

Tuesday, 18th February 2020

8:15-9:15 Registration

9:15-9:30 Opening: Alicja Domaracka and Henning Zettergren

Chair: H. Zettergren

9:30-10:00 **Steen B. Nielsen** : Action and luminescence spectroscopy of biomolecular systems in the gas phase

10:00-10:30 **Xavier Urbain**: Electron transfer and molecular ion formation in cation-anion reactions

10:30-11:00 Coffee break

Chair: A. Domaracka

11:00-11:30 **Christine Joblin**: Large carbonaceous molecules in space: identification and photophysical processes

11:30-12:00 **Alessandra Candian**: The importance of H (and D) scrambling in astronomically relevant hydrocarbon species

12:00-12:30 **Elisabetta Micelotta**: Supernovae as "dust factories": grain composition, identifications, mechanism of formation

12:30-13:00 **Amanda Steber**: Surveying fragmentation to aggregation of polycyclic aromatic hydrocarbons in multiple radiation environments

13:00-14:30 Lunch

14:30-16:30 *WG2 Kick off Meeting*

WG2 Leader Paola Bolognesi: Short introduction

Lorenzo Avaldi: Results and challenges of photofragmentation of molecules of biological interest (30')

Aleksandar Milosavljević: VUV/X-ray photoelectron spectroscopy of nanocrystals for solar cells absorbers isolated in vacuo (30')

Daniela Ascenzi: Ion-molecule reactions of astrochemical and atmospheric interest (30')

16:30-17:00 Coffee break

17:00-21:00 Poster session and cocktail

Wednesday, 19th February 2020

Chair: M. Łabuda

- 9:00-9:30 **Janina Kopyra:** Electron induced processes in biologically relevant molecules
- 9:30-10:00 **Charles Desfrancois:** IRMPD spectroscopy and quantum chemistry calculations on metal-ligand cluster ions
- 10:00-10:30 **Einar Uggerud:** Proton mobility in water clusters
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10:30-11:00 Coffee break

Chair: S. Tosić

- 11:00-11:30 **Jelena Tamuliene:** Ionizing radiation influence on the fragmentation of glutamine and valine
- 11:30-12:00 **Béla Sulik:** Ion-induced fragment emission from molecules: results, plans, new facilities
- 12:00-12:30 **Sylvain Maclot:** Dissociation dynamics of the diamondoid adamantane upon photoionization by XUV femtosecond pulses
- 12:30-13:00 **Alicia Palacios:** Attosecond electron-nuclear dynamics in photoionized molecules
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13:00-14:30 Lunch

14:30-16:30 *WG1 Kick off Meeting*

WG2 Leader **Thomas Schlathöler:** Short introduction

Holger Kreckel: Heavy ion storage rings: from magnetic to electrostatic and from room temperature to cryogenic (30')

Oded Heber: Electrostatic Ion Beam Trap: A versatile tool for studying gas phase molecular dynamics (30')

Eduardo Carrascosa: Unravelling isomer-specific shape and photochemistry of complex molecular ions (30')

16:30-17:00 Coffee break

17:00-18:30 Management Committee Meeting / Poster session

Thursday, 20th February 2020

Young Scientific Forum

Chair: S. Indrajith

9:00-9:20 **Jacopo Chiarinelli:** Inter- and intra-molecular interactions in uracil clusters studied by XPS

9:20-9:40 **Ewa Erdmann:** Fragmentation dynamics of ionized highly excited furan molecules: a combined theoretical and experimental approach

9:40-10:00 **Piero Ferrari:** High radiative cooling rates of small clusters

10:00-10:20 **Punnakayathil Najeeb:** The stability of the smallest carbon cluster dianion: C₇²⁻

10:20-11:00 Coffee break

11:00-13:00 *WG3 Kick off meeting*

Manuel Alcamí: Short introduction

Patrick Rousseau: Ion-collision induced reactivity in molecular clusters (30')

Aurora Ponzi: Gas-phase molecules through the lens of time-resolved photoelectron spectroscopy (30')

Jaroslav Kocisek: *Interaction of low energy electrons with biomolecules and clusters of biomolecules (30')*

13:00-14:30 Lunch

Chair: L. Avaldi

14:30-15:00 **Michael Gatchell:** Highly charged helium nanodroplets

15:00-15:30 **Nikola Skoro:** Creation and destruction of chemical species in liquids treated by atmospheric pressure plasmas - from gas phase chemistry to bulk liquid

15:30-16:00 **Matjaz Zitnik:** Resonant Inelastic X-ray scattering of chloromethanes

16:00-16:30 **Jelena Maljkovic:** Elastic electron scattering on molecules in the gas phase in the middle energy range

16:30-17:30 Poster session/Laboratory visit

19:00-21:30 Conference diner – Café Mancel, le Château Ducal, Caen

Friday, 21th February 2020

Chair: T. Kirova

- 9:00-9:30 **Elisabeth Gruber:** Excited-state lifetime measurements of stored chromophore ions
- 9:30-10:00 **Emilio Martínez-Núñez:** Automated discovery of chemical reaction mechanisms
- 10:00-10:30 **Ekaterina Iordanova:** Laser induced fabrication of 3D nanoparticle structures by femtosecond laser radiation
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10:30-11:00 Coffee break

Young Scientific Forum

Chair: M. Castrovilli

- 11:00-11:20 **Bogdan Calin:** Ultrafast laser fabrication of ion microtraps via multiphoton processing technologies
- 11:20-11:40 **Chiara Nicolafrancesco:** Energetic processing of biomolecular systems
- 11:40-12:00 **Paula Pla:** Stability and IR signatures of carbonaceous molecules
- 12:00-12:20 **Dariusz Piekarski:** MD study on reversible folding of tetrakisriazole catalysts and their binding with anionic substrates
- 12:20-13:00 Closing remarks
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13:00-14:30 Lunch
