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Many-Body Schrödinger Dynamics of Bose–Einstein Condensates

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Wolfgang E. Nagel,Dietmar H. Kröner,Michael M. Resch

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Many-Body Schrödinger Dynamics of Bose-Einstein Condensates Kaspar Sakmann,2011-08-31 At extremely low temperatures clouds of bosonic atoms form what is known as a Bose Einstein condensate Recently it has become clear that many different types of condensates so called fragmented condensates exist In order to tell whether fragmentation occurs or not it is necessary to solve the full many body Schr dinger equation a task that remained elusive for experimentally relevant conditions for many years In this thesis the first numerically exact solutions of the time dependent many body Schr dinger equation for a bosonic Josephson junction are provided and compared to the approximate Gross Pitaevskii and Bose Hubbard theories It is thereby shown that the dynamics of Bose Einstein condensates is far more intricate than one would anticipate based on these approximations A special conceptual innovation in this thesis are optimal lattice models It is shown how all quantum lattice models of condensed matter physics that are based on Wannier functions e g the Bose Fermi Hubbard model can be optimized variationally This leads to exciting new physics **High Performance Computing in Science and Engineering ' 18** Wolfgang E. Nagel,Dietmar H. Kröner,Michael M. Resch,2019-06-07 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 2018 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 Tunneling Dynamics in Open Ultracold Bosonic Systems Axel U. J. Lode,2014-07-22 This thesis addresses the intriguing topic of the quantum tunnelling of many body systems such as Bose Einstein condensates Despite the enormous amount of work on the tunneling of a single particle through a barrier we know very little about how a system made of several or of many particles tunnels through a barrier to open space The present work uses numerically exact solutions of the time dependent many boson Schr dinger equation to explore the rich physics of the tunneling to open space process in ultracold bosonic particles that are initially prepared as a Bose Einstein condensate and subsequently allowed to tunnel through a barrier to open space The many body process is built up from concurrently occurring single particle processes that are characterized by different momenta These momenta correspond to the chemical potentials of systems with decreasing particle number The many boson process exhibits exciting collective phenomena the escaping particles fragment and lose their coherence with the source and among each other whilst correlations build up within the system The detailed understanding of the many body process is used to devise and test a scheme to control the final state momentum distributions and even the correlation dynamics of the

tunneling process **Macroscopic Limits of Quantum Systems** Daniela Cadamuro,Maximilian Duell,Wojciech Dybalski,Sergio Simonella,2018-10-26 Based on the workshop of the same name this proceedings volume presents selected research investigating the mathematics of collective phenomena emerging from quantum theory at observable scales Featured contributions from leading scientists provide a thorough overview of current and active research Methods from functional analysis spectral theory renormalization group theory and variational calculus are used to prove rigorous results in quantum physics Topics include superconductivity and mathematical aspects of the BCS theory the Jellium model and Bose Einstein condensation among others Presenting technical details in an accessible way this book serves as an introduction to research for advanced graduate students and is suitable for specialists in mathematical physics The workshop Macroscopic Limits of Quantum Systems was held over three days in the spring of 2017 at the Technical University of Munich The conference celebrated the achievementsof Herbert Spohn and his reception of the Max Planck Medal *High Performance Computing in Science and Engineering '19* Wolfgang E. Nagel,Dietmar H. Kröner,Michael M. Resch,2021-05-29 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 2019 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

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 Schr dinger 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

High Performance Computing in Science and Engineering´16 Wolfgang E. Nagel,Dietmar H. Kröner,Michael M. Resch,2017-01-11 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 2016 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 *Schrödinger Equations in Nonlinear Systems* Wu-Ming Liu,Emmanuel Kengne,2019-03-20 This book explores the diverse types of Schr dinger equations that appear in nonlinear systems in general with a specific focus on nonlinear transmission networks and Bose Einstein Condensates In the context of nonlinear transmission networks it employs various methods to rigorously model the phenomena of modulated matter wave propagation in the network leading to nonlinear Schr dinger NLS equations Modeling these phenomena is largely based on the reductive perturbation method and the derived NLS equations are then used to methodically investigate the dynamics of matter wave solitons in the network In the context of Bose Einstein condensates BECs the book analyzes the dynamical properties of NLS equations with the external potential of different types which govern the dynamics of modulated matter waves in BECs with either two body interactions or both two and three body interatomic interactions It also discusses the method of investigating both the well posedness and the ill posedness of the boundary problem for linear and nonlinear Schr dinger equations and presents new results Using simple examples it then illustrates the results on the boundary problems For both nonlinear transmission networks and Bose Einstein condensates the results obtained are supplemented by numerical calculations and presented as figures New Trends in Mathematical Physics Vladas Sidoravicius,2009-08-31 This book collects selected papers written by invited and plenary speakers of the 15th International Congress on Mathematical Physics ICMP in the aftermath of the conference In extensive review articles and expository texts as well as advanced research articles the world leading experts present the state of the art in modern mathematical physics New mathematical concepts and ideas are introduced by prominent mathematicalphysicists and mathematicians covering among others the fields of Dynamical Systems Operator Algebras Partial Differential Equations Probability Theory Random Matrices Condensed Matter Physics Statistical Mechanics General Relativity Quantum Mechanics Quantum Field Theory Quantum Information and String Theory All together the contributions in this book give a panoramic view of the latest developments in mathematical physics They will help readers with a general interest in mathematical physics to get an update on the most recent developments in their field and give a broad overview on actual and future research directions in this fascinating and rapidly expanding area *Non-equilibrium Dynamics of One-Dimensional Bose Gases* Tim Langen,2015-05-22 This work presents a series of experiments with ultracold one dimensional Bose gases which establish said gases as an ideal model system for exploring a wide range of non equilibrium phenomena With the help of newly developed tools like full distributions functions and phase correlation functions the book reveals the emergence of thermal like transient states the light cone like emergence of thermal

correlations and the observation of generalized thermodynamic ensembles This points to a natural emergence of classical statistical properties from the microscopic unitary quantum evolution and lays the groundwork for a universal framework of non equilibrium physics The thesis investigates a central question that is highly contested in quantum physics how and to which extent does an isolated quantum many body system relax This question arises in many diverse areas of physics and many of the open problems appear at vastly different energy time and length scales ranging from high energy physics and cosmology to condensed matter and quantum information A key challenge in attempting to answer this question is the scarcity of quantum many body systems that are both well isolated from the environment and accessible for experimental study **High Performance Computing in Science and Engineering '13** Wolfgang E. Nagel,Dietmar H. Kröner,Michael M. Resch,2013-12-12 This book presents the state of the art in simulation on supercomputers Leading researchers present results achieved on systems of the High Performance Computing Center Stuttgart HLRS for the year 2013 The reports cover all fields of computational science and engineering ranging from CFD via computational physics and chemistry to computer science with a special emphasis on industrially relevant applications Presenting results 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 highest performance for production codes are of particular interest for both the scientist and the engineer The book comes with a wealth of coloured illustrations and tables of results **The Discrete Nonlinear Schrödinger Equation** Panayotis G. Kevrekidis,2009-07-07 This book constitutes the first effort to summarize a large volume of results obtained over the past 20 years in the context of the Discrete Nonlinear Schr dinger equation and the physical settings that it describes **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 **Dynamics: Models and Kinetic Methods for Non-equilibrium Many Body Systems** John Karkheck,2012-12-06 Recent years have witnessed a resurgence in the kinetic approach to dynamic many body problems Modern kinetic theory offers a unifying theoretical framework within which a great variety of seemingly unrelated systems can be explored in a coherent way Kinetic methods are currently being applied in such areas as the dynamics of colloidal suspensions granular material flow electron transport

in mesoscopic systems the calculation of Lyapunov exponents and other properties of classical many body systems characterised by chaotic behaviour The present work focuses on Brownian motion dynamical systems granular flows and quantum kinetic theory **High Performance Computing in Science and Engineering´15** Wolfgang E. Nagel,Dietmar H. Kröner,Michael M. Resch,2016-02-05 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 2015 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 **Conical Intersections in Physics** Jonas Larson,Erik Sjöqvist,Patrik Öhberg,2020-01-31 This concise book introduces and discusses the basic theory of conical intersections with applications in atomic molecular and condensed matter physics Conical intersections are linked to the energy of quantum systems They can occur in any physical system characterized by both slow and fast degrees of freedom such as e g the fast electrons and slow nuclei of a vibrating and rotating molecule and are important when studying the evolution of quantum systems controlled by classical parameters Furthermore they play a relevant role for understanding the topological properties of condensed matter systems Conical intersections are associated with many interesting features such as a breakdown of the Born Oppenheimer approximation and the appearance of nontrivial artificial gauge structures similar to the Aharonov Bohm effect Some applications presented in this book include Molecular Systems some molecules in nonlinear nuclear configurations undergo Jahn Teller distortions under which the molecule lower their symmetry if the electronic states belong to a degenerate irreducible representation of the molecular point group Solid State Physics different types of Berry phases associated with conical intersections can be used to detect topologically nontrivial states of matter such as topological insulators Weyl semi metals as well as Majorana fermions in superconductors Cold Atoms the motion of cold atoms in slowly varying inhomogeneous laser fields is governed by artificial gauge fields that arise when averaging over the fast internal degrees of freedom of the atoms These gauge fields can be Abelian or non Abelian which opens up the possibility to create analogs to various relativistic effects at low speed Interferometry with Interacting Bose-Einstein Condensates in a Double-Well Potential Tarik Berrada,2015-12-17 This thesis demonstrates a full Mach Zehnder interferometer with interacting Bose Einstein condensates confined on an atom chip It relies on the coherent manipulation of atoms trapped in a magnetic double well potential for which the author developed a novel type of beam splitter Particle wave duality enables the construction of interferometers for matter waves which complement optical interferometers in precision measurement devices both for

technological applications and fundamental tests This requires the development of atom optics analogues to beam splitters phase shifters and recombiners Particle interactions in the Bose Einstein condensate lead to a nonlinearity absent in photon optics This is exploited to generate a non classical state with reduced atom number fluctuations inside the interferometer This state is then used to study the interaction induced dephasing of the quantum superposition The resulting coherence times are found to be a factor of three longer than expected for coherent states highlighting the potential of entanglement as a resource for quantum enhanced metrology Many-Particle Entanglement, Einstein-Podolsky-Rosen Steering and Bell Correlations in Bose-Einstein Condensates Matteo Fadel,2021-10-04 This book presents theoretical methods and experimental results on the study of multipartite quantum correlations in spin squeezed Bose Einstein condensates Nonclassical correlations in many body system s are particularly interesting for both fundamental research and practical applications For their investigation ultracold atomic ensembles offer an ideal platform due to their high controllability and long coherence times In particular we introduce criteria for detecting and characterizing multipartite entanglement Einstein Podolsky Rosen steering and Bell correlations Moreover we present the experimental observation of such correlations in systems of about 600 atoms *Applications of Quantum Dynamics in Chemistry* Fabien Gatti,Benjamin Lasorne,Hans-Dieter Meyer,André Nauts,2017-09-05 This book explains the usage and application of Molecular Quantum Dynamics the methodology where both the electrons and the nuclei in a molecule are treated with quantum mechanical calculations This volume of Lecture Notes in Chemistry addresses graduate students and postdocs in the field of theoretical chemistry as well as postgraduate students researchers and teachers from neighboring fields such as quantum physics biochemistry biophysics or anyone else who is interested in this rising method in theoretical chemistry and who wants to gain experience in the opportunities it can offer It can also be useful for teachers interested in illustrative examples of time dependent quantum mechanics as animations of realistic wave packets have been designed to assist in visualization Assuming a basic knowledge about quantum mechanics the authors link their explanations to recent experimental investigations where Molecular Quantum Dynamics proved successful and necessary for the understanding of the experimental results Examples including reactive scattering photochemistry tunneling femto and attosecond chemistry and spectroscopy cold chemistry or crossed beam experiments illustrate the power of the method The book restricts complicated formalism to the necessary and in a self contained and clearly explained way offering the reader an introduction to and instructions for practical exercises Continuative explanation and math are optionally supplemented for the interested reader The reader learns how to apply example simulations with the MCTDH program package Multi Configuration Time Dependent Hartree calculations Readers can thus obtain the tools to run their own simulations and apply them to their problems Selected scripts and program code from the examples are made available as supplementary material This book bridges the gap between the existing textbooks on fundamental theoretical chemistry and research monographs focusing on sophisticated applications It is a must read for

everyone who wants to gain a sound understanding of Molecular Quantum Dynamics simulations and to obtain basic experience in running their own simulations **Distributed Computer and Communication Networks** Vladimir M. Vishnevskiy,Konstantin E. Samouylov,Dmitry V. Kozyrev,2019-12-18 This book constitutes the refereed proceedings of the 22nd International Conference on Distributed and Computer and Communication Networks DCCN 2019 held in Moscow Russia in September 2019 The 50 full papers and 2 short papers were carefully reviewed and selected from 174 submissions The papers cover the following topics Computer and Communication Networks and Technologies Analytical Modeling of Distributed Systems and Distributed Systems Applications

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