

Special Issue: Artificial Gauge Fields

Artificial Gauge Fields with Ultracold Atoms in Optical Lattices

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Marcos Rigol Madrazo



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Numerically Exact Studies of Ultracold Atoms on Optical Lattices Marcos Rigol Madrazo, 2004 *Etude des atomes ultra-froids fortement corrélés dans les réseaux optiques* Tung-Lam Dao, 2008 **Controlling Light in Optically Induced Photonic Lattices** Bernd Terhalle, 2011-01-28 Discrete periodic structures play an important role in physics and have opened up an exciting new area of investigation in recent years Questions relating to the control of light in such structures still represent a major challenge It is this highly active field that is addressed in the present thesis Using the model system of a photorefractive nonlinearity that allows one to simultaneously create and control photonic lattices by light the author obtains a comprehensive picture of the control of nonlinear and quantum optics phenomena in photonic lattices He describes and demonstrates experimentally for the first time resonant transitions in two dimensional hexagonal lattices including Rabi oscillations and Landau Zener tunneling as well as the direct control and exploitation of these transitions A particular highlight of this thesis is the study of soliton cluster switching and control of Zener tunneling **Addressing of ultracold atoms in optical lattices** Tim Langen, 2008 *Probing Strongly Correlated States of Ultracold Atoms in Optical Lattices* Simon Fölling, 2008 **Many-body Dynamics of Ultracold Atoms in Optical Lattices** Carlos Alberto Parra Murillo, 2013 Ultracold Bosonic Atoms in Optical Lattices, 2004 **Strong Correlation Effects in Ultracold Atoms in Optical Lattices** Maria Moreno Cardoner, Artur Polls Martí, Universitat de Barcelona. Departament d'Estructura i Constituents de la Matèria, 2012 **Non-equilibrium Dynamics of Ultracold Atoms in Optical Lattices** Jens Philipp Ronzheimer, 2014 Ultracold Atoms in Periodic and Quasiperiodic Optical Lattices Dave Johan Boers, 2005

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