

Mass Spectrometry Division Fachverband Massenspektrometrie (MS)

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Overview of Invited Talks and Sessions

(Lecture halls MS-H9; Poster P)

Invited Talks

MS 1.1	Mon	14:00–14:30	MS-H9	Direct high-precision measurement of the electron capture Q-value in ^{163}Ho for the determination of the effective electron neutrino mass — ●CHRISTOPH SCHWEIGER, MARTIN BRASS, VINCENT DEBIERRE, MENNO DOOR, HOLGER DORRER, CHRISTOPH E. DÜLLMANN, SERGEY ELISEEV, CHRISTIAN ENSS, PAVEL FILIANIN, LOREDANA GASTALDO, ZOLTAN HARMAN, MAURITS W. HAVERKORT, JOST HERKENHOFF, PAUL INDELICATO, CHRISTOPH H. KEITEL, KATHRIN KROMER, DANIEL LANGE, YURI N. NOVIKOV, DENNIS RENISCH, ALEXANDER RISCHKA, RIMA X. SCHÜSSLER, KLAUS BLAUM
MS 2.1	Mon	16:30–17:00	MS-H9	Ion Laser InterAction Mass Spectrometry with fluoride molecular anions — ●MARTIN MARTSCHINI, KARIN HAIN, MAKI HONDA, JOHANNES LACHNER, OSCAR MARCHHART, SILKE MERCHEL, CARLOS VIVO-VILCHES, ROBIN GOLSER
MS 3.1	Tue	10:30–11:00	MS-H9	Two-photon decay of nuclear isomers — ●WOLFRAM KORTEN
MS 4.1	Wed	10:30–11:00	MS-H9	Isobar separation with cooled ions and laser light for compact AMS facilities — ●JOHANNES LACHNER, STEFAN FINDEISEN, ROBIN GOLSER, MICHAEL KERN, OSCAR MARCHHART, MARTIN MARTSCHINI, ANTON WALLNER, ALEXANDER WIESER
MS 6.1	Wed	14:00–14:30	MS-H9	PUMA: nuclear structure with low-energy antiprotons — ●ALEXANDRE OBERTELLI
MS 8.1	Thu	10:30–11:00	MS-H9	Present and future prospects for MRTOF-based mass spectroscopy at KEK and RIKEN — ●PETER SCHURY, MICHIHARU WADA, TOSHITAKA NIWASE, MARCO ROSENBUSCH, YOSHIKAZU HIRAYAMA, HIRONOBU ISHIYAMA, DAIYA KAJI, SOTA KIMURA, HIROARI MIYATAKE, KOUJI MORIMOTO, MOMO MUKAI, HIROARI MIYATAKE, AIKO TAKAMINE, YUTAKA WATANABE, HERMANN WOLLNIK
MS 9.1	Thu	14:00–14:30	MS-H9	Isochronous mass spectrometry and beam purification in an electrostatic storage ring — ●VIVIANE C. SCHMIDT

Invited talks of the joint symposium Laboratory Astrophysics (SYLA)

See SYLA for the full program of the symposium.

SYLA 1.1	Mon	14:00–14:30	Audimax	Probing chemistry inside giant planets with laboratory experiments — ●DOMINIK KRAUS
SYLA 1.2	Mon	14:30–15:00	Audimax	Inner-shell photoabsorption of atomic and molecular ions — ●STEFAN SCHIPPERS
SYLA 1.3	Mon	15:00–15:30	Audimax	Molecular Astrophysics at the Cryogenic Storage Ring — ●HOLGER KRECKEL
SYLA 1.4	Mon	15:30–16:00	Audimax	Observing small molecules in stellar giants - High spectral resolution infrared studies in the laboratory, on a mountain, and high up in the air — ●GUIDO W. FUCHS

SYLA 2.1	Mon	16:30–17:00	Audimax	State-to-State Rate Coefficients for NH₃-NH₃ Collisions obtained from Pump-Probe Chirped-Pulse Experiments — ●CHRISTIAN P. ENDRES, PAOLA CASELLI, STEPHAN SCHLEMMER
SYLA 2.4	Mon	17:30–18:00	Audimax	A multifaceted approach to investigate the reactivity of PAHs under electrical discharge conditions — ●DONATELLA LORU, AMANDA L. STEBER, JOHANNES M. M. THUNNISSEN, DANIEL B. RAP, ALEXANDER K. LEMMENS, ANOUK M. RIJS, MELANIE SCHNELL
SYLA 2.5	Mon	18:00–18:30	Audimax	Exploring the Femtosecond Dynamics of Polycyclic Aromatic Hydrocarbons Using XUV FEL Pulses — ●JASON LEE, DENIS TIKHONOV, BASTIAN MANSCHWETUS, MELANIE SCHNELL

Invited talks of the joint PhD symposium Solid-state Quantum Emitters Coupled to Optical Microcavities (SYPD)

See SYPD for the full program of the symposium.

SYPD 1.1	Mon	16:30–17:00	AKjDPG-H17	Fiber-based microcavities for efficient spin-photon interfaces — ●DAVID HUNGER
SYPD 1.2	Mon	17:00–17:30	AKjDPG-H17	A fast and bright source of coherent single-photons using a quantum dot in an open microcavity — ●RICHARD J. WARBURTON
SYPD 1.3	Mon	17:30–18:00	AKjDPG-H17	New host materials for individually addressed rare-earth ions — ●SEBASTIAN HORVATH, SALIM OURARI, LUKASZ DUSANOWSKI, CHRISTOPHER PHENICIE, ISAIAH GRAY, PAUL STEVENSON, NATHALIE DE LEON, JEFF THOMPSON
SYPD 1.4	Mon	18:00–18:30	AKjDPG-H17	A multi-node quantum network of remote solid-state qubits — ●RONALD HANSON

Invited talks of the joint symposium SAMOP Dissertation Prize 2022 (SYAD)

See SYAD for the full program of the symposium.

SYAD 1.1	Tue	14:00–14:30	Audimax	New insights into the Fermi-Hubbard model in and out-of equilibrium — ●ANNABELLE BOHRDT
SYAD 1.2	Tue	14:30–15:00	Audimax	Searches for New Physics with Yb⁺ Optical Clocks — ●RICHARD LANGE
SYAD 1.3	Tue	15:00–15:30	Audimax	Machine Learning Methodologies for Quantum Information — ●HENDRIK POULSEN NAUTRUP
SYAD 1.4	Tue	15:30–16:00	Audimax	Precision Mass Measurement of the Deuteron's Atomic Mass — ●SASCHA RAU

Sessions

MS 1.1–1.7	Mon	14:00–16:00	MS-H9	Penning-Trap Mass Spectrometry
MS 2.1–2.6	Mon	16:30–18:15	MS-H9	Mass Spectrometry Methods
MS 3.1–3.5	Tue	10:30–12:05	MS-H9	Studies of Nuclear Metastable States
MS 4.1–4.7	Wed	10:30–12:30	MS-H9	Accelerator Mass Spectrometry
MS 5	Wed	13:00–14:00	MS-MV	Annual general meeting
MS 6.1–6.6	Wed	14:00–15:45	MS-H9	New Developments
MS 7.1–7.4	Wed	16:30–18:15	P	MS Poster Session
MS 8.1–8.4	Thu	10:30–11:45	MS-H9	Multi-Reflection Time-of-Flight Spectrometers
MS 9.1–9.4	Thu	14:00–15:15	MS-H9	Ion Storage Rings

Annual General Meeting of the Mass Spectrometry Division

Wednesday 18:00–19:00 MS-MV

- Bericht
- Verschiedenes