

## Mass Spectrometry Division Fachverband Massenspektrometrie (MS)

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### Overview of Invited Talks and Sessions

(Lecture halls f128; Poster Empore Lichthof)

#### Invited Talks

|         |     |             |      |  |
|---------|-----|-------------|------|--|
| MS 1.1  | Mon | 11:00–11:30 | f128 | <b>Precision Mass Measurements on light Nuclei: The Deuteron’s Atomic Mass</b> — ●SASCHA RAU   |
| MS 2.1  | Mon | 14:00–14:30 | f128 | <b>Reaction studies with internally cold molecular ions in a storage ring</b> — ●OLDRICH NOVOTNY   |
| MS 4.1  | Tue | 14:00–14:30 | f128 | <b>Multi-reflection time-of-flight mass spectrometry for cluster research</b> — ●PAUL FISCHER, GERRIT MARX, LUTZ SCHWEIKHARD   |
| MS 5.1  | Tue | 15:15–15:45 | f128 | <b>Experiments with multiple-reflection time-of-flight mass spectrometers (MR-TOF-MS) at TRIUMF and GSI/FAIR</b> — ●CHRISTINE HORNING, THE FRS ION CATCHER COLLABORATION, THE TITAN COLLABORATION  |
| MS 7.1  | Wed | 14:00–14:30 | f128 | <b>Spatially resolved ultra-trace analysis of actinides on hot particles by resonant laser-SNMS</b> — ●HAUKE BOSCO, MARTIN WEISS, MANUEL RAIWA, NINA KNEIP, KLAUS WENDT, CLEMENS WALTHER   |
| MS 8.1  | Wed | 14:30–15:00 | f128 | <b>The new compact, multi isotope AMS system (MILEA) at ETH Zurich - performance and applications</b> — ●MARCUS CHRISTL, SASCHA MAXEINER, ARNOLD MILENKO MÜLLER, PHILIP GAUTSCHI, CHRISTOF VOCKENHUBER, MAXI CASTRILLEJO, NURIA CASACUBERTA, HANS-ARNO SYNAL |
| MS 13.1 | Thu | 15:00–15:30 | f128 | <b>The Multi Ion Reflection Apparatus for Collinear Laser Spectroscopy and its potential for fast and highly selective mass separation</b> — ●STEPHAN MALBRUNOT-ETTENAUER FOR THE MIRACLS COLLABORATION  |

#### Invited talks of the joint symposium SYAI

See SYAI for the full program of the symposium.

|          |     |             |      |  |
|----------|-----|-------------|------|--|
| SYAI 1.1 | Mon | 14:00–14:30 | e415 | <b>Atom interferometry and its applications for gravity sensing</b> — ●FRANCK PEREIRA DOS SANTOS, LUC ABSIL, ROMAIN CALDANI, XIAOBING DENG, ROMAIN KARCHER, SÉBASTIEN MERLET, RAPHAËL PICCON, SUMIT SARKAR |
| SYAI 1.2 | Mon | 14:30–15:00 | e415 | <b>Atom interferometry for advanced geodesy and gravitational wave observation</b> — ●PHILIPPE BOUYER  |
| SYAI 1.3 | Mon | 15:00–15:30 | e415 | <b>Fundamental physics with atom interferometry</b> — ●PAUL HAMILTON   |
| SYAI 1.4 | Mon | 15:30–16:00 | e415 | <b>Atoms and molecules interacting with light</b> — ●LUCIA HACKERMÜLLER  |

#### Invited talks of the joint symposium SYAD

See SYAD for the full program of the symposium.

|          |     |             |      |  |
|----------|-----|-------------|------|--|
| SYAD 1.1 | Tue | 11:00–11:30 | e415 | <b>Electron Pulse Control with Terahertz Fields</b> — ●DOMINIK EHBERGER  |
| SYAD 1.2 | Tue | 11:30–12:00 | e415 | <b>Laser-Based High-Voltage Metrology with ppm Accuracy</b> — ●KRISTIAN KÖNIG, CHRISTOPHER GEPPERT, PHILLIP IMGRAM, JÖRG KRÄMER, BERNHARD MAASS, JOHANN MEISNER, ERNST OTTEN, STEPHAN PASSON, TIM RATAJCZYK, JOHANNES ULLMANN, WILFRIED NÖRTERSCHÄUSER |

|          |     |             |      |  |
|----------|-----|-------------|------|--|
| SYAD 1.3 | Tue | 12:00–12:30 | e415 | <b>Structured singular light fields</b> — ●EILEEN OTTE                                       |
| SYAD 1.4 | Tue | 12:30–13:00 | e415 | <b>Coherent Coupling of a Single Molecule to a Fabry-Perot Microcavity</b><br>— ●DAQING WANG |

### Invited talks of the joint symposium SYAR

See SYAR for the full program of the symposium.

|          |     |             |      |  |
|----------|-----|-------------|------|--|
| SYAR 1.1 | Wed | 11:00–11:30 | e415 | <b>Use of actinides in medical research</b> — ●THOMAS ELIAS COCOLIOS   |
| SYAR 1.2 | Wed | 11:30–12:00 | e415 | <b>Pushing the Limits: Detection of Long-Lived Actinides at VERA</b><br>— ●KARIN HAIN, MICHAEL KERN, FRANCESCA QUINTO, AYA SAKAGUCHI,<br>PETER STEIER, GABRIELE WALLNER, ANDREAS WIEDERIN, MASATOSHI YA-<br>MADA, ROBIN GOLSER |
| SYAR 1.3 | Wed | 12:00–12:30 | e415 | <b>Application of Inorganic Mass Spectrometry in Nuclear Forensics</b> —<br>●KLAUS MAYER, MARIA WALLENIUS, ZSOLT VARGA, MAGNUS HEDBERG,<br>MICHAEL KRACHLER  |
| SYAR 1.4 | Wed | 12:30–13:00 | e415 | <b>Actinide elements and fundamental nuclear structure studies</b> — ●IAIN<br>MOORE  |

### Sessions

|              |     |             |                 |   |
|--------------|-----|-------------|-----------------|---|
| MS 1.1–1.7   | Mon | 11:00–13:00 | f128            | <b>Precision Mass Spectrometry I</b>  |
| MS 2.1–2.4   | Mon | 14:00–15:15 | f128            | <b>Storage Rings</b>  |
| MS 3.1–3.3   | Mon | 15:15–16:00 | f128            | <b>New Developments and Techniques</b>  |
| MS 4.1–4.4   | Tue | 14:00–15:15 | f128            | <b>Clusters and Molecules</b>   |
| MS 5.1–5.2   | Tue | 15:15–16:00 | f128            | <b>Precision Mass Spectrometry II</b>   |
| MS 6.1–6.1   | Wed | 13:10–13:55 | f303            | <b>Lunch talk: German Research Foundation (DFG) (joint<br/>session A/K/P/MO/MS/Q)</b> |
| MS 7.1–7.1   | Wed | 14:00–14:30 | f128            | <b>Laser-SNMS</b>   |
| MS 8.1–8.5   | Wed | 14:30–16:00 | f128            | <b>Accelerator Mass Spectrometry and Applications I</b>                               |
| MS 9.1–9.7   | Wed | 16:30–18:30 | Empore Lichthof | <b>Mass Spectrometry Posters</b>  |
| MS 10.1–10.8 | Thu | 11:00–13:00 | f128            | <b>Accelerator Mass Spectrometry and Applications II</b>                              |
| MS 11        | Thu | 13:00–13:30 | f128            | <b>Annual General Meeting of the Mass Spectrometry Di-<br/>vision</b>                 |
| MS 12.1–12.4 | Thu | 14:00–15:00 | f128            | <b>Accelerator Mass Spectrometry and Applications III</b>                             |
| MS 13.1–13.4 | Thu | 15:00–16:15 | f128            | <b>New Developments and Techniques</b>  |

### Annual General Meeting of the Mass Spectrometry Division

Thursday 13:00–13:30 f128

- Bericht
- Verschiedenes