

Conference Program

Sunday (Aug 31)



18:00 Reception and Registration

Monday (Sep 1)

9:00 Opening

9:20 ***The new International System of Units based on fundamental constants***

Joachim Ullrich – RL

10:05 ***A penning trap experiment with ions in extreme laser fields***

Manuel Vogel – ST

10:25 Coffee Break

11:00 ***Fragmentation of small molecules (including biological ones) interacting with ions, electrons and synchrotron radiation***

Eduardo Ch. Montenegro – PR

11:30 ***Proton track-structure in biological matter: Water versus DNA***

Christophe Champion – ST

11:50 ***Introducing m3c: software for statistical simulation of molecular fragmentation processes***

Néstor Aguirre – ST

12:10 ***Fragmentation mechanisms for methane induced by electron impact***

Baoren Wei – ST

12:30 Lunch

14:30 ***Interaction of slow highly charged ions with ultrathin membranes – Potential sputtering, energy loss and charge exchange***

Richard Wilhelm – PR

15:00 ***HCl/surface interaction and magnetization***

Christophe Prigent – ST

15:20-17:20 **Poster Session A**

Tuesday (Sep 2)

9:00 **Quantum interference of fast atoms scattered off crystal surfaces**

María S. Gravielle – RL

9:45 **Structural evolution of metallic nanowires induced by GeV highly charged ion irradiation**

Jinglay Duan – ST

10:05 **Mechanism of ion desorption from rare gas solids by low energy multiply-charged ion impact**

Takato Hirayama – ST

10:25 Coffee Break

11:00 **Compton polarimetry of hard X-rays emitted in collisions of heavy ions with atoms and electrons**

Günter Weber – PR

11:30 **X-ray line width measurements of highly charged argon ions in an electron-cyclotron resonance ion source**

José P. Santos – ST

11:50 **Recoil effect for Boron-like ions in magnetic field**

Arseniy Shchepetnov – ST

12:10 **Laser spectroscopy of the ground-state hyperfine structure in H-like and Li-like Bismuth**

Jonas Vollbrecht – ST

12:30 Lunch

14:30 **PAH radiative cooling and fragmentation kinematics studied within an electrostatic ring**

Richard Brédy – PR

15:00 **Highly charged ions in Coulomb crystals**

José Crespo Urrutia – PR

15:30 **Ion stopping power measurements in warm dense plasmas**

Sophia Chen – PR

16:00 ***Electron emission in collisions of dressed projectiles with atoms and molecules***

Daniel Fregenal – LR

19:00 – 20:30 ***Wonders of the Southern Skies***

Guillermo Abramson - **Public Lecture**

Wednesday (Sep 3)

9:00 ***Spectroscopic diagnostics of fusion plasmas***

Martin O'Mullane – RL

9:45 ***Preferential near site electron capture in low energy ion-dimer collisions***

Xavier Flécharde – ST

10:05 ***Electron impact excitation of Si II and Fe XIV***

Kanti Aggarwal – ST

10:25 Coffee Break

11:00 ***Breakthrough in near-k-edge photoionization of singly and multiply charged ions***

Alfred Müller – PR

11:30 ***X-ray frequency comb generation via optical control of highly charged ions***

Zoltan Harman – ST

11:50 ***Plasmon excitation in valence shell photoelectron spectroscopy for PAHS***

Preeti Mishra – ST

12:10 ***Diagnostic of plasma parameters based on the X-ray line positions for various elements***

E. Szymańska– ST

12:30 Lunch

14:30 Free for tours

Thursday (Sep 4)

9:00 ***Interaction of charged particles with insulating capillary targets – The guiding effect***

Christoph Lemell – RL

9:45 ***Ion-induced reactivity in pyrene clusters***

Michael Gatchell – ST

10:05 ***Observation of 2s metastable state formation in resonant coherent excitation of H-like Ar¹⁷⁺***

Yuji Nakano – ST

10:25 Coffee Break

11:00 ***The role of multiple electron capture in the X-ray emission process following charge exchange collisions of HCl with neutral targets***

Sebastián Otranto – PR

11:30 ***Beyond first order electron loss to continuum ELC cusp: $d\sigma/dE_e$ for 50 AMeV U²⁸⁺ in the ESR storage ring***

Siegbert Hagmann – ST

11:50 ***Radiative double electron capture by bare ions***

Nuwan Kumara – ST

12:10 ***Charge exchange produced emission of Carbon in the extreme ultraviolet spectral region***

Jaan Lepson – ST

12:30 Lunch

14:30 ***Highly charged ions for improved mass measurements***

Stephan Ettenauer – PR

15:00 ***Highly-charged ions for atomic clocks, search for the variation of the fine-structure constant, and quantum information***

Marianna Safronova – PR

15:30 - 17:30 ***Poster Session B***

19:00 - 22:00 ***Conference Dinner***

Friday (Sep 5)

9:00 ***Multiphoton ionization of atoms, molecules and clusters by intense X-ray pulses from FELs***

Kiyoshi Ueda – RL

09:45 ***FLASH upgrade: using ultra-short FEL radiation to study the interaction of hci with soft X-ray photons***

Guenther Brenner – ST

10:05 Coffee Break

10:40 ***Characterization of a double-sided Si(Li) strip Compton polarimeter***

Karl-Heinz Blumenhagen – ST

11:00 ***Recombination results from the Shanghai EBITs***

Lu Di – PR

11:30 ***A miniature EBIT with ion extraction for isolating highly charged ions***

Shannon Hoogerheide – ST

11:50 ***RF-bunching of the relativistic C³⁺ ion beam for laser cooling experiment at the CSRE***

Hanbing Wang – ST

12:10 Closing

12:30 Lunch

14:30 Visit to INVAP

RL: Review Lectures

PR: Progress Reports

ST: Special Topic

LR: Local Report