Quantum Many-Body Systems in One Dimension

Zachary N. C. Ha

Quantum Manybody Systems In One Dimension

Ivan Cherednik,Peter Forrester,Denis Uglov

Quantum Manybody Systems In One Dimension:

   Quantum Many-body Systems In One Dimension Zachary N C Ha,1996-09-13 The main theme of the book is the intimate connection between the two families of exactly solvable models the inverse square exchange ISE and the nearest neighbor exchange NNE models The latter are better known as the Bethe Ansatz solvable models and include the Heisenberg spin chain t J models and Hubbard models The former the Calogero Sutherland family of models are simple to solve and contain essentially the same physics as the NNE family The author introduces and discusses current topics such as the Luttinger liquid concept fractional statistics and spin charge separation in the context of the explicit models   Beautiful Models: 70 Years Of Exactly Solved Quantum Many-body Problems Bill Sutherland,2004-06-21 This invaluable book provides a broad introduction to the fascinating and beautiful subject of many body quantum systems that can be solved exactly The subject began with Bethe s famous solution of the one dimensional Heisenberg magnet more than 70 years ago soon after the invention of quantum mechanics Since then the diversity and scope of such systems have been steadily growing Beautiful Models is self contained and unified in presentation It may be used as an advanced textbook by graduate students and even ambitious undergraduates in physics It is also suitable for the non experts in physics who wish to have an overview of some of the classic and fundamental models in the subject The explanations in the book are detailed enough to capture the interest of the curious reader and complete enough to provide the necessary background material needed to go further into the subject and explore the research literature   **Probing Correlated Quantum Many-Body Systems at the Single-Particle Level** Manuel Endres,2014-04-26 How much knowledge can we gain about a physical system and to what degree can we control it In quantum optical systems such as ion traps or neutral atoms in cavities single particles and their correlations can now be probed in a way that is fundamentally limited only by the laws of quantum mechanics In contrast quantum many body systems pose entirely new challenges due to the enormous number of microscopic parameters and their small length and short time scales This thesis describes a new approach to probing quantum many body systems at the level of individual particles Using high resolution single particle resolved imaging and manipulation of strongly correlated atoms single atoms can be detected and manipulated due to the large length and time scales and the precise control of internal degrees of freedom Such techniques lay stepping stones for the experimental exploration of new quantum many body phenomena and applications thereof such as quantum simulation and quantum information through the design of systems at the microscopic scale and the measurement of previously inaccessible observables   *Exactly Solvable Models In Many-body Theory* Norman H March,Giuseppe G N Angilella,2016-05-27 The book reviews several theoretical mostly exactly solvable models for selected systems in condensed states of matter including the solid liquid and disordered states and for systems of few or many bodies both with boson fermion or anyon statistics Some attention is devoted to models for quantum liquids including superconductors and superfluids Open problems in relativistic fields and quantum gravity are also briefly reviewed

The book ranges almost comprehensively but concisely across several fields of theoretical physics of matter at various degrees of correlation and at different energy scales with relevance to molecular solid state and liquid state physics as well as to phase transitions particularly for quantum liquids Mostly exactly solvable models are presented with attention also to their numerical approximation and of course to their relevance for experiments **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 **Numerical Simulations of Quantum Many-body Systems with Applications to Superfluid-insulator and Metal-insulator Transitions** Parhat Niyaz,1993 *Nonequilibrium Statistical Mechanics in One Dimension* Vladimir Privman,1997-02-20 Self contained and up to date guide to one dimensional reactions dynamics diffusion and adsorption **Mathematical Results In Quantum Physics - Proceedings Of The Qmath11 (With Dvd-rom)** Pavel Exner,2011-05-26 The volume collects papers from talks given at QMath11 Mathematical Results in Quantum Physics which was held in Hradec Kr lov September 2010 These papers bring new and interesting results in quantum mechanics and information quantum field theory random systems quantum chaos as well as in the physics of social systems Part of the contribution is dedicated to Ari Laptev on the occasion of his 60th birthday in recognition of his mathematical results and his service to the community The QMath conference series has played an important role in mathematical physics for more than two decades typically attracting many of the best results achieved in the last three year period and the meeting in Hradec Kr lov was no exception Many-body Problem, The: An Encyclopedia Of Exactly Solved Models In One Dimension (3rd Printing With Revisions And Corrections) Daniel C Mattis,1993-03-15 This book differs from its predecessor Lieb Mattis Mathematical Physics in One Dimension in a number of important ways Classic discoveries which once had to be omitted owing to lack of space such as the seminal paper by Fermi Pasta and Ulam on lack of ergodicity of the linear chain or Bethe s original paper on the Bethe ansatz can now be incorporated Many applications which did not even exist in 1966 some of which were originally spawned by the publication of

Lieb Mattis are newly included Among these this new book contains critical surveys of a number of important developments the exact solution of the Hubbard model the concept of spinons the Haldane gap in magnetic spin one chains bosonization and fermionization solitions and the approach to thermodynamic equilibrium quantum statistical mechanics localization of normal modes and eigenstates in disordered chains and a number of other contemporary concerns **Recent Progress In Many-body Theories - Proceedings Of The 13th International Conference** Horacio Cataldo,Susana Hernandez,2006-09-07 This conference series is now firmly established as one of the premier series of international meetings in the field of many body physics The current volume maintains the tradition of covering the entire spectrum of theoretical tools developed to tackle important and current quantum many body problems It aims to foster the exchange of ideas and techniques among physicists working in diverse subfields of physics such as nuclear and sub nuclear physics astrophysics atomic and molecular physics quantum chemistry complex systems quantum field theory strongly correlated electronic systems magnetism quantum fluids and condensed matter physics The highlights of this book include state of the art contributions to the understanding of supersolid helium BEC BCS crossover fermionic BEC quantum phase transitions computing simulations as well as the latest results on the more traditional topics of liquid helium droplets nuclear and electronic systems This volume demonstrates the vitality and the fundamental importance of many body theories techniques and applications in understanding diverse and novel phenomena at the cutting edge of physics It contains most of the invited talks plus a selection of excellent poster presentations **Recent Progress In Many-body Theories - Proceedings Of The 9th International Conference** David Neilson,Raymond F Bishop,1998-10-20 The Lake Louise Winter Institute is held annually to explore recent trends in physics The proceedings contain pedagogical and review lectures by invited experts and contributed presentations by participants Finite Size Effects In Correlated Electron Models: Exact Results Andrei Zvyagin,2005-05-25 The book presents exact results for one dimensional models including quantum spin models of strongly correlated electrons in a comprehensive and concise manner It incorporates important results related to magnetic and hybridization impurities in electron hosts and contains exact original results for disordered ensembles of impurities in interacting systems These models describe a number of real low dimensional electron systems that are widely used in nanophysics and microelectronics An important method of modern theoretical and mathematical physics the Bethe s Ansatz BA is introduced to readers This book presents different forms of the BA for periodic and open quantum chains Other forms dealt with are the co ordinate BA thermodynamic BA nested BA algebraic BA and thermal BA The book also contains a compact description of other theoretical methods such as scaling conformal field theory Abelian and non Abelian bosonizations The book is suitable for use as a textbook by graduate students in non perturbative methods of low dimensional quantum many body theory It will also be a useful source of reference for qualified physicists as well as non experts in low dimensional physics as it explores material necessary for further studies in the fields of exactly solvable quantum models and

low dimensional correlated electron systems **Mathematical Results in Quantum Physics** Pavel Exner,2011 The volume collects papers from talks given at QMath11 Mathematical Results in Quantum Physics which was held in Hradec Kr lov September 2010 These papers bring new and interesting results in quantum mechanics and information quantum field theory random systems quantum chaos as well as in the physics of social systems Part of the contribution is dedicated to Ari Laptev on the occasion of his 60th birthday in recognition of his mathematical results and his service to the community The QMath conference series has played an important role in mathematical physics for more than two decades typically attracting many of the best results achieved in the last three year period and the meeting in Hradec Kr lov was no exception

Quantum Many-body Problems and Representation Theory Ivan Cherednik,Peter Forrester,Denis Uglov,1998

Nuclear Science Abstracts ,1976 New Trends in Integrability and Partial Solvability A.B. Shabat,A. González-López,M. Mañas,L. Martínez Alonso,M.A. Rodríguez,2012-12-06 Proceedings of the NATO Advanced Research Workshop held in Cadiz Spain from 12 to 16 June 2002 Chaotic, Fractional, and Complex Dynamics: New Insights and Perspectives Mark Edelman,Elbert E. N. Macau,Miguel A. F. Sanjuan,2017-11-17 The book presents nonlinear chaotic and fractional dynamics complex systems and networks together with cutting edge research on related topics The fifteen chapters written by leading scientists working in the areas of nonlinear chaotic and fractional dynamics as well as complex systems and networks offer an extensive overview of cutting edge research on a range of topics including fundamental and applied research These include but are not limited to aspects of synchronization in complex dynamical systems universality features in systems with specific fractional dynamics and chaotic scattering As such the book provides an excellent and timely snapshot of the current state of research blending the insights and experiences of many prominent researchers

Large-Scale Scientific Computing Ivan Lirkov,2006-02-14 This book constitutes the thoroughly refereed post proceedings of the 5th International Conference on Large Scale Scientific Computations LSSC 2005 held in Sozopol Bulgaria in June 2005 The 75 revised full papers presented together with five invited papers were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections **Non-Equilibrium Dynamics Beyond Dephasing** Bernhard Rauer,2019-05-04 Cold atomic gases trapped and manipulated on atom chips allow the realization of seminal one dimensional 1d quantum many body problems in an isolated and well controlled environment In this context this thesis presents an extensive experimental study of non equilibrium dynamics in 1d Bose gases with a focus on processes that go beyond simple dephasing dynamics It reports on the observation of recurrences of coherence in the post quench dynamics of a pair of 1d Bose gases and presents a detailed study of their decay The latter represents the first observation of phonon phonon scattering in these systems Furthermore the thesis investigates a novel cooling mechanism occurring in Bose gases subjected to a uniform loss of particles Together the results presented show a wide range of non equilibrium phenomena occurring in 1d Bose gases and establish them as an ideal testbed for many body physics beyond equilibrium

Applications of Random Matrices in Physics Édouard Brezin,2006-03-03 Proceedings of the NATO Advanced Study Institute on Applications of Random Matrices in Physics Les Houches France 6 25 June 2004

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