



## Exploratory Workshop on

# "Rydberg Physics with Two-Electron Systems"

Center for Optical Quantum Technologies, University of Hamburg

February 23 - 25, 2015

### Organisation:

Peter Schmelcher (University of Hamburg) and Matthias Weidemüller (University of Heidelberg)

This workshop is supported by the Marie Curie Initial Training Network COHERENCE. It will explore current interests and frontiers of the Rydberg physics of two-electron systems and includes topics such as long-range interacting many-body systems, dressing, electronic structure and dynamics of highly excited atoms and molecules, quantum optics and hybrid systems, ultracold plasmas as well as emerging fields with Rydberg two-electron systems. 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:

H. P. Büchler (Stuttgart)  
J. Burgdörfer (Wien)  
B. Dunning (Houston)  
T. Gallagher (Virginia)  
C. Greene (Lafayette, IN)  
M. Jones (Durham)  
T. Killian (Houston)  
I. Lesanovsky (Nottingham)

T. Pfau (Stuttgart)  
P. Pillet (Paris)  
T. Pohl (Dresden)  
A. M. Rey (Boulder)  
M. Saffman (Madison, Wisconsin)  
S. Scheel (Rostock)  
F. Schreck (Amsterdam)  
P. Zoller (Innsbruck)

This workshop is organized by the ZOO, University of Hamburg, and financed by the Marie Curie Initial Training Network COHERENCE.

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