

Molecular Physics Division Fachverband Molekülphysik (MO)

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Overview of Invited Talks and Sessions

(Lecture rooms f102 and f142; Poster Empore Lichthof)

Invited Talks

MO 7.1	Tue	11:00–11:30	f102	Monitoring ultrafast excited-state intramolecular proton transfer by ultrafast electronic and fluorescence spectroscopy — ●ANDREAS STEINBACHER, PRAMOD KUMAR VERMA, FREDERICO KOCH, ALEXANDER SCHMIEDEL, PATRICK NUERNBERGER, TOBIAS BRIXNER
MO 9.1	Tue	14:30–15:00	f102	Structural investigations on a linear depsipeptide and cyclopeptides by combined IR/UV spectroscopy: Importance of dispersion interactions — ANKE STAMM, DOMINIC BERNHARD, ●MARKUS GERHARDS
MO 15.1	Thu	11:00–11:30	f102	Imaging of an autoionizing resonance using time-, energy- and angular-resolved photoelectron spectroscopy. — MARTIN ECKSTEIN, CHUNG-HSIN YANG, FABIO FRASSETTO, LUCA POLETTI, GIUSEPPE SANSONE, MARC J. J. VRAKKING, ●OLEG KORNILOV
MO 16.1	Thu	11:00–11:30	f142	Vibrational spectra, structures, and chemical bonding of silicon hydride cluster cations — ●OTTO DOPFER
MO 16.2	Thu	11:30–12:00	f142	Far-infrared spectroscopy of metal cluster rare-gas complexes — DAVID YUBERO VALDIVIELSO, VALERY CHERNY, DENNIS PALAGIN, JOOST M. BAKKER, ●ANDRÉ FIELICKE
MO 21.1	Fri	11:00–11:30	f142	Rotational state thermometry of hydroxyl anions at the Cryogenic Storage Ring (CSR) — ●CHRISTIAN MEYER, ARNO BECKER, KLAUS BLAUM, CHRISTIAN BREITENFELDT, SEBASTIAN GEORGE, JÜRGEN GÖCK, MANFRED GRIESER, FLORIAN GRUSSIE, PHILIPP HERWIG, JONAS KARTHEIN, CLAUDE KRANTZ, HOLGER KRECKEL, SUNIL KUMAR, JORRIT LION, SVENJA LOHMANN, PREETI M. MISHRA, OLDŘICH NOVOTNÝ, AODH P. O'CONNOR, ROLAND REPNOW, KAIJA SPRUCK, STEFAN SCHIPPERS, DIRK SCHWALM, LUTZ SCHWEIKHARD, STEPHEN VOGEL, ROBERT VON HAHN, ANDREAS WOLF
MO 21.6	Fri	12:30–13:00	f142	Infrared Spectroscopy of mass/charge selected biomolecules in liquid helium droplets — ●GERT VON HELDEN

Invited talks of the joint symposium SYAD

See SYAD for the full program of the symposium.

SYAD 1.1	Tue	11:00–11:30	e415	Artificial gauge fields and topology with ultracold atoms in optical lattices — ●MONIKA AIDELSBURGER
SYAD 1.2	Tue	11:30–12:00	e415	Many-body physics with impurities in ultracold quantum gases — ●FABIAN GRUSDT
SYAD 1.3	Tue	12:00–12:30	e415	How to determine the handedness of single molecules — ●MARTIN PITZER
SYAD 1.4	Tue	12:30–13:00	e415	Quantum systems under gravitational time dilation — ●MAGDALENA ZYCH

Invited talks of the joint symposium SYML

See SYML for the full program of the symposium.

SYML 1.1	Wed	11:00–11:30	e415	Laboratory studies of interstellar molecules: from the first molecules to complex organics in space — ●HOLGER KRECKEL
SYML 1.2	Wed	11:30–12:00	e415	Detecting astrophysically relevant ions in laboratory and space — ●STEPHAN SCHLEMMER
SYML 1.3	Wed	12:00–12:30	e415	Interstellar ice - a hot topic — ●HAROLD LINNARTZ
SYML 1.4	Wed	12:30–13:00	e415	Exoplanets: The Thorny Path to Habitable Conditions — ●MANUEL GÜDEL
SYML 2.1	Wed	14:30–15:00	e415	Physics with keV Ion Beams in the Cryogenic Storage Ring CSR — ●ANDREAS WOLF
SYML 2.3	Wed	15:15–15:45	e415	A generalized theory for rovibrational motion in cold, extremely floppy molecules — ●HANNO SCHMIEDT, PER JENSEN, STEPHAN SCHLEMMER
SYML 2.6	Wed	16:15–16:45	e415	Lead-cluster investigations at ClusterTrap — STEPHAN KÖNIG, PAUL FISCHER, GERRIT MARX, ●LUTZ SCHWEIKHARD, MARKUS WOLFRAM, ALBERT VASS

Invited talks of the joint symposium SYBO

See SYBO for the full program of the symposium.

SYBO 1.1	Thu	11:00–11:30	e415	Recent advances of Optical Coherence Tomography — ●WOLFGANG DREXLER
SYBO 1.2	Thu	11:30–12:00	e415	Vortex-beams for precise and gentle dissection in refractive corneal surgery — ●ALFRED VOGEL, SEBASTIAN FREIDANK, NORBERT LINZ
SYBO 1.3	Thu	12:00–12:30	e415	Structured Illumination and the Analysis of Single Molecules in Cells — ●RAINER HEINTZMANN
SYBO 1.4	Thu	12:30–13:00	e415	Biophotonics - a potential solution to unmet medical needs!? — ●JUERGEN POPP
SYBO 2.1	Thu	14:30–15:00	e415	Smart and multimodal light sheet microscopy — ●JAN HUISKEN
SYBO 2.2	Thu	15:00–15:30	e415	Laser Applications at the Cochlea: Imaging and Stimulation — ●ALEXANDER HEISTERKAMP, NICOLE KALLWEIT, PETER BAUMHOFF, ALEXANDER KRUEGER, NADINE TINNE, HEIKO MEYER, ANDREJ KRAL, HANNES MAIER, TAMMO RIPKEN
SYBO 2.3	Thu	15:30–16:00	e415	Sculpted light landscapes for optical micro-manipulation — CHRISTINA ALPMANN, ALVARO BARROSO PENA, EILEEN OTTE, KATHRIN DIECKMANN, ●CORNELIA DENZ
SYBO 2.4	Thu	16:00–16:30	e415	Optogenetics: Lighting Up the Brain — ●GERO MIESENBOECK

Sessions

MO 1.1–1.8	Mon	11:00–13:00	f102	Quantum Control and Femtosecond Spectroscopy 1
MO 2.1–2.6	Mon	11:00–12:30	f142	Collisions, Energy transfer and ab initio Modelling
MO 3.1–3.8	Mon	14:30–16:30	f102	Electronic Spectroscopy 1
MO 4.1–4.6	Mon	14:30–16:00	f142	Cold Molecules & Helium Droplets 1
MO 5.1–5.7	Mon	17:00–18:45	f107	Atomic clusters I (with A)
MO 6.1–6.10	Mon	16:30–19:00	Empore Lichthof	Posters 1: Novelties in Molecular Physics: Femtosecond Spectroscopy
MO 7.1–7.7	Tue	11:00–13:00	f102	Femtosecond Spectroscopy 2
MO 8.1–8.8	Tue	11:00–13:00	f142	Experimental Techniques
MO 9.1–9.7	Tue	14:30–16:30	f102	Biomolecules and Photochemistry
MO 10.1–10.8	Tue	14:30–16:30	f107	Atomic clusters II (with A)
MO 11.1–11.19	Tue	16:30–19:00	Empore Lichthof	Posters 2: Novelties in Molecular Physics: Femtosecond Spectroscopy, Quantum Control, Electronic Spectroscopy, Biomolecules and Photochemistry
MO 12.1–12.4	Wed	11:00–13:00	e415	Symposium SYML: From First Molecules to Life (with MS)
MO 13.1–13.6	Wed	14:30–16:45	e415	Symposium SYML: Molecules and Ions in Isolation (with MS)

MO 14.1–14.22	Wed	16:30–19:00	Empore Lichthof	Posters 3: Novelties in Molecular Physics: Theory of Molecular Dynamics, Collisions and Energy Transfer, and Experimental Techniques
MO 15.1–15.8	Thu	11:00–13:15	f102	Femtosecond Spectroscopy 3
MO 16.1–16.7	Thu	11:00–13:15	f142	Molecular Clusters
MO 17.1–17.6	Thu	14:30–16:00	f102	Electronic Spectroscopy 2
MO 18.1–18.7	Thu	14:30–16:15	f142	The Modelling of Molecular Dynamics
MO 19.1–19.30	Thu	16:30–19:00	Empore Lichthof	Posters 4: Novelties in Molecular Physics: Femtosecond Spectroscopy, Molecular Clusters, Cold Molecules and Helium Droplets
MO 20.1–20.8	Fri	11:00–13:00	f102	Femtosecond Spectroscopy 4
MO 21.1–21.6	Fri	11:00–13:00	f142	Cold Molecules & Helium Droplets 2

Annual General Meeting of the Molecular Physics Division

Wednesday 13:00–13:30 e415