Synopsis of Daily Program

Sunday, March 21, 2010

TUT

Invited Talks

16:00	H2	TUT 1.1	CdTe thin-film solar cells •Heinrich Metzner
16:30	H2	TUT 1.2	CIGS thin-film solar cells •Stefan Paetel
17:00	H2	TUT 1.3	Dye-sensitized solar cells •Sven Rühle
17:30	H2	TUT 1.4	Organic solar cells based on small molecules •Moritz Riede
18:00	H2	TUT 1.5	Polymer Solar Cells •Harald Hoppe
16:00	H3	TUT 2.1	Spins as Qubits •Dieter Suter
17:00	H3	TUT 2.2	Kernspin-Gitter-Relaxation: Grundlagen, Beispiele, Instrumentierung •Franz Fujara
17:45	H3	TUT 2.3	NMR at High Pressures and High Fields •Hans Robert Kalbitzer
16:00	H4	TUT 3.1	Influence of ferroelectric phase transitions on the melt growth of bulk oxide crystals •Manfred Mühlberg, Manfred Burianek
16:45	H4	TUT 3.2	Electromechanical properties of crystals •Eiken Haussühl
17:30	H4	TUT 3.3	Epitaxial ferroelectric oxide thin films, nanostructures, and superlattices •Dietrich Hesse, Ionela Vrejoiu, Marin Alexe
16:00	H10	TUR 4.1	Time Series Analysis in Sociophysics and Econophysics •Johannes J. Schneider, •Tobias Preis

Sessions

16:00	H2	TUT 1	Tutorial: Modern Photovoltaics - Techniques beyond Silicon
16:00	H3	TUT 2	Tutorial: Physics of NMR - Physics with NMR
16:00	H4	TUT 3	Tutorial: Functional (oxide) single crystals and epitaxial films - from growth to function
16:00	H10	TUT 4	Tutorial: Time Series Analysis in Sociophysics and Econophysics

19:00	Foyer	Welcome Evening (Entrance for all **registered** Participants free)

Monday, March 22, 2010

Plenary Talks

08:30	H1	PV I	Response of live cells to mechanical stress •Samuel Safran
09:15	H1	PV II	Mesoscopic Magnetic Measurements •Kathryn A Moler
13:00	H1	PV III	Quantum degenerate Bose gases: Towards new frontiers with exciton-polaritons Regis Andre, Jacek Kasprzak, Maxime Richard, •Le Si Dang (Laureate of the Gentner-Kastler-Prize 2010)
18:00	H1	PV IV	Organic Semiconductors: From Lab Curiosities to Products •Karl Leo

BP

Invited Talks

10:15	H43	BP 2.1	Probing Cellular Events with Single Quantum Dot Imaging •Maxime Dahan
14:00	H43	BP 3.1	Exciting positional control with DNA Origami: Onwards nanoscale gadgets for Science and Technology. •Hendrik Dietz
14:00	H45	BP 4.1	Nonlinear dynamics and control of migraine waves •Markus Dahlem

Sessions

10:15	H45	BP 1	Statistical Physics of Biological Systems I (joint BP, DY)
10:15	H43	BP 2	New Technologies
14:00	H43	BP 3	DNA, RNA and Associated Enzymes
14:00	H45	BP 4	Statistical Physics of Biological Systems II (joint BP, DY)
17:15	Poster B1	BP 5	Posters: Biopolymers and Biomaterials
17:15	Poster B1	BP 6	Posters: DNA and DNA Enzymes
17:15	Poster B1	BP 7	Posters: Biological Machines, Motor Proteins

CPP

Invited Talks

10:15	H37	CPP 3.1	Interactive hydrogels •Walter Richtering
12:15	H37	CPP 3.8	Dynamics of thermosensitive microgel particles •Matthias Ballauff
14:00	H37	CPP 4.1	Current mechanistic and experimental views on the heat-induced phase transition of aqueous poly(N-isopropylacrylamide) solutions. •Francoise Winnik
15:45	H37	CPP 4.7	Swelling, structure and hybrid microgel particles •Antonio Fernandez-Barbero
11:30	H39	CPP 6.1	Triplet exciton diffusion in organic semiconductors •Anna Köhler
11:00	H48	CPP 8.1	Mesoscopic structure formation of polymers in cylindrical nanopores •Martin Steinhart

Sessions

10:15	H37	CPP 3	Focus: Structure and Dynamics of Responsive Hydrogels I
14:00	H37	CPP 4	Focus: Structure and Dynamics of Responsive Hydrogels II
10:15	H39	CPP 5	New Instruments and Methods

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CPP

11:30	H39	CPP 6	Electronic and Optical Properties of Organic Systems I
14:00	H39	CPP 7	Electronic and Optical Properties of Organic Systems II
11:00	H48	CPP 8	Crystallization and Self Assembly I
14:00	H48	CPP 9	Crystallization and Self Assembly II
16:30	Poster C	CPP 10	Poster: Structure and Dynamics of Responsive Hydrogels
16:30	Poster C	CPP 11	Poster: New Instruments and Methods
16:30	Poster C	CPP 12	Poster: Electronic and Optical Properties of Organic Systems
16:30	Poster C	CPP 13	Poster: Crystallization and Self Assembly
16:30	Poster C	CPP 14	Poster: Interfaces and Thin Films
16:30	Poster C	CPP 15	Poster: Nuclear Magnetic Resonance - Frontiers and Applications

DF

Sessions

11:00	H11	DF 2	Optical and nonlinear optical properties, photonic I
15:00	Poster D1	DF 3	Poster I: Nano- and microstructured dielectrics, surfaces and interfaces, dielectric composites
10:15	H3	DF 4	Multiferroics I (Joint Session of MA, DF, KR, DS)
14:00	H3	DF 5	Multiferroics II (Joint Session of MA, DF, KR, DS)

DS

Invited Talks

10:15	H2	DS 1.1	Tunable Hollow Waveguides and Their Device Applications •Fumio Koyama
10:45	H2	DS 1.2	Self-organized quantum dots as single and entangled photon emitters •Erik Stock, Waldemar Unrau, Anatol Lochmann, Jan Amaru Töfflinger, Andrei Schliwa, Irina Ostapenko, Murat Öztürk, Sven Rodt, Till Warming, Askhat K. Bakarov, Aleksandr I. Toropov, Ilia A. Derebezov, Vladimir Haisler, Dieter Bimberg
11:15	H2	DS 1.3	Nanostructures for Novel Quantum Cascade Structures •K. Unterrainer, W. Parz, T. Moldaschl, A. Benz, G. Fasching, A.M. Andrews, G. Strasser
11:45	H2	DS 1.4	Quantum dot single-photon sources •Peter Michler
12:15	H2	DS 1.5	The Two Conflicting Narratives of Metal-Optics •Eli Yablonovitch
12:45	H2	DS 1.6	Fundamental formulation of nanoplasmonic lasers •Shun Chuang
14:00	H2	DS 2.1	High performance lasers realised by advanced nanofabrication technologies •Johann Peter Reithmaier
14:30	H2	DS 2.2	High-brightness edge-emitting semiconductor lasers based on concepts of photonic band crystal and titled wave lasers •Vladimir Kalosha, Thorsten Kettler, Kristian Posilovic, Daniel Seidlitz, Vitaly Shchukin, Nikolay Ledentsov, Dieter Bimberg
15:00	H2	DS 2.3	Semiconductor optical amplifiers (SOA) for linear and nonlinear applications •Wolfgang Freude, René Bonk, Thomas Vallaitis, Andrej Marculescu, Amita Kapoor, Christian Meuer, Dieter Bimberg, Romain Brenot, François Lelarge, Guang-hua Duan, Juerg Leuthold
15:30	H2	DS 2.4	Controlling light on the Nanoscale •Nikolay Zheludev

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DS

16:15	H2	DS 2.5	New developments of high power LEDs and challenges in lighting applications •Christian Fricke
16:45	H2	DS 2.6	High speed VCSELs for short reach DATACOM applications •Alex Mutig, James Lott, Sergey Blokhin, Gerrit Fiol, Alexey Nadtochiy, Vitaly Shchukin, Nikolai Ledentsov, Dieter Bimberg
17:15	H2	DS 2.7	Long-Wavelength Vertical-Cavity Surface-Emitting Lasers with a High-Contrast Grating •Werner Hofmann

Sessions

10:15	H2	DS 1	Nanophotonics - Devices I (Focused Session together with HL)
14:00	H2	DS 2	Nanophotonics - Devices II (Focused Session together with HL)
10:15	H8	DS 3	Organic Electronics and Photovoltaics I (Joint Session DS/CPP/HL/O)
14:00	H8	DS 4	Organic Electronics and Photovoltaics II (Joint Session DS/CPP/HL/O)
15:45	H8	DS 5	Nanoengineered Thin Films
16:00	H15	DS 6	[HL] Organic Semiconductors: Solar Cells (Joint Session DS/CPP/HL/O)
10:15	H3	DS 7	[MA] Multiferroics I (Joint Session of MA/DF/KR/DS)
14:00	H3	DS 8	[MA] Multiferroics II (Joint Session of MA/DF/KR/DS)
15:00	Poster D1	DS 9	Poster: Synthesis of Nanostructured Films by Self-organization, Thermoelectric Thin Films and Nanostructures, High-k and Low-k Dielectrics, Layer Deposition Processes, Layer Growth, Layer Properties, Application of Thin Films, Surface Modification, Hard and Superhard Coatings, Metal Layers
18:00	H8		Annual General Meeting of the Thin Films Division

DY

Invited Talk

10:15	H45	DY 2.1	Noise during rest enables the exploration of the brain's dynamic repertoire •Viktor Jirsa

Sessions

10:15	H47	DY 1	Statistical Physics (general) I
10:15	H45	DY 2	Statistical Physics of Biological Systems I (joint session of BP + DY)
14:00	H42	DY 3	Complex energy landscapes (addendum to SYEL)
14:00	H47	DY 4	Statistical Physics (general) II
14:00	H45	DY 5	Statistical Physics of Biological Systems II (joint session of BP + DY)
16:00	Poster B2	DY 6	Poster Session I

HL

Sessions

10:15	H13	HL 2	Devices I
10:15	H14	HL 3	Preparation and Characterization
10:15	H15	HL 4	Photovoltaics I: mainly CIGS
10:15	H17	HL 5	Ultra-fast Phenomena
10:15	H2	HL 6	Nanophotonics - Devices I (Focused Session together with DS)
10:15	H18	HL 7	Graphene 1 (Joint Session with TT)
10:15	H8	HL 8	Organic Electronics and Photovoltaics I (Joint Session with DS/CPP/O)
11:30	H13	HL 9	SiC
14:00	H13	HL 10	Devices II

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HL

14:00	H14	HL 11	Transport
14:00	H15	HL 12	Group-III-Nitrides: Optical Properties I
14:00	H17	HL 13	Quantum Dots and Wires: Preparation and Characterization I
14:00	H2	HL 14	Nanophotonics - Devices II (Focused Session with DS)
14:00	H8	HL 15	Organic Electronics and Photovoltaics II (Joint Session with DS/CPP/O)
16:00	H13	HL 16	Diamond
16:00	H15	HL 17	Organic Semiconductors: Solar Cells I (Joint Session with DS/CPP/O)

KR

Sessions

10:15	H3	KR 8	Multiferroics I (Joint Session of MA, DF, KR, DS)
14:00	H3	KR 9	Multiferroics II (Joint Session of MA, DF, KR, DS)

MA

Invited Talks

10:15	H10	MA 1.1	The magnetic compass of migratory birds: from behaviour to molecules and cognition •Henrik Mouritsen
10:15	H3	MA 3.1	Antiferromagnetic interlayer coupling in $La_{0.7}Sr_{0.3}MnO_3$ / $SrRuO_3$ superlattices •Ionela Vrejoiu
14:00	H10	MA 6.1	Heusler alloy films for spintronics •Terunobu Miyazaki, Daisuke Watanabe, Shigemi Mizukami, Feng Wu, Takahide Kubota, Sumito Tsunegi, Hiroshi Nagahama, Mikihiko Oogane, Yasuo Ando
14:30	H10	MA 6.2	Heusler alloy based magnetic read heads •Stefan Maat

Sessions

10:15	H10	MA 1	Bio- and Molecular Magnetism
10:45	H10	MA 2	Bio- and Molecular Magnetism
10:15	H3	MA 3	Multiferroics I (with DF, KR, DS)
11:00	H22	MA 4	Magnetic Coupling Phenomena/ Exchange Bias
11:00	H23	MA 5	Micro- and Nanostructured Magnetic Materials I
14:00	H10	MA 6	Magnetic Thin Films I (Heusler Alloys)
14:00	H3	MA 7	Multiferroics II (with DF, KR, DS)
15:15	H22	MA 8	Magnetic Shape Memory Alloys
15:15	H23	MA 9	Magnetic Particles, Clusters

MM

Invited Talks

10:15	H16	MM 1.1	Colloidal Liquids and Glasses under Shear •Stefan Egelhaaf
10:45	H16	MM 1.2	Relaxation and flow in glassy colloids •Hans M. Wyss, Johan Mattsson, Alberto Fernandez-Nieves, Kunimasa Miyazaki, Zhibing Hu, David R. Reichman, David A. Weitz
12:00	H16	MM 2.1	Nanomechanics of glasses and supercooled melts •S. G. Mayr
10:15	H4	MM 3.1	Materials design for new cold formable steels •Wolfgang Bleck

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MM

10:45	H4	MM 3.2	The long way from "atom to auto": Materials Simulation today •Ingo Steinbach
14:00	H16	MM 9.1	Dynamic arrest in multicomponent glass forming alloys •Franz Faupel, Alexander Bartsch, Klaus Rätzke, Andreas Meyer
14:45	H16	MM 10.1	Transport Processes in Dense Melts near and far from Equilibrium •Thomas Voigtmann
16:00	H16	MM 11.1	Slow transport in densely packed random environments •Thomas Franosch
16:30	H16	MM 11.2	A structural origin of cooperativity in supercooled liquids. •Emanuela Del Gado

Sessions

10:15	H16	MM 1	Topical Session Glass Dynamics I
12:00	H16	MM 2	Topical Session Glass Dynamics II
10:15	H4	MM 3	Topical Session Designing Innovative Structural Materials and Steels I
11:30	H4	MM 4	Topical Session Designing Innovative Structural Materials and Steels II
10:15	H6	MM 5	Diffusion and Point Defects I
11:30	H6	MM 6	Diffusion and Point Defects II
10:15	H5	MM 7	Intermetallic Phases I
11:30	H5	MM 8	Intermetallic Phases II
14:00	H16	MM 9	HV Faupel
14:45	H16	MM 10	Topical Session Glass Dynamics III
16:00	H16	MM 11	Topical Session Glass Dynamics IV
14:45	H4	MM 12	Topical Session Designing Innovative Structural Materials and Steels III
16:00	H4	MM 13	Topical Session Designing Innovative Structural Materials and Steels IV
14:45	H6	MM 14	Diffusion and Point Defects III
14:45	H5	MM 15	Interfaces I
16:15	H5	MM 16	Interfaces II

O

Invited Talks

10:15	H36	O 1.1	Manipulation and assembly of single functional molecules: Towards molecular nanotechnology •Leonhard Grill
14:00	H36	O 9.1	Sub-Wavelength Patterning of Ultrathin Organic Coatings via Nonlinear Laser Processing •Nils Hartmann

Sessions

10:15	H36	O 1	Invited talk (Grill, Leonhard)
11:15	H31	O 2	Metal substrates: Solid-liquid interfaces
11:15	H32	O 3	Methods: Scanning probe techniques I
11:15	H33	O 4	Heterogeneous catalysis I
11:15	H34	O 5	Electron and spin dynamics I
11:15	H36	O 6	Metal substrates: Adsorption of organic / bio molecules I
11:15	H38	O 7	Spin-Orbit Interaction at Surfaces I
10:15	H8	O 8	[DS] Organic Electronics and Photovoltaics I (Joint Session DS/CPP/HL/O)
14:00	H36	O 9	Invited talk (Hartmann, Nils)
15:00	H31	O 10	Methods: Electronic structure theory \& Methods: other (theory)
15:00	H32	O 11	Methods: Scanning probe techniques II
15:00	H33	O 12	Oxides and insulators: Adsorption
15:00	H34	O 13	Semiconductor substrates: Adsorption

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O

15:00	H36	O 14	Metal substrates: Adsorption of organic / bio molecules II
15:00	H38	O 15	Spin-Orbit Interaction at Surfaces II
15:00	H46	O 16	Organic, polymeric, biomolecular films - also with adsorbates
14:00	H8	O 17	[DS] Organic Electronics and Photovoltaics II (Joint Session DS/CPP/HL/O)
16:00	H15	O 18	[HL] Organic Semiconductors: Solar Cells (Joint Session DS/CPP/HL/O)
14:00	H1	O 19	Symposium Spin-Orbit Coupling and Spin Relaxation in Graphene and Carbon Nanotubes

SOE

Plenary Talk

17:00	H44	SOE 5.2	Unveiling the patterns of human mobility and global disease dynamics •Dirk Brockmann

Invited Talks

09:30	H44	SOE 2.1	Don't panic! – The physics of pedestrian dynamics and evacuation processes •Andreas Schadschneider
13:30	H44	SOE 4.1	Following the actors: individual and collective behavior in epistemic landscapes •Andrea Scharnhorst
14:00	H44	SOE 4.2	Tracking science in real-time from large-scale usage data. •Johan Bollen
14:45	H44	SOE 4.3	Mapping change in science •Martin Rosvall, Carl Bergstrom
15:15	H44	SOE 4.4	Statistical physics of citation behavior •Santo Fortunato
16:00	H44	SOE 5.1	Tying the double knot: Robustness of interconnected networks •Shlomo Havlin

Sessions

09:30	H44	SOE 2	Traffic Dynamics, Urban and Regional Systems I
10:15	H44	SOE 3	Traffic Dynamics, Urban and Regional Systems II
13:30	H44	SOE 4	Focus Session: Science of Science
16:00	H44	SOE 5	Award Ceremony: Young Scientist Award for Socio- and Econophysics
18:00	Poster C	SOE 6	Poster Session

ST

Sessions

10:30	H41	ST 1	Advances in Radiation Detectors 1
13:30	H41	ST 2	Advances in Radiation Detectors 2
14:30	H41	ST 3	Radiation Detectors and Imaging (Poster Session)
16:00	H41	ST 4	Radiation Imaging
17:00	H 41		Annual General Meeting of the Radiation and Medical Physics Division

TT

Invited Talks

14:00	H18	TT 5.1	Field-Induced Berezinskii-Kosterlitz-Thouless Transition in a 2d Spin-Dimer System

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TT

			•Michael Lang, Ulrich Tutsch, Bernd Wolf, Tonia Kretz, Hans-Wolfram Lerner, Matthias Wagner, Stefan Wessel, Tanusri Saha-Dasgupta, Harald Jeschke, Roser Valenti
16:00	H20	TT 7.8	Polar Kerr Effect of Unconventional Superconductors •Aharon Kapitulnik

Sessions

10:15	H18	TT 1	TR: Graphene 1
10:15	H19	TT 2	SC: Applications and Measuring Devices
10:15	H20	TT 3	TR: Fluctuations and Noise
10:15	H21	TT 4	CE: Quantum Impurities, Kondo Physics
14:00	H18	TT 5	CE: Low-dimensional Systems - Materials 1
14:00	H19	TT 6	TR: Nanoelectronics II: Spintronics and Magnetotransport
14:00	H20	TT 7	SC: Heterostructures, Andreev Scattering, Proximity Effect, Coexistence
14:00	H21	TT 8	CE: (General) Theory
14:00	Poster A	TT 9	SC: Poster Session
14:00	Poster A	TT 10	Measuring Devices, Cryotechnique: Poster Session

VA

Invited Talks

10:00	H40	VA 1.1	Ions and radio frequency technology for space propulsion - Basics, concepts and missions •Hans Leiter
10:40	H40	VA 2.1	Dünnschicht-Photovoltaik auf großen Flächen •Volker Sittinger, Wolfgang Diehl, Bernd Szyszka
14:00	H40	VA 4.1	Innovative Oberflächen durch funktionale Beschichtung •Günter Bräuer, Klaus Bewilogua, Bernd Szyszka, Michael Vergöhl

Sessions

10:00	H40	VA 1	Space propulsion by ion thrusters
10:40	H40	VA 2	Thin film solar cells
11:20	H40	VA 3	Vacuum generation and outgassing
14:00	H40	VA 4	Smart surfaces
14:40	H40	VA 5	Vacuum measurement and instrumentation
15:45	H40		Annual General Meeting of the Vacuum Science and Technology Division

SYEL

Invited Talks

10:00	H1	SYEL 1.1	Energy Landscapes of clusters, glasses, and biomolecules •David Wales
10:30	H1	SYEL 1.2	Order parameters and energy landscapes for protein folding and misfolding •Steven Plotkin
11:00	H1	SYEL 1.3	Nuclear Spins Reveal the Microscopic Nature of Tunneling Systems in Glasses •Christian Enss
11:30	H1	SYEL 1.4	Energy landscapes and phase transitions •Lapo Casetti
12:00	H1	SYEL 1.5	Phase transitions in spin glasses •Peter Young

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SYEL

12:30	H1	SYEL 1.6	Statistical physics of inverse problems •Riccardo Zecchina
			Session
10:00	H1	SYEL 1	Energy Landscapes: Statistical Physics of (Spin-)Glasses, Bio\-molecules, Clusters and Optimization Problems (SYEL)

SYGN

			Invited Talks
14:00	H1	SYGN 1.1	Models for spin-orbit coupling in graphene •Francisco Guinea
14:35	H1	SYGN 1.2	Spin-orbit coupling and spin relaxation in carbon nanotube quantum dots •Ferdinand Kuemmeth
15:10	H1	SYGN 1.3	Spin-orbit interaction in carbon nanotubes probed in pulsed magnetic fields •Sungho Jhang, Magdalena Marganska, Yurii Skourski, Dominik Preusche, Benoit Witkamp, Milena Grifoni, Herre van der Zant, Joachim Wosnitza, Christoph Strunk
16:00	H1	SYGN 1.4	Wigner molecules and spin-orbit coupling in carbon-nanotube quantum dots •Massimo Rontani
16:35	H1	SYGN 1.5	Spin relaxation and decoherence in graphene quantum dots •Guido Burkard
17:10	H1	SYGN 1.6	Spin transport in graphene field effect transistors •Bart van Wees
			Session
14:00	H1	SYGN 1	Spin-Orbit Coupling and Spin Relaxation in Graphene and Carbon Nanotubes

SYMR

			Session
16:30	Poster C	SYMR 2	Poster: Nuclear Magnetic Resonance - Frontiers and Applications

			Job Market
13:15	PHY5.0.20		Erfolgreiche Strategien für Ihr Vorstellungsgespräch MLP AG
13:45	PHY5.0.21		Scientific Modeling at BASF BASF

9:00-17:00	PHY4		“Role models”-Exhibition

Tuesday, March 23, 2010

Plenary Talks

08:30	H1	PV V	NMR and MRI: Basic Physics for the Sake of Society •Richard R. Ernst
13:00	H10	PV VI	Three-dimensional optical metamaterials •Na Liu (Laureate of the Hertha-Sponer-Prize 2010)

16:30	H1		**Ceremonial Act and Award Ceremony**

Ceremonial session invited talk
Berühmt oder Reich – was denn nun? Über Erfinder, Wissenschaftler, Innovatoren und Unternehmer
•Gunter Dueck

BP

Invited Talks

09:30	H43	BP 9.1	Mechanics of Cellular Aggregates •Françoise Brochard-Wyart, Christophe Clanet, Damien Cuvelier, Sylvie Dufour, David Gonzalez-Rodriguez, Karine Guevorkian
14:00	H45	BP 13.1	Carbon nanotubes fluids: simple or complex? •Matteo Pasquali

Sessions

09:30	H1	BP 8	SYMR: Nuclear Magnetic Resonance: From Applications in Condensed Matter Physics to New Frontiers
09:30	H43	BP 9	Physics of Cells I
09:30	H44	BP 10	Evolutionary Game Theory I (joint SOE, BP)
11:15	H44	BP 11	Evolutionary Game Theory II (joint SOE, BP)
13:45	H48	BP 12	Nuclear Magnetic Resonance: Frontiers and Applications (joint CPP, BP)
14:00	H45	BP 13	Nanoparticles and Viruses
14:00	H44	BP 14	Evolutionary Game Theory III (joint SOE, BP)
14:30	H43	BP 15	Physics of Cells II

CPP

Invited Talks

09:30	H39	CPP 17.1	Surviving Structure in Colloidal Suspensions Confined from 3D to 2D Yan Zeng, Stefan Grandner, Sabine Klapp, •Regine von Klitzing
13:45	H39	CPP 18.1	Functional thin films based on polymer- and hybrid-nanostructures for photovoltaic applications •Peter Müller-Buschbaum

Sessions

13:45	H48	CPP 16	Nuclear Magnetic Resonance: Frontiers and Applications
09:30	H39	CPP 17	Interfaces and Thin Films I
13:45	H39	CPP 18	Interfaces and Thin Films II
09:30	H37	CPP 19	Organic Electronics and Photovoltaics I
13:45	H37	CPP 20	Organic Electronics and Photovoltaics II

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DF

Invited Talks

10:00	H11	DF 6.1	Gate Oxides beyond SiO_2 and the High *K* Materials Revolution •Darrell Schlom
10:45	H11	DF 6.2	Advanced CMOS transistor technologies using HKMG and strained Silicon for high performance applications •Manfred Horstmann
11:10	H11	DF 6.3	Amorphous ternary high-k oxides on Si and higher mobility substrates •Marcelo Lopes, Eylem Durgun-Ozben, Alexander Nichau, Roman Luptak, Martin Roeckerath, Juergen Schubert, Siegfried Mantl
11:35	H11	DF 6.4	Aspect Ratio Trapping: A Heterointegration Solution for Ge and III-V CMOS •James Fiorenza
12:20	H11	DF 6.5	Wafer Bonding Techniques for Advanced CMOS •Manfred Reiche
12:45	H11	DF 6.6	Si wafer engineering: single crystalline oxides as buffers for the integration of alternative semiconductors •Alessandro Giussani, Peter Zaumseil, Olaf Seifarth, Markus Andreas Schubert, Peter Storck, Thomas Schroeder

Sessions

10:00	H11	DF 6	Focus Session: High-k and high mobility materials for CMOS
14:00	H11	DF 7	Dielectric and ferroelectric thin films
14:00	H9	DF 8	Electrical and mechanical properties

DS

Invited Talks

09:30	H8	DS 12.1	Preparation methods and thermoelectric properties of PbTe based nanocomposites containing an inclusion phase Denis Petri, Christoph Erk, •Sabine Schlecht, Ralf Haßdorf, Eckhard Müller, Gert Homm, Markus Piechotka, Florian Gather, Peter J. Klar
14:00	H8	DS 14.1	Thermal Conductivity of Thermoelectric Materials Embedded with Nanoparticles •Yee Kan Koh, David Cahill

Sessions

10:30	H2	DS 10	Plasmonics and Nanophotonics I (Joint Session DS/O/HL)
15:00	H2	DS 11	[O] Plasmonics and Nanophotonics II (Joint Session DS/O/HL)
09:30	H8	DS 12	Invited Schlecht
10:30	H8	DS 13	Thermoelectric Thin Films and Nanostructures I
14:00	H8	DS 14	Thermoelectric Thin Films and Nanostructures II
09:30	H15	DS 15	[HL] Organic Semiconductors: Transistors and OLEDs (Joint Session DS/CPP/HL/O)
09:30	H37	DS 16	[CPP] Organic Electronics and Photovoltaics I (Joint Session DS/CPP/HL/O)
13:45	H37	DS 17	[CPP] Organic Electronics and Photovoltaics II (Joint Session DS/CPP/HL/O)

DY

Invited Talks

09:30	H46	DY 7.1	Directing Brownian motion: Negative mobility and beyond •Ralf Eichhorn

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DY

12:30	H38	DY 8.11	Quantum search algorithms and quantum communication on networks •Gregor Tanner, Birgit Hein
14:00	H38	DY 11.1	AC-driven quantum systems: cold atom ratchets and beyond •Sergey Denisov

Sessions

09:30	H46	DY 7	Stochastic processes, brownian motion, and transport
10:00	H38	DY 8	Quantum Dynamics, Decoherence, and Quantum Information I
10:00	H47	DY 9	Granular Matter/ Contact Dynamics I
14:00	H46	DY 10	Nonlinear Dynamics I
14:00	H38	DY 11	Quantum Dynamics, Decoherence, and Quantum Information II
14:30	H47	DY 12	Soft Matter I

HL

Invited Talks

09:30	H13	HL 18.1	Strong light-matter interaction in quantum dot micropillar cavities •Stephan Reizenstein, Caroline Kistner, Steffen Münch, Christian Schneider, Micha Strauß, Philipp Franeck, Arash Rahimi-Iman, Tobias Heindel, Sven Höfling, Lukas Worschech, Alfred Forchel
10:00	H13	HL 18.2	Strong light-matter coupling in GaN based semiconductors •Nicolas Grandjean
11:15	H13	HL 18.5	Spectroscopy and Thermodynamics of Ultracold Excitons in a Potential Trap •Heinrich Stolz
12:30	H13	HL 18.9	Novel polariton-based devices: Room temperature polariton laser and electrically controlled polariton parametric amplifier •Gabriel Christmann, Stavros Christopoulos, Christopher Coulson, Jeremy J. Baumberg
14:00	H13	HL 25.1	Sub-cycle switching of ultrastrong light-matter interaction A. A. Anappara, A. Sell, G. Günter, G. Biasiol, L. Sorba, S. DeLiberato, C. Ciuti, A. Tredicucci, A. Leitenstorfer, •R. Huber,
14:00	H17	HL 28.1	Ga-assisted MBE grown GaAs nanowires and related quantum heterostructures •Anna Fontcuberta i Morral
14:45	H17	HL 29.1	Quantum Dot Flash Memories: The best of two worlds •Andreas Marent, Tobias Nowozin, Dieter Bimberg

Sessions

09:30	H13	HL 18	Focussed Session: Strong Light Matter Coupling I
09:30	H14	HL 19	Spin-controlled Transport I
09:30	H15	HL 20	Organic Semiconductors: Transistors and OLEDs
09:30	H17	HL 21	Quantum Dots and Wires, Optical Properties I: Nitrides
09:30	H21	HL 22	Graphene 2 (Joint Session with TT)
10:30	H2	HL 23	Plasmonics and Nanophotonics I (Joint Session with DS/O)
11:30	H17	HL 24	Quantum Dots and Wires, Optical Properties II: Single Photon Sources
14:00	H13	HL 25	Focussed Session: Strong Light Matter Coupling II
14:00	H14	HL 26	Spin-controlled Transport II
14:00	H15	HL 27	GaN Preparation and Characterization
14:00	H17	HL 28	Invited Talk: A. Fontcuberta i Morral
14:45	H17	HL 29	Invited Talk: A. Marent
15:00	H2	HL 30	Plasmonics and Nanophotonics II (Joint Session with O/DS)
18:30	Poster D1	HL 31	Poster I: Devices, Quantum Dots and Quantum Wires
18:30	Poster D1	HL 32	Poster I: Group II - Oxides

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HL

18:30	Poster D1	HL 33	Poster I: Transport, including Magnetic-Field Effects
18:30	Poster D2	HL 34	Poster I: III-V Semiconductors

KR

Invited Talk

09:30	H9	KR 2.1	Coherent X-ray Diffraction for mapping strains in ZnO Nanocrystals •Ian Robinson

Sessions

09:30	H9	KR 2	Crystallography in nanoscience
10:45	Poster A	KR 10	Poster: Multiferroics (with MA, DF, KR, DS)

MA

Invited Talks

10:45	H22	MA 12.1	Exploring the frontiers in cluster magnetism from a theorist's perspective •Gustavo Pastor
11:15	H22	MA 12.2	Magnetic chirality in the electron microscope: Progress and Applications •Peter Schattschneider
11:45	H22	MA 12.3	Stochastic resonance of a nanomagnet excited by spin transfer torque •Ilya Krivorotov
12:15	H22	MA 12.4	Exploring single nanomagnets with photoelectron microscopy •Florian Kronast

Sessions

10:45	Poster A	MA 10	Poster I
09:30	H20	MA 11	FS: Topological Defects in Electronic Systems (with TT)
10:45	H22	MA 12	FS: Single Nanomagnets
14:00	H3	MA 13	ThyssenKrupp Dissertationspreis der AG Magnetismus

MM

Invited Talks

09:30	H16	MM 17.1	Interfaces in nanostructured matter •Guido Schmitz
10:15	H16	MM 18.1	The low-frequency vibrational properties of model bulk metallic glasses within the harmonic approximation. •Peter Derlet, Robert Maass, Jörg Löffler
10:15	H4	MM 19.1	Influence of pressure on decomposition thermodynamics of structural materials •Igor A. Abrikosov, Björn Alling, Alena V. Ponomareva, Olga Yu. Vekilova, Sergei I. Simak
10:45	H4	MM 19.2	Computational Phase Studies: Deriving thermodynamic properties of metals from first principles •Tilmann Hickel
14:00	H16	MM 25.1	Models for ductile fracture and their application to forming processes •Hermann Riedel

Sessions

09:30	H16	MM 17	HV Schmitz
10:15	H16	MM 18	Topical Session Glass Dynamics V
10:15	H4	MM 19	Topical Session Designing Innovative Structural Materials and Steels V
11:30	H4	MM 20	Topical Session Designing Innovative Structural Materials and Steels VI

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MM

10:15	H6	MM 21	Mechanical Properties I
10:15	H5	MM 22	Hydrogen in Metals
11:45	H5	MM 23	Quasicrystals
13:30	H16	MM 24	BV Matwerk
14:00	H16	MM 25	HV Riedel
14:45	Poster C	MM 26	Poster Session

O

Invited Talks

09:30	H36	O 20.1	Control of Photon Emitters Coupled to Nano-Antennas Daan Brinks, Tim H. Taminiau, Alberto Gonzalez-Curto, Richard Hildner, Marta Castro-Lopez, Fernando D. Stefani, •Niek F. van Hulst,
14:00	H36	O 31.1	Rare earth silicide nanowires on silicon surfaces •Mario Dähne

Sessions

09:30	H36	O 20	Invited talk (Van Hulst, Niek)
10:30	H2	O 21	[DS] Plasmonics and Nanophotonics I (Joint Session DS/O/HL)
10:30	H32	O 22	Methods: Scanning probe techniques III
10:30	H33	O 23	Nanostructures at surfaces: Dots, particles, clusters
10:30	H34	O 24	Particles and clusters
10:30	H36	O 25	Metal substrates: Adsorption of organic / bio molecules III
10:30	H40	O 26	Oxides and insulators: Clean surfaces
10:30	H42	O 27	Metal subtrates: Adsorption of O and/or H
10:30	H48	O 28	Surface or interface magnetism
09:30	H37	O 29	[CPP] Organic Electronics and Photovoltaics I (Joint Session DS/CPP/HL/O)
09:30	H15	O 30	[HL] Organic Semiconductors: Transistors and OLEDs (Joint Session DS/CPP/HL/O)
14:00	H36	O 31	Invited talk (Dähne, Mario)
15:00	H2	O 32	Plasmonics and Nanophotonics II (Joint Session O/DS/HL)
15:00	H31	O 33	Nanostructures at surfaces: arrays
15:00	H32	O 34	Methods: Scanning probe techniques IV
15:00	H33	O 35	Heterogeneous catalysis II
15:00	H34	O 36	Methods: Atomic and electronic structure
15:00	H36	O 37	Metal substrates: Adsorption of organic / bio molecules IV
15:00	H40	O 38	Semiconductor substrates: clean surfaces
15:00	H42	O 39	Phase transitions
13:45	H37	O 40	[CPP] Organic Electronics and Photovoltaics II (Joint Session DS/CPP/HL/O)
18:30	Poster B1	O 41	Poster Session I (Semiconductor Substrates: Epitaxy and growth; Semiconductor Substrates: Adsorbtion; Semiconductor Substrates: Solid-liquid interfaces; Semiconductor Substrates: Clean surfaces; Oxides and insulators: Epitaxy and growth; Oxides and insulators: Adsorption; Oxides and insulators: Clean surfaces; Organic, polymeric and biomolecular films - also with adsorbates; Organic electronics and photovoltaics, Surface chemical reactions; Heterogeneous catalysis; Phase transitions; Particles and clusters; Surface dynamics; Surface or interface magnetism; Electron and spin dynamics; Spin-Orbit Interaction at Surfaces; Electronic structure; Nanotribology; Solid/liquid interfaces; Graphene; Others)

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SOE

Invited Talks

09:30	H44	SOE 7.1	Humans playing spatial games •Arne Traulsen
14:00	H44	SOE 10.1	Stochasticity and specificity in DNA repair •Thomas Höfer, Martijn Luijsterburg, Gesa von Bornstaedt, Roel van Driel

Sessions

09:30	H44	SOE 7	Evolutionary Game Theory I (with BP)
11:15	H44	SOE 8	Evolutionary Game Theory II (with BP)
12:30	H44	SOE 9	Social Systems, Opinion and Group Dynamics I
14:00	H44	SOE 10	Evolutionary Game Theory III (with BP)
16:00	H44		Annual General Meeting of the Physics on Socio-economic Systems Division

ST

Sessions

08:30	H1	ST 5	NMI and MRI: Basic Physics for the Sake of Society
09:30	H1	ST 6	SYMR (CPP and ST): Nuclear Magnetic Resonance: From Applications in Condensed Matter Physics to New Frontiers
13:45	H48	ST 7	Nuclear Magnetic Resonance: Frontiers and Applications (CPP and ST)

TT

Invited Talks

09:30	H20	TT 13.1	Skyrmions in Chiral Magnets •Ulrich K. Rössler, Andrei A. Leonov, Anna B. Butenko, Alexei N. Bogdanov
10:00	H20	TT 13.2	Dirac Strings and Magnetic Monopoles in the Spin Ice, $Dy_2Ti_2O_7$ •David Jonathan Pryce Morris, Alan Tennant, Santiago Grigera, Bastian Klemke, Claudio Castelnovo, Roderich Moessner, Clemens Czternasty, Michael Meissner, Kirrily Rule, Jens-Uwe Hoffmann, Klaus Kiefer, Damien Slobinsky, Robin Perry
10:30	H20	TT 13.3	Manifestations of monopole physics in spin ice materials •Claudio Castelnovo, Roderich Moessner, Shivaji Sondhi
11:00	H20	TT 13.4	Skyrmion Lattices in Pure Metals and Strongly Doped Semiconductors •Christian Pfleiderer
11:45	H20	TT 13.5	Skyrmion lattice in MnSi •Achim Rosch
12:15	H20	TT 13.6	Topological Insulators in Applied Fields: Magnetoelectric Effects and Exciton Condensation •Joel Moore
12:45	H20	TT 13.7	Probing non-Abelian statistics with quasiparticle interferometry •Kirill Shtengel
13:15	H20	TT 13.8	Spin Hall effects in HgTe Quantum Well Structures •Laurens W. Molenkamp
14:45	H18	TT 15.4	Superconductivity vs. Superinsulation in TiN Thin Films •Christoph Strunk
15:30	H20	TT 17.6	Nature of Pairing in the FeAs Superconductors •Siegfried Graser, Thomas A. Maier, Alexander F. Kemper, Peter J. Hirschfeld, Douglas J. Scalapino

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TT

Sessions

09:30	H18	TT 11	CE: Low-dimensional Systems - Materials 2
09:30	H19	TT 12	CE: Metal-Insulator Transition 1
09:30	H20	TT 13	FS: Topological Defects in Electronic Systems
09:30	H21	TT 14	TR: Graphene 2
14:00	H18	TT 15	MLT: Quantum Liquids, Bose-Einstein Condensates, Ultra-cold Atoms, ...
14:00	H19	TT 16	CE: Quantum-Critical Phenomena 1
14:00	H20	TT 17	SC: Iron-Based Superconductors - Theoretical Approaches
14:00	H21	TT 18	TR: Quantum Coherence and Quantum Information Systems 1

SYDI

Invited Talks

13:30	H10	SYDI 1.1	Modeling the coupling of mechanics and biochemistry in cell adhesion •Achim Besser
14:00	H10	SYDI 1.2	Nitrogen Containing III-V Semiconductor Surfaces and Nanostructures Studied by Scanning Tunneling Microscopy and Spectroscopy •Lena Ivanova
14:30	H10	SYDI 1.3	Charge Transport in Organic Crystals •Frank Ortmann
15:00	H10	SYDI 1.4	Quantum transport in nanostructures: from numerical algorithms to spintronics in graphene •Michael Wimmer

Session

13:30	H10	SYDI 1	SKM Dissertation Prize 2010

SYMR

Invited Talks

09:30	H1	SYMR 4.1	NMR with a Magnetic Resonance Force Microscope •Beat H. Meier, Kai Eberhardt, Joss Rosmarie, Tomka Ivan
10:00	H1	SYMR 4.2	Probing Novel Electronic States in Strongly Correlated Electron Materials Using NMR and NQR •Nicholas Curro
10:30	H1	SYMR 4.3	Interplay of Structure and Dynamics in Macromolecular and Supramolecular Systems as Revealed by NMR Spectroscopy •Hans Wolfgang Spiess
11:15	H1	SYMR 4.4	Big times for small NMR •Bernhard Blümich
11:45	H1	SYMR 4.5	Traveling-Wave MRI •Klaas Prüßmann
12:15	H1	SYMR 4.6	Life on the Edge: The Origins and Proliferation of Protein Misfolding Diseases •Chistopher M. Dobson

Sessions

08:30	H1	SYMR 3	PV V
09:30	H1	SYMR 4	SYMR Nuclear Magnetic Resonance: From Applications in Condensed Matter Physics to New Frontiers
13:45	H48	SYMR 5	Nuclear Magnetic Resonance: Frontiers and Applications

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		Job Market
13:15	PHY5.0.20	Strategische Management-Beratung der Siemens AG Siemens AG
13:45	PHY5.0.21	Forschungszentrum Jülich – Physik und mehr…" Forschungszentrum Jülich
9:00-17:00	Foyer, Level 0 and 1, Gallery, RW1, RW2	Exhibition of scientific instruments and literature
9:00-17:00	PHY4	"Role models"-Exhibition

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Plenary Talks

08:30	H1	PV VII	Catalytic model systems studied by high-resolution, video-rate Scanning Tunneling Microscopy •Flemming Besenbacher
13:00	H1	PV VIII	Epitaxial graphene: a new electronic material •Thomas Seyller (Laureate of the Walter-Schottky-Prize 2010)

BP

Invited Talk

14:00	H43	BP 21.1	Deconstructing hearing: mechanisms and molecules Björn Nadrowski, Thomas Effertz, •Martin Göpfert

Sessions

09:30	H1	BP 16	SYMM: Magnetism and Medicine
09:30	H38	BP 17	Anomalous Transport I (joint BP, DY)
11:15	H38	BP 18	Anomalous Transport II (joint BP, DY)
10:00	H43	BP 19	Membranes and Vesicles
10:15	H44	BP 20	Networks: From Topology to Dynamics I (joint DY, BP, SOE)
14:00	H43	BP 21	Neurobiophysics and Sensory Transduction
18:30	H45		Annual General Meeting of the Biological Physics Division

CPP

Invited Talks

14:00	H37	CPP 22.1	Atomic Layer Deposition (ALD) as a Versatile Tool for Nanoscience •Mato Knez, Seung-Mo Lee, Adriana Szeghalmi, Yong Qin, Eckhard Pippel, Christian Dresbach, Gerd Hause
17:00	H37	CPP 22.11	Recognition dynamics and kinetics for ubiquitin •Christian Griesinger
09:30	H48	CPP 23.1	On the dynamics of polymers in nanocomposites and under confinement •Dieter Richter
10:00	H48	CPP 23.2	From simple liquids to polymers: Dynamics revealed by field cycling ^{1}H NMR Axel Herrmann, Azza Abou Elfadl, Roman Meier, Danuta Kruk, Vladimir N. Novikov, •Ernst A. Rössler,
14:00	H48	CPP 24.1	New Approach to the Old Problem: Cooperativity in Dynamics of Glass Forming Systems •Alexei Sokolov
15:45	H48	CPP 24.6	Slow domains percolation in polymer melts and blends close to the glass transition: a unifying concept regarding bulk dynamics, dynamics in the vicinity of interfaces, and the physical properties of nanocomposites •Didier R. Long
09:30	H39	CPP 25.1	Designing small swimmers •Ramin Golestanian
10:00	H39	CPP 25.2	Magnetic actuation of paramagnetic colloids at interfaces •Thomas Fischer
11:15	H39	CPP 25.5	Active behavior of the cytoskeleton •Jean-Francois Joanny, Jacques Prost

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CPP

11:45	H39	CPP 25.6	Active cytoskeletal polymer networks: from model systems to cells •Christoph F. Schmidt

Sessions

09:30	H37	CPP 21	Organic Electronics and Photovoltaics III
14:00	H37	CPP 22	Biopolymers and Biomaterials (jointly with BP)
09:30	H48	CPP 23	Polymer Dynamics
14:00	H48	CPP 24	Glasses and Glass Transition I (jointly with DY and DF)
09:30	H39	CPP 25	Focus: Active Fluids
14:00	H39	CPP 26	Micro and Nanofluidics I
17:30	Poster C	CPP 27	Poster: Organic Electronics and Photovoltaics
17:30	Poster C	CPP 28	Poster: Biopolymers and Biomaterials
17:30	Poster C	CPP 29	Poster: Active Fluids
17:30	Poster C	CPP 30	Poster: Micro and Nanofluidics
17:30	Poster C	CPP 31	Poster: Polymer Dynamics
17:30	Poster C	CPP 32	Poster: Liquids and Ionic Liquids
17:30	Poster C	CPP 33	Poster: Charge Effects in Soft and Biological Matter
17:30	Poster C	CPP 34	Poster: Elastomers and Gels
17:30	Poster B2	CPP 35	Poster: Glasses and Glass Transition
17:30	Poster B2	CPP 36	Poster: Nanoparticles and Composite Materials
17:30	Poster B2	CPP 37	Poster: Colloids and Complex Liquids

19:15	H48		Annual General Meeting of the Chemical and Polymer Physics Division

DF

Invited Talks

10:00	H11	DF 9.1	Structural dynamics in photoexcited molecules •Majed Chergui
10:40	H11	DF 9.2	Ultrafast reversible photogeneration of nitrosyl linkage isomers in $Na_2[Fe(CN)_5NO]2H_2O$ •Matthieu Nicoul, Theo Woike, Dominik Schaniel
11:00	H11	DF 9.3	Photoinduced isomerization of molecular switches at metal surfaces •Petra Tegeder
11:20	H11	DF 9.4	Light induced conformational changes of retinal proteins •Heinz-Jürgen Steinhoff
11:40	H11	DF 9.5	Ultrafast photochromism of fulgides •Markus Braun, Simone Draxler, Thomas Brust, Stephan Malkmus
12:20	H11	DF 9.6	*Ab-initio* and semi-empirical molecular dynamics studies of photo-isomerisable molecules •Jan Boyke Schönborn, Ole Carstensen, Bernd Hartke
12:40	H11	DF 9.7	Influence of ligand substitution and dielectric environment on structural dynamics in photoswitchable molecular compounds •Volker Dieckmann, Sebastian Eicke, Kristin Springfeld, Mirco Imlau
14:00	H11	DF 10.1	Molecular self-assembly on calcite •Angelika Kühnle, Philipp Rahe, Jens Schütte, Sebastian Rode

Sessions

10:00	H11	DF 9	Focus Session: Structural dynamics in photoexcited molecules
14:00	H11	DF 10	Dielectric surfaces and interfaces
09:30	H8	DF 11	High-k and Low-k Dielectrics I (Joint Session DS/DF)
11:15	H8	DF 12	High-k and Low-k Dielectrics II (Joint Session DS/DF)
15:00	Poster A	DF 13	Poster II: Electrical, mechanical and optical properties, nonlinear dielectrics

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DF

14:00	H48	DF 14	Glasses I (Joint Session of DY, DF, CPP)
17:45	H11		Annual General Meeting of the Dielectric Solids Division

DS

Invited Talks

09:30	H2	DS 18.1	X-ray Scattering Investigations of Ge Quantum-dot Crystals Depositied on Prepatterened Si Substrates •Vaclav Holý, M. Mixa, J Stangl, T. Fromherz, R. T. Lechner, E. Wintersberger, G. Bauer, Ch. Dais, E. Müller, D. Grützmacher
10:30	H2	DS 19.1	Glancing angle deposition: Preparation, properties, and application of micro- and nanostructured thin films •Bernd Rauschenbach, Christian Patzig, Jens Bauer, Chinmay Khare
12:15	H2	DS 19.7	Synthesis of Nanostructured Films by Self-organization •Hans Hofsäss
15:00	H2	DS 21.1	Self-organization of noble-metal nanoparticles on rippled dielectric surfaces produced by low-energy ion erosion •David Babonneau, Sophie Camelio, Lionel Simonot
16:00	H2	DS 22.1	Self-organization during the growth of phase-separated nanostructured thin films •Gintautas Abrasonis
17:15	H2	DS 22.5	Self-organization and molecular diffusion processes in organic thin film growth •Christian Teichert

Sessions

09:30	H2	DS 18	Invited Holý
10:30	H2	DS 19	Synthesis of Nanostructured Films by Self-organization I (Focused Session)
14:00	H36	DS 20	Gaede-Prize Talk (Linden, Stefan)
15:00	H2	DS 21	Invited Babonneau
16:00	H2	DS 22	Synthesis of Nanostructured Films by Self-organization II (Focused Session)
09:30	H8	DS 23	High-k and Low-k Dielectrics I (Joint Session DS/DF)
11:15	H8	DS 24	High-k and Low-k Dielectrics II (Joint Session DS/DF)
16:00	H8	DS 25	Application of Thin Films
09:30	H37	DS 26	[CPP] Organic Electronics and Photovoltaics III (Joint Session DS/CPP/HL/O)
10:30	H32	DS 27	[O] Plasmonics and Nanooptics III (Joint Session DS/O/HL)
15:00	H32	DS 28	[O] Plasmonics and Nanooptics IV (Joint Session DS/O/HL)
15:00	Poster A	DS 29	Poster: Molecular Spintronics, Biomolecular and Functional Organic Layers, Organic Electronics and Photovoltaics, Plasmonics and Nanophotonics, Organic Thin Films, Nanoengineered Thin Films, Thin Film Characterisation,

DY

Invited Talks

09:30	H47	DY 13.1	Glass transition in driven granular fluids •Annette Zippelius, Till Kranz, Matthias Sperl
12:45	H38	DY 17.7	Anomalous Diffusion and Fractional Time •R. Hilfer

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DY

14:00	H38	DY 19.1	Chaotic Scattering in Microwave Billiards With and Without Time-Reversal Invariance •Barbara Dietz, Thomas Friedrich, Hanns L. Harney, Maksim Miski-Oglu, Achim Richter, Florian Schäfer, Hans A. Weidenmüller

Sessions

09:30	H47	DY 13	Granular Matter/ Contact Dynamics II
10:15	H44	DY 14	Networks: From Topology to Dynamics I (joint session of BP, DY, SOE)
10:00	H46	DY 15	Reaction Diffusion Systems
09:30	H38	DY 16	Anomalous Transport I (talks contributed by BP)
11:15	H38	DY 17	Anomalous Transport II (talks contributed by DY)
14:00	H48	DY 18	Glasses I (joint session of CPP, DF, DY)
14:00	H38	DY 19	Quantum Chaos
14:30	H47	DY 20	Phase Transitions and Critical Phenomena I
16:30	H47	DY 21	Soft Matter II

HL

Invited Talks

14:00	H13	HL 42.1	Recent advances in silicon-based photonic devices •Delphine Marris-Morini, Laurent Vivien, Gilles Rasigade, Papichaya Chaisakul, Xavier Le Roux, Eric Cassan, Jean-Marc Fedeli, Daniel Chrastina, Giovanni Isella
14:30	H13	HL 42.2	3D silicon photonic crystals •Georg von Freymann
15:00	H13	HL 42.3	Miniband-related IR luminescence of Ge/Si quantum dot superlattices •Peter Werner
15:30	H13	HL 42.4	Transient optical gain in Germanium quantum wells •Christoph Lange, Niko Köster, Martin Schäfer, Mackillo Kira, Stephan Koch, Danny Chrastina, Giovanni Isella, Hans von Känel, Hans Sigg, Sangam Chatterjee
16:15	H13	HL 42.5	SiGe based quantum cascade systems: 10 years after. •Hans Sigg
16:45	H13	HL 42.6	A Germanium Laser on Silicon •Jurgen Michel, Jifeng Liu, Lionel C. Kimerling, Xiaochen Sun, Rodolfo Camacho
17:15	H13	HL 42.7	Monolithic integration of lattice-matched Ga(NAsP)-based laser device structures on (001) Silicon •Kerstin Volz, Wolfgang Stolz
14:00	H15	HL 44.1	Surface characterisation and reactivity of clean GaN(000±1) surfaces Pierre Lorenz, Richard Gutt, Marcel Himmerlich, Juergen A. Schaefer, •Stefan Krischok

Sessions

09:30	H13	HL 35	New Materials: Optoelectronic and Photovoltaic Applications
09:30	H14	HL 36	Ge, GeSi, and Si
09:30	H15	HL 37	Quantum Dots and Wires: Optical Properties III
09:30	H17	HL 38	ZnO and Related Semiconductors
09:30	H3	HL 39	Photovoltaics II
10:30	H32	HL 40	Plasmonics and nanooptics III
11:00	H13	HL 41	Quantum Dots and Wires: Preparation and Characterization II
14:00	H13	HL 42	Focussed Session: Silicon Photonics
14:00	H14	HL 43	Electronic Structure and Atomistic Modeling
14:00	H15	HL 44	Invited talk: S. Krischok

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HL

14:30	H15	HL 45	Group-III-Nitrides: Optical Properties II
14:00	H17	HL 46	Quantum Dots and Wires: Transport
16:00	H14	HL 47	New Materials: mainly thermoelectric and nanomechanical Properties
18:00	H13		Annual General Meeting of the Semiconductor Physics Division

KR

Sessions

15:00	Poster A	KR 3	Poster: Crystallography in Nanoscience
10:15	H4	KR 5	Topical Session Photovoltaic Materials I (with MM and BV MatWerk)
11:45	H4	KR 6	Topical Session Photovoltaic Materials II (with MM and BV MatWerk)
14:45	H4	KR 7	Topical Session Photovoltaic Materials III (with MM and BV MatWerk)

MA

Invited Talks

09:30	H10	MA 14.1	Ultrafast spin-orbit excitations in ferromagnets probed by fs x-ray pulses •Hermann A. Dürr
14:00	H10	MA 17.1	Current-induced magnetization dynamics •Mathias Kläui
14:30	H10	MA 17.2	Ultrafast switching of magnetic vortex cores – The role of the internal energy •Riccardo Hertel

Sessions

09:30	H10	MA 14	Spin Dynamics / Spin Torque I
10:15	H22	MA 15	Magnetic Half-metals and Oxides I
10:15	H23	MA 16	Micro- and Nanostructured Magnetic Materials II
14:00	H10	MA 17	Spin Dynamics / Spin Torque II
15:15	H3	MA 18	Magnetic Thin Films II
15:15	H22	MA 19	Magnetic Half-metals and Oxides II
17:00	H22	MA 20	Micromagnetism / Computational Magnetics
15:15	H23	MA 21	Magnetic Materials
18:45	H10		Annual General Meeting of the Magnetism Division

MM

Invited Talks

09:30	H16	MM 27.1	Multiferroic Composites •Dwight Viehland
10:15	H4	MM 30.1	Solar cell absorbers made from rust? – Stacked-Elemental-Layer-RTP and corrosion of alloys •Rainer Hock, Roland Schurr, Astrid Hölzing
10:15	H6	MM 32.1	Fabrication of TiNi thin film stents Rodrigo Lima de Miranda, Christiane Zamponi, •Eckhard Quandt,
10:45	H6	MM 32.2	First-principles computational design of multifunctional materials •Arthur Ernst
12:00	H6	MM 33.1	Strain-dependent ferroic properties of doped $LaMO_3$ (M = Mn or Co) and $BiFeO_3$ •Kathrin Dörr, Diana Rata, Andreas Herklotz, Orkidia Bilani, Martina Dekker, Ludwig Schultz, Marianne Reibold, Michael Biegalski, Hans Christen

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MM

14:00	H16	MM 36.1	Atomistic simulations of plastic deformation - insights from a quantitative approach •Erik Bitzek
16:00	H4	MM 40.1	Modeling the Role of Co-deposited Impurities in Growth: What Causes the Distinctive Step Meandering and Pyramidal Mounds on Cu(001)* •Theodore L. Einstein, Rajesh Sathiyanarayanan, Ajmi BH. Hamouda, Alberto Pimpinelli
14:45	H6	MM 42.1	Multifunctional semiconductor nanowires for photonic applications •Carsten Ronning
15:15	H6	MM 42.2	Interfaces in multifunctional perovskite oxides •Christian Jooß, Joerg Hoffmann, Jonas Norpoth, Malte Scherff, Björn-Uwe Meyer, Gesine Saucke, Yimei Zhu

Sessions

09:30	H16	MM 27	HV Viehland
10:15	H16	MM 28	Nanostructured Materials I
12:00	H16	MM 29	Nanostructured Materials II
10:15	H4	MM 30	Topical Session Photovoltaic Materials I
11:45	H4	MM 31	Topical Session Photovoltaic Materials II
10:15	H6	MM 32	Topical Session Multifunctional Materials I
12:00	H6	MM 33	Topical Session Multifunctional Materials II
10:15	H5	MM 34	Liquid and Amorphous Metals I
11:30	H5	MM 35	Liquid and Amorphous Metals II
14:00	H16	MM 36	HV Bitzek
14:45	H16	MM 37	Mechanical Properties II
16:30	H16	MM 38	Mechanical Properties III
14:45	H4	MM 39	Topical Session Photovoltaic Materials III
16:00	H4	MM 40	Topical Session Growth Kinetics I
17:15	H4	MM 41	Topical Session Growth Kinetics II
14:45	H6	MM 42	Topical Session Multifunctional Materials III
14:45	H5	MM 43	Materials Design I
16:15	H5	MM 44	Materials Design II

18:30	H6		Annual General Meeting of the Metal and Material Physics Division

O

Plenary Talk

14:00	H36	O 51.1	Photonic Metamaterials: Novel Optics with Artificial Atoms •Stefan Linden

Invited Talk

09:30	H36	O 42.1	Electrons in quasi two dimensions: Revelations from photoemission mapping, microscopy, and filming •Kai Rossnagel

Sessions

09:30	H36	O 42	Invited talk (Rossnagel, Kai)
10:30	H31	O 43	Graphene I
10:30	H32	O 44	Plasmonics and Nanooptics III
10:30	H33	O 45	Electronic structure I
10:30	H34	O 46	Density functional theory and beyond for real materials I
10:30	H36	O 47	Metal substrates: Adsorption of organic / bio molecules V
10:30	H40	O 48	Surface dynamics I

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O

10:30	H42	O 49	Surface chemical reactions I
09:30	H37	O 50	[CPP] Organic Electronics and Photovoltaics III (Joint Session DS/CPP/HL/O)
14:00	H36	O 51	Gaede-Prize talk (Linden, Stefan)
15:00	H31	O 52	Graphene II
15:00	H32	O 53	Plasmonics and Nanooptics IV
15:00	H33	O 54	Electronic structure II
15:00	H34	O 55	Density functional theory and beyond for real materials II
15:00	H36	O 56	Metal substrates: Adsorption of organic / bio molecules VI
15:00	H40	O 57	Surface dynamics II
15:00	H42	O 58	Surface chemical reactions II
17:45	Poster B1	O 59	Poster Session II (Nanostructures at surfaces: Dots, particles, clusters; Nanostructures at surfaces: arrays; Nanostructures at surfaces: Wires, tubes; Nanostructures at surfaces: Other; Plasmonics and nanooptics; Metal substrates: Epitaxy and growth; Metal substrates: Solid-liquid interfaces; Metal substrates: Adsoprtion of organic / bio molecules; Metal substrates: Adsoprtion of inorganic molecules; Metal substrates: Adsoprtion of O and/or H; Metal substrates: Clean surfaces; Density functional theory and beyond for real materials)
17:45	Poster B2	O 60	Poster Session III (Methods: Atomic and electronic structure; Methods: electronic structure theory; Methods: Molecular simulations and statistical mechanics; Methods: Sanning probe techniques; Methods: other (experimental); Methods: other (theory))

SOE

Invited Talk

09:30	H44	SOE 12.1	The hidden complexity of open source software •Frank Schweitzer

Sessions

09:30	H44	SOE 12	Social Systems, Opinion and Group Dynamics II
10:15	H44	SOE 13	Networks: From Topology to Dynamics I (with BP, DY)
14:00	H44	SOE 14	Social Systems, Opinion and Group Dynamics III
16:00	H44	SOE 15	Financial Markets and Risk Management I

ST

Sessions

09:30	H1	ST 8	Magnetism and Medicine (MA and ST)
14:00	H41	ST 9	Ultrasound and MRT
16:00	H41	ST 10	Basic and Applied Medical Physics (Poster Session)

TT

Invited Talks

11:15	H18	TT 19.8	Spectroscopy on Strongly Correlated Electron Materials •Liu Hao Tjeng
09:30	H20	TT 21.1	Quantum Criticality, Kondo Breakdown, and Fermi Surfaces •Qimiao Si
10:10	H20	TT 21.2	Tuning magnetic quantum phase transitions •Hilbert v. Löhneysen
10:50	H20	TT 21.3	Orbital-selective Mott transitions: Heavy Fermions and beyond •Matthias Vojta

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TT

11:40	H20	TT 21.4	Interaction of the magnetic instability and the Fermi surface reconstruction in $YbRh_2Si_2$ •Sven Friedemann, Tanja Westerkamp, Manuel Brando, Steffen Wirth, Niels Oeschler, Philipp Gegenwart, Cornelius Krellner, Christoph Geibel, Frank Steglich, Silke Bühler-Paschen, Stefan Kirchner, Qimiao Si
12:20	H20	TT 21.5	Novel electronic states near discontinous quantum phase transitions •Philipp Gegenwart
14:45	H18	TT 23.4	Superconducting Flux Qubits in Circuit QED and Detection of Weak Microwave Signals •Achim Marx, Alex Baust, Elisabeth Hoffmann, Matteo Mariantoni, Edwin P. Menzel, Thomas Niemczyk, Manuel Schwarz, Thomas Weissl, Enrique Solano, Juan J. Garcia-Ripoll, Frank Deppe, Hans Hübl, Rudolf Gross
15:30	H19	TT 24.6	Fermi Surface Evolution in an Electron-Doped Cuprate Superconductor Revealed by High-Field Magnetotransport •Mark Kartsovnik
14:00	H20	TT 25.1	Fermiology of Fe-Pnictide Superconductors Revealed by Quantum Oscillations •James Analytis
14:30	H20	TT 25.2	Magnetic degeneracy and hidden metallicity of the spin density wave state in Fe-based superconductors •Ilya Eremin
15:00	H20	TT 25.3	Muon spin relaxation and Moessbauer studies of iron pnictide superconductors •Hans-Henning Klauss, H. Maeter, T. Dellmann, H. Luetkens, R. Khasanov, A. Amato, Y. Pashkevich, C. Hess, R. Klingeler, B. Büchner, A. Leithe-Jasper, H. Rosner, C. Geibel, W. Schnelle, M. Braden, J. Litterst
15:45	H20	TT 25.4	Interplay among lattice, orbital and spin degrees of freedom in iron pnictides •Roser Valenti
16:15	H20	TT 25.5	Lattice dynamics and magnetism in layered iron based superconductors •Thomas Brückel, Yixi Su, Yinguo Xiao, Ranjan Mittal

Sessions

09:30	H18	TT 19	CE: Metal-Insulator Transition 2
09:30	H19	TT 20	SC: Fabrication and Characterization of Iron-Based and Other Superconductors
09:30	H20	TT 21	FS: Quantum Criticality in Strongly Correlated Metals
09:30	H21	TT 22	CE: Spin Systems and Itinerant Magnets
14:00	H18	TT 23	TR: Quantum Coherence and Quantum Information Systems 2
14:00	H19	TT 24	SC: Properties, Electronic Structure, Mechanisms
14:00	H20	TT 25	FS: Iron-Based Superconductors
14:00	H21	TT 26	CE: Heavy Fermions
14:00	Poster D1	TT 27	CE: Poster Session

VA

Session

14:00	H36	VA 6	Gaede-Prize Talk (with O and DS)

AIW

Sessions

14:00	Studententheater	AIW 1	DPG-Industrietag I

Wednesday, March 24, 2010

AIW

16:00	Studententheater	AIW 2	DPG-Industrietag II
18:00	Studententheater	AIW 3	Offene Diskussion und Come Together

SYAT

Invited Talks

14:30	H1	SYAT 1.1	Aging, ergodicity breaking and universal fluctuations in continuous time random walks: Theory and (possible) experimental manifestations •Igor Sokolov
15:00	H1	SYAT 1.2	Distinguishing anomalous from simple diffusion in crowded solutions and in cells with fluorescence correlation spectroscopy •Cecile Fradin, Daniel Banks, Shyemaa Shehata, Felix Wong, Robert Peters
15:30	H1	SYAT 1.3	Exploring Diffusion in Nanostructured Systems with Single Molecule Probes: From Nanoporous Materials to Living Cells •Christoph Bräuchle
16:30	H1	SYAT 2.1	The Lorentz model: a paradigm of anomalous transport •Felix Höfling
17:00	H1	SYAT 2.2	Viscoelastic subdiffusion: from anomalous to normal •Igor Goychuk
17:30	H1	SYAT 2.3	Phase transitions, liquid micro-compartments, and embryonic patterning •Clifford Brangwynne, Jöbin Gharakhani, Anthony Hyman, Frank Jülicher

Sessions

14:30	H1	SYAT 1	Anomalous Transport in Heterogeneous Media I
16:30	H1	SYAT 2	Anomalous Transport in Heterogeneous Media II

SYMM

Invited Talks

09:30	H1	SYMM 1.1	Magnetic resonance imaging: an ongoing success story •Jens Frahm
10:00	H1	SYMM 1.2	Biomedical nanomagnetics: A spin through new possibilities •Kannan Krishnan
10:30	H1	SYMM 1.3	Recent SQUID applications in medicine •Hans Koch
11:00	H1	SYMM 1.4	Biomedical Magnetic Resonance using Hyperpolarized Gases and Liquids •Laura Schreiber
11:30	H1	SYMM 1.5	Recent Developments in Healthcare Biomagnetics •Quentin Pankhurst
12:00	H1	SYMM 1.6	SQUIDs for Noninvasive Magnetogastrography •Alan Bradshaw, Leo Cheng, Andrew Pullan, William Richards

Session

09:30	H1	SYMM 1	Magnetism and Medicine

SYMR

Sessions

09:30	H48	SYMR 6	Polymer Dynamics
14:00	H37	SYMR 7	Biopolymers and Biomaterials
14:00	H48	SYMR 8	Glasses and Glass Transition
14:00	H41	SYMR 9	Ultrasound and MRT

Wednesday, March 24, 2010

			Job Market
13:15	PHY5.0.20		Was Forschung und Unternehmensberatung gemeinsam haben Basycon Unternehmensberatung
13:45	PHY5.0.21		Chancen für Wissenschaftler im innovativen Sensorikbereich Cluster Sensorik
9:00- 17:00	Foyer, Level 0 and 1, Gallery, RW1, RW2		Exhibition of scientific instruments and literature
9:00 17:00	PHY4		„Role models“-Exhibition
			Public Evening Talk (Entrance free)
20:00	H1	PV IX	Geht nicht gibt's nicht - der Wettlauf um den kleinsten Transistor und warum Handys immer kleinere Transistoren brauchen. •Christoph Kutter

Thursday, March 25, 2010

Plenary Talks

08:30	H1	PV X	Complex Networks: From Statistical Physics to the Cell •Albert-Laszlo Barabasi
13:00	H1	PV XI	Electronic Correlations in Models and Materials •Dieter Vollhardt (Laureate of the Max-Planck-Medal 2010)
18:00	H1	PV XII	Making and Breaking of Atomic Bonds in Carbon Tribocontacts •Peter Gumbsch, Michael Moseler, Lars Pastewka

BP

Invited Talks

10:00	H43	BP 23.1	Single-molecule Fluorescence Studies of RNA Folding and Function •Gerd Ulrich Nienhaus
14:00	H43	BP 26.1	Molecular misfolding investigated by mechanically unzipping nucleic acids •Felix Ritort

Sessions

09:30	H44	BP 22	Networks: From Topology to Dynamics II (joint DY, BP, SOE)
10:00	H43	BP 23	Biopolymers
10:15	H44	BP 24	Networks: From Topology to Dynamics III (joint DY, BP, SOE)
11:00	H45	BP 25	Focus: Charge Effects in Soft and Biological Matter I (joint CPP, BP, ST)
14:00	H43	BP 26	From Single-Molecule to Tissue Dynamics
14:00	H44	BP 27	Networks: From Topology to Dynamics IV (joint DY, BP, SOE)
14:00	H37	BP 28	Focus: Charge Effects in Soft and Biological Matter II (joint CPP, BP, ST)
14:30	H45	BP 29	Biomolecular Spectroscopy
16:00	H44	BP 30	Networks: From Topology to Dynamics V (joint DY, BP, SOE)
17:15	Poster B1	BP 31	Posters: Membranes and Vesicles
17:15	Poster B1	BP 32	Posters: Physics of Cells
17:15	Poster B1	BP 33	Posters: Neurobiophysics
17:15	Poster B2	BP 34	Posters: New Technologies
17:15	Poster B2	BP 35	Posters: Statistical Physics, Evolution, and Networks
17:15	Poster B2	BP 36	Posters: Tissue Dynamics, Charge Effects, and Anomalous Transport

CPP

Invited Talks

12:15	H48	CPP 40.11	Novel Nanocomposites in Industrial Applications - Chances and Challenges •Péter Krüger
11:00	H39	CPP 42.1	Local dynamics near the 2D-Glass Transition in Binary Colloidal Mixtures •Georg Maret, Florian Ebert, Sylvain Mazoyer, Peter Keim
09:30	H45	CPP 44.1	Glassy dynamics and charge transport in ionic liquids •Friedrich Kremer, Joshua Sangoro, Ciprian Iacob, Jörg Kärger
11:00	H45	CPP 45.1	Charge effects in RNA folding •Lois Pollack
11:45	H45	CPP 45.3	Origin of the electrophoretic force on DNA in solid-state nanopores •Serge G. Lemay
14:00	H37	CPP 46.1	Electrostatic effects on depletion forces •Roberto Piazza, Stefano Buzzaccaro, Jader Colombo, Alberto Parola
15:45	H37	CPP 46.6	In-silico simulation of reentrant protein condensation with highly valent counterions

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CPP

Sophie Weggler, Michael Ziller, Fajun Zhang, Frank Schreiber, Oliver Kohlbacher, •Andreas Hildebrandt

Sessions

09:30	H39	CPP 38	Micro and Nanofluidics II
09:45	H38	CPP 39	Glasses and Glass Transition II (jointly with DY and DF)
09:30	H48	CPP 40	Nanoparticles and Composite Materials I
14:00	H48	CPP 41	Nanoparticles and Composite Materials II
11:00	H39	CPP 42	Colloids and Complex Liquids I
14:00	H39	CPP 43	Colloids and Complex Liquids II
09:30	H45	CPP 44	Liquids and Ionic Liquids
11:00	H45	CPP 45	Focus: Charge Effects in Soft and Biological Matter I (jointly with BP)
14:00	H37	CPP 46	Focus: Charge Effects in Soft and Biological Matter II (jointly with BP)

DF

Invited Talks

10:00	H11	DF 15.1	Photons meet sound waves •Jan K Krüger, Roland Sanctuary
14:00	H11	DF 16.1	Succesive phase transitions in $(Gua)_4SO_4Cl_2$crystal - dielectric, pyroelectric, dilatometric and optical studies •Zbigniew Czapla, Artur Rokosa, Slawomir Dacko, Boguslaw Kosturek

Sessions

10:00	H11	DF 15	Optical and nonlinear optical properties, photonics II
14:00	H11	DF 16	Phase Transitions
15:30	H11	DF 17	Nano- and microstructured dielectrics
09:45	H38	DF 18	Glasses II (Joint Session of DY, DF, CPP)

DS

Invited Talks

09:30	H2	DS 30.1	Spin in organics, a new route to spintronics •Bert Koopmans
10:30	H2	DS 31.1	Spintronics with Organic Semiconductors •V. Alek Dediu
11:00	H2	DS 31.2	Muon measurements of spin transport and dynamics in organic semiconductors •Alan Drew
12:15	H2	DS 31.6	Role of the van der Waals interaction on the adsorption of organic molecules on surfaces •Nicolae Atodiresei
14:00	H2	DS 32.1	Spintronics below one nanometer •Laurent Limot
15:00	H2	DS 33.1	Spin-dependent tunneling through a single molecule with intramolecular resolution •Roland Wiesendanger
15:30	H2	DS 33.2	Tunneling through magnetic molecules: what can we learn from the master equation? •Carsten Timm, Florian Elste, Binhe Wu
16:15	H2	DS 34.1	Probing the structure and dynamics of biomolecules adsorbed on surfaces. •Peter Weightman

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DS

17:15	H2	DS 35.1	Surface enhanced infrared spectroscopy – pushing the detection limit towards zeptomolar sensitivity •Frank Neubrech, Daniel Weber, Jörg Bochterle, Annemarie Pucci
18:30	H2	DS 35.5	Infrared spectroscopic ellipsometry for the in-situ investigation of responsive polymer brushes •Dennis Aulich, Eva Bittrich, Klaus-Jochen Eichhorn, Petra Uhlmann, Manfred Stamm, Martin Brücher, Roland Hergenröder, Olha Hoy, Igor Luzinov, Norbert Esser, Karsten Hinrichs

Sessions

09:30	H2	DS 30	Invited Koopmans
10:30	H2	DS 31	Molecular Spintronics - Current Status and Challenges I (Focused Session)
14:00	H2	DS 32	Invited Limot
15:00	H2	DS 33	Molecular Spintronics - Current Status and Challenges II (Focused Session)
16:15	H2	DS 34	Invited Weightman
17:15	H2	DS 35	Biomolecular and Functional Organic Layers I (Focused Session)
09:30	H8	DS 36	Thin Film Characterisation: Structure Analyse and Composition (XRD, TEM, XPS, SIMS, RBS, ...) I
11:15	H8	DS 37	Thin Film Characterisation: Structure Analyse and Composition (XRD, TEM, XPS, SIMS, RBS, ...) II
14:00	H8	DS 38	Layer Properties: Electrical, Optical and Mechanical Properties
17:00	H8	DS 39	Layer Deposition Processes & Layer Growth
10:30	H32	DS 40	[O] Plasmonics and Nanooptics V (Joint Session DS/O/HL)
15:00	H32	DS 41	[O] Plasmonics and Nanooptics VI (Joint Session DS/O/HL)

DY

Invited Talks

09:30	H47	DY 24.1	Wind energy conversion - how statistical physics can improve our future energy supply •Stephan Barth, Matthias Wächter, Tanja Mücke, Joachim Peinke
12:30	H47	DY 24.10	Puzzles in Eulerian and Lagrangian turbulence •Rainer Grauer
14:00	H47	DY 28.1	Static correlation functions of integrable quantum chains •Frank Göhmann

Sessions

09:30	H44	DY 22	Networks: From Topology to Dynamics II (joint session of BP, DY, SOE)
10:15	H44	DY 23	Networks: From Topology to Dynamics III (joint session of BP, DY, SOE)
09:30	H47	DY 24	Turbulence and wind energy
09:45	H38	DY 25	Glasses II (joint session of CPP, DF, DY)
14:00	H44	DY 26	Networks: From Topology to Dynamics IV (joint session of BP, DY, SOE)
16:00	H44	DY 27	Networks: From Topology to Dynamics V (joint session of BP, DY, SOE)
14:00	H47	DY 28	Phase transitions and Critical Phenomena II
14:00	H46	DY 29	Spatially Extended Dynamical Systems
16:00	Poster C	DY 30	Posters II

19:00	H46		Annual General Meeting of the Dynamic and Statistical Physics Division

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HL

Invited Talks

09:30	H17	HL 51.1	All-epitaxial inorganic/organic semiconductor hybrid heterostructures •Fritz Henneberger
12:30	H15	HL 53.1	Self-lacing nanowires on semiconductor surfaces •Harold Zandvliet
14:00	H17	HL 57.1	Exploring Zinc Oxide: From band structure towards devices •Bruno Meyer
15:45	H17	HL 57.6	Interface Induced Gap States and ZnO Schottky Contacts •Steven M. Durbin, Martin W. Allen

Sessions

09:30	H13	HL 48	Semiconductor Lasers
09:30	H14	HL 49	Optical Properties
09:30	H15	HL 50	Graphene and Carbon Nanotubes
09:30	H17	HL 51	Invited Talk: F. Henneberger
10:00	H17	HL 52	Heterostructures
12:30	H15	HL 53	Invited Talk: H. Zandvliet
14:00	H13	HL 54	Photonic Crystals: Theory
14:00	H14	HL 55	Quantum Dots and Wires, Optical Properties IV: Spin
14:00	H15	HL 56	Non- and Semi-polar Group-III-Nitrides
14:00	H17	HL 57	Focussed Session: ZnO-based Semiconductors
16:00	H13	HL 58	Photonic Crystals: Experiment
16:00	H14	HL 59	Quantum Dots and Wires, Optical Properties V
18:00	Poster D1	HL 60	Poster II: Optical Properties, incl. Photonic Crystals and Ultrafast Phenomena
18:00	Poster D1	HL 61	Poster II: Materials, Interfaces and Heterostructures
18:00	Poster D2	HL 62	Poster II: Photovoltaics and Organic Semiconductors

KR

Session

17:00	H12	KR 4	Annual General Meeting of the Crystallography Division

MA

Invited Talks

09:30	H10	MA 22.1	Tailoring the spin functionality of a hybrid metal-organic interface by means of alkali metal doping •Mirko Cinchetti, Sabine Neuschwander, Jan-Peter Wüstenberg, Alexander Fischer, Martin Aeschlimann
14:00	H10	MA 26.1	Magnonics - Exploring spin waves on the nanoscale •Dirk Grundler
14:30	H10	MA 26.2	Spin dynamics of complex metallic magnets •Pawel Buczek, Arthur Ernst, Leonid Sandratskii

Sessions

09:30	H10	MA 22	Spin Dynamics / Spin Torque III
10:15	H3	MA 23	Micro- and Nanostructured Magnetic Materials III
10:15	H22	MA 24	Spinelectronics / Spin Injection in Heterostructures
10:15	H23	MA 25	Surface Magnetism / Magnetic Imaging I
14:00	H10	MA 26	Spin Dynamics / Spin Torque IV
17:15	H10	MA 27	Spin Structures and Magnetic Phase Transitions
15:15	H3	MA 28	Spin-dependent Transport Phenomena

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MA

15:15	H22	MA 29	Magnetic Semiconductors I
17:00	H22	MA 30	Electron Theory of Magnetism
15:15	H23	MA 31	Surface Magnetism / Magnetic Imaging II

MM

Invited Talks

09:30	H16	MM 45.1	"Novel" Materials for Lithium Ion Batteries and "Beyond-Lithium Ion Batteries" •Martin Winter, Stefano Passerini
10:15	H4	MM 47.1	Selecting a single orientation for millimeter sized graphene sheets •Raoul van Gastel, Alpha T. N'Diaye, Dirk Wall, Johann Coraux, Carsten Busse, Niemma M. Buckanie, Frank-J. Meyer zu Heringdorf, Michael Horn von Hoegen, Thomas Michely, Bene Poelsema
11:45	H4	MM 48.1	X-radiographic video microscopy studies of alloy solidification processes •Ragnvald H Mathiesen, Lars Arnberg
10:15	H6	MM 49.1	Mechanisms of intercalation, ionic motion and new metastable cathode materials •Stanley Whittingham
10:45	H6	MM 49.2	Ion conductivity and effects of mechanical treatment •Paul Heitjans, Martin Wilkening
12:15	H6	MM 50.1	Hysteresis due to non-monotone material behaviour inside many particle systems •Clemens Guhlke, Wolfgang Dreyer
14:00	H6	MM 57.1	Physical properties and synthesis of thin film materials for batteries •Nancy Dudney
15:45	H6	MM 58.1	Investigation of Microscopic Mechanisms and Mechanical Effects in Electrode Materials for Lithium-Ion Batteries •Reiner Mönig
16:30	H6	MM 58.3	New materials for energy storage systems •Margret Wohlfahrt-Mehrens

Sessions

09:30	H16	MM 45	HV Winter
10:15	H16	MM 46	Nanostructured Materials III
10:15	H4	MM 47	Topical Session Growth Kinetics III
11:45	H4	MM 48	Topical Session Growth Kinetics IV
10:15	H6	MM 49	Topical Session Battery Materials I
12:15	H6	MM 50	Topical Session Battery Materials II
10:15	H5	MM 51	Electronic Properties I
11:30	H5	MM 52	Electronic Properties II
14:00	H16	MM 53	Nanostructured Materials IV
15:15	H16	MM 54	Nanostructured Materials V
14:00	H4	MM 55	Topical Session Growth Kinetics V
15:30	H4	MM 56	Topical Session Growth Kinetics VI
14:00	H6	MM 57	Topical Session Battery Materials III
15:45	H6	MM 58	Topical Session Battery Materials IV
14:00	H5	MM 59	Phase Transitions I
15:30	H5	MM 60	Phase Transitions II

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O

Invited Talks

09:30	H36	O 61.1	Shining light on catalysis •Jeroen A. van Bokhoven
10:30	H33	O 64.1	Metal/Electrolyte interfaces under atmospheric corrosion conditions •Michael Rohwerder
11:00	H33	O 64.2	Copper Damascene Process: From the wafer to the atomic scale •Alexander Flügel, Dieter Mayer, Werner Reckien, Thomas Bredow, N.T.M. Hai, Peter Broekmann
11:30	H33	O 64.3	Atomic-scale dynamics and interactions at solid-liquid interfaces •Olaf Magnussen
14:00	H36	O 70.1	Sensing and controlling the spin of an atom by electric current •Sebastian Loth
15:00	H33	O 73.1	Theoretical studies on the electrocatalytic Oxygen reduction reaction on Pt •Timo Jacob
15:30	H33	O 73.2	Investigations on Pt based catalysts for PEM fuel cells: from model systems to high surface area catalysts •Matthias Arenz
16:00	H33	O 73.3	Computer Simulation of Electrolyte / Solid Interfaces •Eckhard Spohr

Sessions

09:30	H36	O 61	Invited talk (Van Bokhoven, Jeroen)
10:30	H31	O 62	Graphene III
10:30	H32	O 63	Plasmonics and Nanooptics V
10:30	H33	O 64	Solid/liquid interfaces I (focussed session)
10:30	H34	O 65	Density functional theory and beyond for real materials III
10:30	H36	O 66	Nanotribology I
10:30	H37	O 67	Gerhard Ertl Young Investigator Award (talks of the selected canditates)
10:30	H42	O 68	Semiconductor substrates: Epitaxy and growth
09:30	H1	O 69	Symposium Polarization Field Control in Group-III-Nitrides
14:00	H36	O 70	Invited talk (Loth, Sebastian)
15:00	H31	O 71	Metal substrates: Epitaxy and growth
15:00	H32	O 72	Plasmonics and Nanooptics VI
15:00	H33	O 73	Solid/liquid interfaces II (focussed session)
15:00	H34	O 74	Nanostructures at surfaces: Other
15:00	H36	O 75	Nanotribology II
15:00	H38	O 76	Nanostructures at surfaces: Wires, tubes
15:00	H42	O 77	Oxides and insulators: Epitaxy and growth
14:45	H1	O 78	Symposium Density functional theory and beyond for real materials
19:30	H1	O 79	Annual General Meeting of the Surface Science Division
20:00	H1	O 80	Post Deadline Session

SOE

Invited Talk

09:30	H44	SOE 17.1	Wave localization in complex networks •Jan W. Kantelhardt, Lukas Jahnke, Richard Berkovits, Shlomo Havlin

Sessions

08:30	H1	SOE 16	Plenary Talk Barabasi
09:30	H44	SOE 17	Networks: From Topology to Dynamics II (with BP, DY)
10:15	H44	SOE 18	Networks: From Topology to Dynamics III (with BP, DY)

Thursday, March 25, 2010

SOE

14:00	H44	SOE 19	Networks: From Topology to Dynamics IV (with BP, DY)
16:00	H44	SOE 20	Networks: From Topology to Dynamics V (with BP, DY)
10:15	H46	SOE 21	Financial Markets and Risk Management II

ST

Sessions

09:30	H41	ST 11	High-LET Radiation Therapy 1
11:00	H41	ST 12	High-LET Radiation Therapy 2
14:00	H41	ST 13	Low-LET Radiation Therapy
14:45	H41	ST 14	Radiation Physics (Poster Session)
15:45	H41	ST 15	Biokinetic Measurements and Models

TT

Invited Talks

09:30	H18	TT 28.1	Angle- and time-resolved photoelectron spectroscopy of charge density wave materials •Uwe Bovensiepen
10:00	H18	TT 28.2	Many Body Theory for Time-Resolved Pump/Probe Photoemission and its Solution via Nonequilibrium Dynamical Mean-Field Theory •James Freericks
10:45	H18	TT 28.4	Time resolved photoemission and THz spectroscopy of high temperature superconductors •Luca Perfetti
11:30	H18	TT 28.5	Relaxation of strongly correlated electron systems: Insights from nonequilibrium dynamical mean-field theory •Martin Eckstein
12:15	H18	TT 28.7	Two-Component Dynamics of the Order Parameter of High Temperature $Bi_2Sr_2CaCu_2O_{8+\delta}$ Superconductors Revealed by Time-Resolved Raman Scattering •Michael Alexander Rübhausen
14:45	H18	TT 32.4	Dispersion of the Excitations of Fractional Quantum Hall States •Jurgen Smet, Igor Kukushkin, Vito Scarola, Vladimir Umansky, Klaus von Klitzing

Sessions

09:30	H18	TT 28	FS: Time-Resolved Spectroscopy in Correlated Electron Systems: \newline Experiment and Theory
09:30	H19	TT 29	TR: Nanoelectronics I: Quantum Dots, Wires, Point Contacts 1
09:30	H20	TT 30	CE: Low-dimensional Systems - Models 1
09:30	H21	TT 31	SC: Tunnelling, Josephson Junctions
14:00	H18	TT 32	MLT: Quantum Liquids, Bose-Einstein Condensates, Ultra-cold Atoms, . 2
14:00	H19	TT 33	TR: Nanoelectronics I: Quantum Dots, Wires, Point Contacts 2
14:00	H20	TT 34	SC: Iron-Based Superconductors - 122
14:00	H21	TT 35	TR: Nanoelectronics III: Molecular Electronics 1
14:00	Poster A	TT 36	TR: Poster Session
14:00	Poster A	TT 37	MLT: Poster Session

18:30	H19		Annual General Meeting of the Low Temperature Physics Division

Thursday, March 25, 2010

SYDF

Invited Talks

14:45	H1	SYDF 1.1	Downfolded Self-Energy of Many-Electron Systems and the Hubbard U •Ferdi Aryasetiawan
15:15	H1	SYDF 1.2	LDA+Gutzwiller method for correlated electron systems •Zhong Fang
15:45	H1	SYDF 1.3	Localized and itinerant states in *d/f*-electron systems unified by *GW* @LDA+*U* •Hong Jiang
16:30	H1	SYDF 1.4	Giant polaronic effects in solids and nanstructures •Andrea Marini
17:00	H1	SYDF 1.5	Excitation energies with time-dependent density *matrix* functional theory •Evert Jan Baerends, Klaas J. H. Giesbertz, Oleg Gritsenko, Katarzyna Pernal
17:30	H1	SYDF 1.6	Calculations of multipoles in magnetic metals and insulators •Lars Nordström

Session

14:45	H1	SYDF 1	Density Functional Theory and Beyond for Real Materials

SYPN

Invited Talks

09:30	H1	SYPN 1.1	Growth and applications of N-polar (Al,Ga,In)N •Stacia Keller, Umesh K Mishra
10:00	H1	SYPN 1.2	Green light-emitting diodes and laser heterostructures on semi-polar GaN(11-22)/sapphire substrates •Andre Strittmatter
10:30	H1	SYPN 1.3	Pros and cons of green InGaN lasers on polar GaN substrates •Uwe Strauss, Adrian Avramescu, Teresa Lermer, Jens Müller, Christoph Eichler, Stephan Lutgen
11:15	H1	SYPN 1.4	Molecular beam epitaxy as a method for the growth of free-standing zinc-blende GaN layers and substrates. •Sergei Novikov, Thomas Foxon, Anthony Kent
11:45	H1	SYPN 1.5	Three-dimensional GaN for semipolar light emitters •Thomas Wunderer, Frank Lipski, Stephan Schwaiger, Ferdinand Scholz, Martin Feneberg, Klaus Thonke, Andrey Chuvilin, Ute Kaiser, Sebastian Metzner, Frank Bertram, Jürgen Christen, Clemens Vierheilig, Ulrich Schwarz

Session

09:30	H1	SYPN 1	Polarization Field Control in Group-III-Nitrides

Job Market

13:15	PHY5.0.20		Was Forschung und Unternehmensberatung gemeinsam haben Basycon Unternehmensberatung
13:45	PHY5.0.21		Chancen für Wissenschaftler im innovativen Sensorikbereich Cluster Sensorik

Thursday, March 25, 2010

		Job Market
13:15	PHY5.0.20	Die schriftliche Bewerbung – das Ticket zum Erfolg Team Akademische Berufe der Agentur für Arbeit
13:45	PHY5.0.21	Einstiegsmöglichkeiten von Naturwissenschaftlern in der Unternehmensberatung Accenture Management Consulting
9:00-17:00	Foyer, Level 0 and 1, Gallery, RW1, RW2	Exhibition of scientific instruments and literature
9:00-17:00	PHY4	„Role models“-Exhibition

Friday, March 26, 2010

Plenary Talks

08:30	H1	PV XIII	Controlling Magnetism by Light •Theo Rasing
09:15	H1	PV XIV	Transparent Electronics •Marius Grundmann

BP

Invited Talk

10:00	H43	BP 37.1	Pearls and Feathers: New Concepts and Inspiration for Plant's Design •Ingrid Weiss, Eduard Arzt, Helmut Kirchner

Sessions

10:00	H43	BP 37	Biomaterials
10:15	H45	BP 38	Focus: Charge Effects in Soft and Biological Matter III (joint CPP, BP, ST)

CPP

Invited Talks

10:15	H45	CPP 47.1	Charge inversion in macromolecular systems •Christian Holm
10:15	H39	CPP 48.1	Structural arrangement and picosecond dynamics of phospholipids in colloidal systems •Tobias Unruh, Sebastian Busch, Martin Schmiele

Sessions

10:15	H45	CPP 47	Focus: Charge Effects in Soft and Biological Matter III (jointly with BP)
10:15	H39	CPP 48	Colloids and Complex Liquids III
10:15	H48	CPP 49	Elastomers and Gels

DS

Invited Talks

10:15	H2	DS 42.1	A molecular view of the interfaces of colloidal particles and nanoscopic oil droplets in water •Sylvie Roke
11:15	H2	DS 43.1	High resolution studies of bio-molecules using TERS •Volker Deckert
12:15	H2	DS 43.4	Molecular orientation in phthalocyanine films assessed by combined optical and magneto-optical investigations •Georgeta Salvan, Michael Fronk, Björn Bräuer, Dietrich R. T. Zahn, Oliver G. Schmidt, Jens Kortus
13:30	H2	DS 43.8	*In-silico* optimization of function and emissive properties of Silicon nanoparticles •Thomas Niehaus

Sessions

10:15	H2	DS 42	Invited Roke
11:15	H2	DS 43	Biomolecular and Functional Organic Layers II (Focused Session)
10:15	H8	DS 44	Organic Thin Films I
12:00	H8	DS 45	Organic Thin Films II
14:00	H8	DS 46	Organic Thin Films III
11:15	H32	DS 47	[O] Plasmonics and Nanooptics VII (Joint Session DS/O/HL)

Friday, March 26, 2010

DS

11:15	H40	DS 48	[O] Organic Electronics and Photovoltaics III (Joint Session DS/CPP/HL/O)

DY

Invited Talks

10:15	H38	DY 31.1	Real-time transport and dynamics in strongly interacting one-dimensional systems •Fabian Heidrich-Meisner
12:30	H38	DY 31.9	Noise controlled transport in constrained geometries •Fabio Marchesoni

Sessions

10:15	H38	DY 31	Statistical Physics far from Equilibrium
10:15	H47	DY 32	Fluid Dynamics
10:45	H46	DY 33	Nonlinear Dynamics II

HL

Sessions

10:15	H13	HL 63	III-V Semiconductors
10:15	H14	HL 64	Quantum Dots and Wires: Optical Properties VI
10:15	H15	HL 65	GaN-based Devices
10:15	H17	HL 66	ZnO-based Devices
10:15	H16	HL 67	Organic Semiconductors: Solar Cells II (Joint Session with DS/CPP/O)
11:30	H17	HL 68	II-VI Semiconductors: mainly Optical Properties

MA

Invited Talk

10:15	H10	MA 32.1	Light-Induced Magnetization in Colloidal Semiconductor Nanocrystals •Gerd Bacher, Lars Schneider, Remi Beaulac, Paul I. Archer, Daniel R. Gamelin

Sessions

10:15	H10	MA 32	Magnetic Semiconductors II
11:00	Poster B1	MA 33	Poster II

O

Invited Talks

10:15	H36	O 81.1	Towards the computational design of heterogeneous catalysts •Thomas Bligaard
13:30	H36	O 89.1	Evidence for exciton condensation in layered TiSe2: A photoemission study •Philipp Aebi
14:15	H36	O 90.1	Surface Science and Electrocatalysis - Where do we stand? •R. Jürgen Behm

Sessions

10:15	H36	O 81	Invited talk (Bligaard, Thomas)
11:15	H31	O 82	Graphene IV
11:15	H32	O 83	Plasmonics and Nanooptics VII
11:15	H34	O 84	Density functional theory and beyond for real materials IV
11:15	H36	O 85	Metal substrates: Adsorption of organic / bio molecules VII

Friday, March 26, 2010

O

11:15	H40	O 86	Organic, electronics and photovoltaics
11:15	H42	O 87	Methods: Other (experimental)
10:15	H1	O 88	Symposium Nanotribology
13:30	H36	O 89	Invited talk (Aebi, Philipp)
14:15	H36	O 90	Invited talk (Behm, Jürgen)

SOE

Invited Talk

09:30	H44	SOE 22.1	Hypergraphs and social systems •Guido Caldarelli

Sessions

09:30	H44	SOE 22	Social Systems, Opinion and Group Dynamics III
10:15	H44	SOE 23	Finanacial Markets and Risk Management III

TT

Invited Talks

11:00	H18	TT 38.4	Neutron Scattering Studies of Spin-Ladders •Bella Lake, Alexei M. Tsvelik, Susanne Notbohm, D. Alan Tennant, Toby G. Perring, Manfred Reehuis, Chinnathambi Sekar, Gernot Krabbes, Bernd Büchner
10:15	H20	TT 40.1	Heating, Heat Conduction and Cooling in Molecular Junctions •Abraham Nitzan, Michael Galperin, Keiji Saito

Sessions

10:15	H18	TT 38	CE: Quantum-Critical Phenomena 2
10:15	H19	TT 39	SC: Iron-Based Superconductors - 1111
10:15	H20	TT 40	TR: Nanoelectronics III: Molecular Electronics 2
10:15	H21	TT 41	CE: Low-dimensional Systems - Models 2

SYNT

Invited Talks

10:15	H1	SYNT 1.1	Atomic friction under ultrahigh vacuum conditions •Ernst Meyer, Enrico Gnecco, Pascal Steiner, Gregor Fessler, Sascha Koch, Thilo Glatzel, Alexis Baratoff, Mircin Kisiel, Urs Gysin, Akshata Rao, Shigeki Kawai, Sabine Maier
10:45	H1	SYNT 1.2	Layering and Squeeze-out Damping in Confined Liquid Films •Frieder Mugele
11:15	H1	SYNT 1.3	Wear on the nanoscale: mechanisms and materials •Bernd Gotsmann, Mark A. Lantz, Harish Bhskaran, Abu Sebastian, Ute Drechsler, Michel Despont, Yun Chen, Kumar Sridharan, Papot Jaroenapibal, Robert Carpick
11:45	H1	SYNT 1.4	Friction at the Nanoscale: Insights from Atomistic Simulations •Izabela Szlufarska, Yifei Mo, Yun Liu, Maneesh Mishra
12:15	H1	SYNT 1.5	The friction of wrinkles •Martin H. Müser, Hamid Mohammadi
12:45	H1	SYNT 1.6	Influence of humidity on nano- and micromechanical contact adhesion •Hans-Jürgen Butt

Session

10:15	H1	SYNT 1	Symposium Nanotribology

Friday, March 26, 2010

LT

Invited Talks

09:00	H4	LT 1.1	Zeitungsaufgaben und Co.: Einsatzmöglichkeiten, Effektivität und Optimierung authentischer Lernmedien im Physikunterricht •Jochen Kuhn
10:00	H4	LT 1.2	Bildungsstandards, Basiskonzepte et al. - Anforderungen und mögliche Wege zur Umsetzung •Heike Theyßen
11:00	H4	LT 1.3	Der Turm der Sinne als außerschulischer Lernort •Markus Elsholz, Rudolf Pausenberger
11:35	H4	LT 1.4	Mit der Schulklasse ins Deutsche Museum - Physik lernen automatisch inbegriffen? •Chrstine Waltner
14:00	H4	LT 2.1	Vounterrichtliche Vorstellungen und ihre Bedeutung für das Lehren und Lernen von Physik •Jens Wilbers
15:00	H4	LT 2.2	Spin + Elektronik = Spinelektronik •Dieter Weiss
16:00	H4	LT 2.3	Zweidimensional-Dynamischer Zugang zur Mechanik in der 7. Jahrgangsstufe •Christine Waltner
09:00	H3	LT 5.1	Experimente im naturwissenschaftlichen Sachunterricht •Florian Ziegler
10:00	H5	LT 6.1	Feuer und Flamme - naturwissenschaftliches Lernen in der Grundschule •Angelika Schultheis
10:00	H6	LT 7.1	Magnetismus im Heimat- und Sachunterricht •Hartmut Wiesner, Alexander Rachel
10:00	H9	LT 8.1	Experimentieren mit dem Akademiebericht 404: Naturwissenschaften in der Grundschule •Rudolf Pausenberger, Markus Elsholz, Florian Ziegler
14:00	H5	LT 9.1	Schenken Sie uns Gehör! Seien Sie ganz Ohr! - Experimente rund ums Hören •Anja Göhring, Michael Haider, Manuel Streubert
14:00	H6	LT 10.1	Experiment und Erkenntnis im naturwissenschaftlichen Sachunterricht •Peter Pfeifer
14:00	H9	LT 11.1	Experimentieren mit dem Akademiebericht 404: Naturwissenschaften in der Grundschule •Florian Ziegler, Rudof Pausenberger, Markus Elsholz

Sessions

09:00	H4	LT 1	Lehrertage I
14:00	H4	LT 2	Lehrertage II
09:00	H3	LT 5	Grundschule: Einführender Vortrag
10:00	H5	LT 6	Grundschule: Workshop 1.1
10:00	H6	LT 7	Grundschule: Workshop 1.2
10:00	H9	LT 8	Grundschule: Workshop 1.3
14:00	H5	LT 9	Grundschule: Workshop 2.1
14:00	H6	LT 10	Grundschule: Workshop 2.2
14:00	H9	LT 11	Grundschule: Workshop 2.3

Friday, March 26, 2010

Job Market

13:15	PHY5.0.20	Osram Opto – der Partner für ihre Karriere Osram Opto
13:45	PHY5.0.21	Karrierewege beim Bundesnachrichtendienst Bundesnachrichtendienst

Saturday, March 27, 2010

Invited Talks

			LT
09:00	H4	LT 3.1	Selbstgemachte Videoclips für den Physikunterricht •Beat Schären
10:00	H4	LT 3.2	Modelle – Schlüsselbegriff für Forschungs- und Lernprozesse in der Physik •Silke Mikelskis-Seifert
11:00	H4	LT 3.3	Aufgaben mit gestuften Lernhilfen – Ein Aufgabenformat mit vielen Chancen •Gudrun Franke-Braun, Rita Wodzinski
14:00	H4	LT 4.1	Theoretische und experimentelle Untersuchungen des Radiometerffekts anhand einer Lichtmühle •Florian Dams
15:00	H4	LT 4.2	Lehrplanalternative Biophysik •Andreas Thalmaier

Sessions

09:00	H4	LT 3	Lehrertage III
14:00	H4	LT 4	Lehrertage IV