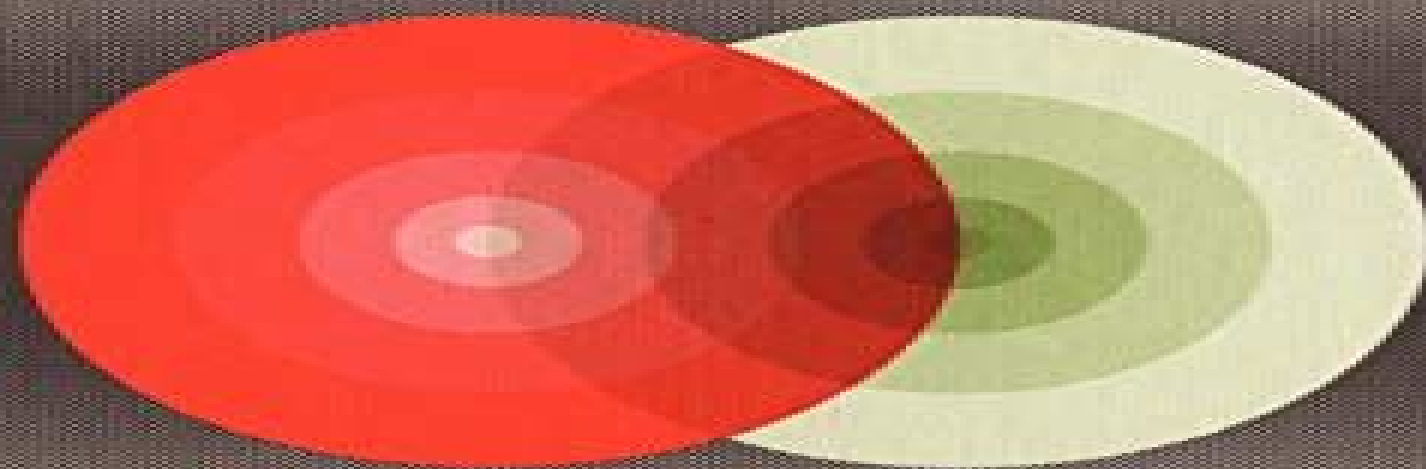


Fundamental Problems in Quantum Physics

Edited by

**Miguel Ferrero and
Alwyn van der Merwe**

Kluwer Academic Publishers



Fundamental Theories of Physics

Fundamental Problems In Quantum Physics

J. Keller



Fundamental Problems In Quantum Physics:

Fundamental Problems in Quantum Physics M. Ferrero, Alwyn van der Merwe, 2013-06-29 For many physicists quantum theory contains strong conceptual difficulties while for others the apparent conclusions about the reality of our physical world and the ways in which we discover that reality remain philosophically unacceptable This book focuses on recent theoretical and experimental developments in the foundations of quantum physics including topics such as the puzzles and paradoxes which appear when general relativity and quantum mechanics are combined the emergence of classical properties from quantum mechanics stochastic electrodynamics EPR experiments and Bell's Theorem the consistent histories approach and the problem of datum uniqueness in quantum mechanics non local measurements and teleportation of quantum states quantum non demolition measurements in optics and matter wave properties observed by neutron electron and atomic interferometry Audience This volume is intended for graduate students of physics and those interested in the foundations of quantum theory

Fundamental Problems in Quantum Field Theory Takehisa Fujita, Naohiro Kanda, 2013-08-07 Quantum physics is based on four fundamental interactions of electromagnetic weak gravitational and strong forces All the interactions are expressed in terms of fermion and boson fields which can describe the quantum states of electrons nucleons and photons in atoms or nuclei Correct behaviors of these particles can now be described by the basic field theory terminology and this textbook explains for the first time quantum field theory in a unifying method At present modern quantum theory is at a critical junction between different theories and this textbook presents a clear description of fundamental quantum fields with a sound theoretical framework No exotic theoretical concepts such as general relativity nor spontaneous symmetry breaking nor quantum anomaly are adopted in this textbook and indeed all the observed physical quantities can be well understood within the standard field theory framework without introducing any non physical particles or fields From this textbook readers will be guided through a concrete future direction of quantum field theory and will learn how the motion of electrons in any kind of material can be understood in terms of fields or state vectors Readers will also learn about application of basic field theory in quantum chemistry quantum biology and so on Fundamental Problems in Quantum Field Theory is a handy resource for undergraduate and graduate students as well as supervisors involved in advanced courses in quantum physics

New Developments on Fundamental Problems in Quantum Physics M. Ferrero, Alwyn van der Merwe, 2012-12-06 Quantum theory is one of the most fascinating and successful constructs in the intellectual history of mankind Nonetheless the theory has very shaky philosophical foundations This book contains thoughtful discussions by eminent researchers of a spate of experimental techniques newly developed to test some of the stranger predictions of quantum physics The advances considered include recent experiments in quantum optics electron and ion interferometry photon down conversion in nonlinear crystals single trapped ions interacting with laser beams atom field coupling in micromaser cavities quantum computation quantum cryptography decoherence and macroscopic quantum effects the quantum state diffusion model

quantum gravity the quantum mechanics of cosmology and quantum non locality along with the continuing debate surrounding the interpretation of quantum mechanics Audience The book is intended for physicists philosophers of science mathematicians graduate students and those interested in the foundations of quantum theory *Fundamental Problems in Quantum Physics* Miguel Ferrero Melgar,Susana Fernández,1993 **New Developments on Fundamental Problems in Quantum Physics** Miguel Ferrero Melgar,Susana Fernández,1996 **Fundamental Problems in Quantum Theory** Daniel M. Greenberger,Anton Zeilinger,1995 Problems In Quantum Physics Ii; Gdansk 89 - Recent And Future Experiments And Interpretations Marek Zukowski,Jacek Mizerski,Andrzej Posiewnik,Jaroslaw Pykacz,1990-08-30 The papers in this volume discuss both the theoretical concepts and experiments of the fundamental problems associated with the interpretation of Quantum Mechanics The major theme is the continuation of the discussion between Bohr and Einstein in the light of modern technology which can turn gedanken experiments into realizable ones Differences between various interpretations and results of recently performed experiments tests of Bell s inequalities neutron interferometry fourth order interferometry are presented A wide scope of possible interpretations or views are covered but no preference is given to any particular one In addition philosophical problems associated with the question of foundations of quantum mechanics are also discussed **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 **Relativity and the Dimensionality of the World** Vesselin Petkov,2007-10-08 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 The book contains fourteen invited papers which either directly address the main question of the nature of spacetime or explore issues related to it *Hierarchical Methods* V. Kulish,2006-04-11 Everybody is current in a world surrounded by computer Computers determine our professional activity and penetrate increasingly deeper into our everyday life Therein we also need increasingly refined computer technology Sometimes we think that the next generation of

puter will satisfy all our dreams giving us hope that most of our urgent problems will be solved very soon However the future comes and illusions dissipate This phenomenon occurs and vanishes sporadically and possibly is a fundamental law of our life Experience shows that indeed systematically remaining problems are mainly of a complex technological nature the creation of new generation of especially perfect cross schemes elements of memory etc But let us note that amongst these problems there are always ones solved by our purely intellectual efforts alone Progress in this direction does not require the invention of any superchip or other similar elements It is important to note that the results obtained in this way very often turn out to be more significant than the fruits of relevant technological progress The hierarchical asymptotic analytical numerical methods can be regarded as results of such purely intellectual efforts Their application allows us to simplify essentially computer calculational procedures and consequently to reduce the calculational time required It is obvious that this circumstance is very attractive to any computer user

Isodual Theory of Antimatter Ruggero Maria Santilli, 2006-02-28 The scope of this monograph is to show that our classical quantum and cosmological knowledge of antimatter is at its beginning with much yet to be discovered and that a commitment to antimatter by experimentalists will be invaluable to antimatter science This is also the first book presenting the isodual theory of antimatter It is aimed at scientists and researchers in theoretical physics

Cosmology in Scalar-Tensor Gravity Valerio Faraoni, 2004-03-31 Cosmology in Scalar Tensor Gravity covers all aspects of cosmology in scalar tensor theories of gravity Considerable progress has been made in this exciting area of physics and this book is the first to provide a critical overview of the research Among the topics treated are Scalar tensor gravity and its limit to general relativity Effective energy momentum tensors and conformal frames Gravitational waves in scalar tensor cosmology Specific scalar tensor theories Exact cosmological solutions and cosmological perturbations Scalar tensor scenarios of the early universe and inflation Scalar tensor models of quintessence in the present universe and their far reaching consequences for the ultimate fate of the cosmos

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

Theory of the Electron J. Keller, 2001-02-28 In the first century after its discovery the electron has come to be a fundamental element in the analysis of physical aspects of nature This book is devoted to the construction of a deductive theory of the electron starting from first principles and using a simple mathematical tool geometric analysis Its purpose is to present a comprehensive theory of the electron to the point where a connection can be made with the main approaches to the study of the electron in physics The introduction describes the methodology Chapter 2 presents the concept of space time action relativity theory and in chapter 3 the mathematical structures describing action are analyzed Chapters 4 5 and 6 deal with the theory of the electron in a

series of aspects where the geometrical analysis is more relevant Finally in chapter 7 the form of geometrical analysis used in the book is presented to elucidate the broad range of topics which are covered and the range of mathematical structures which are implicitly or explicitly included The book is directed to two different audiences of graduate students and research scientists primarily to theoretical physicists in the field of electron physics as well as those in the more general field of quantum mechanics elementary particle physics and general relativity secondly to mathematicians in the field of geometric analysis

Beyond the Einstein Addition Law and its Gyroscopic Thomas Precession Abraham A. Ungar, 2012-12-06 I cannot define coincidence in mathematics But 1 shall argue that coincidence can always be elevated or organized into a superstructure which performs a unification along the coincidental elements The existence of a coincidence is strong evidence for the existence of a covering theory Philip 1 Davis Dav81 Alluding to the Thomas gyration this book presents the Theory of gyrogroups and gyrovector spaces taking the reader to the immensity of hyperbolic geometry that lies beyond the Einstein special theory of relativity Soon after its introduction by Einstein in 1905 Einstein's special relativity theory as named by Einstein ten years later became overshadowed by the appearance of general relativity Subsequently the exposition of special relativity followed the lines laid down by Minkowski in which the role of hyperbolic geometry is not emphasized This can doubtlessly be explained by the strangeness and unfamiliarity of hyperbolic geometry Bar98 The aim of this book is to reverse the trend of neglecting the role of hyperbolic geometry in the special theory of relativity initiated by Minkowski by emphasizing the central role that hyperbolic geometry plays in the theory

Controlled Nucleosynthesis Stanislav Adamenko, Franco Selleri, Alwyn van der Merwe, 2007-04-17 This book ushers in a new era of experimental and theoretical investigations into collective processes structure formation and self organization of nuclear matter It reports the results of experiments wherein for the first time the nuclei constituting our world those displayed in Mendeleev's table as well as the super heavy ones have been artificially created Pioneering breakthroughs are described achieved at the Proton 21

Laboratory Kiev Ukraine in a variety of new physical and technological directions

Nuclear Matter in Different Phases and Transitions Jean-Paul Blaizot, Xavier Campi, Marek Ploszajczak, 2012-12-06 Nuclei in their ground states behave as quantum fluids Fermi liquids When the density or the temperature of that fluid increases various phase transitions may occur Thus for moderate excitation energies of the order of a few MeV per nucleon nuclear matter behaves as an ordinary fluid with gaseous and liquid phases and a coexistence region below a critical temperature For higher excitation energies of the order of a few GeV per nucleon the composition of nuclear matter changes nucleons being gradually turned into baryonic resonances of various kinds Finally when the energy density exceeds some few GeV fm nuclear matter turns into a gas of weakly interacting quarks and gluons This new phase of matter has been called the quark gluon plasma and its existence is a prediction of Quantum Chromodynamics Collisions of heavy ions produce nuclear matter with various degrees of excitation In fact by selecting the impact parameter and the bombarding energy one can produce nuclear matter with specified baryonic

density and excitation energy Several major experimental programs are under way for instance at GANIL with the detector INDRA at GSI with the detector ALADIN at the CERN SPS at the AGS of Brookhaven etc or are in preparation RHIC LHC etc The goal of these experiments is to get evidence for the different phases of nuclear matter predicted by the theory and to study their properties

Theory of High Temperature Superconductivity S. Fujita, S. Godoy, 2006-04-11 Flux quantization experiments indicate that the carriers Cooper pairs pairons in the supercurrent have charge magnitude $2e$ and that they move independently Josephson interference in a Superconducting Quantum Interference Device SQUID shows that the centers of masses CM of pairons move as bosons with a linear dispersion relation Based on this evidence we develop a theory of superconductivity in conventional and materials from a unified point of view Following Bardeen Cooper and Schrieffer BCS we regard the phonon exchange attraction as the cause of superconductivity For cuprate superconductors however we take account of both optical and acoustic phonon exchange BCS started with a Hamiltonian containing electron and hole kinetic energies and a pairing interaction with the phonon variables eliminated These electrons and holes were introduced formally in terms of a free electron model which we consider unsatisfactory We define electrons and holes in terms of the curvatures of the Fermi surface Electrons 1 and holes 2 are different and so they are assigned with different effective masses Blatt Schafroth and Butler proposed to explain superconductivity in terms of a Bose Einstein Condensation BEC of electron pairs each having mass M and a size The system of free massive bosons having a quadratic dispersion relation and moving in three dimensions 3D undergoes a BEC transition at where is the pair density

Precisely Predictable Dirac Observables Heinz Otto Cordes, 2007-01-10 In this book we are attempting to offer a modification of Dirac's theory of the electron we believe to be free of the usual paradoxes so as perhaps to be acceptable as a clean quantum mechanical treatment While it seems to be a fact that the classical mechanics from Newton to Einstein's theory of gravitation offers a very rigorous concept free of contradictions and able to accurately predict motion of a mass point quantum mechanics even in its simplest cases does not seem to have this kind of clarity Almost it seems that everyone of its fathers had his own wave equation For the quantum mechanical 1 body problem with vanishing potentials let us focus on 3 different wave equations I The Klein Gordon equation $\nabla^2 \psi = \frac{1}{c^2} \frac{\partial^2 \psi}{\partial t^2}$ This equation may be written as $\nabla^2 \psi = \frac{1}{c^2} \frac{\partial^2 \psi}{\partial t^2}$ Here it may be noted that the operator ∇^2 has a well defined positive square root as unbounded self adjoint positive operator of the Hilbert space $H^1(\mathbb{R}^3)$

The Geometry of Hamilton and Lagrange Spaces R. Miron, Dragos Hrimiuc, Hideo Shimada, Sorin V. Sabau, 2006-04-11 The title of this book is no surprise for people working in the field of Analytical Mechanics However the geometric concepts of Lagrange space and Hamilton space are completely new The geometry of Lagrange spaces introduced and studied in 1966 was extensively examined in the last two decades by geometers and physicists from Canada Germany Hungary Italy Japan Romania Russia and U S A Many international conferences were devoted to debate this subject proceedings and monographs were published 10 18 112 113 A large area of applicability of this geometry is suggested by the connections to Biology Mechanics and

Physics and also by its general setting as a generalization of Finsler and Riemannian geometries The concept of Hamilton space introduced in [105, 101] was intensively studied in [63, 66, 97] and it has been successful as a geometric theory of the Hamiltonian function the fundamental entity in Mechanics and Physics The classical Legendre's duality makes possible a natural connection between Lagrange and Hamilton spaces It reveals new concepts and geometrical objects of Hamilton spaces that are dual to those which are similar in Lagrange spaces Following this duality Cartan spaces introduced and studied in [98, 99] are roughly speaking the Legendre duals of certain Finsler spaces [98, 66, 67] The above arguments make this monograph a continuation of [106, 113] emphasizing the Hamilton geometry

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