Virtual DPG-Frühjahrstagung (DPG Spring Meeting) of the Surface Science Division

March 1-4, 2021

Ultrafast surface dynamics at the space-time limit

Over the past years, remarkable advances have been made in the development of ultrafast surface science techniques, allowing us to watch the nonequilibrium state of surfaces after ultrafast excitation with unprecedented spatiotemporal resolution, momentum resolution, and surface sensitivity. This opens up new perspectives for the investigation of femtosecond molecular dynamics, for coherent control of matter, and to follow the evolution of electrons and atoms at surfaces during ultrafast phase transitions.

This Symposium intends to bring together scientists and young researchers in the active and complementary fields of ultrafast surface science, with a joint interest in the response of surfaces at the atomic and femtosecond scale.

Keynote speakers

Jascha Repp

Institute of Experimental and Applied Physics University of Regensburg

"Actuating and probing a single-molecule switch at femtosecond timescales"

Sebastian Loth

University of Stuttgart & Max Planck Institute for Solid State Research, Stuttgart

"Atomic-resolution imaging of THz-driven dynamics on charge-ordered surfaces"

Invited contributions

Manish Garg

Max Planck Institute for Solid State Research, Stuttgart

"Real space-time imaging of valence electron motion in molecules"

Claus Ropers

University of Göttingen & Max Planck Institute for Biophysical Chemistry, Göttingen

"Ultrafast structural phase transitions probed by low-energy electron diffraction"

Steve Johnson

Institute for Quantum Electronics, ETH Zurich & SwissFEL, Paul Scherrer Institut

"The ultrafast Einstein-de Haas effect triggered by ultrafast demagnetization"

Julian Maklar

Fritz Haber Institute, Berlin

"Probing the ultrafast electron dynamics in the quantum spin Hall system Bismuthene with time-resolved ARPES"

Join us!

Submit your contribution and take

Round table poster discussions

Submit an abstract to join us in a live broadcasted interactive discussion about your latest research with distinguished experts and colleagues!

Contributions are selected from the submissions and arranged thematically to foster a fruitful discourse.

- * Multiple round tables in parallel breakout sessions
- * Each round table is attended by a moderator and 5-6 discussion partners
- * Attendees receive posters of their round table to prepare prior to the meeting
- * Q&A session for general audience after each contribution

Submit here: https://surfacescience21.dpg-tagungen.de/

Scientific organizers: Melanie Müller - Fritz Haber Institute Berlin Hannes Böckmann - University of Göttingen