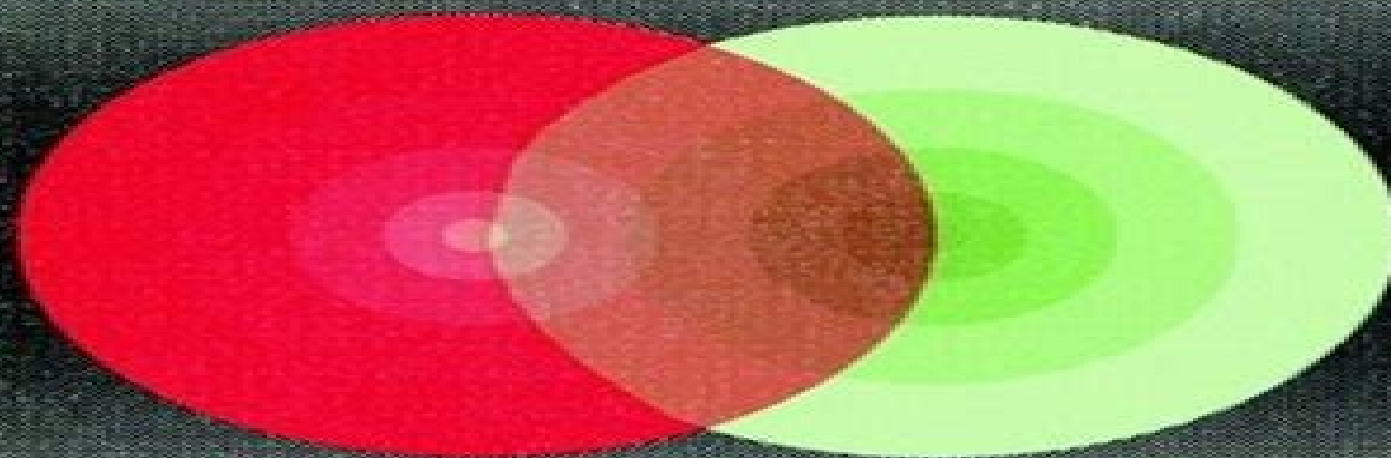


High-Temperature Superconductivity in Cuprates

The Nonlinear Mechanism and Tunneling Measurements

by
Andrei Mourachkine

Kluwer Academic Publishers



Fundamental Theories of Physics

High temperature Superconductivity In Cuprates The Nonlinear Mechanism And Tunneling Measurements

Ajoy Ghatak, S. Lokanathan



Hightemperature Superconductivity In Cuprates The Nonlinear Mechanism And Tunneling Measurements:

High-Temperature Superconductivity in Cuprates A. Mourachkine, 2006-04-11 The Frontiers of Knowledge to coin a phrase are always on the move day s discovery will tomorrow be part of the mental furniture of every research worker By the end of next week it will be in every course of graduate lectures Within the month there will be a clamour to have it in the undergraduate curriculum Next year I do believe it will seem so commonplace that it may be assumed to be known by every schoolboy The process of advancing the line of settlements and cultivating and c ilizing the new territory takes place in stages The original papers are p lished to the delight of their authors and to the critical eyes of their readers Review articles then provide crude sketch plans elementary guides through the forests of the literature Then come the monographs exact surveys mapping out the ground that has been won adjusting claims for priority putting each fact or theory into its place J M Ziman Principles of the Theory of Solids Cambridge University Press 1972 p v The main purpose of the book is to present the mechanism of perconductivity discovered in 1986 by J G Bednorz and K A M ller and to discuss the physics of superconductors The last chapter of the book presents analysis of tunneling measurements in cuprates The book is dressed to researchers and graduate students in all branches of exact sciences Quantum Measure Theory J.

Hamhalter, 2013-03-14 This book is the first systematic treatment of measures on projection lattices of von Neumann algebras It presents significant recent results in this field One part is inspired by the Generalized Gleason Theorem on extending measures on the projection lattices of von Neumann algebras to linear functionals Applications of this principle to various problems in quantum physics are considered hidden variable problem Wigner type theorems decoherence functional etc Another part of the monograph deals with a fascinating interplay of algebraic properties of the projection lattice with the continuity of measures the analysis of Jauch Piron states independence conditions in quantum field theory etc These results have no direct analogy in the standard measure and probability theory On the theoretical physics side they are instrumental in recovering technical assumptions of the axiomatics of quantum theories only by considering algebraic properties of finitely additive measures states on quantum propositions Ettore Majorana: Notes on Theoretical Physics Salvatore

Esposito, Ettore Majorana Jr., Alwyn van der Merwe, E. Recami, 2013-03-09 HISTORICAL PRELUDE Ettore Majorana s fame solidly rests on testimonies like the following from the evocative pen of Giuseppe Cocconi At the request of Edoardo Amaldi he wrote from CERN July 18 1965 In January 1938 after having just graduated I was invited essen tially by you to come to the Institute of Physics at the University in Rome for six months as a teaching assistant and once I was there I would have the good fortune of joining Fermi Bernardini who had been given a chair at Camerino a few months earlier and Ageno he too a new graduate in the research of the products of disintegration of L mesons at that time called mesotrons or yukons which are produced by cosmic rays It was actually while I was staying with Fermi in the small laboratory on the second floor absorbed in our work with Fermi working with a piece of Wilson s chamber which would help to reveal mesons at the end of their

range on a lathe and me constructing a jalopy for the illumination of the chamber using the flash produced by the explosion of an aluminum ribbon short circuited on a battery that Ettore Majorana came in search of Fermi I was introduced to him and we exchanged few words A dark face And that was it

Introduction to Soliton Theory: Applications to Mechanics

Ligia Munteanu,Stefania Donescu,2006-07-06 This monograph is planned to provide the application of the soliton theory to solve certain practical problems selected from the fields of solid mechanics fluid mechanics and biomechanics The work is based mainly on the authors research carried out at their home institutes and on some specified significant results existing in the published literature The methodology to study a given evolution equation is to seek the waves of permanent form to test whether it possesses any symmetry properties and whether it is stable and solitonic in nature Students of physics applied mathematics and engineering are usually exposed to various branches of nonlinear mechanics especially to the soliton theory The soliton is regarded as an entity a quasi particle which conserves its character and interacts with the surroundings and other solitons as a particle It is related to a strange phenomenon which consists in the propagation of certain waves without attenuation in dissipative media This phenomenon has been known for about 200 years it was described for example by the Joule Verne s novel Les histoires de Jean Marie Cabidoulin d Hetzel but its detailed quantitative description became possible only in the last 30 years due to the exceptional development of computers The discovery of the physical soliton is attributed to John Scott Russell In 1834 Russell was observing a boat being drawn along a narrow channel by a pair of horses

Deformed Spacetime Fabio Cardone,Roberto Mignani,2007-09-04 This volume provides a detailed discussion of the mathematical aspects and physical applications of a new geometrical structure of space time based on a generalization deformation of the usual Minkowski space as supposed to be endowed with a metric whose coefficients depend on the energy This new five dimensional scheme Deformed Relativity in Five Dimensions DR5 represents a true generalization of the usual Kaluza Klein KK formalism

Factorization Method in Quantum Mechanics

Shi-Hai Dong,2007-04-01 This book introduces the factorization method in quantum mechanics at an advanced level with the aim of putting mathematical and physical concepts and techniques like the factorization method Lie algebras matrix elements and quantum control at the reader s disposal For this purpose the text provides a comprehensive description of the factorization method and its wide applications in quantum mechanics which complements the traditional coverage found in quantum mechanics textbooks

Vavilov-Cherenkov and Synchrotron Radiation G.N. Afanasiev,2004-09-07 The theory of the Vavilov Cherenkov radiation observed by Cherenkov in 1934 was created by Tamm Frank and Ginsburg who associated the observed blue light with the uniform charge motion of a charge at a velocity greater than the velocity of light in the medium On the other hand Vavilov Cherenkov s teacher attributed the observed blue light to the deceleration of electrons This has given rise to the appearance of papers in which the radiation of a charge uniformly moving in a finite space interval was related to the Bremsstrahlung arising at the end points of the motion interval This monograph is intended for students of the third year and higher for

postgraduates for professional scientists both experimentalists and theoreticians dealing with Vavilov Cherenkov and synchrotron radiation An acquaintance with the three volumes of the Landau and Lifshitz course Quantum Mechanics Classical Field Theory and Macroscopic Electrodynamics is sufficient for understanding the text

Applications of the Theory of Groups in Mechanics and Physics Petre P. Teodorescu, Nicolae-A.P. Nicorovici, 2004-04-30 The notion of group is fundamental in our days not only in mathematics but also in classical mechanics electromagnetism theory of relativity quantum mechanics theory of elementary particles etc This notion has developed during a century and this development is connected with the names of great mathematicians as E Galois A L Cauchy C F Gauss W R Hamilton C Jordan S Lie E Cartan H Weyl E Wigner and of many others In mathematics as in other sciences the simple and fertile ideas make their way with difficulty and slowly however this long history would have been of a minor interest had the notion of group remained connected only with rather restricted domains of mathematics those in which it occurred at the beginning But at present groups have invaded almost all mathematical disciplines mechanics the largest part of physics of chemistry etc We may say without exaggeration that this is the most important idea that occurred in mathematics since the invention of infinitesimal calculus indeed the notion of group expresses in a precise and operational form the vague and universal ideas of regularity and symmetry The notion of group led to a profound understanding of the character of the laws which govern natural phenomena permitting to formulate new laws correcting certain inadequate formulations and providing unitary and non contradictory formulations for the investigated phenomena

The Universe of Fluctuations B. G. Sidharth, 2006-03-30 The Universe of Fluctuations The Architecture of Spacetime and the Universe is a path breaking work which proposes solutions to the impasse and crisis facing fundamental physics and cosmology It describes a cosmological model based on fuzzy spacetime that has correctly predicted a dark energy driven acceleration of our expanding universe with a small cosmological constant at a time when the popular belief was quite the contrary It describes how the Universe is made up of an underpinning of Planck oscillators in a Quantum Vacuum This leads to amongst other things a characterization of gravitation as being distributional over the entire Universe thereby providing an answer to a puzzle brought to light by Weinberg years ago and since overlooked There is also a simple formula for the mass spectrum of all known elementary particles based on QCD dynamics Many other interesting ramifications and experimental tests for the future are also discussed This apart there is a brief survey of some of the existing theories The book is accessible to junior and senior researchers in High Energy Physics and Cosmology as well as the serious graduate student in Physics

Reading Bohr: Physics and Philosophy Arkady Plotnitsky, 2006-11-15 Reading Bohr Physics and Philosophy offers a new perspective on Niels Bohr's interpretation of quantum mechanics as complementarity and on the relationships between physics and philosophy in Bohr's work which has had momentous significance for our understanding of quantum theory and of the nature of knowledge in general Philosophically the book reassesses Bohr's place in the Western philosophical tradition from Kant and Hegel on

Physically it reconsiders the main issues at stake in the Bohr Einstein confrontation and in the ongoing debates concerning quantum physics. It also devotes greater attention than in most commentaries on Bohr to the key developments and transformations of his thinking concerning complementarity. Most significant among them were those that occurred first under the impact of Bohr's exchanges with Einstein and second under the impact of developments in quantum theory itself both quantum mechanics and quantum field theory. The importance of quantum field theory for Bohr's thinking has not been adequately addressed in the literature on Bohr to the considerable detriment to our understanding of the history of quantum physics. Filling this lacuna is one of the main contributions of the book which also enables us to show why quantum field theory compels us to move beyond Bohr without however simply leaving him behind.

Quantum Mechanics Ajoy Ghatak, S. Lokanathan, 2004-03-31 An understanding of quantum mechanics is vital to all students of physics chemistry and electrical engineering but requires a lot of mathematical concepts the details of which are given with great clarity in this book. Various concepts have been derived from first principles so it can also be used for self study. The chapters on the JWKB approximation time independent perturbation theory and effects of magnetic field stand out for their clarity and easy to understand mathematics. Two complete chapters on the linear harmonic oscillator provide a very detailed discussion of one of the most fundamental problems in quantum mechanics. Operator algebra is used to show the ease with which one can calculate the harmonic oscillator wave functions and study the evolution of the coherent state. Similarly three chapters on angular momentum give a detailed account of this important problem. Perhaps the most attractive feature of the book is the excellent balance between theory and applications and the large number of applications in such diverse areas as astrophysics nuclear physics atomic and molecular spectroscopy solid state physics and quantum well structures.

Cosmological Pattern of Microphysics in the Inflationary Universe Maxim Y. Khlopov, Sergei G. Rubin, 2013-03-20 Modern cosmology is a quickly developing field of research. New technical devices and tools supply the community with new experimental data measured with high accuracy. The self consistent explanation of these data needs theoretical models that are based on hypothetical predictions of particle theory. In their turn such predictions imply cosmology for their probe. Specific studies of the cosmological consequences of particle theory linking them to their observable signatures are actual. This boiling kettle of theoretical research and experimental efforts produces ideas that will be preserved for following generations. The aim of this book is to acquaint the reader with some of these ideas offering nontrivial ways to probe the physical basis of modern cosmology. An extensive review of the newest ideas in modern cosmology e.g. related with the development of the M-brane theory lies beyond the scope of our book which is aimed at providing a firmly established system of probes for these ideas linking their predictions to their possible experimental test. We use the framework of inflationary paradigm to reveal the phenomena that can shed light on the physical origin of the observed Universe of its matter content and large scale structure. The crucial role of quantum fluctuations in creation of our Universe and in possible features reflecting cosmological impact of microphysics is

discussed These features are shown to be accessible to perimental test in the near future Relativity and the Dimensionality of the World Vesselin Petkov,2007-10-08 All physicists would agree that one of the most fundamental problems of the 21st century physics is the dimensionality of the world In the four dimensional world of Minkowski or Minkowski spacetime the most challenging problem is the nature of the temporal dimension In Minkowski spacetime it is merely one of the four dimensions which means that it is entirely given like the other three spacial dimensions If the temporal dimension were not given in its entirety and only one constantly changing moment of it existed Minkowski spacetime would be reduced to the ordinary three dimensional space But if the physical world represented by Minkowski spacetime is indeed four dimensional with time being the fourth dimension then such a world is drastically different from its image based on our perceptions Minkowski four dimensional world is a block Universe a frozen world in which nothing happens since all moments of time are given at once which means that physical bodies are four dimensional worldtubes containing the whole histories in time of the three dimensional bodies of our everyday experience The implications of a real Minkowski world for physics itself and especially for our world view are enormous The main focus of this volume is the question is spacetime nothing more than a mathematical space which describes the evolution in time of the ordinary three dimensional world or is it a mathematical model of a real four dimensional world with time entirely given as the fourth dimension It contains fourteen invited papers which either directly address the main question of the nature of spacetime or explore issues related to it Classical Electromagnetic Theory Jack Vanderlinde,2006-01-17 In questions of science the authority of a thousand is not worth the humble reasoning of a single individual Galileo Galilei physicist and astronomer 1564 1642 This book is a second edition of Classical Electromagnetic Theory which derived from a set of lecture notes compiled over a number of years of teaching elect magnetic theory to fourth year physics and electrical engineering students These students had a previous exposure to electricity and magnetism and the material from the rst four and a half chapters was presented as a review I believe that the book makes a reasonable transition between the many excellent elementary books such as Gri th s Introduction to Electrodynamics and the obviously graduate level books such as Jackson s Classical Electrodynamics or Landau and Lifshitz Elect dynamics of Continuous Media If the students have had a previous exposure to Electromagnetictheory allthetmaterialcanbereasonablycoveredintwosemesters Neophytes should probable spend a semester on the rst four or ve chapters as well as depending on their mathematical background the Appendices B to F For a shorter or more elementary course the material on spherical waves waveguides and waves in anisotropic media may be omitted without loss of continuity High-Temperature Superconductivity in Cuprates A. Mourachkine,2002-07-31 The main purpose of the book is to present a description of the mechanism of high temperature superconductivity and to discuss the physics of high temperature superconductors both entirely based on experimental facts The pairing mechanism of this remarkable phenomenon is based on an anomaly found in tunneling V characteristics of some cuprates By using the soliton theory it is

then shown that this anomaly is caused by pairs of quasi one dimensional excitations bisolitons bound due to a moderately strong nonlinear electron phonon interaction At the same time analysis of experimental data unambiguously shows that magnetic spin fluctuations mediate the phase coherence in cuprates The mechanism of superconductivity in quasi one dimensional organic superconductors and heavy fermions is discussed too In cuprates the origins of five different energy temperature scales are identified Finally three main principles of superconductivity are introduced at the end of the book Analysis of tunneling and angle resolved photoemission measurements is presented in the last chapter The book which contains 300 pages with 180 illustrations is addressed to researchers and graduate students in all branches of exact sciences

Uniformly Accelerating Charged Particles Stephen Lyle, 2008-07-22 This book examines the problems with the LD equation in flat spacetime and details its extension to curved spacetime It compares different equivalence principles as well as vindicates some

Challenges to The Second Law of Thermodynamics Vladislav Capek, Daniel P. Sheehan, 2005-02-15 The second law of thermodynamics is considered one of the central laws of science engineering and technology For over a century it has been assumed to be inviolable by the scientific community Over the last 10 20 years however more than two dozen challenges to it have appeared in the physical literature more than during any other period in its 150 year history The number and variety of these represent a cogent threat to its absolute status This is the first book to document and critique these modern challenges Written by two leading exponents of this rapidly emerging field it covers the theoretical and experimental aspects of principal challenges In addition unresolved foundational issues concerning entropy and the second law are explored This book should be of interest to anyone whose work or research is touched by the second law

Relativity in Rotating Frames G. Rizzi, M.L. Ruggiero, 2013-03-09 Even if the subject is a long standing one this is the first monograph on this field On the one hand this book is intended to give a rather wide review on this field both in a historical and pedagogical perspective on the other hand it aims at critically re examining and discussing the most controversial issues For instance according to some authors the celebrated Sagnac effect is a disproof of the theory of relativity applied to rotating frames according to others it is an astonishing experimental evidence of the relativistic theory In order to give the reader a deeper insight into this research field the contributing authors discuss their opinions on the main subjects in an enthralling virtual round table in this way the reader can get a direct comparison of the various viewpoints on the most controversial and interesting topics This is particularly expedient since the differences in the various approaches are often based upon subtleties that can be understood only by a direct comparison of the underlying hypotheses

Complex Spaces in Finsler, Lagrange and Hamilton Geometries Gheorghe Munteanu, 2012-11-03 From a historical point of view the theory we submit to the present study has its origins in the famous dissertation of P Finsler from 1918 Fi In a the classical notion also conventional classification Finsler geometry has besides a number of generalizations which use the same work technique and which can be considered self geometries Lagrange and Hamilton spaces Finsler geometry had a period of

incubation long enough so that few mathematicians E Cartan L Berwald S S Chern H Rund had the patience to penetrate into a universe of tensors which made them compare it to a jungle To all of us who study nowadays Finsler geometry it is obvious that the qualitative leap was made in the 1970 s by the crystallization of the nonlinear connection notion a notion which is almost as old as Finsler space SZ_4 and by work skills into its adapted frame fields The results obtained by M Matsumoto collected later in 1986 in a monograph Ma_3 aroused interest not only in Japan but also in other countries such as Romania Hungary Canada and the USA where schools of Finsler geometry are founded and are presently widely recognized

Geometry, Topology and Quantum Field Theory P. Bandyopadhyay, 2003-07-31 This is a monograph on geometrical and topological features which arise in quantum field theory It is well known that when a chiral fermion interacts with a gauge field we have chiral anomaly which corresponds to the fact that divergence of the axial vector current does not vanish It is observed that this is related to certain topological features associated with the fermion and leads to the realization of the topological origin of fermion number as well as the Berry phase The role of gauge fields in the quantization procedure has its implications in these topological features of a fermion and helps us to consider a massive fermion as a soliton skyrmion In this formalism chiral anomaly is found to be responsible for mass generation This has its relevance in electroweak theory where it is observed that weak interaction gauge bosons attain mass topologically The geometrical feature of a skyrmion also helps us to realize the internal symmetry of hadrons from reflection group Finally it has been shown that noncommutative geometry where the space time manifold is taken to be $X \times M \times Z_2$ has its relevance in the description of a massive 4 fermion as a skyrmion when the discrete space is considered as the internal space and the symmetry breaking leads to chiral anomaly In chap I preliminary mathematical formulations related to the spinor structure have been discussed In chap

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Introduction

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