

BEAUTIFUL MODELS

70 Years of Exactly Solved
Quantum Many-Body Problems

BILL SUTHERLAND

Beautiful Models 70 Years Of Exactly Solved Quantum Many Body Problems

Gleb Arutyunov



Beautiful Models 70 Years Of Exactly Solved Quantum Many Body Problems:

Beautiful Models Bill Sutherland, 2004 Key Features An original book not just a collection of reprints by an expert and in many cases the originator in the field Although most of the important results are derived the book also discusses in depth the motivation and meaning of these results The intrinsic beauty of these models and their solution is emphasized throughout the text in part by unique full color figures Readership Advanced undergraduates and graduate students in physics non experts interested in exactly solved quantum many body systems **Beautiful Models** Bill Sutherland (Ph. D.), 2004

Beautiful Models Bill Sutherland, 2007 **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 **Introduction to the Statistical Physics of Integrable Many-body Systems** Ladislav Šamaj, Zoltán

Bajnok, 2013-05-16 Including topics not traditionally covered such as 1+1 dimensional QFT this book considers a wide range of models and their applications *Off-Diagonal Bethe Ansatz for Exactly Solvable Models* Yupeng Wang, Wen-Li

Yang, Junpeng Cao, Kangjie Shi, 2015-04-21 This book serves as an introduction of the off diagonal Bethe Ansatz method an analytic theory for the eigenvalue problem of quantum integrable models It also presents some fundamental knowledge about quantum integrability and the algebraic Bethe Ansatz method Based on the intrinsic properties of R matrix and K matrices the book introduces a systematic method to construct operator identities of transfer matrix These identities allow one to establish the inhomogeneous TQ relation formalism to obtain Bethe Ansatz equations and to retrieve corresponding eigenstates Several longstanding models can thus be solved via this method since the lack of obvious reference states is made up Both the exact results and the off diagonal Bethe Ansatz method itself may have important applications in the fields of quantum field theory low dimensional condensed matter physics statistical physics and cold atom systems **Physics**

and Mathematics of Quantum Many-Body Systems Hal Tasaki, 2020-05-07 This book is a self contained advanced textbook on the mathematical physical aspects of quantum many body systems which begins with a pedagogical presentation of the necessary background information before moving on to subjects of active research including topological phases of matter The book explores in detail selected topics in quantum spin systems and lattice electron systems namely long range

order and spontaneous symmetry breaking in the antiferromagnetic Heisenberg model in two or higher dimensions Part I Haldane phenomena in antiferromagnetic quantum spin chains and related topics in topological phases of quantum matter Part II and the origin of magnetism in various versions of the Hubbard model Part III Each of these topics represents certain nontrivial phenomena or features that are invariably encountered in a variety of quantum many body systems including quantum field theory condensed matter systems cold atoms and artificial quantum systems designed for future quantum computers The book's main focus is on universal properties of quantum many body systems The book includes roughly 50 problems with detailed solutions The reader only requires elementary linear algebra and calculus to comprehend the material and work through the problems Given its scope and format the book is suitable both for self study and as a textbook for graduate or advanced undergraduate classes

Models of Quantum Matter Hans-Peter Eckle, 2019 The book introduces tools with which models of quantum matter are built The most important technique the Bethe ansatz is developed in detail to perform exact calculations of the physical properties of quantum matter

Elements of Classical and Quantum Integrable Systems Gleb Arutyunov, 2019-07-23 Integrable models have a fascinating history with many important discoveries that dates back to the famous Kepler problem of planetary motion Nowadays it is well recognised that integrable systems play a ubiquitous role in many research areas ranging from quantum field theory string theory solvable models of statistical mechanics black hole physics quantum chaos and the AdS CFT correspondence to pure mathematics such as representation theory harmonic analysis random matrix theory and complex geometry Starting with the Liouville theorem and finite dimensional integrable models this book covers the basic concepts of integrability including elements of the modern geometric approach based on Poisson reduction classical and quantum factorised scattering and various incarnations of the Bethe Ansatz Applications of integrability methods are illustrated in vast detail on the concrete examples of the Calogero Moser Sutherland and Ruijsenaars Schneider models the Heisenberg spin chain and the one dimensional Bose gas interacting via a delta function potential This book has intermediate and advanced topics with details to make them clearly comprehensible

Tensor Network States and Effective Particles for Low-Dimensional Quantum Spin Systems Laurens Vanderstraeten, 2017-08-10 This thesis develops new techniques for simulating the low energy behaviour of quantum spin systems in one and two dimensions Combining these developments it subsequently uses the formalism of tensor network states to derive an effective particle description for one and two dimensional spin systems that exhibit strong quantum correlations These techniques arise from the combination of two themes in many particle physics i the concept of quasiparticles as the effective low energy degrees of freedom in a condensed matter system and ii entanglement as the characteristic feature for describing quantum phases of matter Whereas the former gave rise to the use of effective field theories for understanding many particle systems the latter led to the development of tensor network states as a description of the entanglement distribution in quantum low energy states

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