Molecular Physics Division
Fachverband Molekülphysik (MO)

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Overview of Invited Talks and Sessions

(Lecture rooms S HS 001 Biologie and S HS 002 Biologie; Poster S Foyer LLM)

Invited Talks

MO 3.1	Mon	10:30–11:00	S HS 001 Biologie	**Solvent-Specific Facets in the Ultrafast Photochemistry of Reactive Intermediates** — Johannes Knorr, Pandian Sokkar, Svenja Wortmann, Paolo Costa, Niklas Gessner, Julien Rowen, Wolfram Sander, Elsa Sanchez-Garcia, •Patrick Nuernberger
MO 4.1	Mon	10:30–11:00	S HS 002 Biologie	**Determination of Excited State Dipole Moments for Complex Systems - From Gas to the Condensed Phase** — •Michael Schmitt, Marie-Luise Hebestreit, Mirko Lindic, Matthias Zajonz, Michael Schneider
MO 6.1	Mon	14:00–14:30	S HS 001 Biologie	**Investigation of structures and electronic states of transition metal containing complexes *via* transient FTIR spectroscopy** — Patrick Di Martino-Fumo, Pit Boden, Jasmin Busch, Sven Otto, Katja Heinze, Stefan Bräse, •Markus Gerhards
MO 11.1	Wed	10:30–11:00	S HS 001 Biologie	**Properties of multiazobenzene systems - old dogs and new tricks** — •Chavdar Slavov, Chong Yang, Luca Schweighauser, Andreas H. Heindl, Tim Stauch, Hermann A. Wegner, Andreas Dreuw, Josef Wachtveitl
MO 19.1	Thu	10:30–11:00	S HS 001 Biologie	**Optical spectroscopy of small metal clusters: a deeper look at Au_4^+** — •Marko Förstel, Wolfgang Schewe, Otto Dopfer
MO 21.1	Thu	14:00–14:30	S HS 001 Biologie	**Influence of Local and External Electric Fields on the Ultrafast Dynamics of Charge Pairs Photo-Generated in Poly-[3-Hexylthiophene] (P3HT)** — Debkumar Rana, Tahirzeb Khan, Patrice Donfack, Vladislav Jovanov, Veit Wagner, •Arnulf Materny
MO 23.1	Fri	10:30–11:00	S HS 001 Biologie	**Efficient charge transfer by electron transfer mediated decay mechanism** — •Kirill Gokhberg

Invited talks of the joint symposium SYPS

See SYPS for the full program of the symposium.

SYPS 1.1	Mon	14:00–14:30	U Audimax	**Optimal control of many-body quantum systems** — •Simone Montangero
SYPS 1.2	Mon	14:30–15:00	U Audimax	**Light matter quantum interface based on single colour centres in diamond** — •Fedor Jelezko
SYPS 1.3	Mon	15:00–15:30	U Audimax	**Principles of Quantum Systems Theory and Control Engineering** — •Thomas Schulte-Herbrüggen
SYPS 1.4	Mon	15:30–16:00	U Audimax	**Quantum metrology with Rydberg atoms** — •Sebastien Gleyzes, Arthur Larrouy, Remi Richaud, Sabrina Patsch, Jean-Michel Raimond, Michel Brune, Christiane Koch

Invited talks of the joint symposium SYAD

See SYAD for the full program of the symposium.

SYAD 1.1	Tue	10:30–11:00	U Audimax	**Quantum States and their Marginals: from Multipartite Entanglement to Quantum Error-Correcting Codes** — •Felix Huber
SYAD 1.2	Tue	11:00–11:30	U Audimax	**The Uniform Electron Gas at Warm Dense Matter Conditions** — •Simon Groth
SYAD 1.3	Tue	11:30–12:00	U Audimax	**Relativistically intense laser-microplasma interactions (and potential applications)** — •Tobias Ostermayer
SYAD 1.4	Tue	12:00–12:30	U Audimax	**Motional quantum state engineering for quantum logic spectroscopy of molecular ions** — •Fabian Wolf

Invited talks of the joint symposium SYXR

See SYXR for the full program of the symposium.

SYXR 1.1	Thu	14:00–14:30	U Audimax	**Superradiance of an ensemble of nuclei excited by a free electron laser** — •Aleksandr Chumakov
SYXR 1.2	Thu	14:30–15:00	U Audimax	**Quantum imaging with incoherently scattered light from a Free-Electron Laser** — •Joachim von Zanthier
SYXR 1.3	Thu	15:00–15:30	U Audimax	**Stimulated X-Ray Emission Spectroscopy for Chemical Analysis** — •Nina Rohringer
SYXR 1.4	Thu	15:30–16:00	U Audimax	**X-Ray Multiphoton Ionization of Atoms and Molecules** — •Daniel Rolles

Sessions

MO 1.1–1.2	Sun	16:00–18:00	U HS 224	**Tutorial Molecular Spectroscopy (joint session AKjDPG/MO)**
MO 2.1–2.7	Mon	10:30–12:15	S HS 1 Physik	**Ultra-cold atoms and molecules I (joint session A/MO/Q)**
MO 3.1–3.7	Mon	10:30–12:30	S HS 001 Biologie	**Ultrafast Processes in Solution**
MO 4.1–4.7	Mon	10:30–12:30	S HS 002 Biologie	**Electronic Spectroscopy**
MO 5.1–5.8	Mon	14:00–16:00	S HS 1 Physik	**Ultra-cold atoms and molecules II (joint session A/MO/Q)**
MO 6.1–6.7	Mon	14:00–16:00	S HS 001 Biologie	**Metal Complexes**
MO 7.1–7.8	Mon	14:00–16:00	S HS 002 Biologie	**Experimental Techniques**
MO 8.1–8.6	Mon	16:15–17:45	S HS 001 Biologie	**XUV and X-ray Excitation and Spectroscopy**
MO 9.1–9.6	Mon	16:15–17:45	S HS 002 Biologie	**Molecules in Intense Laser Fields**
MO 10.1–10.20	Tue	16:30–18:30	S Foyer LLM	**Posters 1: Cold Molecules, High Resolution Spectroscopy, and Theory**
MO 11.1–11.7	Wed	10:30–12:30	S HS 001 Biologie	**Photochemistry**
MO 12.1–12.8	Wed	10:30–12:30	S HS 002 Biologie	**High Resolution Spectroscopy and Precision Experiments**
MO 13	Wed	12:45–13:45	S HS 001 Biologie	**Annual General Meeting of the Molecular Physics Devision**
MO 14.1–14.8	Wed	14:00–16:00	S HS 001 Biologie	**Ultrafast Multidimensional and Control Approaches**
MO 15.1–15.8	Wed	14:00–16:00	S HS 002 Biologie	**Cold Molecules (joint session MO/A)**
MO 16.1–16.7	Wed	14:00–16:15	S HS 3 Physik	**Cluster I (joint session A/MO)**
MO 17.1–17.10	Wed	16:15–18:15	S Fobau Physik	**Cluster II (joint session A/MO)**
MO 18.1–18.20	Wed	16:15–18:15	S Foyer LLM	**Posters 2: Time Resolved Spectroscopy**
MO 19.1–19.7	Thu	10:30–12:30	S HS 001 Biologie	**Cluster III (joint session MO/A)**
MO 20.1–20.8	Thu	10:30–12:30	S HS 002 Biologie	**Atomic Physics, Molecular Physics, and Quantum Optics with X-ray FELs (joint session MO/A)**
MO 21.1–21.7	Thu	14:00–16:00	S HS 001 Biologie	**Coupled Systems**
MO 22.1–22.20	Thu	16:15–18:15	S Foyer LLM	**Posters 3: Cluster, Strong Field Physics, and Experimental Techniques**
MO 23.1–23.7	Fri	10:30–12:30	S HS 001 Biologie	**Molecular Theory**
MO 24.1–24.8	Fri	10:30–12:30	S HS 002 Biologie	**Large and Reactive Systems**

Annual General Meeting of the Molecular Physics Division

Wednesday 12:45–13:45 S HS 001 Biologie