

QUANTUM SCALING

in Many-Body Systems

An Approach to Quantum Phase Transitions

Second Edition



MUCIO CONTINENTINO

Quantum Scaling In Many Body Systems

**Paul R. Berman, Ennio Arimondo, Chun
C. Lin**



Quantum Scaling In Many Body Systems:

Quantum Scaling in Many-Body Systems Mucio Continentino, 2017-04-17 Quantum phase transitions are strongly relevant in a number of fields ranging from condensed matter to cold atom physics and quantum field theory This book now in its second edition approaches the problem of quantum phase transitions from a new and unifying perspective Topics addressed include the concepts of scale and time invariance and their significance for quantum criticality as well as brand new chapters on superfluid and superconductor quantum critical points and quantum first order transitions The renormalisation group in real and momentum space is also established as the proper language to describe the behaviour of systems close to a quantum phase transition These phenomena introduce a number of theoretical challenges which are of major importance for driving new experiments Being strongly motivated and oriented towards understanding experimental results this is an excellent text for graduates as well as theorists experimentalists and those with an interest in quantum criticality *Quantum Scaling in*

Many-body Systems Mucio A. Continentino, 1994

Quantum Scaling in Many-body Systems Mucio Amado

Continentino, 2001

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experimental results this updated edition approaches the problem of quantum phase transitions from a new and unifying perspective **Brillouin-Wigner Methods for Many-Body Systems** Stephen Wilson, Ivan Hubac, 2009-12-01 Brillouin

Wigner Methods for Many Body Systems gives an introduction to many body methods in electronic structure theory for the graduate student and post doctoral researcher It provides researchers in many body physics and theoretical chemistry with an account of Brillouin Wigner methodology as it has been developed in recent years to handle the multireference correlation problem Moreover the frontiers of this research field are defined This volume is of interest to atomic and molecular physicists physical chemists and chemical physicists quantum chemists and condensed matter theorists computational chemists and applied mathematicians Entanglement Between Noncomplementary Parts of Many-Body Systems Hannu Christian

Wichterich, 2011-05-18 This thesis investigates the structure and behaviour of entanglement the purely quantum mechanical part of correlations in many body systems employing both numerical and analytical techniques at the interface of condensed matter theory and quantum information theory Entanglement can be seen as a precious resource which for example enables the noiseless and instant transmission of quantum information provided the communicating parties share a sufficient amount of it Furthermore measures of entanglement of a quantum mechanical state are perceived as useful probes of collective properties of many body systems For instance certain measures are capable of detecting and classifying ground state phases and particularly transition or critical points separating such phases Chapters 2 and 3 focus on entanglement in many body systems and its use as a potential resource for communication protocols They address the questions of how a substantial amount of entanglement can be established between distant subsystems and how efficiently this entanglement could be harvested by way of measurements The subsequent chapters 4 and 5 are devoted to universality of entanglement between

large collections of particles undergoing a quantum phase transition where despite the enormous complexity of these systems collective properties including entanglement no longer depend crucially on the microscopic details *Advances in Atomic, Molecular, and Optical Physics* Paul R. Berman,Ennio Arimondo,Chun C. Lin,2012-07-31 *Advances in Atomic Molecular and Optical Physics* publishes reviews of recent developments in a field which is in a state of rapid growth as new experimental and theoretical techniques are used on many old and new problems Topics covered include related applied areas such as atmospheric science astrophysics surface physics and laser physics Articles are written by distinguished experts and contain both relevant review material and detailed descriptions of important recent developments International experts Comprehensive articles New developments **Structural Dynamics with X-ray and Electron Scattering** Ksra Amini,Arnaud Rouzée,Marc J J Vrakking,2023-12-20 Since the early 20th century X ray and electron scattering has provided a powerful means by which the location of atoms can be identified in gas phase molecules and condensed matter with sub atomic spatial resolution Scattering techniques can also provide valuable observables of the fundamental properties of electrons in matter such as an electron s spin and its energy In recent years significant technological developments in both X ray and electron scattering have paved the way to time resolved analogues capable of capturing real time snapshots of transient structures undergoing a photochemical reaction *Structural Dynamics with X ray and Electron Scattering* is a two part book that firstly introduces the fundamental background to scattering theory and photochemical phenomena of interest The second part discusses the latest advances and research results from the application of ultrafast scattering techniques to imaging the structure and dynamics of gas phase molecules and condensed matter This book aims to provide a unifying platform for X ray and electron scattering *Electronic Structure* Richard M. Martin,2004-04-08 The study of the electronic structure of materials is at a momentous stage with the emergence of computational methods and theoretical approaches Many properties of materials can now be determined directly from the fundamental equations for the electrons providing insights into critical problems in physics chemistry and materials science This book provides a unified exposition of the basic theory and methods of electronic structure together with instructive examples of practical computational methods and real world applications Appropriate for both graduate students and practising scientists this book describes the approach most widely used today density functional theory with emphasis upon understanding the ideas practical methods and limitations Many references are provided to original papers pertinent reviews and widely available books Included in each chapter is a short list of the most relevant references and a set of exercises that reveal salient points and challenge the reader

Atomic-Scale Modeling of Nanosystems and Nanostructured Materials Carlo Massobrio,Hervé Bulou,Christine Goyhenex,2010-01-19 Understanding the structural organization of materials at the atomic scale is a lo standing challenge of condensed matter physics and chemistry By reducing the size of synthesized systems down to the nanometer or by constructing them as collection of nanoscale size constitutive units researchers are faced with the task of going beyond

models and interpretations based on bulk behavior Among the wealth of new materials having in common a nanoscale fingerprint one can encounter systems intrinsically extending to a few nanometers clusters of various compositions systems featuring at least one spatial dimension not repeated periodically in space and assemblies of nanoscale grains forming extended compounds For all these cases there is a compelling need of an atomic scale information combining knowledge of the topology of the system and of its bonding behavior based on the electronic structure and its interplay with the atomic configurations Recent developments in computer architectures and progresses in available computational power have made possible the practical realization of a paradigm that appeared totally unrealistic at the outset of computer simulations in materials science This consists in being able to parallel at least in principle any experimental effort by a simulation counterpart this occurring at the scale most appropriate to complement and enrich the experiment

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