

# International Workshop on Dynamical Correlations in Quantum Matter: From Few- to Many-Body Systems

**Location: Center for Optical Quantum Technologies, University of Hamburg**

**Date: May 30 – June 1, 2012**

Scientific Coordinators:

**Hossein Sadeghpour**

ITAMP – Harvard Smithsonian Center

**Robin Santra**

DESY, University of Hamburg

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Organisation:

**Anja Cordes**

University of Hamburg

The workshop will explore current interests and frontiers of the strongly correlated dynamics of quantum systems. It is a joint venture of the Institute for Theoretical Atomic, Molecular and Optical Physics at Cambridge, Massachusetts, the Center for Free Electron Laser Science and the Center for Optical Quantum Technologies in Hamburg. It covers topics of ultracold atomic and molecular physics on the few- to many-body level that relate to the emergence of their nonequilibrium dynamics as well as attosecond and femtosecond dynamics in atoms, molecules and clusters. The workshop will offer a unique opportunity for all participants to hear about recent advances and emerging challenges in these areas and to work out fruitful interconnections between these fields.

Invited speakers:

A. Becker (Boulder)

T. Calarco (Ulm)

L.S. Cederbaum (Heidelberg)

B. Esry (Kansas)

J. Feist (Cambridge, MA)

C. Greene (Boulder)

H. van der Hart (Belfast)

S. Jochim (Heidelberg)

S. Kuhr (Glasgow)

P. Lambropoulos (Heraklion)

M. Lewenstein (Barcelona)

V. Melezhik (Dubna)

G. Morigi (Saarbrücken)

H.-C. Nägerl (Innsbruck)

A. Rauschenbeutel (Vienna)

S. Rittenhouse (Cambridge, MA)

S. Southworth (Argonne)

J. Ullrich (Heidelberg)

O. Vendrell (Hamburg)

A. Widera (Kaiserslautern)

Applications are welcome and should be submitted through the workshop web-page

**Deadline for applications: April 15, 2012**

For further information please contact:

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<http://photon.physnet.uni-hamburg.de/zoq/workshop-itazocfel>