

Archives Laser Seminars 2005 - 2016

If there are any questions, please contact Daniela Hansen (hansenda@phys.eth.ch).

The Laser Seminar is a joint seminar between the Institute of Quantum Electronics (D-PHYS) and Laboratory of Physical Chemistry (D-CHAB).

Laser Seminars 2016

19.09.16

(Laser Seminar)

Christophe Moser

Laboratory of Applied Photonics Devices, EPFL Lausanne

Imaging with Multimode Fibers

Host: Ursula Keller, Ultrafast Laser Physics, IQE

29.08.16

(Laser Seminar)

Hanieh Fattahi

Max Planck Institute of Quantum Optics, Garching, Germany

Towards multi-TW, high-power, light transients

Host: Hans Jakob Wörner, Laboratory of Physical Chemistry

22.07.16

(Special Laser
Seminar)

Note: Friday, 11am

Jonathan Fan

Applied Nanophotonics Laboratory, Stanford University, USA

New Concepts In Reconfigurable Nanoantenna Systems

Host: Jérôme Faist, Quantum Optoelectronics, IQE

18.07.16

(Laser Seminar)

Location: HCI J6

Takuya Higuchi

Lehrstuhl für Laserphysik, Friedrich-Alexander-Universität Erlangen-Nürnberg,
Erlangen, Germany

Light-Field-Driven Currents in Graphene

Host: Hans Jakob Wörner, Laboratory of Physical Chemistry

05.07.16

(Special Laser Seminar)

Tuesday, 14.00

Laura Herz

Department of Physics, Clarendon Laboratory, University of Oxford, UK

Light-Harvesting Processes in Novel Hybrid Materials for Solar Cells

Host: Jerome Faist, Quantum Optoelectronics, IQE

20.06.16

(Laser Seminar)

Falk Eilenberger

Fraunhofer Institute for Applied Optics and Precision Engineering (IOF), Jena,
Germany

*Application of Nanophotonics at the IOF, Jena, Germany: a Review of Projects
and Development Capabilities*

Host: Rachel Grange, Optical Nanomaterial Group, IQE

08.06.16

Shaul Mukamel

UC Irvine, Professor of Chemistry, University Irvine, California, USA

Wednesday!

Location: HCI J6

(Laser Seminar / NCCR
MUST Seminar)

*Probing conical intersections in molecules by stimulated X-ray Raman,
photoelectron spectroscopy and at optical cavities*

Host: Hans Jakob Wörner, Laboratory of Physical Chemistry

07.06.16

16.00h!!!

Location: HIT E41.1
(Special Laser Seminar)

Sarath Gunapala

NASA - Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, USA

III-V Quantum Structures for Infrared Detection

Host: Jerome Faist, Quantum Optoelectronics, IQE

30.05.16

(Laser Seminar)

Caterina Vozzi

Dipartimento di Fisica, Politecnico di Milano, Milano, Italy

Attosecond probing of electron correlation in xenon by two-color driven high-order harmonic generation

Host: Hans Jakob Wörner, Laboratory of Physical Chemistry

20.05.16

(Laser Seminar / NCCR
MUST Seminar)

Friday!

Location: HCI J6

Anthony Starace

Department of Physics and Astronomy, University of Nebraska-Lincoln, USA

Applications of Elliptically Polarized, Few-Cycle Attosecond Pulses

Host: Hans Jakob Wörner, Laboratory of Physical Chemistry

02.05.16

(Laser Seminar / NCCR
MUST Seminar)

Christoph Hauri

Group Leader, Laser Group, Swiss XFEL, Paul Scherrer-Institute, Villigen, Switzerland

Manipulating magnetic and optical properties of condensed matter with intense Terahertz pulses

Host: Ursula Keller, Ultrafast Laser Physics, IQE

28.04.16

(Laser Seminar / NCCR
MUST Seminar)

Note: Thursday 15:00

Wim Leemans

Director of the Accelerator Technology and Applied Physics (ATAP) Division and Director of the BELLA (Berkeley Lab Laser Accelerator) Center at LBN, Berkeley, USA

Laser plasma accelerator R&D at Berkely Lab's BELLA Center

Host: Ursula Keller, Ultrafast Laser Physics, IQE

13.04.16

(Laser Seminar / NCCR
MUST Seminar)

Note: HCI J3

Ivan Powis

Professor of Chemical Physics, University of Nottingham, Nottingham, UK

Emerging Directions in Chiral Molecule Photoionization Host:

Hans Jakob Wörner, Laboratory of Physical Chemistry

04.04.16

(Laser Seminar / NCCR
MUST Seminar)

Christian Rüegg

Head of Laboratory for Neutron Scattering and Imaging (LNS), Paul Scherrer-
Institute, Villigen, Switzerland

Quantum Magnets and Criticality in and out of Equilibrium

Hosts: Ursula Keller, Ultrafast Laser Physics, IQE and
Steve Johnson, Ultrafast Dynamics, IQE

21.03.16

(Laser Seminar / NCCR
MUST Seminar)

Ming Shi

Spectroscopy of Novel Materials Group, Paul Scherrer-Institute, Villigen,
Switzerland

ARPES on High-Temperature Superconductors & Topological Materials

Host: Ursula Keller, Ultrafast Laser Physics, IQE

14.03.16

(Laser Seminar)

John Dudley

Laboratoire d'Optique P.M. Duffieux, Université de Franche-Comté, Besançon,
France

1000 Years of Optics, 50 Years of Solitons

Host: Ursula Keller, Ultrafast Laser Physics, IQE

07.03.16

(Laser Seminar)

Jörg Standfuss

Group Leader, Biomolecular Research, Paul Scherrer Institute, Villigen, Switzerland

*Free Electron Laser Science meets Biology: From Molecular Snapshots to Molecular
Movies*

Host: Ursula Keller, Ultrafast Laser Physics, IQE

29.02.16

(Laser Seminar / NCCR
MUST Seminar)

Charles K. Rhodes

Laboratory for X-Ray Microimaging and Bioinformatics, Department of Physics,
University of Illinois at Chicago, USA

Rewriting the Rules Governing High Intensity Interactions of Light with Matter

Host: Ursula Keller, Ultrafast Laser Physics, IQE

08.02.16

HCI H 2.1

(Laser Seminar)

Mihail Petrov

Laboratory of Nanophotonics and Metamaterials, University of Informational
Technologies, Mechanics, and Optics,
Saint-Petersburg, Russia

All-dielectric nanostructures for light control and emission enhancement

Host: Rachel Grange, Optical Nanomaterial Group, IQE

25.01.16

HPT C103

(Laser Seminar / NCCR
MUST Seminar)

Thomas Pfeifer

Max-Planck-Institut für Kernphysik, Heidelberg, Germany

*Fundamental dynamics of small quantum systems probed and controlled by low
and high frequency (laser) interactions*

Host: Ursula Keller, Ultrafast Laser Physics, IQE

Laser Seminar 2015

07.12.15

(Laser Seminar)

Uwe Morgner

Institute of Quantum Optics, Leibniz Universität Hannover, Germany

Nonlinear Optics with few-cycle pulses

Host: Ursula Keller, Ultrafast Laser Physics, IQE

30.11.15

(Laser Seminar)

Sophie Brasselet

Institut Fresnel, Marseille, France

*Polarized fluorescence and nonlinear microscopy for structural bio-imaging
and nanophotonics*

Host: Rachel Grange, Optical Nanomaterial Group, IQE

16.11.15

(Laser Seminar / NCCR
MUST Seminar)

Robert Boge

ELI Beamlines, Institute of Physics, Prague, Czech Republic

ELI: Providing Unprecedented Laser Technology to the Research Community

Host: Ursula Keller, Ultrafast Laser Physics, IQE

12.10.15

(Laser Seminar / NCCR
MUST Seminar)

Alexandra Landsman

Max-Planck Institut, Dresden, Germany

Resonant interaction between ultra-short laser pulses and matter

Host: Ursula Keller, Ultrafast Laser Physics, IQE

09.10.15

Friday, 10am - 11am
(Laser Seminar)

Marcos Dantus

Department of Chemistry, Michigan State University, East Lansing, USA

Probing and controlling laser-matter interactions using ultrashort shaped pulses

Host: Ursula Keller, Ultrafast Laser Physics, IQE

05.10.15

(Laser Seminar / NCCR
MUST Seminar)

Darius Torchinsky

Department of Physics, Temple University, Philadelphia, USA

Revealing hidden symmetry breaking in strongly correlated matter

Host: Steve Johnson, Ultrafast Dynamics, IQE

14.09.15

(Laser Seminar / NCCR
MUST Seminar)

Eva Lindroth

Department of Physics, Stockholm University, Alba Nova University Center,
Stockholm, Sweden

Resonances in photoionization cross sections and delays

Host: Ursula Keller, Ultrafast Laser Physics, IQE

31.08.15

(Laser Seminar / NCCR
MUST Seminar)

Jens Limpert

Fiber and Waveguide Lasers, Institute of Applied Physics, Friedrich-Schiller-
Universität Jena, Germany

Coherent combination of fiber amplified ultrashort laser pulses

Host: Ursula Keller, Ultrafast Laser Physics, IQE

17.08.15

(Laser Seminar)

Tran Trung Luu

Max-Planck Institut für Quantenoptik, Garching, Germany

Extreme ultraviolet high harmonic generation and spectroscopy of solids

Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC

10.08.15
(Laser Seminar)

Dirk Sutter
TRUMPF Laser GmbH + Co, Schramberg, Germany
Industrial Ultrafast Disk Lasers

Host: Ursula Keller, Ultrafast Laser Physics, IQE

16.06.15
Tuesday!
(Laser Seminar)

Jean-Michel Chauveau
CRHEA - Centre de Recherche sur l'HétéroEpitaxie et ses Applications, Valbonne, France
Nonpolar and semipolar (Zn,Mg)O/ZnO quantum heterostructures

Host: Jerome Faist, Quantum optoelectronics, IQE

18.05.15
(Laser Seminar)

Manfred Lein
Institut für Theoretische Physik, Leibniz Universität Hannover, Hannover, Germany
Two-colour strong-field ionization

Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC

11.05.15
(Laser Seminar)

Markus Pollnau
KTH, Royal Institute of Technology, Kista/Stockholm, Sweden
The Laser Linewidth

Host: Rachel Grange, Optical Nanomaterial Group, IQE

30.04.15
Thursday, 13.00
HPT F18
(Laser Seminar)

Bernhard Lendl
Vienna University of Technology, Institute of Chemical Technologies and Analytics
Quantum Cascade Lasers: Opening Opportunities for Analytical Chemistry

Host: Jerome Faist, Quantum optoelectronics, IQE

16.04.15
Thursday, 16.45
HPT E13
(Laser Seminar)

Erwin Bente
Department of Electrical Engineering, COBRA Research Institute, Technische Universiteit Eindhoven, Netherlands
Integrated Indium Phosphide based modelocked lasers

Host: Ursula Keller, Ultrafast Laser Physics, IQE

25.03.15
Wednesday, 14.00!
(Laser Seminar)

Bradley J. Siwick
Center for the Physics of Materials, McGill University, Montreal Canada
Structure and Dynamics with Ultrafast Electron Microscopes

Host: Steve Johnson, Ultrafast Dynamics, IQE

16.03.15
(Laser Seminar)

Hui Cao
Department of Applied Physics, Yale University, USA
Random Lasers

Host: Ursula Keller, Ultrafast Laser Physics, IQE

02.03.15
(Laser Seminar / NCCR
MUST Seminar)

Wolfgang Sandner
Director General and CEO
ELI-DC International Association AISBL, Zeuthen, Germany

The Extreme Light Infrastructure ELI: Europe on its way to build the world's first international laser user facility

Host: Ursula Keller, Ultrafast Laser Physics, IQE

28.01.15
Wednesday!
(Laser Seminar)

Tobias Kippenberg
Ecole Polytechnique Fédérale de Lausanne (EPFL), K-Lab, Lausanne
The Science of Optical Microresonators: Chipscale Optical Frequency Combs

Host: Ursula Keller, Ultrafast Laser Physics, IQE

Laser Seminar 2014

10.12.14
**Wednesday, 9.00 HCI
E241**
(Laser Seminar/ NCCR
MUST Seminar)

Nora Kling
Max-Planck Institut für Quantenoptik, Garching
Phase tagging for exploring the carrier-envelope phase control of ionization and dissociation

Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC

08.12.14
(Laser Seminar/ NCCR
MUST Seminar)

Adriana Palfy
Max-Planck-Institut für Kernphysik, Theoretical Quantum Dynamics and Quantum Electrodynamics, Heidelberg

Nuclear and atomic quantum dynamics with strong optical, x-ray and gamma-ray fields

Host: Ursula Keller, Ultrafast Laser Physics, IQE

05.12.14
Friday, 14.00
(Laser Seminar/ NCCR
MUST Seminar)

Shunsuke A. Sato
University of Tsukuba, Department of Physics, Tsukuba, Japan
Microscopic simulation for laser-induced electron dynamics in solids

Host: Ursula Keller, Ultrafast Laser Physics, IQE

- 03.11.14**
(Laser Seminar)
- Yong Liang**
University of Kyoto, Quantum Optoelectronics Laboratory, Japan
Photonic crystal surface emitting lasers (PCSELS)
Host: Jerome Faist, Quantum optoelectronics, IQE
- 29.09.14**
(Laser Seminar/ NCCR
MUST Seminar)
- Mauro Nisoli**
Politecnico di Milano, Dipartimento di Fisica, Milano, Italy
Charge migration in molecules
Host: Ursula Keller, Ultrafast Laser Physics, IQE
- 26.09.14**
Friday, 16.45h, HCI J6
(Laser Seminar/ NCCR
MUST Seminar)
- Toshinori Suzuki**
Kyoto University, Departement of Chemistry, Kyoto, Japan
Ultrafast photoelectron spectroscopy of gases and liquids
Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC
- 15.09.14**
(Laser Seminar/ NCCR
MUST Seminar)
- Fernando Martin**
Departamento de Quimica, Universidad Autonoma de Madrid, Madrid, Spain
Electron and nuclear dynamics in the photoionization of molecules
Host: Ursula Keller, Ultrafast Laser Physics, IQE
- 08.09.14**
(Laser Seminar)
- Emad F. Aziz**
Helmholtz-Zentrum Berlin für Materialien und Energie & Freie Universität Berlin,
Fachbereich Physik, Berlin, Germany
Electronic interaction and electron dynamics in solution
Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC
- 25.08.14**
(Laser Seminar)
- François Légaré**
Advanced Laser Light Source (ALLS), INRS, Canada
Ultrafast X-ray science at ALLS
Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC
- 30.07.14**
(Laser Seminar)
NOTE: Wednesday!
- Dave Welch**
Infinera Corporation, Sunnyvale, USA
Photonic integration and the impact on telecommunication applications
Host: Clara Saraceno, Ultrafast Laser Physics, IQE
- 23.06.14**
(Laser Seminar)
- Daniel Rytz**
Forschungsinstitut für mineralische und metallische Werkstoffe,
Edelsteine/Edelmetalle (FEE) GmbH, Idar-Oberstein, Germany
Crystal Growth at F.E.E.: Yb-doped laser hosts, Faraday rotators and UV NLO materials
Host: Ursula Keller, Ultrafast Laser Physics, IQE

- 16.06.14**
(Laser Seminar)
Note: 11.00
- Elsa Abreu**
Department of Physics, Boston University
Insulator-to-metal conductivity dynamics in vanadates and nickelates

Host: Steve Johnson, Ultrafast Dynamics Group, IQE
- 13.06.2014**
(Laser seminar)
- Romain Peretti**
INL Université de Lyon, France
Classical light matter interaction at nanoscales
Host: Jerome Faist, Quantum optoelectronics, IQE
- 10.06.14**
(Laser Seminar)
NOTE: Tuesday!
- Yoann Pertot**
Institut national de la recherche scientifique (INRS), Québec, Canada

Efficient high harmonic generation from under-dense ablation plasma: complex generation mechanisms involving ions to molecules
Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC
- 26.05.14**
(Laser Seminar/ NCCR
MUST Seminar)
- Ludger Wöste**
Freie Universität Berlin, Institut für Experimentalphysik, Berlin, Germany
Fundamentals and Applications of Plasma Filaments
Host: Ursula Keller, Ultrafast Laser Physics, IQE
- 23.05.14**
(Laser Seminar/ NCCR
MUST Seminar)
Note: HCI J6
- Thomas Fennel**
Universität Rostock, Professor Theoretische Physik, Rostock, Germany
Attosecond dynamics of clusters
Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC
- 22.05.14**
11.00
(Laser Seminar)
Note: HIL E9
- Laura Cattaneo**
Radboud University Nijmegen, Institute of Molecules and Materials (IMM),
Nijmegen, Netherlands

Liquid Crystal are slow...or not?
Host: Ursula Keller, Ultrafast Laser Physics, IQE
- 12.05.14**
16.45
(Laser Seminar/ NCCR
MUST Seminar)
NOTE: HCI J7
- Shaul Mukamel**
UC Irvine, Professor of Chemistry, University Irvine, California, USA
Multidimensional Spectroscopy of Molecules with Classical and Quantum Light;
From NMR to X-Rays
Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC

- 08.05.14**
09.00-12.00
(FAST Lecture)
NOTE: HCI G 3
- André Bandrauk**
Professor of Theoretical Chemistry, Département de Chimie, Université de Sherbrooke, Québec, Canada
- Molecules in intense laser fields: II Linear to Circular Polarization "Attosecond" Pulses-Generation and Applications
- Host: Ursula Keller, Ultrafast Laser Physics, IQE
- 07.05.14**
13.00-16.00
(FAST Lecture)
NOTE: HPT C 103
- André Bandrauk**
Professor of Theoretical Chemistry, Département de Chimie, Université de Sherbrooke, Québec, Canada
- Molecules in intense laser fields: I from Schroedinger to Dirac to Maxwell
- Host: Ursula Keller, Ultrafast Laser Physics, IQE
- 30.04.14**
(Laser Seminar/ NCCR MUST Seminar)
NOTE: Wednesday
- Stefan Pabst**
Center for Free-Electron Laser Science, Hamburg
- Many-body physics on an ultrafast time scale
- Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC
- 22.+ 25.04.14**
(FAST Lecture)
NOTE: HCI D8
- Martina Havenith**
Professor of Physical Chemistry, Institute for Physical Chemistry II, Ruhr-University Bochum
- Host: Ursula Keller, Ultrafast Laser Physics, IQE
- 14.04.14**
(Laser Seminar)
- Meike Stöhr**
Zernike Institute for Advanced Materials, University of Groningen, The Netherlands
- Characterization and modification of structural and electronic surface properties
- Host: Ursula Keller, Ultrafast Laser Physics, IQE
- 21.03.14**
(Special Laser Seminar)
NOTE: HCI J7
- Richard N. Zare**
Professor of Chemistry, Stanford University, California USA
- Detecting Reaction Intermediates in Solution and Guiding Cancer Surgery Using Mass Spectrometry
- Host: Martin Quack, Laboratorium für Physikalische Chemie
- 14.02.14**
(Friday, Special Laser Seminar)
- Tomas Zimmermann**
Laboratory of theoretical physical chemistry, EPFL
- "On the fly" semiclassical calculation of nonadiabatic spectra of pyrazine
at 14:00, ETH Zurich, Hönggerberg Campus, HIT F12
- Host: Ursula Keller, Ultrafast Laser Physics, IQE
- 03.02.14**
(Laser Seminar/ NCCR MUST Seminar)
- Richard Taieb**
Université de Sorbonne, Paris, France
- Ab initio quantum study of the dynamics of excited SO₂ molecule
- Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC

13.01.14
(Laser Seminar/ NCCR
MUST Seminar)

Christoph Heyl
Lund University, Sweden
Noncollinear Optical Gating
Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC

13.01.14
(Monday, Special Laser
Seminar)

Camille Ndebeka-Bandou
Laboratoire Pierre Aigrain, Ecole Normale Supérieure, Paris, France
Free carrier absorption and non-radiative escape in disordered quantum cascade structures
at 11:00, ETH Zurich, Hönggerberg Campus, HPF G6
Host: Jérôme Faist, Quantum Optoelectronics Group, IQE

06.01.14
(Laser Seminar/ NCCR
MUST Seminar)

Thomas Wolf
Pulse Institute, Stanford University and SLAC National Accelerator Laboratory, USA
Studying ultrafast processes in organic molecules:
From UV to XUV and combining experiment with theory
Host: Ursula Keller, Ultrafast Laser Physics, IQE

Laser Seminar 2013

11.12.13
(Wednesday, Special Laser
Seminar)

Roberto D. Merlin
University of Michigan, Ann Arbor, USA
Ultrafast Science meets Condensed Matter Physics
at 14:00, ETH Zurich, Hönggerberg Campus, HPF G6
Host: Steve Johnson, Ultrafast Dynamics Group, IQE

09.12.13
(Laser Seminar)

Mircea Guina
Tampere University of Technology, Optoelectronics Research Centre (ORC),
Tampere, Finland
New frontiers in developing III-As/Sb/Bi heterostructures for ultrafast optics applications
Host: Ursula Keller, Ultrafast Laser Physics, IQE

27.11.13
(Wednesday, Special Laser
Seminar)

Takunori Taira
IMS and SOKENDAI, Laser Research Center for Molecular Science, Institute for
Molecular Science (IMS). Okazaki, Japan.
Laser Ignitions by Giant micro-photonics
at 15:15, ETH Zurich, Hönggerberg Campus, HPF G6
Host: Ursula Keller, Ultrafast Laser Physics, IQE

25.11.13 (Laser Seminar)	Hatice Altug School of Engineering, Ecole Polytechnique Fédérale, Lausanne Integrated NanoPlasmonic Systems for Ultrasensitive Spectroscopy and High-Throughput Bio-detection <i>Host: Jérôme Faist, Quantum Optoelectronics Group, IQE</i>
18.11.13 (Laser Seminar/ NCCR MUST Seminar)	Manfred Lein Institut für Theoretische Physik, Leibnitz Universität Hannover, Hannover, Germany Science with strong laser fields: the Keldysh tunneling time and the photoelectron circular dichroism <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i>
11.11.13 (Special Laser Seminar/ NCCR MUST / FAST Initiative kick-off meeting)	Ursula Keller Ultrafast Laser Physics, Institute of Quantum Electronics, ETH Zurich FAST Initiative kick-off meeting from 15:00 - 18:00, ETH Zurich, Hönggerberg, HPF G-6 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i> Call and concept Research Infrastructures Campus Hönggerberg
16.09.13 (Monday, Special Laser Seminar/Mini-Symposium)	Frans J.M. Harren Radboud University, Nijmegen, NL Trace Gas Detection in Life Science Sune Svanberg Lund University, Lund, Sweden Laser spectroscopy applied to environmental and medical research <i>Host: Department of Physics & Institute of Quantum Electronics</i>
11.09.13 (Wednesday, Special Laser Seminar)	Zou Xingquan Lehigh University, Bethlehem, PA, USA Ultrafast spectroscopy of nanomaterials at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Steve Johnson, Ultrafast Dynamics Group, IQE</i>
21.08.13 (Wednesday, Special Laser Seminar)	Jonathan Saari McGill University, Montreal, Canada Unravelling the excitonics of semiconductor nanocrystals: An effort in guiding optoelectronic device design through spectroscopy at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Steve Johnson, Ultrafast Dynamics Group, IQE</i>
22.07.13 (Monday, Special Laser Seminar)	A. Douglas Stone Department of Applied Physics, Yale University, New Haven, Connecticut A Scattering Approach to Complex Laser Systems and Coherent Perfect Absorption at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6 Host: Jérôme Faist, Quantum Optoelectronics Group, IQE

<p>17.07.13 (Wednesday, Special Laser Seminar)</p>	<p>Thomas Schwarzbäck Institut für Halbleiteroptik und Funktionelle Grenzflächen IHFG, Universität Stuttgart, Stuttgart, Germany Epitaxy of AlGaInP based semiconductor disk lasers: wells, dots, frequency doubling and mode locking <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>05.07.13 (Friday, Special Laser Seminar)</p>	<p>Jacob Khurgin Johns Hopkins University, Baltimore MD 21218, USA How small can one make the "nano" in a nanolaser? at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Jérôme Faist, Quantum Optoelectronics Group, IQE</i></p>
<p>10.06.13 (Laser Seminar/ NCCR MUST Seminar)</p>	<p>Ingo Barth Max-Born Institut, Berlin, Germany Spin polarization and rotating hole dynamics induced by nonadiabatic tunneling in circularly polarized laser fields <i>Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC</i></p>
<p>07.06.13 (Friday, Special Laser Seminar/ Theoretical Chemistry, Molecular Spectroscopy and Dynamics / SCS Lectureship 2013)</p>	<p>W. Carl Lineberger University of Colorado and JILA, Boulder (USA) Energy Flow in Photodissociated ICN-Ar_n and $\text{ICN-(CO}_2)_n$: Small molecules trying to act large at 15:15, ETH Zurich, Hönggerberg Campus, HCI J4 <i>Host: Martin Quack, Group of Molecular Kinetics and Spectroscopy, LPC</i></p>
<p>31.05.13 (Friday, Special Laser Seminar/ Seminar on Theoretical Chemistry, Molecular Spectroscopy and Dynamics)</p>	<p>Paolo de Natale Istituto Nazionale di Ottica-CNR and LENS, Firenze, Italy Harnessing molecules with metrological sources at 16:15, ETH Zurich, Hönggerberg Campus, HCI J3 <i>Host: Martin Quack, Group of Molecular Kinetics and Spectroscopy, LPC</i></p>
<p>28.05.13 (Tuesday, Special Laser Seminar)</p>	<p>Johann Peter Reithmaier Technische Physik, Institute of Nanostructure Technologies and Analytics (INA), CINSaT, University of Kassel, Germany. Recent Progress on 1.5 μm QD Lasers for High-Capacitance Optical Links <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>27.05.13 (Laser Seminar/ NCCR MUST Seminar)</p>	<p>Bill Pedrini Paul Scherrer Institut, Villigen PSI Cross-correlations in X-ray structure determination and other experimental methods <i>Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC</i></p>

<p>23.05.13 (Thursday, Special Laser Seminar)</p>	<p>Abraham Nitzan School of Chemistry, Tel Aviv University, Tel Aviv, Israel Optical and magnetic phenomena at molecules-metal interfaces at 15:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>13.05.13 (Laser Seminar/ NCCR MUST Seminar)</p>	<p>Bhargava Ram LaserLab, Vrije Universiteit, Amsterdam, The Netherlands Probing molecular chirality with a femtosecond reaction microscope <i>Host: Hans Jakob Würner, Laboratorium für Physikalische Chemie, LPC</i></p>
<p>06.05.13 (Laser Seminar/ NCCR MUST Seminar)</p>	<p>Alfred Maquet Laboratoire de Chimie Physique-Matière et Rayonnement Université Pierre et Marie Curie, (Unité Mixte de Recherche du CNRS, UMR 7614), Paris Cedex, France Attosecond delays in photoionization <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>29.04.13 (Laser Seminar/ NCCR MUST Seminar)</p>	<p>Thomas Schultz Max-Born Institut, Berlin Combining High-Resolution and Ultrafast Measurements <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>29.04.13 (Monday, Special Laser Seminar)</p>	<p>Frank Tittel Rice Laser Science Group, Rice University, Houston, TX Mid-Inf Mid-Infrared semiconductor laser based trace gas sensor technologies: recent advances and applications at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Jérôme Faist, Quantum Optoelectronics Group, IQE</i></p>
<p>22.04.13 (Monday, Special Laser Seminar/ Seminar on Special Problems of Physical Chemistry)</p>	<p>Juergen Eckert Department of Chemistry, University of South Florida, Tampa Interactions of Molecular Hydrogen in Porous Materials: From Physics to Chemistry at 17:15, ETH Zurich, Hönggerberg Campus, HCI J6 <i>Host: Martin Quack, Group of Molecular Kinetics and Spectroscopy, LPC</i></p>
<p>17.04.13 (Wednesday, Special Laser Seminar)</p>	<p>Sara Cibella CNR-IFN Roma, Rome, Italy Detectors for photonics based on hotspot mechanism in (micro and nano structured) superconducting films at 10:30, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Jérôme Faist, Quantum Optoelectronics Group, IQE</i></p>

<p>16.04.13 (Tuesday, Special Laser Seminar)</p>	<p>Weidong Chen Laboratoire de Physicochimie de l'Atmosphère, Université du Littoral de Côte d'Opale, Dunkerque, France Photonic Sensing of Key Reactive Atmospheric Trace Molecules: Challenges and Opportunities <i>Host: Markus Sigrist, Institute for Quantum Electronics</i></p>
<p>12.04.13 (Friday, Special Laser Seminar)</p>	<p>Matteo Negro CNR Institute for Photonics and Nanotechnologies & Physics Department, Politecnico di Milano, Milan, Italy High order harmonic generation driven by a mid-infrared laser source: a tool for attosecond science and molecular spectroscopy <i>Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC</i></p>
<p>05.04.13 (Friday, Special Laser Seminar)</p>	<p>Rachel Grange Institute of Applied Physics, Friedrich Schiller University, Jena, Germany Nonlinear Optics in Semiconductor and Oxide Nanoparticles for Far-Field Imaging Applications at 14:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Jérôme Faist, Quantum Optoelectronics Group, IQE</i></p>
<p>27.03.13 (Wednesday, Special Laser Seminar)</p>	<p>Laurenz Rettig Fakultät für Physik, Universität Duisburg-Essen, Duisburg Germany Time- and angle-resolved photoemission spectroscopy of correlated electron materials at 15:15, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Steve Johnson, Ultrafast Dynamics Group, IQE</i></p>
<p>18.03.13 (Laser Seminar/ NCCR MUST Seminar)</p>	<p>Bill Pedrini Paul Scherrer Institut, Villigen PSI Cross-correlations in X-ray structure determination and other experimental methods <i>Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC</i> Due to the unexpected illness of Dr. Bill Pedrini from the Paul Scherrer Institut, Villigen, there will be no Laser Seminar today. His seminar will be postponed to a later date.</p>
<p>11.03.13 (Laser Seminar/ NCCR MUST Seminar)</p>	<p>Johan Mauritsson Department of Physics, Atomic Physics, Lund University, Sweden High-harmonic generation using multi-color light fields <i>Host: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC</i></p>
<p>04.03.13 (Laser Seminar)</p>	<p>Alexander Gaeta Center for Nanoscale Systems, School of Applied and Engineering Physics, Cornell University, Ithaca, NY Extreme nonlinear photonics on chip <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>

21.01.13
(Laser Seminar)

Kent D. Choquette

Electrical and Computer Engineering Department, University of Illinois, Urbana, USA

Laser Sources for the Information Age

Host: Ursula Keller, Ultrafast Laser Physics, IQE

15.01.13 +
16.01.13
(Laser Seminar/ NCCR
MUST Seminar/ETH-Fast
Seminar)

Robin Santra

Center for Free-Electron Laser Science, DESY, Hamburg +

Department of Physics, University of Hamburg

Theory of interacting electrons in electromagnetic fields

ETH Zurich, Hönggerberg Campus, HCI J4

15.01.13, 09:15 - 12:00 + 13:15 - 14:00

16.01.13, 09:15 - 12:00 + 13:15 - 15:00

Host: Ursula Keller, Ultrafast Laser Physics, IQE

07.01.13
(Laser Seminar/ NCCR
MUST)

Patricia Hunt

Department of Chemistry, Imperial College of Science, Technology and Medicine, South Kensington, London

Quantum chemistry for modelling bio-butanol combustion

at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6

Hosts: Hans Jakob Wörner, Laboratorium für Physikalische Chemie, LPC and Ursula Keller, Ultrafast Laser Physics, IQE

Laser Seminar 2005-2012

14.12.12
(Friday, Special Laser
Seminar)

Patrick Georges

Directeur de Recherche au CNRS, Laboratoire Charles Fabry de l'Institut d'Optique, Campus Polytechnique, Palaiseau, FR

Coherent combining of ultrashort ytterbium fiber and bulk amplifiers

at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Ursula Keller, Ultrafast Laser Physics, IQE

10.12.12
(Laser Seminar/ NCCR
MUST Seminar)

Jon Marangos

Lockyer Chair in Physics, Imperial College London

Controlling recollisions to extract attosecond molecular dynamics & ionization dynamics in CO₂

Host: Ursula Keller, Ultrafast Laser Physics, IQE

03.12.12
(Laser Seminar)

Sukhdeep Dhillon

Laboratoire Pierre Aigrain, Ecole Normale Supérieure, Paris

THz Quantum Cascade Lasers - Resonant Optical Nonlinearities

Host: Jérôme Faist, Quantum Optoelectronics Group, IQE

<p>09.11.12 (Special Friday Laser Seminar)</p>	<p>Andrey G. Stepanov GAP-Biophotonics, Université de Genève "Recent progress in generation of high-energy ultra-short THz pulses" <i>Host: Steve Johnson, Ultrafast Dynamics Group, IQE</i></p>
<p>01.11.-02.11.12 (Laser Seminar/ NCCR MUST Seminar/ETH-Fast Seminar)</p>	<p>Joseph Eberly University of Rochester, Department of Physics and Astronomy, Rochester, NY Lecture 1: "What is the SENE approach ..." Lecture 2: "Understanding light polarization ..." ETH Zurich, Hönggerberg Campus, 01.11.12, 17:00 - 19:00, HIT H 42 02.11.12, 14:00 - 16:00, HPK D 24.2 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>29.10.-01.11.12 (Laser Seminar/ NCCR MUST Seminar/ETH-Fast Seminar)</p>	<p>Anders Nilsson Stanford University + SLAC National Accelerator Laboratory, Menlo Park, CA USA "X-ray and electron spectroscopy" ETH Zurich, Hönggerberg Campus, 29.10.12, 10:00 - 12:00, HIT H 51 30.10.12, 17:00 - 19:30, HPV G 5 31.10.12, 18:15 - 20:30, HPV G 5 01.11.12, 09:00 - 11:00, HPL D 34 <i>Host: Jeroen A. van Bokhoven, Heterogeneous Catalysis, ICB</i></p>
<p>29.10.12 (Laser Seminar)</p>	<p>Martin Dawson Director of Research, Institute of Photonics, University of Strathclyde, Wolfson Centre, 106 Rottenrow, Glasgow, UK "GaN micro-LEDs for applications in hybrid inorganic/organic optoelectronics, instrumentation and optical communications" at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>29.10.12 (Monday Special Laser Seminar)</p>	<p>Mostafa Shalaby Institut National de la Recherche Scientifique, Quebec, Canada "Magneto-photonic phenomena at THz frequencies" at 14:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Steve Johnson, Ultrafast Dynamics Group, IQE</i></p>
<p>26.10.12 (Friday Morning Special Laser Seminar)</p>	<p>Daniel Molter University of Kaiserslautern "Novel approaches in coherent terahertz measurement techniques" at 09:30, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Steve Johnson, Ultrafast Dynamics Group, IQE</i></p>

01.-04.10.12

(Laser Seminar/ NCCR
MUST Seminar/ETH-Fast
Seminar)

Albert Stolow

National Research Council Canada, Ottawa, Ontario, Canada

"Dynamics of polyatomic molecules and how one may probe, control and understand such dynamics using strong and weak laser fields"

ETH Zurich, Hönggerberg Campus,

01.10.12, 16:00 - 18:30, HPV G 5

02.10.12, 16:00 - 18:30, HPV G 4

03.10.12, 15:00 - 17:00, HPH G 2

04.10.12, 17:00 - 19:30, HPV G 4; Apéro at 16:30

Host: Ursula Keller, Ultrafast Laser Physics, IQE

24.09.12

(Laser Seminar)

Jan Brauer

Laboratory of Photonics and Interfaces, EPFL Lausanne

"Linear and Time-resolved THz Spectroscopy of Photonic and Charge transporting Systems"

Host: Steve Johnson, Ultrafast Dynamics Group, IQE

11.+12.09.12

(Tuesday + Wednesday
Special Laser Seminar/
NCCR MUST
Seminar/ETH-Fast
Seminar)

Chii-Dong Lin

Kansas State University, Manhattan, KS, USA

"Strong field Physics and Quantitative Rescattering theory, Attosecond Physics -the promise and the challenge"

at 16:00, ETH Zurich, Hönggerberg Campus, HCI D-8

Host: Ursula Keller, Ultrafast Laser Physics, IQE

17.08.12

(Friday, Special Laser
Seminar)

Fabrizio Giorgetta, Esther Baumann

Quantum Electronics and Photonics, NIST, 325 Broadway, Boulder, CO 80305, USA

"Frequency Comb Techniques for Precision Measurement"

at 14:00, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Jérôme Faist, Quantum Optoelectronics, IQE

27.06.12

(Wednesday, Special Laser
Seminar)

Qiang (Peter) Liu

Dept. of Chemistry, Queen's University, Kingston, Canada

"Quantum Cascade lasers with novel active core and laser resonator designs"

at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Jérôme Faist, Quantum Optoelectronics, IQE

04.06.12

(Special Laser Seminar)

Hans-Peter Loock

Dept. of Chemistry, Queen's University, Kingston, Canada

"Chemical Sensing with optical waveguide devices"

at 14:00, ETH Zurich, Hönggerberg Campus, HIT K51

Host: Markus Sigrist, Laser Spectroscopy and Sensing, IQE

29.05.12

(Tuesday, Laser Seminar)

Miriam Serena Vitiello

Laboratorio NEST, Istituto Nanoscienze, Pisa, Italy

"Terahertz Photonics: from ultra-narrow Quantum Cascade Resonators to room temperature nano-detectors"

at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Jérôme Faist, Quantum Optoelectronics, IQE

21.05.12 (Laser Seminar)	Angela Vasanelli Laboratoire Matériaux et Phénomènes Quantiques, Université Paris "Mid-infrared devices in the ultra-strong coupling regime" at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Jérôme Faist, Quantum Optoelectronics, IQE</i>
27.04.12 (Friday, Special Laser Seminar)	Hiroaki Minamide + Hiromasa Ito RIKEN Advanced Science Institute, Sendai, Japan "Ultra-broadband Terahertz generation and detection using a nonlinear optical effect" at 16:30, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Jérôme Faist, Quantum Optoelectronics, IQE</i>
23.04.12 (Laser Seminar)	Andrea Ferrari University of Cambridge, Nanomaterials+Spectroscopy Group "Graphene Photonics and Optoelectronics" <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i>
2.04.12 (Laser Seminar/ NCCR MUST Seminar)	Amelle Zaïr Blackett Laboratory, Imperial College London "Probing molecular dynamics using trajectories control in high order harmonic generation" <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i>
26.03.12 (Laser Seminar/ NCCR MUST Seminar)	S. Johnson, G. Schertler, H. J. Wörner ETHZ, ETH-Fast members S. Johnson: "Ultrafast spin reorientation dynamics in antiferromagnetic oxides" G. Schertler: "First experience using the Coherent Diffracting Imaging Station on the Free Electron Laser in Stanford" H.J. Wörner: "Time-resolved studies of electronic dynamics in solvated species" <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i>
19.03.12 (Laser Seminar)	Andrzej Kolek Katedra Podstaw Elektroniki, Politechnika Rzeszowska, Rzeszów "NEGF simulations of two-phonon mid-infrared QCL" <i>Host: Jérôme Faist, Quantum Optoelectronics, IQE</i>
15.03.12 (Thursday Special Laser Seminar)	Christian Kränkel Institut für Laser-Physik, Universität Hamburg, Germany "Novel concepts for solid state lasers from UV to Mid-IR" at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i>

<p>12.03.12 (Laser Seminar/ NCCR MUST Seminar)</p>	<p>Darko Dimitrovski Aarhus University, Denmark "Semiclassical models for strong-field ionization and interpretation of ultrafast experiments" <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>23.02.12 (Thursday Special Laser Seminar/ NCCR MUST Seminar)</p>	<p>Eric Mazur Harvard University Department of Physics, Cambridge, USA "Subcellular surgery and nanosurgery" at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>5.12.11 (Laser Seminar/ NCCR MUST Seminar)</p>	<p>Armin Scrinzi LMU, München "Photo-ionization by strong IR fields" <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>21.11.11 (Laser Seminar/ NCCR MUST Seminar)</p>	<p>Lukas Gallmann Ultrafast Laser Physics, IQE, ETH Zurich "Measuring in the attosecond domain - techniques and applications" <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>14.11.11</p>	<p>Alexey Melnikov Institute of Spectroscopy, Russian Academy of Sciences "Ultrafast processes in bismuth and polyaniline studied by broadband femtosecond spectroscopy" <i>Host: Steve Johnson, Ultrafast Dynamics Group, IQE</i></p>
<p>31.10.11 (Laser Seminar)</p>	<p>Johann Peter Reithmaier Institute of Nanostructure Technologies and Analytics, Universitaet Kassel "Nanostructured Gain Material Tailored for High Power and Telecom Laser Diodes" <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>24.10.11 (Laser Seminar)</p>	<p>Fetah Benabid Institute Centre for Photonics and Photonic Materials (CPPM), University of Bath, UK "Photonic microcell: a revival tool for gas lasers" at 15:45, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>11.10.11 (Tuesday, Special Laser Seminar)</p>	<p>Andreas Wacker Institut f. Photonik und Zentrum f. Mikro- und NanoStrukturen, Technische Universität Wien "Gain and loss in semiconductor heterostructures" at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Jérôme Faist, Quantum Optoelectronics, IQE</i></p>

<p>10.10.11 (Laser Seminar/ NCCR MUST Seminar)</p>	<p>Ulrich Heinzmann Faculty of Physics, Molecular & Surface Physics, University of Bielefeld "Angle-, Spin- and Attosecond-resolved Photoemission" at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>10.10.11 (Monday, Special Laser Seminar)</p>	<p>Andrés Ferrer Laser Processing Group, Intitute of optics, CSIC (Spanish Research Coincil), Madrid, Spain "Ultrafast laser beam shaping for the optimisation of waveguide writing in dielectrics" at 15:15, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Steve Johnson, Ultrafast Dynamics Group, IQE</i></p>
<p>23.09.11 (Friday, Special Laser Seminar)</p>	<p>Karl Unterrainer Institut f. Photonik und Zentrum f. Mikro- und NanoStrukturen, Technische Universität Wien "Time-resolved spectsroscopy of THz QCLs and other nanostructures" at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Jérôme Faist, Quantum Optoelectronics, IQE</i></p>
<p>08.09.11 (Thursday, Special Laser Seminar)</p>	<p>Dan Botez Dept. of Electrical and Computer Engineering, University of Wisconsin-Madison "High-efficiency, tapered-active-region quantum cascade laser structures" at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Jérôme Faist, Quantum Optoelectronics, IQE</i></p>
<p>13.07.11 (Wednesday, Special Laser Seminar)</p>	<p>Misha Belkin University of Texas, Austin "Nanoscale imaging, optoelectronics, and plasmonics in mid-infrared" at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Jérôme Faist, Quantum Optoelectronics, IQE</i></p>
<p>16.06.11 (Thursday, Special Laser Seminar/ NCCR MUST Seminar)</p>	<p>Freek Kelkensberg FOM-Institute for Atomic and Molecular Physics, Amsterdam "Probing ultrafast molecular dynamics with high harmonic generation light pulses" at 15:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>31.05.11 (Tuesday, Special Laser Seminar)</p>	<p>Silvija Gradečak Department of Materials Science and Engineering, MIT (MA Cambridge, USA) "Semiconductor nanowires for applications in optoelectronics" at 16:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>
<p>30.05.11 (Optics Colloquium/ NCCR MUST Seminar)</p>	<p>Peter Moulton VP/CTO, Q-Peak, Inc., Bedford, MA "Tm: fiber lasers: Recent developments and applications" at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i></p>

23.05.11	Stefan Trotzky Quantum Optics Group, LMU München "Experiments with ultracold bosons in driven optical superlattices" <i>Host: Daniel Greif / Tilman Esslinger, Quantum Optics, IQE</i>
20.05.11 (Friday, Optics Colloquium)	Tony Heinz Columbia University, New York "Seeing electrons in two-dimensions: Optical spectroscopy of graphene" at 14:00, ETH Zurich, Hönggerberg Campus, HCI J-3 <i>Host: Atac Imamoglu, Quantum Photonics, IQE</i>
09.05.11	Arjan Gijsbertsen FOM Instituut voor Atoom en Molecuul Fysica (AMOLF), Amsterdam - The Netherlands "Optimizing orientation: non-resonant femtosecond laser excitation of fully state-selected NO molecules" <i>Host: Hans J. Wörner, Ultrafast Spectroscopy and Attosecond Science, LPC</i>
19.04.11 (Tuesday, Special Laser Seminar)	Thomas Aichele Humboldt-Universität zu Berlin " <u>Plasmonic and Semiconductor Nanostructures for Nanophotonics and Quantum Optics Experiments</u> " at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Stephan Goetzinger / Vahid Sandoghdar, Nano-Optics, LPC</i>
18.04.11	Stefano Barbieri Laboratoire Matériaux et Phénomènes Quantiques, Université de Paris 7 and CNRS, Paris "Phase-locking and active mode-locking of terahertz quantum cascade lasers" <i>Host: Jérôme Faist / Giacomo Scalari, Quantum Optoelectronics, IQE</i>
12.04.11 (Tuesday, Special Laser Seminar/ NCCR MUST Seminar)	Albert Stolow NRC, Ottawa, Canada "Polyatomic Molecules in Laser Fields: Dynamics, Control, Strong Fields" at 14:00, ETH Zurich, Hönggerberg Campus, HCI J-4 <i>Host: Hans J. Wörner, Ultrafast Spectroscopy and Attosecond Science, LPC</i>
05.04.11 (Tuesday, Special Laser Seminar)	Gadi Eisenstein Technion Institute of Technology, Israel "Dynamical processes in semiconductor nano structure lasers and amplifiers" at 15:00, ETH Zurich, Hönggerberg Campus, HPF G-6 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i>
04.04.11 (Optics Colloquium)	Gadi Eisenstein Technion Institute of Technology, Israel "Chip scale atomic clocks" at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-3 <i>Host: Ursula Keller, Ultrafast Laser Physics, IQE</i>
28.03.11 (Inaugural Lecture)	Hans J. Wörner Laboratory of Physical Chemistry, ETH Zurich "Ultrakurze Laserpulse - eine Stoppuhr für Elektronen" at 17:15, ETH Zurich, Central Campus, HG F-30 (Audimax)

-
- 28.03.11** Andrew J. Orr-Ewing
University of Bristol, UK
"Applications of cw cavity ring-down spectroscopy to the study of trace atmospheric constituents"
at 14:15, ETH Zurich, Hönggerberg Campus, HPF G-6
Host: Markus Sgrist, Laser Spectroscopy & Sensing, IQE
-
- 25.03.11** (Friday, Special Laser Seminar)
Thomas Südmeyer
Institute for Quantum Electronics, ETH Zurich
"New frontiers in ultrafast laser oscillators"
at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6
Host: Ursula Keller, Ultrafast Laser Physics, IQE
-
- 21.03.11** (Laser Seminar/ NCCR MUST Seminar)
Martina Havenith
Physical Chemistry II, Ruhr-Universität Bochum
"Watching the dance of ions and molecules in the THz"
Host: Ursula Keller, Ultrafast Laser Physics, IQE
-
- 14.03.11** **Gian-Luca Bona**
EMPA - Materials Science & Technology
"Photonic Integrated Circuits: Challenges and Opportunities"
Host: Ursula Keller, Ultrafast Laser Physics, IQE
-
- 07.03.11** (Laser Seminar/ NCCR MUST Seminar)
Agapi Emmanouilidou
University College London
"Prevalence of different double ionization pathways in driven atomic and molecular systems"
Host: Ursula Keller, Ultrafast Laser Physics, IQE
-
- 28.02.11** **Reinhart Poprawe**
Fraunhofer Institut für Lasertechnik, Lehrstuhl für Lasertechnik der RWTH Aachen
"KW-fs laser technology opening a new dimension of materials processing" *Host: Ursula Keller, Ultrafast Laser Physics, IQE*
-
- 10.02.11** (Thursday, Special Laser Seminar/ NCCR MUST Seminar)
Jon Zuegel/ Jake Bromage
Laboratory for Laser Energetics, University of Rochester, USA
"Lasers at the University of Rochester Laboratory for Laser Energetics: Laser Fusion to Ultra-Intense OPCPA"
at 15:00, ETH Zurich, Hönggerberg Campus, HPF G-6
Host: Ursula Keller, Ultrafast Laser Physics, IQE
-
- 04.02.11** (Friday, Special Laser Seminar)
Janez Mozina
Faculty of Mechanical Engineering, University of Ljubljana, Slovenia
"Optodynamics - a synthesis of optoacoustics and laser processing"
at 10:00, ETH Zurich, Hönggerberg Campus, HPF G-6
Host: Markus Sgrist, Laser Spectroscopy & Sensing, IQE
-

21.12.10

(Tuesday, Special Laser Seminar/ NCCR MUST Seminar)

Olga Smirnova

Max-Born-Institute, Division B, Berlin

"Tutorial on PPT and Keldysh Theory"

10:00-12:00, Hönggerberg Campus, HPF G-6

Host: Ursula Keller, Ultrafast Laser Physics, IQE

20.12.10

(Laser Seminar/ NCCR MUST Seminar)

Misha Ivanov

Department of Physics, Imperial College London

"Tunnel ionization of molecules revisited"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

20.12.10

(Special Laser Seminar/ NCCR MUST Seminar)

Olga Smirnova

Max-Born-Institute, Division B, Berlin

"Tutorial on PPT and Keldysh Theory"

14:00-16:00, Hönggerberg Campus, HPF G-6

Host: Ursula Keller, Ultrafast Laser Physics, IQE

16.12.10

(Thursday, Special Laser Seminar)

Ekmel Ozbay

Nanotechnology Research Center, Bilkent University

"Photonic Nano-Metamaterials: Science Meets Magic"

at 16:45, ETH Zurich, Hönggerberg Campus, HCI H-2

Host: Yasin Ekinci / J. Löffler, Nano-Optics, LMPT

13.12.10

Stefan Kröll

Department of Physics, Lund University

"Spectral design of rare earth ion doped crystals for quantum gate, quantum memory, slow light and spectral/temporal filter operations"

Host: Stephan Goetzinger / Vahid Sandoghdar, Nano-Optics, LPC

06.12.10

(Laser Seminar/ NCCR MUST Seminar)

Jean-Pierre Wolf

GAP-Biophotonics, University of Geneva

"Consequences of Negative Higher-Order Kerr Effect on Laser Filamentation"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

15.11.10

(Laser Seminar/ NCCR MUST Seminar)

Bettina Fischer

Max-Planck-Institut für Kernphysik, Heidelberg

"Steering electron localization in dissociating H_2^+ "

Host: Ursula Keller, Ultrafast Laser Physics, IQE

15.11.10

(Special Laser Seminar)

Yasuhiko Arakawa

The University of Tokyo

"Light-matter interaction in a single quantum dot-photonic crystal nanocavity coupled system"

at 14:00, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Atac Imamoglu, Quantum Photonics, IQE

08.11.10

Maria Amanti

Institute for Quantum Electronics, ETH Zurich
"Photonics for THz Quantum Cascade lasers"
Host: Jérôme Faist, Quantum Optoelectronics, IQE

01.11.10

(Lecture on Nano- and Optoelectronics)

Lionel C. Kimerling

MIT Microphotonics Center
"Scaling Information Technology with Photonic Integration"
at 17:15, ETH Zurich, Central Campus, ETZ E-6 (Gloriastrasse 35)
Host: Wolfgang Fichtner, Integrated Systems Laboratory, D-ITET

Cancelled and shifted to March 14, 2011

Gian-Luca Bona

EMPA - Materials Science & Technology
"Photonic Integrated Circuits: Challenges and Opportunities"
Host: Ursula Keller, Ultrafast Laser Physics, IQE

18.10.10

Magnus Albert

Department of Physics and Astronomy, The University of Aarhus, Denmark
"Cavity electromagnetically induced transparency and all-optical switching with ion Coulomb crystals"
Host: Jonathan Home, Trapped Ion Quantum Information, IQE

11.10.10

Lars Bojer Madsen

Department of Physics and Astronomy, The University of Aarhus, Denmark
"Polar molecules in femto- and attosecond pulses"
Host: Ursula Keller, Ultrafast Laser Physics, IQE

04.10.10

Parisa Fallahi

Institute for Quantum Electronics, ETH Zurich
"Exploring single spin physics in self-assembled quantum dots using resonance fluorescence"
Host: Atac Imamoglu, Quantum Photonics, IQE

27.09.10

(Optics Colloquium)

Junichiro Kono

William Marsh Rice University
"Superfluorescence from Ultrahigh-Density Excitons in Quantum Wells"
at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7
Host: Atac Imamoglu, Quantum Photonics, IQE

20.09.10

(Laser Seminar/ QSIT Seminar)

Monika Schleier-Smith

MIT / Center for Ultracold Atoms, Cambridge (MA)
"A Squeezed Atomic Clock Enabled by Cavity Feedback"
at 16:45, ETH Zurich, Hönggerberg Campus, HCI H-2.1
Host: Tilman Esslinger, Quantum Optics, IQE

10.09.10

(Friday, Special Laser Seminar)

Monika Fleischer

Eberhard Karls Universität Tübingen, Institut für Angewandte Physik
"Fabrication, optical characterization, and applications of metallic nanocones"
14:00 ETH Zurich Hönggerberg, HPF G6
Host: Mario Agio / Vahid Sandoghdar, Nano-Optics, LPC

14.07.10

(Wednesday, Special Laser Seminar)

Connie J. Chang-Hasnain

Dept. of Electrical Engineering and Computer Science,
University of California, Berkeley
"High-Contrast Grating: Bringing New Light to
Optoelectronics"

at 13:30, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Ursula Keller, Ultrafast Laser Physics, IQE

02.07.10

(Friday, Special Laser Seminar)

Igor Aharonovich

School of Physics, University of Melbourne, Australia "Novel
single photon emitters based on color centers in diamond"

at 14:00, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Atac Imamoglu, Quantum Photonics, IQE

24.06.10

(Thursday, Special Laser Seminar)

Siddharth Ramachandran

Boston University
"Non-Zero-Order Light: Beams that can do what a
Gaussian cannot"

**at 16:45, ETH Zurich, Hönggerberg Campus, HPF
G-6**

Host: Mario Agio / Vahid Sandoghdar, Nano-Optics, LPC

18.06.10

(Friday, Special Laser Seminar)

Alex Hayat

Department of Electrical Engineering, Technion, Haifa, Israel
"Semiconductor Quantum Photonics"

at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Atac Imamoglu, Quantum Photonics, IQE

15.06.10

(Tuesday, Special Laser Seminar)

Hans Jakob Wörner

Steacie Institute for Molecular Sciences, National Research
Council, Canada

"Probing molecular dynamics by homodyne
high-harmonic spectroscopy"

at 15:00, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Ursula Keller, Ultrafast Laser Physics, IQE

31.05.10

(Optics Colloquium)

Immanuel Bloch

Max-Planck-Institut für Quantenoptik, Garching b. München
"Exploring strongly correlated quantum matter in artificial
crystals of light"

at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7

*Host: Vahid Sandoghdar, Nano-Optics, LPC / Tilman
Esslinger, Quantum Optics, IQE*

28.05.10

(Friday, Special Laser Seminar)

Girish S. Agarwal

Department of Physics, Oklahoma State University, OK (USA)

"Electromagnetically induced transparency and nonlinear optics in mechanical effects of light"

at 14:30, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Atac Imamoglu, Quantum Photonics, IQE / Vahid Sandoghdar, Nano-Optics, LPC

25.05.10

(Tuesday, Special Laser Seminar)

Eva Gallardo

Departamento de Física de Materiales, Universidad Autónoma de Madrid

"Microcavity-mediated coupling of two distant semiconductor quantum rings"

at 14:00, ETH Zurich, Hönggerberg Campus, HCI J-4

Host: Atac Imamoglu, Quantum Photonics, IQE

17.05.10

(Optics Colloquium)

Niek van Hulst

ICFO - Institute of Photonic Sciences, Castelldefels (Barcelona)

"Controlling photon emitters on nanometer and femtosecond scale"

at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7

Host: Vahid Sandoghdar, Nano-Optics, LPC

12.05.10

(Wednesday, Special Laser Seminar)

Toni Laurila

Laser Analytics Group, Department of Chemical Engineering and Biotechnology, University of Cambridge

"Chemical Multi-species Sensing Using Supercontinuum Light"

at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Markus Sigrist, Laser Spectroscopy & Sensing, IQE

10.05.10

(Optics Colloquium)

Richard Warburton

University of Basel

"Laser spectroscopy on single self-assembled quantum dots"

at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7

Host: Atac Imamoglu, Quantum Photonics, IQE

03.05.10

Ken Crozier

Harvard University

"Manipulating nanoparticles and enhancing spectroscopy with surface plasmons"

Host: Vahid Sandoghdar, Nano-Optics, LPC

26.04.10

Rupert Huber

University of Konstanz, Germany

"Ultrabroadband terahertz physics: from quantum to high fields"

Host: Jérôme Faist, Quantum Optoelectronics, IQE

Cancelled and shifted to May 25, 2010

Eva Gallardo

Departamento de Física de Materiales, Universidad Autónoma de Madrid

"Microcavity-mediated coupling of two distant semiconductor quantum rings"

at 14:00, ETH Zurich, Hönggerberg Campus, HCI H-2

Host: Atac Imamoglu, Quantum Photonics, IQE

12.04.10

(Optics Colloquium)

Jeremy J. Baumberg

Cavendish Laboratory, Department of Physics, University of Cambridge

"Self-assembling NanoPhotonics: photonic crystals by extrusion, and plasmonic crystals for bio-sensing" **at**

16:45, ETH Zurich, Hönggerberg Campus, HCI J-7

Host: Atac Imamoglu, Quantum Photonics, IQE

12.04.10

(Special Laser Seminar)

Howard R. Reiss

Max-Born-Institut, Berlin / American University, Washington, DC

"Relativistically strong fields at very low frequencies, and applications to basic energy problems"

at 14:00, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Ursula Keller, Ultrafast Laser Physics, IQE

30.03.10

(Tuesday, Special Laser Seminar)

Fei Ding

Leibniz Institute for Solide State and Materials Research (IFW), Dresden

"Engineering the properties of nanostructures by piezoelectric-induced stresses"

at 14:00, ETH Zurich, Hönggerberg Campus, HCI H-2

Host: Atac Imamoglu, Quantum Photonics, IQE

29.03.10

Jan-Michael Rost

Max-Planck-Institut für Physik komplexer Systeme, Dresden

"Nonlinear driving of atoms by intense light fields"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

26.03.10

(Friday, Special Laser Seminar)

Jurgen Michel

Massachusetts Institute of Technology, Cambridge (USA)

"A Germanium Laser on Silicon"

at 14:00, ETH Zurich, Hönggerberg Campus, HCI J-3

Host: Jérôme Faist, Quantum Optoelectronics, IQE / Hans Sigg, Micro- and Nanotechnology, PSI

25.03.10

(Thursday, Special Laser Seminar)

John Gerard McInerney

Department of Physics / Tyndall Institute, National University of Ireland, Cork

"High brightness semiconductor lasers"

at 14:00, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Ursula Keller, Ultrafast Laser Physics, IQE

23.03.10

(Tuesday, Special Laser Seminar)

Alexios Beveratos/Isabelle Robert

CNRS - Laboratoire de Photonique et de Nanostructures,
Marcoussis, France

"Defining a coherence threshold for high-b photonic
crystal nanolasers"

**at 11:00, ETH Zurich, Hönggerberg Campus, HPF
G-6**

Host: Atac Imamoglu, Quantum Photonics, IQE

22.03.10

Takunori Taira

Sokendai / Laser Research Center for Molecular
Science, Institute for Molecular Science (IMS),
Okazaki, Japan

"Giant micro-photonics by new domain controlling"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

08.03.10

Götz Erbert

Ferdinand-Braun-Institut für Höchstfrequenztechnik,
Berlin

"Monolithic spectrally stabilized diode lasers for optical
pumping and SHG"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

01.03.10

Florian Marquardt

Department of Physics, Ludwig-Maximilians-University
Munich

"Optomechanics - Interaction between light and
nanomechanics"

Host: Hakan Türeci, Mesoscopic Quantum Optics, IQE

Cancelled and shifted to March 25, 2010

John Gerard McInerney

Department of Physics / Tyndall Institute, National
University of Ireland, Cork

"High brightness semiconductor lasers"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

14.12.09

Alexander Tartakovskii

Department of Physics & Astronomy, University of
Sheffield

"Manipulation of nuclear spins in semiconductor
quantum dots using resonant techniques"

Host: Atac Imamoglu, Quantum Photonics, IQE

11.12.09

(Friday, Special Laser Seminar)

Mauro Nisoli

Dipartimento di Fisica, Politecnico di Milano

"Applications of isolated attosecond pulses to atomic
and molecular physics"

**at 13:30, ETH Zurich, Hönggerberg Campus, HPF
G-6**

Host: Ursula Keller, Ultrafast Laser Physics, IQE

07.12.09

(Optics Colloquium)

Georg Maret

Fachbereich Physik, Universität Konstanz

"Experimental Evidence for Anderson-localization of
light in dielectric powders"

**at 16:45, ETH Zurich, Hönggerberg Campus, HCI
J-7**

Host: Vahid Sandoghdar, Nano-Optics, LPC

06.07.09

(Special Laser Seminar)

Marc Achermann

University of Massachusetts Amherst
"Optical Excitations and Interactions in Metal and
Semiconductor Nanostructures"

at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Ursula Keller, Ultrafast Laser Physics, IQE

29.06.09

(Special Laser Seminar)

Ingmar Hartl

IMRA America, Inc.
"Yb-fiber laser frequency combs"

at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Ursula Keller, Ultrafast Laser Physics, IQE

22.06.09

(Special Laser Seminar)

Jacob B. Khurgin

Electrical & Computer Engineering, Johns Hopkins
University, Baltimore

"Engineering the Disorder in Optoelectronic"

at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Vahid Sandoghdar, Nano-Optics, LPC

11.06.09

(Thursday, Special Laser Seminar)

Thomas Graf

Institut für Strahlwerkzeuge (IFSW), Universität Stuttgart
"High-Power Laser Beam Control"

at 11:15, ETH Zurich, Hönggerberg Campus, HPT F-8

Host: Ursula Keller, Ultrafast Laser Physics, IQE

18.05.09

Martin Aeschlimann

Department of Physics and Research Center OPTIMAS,
University of Kaiserslautern, Germany

"Simultaneous Spatial and Temporal Control of
Nanooptical Fields"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

11.05.09

Dominik Bauer

Max-Planck-Institut für Quantenoptik, Garching
"Experiments with Feshbach Resonances in Ultracold
Gases"

Host: Tilman Esslinger, Quantum Optics, IQE

Cancelled and shifted to September 28, 2009

Rudolf Bratschitsch

Universität Konstanz / Centrum für angewandte
Photonik, Konstanz

"Ultrafast quantum optics with solid state
nanosystems"

Host: Vahid Sandoghdar, Nano-Optics, LPC

27.04.09

(Optics Colloquium)

Jakob Reichel

Laboratoire Kastler Brossel, ENS Paris
"Cavity QED with optical fiber cavities"

at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7

Host: Atac Imamoglu, Quantum Photonics, IQE

06.04.09

Olga Smirnova

Max-Born-Institute, Berlin

"High harmonic spectroscopy of polyatomic molecules: retrieving attosecond dynamics"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

23.03.09

Thomas Bourdel

Institut d'Optique, Orsay

"All-optical runaway evaporation to Bose-Einstein condensation"

Host: Tilman Esslinger, Quantum Optics, IQE

16.03.09

(Optics Colloquium)

Jérôme Faist

Institute of Quantum Electronics, ETH Zurich

"Bridging electronics and optics with quantum cascade lasers circuits"

at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7

Host: Atac Imamoglu, Quantum Photonics, IQE

09.03.09

Selim Jochim

Max-Planck-Institut für Kernphysik, Heidelberg

"Few-body physics with an ultracold gas of fermions"

Host: Tilman Esslinger, Quantum Optics, IQE

02.03.09

Majed Chergui

Laboratoire de Spectroscopie Ultrarapide (LSU), EPF Lausanne

"Ultrafast dynamics of molecular systems in liquids studied by optical and X-ray spectroscopies"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

23.02.09

Wilhelm Zwerger

TU München

"Ultracold Fermions in one dimension: From confinement induced molecules to FFLO-states"

Host: Tilman Esslinger, Quantum Optics, IQE

16.02.09

Vincenzo Savona

Institute of Theoretical Physics, EPF Lausanne, Switzerland

"Bose-Einstein condensation of microcavity polaritons: An overview"

Host: Atac Imamoglu, Quantum Photonics, IQE

30.01.09

(Friday, Special Laser Seminar)

John Debs / Rachel Poldy

The Australian National University, Canberra

"Atom Interferometry and Single Atom Detection" **at 14:00, ETH Zurich, Hönggerberg Campus, HPF D-25**

Host: Tilman Esslinger, Quantum Optics, IQE

15.12.08

Martha Ch. Lux-Steiner

Helmholtz-Zentrum Berlin (HZB)

"Neue Entwicklungen bei der Dünnschicht-Photovoltaik"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

08.12.08

Michiel Wouters

EPF Lausanne
"Two body problem in optical lattices"
Host: Tilman Esslinger, Quantum Optics, IQE

01.12.08

(Optics Colloquium)

Matthias Weidemüller

Physics Institute, University of Heidelberg
"Ultracold molecules and the quest for chemistry without entropy"
at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7
Host: Tilman Esslinger, Quantum Optics, IQE

24.11.08

(Inaugural Lecture)

Charalampos Anastasiou

Institute for Theoretical Physics, ETH Zurich
"Heavier than light"
at 17:15, ETH Zurich, Central Campus, HG F-30 (Audimax)

18.11.08

(Tuesday, Special Laser Seminar)

Howard R. Reiss

Max Born Institute, Berlin / American University, Washington, DC
"Basic questions in strong-field physics"
at 13:00, ETH Zurich, Hönggerberg Campus, HPT F-8
Host: Ursula Keller, Ultrafast Laser Physics, IQE

17.11.08

(Optics Colloquium)

Emmanuel Rosencher

ONERA / Ecole Polytechnique, Palaiseau Cedex (France)
"Harnessing optical nonlinearities in semiconductors" **at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7**
Host: Jérôme Faist, Quantum Optoelectronics, IQE

10.11.08

Oliver Morsch

CNR-INFN, Pisa, Italy
"Dressing matter waves in driven potentials"
Host: Tilman Esslinger, Quantum Optics, IQE

03.11.08

(Optics Colloquium)

Nicolas Gisin

Group of Applied Physics, University of Geneva
"Towards Understanding Quantum Correlations: New Bell tests and simulating Entanglement with Nonlocal Boxes" **at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7**
Host: Vahid Sandoghdar, Nano-Optics, LPC

27.10.08

Regina de Vivie-Riedle

Department Chemie und Biochemie, Ludwig-Maximilians-Universität München
"Simultaneous Description of Electron and Nuclear Dynamics: A Quantum Approach for Multi-Electron Systems"
Host: Ursula Keller, Ultrafast Laser Physics, IQE

20.10.08

Andreas Wittmann

Institute for Quantum Electronics, ETH Zurich
"Single-mode quantum cascade lasers for spectroscopy"
Host: Jérôme Faist, Quantum Optoelectronics, IQE

13.10.08

Peter E. Toschek

Institut für Laser-Physik, Universität Hamburg
"What does a single atom reveal to its observer?"
Host: Ursula Keller, Ultrafast Laser Physics, IQE

06.10.08

Cornelia Denz

Nichtlineare Photonik, Institut für Angewandte Physik,
Westfälische Wilhelms-Universität Münster
"Structuring, Manipulation and Controlling Light by
Light - Nonlinear Photonics Applications in Information
Processing and Life Sciences"
Host: Ursula Keller, Ultrafast Laser Physics, IQE

29.09.08

Christoph Haisch

Chair for Analytical Chemistry, Technische Universität
München
"Optical and Optothermal Methods for the Characterization
of Aerosols and Colloids"
Host: Markus Sigrist, Laser Spectroscopy & Sensing, IQE

22.09.08

Alex Hoeghele

Institute for Quantum Electronics, ETH Zurich
"Quantum optics with carbon nanotubes"
Host: Atac Imamoglu, Quantum Photonics, IQE

17.09.08

(Wednesday, Special Laser Seminar/
Solid-state Physics Seminar)

Fabrizio Carbone

California Institute of Technology, Pasadena, USA
"Watching matter moving with ultrafast electron diffraction"
at 14:00, ETH Zurich, Hönggerberg Campus, HPF G-6
Host: Ursula Keller, Ultrafast Laser Physics, IQE

16.07.08

(Wednesday, Special Laser Seminar)

Nathan Kutz

University of Washington, USA
"Dynamics of Mode-locked lasers"
at 11:00, ETH Zurich, Hönggerberg Campus, HPT F-8
Host: Ursula Keller, Ultrafast Laser Physics, IQE

26.06.08

(Thursday, Special Laser Seminar)

Danielle Braje

National Institute of Standards and Technology (NIST),
Boulder, USA
"Spectrally-resolvable frequency combs"
at 11:00, ETH Zurich, Hönggerberg Campus, HPF G-6
Host: Ursula Keller, Ultrafast Laser Physics, IQE

03.06.08

(Tuesday, Special Laser Seminar)

Thierry Amand

Institut National des Sciences Appliquées (INSA),
Toulouse, France

"Spin physics in semiconductor quantum dots: nuclear effects"

at 16:45, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Atac Imamoglu, Quantum Photonics, IQE

19.05.08

Roberto Marquardt

Laboratoire de Chimie Quantique, Université Louis Pasteur, Strasbourg

"Molecular Quantum Dynamics from Femtoseconds to Attoseconds"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

05.05.08

(Optics Colloquium)

Andreas Wallraff

Laboratory for Solid State Physics, ETH Zurich

"Circuit Quantum Electrodynamics: Quantum Optics Experiments with Electronic Circuits"

at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7

Host: Vahid Sandoghdar, Nano-Optics, LPC

28.04.08

Andras Vukics

Institute for Theoretical Physics, University of Innsbruck

"Quantum particles in optical cavities: theory & computation"

Host: Tilman Esslinger, Quantum Optics, IQE

21.04.08

(Optics Colloquium)

Edward A. Hinds

Centre for Cold Matter, Blackett Laboratory, Imperial College London

"Ultra-cold atoms on atom chips"

at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7

Host: Vahid Sandoghdar, Nano-Optics, LPC

07.04.08

(Laser Seminar/ QSIT Seminar)

Daniel Loss

University of Basel

"Born Approximation and beyond for the Spin-Boson Model"

Host: Atac Imamoglu, Quantum Photonics, IQE

31.03.08

CANCELED: Clemens Kaminski

Laser Analytics Group, University of Cambridge
"Wavelength agile molecular diagnostics using supercontinuum radiation"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

17.03.08

(Optics Colloquium)

Jörg Wrachtrup

Stuttgart University of Technology

"Spins and light: combining two worlds in a single defect"

at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7

Host: Vahid Sandoghdar, Nano-Optics, LPC

10.03.08

Alice Berthelot

Ecole normale supérieure Paris
"Decoherence effects in InAs/GaAs single quantum dot"

Host: Atac Imamoglu, Quantum Photonics, IQE

03.03.08

Chih-Wei Lai

Michigan State University
"Characterizations of polariton condensates and metastable states in an array of polariton condensates"

Host: Atac Imamoglu, Quantum Photonics, IQE

25.02.08

Peter Domokos

Research Institute for Solid State Physics and Optics of the Hungarian Academy of Sciences, Budapest
"Collective effects in a cloud of opto-mechanically coupled atoms"

Host: Tilman Esslinger, Quantum Optics, IQE

11.01.08

(Friday, Special Laser Seminar)

Ann Sophie Rittner

Cornell University, Ithaca, NY, USA
"The Role of Disorder in Supersolidity"

at 13:30, ETH Zurich, Hönggerberg Campus, HPF G-6

Host: Tilman Esslinger, Quantum Optics, IQE

18.12.07

(Tuesday, Special Laser Seminar)

Guenter Huber

Institut für Laser-Physik, Universität Hamburg
"Diode pumped solid-state lasers in the near infrared and visible spectral region"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

17.12.07

Helmut Ritsch

Institute of Theoretical Physics, Universität Innsbruck
"Atoms in quantum optical potentials"

Host: Tilman Esslinger, Quantum Optics, IQE

10.12.07

Ian Walmsley

Hooke Professor of Experimental Physics and Head of Atomic and Laser Physics, Oxford University (U. K.)
"Phase matching reexamined: wave mixing applications in ultrafast quantum optics"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

03.12.07

Peter Hamm

University of Zurich
"Femtosecond IR Spectroscopy of Condensed Phase Molecular Systems"

Host: Ursula Keller, Ultrafast Laser Physics, IQE

26.11.07

Stephan Ritter

Institute for Quantum Electronics, ETH Zurich
"Bose-Einstein Condensation and Cavity QED"

Host: Tilman Esslinger, Quantum Optics, IQE

19.11.07

Rosario Fazio

NEST, Scuola Normale Superiore, Pisa (Italia)
"Mott insulating and glassy phases of polaritons in
arrays of coupled cavities"
Host: Atac Imamoglu, Quantum Photonics, IQE

12.11.07

(Optics Colloquium)

L. Kobus Kuipers

FOM Institute for Atomic and Molecular Physics
(AMOLF), Amsterdam (The Netherlands)
"Local investigation of photonic eigenstates"
at 16:45, ETH Zurich, Hönggerberg Campus, HCI G-3
Host: Vahid Sandoghdar, Nano-Optics, LPC

05.11.07

Martin Kroner

LMU München (Germany)
"Power dependent optics of a singly charged quantum
dot"
Host: Atac Imamoglu, Quantum Photonics, IQE

01.11.07

(Thursday, Special Laser Seminar)

Iacopo Carusotto

INFM-BEC Center, Trento (Italy)
"The non-equilibrium Bose-Einstein condensation
phase transition in microcavity polariton systems"
Host: Atac Imamoglu, Quantum Photonics, IQE

29.10.07

(Optics Colloquium)

Michel Orrit

MoNOS, Huygens Laboratorium, Universiteit Leiden (The
Netherlands)
"Single molecules and Metal Nanoparticles as Nanoscale
Probes"
at 16:45, ETH Zurich, Hönggerberg Campus, HCI G-3
Host: Vahid Sandoghdar, Nano-Optics, LPC

08.10.07

Benjamin Deissler

Department of Physics, University of Virginia
"Atom interferometry with Bose-Einstein condensates"
Host: Tilman Esslinger, Quantum Optics, IQE

03.10.07

(Wednesday, Special Laser Seminar)

Frans J.M. Harren

Institute for Molecules and Materials, Radboud
University, Nijmegen (The Netherlands)
"Laser-based infrared spectroscopy for sensitive chemical
sensing"
Host: Markus Sigrist, Laser Spectroscopy & Sensing, IQE

01.10.07

Daan Lenstra

Delft University of Technology
"Semiconductor Laser Dynamics: from
fundamental delay problems to integrated device
applications" *Host: Ursula Keller, Ultrafast Laser
Physics, IQE*

18.06.07

(Optics Colloquium)

Kerry Vahala

California Institute of Technology, Pasadena (CA, USA)
"Opto-Mechanical Physics of High-Q Microtoroid
Resonators"
16:45, ETH Zurich Hönggerberg HCI J-7
Host: Atac Imamoglu, Quantum Photonics, IQE

11.06.07 (Optics Colloquium)	Ferenc Krausz LMU Muenchen /MPQ Garching, Germany "Attosecond Physics" at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7 Host: Ursula Keller, Ultrafast Laser Physics, IQE
08.06.07 (Special Laser Seminar)	Janet Pan Yale University "High-efficiency light-emission from nanoscale deep-centers in GaAs for 1.5 μ m fiber-optics" at 14:00, ETH Zurich, Hönggerberg Campus, HPF G-6 Host: Atac Imamoglu, Quantum Photonics, IQE
04.06.07	Oliver Benson Humboldt-Universität zu Berlin, Germany "Quantum Light Sources for Optical Quantum Information Processing" Host: Vahid Sandoghdar, Nano-Optics, LPC
21.05.07	Steve Johnson Swiss Light Source, Paul Scherrer Institut, Villigen, Switzerland "Ultrafast x-ray science with solid state systems: new ways to observe structure on a femtosecond time scale" Host: Ursula Keller, Ultrafast Laser Physics, IQE
14.05.07 (Optics Colloquium)	Oskar Painter California Institute of Technology, Pasadena (CA, USA) "Application of Micro- and Nano-Photonics to optical cavity QED systems: trends, tools, and techniques" at 16:45, ETH Zurich, Hönggerberg Campus, HCI J-7 Host: Atac Imamoglu, Quantum Photonics, IQE/ Vahid Sandoghdar, Nano-Optics, LPC
07.05.07	Daniel Hofstetter Université de Neuchâtel "GaN – a new material for optical telecommunication devices?" Host: Markus Sigrist, Laser Spectroscopy & Sensing, IQE
30.04.07	John Tisch Imperial College London, London (UK) "Probing Attosecond Dynamics by Laser-Driven Electron Recollisions" Host: Ursula Keller, Ultrafast Laser Physics, IQE
26.04.07 (Special Laser Seminar)	Mark Hopkinson University of Sheffield, Sheffield (UK) "Development of InGaAs Quantum dot emitters by MBE for laser and broadband source applications" at 11.00 , ETH Zurich, Hönggerberg Campus, HPF G-6 Host: Ursula Keller, Ultrafast Laser Physics, IQE
23.04.07	Giulio Cerullo Dipartimento di Fisica, Politecnico di Milano (Italy) "Probing primary photoinduced processes in organic molecules with tunable few-optical-cycle light pulses" Host: Vahid Sandoghdar, Nano-Optics, LPC

02.04.07
(Optics Colloquium)

Serge Haroche
College de France
"Quantum non-demolition measurement of light: The life and death of trapped photons"
at 16:45, ETH Zurich, Hönggerberg Campus, **HCI J-7**
Host: *Vahid Sandoghdar, Nano-Optics, LPC*

02.04.07
(Special Laser Seminar)

Yingmei Liu
MIT-Harvard Center for Ultracold Atoms, Massachusetts Institute of Technology, Cambridge, USA
"Superfluidity of Ultracold Fermions in an Optical Lattice"
at 10:00, ETH Zürich, Hönggerberg Campus, HPT C-9
Host: *Tilman Esslinger, Quantum Optics, IQE*

26.03.07

Jaesuk Hwang
Laboratory of Physical Chemistry, ETH Zurich
"Exploring Novel Methods of Interferometric Detection of Ultrasmall Phase Shifts"
Host: *Vahid Sandoghdar, Nano-Optics, LPC*

19.03.07

Henri Benisty
Institut d'Optique, Laboratoire Charles Fabry, Palaiseau, France
"Light emission from broad photonic crystal devices"
Host: *Atac Imamoglu, Quantum Photonics, IQE*

05.02.07
(Special Laser Seminar)

Guillaume Cassabois
Laboratoire Pierre Aigrain, Ecole Normale Supérieure, Paris, France
"Unconventional motional narrowing in the optical spectrum of a semiconductor quantum dot"
Host: *Atac Imamoglu, Quantum Photonics, IQE*

29.01.07
(Optics Colloquium)

Demetri Psaltis
Optical Information Processing, California Institute of Technology, Pasadena, CA/ Dean of the School of Engineering, EPFL, Lausanne
"Optofluidics"
Time: 16:45, Location: HCI J-7
Host: *Vahid Sandoghdar, Nano-Optics, LPC*

22.01.07

Pascal Salières
Groupe Attophysique, Centre d'Etudes de Saclay, Gif-sur-Yvette, France
"Attosecond pulses generated in atoms and molecules"
Host: *Ursula Keller, Ultrafast Laser Physics, IQE*

15.01.07
(Optics Colloquium)

Berthold Hahn
OSRAM Opto Semiconductors GmbH, Regensburg, Germany
"Recent advances in GaInN-LEDs"
Time: 16:45, Location: HCI J-7
Host: *Bernd Witzigmann, Computational Optoelectronics, ISL*

08.01.07

Ajoy Kar
School of Engineering and Physical Sciences, Heriot Watt University
"Ultrafast nonlinear spectroscopy"
Host: *Tilman Esslinger, Quantum Optics, IQE/ Ursula Keller, Ultrafast Laser Physics, IQE*

21.12.06
(Special Laser Seminar)

Michael Hartmann
Institute for Mathematical Sciences and QOLS, Blackett
Laboratory, Imperial College London
"Strongly Interacting Polaritons in Coupled Arrays of
Cavities"
Time: 11:00, Location: HPF G-6
Host: Atac Imamoglu, Quantum Photonics, IQE

18.12.06
(Optics Colloquium)

André Mysyrowicz
Laboratoire d'optique appliquee, ENSTA, Ecole
Polytechnique
Palaiseau, France
"Femtosecond filamentation"
Time: 16:45, Location: HCI J-7
Host: Ursula Keller, Ultrafast Laser Physics, IQE

13.12.06
(Special Laser Seminar)

Manfred Eich
Hamburg University of Technology, Germany
"Polymer Photonic Crystals"
Time: 11:00, Location: HPF G-6
Host: Peter Günter, Nonlinear Optics, IQE

11.12.06

Livio Gianfrani
Dipartimento di Scienze Ambientali della Seconda
Università di Napoli and CNISM, Italy
"Stable isotope ratio infrared spectrometry"
Host: Markus Sigrist, Laser Spectroscopy & Sensing, IQE

04.12.06

John Dudley
Université de Franche-Comté, Besançon, France
"From Self-Similarity to Ultrafast Carrier Shocks -
Recent Advances in Nonlinear Fiber Optics"
Host: Ursula Keller, Ultrafast Laser Physics, IQE

27.11.06

Cristiano Ciuti
Université Paris/ Ecole Normale Supérieure, Paris
"Cavity quantum electrodynamics of semiconductor
intersubband transitions in the ultra-strong vacuum
Rabi coupling regime"
Host: Atac Imamoglu, Quantum Photonics, IQE

20.11.06

Jens Michaelis
Department of Chemistry and Biochemistry, Ludwig-
Maximilians-University Munich, Germany
"Single-molecules at work - Deciphering the
mechanism of molecular motors"
Host: Vahid Sandoghdar, Nano-Optics, LPC

13.11.06

Richard van der Stam
Utrecht University, Niederlande
"Superradiant scattering of laser light from a
Bose-Einstein condensate"
Host: Tilman Esslinger, Quantum Optics, IQE

09.11.06
(Special Laser Seminar)

Gerd Leuchs
Friedrich-Alexander University Erlangen-Nuremberg,
Germany
"An optical amplifier at the quantum limit - built with
linear optics and quantum-electro-optic feed forward"
Host: Ursula Keller, Ultrafast Laser Physics, IQE

06.11.06

Matteo Galli
University of Pavia, Italy
"Enhanced Er³⁺ emission in silicon-on-insulator
photonic crystal waveguides"
Host: Atac Imamoglu, Quantum Photonics, IQE

30.10.06

Philipp Kukura

Laboratory of Physical Chemistry, ETH Zurich
"Recording Molecular Movies with Femtosecond
Stimulated Raman Spectroscopy"
Host: Vahid Sandoghdar, Nano-Optics, LPC

04.07.06

Christoph Becher

Universität des Saarlandes, Saarbrücken, Germany
"Single Ion Cavity QED Experiments"
Time: 14:00, Location: HPF G-6

03.07.06

Rolf Hernberg

Tampere University of Technology, Tampere, Finland
"New Applications of Diode Lasers in Gas Sensing and
Light Sources"

26.06.06

Christoph Becher

Universität des Saarlandes, Saarbrücken, Germany
"Single Ion Cavity QED Experiments"
Postponed to Tuesday, July 04, 2006

19.06.06

Daniele Romanini

Université J. Fourier de Grenoble, France
"Optical Cavities and High Sensitivity Spectroscopy"

12.06.06

Alain Aspect

Institut d'Optique, France
"From Einstein Intuition to Quantum Bits : The
Amazing Properties of Entangled Photons"
Time: 16:45, Location: HCI G-3

29.05.06

Xavier Maitre

Ecole Normale Supérieure, Laboratoire Kastler-Brossel,
Paris
"Hyperpolarized Helium-3 : Beyond Lung Images"

22.05.06

Victor Veselago

Institute of Physics and Technology, Moscow
"Some remarks to electrodynamics of materials with
negative refraction"

15.05.06

Almut Beige

University of Leeds, England
"Quantum Computing Without Interactions and
Without Single Photon Measurements?"
Time 16:45, Location: HCI H2.1

08.05.06

Rüdiger Paschotta

RP Photonics Consulting GmbH
"Laser Beam Quality Issues Revisited: How to Minimize
the Effect of Intracavity Beam Distortions"

24.04.06

Luis Roso

Universidad de Salamanca, Spain
"Strong Field Ionization of Fully Correlated Three-electron Atoms"

Time: 9:45, Location: HPF G-6

10.04.06

Christoph Harder

"High Power Diode Lasers"

03.04.06

Robert Moshhammer

Max-Planck-Institut für Kernphysik, Germany
"Atomic and Molecular Dynamics in Strong Laser Fields"

04.07.05

Part I

Dr. Ehud Altman

Harvard University, Cambridge, MA, USA
"Probing Ordered, Quasi-ordered and Disordered States of Strongly Interacting Ultra Cold Atoms"

06.07.05

Part II

Dr. Ehud Altman

Harvard University, Cambridge, MA, USA
"Probing Ordered, Quasi-ordered and Disordered States of Strongly Interacting Ultra Cold Atoms"

27.06.06

Prof. Peter Drummond

Australian Centre for Quantum-Atom Optics, University of Queensland

"Correlations and Collective Modes in Fermions on Lattices"
and

Prof. Joel F. Corney

Australian Centre for Quantum-Atom Optics, University of Queensland

"Simulating Many-Body Physics with Quantum Phase-Space Methods"

20.06.05

Prof. Karsten Buse

Institute of Physics, University of Bonn, Germany
"Lithium Niobate Crystals: From Material Science to New Applications"

13.06.05

Prof. Khaled Karrai

Ludwig-Maximilians-University, Festkörper Physik, Munich, Germany
"Cooling Micromechanical Systems with Laser Light"

06.06.05

Dr. Max Kreiter

Max-Planck-Institute for Polymer Research, Mainz, Germany
"Optical Antennae Enhance Chromophore Performance"

30.05.05

Prof. Richard Warburton

Heriot-Watt University, UK

"Controlling the Spin of an Exciton in a Quantum Dot with a Voltage"

09.05.05

Dr. Peter Uhd Jepsen

Nanophotonics, COM Research Center, Technical University of Denmark

"Terahertz Time-Domain Spectroscopy in Physics, Chemistry and Biology"

02.05.05

Dr. Mischa Bonn

FOM-Institute AMOLF, Institute of Chemistry, Leiden, Netherlands

"Ultrafast Exciton and Charge Dynamics Studied with THz Spectroscopy"

25.04.05

Prof. Alfred Leitenstorfer

Modern Optics and Quantum Electronics, University of Konstanz, Germany

"Femtosecond Quantum Kinetics in Semiconductors Investigated via Ultrabroadband Tera-hertz Spectroscopy: At the Limits of Time-Energy-Uncertainty"

19.04.05

(Special Laser Seminar)

Dr. Jan Young

Intel Corporation

"Design of Clock Distribution in High Performance Processors"

11.04.05

Prof. Tilman Pfau

5th Institute of Physics, University of Stuttgart, Germany

"Ultracold Chromium: A Dipolar Quantum Gas"

04.04.05

Prof. Helmut Ritsch

Institute of Theoretical Physics, University of Innsbruck, Austria

"Light Forces in High Q Cavities"

30.03.05

(Special Laser Seminar)

Prof. Dr. Jorn M. Hvam

Research Center COM, Technical University of Denmark
Mode-locking and Mode Control in Semiconductor Lasers
