Prospects and Limitations of Electronic Structure Imaging by Angle Resolved Photoemission Spectroscopy

International Focus Workshop
25 - 27 April 2016

Recent developments in orbital imaging by Angle Resolved Photoelectron Spectroscopy (ARPES) have provided fascinating insight into molecular materials. This workshop will review the present state-of-the-art in this field, addressing both experimental and theoretical questions, and explore future perspectives.

Topics include
- Limits of the plane wave final state assumption and understanding of final state effects in theory and experiment
- Advances in theory, such as correlated time-dependent simulations, Green’s functions, e.g. GW, and beyond
- Phase retrieval and reconstruction of orbitals in real space
- Energy dependent experiments and 3D tomography
- New experimental capabilities, such as high harmonics generation and ARPES experiments with time resolution

Invited speakers
- Hubert Ebert (DE)
- Andrea Ferretti (IT)
- Ulrich Höfer (DE)
- Leeor Kronik (IL)
- Matti Lindroos (FI)
- Simon Moser (CH)
- Jürg Osterwalder (CH)
- Peter Puschnig (AU)
- Michael Ramsey (AU)
- Friedrich Reinert (DE)
- Angel Rubio (DE)
- Stefan Tautz (DE)
- Nobuo Ueno (JPN)
- Martin Wolf (DE)
- Matthias Wollenhaupt (DE)

Applications received before January 15, 2016 are considered preferentially.

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Organisation
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