

Core-2- Core 2023 Program

Monday January 23rd January

- Lab tour / Discussion on Collaboration

Tuesday 24th January

- 10:00-12:00 Lab tours
- 12:00-13:15 Free time (lunch)

Afternoon session

- 13:15-13:30 Opening ceremony
- 13:30-14:00 Kenta Mizuse (Kitasato University)

Rotational and vibrational wave packet imaging spectroscopy of molecular clusters **(O-1)**

- 14:00-14:30 Eric Gloaguen (Institut des Sciences Moléculaires d'Orsay)

The big plunge of ion pairs from gas phase to solution **(O-2)**

- 14:30-15:00 Jennifer Noble (Physique des Interactions Ioniques et Moléculaires Marseille)

Ice inventory in highly extincted star forming regions: First results of IceAge*, a JWST Early Release Science programme **(O-3)**

15:00-15:30 Coffee break

- 15:30-16:00 Charles Desfrancois (Laboratoire Physique des Lasers Villetaneuse)

IRMPD spectroscopy on mass-selected metal-ligand complex ions **(O-4)**

- 16:00-16:15 Etienne Rouquet (Institut des Sciences Moléculaires d'Orsay and Synchrotron Soleil)

Induced Photoelectron Circular Dichroism **(P-1)**

- 16:15-16:30 Parker Crandall (Technische Universität Berlin)

Electronic Photodissociation Spectroscopy of Diamondoid Cations in a Cryogenic Trap **(P-2)**

- 16:30-16:45 Vinitha Meloottayil Viswanathan (Physique des Interactions Ioniques et Moléculaires Marseille)

Electronic spectroscopy of indole derivatives in water clusters **(P-3)**

Wednesday 25th January

Morning session

- 10:00-10:30 Masaaki Fujii (Tokyo Institute of Technology)

Hydration-induced protomer switching in *p*-aminobenzoic acid studied by cold double ion trap infrared spectroscopy (O-5)

- 10:30-11:00 Michito Yoshizawa (Tokyo Institute of Technology)

Polyaromatic Capsules: from Molecular Design to Host Functions (O-6)

11:00-11:30 Coffee break

- 11:30-11:45 Kien Xuan Vo (Tokyo Institute of Technology)

Na⁺ Selective Binding by Beauvericin and Its Mechanism Studied by Mass-coupled Cold Ion Trap Infrared Spectroscopy (P-4)

- 11:45-12:00 Taarna Studemund (Technische Universität Berlin)

Photodissociation & Optical Absorption Properties of Small Silicon-Containing Clusters (P-5)

- 12:00-12:15 Yuya Tobata (Tokyo Institute of Technology)

Rotational spectroscopy of propylene dimers by time-resolved Coulomb explosion imaging (P-6)

Group Photo

12:30-14:00 lunch buffet

14:00-16:00 Poster session

Afternoon session

- 16:00-16:30 Shun-ichi Ishiuchi (Tokyo Institute of Technology)

Cold ion trap spectroscopy of Ag⁺ and Tl⁺ complexes of K⁺ channel's selectivity filter; Can they permeate through the K⁺ channel? (O-7)

- 16:30-17:00 Satchin Soorkia (Institut des Sciences Moléculaires d'Orsay)

Excited states dynamics of protonated DNA/RNA bases elucidated by cryogenic photodissociation spectroscopy and *ab initio* calculations (O-8)

Short Break

- 17:00-18:00 Informal Discussions

Conference Dinner

Thursday 26th January

Morning session

- 10:00-10:30 Yasuhiro Ohshima (Tokyo Institute of Technology)
Capturing and Manipulating Large-Amplitude Motion in Flexible Molecular Systems **(O-9)**
- 10:30-11:00 Otto Dopfer (Technische Universität Berlin)
Geometric & Electronic Structure of Silane-Based Cation Clusters: Charge-Inverted H-Bonds, 3c-2e Bonds & Silicon Hydride Wires **(O-10)**
- 11:00-11:30 Informal Discussions
- 11:30-11:45 Concluding Remarks
- 11:45 –13:30 Lunch Buffet

13:30 -17:00 Lab tours + free discussions

Friday 27th January

- Discussion on Collaboration.