

Synopsis of the Daily Programme

Sunday, March 25, 2007

| | | | |
|-------|-----------------|------|--|
| | | | DF |
| | | | Session |
| 14:00 | H11 | DF 1 | Tutorial "Basics of Dielectric Solids" |
| | | | HL |
| | | | Session |
| 14:00 | H1 | HL 1 | Tutorial on Semiconductor Spintronics |
| 18:00 | Foyer (Audimax) | | Informal welcome evening |

Monday, March 26, 2007

| | | | |
|-------|-----|--------|--|
| | | | BP |
| | | | Plenary Talks |
| 08:30 | H1 | PV I | Understanding Nanostructures: Nanotubes, Nanowires, and Graphene Nanoribbons •Steven G. Louie |
| 18:00 | H1 | PV IV | Venus Express •Martin Pätzold |
| 19:00 | H1 | PV V | Geschlechtergerechtes Lehren und Lernen von Physik im Studium •Monika Bessenrodt-Weberpals |
| | | | Special Session "h-index" |
| 13:00 | H1 | PV II | The h-index: how useful is it as a measure of scientific achievement? •Jorge E. Hirsch |
| 13:30 | H1 | PV III | Is it any good? Measuring scientific merit •Philip Ball |
| | | | BP |
| | | | Invited Talks |
| 09:30 | H43 | BP 1.1 | Physical Aspects of Evolutionary Transitions to Multicellularity •Raymond Goldstein |
| 10:00 | H43 | BP 1.2 | Surfing genes: On the fate of neutral mutations in spreading populations •Oskar Hallatschek, David Nelson |
| 14:00 | H43 | BP 3.1 | On the Timescales of Membrane Fusion •Rumiana Dimova |
| 10:30 | H44 | BP 5.1 | Force induced strengthening of binding domains in specifically adhered vesicles •Ana-Suncana Smith |
| | | | Sessions |
| 09:30 | H43 | BP 1 | Evolutionary and Population Dynamics |
| 12:15 | H43 | BP 2 | Protein Function |

Monday, March 26, 2007

BP

| | | | |
|-------|-----|------|--------------------------------------|
| 14:00 | H43 | BP 3 | Membranes and Interfaces |
| 17:30 | H43 | BP 4 | Protein Structure and Folding |
| 10:30 | H44 | BP 5 | Cell Adhesion |
| 14:30 | H44 | BP 6 | Biopolymer Conformation and Dynamics |
| 16:15 | H44 | BP 7 | Fibers and Bundles |
| 18:00 | H44 | BP 8 | Charge Transfer |

CPP**Invited Talks**

| | | | |
|-------|-----|---------|---|
| 09:30 | H37 | CPP 1.1 | Dynamic Processes in Supramolecular Nanoassemblies •Christian von Borczyskowski |
| 14:00 | H37 | CPP 4.1 | Direct measurement of critical Casimir forces Christopher Hertlein, Laurent Helden, •Clemens Bechinger |

Sessions

| | | | |
|-------|----------|-------|---|
| 09:30 | H37 | CPP 1 | Supramolecular Aggregates |
| 10:00 | H40 | CPP 2 | Polymer Physics I |
| 10:00 | H47 | CPP 3 | Colloids and Nanoparticles I: Structure |
| 14:00 | H37 | CPP 4 | Colloids and Nanoparticles II: Effective Interactions |
| 14:30 | H40 | CPP 5 | Polymer Physics II |
| 14:30 | H47 | CPP 6 | Dynamics of Molecular Systems |
| 16:00 | Poster B | CPP 7 | POSTER: INTERNAL SYMPOSIUM Scattering Experiments |
| 16:00 | Poster B | CPP 8 | POSTER: Polymer Physics |
| 16:00 | Poster B | CPP 9 | POSTER: Colloids and Nanoparticles |

DD**Invited Talks**

| | | | |
|-------|-----|--------|--|
| 11:15 | H31 | DD 1.1 | Challenges of Preparing Physics Teachers in the United States •Dean Zollman, Brian Adrian, Scott Stevens |
| 15:45 | H31 | DD 7.1 | Blicke auf Physikunterricht in der Tschechischen Republik: Ausgewählte Ergebnisse der CPV Videostudie Physik •Tomas Janik, Marcela Mikova |

Sessions

| | | | |
|-------|------------|-------|---|
| 10:30 | H31 | DD 1 | Eröffnung und Invited Talk 1 |
| 14:15 | M 101 | DD 2 | Hochschuldidaktik |
| 14:15 | M 102 | DD 3 | Neue Medien I |
| 14:15 | M 103 | DD 4 | Praktika I (Projektpraktikum) |
| 14:15 | M 104 | DD 5 | Neue Konzepte I (Modellieren) |
| 14:15 | Phy 5.o.21 | DD 6 | Neue Konzepte II (orthodoxe Kritiker) |
| 15:45 | H31 | DD 7 | Invited Talk 2 |
| 17:00 | M 101 | DD 8 | Lehreraus- und -fortbildung I (diverses) |
| 17:00 | M 102 | DD 9 | Neue Medien II |
| 17:00 | M 103 | DD 10 | Neue Konzepte III (Experiment) |
| 17:00 | M 104 | DD 11 | Sonstiges I (neue Forschungsperspektiven) |
| 17:00 | Phy 5.o.21 | DD 12 | Neue Konzepte IV (diverses) |

DF**Invited Talks**

| | | | |
|-------|-----|--------|--|
| 10:00 | H11 | DF 2.1 | Steuerung von Licht durch nichtlineare Brechungsindexänderungen - Perspektiven für den photonischen Chip •Cornelia Denz, Bernd Terhalle, Christoph Bersch, Philip Jander, Jörg Imbrock |
|-------|-----|--------|--|

Monday, March 26, 2007

DF

| | | | |
|-------|-----|--------|--|
| 14:30 | H11 | DF 3.1 | Investigation of relaxor ferroelectrics by piezoresponse force microscopy •Vladimir Shvartsman, Wolfgang Kleemann |
| | | | Sessions |
| 10:00 | H11 | DF 2 | Internal Symposium "Nonlinearities of Photonic Materials" |
| 14:30 | H11 | DF 3 | Relaxor Ferroelectrics |

DS

| | | | |
|-------|-----|--------|---|
| | | | Invited Talk |
| 14:30 | H34 | DS 8.1 | Processing, properties and application potential of nanostructured hard coatings •Paul Mayrhofer |
| | | | Sessions |
| 09:30 | H32 | DS 1 | Organic Thin Films I |
| 11:15 | H32 | DS 2 | Organic Thin Films II |
| 09:30 | H34 | DS 3 | Metal Layers and Multilayers |
| 11:15 | H34 | DS 4 | Nanoengineered Thin Films |
| 14:30 | H32 | DS 5 | Organic Interfaces (SYOE 1) |
| 16:00 | H32 | DS 6 | Organic Photovoltaics (SYOE 2) |
| 18:00 | H32 | DS 7 | Organic Film Aging (SYOE 3) |
| 14:30 | H34 | DS 8 | Hard Coatings I |
| 15:15 | H34 | DS 9 | Hard Coatings II |
| 17:15 | H34 | DS 10 | Layers with Magnetic Properties |

DY

| | | | |
|-------|----|--------|--|
| | | | Invited Talks |
| 09:30 | H2 | DY 1.1 | Towards a Dynamical Theory of Crack Propagation •Itamar Procaccia |
| 10:00 | H2 | DY 1.2 | Scaling properties of fracture surfaces •Elisabeth Bouchaud |
| 10:30 | H2 | DY 1.3 | Scaling of Fronts in Gradient Percolation •Alex Hansen |
| 11:00 | H2 | DY 1.4 | Fragmentation phenomena •Ferenc Kun, Falk Wittel, Hans Herrmann |
| 14:00 | H2 | DY 5.1 | Dynamics of Dunes •Hans Herrmann |
| | | | Sessions |
| 09:30 | H2 | DY 1 | Internal Symposium: Physics of fracture |
| 10:30 | H3 | DY 2 | Time-delayed feedback and neural networks |
| 12:00 | H2 | DY 3 | Critical phenomena and phase transitions |
| 12:00 | H3 | DY 4 | Statistical physics of complex networks I |
| 14:00 | H2 | DY 5 | Fluid dynamics I |
| 14:30 | H3 | DY 6 | Statistical physics of complex networks II |
| 14:30 | H5 | DY 7 | Statistical physics far from thermal equilibrium |
| 16:15 | H2 | DY 8 | Quantum dynamics, decoherence and quantum information |
| 16:30 | H3 | DY 9 | Statistical physics in biological systems |
| 16:30 | H5 | DY 10 | Growth processes and surface properties |

Monday, March 26, 2007

EP

Invited Talks

| | | | |
|-------|-----|--------|---|
| 09:30 | H46 | EP 1.1 | Neutrino astrophysics at high energies: status and prospects •Christian Spiering |
| 10:30 | H46 | EP 1.4 | Astroteilchenphysik in Deutschland •Karl Mannheim |
| 11:30 | H46 | EP 2.1 | eROSITA: telescope calibration and science expectations •Michael Freyberg |
| 12:30 | H46 | EP 3.1 | Europäische Forschungsförderung •Sabine Preusse |

Sessions

| | | | |
|-------|-----|------|-------------------------------|
| 09:30 | H46 | EP 1 | Astrophysik I |
| 11:30 | H46 | EP 2 | Astrophysik II |
| 12:30 | H46 | EP 3 | Forschungsförderung |
| 14:00 | H46 | EP 4 | Mars I |
| 16:00 | H46 | EP 5 | Mars II, Venus, Merkur, Pluto |

GP

Invited Talks

| | | | |
|-------|-----|--------|--|
| 13:10 | H35 | GP 1.1 | Wie kann man 'unsichtbare Hände' sichtbar machen? •Klaus Hentschel |
| 16:15 | H35 | GP 3.1 | Die "rechte Hand des Naturforschers"? Naturwissenschaftliche Zeichner •Elke Schulze |

Sessions

| | | | |
|-------|-----|------|---|
| 13:00 | H35 | GP 1 | Eröffnung |
| 13:55 | H35 | GP 2 | Formen der Kooperation von der frühen Neuzeit bis ins 19. Jahrhundert |
| 16:15 | H35 | GP 3 | Universitätszeichner |
| 18:15 | H35 | | Annual General Meeting of the Section History of Physics |

HL

Invited Talks

| | | | |
|-------|-----|--------|---|
| 09:15 | H15 | HL 2.1 | Metamaterials: Magnetism enters photonics •Martin Wegener |
| 10:00 | H15 | HL 3.1 | Wide-bandgap quantum dot based microcavity VCSEL structures •K. Sebald, H. Lohmeyer, J. Gutowski, C. Kruse, R. Kröger, T. Yamaguchi, A. Gust, D. Hommel, J. Wiersig, F. Jahnke |
| 14:00 | H15 | HL 8.1 | Coupling phenomena in dual electron waveguide structures •Saskia Fischer, Sven Bucholz, Gabriela Aptetree, Ulrich Kunze, Dieter Schuh, Gerhard Abstreiter |

Sessions

| | | | |
|-------|-----|------|--|
| 09:15 | H15 | HL 2 | Invited Talk Wegener |
| 10:00 | H15 | HL 3 | Invited Talk Sebald |
| 10:45 | H13 | HL 4 | Semiconductor Laser I |
| 11:00 | H14 | HL 5 | Photovoltaic |
| 11:00 | H15 | HL 6 | Quantum dots and wires: preparation and characterization I |
| 11:00 | H17 | HL 7 | III-V semiconductors I |
| 14:00 | H15 | HL 8 | Invited Talk Fischer |
| 14:45 | H13 | HL 9 | Semiconductor Laser II |

Monday, March 26, 2007

HL

| | | | |
|-------|----------|-------|--|
| 14:45 | H14 | HL 10 | Organic semiconductors |
| 14:45 | H15 | HL 11 | Quantum dots and wires: Transport properties I |
| 14:45 | H17 | HL 12 | Quantum dots and wires: Optical properties I |
| 15:00 | Poster A | HL 13 | Poster 1 |
| 16:00 | H14 | HL 14 | Si/Ge |
| 17:15 | H13 | HL 15 | Preparation and characterization |

MA

Invited Talks

| | | | |
|-------|-----|--------|---|
| 09:30 | H10 | MA 1.1 | Magnetovolume effects in L ₁ Fe-Pt alloys •Julia Lyubina, Ingo Opahle, Manuel Richter, Olivier Isnard, Oliver Gutfleisch, Karl-Hartmut Müller, Ludwig Schultz |
| 14:00 | H10 | MA 5.1 | Novel magnetoresistive effect in organic semiconductors •Ralph Paetzold, Manfred Ruehrig, Joachim Wecker |
| 14:30 | H10 | MA 5.2 | Structural and magnetic properties of transition metal nanoparticles from first principles •Markus Ernst Gruner, Georg Rollmann, Alfred Hucht, Peter Entel |

Sessions

| | | | |
|-------|-----|-------|---|
| 09:30 | H10 | MA 1 | Invited Talk Lyubina |
| 10:15 | H10 | MA 2 | Magnetic Particles/Clusters I |
| 10:15 | H22 | MA 3 | Magnetic Materials I |
| 10:15 | H23 | MA 4 | Electron Theory of Magnetism |
| 14:00 | H10 | MA 5 | Invited Talks Pätzold / Gruner |
| 15:15 | H10 | MA 6 | Magnetic Particles/Clusters II |
| 17:00 | H10 | MA 7 | Micromagnetism/Computational Magnetics |
| 15:15 | H22 | MA 8 | Magnetic Materials II |
| 17:15 | H22 | MA 9 | Anisotropy/Magnetoelasticity |
| 15:15 | H23 | MA 10 | Spinelectronics/Spininjection in Heterostructures |

MM

Invited Talks

| | | | |
|-------|-----|--------|--|
| 09:30 | H16 | MM 1.1 | Size Effects in Metal Plasticity •Erica Lilleodden |
| 10:15 | H16 | MM 2.1 | Effect of hydrogen and grain boundaries on dislocation nucleation and multiplication examined with a Ni-AFM •Horst Vehoff, Afrooz Banoush |
| 14:00 | H16 | MM 7.1 | Metallic Glasses •Lindsay Greer |

Sessions

| | | | |
|-------|-----|-------|------------------------------------|
| 09:30 | H16 | MM 1 | HV Lilleodden |
| 10:15 | H16 | MM 2 | SYM Micro- and Nanomechanics I |
| 10:15 | H4 | MM 3 | Liquid and amorphous materials I |
| 11:45 | H4 | MM 4 | Liquid and amorphous materials II |
| 10:15 | H6 | MM 5 | Interfaces I |
| 11:45 | H6 | MM 6 | Interfaces II |
| 14:00 | H16 | MM 7 | HV Greer |
| 14:45 | H16 | MM 8 | SYM Micro- and Nanomechanics II |
| 14:45 | H4 | MM 9 | Liquid and amorphous materials III |
| 16:15 | H4 | MM 10 | Liquid and amorphous materials IV |
| 14:45 | H6 | MM 11 | Interfaces III |
| 16:15 | H6 | MM 12 | Growth |

Invited Talks

| | | | |
|-------|-----|--------|--|
| 09:30 | H36 | O 2.1 | Broken symmetry states at surfaces: the ARPES view •Marco Grioni |
| 10:15 | H36 | O 3.1 | Some aspects of chirality in molecules adsorbed at metal surfaces •Neville Richardson |
| 11:15 | H38 | O 6.1 | A nanometer-sized femtosecond electron source •Christoph Lienau, Claus Ropers, Daniel Solli, Claus Peter Schulz, Thomas Elsaesser |
| 11:45 | H38 | O 6.2 | Mastering optical near fields in nanostructured materials •Javier Garcia de Abajo, Tobias Brixner, Walter Pfeiffer, Christian Spindler |
| 12:15 | H38 | O 6.3 | Near-field second harmonic generation from single gold nanoparticles •Giulio Cerullo, Michele Celebrano, Margherita Zavelani-Rossi, Paolo Biagioni, Marco Finazzi, Lamberto Duò |
| 14:15 | H38 | O 13.1 | Nanoscale optical spectroscopy based on local field enhancement •Achim Hartschuh, Huihong Qian, Tobias Gokus, Neil Anderson, Lukas Novotny |
| 14:45 | H38 | O 13.2 | Coherent, Nonlinear, and Ultrafast Nanoplasmonics •Mark Stockman |
| 15:15 | H38 | O 13.3 | Attosecond resolved photoemission from metal surfaces •Ulrich Heinzmann |

Sessions

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|-------|----------|------|--|
| 08:30 | H1 | O 1 | Plenary Talk Louie |
| 09:30 | H36 | O 2 | Invited Talk Grioni |
| 10:15 | H36 | O 3 | Invited Talk Richardson (FV: DS+O) |
| 09:30 | H1 | O 4 | Symposium: Spins in Semiconductors (FV: HL+MA+O+TT) |
| 11:15 | H36 | O 5 | Nanostructures at Surfaces I (Wires, Tubes) |
| 11:15 | H38 | O 6 | Symposium: Ultrafast Nanooptics I |
| 11:15 | H39 | O 7 | Metal Substrates: Adsorption I |
| 11:15 | H41 | O 8 | Methods: Scanning Probe Techniques I |
| 11:15 | H42 | O 9 | Oxides and Insulators: Adsorption I |
| 13:00 | H1 | O 10 | Special Talk Hirsch |
| 13:30 | H1 | O 11 | Special Talk Ball |
| 14:15 | H36 | O 12 | Nanostructures at Surfaces II (Wires, Tubes) |
| 14:15 | H38 | O 13 | Symposium: Ultrafast Nanooptics II |
| 14:15 | H39 | O 14 | Metal Substrates: Epitaxy and Growth |
| 14:15 | H41 | O 15 | Methods: Scanning Probe Techniques II |
| 14:15 | H42 | O 16 | Organic, Polymeric, and Biomolecular Films I |
| 17:30 | Poster C | O 17 | Poster Session I (Nanostructures at Surfaces; Metal Substrates: Epitaxy and Growth; Methods: Scanning Probe Techniques; Phase Transitions) |
| 18:00 | H1 | O 18 | Plenary Talk Pätzold |

Invited Talks

| | | | |
|-------|------------|--------|---|
| 09:30 | Ch 12.0.16 | ST 1.1 | Multimodale Medizinische Bildgebung: Integration von Funktion und Morphologie •Stephan Nekolla |
| 10:30 | Ch 12.0.16 | ST 1.4 | Ultraschallanwendungen in der Medizin •Georg Schmitz |
| 12:30 | Ch 12.0.16 | ST 1.9 | Nuklearmedizinische Kleintierbildgebung •Klaus Schäfers |

Monday, March 26, 2007

ST

Sessions

| | | | |
|-------|------------|------|---------------------------|
| 09:30 | Ch 12.o.16 | ST 1 | Medizinische Bildgebung I |
| 12:30 | Poster D | ST 2 | Medizinphysik-Poster |
| 14:00 | Ch 12.o.16 | ST 3 | MEDIPIX-Detektoren |
| 16:45 | Ch 12.o.16 | ST 4 | Neuartige Röntgenröhren |

TT

Invited Talks

| | | | |
|-------|-----|--------|---|
| 09:30 | H20 | TT 3.1 | Experimental investigation of superconducting flux qubits •Evgeni Ilichev |
| 14:00 | H18 | TT 5.1 | Time-dependent density-functional theory: the framework, applications and recent developments •Lucia Reining |
| 16:00 | H18 | TT 5.7 | Electronic Correlations in Electron-Transfer Systems •Ralf Bulla, Sabine Tornow, Frithjof Anders |
| 17:00 | H20 | TT 9.4 | Crossed Andreev Reflection in Superconductor-Ferromagnet Hybrid Structures •Detlef Beckmann, Jakob Brauer, Dagmar Rall, Hilbert v. Löhneysen |

Sessions

| | | | |
|-------|----------|------|---|
| 09:30 | H18 | TT 1 | Superconductivity - Fabrication and Characterization |
| 09:30 | H19 | TT 2 | Quantum-Critical Phenomena |
| 09:30 | H20 | TT 3 | Quantum Coherence and Quantum Information Systems I |
| 11:30 | H18 | TT 4 | Solids at Low Temperature - Materials |
| 14:00 | H18 | TT 5 | Correlated Electrons - (General) Theory |
| 14:00 | H19 | TT 6 | Nanoelectronics III - Molecular Electronics |
| 14:00 | H20 | TT 7 | Quantum Coherence and Quantum Information Systems II |
| 14:00 | Poster A | TT 8 | Superconductivity - Poster Session |
| 16:15 | H20 | TT 9 | Superconductivity - Heterostructures, Andreev Scattering, Proximity Effect, Coexistence |

UP

Invited Talks

| | | | |
|-------|-----|--------|---|
| 11:30 | H48 | UP 4.1 | Ocean mixing: why it's important and how it's measured by tracer release experiments •Andrew Watson |
| 14:00 | H48 | UP 6.1 | Photoenhanced conversion of NO ₂ on dust •Christian George, Marieme Ndour, Barbara D'Anna, Oumar Ka, Yves Balkanski, Jörg Kleffmann, Konrad Stemmler, Markus Ammann |
| 16:00 | H48 | UP 6.6 | Heterogeneous conversion of nitrogen oxides: Sources of nitrous acid (HONO) •Jörg Kleffmann |

Sessions

| | | | |
|-------|------------|------|--|
| 09:30 | H48 | UP 1 | Atmosphäre und Klima I |
| 09:30 | Phy 5.o.20 | UP 2 | Umweltradioaktivität |
| 10:15 | Phy 5.o.20 | UP 3 | Atmosphärische Spurengase und Aerosole: Laboruntersuchungen |
| 11:30 | H48 | UP 4 | Ozeanographie, Hydro- und Kryosphäre |
| 12:00 | Phy 5.o.20 | UP 5 | Atmosphäre und Klima II |
| 14:00 | H48 | UP 6 | Heterogene Prozesse in der Atmosphäre - gemeinsam mit dem Arbeitskreis Atmosphärenchemie (AKAC) der GDCh |

Monday, March 26, 2007

VA

| Invited Talks | | | |
|----------------------|-----|--------|---|
| 09:30 | H9 | VA 1.1 | KATRIN: Fertigung und erste Vakuumtests des UHV-Hauptspektrometers •Joachim Wolf |
| 11:15 | H9 | VA 2.1 | Outgassing behaviour, morphology and surface composition of vacuum fired stainless steel •Manfred Leisch |
| 14:00 | H9 | VA 3.1 | Feldemittierende Nanostrukturen für neuartige Flachbildschirme und Röntgenröhren •Günter Müller |
| Sessions | | | |
| 09:30 | H9 | VA 1 | Large instruments for science |
| 11:15 | H9 | VA 2 | Desorption mechanisms and vacuum generation |
| 14:00 | H9 | VA 3 | Vacuumnanoelectronics: fabrication, properties and applications |
| 16:45 | H47 | | Annual General Meeting of the section Vacuum Science and Technology |

AKC

| Invited Talks | | | |
|----------------------|----|---------|--|
| 14:00 | H7 | AKC 1.1 | Wissenschaft und Öffentlichkeit im Dialog •Marc-Denis Weitze |
| 16:15 | H7 | AKC 2.1 | HarmoS Naturwissenschaften - Bildungsstandards für die Schweiz •Susanne Metzger |
| Sessions | | | |
| 14:00 | H7 | AKC 1 | Chancengleichheit I |
| 16:15 | H7 | AKC 2 | Chancengleichheit II |

AKE

| Invited Talks | | | |
|----------------------|-----|---------|---|
| 14:00 | H45 | AKE 1.1 | The Zero Emission Fossil Fuel Power Plant - from Vision to Reality •Lars Strömberg |
| 16:00 | H45 | AKE 2.1 | Human Induced Climate Change: The IPCC Fourth Assessment •Bill Hare |
| Sessions | | | |
| 14:00 | H45 | AKE 1 | Carbon Capture and Storage |
| 16:00 | H45 | AKE 2 | Climate Change I -- The Fourth IPCC Report |
| 16:45 | H45 | AKE 3 | Solar and Hydrogen Technology, Fuel Cells |

AKSOE

| Invited Talk | | | |
|---------------------|----------|-----------|---|
| 09:30 | H8 | AKSOE 1.1 | Dynamics of language competition: biligualism and social structure •Victor Eguiluz |
| Sessions | | | |
| 09:30 | H8 | AKSOE 1 | Dynamics of Groups and Organizations I |
| 10:15 | H8 | AKSOE 2 | Financial Markets and Risk Management I |
| 14:00 | H8 | AKSOE 3 | Dynamics of Groups and Organizations II |
| 16:30 | Poster D | AKSOE 4 | Poster Session (posters are expected to be displayed the full day (9:00-18:00)) |

Monday, March 26, 2007

AKSOE

18:00 H8 Annual General Meeting of the Working Group Physics of Socio-Economic Systems

SYOE

Sessions

14:30 H32 SYOE 1 Organic Interfaces (abstracts see DS 5.1-5)
16:00 H32 SYOE 2 Organic Photovoltaics (abstracts see DS 6.1-7)
18:00 H32 SYOE 3 Organic Film Aging (abstracts see DS 7.1-4)

SYSE

Invited Talks

14:30 H1 SYSE 1.1 Wavy and Buckled Nanoribbons and Nanotubes: Mechanics and Applications
•John Rogers

16:15 H1 SYSE 2.1 Enhancing Ferroelectrics and Multiferroics using Strain
•D.G. Schlom, M.D. Biegalski, A. Soukiassian, J.H. Haeni, J.H. Lee, R.W. Ulbricht, C.M. Brooks, Y. Jia, V. Vaithyanathan, W. Tian, X. Ke, D.A. Tenne, A.V. Rao, A. Kumar, L. Tian, A. Sharan, S. Choudhury, Y.L. Li, P. Schiffer, S. Trolier-McKinstry, X.X. Xi, V. Gopalan, L.Q. Chen, K.J. Choi, D.M. Kim, C.B. Eom, Y.B. Chen, H.P. Sun, X.Q. Pan, D.D. Fong, M.A. Zurbuchen, J.A. Eastman, P.H. Fuoss, S.K. Streiffer, P. Irvin, J. Levy, W. Chang, S.W. Kirchoefer, T. Heeg, J. Schubert, A. Bruchhausen, N.D. Lanzillotti-Kimura, A. Fainstein, R.S. Katiyar, A. Cantarero, M.E. Hawley, Q.X. Jia, C.J. Fennie, S.M. Nakhmanson, K.M. Rabe, A.K. Tagantsev, B. Velickov, R. Uecker, P. Reiche

17:00 H1 SYSE 2.3 Patterning ferroelectric nanostructures by epitaxial strain
•Ho Nyung Lee, Matthew Chisholm

17:30 H1 SYSE 2.4 Curl in Photonic Crystals Induced by Drying Stresses upon Sol-Gel Infiltration
•Vladimir Kitaev, Evangellos Vekris, Geoffrey Ozin

Sessions

14:30 H1 SYSE 1 Strain engineering in semiconductors
16:15 H1 SYSE 2 Strain engineering in ferroics and photonics

SYSS

Invited Talks

09:30 H1 SYSS 1.1 Generating and manipulating spins in semiconductors
•David Awschalom

10:00 H1 SYSS 1.2 Spin noise spectroscopy and spin dynamics in semiconductors
•Michael Oestreich, Michael Römer, Stefanie Döhrmann, Stefan Oertel, Daniel Hägele, Jens Hübner

10:20 H1 SYSS 1.3 Spin-orbit interaction in Si quantum wells
•Wolfgang Jantsch, Hans Malissa, Zbyslaw Wilamowski

10:40 H1 SYSS 1.4 Driven coherent oscillations of a single electron spin in a quantum dot
•Frank Koppens, Christo Buizert, Klaas-Jan Tielrooij, Ivo Vink, Katja Nowack, Tristan Meunier, Leo Kouwenhoven, Lieven Vandersypen

11:00 H1 SYSS 1.5 Electrical spin injection and detection in semiconductors
•Paul Crowell

Monday, March 26, 2007

SYSS

| | | | |
|-------|----|-----------|---|
| 11:20 | H1 | SYSS 1.6 | Spin Dependent Scattering in Ferromagnetic Semiconductor Heterostructures •Nitin Samarth |
| 11:40 | H1 | SYSS 1.7 | Tailoring ferromagnetism in bulk semiconductors and quantum dots •Igor Zutic |
| 12:00 | H1 | SYSS 1.8 | Tunnel Anisotropic Magneto Resistance - TAMR •Laurens Molenkamp |
| 12:20 | H1 | SYSS 1.9 | Electric field controlled spintronic effects based on spin-orbit coupling •Tomas Jungwirth |
| 12:40 | H1 | SYSS 1.10 | Zero-bias spin separation in semiconductor heterostructures •Sergey Ganichev |
| 09:30 | H1 | SYSS 1 | Session Spins in Semiconductors |

13:15 H33 Job market

17:30 Foyer Historic exhibition "Drawing for research: Nineteenth-Century Scientific Instruments and Apparatus in Heidelberg"

Tuesday, March 27, 2007

| | | | |
|-------|----|---------|---|
| 08:30 | H1 | PV VI | Plenary Talks Climate Change 2007: The Physical Science Basis •Peter Lemke |
| 17:00 | H1 | PV VIII | Islam and Science •Pervez Hoodbhoy |
| 13:00 | H1 | PV VII | Prize Talk From Microscopic Dynamics to Macroscopic Behavior •Joel L. Lebowitz (Max-Planck-Medal 2007) |
| 18:00 | H1 | PV IX | Special Talk Invisible Hands, Invaluable Assets •John Krige |

Tuesday, March 27, 2007

BP**Invited Talks**

- | | | | |
|-------|-----|---------|--|
| 09:30 | H43 | BP 9.1 | Single molecule recognition in regulatory systems •Robert Ros |
| 10:00 | H43 | BP 9.2 | Transcription by RNA Polymerase II •Stephan Grill, Eric Galburt, Martin Depken, Carlos Bustamante |
| 14:00 | H43 | BP 10.1 | Supercoils and their Removal •Nynke Dekker |
| 10:30 | H44 | BP 12.1 | The first micro seconds in the life of a nerve impulse •Fred Wolf |

Sessions

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|-------|----------|-------|--|
| 09:30 | H43 | BP 9 | Regulation and Signaling |
| 14:00 | H43 | BP 10 | DNA: supercoils, knots and melting |
| 16:00 | H43 | BP 11 | Micro- and Nanofluidics |
| 10:30 | H44 | BP 12 | Neuroscience |
| 12:30 | H44 | BP 13 | Photobiophysics |
| 14:30 | H44 | BP 14 | Chemotaxis |
| 15:15 | H44 | BP 15 | Biopolymer Solutions and Networks |
| 17:00 | Poster D | BP 16 | Poster Session I |
| 19:30 | H43 | | Annual General Meeting of the Section Biological Physics |

CPP**Invited Talks**

- | | | | |
|-------|-----|-----------|---|
| 09:30 | H37 | CPP 10.1 | Polymer dynamics: From Synthetic Polymers to Biopolymers •Dieter Richter |
| 11:15 | H37 | CPP 10.6 | Time-resolved small-angle neutron scattering •Roland May |
| 14:00 | H37 | CPP 11.1 | Surface sensitive neutron scattering •R. Steitz |
| 15:45 | H37 | CPP 11.6 | Coherent x-ray studies of polymer membrane fluctuations and colloidal dynamics near the glass transitions •Simon Mochrie |
| 17:15 | H37 | CPP 11.10 | Microbeam Synchrotron Radiation Scattering Experiments in Soft Condensed Matter •Christian Riekell |

Sessions

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|-------|-----|--------|--|
| 09:30 | H37 | CPP 10 | INTERNAL SYMPOSIUM Scattering Experiments I |
| 14:00 | H37 | CPP 11 | INTERNAL SYMPOSIUM Scattering Experiments II |
| 10:00 | H40 | CPP 12 | Polymer Physics III: Interfaces |
| 14:30 | H40 | CPP 13 | Polymer Physics IV: Thin Films |
| 10:00 | H47 | CPP 14 | Biological Systems |
| 14:30 | H47 | CPP 15 | Diffusion and Transport Processes |
| 17:00 | H47 | CPP 16 | Colloids and Nanoparticles III |

DD**Invited Talks**

- | | | | |
|-------|-----|---------|--|
| 09:45 | H31 | DD 13.1 | Experimentieren lehren bedeutet Verstehen lehren •Maike Tesch |
|-------|-----|---------|--|

Tuesday, March 27, 2007

DD

| | | | |
|-----------------|------------|---------|---|
| 15:45 | H31 | DD 20.1 | Das Gelbe vom Ei •Werner Gruber |
| Sessions | | | |
| 09:45 | H31 | DD 13 | Invited Talk 3 |
| 11:00 | M 101 | DD 14 | Lehreraus- und -fortbildung II (außerschulische Lernorte) |
| 11:00 | M 102 | DD 15 | Lehr-Lernforschung I |
| 11:00 | M 103 | DD 16 | Praktika II (neue Versuche) |
| 11:00 | M 104 | DD 17 | Astronomie |
| 11:00 | Phy 5.0.21 | DD 18 | Neue Konzepte V (Alltagstechnik) |
| 14:00 | H31 | DD 19 | Postersitzung |
| 15:45 | H31 | DD 20 | Invited Talk 4 |
| 17:00 | Phy 5.0.21 | | Annual General Meeting of the Section Didactic of Physics |

DF

| | | | |
|----------------------|-----|--------|--|
| Invited Talks | | | |
| 10:00 | H11 | DF 4.1 | Intrinsically Heterogeneous Ferroelectrics: Origins and Consequences •A. R. Bishop |
| 12:20 | H11 | DF 4.7 | Order - disorder versus displacive behaviour of ferroelectric perovskites •Robert Blinc |
| 14:30 | H11 | DF 7.1 | Nanosized ferroelectrics •Izabela Szafraniak |
| Sessions | | | |
| 10:00 | H11 | DF 4 | Internal Symposium "Order/Disorder versus/with Displacive Behaviour" |
| 10:00 | H23 | DF 5 | Glass I (joint session with DY) |
| 14:30 | H23 | DF 6 | Glass II (joint session with DY) |
| 14:30 | H11 | DF 7 | Dielectric and Ferroelectric Thin Films and Nanostructures I |

DS

| | | | |
|----------------------|-----|---------|--|
| Invited Talks | | | |
| 09:30 | H32 | DS 11.1 | Strained silicon for advanced nanotechnology •Michael Goryll, Dan Buca, Qing-Tai Zhao, Bernd Holländer, Siegfried Mantl, Roger Loo, Duy Nguyen, Manfred Reiche |
| 10:00 | H32 | DS 11.2 | Integration of functional epitaxial oxides into silicon: From high-K application to nanostructures •H. Jörg Osten |
| 10:30 | H32 | DS 11.3 | Rare Earth based amorphous ternary oxide layers as alternative gate dielectrics •Jürgen Schubert, Tassilo Heeg, Martin Roeckerath, Joao Marcelo Jordao Lopes, Uffe Littmark, Chao Zhao, Matty Caymax, Valerie Avanasiev, Lisa Edge, Yunfa Jia, Wei Tian, Darrell Schlom |
| 11:00 | H32 | DS 11.4 | Advanced SOI CMOS transistors for high performance microprocessors •Manfred Horstmann |
| 11:45 | H32 | DS 11.6 | Graphene: A new Electronic Material •Max Christian Lemme, Tim Echtermeyer, Matthias Baus, Heinrich Kurz |
| 12:15 | H32 | DS 11.7 | Electronic Transport in Carbon Nanotube FETs •Joachim Knoch |
| 14:30 | H34 | DS 12.1 | Surface Analytics with Monolayer Resolution using Ions •Pedro Grande, Agenor Hentz, Rafael Pezzi, Israel Baumvol, Gregor Schiwietz |

Tuesday, March 27, 2007

DS

Sessions

| | | | |
|-------|----------|-------|--|
| 09:30 | H32 | DS 11 | Symposium: New Materials for Nanoelectronics |
| 14:30 | H34 | DS 12 | Thin Film Analytics I |
| 15:15 | H34 | DS 13 | Thin Film Analytics II |
| 16:45 | H34 | DS 14 | Thin Film Analytics III |
| 15:00 | Poster B | DS 15 | Poster Session |
| 18:00 | H34 | | Annual General Meeting of the Section Thin Films |

DY

Invited Talks

| | | | |
|-------|----|---------|---|
| 09:30 | H2 | DY 11.1 | A single Josephson junction for atomic Bose-Einstein condensates: Dynamics and finite temperature effects •Markus Oberthaler |
| 12:30 | H2 | DY 14.6 | Instabilities and pattern formation in phase-separating fluids •Jürgen Vollmer |
| 14:00 | H2 | DY 15.1 | Unconventional types of phase transitions due to interplay of finite size and interfacial effects •Kurt Binder, Andrey Milchev, Marcus Mueller |
| 14:30 | H2 | DY 15.2 | Successes and limitations of current renormalization group approaches to the study of finite size effects •Hans Werner Diehl, Daniel Grüneberg |
| 15:00 | H2 | DY 15.3 | Thermodynamic Casimir Forces •Siegfried Dietrich |
| 15:45 | H2 | DY 15.4 | Diversity of critical behavior within a universality class •Volker Dohm |
| 16:15 | H2 | DY 15.5 | Spin Dynamics Simulations of Excitations and Critical Dynamics in a Heisenberg Antiferromagnet: Resolution of a controversy via finite size scaling •David P. Landau |

Sessions

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|-------|-----|-------|--|
| 09:30 | H2 | DY 11 | Superfluidity and Bose-Einstein condensation |
| 10:00 | H3 | DY 12 | Statistical physics (general) |
| 10:00 | H23 | DY 13 | Glass I (joint session with DF) |
| 11:15 | H2 | DY 14 | Fluid dynamics II |
| 14:00 | H2 | DY 15 | Internal Symposium: Finite size effects at phase transitions |
| 14:30 | H3 | DY 16 | Brownian motion and transport I |
| 14:30 | H23 | DY 17 | Glass II (joint session with DF) |
| 16:45 | H3 | DY 18 | Brownian motion and transport II |
| 17:00 | H2 | DY 19 | Finite size effects at phase transitions I (session accompanying the symposium of the same name) |

EP

Invited Talk

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|-------|-----|--------|--|
| 16:15 | H46 | EP 7.1 | Space Weather Monitoring by Ground and Space based GNSS Techniques •Norbert Jakowski, Christoph Mayer |
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Sessions

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|-------|-----|------|------|
| 15:00 | H46 | EP 6 | Erde |
|-------|-----|------|------|

Tuesday, March 27, 2007

EP

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|-------|-----|------|--|
| 16:15 | H46 | EP 7 | Solar-Terrestrische Beziehungen |
| 13:30 | H46 | | Annual General Meeting of the Section Extraterrestrial Physics |

GP

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|----------------------|-----|--------|--|
| Invited Talks | | | |
| 09:00 | H35 | GP 5.1 | Handwerksgelehrte •Otto Sibum |
| 14:00 | H35 | GP 6.1 | Unsichtbare Hände in Grosslabors der Kern- und Teilchenphysik Hartwig Spitzer, •Johann Bienlein |
| Sessions | | | |
| 09:00 | H35 | GP 5 | Handwerkergelehrte und Instrumentenmacher |
| 14:00 | H35 | GP 6 | Unsichtbare Hände im 20. Jahrhundert |
| 18:00 | H1 | GP 7 | Vortrag Krige |

HL

| | | | |
|----------------------|-----|---------|--|
| Invited Talks | | | |
| 09:15 | H15 | HL 16.1 | Why has doping been difficult in colloidal semiconductor quantum dots? •David J. Norris |
| 10:00 | H15 | HL 17.1 | Magnetic anisotropy and magnetization switching in ferromagnetic GaMnAs •Wolfgang Limmer |
| 10:45 | H15 | HL 20.1 | Polariton Condensation in CdTe Microcavities: interaction and coherence J. Kasprzak, M. Richard, S. Kundermann, A. Baas, P. Jeambrun, J. Keeling, F. M. Marchetti, M. H. Szymanska, R. André, J. L. Staehli, P. B. Littlewood, B. Deveaud, •Daniel Le Si Dang |
| 11:15 | H15 | HL 20.2 | On the way to an excitonic Bose-Einstein condensate: New experiments in Cuprous Oxide. •Heinrich Stolz, Dietmar Fröhlich |
| 11:45 | H15 | HL 20.3 | Challenges on the way towards Bose-Einstein condensation of excitons •Roland Zimmermann |
| 12:15 | H15 | HL 20.4 | Signatures of excitonic condensates in quantum Hall bilayers •Lars Tiemann, Rodney Wiersma, Sjoerd Lok, Werner Dietsche, Klaus v. Klitzing, Koji Muraki |
| Sessions | | | |
| 09:15 | H15 | HL 16 | Invited Talk Norris |
| 10:00 | H15 | HL 17 | Invited Talk Limmer |
| 10:45 | H13 | HL 18 | Photonic crystals I |
| 10:45 | H14 | HL 19 | Spin controlled transport I |
| 10:45 | H15 | HL 20 | Symposium Bose-Einstein Kondensation in Halbleitern |
| 11:00 | H17 | HL 21 | III-V semiconductors II |
| 14:00 | H13 | HL 22 | Photonic crystals II |
| 14:00 | H14 | HL 23 | Spin controlled transport II |
| 14:00 | H15 | HL 24 | Quantum dots and wires: Transport properties II |
| 14:00 | H17 | HL 25 | Quantum dots and wires: Optical properties II |
| 16:00 | H14 | HL 26 | Interfaces/surfaces |

Tuesday, March 27, 2007

MA

| | | | Invited Talks |
|-------|----------|---------|--|
| 14:00 | H10 | MA 14.1 | Controlling magnetism and self-organization of adatoms on surfaces by using quantum interferences •Patrick Bruno, Valeri Stepanyuk, Nikolay Negulyaev, Larissa Niebergall |
| 14:30 | H10 | MA 14.2 | XMCD in TM Oxides: Are there hidden orbital moments in magnetite? •Eberhard Goering |
| | | | Sessions |
| 10:15 | H10 | MA 11 | Magnetic Thin Films I |
| 10:15 | H22 | MA 12 | Spindependent Transport I |
| 10:15 | H5 | MA 13 | Spinstructures and magnetic Phase Transitions |
| 14:00 | H10 | MA 14 | Invited Talks (joint session with O) Bruno / Göring |
| 15:00 | Poster A | MA 15 | Poster |

MM

| | | | Invited Talks |
|-------|----------|---------|---|
| 09:30 | H16 | MM 13.1 | Computational Materials •Sidney Yip |
| 10:15 | H16 | MM 14.1 | Micromechanics inside the SEM •Benedikt Moser |
| 14:00 | H16 | MM 19.1 | Development of Platinum-Based Superalloys by Optimization of Microstructure •Uwe Glatzel |
| | | | Sessions |
| 09:30 | H16 | MM 13 | HV Yip |
| 10:15 | H16 | MM 14 | SYM Micro- and Nanomechanics II |
| 10:15 | H4 | MM 15 | Phase transitions I |
| 11:45 | H4 | MM 16 | Phase transitions II |
| 10:15 | H6 | MM 17 | Hydrogen in materials |
| 11:45 | H6 | MM 18 | Electronic properties I |
| 14:00 | H16 | MM 19 | HV Glatzel |
| 14:45 | Poster C | MM 20 | Poster session |
| 18:00 | H47 | | Annual General Meeting of the Section Metal and Material Physics |

O

| | | | Invited Talks |
|-------|-----|--------|--|
| 09:30 | H36 | O 20.1 | Spin-Coupling in Engineered Atomic Structures •Cyrus Hirjibehedin, Christopher Lutz, Andreas Heinrich |
| 10:15 | H36 | O 21.1 | Recent advances in simulating high-resolution scanning tunnelling microscopy and spectroscopy •Werner Hofer |
| 14:00 | H10 | O 28.1 | Controlling magnetism and self-organization of adatoms on surfaces by using quantum interferences •Patrick Bruno, Valeri Stepanyuk, Nikolay Negulyaev, Larissa Niebergall |
| 14:45 | H36 | O 29.1 | Many-body interactions in clean and alkali-adsorbed graphene •E. Rotenberg, A. Bostwick, T. Ohta, J. McChesney, Th. Seyller, K. Horn |
| | | | Sessions |
| 08:30 | H1 | O 19 | Plenary Talk Lemke |
| 09:30 | H36 | O 20 | Invited Talk Hirjibehedin (FV: MA+O) |

Tuesday, March 27, 2007

O

| | | | |
|-------|-----|------|--|
| 10:15 | H36 | O 21 | Invited Talk Hofer |
| 11:15 | H36 | O 22 | Surface or Interface Magnetism |
| 11:15 | H38 | O 23 | Symposium: Ultrafast Nanooptics III |
| 11:15 | H39 | O 24 | Semiconductor Substrates: Epitaxy and Growth |
| 11:15 | H41 | O 25 | Phase Transitions |
| 11:15 | H42 | O 26 | Organic, Polymeric, and Biomolecular Films II |
| 13:00 | H1 | O 27 | Prize Talk Lebowitz (Max Planck Medal) |
| 14:00 | H10 | O 28 | Invited Talk Bruno (FV: MA+O) |
| 14:45 | H36 | O 29 | Invited Talk Rotenberg |
| 15:45 | H36 | O 30 | Nanostructures at Surfaces III (Dots, Particles, Clusters) |
| 15:45 | H38 | O 31 | Surface Chemical Reactions and Heterogeneous Catalysis I |
| 15:45 | H39 | O 32 | Semiconductor Substrates |
| 15:45 | H41 | O 33 | Oxides and Insulators: Epitaxy and Growth |
| 15:45 | H42 | O 34 | Methods: Atomic and Electronic Structure I |

ST

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|-------|------------|--------|--|
| | | | Invited Talks |
| 11:30 | Ch 12.0.16 | ST 7.1 | Physikalisch-mathematisch motivierte Bildverbesserung in der Medizin •Christoph Hoeschen |
| 15:45 | Ch 12.0.16 | ST 9.1 | Computer simulation of the dynamics of ion induced radiation damage in cells •Werner Friedland, Herwig Paretzke |
| | | | Sessions |
| 09:30 | Ch 12.0.16 | ST 5 | Strahlendetektoren |
| 10:00 | Ch 12.0.16 | ST 6 | Medizinphysik |
| 11:30 | Ch 12.0.16 | ST 7 | Medizinische Bildgebung II |
| 14:00 | Ch 12.0.16 | ST 8 | Strahlentherapie |
| 15:45 | Ch 12.0.16 | ST 9 | Strahlenbiophysik |
| 17:30 | CH 12.0.16 | | Annual General Meeting of the Section Radiation- and Medical Physics |

TT

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|-------|-----|---------|--|
| | | | Invited Talks |
| 09:30 | H20 | TT 12.1 | Improvement of the Critical Current Density in YBCO Coated Conductors •Bernhard Holzapfel |
| 14:00 | H18 | TT 13.1 | Angle-resolved photoemission studies on Na_xCoO_2 •Hong Ding |
| 14:30 | H18 | TT 13.2 | Phase diagram and in-plane spin fluctuation in the novel superconducting system $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$ •Kazuyoshi Yoshimura |
| 15:00 | H19 | TT 14.5 | Topological phases in condensed matter •Roderich Moessner |
| 15:30 | H20 | TT 15.6 | Fractional flux quanta in Josephson junctions •Edward Goldobin, Kai Buckenmaier, Tobias Gaber, Matthias Kemmler, Martin Weides, Judith Pfeiffer, Hermann Kohlstedt, Dieter Koelle, Reinhold Kleiner, Michael Siegel |
| 16:00 | H20 | TT 15.7 | SQUID Technology for Geophysical Exploration •Hans-Georg Meyer, Ronny Stolz, Andreas Chwala, Sven Linzen, Volkmar Schultze |

Tuesday, March 27, 2007

TT

Sessions

| | | | |
|-------|-----|-------|---|
| 09:30 | H18 | TT 10 | Superconductivity - Properties, Electronic Structure, Order Parameter |
| 09:30 | H19 | TT 11 | Quantum Impurities, Kondo Physics |
| 09:30 | H20 | TT 12 | Symposium "Coated HTS Conductors" |
| 14:00 | H18 | TT 13 | Symposium "Superconductivity and Magnetism in Lamellar Cobaltates" |
| 14:00 | H19 | TT 14 | Spin Systems and Itinerant Magnets |
| 14:00 | H20 | TT 15 | Superconductivity - Tunneling, Josephson Junctions, SQUIDs |
| 18:00 | H20 | TT 16 | Symposium "50 Years BCS Theory" |

UP

Sessions

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|-------|----------|-------|--|
| 14:00 | Poster C | UP 7 | Poster: Atmosphäre und Klima |
| 14:00 | Poster C | UP 8 | Poster: Atmosphäre und Aerosole: Datenauswertung und Modellierung |
| 14:00 | Poster C | UP 9 | Poster: Atmosphärische Spurengase und Aerosole: Instrumentelles |
| 14:00 | Poster C | UP 10 | Poster: Atmosphärische Spurengase und Aerosole: Laboruntersuchungen |
| 14:00 | Poster C | UP 11 | Poster: Ozeanographie, Hydro- und Kryosphäre |
| 14:00 | Poster C | UP 12 | Poster: Neuartige Messverfahren der Umweltphysik |
| 14:00 | Poster C | UP 13 | Poster: Boden- und Agrarphysik |
| 14:00 | Poster C | UP 14 | Poster: Heterogene Prozesse in der Atmosphäre - gemeinsam mit dem Arbeitskreis Atmosphärenchemie (AKAC) der GDCh |
| 15:00 | H48 | UP 15 | Atmosphäre und Klima III |
| 16:15 | H48 | UP 16 | Atmosphärische Spurengase und Aerosole: Instrumentelles |

AKE

Invited Talks

| | | | |
|-------|-----|---------|--|
| 14:00 | H45 | AKE 4.1 | Ökonomische Bewertungen der Klimawandel-Folgen •Reiner Kümmel |
| 14:45 | H45 | AKE 5.1 | An Energy Policy for Europe •Jean-Claude Schwartz |
| 16:00 | H45 | AKE 6.1 | Reaktorkonzepte der vierten Generation •Thomas Schulenberg |
| 16:45 | H45 | AKE 7.1 | Fusion as a Future Energy Source •David J. Ward |

Sessions

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|-------|-----|-------|--|
| 14:00 | H45 | AKE 4 | Climate Change II -- An Economical Assessment (Stern-Report) |
| 14:45 | H45 | AKE 5 | European Energy Policy |
| 16:00 | H45 | AKE 6 | Generation IV Nuclear Reactor Concepts |
| 16:45 | H45 | AKE 7 | Fusion as a Future Energy Source |

AKI

Invited Talks

| | | | |
|-------|-----|---------|--|
| 10:00 | ZH1 | AKI 1.1 | Open Access, and what physics has to show us •Alma Swan |
| 10:45 | ZH1 | AKI 1.2 | Open Access Publishing and the Role of New Journal of Physics •Eberhard Bodenschatz |

Tuesday, March 27, 2007

AKI

Sessions

| | | | |
|-------|-----|-------|---|
| 10:00 | ZH1 | AKI 1 | Open Access |
| 14:00 | ZH1 | AKI 2 | Informationssysteme und Portale |
| 16:00 | ZH1 | | Annual General Meeting of the Working Group Information |

AKSOE

Invited Talks

| | | | |
|-------|-----|-----------|--|
| 09:30 | H8 | AKSOE 6.1 | Sociophysics of Markets •Jörg Reichardt |
| 16:00 | H10 | AKSOE 9.1 | Statistical Mechanics of socio-economic systems •Matteo Marsili |

Sessions

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|-------|-----|---------|--|
| 09:30 | H8 | AKSOE 6 | Dynamics of Groups and Organizations III |
| 10:15 | H8 | AKSOE 7 | Economic Models and Evolutionary Game Theory I |
| 14:00 | H8 | AKSOE 8 | Economic Models and Evolutionary Game Theory II |
| 16:00 | H10 | AKSOE 9 | Award Ceremony Young Scientist Award for Socio- and Econophysics |

SYEE

Invited Talks

| | | | |
|-------|-----|----------|--|
| 09:30 | H46 | SYEE 1.1 | Cosmic Rays, Clouds and Climate •Henrik Svensmark |
| 10:15 | H46 | SYEE 1.2 | The Astronomical Theory of Palaeoclimates •Michel Crucifix |
| 11:30 | H46 | SYEE 1.3 | Effects of the 11-Year Solar Cycle on the Atmosphere from the Surface to the Lower Thermosphere •Marco A. Giorgetta, H. Schmidt, J. Kieser, G.P. Brasseur |
| 12:15 | H46 | SYEE 1.4 | Climate Change and the Role of Photovoltaics in the Energy Mix •Eicke R. Weber |

Session

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|-------|-----|--------|--|
| 09:30 | H46 | SYEE 1 | Symposium: Energy and Extraterrestrial Influences on the Climate |
|-------|-----|--------|--|

SYOE

Invited Talks

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|-------|-----|----------|--|
| 09:30 | H1 | SYOE 4.1 | Vapor and Solution Deposited Small Molecule Organic Thin Film Transistors •Thomas Jackson |
| 11:15 | H1 | SYOE 5.1 | Organic electronic devices and their applications •Paul Heremans |
| 14:30 | H32 | SYOE 6.1 | Theory of polymer devices: OFETs and OLEDs •Reinder Coehoorn |
| 16:30 | H32 | SYOE 7.1 | Electronic spectrum and spin states of a single organic molecule •Herre van der Zant |

Sessions

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|-------|-----|--------|---------------------------------|
| 09:30 | H1 | SYOE 4 | Organic Transistors |
| 11:15 | H1 | SYOE 5 | Organic Devices |
| 14:30 | H32 | SYOE 6 | Transport in Organics Materials |

Tuesday, March 27, 2007

SYOE

16:30 H32 SYOE 7 Single Molecule Contacts
18:00 Poster B SYOE 8 Poster Session SYOE

13:15 H33 Job market

9:00-
17:00 Foyer Exhibition of scientific instruments and literature

Wednesday, March 28, 2007

| | | | |
|-------|----|-------|--|
| 08:30 | H1 | PV X | Plenary Talks Quantum dot spin manipulation •Atac Imamoglu |
| 09:15 | H1 | PV XI | Magnetic Nanostructures in the Lateral and Perpendicular Direction •Hartmut Zabel |

| | | |
|-------|--------------|---|
| 10:30 | H1 (Audimax) | Ceremonial Act <i>Musical Introduction</i> Opening by the Local Organizer <i>Prof. Dr. Dieter Weiss, University of Regensburg</i> Welcome Address by the Rector of the University of Regensburg <i>Prof. Dr. Alf Zimmer</i> Welcome Address by the Mayor of Regensburg <i>Gerhard Weber</i> Speech by the President of the Deutsche Physikalische Gesellschaft e.V. <i>Prof. Dr. Eberhard Umbach, University of Würzburg</i> Speech by the Bavarian State Minister of Science, Research and the Arts <i>Dr. Thomas Goppel, Bavarian State Ministry, Munich</i> <i>Music</i> Awards Ceremony Prizes of the Deutsche Physikalische Gesellschaft 2007 Max-Planck-Medal to <i>Prof. Dr. Joel L. Lebowitz, Rutgers, The State University of New Jersey, USA</i> Stern-Gerlach-Medal to <i>Prof. Dr. Peter Grünberg, Forschungszentrum Jülich</i> Walter-Schottky-Prize to <i>Prof. Dr. Jonathan J. Finley, Technical University of Munich</i> Prize of the Deutsche Vakuum-Gesellschaft Gaede-Prize to <i>Dr. Armin Dadgar, University of Magdeburg</i> <i>Music</i> |
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Wednesday, March 28, 2007

BP

Sessions

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|-------|-----|-------|---|
| 14:30 | H1 | BP 17 | Symposium Nonlinear and Anomalous Transport in Complex Systems (SYNF) |
| 14:00 | H43 | BP 18 | Functionalized Nanoparticles |
| 15:30 | H43 | BP 19 | Biosensors and Biofunctionalized Systems |
| 17:30 | H43 | BP 20 | Novel Methods |
| 18:15 | H43 | BP 21 | High-Throughput Data and their Analysis |

CPP

Invited Talk

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|-------|-----|----------|--|
| 14:00 | H37 | CPP 17.1 | Liquid distribution in a granular pile Mario Scheel, Martin Brinkmann, •Stephan Herminghaus, Ralf Seemann |
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Sessions

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|-------|----------|--------|--|
| 14:00 | H37 | CPP 17 | Micro and Nano Fluidics I: Structured Substrates |
| 14:30 | H40 | CPP 18 | Light-Induced Phenomena |
| 16:00 | Poster B | CPP 19 | POSTER: Micro and Nano Fluidics |
| 16:00 | Poster B | CPP 20 | POSTER: Biological Systems + New Materials |
| 16:00 | Poster B | CPP 21 | POSTER: Dynamics and Diffusion |
| 16:00 | Poster B | CPP 22 | POSTER: INTERNAL SYMPOSIUM Optical Spectroscopy |
| 16:00 | Poster B | CPP 23 | POSTER: JOINT SYMPOSIUM Polyelectrolytes |

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|-------|-----|--|--|
| 18:30 | H37 | | Annual General Meeting of the Section Chemical and Polymer Physics |
|-------|-----|--|--|

DD

Invited Talks

| | | | |
|-------|-----|---------|---|
| 15:45 | H31 | DD 27.1 | Physikunterricht unter dem Aspekt Geschlecht •Helga Stadler |
| 17:00 | H31 | DD 28.1 | Interferometrie mit massiven Molekülen: Von der Schulphysik zur aktuellen Quantenforschung •Markus Arndt |

Sessions

| | | | |
|-------|------------|-------|--|
| 14:00 | M 101 | DD 22 | Lehreraus- und -fortbildung III |
| 14:00 | M 102 | DD 23 | Lehr-Lernforschung II (Veranschaulichung) |
| 14:00 | M 103 | DD 24 | Sonstiges II (Schülerlabore) |
| 14:00 | M 104 | DD 25 | Anregungen aus dem Unterricht für den Unterricht |
| 14:00 | Phy 5.1.01 | DD 26 | Posterworkshop Multimedia |
| 15:45 | H31 | DD 27 | Invited Talk 5 |
| 17:00 | H31 | DD 28 | Invited Talk 6 |

DF

Invited Talk

| | | | |
|-------|-----|--------|--|
| 14:30 | H11 | DF 8.1 | Piezoelectricity and pyroelectricity in amorphous perovskite thin films •Alexander K. Tagantsev, Vera Lyahovitsky, David Ehre, Ellen Wachtel, Sidney R. Cohen, Konstantin Gartsman, Igor Lubomirsky |
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Session

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| 14:30 | H11 | DF 8 | Dielectric and Ferroelectric Thin Films and Nanostructures II |
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| 17:30 | H11 | | Annual General Meeting of the Section Dielectric Materials |
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Wednesday, March 28, 2007

DS

Invited Talks

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|-------|-----|---------|---|
| 15:00 | H34 | DS 18.1 | Analysis of protein layer structure using real-time ellipsometry •Hans Arwin |
| 15:30 | H34 | DS 18.2 | Optical Spectroscopy with high Spatial Resolution •Wolfgang Richter, Eugen Speiser, Benjamin Buick, Silvano Del Gobbo |
| 16:00 | H34 | DS 18.3 | Surface enhanced Raman spectroscopy as a probe for studying metal/organic interfaces •Georgeta Salvan, Dietrich Zahn |
| 16:30 | H34 | DS 18.4 | In-situ monitoring of stress evolution in growing group-III-nitride layers •Alois Krost, Armin Dadgar, Rainer Clos, Gunther Straßburger, Fabian Schulze |
| 17:15 | H34 | DS 19.1 | Optical in-situ diagnostics of device growth in MOVPE •Martin Zorn, Frank Brunner, Thomas Zettler, Markus Weyers |
| 17:45 | H34 | DS 19.2 | In-situ investigations of electronic and structural properties of Si surfaces during electrochemical surface functionalization •Jörg Rappich, Florent Yang, Katy Roodenko, Aleix Güell, Carl Matthias Intelmann, Thomas Dittrich, Karsten Hinrichs |
| 18:15 | H34 | DS 19.3 | Water at model membranes: structure, dynamics and biomolecular sensing •Mischa Bonn |

Sessions

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|-------|-----|-------|--|
| 14:30 | H32 | DS 16 | Organic Light Emitting Diodes (SYOE 9) |
| 16:45 | H32 | DS 17 | Contact Properties (SYOE 10) |
| 15:00 | H34 | DS 18 | Symposium: In situ Optics I |
| 17:15 | H34 | DS 19 | Symposium: In situ Optics II |

DY

Invited Talk

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|-------|----|---------|--|
| 14:00 | H2 | DY 20.1 | Semiclassical approach to universality in quantum chaos Stefan Heusler, •Sebastian Müller, Alexander Altland, Petr Braun, Fritz Haake |
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Sessions

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|-------|----------|-------|--|
| 14:00 | H2 | DY 20 | Quantum chaos I |
| 14:00 | H3 | DY 21 | Finite size effects at phase transitions II (session accompanying the symposium of the same name) |
| 15:45 | H2 | DY 22 | Granular matter / contact dynamics I |
| 15:45 | H3 | DY 23 | Finite size effects at phase transitions III (session accompanying the symposium of the same name) |
| 16:00 | Poster D | DY 24 | Poster I |

EP

Sessions

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|-------|-----|-------|--|
| 14:00 | H46 | EP 8 | Sonne |
| 16:30 | H46 | EP 9 | Internationales Heliophysikalisches Jahr |
| 18:00 | H46 | EP 10 | Poster |

Wednesday, March 28, 2007

HL

Invited Talks

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|-------|-----|---------|---|
| 14:15 | H15 | HL 29.1 | Interaction of semiconductor laser dynamics with THz radiation •Martin Hofmann |
| 14:45 | H15 | HL 29.2 | Ultrafast THz Spectroscopy of Carrier Correlations in Complex Materials •Robert A. Kaindl |
| 15:15 | H15 | HL 29.3 | Interaction of THz Radiation with Semiconductor Nanostructures: Microscopic Theory •Stephan Koch, Mackillo Kira |
| 15:45 | H15 | HL 29.4 | Nonlinear terahertz and midinfrared response of n-type GaAs •Michael Woerner, Peter Gaal, Wilhelm Kühn, Klaus Reimann, Thomas Elsaesser, Rudolph Hey, Klaus Ploog |
| 16:15 | H15 | HL 29.5 | Terahertz near-field microscopy •Roland Kersting, Federico Buerstgens, Gyu Cheon Cho |

Sessions

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|-------|-----|-------|--|
| 14:15 | H13 | HL 27 | II-VI semiconductors |
| 14:15 | H14 | HL 28 | Optical properties |
| 14:15 | H15 | HL 29 | Symposium THz interactions |
| 14:15 | H17 | HL 30 | Hybrid systems |
| 14:45 | H17 | HL 31 | Quantum dots and wires: Optical properties III |
| 16:30 | H14 | HL 32 | C/diamond |
| 16:45 | H15 | HL 33 | New materials |

MA

Invited Talks

- | | | | |
|-------|-----|---------|---|
| 14:00 | H10 | MA 16.1 | Out of plane steady-state precession for the 'perpendicular polarizer- planar free layer' spin torque oscillator •Ursula Ebels, Dimitri Houssameddine, Bertrand Delaet, Bernard Rodmacq, Ioana Firastrau, Fabienne Ponthenier, Magali Brunet, Christophe Thirion, Jean-Philippe Michel, Liliana Prejbeanu-Buda, Marie- Claire Cyrille, Bernard Dieny |
| 14:30 | H10 | MA 16.2 | Multifunctional Ni-Mn-based shape memory alloys •Lluis Manosa, Xavier Moya, Antoni Planes, Seda Aksoy, Thorsten Krenke, Mehmet Acet, Eberhard Wassermann |

Sessions

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|-------|-----|-------|------------------------------|
| 14:00 | H10 | MA 16 | Invited Talks Ebels / Manosa |
| 15:15 | H10 | MA 17 | Magnetic Shape Memory Alloys |
| 15:15 | H22 | MA 18 | Spindependent Transport II |
| 15:15 | H23 | MA 19 | Spin-Dynamics/Switching I |
| 15:15 | H5 | MA 20 | Magnetic Thin Films II |

MM

Invited Talk

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|-------|-----|---------|---|
| 14:00 | H16 | MM 21.1 | XRD residual stress analysis: one of the few advanced physical measuring techniques that have established themselves for routine application in industry •Wolfgang Nierlich, Jürgen Gegner |
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Sessions

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|-------|-----|-------|----------------------------|
| 14:00 | H16 | MM 21 | HV Nierlich |
| 14:45 | H16 | MM 22 | SYM Physics meets Industry |

Wednesday, March 28, 2007

MM

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|-------|----|-------|------------------------------|
| 14:45 | H4 | MM 23 | Nano structured materials I |
| 16:45 | H4 | MM 24 | Nano structured materials II |
| 14:45 | H6 | MM 25 | Electronic properties II |
| 16:45 | H6 | MM 26 | Electronic properties III |

O

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|-----------------|----------|--------|--|
| 14:00 | H36 | O 37.1 | Prize Talk Gallium-Nitride-on-Silicon: Mission possible! •Armin Dadgar (Gaede Prize) |
| 14:45 | H36 | O 38.1 | Invited Talk Fluctuations of nanoscale structures •Ellen Williams, Chenggang Tao, William Cullen, Timothy Stasevich, Theodore Einstein, Alexander Bondarchuk, Timothy Bole, Philip Rous |
| Sessions | | | |
| 08:30 | H1 | O 35 | Plenary Talk Imamoglu |
| 09:15 | H1 | O 36 | Plenary Talk Zabel |
| 14:00 | H36 | O 37 | Prize Talk Dadgar (Gaede Prize) |
| 14:45 | H36 | O 38 | Invited Talk Williams |
| 15:45 | H36 | O 39 | Nanostructures at Surfaces IV (Dots, Particles, Clusters, Arrays) |
| 15:45 | H38 | O 40 | Particles and Clusters I |
| 15:45 | H39 | O 41 | Metal Substrates: Adsorption II |
| 15:45 | H41 | O 42 | Methods: Scanning Probe Techniques III |
| 15:45 | H42 | O 43 | Oxides and Insulators: Adsorption II |
| 17:00 | Poster C | O 44 | Poster Session II (Semiconductors; Oxides and Insulators: Adsorption, Clean Surfaces, Epitaxy and Growth; Surface Chemical Reactions and Heterogeneous Catalysis; Surface or Interface Magnetism; Solid-Liquid Interfaces; Organic, Polymeric, Biomolecular Films; Particles and Clusters; Methods: Atomic and Electronic Structure; Time-resolved Spectroscopies) |

TT

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|-----------------|----------|---------|--|
| 14:00 | H20 | TT 19.1 | Invited Talks Superconducting detectors and mixers for submillimeter astrophysics •Jonas Zmuidzinas |
| 14:40 | H20 | TT 19.2 | Superconducting detectors for low-background far infrared space astronomy •Philip Mauskopf |
| Sessions | | | |
| 14:00 | H18 | TT 17 | Heavy Fermions |
| 14:00 | H19 | TT 18 | Nanoelectronics I - Quantum Dots, Wires, Point Contacts |
| 14:00 | H20 | TT 19 | Symposium ``Terahertz Detectors'' |
| 14:00 | Poster A | TT 20 | Correlated Electrons - Poster Session |
| 14:00 | Poster A | TT 21 | Solids at Low Temperature - Poster Session |

UP

| | | | |
|-------|-----|---------|---|
| 13:30 | H48 | UP 17.1 | Invited Talk GOME-2 on MetOp -- part of the EUMETSAT Polar System •Rosemary Munro, Michael Eisinger, Rüdiger Lang, Yakov Livschitz |
|-------|-----|---------|---|

Wednesday, March 28, 2007

UP

Sessions

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|-------|------------|-------|---|
| 13:30 | H48 | UP 17 | Satellitengestützte Messmethoden |
| 17:00 | H48 | UP 18 | Neuartige Messverfahren der Umweltphysik |
| 16:15 | Phy 5.0.20 | UP 19 | Atmosphäre und Aerosole: Datenauswertung und Modellierung |

VA

Prize Talk

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|-------|-----|-----|---|
| 14:00 | H36 | VA4 | Gallium-Nitride-on-Silicon: Mission possible! •Armin Dadgar (Gaede Prize 2007) |
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AKA

Invited Talks

| | | | |
|-------|-----|---------|---|
| 14:00 | H45 | AKA 1.1 | Das Nuklearprogramm Nordkoreas: Mythos und Realität •Götz Neuneck |
| 14:30 | H45 | AKA 1.2 | Das nordkoreanische Raketenprogramm: Mythos und Realität •Robert Schmucker |

Session

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|-------|-----|-------|----------------------------------|
| 14:00 | H45 | AKA 1 | Kernwaffentests und Verifikation |
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AKSOE

Session

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|-------|----|----------|--|
| 13:30 | H8 | AKSOE 10 | Social-, Information-, and Production Networks |
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SYNF

Invited Talks

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|-------|----|----------|--|
| 14:45 | H1 | SYNF 1.1 | Depolymerization of microtubules by kinesins •Jonathon Howard |
| 15:15 | H1 | SYNF 1.2 | Hydra Molecular Network Reaches Criticality at the Symmetry-Breaking Axis-Defining Moment Jordi Soriano, Cyril Colombo, •Albrecht Ott |
| 15:45 | H1 | SYNF 1.3 | Morphogen Transport in Epithelia •Tobias Bollenbach |
| 16:15 | H1 | SYNF 1.4 | Flocks, Herds and Schools - Physical Models of Animal Motion •Udo Erdmann |
| 16:45 | H1 | SYNF 1.5 | Nonlinear transport processes in large-scale ecological networks •Bernd Blasius |

Session

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|-------|----|--------|--|
| 14:30 | H1 | SYNF 1 | Nonlinear and Anomalous Transport in Complex Systems |
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SYOE

Invited Talk

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| 16:45 | H32 | SYOE 10.1 | Single grain contacts •Gregor Witte |
|-------|-----|-----------|--|

Sessions

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|-------|-----|---------|---|
| 14:30 | H32 | SYOE 9 | Organic Light Emitting Diodes (abstracts see DS 16.1-8) |
| 16:45 | H32 | SYOE 10 | Contact Properties (further abstracts see DS 17.2-7) |

Wednesday, March 28, 2007

SYPE

| | | | Session |
|----------------|-------------|--------|--|
| 16:00 | Poster B | SYPE 1 | Polyelectrolytes Poster |
| 13:00 | Senate hall | | Presentation of the book “Die DPG im Nationalsozialismus “Physiker zwischen Autonomie und Anpassung” |
| 13:15 | H33 | | Job market |
| 9:00- 17:00 | Foyer | | Exhibition of scientific instruments and literature |
| 18:00 | H1 | | Annual General Meeting of the Deutsche Physikalische Gesellschaft e.V. |
| 19:15 | H34 | | Annual General Meeting of the Deutsche Vakuumgesellschaft |
| 20:00 | H1 | PV XII | Evening Talk (Free Entrance) Adhesion to micro and nano structures: on geckoes, mini-mushrooms and smart surfaces •Eduard Arzt |

Thursday, March 29, 2007

| | | | |
|-------|----|---------|---|
| 08:30 | H1 | PV XIII | Prize Talks Optically probing charge and spin interactions in semiconductor quantum dots and molecules (Walter-Schottky-Prize 2007) •Jonathan J. Finley |
| 13:00 | H1 | PV XIV | Spin Transfer Phenomena in Layered Magnetic Structures •Peter Grünberg (Stern-Gerlach-Medal 2007) |

BP

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|-------|-----|---------|---|
| 09:30 | H43 | BP 22.1 | Invited Talks DNA-based molecular machines and synthetic biology •Friedrich Simmel |
| 11:30 | H43 | BP 22.7 | From biological towards artificial Molecular Machines •Thorsten Hugel |

Thursday, March 29, 2007

BP

| | | | |
|-----------------|----------|---------|--|
| 14:00 | H43 | BP 23.1 | The Physics of Neuronal Growth •Timo Betz, Daniel Koch, Josef Käs |
| 14:30 | H44 | BP 25.1 | Mechanical amplification by sensory hair cells from the vertebrate ear •Pascal Martin |
| Sessions | | | |
| 09:30 | H43 | BP 22 | Molecular Machines |
| 14:00 | H43 | BP 23 | Cell Motility and Migration (in vitro and in vivo) |
| 10:00 | H44 | BP 24 | Cell Mechanics (in vivo) |
| 14:30 | H44 | BP 25 | Oscillatory Systems |
| 17:00 | Poster B | BP 26 | Poster Session II |

CPP

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|----------------------|-----|----------|---|
| Invited Talks | | | |
| 09:30 | H37 | CPP 24.1 | Fluctuating 2d vesicles in hydrodynamic Stokes flow •Reimar Finken, Udo Seifert |
| 17:15 | H37 | CPP 25.1 | Coupled electro-hydrodynamic force fields for the manipulation of objects in solutions •Magnus Jaeger, Maika Felten, Guenter Fuhr, Michael Stuke, Claus Duschl |
| 10:00 | H40 | CPP 26.1 | Efficient coupling of single molecules with light •Vahid Sandoghdar |
| 10:30 | H40 | CPP 26.2 | Charge and Energy Transfer in Photosynthetic Systems - Some Principles of Photosynthetic Light Harvesting •Villy Sundström |
| 11:30 | H40 | CPP 26.5 | Optimal Control of Femtosecond Time-Resolved Four-Wave Mixing for the Selective Excitation of Molecular Modes •Arnulf Materny |
| 14:30 | H40 | CPP 27.1 | Controlling intermolecular interactions in organic semiconductors •Laura Herz |
| 15:30 | H40 | CPP 27.4 | Coherent control of single spins in diamond •Fedor Jelezko, Jörg Wrachtrup |
| 16:30 | H40 | CPP 27.7 | Optical spectroscopy on single carbon nanotubes •Achim Hartschuh, Huihong Qian, Tobias Gokus, Mathias Steiner, Alfred Meixner |
| Sessions | | | |
| 09:30 | H37 | CPP 24 | Micro and Nano Fluidics II: Soft Objects in Flow + Slippage |
| 17:15 | H37 | CPP 25 | Micro and Nano Fluidics III: Lab-on-Chip Geometries |
| 10:00 | H40 | CPP 26 | INTERNAL SYMPOSIUM Optical Spectroscopy I |
| 14:30 | H40 | CPP 27 | INTERNAL SYMPOSIUM Optical Spectroscopy II |
| 17:15 | H40 | CPP 28 | Polymer Physics V |
| 14:00 | H37 | CPP 29 | JOINT SYMPOSIUM Polyelectrolytes I |

DD

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|---------------------|-------|---------|---|
| Invited Talk | | | |
| 09:45 | H31 | DD 29.1 | Bildungsstandards Physik: Korsett oder Katalysator? •Peter Labudde |
| Sessions | | | |
| 09:45 | H31 | DD 29 | Invited Talk 7 |
| 11:00 | M 101 | DD 30 | Neue Konzepte VI (fachliche Klärungen) |

Thursday, March 29, 2007

DD

| | | | |
|-------|------------|-------|------------------------------------|
| 11:00 | M 102 | DD 31 | Lehr-Lernforschung III |
| 11:00 | M 103 | DD 32 | Praktika III (didaktische Aspekte) |
| 11:00 | M 104 | DD 33 | Neue Konzepte VII (Optik) |
| 11:00 | Phy 5.0.21 | DD 34 | Sonstiges III (moderne Physik) |

DF

| | | | |
|-------|----------|--------|--|
| 10:00 | H48 | DF 9.1 | Invited Talk Electric Field Induced Critical Points and Electromechanical Response in Relaxor Ferroelectrics •Zdravko Kutnjak, Robert Blinc, Jan Petzelt, Stanislav Kamba |
| 10:00 | H48 | DF 9 | Sessions Electric, Electromechanical and Optical Properties I |
| 14:30 | H48 | DF 10 | Dielectric and Ferroelectric Thin Films and Nanostructures III |
| 14:30 | Poster C | DF 11 | Poster Session |

DS

| | | | |
|-------|-----|---------|--|
| 11:15 | H32 | DS 21.1 | Invited Talks Growth morphology evolution in real time and real space •Joachim Krug |
| 12:00 | H32 | DS 21.2 | Growing metals on silicon surfaces - STM study in-vivo •Ivan Ošádal, Pavel Sobotík, Pavel Kocán, Jan Pudl |
| 09:30 | H34 | DS 22.1 | Grain Growth and Film Growth observed with Real-time, in-situ STM •Marcel J. Rost |
| 15:00 | H32 | DS 25.1 | Pentacene thin film growth •George Malliaras |
| 16:15 | H32 | DS 25.4 | Growth, Interface Formation and Electron Dynamics of Pentacene Thin Films •Frank Meyer zu Heringdorf |
| 17:30 | H32 | DS 25.7 | Charge Injection across Self-Assembly Monolayers in Organic Field Effect Transistors: Odd-Even Effects •Fabio Biscarini, Pablo Stoliar, Rajendra Kshirsagar, Massimiliano Massi, Paolo Annibale, Cristiano Albonetti, Dago de Leeuw |
| 09:30 | H32 | DS 20 | Sessions Symposium: Real Time Growth Studies I |
| 11:15 | H32 | DS 21 | Symposium: Real Time Growth Studies II |
| 09:30 | H34 | DS 22 | In situ STM |
| 10:00 | H34 | DS 23 | Symposium: In situ Optics III |
| 11:15 | H34 | DS 24 | Ion Beam Techniques |
| 15:00 | H32 | DS 25 | Symposium: Real Time Growth Studies III |
| 15:00 | H34 | DS 26 | Oxides |

DY

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|-------|----|---------|--|
| 09:30 | H2 | DY 25.1 | Invited Talk Surprises in the time-evolution of wave-packets •Arnd Bäcker |
| 09:30 | H2 | DY 25 | Sessions Quantum chaos II |
| 10:30 | H3 | DY 26 | Ferrofluids / Liquid crystals |
| 11:15 | H2 | DY 27 | Quantum chaos III |

Thursday, March 29, 2007

DY

| | | | |
|-------|----------|-------|--|
| 14:00 | H2 | DY 28 | Nonlinear stochastic systems |
| 14:00 | H3 | DY 29 | Soft matter |
| 16:00 | Poster D | DY 30 | Poster II |
| 18:30 | H2 | | Annual General Meeting of the Section Dynamics and Statistical Physics |

EP

| | | | |
|-------|-----|---------|--|
| | | | Invited Talks |
| 09:30 | H46 | EP 11.1 | Die Dicke der Heliosheath •Martin Hilchenbach |
| 11:30 | H46 | EP 12.1 | Initiative for Basic Research in Space •Gregor Morfill |
| 13:30 | H46 | EP 13.1 | Die Atmosphäre am Südpol des Saturnmondes Enceladus •Joachim Saur |
| 14:45 | H46 | EP 13.5 | Saturnian Dust: Rings, Ice Volcanoes, and Streams •Sascha Kempf |
| | | | Sessions |
| 09:30 | H46 | EP 11 | Heliosphäre |
| 11:30 | H46 | EP 12 | Grundlagenphysik |
| 13:30 | H46 | EP 13 | Cassini bei Saturn |

HL

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|-------|-----|---------|---|
| | | | Invited Talks |
| 09:15 | H15 | HL 34.1 | Momentum space wave functions in InAs quantum dots mapped by capacitance voltage spectroscopy •Dirk Reuter |
| 10:00 | H15 | HL 37.1 | Photoelectron spectroscopy of graphene on SiC: growth, interface, and electronic structure A. Bostwick, K.V. Emtsev, K. Horn, E. Huwald, L. Ley, J.L. McChesney, T. Ohta, J. Riley, E. Rotenberg, •Th. Seyller, F. Speck |
| 10:30 | H15 | HL 37.2 | Raman Imaging of Graphene Davy Graf, Francoise Molitor, •Klaus Ensslin, Christoph Stampfer, Alain Jungen, Christopher Hierold |
| 11:00 | H15 | HL 37.3 | Electronic confinement and coherence in high mobility epitaxial graphene •Claire Berger |
| 11:30 | H15 | HL 37.4 | News from the quantum Hall effects in graphene •Uli Zeitler |
| 12:00 | H15 | HL 37.5 | The structure of suspended graphene membranes •J. C. Meyer, A. K. Geim, M. I. Katsnelson, K. S. Novoselov, T. Booth, D. Obergfell, S. Roth, C. Girit, A. Kis, A. Zettl |
| 14:00 | H15 | HL 44.1 | Electron spin dynamics in quantum dots •Manfred Bayer |
| 14:30 | H15 | HL 44.2 | Electrical control of entangled excitons in self-assembled quantum dot molecules •Hubert J. Krenner |

Thursday, March 29, 2007

HL

| | | | |
|-------|-----|---------|--|
| 15:00 | H15 | HL 44.3 | Quantum optical studies on laterally coupled quantum dots and pillar microcavities •P. Michler, Gareth Beirne, C. Hermannstädter, S. M. Ulrich, Serkan Ates, L. Wang, A. Rastelli, O. G. Schmidt, C. Gies, J. Wiersing, F. Jahnke, S. Reitzenstein, C. Hoffmann, A. Löffler, A. Forchel |
| 15:30 | H15 | HL 44.4 | Exciton qubits: From Rabi oscillations towards optoelectronic quantum gates •Artur Zrenner, Stefan Stufler, Patrik Ester, Steffen Michaelis de Vasconcellos, Marc C. Hübner, Max Bichler, Pawel Machnikowski, Vollrath M. Axt, Tilmann Kuhn |
| 16:15 | H15 | HL 44.5 | Optical Semiconductor Microtube Ring Cavities •Tobias Kipp, Christian Strelow, Holger Welsch, Hagen Rehberg, Christoph M. Schultz, Christian Heyn, Detlef Heitmann |
| 16:45 | H15 | HL 44.6 | Semiconductor quantum dots as entangled light sources •David Gershoni |
| 17:15 | H15 | HL 44.7 | Configuration mixing of electronic states in quantum dots Kroner M., Govorov S., Remi S., Seidl S., Badoleto A., Petroff P., Warburton R., •Kahled Karrai |
| 17:45 | H15 | HL 44.8 | Coupled Quantum Dots for Quantum Information •Tom Reinecke |

Sessions

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|-------|-------------------|-------|--|
| 09:15 | H15 | HL 34 | Invited Talk Reuter |
| 10:00 | H13 | HL 35 | Devices |
| 10:00 | H14 | HL 36 | Heterostructures |
| 10:00 | H15 | HL 37 | Symposium Graphene |
| 10:00 | H17 | HL 38 | ZnO I |
| 12:15 | H14 | HL 39 | Impurities/amorphous semiconductors |
| 12:30 | H15 | HL 40 | SiC |
| 12:45 | H13 | HL 41 | Metal-insulator transitions |
| 14:00 | H13 | HL 42 | GaN: devices |
| 14:00 | H14 | HL 43 | Theory of electronic structure |
| 14:00 | H15 | HL 44 | Semiconductor Microcavities and Entangled States in Quantum Dots |
| 14:00 | H17 | HL 45 | ZnO II |
| 15:00 | Poster A | HL 46 | Poster 2 |
| 15:45 | H14 | HL 47 | Transport in high magnetic field/quantum-Hall-effect |
| 16:15 | H13 | HL 48 | Quantum dots and wires: preparation and characterization II |
| 17:30 | H17 | HL 49 | Graphene |
| 19:00 | Teppichraum Mensa | | Annual General Meeting of the Section Semiconductor Physics |

MA

Invited Talks

| | | | |
|-------|-----|---------|--|
| 09:30 | H10 | MA 21.1 | Superconductivity and Magnetism in Cd- and Hg-doped CeCoIn ₅ •Zachary Fisk |
| 10:15 | H10 | MA 22.1 | Thermal properties of magnets from <i>ab initio</i> . •Jürgen Kübler |
| 10:45 | H10 | MA 22.2 | Highly spin-polarized tunneling in fully epitaxial magnetic tunnel junctions with a Co-based full-Heusler alloy thin film and a MgO barrier •Masafumi Yamamoto, Takao Marukame, Takayuki Ishikawa, Ken-ichi Matsuda, Tetsuya Uemura |

Thursday, March 29, 2007

MA

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|-------|-----|---------|--|
| 11:15 | H10 | MA 22.3 | giant tunnel magnetoresistance at room temperature using $\text{Co}_2\text{Fe}(\text{SiAl})$ full Heusler alloy electrodes •koichiro inomata, naomichi ikeda, nobuki tezuka |
| 11:45 | H10 | MA 22.4 | First-principles study of ferromagnetic Heusler alloys: an overview •Silvia Picozzi |
| 14:00 | H10 | MA 25.1 | Magnetische Wechselwirkungen in nanokristallinen Ferromagneten: Untersuchungen mit Neutronenstreuung •Andreas Michels |
| 14:30 | H10 | MA 25.2 | Strain induced ferromagnetic order in undoped LaCoO_3 thin films •Dirk Fuchs, Christian Pinta, Thorsten Schwarz, Peter Scheiss, Peter Nagel, Stefan Schuppler, Rudolf Schneider, Michael Merz, Georg Roth, Hilbert von Löhneysen |

Sessions

| | | | |
|-------|-----|-------|--|
| 09:30 | H10 | MA 21 | Invited Talk Fisk (joint session with TT) |
| 10:15 | H10 | MA 22 | FV intern Symposium: "Heusler Alloys" \\ Invited Talks Kübler/Yamamoto/Inomata/Silvia Picozzi |
| 10:15 | H22 | MA 23 | Micro- and Nanostructured Magnetic Materials I |
| 10:15 | H23 | MA 24 | Spindynamics / Switching II |
| 14:00 | H10 | MA 25 | Invited Talks Michels / Fuchs |
| 15:15 | H10 | MA 26 | Exchange Bias |
| 15:15 | H22 | MA 27 | Micro- and Nanostructured Magnetic Materials II |
| 15:15 | H23 | MA 28 | Surface Magnetism |
| 15:15 | H5 | MA 29 | Magnetic Measuring Methods / Sensors / Actuators |
| 19:00 | H10 | | Annual General Meeting of the Section Magnetism |

MM

Invited Talks

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|-------|-----|---------|--|
| 09:30 | H16 | MM 27.1 | Atomic Migration Phenomena in Intermetallics with High Superstructure Stability •Rafal Kozubski, Véronique Pierron-Bohnes, Wolfgang Pfeiler |
| 14:00 | H16 | MM 34.1 | Shape-Memory Polymers •Andreas Lendlein |

Sessions

| | | | |
|-------|-----|-------|---------------------------------|
| 09:30 | H16 | MM 27 | HV Kozubski |
| 10:15 | H16 | MM 28 | Intermetallic phases I |
| 11:45 | H16 | MM 29 | Intermetallic phases II |
| 10:15 | H4 | MM 30 | Phase transitions III |
| 11:45 | H4 | MM 31 | Nano structured materials III |
| 10:15 | H6 | MM 32 | Diffusion and point defects I |
| 11:45 | H6 | MM 33 | Diffusion and point defects II |
| 14:00 | H16 | MM 34 | HV Lendlein |
| 14:45 | H16 | MM 35 | SYBM Bioinspired Materials |
| 14:45 | H4 | MM 36 | Nano structured materials IV |
| 16:45 | H4 | MM 37 | Nano structured materials V |
| 14:45 | H6 | MM 38 | Diffusion and point defects III |
| 16:15 | H6 | MM 39 | Mechanical properties I |

Invited Talks

| | | | |
|-------|-----|--------|--|
| 09:30 | H36 | O 47.1 | Complex magnetic structures on the atomic scale revealed by spin-polarized STM •Kirsten von Bergmann |
| 10:15 | H36 | O 48.1 | Semiconductor nanostructures: From self-assembly to self-ordering •Thomas Schmidt |
| 14:00 | H36 | O 54.1 | Interplay between dimensionality and "exotic" properties: Model systems on surfaces •Alexander Menzel, Enrico Dona, Mariana Minca, Erminald Bertel |
| 14:45 | H36 | O 55.1 | Real-time observation of organic layer growth: a spectro-microscopic study •Thomas Schmidt, Helder Marchetto, Ullrich Groh, Florian Maier, Pierre Lévesque, Rainer Fink, Hans-Joachim Freund, Eberhard Umbach |
| 15:45 | H36 | O 56.1 | Computer Simulation of Electrochemical Reactions at the Water / Metal Interface •Eckhard Spohr |
| 16:15 | H36 | O 56.2 | Electric field effects at metal surfaces •Ali Alavi, Alexander Lozovoi |
| 17:30 | H36 | O 56.4 | Computer simulation of solution/electrode interfaces •Fernando Fernandes |
| 18:00 | H36 | O 56.5 | Proton Conductors for Fuel Cells: The Role of Interfacial Structure and Dynamics •Michael Eikerling, Ata Roudgar, Sudha Narasimachary |

Sessions

| | | | |
|-------|-------------|------|--|
| 08:30 | H1 | O 46 | Prize Talk Finley (Walter-Schottky-Prize) |
| 09:30 | H36 | O 47 | Invited Talk von Bergmann |
| 10:15 | H36 | O 48 | Invited Talk Schmidt |
| 11:15 | H36 | O 49 | Nanostructures at Surfaces V (Self Organization of Molecules) |
| 11:15 | H38 | O 50 | Particles and Clusters II |
| 11:15 | H39 | O 51 | Metal Substrates: Adsorption III |
| 11:15 | H42 | O 52 | Methods: Atomic and Electronic Structure II |
| 13:00 | H1 | O 53 | Prize Talk Grünberg (Stern-Gerlach-Prize) |
| 14:00 | H36 | O 54 | Invited Talk Menzel |
| 14:45 | H36 | O 55 | Invited Talk Schmidt |
| 15:45 | H36 | O 56 | Symposium: The Solid-Liquid Interface: A Challenge for Theoreticians I |
| 15:45 | H38 | O 57 | Surface Chemical Reactions and Heterogeneous Catalysis II |
| 15:45 | H39 | O 58 | Metal Substrates: Adsorption IV |
| 15:45 | H41 | O 59 | Oxides and Insulators: Clean Surfaces |
| 15:45 | H42 | O 60 | Time-Resolved Spectroscopies |
| 20:00 | H36 | O 62 | Post Deadline Session |
| 21:00 | H36 hallway | O 63 | Surface Science Symposium |

19:30 H36 Annual General Meeting of the Section Surface Science

Invited Talks

| | | | |
|-------|------------|---------|--|
| 10:15 | Ch 12.0.16 | ST 10.1 | Die SSK-Empfehlung von 2005 für $w(\text{sub R})$ -Werte von Neutronenstrahlen •Dietrich Harder |
| 10:45 | Ch 12.0.16 | ST 10.2 | Biologische Wirkungen von Neutronen •Gerhard Kraft |

Thursday, March 29, 2007

ST

13:30 Ch 12.o.16 ST 11.1 Was können wir aus epidemiologischen Daten über Mechanismen der Strahlenkrebs-Induktion lernen?
•Wolfgang Heidenreich

Sessions

10:15 Ch 12.o.16 ST 10 Neutronenphysik und Strahlenschutz
13:30 Ch 12.o.16 ST 11 Strahlenrisiko

TT

Invited Talks

09:30 H20 TT 24.1 Probing interacting systems of cold atoms using interference experiments
•Eugene Demler
10:00 H20 TT 24.2 Criticality and correlations in cold atomic gases
•Michael Köhl
14:00 H20 TT 27.1 Graphene: New bridge between condensed matter physics and QED
•Mikhail Katsnelson
15:20 H20 TT 27.4 Transport properties of mesoscopic graphene
•Björn Trauzettel

Sessions

09:30 H18 TT 22 Low-dimensional Systems - Materials
09:30 H19 TT 23 Nanoelectronics II - Spintronics and Magnetotransport
09:30 H20 TT 24 Symposium ``Condensed Matter Phases in Ultracold Atoms''
14:00 H18 TT 25 Quantum Liquids, Bose-Einstein Condensates, Ultracold Atoms, ...
14:00 H19 TT 26 Metal-Insulator Transition
14:00 H20 TT 27 Symposium ``Graphene''
14:00 Poster A TT 28 Transport - Poster Session
16:00 H18 TT 29 Superconductivity - Mechanisms, Phase Diagram, Competing Order
17:00 H20 TT 30 Superconductivity - Cryodetectors
17:45 H19 TT 31 Low-dimensional Systems - Models I
18:00 H18 TT 32 Fluctuations and Noise

19:30 H19 Annual General Meeting of the Section Low Temperature Physics

AIW

Vorträge

10:00 H11 AIW 1.1 Begrüßung
•Astrid Rauchfuss
10:15 H11 AIW 1.2 Der Arbeitsmarkt für Physiker
•Susanne Wimmer
11:00 H11 AIW 1.3 Physiker in der Unternehmensberatung
•Astrid Rauchfuss
11:45 H11 AIW 1.4 Fallstudie Unternehmensberatung
•Astrid Rauchfuss, Weitere Berater
14:00 H11 AIW 2.1 Physiker als Patentanwälte
•Dr. Michael Schramm
14:45 H11 AIW 2.2 Physiker bei einer Bank
•Dr. Matthias Mayr
15:30 H11 AIW 2.3 Physiker bei einem Software-Unternehmen
•Dr. Harald Borner

Thursday, March 29, 2007

AIW

| | | | |
|-------|-----|---------|--|
| 16:15 | H11 | AIW 2.4 | Podiumsdiskussion: Physiker als „intellektuelle Allzweckwaffen“- Qualifikationen und Anforderungen aus Sicht physikferner Berufsfelder •Dr. Stefan Jorda, Diverse Referenten |
| 17:00 | H11 | AIW 2.5 | Bier und Brezn •Astrid Rauchfuss |
| | | | Sessions |
| 10:00 | H11 | AIW 1 | Industrietag 2007 - Teil I |
| 14:00 | H11 | AIW 2 | Industrietag 2007 - Teil II |

AKA

| | | | |
|-------|-----|---------|---|
| | | | Invited Talks |
| 09:30 | H45 | AKA 2.1 | The Reliable Replacement Warhead Program and the Future of the US Nuclear Stockpile •Robert Nelson |
| 10:30 | H45 | AKA 2.2 | The Modernization of the Russian Strategic Forces and the Future of the US-Russian Arms Control •Eugene Miasnikov |
| 14:00 | H45 | AKA 4.1 | A Multinational Enrichment Facility in Iran as a Solution to the Current Crisis •Geoffrey Forden |
| | | | Sessions |
| 09:30 | H45 | AKA 2 | Nuklearwaffenentwicklungen |
| 12:00 | H45 | AKA 3 | Neue Technologien, Dual-Use und präventive Rüstungskontrolle |
| 14:00 | H45 | AKA 4 | Proliferation und ihre Eindämmung |
| 16:30 | H45 | AKA 5 | Weltraumrüstung und neue Technologien |
| 18:00 | H45 | | Annual General Meeting of the Working Group Physics and Disarmament |

AKSOE

| | | | |
|-------|----|------------|--|
| | | | Invited Talk |
| 09:30 | H8 | AKSOE 11.1 | Ecology of firms in a financial market •Rosario Nunzio Mantegna, Fabrizio Lillo, Esteban Moro, Gabriella Vaglica |
| | | | Sessions |
| 09:30 | H8 | AKSOE 11 | Social-, Information-, and Production Networks II |
| 10:15 | H8 | AKSOE 12 | Social, Information-, and Production Networks III |
| 11:45 | H8 | AKSOE 13 | Economic Models and Evolutionary Game Theory II |
| 14:00 | H8 | AKSOE 14 | Financial Markets and Risk Management III |
| 17:45 | H8 | AKSOE 15 | Dynamics of Groups and Organizations IV |

SYBM

| | | | |
|-------|----|----------|--|
| | | | Invited Talks |
| 09:30 | H1 | SYBM 1.1 | Using Ice to Mimic Nacre: From Structural Materials to Artificial Bone •A. P. Tomsia, S. Deville, E. Saiz |
| 10:00 | H1 | SYBM 1.2 | On the structure of biogenic CaCO ₃ •B. Pokroy |
| 10:30 | H1 | SYBM 1.3 | Bio-Inspired Hybrid Materials from Block Copolymer Assemblies and Nanoparticle Co-assemblies •U. Wiesner |

Thursday, March 29, 2007

SYBM

| | | | |
|-------|----|----------|--|
| 11:15 | H1 | SYBM 1.4 | Bio-Inspired Organic-inorganic Hybrid Materials •U. Steiner |
| 11:45 | H1 | SYBM 1.5 | Structural, Nanomechanical, and Nanotribological Characterization of Human Hair Using Atomic Force Microscopy and Nanoindentation •Bharat Bhushan |
| 09:30 | H1 | SYBM 1 | Session Symposium Bioinspired Materials |

SYEN

| | | | |
|-------|----|----------|--|
| 14:00 | H1 | SYEN 1.1 | Invited Talks Probabilities (and more) from entanglement •Wojciech Zurek |
| 14:30 | H1 | SYEN 1.2 | Entanglement and the Foundations of Statistical Mechanics •Sandu Popescu |
| 15:00 | H1 | SYEN 1.3 | Universality and classical simulation of quantum computation Maarten van den Nest, Wolfgang Dür, Akimasa Miyake, Guifre Vidal, •Hans Briegel |
| 15:30 | H1 | SYEN 1.4 | Towards the convex roof of multipartite entanglement measures •Andreas Osterloh, Jens Siewert, Robert Lohmayer, Armin Uhlmann |
| 16:00 | H1 | SYEN 1.5 | Decoherence induced by interacting quantum spin baths •Rosario Fazio |
| 16:30 | H1 | SYEN 1.6 | Sweep a qubit to learn about its environment •Peter Hänggi, Martijn Wubs, Keiji Saito, Roland Doll, Sigmund Kohler, Yosuke Kayanuma |
| 14:00 | H1 | SYEN 1 | Session Symposium Entanglement |

SYPE

| | | | |
|-------|-----|----------|--|
| 14:00 | H37 | SYPE 2.1 | Invited Talks Coulomb and Flory: Fathers of SONS. Polyelectrolytes in Self Organized Nano Systems •Martien Cohen Stuart |
| 16:00 | H37 | SYPE 2.7 | Bundling Phenomena in Semiflexible Polyelectrolytes •Christian Holm, Mehmet Sayar, Berk Hess |
| 14:00 | H37 | SYPE 2 | Session Polyelectrolytes I |

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|-------|-----|------------|
| 13:15 | H33 | Job market |
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|------------|-------|---|
| 9:00-17:00 | Foyer | Exhibition of scientific instruments and literature |
|------------|-------|---|

Friday, March 30, 2007

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|-------|----|--------|---|
| 08:30 | H1 | PV XV | Plenary Talks Active gels: toward a generic approach of cell mechanics •Jean-François Joanny |
| 09:15 | H1 | PV XVI | Catalysis from first principles •Jens K. Nørskov |

BP

| | | | |
|-------|-----|---------|---|
| 10:30 | H43 | BP 27.1 | Invited Talk From target search to travel bugs: scale free motion in biology •Dirk Brockmann |
| 10:30 | H43 | BP 27 | Sessions Nonequilibrium Processes and Self-Organisation |
| 11:00 | H44 | BP 28 | Biomedical Applications |

CPP

| | | | |
|-------|-----|--------|--|
| 10:30 | H1 | CPP 30 | Sessions JOINT SYMPOSIUM Polyelectrolytes II |
| 10:30 | H40 | CPP 31 | New Materials |

DF

| | | | |
|-------|-----|---------|---|
| 10:30 | H11 | DF 12.1 | Invited Talk Piezoelektrische Gradientenkeramik -- Herstellung und Charakterisierung •Ralf Steinhausen |
| 10:30 | H11 | DF 12 | Session Electric, Electromechanical and Optical Properties II |

DS

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|-------|-----|-------|--|
| 09:30 | H32 | DS 27 | Sessions Polymer and Composite Films |
| 11:30 | H32 | DS 28 | Silicon Thin Films and Interfaces |

DY

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|-------|----|-------|--|
| 10:15 | H2 | DY 31 | Sessions Granular matter / contact dynamics II |
| 10:15 | H3 | DY 32 | Synchronization |
| 12:00 | H3 | DY 33 | Nonlinear dynamics and pattern formation |

HL

| | | | |
|-------|-----|---------|---|
| 10:15 | H15 | HL 50.1 | Invited Talk Quantum Transport in High Mobility GaN/AlGaN 2DEGs and Nanostructures •Stefan Schmult, Alexander Punnoose, Michael J. Manfra, Hungtao Chou, David Goldhaber-Gordon, Richard J. Molnar |
| 10:15 | H15 | HL 50 | Sessions Invited Talk Schmult |

Friday, March 30, 2007

HL

| | | | |
|-------|-----|-------|---------------------------------------|
| 11:00 | H13 | HL 51 | GaN: preparation and characterization |
| 11:00 | H14 | HL 52 | Transport properties |
| 11:00 | H15 | HL 53 | Ultra fast phenomena |

MA

| | | | |
|-------|-----|---------|--|
| 10:15 | H10 | MA 30.1 | Invited Talk Response of plants and animals to magnetic fields with cryptochrome, a field sensitive blue light photoreceptor •Margaret Ahmad, Paul Galland, Thorsten Ritz, Roswitha Wiltschko, Wolfgang Wiltschko |
| 10:15 | H10 | MA 30 | Sessions Invited Talk Margaret Ahmad |
| 11:00 | H10 | MA 31 | Bio- and Molecular Magnetism |
| 11:00 | H22 | MA 32 | Magnetic Imaging |
| 11:00 | H23 | MA 33 | Spindynamics / Switching III |

MM

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|-------|-----|---------|--|
| 10:15 | H16 | MM 40.1 | Invited Talk Material science with positrons: From Doppler-Spectroscopy to Failure Prediction •Matz Haaks |
| 10:15 | H16 | MM 40 | Sessions HV Haaks |
| 11:00 | H16 | MM 41 | Materials design I |
| 12:30 | H16 | MM 42 | Materials design II |
| 11:00 | H6 | MM 43 | Mechanical properties II |
| 12:30 | H6 | MM 44 | Mechanical properties III |

O

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|-------|-----|--------|---|
| 10:15 | H38 | O 67.1 | Invited Talks Interfacial Properties of Transition Metal Oxides •Elisabet Ahlberg, Zareen Abbas, Sture Nordholm |
| 10:45 | H38 | O 67.2 | Modeling the Electrochemical Potential of the Aqueous-Electrode Interface within Periodic Density Functional Theory •Sally Wasileski, Christopher Taylor, Michael Janik, Matthew Neurock |
| 08:30 | H1 | O 64 | Sessions Plenary Talk Joanny |
| 09:15 | H1 | O 65 | Plenary Talk Nørskov |
| 10:15 | H36 | O 66 | Nanostructures at Surfaces VI (Surface Reconstructions) |
| 10:15 | H38 | O 67 | Symposium: The Solid-Liquid Interface: A Challenge for Theoreticians II |
| 10:15 | H39 | O 68 | Metal Substrates: Adsorption V |
| 10:15 | H41 | O 69 | Metal Substrates: Clean Surfaces |
| 10:15 | H42 | O 70 | Methods: Atomic and Electronic Structure III |

TT

| | | | |
|-------|-----|-------|---|
| 10:15 | H18 | TT 33 | Sessions Low-dimensional Systems - Models II |
| 10:15 | H19 | TT 34 | Superconductivity - Vortex Dynamics, Vortex Phases, Pinning |

Friday, March 30, 2007

AKSOE

09:30 H8 AKSOE 16 **Session**
Traffic Dynamics, Urban, and Regional Systems

SYPE

10:30 H1 SYPE 3.1 **Invited Talks**
Behaviour of polyelectrolyte solutions under confinement
•Dominique Langevin, César Marquez, Heinig Peter, Dan Qu

11:30 H1 SYPE 3.4
Polymers at Surfaces: Sticking and Gliding
•Roland Netz

10:30 H1 SYPE 3 **Session**
Polyelectrolytes II

LT

09:00 H4 LT 1.1 **Vorträge**
Vom Spiel des Kindes zum Experiment der Wissenschaft
•Peter Labudde

10:00 H4 LT 1.2
Physik der menschlichen Stimme
•Leopold Mathelitsch

11:00 H4 LT 1.3
Videos in der Lehrerbildung
•Helga Stadler

14:00 H4 LT 2.1
Rotierende Teelichter, Linearmotore und schwebende Scheiben -
Faszinierende Induktionsmotore zum einfachen Nachbau im Unterricht
•Thomas Wilhelm

15:00 H4 LT 2.2
Physik im Kontext: Förderung naturwissenschaftlicher Denk- und
Arbeitsweisen in einem kontextorientierten Physikunterricht
•Silke Mikelskis-Seifert

09:00 H4 LT 1 **Sessions**
Lehrrertage I

14:00 H4 LT 2
Lehrrertage II

13:15 H33 Job market

Saturday, March 31, 2007

LT

Vorträge

| | | | |
|-------|----|--------|---|
| 09:00 | H4 | LT 3.1 | Science Literacy als Ziel des Physikunterrichts •Rolf Dubs |
| 10:00 | H4 | LT 3.2 | „Experimente“ im Physikunterricht •Maike Tesch |
| 11:00 | H4 | LT 3.3 | Historische Experimente im Physikunterricht •Peter Heering |
| 14:00 | H4 | LT 4.1 | Lernaufgaben in der Physik •Josef Leisen |
| 15:00 | H4 | LT 4.2 | Im Physikunterricht mit Selbstgebaudem experimentieren •Beat Schären |

Sessions

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