# HUBBARD MODEL AND ANYON SUPERCONDUCTIVITY

A.P. Balachandran

E. Ercolessi

G. Morandi

A.M. Srivastava

World Scientific

# **Fractional Statistics And Anyon Superconductivity**

Eleonora Alfinito, M Boiti, Luigi Martina, F Pempinelli

# **Fractional Statistics And Anyon Superconductivity:**

Fractional Statistics and Anyon Superconductivity Frank Wilczek, 1990 Part I Concepts in fractional statistics part II States of anyon matter part III Reprinted papers **Fractional Statistics and Anyon Superconductivity** Frank Wilczek.1990 The occurrence of fractional statistics has been discovered in more and more quantum field theory models including some of the most geometrical and canonical ones In a remarkable case the fractional quantum statistics of quasiparticles in the fractional quantized Hall effect FQHE contributes to the understanding of states found there Very recent work has indicated that similar possibilities arise for two dimensional films in certain states of liquid 3He Perhaps most exciting although guite speculative at this moment are recent attempts to apply fractional statistics to spin systems and specifically to the behaviour of the 2 dimensional copper oxide layers that seem to be critical to the phenomenon of high temperature superconductivity It has recently been shown that fractional statistics automatically implies superconductivity of a qualitatively new kind This collection of reprints with comprehensive commentary will serve as a valuable reference for those interested in the subject but have found it difficult to acquire basic knowledge or a coherent view of the whole due to the scattered literature available at present Fractional Statistics And Quantum Theory (2nd Edition) Avinash Khare, 2005-02-02 This book explains the subtleties of quantum statistical mechanics in lower dimensions and their possible ramifications in quantum theory The discussion is at a pedagogical level and is addressed to both graduate students and advanced researchers with a reasonable background in quantum and statistical mechanics Topics in the first part of the book include the flux tube model of anyons the braid group and a detailed discussion about the various aspects of quantum and statistical mechanics of a noninteracting anyon gas The second part of the book includes a detailed discussion about fractional statistics from the point of view of Chern Simons theories Topics covered here include Chern Simons field theories charged vortices anyon superconductivity and the fractional quantum Hall effect Since the publication of the first edition of the book an exciting possibility has emerged that of quantum computing using anyons A section has therefore been included on this topic in the second edition In addition new sections have been added about scattering of anyons with hard disk repulsion as well as fractional exclusion statistics and negative probabilities The Hubbard Model And Anyon **Superconductivity** Aiyalam P Balachandran, Elisa Ercolessi, A M Srivastava, Giuseppe Morandi, 1990-11-30 Several different models have recently been proposed to explain High Temperature Superconductivity This book gives an authoritative and up to date review of two such proposals namely the Hubbard and Anyon Models This invaluable reference is a must for all physicists interested in the fast paced revolutionary field of High Temperature Superconductivity Physics and Mathematics of Anyons Shiing-Shen Chern, Ching-wu Chu, Chin Sen Ting, 1991 In this volume the fractional quantum Hall effect is reviewed and reexamined with emphasis on the fractional statistics Possible relevance of the anyon idea to high temperature superconductivity is addressed both theoretically and experimentally Physics and Mathematics of Anyons

Shiing-Shen Chern, 1991-01-01 **Physics And Mathematics Of Anyons - Proceedings Of The Tcsuh Workshop** C S Ting, Ching Wu Chu, Shiing-shen Chern, 1991-06-14 In this volume the fractional quantum Hall effect is reviewed and reexamined with emphasis on the fractional statistics Possible relevance of the anyon idea to high temperature superconductivity is addressed both theoretically and experimentally **Mechanisms of Conventional and High Tc** Superconductivity Vladimir Z. Kresin, Hans Morawitz, Stuart A. Wolf, 1993-06-17 Superconductivity has become one of the most intensely studied physical phenomena of our times with tremendous potential to revolutionize fields as diverse as computing and transportation This book describes the methods established results and recent advances in the field The goal is to present recently developed theoretical models in light of the long sought aim of achieving the effect at very high temperatures The book includes a detailed review of various mechanisms including phononic magnetic and electronic models The authors focus on the phenomenon of induced superconductivity in the high temperature oxides particularly the high transition temperature cuprates They also discuss a variety of low temperature superconducting systems in conventional materials and organics The book links the crucial experiments with the most current theories offering a unified description of the phenomenon All researchers and graduate level students involved with work in superconductivity will find this an invaluable resource including solid state and condensed matter physicists and chemists and materials scientists **Entropy** and Non-Equilibrium Statistical Mechanics Antonio M. Scarfone, Sumiyoshi Abe, Róbert Kovács, 2020-12-15 Nonequilibrium statistical mechanics has a long history featuring diverse aspects It has been a major research field in physics and will remain so in the future Even regarding the concept of entropy there exists a longstanding problem concerning its definition for a system in a state far from equilibrium In this Special Issue we offered the possibility to discuss and present up to date problems that were not necessarily restricted to statistical mechanics Theoretical and experimental papers are both presented in addition to unifying research works As the entropy itself is the central element of nonequilibrium processes papers discuss various formulations of the second law and its consequences In this Special Issue recent progress in kinetic approaches to hydrodynamics rational extended thermodynamics entropy in a strongly nonequilibrium stationary state and related topics are reported as both review articles as well as original research works

**Anyons** Alberto Lerda,2008-09-11 Particles with fractional statistics interpolating between bosons and fermions have attracted considerable interest from mathematical physicists In recent years it has emerged that these so called anyons have rather unexpected applications such as the fractional Hall effect anyonic excitations in films of liquid helium and high temperature superconductivity Furthermore they are discussed also in the context of conformal field theories This book is a systematic and pedagogical introduction that considers the subject of anyons from many different points of view In particular the author presents the relation of anyons to braid groups and Chern Simons field theory and devotes three chapters to physical applications The book while being of interest to researchers primarily addresses advanced students of mathematics

and physics Proceedings of the Third International Workshop on Contemporary Problems in Mathematical Physics Jan Govaerts, M. Norbert Hounkonnou, Alfred Z. Msezane, 2004 The COPROMAPH Conference series has now evolved into a significant international arena where fundamental concepts in mathematical and theoretical physics and their physics applications can be conceived developed and disseminated Basic ideas for addressing a variety of contemporary problems in mathematical and theoretical physics are presented in a nonintimidating atmosphere Experts provide the reader the fundamentals to predict new possibilities in physics and other fields The proceedings have been selected for coverage in OCo Index to Scientific Technical Proceedings ISTP ISI Proceedings OCo Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings OCo CC Proceedings OCo Engineering Physical Sciences **Superconductivity: A New Approach** Based On The Bethe-salpeter Equation In The Mean-field Approximation G P Malik, 2016-02-29 Given the Debye temperature of an elemental superconductor SC and its Tc BCS theory enables one to predict the value of its gap 0 at T 0 or vice versa This monograph shows that non elemental SCs can be similarly dealt with via the generalized BCS equations GBCSEs which given any two parameters of the set Tc 10 20 10 enable one to predict the third Also given herein are new equations for the critical magnetic field and critical current density of an elemental and a non elemental SC equations that are derived directly from those that govern pairing in them The monograph includes topics that are usually not covered in any one text on superconductivity e g BCS BEC crossover physics the long standing puzzle posed by SrTiO3 and heavy fermion superconductors all of which are still imperfectly understood and therefore continue to avidly engage theoreticians It suggests that addressing the Tcs s and other properties e g number densities of charge carriers of high Tc SCs via GBCSEs incorporating chemical potential may lead to tangible clues about raising their Tcs The final chapter in this monograph deals with solar emission lines and quarkonium spectra because of a feature common between them and superconductivity existence of a bound state in a medium at finite temperature This is a problem on which the author has worked for more than 25 years The treatment in the text is elementary even those who have only a cursory familiarity with Feynman diagrams should be able to follow it without much difficulty **Mapping of Parent Hamiltonians** Martin Greiter, 2011-12-04 This monograph introduces an exact model for a critical spin chain with arbitrary spin S which includes the Haldane Shastry model as the special case S 1 2 While spinons in the Haldane Shastry model obey abelian half fermi statistics the spinons in the general model introduced here obey non abelian statistics. This manifests itself through topological choices for the fractional momentum spacings The general model is derived by mapping exact models of quantized Hall states onto spin chains The book begins with pedagogical review of all the relevant models including the non abelian statistics in the Pfaffian Hall state and is understandable to every student with a graduate course in quantum mechanics **High Energy Physics** Index ,1993 Superconductivity A. Bisarsh, 1999 This book consists of over 600 selected descriptions and abstracts of books book chapters patents and journal articles from throughout the world dealing with this high profile topic Each citation

contains complete bibliographic data plus key words The entries are grouped under the headings of Theory of Superconductivity Superconducting Devices Superconducting Properties of Materials Applications of Superconductors Author Index Subject Index Compendium of Quantum Physics Daniel Greenberger, Klaus Hentschel, Friedel Weinert, 2009-07-25 With contributions by leading quantum physicists philosophers and historians this comprehensive A to Z of quantum physics provides a lucid understanding of key concepts of quantum theory and experiment It covers technical and interpretational aspects alike and includes both traditional and new concepts making it an indispensable resource for concise up to date information about the many facets of quantum physics **Symmetry And Structural Properties Of Condensed** Matter - Proceedings Of The 5th International School On Theoretical Physics Tadeusz Lulek, Barbara Lulek, Andrzej Wal, 1999-10-15 This volume continues the series of proceedings of summer schools on theoretical physics which aim at an adequate description of the structure of condensed matter in terms of sophisticated advanced mathematical tools This time the main emphasis is put on the question of whether and when the energy bands in solids are continuous Profs L Michel J Zak and others consider the origin existence and continuity of band structure Also some previously discussed problems magnetic symmetry flux quantization statistics quasicrystals the Bethe ansatz are pursued further and appropriate mathematical tools rooted in actions of groups on sets are developed Quantum Groups and Their Applications in Physics Leonardo Castellani, Julius Wess, Società italiana di fisica, 1996 This book focuses on quantum groups i e continuous deformations of Lie groups and their applications in physics These algebraic structures have been studied in the last decade by a growing number of mathematicians and physicists and are found to underlie many physical systems of interest They do provide in fact a sort of common algebraic ground for seemingly very different physical problems As it has happened for supersymmetry the g group symmetries are bound to play a vital role in physics even in fundamental theories like gauge theory or gravity In fact g symmetry can be considered itself as a generalization of supersymmetry evident in the g commutator formulation. The hope that field theories on g groups are naturally reguralized begins to appear founded and opens new perspectives for quantum gravity The topics covered in this book include conformal field theories and quantum groups gauge theories of quantum groups anyons differential calculus on quantum groups and non commutative geometry poisson algebras 2 dimensional statistical models 2 1 quantum gravity quantum groups and lattice physics inhomogeneous q groups q Poincaregroup and deformed gravity and gauging of W algebras The Role of Topology in Classical and Quantum Physics Giuseppe Morandi, 2008-09-11 In solid state physics especially topological techniques have turned out to be extremely useful for modelling and explaining physical properties of matter This book illustrates various applications of algebraic topology in classical field theory non linear sigma models and in quantizations in multiply connected spaces anyons It treats Chern Simon Lagrangians Berry s phase the polarization of light and the fractional quantum Hall effect Nonlinear Physics: Theory And Experiment: Nature, Structure And Properties Of Nonlinear Phenomena - Proceedings Of The First Conference Eleonora

Alfinito,M Boiti,Luigi Martina,F Pempinelli,1996-06-20 This volume constitutes the proceedings of the Workshop Nonlinear Physics Theory and Experiment held in Gallipoli Lecce Italy from June 29 to July 7 1995 The purpose of the Workshop was to bring together scientists whose common interest is the nature structure and properties of nonlinear phenomena in various areas of physics and applied mathematics The purpose of the Workshop was to bring together scientists whose common interest is the nature structure and properties of nonlinear phenomena in various areas of physics and applied mathematics In fact topics covered at the Workshop run from nonlinear optics to molecular dynamics plasma waves hydrodynamics quantum electronics and solid state and from inverse scattering transform methods to dynamical systems including integrability hamiltonian structures geometrical aspects turbulence and chaos

# Fractional Statistics And Anyon Superconductivity Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Fractional Statistics And Anyon Superconductivity**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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