



Quantum Mechanics In Curved Space Time

Stephen A. Fulling



Quantum Mechanics In Curved Space Time:

Quantum Mechanics in Curved Space-Time Jurgen Audretsch,V. de Sabbata,2012-12-06 Quantum mechanics and quantum field theory on one hand and Gravity as a theory of curved space time on the other are the two great conceptual schemes of modern theoretical physics For many decades they have lived peacefully together for a simple reason it was a coexistence without much interaction There has been the family of relativists and the other family of elementary particle physicists and both sides have been convinced that their problems have not very much to do with the problems of the respective other side This was a situation which could not last forever because the two theoretical schemes have a particular structural trait in common their claim for totality and universality Namely on one hand all physical theories have to be formulated in a quantum mechanical manner and on the other hand gravity as curved space time influences all processes and vice versa It was therefore only a question of time that physically relevant domains of application would attract a general interest which demand a combined application of both theoretical schemes But it is immediately obvious that such an application of both schemes is possible if the schemes are taken as they are Something new is needed which reconciles gravity and quantum mechanics During the last two decades we are now doing the first steps towards this more general theory and we are confronted with fundamental difficulties Aspects of Quantum Field Theory in Curved Spacetime Stephen A.

Fulling,1989-08-24 The theory of quantum fields on curved spacetimes has attracted great attention since the discovery by Stephen Hawking of black hole evaporation It remains an important subject for the understanding of such contemporary topics as inflationary cosmology quantum gravity and superstring theory This book provides for mathematicians an introduction to this field of physics in a language and from a viewpoint which such a reader should find congenial Physicists should also gain from reading this book a sound grasp of various aspects of the theory some of which have not been particularly emphasised in the existing review literature The topics covered include normal mode expansions for a general elliptic operator Fock space the Casimir effect the Klein paradox particle definition and particle creation in expanding universes asymptotic expansion of Green's functions and heat kernels and renormalisation of the stress tensor The style is pedagogic rather than formal some knowledge of general relativity and differential geometry is assumed but the author does supply background material on functional analysis and quantum field theory as required The book arose from a course taught to graduate students and could be used for self study or for advanced courses in relativity and quantum field theory

Quantum Field Theory in Curved Spacetime Leonard Parker,David Toms,2009-08-20 Quantum field theory in curved spacetime has been remarkably fruitful It can be used to explain how the large scale structure of the universe and the anisotropies of the cosmic background radiation that we observe today first arose Similarly it provides a deep connection between general relativity thermodynamics and quantum field theory This book develops quantum field theory in curved spacetime in a pedagogical style suitable for graduate students The authors present detailed physically motivated derivations

of cosmological and black hole processes in which curved spacetime plays a key role They explain how such processes in the rapidly expanding early universe leave observable consequences today and how in the context of evaporating black holes these processes uncover deep connections between gravitation and elementary particles The authors also lucidly describe many other aspects of free and interacting quantized fields in curved spacetime Quantum Fields in Curved Space N. D. Birrell, P. C. W. Davies, 1984-02-23 Identifies information sources and shows how to develop a job search strategy Gives valuable advice on job interviews and on how a new employee can keep his job

Quantum Field Theory in Curved Spacetime and Black Hole Thermodynamics Robert M. Wald, 1994-11-15 In this book Robert Wald provides a coherent pedagogical introduction to the formulation of quantum field theory in curved spacetime He begins with a treatment of the ordinary one dimensional quantum harmonic oscillator progresses through the construction of quantum field theory in flat spacetime to possible constructions of quantum field theory in curved spacetime and ultimately to an algebraic formulation of the theory In his presentation Wald disentangles essential features of the theory from inessential ones such as a particle interpretation and clarifies relationships between various approaches to the formulation of the theory He also provides a comprehensive up to date account of the Unruh effect the Hawking effect and some of its ramifications In particular the subject of black hole thermodynamics which remains an active area of research is treated in depth This book will be accessible to students and researchers who have had introductory courses in general relativity and quantum field theory and will be of interest to scientists in general relativity and related fields

The Dirac Equation in Curved Spacetime Peter Collas, David Klein, 2019-03-21 This book explains and develops the Dirac equation in the context of general relativistic quantum mechanics in a range of spacetime dimensions It clarifies the subject by carefully pointing out the various conventions used and explaining how they are related to each other The prerequisites are familiarity with general relativity and an exposure to the Dirac equation at the level of special relativistic quantum mechanics but a review of this latter topic is given in the first chapter as a reference and framework for the physical interpretations that follow Worked examples and exercises with solutions are provided Appendices include reviews of topics used in the body of the text This book should benefit researchers and graduate students in general relativity and in condensed matter

Aspects of Quantum Field Theory in Curved Space-time Stephen A. Fulling, 1989 The theory of quantum fields on curved spacetimes has attracted great attention since the discovery by Stephen Hawking of black hole evaporation It remains an important subject for the understanding of such contemporary topics as inflationary cosmology quantum gravity and superstring theory This book provides for mathematicians an introduction to this field of physics in a language and from a viewpoint which such a reader should find congenial Physicists should also gain from reading this book a sound grasp of various aspects of the theory some of which have not been particularly emphasised in the existing review literature The topics covered include normal mode expansions for a general elliptic operator Fock space the Casimir effect the Klein paradox particle definition and particle

creation in expanding universes asymptotic expansion of Green's functions and heat kernels and renormalisation of the stress tensor The style is pedagogic rather than formal some knowledge of general relativity and differential geometry is assumed but the author does supply background material on functional analysis and quantum field theory as required The book arose from a course taught to graduate students and could be used for self study or for advanced courses in relativity and quantum field theory

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Quantum Field Theory in Curved Spacetime Leonard Emanuel Parker, David J. Toms, 2014-05-14 Suitable for graduate students this book develops quantum field theory in curved spacetime in a pedagogical style

Issues with First Quantization Quantum Mechanics on Curved Space-times Aaron Cholden-Brown, 2016

Qubits and Spacetime Caslav Brukner, Jakub Mielczarek, Daniele Oriti, 2022-08-30

Spacetime and Geometry Sean M. Carroll, 2019-08-08

Spacetime and Geometry is an introductory textbook on general relativity specifically aimed at students Using a lucid style Carroll first covers the foundations of the theory and mathematical formalism providing an approachable introduction to what can often be an intimidating subject Three major applications of general relativity are then discussed black holes perturbation theory and gravitational waves and cosmology Students will learn the origin of how spacetime curves the Einstein equation and how matter moves through it the geodesic equation They will learn what black holes really are how gravitational waves are generated and detected and the modern view of the expansion of the universe A brief introduction to quantum field theory in curved spacetime is also included A student familiar with this book will be ready to tackle research level problems in gravitational physics

Relativity in Curved Spacetime Eric Baird, 2007 Relativity theory has become one of the icons of Twentieth Century science It's reckoned to be a difficult subject taught as a layered series of increasingly difficult mathematics and increasingly abstract concepts We're told that relativity theory is supposed to be this complicated and counter intuitive But how much of this historical complexity is really necessary Can we bypass the interpretations and paradoxes and pseudoparadoxes of Einstein's special theory and jump directly to a deeper and more intuitive description of reality What if curvature is a fundamental part of physics and a final theory of relativity shouldn't reduce to Einstein's flat 1905 theory on principle Relativity takes us on a whistlestop tour of Twentieth Century physics from black holes quantum mechanics wormholes and the Big Bang to the workings of the human mind and asks what would physics look like without

special relativity 394 printed pages 234x156 mm 200 figures and illustrations includes bibliography and index www.relativitybook.com **Recent Developments in General Relativity, Genoa 2000** R. Cianci, R. Collina, M. Francaviglia, P. Fre, 2013-04-17 A survey of the most recent developments in general relativity and in the theory of the unification of Fundamental Interactions is presented in this book The theoretical results the cosmological and astrophysical aspects the experimental and observational programs are shown in 26 general talks by renowned scientists active in this field

Quantum Field Theory on Curved Spacetimes Christian Bär, Klaus Fredenhagen, 2009-09-18 After some decades of work a satisfactory theory of quantum gravity is still not available moreover there are indications that the original field theoretical approach may be better suited than originally expected There to first approximation one is left with the problem of quantum field theory on Lorentzian manifolds Surprisingly this seemingly modest approach leads to far reaching conceptual and mathematical problems and to spectacular predictions the most famous one being the Hawking radiation of black holes Ingredients of this approach are the formulation of quantum physics in terms of C algebras the geometry of Lorentzian manifolds in particular their causal structure and linear hyperbolic differential equations where the well posedness of the Cauchy problem plays a distinguished role as well as more recently the insights from suitable concepts such as microlocal analysis This primer is an outgrowth of a compact course given by the editors and contributing authors to an audience of advanced graduate students and young researchers in the field and assumes working knowledge of differential geometry and functional analysis on the part of the reader **The de Sitter (dS) Group and Its Representations**

Mohammad Enayati, Jean-Pierre Gazeau, Hamed Pejhan, Anzhong Wang, 2024-04-29 This Second Edition is a comprehensive update integrating the latest research and theoretical advancements in the field of de Sitter dS group representations Building on the success of the first edition the book offers a more in depth analysis of mathematical aspects conceptual foundations and practical implications related to the dS group including its Lie manifold Lie algebra and co adjoint orbits viewing the latter as potential classical elementary systems within the context of dS spacetime Additionally the examination of unitary irreducible representations UIRs sheds light on the potential existence of quantum elementary systems within the dS spacetime framework The authors emphasize consistency with Wigner s approach to elementary systems incorporate Wigner s principles and exploring projective UIRs of the dS group and provide a deeper insight into the nature of dS elementary systems Particular attention is paid to the smooth transition from classical to quantum theory the physical content under vanishing curvature and the thermal interpretation from a quantum perspective The book also focuses on the physical interpretation of elementary systems in curved spacetimes recognizing the limitations of traditional concepts derived from flat Minkowski spacetime and the Poincaré group Primordial Cosmology Patrick Peter, Jean-Philippe Uzan, 2013-02-14 This book provides an extensive survey of all the physics necessary to understand the current developments in the field of fundamental cosmology as well as an overview of the observational data and methods It will help students to

get into research by providing definitions and main techniques and ideas discussed today The book is divided into three parts Part 1 summarises the fundamentals in theoretical physics needed in cosmology general relativity field theory particle physics Part 2 describes the standard model of cosmology and includes cosmological solutions of Einstein equations the hot big bang model cosmological perturbation theory cosmic microwave background anisotropies lensing and evidence for dark matter and inflation Part 3 describes extensions of this model and opens up current research in the field scalar tensor theories supersymmetry the cosmological constant problem and acceleration of the universe topology of the universe grand unification and baryogenesis topological defects and phase transitions string inspired cosmology including branes and the latest developments The book provides details of all derivations and leads the student up to the level of research articles

Gravitation, Cosmology, and Cosmic-Ray Physics National Research Council, Board on Physics and Astronomy, Physics Survey Committee, Panel on Gravitation, Cosmology, and Cosmic-Ray Physics, 1986-02-01 Constructive Axiomatics for Spacetime Physics Emily Adlam, Niels Linnemann, James Read, 2025-06-25 The programme of constructive axiomatics promulgated by Hans Reichenbach in 1924 seeks to build up the architecture of our best theories of physics from basic axioms supposedly imbued with immediate and indubitable empirical content Taking inspiration from Reichenbach Hermann Weyl proposed his own causal inertial approach to the constructive axiomatization of Einstein's general relativity according to which a relativistic spacetime can be constructed solely from the trajectories of light rays and freely falling particles this project however came to fruition only in 1972 with the constructive axiomatization of general relativity due to Ehlers Pirani and Schild EPS One century since Reichenbach and fifty years since EPS Constructive Axiomatics for Spacetime Physics is a celebration of the constructive axiomatic methodology It achieves four main tasks First it provides a thoroughgoing presentation of the EPS axiomatization closing missing loopholes identifying problematic axioms and so forth in this way one gains a much improved appreciation of the extent to which a causal inertial approach to general relativity might succeed and of what such an approach might offer Second it synthesizes and assesses the vast but disparate literature on constructive axiomatics which has arisen over the past century and sets the methodology in its proper philosophical context Third it generalizes the approach to apply to quantum spacetimes And fourth it applies the approach to the context of non relativistic spacetime physics All in all the book demonstrates that constructive axiomatics is live and kicking the book will become the go to resource for this way of philosophizing about the nature of space and time *Instantaneous Action at a Distance in Modern Physics* Andrew E. Chubykalo, Pope, Viv, Roman Smirnov-Rueda, 1999 The so far unanswered question of whether the movements of distance separated objects are correlated in the way quantum physics requires or whether according to Einstein they can influence one another only by mechanical agencies travelling between them at speeds limited to that of light It is to that still unanswered question that this present compilation of papers is addressed The editorial approach is unusual in that in order to break the current conceptual deadlock and to encourage true innovation they have solicited inputs

which are multidisciplinary This open ended venture is therefore perhaps more in line with what was once called Natural Philosophy than with what is currently known as Physics This is something of a departure for those who say that Physics no longer has anything to do with Philosophy For there are physicists who believe that their predecessors have accomplished all the really important conceptual work on interpreting natural phenomena so that there is no longer any call for radical revision in that direction This leads to a constricted form of the discipline in which the purpose of all observation and experimentation is seen as simply to collect more and more information and fit it to conceptions which are traditionally cut and dried The emphasis is thus on presenting informed and carefully considered descriptions of natural phenomena economizing as far as possible on interpretations in terms of entities which turn out to be no more than speculative

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