



Monday 23 May 2022

12:00	Registration, tea and coffee
12:45	Lunch and online poster session
13:45	Welcome and introductions Eric Collet, <i>Chair of Scientific Committee</i>
13:55	Outline of Discussion format <i>Royal Society of Chemistry Publishing Editors</i>
14:00	Introductory Lecture Steven L. Johnson <i>ETH Zurich and Paul Scherrer Institute, Switzerland</i> (Chair: Eric Collet)
15:00	Break
15:15	Session 1: Material science: ultrafast transformation, electron-phonon coupling, multi-scale aspects (Session Chairs: Shinya Kosihara and Eric Collet)
15:15	Visualizing optically-induced strains by five-dimensional ultrafast electron microscopy Asuka Nakamura, Takahiro Shimojima and <u>Kyoko Ishizaka*</u> <i>The University of Tokyo, Japan</i>
15:20	Ultrafast dynamics in (TaSe₄)₂I triggered by valence and core-level excitation Manuel Tuniz, Giuseppe Crupi, Michela De Col, Denny Puntel, Davide Soranzio, Alessandro Giammarino, Michele Perlangeli, Helmuth Berger, Dario De Angelis, Danny Fainozzi, Ettore Paltanin, Stefano Pelli Cresi, Gabor Kurdi, Laura Foglia, Riccardo Mincigrucci, Fulvio Parmigiani, Filippo Bencivenga, Federico Cilento and <u>Wibke Bronsch</u> <i>Elettra Sincrotrone Trieste, Italy</i>
15:25	Ultrashort and metastable doping of the ZnO surface by photoexcited defects Lukas Gierster, Sesha Vempati and <u>Julia Stähler*</u> <i>Humboldt-Universität zu Berlin, Germany</i>
15:30	Discussion
16:30	Lightning presentations (by invitation of the Scientific Committee)
16:45	Poster session and wine reception



Tuesday 24 May 2022

09:00	Session 2: Theory of out of equilibrium light-induced phenomena (Session Chairs: Lara Benfatto and Eric Collet)
09:00	Quantum dynamics simulations of the thermal and light-induced high-spin to low-spin relaxation in Fe(bpy)₃ and Fe(mtz)₆ Miquel Huix-Rotllant, Coen de Graaf and <u>Marc Alías-Rodríguez</u> <i>ICREA / Universitat Rovira i Virgili, Spain</i>
09:05	Quantum entanglement control on electron-phonon systems by light irradiation Hiroaki Matsueda, Akira Kamada and <u>Kunio Ishida</u> <i>Utsunomiya University, Japan</i>
09:10	Quench-drive spectroscopy of cuprates Dirk Manske and <u>Matteo Puviani</u> <i>Max Planck Institute for Solid State Research, Germany</i>
09:15	Discussion
10:30	Morning break
11:00	Session 2 cont.: Theory of out of equilibrium light-induced phenomena (Session Chairs: Lara Benfatto and Eric Collet)
11:00	Signatures of coherent vibronic exciton dynamics and conformational control in the two-dimensional electronic spectroscopy of conjugated polymers Dominik Brey, Robert Binder, Rocco Martinazzo and <u>Irene Burghardt*</u> <i>Goethe University Frankfurt, Germany</i>
11:05	THz non-linear optical response in cuprates: predominance of the BCS response over the Higgs mode Jacopo Fiore, Tommaso Cea, Claudio Castellani, Goetz Seibold, Lara Benfatto and <u>Mattia Udina</u> <i>Sapienza University of Rome, Italy</i>
11:10	Signatures of collective modes in fifth harmonic generation of BCS superconductor Pascal Derendorf, Marvin A. Müller and <u>Ilya M. Eremin*</u> <i>Ruhr-University Bochum, Germany</i>
11:15	Discussion
12:30	Lunch and online poster session
14:00	Session 3: Optical excitation processes (Session Chairs: Lin Chen and Olof Johansson)
14:00	Out-of-equilibrium dynamics driven by photoinduced charge transfer in CsCoFe Prussian blue analogue nanocrystals Marius Hervé, Sandra Mazerat, Laure Catala, Roberto Alonso-Mori, James M. Glowina, Sanghoon Song, Matteo Levantino, Talal Mallah, Marco Cammarata, Eric Collet and <u>Serhane Zerdane*</u> <i>Paul Scherrer Institut, Switzerland</i>
14:05	Nonequilibrium dynamics of α-RuCl₃ – a time-resolved magneto-optical spectroscopy study Julian Wagner, Anuja Sahasrabudhe, Rolf Versteeg, Zhe Wang, Vladimir Tsurkan, Alois Loidl, Paul H. M. van Loosdrecht and <u>Hamoon Hedayat*</u> <i>University of Cologne, Germany</i>
14:10	Ultrafast branching in intersystem crossing dynamics revealed by coherent vibrational wavepacket motions in a bimetallic Pt(II) complex Andrew J. S. Valentine, Subhangi Roy, Alexis W. Mills, Felix N. Castellano, Xiaosong Li, Lin X. Chen and <u>Pyosang Kim*</u> <i>Northwestern University/Argonne National Laboratory, USA</i>
14:15	Discussion
15:30	Afternoon break
16:00	Session 3 cont.: Optical excitation processes (Session Chairs: Lin Chen and Olof Johansson)



16:00	On the use of vibronic coherence to identify reaction coordinates for ultrafast excited-state dynamics of transition metal-based chromophores James McCusker and Bryan C. Paulus <i>Michigan State University, USA</i>
16:05	Ultrafast manipulation of the NiO antiferromagnetic order via sub-gap optical excitation Xiaocui Wang, Robin Y. Engel, Igor Vaskivskyi, Diego Turenne, Vishal Shokeen, Alexander Yaroslavlsev, Oscar Grånäs, Ronny Knut, Jan O. Schunck, Siarhei Dziarzhyski, Günter Brenner, Ru-Pan Wang, Marion Kuhlmann, Frederik Kuschewski, Wibke Bronsch, Christian Schüßler-Langeheine, Andriy Styervoyedov, Stuart S. P. Parkin, Fulvio Parmigiani, Olle Eriksson, Martin Beye and <u>Hermann A. Dürr*</u> <i>Uppsala University, Sweden</i>
16:10	Attosecond electronic delay response in dielectric materials Husain Alqattan, Dandan Hui, Mohamed Sennary and <u>Mohammed Th. Hassan*</u> <i>University of Arizona, USA</i>
16:15	Discussion
17:30	Close of sessions
18:30	Pre-dinner drinks
19:00	Conference dinner



Wednesday 25 May 2022

09:00	Session 4: THz and laser field excitation processes (Session Chairs: Olof Johansson and Shinya Kosihara)
09:00	Petahertz charge dynamics in a correlated organic superconductor Yohei Kawakami, Hirotake Itoh, Kenji Yonemitsu and <u>Shinichiro Iwai</u> <i>University of Tohoku, Japan</i>
09:05	Local excitation and valley polarization in graphene with multi-harmonic pulses Ulf Saalmann and <u>Jan Michael Rost</u> <i>Max Planck Institute for the Physics of Complex Systems, Germany</i>
09:10	Discussion
10:00	Morning break
10:30	Session 4 cont.: THz and laser field excitation processes (Session Chairs: Olof Johansson and Shinya Kosihara)
10:30	Modelling nonlocal nonlinear spin dynamics in antiferromagnetic orthoferrites Yuichi Saito and <u>Rostislav V. Mikahylovskiy</u> <i>Lancaster University, UK</i>
10:35	Impact of the terahertz and optical pump penetration depths on generated strain waves temporal profiles in a V_2O_3 thin film Michael Rodriguez-Fano, Lucas Gournay, Nicolas Godin, Marius Hervé, Gaël Privault, Julien Tranchant, Zohra Khaldi, Marco Cammarata, Eric Collet, Etienne Janod, Christophe Odin and <u>Guénolé Huitric</u> <i>Institut de Physique de Rennes, France</i>
10:40	Discussion
11:30	Concluding Remarks Lecture Graham Fleming <i>Lawrence Berkeley National Laboratory, USA</i> (Chair: Eric Collet)
12:15	Poster prize presentation and acknowledgements Eric Collet, <i>Chair of Scientific Committee</i>
12:25	Close of meeting and lunch

Presenting authors are indicated in the programme by an underline. The affiliation is for the presenting author. If the presenting author of your paper has changed since abstract selection please email events@rsc.org.

*Speakers presenting virtually are denoted with an asterisk.

Please note that this is a draft programme and timings may change.