

Theoretical Physics Symposium "Beyond Multiferroics" 9-11 November 2022 Hamburg

Location: DESY Hamburg, Auditorium CSSB, bldg. 15

Wednesday 09.11 (Theory of condensed matter)

Coffee-breakfast 8:30-9:00

9:00-9:45

Yoshi Tokura (RIKEN, Japan)

Extended Multiferroics for Emergent Electromagnetic Induction

9:45-10:30

Ingrid Mertig (Uni Halle)

Coffee break 10:30-11:00

11:00-11:45

Mikhail Katsnelson (Radboud Uni, Nijmegen)

Complexity of magnetic patterns and self-induced spin glass state

11:45-12:30

Susanne Stemmer (UCSB, USA)

Lunch 12:30-14:00 and Posters

14:00-14:45

Ramesh Ramamoorthy (Berkeley, USA)

Science and Technology of Complex Correlated Oxides

Coffee break 14:45-15:00

15:00-15:45

Sinéad Griffin (Berkeley Lab, USA)

Searches for fundamental physics in Multiferroics

15:45-16:30

Sang Cheong (Rutgers, USA)

Symmetry-guided Perspectives on "Beyond Multiferroics"

17:00 Shuttle bus from the CSSB, bldg. 15 to Planetarium Hamburg

18:30-21:00 Award ceremony & reception

Thursday 10.11 (Dynamics of quantum many-body systems)

Coffee-breakfast 8:30-9:00

9:00-9:45

Chiara Gattinoni (ISBU, UK)

9:45-10:30

Dominik Juraschek (TAU, Tel Aviv)

Shaken, not strained: How to control materials properties with lattice vibrations

Coffee break 10:30-11:00

11:00-11:45

Marisa Medarde (PSI, Zurich)

Layered perovskites between two worlds: from multiferroicity to water splitting catalysis

11:45-12:30

Silvia Picozzi (CNR, Italy)

Spin-orbit coupling in multi-ferroics: microscopic mechanisms and materials modelling

Lunch 12:30-14:00 and Posters

14:00-14:45

Urs Staub (PSI, Zurich)

Driving atoms and spins with ultrashort electric/magnetic fields

Coffee break 14:45-15:00

15:00-15:45

Manfred Fiebig (ETH, Zurich)

Multiferroic Functionalities from Inhomogeneity

15:45-16:30

Eugene Demler (ETH, Zurich)

16:30 Shuttle bus from the CSSB, bldg. 15 to Eu-XFEL

17:00-20:00 XFEL-excursion & reception

Friday 11.11 (Quantum Materials)

Coffee-breakfast 8:30-9:00

9:00-9:45

Marta Rossell (EMPA, Switzerland)

Interplay between experiments and theory in the study of multiferroics

9:45-10:30

Salvador Pané (ETH, Zurich)

Magnetoelectric Small-Scale Robots

Coffee break 10:30-11:00

11:00-11:45

Philip Moll (MPI-MPSD, HH)

Correlations and topology: Intertwined orders in the Kagome metal CsV_3Sb_5

11:45-12:30

Maxim Mostovoy (RUG, Groningen)

Electric charges induced by topological spin textures

12:30-13:15

Nicola Spaldin (ETH, Zurich)

Beyond Multiferroics

Closing remarks

Lunch 13:15-15:00 and Posters

Coffee break 15:00-15:45