

# DFG Forschergruppe 635

## "Quantum Control and Simulation with Distributed Neutral Atom Systems"

Bonn-Hannover-MPQ

### Internal Meeting FOR635 III on 17. November 2011, Garching, MPQ, Herbert Walther Lecture Room

**Nov 16** MPQ Lab Tours: 14:00-16:00 labs Rempe division, 16:00-16:30 break, 16:30 labs Bloch division, 19:00 lab tour Bloch division at LMU, 21:00 Dinner at Atzinger (Schellingstr. 9, München)

**Nov 17** 08:25 MPQ Herbert Walther Lecture Room: Welcome

Time	Group	Speaker(s)	Title
08:30-09:20	Bloch Group	M. Atala	Experimental observation of resonating valence bond states with ultracold bosonic atoms
		M. Aidelsburger	Artificial magnetic fields with ultracold atoms
09:20-10:10	Meschede Group	A. Alberti	A digital atom interferometer with single trapped particles on a discretized spacetime geometry
<b>10:10-10:40 Coffee Break with cookies</b> HWHS			
10:40-11:30	Rempe Group	S. Ritter	Information exchange at the quantum limit
		T. Wilk	Quantum dynamics of a strongly driven atom-cavity system
11:30-12:00	Werner Group		Walking Molecules
<b>12:00-13:30 Lunch Break B 0.21 und B 0.22</b>			
13:30 - 14:00	Ext. Speaker 1	S. Kuhr	Single-site-resolved detection and manipulation of atoms in an optical lattice
14:00-14:30	Cirac Group	M.C. Banuls	Adiabatic preparation of Heisenberg antiferromagnet with ultracold fermions
<b>14:30-15:00 Coffee Break with cakes and cookies</b> HWHS			
15:00-15:50	Ext. Speaker 2	A. Kuhn	Single-Photon Shaping and Phase Control
15:50-16:30	Business Meeting FOR635		
16:30	Sandwiches in B 0.22 for external guests who leave after the Meeting		