

Mass Spectrometry Division Fachverband Massenspektrometrie (MS)

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Overview of Invited Talks and Sessions

(Lecture room: DO24 1.205)

Invited Talks

MS 1.1	Mon	10:30–11:00	DO24 1.205	Mass spectrometry in planetary sciences — ●INGO LEYA
MS 2.1	Mon	14:00–14:30	DO24 1.205	A Phase-Imaging Ion-Cyclotron-Resonance Technique for Mass Measurements of short-lived Nuclides — ●SERGEY ELISEEV
MS 3.1	Mon	16:30–17:00	DO24 1.205	Precision Measurements with the Multi-Reflection Time-of-Flight Mass Spectrometer of ISOLTRAP at ISOLDE/CERN — ●FRANK WIENHOLTZ
MS 4.1	Tue	14:00–14:30	DO24 1.205	The Cryogenic Storage Ring Project — ●ROBERT VON HAHN
MS 5.1	Tue	16:30–17:00	DO24 1.205	Quantitative Elemental and Molecular Mass Spectrometry for Biological Application — ●MICHAEL LINSCHIED
MS 7.1	Wed	16:30–17:00	DO24 1.205	Mass spectrometry of exotic nuclear species for the study of neutron stars — ●DAVID LUNNEY
MS 7.2	Wed	17:00–17:30	DO24 1.205	High-resolution spectroscopy of (deuterated) molecular ions — ●OSKAR ASVANY
MS 8.1	Thu	10:30–11:00	DO24 1.205	Komponenten-spezifische Radiokohlenstoffanalysen: Technische Aspekte und geowissenschaftliche Anwendungen — ●JANET RETHEMEYER
MS 9.1	Thu	14:00–14:30	DO24 1.205	Progress at DREsden AMS — ●GEORG RUGEL
MS 10.1	Thu	16:30–17:00	DO24 1.205	Towards a compact multi isotope AMS system - status and applications — ●MARCUS CHRISTL
MS 11.1	Fri	10:30–11:00	DO24 1.205	Environmental sample analysis by SIMS in the search for undeclared nuclear activities — ●MAGNUS HEDBERG

Invited talks of the joint symposium SYAD

See SYAD for the full program of the symposium.

SYAD 1.1	Tue	10:30–11:00	Audimax	Rotationally resolved fluorescence spectroscopy - from neurotransmitter to conical intersection — ●CHRISTIAN BRAND
SYAD 1.2	Tue	11:00–11:30	Audimax	Quantum simulations with ultracold atoms: Beyond standard optical lattices — ●PHILIPP HAUKE
SYAD 1.3	Tue	11:30–12:00	Audimax	Degenerate quantum gases of alkaline-earth atoms — ●SIMON STELLMER
SYAD 1.4	Tue	12:00–12:30	Audimax	One step beyond entanglement: general quantum correlations and their role in quantum information theory — ●ALEXANDER STRELTSOV

Invited talks of the joint symposium SYSE

See SYSE for the full program of the symposium.

SYSE 1.1	Wed	14:00–14:30	Audimax	Addressing open questions of stellar evolution with laboratory experiments — ●ALMUDENA ARCONES
SYSE 1.2	Wed	14:30–15:00	Audimax	Methods and problems of the modern theory of stellar evolution — ●ACHIM WEISS
SYSE 1.3	Wed	15:00–15:30	Audimax	Photoabsorption and opacity in the X-ray region: The role of highly charged ions — ●JOSÉ R. CRESPO LÓPEZ-URRUTIA
SYSE 1.4	Wed	15:30–16:00	Audimax	Neutron-rich matter: From cold atoms to neutron stars — ●ACHIM SCHWENK

Invited talks of the joint symposium SYPS

See SYPS for the full program of the symposium.

SYPS 1.1	Thu	14:10–14:40	Audimax	Oxygen and imaging, a perfect match — ●DAVID PARKER
SYPS 1.2	Thu	14:40–15:10	Audimax	Attosecond imaging — ●MARC VRACKING
SYPS 1.4	Thu	15:25–15:55	Audimax	Applications of the fast imaging Pixel Imaging Mass Spectrometry camera — ●MARK BROUARD
SYPS 2.1	Thu	16:30–17:00	Audimax	Unraveling the dynamics of state- and conformer selected molecules fixed in space with the VMI — ●JOCHEN KÜPPER
SYPS 2.3	Thu	17:15–17:45	Audimax	Velocity map imaging: from molecules to clusters, nanoparticles and aerosols — ●MICHAL FARNIK, VIKTORIYA POTERYA, JOZEF LENGYEL, ANDRIY PYSANENKO, PAVLA SVRCKOVA, JAROSLAV KOCISEK
SYPS 2.5	Thu	18:00–18:30	Audimax	Velocity map imaging studies of quantum state resolved scattering at gas-solid and gas-SAMs surfaces — ●DAVID J. NESBITT, MONIKA GRUETTER, J. ROBERT ROSCIOLI, CARL HOFFMAN, DANIEL J. NELSON

Invited talks of the joint symposium SYQS

See SYQS for the full program of the symposium.

SYQS 1.1	Fri	10:30–11:15	Audimax	Tutorial Complex Systems: From Classical to Quantum, from Single to Many Particle Problems — ●KLAUS RICHTER
SYQS 1.2	Fri	11:30–12:00	Audimax	Multiphoton random walks: Experimental Boson Sampling on a photonic chip — ●IAN WALMSLEY, JUSTIN SPRING, BEN METCALF, PETER HUMPHREYS, STEVE KOLTHAMMER, XIANMIN JIN, ANIMESH DATTA, JAMES GATES, PETER SMITH
SYQS 2.1	Fri	14:00–14:30	Audimax	Charge transfer and quantum coherence in solar cells and artificial light harvesting systems — ●CHRISTOPH LIENAU
SYQS 2.6	Fri	15:30–16:00	Audimax	Feedback control: from Maxwell's demon to quantum phase transitions — ●TOBIAS BRANDES
SYQS 3.4	Fri	17:15–17:45	Audimax	Multi-photon dynamics in complex integrated structures — ●FABIO SCIARRINO
SYQS 3.5	Fri	17:45–18:15	Audimax	Complexity and many-boson coherence — ●MALTE TICHY

Sessions

MS 1.1–1.7	Mon	10:30–12:30	DO24 1.205	New Mass Spectrometric Methods and Technical Developments
MS 2.1–2.5	Mon	14:00–15:30	DO24 1.205	Precision Mass Spectrometry 1/ RIMS
MS 3.1–3.4	Mon	16:30–17:45	DO24 1.205	Precision Mass Spectrometry 2
MS 4.1–4.4	Tue	14:00–15:15	DO24 1.205	Ion Storage Rings
MS 5.1–5.4	Tue	16:30–17:45	DO24 1.205	Molecules, Clusters, Decay and Reactions
MS 6.1–6.18	Wed	14:00–14:00	DO24 Foyer	Poster
MS 7.1–7.5	Wed	16:30–18:15	DO24 1.205	Fathoming Stellar Evolution (Part 2)
MS 8.1–8.7	Thu	10:30–12:30	DO24 1.205	Accelerator Mass Spectrometry and Applications 1
MS 9.1–9.7	Thu	14:00–16:00	DO24 1.205	Accelerator Mass Spectrometry and Applications 2
MS 10.1–10.7	Thu	16:30–18:30	DO24 1.205	Accelerator Mass Spectrometry and Applications 3
MS 11.1–11.7	Fri	10:30–12:30	DO24 1.205	SIMS / Accelerator Mass Spectrometry and Applications 4

Annual General Meeting of the Mass Spectrometry Division

Dienstag 15:30–16:00 DO24 1.205

- Begrüßung
- Bericht des MS Vorsitzenden
- Vorschläge für Symposien
- Verschiedenes