

International Symposium Frontiers in Cluster Science: Structure and Dynamics

(TU Berlin, November 29, 2019, seminar room ER 325)

9:15 Coffee and get together

9:45 Opening Remarks: Otto Dopfer (TU Berlin, Germany)

10:00 Masaaki Fujii (Tokyo Institute of Technology, Japan)
Bottom-up Approach to Molecular Recognition in Biological Systems: ESI / Cold Ion Trap Spectroscopy

10:30 Christophe Juvet (Uni Marseille, France)
Dissociative Electron Photodetachment, Photofragmentation of Deprotonated Molecules

11:00 Anne Zehnacker (Uni Paris-Sud, France)
Clustering of Flexible Chiral Molecules: Supersonic Expansion vs. Solid-State spectroscopy

11:30 Helmut Schwarz, C. Geng, J. Li, M. Schlangen, T. Weiske, S. Shaik (TU Berlin, Germany)
Metal Carbenes and Metal Carbides as Efficient C-C Coupling Partner for Methane

**12:00 Conference Photo
Lunch (EW 359) & Poster Session (EW 359) & Laboratory Tour (EW 3rd floor)**

14:00 Knut R. Asmis (Uni Leipzig, Germany)
Single Nanoparticle Action Spectroscopy

14:30 Roland Mitric (Uni Würzburg, Germany)
Ultrafast exciton localisation and excimer formation dynamics in molecular aggregates

15:00 Dan Neumark (UC Berkeley, USA)
High Resolution Photoelectron Spectroscopy of Cryogenically-Cooled Anions

15:30 Kuntal Chatterjee (TU Berlin, Germany)
*IR Spectroscopy of Protonated Benzonitrile-(H₂O)_n Clusters:
Intracluster Proton Transfer and Effects of Aromatic Doping on the properties of H⁺(H₂O)_n*

15:45 Coffee Break

16:15 Henrik G. Kjaergaard (Uni Kopenhagen, Denmark)
Gibbs Energy of Bimolecular Complexes

16:45 Klaus Müller-Dethlefs (Uni Manchester, England)
Observation of a Periodic Many-Body System in an Ultra-Cold Molecular Plasma

17:15 Pavel Hobza (Academy of Sciences of the Czech Republic, Prague, Czech Republic)
Electronic Structure of Fe(II)-Porphine-Like Molecules and Their Complexes: Theory and Experiment

17:45 Marko Förstel (TU Berlin, Germany)
Optical Spectroscopy of Gold Clusters

18:00 Closing Remarks

List of Posters

(EW 359 12:00-14:00)

1 Kuntal Chatterjee and Otto Dopfer

Hydrogen Bonding of Protonated Benzonitrile with Protic and Aprotic Ligands

2 Kuntal Chatterjee, Yoshiteru Matsumoto and Otto Dopfer

Aromatic Charge Resonance Interaction Probed by Infrared Spectroscopy

3 Kuntal Chatterjee and Otto Dopfer

Deciphering the Elusive Structure of the Fragment Ions of a Probable Interstellar Biomolecular Building Block: The Case of Pyrimidine

4 Kai Pollow, Karim Saroukh, Robert Radloff, Lars Dahllöf, Marko Förstel and Otto Dopfer

Measurement of Optical Spectra of Astrophysically Relevant Si-bearing Molecules

5 Marko Förstel, Karim Saroukh, Kai Pollow, Otto Dopfer

Optical Spectroscopy of Small Cluster Cations

6 Robert Radloff, Lars Dahllöf, Kai Pollow, Karim A. Saroukh, Marko Förstel and Otto Dopfer

Geometry and Optical Properties of Astrochemically Relevant Silicon Carbide Clusters

7 Martin George, Friedrich Buttenberg and O. Dopfer

IR Spectroscopy of Amantadine-Water Cluster Cations: First Step of Microhydration

8 David Müller, Ronan Demarbaix and Otto Dopfer

Optical Cryogenic Ion Spectroscopy of Metalated Flavin Complexes