

Mass Spectrometry Division Fachverband Massenspektrometrie (MS)

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Overview of Invited Talks and Sessions

(Lecture hall HS 3042; Poster Foyer Aula)

Invited Talks

MS 1.1	Mon	11:00–11:30	HS 3042	High precision determination of nuclear mass ratios of stable even Yb isotopes to probe for fifth force mediators — •MENNO DOOR, LUCIA ENSMANN, PAVEL FILIANIN, ZOLTÁN HARMAN, JOST HERKENHOFF, CHRISTOPH H. KEITEL, KATHRIN KROMER, DANIEL LANGE, CHUNHAI LYU, JAN NÄGELE, ALEXANDER RISCHKA, CHRISTOPH SCHWEIGER, SERGEY ELISEEV, KLAUS BLAUM
MS 2.1	Mon	17:00–17:30	HS 3042	Measurement of the bound-state beta decay of $^{205}\text{Tl}^{81+}$ ions at heavy-ion storage ring — •RUIJIU CHEN, JAN GLORIUS, GUY LECKENBY, YURY A LITVINOV, MARIA LUGARO, RICCARDO MANCINO, MOHAMMAD SHAHAB SANJARI, RAGANDEEP SINGH SIDHU, BALAZS SZANYI
MS 3.1	Tue	11:00–11:30	HS 3042	Recent Developments at CologneAMS — •DENNIS MÜCHER
MS 5.1	Wed	11:00–11:30	HS 3042	Laser spectroscopy studies of heavy actinides — •DOMINIK STUDER
MS 6.1	Wed	17:00–17:30	HS 3042	Can we tame neutrons with a storage ring? — •IRIS DILLMANN
MS 7.1	Thu	11:00–11:30	HS 3042	High-precision mass measurements for nuclear structure and nuclear astrophysics — •ANU KANKAINEN
MS 9.1	Fri	11:00–11:30	HS 3042	Influx of interstellar ^{60}Fe and ^{244}Pu onto Earth within the last 10 million years recorded in a ferromanganese crust — •DOMINIK KOLL, ANTON WALLNER, MICHAEL HOTCHKIS, SEBASTIAN FICHTER, L. KEITH FIFIELD, MICHAELA FROELICH, MICHl HARTNETT, JOHANNES LACHNER, STEFAN PAVETICH, GEORG RUGEL, ZUZANA SLAVKOVSKA, STEVE TIMS

Invited Talks of the joint Symposium SAMOP Dissertation Prize 2024 (SYAD)

See SYAD for the full program of the symposium.

SYAD 1.1	Mon	14:30–15:00	Paulusaal	Quantum steering of a Szilárd engine — •KONSTANTIN BEYER
SYAD 1.2	Mon	15:00–15:30	Paulusaal	Does a disordered Heisenberg quantum spin system thermalize? — •TITUS FRANZ
SYAD 1.3	Mon	15:30–16:00	Paulusaal	Quantum optical few-mode models for lossy resonators — •DOMINIK LENTRODT
SYAD 1.4	Mon	16:00–16:30	Paulusaal	Non-Hermitian topology and directional amplification — •CLARA WANJURA

Invited Talks of the joint Symposium Coulomb Explosion Imaging (SYCE)

See SYCE for the full program of the symposium.

SYCE 1.1	Tue	11:00–11:30	Paulusaal	Dissociation of halogenated organic molecules induced by soft X-rays – pathways and early stages — •EDWIN KUKK
SYCE 1.2	Tue	11:30–12:00	Paulusaal	X-ray induced Coulomb explosion imaging with channel-selectivity — •REBECCA BOLL
SYCE 1.3	Tue	12:00–12:30	Paulusaal	Time-resolved Coulomb Explosion Imaging using X-ray Free-Electron Lasers — •TILL JAHNKE

SYCE 1.4	Tue	12:30–13:00	Paulussaal	Dynamics and control of microsolvated biomolecules studied by Coulomb explosion imaging — ●SEBASTIAN TRIPPEL, JOCHEN KÜPPER
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Prize Talks of the joint Awards Symposium (SYAS)

See SYAS for the full program of the symposium.

SYAS 1.1	Tue	15:00–15:30	Paulussaal	Quantum Simulations with Atoms, Molecules and Photons — ●IMMANUEL BLOCH
SYAS 1.2	Tue	15:30–16:00	Paulussaal	Spectroscopy of molecules with large amplitude motions: a journey from molecular structure to astrophysics. — ●ISABELLE KLEINER
SYAS 1.3	Tue	16:00–16:30	Paulussaal	Quantum x-ray nuclear optics: progress and prospects — ●OLGA KOCHAROVSKAYA
SYAS 1.4	Tue	16:30–17:00	Paulussaal	3D printed complex microoptics: fundamentals and first benchmark applications — ●HARALD GIESSEN

Invited Talks of the joint Symposium Size Selected Metal Cluster Spectroscopies (SYMC)

See SYMC for the full program of the symposium.

SYMC 1.1	Thu	11:00–11:30	Paulussaal	Infrared spectroscopic studies of molecular activation at metal clusters — ●STUART MACKENZIE
SYMC 1.2	Thu	11:30–12:00	Paulussaal	Dynamic metal-metal cooperation in chemical reactions — ●JANA ROITHOVÁ
SYMC 1.3	Thu	12:00–12:30	Paulussaal	A closer look at the electronic structure of simple metal clusters — ●BERND VON ISSENDORFF
SYMC 1.4	Thu	12:30–13:00	Paulussaal	IR action spectroscopy of metal clusters, complexes and diatomics with free electron lasers — ●ANDRÉ FIELICKE

Sessions

MS 1.1–1.7	Mon	11:00–13:00	HS 3042	Precision Mass Spectrometry
MS 2.1–2.8	Mon	17:00–19:15	HS 3042	New Methods, Applications, Storage Rings
MS 3.1–3.7	Tue	11:00–13:00	HS 3042	Accelerator Mass Spectrometry I
MS 4.1–4.14	Tue	17:00–19:00	Aula Foyer	Poster
MS 5.1–5.7	Wed	11:00–13:00	HS 3042	Heavy and Superheavy Nuclei
MS 6.1–6.7	Wed	17:00–19:00	HS 3042	New Methods, AMS II, Applications, Actinides
MS 7.1–7.7	Thu	11:00–13:00	HS 3042	Accelerator Mass Spectrometry III
MS 8	Thu	13:00–14:00	HS 3042	Members' Assembly
MS 9.1–9.7	Fri	11:00–13:00	HS 3042	Accelerator Mass Spectrometry IV

Members' Assembly of the Mass Spectrometry Division

Thursday 13:00–14:00 HS 3042

- Report
- Poster Prize Award
- Miscellaneous