

Synopsis of Daily Programme

Sunday, March 22, 2009

Tutorials Dielectric Solids Division (DF)

Invited Talks

- DF 1.1 16:00-16:45 HSZ 401
Magnetic and ferroelectric materials
• *Wolfgang Kleemann*
- DF 1.2 16:50-17:35 HSZ 401
Magnetoelectric coupling in
multiferroics: Recent developments
• *Manfred Fiebig*
- DF 1.3 17:40-18:30 HSZ 401
Multiphase multiferroics
• *Kathrin Dörr*

Tutorials Surface Science Division (O)

Invited Talks

- O 1.1 16:00-16:40 HSZ 04
Ultrafast Nanooptics: Bringing Ultimate
Time Resolution to the Nanoscale
• *Walter Pfeiffer*
- O 1.2 16:55-17:35 HSZ 04
Ultrafast Nano-Optics: Applications in
Nano-Science
• *Christoph Lienau*
- O 1.3 17:50-18:30 HSZ 04
Near-field Dynamics Probed with Time-
Resolved PEEM
• *Michael Bauer*

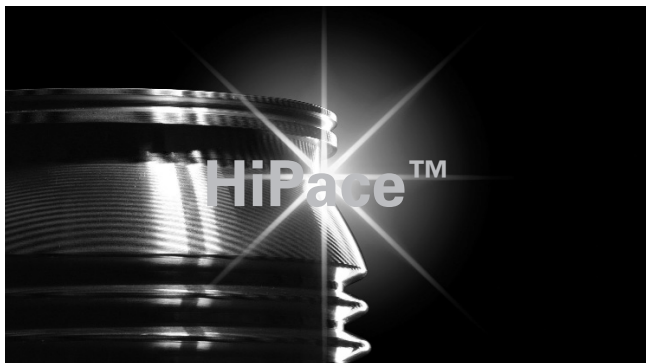
Tutorials Working Group on Physics of Socio-economic Systems (AGSOE)

Invited Talk

AGSOE 1.1 16:00-19:00 HSZ 403
 A General Theory of Traffic Flow
 •Dirk Helbing

Welcome Evening

19:00-21:30 Mensa



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Monday, March 23, 2009

Mon

Plenary Talks

- PV I 08:30-09:15 HSZ 01
The Ring of Brownian motion: the good,
the bad and the simply silly
•*Peter Hanggi*
- PV II 09:15-10:00 HSZ 01
Plasmonics: Photons at the Nanoscale
Yield Physics, Metamaterials, and
Devices
•*Harry A. Atwater*
- PV III 17:00-17:45 HSZ 01
Nature's Materials - hierarchical
structure and mechanical properties
•*Peter Fratzl*

Biological Physics Division (BP)

Invited Talk

- BP 1.1 10:15-10:45 HÜL 186
Role of membrane curvature in
membrane trafficking
•*Patricia Bassereau, Benoit Sorre,
Andrew Callan-Jones, Gerbrand Koster,
Aurélien Roux, Martin Lenz, Jean-
François Joanny, Jacques Prost*

Sessions

- BP 1 10:15-13:15 HÜL 186
Dynamic Processes and Pattern
Formation
- BP 2 11:00-13:15 ZEU 260
Biopolymers and Biomaterials (joint
session BP/CPP)
- BP 3 11:00-13:00 ZEU 255
Statistical Physics in Biological Systems
I (joint session DY/BP)
- BP 4 14:30-17:00 HÜL 186

Cell Mechanics

BP 5	14:30-17:00	ZEU 260
	Proteins	
BP 6	14:00-16:45	HÜL 386
	Statistical Physics in Biological Systems II (joint session DY/BP)	
BP 7	17:45-20:00	P3
	Poster I	

Chemical and Polymer Physics Division (CPP)**Invited and Topical Talks**

CPP 1.1	10:45-11:15	ZEU 222
	How to make mesoscopic single-crystals	
	• <i>Stephan Förster, Steffen Fischer, Kathrin Zielske, Peter Lindner, Andreas Timmann, Stephan Roth</i>	
CPP 2.1	14:00-14:30	ZEU 222
	Structure transformations in surfactant bilayer systems	
	• <i>Olsson Ulf</i>	
CPP 2.2	14:30-15:00	ZEU 222
	Structural Transitions in Self-aggregating Systems Studied by Means of the Stopped-flow Technique	
	• <i>Michael Gradzielski</i>	
CPP 2.5	15:45-16:15	ZEU 222
	Molecular Reorganization during Membrane Adhesion and Fusion	
	• <i>Reinhard Lipowsky</i>	
CPP 3.1	18:00-18:30	ZEU 222
	Formation and exchange kinetics of block copolymer micelles	
	• <i>Reidar Lund</i>	

Sessions

CPP 1	10:45-12:30	ZEU 222
	Focus: Amphiphilic Systems I	

CPP 2	14:00-17:00	ZEU 222	Focus: Amphiphilic Systems II
CPP 3	18:00-19:15	ZEU 222	Focus: Amphiphilic systems III
CPP 4	11:00-13:15	ZEU 260	Biopolymers (joint session BP/CPP)
CPP 5	10:30-12:45	ZEU 160	Interfaces
CPP 6	14:00-17:00	ZEU 160	Thin Films
CPP 7	18:00-19:30	ZEU 160	Liquids
CPP 8	10:30-12:30	ZEU 114	Nanoparticles I
CPP 9	14:00-17:00	ZEU 114	Nanoparticles II
CPP 10	18:00-19:30	ZEU 114	Polymer Physics I

Dielectric Solids Division (DF)

Invited and Topical Talks

DF 3.1	14:30-15:00	WIL A317	Interaction of molecules with dielectric surfaces: From single molecular adsorption to functional devices • <i>Lukas M. Eng</i>
DF 3.2	15:05-15:25	WIL A317	Studying terephthalic acid on dielectric surfaces using non-contact atomic force microscopy • <i>Philipp Rahe, Markus Nimmrich, Angelika Kühnle</i>
DF 3.3	15:25-15:45	WIL A317	

Theoretical contributions to the characterization of adsorbates at titania surfaces

•*Thomas Bredow*

DF 3.4 15:45-16:05 WIL A317
Accurate Energetics of Ground and Excited States of Molecules on Surfaces
•*Thorsten Klüner*

DF 3.5 16:10-16:40 WIL A317
Fluorescence and ordering of aromatic molecules on thin dielectric films
•*Moritz Sokolowski*

DF 3.6 16:40-17:00 WIL A317
Determination of Molecule Orientation on Oxide Surfaces by Near-Edge X-ray Absorption Spectroscopy
•*Alexei Nefedov, Mikhail Naboka, Christof Wöll*

DF 3.7 17:00-17:20 WIL A317
Adsorption of Organic Molecules on Moderately Reactive Substrates
•*Michael Rohlfing, Andreas Greuling, Thomas Bredow*

DF 4.1 10:00-10:35 WIL B321
Magnetoelectric effects and excitations in multiferroic manganites
•*Andrei Pimenov*

Sessions

DF 2 10:40-13:00 WIL A317
Dielectric Spectroscopy & Microscopy

DF 3 14:30-17:20 WIL A317
Focus Session: Interactions of Molecules with Dielectric Surfaces

DF 4 10:00-12:40 WIL B321
Multiferroics, Phase Transitions & Relaxors

DF 5 15:00-17:00 WIL B321
High-k and low-k Dielectrics

Thin Films Division (DS)

Invited and Topical Talks

- DS 4.1 10:15-11:00 GER 38
Semiconductor Nanolasers with
Nanowire and Plasmonic Waveguides
•*Cun-Zheng Ning*
- DS 5.1 11:15-11:45 GER 38
Quantum modelling of nanophotonic
laser devices
•*Christina Bückers, Stephan W. Koch,
Angela Thränhardt, Jörg Hader, Jerome
V. Moloney*
- DS 5.2 11:45-12:15 GER 38
Photon statistics and time evolution of
photon correlations in semiconductor
microcavity lasers
•*Jan Wiersig, Christopher Gies, Frank
Jahnke*
- DS 6.1 14:00-14:30 GER 38
All-optical memory based on a two-
mode laser diode
•*Andreas Amann, Simon Osborne,
Stephen O'Brien*
- DS 6.2 14:30-15:00 GER 38
Novel Concepts of High Power Diode
Lasers: High Brilliance and Wavelength
Stabilization
•*Vitaly Shchukin, Nikolai Ledentsov,
Dieter Bimberg*
- DS 7.1 15:30-16:00 GER 38
Theory of carrier dynamics in quantum
dot light emitters
•*Ermin Malic, Marten Richter, Jeong-
Eun Kim, Janik Wolters, Matthias-Rene
Dachner, Ulrike Woggon, Andreas Knorr*
- DS 7.2 16:00-16:30 GER 38
Photo- and spin current generation
and dynamics in semiconductor
nanostructures

Huynh Thanh Duc, Jens Förstner,
•Torsten Meier

Sessions

- | | | | |
|------|-------------|----------|--|
| DS 1 | 10:15-12:00 | GER 37 | Thin Film Characterisation: Structure Analyse and Composition (XRD, TEM, XPS, SIMS, RBS, ...) I |
| DS 2 | 14:00-15:30 | GER 37 | Thin Film Characterisation: Structure Analyse and Composition (XRD, TEM, XPS, SIMS, RBS, ...) II |
| DS 3 | 15:45-17:15 | GER 37 | Layer Deposition Processes |
| DS 4 | 10:15-11:00 | GER 38 | Invited Ning |
| DS 5 | 11:15-12:30 | GER 38 | Nanophotonics - Theory of Nanophotonic Devices I |
| DS 6 | 14:00-15:15 | GER 38 | Nanophotonics - Theory of Nanophotonic Devices II |
| DS 7 | 15:30-17:00 | GER 38 | Nanophotonics - Theory of Nanophotonic Devices III |
| DS 8 | 15:00-17:00 | WIL B321 | High-k and low-k dielectrics |
| | 17:30-18:00 | GER 37 | Annual General Meeting of the Thin Films Division |

Dynamics and Statistical Physics Division (DY)

Invited Talks

- | | | | |
|--------|-------------|---------|--|
| DY 1.1 | 10:15-10:45 | HÜL 386 | Heat transfer on the nanometer scale - Near-field thermal scanning microscopy
•Achim Kittel |
|--------|-------------|---------|--|

- DY 4.1 14:00-14:30 HÜL 386
 Mechanisms of tissue maintenance: a
 laboratory for statistical physics
 •*Benjamin Simons*
- Sessions**
- DY 1 10:15-13:00 HÜL 386
 Statistical physics I (general)
- DY 2 11:00-13:00 ZEU 255
 Statistical physics in biological systems
 I (joint session DY/BP)
- DY 3 11:00-13:00 ZEU 118
 Nonlinear dynamics, synchronization
 and chaos I
- DY 4 14:00-16:45 HÜL 386
 Statistical physics in biological systems
 II (joint session DY/BP)
- DY 5 14:45-16:45 ZEU 255
 Soft matter
- DY 6 14:45-16:45 ZEU 118
 Critical phenomena and phase
 transitions

Semiconductor Physics Division (HL)

Invited Talks

- HL 6.1 11:00-11:45 HSZ 01
 Three dimensional SiGe quantum dot
 crystals
 •*Thomas Fromherz*
- HL 8.1 14:00-14:45 HSZ 01
 Phonon-mediated non-equilibrium
 interactions between mesoscopic
 devices
Georg Schinner, •*Stefan Ludwig*
- HL 10.1 14:45-15:30 HSZ 01
 The Bose-Einstein condensation of
 excitons in quantum-Hall bilayers
 •*Werner Dietsche, Lars Tiemann*

Sessions

HL 1	10:15-12:45	BEY 81	III-V semiconductors I
HL 2	10:15-12:15	BEY 118	GaN: devices
HL 3	10:15-12:45	BEY 154	Heterostructures
HL 4	10:15-12:45	POT 51	II-VI semiconductors
HL 5	10:15-13:15	POT 151	Photovoltaic
HL 6	11:00-11:45	HSZ 01	Invited Talk Fromherz
HL 7	13:30-17:00	BEY 118	Quantum dots: Optical properties I
HL 8	14:00-14:45	HSZ 01	Invited Talk Ludwig
HL 9	14:30-17:00	P2	Poster 1
HL 10	14:45-15:30	HSZ 01	Invited Talk Dietsche

Magnetism Division (MA)

Invited Talks

MA 1.1	10:15-10:45	HSZ 04	Exciting magnetism : inelastic scanning tunneling spectroscopy on magnetic nanostructures • <i>Wulf Wulfhekel</i>
MA 6.1	14:00-14:30	HSZ 04	Symmetry dependent spin injection from Fe/MgO in single crystal based magnetic tunnel junctions • <i>Michel Hehn, Fanny Greullet, Julien Bernos, Coriolan Tiusan, Christine</i>

Bellouard, Francois Montaigne, Daniel Lacour, Marc Alnot, Yuan Lu, Gwladys Lengaigne, David Halley, Wolfgang Weber

MA 6.2 14:30-15:00 HSZ 04
Magnetic imaging at the limits of space and time
•*Thomas Eimüller, Wei He, Jie Li, Min-Sang Lee, Björn Redeker, Stefan Buschhorn*

Sessions

MA 1 10:15-10:45 HSZ 04
Invited Talk Wulfhekel

MA 2 11:00-13:15 HSZ 04
Spin-Dynamics / Spin-Torque I

MA 3 11:00-13:15 HSZ 401
Magnetic Half Metals and Oxides

MA 4 11:00-13:15 HSZ 403
Surface Magnetism I

MA 5 11:00-13:15 HSZ 103
Electron Theory of Magnetism

MA 6 14:00-15:00 HSZ 04
Invited Talks Hehn / Eimüller

MA 7 15:15-19:15 HSZ 04
Spin-Dynamics/ Spin-Torque II

MA 8 15:15-18:30 HSZ 401
Magnetic Coupling Phenomena / Exchange Bias

MA 9 15:15-17:00 HSZ 403
Surface Magnetism II

MA 10 17:15-19:00 HSZ 403
Magnetic Imaging

MA 11 15:15-19:15 HSZ 103
Magnetic Materials

Metal and Material Physics Division (MM)

Invited and Topical Talks

- MM 1.1 10:15-10:45 IFW A
Fabrication and Properties of
Nanoporous Metals by Electrochemical
Dealloying
•*Jonah Erlebacher*
- MM 1.2 10:45-11:15 IFW A
The role of surface chemistry on the
properties of nanoporous gold
•*Juergen Biener, Arne Wittstock, Luis A.
Zepeda-Ruiz, Monika M. Biener, Volker
Zielasek, Domink Kramer, Raghavan N.
Viswanath, Joerg Weissmüller, Marcus
Baeumer, Alex V. Hamza*
- MM 2.1 12:00-12:30 IFW A
Plastic deformation of macroscopic
nanoporous metals
•*Hai-Jun Jin*
- MM 7.1 14:00-14:30 IFW A
Non-destructive residual stress analysis
with neutrons
•*Michael Hofmann*
- MM 8.1 14:45-15:15 IFW A
Geordnetes nanoporöses
Aluminiumoxid: Ein vielseitiges
Templatsystem
•*Ulrich Gösele*
- MM 8.2 15:15-15:45 IFW A
Porous silicon as functionalized
magnetic material
•*Heinz Krenn, Klemens Rumpf, Petra
Granitzer*
- MM 8.3 15:45-16:15 IFW A
Nanoporous gold: surface chemistry
and catalysis
•*Marcus Bäumer*

Sessions

MM 1	10:15-11:45	IFW A	Topical Session Nanoporous Functional Materials I
MM 2	12:00-13:00	IFW A	Topical Session Nanoporous Functional Materials II
MM 3	10:30-11:30	IFW B	Mechanical Properties I
MM 4	11:45-13:00	IFW B	Mechanical Properties II
MM 5	10:15-11:45	IFW D	Materials Design I
MM 6	12:00-13:00	IFW D	Materials Design II
MM 7	14:00-14:30	IFW A	HV Hofmann
MM 8	14:45-16:30	IFW A	Topical Session Nanoporous Functional Materials III
MM 9	14:45-15:45	IFW B	Intermetallic Phases I
MM 10	16:00-16:45	IFW B	Intermetallic Phases II
MM 11	14:45-16:15	IFW D	Growth

Surface Science Division (O)**Invited and Topical Talks**

O 2.1	10:15-11:00	HSZ 02	Surface Science from Hours to Attoseconds: Mind the Gap • <i>Michael Horn-von Hoegen</i>
O 8.1	11:15-11:45	SCH 251	

Atmospheric pressure graphitization of SiC: a route towards wafer-size graphene films

K.V. Emtsev, A. Bostwick, K. Horn, J. Jobst, G.L. Kellog, L. Ley, J.L. McChesney, T. Ohta, S.A. Reshanov, J. Röhl, E. Rotenberg, A.K. Schmid, D. Waldmann, H.B. Weber, •Th. Seyller

- 0 9.1 14:00-14:45 HSZ 02
Surface-confined coordination chemistry with porphyrins and phthalocyanines
•*J. Michael Gottfried*
- 0 15.1 15:00-15:30 SCH 251
Structure and Growth of Epitaxial Graphene on SiC: a New Platform for Carbon Electronics
•*Edward Conrad*
- Sessions**
- 0 2 10:15-11:00 HSZ 02
Invited Talk (Michael Horn-von Hoegen)
- 0 3 11:15-13:00 SCH A01
Oxides and insulators I
- 0 4 11:15-13:00 SCH A118
Metal substrates: Adsorption of organic / bio molecules I
- 0 5 11:15-13:00 SCH A215
Nanostructures at surfaces: Wires, tubes
- 0 6 11:15-13:00 SCH A216
Electronic structure I
- 0 7 11:15-13:00 SCH A315
Semiconductor substrates
- 0 8 11:15-12:45 SCH 251
Focused Session: Epitaxial Graphene I
- 0 9 14:00-14:45 HSZ 02
Invited Talk (J.Michael Gottfried)

- O 10 15:00-16:45 SCH A01
Oxides and insulators II
- O 11 15:00-16:45 SCH A118
Metal substrates: Adsorption of organic
/ bio molecules II
- O 12 15:00-16:30 SCH A215
Nanostructures at surfaces: Dots,
particles, clusters I (magnetic)
- O 13 15:00-16:45 SCH A216
Electronic structure II
- O 14 15:00-16:45 SCH A316
Organic, polymeric, biomolecular films
- also with absorbates I
- O 15 15:00-16:30 SCH 251
Focused Session: Epitaxial Graphene II

Low Temperature Physics Division (TT)

Invited and Topical Talks

- TT 1.1 10:15-10:45 HSZ 03
Strongly Correlated Fermionic Quantum
Gases in Optical Lattices
•*Immanuel Bloch*
- TT 1.2 10:45-11:15 HSZ 03
Mott transition and metastable
superconductivity of repulsive Fermions
in optical lattices
•*Achim Rosch*
- TT 1.3 11:15-11:45 HSZ 03
Carrier dynamics of two-dimensional
organic charge-transfer salts close to
the Mott transition
•*Martin Dressel, Natalia Drichko,
Michael Dumm, Jaime Merino*
- TT 1.4 12:00-12:30 HSZ 03
Mott Transition in Frustrated Lattice
Systems
•*Hirokazu Tsunetsugu*

- TT 1.5 12:30-13:00 HSZ 03
Lattice Effects in Strongly Correlated π -electron Systems Close to the Mott Transition
•*M. de Souza, A. Bruehl, C. Strack, B. Wolf, R.S. Manna, J.A. Schlueter, D. Schweitzer, M. Lang*
- TT 4.1 11:15-11:45 HSZ 105
Stimulated Cooperative Dynamics in Complex Solids
•*Andrea Cavalleri*
- Sessions**
- TT 1 10:15-13:00 HSZ 03
Focussed Session: The Mott Transition in Model Systems
- TT 2 10:15-13:00 HSZ 301
Transport: Nanoelectronics I - Quantum Dots and Wires, Point Contacts 1
- TT 3 10:15-13:00 HSZ 304
Correlated Electrons: Spin Systems and Itinerant Magnets 1
- TT 4 11:15-13:00 HSZ 105
Matter at Low Temperature: Cryotechnique, Cryodetectors and Measuring Devices
- TT 5 13:00-16:45 P1A
Postersession Superconductivity: Materials - Fabrication and Properties
- TT 6 13:00-16:45 P1A
Postersession Correlated Electrons: (General) Theory, Low-Dimensional Systems, Kondo Physics, Heavy Fermions, Quantum-Critical Phenomena
- TT 7 13:00-16:45 P1B
Postersession Matter at Low Temperature: Materials
- TT 8 13:00-16:45 P1B
Postersession Transport: Graphene and Carbon Nanotubes

TT 9	14:00-16:45	HSZ 03	Correlated Electrons: Metal-Insulator Transition 1
TT 10	14:00-16:30	HSZ 105	Superconductivity: Tunneling, Josephson Junctions, SQUIDS
TT 11	14:00-16:45	HSZ 301	Transport: Nanoelectronics I - Quantum Dots and Wires, Point Contacts 2
TT 12	14:00-16:00	HSZ 304	Correlated Electrons: Spin Systems and Itinerant Magnets 2

Vacuum Science and Technology Division (VA)

Invited Talks

VA 1.1	10:30-11:10	HSZ 101	ITER, the next step to clean energy by fusion - Size matters • <i>Christian Day</i>
VA 3.1	14:00-14:45	HSZ 101	Thin Film Silicon Solar Cells and Modules: From R&D Lab Developments to Large-area Production Tools • <i>Ulrich Kroll et al.</i>
VA 3.2	14:45-15:30	HSZ 101	Singulus Bluline II BD50 Enabling the Blu-ray Future with Unlimited Space • <i>Stephan Hotz</i>

Sessions

VA 1	10:30-12:10	HSZ 101	ITER - The new international fusion reactor
VA 2	12:15-12:55	HSZ 101	Ultra-high vacuum UHV
VA 3	14:00-15:30	HSZ 101	Challenging vacuum applications

- VA 4 15:30-16:10 HSZ 101
Diffusion, magnetic thin films
- 16:20-17:00 HSZ 101
Annual General Meeting of the Vacuum
Science and Technology Division

Working Group on Physics of Socio-economic Systems (AGSOE)

Invited Talk

- AGSOE 2.1 09:30-10:15 BAR 205
Anatomy of financial crashes: an agent
based model of the leverage cycle
•*Stefan Thurner*

Sessions

- AGSOE 2 09:30-10:15 BAR 205
Financial Markets and Risk
Management I
- AGSOE 3 10:15-12:45 BAR 205
Financial Markets and Risk
Management II
- AGSOE 4 14:00-16:00 BAR 205
Financial Markets and Risk
Management III
- AGSOE 5 16:00-17:45 BAR 205
Social Systems, Opinion and Group
Dynamics
- AGSOE 6 18:00-19:00 BAR 205
Annual General Meeting of the Working
Group on Physics of Socio-economic
Systems

Symposium Anderson Localization in Nonlinear and Many-Body Systems (SYAL)

Invited Talks

- SYAL 1.1 14:00-14:30 BAR SCHÖ
Delocalization by nonlinearity and
interactions in systems with disorder
•*Dima Shepelyansky*

- SYAL 1.2 14:30-15:00 BAR SCHÖ
 Absence of Diffusion in a Fröhlich-Spencer-Wayne model for nonlinear random systems
 •*Serge Aubry*
- SYAL 1.3 15:00-15:30 BAR SCHÖ
 Anderson localization and nonlinearity in disordered photonic lattices
 •*Yaron Silberberg*
- SYAL 1.4 15:30-16:00 BAR SCHÖ
 Many Body Localization
 •*Boris Altshuler*
- SYAL 1.5 16:00-16:30 BAR SCHÖ
 Localized states and interaction induced delocalization in Bose gases with quenched disorder
 •*Thomas Nattermann*
- SYAL 1.6 16:30-17:00 BAR SCHÖ
 Single-particle and many-body Anderson localizations with Bose-Einstein condensates
 •*Laurent Sanchez-Palencia*
- Session**
- SYAL 1 14:00-17:00 BAR SCHÖ
 Anderson Localization in Nonlinear and Many-Body Systems

Symposium SKM Dissertation Prize 2009 (SYDI)

Session

- SYDI 1 10:30-12:30 BAR SCHÖ
 SKM Dissertation Prize 2009

Job Market

- 13:30 HSZ 2001
 Shaping the future of light at OSRAM Opto Semiconductors

Poster Exhibition “Maps of Science” by Katy Borner et al.

09:00 - 17:00

HSZ, 3rd floor

Tuesday, March 24, 2009

Plenary Talks

PV IV

08:30-09:15

HSZ 01

Quantum Hall Phases “seen” as
Quantum Liquids

• *Aron Pinczuk, T.D. Rhone, J. Yan, Y. Gallais, J. Groshaus, I. Dujovne, C. Hirjibehedin, L.N. Pfeiffer, K.W. West*

PV V

13:00-13:45

HSZ 01

Lévy Random Walks: From the Dispersal
of Dollar Bills to New Models for the
Forecast of Epidemics

• *Theo Geisel (Gentner-Kastler-Prize
2009)*

Special Plenary Session with Prize Ceremony

16:30-18:30

HSZ 01

Biological Physics Division (BP)

Invited Talks

BP 8.1

09:30-10:00

HÜL 186

Robustness and Scaling in Embryonic
Development

• *Naama Barkai*

BP 8.2

10:00-10:30

HÜL 186

The R8 race: Specifying photoreceptor
cells in the developing fly eye

• *David Lubensky*

BP 10.1

14:00-14:30

HÜL 186

Biohydrodynamics of biomimetic and
bacterial flagella

• *Holger Stark*

Tue

Sessions

BP 8	09:30-13:00	HÜL 186
	Developmental Processes	
BP 9	10:45-13:15	ZEU 260
	Actin Dynamics	
BP 10	14:00-16:30	HÜL 186
	Biofluidynamics	
BP 11	14:30-16:30	ZEU 260
	Novel Methods	

Chemical and Polymer Physics Division (CPP)**Invited Talks**

CPP 19.1	09:30-10:00	ZEU 222
	Ferrofluids and their Rheology	
	• <i>Stefan Odenbach</i>	
CPP 19.2	10:00-10:30	ZEU 222
	Field-dependent structure and rheology of magnetic fluids as seen from theory and simulations	
	• <i>Patrick Ilg</i>	
CPP 19.4	11:00-11:30	ZEU 222
	Mechanical Properties of Uniaxial Magnetic Gels	
	• <i>Philippe Martinoty</i>	

Sessions

CPP 11	14:00-16:30	P3
	POSTERS Amphiphilic Systems	
CPP 12	14:00-16:30	P3
	POSTERS Magnetic Soft Matter	
CPP 13	14:00-16:30	P3
	POSTERS Polymer Physics	
CPP 14	14:00-16:30	P3
	POSTERS Nanoparticles	
CPP 15	14:00-16:30	P3

POSTERS Dynamics and Diffusion

CPP 16	14:00-16:30	P3	POSTERS Polyelectrolytes and Biological Systems
CPP 17	09:30-12:15	ZEU 160	Confined Fluids
CPP 18	09:30-12:30	ZEU 114	Polyelectrolytes
CPP 19	09:30-12:30	ZEU 222	Focus: Magnetic Soft Matter I

Dielectric Solids Division (DF)**Invited Talk**

DF 7.1	14:00-14:35	WIL A317	Origins of large piezoelectric response and lead-free alternatives to PZT • <i>Dragan Damjanovic</i>
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Sessions

DF 6	09:30-12:30	P5	Poster I
DF 7	14:00-16:20	WIL A317	Advanced Dielectrics
DF 8	10:00-12:40	WIL B321	Glass I
DF 9	14:00-16:00	WIL B321	Glass II

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

DS 12.1	09:30-10:15	GER 38	Nanoscale Profiling of Electron Transport in Metallic and Semimetal films <i>Chaehwi Chong, Yunfei Wang, •Robert Geer</i>
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- DS 13.1 10:30-11:00 GER 38
 Metrologie der Mikro- und
 Nanostrukturen mittels
 Rastersondenmikroskopie
 •*Teodor Gotszalk*
- DS 14.1 14:15-15:00 GER 38
 Optimal plasmonic focusing with thin
 film metrology applications
 •*Qiwen Zhan, Weibin Chen*
- DS 15.1 15:15-15:45 GER 38
 Investigations of electrophysical
 properties of thin films with embedded
 nanoparticles by means of an
 immitance meter
Viktoria V. Malyutina-Bronskaya,
 •*Valerii B. Zaleskii, Tamara R. Leonova*

Sessions

- DS 9 09:30-10:45 GER 37
 Metal Layers
- DS 10 11:00-12:45 GER 37
 Surface Modification
- DS 11 14:00-16:00 GER 37
 Layer Growth: Evolution of Structure
 and Simulation
- DS 12 09:30-10:15 GER 38
 Invited Geer
- DS 13 10:30-12:00 GER 38
 Thin Film Metrology for Electronics,
 Photonics, and Photovoltaics I
- DS 14 14:15-15:00 GER 38
 Invited Zhan
- DS 15 15:15-16:30 GER 38
 Thin Film Metrology for Electronics,
 Photonics, and Photovoltaics II
- DS 16 09:30-12:30 P5
 Poster I

Dynamics and Statistical Physics Division (DY)

Invited Talks

- DY 7.1 09:30-10:00 HÜL 386
Statistical Mechanics of systems with
long range interactions.
•*David Mukamel*
- DY 10.1 14:00-14:30 HÜL 386
Self-Dynamics of a Slender Rod
•*Thomas Franosch*

Sessions

- DY 7 09:30-13:00 HÜL 386
Statistical physics II (general)
- DY 8 10:00-12:40 WIL B321
Glasses I (joint session DY/DF)
- DY 9 10:15-12:45 ZEU 255
Nonlinear dynamics, synchronization
and chaos II
- DY 10 14:00-16:00 HÜL 386
Brownian motion and transport I
- DY 11 14:00-16:00 WIL B321
Glasses II (joint session DY/DF)
- DY 12 14:30-16:30 P1A
Poster I
- DY 13 14:45-15:45 ZEU 255
Statistical physics III (general)

Semiconductor Physics Division (HL)

Invited and Topical Talks

- HL 11.1 09:30-10:00 HSZ 01
Characterization and Control
of Recombination Dynamics in
Low-dimensional InGaN-based
Semiconductors
•*Yoichi Kawakami, Akio Kaneta, Masaya
Ueda, Mitsuru Funato*

- HL 11.2 10:00-10:30 HSZ 01
Optical polarization properties of nonpolar-oriented GaN films for polarization-sensitive and narrow-band photo-detectors
•*Holger T. Grahn*
- HL 11.3 10:45-11:15 HSZ 01
Growth and characterisation of planar (11-20) and (11-22) GaN-based multiple quantum well structures
•*Menno Kappers*
- HL 11.4 11:15-11:45 HSZ 01
Materials issues towards green laser diodes
•*Andreas Hangleiter*
- HL 20.1 14:00-14:45 HSZ 01
Electron spin coherence in singly charged quantum dots
•*Dmitri R. Yakovlev*
- HL 22.1 14:00-14:30 BEY 118
Optical anisotropy of nitride semiconductors
•*Rüdiger Goldhahn*
- HL 22.2 14:30-15:00 BEY 118
Growth on nonpolar and semipolar GaN: The substrate dilemma
•*T. Wernicke, M. Weyers, M. Kneissl*
- HL 22.3 15:00-15:30 BEY 118
Microscopic Correlation of Structural, Electronical and Optical Properties of semi- and non-polar grown Group-III-Nitrides
•*Frank Bertram*
- HL 24.1 14:45-15:30 HSZ 01
Phase coherent transport in (Ga,Mn)As
•*D. Neumaier, K. Wagner, U. Wurstbauer, M. Reinwald, W. Wegscheider, D. Weiss*

Sessions

HL 11	09:30-12:45	HSZ 01	Focused Session: Semi- and nonpolar group III nitrides I
HL 12	09:30-12:30	BEY 81	Spin controlled transport I
HL 13	09:30-13:00	BEY 118	Optical properties
HL 14	09:30-10:00	BEY 154	Preparation and characterization
HL 15	09:30-13:00	POT 51	C/diamond I
HL 16	09:30-12:00	POT 151	III-V semiconductors II
HL 17	10:00-13:00	BEY 154	Quantum wires: Optical and transport properties
HL 18	12:00-13:00	POT 151	Impurities/amorphous semiconductors
HL 19	12:30-13:00	BEY 81	Theory of electronic structure
HL 20	14:00-14:45	HSZ 01	Invited Talk Yakovlev
HL 21	14:00-16:00	BEY 81	Devices
HL 22	14:00-16:30	BEY 118	Focused Session: Semi- and nonpolar group III nitrides II
HL 23	14:00-15:15	BEY 154	Transport in high magnetic field/ quantum-Hall-effect
HL 24	14:45-15:30	HSZ 01	Invited Talk Neumaier

HL 25 16:00-16:30 POT 51
C/diamond II

Magnetism Division (MA)

Invited Talk

MA 12.1 09:30-10:00 HSZ 04
Electron theory of fast and ultrafast
dissipative magnetization dynamics
•*Manfred Fähnle, Daniel Steiauf, Jonas
Seib*

Sessions

MA 12 09:30-10:00 HSZ 04
Invited Talk Fähnle

MA 13 10:15-13:00 P1A
Poster Ia: Electron Theory (1); Magnetic
Imaging (2,3); Thin Films (4-25); MSMA
(26-33); Magn. Semiconductors (34-42);
Magn. Half Metals and Oxides (43-60)

MA 14 10:15-13:00 P1B
Poster Ib: Magnetic Materials (1-14);
Micro Magnetism/Computational Mag.
(15-17); Surface Magnetism (18-22);
Spin Structures/Phase Transitions (23-
25)

MA 15 14:00-16:15 HSZ 04
ThyssenKrupp Dissertationspreis der
AG Magnetismus

Metal and Material Physics Division (MM)

Invited and Topical Talks

MM 12.1 09:30-10:00 IFW A
Small scale mechanical testing:
Challenges and benefits
•*Gerhard Dehm*

MM 13.1 10:15-10:45 IFW A
Small-Angle Neutron Scattering in
Materials Science

•*Pavel Strunz, Debashis Mukherji, Gerhard Schumacher, Ralph Gilles, Albrecht Wiedenmann*

- MM 14.1 11:45-12:15 IFW A
Anomalous small-angle X-ray scattering
in material science
•*Armin Hoell*
- MM 15.1 10:15-10:45 IFW B
Fluidics with Nanoporous Solid-State
Membranes: From Fundamental Physics
to Applied Biology
•*Patrick Huber*
- MM 19.1 14:00-14:30 IFW A
Diffusion, interface shifts and solid
state reactions in nanoscale
•*Dezso L. Beke, Zoltan Erdélyi, Zoltan
Balogh, Csaba Cserhádi, Gabor A.
Langer, Gabor L. Katona*

Sessions

- MM 12 09:30-10:00 IFW A
HV Dehm
- MM 13 10:15-11:30 IFW A
Topical Session Nanoanalytics using
Small-Angle Scattering I
- MM 14 11:45-12:45 IFW A
Topical Session Nanoanalytics using
Small-Angle Scattering II
- MM 15 10:15-11:15 IFW B
Topical Session Nanoporous Functional
Materials IV
- MM 16 11:30-12:30 IFW B
Diffusion and Point Defects I
- MM 17 10:15-11:45 IFW D
Mechanical Properties III
- MM 18 12:00-13:00 IFW D
Mechanical Properties IV

MM 19	14:00-14:30 HV Beke	IFW A
MM 20	14:45-16:30 Poster Session I	P4
MM 21	14:45-16:30 Topical Session Nanoporous Functional Materials - Poster	P4
MM 22	14:45-16:30 Topical Session Nanoanalytics using Small-Angle Scattering - Poster	P4
MM 23	14:45-16:30 Topical Session Heterogeneous Nucleation and Initial Evolution of Microstructure - Poster	P4

Surface Science Division (O)

Invited and Topical Talks

O 16.1	09:30-10:15 Electron Transport through Single Atoms and Molecules: an STM's View • <i>Jörg Kröger</i>	HSZ 02
O 22.1	10:30-11:00 Structural and electronic properties of graphene on Ru(0001) • <i>Sebastian Günther</i>	SCH 251
O 22.2	11:00-11:30 Unraveling the strong interaction between graphene monolayer and Ru(0001) : a DFT-based STM and STS study • <i>Marie-Laure Bocquet, Bin Wang</i>	SCH 251
O 23.1	14:00-14:45 Surfaces and Atomic Nanostructures - Model Systems for Spectroscopy of Confined Interacting Electrons • <i>Jörg Schäfer</i>	HSZ 02

Sessions

- O 16 09:30-10:15 HSZ 02
Invited Talk (Jörg Kröger)
- O 17 10:30-13:00 SCH A01
Oxides and insulators III
- O 18 10:30-12:45 SCH A118
Metal substrates: Adsorption of organic
/ bio molecules III
- O 19 10:30-12:45 SCH A215
Nanostructures at surfaces: Arrays
- O 20 10:30-13:00 SCH A216
Nano-optics of metallic and
semiconducting nanostructures (time
resolved)
- O 21 10:30-12:00 SCH A316
Methods: Electronic structure theory I
- O 22 10:30-13:00 SCH 251
Focused Session: Epitaxial Graphene III
- O 23 14:00-14:45 HSZ 02
Invited Talk (Jörg Schäfer)
- O 24 15:00-16:15 SCH A01
Methods: Molecular simulations and
statistical mechanics
- O 25 15:00-16:15 SCH A118
Surfaces and films: forces, structure
and manipulation
- O 26 15:00-16:45 SCH A215
Nanostructures at surfaces: Dots,
particles, clusters II (SPM)
- O 27 18:30-21:00 P2
Poster Session I (Methods: Scanning
probe techniques; Methods: Atomic
and electronic structure; Methods:
Molecular simulations and statistical
mechanics; Oxides and Insulators:
Clean surfaces; Oxides and Insulators:
Adsorption; Oxides and Insulators:

Epitaxy and growth; Semiconductor substrates: Clean surfaces; Semiconductor substrates: Epitaxy and growth; Semiconductor substrates: Adsorption; Nano- optics of metallic and semiconducting nanostructures; Electronic structure; Methods: Electronic structure theory; Methods: other (experimental); Methods: other (theory); Solutions on surfaces; Epitaxial Graphene; Surface order interface magnetism; Phase transitions; Time-resolved spectroscopies)

Low Temperature Physics Division (TT)

Invited and Topical Talks

- TT 13.1 09:30-10:00 HSZ 03
Photons, Qubits and Computers - A Quantum Mechanics Lab on a Chip
•*Andreas Wallraff*
- TT 13.2 10:00-10:30 HSZ 03
Two-photon probe of the Jaynes-Cummings model and controlled symmetry breaking in circuit QED
Frank Deppe, Matteo Mariani, Edwin P. Menzel, •Achim Marx, Rudolf Gross, S. Saito, K. Kakuyanagi, H. Tanaka, K. Semba, T Meno, H. Takayanagi, E. Solano
- TT 13.3 10:30-11:00 HSZ 03
Landau-Zener Transitions in Qubit-Oscillator Settings
•*Sigmund Kohler*
- TT 13.4 11:15-11:45 HSZ 03
Experiments on the quantum of heat conductance
•*Jukka Pekola, Matthias Meschke, Andrey Timofeev, Wiebke Guichard, Meri Helle, Mikko Möttönen*
- TT 13.5 11:45-12:15 HSZ 03

Preparation of arbitrary quantum states in a microwave resonator

•*Max Hofheinz, Haohua Wang, Markus Ansmann, Radoslaw Bialczak, Erik Lucero, Matthew Neeley, Aaron O'Connell, Daniel Sank, James Wenner, John Martinis, Andrew Cleland*

- TT 14.4 10:15-10:45 HSZ 105
Evidence for a novel superconducting state in high magnetic fields
•*Joachim Wosnitza*
- TT 16.8 11:30-12:00 HSZ 304
Two Dimensional Electron Gases at Oxide Interfaces
•*Jochen Mannhart*
- TT 21.1 14:00-14:30 HSZ 304
Correlated charge detection in quantum dots
•*Klaus Ensslin*
- Sessions**
- TT 13 09:30-12:30 HSZ 03
Focussed Session: Superconducting Quantum Circuits
- TT 14 09:30-12:15 HSZ 105
Superconductivity: Non-Cuprate Non-Ferropnictide Superconductors
- TT 15 09:30-13:00 HSZ 301
Correlated Electrons: Metal-Insulator Transition 2
- TT 16 09:30-13:00 HSZ 304
Correlated Electrons: Low-dimensional Systems - Materials 1
- TT 17 14:00-16:15 HSZ 03
Correlated Electrons: Quantum-Critical Phenomena 1
- TT 18 14:00-16:00 HSZ 105
Superconductivity: Fabrication and Characterization

TT 19	14:00-15:15	HSZ 301	Correlated Electrons: Metal-Insulator Transition 3
TT 20	15:30-16:30	HSZ 301	Correlated Electrons: (General) Theory 1
TT 21	14:00-16:15	HSZ 304	Transport: Fluctuations and Noise

Working Group on Physics of Socio-economic Systems (AGSOE)

Invited Talk

AGSOE 7.1	09:30-10:15	BAR 205	Growth, Innovation, Scaling, and the Pace of Life in Cities • <i>Luis Bettencourt</i>
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Sessions

AGSOE 7	09:30-10:15	BAR 205	Traffic Dynamics, Urban and Regional Systems I
AGSOE 8	10:15-12:45	BAR 205	Traffic Dynamics, Urban and Regional Systems II
AGSOE 9	14:00-16:00	BAR 205	Economic Models and Evolutionary Game Theory I

Symposium Transport in Graphene (SYTG)

Invited Talks

SYTG 1.1	14:00-14:30	BAR SCHÖ	The nature of localization in graphene under quantum Hall conditions • <i>Jurgen Smet</i>
SYTG 1.2	14:30-15:00	BAR SCHÖ	Electronic Transport in Graphene Nanostructures

•Thomas Ihn, Christoph Stampfer,
Johannes Güttinger, Françoise Molitor,
Stephan Schnez, Arnhild Jacobsen,
Klaus Ensslin

SYTG 1.3 15:00-15:30 BAR SCHÖ
Spins and valley-spins in graphene
nanostructures
•Inanc Adagideli

SYTG 1.4 15:30-16:00 BAR SCHÖ
Theory of ballistic transport in
graphene
•Bjoern Trauzettel

Session

SYTG 1 14:00-16:00 BAR SCHÖ
Symposium: Transport in Graphene

Job Market

13:30 HSZ 201
Das Forschungszentrum Jülich, “Physik
und mehr...”

15:00 HSZ 201
Als Physiker in die Beratung, The
Boston Consulting Group stellt sich vor

Poster Exhibition “Maps of Science” by Katy Borner et al.
09:00 - 17:00 HSZ, 3rd floor

Exhibition of scientific instruments and literature
09:00-17:00 Foyer HSZ, Marquees

Wednesday, March 25, 2009

Plenary Talk

PV VI 08:30-09:15 HSZ 01
Developing Physical Tools for Biology:
From the Quantitative Understanding of
Life Processes to Applications in Medicine
•X. Sunney Xie

Biological Physics Division (BP)

Invited Talks

- BP 12.1 09:30-10:00 HÜL 186
Conformational Mechanics of Single
Protein Molecules
•*Matthias Rief*
- BP 12.2 10:00-10:30 HÜL 186
Illuminating the way Kinesin-1 walks
using FRET between the motor domains
•*Erwin Peterman*
- BP 14.1 14:00-14:30 HÜL 186
Nerve signals as density pulses,
conduction events, and the role of
anesthetics
•*Thomas Heimburg*

Sessions

- BP 12 09:30-13:15 HÜL 186
Single Molecules
- BP 13 10:45-13:15 ZEU 260
Cell Migration
- BP 14 14:00-17:15 HÜL 186
Neuronal and Sensory Systems
- BP 15 14:30-15:45 ZEU 260
Motor Proteins
- BP 16 16:00-17:15 ZEU 260
Stochastic Processes
- BP 17 17:15-19:45 P3
Poster II

Chemical and Polymer Physics Division (CPP)

Invited and Topical Talks

- CPP 20.1 09:30-10:00 ZEU 222
Truncated patterning in the normal field
instability
•*Andreas Boudouvis*

- CPP 20.6 11:15-11:45 ZEU 222
Using triaxial magnetic fields to form
optimized particle composites
•*James Martin*
- CPP 22.1 09:30-10:00 ZEU 160
Charge transport in doped poly (p-
phenylene vinylene)
Y. Zhang, B. de Boer, •P. W. M. Blom
- CPP 22.2 10:00-10:30 ZEU 160
A realistic description of the charge
carrier wavefunction in microcrystalline
polymer semiconductors
•*Alessandro Troisi, David L. Cheung,
David P. McMahon*
- CPP 22.3 10:30-11:00 ZEU 160
Influence of microstructure on transport
and recombination in conjugated
polymer:fullerene blend films
•*Jenny Nelson, Amy Ballantyne,
Mariano Campoy-Quiles, Toby Ferenczi,
Jarvist Frost, Panos Keivanides, Ji-
Seon Kim, James Kirkpatrick, Christian
Mueller, Donald Bradley, James Durrant,
Paul Smith, Natalie Stingelin*
- CPP 22.4 11:00-11:30 ZEU 160
Charge transport along isolated
conjugated molecular wires
•*Ferdinand C. Grozema, Laurens D.A.
Siebbeles*
- CPP 22.5 11:30-12:00 ZEU 160
Charge transport: a multiscale model in
polymers
•*James Kirkpatrick*
- CPP 22.6 12:00-12:30 ZEU 160
From amorphous polymers to discotic
liquid crystals - Measuring charge
carrier mobility with the time-of-flight
technique
•*Frederic Laquai, Dirk Hertel, Marcel
Kastler, Klaus Muellen, Gerhard Wegner*

Sessions

CPP 20	09:30-12:30	ZEU 222	Focus: Magnetic Soft Matter II
CPP 21	09:30-12:30	ZEU 114	Polymer Physics II
CPP 22	09:30-12:30	ZEU 160	Fokus: Conjugated Polymers
CPP 23	14:00-17:00	ZEU 114	Electronic and Optical Properties
CPP 24	14:00-15:15	ZEU 160	Colloids
CPP 25	15:30-17:15	ZEU 160	Diffusion and Dynamics
CPP 26	14:00-17:00	ZEU 222	Organic Photovoltaics I
CPP 27	14:00-17:15	BAR SCHÖ	Symposium Self-Organizing Surfaces and Interfaces
CPP 28	17:00-19:00	P3	POSTERS Interfaces and Thin Films
	19:00-20:00	ZEU 160	Annual General Meeting of the Chemical and Polymer Division

Dielectric Solids Division (DF)

Invited Talks

DF 10.1	10:00-10:35	WIL A317	Photoswitchable Complexes: Properties and Applications • <i>Dominik Schaniel</i>
DF 11.1	14:30-15:05	WIL A317	Real-time probing of structural dynamics in perovskite materials • <i>Thomas Elsaesser</i>

Sessions

DF 10	10:00-12:40	WIL A317	Photonic Dielectrics I
DF 11	14:30-17:10	WIL A317	Photonic Dielectrics II
DF 12	09:30-12:30	P5	Poster II
DF 13	14:40-17:00	WIL B321	Thin Films and Nanostructures I
	17:30-18:00	WIL A317	Annual General Meeting of the Dielectric Solids Division

Thin Films Division (DS)

Invited and Topical Talks

DS 19.1	14:45-15:30	GER 37	Integrated Inductors using Amorphous Magnetic Materials • <i>Donald S. Gardner, Gerhard Schrom, Fabrice Paillet, Tanay Karnik, Shekhar Borkar</i>
DS 20.1	15:45-16:15	GER 37	Amorphous magnetostrictive thin films for sensor applications • <i>Eckhard Quandt</i>
DS 20.2	16:15-16:45	GER 37	Thermodynamic stability and crystallization of amorphous thin magnetic films • <i>Ulrich Herr, Andreas Grob, Mohammad Mujeebuddin, Xiaoxi He, Senthilnathan Mohanan, Rolf Diebold, Raimund Hibst</i>
DS 20.3	16:45-17:15	GER 37	Magnetism in FeZr-based multilayers - stability, coupling, dimensionality • <i>Andreas Liebig, Panagiotis Korelis, Gabriella Andersson, Hans Lidbaum, Klaus Leifer, Björgvin Hjörvarsson</i>

Sessions

DS 17	09:30-11:00	GER 37	Layer Properties: Electrical, Optical and Mechanical Properties I
DS 18	11:15-12:30	GER 37	Layer Properties: Electrical, Optical and Mechanical Properties II
DS 19	14:45-15:30	GER 37	Invited Gardner
DS 20	15:45-17:30	GER 37	Amorphous Thin Magnetic Films
DS 21	09:30-11:00	GER 38	Organic Thin Films I
DS 22	11:15-13:00	GER 38	Organic Thin Films II
DS 23	14:45-16:15	GER 38	Organic Thin Films III
DS 24	16:30-17:45	GER 38	Organic Thin Films IV
DS 25	18:00-19:00	GER 37	Organic Thin Films V
DS 26	09:30-12:30	P5	Poster II
DS 27	14:00-14:45	HSZ 02	Gaede Prize: Jürgen Fassbender

Dynamics and Statistical Physics Division (DY)

Invited and Topical Talks

DY 14.1	09:45-10:15	HÜL 386	Turbulent convective transport - news and challenges • <i>Siegfried Grossmann</i>
DY 14.2	10:15-10:45	HÜL 386	What's up in quantum chaos?

•*Roland Ketzmerick*

DY 14.3 11:00-11:30 HÜL 386
Non-equilibrium work and fluctuation
theorems

•*Andreas Engel*

DY 14.4 11:30-12:00 HÜL 386
Computational Statistical Physics

•*Wolfhard Janke*

DY 14.5 12:00-12:30 HÜL 386
Towards a quantum Church-Turing
Theorem

•*Reinhard F. Werner*

DY 15.1 14:00-14:30 HÜL 386
Time-reversed waves and super-
resolution

•*Mathias Fink*

Sessions

DY 14 09:30-12:30 HÜL 386
Focused Session: 50 years DY: Trends in
dynamics and statistical physics

DY 15 14:00-16:00 HÜL 386
Quantum chaos I

DY 16 14:45-18:00 ZEU 255
Fluid dynamics I

DY 17 14:45-16:45 ZEU 118
Reaction-diffusion systems

DY 18 16:15-18:45 HÜL 386
Granular matter / contact dynamics

DY 19 17:00-18:00 ZEU 118
Quantum dynamics, decoherence and
quantum information

Semiconductor Physics Division (HL)

Invited and Topical Talks

- HL 26.1 09:30-10:00 HSZ 01
Nanoelectronics - Why 1D nanowires?
•*Joerg Appenzeller*
- HL 26.2 10:00-10:30 HSZ 01
Doping limits in silicon nanowires
•*Mikael Björk, Heinz Schmid, Joachim Knoch, Heike Riel, Walter Riess*
- HL 26.3 10:45-11:15 HSZ 01
Polarity control of silicon nanowire transistors by electrostatic coupling to the Schottky contacts
Walter Michael Weber, Lutz Geelhaar, Franz Kreupl, Henning Riechert, •Paolo Lugli
- HL 26.4 11:15-11:45 HSZ 01
Antimonide-based nanowire devices
•*Lars-Erik Wernersson*
- HL 26.5 12:00-12:30 HSZ 01
Rf-characterization of III-V-Nanowire FET: Problems and Results
•*Franz Tegude, Werner Prost*
- HL 26.6 12:30-13:00 HSZ 01
Semiconductor nanowires as building blocks for quantum devices
•*Thomas Schäpers, Sergio Estevez Hernandez, Gunnar Petersen, Robert Frielinghaus, Shima Alagha, Christian Blömers, Thomas Richter, Raffaella Calarco, Hans Lüth, Michel Marso, Michael Indlekofer*
- HL 31.1 13:00-13:45 HSZ 01
Optomechanics
•*Florian Marquardt (Walter-Schottky-Prize 2009)*
- HL 32.1 14:00-14:30 HSZ 01

Cavity Optomechanics using Optical
Microresonators

•*Tobias Kippenberg, Albert Schliesser,
Remi Riviere, Olivier Arcizet*

HL 32.2 14:30-15:00 HSZ 01
Experimental quantum optical control
of micromechanical resonators
•*Markus Aspelmeyer*

HL 32.3 15:00-15:30 HSZ 01
Optomechanical correlations between
light and mirrors
•*Antoine Heidmann, Pierre-Francois
Cohadon, Tristan Briant*

Sessions

HL 26 09:30-13:00 HSZ 01
Focused Session: Novel nanowires
electronic device concepts

HL 27 09:30-13:00 BEY 81
GaN: preparation and characterization I

HL 28 09:30-13:00 BEY 118
ZnO: preparation and characterization I

HL 29 09:30-13:00 BEY 154
Quantum dots: Optical properties II

HL 30 09:30-13:00 POT 51
Si/Ge

HL 31 13:00-13:45 HSZ 01
Walter Schottky Prize

HL 32 14:00-15:30 HSZ 01
Focused Session: Quantum
optomechanics

HL 33 14:00-17:15 BEY 81
Quantum wires: preparation and
characterization

HL 34 14:00-17:00 BEY 118
Spin controlled transport II

HL 35	14:00-17:45	BEY 154
	Semiconductor Laser	
HL 36	14:00-16:15	POT 51
	ZnO: preparation and characterization II	
HL 37	16:15-18:00	POT 51
	ZnO: devices	

Magnetism Division (MA)

Invited and Topical Talks

MA 16.1	09:30-10:00	HSZ 04
	Nonlinear optics on spin-spiral multiferroics	
	• <i>Thomas Lottermoser</i>	
MA 22.1	14:00-14:30	HSZ 04
	Quantum Transport through Single Molecular Magnets	
	• <i>Herbert Schoeller</i>	
MA 28.1	14:45-15:15	HSZ 101
	Gate-tunable magnetic exchange and giant g-factor fluctuations in InAs nanowire quantum dots	
	<i>Szabolcs Csonka, Lukas Hofstetter, Frank Freitag, •Christian Schönenberger, Thomas S. Jespersen, Martin Aagesen, Jesper Nygard</i>	
MA 28.2	15:15-15:45	HSZ 101
	Spin transport theory in carbon-based materials	
	• <i>Reinhold Egger</i>	
MA 28.3	15:45-16:15	HSZ 101
	Visualizing heat transport in quantum magnets	
	<i>Marian Otter, Dmitry Fishman, Viktor V. Krashnikov, Maxim S. Pshenichnikov, Romualt Saint-Martin, Alexander Revcolevschi, •Paul H.M. van Loosdrecht</i>	

Sessions

MA 16	09:30-10:00	HSZ 04	Invited Talk Lottermoser
MA 17	10:15-12:45	HSZ 04	Magnetic Thin Films I
MA 18	10:15-13:00	HSZ 401	Spin Structures and Magnetic Phase Transitions
MA 19	10:15-12:45	HSZ 403	Micro Magnetism / Computational Magnetism
MA 20	12:45-13:15	HSZ 403	Micro- and Nanostructured Magnetic Materials I
MA 21	10:15-13:00	HSZ 103	Magnetic Shape Memory Alloys I
MA 22	14:00-14:30	HSZ 04	Invited Talk Schoeller
MA 23	14:45-18:15	HSZ 04	Magnetic Thin Films II
MA 24	14:45-19:15	HSZ 401	Magnetic Semiconductors
MA 25	14:45-19:15	HSZ 403	Micro- and Nanostructured Magnetic Materials II
MA 26	14:45-16:30	HSZ 103	Magnetic Shape Memory Alloys II
MA 27	16:45-17:45	HSZ 103	Spin Electronics / Spininjection in Heterostructures
MA 28	14:45-17:45	HSZ 101	Focused Session: Spin Transport and Coherence in Emerging Materials
	18:30-19:30	HSZ 04	Annual General Meeting of the Magnetism Division

Metal and Material Physics Division (MM)

Invited and Topical Talks

- MM 24.1 09:30-10:00 IFW A
From eutectic alloys to metal nanowires
•*Achim Walter Hassel*
- MM 25.1 10:15-10:45 IFW A
Intermetallic phases for structural applications at high temperatures
•*Martin Palm*
- MM 25.2 10:45-11:15 IFW A
Deformation Behavior of Mo-Si-B Alloys
•*Sharvan Kumar*
- MM 30.1 14:00-14:30 IFW A
Precipitation-hardening of aluminium alloys - challenges and recent developments
•*John Banhart*
- MM 31.1 14:45-15:15 IFW A
Single-crystal nickel-base-superalloys: Correlation between high temperature properties and microstructure
•*Thomas Link, Alexander Epishin, Udo Brückner, Bernard Fedelich*
- MM 31.2 15:15-15:45 IFW A
Atomic site location by channelling enhanced microanalysis (ALCHEMI) in gamma-prime strengthened Ni- and Pt-base alloys
Christian Liebscher, Rainer Völkl, •Uwe Glatzel
- MM 32.1 16:45-17:15 IFW A
The formation and growth of Secondary Reaction Zones in coated 4th generation Ni-base Blade Alloys
•*Catherine Rae, Aya Suzuki*

Sessions

- MM 24 09:30-10:00 IFW A
HV Hassel

MM 25	10:15-12:15	IFW A	Topical Session High Temperature Materials I
MM 26	10:15-11:15	IFW B	Nanostructured Materials I
MM 27	11:30-12:45	IFW B	Interfaces I
MM 28	10:15-11:45	IFW D	Electronic Properties I
MM 29	12:00-13:00	IFW D	Diffusion and Point Defects II
MM 30	14:00-14:30	IFW A	HV Banhart
MM 31	14:45-16:30	IFW A	Topical Session High Temperature Materials II
MM 32	16:45-18:00	IFW A	Topical Session High Temperature Materials III
MM 33	14:45-16:30	IFW B	Phase Transitions I
MM 34	14:45-16:30	IFW D	Liquid and Amorphous Metals I
MM 35	16:30-18:30	P4	Poster Session II
	18:30-19:30	IFW B	Annual General Meeting of the Metal and Material Physics Division

Surface Science Division (O)

Invited and Topical Talks

O 28.1	09:30-10:15	HSZ 02	Catalytic Autothermal Reforming of Renewable Fuels at Millisecond Times • <i>Lanny Schmidt</i>
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- O 34.1 10:30-11:00 SCH 251
Looking through the Dirac window:
Graphene on Ir(111)
•*Carsten Busse*
- O 34.2 11:00-11:30 SCH 251
Exotic properties of graphene at
interfaces: spin filtering and mass
generation
•*Jeroen van den Brink*
- O 35.1 14:00-14:45 HSZ 02
Engineering surfaces, interfaces and
structural phases to tailor magnetic
properties
•*Jürgen Fassbender (Gaede-Prize 2009)*
- Sessions**
- O 28 09:30-10:15 HSZ 02
Invited Talk (Lanny Schmidt)
- O 29 10:30-12:45 SCH A01
Nanostructures at surfaces: preparation
- O 30 10:30-13:00 SCH A118
Metal substrates: Adsorption of organic
/ bio molecules IV
- O 31 10:30-12:30 SCH A216
Nano-optics of metallic and
semiconducting nanostructures
(theory)
- O 32 10:30-12:30 SCH A315
Surface or interface magnetism
- O 33 10:30-12:00 SCH A316
Methods: Electronic structure theory II
- O 34 10:30-13:00 SCH 251
Focused Session: Epitaxial Graphene IV
- O 35 14:00-14:45 HSZ 02
Invited Talk (Gaede Prize) (Jürgen
Fassbender)

- 0 36 15:00-16:45 SCH A01
Particles and clusters
- 0 37 15:00-17:30 SCH A118
Metal substrates: Adsorption of organic
/ bio molecules V
- 0 38 15:00-17:30 SCH A216
Nano-optics of metallic and
semiconducting nanostructures
(experiments I)
- 0 39 15:00-17:30 SCH A315
Metal substrates: Solid-liquid
interfaces
- 0 40 15:00-17:30 SCH A316
Methods: Scanning probe techniques I
- 0 41 15:00-17:30 SCH 251
Ab-initio approaches to excitations in
condensed matter I
- 0 42 17:45-20:30 P2
Poster Session II (Nanostructures at
surfaces: arrays; Nanostructures at
surfaces: Dots, particles, clusters;
Nanostructures at surfaces: Other;
Nanostructures at surfaces: Wires,
tubes; Metal substrates: Adsorption
of O and/or H; Metal substrates: Clean
surfaces; Metal substrates: Adsorption
of organic/bio molecules; Metal
substrates: Solid-liquid interfaces;
Metal substrates: Adsorption of
inorganic molecules; Metal substrates:
Epitaxy and growth; Heterogeneous
catalysis; Surface chemical reactions;
Ab-initio approaches to excitations in
condensed matter; Organic, polymeric,
biomolecular films- also with
adsorbates; Particles and clusters)

Low Temperature Physics Division (TT)

Invited Talks

TT 22.1 09:30-10:00 HSZ 03
Thermal expansion and
magnetostriction close to quantum
criticality
•*Markus Garst*

TT 24.5 10:30-11:00 HSZ 301
Theory of time-resolved optical and
photoemission spectroscopy for
correlated electron systems
•*Marcus Kollar*

TT 26.1 14:00-14:30 HSZ 03
Nanotube and Graphene
ElectroMechanics
•*Adrian Bachtold*

TT 28.1 15:15-15:45 HSZ 105
Unconventional Superconductivity
induced by Interfaces and Surfaces
•*Matthias Eschrig*

Sessions

TT 22 09:30-13:00 HSZ 03
Correlated Electrons: Quantum-Critical
Phenomena 2

TT 23 09:30-12:30 HSZ 105
Transport: Nanoelectronics III -
Molecular Electronics

TT 24 09:30-13:00 HSZ 301
Correlated Electrons: (General) Theory 2

TT 25 09:30-13:00 HSZ 304
Superconductivity: Cuprate High-
Temperature Superconductors 1

TT 26 14:00-19:00 HSZ 03
Transport: Graphene and Carbon
Nanotubes

TT 27 14:00-15:00 HSZ 105

	Superconductivity: Vortex Dynamics, Vortex Phases, Pinning
TT 28	15:15-18:00 HSZ 105 Superconductivity: Heterostructures, Andreev Scattering, Proximity Effect, Coexistence
TT 29	14:00-18:15 HSZ 301 Correlated Electrons: Low-dimensional Systems - Materials 2
TT 30	14:00-15:30 HSZ 304 Superconductivity: Cuprate High-Temperature Superconductors 2
TT 31	15:45-17:00 HSZ 304 Matter at Low Temperature: Materials
TT 32	14:00-18:00 P1A Postersession Superconductivity: Josephson Junctions, SQUIDs, Heterostructures, Andreev Scattering, Vortex Physics, Cryodetectors, Measuring Devices, Cryotechnique
TT 33	14:00-18:00 P1A Postersession Correlated Electrons: Metal Insulator Transition, Spin Systems and Itinerant Magnets
TT 34	14:00-18:00 P1A Postersession Matter at Low Temperature: Quantum Liquids, Bose-Einstein Condensates, Ultra-Cold Atoms
TT 35	14:00-18:00 P1A Postersession Transport: Nanoelectronics, Quantum Coherence and Quantum Information, Fluctuations and Noise

Vacuum Science and Technology Division (VA)

Session

VA 5	14:00-14:45 HSZ 02 Gaede Prize Talk
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Working Group on Industry and Business (AIW)

Sessions

AIW 1	10:00-12:30	POT 151
	DPG-Industrietag I	
AIW 2	14:00-16:15	POT 151
	DPG-Industrietag II	
AIW 3	16:15-17:00	POT 151
	Podiumsdiskussion	
AIW 4	17:00-18:00	POT 151
	Geselliges Beisammensein mit Schnittchen und Getränken	

Working Group on Physics of Socio-economic Systems (AGSOE)

Invited Talks

AGSOE 10.1	09:30-10:15	BAR 205
	Cooperation supported by Darwinian selection of evolutionary rules • <i>Gyorgy Szabo</i>	
AGSOE 13.1	16:15-17:00	HSZ 02
	The calculus of selfishness • <i>Karl Sigmund</i>	
AGSOE 13.2	17:15-17:55	HSZ 02
	Using the Web to do Social Science • <i>Duncan J. Watts</i>	
AGSOE 15.1	20:00-21:00	HSZ 01
	Wie Kooperation unter Egoisten entsteht • <i>Martin Nowak</i>	

Sessions

AGSOE 10	09:30-10:15	BAR 205
	Economic Models and Evolutionary Game Theory II	
AGSOE 11	10:15-12:45	BAR 205
	Economic Models and Evolutionary Game Theory III	

AGSOE 12	14:00-16:00	BAR 205
	Economic Models and Evolutionary Game Theory IV	
AGSOE 13	16:15-18:00	HSZ 02
	Award Ceremony: Young Scientist Award for Socio- and Econophysics	
AGSOE 14	18:00-20:00	P1B
	Poster Session	

Symposium Organic Photovoltaics: From Single Molecules to Devices (SYOP)

Session

SYOP 1	14:00-17:00	ZEU 222
	Organic Photovoltaics I	

Symposium Spin Coherence in Solids (SYSC)

Invited Talks

SYSC 1.1	09:30-10:00	BAR SCHÖ
	Optical Pumping of Nuclear Spins in Semiconductor Quantum Dots • <i>X. Marie, B. Urbaszek, T. Amand, O. Krebs, A. Lemaître, P. Voisin, B. Eble, C. Testelin, M. Chamarro</i>	
SYSC 1.2	10:00-10:30	BAR SCHÖ
	Dyakonov-Perel' Spin-Dynamics in GaAs Quantum Wells • <i>Richard Harley</i>	
SYSC 1.3	10:30-11:00	BAR SCHÖ
	Quantum dot spins in optical microcavities • <i>Rudolf Bratschitsch</i>	
SYSC 1.4	11:00-11:30	BAR SCHÖ
	Spin relaxation in quasi-one-dimensional electron systems: transition from 2D to 1D • <i>Alexander Holleitner</i>	

SYSC 1.5 11:30-12:00 BAR SCHÖ
 Triggering phase-coherent spin packets
 by pulsed electrical spin injection
 across an Fe/GaAs Schottky barrier
 •*Bernd Beschoten*

SYSC 1.6 12:00-12:30 BAR SCHÖ
 Quantum Spin Hall Effect in HgTe
 Quantum Well Structures
 •*Hartmut Buhmann*

Session

SYSC 1 09:30-12:30 BAR SCHÖ
 Spin Coherence in Solids

Symposium Self-organizing Surfaces and Interfaces (SYSO)

Invited Talks

SYSO 1.1 14:00-14:30 BAR SCHÖ
 Pattern formation in epitaxial growth
 and ion beam erosion
 •*Thomas Michely*

SYSO 1.2 14:30-15:00 BAR SCHÖ
 Patterns and Pathways in Far-from-
 equilibrium Nanoparticle Assemblies
 •*Philip Moriarty, Andrew Stannard,
 Emmanuelle Pauliac-Vaujour, Matthew
 Blunt, Chris Martin, Ioan Vancea, Uwe
 Thiele*

SYSO 1.3 15:00-15:30 BAR SCHÖ
 Block-Copolymer Derived Inorganic
 Functional Materials
 •*Ullrich Steiner*

SYSO 2.1 15:45-16:15 BAR SCHÖ
 Crystallisation of polymers at surfaces
 and in thin films
 •*Günter Reiter*

SYSO 2.2 16:15-16:45 BAR SCHÖ
 Active Organisation of Cell Surface
 Molecules by Cortical Actin

Kripa Gowrishankar, Debanjan Goswami, Subhasri Ghosh, Abhishek Chaudhuri, Bhaswati Bhattacharya, Satyajit Mayor, •Madan Rao

SYSO 2.3 16:45-17:15 BAR SCHÖ
Phase Behaviour and Dynamics in Lipid Mixtures
•Peter Olmsted

Sessions

SYSO 1 14:00-15:30 BAR SCHÖ
Self-Organizing Surfaces and Interfaces I

SYSO 2 15:45-17:15 BAR SCHÖ
Self-Organizing Surfaces and Interfaces II

SYSO 3 17:30-19:30 P3
Self-Organizing Surfaces and Interfaces - Posters

Wed

Job Market

13:30 HSZ 201
Als Physiker (m/w) in die interne Top-Managementberatung von Siemens

15:00 HSZ 201
Basycon Unternehmensberatung GmbH: "Hypothesen, Modelle, Experimente - Was Forschung und Unternehmensberatung gemeinsam haben"

Poster Exhibition "Maps of Science" by Katy Borner et al.

09:00 - 17:00 HSZ, 3rd floor

Exhibition of scientific instruments and literature

09:00-17:00 Foyer HSZ, Marquees

Evening Talk (Entrance free)

- PV VIII 20:00-21:00 HSZ 01
Wie Kooperation unter Egoisten
entsteht
•*Martin Nowak*
-

Thursday, March 26, 2009

Plenary Talks

- PV IX 08:30-09:15 HSZ 01
Self-healing rubbers and glasses from
supramolecular assembly
•*Ludwik Leibler*
- PV X 13:00-13:45 HSZ 01
The Route toward Sub-Å and 0.1eV
Analytical Electron Microscopy
•*Harald Rose (Robert-Wichard-Pohl-
Prize 2009)*

Biological Physics Division (BP)

Invited Talks

- BP 18.1 09:30-10:00 HÜL 186
Systems biology of yeast cell signaling
and response to stress
•*Edda Klipp*
- BP 18.2 10:00-10:30 HÜL 186
Towards an understanding of
membrane and protein traffic in living
cells
•*Matthias Weiss*
- BP 20.1 14:00-14:30 HÜL 186
Artificial biochemical reaction circuits
based on DNA and RNA
•*Friedrich Simmel, Eike Friedrichs, Ralf
Jungmann*

Sessions

BP 18	09:30-13:15	HÜL 186	Regulation and Signaling
BP 19	10:45-13:15	ZEU 260	Cell Adhesion
BP 20	14:00-17:15	HÜL 186	DNA, RNA and Chromatin
BP 21	17:30-18:45	HÜL 186	Population Dynamics and Evolution
BP 22	14:30-17:00	ZEU 260	Transport Processes and Cellular Trafficking
BP 23	17:15-18:45	ZEU 260	Physics of Bacteria and Viruses
BP 24	14:30-17:30	ZEU 114	Biopolymers (joint session CPP/BP)
	19:00-20:00	HÜL 186	Annual General Meeting of the Biological Physics Division

Chemical and Polymer Physics Division (CPP)

Topical Talks

CPP 35.1	14:00-14:30	ZEU 160	Simulations of lubrication force experiments • <i>Jens Harting, Christian Kunert, Olga I. Vinogradova</i>
CPP 36.1	15:45-16:15	ZEU 160	Modifying Single Particle Diffusion by Chemical Surface Patterning <i>Martin Pampa, •Frank Cichos</i>

Sessions

CPP 29	09:30-12:30	BAR SCHÖ	Symposium Organic Photovoltaics
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CPP 30	09:30-12:30	GÖR 226	Symposium Self-Organizing Surfaces and Interfaces
CPP 31	14:00-17:00	GÖR 226	Symposium Self-Organizing Surfaces and Interfaces
CPP 32	09:30-12:00	ZEU 222	Polymer Physics III
CPP 33	14:00-16:00	ZEU 222	Organic Photovoltaics II
CPP 34	09:30-12:30	ZEU 160	Microfluidics I: Applications and Devices
CPP 35	14:00-15:30	ZEU 160	Microfluidics II: Boundary conditions
CPP 36	15:45-17:00	ZEU 160	Microfluidics III: Soft Objects in Flow
CPP 37	14:30-17:30	ZEU 114	Biopolymers (joint session CPP/BP)
CPP 38	17:00-19:30	P3	POSTERS Micro- and Nanofluidics
CPP 39	17:00-19:30	P3	POSTERS Colloids and Liquids
CPP 40	17:00-19:30	P3	POSTERS Electronic and Optical Properties

Dielectric Solids Division (DF)

Invited Talks

DF 14.1	10:00-10:35	WIL A317	Spatial nonlinear optics in photonic crystals • <i>Detlef Kip</i>
DF 16.1	14:30-15:05	WIL B321	

Simulation of Defects and Domain Structures in Ferroelectrics

•*Ralf Müller*

Sessions

- DF 14 10:00-13:00 WIL A317
Photonic Dielectrics III
- DF 15 10:40-13:00 WIL B321
Thin Films and Nanostructures II
- DF 16 14:30-16:30 WIL B321
Thin Films and Nanostructures III
- 17:00-18:00 WIL B321
Annual General Meeting of the
Crystallography Division

Thin Films Division (DS)

Invited and Topical Talks

- DS 32.1 09:30-10:15 GER 38
Optimizing Electronic Properties of
Misfit Layered Compounds
•*David Johnson, Colby Heideman, Qiyin Lin, Clay Mortensen*
- DS 33.1 10:30-11:00 GER 38
Preparation and Charakterisierung von
thermoelektrischen Nanodrähten
•*Friedemann Völklein, Reinhard Neumann, Sven Mller, Oliver Picht, Heiko Reith, Matthias Schmitt*
- DS 34.1 14:15-15:00 GER 38
Metal/Semiconductor Superlattices as
Thermoelectric Metamaterials for Solid-
State Energy Conversion
•*Timothy D Sands*
- DS 35.1 15:15-15:45 GER 38
Nanotechnological thin film concepts
for new thermoelectric materials
•*Harald Böttner*

DS 35.2 15:45-16:15 GER 38
 Nanostructured layered thermoelectric
 oxides
 •*Anke Weidenkaff, Myriam Aguirre, Petr
 Tomes, Stefan Ebbinghaus, Rosa Robert*

Sessions

DS 28 09:30-11:00 GER 37
 Nanoengineered Thin Films I

DS 29 11:15-12:45 GER 37
 Nanoengineered Thin Films II

DS 30 14:15-16:00 GER 37
 Application of Thin Films I

DS 31 16:15-17:45 GER 37
 Application of Thin Films II

DS 32 09:30-10:15 GER 38
 Invited Johnson

DS 33 10:30-12:00 GER 38
 Thermoelectric Thin Films and
 Nanostructures I

DS 34 14:15-15:00 GER 38
 Invited Sands

DS 35 15:15-17:00 GER 38
 Thermoelectric Thin Films and
 Nanostructures II

Dynamics and Statistical Physics Division (DY)

Invited and Topical Talks

DY 20.1 09:30-10:00 HÜL 386
 Magnetic granular matter: from lattices
 to self-assembled swimmers
 •*Igor Aranson, Alexey Snezhko, Maxim
 Belkin, Wai Kwok*

DY 20.2 10:00-10:30 HÜL 386
 Non-equilibrium aggregates in confined
 systems of self-propelling colloidal rods
 •*Rik Wensink, Hartmut Löwen*

- DY 20.3 10:30-11:00 HÜL 386
 Beyond Faraday's crispations:
 nonlinear patterns of shaken granular
 material
 •*Christof Kruelle*
- DY 20.4 11:15-11:45 HÜL 386
 Archimedean-like Tilings on Decagonal
 Quasicrystalline Surfaces
 •*Clemens Bechinger, Jules Mikhael,
 Laurent Helden*
- DY 20.5 11:45-12:15 HÜL 386
 Injection in a confined granular
 suspension: from the Saffman-Taylor
 fingering instability up to flow inside a
 weakly jammed granular matrix.
*Christophe Chevalier, Anke Lindner,
 Oeistein Johnson, •Eric Clement*
- DY 20.6 12:15-12:45 HÜL 386
 Pattern Formation in Colloids Induced
 by Shear Flow and Electric Fields.
 •*Jan Dhont, Kyongok Kang, Pavlik
 Lettinga*
- DY 23.1 14:00-14:30 HÜL 386
 Work and Fluctuation Theorems for
 quantum systems
 •*Peter Talkner*
- Sessions**
- DY 20 09:30-12:45 HÜL 386
 Focused Session: Pattern formation in
 colloidal and granular systems
- DY 21 10:15-13:00 ZEU 255
 Quantum chaos II
- DY 22 10:15-13:00 ZEU 118
 Brownian motion and transport II
- DY 23 14:00-16:00 HÜL 386
 Statistical physics far from thermal
 equilibrium

DY 24	14:45-16:45	ZEU 255
	Pattern formation in colloidal and granular systems I	
DY 25	14:45-16:30	ZEU 118
	Fluid dynamics II	
DY 26	16:00-18:00	P1A
	Poster II	
DY 27	16:00-18:00	P1B
	Poster II	
	18:30-19:30	HÜL 386
	Annual General Meeting of the Dynamics and Statistical Physics Division	

Semiconductor Physics Division (HL)

Invited and Topical Talks

Thu	HL 38.1	09:30-10:00	HSZ 01
	Quantum control of spins and photons in diamond		
	• <i>Mikhail Lukin</i>		
	HL 38.2	10:00-10:30	HSZ 01
	Quantum Information processing in diamond		
	• <i>Fedor Jelezko, Jörg Wrachtrup</i>		
	HL 38.3	10:45-11:15	HSZ 01
	Coherence of a single spin in a tunable environment		
	• <i>Ronald Hanson</i>		
	HL 38.4	11:15-11:45	HSZ 01
	Spectroscopy and Coherent Control of Single Spins		
	• <i>Gregory Fuchs</i>		
	HL 45.1	11:45-12:30	HSZ 01
	Strain Induced Growth Instability and Island Nucleation on Patterned Substrate		
	• <i>Feng Liu</i>		

HL 47.1	14:00-14:45	HSZ 01	Homoepitaxy and optical properties of ZnO epilayers grown on Zn- and O-polar substrates <i>Bruno Meyer, Stefan Lautenschlaeger, Markus Wagner, •Axel Hoffmann</i>
			Sessions
HL 38	09:30-11:45	HSZ 01	Focused Session: Different realizations of quantum registers
HL 39	09:30-13:00	BEY 81	Quantum dots: Optical and transport properties
HL 40	09:30-12:45	BEY 118	ZnO: preparation and characterization III
HL 41	09:30-13:00	BEY 154	GaN: preparation and characterization II
HL 42	09:30-10:45	POT 51	Interfaces/surfaces
HL 43	09:30-12:30	POT 151	Photonic crystals I
HL 44	10:45-13:00	POT 51	Organic semiconductors I
HL 45	11:45-12:30	HSZ 01	Invited Talk Liu
HL 46	12:30-13:00	POT 151	Hybrid systems
HL 47	14:00-14:45	HSZ 01	Invited Talk Meyer
HL 48	15:00-17:30	P2	Poster 2
	18:00-20:00	HSZ 101	Annual General Meeting of the Semiconductor Physics

Magnetism Division (MA)

Invited Talks

- MA 29.1 09:30-10:00 HSZ 04
Quantum information processing with
electron spin resonance
•*Arzhang Ardavan*
- MA 34.1 14:00-14:30 HSZ 04
The biophysics of geomagnetic-field
reception in animals
•*Michael Winklhofer*
- MA 34.2 14:30-15:00 HSZ 04
Micromagnets for multispectral
magnetic resonance imaging
•*Gary Zabow, Stephen Dodd, John
Moreland, Alan Koretsky*

Sessions

- MA 29 09:30-10:00 HSZ 04
Invited Talk Ardavan
- MA 30 10:15-13:00 HSZ 04
Spin-Dynamics / Spin-Torque III
- MA 31 10:15-13:00 HSZ 401
Magnetic Particles and Clusters I
- MA 32 10:15-12:30 HSZ 403
Magnetic Thin Films III
- MA 33 10:15-12:30 HSZ 103
Bio- Molecular Magnetism
- MA 34 14:00-15:00 HSZ 04
Invited Talks Winklhofer / Zabow
- MA 35 15:15-19:30 HSZ 04
Spin-Dynamics / Spin-Torque IV
- MA 36 15:15-18:15 HSZ 401
Magnetic Particles and Clusters II
- MA 37 15:15-19:45 HSZ 403
Spin Dependent Transport Phenomena

MA 38	15:15-19:30 Multiferroics	HSZ 103
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Metal and Material Physics Division (MM)

Invited and Topical Talks

MM 36.1	09:30-10:00 Onset of plasticity as observed by force microscopy • <i>Roland Bennewitz</i>	IFW A
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MM 37.1	10:15-10:45 Experimental and computational analysis of the solidification path in TiAl-based alloys • <i>Ulrike Hecht, Julien Zollinger, Anne Drevermann, Victor Witusiewicz</i>	IFW A
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Sessions

MM 36	09:30-10:00 HV Bennewitz	IFW A
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MM 37	10:15-12:00 Topical Session High Temperature Materials IV	IFW A
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MM 38	10:15-11:45 Nanostructured Materials II	IFW B
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MM 39	12:00-13:00 Phase Transitions II	IFW B
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MM 40	10:15-11:30 Quasicrystals I	IFW D
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MM 41	11:45-13:00 Interfaces II	IFW D
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MM 42	14:00-15:45 Nanostructured Materials III	IFW A
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MM 43	16:00-17:45 Liquid and Amorphous Metals II	IFW A
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MM 44	14:00-15:00 Quasicrystals II	IFW B
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MM 45	15:15-16:30	IFW B
	Phase Transitions III	
MM 46	16:45-18:00	IFW B
	Electronic Properties II	

Surface Science Division (O)

Invited and Topical Talks

O 43.1	09:30-10:15	HSZ 02
	Measuring spin polarization vectors with ARPES	
	• <i>Jürg Osterwalder, Hugo Dil, Fabian Meier, Jorge Lobo-Checa, Luc Patthey, Vladimir N. Petrov</i>	
O 48.1	10:30-11:00	HSZ 02
	The Rashba and quantum size effects in ultrathin Bi films	
	• <i>Toru Hirahara</i>	
O 48.2	11:00-11:30	HSZ 02
	Giant Spin-Splitting on Metallic and Semiconducting Surfaces	
	• <i>Christian R. Ast</i>	
O 48.3	11:30-12:00	HSZ 02
	Exploring the Rashba spin-orbit splitting by <i>ab initio</i> theory	
	• <i>Gustav Bihlmayer</i>	
O 50.1	14:00-14:45	HSZ 02
	Si-based spintronics from first principles	
	• <i>Mahbube Hortamani</i>	
O 57.1	15:00-15:30	HSZ 02
	Rashba-type spin-orbit effects by spin-resolved photoemission	
	• <i>Oliver Rader</i>	
O 57.2	15:30-16:00	HSZ 02
	Quantum spin Hall phases and topological surface states	
	• <i>Shuichi Murakami</i>	

- O 57.3 16:00-16:30 HSZ 02
 Observation of a new topological phase
 of quantum matter : Quantum Hall-like
 effect without magnetic field.
 •*Zahid Hasan*
- Sessions**
- O 43 09:30-10:15 HSZ 02
 Invited Talk (Jürg Osterwalder)
- O 44 10:30-13:00 SCH A118
 Metal substrates: Adsorption of organic
 / bio molecules VI
- O 45 10:30-13:00 SCH A215
 Heterogeneous catalysis
- O 46 10:30-13:00 SCH A315
 Time-resolved spectroscopies I
- O 47 10:30-12:30 SCH A316
 Methods: Scanning probe techniques II
- O 48 10:30-13:00 HSZ 02
 Focused Session: Spin-Orbit Interaction
 at Surfaces: From the Rashba Effect to
 Topological States of Matter I
- O 49 10:30-13:30 SCH 251
 Ab-initio approaches to excitations in
 condensed matter II
- O 50 14:00-14:45 HSZ 02
 Invited Talk (Mahbube Hortamani)
- O 51 16:15-19:15 SCH A01
 Surface chemical reactions I
- O 52 15:00-19:15 SCH A118
 Metal substrates: Adsorption of organic
 / bio molecules VII
- O 53 15:00-18:30 SCH A215
 Nanostructures at surfaces: Dots,
 particles, clusters III

- O 54 15:00-18:30 SCH A216
Nano-optics of metallic and
semiconducting nanostructures
(experiments II)
- O 55 15:00-16:15 SCH A315
Time-resolved spectroscopies II
- O 56 15:00-19:15 SCH A316
Metal substrates: Epitaxy, growth and
adsorbates
- O 57 15:00-19:00 HSZ 02
Focused Session: Spin-Orbit Interaction
at Surfaces: From the Rashba Effect to
Topological States of Matter II
- O 58 15:00-18:30 SCH 251
SYAI: Ab-initio approaches to
excitations in condensed matter
- O 59 19:30-20:00 HSZ 02
General Meeting of the Surface Science
Division
- O 60 20:00-21:00 HSZ 02
Post Deadline Session followed by
Surface Science “get-together”

Low Temperature Physics Division (TT)

Invited and Topical Talks

- TT 36.1 09:30-10:00 HSZ 03
Superconductivity and Magnetism in
LaO_{1-x}F_xFeAs
•*Bernd Buechner, Hans-Joachim Grafe,
Christian Hess, Ruediger Klingeler,
Guenter Behr, Agnieszka Kondrat,
Norman Leps, Guillaume Lang, Hans-
Henning Klauss, Hubertus Luetkens*
- TT 36.2 10:00-10:30 HSZ 03
Magnetism, superconductivity,
and pairing symmetry in Fe-based
superconductors
•*Andrey Chubukov*

- TT 36.3 10:30-11:00 HSZ 03
 Structural and magnetic transitions of underdoped $(\text{Ba}_{1-x}\text{K}_x)\text{Fe}_2\text{As}_2$
 •Dirk Johrendt, Marianne Rotter, Marcus Tegel, Inga Schellenberg, Falko M. Schappacher, Rainer Poettgen
- TT 36.4 11:15-11:45 HSZ 03
 Relation of structure, magnetism, doping and pressure in AFe_2As_2
 •Helge Rosner, Deepa Kasinathan, Alim Ormeci, Katrin Koch, Miriam Schmitt, Walter Schnelle, Corneliu Miclea, Michael Nicklas, Manoj Kumar, Christoph Geibel, Ulrich Schwarz, Andreas Leithe-Jasper
- TT 36.6 12:00-12:30 HSZ 03
 Quasiparticle renormalization effects in the normal-state optical properties of iron pnictides
 •Alexander Boris, N.N. Kovaleva, P. Popovich, Y. Matiks, C.T. Lin, R.K. Kremer, L. Boeri, O.V. Dolgov, I.I. Mazin, B. Keimer
- TT 36.7 12:30-13:00 HSZ 03
 C-axis transport of pnictide single crystals
 •Paul Müller, Yuri Koval, Günter Behr, Bernd Büchner
- TT 37.8 11:30-12:00 HSZ 105
 Quantum dissipative spin ratchets
 •Milena Grifoni
- TT 39.1 09:30-10:00 HSZ 304
 Electron spin resonance in Kondo systems
 •Peter Wölfle

Sessions

- TT 36 09:30-13:00 HSZ 03
 Focussed Session: Superconductivity and Magnetism in Ferropnictides and Related Materials

TT 37	09:30-13:00	HSZ 105	Transport: Nanoelectronics II - Spintronics and Magnetotransport
TT 38	09:30-13:00	HSZ 301	Correlated Electrons: Low-dimensional Systems - Models 1
TT 39	09:30-13:00	HSZ 304	Correlated Electrons: Heavy Fermions 1
TT 40	14:00-19:00	HSZ 03	Superconductivity: Ferropnictides 1
TT 41	14:00-19:00	HSZ 105	Matter at Low Temperature: Quantum Liquids, Bose-Einstein-Condensates, Ultra-cold Atoms
TT 42	14:00-15:30	HSZ 301	Correlated Electrons: Low-dimensional Systems - Models 2
TT 43	15:45-18:45	HSZ 301	Correlated Electrons: Heavy Fermions 2
TT 44	14:00-19:15	HSZ 304	Transport: Quantum Coherence and Quantum Information

Working Group on Physics of Socio-economic Systems (AGSOE)

Invited Talk

AGSOE 16.1	09:30-10:10	BAR 205	Group Path Formation in Physical and Abstract Spaces • <i>Robert Goldstone</i>
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Sessions

AGSOE 16	09:30-10:15	BAR 205	Networks: From Topology to Dynamics I
AGSOE 17	10:15-12:45	BAR 205	Networks: From Topology to Dynamics II

AGSOE 18	14:00-16:00	BAR 205
	Networks: From Topology to Dynamics III	
AGSOE 19	16:00-18:01	BAR 205
	Networks: From Topology to Dynamics IV	

Symposium Ab-Initio Approaches to Excitations in Condensed Matter (SYAI)

Invited Talks

SYAI 1.1	15:00-15:30	SCH 251
	Insights and Progress in Density Functional Theory <i>Paula Paula Mori-Sanchez, Aron Cohen, •Weitao Yang</i>	
SYAI 1.2	15:30-16:00	SCH 251
	Quasiparticle energy calculations in a new light: from defects in semiconductors to the f -electron challenge <i>•Patrick Rinke</i>	
SYAI 1.3	16:00-16:30	SCH 251
	LDA+DMFT approach to excitations spectrum in Half-Metallic Ferromagnets <i>•Alexander Lichtenstein</i>	
SYAI 1.4	17:00-17:30	SCH 251
	Insight and prediction of material properties from ab initio calculations of electronic excitations <i>•Lucia Reining, Matteo Gatti, Ralf Hambach, Christine Giorgetti</i>	
SYAI 1.5	17:30-18:00	SCH 251
	Local excitations in strongly interacting charge-transfer insulators: Frenkel excitons within TD-LDA+ U and strong coupling theory <i>•Wei Ku</i>	
SYAI 1.6	18:00-18:30	SCH 251
	Electron tunneling and transport at molecular junctions <i>•Roberto Car</i>	

Session

SYAI 1 15:00-18:30 SCH 251
SYAI: Ab-initio approaches to
excitations in condensed matter

Symposium Chemical Reactions on Nanomaterials: Progress from in-situ Experimental Studies and Theoretical Investigations (SYCR)

Invited Talks

SYCR 1.1 14:00-14:30 BAR SCHÖ
Reactivity trends in CO oxidation from
ultrahigh vacuum to elevated pressures
•*Wayne Goodman*

SYCR 1.2 14:30-15:00 BAR SCHÖ
Ruthenium oxide as oxidation catalyst
•*Robert Schlögl, Dirk Rosenthal, Frank
Girsdies, Raoul Blume, Olaf Timpe*

SYCR 1.3 15:00-15:30 BAR SCHÖ
Low dimensional surface oxides in the
oxidation of Rh particles
•*Florian Mittendorfer*

SYCR 1.4 16:00-16:30 BAR SCHÖ
In-situ microscopy of chemical
reactions on transition metal surfaces
•*Peter Sutter*

SYCR 1.5 16:30-17:00 BAR SCHÖ
Live STM and X-ray observations of
catalytic processes
•*Joost W.M. Frenken*

SYCR 1.6 17:00-17:30 BAR SCHÖ
Computational materials design: Alloys
for selective hydrogenation catalysis
•*Thomas Bligaard*

Session

SYCR 1 14:00-17:30 BAR SCHÖ
Chemical Reactions on Nanomaterials

Symposium Organic Photovoltaics: From Single Molecules to Devices (SYOP)

Invited Talks

- SYOP 2.1 09:30-10:00 BAR SCHÖ
Material Design for Organic and Hybrid Solar Cells - structural to functional control on all length scales -
•*Mukundan Thelakkat, Michael Sommer, Ruth Lohwasser, Sebastien Maria*
- SYOP 2.2 10:00-10:30 BAR SCHÖ
Triplet exciton formation in organic photovoltaics
Xudong Yang, Sebastian Westenhoff, Ian Howard, Thomas Ford, Richard Friend, Justin Hodgkiss, •Neil Greenham
- SYOP 2.3 10:30-11:00 BAR SCHÖ
Charge Carrier Dissociation and Recombination in Polymer Solar Cells
•*Vladimir Dyakonov, Carsten Deibel*
- SYOP 2.4 11:00-11:30 BAR SCHÖ
Modeling exciton diffusion and dissociation at organic-organic interfaces
•*David Beljonne*
- SYOP 2.5 11:30-12:00 BAR SCHÖ
Correlation of Interfacial Composition and Bulk Morphology to Device Performance in Organic Bulk Heterojunction Solar Cells
David Germack, •Joseph Kline, Daniel Fischer, Lee Richter, Calvin Chan, David Gundlach, Michael Toney, Dean DeLongchamp
- SYOP 2.6 12:00-12:30 BAR SCHÖ
Developments on the acceptor side in plastic PV
•*Jan C. Hummelen*

Sessions

- SYOP 2 09:30-12:30 BAR SCHÖ
Organic Photovoltaics: from Single
Molecules to Devices
- SYOP 3 14:00-16:00 ZEU 222
Organic Photovoltaics II
- SYOP 4 16:30-19:00 P1A
Organic Photovoltaics: from Single
Molecules to Devices

Symposium Self-organizing Surfaces and Interfaces (SYSO)

Sessions

- SYSO 4 09:30-10:45 GÖR 226
Self-Organizing Surfaces and Interfaces III
- SYSO 5 11:00-12:30 GÖR 226
Self-Organizing Surfaces and Interfaces IV
- SYSO 6 14:00-15:30 GÖR 226
Self-Organizing Surfaces and Interfaces V
- SYSO 7 15:45-17:00 GÖR 226
Self-Organizing Surfaces and Interfaces VI

Poster Exhibition "Maps of Science" by Katy Borner et al.

09:00-17:00 HSZ, 3rd floor

Exhibition of scientific instruments and literature

09:00-17:00 Foyer HSZ, Marquees

Friday, March 27, 2009

Plenary Talks

- PV XI 08:30-09:15 HSZ 01
Spin Mapping and Spin Manipulation

on the Atomic Scale

•*Roland Wiesendanger*

PV XII 09:15-10:00 HSZ 01
Redox-Based Switching - the Next Step
of Moore's Law?
•*Rainer Waser*

Biological Physics Division (BP)

Invited Talk

BP 25.1 10:15-10:45 HÜL 186
Taming a Heart Gone Wild
•*Stefan Luther*

Sessions

BP 25 10:15-13:15 HÜL 186
Membranes

BP 26 11:00-13:00 ZEU 260
Photobiophysics

Chemical and Polymer Physics Division (CPP)

Sessions

CPP 41 10:30-13:15 ZEU 222
Organic Photovoltaics III

CPP 42 10:30-13:00 ZEU 160
Polymer Physics IV

CPP 43 10:30-12:15 ZEU 114
New Materials

Dynamics and Statistical Physics Division (DY)

Sessions

DY 28 10:15-13:15 HÜL 386
Pattern formation in colloidal and
granular systems II

DY 29 10:15-13:15 ZEU 255
Statistical physics of complex networks

DY 30 10:15-13:15 ZEU 118
Nonlinear stochastic systems

Semiconductor Physics Division (HL)

Invited Talk

HL 54.1 11:00-11:45 HSZ 01
Spin Noise Spectroscopy in
Semiconductor Nanostructures
•*Jens Hübner, Michael Römer, Georg
Müller, Hannes Bernien, Tammo
Böntgen, Hauke Horn, Michael
Oestreich*

Sessions

HL 49 10:15-12:45 BEY 81
Quantum dots: preparation and
characterization

HL 50 10:15-12:45 BEY 118
Ultra fast phenomena

HL 51 10:15-12:45 BEY 154
Photonic crystals II

HL 52 10:15-12:30 POT 51
Organic semiconductors II

HL 53 10:15-11:45 POT 151
Transport properties

HL 54 11:00-11:45 HSZ 01
Invited Talk Hübner

Magnetism Division (MA)

Invited Talk

MA 39.1 10:15-10:45 HSZ 04
Magnon gases and condensates
•*Burkard Hillebrands*

Sessions

MA 39 10:15-10:45 HSZ 04
Invited Talk Hillebrands

MA 40	11:00-14:00	P1A	Poster II: Bio- and Molecular Magnetism (1-9); Magnetic Coupling Phenomena/ Exchange Bias (10-15); Magnetic Particicles and Clusters (16-29); Micro and Nanostructured Magnetic Materials (30-51); Multiferroics (52-64); Spin Injection in Heterostructures (65-67); Spin-Dyn./Spin-Torque (68-93); Spindependent Transport (94-108)
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Metal and Material Physics Division (MM)

Sessions

MM 47	10:15-12:00	IFW A	Liquid and Amorphous Metals III
MM 48	10:15-12:00	IFW B	Nanostructured Materials IV
MM 49	10:15-11:45	IFW D	Hydrogen in Metals

Surface Science Division (O)

Invited Talks

O 61.1	10:15-11:00	HSZ 02	First-principles approaches towards organic film growth • <i>Claudia Ambrosch-Draxl, Peter Puschnig, Dmitrii Nabok</i>
O 68.1	13:30-14:15	HSZ 02	Surface Structure Analysis - Present Status and Future • <i>Klaus Heinz</i>
O 69.1	14:15-15:00	HSZ 02	Transient Electronic Structure and Insulator-to-Metal Transitions Probed by Time-resolved Photoemission Spectroscopy • <i>Martin Wolf</i>

Sessions

- O 61 10:15-11:00 HSZ 02
Invited Talk (Claudia Ambrosch-Draxl)
- O 62 11:15-13:00 SCH A01
Surface chemical reactions II
- O 63 11:15-13:00 SCH A118
Semiconductor substrates: Adsorption
- O 64 11:15-12:45 SCH A215
Metal substrates: Adsorption of
inorganic molecules
- O 65 11:15-13:00 SCH A315
Time-resolved spectroscopies III
- O 66 11:15-12:45 SCH A316
Organic, polymeric, biomolecular films
- also with absorbates II
- O 67 11:15-12:45 SCH 251
Ab-initio approaches to excitations in
condensed matter III
- O 68 13:30-14:15 HSZ 02
Invited Talk (Klaus Heinz)
- O 69 14:15-15:00 HSZ 02
Invited Talk (Martin Wolf)

Low Temperature Physics Division (TT)

Sessions

- TT 45 10:15-12:45 HSZ 03
Superconductivity: Ferropnictides 2
- TT 46 10:15-12:45 HSZ 301
Correlated Electrons: Quantum
Impurities, Kondo Physics

Symposium Data Analysis in Complex Systems (SYCS)

Invited Talks

- SYCS 1.1 10:15-11:00 BAR SCHÖ
104

Eat, Drink, and Be Merry: The Spread of Health Phenomena in Complex, Longitudinally Resolved Social Networks

•*Nicholas Christakis*

- SYCS 1.2 11:00-11:30 BAR SCHÖ
Transport efficiency and resilience in mycelial networks
•*Mark Fricker, Daniel Bebbler, Lynne Boddy*
- SYCS 1.3 11:30-12:00 BAR SCHÖ
From genetic variability between species to the inference of protein-protein interactions
•*Martin Weigt, Robert A. White, Hendrik Szurmant, James A. Hoch, Terrence Hwa*
- SYCS 1.4 12:00-12:30 BAR SCHÖ
Clustering and multiscale structure of graphs
•*Boaz Nadler*
- SYCS 1.5 12:30-13:00 BAR SCHÖ
Clustering, chance, and statistical mechanics
Marta Luksza, Michael Lässig,
•*Johannes Berg*
- SYCS 1.6 13:00-13:30 BAR SCHÖ
Physics of recommendation mechanisms
•*Yi-Cheng Zhang*

Session

- SYCS 1 10:15-13:30 BAR SCHÖ
Data Analysis in Complex Systems: From Data to Models

Symposium Organic Photovoltaics: From Single Molecules to Devices (SYOP)

Session

- SYOP 5 10:30-13:15 ZEU 222
Organic Photovoltaics III

Lehrertag (LT)

Sessions

- LT 1 09:00-12:30 HSZ 101
Konzepte für den Physikunterricht
- LT 2 13:30-15:45 HSZ 101
Moderne Physik für die Schule

Poster Exhibition “Maps of Science” by Katy Borner et al.

09:00-15:00 HSZ, 3rd floor

Saturday, March 28, 2009

Lehrertag (LT)

Invited Talks

- LT 3.1 09:30-16:00 WIL A317
“Hands on Particle Physics” -
Einführung in Theorie und Methoden
der Elementarteilchenphysik mit
Gelegenheit zur Auswertung echter
Ereignisse
•*Michael Kobel*

- LT 3.2 16:30-18:00 WIL A317
Videokonferenz
•*Michael Kobel*

- LT 4.1 09:30-16:00 SE 2, Raum 209
Einsatz von computergestützter
Messwerterfassung / Experimentelle
Behandlung der Nichtlinearen Physik
•*Gesche Pospiech, David Obst*

Sessions

- LT 3 09:30-18:00 WIL A317
Workshop 1: Hands on Particle Physics
- LT 4 09:30-16:00 SE 2, Raum 209
Workshop 2: Modernes
Experimentieren in der Schule
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