – 16:45 IFW B
Computational Materials Modelling – Novel Materials
- MM 17 15:45 – 17:00 IFW D
Functional Materials I
- MM 18 17:30 – 18:45 BAR 205
Topical session: Interface-Controlled Microstructures: Mechanical Properties and Mechano-Chemical Coupling – Experimental Characterisation
- MM 19 17:15 – 18:00 IFW A
SYLI: Symposium Interfacial Challenges in Solid-State Li Ion Batteries – sulphate- and phosphate-based electrolytes
- MM 20 17:00 – 18:15 IFW B
Computational Materials Modelling – Defect structure and formation
- MM 21 17:15 – 18:45 IFW D
Functional Materials II
- MM 22 19:00 – 20:00 P4
Poster session I

Surface Science Division (O)

Invited Talks

- O 1.1 09:30 – 10:15 TRE Phy
Electron Spin Resonance of single atoms on surfaces
•Andreas Heinrich
- O 10.1 15:00 – 15:45 TRE Phy
Overview of the development of ultrafast scanning tunneling microscopy
Dominik Peller, Tyler L. Cocker, Ping Yu, Rupert Huber, •Jascha Repp

- O 13.1 15:00 – 15:30 GER 38
Towards efficient orbital-dependent density functionals for weak and strong correlation
•Igor Ying Zhang, Patrick Rinke, John P. Perdew, Matthias Scheffler
- Sessions**
- O 1 09:30 – 10:15 TRE Phy
Overview Talk: Andreas Heinrich
- O 2 09:30 – 12:15 HSZ 02
Symposium Interfacial Challenges in Solid-State Li Ion Batteries
- O 3 10:30 – 13:00 TRE Phy
Scanning Probe Techniques: Method Development I
- O 4 10:30 – 13:00 TRE Ma
Plasmonics and Nanooptics I: Light-Matter Interactions
- O 5 10:30 – 13:00 WIL A317
Organic-Inorganic Hybrid Systems and Organic Films I
- O 6 10:30 – 13:00 GER 38
Electronic Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – I
- O 7 10:30 – 12:45 WIL C107
Electronic Structure of Surfaces: Magnetism and Spin Phenomena
- O 8 10:30 – 13:00 REC/PHY C213
2D Materials Beyond Graphene I
- O 9 10:30 – 13:00 WIL C307
Solid-Liquid Interfaces: Structure, Spectroscopy I
- O 10 15:00 – 15:45 TRE Phy
Overview Talk: Jascha Repp
- O 11 15:00 – 16:45 TRE Ma
Plasmonics and Nanooptics II: Light-Matter Interaction

- O 12 15:00 – 16:45 WIL A317
Organic-Inorganic Hybrid Systems and Organic Films II
- O 13 15:00 – 18:15 GER 38
Electronic Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – II
- O 14 15:00 – 17:30 WIL C107
Electronic Structure of Surfaces: Magnetism and Spin Phenomena II
- O 15 15:00 – 16:15 WIL B321
Solid-Liquid Interfaces: Structure, Spectroscopy II
- O 16 15:45 – 16:45 IFW A
SYLI: Interfacial Challenges in Solid-State Li Ion Batteries – Interface-dominated behaviour
- O 17 15:45 – 18:00 TRE Phy
Scanning Probe Techniques: Method Development II
- O 18 16:00 – 17:30 WIL C307
Semiconductor Substrates: Structure, Epitaxy and Growth
- O 19 16:00 – 18:30 REC/PHY C213
2D Materials Beyond Graphene II
- O 20 16:30 – 18:15 WIL B321
Solid-Liquid Interfaces: Reactions and Electrochemistry – Experiment I
- O 21 17:00 – 18:30 TRE Ma
Plasmonics and Nanooptics III: Light-Matter Interaction
- O 22 17:00 – 18:30 WIL A317
Organic-Inorganic Hybrid Systems and Organic Films III
- O 23 17:15 – 18:00 IFW A
SYLI: Symposium Interfacial Challenges in Solid-State Li Ion Batteries – sulphate- and phosphate-based electrolytes
- O 24 17:30 – 18:30 WIL C307
Semiconductor Substrates: Adsorption

Physics of Socio-economic Systems Division (SOE)

Prize Talk, Invited Talk, Topical Talk

- SOE 1.1 09:30 – 10:00 GÖR 226
Quantifying the evolution of individual scientific impact
•*Roberta Sinatra*
- SOE 5.1 15:00 – 15:45 HSZ 01
Complexity in Economics and Finance
•*Cees Diks*
- SOE 5.2 16:00 – 16:45 HSZ 01
Climate Change and Global Governance in an Uncertain World
•*Francisco C. Santos (Young Scientist Award for Socio- and Econophysics 2017), Vítor V. Vasconcelos, Simon A. Levin, Jorge M. Pacheco*

Sessions

- SOE 1 09:30 – 10:00 GÖR 226
Scientific Impact and Models for Growth of Science (Topical Talk Roberta Sinatra)
- SOE 2 10:00 – 11:15 GÖR 226
Social Systems I
- SOE 3 11:15 – 12:15 GÖR 226
Financial Models and Risk Management I
- SOE 4 14:00 – 14:45 HSZ 02
Plenary Talk Stuart Kauffman
- SOE 5 15:00 – 17:00 HSZ 01
YSA Award Session: Young Scientist Award for Socio- and Econophysics 2017
- SOE 6 17:00 – 20:00 P2-OG4
Poster

Low Temperature Physics Division (TT)

Invited Talks

- TT 1.1 09:30 – 10:00 HSZ 03
Herbertsmithite and the Search for the Quantum Spin Liquid
•*Michael Norman*

- TT 1.2 10:00 – 10:30 HSZ 03
Anisotropic Magnetism and Spin Gap in α - RuCl_3
•*Bernd Büchner*
- TT 1.3 10:30 – 11:00 HSZ 03
The Fate of Spinons in Quantum Critical Mott Systems
•*Vladimir Dobrosavljevic*
- TT 1.4 11:15 – 11:45 HSZ 03
Breakdown of Hooke's Law of Elasticity at the Mott Critical Endpoint in an Organic Conductor
•*Elena Gati, M. Garst, R.S. Manna, U. Tutsch, B. Wolf, L. Bartosch, T. Sasaki, H. Schubert, J.A. Schlueter, M. Lang*
- TT 1.5 11:45 – 12:15 HSZ 03
The Widom Line in Pristine Mott Insulators: Dynamical Properties of Quantum Spin Liquids
•*Andrej Pustogow, Simone Fratini, Tsung-Han Lee, Vladimir Dobrosavljevic, Martin Dressel*
- TT 1.6 12:15 – 12:45 HSZ 03
Toward Understanding the Complex Magnetism in Kitaev Spin-Liquid Candidates
•*Stephen Winter, Kira Riedl, Roser Valenti*
- TT 2.6 11:00 – 11:30 HSZ 103
The Echo of Superconductivity: Higgs Oscillations of Superconductors in Non-Equilibrium
•*Dirk Manske*
- TT 12.9 17:15 – 17:45 HSZ 03
U(1) Quantum Spin Liquid Ground State in the Triangular Antiferromagnet YbMgGaO_4
•*Yuesheng Li*
- TT 14.6 16:30 – 17:00 HSZ 201
Multi-Terminal Josephson Junctions as Topological Matter
•*Julia S. Meyer*

Sessions

- TT 1 09:30 – 12:45 HSZ 03
Focus Session: Frustration in Mott Insulators and Mott Criticality

- TT 2 09:30 – 12:45 HSZ 103
Superconductivity: Properties and Electronic Structure 1
- TT 3 09:30 – 13:15 HSZ 201
Transport: Quantum Dots, Quantum Wires, Point Contacts
- TT 4 09:30 – 13:00 HSZ 204
Transport: Topological Insulators (jointly with DS, MA, HL, O)
- TT 5 09:30 – 13:00 HSZ 304
Correlated Electrons: (General) Theory 1
- TT 6 09:30 – 12:45 POT 81
Focus Session: Two-Dimensional Materials I (joint session DS, HL, TT, organised by HL)
- TT 7 09:30 – 13:00 POT 151
Spintronics I (joint session DS, HL, MA, TT, organised by HL)
- TT 8 10:30 – 13:00 GER 38
Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – I (joint session DS, HL, MA, MM, O, TT, organised by O)
- TT 9 14:45 – 18:15 POT 81
Focus Session: Two-Dimensional Materials II (joint session DS, HL, TT, organised by HL)
- TT 10 14:45 – 17:00 POT 151
Spintronics II (joint session DS, HL, MA, TT, organised by HL)
- TT 11 15:00 – 18:00 HSZ 02
SYCE: Novel Functionality and Topology-Driven Phenomena in Ferroics and Correlated Electron Systems (joint symposium DF, DS, KR, MA, MI, TT, organised by DS)
- TT 12 15:00 – 18:15 HSZ 03
Correlated Electrons: Frustrated Magnets – General 1
- TT 13 15:00 – 18:15 HSZ 103
Superconductivity: Fe-based Superconductors – 122

- TT 14 15:00 – 18:15 HSZ 201
Superconductivity: Tunnelling, Josephson Junctions, SQUIDs 1
- TT 15 15:00 – 18:15 HSZ 204
Transport: Graphene and Carbon Nanostructures (jointly with DY, DS, HL, MA, O)
- TT 16 15:00 – 18:00 HSZ 304
Transport: Topological Phases (jointly with DS, MA, HL, O)
- TT 17 15:00 – 18:30 HSZ 403
Magnetic Heuslers, Half-Metals and Oxides (joint session MA, TT, organised by MA)
- TT 18 15:00 – 18:15 GER 38
Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – II (joint session DS, HL, MA, MM, O, TT, organised by O)
- TT 19 15:00 – 19:00 P2-EG
Poster Session: Correlated Electrons 1
- TT 20 15:00 – 19:00 P2-OG1
Poster Session: Correlated Electrons 2

Vacuum Science and Technology Division (VA)

Invited Talks

- VA 1.1 09:00 – 09:45 HSZ 301
Assessment of a Pressure Gauge Filament for Neutral Gas Density Measurement using Alternating Current as Source Power
•Nikola Jaksic, Hans Meister, Andrea Scarabosio
- VA 2.1 11:00 – 11:45 HSZ 301
Commissioning of the complete KATRIN Vacuum System
•Joachim Wolf, KATRIN Collaboration
- VA 3.1 13:30 – 14:15 HSZ 301
High speed massive matter injection in ultra-high vacuum environment for magnetic fusion devices
•Mathias Dibon, Peter Lang, Gabriella Pautasso, Albrecht Herrmann, Vitus Mertens, Rudolf Neu, Bernhard Ploeckl, Volker Rohde

Sessions

- VA 1 09:00 – 10:45 HSZ 301
Vacuum Generation and Measurement
- VA 2 11:00 – 12:15 HSZ 301
Large Vacuum Systems
- VA 3 13:30 – 14:45 HSZ 301
Vacuum Physics
- VA 4 14:45 – 16:00 P2-OG3
Poster Session
- 16:00 – 16:30 HSZ 301
Annual General Meeting of the Vacuum Science and Technology Division

Working Group on Accelerator physics (AKBP)**Session**

- AKBP 1 15:00 – 18:00 MOL 213
New Accelerator Concepts I
- 19:00 Foyer HSZ
Free Beer (for registered participants only)

Evening Talk (Entrance free)

- PV VII 20:00 – 21:00 HSZ 01
Magnetresonanz-Tomografie in Echtzeit
•*Jens Frahm*
-

Tuesday, March 21, 2017

Plenary Talk

- PV VIII 08:30 – 09:15 HSZ 01
Surface and tip-Enhanced Raman spectroscopy: From single molecule spectroscopy to angstrom-scale spatial resolution and femto-second time resolution
•Richard Van Duyne

Prize Talks

- PV IX 13:15 – 13:45 HSZ 01
Topological Insulators: a New State of Matter
•Laurens W. Molenkamp
(Laureate of the Stern-Gerlach-Medaille 2017)
- PV XI 13:15 – 13:45 HSZ 03
Mikroelektronische Systeme zur Erzeugung und Charakterisierung eines Hochvakuums
•Moritz Kopetzki
(Laureate of the Georg-Simon-Ohm-Prize 2017)

Lunch Talk

- PV X 13:15 – 13:45 HSZ 02
Als Physiker in einem Maschinenbau-Unternehmen
•Monika Mattern-Klosson

Special Plenary Session with Prize Ceremony

- PV XII 17:30 – 18:15 HSZ 01
Molecular semiconductors for LEDs and solar cells: designing around the Coulomb interaction
•Richard Friend (Ceremonial Lecturer)

Symposium Bioinspired Functional Materials: From Nature's Nanoarchitectures to Nanofabricated Designs (SYBM)

Invited Talks

- SYBM 1.1 09:30 – 10:00 HSZ 02
New twists in biological photonics: circular polarisation and beyond.
•Pete Vukusic, Luke McDonald, Ewan Finlayson

- SYBM 1.2 10:00 – 10:30 HSZ 02
Bio-inspired materials and structures for technology and architecture
•*Thomas Speck*
- SYBM 1.3 10:30 – 11:00 HSZ 02
Cellulose bio-inspired hierarchical structures
•*Silvia Vignolini*
- SYBM 1.4 11:15 – 11:45 HSZ 02
Strong Flexible Bioenabled Nanocomposites for Sustainable Sensing
•*Vladimir Tsukuruk*
- SYBM 1.5 11:45 – 12:15 HSZ 02
3D laser nano-printing of rationally designed materials
•*Martin Wegener*

Session

- SYBM 1 09:30 – 12:15 HSZ 02
Bioinspired Functional Materials: From Nature's Nanoarchitectures to Nanofabricated Designs

Symposium Interfacial Challenges in Solid-State Li Ion Batteries (SYLI)

Sessions

- SYLI 4 10:15 – 11:30 IFW A
NMR studies
- SYLI 5 11:45 – 12:45 IFW A
Structure – property relationships I

Biological Physics Division (BP)

Invited Talks

- BP 13.1 09:30 – 10:00 HÜL 386
X-ray imaging of Cells and Tissues
•*Tim Salditt*

BP 14.1 09:30 – 10:00 SCH A251
Laminar mixing in tubular networks of plasmodial slime moulds
•*Marcus Hauser*

BP 16.1 11:30 – 12:00 HÜL 386
Control on the nanoscale with DNA origami
•*Tim Liedl*

Sessions

BP 11 09:30 – 12:15 HSZ 02
Bioinspired Functional Materials: From Nature's Nanoarchitectures to Nanofabricated Designs (Joint Symposium CPP/BP/MM/DF/DY/MI)

BP 12 09:30 – 13:00 HÜL 186
Microswimmers I (Joint Session DY/BP)

BP 13 09:30 – 11:00 HÜL 386
Bioimaging and Spectroscopy II

BP 14 09:30 – 13:00 SCH A251
Physics of *Physarum polycephalum* and Other Slime Molds – Joint Focus Session (BP/DY) organised by Hans-Günther Döbereiner

BP 15 11:30 – 13:00 ZEU 255
Colloids and Complex Fluids I (Joint Session CPP/BP/DY)

BP 16 11:30 – 12:30 HÜL 386
Biotechnology and Bioengineering

BP 17 14:30 – 15:45 HÜL 186
Microswimmers II (Joint Session DY/BP)

BP 18 14:00 – 16:00 ZEU 118
Statistical Physics in Biological Systems II (Joint Session DY/BP)

BP 19 14:00 – 16:00 P1A
Posters – Computational Biophysics

BP 20 14:00 – 16:00 P1A
Posters – Physics of the Genesis of Life (Focus Session)

- BP 21 14:00 – 16:00 P1A
Posters – Membranes and Vesicles
- BP 22 14:00 – 16:00 P1A
Posters – Biomaterials and Biopolymers
- BP 23 14:00 – 16:00 P1A
Posters – Statistical Physics of Biological Systems
- BP 24 14:00 – 16:00 P1A
Posters – Protein Structure and Dynamics
- BP 25 14:00 – 16:00 P2-EG
Posters – Cytoskeletal Filaments
- BP 26 14:00 – 16:00 P2-EG
Posters – Cell Adhesion
- BP 27 14:00 – 16:00 P2-EG
Posters – Microswimmers
- BP 28 14:00 – 16:00 P2-EG
Posters – Cell Migration Contraction
- BP 29 14:00 – 16:00 P2-EG
Posters – Multi-Cellular Systems
- BP 30 14:00 – 16:00 P2-OG1
Posters – Neurosciences
- BP 31 14:00 – 16:00 P2-OG1
Posters – Biotechnology and Bioengineering
- BP 32 14:00 – 16:00 P2-OG1
Posters – DNA/RNA
- BP 33 14:00 – 16:00 P2-OG1
Posters – Systems Biology & Gene Expression and Signalling
- BP 34 14:00 – 16:00 P2-OG1
Posters – Physics of Physarum polycephalum and Other Slime Molds (Focus Session)
- BP 35 14:00 – 16:00 P2-OG1
Posters – Physics of Parasites (Focus Session)

Chemical and Polymer Physics Division (CPP)

Invited Talks

- CPP 20.1 09:30 – 10:00 ZEU 222
Investigation of hybrid organic/inorganic perovskite systems and interfaces by photoelectron spectroscopy
•*Selina Olthof*
- CPP 22.7 11:15 – 11:45 ZEU 250
Structure/dynamics interplay in interfacial layers: how adsorption influences thermal glass transition and segmental relaxation
•*Simone Napolitano*
- CPP 22.10 12:15 – 12:45 ZEU 250
Molecular-level framework for the dynamic mechanical response and yielding of polymer glasses
•*Alessio Zaccone, Vladimir Palyulin, Chris Ness, Robert Elder, Rico Milkus, Timothy Sirk*
- CPP 25.1 14:00 – 14:30 ZEU 222
Ultrafast transient absorption spectroscopy of organic-inorganic hybrid perovskites on mesoporous titanium dioxide in contact with hole transport materials
•*Thomas Lenzer*

Sessions

- CPP 19 09:30 – 12:15 HSZ 02
Symposium on Bioinspired Functional Materials: From Nature's Nanoarchitectures to Nanofabricated Designs
- CPP 20 09:30 – 12:30 ZEU 222
Fundamentals of Perovskite Photovoltaics III (joint session CPP/DS/HL)
- CPP 21 09:30 – 12:45 ZEU 260
Organic Electronics and Photovoltaics III: Mobile and Trapped Charges (joint session CPP/DS/HL, organised by CPP)
- CPP 22 09:30 – 12:45 ZEU 250
Polymer Networks and Dynamics II: Structure and Dynamics

- CPP 23 09:30 – 13:15 POT 251
Organic Semiconductors (joint session CPP/DS/HL, organised by HL)
- CPP 24 11:30 – 13:00 ZEU 255
Colloids and Complex Fluids I (joint session BP/ CPP/DY, organised by CPP)
- CPP 25 14:00 – 16:00 ZEU 222
Fundamentals of Perovskite Photovoltaics IV (joint session CPP/DS/HL)
- CPP 26 14:00 – 16:00 ZEU 260
Molecular Electronics and Excited State Properties
- CPP 27 14:00 – 15:45 ZEU 114
Photoswitchable Materials
- CPP 28 14:00 – 15:45 ZEU 160
Focus: Soft Particles in Flows III (joint focus session CPP/DY)
- CPP 29 14:00 – 16:00 ZEU 250
Polymer Networks and Dynamics III: Mechanical Properties

Physics Education Division (DD)

Prize Talks, Invited Talk

- DD 11.1 10:00 – 10:20 HSZ 01
Astronomie und Raumfahrt als Kontextbausteine im Physikunterricht der Oberstufe
•*Matthias Borchardt (Laureate of the DPG Prize for Excellent Physics-Teaching at Schools 2016)*
- DD 11.2 10:20 – 10:40 HSZ 01
Motivation Physik – Hürden auf dem Weg zum Physikstudium
•*Beate Brase (Laureate of the DPG Prize for Excellent Physics-Teaching at Schools 2016)*
- DD 11.3 10:40 – 11:00 HSZ 01
Jugendliche für Astronomie begeistern – Aus dem Alltag einer Astronomie-AG
•*Rita Isenmann (Laureate of the DPG Prize for Excellent Physics-Teaching at Schools 2016)*

- DD 11.4 11:00 – 11:30 HSZ 01
 Uni(versum) für alle – Halbe Heidelberger
 Sternstunden
 •*Joachim Wambsganß*
 (*Preisträger des Georg-Kerschensteiner-Preises*
2017)
- DD 12.1 13:00 – 14:00 GER 38
 Von der individuellen Förderung zur Inklusion
 •*Insa Melle*
- Sessions**
- DD 11 10:00 – 11:30 HSZ 01
 Preisträgervorträge
- DD 12 13:00 – 14:00 GER 38
 Hauptvortrag 2
- DD 13 14:00 – 15:40 GER 39
 Lehr- und Lernforschung 2
- DD 14 14:00 – 15:40 GER 52
 Neue Konzepte 2
- DD 15 14:00 – 15:40 GER 54
 Neue Medien
- DD 16 14:00 – 15:40 GER 009
 Anregungen aus dem Unterricht für den Unter-
 richt 2
- 16:00 – 18:00 GER 38
 Mitgliederversammlung des Fachverbandes
 Didaktik der Physik

Dielectric Solids Division (DF)

Topical Talks

- DF 7.1 09:30 – 10:00 GER 37
 Synthesis of large-area single-crystal diamond
 by heteroepitaxy for application as dielectric
 window material
 •*Matthias Schreck, Stefan Gsell, Martin Fischer*

- DF 7.3 10:20 – 10:50 GER 37
 Design, materials composition and manufacturing of components for advanced modular gyrotron prototypes
 •*Sebastian Ruess, Gaetano Aiello, Gerd Gantenbein, Tomasz Rzesnicki, Theo Scherer, Dirk Strauss, Manfred Thumm, Jörg Weggen, John Jelonnek*
- DF 7.4 11:10 – 11:40 GER 37
 Dielectric diamond window for the ITER EC H&CD Upper Launcher: design, analysis and qualification
 •*Gaetano Aiello, Mario Gagliardi, Giovanni Grossetti, Francesco Mazzocchi, Andreas Meier, Gabriella Saibene, Sabine Schreck, Peter Spaeh, Dirk Strauss, Alessandro Vaccaro, Theo Scherer*
- DF 8.1 09:30 – 10:00 WIL B321
 Room temperature skyrmions and robust metastable skyrmion states in $\text{Co}_8\text{Zn}_8\text{Mn}_4$
 •*Jonathan White, Kosuke Karube, Nicole Reynolds, Jorge Gavilano, Hiroshi Oike, Akiko Kikkawa, Fumitaka Kagawa, Yusuke Tokunaga, Henrik Ronnow, Yoshinori Tokura, Yasujiro Taguchi*
- Sessions**
- DF 6 09:30 – 12:15 HSZ 02
 SYBM – Bioinspired Functional Materials: From Nature's Nanoarchitectures to Nanofabricated Designs (CPP with BP, MM, DF, DY und MI)
- DF 7 09:30 – 12:20 GER 37
 Focus: Microwave and THz Properties, Developments and Applications of Dielectric Materials
- DF 8 09:30 – 13:30 WIL B321
 Ferroics – Domains, Domain Walls and Skyrmions I
- DF 9 14:00 – 16:00 P1C
 Poster Session

Thin Films Division (DS)

Topical Talks

- DS 20.1 09:30 – 10:00 CHE 89
Driving nanophotonics to the atomic scale
•*Javier Aizpurua*
- DS 20.2 10:00 – 10:30 CHE 89
Transverse and Longitudinal Resonances in Plasmonic Gold Tapers
Surong Guo, Nahid Talebi, Wilfried Sigle, Ralf Vogelgesang, Gunther Richter, Martin Esmann, Simon F. Becker, Christoph Lienau, •Peter A. van Aken
- DS 20.3 10:30 – 11:00 CHE 89
Nanoimaging and control of polaritons in 2D materials
•*Rainer Hillenbrand*
- DS 20.4 11:15 – 11:45 CHE 89
Switchable infrared nanophotonic elements enabled by phase-change materials
•*Thomas Taubner*
- DS 20.5 11:45 – 12:15 CHE 89
Nonlocal response in plasmonic nanoparticles: How much quantum?
•*N. Asger Mortensen*
- DS 20.6 12:15 – 12:45 CHE 89
Short-range plasmonics
•*Harald Giessen*

Sessions

- DS 18 09:30 – 11:45 HSZ 201
Transport: Topological Semimetals 1 (jointly with MA/TT)
- DS 19 09:30 – 12:30 ZEU 222
Fundamentals of Perovskite Photovoltaics III (jointly with CPP/HL)
- DS 20 09:30 – 12:45 CHE 89
Focussed Session: Frontiers in Exploring and Applying Plasmonic Systems II (Joint Session of CPP, DS, HL, MM, and O, organised by DS)

- DS 21 09:30 – 13:00 CHE 91
Thin Film Characterisation: Structure Analysis
and Composition II
- DS 22 09:30 – 13:15 POT 51
Two-dimensional materials III (jointly with HL/TT)
- DS 23 09:30 – 13:15 POT 251
Organic Semiconductors (jointly with CPP/HL)
- DS 24 14:00 – 16:00 ZEU 222
Fundamentals of Perovskite Photovoltaics IV
(jointly with CPP/HL)
- DS 25 15:30 – 16:00 WIL C307
Gaede-Prize Talk (jointly with O)
- DS 26 18:30 – 20:30 P1C
Metallic Nanowires on Semiconductor Sur-
faces (jointly with O)
- DS 27 18:30 – 20:30 P2-EG
2D Materials beyond Graphene (jointly with O)

Dynamics and Statistical Physics Division (DY)

Invited Talks

- DY 14.1 09:30 – 10:00 HÜL 186
Tactic Response of Synthetic Microswimmers
in Gravitational and Optical Fields
•*Clemens Bechinger*
- DY 14.7 11:30 – 12:00 HÜL 186
Emergent structures in actuated magnetic
and active colloidal suspensions
•*Ignacio Pagonabarraga*
- DY 16.1 09:30 – 10:00 ZEU 118
The Geostrophic Branch of Rotating Convec-
tion
•*Stephan Stellmach, Meredith Plumley, Keith
Julien, Philippe Marti*
- DY 16.7 11:30 – 12:00 ZEU 118
Convection rolls and fingers in double diffu-
sive convection
•*Andreas Tilgner*

DY 20.1 14:00 – 14:30 ZEU 160
 Particle based simulations of viscoelastic Soft Matter
 •Wim Briels

Sessions

- DY 14 09:30 – 13:00 HÜL 186
 Microswimmers I (joint session DY/BP)
- DY 15 09:30 – 13:15 ZEU 160
 Quantum Dynamics, Decoherence, Quantum Information
- DY 16 09:30 – 13:15 ZEU 118
 Focus: Fundamental aspects of turbulent convection
- DY 17 09:30 – 13:00 SCH A251
 Physics of Physarum polycephalum and Other Slime Molds – Joint Focus Session (BP/DY) organised by Hans-Günther Döbereiner
- DY 18 10:00 – 13:00 ZEU 147
 Brownian Motion / Noise (joint session DY/TT)
- DY 19 11:30 – 13:00 ZEU 255
 Colloids and Complex Fluids I (joint session BP/ CPP/DY, organised by CPP)
- DY 20 14:00 – 15:45 ZEU 160
 Soft Particles in Flows III (Focus session, joint DY/ CPP)
- DY 21 14:00 – 16:00 ZEU 118
 Statistical Physics in Biological Systems (joint session DY/ BP/ CPP)
- DY 22 14:00 – 16:00 P1A
 Posters – Statistical Physics of Biological Systems
- DY 23 14:30 – 15:45 HÜL 186
 Microswimmers II (joint session DY/BP)
- DY 24 14:30 – 15:45 ZEU 147
 Pattern Formation / Reaction-Diffusion I

- DY 25 18:15 – 21:00 P3
Posters – Soft Particles, Microswimmers,
Microfluidics
- DY 26 18:15 – 21:00 P3
Posters – Statistical Physics, Stochastic
Thermodynamics
- DY 27 18:15 – 21:00 P3
Posters – Statistical Physics Biological
Systems
- DY 28 18:15 – 21:00 P3
Posters – Dynamics of Many-Body Systems

History of Physics Division (GP)

Invited Talks

- GP 4.1 09:30 – 10:15 HSZ 105
The Atomic Gift
•*Jahnvi Phalkey*
- GP 6.1 14:00 – 14:45 HSZ 105
The Joint Institute for Nuclear Research and
Cold War science diplomacy
•*Karl Hall*

Sessions

- GP 4 09:30 – 11:15 HSZ 105
Instrumente
- GP 5 11:30 – 13:00 HSZ 105
Freie Sektion II
- GP 6 14:00 – 15:45 HSZ 105
Orte und Theorien

Semiconductor Physics Division (HL)

Invited Talks

- HL 33.1 09:30 – 10:00 POT 81
Deterministic Single Quantum Dot Devices:
Building Blocks for Photonic Quantum Net-
works
•*Stephan Reitzenstein*

- HL 34.7 11:30 – 12:00 POT 51
Influence of dark states on excitonic spectra of transition metal dichalcogenides
•*Malte Selig, Dominik Christiansen, Gunnar Berghäuser, Ermin Malic, Andreas Knorr*
- HL 35.1 09:30 – 10:00 POT 151
Edge conduction in the 2D topological insulator candidate InAs/GaSb
•*Susanne Mueller, Matija Karalic, Christopher Mittag, Lars Tiemann, Thomas Tschirky, Qiansheng Wu, Alexey A. Soluyanov, Atin Nath Pal, Christophe Charpentier, Matthias Troyer, Werner Wegscheider, Klaus Ensslin, Thomas Ihn*
- HL 35.4 10:30 – 11:00 POT 151
Progress in Edge Channel Transport of Two-Dimensional Topological Insulators
•*Hartmut Buhmann*
- HL 35.5 11:30 – 12:00 POT 151
Transport and capacitance in HgTe-based topological insulators
•*Dieter Weiss*
- HL 35.7 12:15 – 12:45 POT 151
Giant Spin-Orbit Splitting in Inverted InAs/GaSb Double Quantum Wells
•*Fabrizio Nichele, Morten Kjaergaard, Henri J. Suominen, Rafal Skolasinski, Michael Wimmer, Binh-Minh Nguyen, Andrey A. Kiselev, Wei Yi, Marko Sokolich, Michael J. Manfra, Fanming Qu, Arjan J. A. Beukman, Leo P. Kouwenhoven, Charles M. Marcus*

Sessions

- HL 29 09:30 – 13:15 HSZ 103
Transport: Quantum Coherence and Quantum Information Systems – Theory (jointly with MA, HL)
- HL 30 09:30 – 12:30 ZEU 222
Fundamentals of Perovskite Photovoltaics III (joint session CPP/DS/HL)
- HL 31 09:30 – 12:45 ZEU 260
Organic Electronics and Photovoltaics III: Mobile and Trapped Charges

- HL 32 09:30 – 12:45 CHE 89
Focussed Session: Frontiers in Exploring and Applying Plasmonic Systems I (Joint Session of CPP, DS, HL, MM, and O, organised by DS)
- HL 33 09:30 – 13:00 POT 81
Quantum Dots: Optical Properties I
- HL 34 09:30 – 13:15 POT 51
Two-dimensional materials III (joined session with TT)
- HL 35 09:30 – 12:45 POT 151
Focus Session: Topological Insulators on Coupled Quantum Wells (joined session with TT)
- HL 36 09:30 – 13:15 POT 251
Organic Semiconductors (joined session with CPP, DS)
- HL 37 09:30 – 12:30 POT 112
III-V Semiconductors
- HL 38 09:30 – 11:15 POT 06
Zinc Oxide
- HL 39 10:30 – 13:00 TRE Ma
Plasmonics and Nanooptics IV: Light-Matter Interaction
- HL 40 10:30 – 13:00 GER 38
Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – III
- HL 41 11:45 – 13:00 POT 06
Nitrides: Preparation
- HL 42 14:00 – 16:00 ZEU 222
Fundamentals of Perovskite Photovoltaics IV (joint session CPP/DS/HL)
- HL 43 14:00 – 16:00 TRE Ma
Plasmonics and Nanooptics V: Light-Matter Interaction
- HL 44 14:45 – 16:00 POT 81
Quantum Dots: Optical Properties II

Crystallography Division (KR)

18:00 – 19:00 HSZ 204

Annual General Meeting of the Crystallography Division

Magnetism Division (MA)

Invited Talks

- Tue**
- MA 17.1 09:45 – 10:30 HSZ 04
Frustrated Quantum Magnets: Theory
•*Matthias Vojta*
- MA 17.2 10:30 – 11:15 HSZ 04
Ground State Selection in Quantum Pyrochlore Magnets
•*Bruce D. Gaulin*
- MA 17.3 11:30 – 12:00 HSZ 04
Effects of anisotropic exchange in strong spin-orbit coupled magnets
•*Natalia Perkins*
- MA 17.4 12:00 – 12:30 HSZ 04
Numerical Approaches to Frustrated Quantum Magnets
•*Stephan Rachel*
- MA 17.6 13:45 – 14:15 HSZ 04
Nuclear Probes on Frustrated Magnets
•*Philippe Mendels*
- MA 17.7 14:15 – 14:45 HSZ 04
Complex spin structures and multifunctional magnetism
•*Vivien Zapf*
- MA 22.1 09:30 – 10:00 HSZ 401
Tuning the zero-point spin-fluctuations of single adatoms
•*Julen Ibañez-Azpiroz*

Sessions

- MA 17 09:30 – 15:00 HSZ 04
PhD Symposium: Quantum Magnets: Frustration and Topology in Experiment and Theory (jointly with Young DPG (jDPG))

- MA 18 09:30 – 13:15 HSZ 103
Transport: Quantum Coherence and Quantum Information Systems – Theory (jointly with MA, HL)
- MA 19 09:30 – 11:45 HSZ 201
Transport: Topological Semimetals 1 (jointly with DS, MA, HL, O)
- MA 20 09:30 – 13:00 HSZ 301
Bio- and Molecular Magnetism
- MA 21 09:30 – 13:00 HSZ 304
Correlated Electrons: Frustrated Magnets – Strong Spin-Orbit Coupling 1
- MA 22 09:30 – 12:30 HSZ 401
Surface Magnetism (Joint Session with O)
- MA 23 09:30 – 12:15 HSZ 403
Spin Dynamics and Transport: Ultrafast Effect
- MA 24 09:30 – 12:20 GER 37
Focus: Microwave and THz Properties, Developments and Applications of Dielectric Materials
- MA 25 09:30 – 13:30 WIL B321
Ferroics – Domains, Domain Walls and Skyrmions I
- MA 26 14:00 – 16:00 HSZ 101
Thin Films: Magnetic Coupling Phenomena / Exchange Bias
- MA 27 14:00 – 15:45 HSZ 301
Spintronics (incl. Quantum Dynamics)
- MA 28 14:00 – 15:45 HSZ 401
Spin Dynamics and Transport: Domain Walls
- MA 29 14:00 – 15:15 HSZ 403
Spin dependent Transport Phenomena
- MA 30 18:30 – 20:30 P1A
Electronic structure of Surfaces: Magnetism and Spin Phenomena
- MA 31 18:30 – 20:30 P2-EG
Ultrafast Electron and Spin Dynamics

Microprobes Division (MI)

Session

- MI 3 09:30 – 12:15 HSZ 02
Symposium Bioinspired Functional Materials:
From Nature's Nanoarchitectures to Nanofab-
ricated Designs

Metal and Material Physics Division (MM)

Invited Talk, Topical Talk

- MM 23.1 09:30 – 10:00 BAR 205
Integration of Grain Boundary Mechanics and
Migration
•*David Srolovitz, Jian Han, Spencer Thomas,
Vaclav Vitek*
- MM 25.1 10:15 – 10:45 BAR 205
Atomistic Studies on the Role of Interface
Curvature on Deformation and Failure of
Interface-Controlled Materials
•*Erik Bitzek*

Sessions

- MM 23 09:30 – 10:00 BAR 205
Invited talk Srolovitz
- MM 24 09:30 – 12:15 HSZ 02
Bioinspired Functional Materials: From Na-
ture's Nanoarchitectures to Nanofabricated
Designs
- MM 25 10:15 – 11:30 BAR 205
Topical session: Interface-Controlled Mi-
crostructures: Mechanical Properties and
Mechano-Chemical Coupling – Structure and
Deformation I
- MM 26 10:15 – 11:30 IFW A
SYLI: Symposium Interfacial Challenges in
Solid-State Li Ion Batteries – NMR studies
- MM 27 10:15 – 11:15 IFW B
Computational Materials Modelling Electronic
structure approaches

- MM 28 10:15 – 11:45 IFW D
Transport I – atomic transport
- MM 29 10:30 – 13:00 GER 38
Electronic Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – III
- MM 30 11:45 – 13:00 BAR 205
Topical session: Interface-Controlled Microstructures: Mechanical Properties and Mechano-Chemical Coupling – Structure and Deformation II
- MM 31 11:45 – 12:45 IFW A
SYLI: Symposium Interfacial Challenges in Solid-State Li Ion Batteries – Structure – property relationships I
- MM 32 11:45 – 13:15 IFW B
Microstructure and Phase Transformations – detection methods
- MM 33 12:00 – 13:00 IFW D
Transport II – charge transport
- MM 34 18:30 – 20:30 P4
Poster session II
- MM 35 18:30 – 20:30 P2-OG4
Electronic Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond

Surface Science Division (O)

Invited Talks

- O 25.1 09:30 – 10:15 TRE Phy
Electrochemistry: A new frontier for a theoretical surface scientist
•Axel Groß
- O 27.1 10:30 – 11:00 TRE Phy
The role of nonadiabatic friction in chemical dynamics at metal surfaces
•Reinhard Maurer

- O 30.1 10:30 – 11:00 GER 38
Including spin effects in the strong-coupling limit of DFT
•Paola Gori-Giorgi, Juri Grossi, Derk Pieter Kooi, Klaas Giesbertz, Michael Seidl, Aron Cohen, Paula Mori-Sanchez
- O 32.1 10:30 – 11:00 WIL C307
Electrical detection of spin-polarized transport on topological insulator via four-probe spectroscopy
•An-Ping Li, Saban Hus, Corentin Durand, Xiaoguang Zhang, Giang Nguyen, Yong Chen
- O 32.5 11:45 – 12:15 WIL C307
Probing electron transport with atomic scale precision
•Christian A. Bobisch
- O 34.1 10:30 – 11:00 HSZ 101
Self-Assembly at the Liquid/Solid Interface: Playing on the Nanoscale and Taming Molecules
•Manfred Buck
- O 36.1 14:00 – 14:30 TRE Phy
Attosecond control of excited electrons and nuclei in gas- and condensed-phase systems
•Thomas Pfeifer
- O 36.2 14:30 – 15:00 TRE Phy
Probing ultrafast electron and spin dynamics in momentum, space, and time – chances and opportunities of a surface science end station at ELI-ALPS
•Stefan Mathias
- O 36.3 15:00 – 15:30 TRE Phy
Attosecond electron dynamics on surfaces and layered systems
•Reinhard Kienberger
- O 36.4 15:30 – 16:00 TRE Phy
Coincidence ARPES on molecules
•Reinhard Doerner

- O 38.1 14:00 – 14:30 WIL A317
Tuning excitonic excitations in molecular layers
•*Martin Weinelt, Cornelius Gahl*
- O 40.1 14:00 – 14:30 WIL C307
Performances of the new low temperature
ultrahigh vacuum 4 scanning tunneling micro-
scopes
•*Christian Joachim, Delphine Sordes, Corentin
Durand, We-Hyo Soe, Marek Kolmer*
- O 43.1 15:30 – 16:00 WIL C307
STM-induced light emission: from molecular
LED to sub-nanometric optical microscopy.
•*Guillaume Schull*
(*Laureate of the Gaede-Prize 2017*)

Sessions

- O 25 09:30 – 10:15 TRE Phy
Overview Talk: Axel Groß
- O 26 10:15 – 11:30 IFW A
SYLI: Symposium Interfacial Challenges in
Solid-State Li Ion Batteries NMR studies
- O 27 10:30 – 12:30 TRE Phy
Surface Dynamics: Theory
- O 28 10:30 – 13:00 TRE Ma
Plasmonics and Nanooptics IV: Light-Matter
Interaction
- O 29 10:30 – 13:00 WIL A317
Organic-Inorganic Hybrid Systems and Or-
ganic Films IV
- O 30 10:30 – 13:00 GER 38
Electronic Structure Theory: New Concepts
and Developments in Density Functional
Theory and Beyond – III
- O 31 10:30 – 13:00 WIL C107
Oxide and Insulator Surfaces: Structure, Epi-
taxy and Growth I
- O 32 10:30 – 13:00 WIL C307
Focus Session: Charge Transport at Surfaces
and Nanostructures with Multi-probe Tech-
niques I

- O 33 10:30 – 13:00 REC/PHY C213
Nanostructures at Surfaces: Metals, Oxides
and Semiconductors I
- O 34 10:30 – 12:15 HSZ 101
Solid-Liquid Interfaces: Reactions and Electro-
chemistry – Experiment II
- O 35 12:15 – 13:15 HSZ 101
Solid-Liquid Interfaces: Reactions and Electro-
chemistry – Theory I
- O 36 14:00 – 16:00 TRE Phy
ELI-ALPS: A New European Light Source for
Ultrafast Surface Science
- O 37 14:00 – 16:00 TRE Ma
Plasmonics and Nanooptics V: Light-Matter
Interaction
- O 38 14:00 – 16:00 WIL A317
Organic-Inorganic Hybrid Systems and Or-
ganic Films V
- O 39 14:00 – 16:00 WIL C107
Oxide and Insulator Surfaces: Structure, Epi-
taxy and Growth II
- O 40 14:00 – 15:15 WIL C307
Focus Session: Charge Transport at Surfaces
and Nanostructures with Multi-probe Tech-
niques II
- O 41 14:00 – 16:00 REC/PHY C213
Nanostructures at Surfaces: Metals, Oxides
and Semiconductors II
- O 42 14:00 – 16:00 WIL B321
Solid-Liquid Interfaces: Reactions and Electro-
chemistry – Theory II
- O 43 15:30 – 16:00 WIL C307
Gaede-Prize Talk
- O 44 18:30 – 20:30 P1A
Metal Substrates: Structure, Epitaxy and
Growth
- O 45 18:30 – 20:30 P1A
Organic-Inorganic Hybrid Systems and Or-
ganic Films

- O 46 18:30 – 20:30 P1A
Electronic Structure of Surfaces: Spectroscopy, Surface States
- O 47 18:30 – 20:30 P1A
Electronic Structure of Surfaces: Magnetism and Spin Phenomena
- O 48 18:30 – 20:30 P1A
Oxide and Insulator Surfaces: Structure, Epitaxy and Growth
- O 49 18:30 – 20:30 P1A
Oxide and Insulator Surfaces: Adsorption
- O 50 18:30 – 20:30 P1A
Semiconductor Substrates: Structure, Epitaxy, Growth and Adsorption
- O 51 18:30 – 20:30 P1C
Nanostructures at Surfaces: 1D and 2D Structures and Networks
- O 52 18:30 – 20:30 P1C
Nanostructures at Surfaces: Dots, Particles, Clusters
- O 53 18:30 – 20:30 P1C
Nanostructures at Surfaces: Other Aspects
- O 54 18:30 – 20:30 P1C
Metallic Nanowires on Semiconductor Surfaces
- O 55 18:30 – 20:30 P2-EG
Graphene
- O 56 18:30 – 20:30 P2-EG
2D Materials beyond Graphene
- O 57 18:30 – 20:30 P2-EG
Ultrafast Electron and Spin Dynamics
- O 58 18:30 – 20:30 P2-EG
Surface Science: Misc.
- O 59 18:30 – 20:30 P2-OG1
Plasmonics and Nanooptics

- O 60 18:30 – 20:30 P2-OG2
Solid-Liquid Interfaces: Structure, Spectroscopy, Reactions and Electrochemistry
- O 61 18:30 – 20:30 P2-OG2
Heterogeneous Catalysis
- O 62 18:30 – 20:30 P2-OG2
Surface Dynamics
- O 63 18:30 – 20:30 P2-OG3
Focus Session: Charge Transport at Surfaces and Nanostructures with Multi-probe Techniques
- O 64 18:30 – 20:30 P2-OG3
Scanning Probe Techniques: Method development
- O 65 18:30 – 20:30 P2-OG4
Electronic Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond

Physics of Socio-economic Systems Division (SOE)

Invited Talk

- SOE 7.1 09:30 – 10:15 GÖR 226
Diffusion of Innovations under Direct and Indirect Peers Pressure
•*Ernesto Estrada*

Sessions

- SOE 7 09:30 – 10:15 GÖR 226
Innovation Dynamics on Networks (Invited Talk Ernesto Estrada)
- SOE 8 10:15 – 11:00 GÖR 226
Economic Models I
- SOE 9 11:00 – 12:15 GÖR 226
Evolutionary Game Theory (joint session SOE / BP / DY)
- SOE 10 14:00 – 14:45 GÖR 226
Traffic and Organization of Cities

- SOE 11 14:45 – 15:30 GÖR 226
Physics of Collective Mobility (joint session
SOE / DY / BP / jDPG, accompanying the
symposium)
- SOE 12 15:30 – 16:00 GÖR 226
Annual General Meeting of the Physics of
Socio-economic Systems Division

Low Temperature Physics Division (TT)

Invited Talks

- TT 21.1 09:30 – 10:00 HSZ 03
BCS-BEC Crossover, Preformed Pairs and
Highly Spin-Polarized Superconducting Phase
in FeSe
•*Yuji Matsuda*
- TT 21.2 10:00 – 10:30 HSZ 03
Discovery of Orbital-Selective Cooper Pairing
in FeSe
•*J. C. Séamus Davis, Peter Sprau, Andrey Kostin,
Andreas Kreisel, Anna Böhrer, Paul Canfield, S.
Mukherjee, Peter Hirschfeld, Brian Andersen*
- TT 21.3 10:30 – 11:00 HSZ 03
Frustrated Magnetism and Electron-Electron
Interactions in FeSe
•*Roser Valenti*
- TT 21.4 11:15 – 11:45 HSZ 03
Orbital-Selective Pairing and Gap Structures
of Iron-Based Superconductors
•*Brian Andersen*
- TT 21.5 11:45 – 12:15 HSZ 03
New Experimental Results Concerning the
Nematic State in Fe-based Superconductors
•*Christoph Meingast*

Sessions

- TT 21 09:30 – 12:15 HSZ 03
Focus Session: Nematicity, Magnetism and
Superconductivity in FeSe and Related Com-
pounds

- TT 22 09:30 – 13:15 HSZ 103
 Transport: Quantum Coherence and Quantum Information Systems – Theory (jointly with MA, HL)
- TT 23 09:30 – 11:45 HSZ 201
 Transport: Topological Semimetals 1 (jointly with DS, MA, HL, O)
- TT 24 09:30 – 13:00 HSZ 204
 Low-Dimensional Systems: 1D – Theory
- TT 25 09:30 – 13:00 HSZ 304
 Correlated Electrons: Frustrated Magnets – Strong Spin-Orbit Coupling 1
- TT 26 09:30 – 13:15 POT 51
 Two-Dimensional Materials III (joint session DS, HL, TT, organised by HL)
- TT 27 09:30 – 12:45 POT 151
 Focus Session: Topological Insulators on Coupled Quantum Wells (joint session DS, HL, MA, O, TT, organised by HL)
- TT 28 10:30 – 13:00 GER 38
 Electronic-Structure Theory: New Concepts and Developments in Density Functional – Theory and Beyond – III (joint session DS, HL, MA, MM, O, TT, organised by O)
- TT 29 12:00 – 13:00 HSZ 201
 Other Low Temperature Topics: Cold Atomic Gases
- TT 30 14:00 – 16:00 HSZ 03
 Correlated Electrons: Quantum Impurities, Kondo Physics
- TT 31 14:00 – 16:00 HSZ 103
 Correlated Electrons: Other Materials
- TT 32 14:00 – 15:15 HSZ 201
 Transport: Nanomechanics and Optomechanics (jointly with CPP, DY, BP, DF)
- TT 33 14:00 – 16:00 HSZ 204
 Transport: Majorana Fermions

- TT 34 14:00 – 15:45 HSZ 301
Spintronics, incl. Quantum Dynamics (joint session DS, HL, MA, TT, organised by MA)
- TT 35 14:00 – 15:30 HSZ 304
Low-Dimensional Systems: 2D – Theory
- TT 36 10:00 – 13:00 ZEU 147
Brownian Motion (jointly with DY)
- TT 37 18:30 – 20:30 P2-EG
Graphene Posters (joint session DS, DY, HL, MA, O, TT, organised by O)

Working Group on Accelerator physics (AKBP)

Sessions

- AKBP 2 09:30 – 12:45 MOL 213
New Accelerator Concepts II
- AKBP 3 15:00 – 16:15 MOL 213
Particle Sources

Working Group on Equal Opportunities (AKC)

Session

- AKC 1 14:00 – 16:00 HSZ 02
Fund your Research – Fördermöglichkeiten in der Wissenschaft

Working Group „Young DPG“ (AGjDPG)

Invited Talks

- AGjDPG 2.1 14:00 – 14:30 HSZ 02
Vom Antrag zur Finanzierung – Fördermöglichkeiten der DFG
•*Karin Zach*
- AGjDPG 2.2 14:30 – 15:00 HSZ 02
Die Fördermöglichkeiten des Bundes für Forschungsprojekte und den innovativen Mittelstand
•*Alexandra Bender*

AGjDPG 2.3 15:00 – 15:30 HSZ 02
Funding Opportunities Provided by the German Academic Exchange Service (DAAD)
•*Holger Finken*

AGjDPG 2.4 15:30 – 16:00 HSZ 02
Crafting a competitive grant application.
•*Tobias Klose*

Sessions

AGjDPG 1 09:30 – 15:00 HSZ 04
PhD Symposium: Quantum Magnets: Frustration and Topology in Experiment and Theory (jointly with MA)

AGjDPG 2 14:00 – 16:00 HSZ 02
Fund your Research – Fördermöglichkeiten in der Wissenschaft

Exhibition on Scientific Instruments and Literature

09:00 – 17:00 Foyer HSZ, Tents A/B

Job Market

12:00 – 13:00 HSZ 405
Basycon – „Hypothesen, Modelle, Experimente – Was Forschung und Unternehmensberatung gemeinsam haben“

13:15 – 14:15 HSZ 405
McKinsey –
„Karrieremöglichkeiten bei McKinsey“

EinsteinSlam

AGjDPG 3 20:00 – 22:00 HSZ 01

Wednesday, March 22, 2017

Plenary Talks

- PV XIII 08:30 – 09:15 HSZ 01
Characterisation of Biological Photoreceptors
in Space and Time
•*Peter Hegemann*
- PV XVI 14:00 – 14:45 HSZ 01
Networks powered by quantum entanglement:
from the first loophole-free Bell test to a quan-
tum Internet
•*Ronald Hanson*
- PV XVII 14:00 – 14:45 HSZ 02
The Statistical Mechanics of Active Matter
•*Michael Cates*

Prize Talks

- PV XIV 13:15 – 13:45 HSZ 01
Functional domain walls in multiferroic oxides
•*Dennis Meier*
(*Laureate of the Gustav-Hertz-Prize 2017*)
- PV XVIII 15:00 – 15:30 HSZ 04
Magnon transport in spin textures
•*Helmut Schultheiß*
(*Laureate of the Walter-Schottky-Prize 2017*)

Lunch Talk

- PV XV 13:15 – 13:45 HSZ 02
Physics Crossing Boundaries: From Nanosci-
ence to Bio and IT Spin-Off Companies and a
New Open-Access Journal
•*Richard Palmer*

Symposium Physics of Collective Mobility (SYCM)

Invited Talks

- SYCM 1.1 09:30 – 10:00 HSZ 02
Mobility in shareability networks
•*Michael Szell*

- SYCM 1.2 10:00 – 10:30 HSZ 02
Trail-following bacteria: from single particle dynamics to collective behaviour
Anatolij Gelimson, Kun Zhao, Calvin K. Lee, W. Till Kranz, Gerard C. L. Wong, •Ramin Golestanian
- SYCM 1.3 10:30 – 11:00 HSZ 02
Mobility and Self-Organization in Multi-Layer Networks: A Meta-Foodweb example
•Thilo Gross, Andreas Brechtel, Philipp Gramlich, Daniel Ritterskamp, Barbara Drossel
- SYCM 1.4 11:15 – 11:45 HSZ 02
Temporal Percolation in Critical Collective Mobility Systems
•Andreas Sorge, Debsankha Manik, Jan Nagler, Marc Timme
- SYCM 1.5 11:45 – 12:15 HSZ 02
Modeling the evolution of cities
•Marc Barthelemy

Session

- SYCM 1 09:30 – 12:15 HSZ 02
Physics of Collective Mobility (Symposium SYCM, joint SOE / DY / BP / jDPG)

Symposium Interfacial Challenges in Solid-State Li Ion Batteries (SYLI)

Sessions

- SYLI 6 10:15 – 11:30 IFW A
Defects, structure and thermodynamics
- SYLI 7 11:45 – 12:45 IFW A
Hybrid and structured electrolytes
- SYLI 8 15:45 – 16:45 IFW D
Structure – property relationships II

Symposium Nanostructuring Beyond Conventional Lithography (SYNS)

Invited Talks

- SYNS 1.1 15:00 – 15:30 HSZ 02
The Limits to Lithography: How Electron-Beams Interact with Materials at the Smallest Length Scales
•*Karl K. Berggren*
- SYNS 1.2 15:30 – 16:00 HSZ 02
High precision fabrication for light management at nanoscale
•*Saulius Juodkazis, Armandas Balcytis*
- SYNS 1.3 16:00 – 16:30 HSZ 02
Directed self-assembly of performance materials
•*Paul Nealey*
- SYNS 1.4 16:45 – 17:15 HSZ 02
Nanometer accurate topography patterning using thermal Scanning Probe Lithography
•*Armin W. Knoll*
- SYNS 1.5 17:15 – 17:45 HSZ 02
High resolution 3D nanoimprint lithography
•*Hartmut Hillmer*

Session

- SYNS 1 15:00 – 17:45 HSZ 02
Symposium Nanostructuring Beyond Conventional Lithography \\ (MI with DS, DF, HL, MM and VA)

Biological Physics Division (BP)

Invited Talks

- BP 38.1 09:30 – 10:00 HÜL 386
Simulations move toward the understanding of protein-mediated membrane fusion
•*Herre Jelger Risselada*
- BP 39.5 11:15 – 11:45 SCH A251
Navigating the cytoskeleton: new tools to dissect and direct intracellular transport
•*Lukas Kapitein*

BP 42.1 15:00 – 15:30 ZEU 250
Linking AMPA receptor nanoscale organization and function at excitatory synapses
•*Daniel Choquet*

BP 43.1 15:00 – 15:30 HÜL 386
Diffusive anchorage of molecular motors allows for adaptive force generation
•*Stefan Diez*

Sessions

BP 36 08:30 – 09:15 HSZ 01
Plenary Talk

BP 37 09:30 – 12:15 HSZ 02
Physics of Collective Mobility (Joint Symposium SOE/DY/BP/jDPG)

BP 38 09:30 – 13:00 HÜL 386
Membranes and Vesicles I

BP 39 09:30 – 12:30 SCH A251
Optogenetics for the Cytoskeleton – Focus Session organised by Ulrich Schwarz

BP 40 10:15 – 13:00 ZEU 260
Colloids and Complex Fluids II (Joint Session CPP/BP/DY)

BP 41 15:00 – 19:00 HÜL 186
Active Matter I (Joint Session DY/BP/ CPP)

BP 42 15:00 – 17:30 ZEU 250
Neurosciences

BP 43 15:00 – 17:15 HÜL 386
Cytoskeletal Filaments

BP 44 15:00 – 17:15 SCH A251
Biomaterials and Biopolymers (Joint Session BP/ CPP)

BP 45 18:30 – 19:30 HÜL 386
Annual General Meeting of the Biological Physics Division

Chemical and Polymer Physics Division (CPP)

Invited Talks

- CPP 31.1 09:30 – 10:00 ZEU 222
Using classical polymer science tools to manipulate phase transformations, solid-state order and properties of semiconducting plastics – and beyond
•*Natalie Stingelin*
- CPP 35.6 11:45 – 12:15 ZEU 222
Density functional theory of crystallization: from anisotropic particles to polymers
•*Hartmut Loewen*
- CPP 36.1 10:15 – 10:45 ZEU 260
Computer simulations of colloidal systems under flow
•*Arash Nikoubashman*
- CPP 37.5 11:15 – 11:45 ZEU 255
Nonlinear dielectric spectroscopy in supercooled liquids
Peter Lunkenheimer, Marion Michl, Thomas Bauer, Francois Ladieu, Samuel Albert, •Alois Loidl
- CPP 38.1 10:15 – 10:45 ZEU 250
Light-induced degradation of methylammonium and formamidinium Pbl₃ perovskites
•*Norbert H. Nickel, Felix Lang, Victor V. Brus, Jörg Rappich*
- CPP 40.1 15:00 – 15:30 ZEU 222
Architectural Engineering of Semi-Crystalline Elastomers
•*Sergei Sheiko*
- CPP 40.5 16:30 – 17:00 ZEU 222
Chain Trajectory of Semicrystalline Polymers as Revealed by Solid-State NMR Spectroscopy
•*Toshikazu Miyoshi*
- CPP 40.9 17:45 – 18:15 ZEU 222
The Role of Entanglement in Polymer Crystallization
•*Chuanfu Luo*

- CPP 41.1 15:00 – 15:30 ZEU 260
The role of incoherent hopping in the photogeneration of charges in organic semiconductors
•*Anna Köhler*
- CPP 42.5 16:00 – 16:30 ZEU 114
Aqueous Ionic Liquids and Their Influence on Peptide Conformations: Denaturation and Dehydration Mechanisms
•*Jens Smiatek*
- CPP 47.1 16:15 – 16:45 ZEU 255
Hard science with soft spheres: learning from foams and emulsions
•*Wiebke Drenckhan-Andreatta*
- Sessions**
- CPP 30 09:30 – 12:45 HSZ 201
Transport: Molecular Electronics and Photonics (jointly with CPP, HL, MA, O)
- CPP 31 09:30 – 10:00 ZEU 222
Keynote Lecture II
- CPP 32 09:30 – 13:15 CHE 91
Organic Thin Films I (joint session CPP/DS/HL, organised by DS)
- CPP 33 09:30 – 12:45 POT 81
Organic Photovoltaics and Electronics I (joint session CPP/DS/HL, organised by HL)
- CPP 34 09:30 – 12:30 GER 37
Focus: Spatio-Temporal Multiscale Optical Spectroscopy Meets Functional Materials (joint session DF/ CPP/O, organised by DF)
- CPP 35 10:15 – 13:00 ZEU 222
Focus: Polymer Crystallization – from Model Systems to New Materials I
- CPP 36 10:15 – 13:00 ZEU 260
Colloids and Complex Fluids II (joint session BP/ CPP/DY, organised by CPP)
- CPP 37 10:15 – 13:00 ZEU 255
Fluids and Glasses I

- CPP 38 10:15 – 12:45 ZEU 250
Fundamentals of Perovskite Photovoltaics V
(joint session CPP/DS/HL)
- CPP 39 14:45 – 17:45 POT 81
Organic Photovoltaics and Electronics II (joint
session CPP/DS/HL, organised by HL)
- CPP 40 15:00 – 18:15 ZEU 222
Focus: Polymer Crystallization – from Model
Systems to New Materials II
- CPP 41 15:00 – 18:30 ZEU 260
Organic Electronics and Photovoltaics IV: OPV
(joint session CPP/DS/HL, organised by CPP)
- CPP 42 15:00 – 18:00 ZEU 114
Charged Soft Matter, Ionic Liquids and Poly-
ions I
- CPP 43 15:00 – 16:00 ZEU 255
Fluids and Glasses II
- CPP 44 15:00 – 19:00 HÜL 186
Aktive Matter I (joint session DY/BP/ CPP,
organised by DY)
- CPP 45 15:00 – 17:15 SCH A251
Biomaterials and Biopolymers (joint session
BP/ CPP, organised by BP)
- CPP 46 15:00 – 17:00 CHE 91
Organic Thin Films II (joint session CPP/DS/
HL, organised by DS)
- CPP 47 16:15 – 18:15 ZEU 255
Fluids and Interfaces I
- CPP 48 18:30 – 21:00 P2-OG1
Poster: Polymer Crystallization, Nucleation
and Selfassembly
- CPP 49 18:30 – 21:00 P2-OG1
Poster: Surfaces, Interfaces, Thin Films, Nano-
structures
- CPP 50 18:30 – 21:00 P3
Poster: Organic Electronics and Photovoltaics,
Molecular Excitations

- CPP 51 18:30 – 21:00 P3
Poster: Charged Soft Matter, Polyelectrolytes,
Ionic Liquids
- CPP 52 18:30 – 21:00 P3
Poster: Hydrogels, Microgels, Responsive
Polymers

Physics Education Division (DD)

Invited Talk

- DD 26.1 13:00 – 14:00 GER 38
Gutes Atom – böses Atom: Radioaktivität und
der geheime Lehrplan in Schulbüchern
•*Susanne Heinicke*

Sessions

- DD 17 09:30 – 10:50 GER 39
Lehr- und Lernforschung 3
- DD 18 09:30 – 10:50 GER 52
Neue Konzepte 3
- DD 19 09:30 – 10:50 GER 54
Lehreraus- und Lehrerfortbildung 3
- DD 20 09:30 – 10:50 GER 009
Sonstige 1
- DD 21 09:30 – 10:50 GER 007
Experimente
- DD 22 11:10 – 12:10 GER 39
Praktika, neue Praktikumsversuche
- DD 23 11:10 – 12:10 GER 52
Hochschuldidaktik 3
- DD 24 11:10 – 12:10 GER 54
Physikdidaktik und Inklusion
- DD 25 11:10 – 12:10 GER 009
Sonstige 2
- DD 26 13:00 – 14:00 GER 38
Hauptvortrag 3

Dielectric Solids Division (DF)

Topical Talks

- DF 10.1 09:30 – 10:00 GER 37
Mobile electronic excitations studied by ultrafast spectroscopy
•*Stefan Lochbrunner, Franziska Fennel, Steffen Wolter, Tim Völzer*
- DF 10.3 10:20 – 10:50 GER 37
Time-resolved Characterisation of photoactive materials using terahertz spectroscopy
•*Rainer Eichberger*
- DF 10.4 11:10 – 11:40 GER 37
Theoretical simulations of pump-probe spectroscopies in solids
•*Michael Sentef*
- DF 10.6 12:00 – 12:30 GER 37
Accessing micro- and mesoscopic ultrafast electron dynamics in low-dimensional materials
Michele Puppin, Christopher Nicholson, Melanie Müller, Roman Bertoni, Hannes Hübener, Angel Rubio, Claude Monney, Cephise Cacho, Martin Wolf, Alexander Paarmann, Laurenz Rettig,
•*Ralph Ernstorfer*
- DF 11.1 09:30 – 10:00 WIL B321
Implications of domain evolution during the growth of ferroelectric superlattices
Rui Liu, Benjamin Bein, Hsiang-Chun Hsing, Anna Gura, Mohammed Humed Yusuf, Giulia Bertino, Jin-Wen Lai, •*Matthew Dawber*
- DF 11.9 12:15 – 12:45 WIL B321
The electro-caloric effect in BaTiO₃ from first principles
•*Claude Ederer*
- DF 15.1 15:00 – 15:30 WIL B321
Domain and fluctuation dynamics in magneto-electric multiferroics
•*Joachim Hemberger*

Sessions

- DF 10 09:30 – 12:30 GER 37
Focus: Spatio-Temporal Multiscale Optical Spectroscopy Meets Functional Materials (DF with O, CPP)
- DF 11 09:30 – 13:00 WIL B321
Ferroics – Domains, Domain Walls and Skyrmions II
- DF 12 13:15 – 13:45 HSZ 01
PV XV – Dennis Meier
(*Laureate of the Gustav-Hertz-Prize 2017*)
- DF 13 15:00 – 17:45 HSZ 02
SYNS – Symposium Nanostructuring Beyond Conventional Lithography (MI with DS, DF, HL, MM and VA)
- DF 14 15:00 – 18:00 GER 37
Various Topics II
- DF 15 15:00 – 17:30 WIL B321
Ferroics – Domains, Domain Walls and Skyrmions III
- 18:00 – 19:00 GER 37
Annual General Meeting
of the Dielectric Solids Division
- DF 16 18:00 – 20:00 P4
Crystallography – Poster Session (KR with DF)

Thin Films Division (DS)**Topical Talks**

- DS 28.1 09:30 – 10:00 CHE 89
Self-consistent hybrid functional calculations: Electronic and optical properties of oxide semiconductors
•*Daniel Fritsch, Benjamin Morgan, Aron Walsh*
- DS 28.6 11:15 – 11:45 CHE 89
Exceptional Points in Oxide Bulk and Metamaterials
•*Marius Grundmann*

- DS 28.8 12:00 – 12:30 CHE 89
Kinetics and thermodynamics of binary and ternary oxides during molecular beam epitaxy
•Patrick Vogt, Oliver Bierwagen
- DS 32.1 14:45 – 15:15 CHE 89
Defect induced magnetic or optical properties in gallium-based oxides
•Laurent Binet, Didier Gourier
- DS 32.3 15:30 – 16:00 CHE 89
Vacancy defects and electrical compensation in gallium oxide
•Filip Tuomisto
- DS 32.5 16:30 – 17:00 CHE 89
Integration of Oxide Semiconductors with Traditional Semiconductors – A New Twist
•Scott Chambers

Sessions

- DS 28 09:30 – 13:00 CHE 89
Focussed Session: Oxide Semiconductors for Novel Devices I
- DS 29 09:30 – 13:15 CHE 91
Organic Thin Films I
- DS 30 09:30 – 13:15 POT 51
Two-dimensional materials IV (jointly with HL/TT)
- DS 31 10:30 – 13:00 WIL A317
2D Materials Beyond Graphene III (jointly with O)
- DS 32 14:45 – 17:45 CHE 89
Focussed Session: Oxide Semiconductors for Novel Devices II
- DS 33 15:00 – 17:45 HSZ 204
Transport: Topological Semimetals 2 (jointly with MA/TT)
- DS 34 15:00 – 17:00 CHE 91
Organic Thin Films II
- DS 35 15:00 – 17:45 WIL A317
2D Materials Beyond Graphene IV (jointly with O)

- DS 36 17:00 – 19:00 P2-EG
 Postersession I
- 19:00 – 20:00 CHE 89
 Annual General Meeting
 of the Thin Films Division

Dynamics and Statistical Physics Division (DY)

Invited Talks

- DY 30.1 09:30 – 10:00 HÜL 186
 Fast quantum processes without excitations:
 shortcuts to adiabaticity
•Sebastian Deffner
- DY 31.1 09:30 – 10:00 ZEU 118
 Magnetocapillary interactions for self-assembling
 dynamical systems
•Nicolas Vandewalle, Galien Grosjean, Maxime Hubert
- DY 31.2 10:00 – 10:30 ZEU 118
 Influences of fluxes in nonequilibrium soft
 matter
•Marco G. Mazza
- DY 32.6 11:30 – 12:00 HÜL 186
 Semiclassical Classification of Periodic Orbits
 in Quantum Many-Body Systems
•Daniel Waltner, Maram Akila, Boris Gutkin, Petr Braun, Thomas Guhr
- DY 38.1 15:00 – 15:30 ZEU 160
 Asymmetry-Induced Synchronization Stability
 in Power-Grid Networks
•Adilson Motter
- DY 38.7 17:00 – 17:30 ZEU 160
 Nonlinear Rerouting and Response in Electric
 Power Networks
•Marc Timme, Dirk Witthaut, Xiaozhu Zhang
- DY 39.1 15:00 – 15:30 ZEU 118
 Granular Materials: From solid to fluid with a
 variable jamming density
•Stefan Luding

Sessions

- DY 29 09:30 – 12:15 HSZ 02
Physics of Collective Mobility (Symposium SYCM, joint SOE / DY / BP / jDPG)
- DY 30 09:30 – 10:00 HÜL 186
Invited talk
- DY 31 09:30 – 13:00 ZEU 118
Particulate Matter I: From microscopic interactions to collective motion (Focus session)
- DY 32 10:00 – 13:00 HÜL 186
Quantum Chaos
- DY 33 10:00 – 13:15 ZEU 160
Fluid Dynamics and Turbulence
- DY 34 10:15 – 13:00 ZEU 260
Colloids and Complex Fluids II (joint session BP/CPP/DY, organised by CPP)
- DY 35 14:00 – 14:45 HSZ 02
Plenary Talk M. Cates
- DY 36 15:00 – 17:45 HSZ 03
Collective Quantum Dynamics: From Fundamentals to New Phenomena (Focus session joint DY/TT)
- DY 37 15:00 – 19:00 HÜL 186
Aktive Matter I (joint session DY/BP/CPP)
- DY 38 15:00 – 19:15 ZEU 160
The Physics of Power-Grids – Fluctuations, Synchronization and Network Structures (Focus session, joint DY/SOE)
- DY 39 15:00 – 16:15 ZEU 118
Particulate Matter II: From microscopic interactions to collective motion (Focus session)
- DY 40 16:30 – 17:30 ZEU 118
Granular Matter

History of Physics Division (GP)

Invited Talk

- GP 7.1 09:30 – 10:15 HSZ 105
Chancen und Risiken eines transnationalen Lebens: Der Metallforscher Jan Czochralski im 20. Jahrhundert
•*Katrin Steffen*

Sessions

- GP 7 09:30 – 10:45 HSZ 105
Biographien
- GP 8 10:45 – 13:00 HSZ 105
Freie Sektion III

Semiconductor Physics Division (HL)

Invited Talks

- HL 50.1 09:30 – 10:00 POT 251
Photoactivated chemical processes on group III-nitride nanostructures and nanohybrids
Paula Neuderth, Sara Hölzl, Pascal Hille, Jörg Schörmann, Christian Reitz, Mariona Coll, Jordi Arbiol, Roland Marschall, •Martin Eickhoff
- HL 51.1 09:30 – 10:00 POT 112
Coupling atomic and solid state quantum systems
•*Val Zwiller*
- HL 51.5 10:45 – 11:15 POT 112
Strain-tunable quantum dots interfaced with atomic vapors
•*Rinaldo Trotta*
- HL 51.6 11:45 – 12:15 POT 112
Atomic-vapor-enabled variable optical delay for triggered single-photons from a semiconductor quantum dot
•*Hüseyin Vural, Jonas Weber, Markus Müller, Simon Kern, Julian Maisch, Matthias Widmann, Robert Löw, Jörg Wrachtrup, Ilja Gerhardt, Simone Portalupi, Michael Jetter, Peter Michler*

- HL 51.8 12:30 – 13:00 POT 112
Correlating independent spins via single-photon projections
•*Mete Atature*
- HL 58.1 14:45 – 15:15 POT 151
Towards an ideal semiconductor source of polarization entangled photons
•*Fei Ding*

Sessions

- HL 45 09:30 – 13:00 HSZ 03
Transport: Quantum Coherence and Quantum Information Systems – Experiment (jointly with MA, HL)
- HL 46 09:30 – 12:45 HSZ 201
Transport: Molecular Electronics and Photonics (jointly with CPP, HL, MA, O)
- HL 47 09:30 – 12:45 POT 81
Organic Photovoltaics and Electronics I (joined session with CPP)
- HL 48 09:30 – 13:15 POT 51
Two-dimensional materials IV (joined session with TT)
- HL 49 09:30 – 12:45 POT 151
Quantum Dots: Optical Properties III
- HL 50 09:30 – 13:00 POT 251
Nitrides: Preparation and Characterisation
- HL 51 09:30 – 13:00 POT 112
Focus Session: Hybrid Quantum-Dot / Atom Systems
- HL 52 09:30 – 11:30 POT 06
Devices
- HL 53 10:15 – 12:45 ZEU 250
Fundamentals of Perovskite Photovoltaics V (joint session CPP/DS/HL)
- HL 54 10:30 – 12:30 TRE Ma
Plasmonics and Nanooptics VI: Light-Matter Interactions and Characterisation

- HL 55 10:30 – 13:00 GER 38
Electronic-Structure Theory: New Concepts
and Developments in Density Functional
Theory and Beyond – IV
- HL 56 10:30 – 13:00 GER 38
Electronic-Structure Theory: New Concepts
and Developments in Density Functional
Theory and Beyond – IV
- HL 57 14:45 – 17:45 POT 81
Organic Photovoltaics and Electronics II
(joined session with CPP)
- HL 58 14:45 – 18:15 POT 151
Quantum Dots: Optical Properties IV
- HL 59 14:45 – 17:45 POT 251
Nitrides: Preparation and Characterisation II
- HL 60 15:00 – 18:30 ZEU 260
Organic Electronics and Photovoltaics IV: OPV
- HL 61 15:00 – 18:00 TRE Ma
Plasmonics and Nanooptics VII: Applications
and Other Aspects
- HL 62 15:00 – 18:15 GER 38
Electronic-Structure Theory: New Concepts
and Developments in Density Functional
Theory and Beyond – V
- HL 63 15:00 – 19:00 P1A
Poster: Quantum Dots and Optics
- HL 64 15:00 – 19:00 P1C
Poster: Photovoltaics and Optics

Crystallography Division (KR)

Sessions

- KR 2 09:30 – 11:30 MER 02
X-Ray Imaging, Holography, Ptychography and
Tomography (with MI)
- KR 3 18:00 – 20:00 P4
Crystallography – poster session

Magnetism Division (MA)

Invited Talks

- MA 32.1 09:30 – 10:00 HSZ 01
Collective modes in magnonic vortex crystals
•*Guido Meier*
- MA 32.2 10:00 – 10:30 HSZ 01
Stability of interfacial Skyrmions, Solitons and Bound Monopoles: How to store Energy in topological magnetic Quasiparticles.
•*Elena Vedmedenko*
- MA 32.3 10:30 – 11:00 HSZ 01
Exploring the statistical physics of frustrated spin systems with artificial spin ice
•*Ian Gilbert, Yuyang Lao, Sheng Zhang, Gia-Wei Chern, Robert Ilic, Daniel Pierce, Cristiano Nisoli, John Unguris, Peter Schiffer*
- MA 32.4 11:15 – 11:45 HSZ 01
Skyrmions in [Pt/Co/Ir] multilayers at room temperature
•*Katharina Zeissler, Simone Finizio, Jörg Raabe, Michal Mruczkiewicz, Philippa Shepley, Thomas Moore, Gavin Burnell, Christopher Marrows*
- MA 32.5 11:45 – 12:15 HSZ 01
Artificial magnets as model systems: from the fragmentation of magnetization to the seminal square ice model
•*Benjamin Canals, Yann Perrin, Ioan Chioar, Nicolas Rougemaille*
- MA 45.1 15:45 – 16:15 HSZ 04
Manipulating Room Temperature Magnetic Skyrmions
•*Axel Hoffmann*
- MA 45.2 16:15 – 16:45 HSZ 04
Spin wave caustics and channelling in chiral spin systems
•*Joo-Von Kim*

MA 45.3 17:00 – 17:30 HSZ 04
 Snell's Law for Spin Waves
•Johannes Stigloher, Martin Decker, Helmut Koenner, Kenji Tanabe, Takahiro Moriyama, Takuya Taniguchi, Hiroshi Hata, Marco Madami, Gianluca Gubbiotti, Kensuke Kobayashi, Teruo Ono, Christian Back

Sessions

- MA 32 09:30 – 12:15 HSZ 01
 Focus Session: Magnetic Correlations in Mesoscopic Spin Structures
- MA 33 09:30 – 13:00 HSZ 03
 Transport: Quantum Coherence and Quantum Information Systems – Experiment (jointly with MA, HL)
- MA 34 09:30 – 13:00 HSZ 04
 Spin Dynamics and Transport: Magnonics
- MA 35 09:30 – 12:45 HSZ 101
 Magnetic Particles / Clusters
- MA 36 09:30 – 12:45 HSZ 201
 Transport: Molecular Electronics and Photonics (jointly with CPP, HL, MA, O)
- MA 37 09:30 – 12:30 HSZ 401
 Micro- and Nanostructured Magnetic Materials
- MA 38 09:30 – 12:15 HSZ 403
 Electron Theory of Magnetism and Correlations
- MA 39 09:30 – 11:30 MER 02
 X-Ray Imaging, Holography, Ptychography and Tomography
- MA 40 15:00 – 15:30 HSZ 04
 Walter-Schottky-Prize Talk (PV IX)
- MA 41 15:00 – 18:00 HSZ 101
 Micromagnetism / Computational Magnetism
- MA 42 15:00 – 17:45 HSZ 204
 Transport: Topological Semimetals 2 (jointly with DS, MA, HL, O)

- MA 43 15:00 – 18:00 HSZ 401
Topological Insulators I (jointly with DS, HL, O, TT)
- MA 44 15:00 – 17:30 HSZ 403
PhD Symposium Quantum Magnets (contributed talks)
- MA 45 15:45 – 18:00 HSZ 04
Focus Session: Magnon Transport in Metallic Spin Textures

Microprobes Division (MI)

Invited Talks

- MI 4.1 09:30 – 10:00 MER 02
X-ray Microscopy: Imaging the Chemistry Inside
•*Christian G. Schroer*
- MI 5.3 12:00 – 12:30 MER 02
NanoFrazor Lithography – Revolutionizing nanofabrication
•*Zhengming Wu, Colin Rawlings, Simon Bonanni, Tero Kulmala, Heiko Wolf, Urs Duerig, Armin W. Knoll, Martin Spieser, Philip Paul, Felix Holzner*

Sessions

- MI 4 09:30 – 11:30 MER 02
X-Ray Imaging, Holography, Ptychography and Tomography
- MI 5 11:30 – 13:15 MER 02
Session on Nanostructuring Beyond Conventional Lithography
- MI 6 15:00 – 17:45 HSZ 02
Symposium Nanostructuring Beyond Conventional Lithography (MI with DS, DF, HL, MM and VA)
- MI 7 18:00 – 20:00 P4
Poster: Microanalysis and Microscopy

Metal and Material Physics Division (MM)

Invited Talks, Topical Talks

- MM 36.1 09:30 – 10:00 BAR 205
Theory Driven Data Driven Design for Structural Metals
•*William A. Curtin*
- MM 37.1 10:15 – 10:45 BAR 205
Data-driven theory-guided materials design containing scale-bridging concepts
•*Martin Friák, Stefanie Sandlöbes, Zongrui Pei, David Holec, Mojmír Šob, Jörg Neugebauer, Dierk Raabe*
- MM 42.1 12:00 – 12:30 BAR 205
Generating and assessing data from combinatorial and high-throughput experiments for the design of new materials
•*Alfred Ludwig*
- MM 44.1 11:30 – 12:00 IFW B
Manipulating interfaces in nanoporous metals: Towards robust nanostructured materials with novel functionalities
•*Nadiia Mameka*
- MM 45.1 15:00 – 15:30 BAR 205
Diffusion in liquid metals and alloys
•*Florian Kargl*
- MM 47.1 15:45 – 16:15 BAR 205
Finite-temperature simulations of materials properties for data-driven materials design
•*Igor Abrikosov*
- MM 48.1 15:45 – 16:15 IFW A
Plastic deformation in amorphous solids: The role of elasticity and spatio-temporal correlations of fluctuations
•*Fathollah Varnik, Muhammad Hassani*
- MM 53.1 18:30 – 19:00 BAR 205
Small scale deformation behavior of high performance materials – Advanced mechanical testing meets high end microstructure Characterisation

•Verena Maier-Kiener, Irmgard Weißensteiner,
Benjamin Schuh, Anton Hohenwarter, Helmut
Clemens

Sessions

- MM 36 09:30 – 10:00 BAR 205
Invited talk Curtin
- MM 37 10:15 – 11:45 BAR 205
Topical session: Data driven materials design
– defect engineering
- MM 38 10:15 – 11:30 IFW A
SYLI: Symposium Interfacial Challenges in
Solid-State Li Ion Batteries – defects, struc-
ture and thermodynamics
- MM 39 10:15 – 11:15 IFW B
Topical session: Interface-Controlled Mi-
crostructures: Mechanical Properties and
Mechano-Chemical Coupling – Structure and
deformation III
- MM 40 10:15 – 11:15 IFW D
Transport III – thermal transport
- MM 41 10:30 – 13:00 GER 38
Electronic Structure Theory: New Concepts
and Developments in Density Functional
Theory and Beyond – IV
- MM 42 12:00 – 13:15 BAR 205
Topical session: Data driven materials design
– high through-put
- MM 43 11:45 – 12:45 IFW A
SYLI: Symposium Interfacial Challenges in
Solid-State Li Ion Batteries – hybrid and struc-
tured electrolytes
- MM 44 11:30 – 13:15 IFW B
Topical session: Interface-Controlled Mi-
crostructures: Mechanical Properties and
Mechano-Chemical Coupling – Nano-porous
materials
- MM 45 15:00 – 15:30 BAR 205
Invited talk Kargl

- MM 46 15:00 – 18:15 GER 38
Electronic Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – V
- MM 47 15:45 – 17:00 BAR 205
Topical session: Data driven materials design – ab initio materials design
- MM 48 15:45 – 17:15 IFW A
Topical session: Dynamics, relaxation and deformation in deeply supercooled metallic liquids and glasses III – plasticity and heterogeneities
- MM 49 15:45 – 16:45 IFW B
Microstructure and Phase Transformations – shape memory alloys
- MM 50 15:45 – 16:45 IFW D
SYLI: Symposium Interfacial Challenges in Solid-State Li Ion Batteries – Structure – property relationships II
- MM 51 17:15 – 18:00 BAR 205
Topical session: Data driven materials design – databases
- MM 52 17:00 – 18:00 IFW B
Microstructure and Phase Transformations – phase stability
- MM 53 18:30 – 19:00 BAR 205
Invited talk Maier-Kiener
- 19:30 – 20:30 BAR 205
Annual General Meeting of the Metal and Material Physics Division

Surface Science Division (O)

Invited Talks

- O 66.1 09:30 – 10:15 TRE Phy
Probing catalytic surface reactions in real time
•*Anders Nilsson*

- O 68.1 10:30 – 11:00 TRE Phy
Electronic orders in light-driven materials
•*Philipp Werner, Yuta Murakami, Hugo Strand, Shintaro Hoshino, Martin Eckstein*
- O 68.2 11:00 – 11:30 TRE Phy
Pump/probe photoemission spectroscopy in charge density wave insulators
•*James Freericks*
- O 68.3 11:30 – 12:00 TRE Phy
Controlling magnetism and pairing in a periodically driven Hubbard model
•*Stephen Clark, Jonathan Coulthard, Juan Jose Mendoza-Arenas, Martin Eckstein, Dieter Jaksch, Andrea Cavalleri*
- O 68.4 12:00 – 12:30 TRE Phy
Ultrafast Terahertz and XUV ARPES Probes of Quantum Materials Dynamics
•*Robert A. Kaindl*
- O 68.5 12:30 – 13:00 TRE Phy
Ultrafast spin interactions revealed with terahertz radiation
•*Tobias Kampfrath*
- O 71.1 10:30 – 11:00 GER 38
Electronic excitations in 2D materials and heterostructures
•*Kristian Sommer Thygesen*
- O 77.1 15:00 – 15:30 WIL A317
Carbon Nanomembranes (CNM): 2D Materials Beyond Graphene
•*Armin Götzhäuser*
- O 79.1 15:00 – 15:30 WIL C307
Sensing the Quantum Limit in Scanning Tunneling Spectroscopy: From the Josephson Effect to Quantum Tunneling
•*Christian R. Ast*

Sessions

- O 66 09:30 – 10:15 TRE Phy
Overview Talk: Anders Nilsson

- 0 67 10:15 – 11:30 IFW A
SYLI: Symposium Interfacial Challenges in Solid-State Li Ion Batteries – defects, structure and thermodynamics
- 0 68 10:30 – 13:00 TRE Phy
Focus Session: Non-equilibrium Dynamics in Light-driven Materials: Theory Meets Experiment
- 0 69 10:30 – 12:30 TRE Ma
Plasmonics and Nanooptics VI: Light-Matter Interactions and Characterisation
- 0 70 10:30 – 13:00 WIL A317
2D Materials Beyond Graphene III
- 0 71 10:30 – 13:00 GER 38
Electronic Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – IV
- 0 72 10:30 – 12:45 WIL C107
Oxide and Insulator Surfaces: Adsorption I
- 0 73 10:30 – 13:00 REC/PHY C213
Nanostructures at Surfaces: Metals, Oxides and Semiconductors III
- 0 74 11:45 – 12:45 IFW A
SYLI: Symposium Interfacial Challenges in Solid-State Li Ion Batteries – hybrid and structured electrolytes
- 0 75 15:00 – 18:45 TRE Phy
Ultrafast Electron and Spin Dynamics
- 0 76 15:00 – 18:00 TRE Ma
Plasmonics and Nanooptics VII: Applications and Other Aspects
- 0 77 15:00 – 17:45 WIL A317
2D Materials Beyond Graphene IV
- 0 78 15:00 – 18:15 GER 38
Electronic Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – V

- O 79 15:00 – 18:15 WIL C307
Electronic Structure of Surfaces: Spectroscopy, Surface States I
- O 80 15:45 – 16:45 IFW D
SYLI: Symposium Interfacial Challenges in Solid-State Li Ion Batteries – Structure – property relationships II
- O 81 16:00 – 18:30 WIL C107
Oxide and Insulator Surfaces: Adsorption II
- O 82 16:00 – 18:30 REC/PHY C213
Nanostructures at Surfaces: Graphene and Other Aspects

Physics of Socio-economic Systems Division (SOE)

Sessions

- SOE 13 09:30 – 12:15 HSZ 02
Symposium SYCM: Physics of Collective Mobility (SOE / DY / BP / jDPG)
- SOE 14 15:00 – 19:15 ZEU 160
Focus: The Physics of Power-Grids – Fluctuations, Synchronization and Network Structures (joint session DY / SOE)
- SOE 15 15:00 – 18:15 GÖR 226
Focus Session: Cities as complex systems

Low Temperature Physics Division (TT)

Invited Talks

- TT 46.1 15:00 – 15:30 HSZ 03
Many-Body Localization and Glassiness in Quantum Spin Systems
•*Antonello Scardicchio*
- TT 46.2 15:30 – 16:00 HSZ 03
Exploring Many-Body Localization in Two Dimensions
•*Christian Gross*

- TT 46.3 16:00 – 16:30 HSZ 03
Floquet Engineering and Control of Topology
in Solid State Systems
•*Takashi Oka, Leda Bucciantini, Sthitadhi Roy,
Sota Kitamura*
- TT 46.4 16:45 – 17:15 HSZ 03
Hydrodynamic Regimes of Electron Transport
•*Andrew Mackenzie*
- TT 46.5 17:15 – 17:45 HSZ 03
Dynamical Phase Transitions
•*Stefan Kehrein*
- TT 47.1 15:00 – 15:30 HSZ 103
Interplay between CDW and Superconductivity:
Effect of Pressure
•*Matthieu Le Tacon*
- Sessions**
- TT 38 09:30 – 13:00 HSZ 03
Transport: Quantum Coherence and Quantum
Information Systems – Experiment (jointly
with MA, HL)
- TT 39 09:30 – 13:15 HSZ 103
Superconductivity: (General) Theory
- TT 40 09:30 – 12:45 HSZ 201
Transport: Molecular Electronics and Photonics
(jointly with CPP, HL, MA, O)
- TT 41 09:30 – 13:00 HSZ 204
Correlated Electrons: Quantum-Critical Phenomena
- TT 42 09:30 – 13:00 HSZ 304
Correlated Electrons: Frustrated Magnets –
Strong Spin-Orbit Coupling 2
- TT 43 09:30 – 13:15 POT 51
Two-Dimensional Materials IV (joint session
DS, HL, TT, organised by HL)
- TT 44 10:30 – 13:00 TRE Phy
Focus Session: Non-Equilibrium Dynamics in
Light-Driven Materials: Theory Meets Experiment
(joint session O, TT, organised by O)

- TT 45 10:30 – 13:00 GER 38
Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – IV (joint session DS, HL, MA, MM, O, TT, organised by O)
- TT 46 15:00 – 17:45 HSZ 03
Focus Session: Collective Quantum Dynamics: From Fundamentals to New Phenomena
- TT 47 15:00 – 18:00 HSZ 103
Superconductivity: Properties and Electronic Structure 2
- TT 48 15:00 – 17:45 HSZ 201
Superconductivity: Tunnelling, Josephson Junctions, SQUIDS 2
- TT 49 15:00 – 17:45 HSZ 204
Transport: Topological Semimetals 2 (jointly with DS, MA, HL, O)
- TT 50 15:00 – 18:00 HSZ 304
Correlated Electrons: Frustrated Magnets – Low-Dimensional Systems
- TT 51 15:00 – 18:00 HSZ 401
Topological Insulators (joint session DS, HL, MA, O, TT, organised by MA)
- TT 52 15:00 – 18:15 GER 38
Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – V (joint session DS, HL, MA, MM, O, TT, organised by O)
- TT 53 15:00 – 19:00 P2-OG2
Poster Session: Superconductivity 1
- TT 54 15:00 – 19:00 P2-OG3
Poster Session: Cryotechnique
- TT 55 15:00 – 19:00 P2-OG3
Poster Session: Superconductivity 2
- TT 56 15:00 – 19:00 P2-OG4
Poster Session: Low-Dimensional Systems

Working Group on Accelerator physics (AKBP)

Sessions

- AKBP 4 09:30 – 12:00 MOL 213
Radiofrequency and Beam Dynamics
- AKBP 5 15:00 – 17:45 MOL 213
Hadron and Electron Accelerators
- AKBP 6 18:30 – 20:00 P4
Poster Session

Working Group „Young DPG“ (AGjDPG)

Tutorials

- AGjDPG 4.1 09:30 – 12:30 HSZ 301
Workshop on crafting the story of a competi-
tive grant application.
•*Tobias Klose*
- AGjDPG 5.1 15:00 – 18:00 HSZ 301
Projekt Startup
•*Marco Rösler*

Sessions

- AGjDPG 4 09:30 – 12:30 HSZ 301
Workshop on crafting the story of a competi-
tive grant application
- AGjDPG 5 15:00 – 18:00 HSZ 301
Projekt Startup

Physik-LehrerInnen-Tage (LT)

Workshop

- LT 1.1 15:15 – 17:15 REC/PHY B214
Tablets und Inklusion – Unterstützung von
Schülerexperimenten durch Tablets im inklu-
siven Physikunterricht
•*Andre Bresges*

Session

- LT 1 15:15 – 17:15 REC/PHY B214
Digitale Medien und Inklusion

Job Market

13:15 – 14:15 HSZ 405

Forschungszentrum Jülich GmbH – „Karriere-
ewege in der Physik – Forschungszentrum
Jülich“

Exhibition on Scientific Instruments and Literature

09:00 – 17:00 Foyer HSZ, Tents A/B

Thursday, March 23, 2017

Plenary Talks

- PV XIX 08:30 – 09:15 HSZ 01
Model systems in heterogeneous catalysis at the atomic level
•*Hans-Joachim Freund*
- PV XXIII 14:00 – 14:45 HSZ 01
Bottom-up fabrication of graphene nanoribbons: From molecules to devices
•*Roman Fasel*
- PV XXIV 14:00 – 14:45 HSZ 02
Novel Phase Change Materials by Design: The Mystery of Resonance Bonding
•*Matthias Wuttig*

Prize Talks

- PV XX 13:15 – 13:45 HSZ 01
Exotic Spin-Orbital Order in Transition Metal Oxides
•*Andrzej M. Oles (Laureate of the Smoluchowski-Warburg-Prize 2017)*
- PV XXII 13:15 – 13:45 HSZ 03
Controlling Light Fields with Mie-Resonant Dielectric Metasurfaces
•*Isabelle Staude (Laureate of the Hertha-Sponer-Prize 2017)*

Lunch Talk

- PV XXI 13:15 – 13:45 HSZ 02
Berufsbild Physiker(in) ausserhalb universitärer und industrieller Forschung
•*Udo Weigelt*

Symposium Optics and Light-Matter Interaction with Excitons in 2D Materials (SYLM)

Invited Talks

- SYLM 1.1 15:00 – 15:30 HSZ 02
Light matter interaction in TMDs and their heterostructures
•*Ursula Wurstbauer*

- SYLM 1.2 15:30 – 16:00 HSZ 02
Quantum optics with deterministically positioned quantum emitters in a two-dimensional semiconductor
•*Brian Gerardot*
- SYLM 1.3 16:00 – 16:30 HSZ 02
Light-matter coupling with atomic monolayers in microcavities
•*Christian Schneider*
- SYLM 1.4 17:00 – 17:30 HSZ 02
Properties of Synthetic 2D Materials and Heterostructures
•*Joshua Robinson*
- SYLM 1.5 17:30 – 18:00 HSZ 02
Exciton spectroscopy in transition metal dichalcogenide monolayers and van der Waals heterostructures
•*Bernhard Urbaszek*
- SYLM 1.6 18:00 – 18:30 HSZ 02
Strain-induced single-photon emitters in layered semiconductors
•*Rudolf Bratschitsch*

Session

- SYLM 1 15:00 – 18:30 HSZ 02
Optics and Light-Matter Interaction with Excitons in 2D Materials (SYLM)

Symposium Quantum Optics on the Nanoscale: From Fundamental Physics to Quantum Technologies (SYQO)

Invited Talks

- SYQO 1.1 09:30 – 10:00 HSZ 02
Quantum dot based quantum technologies
•*Pascale Senellart*
- SYQO 1.2 10:00 – 10:30 HSZ 02
Controlled strong coupling of a single quantum dot to a plasmonic nanoresonator at room temperature
Heiko Groß, Joachim M. Hamm, Tommaso Tuffarelli, Ortwin Hess, •Bert Hecht

SYQO 1.3 10:30 – 11:00 HSZ 02
High efficiency and directional emission from
a nanoscale light source in a planar optical
antenna
•*Mario Agio*

SYQO 1.4 11:30 – 12:00 HSZ 02
Tailoring quantum states by measurement
•*Jörg Wrachtrup*

SYQO 1.5 12:00 – 12:30 HSZ 02
Quantum optics and quantum control at the
nanoscale with surface plasmon polaritons
•*Stéphane Guérin*

Session

SYQO 1 09:30 – 12:30 HSZ 02
Quantum Optics on the Nanoscale: From Fun-
damental Physics to Quantum Technologies

Biological Physics Division (BP)

Invited Talks

BP 47.1 09:30 – 10:00 ZEU 250
Mechanotransduction in Collective Cell Migra-
tion
•*Joachim Spatz*

BP 48.1 09:30 – 10:00 HÜL 386
Shaping membranes: ENTH activity as a func-
tion of membrane tension
•*Claudia Steinem, Martin Gleisner, Benjamin
Kroppen, Nelli Teske, Andreas Janshoff, Michael
Meinecke*

BP 49.1 09:30 – 10:00 SCH A251
The Origin of Cellular Life
•*Jack W Szostak*

BP 55.1 15:00 – 15:30 HÜL 386
Network heterogeneity regulates steering in
actin-based motility
•*Laurent Blanchoin*

- BP 56.1 15:00 – 15:30 SCH A251
Biophysical Studies of Amyloid Formation and Its Inhibition
•*Sheena Radford*
- Sessions**
- BP 46 09:30 – 13:00 HÜL 186
Active Matter II (Joint Session DY/BP/ CPP)
- BP 47 09:30 – 10:45 ZEU 250
Cell Adhesion
- BP 48 09:30 – 13:00 HÜL 386
Membranes and Vesicles II
- BP 49 09:30 – 13:00 SCH A251
Physics of the Genesis of Life – Focus Session organised by Moritz Kreysing and Dieter Braun
- BP 50 09:30 – 13:00 GÖR 226
Networks: From Topology to Dynamics I (Joint Session SOE/DY/BP)
- BP 51 11:15 – 12:45 ZEU 250
Microswimmers III (Joint Session BP/DY)
- BP 52 15:00 – 18:00 ZEU 260
Topological Problems in the Physics of Polymers, Biopolymers and Fibers I (Joint Focus Session CPP/BP)
- BP 53 15:00 – 17:00 ZEU 118
Pattern Formation (Joint Session DY/BP)
- BP 54 15:00 – 17:30 ZEU 250
Statistical Physics of Biological Systems I (Joint Session BP/DY)
- BP 55 15:00 – 17:15 HÜL 386
Cell Migration and Contraction
- BP 56 15:00 – 17:30 SCH A251
Protein Structure and Dynamics
- BP 57 15:00 – 16:15 ZEU 147
Networks: From Topology to Dynamics II (Joint Session DY/BP/SOE)

Chemical and Polymer Physics Division (CPP)

Invited Talks

- CPP 53.1 09:30 – 10:00 ZEU 222
Interplay of Order and Disorder in Self-assembled Optical Metamaterials
•*Ullrich Steiner*
- CPP 55.1 10:15 – 10:45 ZEU 222
Understanding charge transport in crystalline organic semiconductors
•*Simone Fratini, Sergio Ciuchi, Alessandro Troisi, Didier Mayou*
- CPP 55.2 10:45 – 11:15 ZEU 222
Mapping of trap densities and contact resistance in organic devices and their relation to structural disorder
•*Bert Nickel, Clemens Liewald, Simone Strohmair, Eric Glowacki, Andrey Turchanin*
- CPP 56.1 10:15 – 10:45 ZEU 260
Functional microgels: simple matter where complexity matters
•*Walter Richtering*
- CPP 58.4 11:00 – 11:30 ZEU 255
Molecular Scale Structure of Ionic Liquid Surfaces
•*Markus Mezger*
- CPP 59.1 15:00 – 15:30 ZEU 222
Charge transport modeling in disordered molecular semiconductors: from the molecule to the device
Andrea Massé, Feilong Liu, Pascal Friederich, Franz Symalla, Velimir Meded, Wolfgang Wenzel, Reinder Coehoorn, •Peter A. Bobbert
- CPP 59.2 15:30 – 16:00 ZEU 222
Charge transport in high mobility molecular semiconductors
•*Henning Sirringhaus*
- CPP 60.1 15:00 – 15:30 ZEU 260
Polymers in the cell nucleus
•*Maria Barbi, Antony Lesage, Jean-Marc Victor*

- CPP 60.6 16:45 – 17:15 ZEU 260
Knots as Stable Topological Order Parameter
for Semiflexible Polymers
•*Wolfhard Janke, Martin Marenz*

Sessions

- CPP 53 09:30 – 10:00 ZEU 222
Keynote Lecture III
- CPP 54 09:30 – 13:00 HÜL 186
Active Matter II (joint session DY/BP/ CPP,
organised by DY)
- CPP 55 10:15 – 13:00 ZEU 222
Focus: Static and Dynamic Disorder Phenom-
ena on the Transport in Organic Semiconduc-
tors I
- CPP 56 10:15 – 13:00 ZEU 260
Hydrogels and Microgels I
- CPP 57 10:15 – 13:00 ZEU 114
Thin Films, Nanostructures and Nanoparticles I
- CPP 58 10:15 – 12:45 ZEU 255
Fluids and Interfaces II
- CPP 59 15:00 – 18:00 ZEU 222
Focus: Static and Dynamic Disorder Phenom-
ena on the Transport in Organic Semiconduc-
tors II
- CPP 60 15:00 – 18:00 ZEU 260
Focus: Topological Problems in the Physics
of Polymers, Biopolymers and Fibers I (joint
session BP/ CPP, organised by CPP)
- CPP 61 15:00 – 17:00 ZEU 114
Charged Soft Matter, Ionic Liquids and Poly-
ions II
- CPP 62 15:00 – 18:15 ZEU 255
Fluids and Interfaces III
- 18:30 – 19:15 ZEU 222
Annual General Meeting
of the Chemical and Polymer Physics Division

Dielectric Solids Division (DF)

Topical Talks

- DF 17.1 09:30 – 10:00 WIL B321
Magnetic and orbital excitations in the multi-ferroic skyrmion host GaV_4S_8
Dieter Ehlers, Zhe Wang, Hans-Albrecht Krug von Nidda, Vladimir Tsurkan, Peter Lunkenheimer, Istvan Kézsmárki, Ioannis Stasinopoulos, Dirk Grundler, •Alois Loidl
- DF 17.9 12:15 – 12:45 WIL B321
Role of charged defects on conduction and dynamics of domain walls in BiFeO_3
•Tadej Rojac, Andreja Bencan, Goran Drazic, Naonori Sakamoto, Hana Ursic, Bostian Jancar, Gasper Tavcar, Maja Makarovic, Julian Walker, Barbara Malic, Dragan Damjanovic

Sessions

- DF 17 09:30 – 13:30 WIL B321
Ferroics – Domains, Domain Walls and Skyrmions IV
- DF 18 15:00 – 17:15 WIL B321
Multiferroics (DF and MA)

Thin Films Division (DS)

Topical Talks

- DS 38.1 09:30 – 10:00 CHE 89
Memristive devices for neuromorphic systems
•Martin Ziegler
- DS 38.2 10:00 – 10:30 CHE 89
Learning in Silico: neuromorphic models of long-term plasticity
•Elisabetta Chicca
- DS 38.6 11:30 – 12:00 CHE 89
Design and CMOS Co-Integration of ReRAM Devices and Crossbar Arrays for Neuromorphic Applications
•Yusuf Leblebici

- DS 38.7 12:00 – 12:30 CHE 89
Neuromorphic Memristive Systems
•*Bernabe Linares-Barranco*
- DS 40.1 15:00 – 15:30 CHE 89
Brain-inspired neurocomputing with memristive synapses
•*Daniele Ielmini*
- DS 40.2 15:30 – 16:00 CHE 89
Exploring evolutionary biology and neuromorphic computing with quantum materials
•*Shriram Ramanathan*

Sessions

- DS 37 09:30 – 13:00 HSZ 03
Focus Session on 2D Materials: Ballistic Quantum Transport in Graphene (jointly with HL, MA, TT)
- DS 38 09:30 – 13:15 CHE 89
Focussed Session: Memristive Devices for Neuronal Systems I
- DS 39 09:30 – 13:15 CHE 91
Thin Film Applications
- DS 40 15:00 – 16:45 CHE 89
Focussed Session: Memristive Devices for Neuronal Systems II
- DS 41 15:00 – 16:45 CHE 91
Layer Properties: Electrical, Optical, and Mechanical Properties II
- DS 42 15:00 – 17:45 WIL C107
Metallic Nanowires on Semiconductor Surfaces (jointly with O)
- DS 43 17:00 – 17:30 CHE 91
Quantum Optics at the Nanoscale: From Fundamental Physics to Quantum Technologies (Joint Session HL, DS, O, and TT, organised by DS)
- DS 44 17:00 – 19:00 P1C
Postersession II

Dynamics and Statistical Physics Division (DY)

Invited Talks

- DY 41.1 09:30 – 10:00 HÜL 186
Rolling, rolling, rolling – a new self-propulsion mechanism
•Falko Ziebert, Igor Kulic
- DY 42.1 09:30 – 10:00 ZEU 160
Equilibration and ensembles in coherent quantum systems
•Fabian Essler

Sessions

- DY 41 09:30 – 13:00 HÜL 186
Active Matter II (joint session DY/BP/PPP)
- DY 42 09:30 – 13:15 ZEU 160
Coherent Quantum Dynamics (joint session DY/TT)
- DY 43 09:30 – 13:15 ZEU 118
Nonlinear Dynamics, Synchronisation and Chaos
- DY 44 10:00 – 12:15 ZEU 147
Statistical Physics (general)
- DY 45 11:15 – 12:45 ZEU 250
Microswimmers (joint session BP/DY)
- DY 46 15:00 – 16:00 HÜL 186
Modelling and Data Analysis
- DY 47 15:00 – 16:30 ZEU 160
Complex Fluids and Soft Matter I (joint session DY/PPP)
- DY 48 15:00 – 17:00 ZEU 118
Pattern Formation / Reaction-Diffusion II (joint session DY/BP)
- DY 49 15:00 – 16:15 ZEU 147
Networks: From Topology to Dynamics (joint session DY/ BP/SOE)
- DY 50 15:00 – 17:30 ZEU 250
Statistical Physics of Biological Systems I
(Joint Session BP/DY)

- DY 51 16:15 – 17:00 HÜL 186
Extreme Events
- DY 52 16:30 – 17:00 ZEU 147
Chimera states: symmetry-breaking in dynamical networks (joint session DY/BP/SOE)
- DY 53 17:00 – 19:30 P1A
Posters – Active Matter
- DY 54 17:00 – 19:30 P1A
Posters – Pattern Formation, Reaction Diffusion, Chimera
- DY 55 17:00 – 19:30 P1A
Posters – Soft Matter, Glasses
- DY 56 17:00 – 19:30 P1A
Posters – Granular and Particulate Matter
- DY 57 17:00 – 19:30 P1A
Posters – Turbulence
- DY 58 17:00 – 19:30 P1A
Posters – Networks
- DY 59 17:00 – 19:30 P1A
Posters – Nonlinear General
- DY 60 17:00 – 19:30 P1A
Posters – Brownian Motion, Noise
- DY 61 17:00 – 17:00 P1A
Posters – Quantum Systems
- 19:30 – 20:30 ZEU 160
Annual General Meeting of the Dynamics and Statistical Physics Division

Semiconductor Physics Division (HL)

Invited Talks

- HL 67.5 10:45 – 11:15 POT 81
2D Quasicrystals from Semiconducting Perovskite Oxides
•*Wolf Widdra, Stefan Förster*

- HL 68.1 09:30 – 10:00 POT 51
Solar-driven photoelectrochemical water splitting and carbon dioxide reduction
•*Joel Ager*
- HL 68.4 10:30 – 11:00 POT 51
Quantum confined colloidal semiconductor nanocrystals for solar fuels
•*Frank Jäckel*
- HL 68.7 12:00 – 12:30 POT 51
Photo-electrochemistry modelling beyond idealised surfaces and the computational hydrogen electrode
•*Harald Oberhofer*
- HL 70.1 09:30 – 10:00 POT 251
Sub-nm probing of Topological insulators and Rashba systems
•*Markus Morgenstern*
- HL 75.1 14:45 – 15:15 POT 151
Spectroscopy on self-assembled quantum dots: Transport meets optics
•*Martin Geller*

Sessions

- HL 65 09:30 – 12:30 HSZ 02
Quantum Optics on the Nanoscale: From Fundamental Physics to Quantum Technologies (joined session, HL, DS, O, TT, organised by HL)
- HL 66 09:30 – 13:00 HSZ 03
Focus Session on 2D Materials: Ballistic Quantum Transport in Graphene (jointly with DY, DS, HL, MA, O)
- HL 67 09:30 – 11:15 POT 81
Perovskites, Hybrid Photovoltaics and Plasmonics
- HL 68 09:30 – 12:30 POT 51
Focus Session: Semiconductor Materials and Nanostructure for Photocatalysis
- HL 69 09:30 – 12:30 POT 151
Quantum Dots: Transport Properties I

- HL 70 09:30 – 12:45 POT 251
Topological Insulators I (joined session with TT)
- HL 71 09:30 – 11:30 POT 112
Transport Properties
- HL 72 09:30 – 11:45 POT 06
Nitrides: Devices
- HL 73 10:30 – 13:45 GER 38
Electronic-Structure Theory: New Concepts
and Developments in Density Functional
Theory and Beyond – VI
- HL 74 12:00 – 13:15 POT 06
Group IV: Si/Ge/SiC
- HL 75 14:45 – 16:15 POT 151
Quantum Dots: Transport Properties II
- HL 76 14:45 – 16:45 POT 251
Topological Insulators II (joined session with TT)
- HL 77 14:45 – 16:30 POT 112
Transport in High Magnetic Fields
- HL 78 15:00 – 18:30 HSZ 02
Optics and Light-Matter Interaction with Exci-
tons in 2D Materials (SYLM) (joined session
DS, DY, HL, TT, organised by HL)
- HL 79 15:00 – 19:00 P2-OG3
Poster: New Materials
- HL 80 16:00 – 18:30 GER 38
Electronic-Structure Theory: New Concepts
and Developments in Density Functional
Theory and Beyond – VII
- 18:00 – 19:00 POT 81
Annual General Meeting
of the Semiconductor Physics Division

Magnetism Division (MA)

Invited Talks

- MA 53.1 15:00 – 15:30 HSZ 01
Topological phases for magnons and electrons in the skyrmion lattice
•*Joaquín Fernandez-Rossier*
- MA 53.2 15:30 – 16:00 HSZ 01
Thermal Hall Effect of Spin Excitations in Quantum Magnets
•*Max Hirschberger, Robin Chisnell, Jason W. Krizan, Young S. Lee, Robert J. Cava, N. Phuan Ong*
- MA 53.3 16:15 – 16:45 HSZ 01
Magnon-mediated Dzyaloshinskii-Moriya torques, heat pumping, and spin Nernst effect
•*Alexey Kovalev*
- MA 53.4 16:45 – 17:15 HSZ 01
Magnon companion pieces to electronic topological materials
•*Alexander Mook, Jürgen Henk, Ingrid Mertig*
- MA 53.5 17:15 – 17:45 HSZ 01
Nonreciprocal propagation of elementary excitations in noncentrosymmetric magnets
•*Yoshinori Onose*

Sessions

- MA 46 09:30 – 13:00 HSZ 03
Focus Session on 2D Materials: Ballistic Quantum Transport in Graphene (jointly with DY, DS, HL, MA, O)
- MA 47 09:30 – 13:15 HSZ 04
Spin Hall Effects and Skyrmions I
- MA 48 09:30 – 13:15 HSZ 101
Spin Dynamics and Transport: Spin Excitations and Spin Torque Phenomena
- MA 49 09:30 – 12:30 HSZ 401
Surface Magnetism 2 (Joint Session with O)
- MA 50 09:30 – 12:00 HSZ 403
Spin-caloric Transport (jointly with TT)

- MA 51 09:30 – 12:45 POT 251
Topological Insulators I (joined session with TT)
- MA 52 14:45 – 16:45 POT 251
Topological Insulators II (joined session with TT)
- MA 53 15:00 – 17:45 HSZ 01
Focus Session: Topology meets Magnetism
- MA 54 15:00 – 18:00 HSZ 04
Spin Hall Effects and Skyrmions II
- MA 55 15:00 – 18:00 HSZ 101
Thin Films: Magnetic Anisotropy
- MA 56 15:00 – 18:00 HSZ 403
Bulk Materials: Soft and hard permanent magnets
- MA 57 15:00 – 17:15 WIL B321
Multiferroics (DF and MA)
- 18:00 – 19:00 HSZ 04
Annual General Meeting
of the Magnetism Division

Microprobes Division (MI)

Sessions

- MI 8 10:00 – 11:00 MER 02
Scanning Probe Microscopy (SPM)
- MI 9 11:15 – 11:45 MER 02
Progress of Instrumentation and Methods for
the Surface Analysis (PEEM, LEED)
- MI 10 12:00 – 12:30 MER 02
Positron Annihilation Spectroscopy (PALS)
- MI 11 15:00 – 16:00 MER 02
Annual General Meeting and Celebration of the
50th Anniversary of the Microprobes Division

Metal and Material Physics Division (MM)

Invited Talks, Topical Talks

- MM 54.1 09:30 – 10:00 BAR 205
Revealing the mechanism of Z-phase formation in 12% Cr ferritic-martensitic steels
•*Daniel F. Urban, Christian Elsässer*
- MM 56.1 10:15 – 10:45 IFW A
Anomalous atomic motion in metallic glasses revealed by coherent X-rays
•*Beatrice Ruta*
- MM 61.1 11:45 – 12:15 IFW A
Towards a dissipative atomic-scale theory of the dynamical response of metallic glasses
•*Alessio Zaccone*
- MM 64.1 15:00 – 15:30 BAR 205
Microstructural refinement, rate sensitivity and structural stability of Cu-X solid solutions after severe plastic deformation
•*Karsten Durst*
- MM 66.1 15:45 – 16:15 IFW A
Molecular Dynamics Simulation On The Avalanche Dynamics and the microstructural evolution in the so called elastic region of the Cu₅₀Zr₅₀
•*Alexandra Lagogianni, Marius Milnikel, Konrad Samwer*

Sessions

- MM 54 09:30 – 10:00 BAR 205
Invited talk Urban
- MM 55 10:15 – 11:45 BAR 205
Topical session: Data driven materials design – structure maps
- MM 56 10:15 – 11:30 IFW A
Topical session: Dynamics, relaxation and deformation in deeply supercooled metallic liquids and glasses – kinetic transitions
- MM 57 10:15 – 11:15 IFW B
Microstructure and Phase Transformations – transformation kinetics

- MM 58 10:15 – 11:45 IFW D
Nanomaterials I
- MM 59 10:30 – 13:45 GER 38
Electronic Structure Theory: New Concepts
and Developments in Density Functional
Theory and Beyond – VI
- MM 60 12:00 – 13:15 BAR 205
Topical session: Data driven materials design
– machine learning
- MM 61 11:45 – 13:15 IFW A
Topical session: Dynamics, relaxation and
deformation in deeply supercooled metallic
liquids and glasses V – dynamical response
- MM 62 11:45 – 13:00 IFW B
Microstructure and Phase Transformations –
nucleation kinetics and pressure effects
- MM 63 12:00 – 13:30 IFW D
Nanomaterials II
- MM 64 15:00 – 15:30 BAR 205
Invited talk Durst
- MM 65 15:45 – 16:30 BAR 205
Topical session: Data driven materials design
– uncertainty approaches
- MM 66 15:45 – 17:15 IFW A
Topical session: Dynamics, relaxation and
deformation in deeply supercooled metallic
liquids and glasses VI – mechanical proper-
ties
- MM 67 15:45 – 16:45 IFW D
Mechanical Properties I
- MM 68 16:00 – 18:30 GER 38
Electronic Structure Theory: New Concepts
and Developments in Density Functional
Theory and Beyond – VII
- MM 69 17:30 – 19:00 IFW A
Topical session: Dynamics, relaxation and
deformation in deeply supercooled metallic
liquids and glasses VII – thermodynamics and
structure

MM 70 17:00 – 18:15 IFW D
Mechanical Properties II

Surface Science Division (O)

Invited Talks

- O 83.1 09:30 – 10:15 TRE Phy
Molecular adsorption on oxide surfaces: Insights from first-principles calculations
•*Bernd Meyer*
- O 87.1 10:30 – 11:00 WIL C307
Structure and redox dynamics of ultrathin ceria films and nanostructures
•*Jan Ingo Flege*
- O 93.1 15:00 – 15:30 TRE Phy
Oxygen and Oxide Cluster Functionalized Graphene for Model Catalytic Studies
•*Zdenek Dohnalek*
- O 93.2 15:30 – 16:00 TRE Phy
Oxide model interfaces from ultrahigh vacuum conditions to liquid environments
•*Jörg Libuda*
- O 95.1 15:00 – 15:30 WIL A317
Visualizing surface X-ray diffraction: the active phase of CO oxidation model catalysts
•*Johan Gustafson*
- O 97.1 15:00 – 15:30 REC/PHY C213
The challenge of atomic resolution in liquid and ambient conditions with AFM
•*Alfred J. Weymouth*
- O 97.2 15:30 – 16:00 REC/PHY C213
Single-molecule magnets: The influence of the surface
•*Katharina Diller*
- O 98.1 15:00 – 15:30 WIL C307
Spin-charge transport phenomena on the atomic scale
•*Christoph Tegenkamp*

- O 98.2 15:30 – 16:00 WIL C307
Electronic properties of functional organic materials at surfaces
•*Petra Tege*
- O 99.1 16:00 – 16:30 GER 38
Spectacular success of DFT in predicting novel topological phases
•*Arun Bansil*
- O 101.1 17:00 – 17:30 TRE Phy
Density Functional Theory in Surface Science and Catalysis – Successes and Limitations
•*Felix Studt*

Sessions

- O 83 09:30 – 10:15 TRE Phy
Overview Talk: Bernd Meyer
- O 84 09:30 – 12:30 POT 51
Focus Session: Semiconductor Materials and Nanostructure for Photocatalysis
- O 85 10:15 – 13:00 ZEU 114
Thin Films, Nanostructures and Nanoparticles I
- O 86 10:30 – 13:00 WIL A317
Graphene: Electronic Properties, Structure and Substrate Interaction I
- O 87 10:30 – 13:00 WIL C307
Metal Substrates: Structure, Epitaxy and Growth
- O 88 10:30 – 13:45 GER 38
Electronic Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – VI
- O 89 10:30 – 12:45 TRE Phy
Oxide and Insulator Surfaces: Adsorption III
- O 90 10:30 – 12:45 WIL C107
Surface Dynamics: Experiments
- O 91 10:30 – 13:00 REC/PHY C213
Nanostructures at Surfaces: Molecular Systems I

- O 92 10:30 – 13:00 TRE Ma
Gerhard Ertl Young Investigator Award
- O 93 15:00 – 17:00 TRE Phy
Heterogeneous Catalysis: Experiment
- O 94 15:00 – 18:15 TRE Ma
Graphene: Electronic Properties, Structure and
Substrate Interaction II
- O 95 15:00 – 18:15 WIL A317
Metal Substrates: Adsorption of Atoms and
Inorganic Molecules
- O 96 15:00 – 17:45 WIL C107
Metallic Nanowires on Semiconductor Sur-
faces
- O 97 15:00 – 18:30 REC/PHY C213
Nanostructures at Surfaces: Molecular Sys-
tems II
- O 98 15:00 – 16:00 WIL C307
Nanostructures at Surfaces: 1D Systems
- O 99 16:00 – 18:30 GER 38
Electronic Structure Theory: New Concepts
and Developments in Density Functional
Theory and Beyond – VII
- O 100 16:00 – 18:30 WIL C307
Electronic Structure of Surfaces: Spectros-
copy, Surface States II
- O 101 17:00 – 18:30 TRE Phy
Heterogeneous Catalysis: Theory I
- O 102 17:45 – 18:30 WIL C107
New Methods: Theory
- O 103 19:00 – 19:30 HSZ 01
Annual General Meeting of the Surface Sci-
ence Division
- O 104 19:30 – 20:30 HSZ 01
Post-Deadline Session

Physics of Socio-economic Systems Division (SOE)

Sessions

- SOE 16 09:30 – 13:00 GÖR 226
Networks (joint session SOE / DY / BP)
- SOE 17 15:00 – 16:15 ZEU 147
Networks: From Topology to Dynamics (joint session DY/ BP/SOE)
- SOE 18 15:00 – 16:15 GÖR 226
Economic Models II
- SOE 19 16:15 – 17:00 GÖR 226
Financial Markets and Risk Management II
- SOE 20 16:30 – 17:00 ZEU 147
Chimera states: symmetry-breaking in dynamical networks (joint session DY/BP/SOE)
- SOE 21 17:00 – 18:30 GÖR 226
Social Systems II

Low Temperature Physics Division (TT)

Invited Talks

- TT 58.1 09:30 – 10:00 HSZ 03
Kondo Screening of a Vacancy Magnetic Moment in Graphene
•*Eva Y. Andrei*
- TT 58.2 10:00 – 10:30 HSZ 03
Higher-Than-Ballistic Conduction in Viscous Electron Fluids
•*Leonid Levitov*
- TT 58.3 10:30 – 11:00 HSZ 03
Electron Optics in Ballistic Graphene
•*Ming-Hao Liu*
- TT 58.4 11:15 – 11:45 HSZ 03
Ballistic Transport in Mesoscopic Graphene Devices
•*Christoph Stampfer*

- TT 58.5 11:45 – 12:15 HSZ 03
Interaction-Induced Conductance from Zero Modes in a Magnetic Graphene Waveguide
•*Alex Zazunov*
- TT 62.7 11:15 – 11:45 HSZ 304
Optical Control of Complex Quantum Materials
•*Stefan Kaiser*
- TT 69.1 15:00 – 15:30 HSZ 03
The Antiferromagnet YbRh_2Si_2 - a New Heavy-Fermion Superconductor
•*Frank Steglich*
- TT 69.2 15:30 – 16:00 HSZ 03
Quantum Criticality in Cuprate and Iron Based Superconductors
•*Antony Carrington*
- TT 69.3 16:00 – 16:30 HSZ 03
Evolution of the Fermi Surface of the Nematic Superconductors $\text{FeSe}_{1-x}\text{S}_x$
•*Amalia Coldea*
- TT 69.4 16:45 – 17:15 HSZ 03
Superconductivity near Structural Instabilities
•*Malte Grosche*
- TT 69.5 17:15 – 17:45 HSZ 03
An Empirical Approach to the 2 mK Transition in YbRh_2Si_2
•*Christoph Geibel, Manuel Brando, Alexander Steppke*
- TT 70.1 15:00 – 15:30 HSZ 103
New Developments in the Theory of STM on Unconventional Superconductors
•*Andreas Kreisel*

Sessions

- TT 57 09:30 – 12:30 HSZ 02
SYQO: Quantum Optics on the Nanoscale: From Fundamental Physics to Quantum Technologies (joint symposium HL,DS,O,TT, organised by HL)

- TT 58 09:30 – 13:00 HSZ 03
Focus Session on 2D Materials: Ballistic Quantum Transport in Graphene (jointly with DY, DS, HL, MA, O)
- TT 59 09:30 – 12:15 HSZ 103
Superconductivity: Fe-based Superconductors – FeSe and others
- TT 60 09:30 – 13:15 HSZ 201
Correlated Electrons: f-Electron Systems
- TT 61 09:30 – 13:00 HSZ 204
Correlated Electrons: (General) Theory 2
- TT 62 09:30 – 13:00 HSZ 304
Correlated Electrons: Nonequilibrium Quantum Many-Body Systems 1
- TT 63 09:30 – 12:00 HSZ 403
Spin-caloric Transport (joint session MA, TT, organised by MA)
- TT 64 09:30 – 13:15 ZEU 160
Coherent Quantum Dynamics (joint session DY, TT, organised by DY)
- TT 65 09:30 – 12:45 POT 251
Topological Insulators I (joint session DS, HL, MA, O, TT, organised by HL)
- TT 66 10:30 – 13:00 WIL A317
Graphene: Electronic Properties, Structure and Substrate Interaction I (joint session DY, DS, HL, MA, O, TT, organised by O)
- TT 67 14:45 – 16:45 POT 251
Topological Insulators II (joint session DS, HL, MA, O, TT, organised by HL)
- TT 68 15:00 – 18:30 HSZ 02
SYLM: Optics and Light-Matter Interaction with Excitons in 2D Materials (joint symposium DS, DY, HL, TT, organised by HL)
- TT 69 15:00 – 18:15 HSZ 03
Focus Session: Superconductivity in the Vicinity of a Quantum Critical Point

- TT 70 15:00 – 18:15 HSZ 103
Superconductivity: Fe-based Superconductors – Theory
- TT 71 15:00 – 18:00 HSZ 201
Superconductivity: Cryodetectors and Cryotechnique
- TT 72 15:00 – 18:30 HSZ 204
Correlated Electrons: Frustrated Magnets – General 2
- TT 73 15:00 – 18:00 HSZ 304
Correlated Electrons: Nonequilibrium Quantum Many-Body Systems 2
- TT 74 15:00 – 18:15 TRE Ma
Graphene: Electronic Properties, Structure and Substrate Interaction II (joint session DY, DS, HL, MA, O, TT, organised by O)
- TT 75 15:00 – 19:00 P2-EG
Poster Session: Transport 1
- TT 76 15:00 – 19:00 P2-OG1
Poster Session: Transport 2
- TT 77 16:00 – 18:30 GER 38
Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond – VI (joint session DS, HL, MA, MM, O, TT, organised by O)
- TT 78 17:00 – 17:30 CHE 91
Quantum Optics at the Nanoscale: From Fundamental Physics to Quantum Technologies (joint session HL, DS, O, and TT, organised by DS)
- 19:00 – 20:30 HSZ 304
Annual General Meeting of the Low Temperature Physics Division

Working Group on Accelerator Physics (AKBP)

Sessions

- AKBP 7 09:30 – 12:45 MOL 213
Synchrotron Radiation and FELs

AKBP 8 15:00 – 17:45 MOL 213
Diagnostics, Control, Instrumentation

18:00 – 19:00 MOL 213
Annual General Meeting of the Working Group
on Accelerator Physics

Job Market

12:00 – 13:00 HSZ 405
d-fine – „Physiker (m/w) im Bereich Risiko und
Finanzen“

14:30 – 15:30 HSZ 405
Boston Consulting – „Als Naturwissen-
schaftler in die Strategieberatung“

Exhibition on Scientific Instruments and Literature

09:00 – 17:00 Foyer HSZ, Tents A/B

Friday, March 24, 2017

Plenary Talk

- PV XXV 08:30 – 09:15 HSZ 01
The European XFEL – Status and first commissioning results
•*Hans Weise*

Symposium Frontiers of Electronic Structure Theory (SYES)

Invited Talks

- SYES 1.1 10:30 – 11:00 HSZ 02
Going Beyond Conventional Functionals with Scaling Corrections and Pairing Fluctuations
•*Weitao Yang*
- SYES 1.2 11:00 – 11:30 HSZ 02
Multi-reference density functional theory
•*Andreas Savin*
- SYES 1.3 11:30 – 12:00 HSZ 02
Density functionals from machine learning
•*Kieron Burke*
- SYES 1.4 12:00 – 12:30 HSZ 02
Taming Memory-Dependence in Time-Dependent Density Functional Theory
•*Neepa Maitra*
- SYES 1.5 12:30 – 13:00 HSZ 02
Quantum Embedding Theories
•*Fred Manby*

Session

- SYES 1 10:30 – 13:00 HSZ 02
Frontiers of Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond

Biological Physics Division (BP)

Invited Talks

- BP 59.1 09:30 – 10:00 HÜL 386
Spatially-resolved transcriptomics and single-cell lineage tracing
•*Jan Philipp Junker*
- BP 60.1 09:30 – 10:00 SCH A251
Spontaneous curvature and membrane curling for malaria-infected erythrocytes
•*Manouk Abkarian, Octavio Albarran Arriagada, Gladys Massiera, Cyril Claudet, Andrew Callan Jones, Vladimir Lorman, Catherine Braun Breton*

Sessions

- BP 58 09:30 – 10:45 ZEU 250
DNA & RNA
- BP 59 09:30 – 11:00 HÜL 386
Multi-Cellular-Systems
- BP 60 09:30 – 12:15 SCH A251
Physics of Parasites – Joint Focus Session (BP/DY) organised by Holger Stark
- BP 61 10:15 – 13:00 ZEU 222
Topological Problems in the Physics of Polymers, Biopolymers and Fibers II (Joint Focus Session CPP/BP)

Chemical and Polymer Physics Division (CPP)

Invited Talks

- CPP 63.1 09:30 – 10:00 ZEU 222
Stimuli-Responsive and Switchable Polymer Brushes: Theoretical Concepts and Computer Simulations
•*Jens-Uwe Sommer*
- CPP 67.4 11:00 – 11:30 ZEU 222
Protein Folding under Mechanical Load
•*Matthias Rief*

CPP 67.6 12:00 – 12:30 ZEU 222
All-atom simulations of folding of proteins
with topologically complex native structures.
•*Pietro Faccioli, Silvio a Beccara*

CPP 70.5 11:15 – 11:45 ZEU 255
Charge transfer states for organic opto-electronics
•*Koen Vandewal*

Sessions

CPP 63 09:30 – 10:00 ZEU 222
Keynote Lecture IV

CPP 64 09:30 – 11:45 CHE 91
Organic-Inorganic Hybride Interfaces (joint
session CPP/DS/HL, organised by DS)

CPP 65 09:30 – 12:30 HÜL 186
Complex Fluids and Soft Matter (organised by
DY)

CPP 66 10:00 – 12:30 ZEU 118
Glasses and Glass Transition (joint session
DY/ CPP/DF, organised by DY)

CPP 67 10:15 – 13:00 ZEU 222
Focus: Topological Problems in the Physics
of Polymers, Biopolymers and Fibers II (joint
session BP/ CPP, organised by CPP)

CPP 68 10:15 – 13:15 ZEU 260
Hydrogels and Microgels II

CPP 69 10:15 – 13:00 ZEU 114
Thin Films, Nanostructures and Nanoparticles II

CPP 70 10:15 – 13:15 ZEU 255
Organic Electronics and Photovoltaics V: OPV
(joint session CPP/DS/HL, organised by CPP)

CPP 71 10:30 – 13:00 HSZ 02
Frontiers of Electronic-Structure Theory: New
Concepts and Developments in Density Func-
tional Theory and Beyond

Dielectric Solids Division (DF)

Session

- DF 19 10:00 – 12:30 ZEU 118
Glasses and Glass Transition (CPP with DF)

Thin Films Division (DS)

Sessions

- DS 45 09:30 – 11:30 HSZ 03
Transport: Spintronics, Spincalorics and Magnetotransport (jointly with HL, MA)
- DS 46 09:30 – 11:00 CHE 89
Ion and Electron Beam Induced Processes
- DS 47 09:30 – 11:45 CHE 91
Organic-Inorganic Hybride Interfaces
- DS 48 09:30 – 12:45 POT 51
Oxide Semiconductors (jointly with HL)
- DS 49 10:30 – 13:00 HSZ 02
Frontiers of Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond (SYES)
- DS 50 11:15 – 12:15 CHE 89
Optics and Light-Matter Interaction with Excitons in 2D Materials\\(Joint Session HL, DS, O, and TT, organised by DS)

Dynamics and Statistical Physics Division (DY)

Invited Talks

- DY 62.1 09:30 – 10:00 HÜL 186
Liquid Crystals in Microgravity
•*Ralf Stannarius*
- DY 63.1 09:30 – 10:00 ZEU 160
Influence of network topology on spreading of epileptic seizure
•*Simona Olmi, Spase Petkoski, Fabrice Bartolomei, Maxime Guye, Viktor Jirsa*

DY 63.2 10:00 – 10:30 ZEU 160
Chimera patterns induced by complex connectivity in Leaky Integrate-and-Fire Networks
•Astero Provata, Nefeli Tsigkri-DeSmedt, Johanne Hizanidis, Philipp Hoevel, Eckehard Schoell

Sessions

DY 62 09:30 – 12:30 HÜL 186
Complex Fluids and Soft Matter II (joint DY/ CPP)

DY 63 09:30 – 12:30 ZEU 160
Controlling Complex Networks in Nature and Engineering (Focus session, joint DY/SOE/BP)

DY 64 09:30 – 12:15 SCH A251
Physics of Parasites – Joint Focus Session (BP/DY) organised by Holger Stark

DY 65 10:00 – 12:30 ZEU 118
Glasses and Glass Transition (joint session DY/ CPP/DF)

Semiconductor Physics Division (HL)

Invited Talk

HL 83.1 09:30 – 10:00 POT 51
New Frontiers in Quantum Matter Heterostructures
•Jochen Mannhart

Sessions

HL 81 09:30 – 11:30 HSZ 03
Transport: Spintronics, Spincalorics and Magnetotransport (jointly with DS, HL, MA)

HL 82 09:30 – 11:15 POT 81
Quantum Information Systems

HL 83 09:30 – 12:45 POT 51
Oxide Semiconductors (joined session with CPP, DS)

HL 84 09:30 – 12:45 POT 151
Heterostructures and Interfaces

HL 85 09:30 – 12:30 POT 251
Topological Insulators III (joined session with TT)

- HL 86 09:30 – 12:45 POT 112
New Materials
- HL 87 09:30 – 12:30 POT 06
Carbon: Diamond and others
- HL 88 10:15 – 13:15 ZEU 255
Organic Electronics and Photovoltaics V: OPV
- HL 89 10:30 – 13:00 HSZ 02
Frontiers of Electronic-Structure Theory: New
Concepts and Developments in Density Func-
tional Theory and Beyond
- HL 90 11:30 – 13:00 POT 81
Inhomogeneous Materials for Solar Cells

Magnetism Division (MA)

Sessions

- MA 58 09:30 – 11:30 HSZ 03
Transport: Spintronics, Spincalorics and Mag-
netotransport (jointly with DS, HL, MA)
- MA 59 09:30 – 11:30 HSZ 04
Topological Insulators II (jointly with DS, HL,
O, TT)
- MA 60 09:30 – 12:00 HSZ 101
Magnetic Materials: Applications and Multiel-
ement Bulk Materials
- MA 61 09:30 – 11:30 HSZ 401
Skyrmion Dynamics
- MA 62 09:30 – 11:45 HSZ 403
Magnetic Imaging (Experimental Techniques)
- MA 63 09:30 – 12:30 POT 251
Topological Insulators III
(joined session with TT)
- MA 64 09:30 – 13:00 P2-EG
Poster 1
- MA 65 09:30 – 13:00 P2-OG1
Poster 2

- MA 66 09:30 – 13:00 P2-OG2
Poster 3
- MA 67 09:30 – 13:00 P2-OG3
Poster 4
- MA 68 09:30 – 13:00 P2-OG4
Poster 5
- MA 69 10:30 – 13:00 HSZ 02
Frontiers of Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond

Metal and Material Physics Division (MM)

Session

- MM 71 10:30 – 13:00 HSZ 02
Frontiers of Electronic-Structure Theory: New Concepts and Developments in Density Functional Theory and Beyond

Surface Science Division (O)

Invited Talks

- O 105.1 09:30 – 10:15 TRE Phy
The Surface Chemistry of Anatase (001) and Rutile (110) in Solution: Atomically Flat Surfaces and Near-Ideal Organic Monolayers
•*Melissa Hines*
- O 109.1 10:30 – 11:00 WIL A317
Discovery of 1D spin-polarized states at step edges of topological crystalline insulators
•*Paolo Sessi*
- O 110.1 10:30 – 11:00 GER 38
Ceramics for Metal-Organic Frameworks (MOFs) based devices
•*Paolo Falcaro*
- O 112.1 13:15 – 14:00 HSZ 01
Helical Molecules and Surfaces: Self-Assembly, Spin Filtering and Unidirectional Motors
•*Karl-Heinz Ernst*

Sessions

- O 105 09:30 – 10:15 TRE Phy
Overview Talk: Melissa Hines
- O 106 10:30 – 13:00 WIL C107
Electronic Structure of Surfaces: Spectroscopy, Surface States III
- O 107 10:30 – 13:00 TRE Phy
Heterogeneous Catalysis: Theory II
- O 108 10:30 – 13:00 TRE Ma
Graphene: Adsorption, Intercalation and Other Aspects
- O 109 10:30 – 13:00 WIL A317
Tribology and Structure of Surfaces: Misc.
- O 110 10:30 – 13:00 GER 38
Molecular Films: Morphology, Electronics, Photovoltaics
- O 111 10:30 – 13:00 REC/PHY C213
Nanostructures at Surfaces: Molecular Systems III
- O 112 13:15 – 14:00 HSZ 01
Overview Talk STM and Molecular Machines: Karl-Heinz Ernst
- O 113 10:15 – 13:00 ZEU 114
Thin Films, Nanostructures and Nanoparticles II

Physics of Socio-economic Systems Division (SOE)

Session

- SOE 22 09:30 – 12:30 ZEU 160
Focus Session: Controlling Complex Networks in Nature and Engineering (joint DY /SOE /BP)

Low Temperature Physics Division (TT)

Sessions

- TT 79 09:30 – 11:30 HSZ 03
Transport: Spintronics, Spincalorics and Magnetotransport (jointly with DS, HL, MA)

- TT 80 09:30 – 11:00 HSZ 103
Low-Dimensional Systems: Oxide Hetero-
Interfaces
- TT 81 09:30 – 10:30 HSZ 304
Correlated Electrons: Chiral Magnets
- TT 82 09:30 – 11:15 POT 81
Quantum Information Systems (joint session
HL, MA, TT, organised by HL)
- TT 83 09:30 – 12:30 POT 251
Topological Insulators III (joint session DS, HL,
MA, O, TT, organised by HL)
- TT 84 10:30 – 13:00 HSZ 02
SYES: Frontiers of Electronic-Structure Theory:
New Concepts and Developments in Density
Functional Theory and Beyond (joint symposi-
um DS, HL, MA, MM, O, TT, organised by O)
- TT 85 10:30 – 13:00 TRE Ma
Graphene: Adsorption, Intercalation and Other
Aspects (joint session DY, DS, HL, MA, O, TT,
organised by O)
- TT 86 11:15 – 12:00 HSZ 103
Low-Dimensional Systems: Charge Order
- TT 87 11:15 – 12:15 CHE 89
Optics and Light-Matter Interaction with Exci-
tons in 2D Materials (joint session HL, DS, O,
and TT, organised by DS)

Physik-LehrerInnen-Tage (LT)

Invited Talks, Workshops

- LT 2.1 09:00 – 10:00 HSZ 301
Grundkonzepte der Allgemeinen Relativität-
stheorie
•*Ute Kraus*
- LT 2.2 10:00 – 10:45 HSZ 301
Quantenkryptographie – ein möglicher Zu-
gang zur Quantenphysik für die Schule
•*Gesche Pospiech*

- LT 2.3 11:00 – 11:30 HSZ 301
 Sand im Kopf: Physik eines unterschätzten Systems
 •*Jörg Mertins*
- LT 3.1 11:45 – 12:30 HSZ 301
 Digitale Photographie – Ein Blick hinter die Kulissen
 •*Steffen Danzenbächer*
- LT 3.2 12:30 – 13:15 HSZ 301
 Tumorthherapie mit Partikelstrahlen
 •*Wolfgang Enghardt*
- LT 4.1 14:15 – 17:15 HSZ 201
 Physik und Philosophie in der Schule: von- und miteinander Lernen im Fach- und fächerverbindenden Unterricht
 •*Irena Doicescu*
- LT 5.1 14:15 – 17:15 HSZ 301
 Mathe im Physikunterricht – Was stelle ich dar?
 •*Marie-Annette Geyer, Wiebke Kuske-Janßen*
- LT 6.1 14:15 – 17:15 WIL B221
 Experimente mit kosmischen Teilchen im Unterricht
 •*Birgit Schneider*
- LT 7.1 14:15 – 17:15 Albertinum
 Physik im Kunstmuseum
 •*Thomas Prestel, Wiebke Kuske-Janßen*

Sessions

- LT 2 09:00 – 11:30 HSZ 301
 Moderne Physik für den Physikunterricht
- LT 3 11:45 – 13:15 HSZ 301
 Moderne Technologie für den Physikunterricht
- LT 4 14:15 – 17:15 HSZ 201
 Physik und Philosophie
- LT 5 14:15 – 17:15 HSZ 301
 Physik und Mathematik

LT 6 14:15 – 17:15 WIL B221
Astrophysikalische Experimente

LT 7 14:15 – 17:15 Albertinum
Physik und Kunst



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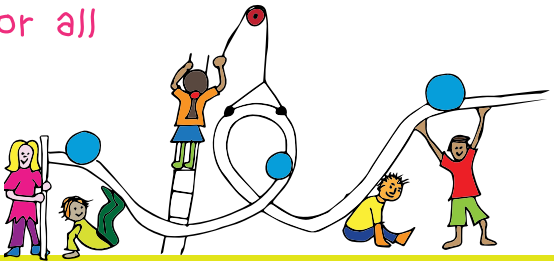
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Index of Exhibitors Dresden 2017

Location: Technical University Dresden, Bergstraße 64,
01069 Dresden

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

<u>Company</u>	<u>Location</u>	<u>Stand- No.</u>
Accurion GmbH Stresemannstraße 30, 37079 Göttingen <i>Anti Vibration Isolation Systems</i>	Foyer HSZ	H 19
ADDITIVE Soft- und Hardware für Technik und Wissenschaft GmbH Max-Planck-Straße 22 b, 61381 Friedrichsdorf <i>ADDITIVE steht für Berechnen, Visualisieren, Automatisieren für Statistik und Wissensmanagement im Qualitäts-/Ingeni- eurwesen mit den Produkten Minitab, Origin, Mathematica und ADDITIVE-Cloud-Services.</i>	Tent A	A 97
Agilent Technologies Sales & Services GmbH & Co. KG Lyoner Straße 20, 60528 Frankfurt/M. <i>Vakuumpumpen, Vakuummessgeräte, Lecksucher</i>	Tent A	A 11
Allectra GmbH Traubeneichenstraße 62-66, 16567 Schönfließ <i>Vakuumkomponenten, el. Durchführungen, Kabel</i>	Tent A	A 79
AMETEK GmbH Rudolf-Diesel-Straße 16, 40670 Meerbusch <i>SunPower: Free-Piston Stirling Engines and Cryocoolers</i>	Tent A	A 17

AMETEK GmbH Tent A A 20

Rudolf-Diesel-Straße 16, 40670 Meerbusch

Solartron Analytical: Impedanzanalysatoren, elektrische Charakterisierung von Festkörpern/Halbleitern/dünnen Schichten

Ametek, TMC GmbH Tent A A 78

Rudolf-Diesel-Straße 16, 40670 Meerbusch

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ANFATEC Instruments AG Tent A A 44

Melanchthonstraße 28, 08606 Oelsnitz (V)

sSNOM, IR-SNOM, AFM, SPM-Controller, LockIn-Verstärker

A 53+A

attocube systems AG Tent A 54+A 55

Königinstraße 11 A, Rückgebäude EG, 80539 München

Nanopositionierer, Tieftemperatur-Mikroskopie, Kryostaten

AXO DRESDEN GmbH / HUBER

Diffraktionstechnik GmbH & Co. KG Tent A A 81

Gasanstaltstraße 8 B, 01237 Dresden

Röntgenspiegel, Upgradelösungen, Präzisionsbeschichtung, Diffraktions- und Positioniersysteme

Bestec GmbH Tent A A 56

Am Studio 2b, 12489 Berlin

Systeme für OLED, OMBD, Sputtern, therm. Verdampfen, Optiksyste-me im UHV; Beamline Ausrüstung

BlueFors Cryogenics Oy Tent A A 41

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Cryogen-free dilution refrigerator systems

CreaPhys GmbH Tent A A 15

Niedersedlitzer Straße 75 (Eingang A), 01257 Dresden

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Cryophysics GmbH Tent A A 31

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CryoVac GmbH & Co KG Tent A A 95

Heuserweg 14, 53842 Troisdorf

Kryotechnik, Helium-Bad-, Verdampfer- sowie Refrigeratorcryostate, UHV Systeme, Temperaturmess- und Regelgeräte

CrysTec GmbH Kristalltechnologie Tent A A 94

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53170 Bonn

Information und Beratung zu den Förderprogrammen der DFG

Dr. Iva Cermakova CGC Instruments Tent A A 72
Hübschmannstraße 18, 09112 Chemnitz
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Ferrovac GmbH Tent A A 52
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HSZ H 9
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Goodfellow GmbH	Tent A	A 46
Postfach 13 43, 61213 Bad Nauheim		
<i>Forschung und Entwicklung</i>		
GVL Cryoengineering Dr. George V. Lecomte GmbH	Tent A	A 57
Aachener Straße 89, 52223 Stolberg		
<i>3He/4He Mischkryostate, Meß- und Regelgeräte, kryotechnisches Zubehör</i>		
GWU-Lasertechnik Vertriebsgesellschaft mbH	Foyer HSZ	H 2
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HMW Hauner Metallische Werkstoffe	Tent A	A 18
Gewerbering 36, 91341 Röttenbach		
<i>Metalle, Legierungen, Verbindungen für Forschung und Entwicklung</i>		
Hositrad Deutschland	Tent A	A 45
Lindnergasse 2, 93047 Regensburg		
<i>CF, KF, ISO, UHV-Vakuumbauteile, Elektrische Durchführungen, Membranbälge, Ventile, Special Products, Drehschieberpumpen, UHV Manipulatoren, Massenspektrometer, Druckmessgeräte, Mass Flow Controller</i>		

Hübner GmbH & Co. KG Foyer HSZ H 1
 Heinrich-Hertz-Straße 2, 34123 Kassel
www.hubner-group.com

Hysitron, Inc. Foyer
Technologiezentrum am Europaplatz HSZ H 23
 Dennewartstraße 25/27, 52068 Aachen
www.hysitron.com

ICEoxford Tent A A 10
 Avenue 4, Station Lane, Witney, Oxon, OX28 4BN,
 United Kingdom
Cryogenics

Institute of Physics Publishing Foyer HSZ H 24
 Temple Circus, Temple Way, Bristol, BS1 6BE,
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 netsysteme*

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Kidlerstraße 13, 81371 München <i>Vacuum and Cryogenics</i>		
Kentax GmbH	Tent A	A 42
Werftstraße 20 e, 30926 Seelze <i>Organische Verdampfer, MBE-LEED, UHV-Sonderkonstruktionen</i>		
Keysight Technologies Deutschland GmbH	Foyer HSZ	H 22
Herrenberger Straße 130, 71034 Böblingen <i>AFM, Atomic Force Microscope, Elektrochemie, FE-SEM, Nanoindentation, Scanning Electron microscope, Nanomechanical Testing Systems</i>		
Kleindiek Nanotechnik GmbH	Foyer HSZ	H 17
Aspenhaustraße 25, 72770 Reutlingen <i>Kleindiek Nanotechnik stellt Nanopositionierungslösungen her.</i>		
Korvus Technology Ltd. The Old Fishery	Tent A	A 91
Holcombe Lane, Newington, Oxfordshire OX10 7AJ, United Kingdom <i>Deposition Systems and Components</i>		
Kurt J. Lesker Ltd.	Tent A	A 73
15/16 Burgess Road, Hastings, East Sussex, TN35 4NR, United Kingdom <i>Vacuum Components</i>		
Laser Quantum GmbH	Tent A	A 36
Max-Stromeier-Straße 116, 78467 Konstanz <i>Dauerstrichlaser, Ultrakurzpulslaser, Ti:Saphir-Laser, Pump- laser, Spektroskopie</i>		

Leiden Probe Microscopy B.V. Tent A A 93

Niels Bohrweg 2, 2333 CA Leiden, Netherland

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**LewVac Components Ltd Unit F2,
Ote Hall Farm** Tent A A 59

Janes Lane, Burgess Hill, RH15 0SR, United Kingdom

Vacuum Components

Leybold GmbH Tent A A 62

Bonner Straße 498, 50968 Köln

Vakuumpumpen

LK-Instruments Tent A A 70

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Elektronische und optische Messtechnik, kundenspezifische Lösungen, Prototypenbau, www.lk-instruments.com

LOT-QuantumDesign GmbH Tent AA 84+A 85

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Mad City Labs GmbH Tent A A 40

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Nanopositioning

Mantis Deposition GmbH Tent A A 23

Mombacher Straße 52, 55122 Mainz

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Kristalle GmbH** Foyer
HSZ H 25

Im Langenbroich 20, 52428 Jülich

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- mechOnics AG** Tent A A 75
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- Menlo Systems GmbH** Tent A A 6+A 7
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- nano analytik GmbH** Tent A A 33
 Ehrenbergstraße 1, 98693 Ilmenau
Atomic Force Microscopy, AFM in SEM, Single-Ion-Implantation for Qbits; Nano-lithography, Smart-Active-Probes, STM-Tips, Calibration structures
- nanoscore GmbH** Tent A A 87
 Maisebachstraße 3, 61479 Glashütten
Distribution of UNISOKU Scanning Probe Microscopes and BihurCrystal Atomic Layer Injection systems
- neomicra GmbH** Tent A A 67
 Erwin-Rommel-Straße 1, 91058 Erlangen
Elektronenstrahlolithografie
- Newport Spectra-Physics GmbH** Tent A A 5
 Guerickeweg 7, 64291 Darmstadt
Motion Control, Opto-Mechanik, Optiken, Laser, Lichtquellen, Optische Tische, Schwingungsisolaton

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Tent A

A 68

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Tent A

A 19

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NT-MDT National Technological Park

Tent A

A 80

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Tent A

A 69

Boschstraße 6, 82178 Puchheim

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Foyer

HSZ

H 10

Im Gaisgraben 7, 79219 Staufen i. Br.

Strahlführungssysteme, Positioniersysteme

Oxford Instruments Asylum Research

Foyer

HSZ

H 8+H 13

Borsigstraße 15a, 65205 Wiesbaden

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Oxford University Press Academic Division	Tent A	A 1
Great Clarendon Street, Oxford OX2 6DP, United Kingdom <i>Books, Catalogues</i>		
Pearson Deutschland GmbH	Tent A	A 51
Lilienthalstraße 2, 85399 Hallbergmoos <i>Fachliteratur englisch- und deutschsprachig</i>		
Pfeiffer Vacuum GmbH	Tent A	A 21+A 22
Berliner Straße 43, 35614 Asslar <i>Vakuumpumpen, Turbopumpen, Lecksuchgeräte, Vorpumpen</i>		
Physik Instrumente (PI) GmbH & Co. KG	Tent A	A 38
Auf der Römerstraße 1, 76228 Karlsruhe <i>Nano- und Mikropositioniertechnik, Hexapode</i>		
PIEZOCONCEPT	Tent A	A 65
15 Rue du Bocage, 69008 Lyon, France <i>Piezostage, nanopositioner, manual and motorized microstages for microscopy and AFM application</i>		
Piezosystem Jena GmbH	Tent A	A 86
Stockholmer Straße 12, 07747 Jena <i>Positionierung, Nanopositionierung, Piezoelemente, Piezoaktoren</i>		
PINK GmbH Vakuumtechnik	Tent A	A 47
Gyula-Horn-Straße 20, 97877 Wertheim <i>Vakuum- u. UHV-Kammern, Beschleunigerkomponenten, vakuumtechnische Anlagen u. Systeme, Manipulatoren</i>		

Pressure Wave Systems GmbH Tent A A 96
 Häberlstraße 8, Rgb., 80337 München
Trockene Kompressoren, Kühlsysteme

PREVAC sp. z o.o. Foyer HSZ H 4
 Raciborska Straße 61, 44362 Rogów, Poland
UHV HP-XPS, UPS, ARPES, ARUPS, FTIR Systems, UHV/HV deposition systems, X-ray, Ion, Electron UHV sources, LHe manipulators, custom sample holders, electronics & software

Qioptiq Photonics GmbH & Co. KG Tent A A 99
 Hans-Riedl-Straße 9, 85622 Feldkirchen (München)
Präzisionsoptik und Mechanik, Faseroptik, Aufbausysteme, Optische Tische

QuantumWise A/S Tent A A 66
 Fruebjergvej 3 / Postboks 4, 2100 Copenhagen, Denmark
Atomistix ToolKit

qtools GmbH Tent A A 25
 Geissacher Straße 18, 81371 München
Produkte zur Quanteninformationsverarbeitung, z. B. verschränkte Photonenpaarquellen

Raith GmbH Tent A A 28+A 29
 Konrad-Adenauer-Allee 8, 44263 Dortmund
Raith is a leading precision technology solution provider for nanofabrication, electron beam lithography, focused ion beam fabrication, nanoengineering and reverse engineering applications

SAES Getters S.p.A. Foyer HSZ H 20
 Viale Italia, 77, 20020 Lainate (Milan), Italy
UHV NEG-Pumpen, Alkalimetall-Dispenser, Hochvakuumpumpen, Getter

Exhibition

Schaefer Technologie GmbH	Tent A	A 30+A 37
Robert-Bosch-Str. 31, 63225 Langen <i>Rastersondenmikroskopie, STM/AFM in UHV, Flüssigkeit oder Luft, LEED, optische 3D-Mikroskopie, Profilometer, Vakuum, Gasdurchfluss, Magnetik, Manipulation und Haftkraftmessung an Einzelzellen, Kolloiden und Nanopartikeln</i>		
Scienta Omicron GmbH	Tent A	A 48+A 49
Limburger Straße 75, 65232 Taunusstein <i>Systems and Instruments for Surface Science and Thin Film Technology</i>		
SEKELS GmbH	Foyer HSZ	H 5
Dieselstraße 6, 61239 Ober-Mörlen <i>Weichmagnetische Halbzeuge, Abschirmungen, Magnetsysteme und induktive Bauelemente</i>		
Semilab Germany GmbH	Foyer HSZ	H 6
Geysstraße 13, 38106 Braunschweig <i>Rasterkraftmikroskope, Rastertunnelm., AFM, STM, Lock-in Verstärker, Atomic Force Microscopes</i>		
SI Scientific Instruments GmbH	Tent A	A 82
Römerstraße 67, 82205 Gilching <i>Spektrometer, Lock-In Verstärker</i>		
SIGMA Surface Science GmbH	Tent A	A 24
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SmarAct GmbH Tent A A 35

Schütte-Lanz-Straße 9, 26135 Oldenburg
Piezomotors

SPECS Surface Nano Analysis GmbH Foyer H 11+H
HSZ 12

Voltastraße 5, 13355 Berlin
Photoelektronenspektroskopie, Rastersondenmikroskopie, winkelaufgelöste Photoemission, Elektronenmikroskopie

Springer-Verlag GmbH Tent A A 39

Tiergartenstraße 17, 69121 Heidelberg
Wissenschaftliche Bücher und Zeitschriften

Staub Instrumente GmbH Tent A A 71

Hagenastraße 22, 85416 Langenbach
RHEED, TorrRHEED, in-situ AUGERProbe, AUGER, XPS, UPS, EELS, electron sources, ion sources, surface analysis systems

Swabian Instruments GmbH Foyer HSZ H 7

Frankenstraße 39, 71701 Schwieberdingen
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SwissLitho AG Tent A A 76

Technoparkstraße 1, 8005 Zürich, Switzerland
SwissLitho is a young high-tech company with the vision to change the way nanostructures are made. SwissLitho offers innovative nanofabrication tools for high-resolution nanometer sized 2D&3D pattern.

- Technische Informationsbibliothek Hannover (TIB)** Tent A A 32
Welfengarten 1B, 30167 Hannover
Wissenschaftliche Fachliteratur
- Technische Universität München Forschungs-Neutronenquelle** Tent A A 4
Lichtenbergstraße 1, 85747 Garching
Das User Office des Heinz Maier-Leibnitz-Zentrums (MLZ) informiert über Neutronen für Wissenschaft, Industrie und Medizin aus Garching.
- tectra GmbH Physikalische Instrumente** Tent A A 63
Reuterweg 65, 60323 Frankfurt/M.
Plasma Source, e-Beam evaporator, Sputter Gun, Atomic Hydrogen Source, MCP, Deposition Systems, Vacuum Parts, Sample Heater, Bake-out Equipment, UHV Stepper Motors, Vacuum Measurement, Ion-/Electron Sources, CO2 Snow Cleaning
- THATec Innovation GmbH** Tent A A 64
Bautzner Landstraße 400, 01328 Dresden
Laborsoftware, Datenerfassung, Visualisierung, Datenverarbeitung, Automatisierung
- THORLABS GmbH** Tent A A 8+A 9
Hans-Boeckler-Straße 6, 85221 Dachau
Optische & optomechanische Komponenten, Test & Measurement Systeme, opt. Tische & Vibrationskontrolle, Nanopositionierungen, opt. Fasern, Lichtquellen, Imaging, Mikroskopie & Life Science Komponenten
- TOPTICA Photonics AG** Tent A A 89
Lochhamer Schlag 19, 82166 Gräfelfing / München
New Tunable Diode Lasers, New Laser Frequency Stabilization, Femto Fiber Lasers, Wavelength Meters

TransMIT GmbH**Gesellschaft für Technologietransfer** Tent A A 34

Heinrich-Buff-Ring 16, 35392 Gießen

*TransMIT GmbH - Center for Adaptive Cryotechnology and Sensors***UHV Design Ltd. Judge House** Tent A A 92Lewes Road, Laughton, East Sussex BN8 6BN,
United Kingdom*Vacuum manipulation products***VacGen LTD/ ESS LTD / Moorfield Nanotechnology LTD Handelsvertretung** Tent A A 61

Brunnenstraße 36 a, 44623 Herne

*UHV Vakuumkomponenten, Manipulatoren, Schaugläser mit opt. Qualität, UHV Vakuumkammern & Sonderteile, PVD/CVD Systeme & Komponenten, schlüsselfertige CVD Systeme für die Synthese von Graphen und Carbon Nanotubes, LTE (OLED) & Magnetron Sputterquellen, Gasanalytik, Quadrupol-MS, Reparatur/Upgrades Quadrupol-Massenspektrometer***VACOM Vakuum Komponenten & Messtechnik GmbH** Tent A A 16

In den Brückenäckern 3, 07751 Großlöbichau

*Vakuumkomponenten, Vakuummessstechnik, Durchführungen, Ventile, Schaugläser***Vaqtec-scientific Mario Melzer** Tent A A 58

Thulestraße 18B, 13189 Berlin

*Komponenten der UHV- und HV-Technik: u.a. Stromdurchführungen, Schaugläser, Schichtdicken-Messgeräte***Walter de Gruyter GmbH** Foyer
HSZ H 18

Genthiner Straße 13, 10785 Berlin

Wissenschaftliche Bücher und Zeitschriften

Wiley-VCH Verlag GmbH & Co. KG aA Foyer HSZ H 21
Boschstraße 12, 69469 Weinheim
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Lise-Meitner-Straße 6, 89081 Ulm
Hochauflösende Mikroskope: AFM, Raman, SNOM

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Marketing and Sales Tent A A 100
Technoparkstraße 1, 8005 Zurich, Switzerland
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Standplan Hörsaalzentrum:
 Arbeitsstand: 20.09.2016
 Bitte farblich gekennzeichnete
 Sicherheitsbedingungen für die
 Ausstellungsstände (grün,orange,
 gelb, blau) beachten.



Foyergestaltung Hörsaalzentrum

Im gesamten Foyer BS-Überwachung während der Veranstaltung

- Legende:**
- Standtiefe 3,00 m - kein E-Anschluss ,
 - Standtiefe 2,00 m - kein E-Anschluss
 - Standtiefe 2,00 m E-Anschluss 230 V,
(E-Zuführung über Schukoanschlüsse)
 - Standtiefe 2,50 m - kein E-Anschluss

Standaufteilung Zelt A







Tram or bus stop with number



Mensa, Snacks, Coffee



PC-Pool (Wlan provided all over campus)



Lecture hall name (abbreviation)



Entrance

BAR
BAR Schön
BEY
CHE
DÜL
GER
GÖR
HSZ

Barkhausen-Bau
Schönfeldhörsaal
Beyer-Bau
Chemiegebäude
Dülfersaal
von-Gerber-Bau
Görges-Bau
Hörsaalzentrum
(lecture hall center)

Poster P3

Conference office / Plenary talks /
Symposia / Poster P2 / Tutorials /
Einstein Slam / Evening talk /
Job Market / Exhibition

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IFW
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MOL
PHY
POT
TRE
Tents
WIL
ZEU

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Leibniz-Institut (IFW)
Merkel-Bau
Möller-Bau
Physikgebäude
Gerhart-Potthoff-Bau
Treffz-Bau
Willers-Bau
Zeuner-Bau

Poster P4

Poster P1 & Exhibition



DPG *Schüler Tagung*

Physikzentrum Bad Honnef
8. - 10. September

Physik im Kopf?



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