

COHERENCE - YEA Workshop and Conference

MPKIKS Dresden, 01 – 12 July, 2013

List of Poster Presentations

Wildan Abdussalam	Crystalline structures in two-dimensional Rydberg lattice gases
Jonathan Balewski & Anita Gaj	Single Rydberg impurities in a Bose-Einstein-Condensate
Georg Bannasch	Creating strongly coupled plasmas via Rydberg blockade of cold atoms
Przemyslaw Bienias	Spontaneous solitons in the thermal equilibrium of a quasi-one-dimensional Bose gas
Elizabeth Bridge	Rydberg blockade in strontium via narrow intercombination lines Hannes Busche
Yurii Dumin	Magnetically stimulated diffusion of ultracold Rydberg atoms
Riccardo Faoro	Observation of a four body resonance in cold cesium Rydberg atoms
Martin Gärttner	Disordered gases of two level Rydberg atoms
Vladislav Gavryusev	Optical imaging of Rydberg atoms in dense atomic gases
Michael Genkin	Entangled Rydberg atom pairs on demand
Laura Gil	Spin squeezing in ultracold strontium lattices
Gian Luca Giorgi	Anti-ferromagnetic order in Rydberg atoms at the steady state of dissipative dynamics
Luís Felipe Gonçalves	Development of an ion imaging system for Rydberg atoms in a CO ₂ dipole trap
Rejish Nath Gopinathan Rejani	Frustrated magnetism using Rydberg excitations in ultra cold atoms/ions
Ed Grant	Rydberg interactions in ultracold plasma dynamics
Michael Höning	Steady-state crystallization in Rydberg gases
Sebastian Hofferberth	Single photon nonlinearities in an ultracold Rydberg gas
Danila Khikhlikha	Kinetic study of ultracold neutral plasma
Andreas Kölle	Coherent excitation of interacting Rydberg gases at room temperature
Mike Kohlhoff	Charge transfer dynamics of Rydberg hydrogen atoms at surfaces Jorge Kondo
Henning Labuhn	Direct measurement of the van der Waals interaction between two single atoms
Weibin Li	Trapped Rydberg ions
Paolo Longo	Collective spontaneous emission of interacting two-level atoms on a lattice
Tommaso Macri	Static and dynamical properties of two-dimensional Rydberg lattices
Maria Martinez Valado	Full counting distribution and phase diagram of a strongly interacting Rydberg gas
Marco Mattioli	Anomalous quantum liquids and cluster states in ultracold Rydberg ensembles
Sebastian Möbius	Entangled Rydberg dynamics and quantum simulation of heavy-tailed disorder
Rick Mukherjee	Creation of GHZ-states in optical lattices of alkaline-earth atoms
Julian Naber	Microtrap arrays on a magnetic film atom chip for quantum information science
Huan Nguyen & Michael Schlagmüller	High resolution optical access to single Rydberg excitations in a BEC
Thomas Niederprüm	Rydberg physics on the millisecond timescale
Beatriz Olmos	Long-range interacting many-body systems with alkaline-earth-metal atoms
Johannes Otterbach	Crystallization of photons via light storage in a gas of Rydberg atoms
Alexei Ourjoumtsev	Dispersive optical nonlinearities using cold Rydberg atoms

David Paredes-Barato	Photonic phase-gate using Rydberg atoms and microwaves
David Peter	Driving dipolar fermions into the quantum Hall regime by spin-flip induced insertion of angular momentum
D.D. Bhaktavatsala Rao	Dark entangled steady states of Rydberg interacting atoms
Heiner Sassmannshausen	High-resolution spectroscopy of ultracold Rydberg atoms
Peter Schauß	Observation of ordered structures in a two-dimensional Rydberg gas
David Schönleber	Monte-Carlo approach to many-body Rydberg dynamics
Jereson Silva Valencia	Phase diagram of bosons with local three-body interactions under off-diagonal confinement
Michal Tarana	<i>tba</i>
Andrew Wade	Rydberg ensembles: The single photon toolbox
Luis Ever Young Silva	Universality of a dipolar Bose-Einstein condensate at unitarity
Johannes Zeiher	Spin interactions in ultracold many-body systems
Hao Zhang	Autler-Townes splitting of a cascade system in ultracold cesium Rydberg atoms
Jianming Zhao	Stark-induced L-mixing interferences in ultracold cesium Rydberg atoms

