

# Synopsis of Daily Program

Monday, 8.3.2010

## Plenary Talks

- |       |                          |   |
|-------|--------------------------|---|
| 11:00 | E 415 und E 214<br>PV I  | Quantum interference experiments with massive matter<br>•Markus Arndt |
| 11:45 | E 415 und E 214<br>PV II | Photostability of the Building Blocks of Life<br>•Wolfgang Domcke     |

A

## Invited Talks

- |       |       |       |   |
|-------|-------|-------|---|
| 14:00 | F 303 | A 1.1 | A hitherto unrecognized source of low-energy electrons in water<br>•Melanie Mucke, Markus Braune, Silko Barth, Marko Förstel, Toralf Lischke, Volker Ulrich, Tiberiu Arion, Uwe Becker, Alex M. Bradshaw, Uwe Hergenhan                                   |
| 15:30 | F 303 | A 1.6 | Two-Center Interference in Valence Photoionization of N <sub>2</sub> and O <sub>2</sub><br>•Markus Braune, Markus Ilchen, Sanja Korica, Andre Meißner, Lokesh Tribedi, Sascha Deinert, Leif Glaser, Frank Scholz, Peter Walter, Jens Viehhaus, Uwe Becker |
| 16:30 | F 303 | A 4.1 | Quantum Dynamics Visualized by Reaction Microscopes: From intense virtual towards real attosecond photon fields<br>•Joachim Ullrich, Robert Moshhammer  |
| 17:00 | F 303 | A 4.2 | Strong Field Dynamics Studied with Ion and Electron Momentum Imaging<br>•Lewis Cocke, Dipanwita Ray, Sankar De, Wei Cao, Guillaume Laurent, ChiiDong Lin, AT Le, Zhangjin Chen, Feng He, Uwe Thumm  |
| 17:30 | F 303 | A 4.3 | Breaking the longest bond -- Photoionization of the Helium Dimer<br>•R. Dörner, T. Havermeier, H. Sann, T. Jahnke, M. Schöffler, J. Titze, N. Neumann, K. Kreidi, R. Wallauer, S. Voss, L. Ph. H. Schmidt, H. Schmidt-Böcking, R. Grisenti, W. Schöllkopf |
| 18:00 | F 303 | A 4.4 | Complete (e,2e) experiments with COLTRIMS<br>•Alexander Dorn  |

## Sessions

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|-------|-------|-----|--|
| 14:00 | F 303 | A 1 | Photoionization I  |
| 14:00 | F 107 | A 2 | Atomic Systems in External Fields I                      |
| 14:00 | A 320 | A 3 | Ultra-Cold Atoms: Trapping and Cooling (with Q)          |
| 16:30 | F 303 | A 4 | COLTRIMS-based Collision Physics                         |
| 16:30 | A 320 | A 5 | Ultra-Cold Atoms: Rydberg Gases / Miscellaneous (with Q) |

DD

## Invited Talks

- |       |       |         |  |
|-------|-------|---------|--|
| 11:00 | F 102 | DD 1.1  | Empirische Erkenntnisse zur Wirksamkeit der universitären<br>Lehrerbildung<br>•Josef Riese |
| 16:30 | M 11  | DD 12.1 | Dynamik in den Mechanikunterricht<br>•Hartmut Wiesner                                      |
| 17:45 | M 11  | DD 13.1 | Quanteninformationstheorie – ein Thema für den Schulunterricht<br>•Wolfgang Dür            |

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## Monday, 8.3.2010

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DD

### Sessions

10:30	F 102	DD 1	Eröffnung und Hauptvortrag I
13:00	S1	DD 2	Praktika
13:00	S2	DD 3	Lehr- und Lernforschung I (Kontexte)
13:00	S3	DD 4	Lehreraus- und -fortbildung I (Experimentieren)
13:00	S4	DD 5	Lehr- und Lernforschung II (Schülerlabore u.a.)
13:00	S5	DD 6	Neue Konzepte I (Quantenphysik)
14:40	S1	DD 7	Sonstiges I
14:40	S2	DD 8	Lehr- und Lernforschung III (Motivation)
14:40	S3	DD 9	Astronomie
14:40	S4	DD 10	Sonstiges II (Begabtenförderung)
14:40	S5	DD 11	Neue Konzepte II (Experimente)
16:30	M 11	DD 12	Hauptvortrag II
17:45	M 11	DD 13	Hauptvortrag III

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K

### Invited Talks

14:00	F 442	K 1.1	Fortschritte in der Kameratechnologie für wissenschaftliche Anwendungen – neue CMOS Bildsensoren •Gerhard Holst
14:30	F 442	K 1.2	Photon, Phonon und zwei neue mechanische Quanten •Rudolf Germer

### Sessions

14:00	F 442	K 1	Optische Methoden
16:30	F 442	K 2	Pulsed Power Technik
15:45	F 442		Annual General Meeting of the Short Time-scale Physics Division

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MO

### Invited Talks

14:00	F 102	MO 1.1	Charge-transfer dynamics in organic mixed-valence compounds •Ingo Fischer
16:30	F 102	MO 3.1	Mechanisms of Triplet Generation and Depletion in Organic Molecules •Christel M. Marian
16:30	F 142	MO 4.1	Rock and Roll in He Nanodroplets: Aggregation at Ultracold Conditions •Gerhard Schwaab, Elsa Sanchez-Garcia, Anja Metzelthin, Wolfram Sander, Martina Havenith

### Sessions

14:00	F 102	MO 1	Electronic spectroscopy I
14:00	F 142	MO 2	Collisions, Energy Transfer
16:30	F 102	MO 3	Theory: Quantum Chemistry and Molecular Dynamics
16:30	F 142	MO 4	Spectroscopy in He droplets

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MS

### Invited Talks

14:00	F 428	MS 1.1	Resonanzionisationsmassenspektrometrie (RIMS) zur isotopenselektiven Ultrapurenanalyse von langlebigen Radionukliden •Nicole Erdmann
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## Monday, 8.3.2010

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MS

14:30	F 428	MS 1.2	ESI-MS for nuclear safety assessment: Polymerization of plutonium •Clemens Walther
16:30	F 428	MS 2.1	Cold electron collisions at ion storage rings •Andreas Wolf
17:00	F 428	MS 2.2	Photodissociation of dipeptide cations in an electrostatic ion storage ring •Steen Brøndsted Nielsen

### Sessions

14:00	F 428	MS 1	Laser-Resonanzionisation, REMPI und MALDI
16:30	F 428	MS 2	Speicherringe und neue Entwicklungen

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P

### Sessions

14:00	B 302	P 1	Plasmatechnology
14:00	B 305	P 2	Diagnostics
16:45	B 302	P 3	Dusty Plasmas
16:00	Lichthof	P 21	Poster: Plasma-Wall Interaction

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Q

### Plenary Talk

16:30	A 320	Q 9.1	Highly excited atoms in cold environments: From antihydro- gen production to ultracold plasmas and Rydberg gases •Thomas Pohl (Laureate of the Gustav-Hertz-Award 2010)
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### Sessions

14:00	A 310	Q 1	Quantum Effects: Light Scattering and Propagation I / Interference and Correlations I
14:00	A 320	Q 2	Ultracold Atoms: Trapping and Cooling (with A)
14:00	E 001	Q 3	Quantum Gases: Bosons I
14:00	E 214	Q 4	Quantum Information: Concepts and Methods I
14:00	F 128	Q 5	Laser Development: Nonlinear Effects I
14:00	F 342	Q 6	Ultrashort Laser Pulses: Generation I
14:00	M 11	Q 7	Precision Measurements and Metrology I
16:30	A 310	Q 8	Quantum Effects: Interference and Correlations II / Entanglement and Decoherence I
16:30	A 320	Q 9	Ultracold Atoms: Rydberg Gases / Miscellaneous (with A)
16:30	E 001	Q 10	Quantum Gases: Bosons II
16:30	E 214	Q 11	Quantum Information: Concepts and Methods II
16:30	F 128	Q 12	Laser Development: Solid State Lasers I
16:30	F 342	Q 13	Ultrashort Laser Pulses: Generation II

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SYDP

### Invited Talks

16:30	F 107	SYDP 1.1	Experimental all-optical one-way quantum computing •Robert Prevedel
17:00	F 107	SYDP 1.2	Benchmarks and statistics of entanglement dynamics •Markus Tiersch
17:30	F 107	SYDP 1.3	Squeezed Light For Gravitational Wave Astronomy •Henning Vahlbruch

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## Monday, 8.3.2010

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### SYDP

18:00 F 107 SYDP 1.4 High-precision mass measurements with Penning traps  
•Sebastian George

16:30 F 107 SYDP 1 **Session**  
AMOP Dissertation Prize Symposium

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### SYFC

**Invited Talks**

14:00 A 001 SYFC 1.1 Fundamental constants, gravitation and cosmology  
•Jean-Philippe Uzan

14:30 A 001 SYFC 1.2 Molecular hydrogen in the lab and in the early universe; search for varying  $\mu$   
•Wim Ubachs

15:00 A 001 SYFC 1.3 Stability of the proton-to-electron mass ratio tested with molecular spectroscopy using an optical link to frequency reference  
•Anne Amy-Klein, Alexander Shelkownikov, Robert J. Butcher, Olivier Lopez, Christophe Daussey, Haifeng Jiang, Fabien Kéfélian, Giorgio Santarelli, Christian Chardonnet

15:30 A 001 SYFC 1.4 Optical clocks with trapped ions and the search for variations of fundamental constants  
•Ekkehard Peik

16:30 A 001 SYFC 2.1 Gravitational and cosmological probes of varying fundamental parameters  
•Thomas Dent

17:00 A 001 SYFC 2.2 The astrophysical search for varying fundamental constants  
•Nils Prause

**Sessions**

14:00 A 001 SYFC 1 Variations of Fundamental Constants I  
16:30 A 001 SYFC 2 Variations of Fundamental Constants II

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### SYPT

**Invited Talks**

13:30 E 415 SYPT 1.1 Ionenstrahl- und Plasmaprozesse für die Beschichtung von Laseroptiken  
•Johannes Ebert

14:10 E 415 SYPT 1.2 Plasma und Optische Technologien (PluTO)  
•Norbert Kaiser, Peter Awakowicz, Ralf Peter Brinkmann, Thomas Frauenheim, Thomas Musch, Andreas Ohl, Detlev Ristau, Ilona Rolfes, Olaf Stenzel

14:40 E 415 SYPT 1.3 Plasmagestützte Prozesse  
•Dieter Gäbler

15:10 E 415 SYPT 1.4 Aktuelle Trends in der Ionenstrahl-Beschichtungstechnologie  
•Kai Starke, Detlev Ristau

15:40 E 415 SYPT 1.5 Ionenprozesse für hochwertige Optiken  
•Carsten Schmitz

16:30 E 415 SYPT 2.1 Niedertemperatur-Plasmen in der Feinoptik  
•Jens Harhausen, Rüdiger Foest, Andreas Ohl, Hartmut Steffen

17:00 E 415 SYPT 2.2 Spin-Offs of Electric Space Propulsion Technology in Surface Modification Applications  
•Davar Feili

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## Monday, 8.3.2010

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**SYPT**

17:30	E 415	SYPT 2.3	Prozesstaugliche Plasmadiagnostik mit der Multipolresonanzsonde •Ralf Peter Brinkmann, Peter Awakowicz, Martin Lapke, Thomas Musch, Jens Oberrath, Ilona Rolfes, Robert Storch, Tim Styrnol, Christian Zietz
18:00	E 415	SYPT 2.4	Struktur, elektronische und optische Eigenschaften von kristallinen und amorphen TiO <sub>2</sub> -Schichten •Thomas Frauenheim, Thomas Köhler, Grygoriy Dolgonos, Wolf-Gero Schmidt
18:30	E 415	SYPT 2.5	Plasma Diagnostics for Plasma Process Instabilities through Gas Heating •Michael Klick
13:30	E 415	SYPT 1	<b>Sessions</b> Beschichtungsverfahren
16:30	E 415	SYPT 2	Plasmatechnik
19:30	Mensa		<b>Welcome Evening</b> (for all registered participants)

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## Tuesday, 9.3.2010

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### Plenary Talks

- 08:30 E 415 und E 214  
PV III Plasma physics - the scientific base for ITER  
•Hartmut Zohm
- 09:15 E 415 und E 214  
PV IV Fundamental tests in Cavity Quantum Electrodynamics  
•Serge Haroche (Laureate of the Herbert-Walther-Award 2010)
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### 10:30 E 415 und E 214 Ceremonial Act and Award Ceremony

PV V

#### Ceremonial Lecture

Von Otto Sterns Molekularstrahlmethode zum COLTRIMS-Reaktionsmikroskop  
•Horst Schmidt-Böcking  
(Laureate of the Stern-Gerlach-Medal 2010)

#### Panel Discussion

Wissenschaftslandschaft im Wandel – Was erwartet unseren wissenschaftlichen Nachwuchs?

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A

- 14:00 F 303 A 6.1  
**Invited Talk**  
Probing weakly bound molecules with nonresonant light  
•Mikhail Lemeshko, Bretislav Friedrich

#### Sessions

- 14:00 F 303 A 6 Ultra-Cold Atoms, Ions and BEC I (with Q)  
14:00 A 320 A 7 Ultra-Cold Atoms: Manipulation and Detection (with Q)  
16:30 Lichthof A 8 Poster I
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DD

#### Sessions

- 14:00 S1 DD 14 Anregungen aus dem Unterricht für den Unterricht  
14:00 S2 DD 15 Lehr- und Lernforschung IV (Lernprozesse)  
14:00 S3 DD 16 Hochschuldidaktik  
14:00 S4 DD 17 Neue Medien I  
14:00 S5 DD 18 Neue Konzepte III (Optik)  
16:00 Lichthof DD 19 Postersitzung
- 18:00 F 102 Mitgliederversammlung des Fachverbandes Didaktik der Physik
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MO

#### Sessions

- 14:00 F 102 MO 5 Femtosecond Spectroscopy I  
14:00 F 142 MO 6 Cold Molecules I  
16:00 Lichthof MO 7 Poster: Femtosecond Spectroscopy  
16:00 Lichthof MO 8 Poster: Electronic Spectroscopy  
16:00 Lichthof MO 9 Poster: Collisions, Energy Transfer  
16:00 Lichthof MO 10 Poster: Spectroscopy in He Droplets

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## Tuesday, 9.3.2010

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MO

16:00 Lichthof MO 11 Poster: Theory

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MS

14:00 F 428 MS 3.1 **Invited Talk**  
TOF-B $\rho$  mass measurements of neutron rich nuclei at the NSCL  
•Sebastian George, Alfredo Estrade, Milan Matoš, Mathew A. Amthor, Daniel Bazin, Ana D. Becerril, Thom J. Elliot, Alexandra Gade, Daniel Galaviz, Giuseppe Lorusso, Jorge Pereira, Mauricio Portillo, Andrew Rogers, Hendrik Schatz, Dan Shapira, Edward Smith, Andreas Stolz, Mark S. Wallace

14:00 F 428 MS 3 **Session**  
Neue massenspektrometrische Methoden und Entwicklungen

16:00 F 428 Annual General Meeting of the Division Mass Spectrometry

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P

11:40 B 305 P 4.1 **Invited Talks**  
Experiments and Simulations of Dusty Plasmas  
•Andre Melzer

12:10 B 305 P 4.2 Electrostatic microparticle propulsion for space flights  
•Thomas Trottenberg, Viktor Schneider, Holger Kersten

**Sessions**  
11:40 B 305 P 4 Invited Talks Melzer, Trottenberg  
14:15 B 302 P 5 Theory/Modelling I  
14:15 B 305 P 6 Low Temperature Plasmas I  
16:00 Lichthof P 7 Poster: Dusty Plasmas  
16:00 Lichthof P 8 Poster: Low Temperature Plasmas I  
16:00 Lichthof P 9 Poster: Plasmatechnology  
16:00 Lichthof P 10 Poster: Theory/Modelling I

12:40 B 305 Annual General Meeting of the Plasma Physics Division

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Q

**Sessions**  
14:00 A 310 Q 14 Precision Measurements and Metrology II  
14:00 A 320 Q 15 Ultracold Atoms: Manipulation and Detection (with A)  
14:00 E 001 Q 16 Quantum Gases: Interaction Effects I  
14:00 E 214 Q 17 Quantum Information: Atoms and Ions I  
14:00 F 128 Q 18 Laser Development: Solid State Lasers II  
14:00 F 342 Q 19 Ultrashort Laser Pulses: Generation III  
14:00 F 303 Q 20 Ultra Cold Atoms, Ions and BEC I (with A)  
16:00 Lichthof Q 21 Poster I

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## Tuesday, 9.3.2010

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UP

14:00	M 11	UP 1.1	<b>Plenary Talk</b> Differenzielle Optische Absorptions-Spektroskopie: Entwicklung - Anwendungen - Zukunft •Ulrich Platt (Laureate of the Robert-Wichard-Pohl-Award 2010)
14:30	M 11	UP 1.2	<b>Invited Talk</b> Erfassung und Modellierung der Energie- und Stoffflüsse vom Grundwasser bis zur Atmosphäre •Clemens Simmer, Stefan Kollet
14:00	M 11	UP 1	<b>Sessions</b> Atmospheric Spectroscopy
16:30	Lichthof	UP 2	Poster Session

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SYDC

14:00	E 415	SYDC 1.1	<b>Invited Talks</b> Environment-induced Decoherence of Quantum States: An Introduction •Heinz-Peter Breuer
14:30	E 415	SYDC 1.2	Fighting Decoherence: Quantum Information Science with Trapped Ca <sup>+</sup> Ions T. Monz, K. Kim, A. Villar, P. Schindler, M. Chwalla, M. Riebe, C. F. Roos, H. Häffner, W. Hänsel, M. Hennrich, •R. Blatt
15:00	E 415	SYDC 1.3	Decoherence phenomena in molecular systems: Localization of matter waves & stabilization of chiral configuration states •Klaus Hornberger
15:30	E 415	SYDC 1.4	Decoherence of free electron waves and visualization of the transition from quantum- to classical-behaviour •Franz Hasselbach
16:30	E 415	SYDC 2.1	Coherence and the loss of it in molecular photoionization •Uwe Hergenhahn
17:00	E 415	SYDC 2.2	Decoherence in fermionic interferometers •Florian Marquardt
17:30	E 415	SYDC 2.3	Quantum diffusion in gravitational waves backgrounds •Serge Reynaud, Brahim Lamine, Rémy Hervé, Astrid Lambrecht
18:00	E 415	SYDC 2.4	Quantum coherence and decoherence in biological systems •Martin Plenio
14:00	E 415	SYDC 1	<b>Sessions</b> Decoherence in the Light of Modern Experiments I
16:30	E 415	SYDC 2	Decoherence in the Light of Modern Experiments II

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SYLL

13:30	A 001	SYLL 1.1	<b>Invited Talks</b> Ultrafast Fiber Laser Systems •Jens Limpert, Andreas Tünnermann
14:00	A 001	SYLL 1.2	Diodengepumpte Praseodym-Laser im sichtbaren und ultravioletten Spektralbereich •Teoman Gün, Nils-Owe Hansen, Klaus Petermann, Günter Huber
14:30	A 001	SYLL 1.3	Aktuelle Entwicklungen von Excimerlasern •Claus Strowitzki

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## Tuesday, 9.3.2010

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### SYLL

15:00	A 001	SYLL 1.4	Gepulste Faserverstärkersysteme im ps- und ns-Zeitbereich •Maik Frede, Matthias Hildebrandt, Sebastian Kanzelmeyer, Thomas Theeg, Jörg Neumann, Dietmar Kracht
15:30	A 001	SYLL 1.5	Yb:YAG thin disk laser system with high average and high peak power •Johannes Tümmeler, Robert Jung, Ingo Will, Horst Schönnagel, Wolfgang Sandner
16:30	A 001	SYLL 2.1	Laser application for nanophotonics and metamaterials •Carsten Reinhardt, Wei Cheng, Andrey B. Evlyukhin, Arseniy I. Kuznetsov, Andreas Seidel, Boris N. Chichkov
17:00	A 001	SYLL 2.2	Hochleistungs-Ultrakurzpuls laser als neues Werkzeug für die Fertigungstechnik und Oberflächenfunktionalisierung •Arnold Gillner, Stephan Eifel, Andreas Dohrn
17:30	A 001	SYLL 2.3	(Ultra-)Kurzpuls laser und Prozesse für Photovoltaikproduktion •Uwe Stute
18:00	A 001	SYLL 2.4	Anwendungen neuartiger abstimmbarer ps und fs-Faser laser im Sichtbaren und NIR •Wilhelm Kaenders, Thomas Hellerer, Frank Lison
			<b>Sessions</b>
13:30	A 001	SYLL 1	Lasersysteme
16:30	A 001	SYLL 2	Anwendungen

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

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## Wednesday, 10.3.2010

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### Plenary Talks

- 08:30 E 415 und E 214  
PV VI Attosecond electron dynamics in high harmonic generation and laser induced tunneling ionization  
•Ursula Keller
- 09:15 E 415 und E 214  
PV VII Tunable Quantum Gases in Optical Lattice Potentials  
•Hanns-Christoph Nägerl
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A

### Invited Talks

- 10:30 F 107 A 10.1 The promises and challenges of precision spectroscopy of cold molecules  
•Steven Hoekstra
- 14:00 F 303 A 12.1 Sequential two-photon double ionization of atoms in intense FEL radiation  
•Stephan Fritzsche, Alexei N. Grum-Grzhimailo, Elena V. Gryzlova, Nikolay M. Kabachnik
- 14:30 F 303 A 12.2 Few-body physics with ultracold atoms  
•Selim Jochim, Thomas Lompe, Martin Ries, Friedhelm Serwane, Philipp Simon, Andre Wenz, Gerhard Zürn
- 14:00 F 107 A 13.1 Testing strong-field CED and QED with intense laser fields  
•Antonino Di Piazza, Karen Z. Hatsagortsyan, Ben King, Christoph H. Keitel
- 16:30 F 303 A 14.1 Stochastic Resonance Effects in open Bose-Einstein condensates  
•Dirk Witthaut, Friederike Trimborn, Sandro Wimberger
- 17:00 F 303 A 14.2 CRASY: Correlated Rotational Alignment Spectroscopy  
•Thomas Schultz

### Sessions

- 10:30 F 303 A 9 Ultra-Cold Atoms, Ions and BEC II (with Q)
- 10:30 F 107 A 10 Precision Spectroscopy of Atoms and Ions I
- 10:30 B 302 A 11 Interaction with VUV and X-Ray Light I
- 14:00 F 303 A 12 Atomic Clusters I
- 14:00 F 107 A 13 Interaction with Strong or Short Laser Pulses I
- 16:30 F 303 A 14 Atomic Clusters II
- 16:30 F 107 A 15 Attosecond Physics I
- 16:30 A 320 A 16 Ultra-Cold Atoms: Single Atoms (with Q)

- 13:30 F 303 General Annual Meeting of the Atomic Physics Division
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DD

### Plenary Talk

- 10:30 F 102 DD 20.1 Die Vision und Realisierung eines Schülerlabors Astronomie und die Auswirkungen bei Schülern und Studenten im Bergischen Land  
•Michael Winkhaus (Träger des Georg-Kerschensteiner-Preises 2010)

### Invited Talk

- 11:45 F 102 DD 21.1 Biophysik in der neuen bayerischen Oberstufe  
•Melanie Nerding

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## Wednesday, 10.3.2010

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DD

### Sessions

10:30	F 102	DD 20	Hauptvortrag IV (Georg-Kerschensteiner-Preis)
11:45	F 102	DD 21	Hauptvortrag V
13:40	S1	DD 22	Sonstiges III
13:40	S2	DD 23	Lehr- und Lernforschung V (Dynamik)
13:40	S3	DD 24	Lehreraus- und -fortbildung II (Studien)
13:40	S4	DD 25	Sonstiges IV (Historisches)
13:40	S5	DD 26	Neue Konzepte IV (NOS)
15:00	S1	DD 27	Lehr- und Lernforschung VI (Experimentieren)
15:00	S2	DD 28	Lehr- und Lernforschung VII (Mathematisierung)
15:00	S3	DD 29	Lehreraus- und -fortbildung III (außerschulische Initiativen)
15:00	S4	DD 30	Neue Medien II
15:00	S5	DD 31	Neue Konzepte V (verschiedenes)

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K

### Invited Talk

14:00	F 442	K 3.1	Vakuum-Ultraviolett (VUV) Emission von flüssigem Argon bei Anregung mit Elektronenstrahlen. •Thomas Heindl, Thomas Dandl, Alexander Fedenev, Martin Hofmann, Reiner Krücken, Jochen Wieser, Andreas Ulrich
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### Session

14:00	F 442	K 3	EUV - Quellen und deren Anwendungen
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MO

### Invited Talks

10:30	F 142	MO 12.1	Ultrafast photochemistry of fulgides: Tuning the ring-opening reaction by vibrational excess energy •Simone Draxler, Thomas Brust, Markus Braun, Wolfgang Zinth
14:00	F 102	MO 14.1	Ultrafast Conformational Dynamics of Azopeptides •Josef Wachtveitl, Lisa Lorenz, Karsten Neumann, Heike Staudt, Ulrike Kusebauch, Luis Moroder
16:30	F 102	MO 16.1	Probing molecular chirality in a laser mass spectrometer: Circular dichroism and multiphoton ionization •Ulrich Boesl, Christoph Logé

### Sessions

10:30	F 142	MO 12	Photochemistry I
12:30	F 142	MO 13	Annual General Meeting of the Molecular Physics Division
14:00	F 102	MO 14	Femtosecond Spectroscopy II
14:00	F 142	MO 15	Photochemistry II
16:30	F 102	MO 16	Electronic Spectroscopy II
16:30	F 142	MO 17	Biomolecules

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MS

### Invited Talks

10:30	F 428	MS 4.1	Retrospektive Dosimetrie der I-131 Exposition nach dem Reaktorunfall von Tschernobyl mittels AMS-Messung von I-129 in Böden •Rolf Michel, Abdelouahed Daraoui, Jens Korntheuer, Monika Gorny, Dieter Jakob, Rüdiger Sachse, Vasily Alfimov, Hans-Arno Synal
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## Wednesday, 10.3.2010

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### MS

14:00	F 428	MS 5.1	Progress in Mass Spectrometry of Exotic Nuclei at the FRS-ESR Facility at GSI •Wolfgang Plaß
14:30	F 428	MS 5.2	Mass measurements on neutron-rich fission products and actinoids at Triga-Trap •J. Ketelaer, T. Beyer, M. Block, K. Eberhardt, M. Eibach, F. Herfurth, Sz. Nagy, C. Smorra, W. Nörtershäuser, K. Blaum
10:30	F 428	MS 4	Beschleunigermassenspektrometrie und Anwendungen I
14:00	F 428	MS 5	Präzisionsmassenspektrometrie und Anwendungen I
16:30	F 428	MS 6	Beschleunigermassenspektrometrie und Anwendungen II

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### P

#### Invited Talks

11:00	B 305	P 11.1	Intermittent plasma transport •Thomas Windisch, Olaf Grulke, Thomas Klinger
11:30	B 305	P 11.2	Structure formation in drift-wave turbulence •Peter Manz, Mirko Ramisch, Ulrich Stroth
12:00	B 305	P 11.3	Dynamic behaviour of dc discharges •Detlef Loffhagen, Florian Sigener
12:30	B 305	P 11.4	The numerical simulation of diffuse axial magnetic field vacuum arcs •Andreas Hauser, Werner Hartmann, Andreas Lawall, Roman Renz, Norbert Wenzel

#### Sessions

11:00	B 305	P 11	Invited Talks Windisch, Manz, Loffhagen, Hauser
14:30	B 302	P 12	Theory/Modelling II
14:30	B 305	P 13	Magnetic Confinement
16:30	B 302	P 14	Miscellaneous

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### Q

#### Sessions

10:30	A 310	Q 22	Quantum Effects: Entanglement and Decoherence II
10:30	A 320	Q 23	Quantum Effects: Light Scattering and Propagation II / QED I
10:30	E 001	Q 24	Quantum Gases: Mixtures and Spinor Gases
10:30	E 214	Q 25	Quantum Information: Quantum Communication I
10:30	F 128	Q 26	Laser Development: Solid State Lasers III
10:30	F 342	Q 27	Ultrashort Laser Pulses: Applications I
10:30	F 303	Q 28	Ultra Cold Atoms, Ions and BEC II (with A)
14:00	A 310	Q 29	Precision Measurements and Metrology III
14:00	A 320	Q 30	Quantum Effects: QED II / Interference and Correlations III
14:00	E 001	Q 31	Quantum Gases: Interaction Effects II
14:00	E 214	Q 32	Quantum Information: Atoms and Ions II
14:00	F 128	Q 33	Laser Development: Semiconductor Lasers / Nonlinear Effects II
14:00	F 342	Q 34	Ultrashort Laser Pulses: Applications II
16:30	A 310	Q 35	Precision Measurements and Metrology IV
16:30	A 320	Q 36	Ultracold Atoms: Single Atoms (with A)
17:45	A 320	Q 37	Matterwave Optics I
16:30	E 001	Q 38	Quantum Gases: Bosons III / Lattices I
16:30	E 214	Q 39	Quantum Information: Atoms and Ions III
16:30	F 128	Q 40	Quantum Information: Quantum Computing

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## Wednesday, 10.3.2010

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Q

16:30	F 342	Q 41	Ultrashort Laser Pulses: Applications III
13:30	A 310		Annual General Meeting of the Quantum Optics and Photonics Division

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UP

11:00	M 11	UP 3.1	<b>Invited Talks</b> Luftverkehr und Klima •Christiane Voigt
14:00	M 11	UP 4.1	Atmosphärische Fernerkundung mittels Infrarotspektroskopie •Johannes Orphal
16:30	M 11	UP 5.1	Antarctic Bottom Water formation in the Southern Ocean: Concepts and new results •Eberhard Fahrbach
17:00	M 11	UP 5.2	Modellierung von Zweiphasenströmung im Untergrund •Insa Neuweiler
11:00	M 11	UP 3	<b>Sessions</b> Greenhouse Gases and Climate
14:00	M 11	UP 4	Remote Sensing
16:30	M 11	UP 5	Ocean and Soil
17:45	M 11	UP 6	Aerosols
12:30	M 11		Annual General Meeting of the Environmental Physics Division

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SYLA

14:00	E 415	SYLA 1.1	<b>Invited Talks</b> How the laser happend •Herbert Welling
14:30	E 415	SYLA 1.2	The origin of the quantum theory of lasing •Fritz Haake
15:00	E 415	SYLA 1.3	Lasers for precision measurements •Thomas Udem
15:30	E 415	SYLA 1.4	Short, Ultra Short, Atto Short •Dietrich von der Linde
16:30	E 415	SYLA 2.1	Our Daily Life with Semiconductor Lasers •Dieter Bimberg
17:00	E 415	SYLA 2.2	Power to the Industry - the story of Laser upscaling •Reinhart Poprawe
17:30	E 415	SYLA 2.3	The Outstanding Qualities of Fiber Lasers and Thin Disk Lasers •Adolf Giesen
18:00	E 415	SYLA 2.4	Solid State Lasers:meeting the challenges of the 21st Century •Robert L. Byer
14:00	E 415	SYLA 1	<b>Sessions</b> 50 Years of Lasers I
16:30	E 415	SYLA 2	50 Years of Lasers II

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SYMP

14:00	A 001	SYMP 1.1	<b>Invited Talks</b> Cold atmospheric argon plasma significantly decreases bacterial load of chronic wounds in patients
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## Wednesday, 10.3.2010

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### SYMP

14:30	A 001	SYMP 1.2	<ul style="list-style-type: none"><li>•Georg Isbary, Wilhelm Stolz, Hans-Ulrich Schmidt, Tetsuji Shimizu, Bernd Steffes, Julia Zimmermann, Tetyana Nosenko, Wolfram Bunk, Roberto Monetti, Gregor Morfill</li></ul> Cold atmospheric plasma jet for potential dentistry use
15:00	A 001	SYMP 1.3	<ul style="list-style-type: none"><li>•Axel Schindler, Antje Lehmann, Stefan Rupf, Matthias Hannig</li></ul> Risk Assessment of the Application of a Plasma-Jet in Dermatology
15:30	A 001	SYMP 1.4	<ul style="list-style-type: none"><li>•Jürgen Lademann, Heike Richter, Alexa Patzelt, Axel Kramer, Peter Hinz, Klaus-Dieter Weltmann, Bernd Hartmann, Nils-Olaf Hübner, Olaf Lademann</li></ul> Plasmachemical Processes for Bioactive Titanium Implant Surfaces
16:30	A 001	SYMP 1.5	<ul style="list-style-type: none"><li>•Karsten Schröder, Martin Polak, Birgit Finke, Andreas Ohl, Ina Koban, Thomas Kocher, Barbara Nebe, Rainer Bader, Gerold Lukowski, Michael Schlosser, Klaus-Dieter Weltmann</li></ul> Pulsed electric field degrades melanoma cells
17:00	A 001	SYMP 1.6	<ul style="list-style-type: none"><li>•Uwe Pliquett, Richard Nuchitelli</li></ul> Pulsed electric field application as a cell disintegration and decontamination technique for food-, bio- and environmental engineering
17:30	A 001	SYMP 1.7	<ul style="list-style-type: none"><li>•Volker Heinz, Stefan Toepfl</li></ul> Effects of Microsecond- and Nanosecond-Pulsed-Electric-Fields on Plant Cells
18:00	A 001	SYMP 1.8	<ul style="list-style-type: none"><li>•Thomas Berghöfer, Bianca Flickinger, Christian Eing, Martin Sack, Petra Hohenberger, Peter Nick, Michael Pacher, Holger Puchta, Wolfgang Frey</li></ul> Electrochemotherapy - An efficient electroporation based tumor treatment
14:00	A 001	SYMP 1	<ul style="list-style-type: none"><li>•Damijan Miklavcic</li></ul> <b>Session</b> Plasma in Biology and Medicine (SYMP)

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

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20:00 E 415 and E 214  
PV VIII **Public Evening Talk (Entrance free)**  
Schwerkraftwellen – Sphärenmusik tatsächlich hören!  
•Bernard Schutz

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## Thursday, 11.3.2010

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### Plenary Talks

08:30 E 415 und E 214  
PV IX

Solar radiation management to limit climate change: An overview on proposed methods, their cooling potential, and possible side effects  
•Hauke Schmidt

09:15 E 415 und E 214  
PV X

“Molecular spectrometers” in the condensed phase: local THz-FIR response from femtosecond fluorescence  
•Nikolaus P. Ernsting

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A

### Invited Talks

10:30 B 302 A 19.1

Bound by reflection: Binding mechanisms of ultralong range Rydberg molecules  
•Weibin Li

14:00 F 303 A 20.1

The hydrated electron studied by fs-photoelectron spectroscopy  
•Andrea Lübcke, Franziska Buchner, Nadja Heine, Thomas Schultz, Ingolf Volkmar Hertel

14:30 F 303 A 20.2

Surface Quantum Optics: from Casimir-Polder forces to optical near-fields  
•Sebastian Slama

14:00 F 107 A 21.1

Acceleration of neutral atoms in strong short pulse laser fields  
•Ulli Eichmann

### Sessions

10:30 F 303 A 17

Ultra-Cold Atoms, Ions and BEC III (with Q)

10:30 F 107 A 18

Precision Spectroscopy of Atoms and Ions II

10:30 B 302 A 19

Ultra-Cold Plasmas and Rydberg System

14:00 F 303 A 20

Atomic Clusters III (with MO)

14:00 F 107 A 21

Interaction with Strong or Short Laser Pulses I

14:00 F 142 A 22

Cold Molecules (with MO)

16:30 Lichthof A 23

Poster II

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K

### Invited Talk

10:30 F 442 K 4.1

Biomimetic Sub-Wavelength Structures and Interfaces for Laser based Applications  
•Robert Brunner, Michael Helgert, Dennis Lehr, Marcel Schulze, Ernst-Bernhard Kley, Christoph Morhard, Claudia Pacholski, Joachim Spatz

### Sessions

10:30 F 442 K 4

Laseranwendungen und Lasermaterialbearbeitung I

14:00 F 442 K 5

Laseranwendungen und Lasermaterialbearbeitung II

16:30 Lichthof K 6

Poster

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MO

### Plenary Talk

10:30 F 142 MO 20.1

Speckle-Reduktion bei der Infrarotlaser-gestützten abbildenden Ferndetektion von TNT-Oberflächenkontaminationen  
•Jan Kaster (Laureate of the Georg-Simon-Ohm-Award 2010)

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**Thursday, 11.3.2010**

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**MO**

**Sessions**

10:30	F 102	MO 18	Cluster I
10:30	E 001	MO 19	Ultracold Molecules (with Q)
10:30	F 142	MO 20	Experimental Techniques I
14:00	F 102	MO 21	Femtosecond Spectroscopy III
14:00	F 142	MO 22	Cold Molecules II
14:00	F 303	MO 23	Atomic Clusters III (with A)
16:00	Lichthof	MO 24	Poster: Quantum Control
16:00	Lichthof	MO 25	Poster: Photochemistry
16:00	Lichthof	MO 26	Poster: Biomolecules
16:00	Lichthof	MO 27	Poster: Cluster
16:00	Lichthof	MO 28	Poster: Cold Molecules
16:00	Lichthof	MO 29	Poster: Experimental Techniques

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**MS**

**Sessions**

10:30	F 428	MS 7	Präzisionsmassenspektrometrie und Anwendungen II
16:00	Lichthof	MS 8	Poster

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**P**

**Invited Talks**

11:00	B 305	P 15.1	Hydrogen retention in tungsten - from laboratory experiments to ITER •Matej Mayer, Olga Ogorodnikova, Volker Rohde, Joachim Roth, pwi team, asdex upgrade team
11:30	B 305	P 15.2	Active control of tokamak instabilities by resonant magnetic perturbations •Yunfeng Liang
12:00	B 305	P 15.3	The latest experimental results for the edge transport barrier in tokamaks •Elisabeth Wolfrum, Bernd Wieland, Philip Schneider, Andreas Burckhart, Bernd Kurzan, Rainer Fischer, Thomas Puetterich, ASDEX Upgrade Team
12:30	B 305	P 15.4	Physik der Mikroplasmen •Volker Schulz-von der Gathen

**Sessions**

11:00	B 305	P 15	Invited Talks Mayer, Liang, Wolfrum, Schulz-von der Gathen
14:15	B 302	P 16	Plasma-Wall Interaction
14:15	B 305	P 17	Low Temperature Plasmas II
16:00	Lichthof	P 18	Poster: Diagnostics
16:00	Lichthof	P 19	Poster: Low Temperature Plasmas II
16:00	Lichthof	P 20	Poster: Magnetic Confinement
16:00	Lichthof	P 22	Poster: Theory/Modelling II
16:00	Lichthof	P 23	Poster: Miscellaneous

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**Q**

**Sessions**

10:30	A 310	Q 42	Precision Measurements and Metrology V
10:30	E 001	Q 43	Ultracold Molecules (with MO)
10:30	E 214	Q 44	Quantum Information: Concepts and Methods III

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## Thursday, 11.3.2010

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Q

10:30	F 303	Q 45	Ultra Cold Atoms, Ions and BEC III (with A)
10:30	F 128	Q 46	Laser Development: Nonlinear Effects III
11:15	F 128	Q 47	Photonics I
10:30	F 342	Q 48	Ultrashort Laser Pulses: Miscellaneous
14:00	A 310	Q 49	Precision Measurements and Metrology VI
15:15	A 320	Q 50	Micromechanical Oscillators I
14:00	E 001	Q 51	Quantum Gases: Fermions
14:00	E 214	Q 52	Quantum Information: Concepts and Methods IV / Photons and Nonclassical Light I
14:00	F 128	Q 53	Photonics II
14:00	F 342	Q 54	Laser Applications: Optical Measurement Technology I
16:00	Lichthof	Q 55	Poster II

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SYMS

<b>Invited Talks</b>			
10:30	A 001	SYMS 1.1	Mass spectrometric measurements of atmospheric trace gases and ions •Frank Arnold
11:00	A 001	SYMS 1.2	What do cosmogenic radionuclides in polar ice cores tell us? •Juerg Beer
11:30	A 001	SYMS 1.3	Aerosol-Massenspektrometrie: Techniken, Möglichkeiten, Grenzen •Frank Drewnick
12:00	A 001	SYMS 1.4	Organic compounds in the atmosphere: insights from Isotope Mass Spectrometry •Astrid Kiendler-Scharr, Iulia Gensch, Thorsten Hohaus, Beatrix Kammer, Werner Laumer
14:00	A 001	SYMS 2.1	Cosmogenic and anthropogenic radionuclides in the Earth Surface Sciences •Tibor Dunai
14:30	A 001	SYMS 2.2	Pushing the limits of high-precision radiocarbon measurements •Lukas Wacker, Georges Bonani, Irena Hajdas, Bernd Kromer, Hans-Arno Synal
15:00	A 001	SYMS 2.3	Precise and accurate analysis of U-series isotopes by MC-ICPMS •Denis Scholz
15:30	A 001	SYMS 2.4	Progress of inorganic mass spectrometry in environmental and life sciences •J. Sabine Becker
<b>Sessions</b>			
10:30	A 001	SYMS 1	Session I
14:00	A 001	SYMS 2	Session II

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SYQS

<b>Invited Talks</b>			
10:30	E 415	SYQS 1.1	Theoretical studies on quantum control and spectroscopy of ultrafast photoreactions •Regina de Vivie-Riedle, Judith Voll, Artur Nenov, Tiago Buckup, Jürgen Hauer, Marcus Motzkus
11:00	E 415	SYQS 1.2	Quantum Control Spectroscopy: Understanding photobiology with coherently controlled matter waves •Tiago Buckup, Jürgen Hauer, Judith Voll, Regina Vivie-Riedle, Marcus Motzkus

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## Thursday, 11.3.2010

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### SYQS

11:30	E 415	SYQS 1.3	Development of strategies for the optimal control in complex systems •Roland Mitric
12:00	E 415	SYQS 1.4	Mechanistic laser pulse parameterizations •Tobias Brixner
14:00	E 415	SYQS 2.1	Efficient control of electron dynamics •Matthias Wollenhaupt
14:30	E 415	SYQS 2.2	Exploring wavepacket dynamics under strong laser fields •Leticia Gonzalez
15:00	E 415	SYQS 2.3	Quantum Control Spectroscopy in Ultracold Atomic and Molecular Gases •Matthias Weidemüller

### Sessions

10:30	E 415	SYQS 1	Quantum Control Spectroscopy I
14:00	E 415	SYQS 2	Quantum Control Spectroscopy II

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### SYSA

### Invited Talks

10:30	A 320	SYSA 1.1	Cavity EIT with single atoms •Stephan Ritter, Martin Mücke, Eden Figueroa, Jörg Bochmann, Carolin Hahn, Celso J. Villas-Boas, Gerhard Rempe
11:00	A 320	SYSA 1.2	Optical detection of single trapped atoms with less than one spontaneous emission Jürgen Volz, Roger Gehr, Guilhem Dubois, Jérôme Estève, •Jakob Reichel
11:30	A 320	SYSA 1.3	Substantial interaction between a single atom and a focused light beam •Gleb Maslennikov, Syed Abdullah Aljunid, Brenda Chng, Florian Huber, Meng Khoon Tey, Timothy Liew, Valerio Scarani, Christian Kurtsiefer
12:00	A 320	SYSA 1.4	Exploring Quantum Physics with Single Neutral Atoms •Artur Widera
14:00	A 320	SYSA 2.1	Detecting single ultra cold atoms •Jörg Schmiedmayer
14:30	A 320	SYSA 2.2	Entanglement of two individual neutral atoms using Rydberg blockade •Tatjana Wilk, Alpha Gaëtan, Charles Evellin, Janik Wolters, Yevhen Miroshnychenko, Philippe Grangier, Antoine Browaeys

### Sessions

10:30	A 320	SYSA 1	Single Atoms I
14:00	A 320	SYSA 2	Single Atoms II

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9:00-17:00	Lichthof	Exhibition of scientific instruments and literature
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## Friday, 12.3.2010

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### Plenary Talks

08:30 E 415 und E 214  
PV XI

Transforming light with metamaterials  
•Vladimir Shalaev

09:15 E 415 und E 214  
PV XII

Two-Dimensional Electronic Spectroscopy: Coherence, Entanglement and Photosynthesis  
•Graham Fleming

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**A**

### Invited Talks

10:30 F 303 A 24.1

Interacting Bosonic and Fermionic Atoms in 3D Optical Lattice Potentials  
•Sebastian Will, Thorsten Best, Simon Braun, Philipp Ronzheimer, Ulrich Schneider, Michael Schreiber, Kin Chung Fong, Lucia Hackermüller, Immanuel Bloch

11:00 F 303 A 24.2

Dressing of Ground State Atoms by Rydberg States in a Ioffe-Pritchard Trap  
•Michael Mayle, Igor Lesanovsky, Peter Schmelcher

10:30 B 302 A 26.1

Electron-initiated Chemistry  
Slim Chourou, Valery Ngassam, Asa Larson, •Ann Orel

11:00 B 302 A 26.2

Astrophysically motivated electron collisions studies on M-shell iron ions  
•Michael Lestinsky, Oldrich Novotný, Michael Hahn, Dietrich Bernhardt, Stefan Schippers, Alfred Müller, Claude Krantz, Manfred Grieser, Roland Repnow, Andreas Wolf, Nigel Badnell, Daniel Wolf Savin

### Sessions

10:30 F 303 A 24

Atomic Clusters IV

10:30 F 107 A 25

Precision Spectroscopy of Atoms and Ions III

10:30 B 302 A 26

Electron Scattering and Recombination / Interaction of Matter with Ions (with MO)

14:00 F 303 A 27

Ultra-Cold Atoms, Ions and BEC IV / Interaction with VUV and X-Ray Light II (with Q)

14:00 F 107 A 28

Attosecond Physics II / Interaction with Strong or Short Laser Pulses III

14:00 B 302 A 29

Atomic Systems in External Fields II

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**MO**

### Sessions

10:30 F 102 MO 30

Quantum Control (with Q)

10:30 B 302 MO 31

Electron Scattering and Recombination / Interaction of Matter with Ions (with A)

14:00 F 142 MO 32

Experimental Techniques II

14:00 F 102 MO 33

Cluster II

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**MS**

### Session

10:30 F 428 MS 9

Ionenfallen und FT-IZR-MS, Moleküle, Cluster und Reaktionen

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## Friday, 12.3.2010

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**Q****Sessions**

10:30	A 310	Q 56	Quantum Information: Quantum Communication II
10:30	A 320	Q 57	Micromechanical Oscillators II
10:30	E 001	Q 58	Quantum Gases: Lattices II
10:30	E 214	Q 59	Quantum Information: Atoms and Ions IV / Photons and Nonclassical Light II
10:30	F 128	Q 60	Photonics III
10:30	F 342	Q 61	Ultrashort Laser Pulses: Applications IV
10:30	F 102	Q 62	Quantum Control (with MO)
14:00	A 310	Q 63	Quantum Effects: Entanglement and Decoherence III
14:00	A 320	Q 64	Matterwave Optics II
14:00	E 001	Q 65	Quantum Gases : Lattices III
14:00	E 214	Q 66	Quantum Information: Photons and Nonclassical Light III
14:00	F 128	Q 67	Photonics IV
14:00	F 342	Q 68	Laser Applications: Optical Measurement Technology II
14:00	F 303	Q 69	Ultra-Cold Atoms, Ions and BEC IV / Interaction with VUV and X-Ray Light II (with A)

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**SYDI****Invited Talks**

10:30	E 415	SYDI 1.1	Flash diffraction imaging with X-ray lasers •Janos Hajdu
11:00	E 415	SYDI 1.2	The hitchhikers guide to cryo-electron tomography – A voyage to the inner space of cells •Juergen Pitzko
11:30	E 415	SYDI 1.3	Far-Field Optical Nanoscopy by Optical Switching •Andreas Schönle, Stefan Hell
12:00	E 415	SYDI 1.4	Coherent Diffractive Imaging at LCLS •Henry Chapman
14:00	E 415	SYDI 2.1	High Harmonic Generation from Molecules: Prospects for ultra-fast imaging of molecular structure and dynamics •Jonathan Marangos
14:30	E 415	SYDI 2.2	Time-resolved diffraction from selectively aligned molecules •Ernst Fill, Martin Centurion, Peter Reckenthäler, Werner Fuß, Ferenc Krausz
15:00	E 415	SYDI 2.3	Imaging Molecules from Within: Ultra-fast Structure Determination of Molecules via Photoelectron Holography with Free Electron Lasers. •Joachim Ullrich, Faton Krasniqi, Bennaeur Najjari, Alexander Voitkiv, Sascha Epp, Daniel Rolles, Artem Rudenko, Lothar Strüder
15:30	E 415	SYDI 2.4	Ultrafast processes and imaging of clusters •Thomas Möller

**Sessions**

10:30	E 415	SYDI 1	Imaging of biological systems
14:00	E 415	SYDI 2	Diffractive Imaging of complex molecules in the gas-phase

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**SYPS****Invited Talks**

11:00	A 001	SYPS 1.1	Status of QED tests in heavy highly charged ions •Paul Indelicato
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## Friday, 12.3.2010

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### SYPS

11:30	A 001	SYPS 1.2	Penning trap mass spectrometry with highly charged ions •Szilard Nagy
12:00	A 001	SYPS 1.3	Diagnostic of Hot Dense Plasmas by Advanced XUV and X-ray Spectroscopy •Ingo Uschmann
12:30	A 001	SYPS 1.4	Measurements of masses and beta-lifetimes of stored exotic highly charged ions •Fritz Bosch
14:00	A 001	SYPS 2.1	Exciting and ionizing trapped highly charged ions with electrons and photons in an EBIT •José R. Crespo López-Urrutia
14:30	A 001	SYPS 2.2	Precision x-ray spectroscopy of intense laser-plasma interaction experiments •Nigel Woolsey
<b>Sessions</b>			
11:00	A 001	SYPS 1	Precision spectroscopy of highly ionized matter I
14:00	A 001	SYPS 2	Precision spectroscopy of highly ionized matter II

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