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Artificial Gauge Fields with Ultracold Atoms in Optical Lattices



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Artificial Ultracold Optical Lattices Springer

Michael L. Wall



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Artificial Gauge Fields with Ultracold Atoms in Optical Lattices Monika Aidelsburger, 2015-12-14 This work reports on the generation of artificial magnetic fields with ultracold atoms in optical lattices using laser assisted tunneling as well as on the first Chern number measurement in a non electronic system It starts with an introduction to the Hofstadter model which describes the dynamics of charged particles on a square lattice subjected to strong magnetic fields This model exhibits energy bands with non zero topological invariants called Chern numbers a property that is at the origin of the quantum Hall effect The main part of the work discusses the realization of analog systems with ultracold neutral atoms using laser assisted tunneling techniques both from a theoretical and experimental point of view Staggered homogeneous and spin dependent flux distributions are generated and characterized using two dimensional optical super lattice potentials Additionally their topological properties are studied via the observation of bulk topological currents The experimental techniques presented here offer a unique setting for studying topologically non trivial systems with ultracold atoms [Springer Handbook of Atomic, Molecular, and Optical Physics](#) Gordon W. F. Drake, 2023-02-09 Comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary research literature carefully edited to ensure a uniform coverage and style with extensive cross references Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook **Proceedings of the National Workshop on Recent Advances in Condensed Matter and High Energy Physics** Kusum Lata Pandey, Pradip Kumar Priya, Umesh Kumar Yadav, Prashanta Kumar Khandai, 2022-09-01 This book presents peer reviewed articles from the National Workshop on Recent Advances in Condensed Matter and High Energy Physics 2021 CMHEP 2021 This workshop was held in the Department of Physics Ewing Christian College ECC Prayagraj in collaboration with National Academic of Sciences NASI Prayagraj India in 2021 The book highlights recent theoretical and experimental developments in condensed matter and high energy physics which include novel phases of matter namely crystalline and non crystalline phases unconventional superconducting phases magnetic phases and Quark Gluon plasma phases along with searches of neutrino and dark matter This book provides a good resource for beginners as well as advanced researchers in the field of condensed matter and high energy physics [High Performance Computing in Science and Engineering '21](#) Wolfgang E. Nagel, Dietmar H. Kröner, Michael M. Resch, 2023-01-30

This book presents the state of the art in supercomputer simulation. It includes the latest findings from leading researchers using systems from the High Performance Computing Center Stuttgart HLRS in 2021. The reports cover all fields of computational science and engineering ranging from CFD to computational physics and from chemistry to computer science with a special emphasis on industrially relevant applications. Presenting findings of one of Europe's leading systems, this volume covers a wide variety of applications that deliver a high level of sustained performance. The book covers the main methods in high performance computing. Its outstanding results in achieving the best performance for production codes are of particular interest for both scientists and engineers. The book comes with a wealth of color illustrations and tables of results.

Fluctuations and Non-Equilibrium Phenomena in Strongly-Correlated Ultracold Atoms Kazuma Nagao, 2020-08-25
This book discusses non-equilibrium quantum many-body dynamics recently explored in an analog quantum simulator of strongly correlated ultracold atoms. The first part presents a field-theoretical analysis of the experimental observability of the Higgs amplitude mode that emerges as a relativistic collective excitation near a quantum phase transition of superfluid Bose gases in an optical lattice potential. The author presents the dynamical susceptibilities to external driving of the microscopic parameters taking into account a leading-order perturbative correction from quantum and thermal fluctuations and shows clear signatures of the Higgs mode in these observables. This is the first result that strongly supports the stability of the Higgs mode in three-dimensional optical lattices even in the presence of a spatially inhomogeneous confinement potential and paves the way for desktop observations of the Higgs mode. In the second part, the author applies the semi-classical truncated Wigner approximation (TWA) to far-from-equilibrium quantum dynamics. Specifically, he considers the recent experiments on quantum quench dynamics in a Bose-Hubbard quantum simulator. A direct comparison shows remarkable agreement between the numerical results from TWA and the experimental data. This result clearly indicates the potential of such a semi-classical approach in reliably simulating many-body systems using classical computers. The book also includes several chapters providing comprehensive reviews of the recent studies on cold atomic quantum simulation and various theoretical methods including the Schwinger boson approach in strongly correlated systems and the phase-space semi-classical method for far-from-equilibrium quantum dynamics. These chapters are highly recommended to students and young researchers who are interested in semi-classical approaches in non-equilibrium quantum dynamics.

Physics and Technology of Ultracold Atomic Gases Roberto Onofrio, Luca Salasnich, 2025-01-27
This book is based on lecture notes originally developed for introductory graduate courses offered by the authors at Dartmouth College and the University of Padova. The first two chapters analyze quantum degenerate gases and various cooling and trapping techniques for atoms. The remaining three chapters discuss ultracold atoms as weakly interacting, strongly interacting, and non-interacting coherent systems. The third chapter presents multiple pieces of evidence for quantum degeneracy in Bose and Fermi gases followed by peculiar features such as superfluidity and the formation of topological defects. The fourth chapter addresses strongly

correlated systems discussing the BCS BEC crossover in fermionic gases and quantum phase transitions including their dependence on effective dimensionality The fifth chapter offers a more specific discussion of quantum coherence in ultracold atoms and their potential as a platform for quantum metrology and quantum emulation Four appendices provide more quantitative details of theoretical tools used in the last two chapters Each chapter concludes with problems and a list of more specialized material The main goal is to introduce interested students to ultracold atom physics research topics and expose scientists working in other areas of frontier physics to this novel and exciting research direction This book is also intended to complement existing textbooks in standard courses on condensed matter physics demonstrating how some general elements of the latter can be understood by continuously increasing the interactions between ultracold and quantum degenerate atoms under controlled external conditions

Advances in Quantum Mechanics Alessandro Michelangeli, Gianfausto Dell'Antonio, 2017-08-01 This volume collects recent contributions on the contemporary trends in the mathematics of quantum mechanics and more specifically in mathematical problems arising in quantum many body dynamics quantum graph theory cold atoms unitary gases with particular emphasis on the developments of the specific mathematical tools needed including linear and non linear Schrödinger equations topological invariants non commutative geometry resonances and operator extension theory among others Most of contributors are international leading experts or respected young researchers in mathematical physics PDE and operator theory All their material is the fruit of recent studies that have already become a reference in the community Offering a unified perspective of the mathematics of quantum mechanics it is a valuable resource for researchers in the field

Quantum Many-Body Physics of Ultracold Molecules in Optical Lattices Michael L. Wall, 2015-04-20 This thesis investigates ultracold molecules as a resource for novel quantum many body physics in particular by utilizing their rich internal structure and strong long range dipole dipole interactions In addition numerical methods based on matrix product states are analyzed in detail and general algorithms for investigating the static and dynamic properties of essentially arbitrary one dimensional quantum many body systems are put forth Finally this thesis covers open source implementations of matrix product state algorithms as well as educational material designed to aid in the use of understanding such methods

Enhanced Optical and Electric Manipulation of a Quantum Gas of KRb Molecules Jacob P. Covey, 2018-10-01 This thesis describes significant advances in experimental capabilities using ultracold polar molecules While ultracold polar molecules are an idyllic platform for quantum chemistry and quantum many body physics molecular samples prior to this work failed to be quantum degenerate were plagued by chemical reactions and lacked any evidence of many body physics These limitations were overcome by loading molecules into an optical lattice to control and eliminate collisions and hence chemical reactions This led to observations of many body spin dynamics using rotational states as a pseudo spin and the realization of quantum magnetism with long range interactions and strong many body correlations Further a quantum synthesis technique based on atomic insulators allowed the author to increase the

filling fraction of the molecules in the lattice to 30% a substantial advance which corresponds to an entropy per molecule entering the quantum degenerate regime and surpasses the so called percolations threshold where long range spin propagation is expected Lastly this work describes the design construction testing and implementation of a novel apparatus for controlling polar molecules It provides access to high resolution molecular detection and addressing large versatile static electric fields and microwave frequency electric fields for driving rotational transitions with arbitrary polarization Further the yield of molecules in this apparatus has been demonstrated to exceed 10^5 which is a substantial improvement beyond the prior apparatus and an excellent starting condition for direct evaporative cooling to quantum degeneracy

High Performance Computing in Science and Engineering ' 17 Wolfgang E. Nagel, Dietmar H. Kröner, Michael M. Resch, 2018-02-16

This book presents the state of the art in supercomputer simulation It includes the latest findings from leading researchers using systems from the High Performance Computing Center Stuttgart HLRS in 2017 The reports cover all fields of computational science and engineering ranging from CFD to computational physics and from chemistry to computer science with a special emphasis on industrially relevant applications Presenting findings of one of Europe's leading systems this volume covers a wide variety of applications that deliver a high level of sustained performance The book covers the main methods in high performance computing Its outstanding results in achieving the best performance for production codes are of particular interest for both scientists and engineers The book comes with a wealth of color illustrations and tables of results

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