

Molecular Physics Division Fachverband Molekülphysik (MO)

Stephan Schlemmer
I. Physikalisches Institut
Universität zu Köln
Zülpicher Straße 77
50937 Köln
schlemmer@ph1.uni-koeln.de

Overview of Invited Talks and Sessions

(Lecture halls H1, H2, and H3; Poster P)

Invited Talks

MO 1.1	Mon	10:45–11:15	H2	Long-range interactions between polar molecules and Rydberg atoms — •MARTIN ZEPPENFELD
MO 3.1	Tue	10:45–11:15	H3	Photoelectron circular dichroism in the light of resonance enhanced multi-photon ionization — •THOMAS BAUMERT

Invited talks of the joint symposium Trends in atom interferometry (SYAI)

See SYAI for the full program of the symposium.

SYAI 1.1	Mon	14:00–14:30	Audimax	Atom interferometry and its applications for gravity sensing — •FRANCK PEREIRA DOS SANTOS, LUC ABSIL, YANN BALLAND, SÉBASTIEN MERLET, MAXIME PESCHE, RAPHAËL PICCON, SUMIT SARKAR
SYAI 1.2	Mon	14:30–15:00	Audimax	Atom interferometry for advanced geodesy and gravitational wave observation — •PHILIPPE BOUYER
SYAI 1.3	Mon	15:00–15:30	Audimax	3D printing methods for portable quantum technologies — •LUCIA HACKERMÜLLER
SYAI 1.4	Mon	15:30–16:00	Audimax	Fundamental physics with atom interferometry — •PAUL HAMILTON

Invited talks of the joint symposium SAMOP Dissertation Prize 2021 (SYAD)

See SYAD for the full program of the symposium.

SYAD 1.1	Tue	10:45–11:15	Audimax	Attosecond-fast electron dynamics in graphene and graphene-based interfaces — •CHRISTIAN HEIDE
SYAD 1.2	Tue	11:15–11:45	Audimax	About the interference of many particles — •CHRISTOPH DITTEL
SYAD 1.3	Tue	11:45–12:15	Audimax	Supersolid Arrays of Dipolar Quantum Droplets — •FABIAN BÖTTCHER
SYAD 1.4	Tue	12:15–12:45	Audimax	Quantum Logic Spectroscopy of Highly Charged Ions — •PETER MICKE

Invited talks of the joint symposium Chirality meets ultrafast (SYCU)

See SYCU for the full program of the symposium.

SYCU 1.1	Tue	14:00–14:30	Audimax	Overview of the temporal dependencies of Photoelectron Circular Dichroism — •VALERIE BLANCHET
SYCU 1.2	Tue	14:30–14:45	Audimax	Ultrafast, all-optical, and highly enantio-sensitive imaging of molecular chirality — •DAVID AYUSO
SYCU 1.3	Tue	14:45–15:00	Audimax	Hyperfine interactions in rotational chiral states — •ANDREY YACHMENEV

SYCU 1.4	Tue	15:00–15:30	Audimax	Chiral molecules in an optical centrifuge — ●VALERY MILNER, ALEXANDER MILNER, ILIA TUTUNNIKOV, ILYA AVERBUKH
SYCU 1.5	Tue	15:30–16:00	Audimax	Enantiomer-selective controllability of asymmetric top molecules — ●MONIKA LEIBSCHER

Invited talks of the joint symposium Awards Symposium (SYAW)

See SYAW for the full program of the symposium.

SYAW 1.1	Wed	13:30–14:15	Audimax	Frequency comb spectroscopy and interferometry — ●NATHALIE PICQUÉ
SYAW 1.2	Wed	14:15–15:00	Audimax	Capitalizing on Schrödinger — ●WOLFGANG P. SCHLEICH
SYAW 1.3	Wed	15:00–15:45	Audimax	Quantum information processing with macroscopic objects — ●EUGENE POLZIK

Invited talks of the joint symposium Hot topics in cold molecules: From laser cooling to quantum resonances (SYCM)

See SYCM for the full program of the symposium.

SYCM 1.1	Fri	14:00–14:30	Audimax	Collisions between laser-cooled molecules and atoms — ●MICHAEL TARBUTT
SYCM 1.2	Fri	14:30–15:00	Audimax	Trapped Laser-cooled Molecules for Quantum Simulation, Particle Physics, and Collisions — ●JOHN DOYLE
SYCM 1.3	Fri	15:00–15:30	Audimax	Quantum-non-demolition state detection and spectroscopy of single cold molecular ions in traps — ●STEFAN WILLITSCH
SYCM 1.4	Fri	15:30–16:00	Audimax	Quantum state tomography of Feshbach resonances in molecular ion collisions via electron-ion coincidence spectroscopy — ●EDVARDAS NAREVICIUS

Sessions

MO 1.1–1.5	Mon	10:45–12:15	H2	Electronic
MO 2.1–2.6	Mon	14:00–15:30	H2	Cluster & Complexes
MO 3.1–3.8	Tue	10:45–13:00	H3	Chirality
MO 4	Wed	13:00–13:30	MVMO	Annual General Meeting
MO 5.1–5.6	Thu	10:45–12:15	H2	Miscellaneous
MO 6.1–6.6	Thu	14:00–15:30	H2	Ultrafast
MO 7.1–7.24	Thu	17:30–19:30	P	Poster 1
MO 8.1–8.8	Fri	10:45–12:45	H1	Cold Molecules
MO 9.1–9.17	Fri	17:30–19:30	P	Poster 2

Annual General Meeting of the Molecular Physics Division

Wednesday 13:30–14:00 MVMO