

Program

Thursday, July 28

9:00 – Opening

Section I Chair E. Salzborn

9:10

Lew Cocke, Kansas State University, USA

Connecting Laser and Heavy Ion Dynamics in the Interactions with Atoms and Molecules

9:40

Thomas Stöhlker, GSI - Darmstadt, Germany

Linear Polarization Properties of Radiative Electron Capture Revealed for Relativistic Projectiles

10:10

Robert DuBois, University of Missouri-Rolla, USA

Differential Ionization Studies for Antiparticle Impact

10:40

Coffee-Break

Section II Chair A. Dubois

11:00

Marcelo Sant'Anna, UFRJ, Brazil

Collisional Destruction of Negative Ions at Intermediate Projectile Velocities: Universality and Applications

11:20

Tom Kirchner, Technische Universität Clausthal, Germany

Multi-Electron Removal in Ion-Atom Collisions

11:40

Mariel Galassi, Univ. Rosario, Argentina

Multiple Ionization of Atoms and Simple Molecules by Fast Ion Beams

12:00

Lunch

Section III Chair T. Azuma

14:00

Thomas Schlathöller, KVI Atomic Physics, Netherlands

Fragmentation of Biological Molecules

14:20

Amine Cassini, CIRIL, France

What do we Learn from Ion-Induced Molecular Fragmentation?

14:40

Sergio Diaz-Tendero, Universidad Autónoma Madrid, Spain

Fragmentation of Small Carbon Clusters



15:00

Preben Hvelplund, University of Aarhus, Denmark

Collisions between biomolecular ions and atoms

15:20

Dominique Vernhet, Univ. Pierre et Marie Curie, France

X-Ray Emission: a Tool and a Probe for Laser - Cluster Interaction

15:40

Henrik Cederquist, Stockholm University, Sweden

Ionization and Fragmentation of C60 and C70 with Slow Highly Charged Atomic Ions

16:00

Section IV – Posters and Discussion

18:00

End

Friday, July 29

9:00 – News and Announcements

Section V Chair K. Komaki

9:10

Bill Graham, Queen's Univ. Belfast, UK

Ion Physics in Plasma Processing

9:40

Jean-Pierre Gauyacq Univ. Paris, France

Charge Transfer in Ion-Metal Surface Collisions: Can an Effect of the Electronic Surface Band Structure be Observed?'

10:10

Yasunori Yamazaki, Univ. Tokio, Japan

Charged Ion Interaction with Metal Surface

10:40

Coffe-Break

Section VI Chair A. Cherman

11:00

Uwe Thumm, Kansas State University, USA

The role of image and surface states during the neutralization of hydrogen anions on metal surfaces

11:20

Shane Scully, Queen's Univ. Belfast, UK

Ion-Molecule Interaction of Astrophysics Interest

11:40

James Perez, Luther College, USA

Cometary X-Rays Calculations

12:00



Lunch

Section VII Chair M. Pajek

14:00

Lokesh C Tribedi, Tata Institute of Fundamental Research,
India

*Atomic collisions in molecules and clusters: collective
excitations*

14:20

C. Aris Chatzidimitriou-Dreismann, Tech Univ. Berlin,
Germany

*Evidence of Nuclear Quantum Entanglement in Liquid
H₂O-D₂O*

14:40

Vitor de Jesus, CEFET-Quimica, Brasil

*Atomic structure dependence of nonsequential double ionization of He, Ne and Ar in strong
Laser fields*

15:00

Andre Staudte, Institut für Kernphysik, Germany

H₂ Fragmentation in a Super-Strong Short Laser Pulses

15:20

Coffe-Break

Section VIII Chair J. Macek

15:50

Daniel Fisher, Max-Planck-Institut für Kernphysik, Germany

Kinematical Complete Studies of Single and Multiple Ionization of He by Ion Impact

16:10

Juan Fiol, Centro Atomic Bariloche, Argentina

Dynamics of Two and Three-Bodies in Atomic Collisions

16:30

Theo J.M. Zouros, Univ. Crete, Greece

Transfer-Loss in F₆⁺ and O₅⁺ Collisions with H₂/He

16:50

Teck Lee, Oak Ridge Natl. Lab., USA

*Applications of Adiabatic and Diabatic Hyperspherical Close-Coupling Approach to Slow
Ion-Atom Collisions*

17:10

L. Nagy, Babes-Bolyai University, Romania

Interference Effects in the Ionization of Diatomic Molecules

17:30

Conference End

20:30

Conference Dinner

