

Molecular Physics Division Fachverband Molekülphysik (MO)

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Overview of Invited Talks and Sessions

(Lecture halls P 105, P 110, and P 204; Poster Philo 1. OG)

Invited Talks

MO 1.1	Mon	11:30–12:00	P 105	Unraveling the early-stage dynamics of ionized water dimer in energy and time — •SEBASTIAN TRIPPEL, IVO VINKLÁREK, MICHAL BELINA, LUISA BLUM, HUBERTUS BROMBERGER, PETR SLAVÍČEK, JOCHEN KÜPPER
MO 2.1	Mon	11:30–12:00	P 110	Charge-directed reactivity in chiral molecules induced by ultrafast co-rotating currents — •AURELIEN SANCHEZ, ERIK MÅNSSON, VINCENT WANIE, OLGA SMIRNOVA, VALERIE BLANCHET, YANN MAIRESSE, BERNARD PONS, FRANCESCA CALEGARI
MO 2.2	Mon	12:00–12:30	P 110	Controlling the orientational degeneracy of rotational states in chiral molecules — •ELAHE ABDIHA, SHILPA YADAV, SEJUN AN, JUHYEON LEE, BORIS G. SARTAKOV, GERARD MEIJER, SANDRA EIBENBERGER-ARIAS
MO 4.1	Mon	17:00–17:30	P 105	A two-color glimpse at nanomatter: ultrafast movies coming soon. — •ALESSANDRO COLOMBO, LINOS HECHT, DANIELA RUPP
MO 5.1	Mon	17:00–17:30	P 204	Charge migration in aromatic amino acids — •SABINE ROCKENSTEIN
MO 8.1	Tue	11:00–11:30	P 105	Observation of diffraction oscillations and low-energy resonances in elastic collisions between He Rydberg atoms and HD molecules — •ARIJIT DAS, YUFENG WANG, KARL HORN, PIOTR ZUCHOWSKI, JULIA NAREVICIUS, EDVARDAS NAREVICIUS
MO 9.1	Tue	11:00–11:30	P 110	All-Optical Enantiomeric Conversion Observed in a Femtosecond Molecular Movie — •NICOLAS LADDA, FABIAN WESTMEIER, TONIO ROSEN, SUDHEENDRAN VASUDEVAN, SIMON RANECKY, SAGNIK DAS, KRISHNA SINGH, HENDRIKE BRAUN, JOCHEN MIKOSCH, THOMAS BAUMERT, ARNE SENTLEBEN
MO 23.1	Thu	11:00–11:30	P 110	Large circular dichroism in the total photoemission yield of free chiral nanoparticles created by a pure electric dipole effect — •SEBASTIAN HARTWEG, DUŠAN K. BOŽANIĆ, GUSTAVO A. GARCIA-MACIAS, LAURENT NAHON
MO 24.1	Thu	11:00–11:30	P 204	Electronic Spectra of Doped Diamondoid Cations — •PARKER CRANDALL, RONJA SCHRAMM, SEBASTIAN VÖLZ, DOMENIK SCHLEIER, OTTO DOPFER
MO 26.1	Thu	14:30–15:00	P 110	Differentiating Between Enantiomers with Nuclear Quadrupole Coupling Using Microwave Three-Wave Mixing — •FREYA E. L. BERGGÖTZ, MONIKA LEIBSCHER, WENHAO SUN, CHRISTIANE P. KOCH, MELANIE SCHNELL
MO 29.1	Thu	15:15–15:45	P 105	Charge and electronics in molecule activation by transition metal clusters — •GEREON NIEDNER-SCHATTEBURG, NILS WOLFGAMM, CHRISTOPH VAN WÜLLEN
MO 32.1	Fri	11:00–11:30	P 204	Time-resolved photoelectron spectroscopy of polycyclic hydrocarbons in rare-gas clusters — •LEONIE WERNER, ULRICH BANGERT, SEBASTIAN HARTWEG, YILIN LI, ARNE MORLOK, FELIX RIEDEL, FRANK STIENKEMEIER, LUKAS BRUDER

Invited Talks of the joint Symposium SAMOP Dissertation Prize 2026 (SYAD)

See SYAD for the full program of the symposium.

SYAD 1.1	Mon	14:30–15:00	RW 1	What graphs can tell us about quantum information — •KIARA HANSENNE
SYAD 1.2	Mon	15:00–15:30	RW 1	Realization of alkaline-earth circular Rydberg qubits in optical tweezer arrays — •CHRISTIAN HÖLZL
SYAD 1.3	Mon	15:30–16:00	RW 1	Pattern Formation and Supersolid-like Sound Modes in a Driven Superfluid — •NIKOLAS LIEBSTER
SYAD 1.4	Mon	16:00–16:30	RW 1	Harnessing time-frequency qudits using integrated nonlinear processes — •LAURA SERINO

Invited Talks of the joint Symposium Spin-Boson Models (SYSB)

See SYSB for the full program of the symposium.

SYSB 1.1	Tue	11:00–11:30	RW 1	Tailoring the quantum dynamics of spins with bosonic baths — •GIOVANNA MORIGI
SYSB 1.2	Tue	11:30–12:00	RW 1	Spins, Qubits, and Bosons — •GUIDO BURKARD
SYSB 1.3	Tue	12:00–12:30	RW 1	Spin-boson models under strong ac-driving — •MILENA GRIFONI
SYSB 1.4	Tue	12:30–13:00	RW 1	Kibble-Zurek scenario for melting of discrete time crystals — •PHATTHAMON KONGKHAMBUT, HANS KESSLER, ROY D. JARA JR., JAYSON G. COSME, ANDREAS HEMMERICH

Invited Talks of the joint Symposium Selected Highlights of AMOP in Austria (SYAU)

See SYAU for the full program of the symposium.

SYAU 1.2	Wed	11:15–11:45	RW 1	Supersolidity: When Superfluid Flow Meets Crystalline Order — •FRANCESCA FERLAINO
SYAU 1.3	Wed	11:45–12:15	RW 1	Charged Helium Nanodroplets: A Cold Laboratory for Molecular Ions — •ELISABETH GRUBER
SYAU 1.4	Wed	12:15–12:45	RW 1	Advances in Broadband Saturation Spectroscopy: Towards Probing New Physics in the Mid-Infrared — •OLIVER HECKL
SYAU 1.5	Wed	12:45–13:15	RW 1	Precision laser spectroscopy of the Thorium-229 nuclear transition — •THORSTEN SCHUMM

Invited Talks of the joint Symposium Light and Chirality: From Fundamentals to Applications (SYLC)

See SYLC for the full program of the symposium.

SYLC 1.1	Wed	14:30–15:00	RW 1	Enantio-sensitive molecular compass — P. M. FLORES, S. CARLSTROEM, S. PATCHKOVSKII, M. IVANOV, V. MUJICA, A. F. ORDONEZ, •O. SMIRNOVA
SYLC 1.2	Wed	15:00–15:30	RW 1	Conjugation, chirality and optical activity — •MATTHEW FUCHTER
SYLC 1.3	Wed	15:30–16:00	RW 1	Gas-phase spectroscopy of chiral molecules — •ANNE ZEHNACKER, ETIENNE ROUQUET, VALÉRIA LEPÈRE, GUSTAVO GARCIA, LAURENT NAHON
SYLC 1.4	Wed	16:00–16:30	RW 1	Toward a low-energy test of the parity symmetry via precise mid-IR spectroscopy of cold chiral molecules — AGATHE BONIFACIO, SAHIL VIEL, RAPHAËL HAHN, MINH NHUT NGO, MARYLISE SAFFRE, YUHAO LIU, WENLING DONG, ETIENNE CANTIN, OLIVIER LOPEZ, ANNE AMY-KLEIN, MATHIEU MANCEAU, •BENOÎT DARQUIÉ

Invited Talks of the joint Symposium Interactions with Negatively Charged Molecules (SYIN)

See SYIN for the full program of the symposium.

SYIN 1.1	Thu	11:00–11:30	RW 1	Negative ion studies at ISOLDE: from radioactive atoms to molecules — •JESSICA WARBINEK
SYIN 1.2	Thu	11:30–12:00	RW 1	Leak-out spectroscopy in cryogenic ion traps — •STEPHAN SCHLEMMER, OSKAR ASVANY, SVEN THORWIRTH, PHILIPP SCHMID, WESLEY SILVA, THOMAS SALOMON
SYIN 1.3	Thu	12:00–12:30	RW 1	Studies of negative ions in a cryogenic storage ring using laser driven state manipulation — •DAG HANSTORP

SYIN 1.4	Thu	12:30–13:00	RW 1	Photodetachment spectroscopy and reactions of negative molecular ions — •ROLAND WESTER
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Invited Talks of the joint Symposium Tests of Fundamental Physics with AMO Systems (SYFP)

See SYFP for the full program of the symposium.

SYFP 1.1	Fri	11:00–11:30	RW 1	Searches for new bosons with isotope shift spectroscopy and the thorium nuclear transition — •ELINA FUCHS
SYFP 1.2	Fri	11:30–12:00	RW 1	Precision spectroscopy of muonic atoms — •RANDOLF POHL
SYFP 1.3	Fri	12:00–12:30	RW 1	Quantum-Controlled Molecules for Fundamental Physics and Quantum Science — •NICHOLAS HUTZLER
SYFP 1.4	Fri	12:30–13:00	RW 1	Testing Baryon Asymmetry with Antiprotons — •STEFAN ULMER

Sessions

MO 1.1–1.6	Mon	11:30–13:15	P 105	Ultrafast Structural Dynamics
MO 2.1–2.4	Mon	11:30–13:00	P 110	Chirality I
MO 3.1–3.5	Mon	11:45–13:00	N 2	Collisions, Scattering and Correlation Phenomena I (joint session A/MO)
MO 4.1–4.7	Mon	17:00–19:00	P 105	Novel Experimental Approaches and Novel Theoretical and Computational Approaches
MO 5.1–5.6	Mon	17:00–18:45	P 204	Ultrafast Electronic Dynamics
MO 6.1–6.6	Mon	17:00–18:45	N 1	Attosecond physics I (joint session A/MO)
MO 7.1–7.8	Mon	17:00–19:00	N 2	Collisions, Scattering and Correlation Phenomena II (joint session A/MO)
MO 8.1–8.8	Tue	11:00–13:15	P 105	Cold Molecules (joint session MO/Q)
MO 9.1–9.7	Tue	11:00–13:00	P 110	Chirality II
MO 10.1–10.5	Tue	17:00–19:00	Philo 1. OG	Poster – Ultrafast Structural Dynamics
MO 11.1–11.9	Tue	17:00–19:00	Philo 1. OG	Poster – Chirality
MO 12.1–12.2	Tue	17:00–19:00	Philo 1. OG	Poster – Novel Experimental Approaches and Novel Theoretical and Computational Approaches
MO 13.1–13.7	Tue	17:00–19:00	Philo 1. OG	Poster – Ultrafast Electronic Dynamics
MO 14	Wed	13:30–14:00	P 110	Members’ Assembly
MO 15.1–15.6	Wed	14:30–16:15	N 2	Interaction with strong or short laser pulses I (joint session A/MO)
MO 16.1–16.7	Wed	17:00–19:00	Philo 1. OG	Poster – Attosecond Physics (joint session A/MO)
MO 17.1–17.4	Wed	17:00–19:00	Philo 1. OG	Poster – Interaction with VUV and X-ray Light (joint session A/MO)
MO 18.1–18.3	Wed	17:00–19:00	Philo 1. OG	Poster – Interaction with Strong or Short Laser Pulses (joint session A/MO)
MO 19.1–19.3	Wed	17:00–19:00	Philo 1. OG	Poster – Contributions to SYLC
MO 20.1–20.4	Wed	17:00–19:00	Philo 1. OG	Poster – Molecular Collisions and Kinetics
MO 21.1–21.8	Wed	17:00–19:00	Philo 1. OG	Poster – Cluster and Nanoparticles (joint session MO/A)
MO 22.1–22.5	Wed	17:00–19:00	Philo 1. OG	Poster – Cold Molecules (joint session MO/Q)
MO 23.1–23.6	Thu	11:00–12:45	P 110	Contributions to SYLC I
MO 24.1–24.6	Thu	11:00–12:45	P 204	Molecular Spectroscopy I
MO 25.1–25.3	Thu	14:30–15:15	P 105	Molecular Collisions and Kinetics
MO 26.1–26.6	Thu	14:30–16:15	P 110	Contributions to SYLC II
MO 27.1–27.8	Thu	14:30–16:30	P 204	Molecular Spectroscopy II
MO 28.1–28.7	Thu	14:30–16:30	N 2	Interaction with VUV and X-ray light I (joint session A/MO)
MO 29.1–29.5	Thu	15:15–16:45	P 105	Cluster and Nanoparticles (joint session MO/A)
MO 30.1–30.22	Thu	17:00–19:00	Philo 1. OG	Poster – Molecular Spectroscopy
MO 31.1–31.3	Thu	17:00–19:00	Philo 1. OG	Poster – Collisions, Scattering and Correlation Phenomena (joint session A/MO)
MO 32.1–32.7	Fri	11:00–13:00	P 204	Molecular Spectroscopy III

Members' Assembly of the Molecular Physics Division

Wednesday 13:30–14:00 P 110