

# Core-2- Core 2023 Program

## Monday January 23<sup>rd</sup> January

- Lab tour / Discussion on Collaboration

## Tuesday 24<sup>th</sup> January

- 10:00-12:00 Lab tours
- 12:00-13:30 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

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

The big plunge of ion pairs from gas phase to solution

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

The ice inventory in the highly extincted star forming region Chameleon I: Initial results of the JWST ERS program IceAge

15:00-15:30 Coffee break

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

IRMPD spectroscopy on (isolated) metal-ligand complexes.

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

Induced Photoelectron Circular Dichroism

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

Electronic Photodissociation Spectroscopy of Diamondoid Cations in a Cryogenic Trap

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

Electronic spectroscopy of indole derivatives in water clusters

## Wednesday 25<sup>th</sup> 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
- 10:30-11:00 Michito Yoshizawa (Tokyo Institute of Technology)  
Polyaromatic Capsules from Molecular Design to Host Functions

11:00-11:30 Coffee break

- 11:30-11:45 Kien Xuan Vo (Tokyo Institute of Technology)  
Na<sup>+</sup> Selective Binding by Beauvericin and Its Mechanism Studied by Mass-coupled Cold Ion Trap Infrared Spectroscopy
- 11:45-12:00 Taarna Studemund (Technische Universität Berlin)  
Photodissociation & Optical Absorption Properties of Small Silicon-Containing Clusters
- 11:45-12:00 Yuya Tobata (Tokyo Institute of Technology)  
Rotational spectroscopy of propylene dimers by time-resolved Coulomb explosion imaging

### **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<sup>+</sup> and Ta<sup>+</sup> complexes of K<sup>+</sup> channel's selectivity filter; can they permeate through the K<sup>+</sup> channel?
- 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

Short Break

- 17:00-18:00 Informal Discussions

## Conference Dinner

### Thursday 26<sup>th</sup> January

#### *Morning session*

- 10:00-10:30 Yasuhiro Ohshima (Tokyo Institute of Technology)

Capturing and manipulating large-amplitude vibration in flexible molecular systems

- 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

- 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 27<sup>th</sup> January

- Discussion on Collaboration.