

Mass Spectrometry Division Fachverband Massenspektrometrie (MS)

Michael Block
Helmholtz-Institut Mainz
Staudingerweg 18
55099 Mainz
M.Block@gsi.de

Overview of Invited Talks and Sessions

(Lecture halls H2 and H3; Poster P)

Invited Talks

MS 1.1	Mon	10:45–11:15	H3	Precision Mass Measurements on Light Nuclei: The Deuteron's Atomic Mass — ●SASCHA RAU
MS 2.1	Mon	14:00–14:30	H3	Experiments with multiple-reflection time-of-flight mass spectrometers (MR-TOF-MS) at TRIUMF and GSI/FAIR — ●CHRISTINE HORNING, THE FRS ION CATCHER COLLABORATION, THE TITAN COLLABORATION
MS 4.1	Tue	10:45–11:15	H2	Reaction studies with internally cold molecular ions in a storage ring — ●OLDŘICH NOVOTNÝ
MS 6.1	Tue	14:00–14:30	H2	The Multi Ion Reflection Apparatus for Collinear Laser Spectroscopy and its potential for fast and highly selective mass separation — ●STEPHAN MALBRUNOT
MS 7.1	Thu	10:45–11:15	H3	The new compact, multi isotope AMS system (MILEA) at ETH Zurich - performance and applications — ●MARCUS CHRISTL, SASCHA MAXEINER, ARNOLD MÜLLER, PHILIP GAUTSCHI, CHRISTOF VOCKENHUBER, HANS-ARNO SYNAL
MS 9.1	Fri	10:45–11:15	H2	Spatially resolved ultra-trace analysis of actinides on hot particles by resonant laser-SNMS — ●HAUKE BOSCO, MARTIN WEISS, MANUEL RAIWA, NINA KNEIP, KLAUS WENDT, CLEMENS WALTHER
MS 9.2	Fri	11:15–11:45	H2	Multi-reflection time-of-flight mass spectrometry for cluster research — ●PAUL FISCHER, LUTZ SCHWEIKHARD

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 The state of the art in actinide research (SYAR)

See SYAR for the full program of the symposium.

SYAR 1.1 Wed 10:45–11:15 Audimax **Application of Inorganic Mass Spectrometry in Nuclear Forensics** — ●KLAUS MAYER, MARIA WALLENUS, ZSOLT VARGA, MAGNUS HEDBERG, MICHAEL KRACHLER

SYAR 1.2 Wed 11:15–11:45 Audimax **Actinide elements and fundamental nuclear structure studies** — ●IAIN MOORE

SYAR 1.3 Wed 11:45–12:15 Audimax **Pushing the Limits: Detection of Long-Lived Actinides at VERA** — ●KARIN HAIN, MICHAEL KERN, JIXIN QIAO, FRANCESCA QUINTO, AYA SAKAGUCHI, PETER STEIER, GABRIELE WALLNER, ANDREAS WIEDERIN, AKIHIKO YOKOYAMA, ROBIN GOLSER

SYAR 1.4 Wed 12:15–12:45 Audimax **Use of the actinides in medical research** — ●THOMAS ELIAS COCOLIOS

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

Sessions

MS 1.1–1.7	Mon	10:45–12:45	H3	Precision Mass Measurements I
MS 2.1–2.5	Mon	14:00–15:30	H3	Precision Mass Measurements II
MS 3.1–3.2	Mon	16:30–18:30	P	Poster
MS 4.1–4.5	Tue	10:45–12:15	H2	Storage Rings
MS 5	Tue	12:15–13:15	MVMS	Annual General Meeting of the Mass Spectrometry Division
MS 6.1–6.5	Tue	14:00–15:30	H2	New Developments I
MS 7.1–7.6	Thu	10:45–12:30	H3	Accelerator Mass Spectrometry I
MS 8.1–8.5	Thu	14:00–15:15	H3	Accelerator Mass Spectrometry II
MS 9.1–9.3	Fri	10:45–12:00	H2	New Developments II

Annual General Meeting of the Mass Spectrometry Division

Tuesday 12:15–13:15 MVMS

- Bericht
- Wahl
- Verschiedenes