Quantum Monte Carlo Methods in Condensed Matter Physics

Editor

M. Suzuki



Monte Carlo Method In Condensed Matter Physics

David P. Landau, Kurt Binder

Monte Carlo Method In Condensed Matter Physics:

Ouantum Monte Carlo Methods In Condensed Matter Physics Masuo Suzuki,1993-12-30 This book reviews recent developments of quantum Monte Carlo methods and some remarkable applications to interacting quantum spin systems and strongly correlated electron systems It contains twenty two papers by thirty authors Some of the features are as follows The first paper gives the foundations of the standard quantum Monte Carlo method including some recent results on higher order decompositions of exponential operators and ordered exponentials. The second paper presents a general review of guantum Monte Carlo methods used in the present book One of the most challenging problems in the field of quantum Monte Carlo techniques the negative sign problem is also discussed and new methods proposed to partially overcome it In addition low dimensional quantum spin systems are studied Some interesting applications of quantum Monte Carlo methods to fermion systems are also presented to investigate the role of strong correlations and fluctuations of electrons and to clarify the mechanism of high Tc superconductivity Not only thermal properties but also quantum mechanical ground state properties have been studied by the projection technique using auxiliary fields Further the Haldane gap is confirmed by numerical calculations Active researchers in the forefront of condensed matter physics as well as young graduate students who want to start learning the quantum Monte Carlo methods will find this book useful A Guide to Monte Carlo Simulations in Statistical Physics David P. Landau, Kurt Binder, 2000-08-17 This book describes all aspects of Monte Carlo simulation of complex physical systems encountered in condensed matter physics and statistical mechanics as well as in related fields such as polymer science and lattice gauge theory. The authors give a succinct overview of simple sampling methods and develop the importance sampling method In addition they introduce quantum Monte Carlo methods aspects of simulations of growth phenomena and other systems far from equilibrium and the Monte Carlo Renormalization Group approach to critical phenomena The book includes many applications examples and current references and exercises to help the reader The Monte Carlo Method in Condensed Matter Physics Kurt Binder, 2012-12-06 The Monte Carlo method is now widely used and commonly accepted as an important and useful tool in solid state physics and related fields It is broadly recognized that the technique of computer simulation is complementary to both analytical theory and experiment and can significantly contribute to ad vancing the understanding of various scientific problems Widespread applications of the Monte Carlo method to various fields of the statistical mechanics of condensed matter physics have already been reviewed in two previously published books namely Monte Carlo Methods in Statistical Physics Topics Curro Phys Vol 7 1st edn 1979 2ndedn 1986 and Applications of the Monte Carlo Method in Statistical Physics Topics Curro Phys Vol 36 1st edn 1984 2nd edn 1987 Meanwhile the field has continued its rapid growth and expansion and applications to new fields have appeared that were not treated at all in the above two books e g studies of irreversible growth phenomena cellular automata interfaces and quantum problems on lattices Also new methodic aspects have emerged such as aspects of efficient use of vector com puters or parallel computers

more efficient analysis of simulated systems con figurations and methods to reduce critical slowing down at i hase transitions Taken together with the extensive activity in certain traditional areas of research simulation of classical and quantum fluids of macromolecular materials of spin glasses and quadrupolar glasses etc **Monte Carlo Simulation in Statistical** Physics Kurt Binder, Dieter W. Heermann, 2010-08-17 Monte Carlo Simulation in Statistical Physics deals with the computer simulation of many body systems in condensed matter physics and related fields of physics chemistry and beyond to traffic flows stock market fluctuations etc Using random numbers generated by a computer probability distributions are calculated allowing the estimation of the thermodynamic properties of various systems This book describes the theoretical background to several variants of these Monte Carlo methods and gives a systematic presentation from which newcomers can learn to perform such simulations and to analyze their results The fifth edition covers Classical as well as Quantum Monte Carlo methods Furthermore a new chapter on the sampling of free energy landscapes has been added To help students in their work a special web server has been installed to host programs and discussion groups http wwwcp tphys uni heidelberg de Prof Binder was the winner of the Berni J Alder CECAM Award for Computational Physics 2001 as well as the Boltzmann The Monte Carlo Method in Condensed Matter Physics Kurt Binder, 2014-01-15 Medal in 2007 Carlo Simulations in Statistical Physics David P. Landau, Kurt Binder, 2009-09-10 Dealing with all aspects of Monte Carlo simulation of complex physical systems encountered in condensed matter physics and statistical mechanics this book provides an introduction to computer simulations in physics This edition now contains material describing powerful new algorithms that have appeared since the previous edition was published and highlights recent technical advances and key applications that these algorithms now make possible Updates also include several new sections and a chapter on the use of Monte Carlo simulations of biological molecules Throughout the book there are many applications examples recipes case studies and exercises to help the reader understand the material It is ideal for graduate students and researchers both in academia and industry who want to learn techniques that have become a third tool of physical science complementing experiment and analytical theory A Guide to Monte Carlo Simulations in Statistical Physics David Landau, Kurt Binder, 2021-07-29 Dealing with all aspects of Monte Carlo simulation of complex physical systems encountered in condensed matter physics and statistical mechanics this book provides an introduction to computer simulations in physics The 5th edition contains extensive new material describing numerous powerful algorithms and methods that represent recent developments in the field New topics such as active matter and machine learning are also introduced Throughout there are many applications examples recipes case studies and exercises to help the reader fully comprehend the material This book is ideal for graduate students and researchers both in academia and industry who want to learn techniques that have become a third tool of physical science complementing experiment and analytical theory Ouantum Monte Carlo Methods in Condensed Matter Physics Masuo Suzuki, 1993 This book reviews recent developments of quantum Monte Carlo methods and

some remarkable applications to interacting quantum spin systems and strongly correlated electron systems It contains twenty two papers by thirty authors Some of the features are as follows The first paper gives the foundations of the standard quantum Monte Carlo method including some recent results on higher order decompositions of exponential operators and ordered exponentials The second paper presents a general review of quantum Monte Carlo methods used in the present book One of the most challenging problems in the field of quantum Monte Carlo techniques the negative sign problem is also discussed and new methods proposed to partially overcome it In addition low dimensional quantum spin systems are studied Some interesting applications of guantum Monte Carlo methods to fermion systems are also presented to investigate the role of strong correlations and fluctuations of electrons and to clarify the mechanism of high c superconductivity Not only thermal properties but also quantum mechanical ground state properties have been studied by the projection technique using auxiliary fields Further the Haldane gap is confirmed by numerical calculations Active researchers in the forefront of condensed matter physics as well as young graduate students who want to start learning the quantum Monte Carlo methods will find this book useful Quantum Monte Carlo Approaches for Correlated Systems Federico Becca, Sandro Sorella, 2017-11-30 Over the past several decades computational approaches to studying strongly interacting systems have become increasingly varied and sophisticated This book provides a comprehensive introduction to state of the art quantum Monte Carlo techniques relevant for applications in correlated systems Providing a clear overview of variational wave functions and featuring a detailed presentation of stochastic samplings including Markov chains and Langevin dynamics which are developed into a discussion of Monte Carlo methods The variational technique is described from foundations to a detailed description of its algorithms Further topics discussed include optimisation techniques real time dynamics and projection methods including Green's function reptation and auxiliary field Monte Carlo from basic definitions to advanced algorithms for efficient codes and the book concludes with recent developments on the continuum space Quantum Monte Carlo Approaches for Correlated Systems provides an extensive reference for students and researchers working in condensed matter theory or those interested in advanced numerical methods for electronic simulation The Monte Carlo Method and Thermal Ratchets in Condensed Matter Physics Choongseop Lee, 2000

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