Quantum Theory: Concepts and Methods

by

Asher Peres
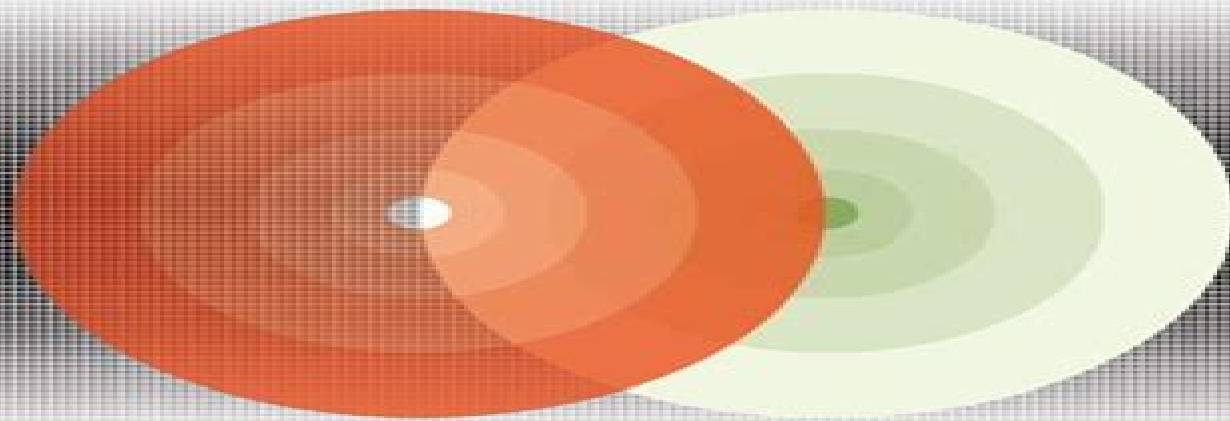
Fundamental Theories of Physics

Quantum Theory Concepts And Methods

PT Brinkman

Quantum Theory Concepts And Methods:

    Quantum Theory: Concepts and Methods Asher Peres,1995-09-30 This book will be useful to anyone who wants to understand the use of quantum theory for the description of physical processes It is a graduate level text ideal for independent study and includes numerous figures exercises bibliographical references and even some computer programs The first chapters introduce formal tools the mathematics are precise but not excessively abstract The physical interpretation too is rigorous It makes no use of the uncertainty principle of other ill defined notions The central part of the book is devoted to Bell s theorem and to the Kochen Specker theorem It is here that quantum phenomena depart most radically from classical physics There has recently been considerable progress on these issues and the latest developments have been included The final chapters discuss further topics of current research spacetime symmetries quantum thermodynamics and information theory semiclassical methods irreversibility quantum chaos and especially the measuring process In particular it is shown how modern techniques allow the extraction of more information from a physical system than traditional measurement methods For physicists mathematicians and philosophers of science with an interest in the applications and foundations of quantum theory The volume is suitable as a supplementary graduate textbook   *Quantum Theory* A. Peres,2014-01-15

    Quantum Theory: Concepts and Methods A. Peres,2006-06-01 There are many excellent books on quantum theory from which one can learn to compute energy levels transition rates cross sections etc The theoretical rules given in these books are routinely used by physicists to compute observable quantities Their predictions can then be compared with experimental data There is no fundamental disagreement among physicists on how to use the theory for these practical purposes However there are profound differences in their opinions on the ontological meaning of quantum theory The purpose of this book is to clarify the conceptual meaning of quantum theory and to explain some of the mathematical methods which it utilizes This text is not concerned with specialized topics such as atomic structure or strong or weak interactions but with the very foundations of the theory This is not however a book on the philosophy of science The approach is pragmatic and strictly instrumentalist This attitude will undoubtedly antagonize some readers but it has its own logic quantum phenomena do not occur in a Hilbert space they occur in a laboratory   **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 disproval 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 **Precisely Predictable Dirac Observables** Heinz Otto Cordes,2007-01-10 In this book we are attempting to o er a modi cation of Dirac s theory of the electron we believe to be free of the usual paradoxa 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 E stein s theory of gravitation o ers 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 1 us focus on 3 di erent wave equations I The Klein Gordon equation 3 2 2 2 2 1 t 1 0 Laplacian x j 1 This equation may be written as 2 t i 1 t i 1 0 Hereitmaybenotedthattheoperator1 hasawellde nedpositive square root as unbounded self adjoint positive operator of the Hilbert 2 3 spaceH L R *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 **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 **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 Finslerian Geometries P.L. Antonelli,2012-12-06 The International Conference on Finsler and Lagrange Geometry and its Applications A Meeting of Minds took place August 13 20 1998 at the University of Alberta in Edmonton Canada The main objective of this meeting was to help acquaint North American geometers with the extensive modern literature on Finsler geometry and Lagrange geometry of the Japanese and European schools each with its own venerable

history on the one hand and to communicate recent advances in stochastic theory and Hodge theory for Finsler manifolds by the younger North American school on the other The intent was to bring together practitioners of these schools of thought in a Canadian venue where there would be ample opportunity to exchange information and have cordial personal interactions The present set of refereed papers begins with the Pedagogical Sec tion I where introductory and brief survey articles are presented one from the Japanese School and two from the European School Romania and Hungary These have been prepared for non experts with the intent of explaining basic points of view The Section III is the main body of work It is arranged in alphabetical order by author Section II gives a brief account of each of these contribu tions with a short reference list at the end More extensive references are given in the individual articles   The Structure of Physics Carl F. von Weizsäcker,2007-01-15 Carl Friedrich von Weizs cker s Aufbau der Physik first published in 1985 was intended as an overview of his lifelong concern an understanding of the unity of physics That is the idea of a quantum theory of binary alternatives the so called ur theory a unified quantum theoretical framework in which spinorial symmetry groups are considered to give rise to the structure of space and time The book saw numerous reprints but it was published in German only The present edition in English provides a newly arranged and revised version in which some original chapters and sections have been deleted and a new chapter about further insights and results of ur theoretic research of the late 1980 s and 1990 s mainly by the work of Thomas G rnitz has been included as well as a general introduction to Weizs cker s Philosophy of Physics Carl Friedrich von Weizs cker also enjoys high esteem by a much broader audience for his socio cultural political and religious thoughts and writings In him the intercultural and interdisciplinary dialogue has found one of its most important proponents a great thinker who combines the perspectives of science philosophy religion and politics with a view towards the challenges as well as the responsibilities of our time Original title Aufbau der Physik Carl Friedrich von Weizs cker Carl Hanser Verlag M nchen Wien 1985   *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   *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 **Cosmological Pattern of Microphysics in the Inflationary Universe** Maxim Y. Khlopov,Sergei G. Rubin,2013-03-20 Modern cosmology is a quickly developing eld 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 t oretical models that are based on hypothetical predictions of particle theory In their turn such predictions imply cosmology for their probe Speci c st ies 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 fering 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 rmly established system of probes for these ideas linking their predictions to their possible experimental test We use the framework of in ationary 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 uctuations in creation of our Universe and in possible features re ecting cosmological impact of microphysics is discussed These features are shown to be accessible to perimental test in the near future **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 math ematicians E Cartan L Berwald S S Chem H Rund had the patience to penetrate into a universe of tensors which made them compare it to a jungle To aU 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 SZ4 and by work skills into its adapted frame fields The results obtained by M Matsumoto coUected later in 1986 in a monograph Ma3 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 Statistical Geometry and Applications to Microphysics and Cosmology S. Roy,2012-12-06 Recent results from high energy scattering and theoretical developments of string theory require a change in our understanding of the basic structure of space time This book is about the advancement of ideas on the stochastic nature of space time from the 1930s onward In particular the author promotes the concept of space as a set of hazy lumps first introduced by Karl Menger and constructs a novel framework for statistical behaviour at the microlevel The various chapters address topics such as space time fluctuation and random potential non local fields and the origin of stochasticity Implications in astro particle physics and cosmology are also explored Audience This volume will be of interest to physicists

chemists and mathematicians involved in particle physics astrophysics and cosmology   Classical Statistical Mechanics
G.A. Martynov,2012-12-06 Statistical mechanics deals with systems in which chaos and randomness reign supreme The
current theory is therefore firmly based on the equations of classical mechanics and the postulates of probability theory This
volume seeks to present a unified account of classical mechanical statistics rather than a collection of unconnected reviews
on recent results To help achieve this one element is emphasised which integrates various parts of the prevailing theory into
a coherent whole This is the hierarchy of the BBGKY equations which enables a relationship to be established between the
Gibbs theory the liquid theory and the theory of nonequilibrium phenomena As the main focus is on the complex theoretical
subject matter attention to applications is kept to a minimum The book is divided into three parts The first part describes the
fundamentals of the theory embracing chaos in dynamic systems and distribution functions of dynamic systems
Thermodynamic equilibrium dealing with Gibbs statistical mechanics and the statistical mechanics of liquids forms the
second part Lastly the third part concentrates on kinetics and the theory of nonequilibrium gases and liquids in particular
Audience This book will be of interest to graduate students and researchers whose work involves thermophysics theory of
surface phenomena theory of chemical reactions physical chemistry and biophysics   *The Geometry of Lagrange Spaces:
Theory and Applications* R. Miron,Mihai Anastasiei,2012-12-06 Differential geometric methods are gaining increasing
importance in the understanding of a wide range of fundamental natural phenomena Very often the starting point for such
studies is a variational problem formulated for a convenient Lagrangian From a formal point of view a Lagrangian is a
smooth real function defined on the total space of the tangent bundle to a manifold satisfying some regularity conditions The
main purpose of this book is to present a an extensive discussion of the geometry of the total space of a vector bundle b a
detailed exposition of Lagrange geometry and c a description of the most important applications New methods are described
for construction geometrical models for applications The various chapters consider topics such as fibre and vector bundles
the Einstein equations generalized Einstein Yang Mills equations the geometry of the total space of a tangent bundle Finsler
and Lagrange spaces relativistic geometrical optics and the geometry of time dependent Lagrangians Prerequisites for using
the book are a good foundation in general manifold theory and a general background in geometrical models in physics For
mathematical physicists and applied mathematicians interested in the theory and applications of differential geometric
methods   **Black Holes, Gravitational Radiation and the Universe** B.R. Iyer,B. Bhawal,2013-06-29 Our esteemed
colleague C V Vishveshwara popularly known as Vishu turned sixty on 6th March 1998 His colleagues and well wishers felt
that it would be appropriate to celebrate the occasion by bringing out a volume in his honour Those of us who have had the
good fortune to know Vishu know that he is unique in a class by himself Having been given the privilege to be the volume s
editors we felt that we should attempt something different in this endeavour Vishu is one of the well known relativists from
India whose pioneer ing contributions to the studies of black holes is universally recognised He was a student of Charles

Misner His Ph D thesis on the stability of the Schwarzschild black hole coordinate invariant characterisation of the sta tionary limit and event horizon for Kerr black holes and subsequent seminal work on quasi normal modes of black holes have passed on to become the starting points for detailed mathematical investigations on the nature of black holes He later worked on other aspects related to black holes and compact objects Many of these topics have matured over the last thirty years New facets have also developed and become current areas of vigorous research interest No longer are black holes ultracompact objects or event horizons mere idealisations of mathematical physicists but concrete entities that astrophysicists detect measure and look for Astrophysical evidence is mounting up steadily for black holes   **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 Ge V per nucleon the composition of nuclear matter changes nucleons being gradually turned into baryonic resonances of various kinds Finally when 3 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 RRIC 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   **Causality and Locality in Modern Physics** G. Hunter,Stanley Jeffers,J.P. Vigier,2013-06-29 The Symposium entitled Causality and Locality in Modern Physics and As tronomy Open Questions and Possible Solutions was held at York University Toronto during the last week of August 1997 It was a sequel to a similar sym posium entitled The Present Status of the Quantum Theory of Light held at the same venue in August 1995 These symposia came about as a result of discussions between Professor Stanley Jeffers and colleagues on the International Organizing Committee Professor Jeffers was the executive local organizer of the symposia The 1997 symposium attracted over 120 participants representing 26 different countries and academic institutions The broad theme of both symposia was the enigma of modern physics the non local and possibly superluminal interactions implied by quantum mechanics the structure of fundamental particles including the photon the reconciliation of quantum mechanics with the theory of relativity and the nature of gravity and inertia Jean Pierre Vigier was the guest of honour at both symposia He was a lively contributor to the discussions of the presentations The presentations were made as 30 minute lectures or during an

evening poster session Some participants did not submit a written account of their presentation at the symposium and not all of the articles submitted for the Proceedings could be included because of the publisher s page limit The titles and authors of the papers that had to be excluded are listed in an appendix

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