

Molecular Physics Division Fachverband Molekülphysik (MO)

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Overview of Invited Talks and Sessions

(Lecture rooms N 6 and N 25; Poster P OGS)

Invited Talks

MO 1.1	Mon	14:30–15:00	N 6	Dynamic Solvent Effects Treated with a Quantum/Classical TDSCF Approach — •MARTIN PESCHEL, JULIUS ZAULECK, FLORIAN ROTT, REGINA DE VIVIE-RIEDLE
MO 3.1	Mon	17:00–17:30	N 6	Single-shot coherent diffractive imaging of individual clusters using a high harmonic source — NILS MONSERUD, DANIELA RUPP, BRUNO LANGBEHN, MARIO SAUPPE, JULIAN ZIMMERMANN, YEVHENIY OVCHARENKO, THOMAS MÖLLER, FABIO FRASSETTO, LUCA POLETTI, ANDREA TRABATTONI, FRANCESCA CALGARI, MAURO MISOLI, KATHARINA SANDER, CHRISTIAN PELTZ, MARC J.J. VRAKING, THOMAS FENNEL, •ARNAUD ROUZÉE
MO 5.1	Tue	11:00–11:30	N 6	Cryo Kinetics and Spectroscopy of 3d Metal Clusters and Alloys — JENNIFER MOHRBACH, SEBASTIAN DILLINGER, MATTHIAS KLEIN, AMELIE EHRHARD, •GEREON NIEDNER-SCHATTEBURG
MO 6.1	Tue	11:00–11:30	N 25	Illuminating Molecular Symmetries with Bicircular High-Order-Harmonic Generation — •DANIEL M. REICH, LARS BOJER MADSEN
MO 7.1	Tue	14:30–15:00	N 6	Cluster Studies with the BerlinTrap — •PABLO NIETO, ALAN GÜNTHER, DAVID MÜLLER, ALEX SHELDRIK, OTTO DOPFER
MO 8.1	Tue	14:30–15:00	N 25	Ultrafast dynamics of a magnetically bistable molecular switch by fs transient absorption spectroscopy — •SEBASTIAN MEGOW, JULIA BAHRENBURG, HENDRIK BÖHNKE, MATS BOHNSACK, MARK DITNER, MARCEL DOMMASCHK, RAINER HERGES, FRIEDRICH TEMPS
MO 10.1	Wed	14:30–15:00	N 6	Molecular movies of migrating protons on different paths — •HEIDE IBRAHIM, VINCENT WANIE, SAMUEL BEAULIEU, BENJI WALES, BRUNO SCHMIDT, XIAO-MIN TONG, JOE SANDERSON, MICHAEL SCHURMAN, FRANÇOIS LÉGARÉ
MO 13.1	Thu	11:00–11:30	N 6	Ultrafast solvent fluctuations steer the hydrated excess proton in the Zundel cation $H_5O_2^+$ — •FABIAN DAHMS, RENE COSTARD, EHUD PINES, EVA MARIA BRÜNING, TORSTEN SIEBERT, BENJAMIN P. FINGERHUT, ERIK T. J. NIBBERING, THOMAS ELSAESSER
MO 15.1	Thu	14:30–15:00	N 6	Tracking electronic processes inside dense matter by luminescence — •ANDRÉ KNIE
MO 17.1	Fri	11:00–11:30	N 6	Molecular-Frame Photoelectron Imaging of Controlled Complex Molecules — •JOSS WIESE, SEBASTIAN TRIPPEL, JOCHEN KÜPPER

Invited talks of the joint symposium SYDD

See SYDD for the full program of the symposium.

SYDD 1.1	Mon	14:30–15:00	P 1	Controlling (?) Quantum Dynamics with Open Systems — •DIETER MESCHEDÉ
SYDD 1.2	Mon	15:00–15:30	P 1	Many-body physics of driven, open quantum systems: optically driven Rydberg gases — •MICHAEL FLEISCHHAUER
SYDD 1.3	Mon	15:30–16:00	P 1	Theorie getriebener dissipativer Quantensysteme / theory of driven dissipative quantum systems — •TOBIAS BRANDES

SYDD 1.4 Mon 16:00–16:30 P 1 **Calorimetry of a Bose-Einstein-condensed photon gas** — ●MARTIN WEITZ

Invited talks of the joint symposium SYAD

See SYAD for the full program of the symposium.

SYAD 1.1 Wed 11:00–11:30 RW 1 **Exciton transport in disordered organic systems** — ●FRANZISKA FENNEL

SYAD 1.2 Wed 11:30–12:00 RW 1 **Quantum dynamics in strongly correlated one-dimensional Bose gases** — ●FLORIAN MEINERT

SYAD 1.3 Wed 12:00–12:30 RW 1 **Dynamics and correlations of a Bose-Einstein condensate of light** — ●JULIAN SCHMITT

SYAD 1.4 Wed 12:30–13:00 RW 1 **Circular dichroism and accumulative polarimetry of chiral femtochemistry** — ●ANDREAS STEINBACHER

Invited talks of the joint symposium SYAM

See SYAM for the full program of the symposium.

SYAM 1.1 Thu 11:00–11:30 P 1 **Buffer gas cooling of antiprotonic helium to T=1.5-1.7 K, and the antiproton to electron mass ratio** — ●MASAKI HORI

SYAM 1.2 Thu 11:30–12:00 P 1 **The BASE Experiment: High-precision comparisons of the fundamental properties of protons and antiprotons** — ●C. SMORRA, M. BESIRLI, K. BLAUM, M. BOHMAN, M. J. BORCHERT, J. HARRINGTON, T. HIGUCHI, H. NAGAHAMA, Y. MATSUDA, A. MOOSER, C. OSPELKAUS, W. QUINT, S. SELLNER, G. SCHNEIDER, N. SCHOEN, T. TANAKA, J. WALZ, Y. YAMAZAKI, S. ULMER

SYAM 1.3 Thu 12:00–12:30 P 1 **Antihydrogen physics at the ALPHA experiment** — ●NIELS MADSEN

SYAM 2.1 Thu 14:30–15:00 P 1 **Muon g-2** — ●KLAUS JUNGSMANN

SYAM 2.2 Thu 15:00–15:30 P 1 **Antihydrogen physics at ASACUSA and AEGIS** — ●CHLOÉ MALBRUNOT

SYAM 2.3 Thu 15:30–16:00 P 1 **An experiment to measure the anti-hydrogen Lamb shift** — ●PAOLO CRIVELLI

Sessions

MO 1.1–1.7 Mon 14:30–16:30 N 6 **Photochemistry**

MO 2.1–2.8 Mon 14:30–16:30 N 25 **Precision Experiments on Small Molecules**

MO 3.1–3.6 Mon 17:00–18:45 N 6 **Diffraction and Coherences (with A)**

MO 4.1–4.8 Mon 17:00–19:00 N 25 **Spectroscopy of Cold Molecules and Complexes**

MO 5.1–5.7 Tue 11:00–13:00 N 6 **Clusters I (with A)**

MO 6.1–6.6 Tue 11:00–12:45 N 25 **Theory of Molecular Dynamics**

MO 7.1–7.6 Tue 14:30–16:15 N 6 **Helium Droplets and Systems (with A)**

MO 8.1–8.7 Tue 14:30–16:30 N 25 **Fast Intramolecular Dynamics**

MO 9.1–9.20 Tue 17:00–19:00 P OGS **Posters 1: Dichroism, VUV and Xray, Clusters, and Cold Molecules**

MO 10.1–10.7 Wed 14:30–16:30 N 6 **Highly Excited Molecules and Clusters**

MO 11.1–11.8 Wed 14:30–16:30 N 25 **Molecular Nanostructures and Solids**

MO 12.1–12.20 Wed 17:00–19:00 P OGS **Posters 2: Molecular Dynamics, Clusters, and High Resolution Spectroscopy**

MO 13.1–13.7 Thu 11:00–13:00 N 6 **Probing Vibrations**

MO 14.1–14.8 Thu 11:00–13:00 N 25 **Theory of Coupled Systems**

MO 15.1–15.7 Thu 14:30–16:30 N 6 **Environment Controlled Processes**

MO 16.1–16.20 Thu 17:00–19:00 P OGS **Posters 3: Experimental Techniques and Theoretical Approaches**

MO 17.1–17.7 Fri 11:00–13:00 N 6 **Experimental Techniques**

MO 18.1–18.8 Fri 11:00–13:00 N 25 **Biomolecules and Electron Transfer**

MO 19.1–19.7 Fri 11:00–13:00 N 3 **Clusters II (with A)**

MO 20.1–20.7 Fri 14:30–16:30 N 3 **Clusters III (with A)**

Annual General Meeting of the Molecular Physics Division

Tuesday 13:15–14:00 N 6