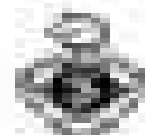


Naoto Nagaosa

Quantum Field Theory in Strongly Correlated Electronic Systems

Translated by Stefan Hoyer
With 18 Figures



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Quantum Field Theory In Strongly Correlated Electronic Systems

Gaetano Scarpetta, Canio Noce, Alfonso Romano



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On Field Theory In Condensed Matter Physics Christopher Mudry, 2014-02-28 The aim of this book is to introduce a graduate student to selected concepts in condensed matter physics for which the language of field theory is ideally suited The examples considered in this book are those of superfluidity for weakly interacting bosons collinear magnetism and superconductivity Quantum phase transitions are also treated in the context of quantum dissipative junctions and interacting fermions constrained to one dimensional position space The style of presentation is sufficiently detailed and comprehensive that it only presumes familiarity with undergraduate physics

Many-Body Problems and Quantum Field Theory

Philippe Andre Martin, Francois Rothen, 2013-04-17 Many Body Problems and Quantum Field Theory introduces the concepts and methods of the topics on a level suitable for graduate students and researchers The formalism is developed in close conjunction with the description of a number of physical systems cohesion and dielectric properties of the electron gas superconductivity superfluidity nuclear matter and nucleon pairing matter and radiation interaction of fields by particle exchange and mass generation Emphasis is placed on analogies between the various systems rather than on advanced or specialized aspects with the purpose of illustrating common ideas within different domains of physics Starting from a basic knowledge of quantum mechanics and classical electromagnetism the exposition is self contained and explicitly details all steps of the derivations The new edition features a substantially new treatment of nucleon pairing

Quantum Field

Theory in Condensed Matter Physics Naoto Nagaosa, 1999-09-20 This is an approachable introduction to the important topics and recent developments in the field of condensed matter physics First the general language of quantum field theory is developed in a way appropriate for dealing with systems having a large number of degrees of freedom This paves the way for a description of the basic processes in such systems Applications include various aspects of superfluidity and superconductivity as well as a detailed description of the fractional quantum Hall liquid

Superconductivity And

Strongly Correlated Electron Systems Gaetano Scarpetta, Canio Noce, Alfonso Romano, 1994-10-25 This volume contains invited and contributed papers of eminent scientists who are deeply involved in the field of strongly correlated electron systems and high Tc superconductivity The topics of the papers include the Hubbard model the t J model the polaronic model for high Tc superconductivity Fermi liquid and non Fermi liquid theory and heavy fermion systems

Open Problems in

Strongly Correlated Electron Systems Janez Bonca, Peter Prelovsek, Anton Ramsak, Sarben Sarkar, 2012-12-06 Proceedings of the NATO Advanced Research Workshop Bled Slovenia 26 30 April 2000

Aspects of Ergodic, Qualitative and

Statistical Theory of Motion Giovanni Gallavotti, Federico Bonetto, Guido Gentile, 2013-03-09 Intended for beginners in ergodic theory this book addresses students as well as researchers in mathematical physics The main novelty is the systematic treatment of characteristic problems in ergodic theory by a unified method in terms of convergent power series and renormalization group methods in particular Basic concepts of ergodicity like Gibbs states are developed and applied to e g Asonov systems or KAM Theory Many examples illustrate the ideas and in addition a substantial number of interesting

topics are treated in the form of guided problems *Statistical Methods in Quantum Optics 1* Howard J.

Carmichael, 2013-04-17 As a graduate student working in quantum optics I encountered the question that might be taken as the theme of this book The question definitely arose at that time though it was not yet very clearly defined there was simply some deep irritation caused by the work I was doing something quite fundamental I did not understand Of course so many things are not understood when one is a graduate student However my nagging question was not a technical issue not merely a mathematical concept that was difficult to grasp It was a sense that certain elementary notions that are accepted as starting points for work in quantum optics somehow had no fundamental foundation no identifiable root My inclination was to mine physics vertically and here was a subject whose tunnels were dug horizontally There were branches certainly going up and going down Nonetheless something major in the downwards direction was missing at least in my understanding no doubt others understood the connections downwards very well In retrospect I can identify the irritation Quantum optics deals primarily with dynamics quantum dynamics and in doing so makes extensive use of words like quantum fluctuations and quantum noise The words seem harmless enough Surely the ideas behind them are quite clear after all quantum mechanics is a statistical theory and in its dynamical aspects it is therefore a theory of fluctuations But there was my problem Nothing in Schrodinger's equation fluctuates **Statistical Methods in Quantum Optics 2** Howard J. Carmichael, 2009-04-25

Statistical Methods in Quantum Optics 2 Non Classical Fields continues the development of the methods used in quantum optics to treat open quantum systems and their fluctuations Its early chapters build upon the phase space methods introduced in the first volume *Statistical Methods in Quantum Optics 1* Matter Equations and Fokker Planck Equations the difficulties these methods face in treating non classical light are exposed where the regime of large fluctuations failure of the system size expansion is shown to be particularly problematic Cavity QED is adopted as a natural vehicle for extending quantum noise theory into this regime In response to the issues raised the theory of quantum trajectories is presented as a universal approach to the treatment of fluctuations in open quantum systems This book presents its material at a level suitable for beginning researchers or students in an advanced course in quantum optics or a course in quantum mechanics or statistical physics that deals with open quantum systems The text is complemented by exercises and interspersed notes that point the reader to side issues or a deeper exploration of the material presented Quantum Probability and Spectral

Analysis of Graphs Akihito Hora, Nobuaki Obata, 2007-07-05 It is a great pleasure for me that the new Springer Quantum Probability Programme is opened by the present monograph of Akihito Hora and Nobuaki Obata In fact this book epitomizes several distinctive features of contemporary quantum probability First of all the use of specific quantum probabilistic techniques to bring original and quite non trivial contributions to problems with an old history and on which a huge literature exists both independent of quantum probability Second but not less important the ability to create several bridges among different branches of mathematics apparently far from one another such as the theory of orthogonal polynomials and graph theory

Nevanlinna's theory and the theory of representations of the symmetric group. Moreover, the main topic of the present monograph, the asymptotic behaviour of large graphs, is acquiring a growing importance in a multiplicity of applications to several different fields from solid state physics to complex networks from biology to telecommunications and operation research to combinatorial optimization. This creates a potential audience for the present book which goes far beyond the mathematicians and includes physicists, engineers of several different branches as well as biologists and economists. From the mathematical point of view, the use of sophisticated analytical tools to draw conclusions on discrete structures such as graphs is particularly appealing. The use of analysis, the science of the continuum, to discover non-trivial properties of discrete structures has an established tradition in number theory but in graph theory it constitutes a relatively recent trend and there are few doubts that this trend will expand to an extent comparable to what we find in the theory of numbers. Two main ideas of quantum probability form the unifying framework of the present book.

1. The quantum decomposition of a classical random variable.

Geometric Optics on Phase Space Kurt Bernardo Wolf, 2004-07-21. Symplectic geometry, well known as the basic structure of Hamiltonian mechanics, is also the foundation of optics. In fact, optical systems, geometric or wave, have an even richer symmetry structure than mechanical ones, classical or quantum. The symmetries underlying the geometric model of light are based on the symplectic group. *Geometric Optics on Phase Space* develops both geometric optics and group theory from first principles in their Hamiltonian formulation on phase space. This treatise provides the mathematical background and also collects a host of useful methods of practical importance, particularly the fractional Fourier transform currently used for image processing. The reader will appreciate the beautiful similarities between Hamilton's mechanics and this approach to optics. The appendices link the geometry thus introduced to wave optics through Lie methods. The book addresses researchers and graduate students.

The Statistical Mechanics of Financial Markets Johannes Voit, 2013-04-17. Provides an excellent introduction for physicists interested in the statistical properties of financial markets. Basic financial terms such as shorts, limit orders, puts, calls, and other terms are clearly defined, an excellent starting point for the interested physicist.

PHYSICS TODAY. This introductory treatment describes parallels between statistical physics and finance, both long established and new research results on capital markets. Forming the core of Voit's treatment are the concepts of random walks, scaling of data, and risk control. Voit discusses the underlying assumptions using empirical financial data and analogies to physical models such as fluid flows and turbulence. He formulates theories of derivative pricing and risk control and shows how computer simulations of markets provide insights into price fluctuations and how crashes are modelled in ways analogous to phase transitions. This corrected edition has been updated with several new and significant developments, e.g. the dynamics of volatility smiles and implied volatility surfaces, path integral approaches to option pricing, a new simulation scheme for options, multifractals, the application of non-extensive statistical mechanics to financial markets, and the minority game.

The Frenkel-Kontorova Model Oleg M. Braun, Yuri S. Kivshar, 2013-03-14. Theoretical physics deals with physical

models The main requirements for a good physical model are simplicity and universality Universal models which can be applied to describe a variety of different phenomena are very rare in physics and therefore they are of key importance Such models attract the special attention of researchers as they can be used to describe underlying physical concepts in a simple way Such models appear again and again over the years and in various forms thus extending their applicability and educational value The simplest example of this kind is the model of a pendulum this universal model serves as a paradigm which encompasses basic features of various physical systems and appears in many problems of very different physical context Solids are usually described by complex models with many degrees of freedom and therefore the corresponding microscopic equations are rather complicated However over the years a relatively simple model known these days as the Pöschel-Kantorovich model has become one of the fundamental and universal tools of low dimensional nonlinear physics this model describes a chain of classical particles coupled to their neighbors and subjected to a periodic on site potential

High-Energy Particle Diffraction Vincenzo Barone, Enrico Predazzi, 2013-03-09 High energy diffraction has become a hot and fashionable subject in recent years due to the great interest triggered by the HERA and Tevatron data These data have helped to show the field from a different perspective paving the road to a hopefully more complete understanding than hitherto achieved The forthcoming data in the next few years from even higher energies LHC promise to sustain this interest for a long time We believe that it is therefore necessary to summarize the main developments which have marked the growth of high energy diffractive physics in recent decades and to assess the present state of the art This is the purpose of the present book which is especially aimed at the young researchers who are entering the field and want to get acquainted with the relevant results and the main theoretical techniques The new diffraction has started to bridge the gap between the hard and soft regimes of strong interactions A modern account of the subject in our opinion should reflect this situation covering both the traditional approaches to soft processes which are still alive and useful and the modern treatment of hard dynamics in the framework of perturbative QCD The book is divided into three parts The first part Chaps 1-3 contains some introductory material the systematics of diffractive processes some historical remarks the optical analogy the eikonal approximation of quantum mechanics and high energy kinematics In the second part Chaps

Scaling Limits in Statistical Mechanics and Microstructures in Continuum Mechanics Errico Presutti, 2008-11-01 Collective behavior in systems with many components blow ups with emergence of microstructures are proofs of the double continuum and atomistic nature of macroscopic systems an issue which has always intrigued scientists and philosophers Modern technologies have made the question more actual and concrete with recent remarkable progresses also from a mathematical point of view The book focuses on the links connecting statistical and continuum mechanics and starting from elementary introductions to both theories it leads to actual research themes Mathematical techniques and methods from probability calculus of variations and PDE are discussed at length

An Introduction to Riemann Surfaces, Algebraic Curves and

Moduli Spaces Martin Schlichenmaier, 2010-02-11 This book gives an introduction to modern geometry Starting from an elementary level the author develops deep geometrical concepts that play an important role in contemporary theoretical physics presenting various techniques and viewpoints along the way This second edition contains two additional more advanced geometric techniques the modern language and modern view of Algebraic Geometry and Mirror Symmetry

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