

## Publications of the SFB/TR49 according to projects, 2007 - 2014

### A03

A. Sotnikov and W. Hofstetter

*Magnetic Ordering of Three-Component Ultracold Fermionic Mixtures in Optical Lattices*  
Phys. Rev. A **89**, 063601 (2014) [abstract, arXiv:1402.3397]

I. Vidanovic, D. Cocks, and W. Hofstetter

*Dissipation through localised loss in bosonic systems with long-range interactions*  
Phys. Rev. A **89**, 053614 (2014) [abstract, arXiv:1402.0011]

U. Bissbort, D. Cocks, A. Negretti, Z. Idziaszek, T. Calarco, F. Schmidt-Kaler, W. Hofstetter, R. Gerritsma

*Emulating Solid-State Physics with a Hybrid System of Ultracold Ions and Atoms*  
Phys. Rev. Lett. **111**, 080501 (2013). [abstract, arXiv:1304.4972]

see also accompanying Physics Synopsis and Press Release

Peter P. Orth, Daniel Cocks, Stephan Rachel, Michael Buchhold, Karyn Le Hur, and Walter Hofstetter

*Correlated Topological Phases and Exotic Magnetism with Ultracold Fermions*  
J. Phys. B: At. Mol. Opt. Phys. **46** (2013) 134004. [abstract, arXiv:1212.5607]

see also LabTalk - When a topological insulator becomes interacting - IOP Science

A. Sotnikov, M. Snoek, and W. Hofstetter

*Magnetic phases of mass- and population-imbalanced ultracold fermionic mixtures in optical lattices*

Phys. Rev. A **87**, 053602 (2013). [abstract, arXiv:1301.1691]

J. Pohlmann, A. Privitera, I. Titvinidze, and W. Hofstetter

*Trion and dimer formation of three-color fermions*

Phys. Rev. A **87**, 023617 (2013). [abstract, arXiv:1211.3598 ]

B. Schmidt, R. Bakhtiari, I. Titvinidze, U. Schneider, M. Snoek, and W. Hofstetter

*Dynamical Arrest of Ultracold Lattice Fermions*

Phys. Rev. Lett. **110**, 075302 (2013). [abstract , arXiv:1205.4031]

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*Time-Reversal-Invariant Hofstadter-Hubbard Model with Ultracold Fermions*

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L. He, Y.-Q. Li, E. Altman, and W. Hofstetter

*Quantum phases of Bose-Bose mixtures on a triangular lattice*

Phys. Rev. A **86**, 043620 (2012). [abstract, arXiv:1205.1806]

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- Y. Li, R. Bakhtiari, L. He, and W. Hofstetter  
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