

Molecular Physics Division (MO)

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Summary of the Invited Talks, Prize Talks, and Sessions

(lecture rooms F 102 and F 142; poster Lichthof)

Invited Talks

MO 1.1	Mo	14:00–14:30	F 102	Charge-transfer dynamics in organic mixed-valence compounds — •INGO FISCHER
MO 3.1	Mo	16:30–17:00	F 102	Mechanisms of Triplet Generation and Depletion in Organic Molecules — •CHRISTEL M. MARIAN
MO 4.1	Mo	16:30–17:00	F 142	Rock and Roll in He Nanodroplets: Aggregation at Ultracold Conditions — •GERHARD SCHWAAB, ELSA SANCHEZ-GARCIA, ANJA METZELTHIN, WOLFRAM SANDER, MARTINA HAVENITH
MO 12.1	We	10:30–11:00	F 142	Ultrafast photochemistry of fulgides: Tuning the ring-opening reaction by vibrational excess energy — •SIMONE DRAXLER, THOMAS BRUST, MARKUS BRAUN, WOLFGANG ZINTH
MO 14.1	We	14:00–14:30	F 102	Ultrafast Conformational Dynamics of Azopeptides — •JOSEF WACHTVEITL, LISA LORENZ, KARSTEN NEUMANN, HEIKE STAUDT, ULRIKE KUSEBAUCH, LUIS MORODER
MO 16.1	We	16:30–17:00	F 102	Probing molecular chirality in a laser mass spectrometer: Circular dichroism and multiphoton ionization — •ULRICH BOESL, CHRISTOPH LOGÉ

Prize Talk

MO 20.1	Th	10:30–11:15	F 142	Speckle-Reduktion bei der Infrarotlaser-gestützten abbildenden Fern-detektion von TNT-Oberflächenkontaminationen — •JAN KASTER
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Invited talks of the joint symposium SYDP

See SYDP for the full program of the Symposium.

SYDP 1.1	Mo	16:30–17:00	F 107	Experimental all-optical one-way quantum computing — •ROBERT PREVEDEL
SYDP 1.2	Mo	17:00–17:30	F 107	Benchmarks and statistics of entanglement dynamics — •MARKUS TIER- SCH
SYDP 1.3	Mo	17:30–18:00	F 107	Squeezed Light For Gravitational Wave Astronomy — •HENNING VAHLBRUCH
SYDP 1.4	Mo	18:00–18:30	F 107	High-precision mass measurements with Penning traps — •SEBASTIAN GEORGE

Invited talks of the joint symposium SYDC

See SYDC for the full program of the Symposium.

SYDC 1.1	Tu	14:00–14:30	E 415	Environment-induced Decoherence of Quantum States: An Introduction — •HEINZ-PETER BREUER
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SYDC 1.2	Tu	14:30–15:00	E 415	Fighting Decoherence: Quantum Information Science with Trapped Ca⁺ Ions — T. MONZ, K. KIM, A. VILLAR, P. SCHINDLER, M. CHWALLA, M. RIEBE, C. F. ROOS, H. HÄFFNER, W. HÄNSEL, M. HENNRICH, ●R. BLATT
SYDC 1.3	Tu	15:00–15:30	E 415	Decoherence phenomena in molecular systems: Localization of matter waves & stabilization of chiral configuration states — ●KLAUS HORNBERGER
SYDC 1.4	Tu	15:30–16:00	E 415	Decoherence of free electron waves and visualization of the transition from quantum- to classical-behaviour — ●FRANZ HASSELBACH
SYDC 2.1	Tu	16:30–17:00	E 415	Coherence and the loss of it in molecular photoionization — ●UWE HERGENHAHN
SYDC 2.2	Tu	17:00–17:30	E 415	Decoherence in fermionic interferometers — ●FLORIAN MARQUARDT
SYDC 2.3	Tu	17:30–18:00	E 415	Quantum diffusion in gravitational waves backgrounds — ●SERGE REYNAUD, BRAHIM LAMINE, RÉMY HERVÉ, ASTRID LAMBRECHT
SYDC 2.4	Tu	18:00–18:30	E 415	Quantum coherence and decoherence in biological systems — ●MARTIN PLENIO

Invited talks of the joint symposium SYLA

See SYLA for the full program of the Symposium.

SYLA 1.1	We	14:00–14:30	E 415	How the laser happend — ●HERBERT WELLING
SYLA 1.2	We	14:30–15:00	E 415	The origin of the quantum theory of lasing — ●FRITZ HAAKE
SYLA 1.3	We	15:00–15:30	E 415	Lasers for precision measurements — ●THOMAS UDEM
SYLA 1.4	We	15:30–16:00	E 415	Short, Ultra Short, Atto Short — ●DIETRICH VON DER LINDE
SYLA 2.1	We	16:30–17:00	E 415	Our Daily Life with Semiconductor Lasers — ●DIETER BIMBERG
SYLA 2.2	We	17:00–17:30	E 415	Power to the Industry - the story of Laser upscaling — ●REINHART POPRAWE
SYLA 2.3	We	17:30–18:00	E 415	The Outstanding Qualities of Fiber Lasers and Thin Disk Lasers — ●ADOLF GIESEN
SYLA 2.4	We	18:00–18:30	E 415	Solid State Lasers:meeting the challenges of the 21st Century — ●ROBERT L. BYER

Invited talks of the joint symposium SYQS

See SYQS for the full program of the Symposium.

SYQS 1.1	Th	10:30–11:00	E 415	Theoretical studies on quantum control and spectroscopy of ultrafast photoreactions — ●REGINA DE VIVIE-RIEDLE, JUDITH VOLL, ARTUR NENOV, TIAGO BUCKUP, JÜRGEN HAUER, MARCUS MOTZKUS
SYQS 1.2	Th	11:00–11:30	E 415	Quantum Control Spectroscopy: Understanding photobiology with coherently controlled matter waves — ●TIAGO BUCKUP, JÜRGEN HAUER, JUDITH VOLL, REGINA VIVIE-RIEDLE, MARCUS MOTZKUS
SYQS 1.3	Th	11:30–12:00	E 415	Development of strategies for the optimal control in complex systems — ●ROLAND MITRIC
SYQS 1.4	Th	12:00–12:30	E 415	Mechanistic laser pulse parameterizations — ●TOBIAS BRIXNER
SYQS 2.1	Th	14:00–14:30	E 415	Efficient control of electron dynamics — ●MATTHIAS WOLLENHAUPT
SYQS 2.2	Th	14:30–15:00	E 415	Exploring wavepacket dynamics under strong laser fields — ●LETICIA GONZALEZ
SYQS 2.3	Th	15:00–15:30	E 415	Quantum Control Spectroscopy in Ultracold Atomic and Molecular Gases — ●MATTHIAS WEIDEMÜLLER

Invited talks of the joint symposium SYDI

See SYDI for the full program of the Symposium.

SYDI 1.1	Fr	10:30–11:00	E 415	Flash diffraction imaging with X-ray lasers — ●JANOS HAJDU
SYDI 1.2	Fr	11:00–11:30	E 415	The hitchhikers guide to cryo-electron tomography - A voyage to the inner space of cells — ●JUERGEN PLITZKO
SYDI 1.3	Fr	11:30–12:00	E 415	Far-Field Optical Nanoscopy by Optical Switching — ●ANDREAS SCHÖNLE, STEFAN HELL
SYDI 1.4	Fr	12:00–12:30	E 415	Coherent Diffractive Imaging at LCLS — ●HENRY CHAPMAN

SYDI 2.1	Fr	14:00–14:30	E 415	High Harmonic Generation from Molecules: Prospects for ultra-fast imaging of molecular structure and dynamics — ●JONATHAN MARANGOS
SYDI 2.2	Fr	14:30–15:00	E 415	Time-resolved diffraction from selectively aligned molecules — ●ERNST FILL, MARTIN CENTURION, PETER RECKENTHÄLER, WERNER FUSS, FERENC KRAUSZ
SYDI 2.3	Fr	15:00–15:30	E 415	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
SYDI 2.4	Fr	15:30–16:00	E 415	Ultrafast processes and imaging of clusters — ●THOMAS MÖLLER

Sessions

MO 1.1–1.7	Mo	14:00–16:00	F 102	Electronic spectroscopy I
MO 2.1–2.7	Mo	14:00–15:45	F 142	Collisions, Energy Transfer
MO 3.1–3.8	Mo	16:30–18:45	F 102	Theory: Quantum Chemistry and Molecular Dynamics
MO 4.1–4.4	Mo	16:30–17:45	F 142	Spectroscopy in He droplets
MO 5.1–5.8	Tu	14:00–16:00	F 102	Femtosecond Spectroscopy I
MO 6.1–6.7	Tu	14:00–16:00	F 142	Cold Molecules I
MO 7.1–7.19	Tu	16:00–18:30	Lichthof	Poster: Femtosecond Spectroscopy
MO 8.1–8.11	Tu	16:00–18:30	Lichthof	Poster: Electronic Spectroscopy
MO 9.1–9.5	Tu	16:00–18:30	Lichthof	Poster: Collisions, Energy Transfer
MO 10.1–10.5	Tu	16:00–18:30	Lichthof	Poster: Spectroscopy in He Droplets
MO 11.1–11.1	Tu	16:00–18:30	Lichthof	Poster: Theory
MO 12.1–12.7	We	10:30–12:30	F 142	Photochemistry I
MO 13	We	12:30–13:30	F 142	Mitgliederversammlung des Fachverbands Molekülphysik
MO 14.1–14.7	We	14:00–16:00	F 102	Femtosecond Spectroscopy II
MO 15.1–15.4	We	14:00–15:00	F 142	Photochemistry II
MO 16.1–16.8	We	16:30–18:45	F 102	Electronic Spectroscopy II
MO 17.1–17.10	We	16:30–19:00	F 142	Biomolecules
MO 18.1–18.8	Th	10:30–12:30	F 102	Cluster I
MO 19.1–19.5	Th	10:30–12:00	E 001	Ultracold Molecules (with Q)
MO 20.1–20.6	Th	10:30–12:30	F 142	Experimental Techniques I
MO 21.1–21.6	Th	14:00–15:30	F 102	Femtosecond Spectroscopy III
MO 22.1–22.4	Th	14:00–15:00	F 142	Cold Molecules II
MO 23.1–23.6	Th	14:00–16:00	F 303	Atomic Clusters III (with A)
MO 24.1–24.9	Th	16:00–18:30	Lichthof	Poster: Quantum Control
MO 25.1–25.2	Th	16:00–18:30	Lichthof	Poster: Photochemistry
MO 26.1–26.8	Th	16:00–18:30	Lichthof	Poster: Biomolecules
MO 27.1–27.10	Th	16:00–18:30	Lichthof	Poster: Cluster
MO 28.1–28.9	Th	16:00–18:30	Lichthof	Poster: Cold Molecules
MO 29.1–29.8	Th	16:00–18:30	Lichthof	Poster: Experimental Techniques
MO 30.1–30.7	Fr	10:30–12:15	F 102	Quantum Control (with Q)
MO 31.1–31.7	Fr	10:30–12:45	B 302	Electron Scattering and Recombination / Interaction of Matter with Ions (with A)
MO 32.1–32.2	Fr	14:00–14:30	F 142	Experimental Techniques II
MO 33.1–33.6	Fr	14:00–15:30	F 102	Cluster II

Mitgliederversammlung Fachverband Molekülphysik

Mittwoch 12:30–13:30 F 142

- Bericht
- Wahl des neuen Stellvertreters
- Verschiedenes