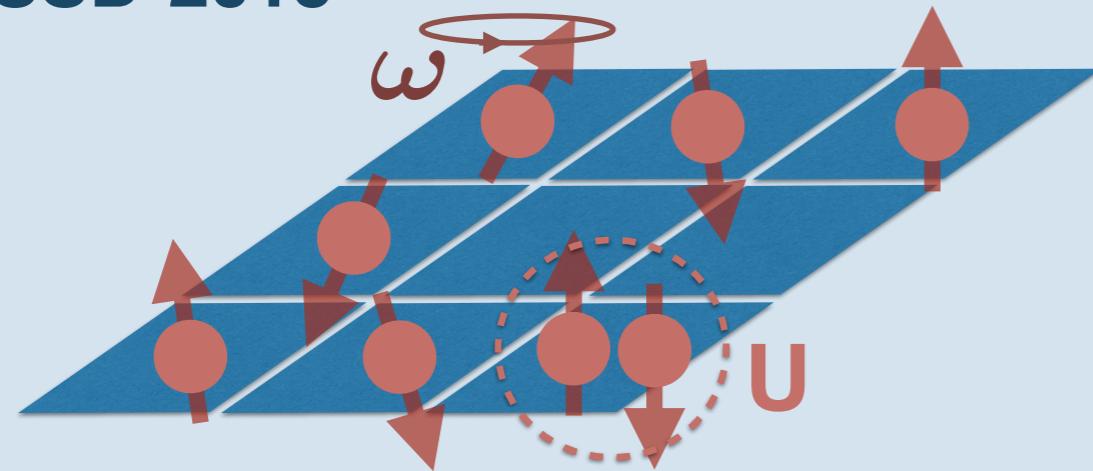


Workshop on Correlated Electronic Structure and Spin Dynamics

CESSD-2015



Relations between strong correlations in the electronic structure of solids and the real-time dynamics of local spins are yet largely unexplored but fundamental for an understanding of time-dependent phenomena in novel magnetic materials.

This workshop comprises a broad range of topics in this interdisciplinary field, such as

- the formation of local magnetic moments as a signature of electron correlations,
- effects of strong Coulomb interaction on the characteristics of spin excitations,
- signatures of spin excitations in the spectral function of magnetic materials,
- different time scales in the real-time dynamics of electrons and spins,
- the feedback of spin-dynamics on the time-dependent electronic structure.

Novel theoretical and experimental techniques will be discussed as well as topical physical problems and promising routes providing new fundamental insights.

Hamburg, May 6 - May 7, 2015

Speakers:

Frithjof Anders (Technische Universität Dortmund)
Stefan Blügel (Forschungszentrum Jülich)
Uwe Bowensiepen (Universität Duisburg-Essen)
Olle Eriksson (Uppsala University)
Leonid Glazman (Yale University)
Mikhail Katsnelson (Radboud University of Nijmegen)
Stefan Kehrein (Georg-August-Universität Göttingen)
Klaus Kern (MPI Stuttgart)
Peter Kopietz (J.W.Goethe-Universität Frankfurt)
Yigal Meir (Ben Gurion University)
Sander Otte (Delft University of Technology)
Thomas Pruschke (Georg-August-Universität Göttingen)
Alexey Rubtsov (Moscow State University)
Jürgen Schnack (University of Bielefeld)
Dieter Vollhardt (Universität Augsburg)
Philipp Werner (University of Fribourg)

Organizers:

Martin Eckstein (Center for Free-Electron Laser Science)
Frank Lechermann (Hamburg University)
Alexander Lichtenstein (Hamburg University)
Michael Potthoff (Hamburg University)
Klaus Sengstock (Hamburg University)
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