

The 10th International workshop on ELECTROSTATIC STORAGE DEVICES ESD 10



Auditorium: building 1523, 3rd floor
Lunch/poster session: building 1520, 7th floor

Monday 16th June

09.00 - 10.30 Session 1: Opening – Chair: Henrik B. Pedersen

09.00 - 09.15 Welcome

09.15 - 10.00 **Opening lecture:** *Three decades of electrostatic ion trapping: Already?*
Daniel Zajfman, Weizmann Institute of Science, Rehovot, IL

10.00 - 10.30 *Probing molecular mutual neutralization reactions of atmospheric importance using the ion storage facility DESIREE*
Richard Thomas, Stockholm University, SE

10.30 - 11.00 Coffee break

11.00 - 12.40 Session 2: Internal dynamics in molecules – Chair: Andreas Wolf

11.00 - 11.30 *State manipulations of negative ions during storage*
Dag Hanstorp, University of Gothenburg, SE

11.30 - 12.00 *Peptide Bond Formation in Amino Acid Clusters*
Yoni Toker, Bar Ilan University, IL

12.00 - 12.20 *The not even just odd even-odd effect in the cooling of gold clusters*
Klavs Hansen, Tianjin University, CN

12.20 - 12.40 *Internal decay processes in homonuclear dimer anions using trapped ions in an EIBT and electron spectrometer*
Oded Heber, Weizmann Institute of Science, Rehovot, IL

12.40 - 13.30 Lunch break

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13.30 - 15.10	Session 3: Related fields & perspectives – Chair: Yoni Toker
13.30 - 14.00	<i>Charge-Detection Mass Spectrometry and Hypervelocity Ice Grain Impacts</i> Robert Continetti , University of California San Diego, USA
14.00 - 14.30	<i>Quantum or Classical? Rethinking Laser-Matter Interactions in Intense Fields</i> Lars Boyer Madsen , Aarhus University, DK
14.30 - 14.50	<i>Minute-scale Storage of Multiply Charged Helium Nanodroplets inside an Electrostatic Ion Beam Trap</i> Matthias Veternik , University of Innsbruck, AT
14.50 - 15.10	<i>Development of an X-ray photoelectron spectrometer to investigate chirality in biomolecular ions</i> Bart Oostenrijk , Deutsches Elektronen-Synchrotron DESY, DE
15.10 – 17.00	Poster session I

Tuesday 17th June

09.00 - 10.25	Session 4: Photo-induced processes & spectroscopy – Chair: Steen Brøndsted Nielsen
09.00 - 09.45	Topical lecture: <i>Spectroscopy and dynamics of cold molecular ions</i> Lars H. Andersen , Aarhus University, DK
09.45 - 10.05	<i>IR and UV spectroscopy of gas-phase monohydrated protonated guanine</i> Satchin Soorkia , Université Paris-Saclay, FR
10.05 - 10.25	<i>Freezing Out Structural Effects: Gas-Phase Fluorescence from Rhodamine Homodimers and Trimers at Cryogenic Temperatures</i> Iden Djavani-Tabrizi , Aarhus University, DK
10.25 - 11.00	Coffee break
11.00 - 12.30	Session 5: New techniques & developments – Chair: Christine Joblin
11.00 - 11.30	<i>Measurement of dissociation and radiative cooling rate of PAH cations using room temperature and cryogenic electrostatic storage rings</i> Jerome Bernard , Claude Bernard University Lyon, FR
11.30 - 11.50	MOCCA @ CSR: Towards mass-sensitive detection in an electrostatic storage ring Oldrich Novotny , Max-Planck Institute for Nuclear Physics, Heidelberg, DE
11.50 - 12.10	<i>Phase Space Manipulation and Evaporative Cooling of Ions in an Electrostatic Ion Beam Trap</i> Deepak Sharma , Max Planck Institute for Nuclear Physics, Heidelberg, DE
12.10 - 12.30	<i>Low Energy Electron Cooling at the Cryogenic Storage Ring</i> Jonas Bechtel , Max Planck Institute for Nuclear Physics, Heidelberg, DE
12.30 - 13.30	Lunch break
13.30 - 15.05	Session 6: Intermolecular processes – Chair: Richard Thomas
13.30 - 14.15	Topical lecture: <i>A glimpse into the world of ICD and ETMD</i> Lorenz S. Cederbaum , Heidelberg University, Heidelberg, DE
14.15 - 14.45	<i>Interatomic/molecular Coulombic decay (ICD): Toward exploring vibrational ICD in hydrated anion beams</i> Ltaief Ben Ltaief , Aarhus University, DK
14.45 - 15.05	<i>Radiative cooling of the deprotonated cyan fluorescent protein chromophore anion</i> Mark H. Stockett , Stockholm University, SE
15.05 - 17.00	Poster session II

Wednesday 18th June

09.00 – 10.20	Session 7: Collisions – Chair: Henning T. Schmidt
09.00 - 09.30	<i>Low energy ion-neutral collisions</i> Holger Kreckel , Max-Planck-Institute for Nuclear Physics, Heidelberg, DE
09.30 - 10.00	<i>Complex molecules in DESIREE</i> Michael Gatchell , Stockholm University, SE
10.00 – 10.20	<i>Electron Transfer to Ar⁺ studied with a Reaction Microscope in a Cryogenic Storage Ring</i> Felix Herrmann , Max Planck Institute for Nuclear Physics, Heidelberg, DE
10.20 - 11.00	Coffee break
11.00 - 12.40	Session 8: Mass spectrometry & nuclear physics – Chair: Oded Herber
11.00 - 11.30	<i>Facets of Electrostatic Ion Beam Traps (My life with MR-ToF devices)</i> Lutz Schweikhard , University of Greifswald, DE
11.30 – 12.00	<i>Mass spectrometry and separation at ISOLDE/CERN</i> Lukas Nies , European Organization for Nuclear Research, Geneva, CH
12.00–12.20	<i>Planar electrostatic ion traps for mass spectrometry</i> Dmitry Grinfeld , Thermo Fisher Scientific, DE
12.20 - 12.40	<i>High-sensitivity spectroscopy of radioactive ions within a ConeTrap</i> Daniel Bettaney , University of Manchester, UK
12.40 - 13.30	Lunch break
14.00 – 15.30	Lab tours – coffee by auditorium from 15.00
15.30 – 18.00	Excursion: Walk to and own time at ARoS art museum
18.00-21.00	Conference dinner (ARoS)

Thursday 19th June

09.00 - 10.30	Session 9: Photo-induced processes & spectroscopy – Chair: Lars H. Andersen
09.00 - 09.30	<i>Cold ion spectroscopy with LUNA2</i> Thomas Toft Lindkvist , Aarhus University, DK
09.30 - 09.50	<i>Towards multi-color laser action spectroscopy of highly excited H^+_3 in the CSR</i> Lukas Berger , Max Planck Institute for Nuclear Physics, Heidelberg, DE
09.50 - 10.10	<i>Accurate lifetime measurement of the $5d^2D_{3/2}$ metastable state of singly charged barium</i> Paul Martini , Stockholm University, SE
10.10 - 10.30	<i>Velocity Map Imaging with No Spherical Aberrations</i> Yehuda Ben Shabo , Bar Ilan University, IL
10.30 - 11.00	Coffee break
11.00 - 12.30	Session 10: Collisions – Chair: Lutz Schweikhard
11.00 - 11.30	<i>Electron-ion recombination in CSR</i> Leonard Isberner , Max-Planck-Institute for Nuclear Physics, Heidelberg, DE
11.30 - 11.50	<i>State-Selective Mutual Neutralization between Ba^+ and Au^- Ions</i> Rachel Poulou , Stockholm University, SE
11.50 - 12.10	<i>Momentum Imaging of Electrons and Recoil Ions from Anion-Neutral Interactions with a Reaction Microscope in a Cryogenic Ion Storage Ring</i> Michael Schulz , Max Planck Institute for Nuclear Physics, Heidelberg, DE
12.10 - 12.30	<i>A new generation of compact transportable cryogenic electrostatic storage device: Polar Mini-Ring</i> Suvasthika Indrajith , Université Lyon, FR
12.30 - 13.30	Lunch break
13.30 - 15.15	Session 11: Related fields & perspectives – Chair: Klavs Hansen
13.30 - 14.15	Topical lecture: <i>Ions in space and the PAH model</i> Christine Joblin , Institut de Recherche en Astrophysique et Planétologie, Toulouse, FR
14.15 - 14.35	<i>Probing the balance between dissociation and radiative cooling in interstellar Polycyclic Aromatic Hydrocarbon cations</i> Arun Subramani , Stockholm University, SE
14.35 - 14.55	<i>A new setup to study the reactivity and spectroscopy of isomer selected molecular clusters</i> Anne P. Rasmussen , CNRS, FR & Aarhus University, DK
14.55 - 15.15	<i>Action spectroscopy and photophysics of $C_{11}H_9^+$ species</i> Ana Lozano , Université de Toulouse, FR
15.15 - 15.45	Coffee and departure