









Workshop on

Hybrid Atomic Quantum Systems

Center for Optical Quantum Technologies, University of Hamburg

September 28 - 30, 2015

Scientific organisation:

Antonio Negretti and Peter Schmelcher (University of Hamburg), Tommaso Calarco (University of Ulm)

The workshop is supported by the cluster of excellence "The Hamburg Centre for Ultrafast Imaging", the collaborative project "SFB/TRR21 Control of Quantum Correlations in Tailored Matter" of the German Research Foundation, and by the Integrated Project "Simulators and Interfaces with Quantum Systems" of the European Union.

The workshop aims at exploring current research interests and frontiers of the physics of hybrid atomic quantum systems, with particular focus on atom-ion systems. It includes topics such as few and many-particle systems with long-range interactions, cold quantum chemistry and dynamics of controlled molecules, trapping technology for charge particles, and quantum optics and quantum simulation of hybrid systems. The workshop will bring together experts in the field and it will be a unique opportunity for all participants to hear about recent advances and emerging challenges in this research area, but also to establish new research directions and to work out interconnections between these fields.

Invited speakers:

