

## Sunday, August 21<sup>st</sup>

18:00-20:00	Welcome reception and registration
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## Monday, August 22<sup>nd</sup>

08:15-08:30	Introduction
Chair	<b>Jochen Küpper</b>
08:30 – 09:15 <b>Keynote</b>	<b>Bas van de Meerakker:</b> <i>Cold and controlled collisions using tamed molecular beams</i>
09:15 – 09:45 <b>Invited</b>	<b>Robert Continetti:</b> <i>Probing entrance and exit channel dynamics in Hydroxyl radical reactions by photo detachment</i>
09:45 – 10:15 <b>Invited</b>	<b>Jolijn Onvlee:</b> <i>Towards controlled reactive collisions</i>
10:15 – 10:40	Coffee break
Chair	<b>Marc Brouard</b>
10:40 – 11:10 <b>Invited</b>	<b>Lola González-Sánchez:</b> <i>Study of gas-phase reactions of small systems with relevance in astrochemistry</i>
11:10 – 11:30 <b>Hot Topic</b>	<b>Jutta Toscano:</b> <i>Conformationally-selected ions for reactions with conformationally-selected molecules</i>
11:30 – 11:50 <b>Hot Topic</b>	<b>Tim Michaelsen:</b> <i>Disentangling the competition of elimination and nucleophilic substitution dynamics</i>
12:00 – 13:30	Lunch
13:30 – 15:00	Poster session
<b>Mixed Hot Topic Session</b>	
Chair	<b>Vincent Wanie</b>
15:00 – 15:20 <b>Hot Topic</b>	<b>Sebastian Jackson:</b> <i>Time-resolved photoelectron imaging with a vacuum-integrated hollow capillary fiber light source</i>
15:20 – 15:40 <b>Hot Topic</b>	<b>Md Sabbir Ahsan:</b> <i>Excited state electronic structure and ultrafast relaxation dynamics in aqueous pyrazine probed using liquid-jet time-resolved photoelectron spectroscopy</i>
15:40 – 16:00 <b>Hot Topic</b>	<b>Marcos Dantus:</b> <i>Unusual chemistry involving rearrangement and roaming following strong-field ionization of CH<sub>3</sub>NCS</i>
16:00 – 16:30	Coffee break
<b>Astrophysics and Astrochemistry</b>	
Chair	<b>Andrey Yachmenev</b>
16:30 – 17:00 <b>Invited</b>	<b>Ewine van Dishoeck:</b> <i>Molecular processes between the stars</i>
17:00 – 17:30 <b>Invited</b>	<b>Wolf Geppert:</b> <i>Ion processes in space and planetary atmospheres</i>
17:30 – 18:00 <b>Hot Topic</b>	<b>Sándor Demes:</b> <i>State-to-state cross section and rate coefficients for the rotational excitation of polyatomic hydrides in astrophysical environments</i>
18:30 – 20:00	Dinner
20:00 – 21:00	Poster session & refreshments

## Tuesday, August 23<sup>rd</sup>

### Chirality

Chair	<b>Marie Elena Castellani</b>
08:30 – 09:15 <b>Keynote</b>	<b>Olga Smirnova:</b> <i>Ultrafast chirality: twisting light to twist electrons on ultrafast time scale.</i>
09:15 – 09:45 <b>Invited</b>	<b>Valérie Blanchet:</b> <i>Photoelectron elliptical dichroism spectroscopy of resonance-enhanced multiphoton ionization</i>
09:45 – 10:15 <b>Invited</b>	<b>Thomas Baumert:</b> <i>New avenues in laser-based photoelectron circular dichroism</i>
10:15 – 10:40	Coffee break
10:40 – 11:10 <b>Invited</b>	<b>Laurent Nahon:</b> <i>Conformational landscape in floppy chiral systems explored by one-photon Photoelectron Circular Dichroism (PECD)</i>
11:10 – 11:30 <b>Hot Topic</b>	<b>Vincent Wanie:</b> <i>Probing electronic coherences in chiral molecules</i>
11:30 – 11:50 <b>Hot Topic</b>	<b>Malte Oppermann:</b> <i>Chiral control of spin-crossover dynamics in Fe(II) complexes</i>
12:00 – 13:30	Lunch + MOLEC Board meeting & European Physical Society (EPS) meeting
13:30 – 15:00	Poster session
<b>Clusters and Droplets</b>	
Chair	<b>Andrea Trabattoni</b>
15:00 – 15:20 <b>Hot Topic</b>	<b>Jan Krohn:</b> <i>How heteromolecular clusters promote the condensation of volatile components in multicomponent vapors</i>
15:20 – 15:40 <b>Hot Topic</b>	<b>Tadas Balciunas:</b> <i>Ultrafast proton transfer in aqueous urea dimers probed by X-ray absorption spectroscopy</i>
15:40 – 16:00 <b>Hot Topic</b>	<b>Connor Clarke:</b> <i>Identification of the Low-energy shape resonances of a nucleobase in water</i>
16:00 – 16:30	Coffee break
16:30 – 17:00 <b>Invited</b>	<b>Tais Gorkhover:</b> <i>X-ray imaging at the nanoscale with atto-second time resolution</i>
17:00 – 17:30 <b>Invited</b>	<b>Henrik Stapelfeldt:</b> <i>The primary steps of ion solvation</i>
17:30 – 18:00 <b>Invited</b>	<b>María Pilar de Lara-Castells:</b> <i>Towards a molecular-level understanding of fluxional metal atomic clusters. Recent case studies</i>
18:30 – 20:00	Dinner
20:00 – 21:00	Poster session & refreshments

## Wednesday, August 24<sup>th</sup>

### Structural Dynamics

Chair	<b>Marcos Dantus</b>
08:30 – 09:15 <b>Keynote</b>	<b>Majed Chergui:</b> <i>Molecular photophysics and photochemistry probed by ultrafast X-ray spectroscopies</i>
09:15 – 09:45 <b>Invited</b>	<b>Markus Gühr:</b> <i>X-ray probing of nucleobase dynamics – comparing different X-ray observables</i>
09:45 – 10:15 <b>Invited</b>	<b>Stefanie Gräfe:</b> <i>Plasmonic hybrid systems in external light fields: from high-resolution sensing to plasmonic catalysis</i>
10:15 – 10:40	Coffee break
10:40 – 11:10 <b>Invited</b>	<b>Luis Bañares:</b> <i>Imaging the photodissociation dynamics of small hydrocarbon radicals</i>
11:10 – 11:30 <b>Hot topic</b>	<b>Rebecca Boll:</b> <i>X-ray induced Coulomb explosion imaging of complex molecules</i>
11:30 – 11:50 <b>Hot topic</b>	<b>Andrey Yachmenev:</b> <i>Quantum flows neural network for variational solutions of the Schrödinger equation</i>
12:00 – 13:30	Lunch
13:30 – 15:30	Facility tour
15:30 – 16:00	Coffee break

### Ultrafast Surface Chemistry and Collisions

Chair	<b>Sebastian Trippel</b>
16:00 – 16:30 <b>Invited</b>	<b>Arianna Marchioro:</b> <i>Aqueous Nanoscale Systems</i>
16:30 – 17:00 <b>Invited</b>	<b>Geert-Jan Kroes:</b> <i>Towards a chemically accurate description of reactions of molecules with transition metal surfaces</i>
17:00 – 17:20 <b>Hot topic</b>	<b>Ofer Neufeld:</b> <i>The mechanism of high harmonic generation in liquids and its application for electron scattering spectroscopy</i>
17:20 – 17:40 <b>Hot topic</b>	<b>Helen Chadwick:</b> <i>Stopping molecular rotation using coherent ultra-low energy magnetic manipulations</i>
17:40 – 18:00 <b>Hot topic</b>	<b>Andrea Trabatttoni:</b> <i>Realtime tracking of plasmon dephasing in a sub-nm system</i>
18:30 – 18:30	Break
18:30 – 19:00	Zdenek Herman MOLEC Young Scientist Prize Winner Presentation
19:00 – 19:30	MOLEC Senior Prize Winner Presentation
19:30 – 21:30	Dinner

Thursday, August 25 <sup>th</sup>	
Ultrafast Electron Dynamics	
Chair	Alicia Palacios
08:30 – 09:15 <b>Keynote</b>	<b>Angel Rubio:</b> <i>Strong light matter phenomena in molecules and low dimensional systems: from first principles</i>
09:15 – 09:45 <b>Invited</b>	<b>Nirit Dudovich:</b> <i>Attosecond interferometry</i>
09:45 – 10:15 <b>Invited</b>	<b>Françoise Remacle:</b> <i>Exploiting electronic entanglement for steering bond dynamics in molecules pumped by ultrashort optical pulses</i>
10:15 – 10:40	Coffee break
10:40 – 11:10 <b>Invited</b>	<b>Michael Robb:</b> <i>Controlling the electrons in excited state chemistry. Some explorations with the Quantum Ehrenfest method (QuEh)</i>
11:10 – 11:30 <b>Hot topic</b>	<b>Mikhail Osolodkov:</b> <i>Attosecond dynamics measured in the C state of molecular nitrogen</i>
11:30 – 11:50 <b>Hot topic</b>	<b>Mats Simmermacher:</b> <i>Probing Electron Dynamics with Ultrafast X-Ray Scattering</i>
12:00 – 18:00	Lunch and Social Event
18:30 – 21:00	Conference Dinner

Friday, August 26 <sup>th</sup>	
Ultracold Chemistry	
Chair	Bas van de Meerakker
08:30 – 09:15 <b>Keynote</b>	<b>Goulven Quémener:</b> <i>State-to-state chemistry of ultracold molecules</i>
09:15 – 09:45 <b>Invited</b>	<b>Astrid Bergeat:</b> <i>Water molecules in space: near-thresholds inelastic collisions of water isotopes</i>
09:45 – 10:15 <b>Invited</b>	<b>Manfred Mark:</b> <i>Few- and many-body physics with ultracold dipolar quantum gases</i>
10:15 – 10:45 <b>Invited</b>	<b>Katrin Dulitz:</b> <i>Study and control of chemi-ionization reactions</i>
10:45 – 11:10	Coffee break
Mixed Hot Topic Session	
Chair	Francesca Calegari
11:10 – 11:30 <b>Hot topic</b>	<b>Margarita Khokhlova:</b> <i>Chiral steering of free-induction decay</i>
11:30 – 11:50 <b>Hot topic</b>	<b>Davide Faccialà:</b> <i>Time resolved chiral X-Ray photoelectron spectroscopy of fenchone with transiently enhanced atomic site-selectivity</i>
11:50 – 12:00	Closing remarks