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Editors

LECTURE NOTES IN PHYSICS 807

New Paths Towards Quantum Gravity



Springer

New Paths Towards Quantum Gravity Lecture Notes In Physics

Raffaela Di Napoli



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Aside from the obvious statement that it should be a theory capable of unifying general relativity and quantum field theory not much is known about the true nature of quantum gravity New ideas and there are many of them for this is an exciting field of research often diverge to a degree where it seems impossible to decide in which of the many possible directions the ongoing developments should be further sustained The division of the book in two overlapping parts reflects the duality between the physical vision and the mathematical construction The former is represented by tutorial reviews on non commutative geometry on space time discretization and renormalization and on gauge field path integrals The latter one by lectures on cohomology on stochastic geometry and on mathematical tools for the effective action in quantum gravity The book will benefit everyone working or entering the field of quantum gravity research

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Quantum Gravity Claus Kiefer, 2012-04-05
The search for a quantum theory of the gravitational field is one of the great open problems in theoretical physics This book presents a self contained discussion of the concepts methods and applications that can be expected in such a theory The two main approaches to its construction the direct quantisation of Einstein's

general theory of relativity and string theory are covered Whereas the first attempts to construct a viable theory for the gravitational field alone string theory assumes that a quantum theory of gravity will be achieved only through a unification of all the interactions However both employ the general method of quantization of constrained systems which is described together with illustrative examples relevant for quantum gravity There is a detailed presentation of the main approaches employed in quantum general relativity path integral quantization the background field method and canonical quantum gravity in the metric connection and loop formulations The discussion of string theory centres around its quantum gravitational aspects and the comparison with quantum general relativity Physical applications discussed at length include the quantization of black holes quantum cosmology the indications of a discrete structure of spacetime and the origin of irreversibility This third edition contains new chapters or sections on quantum gravity phenomenology Horava Lifshitz quantum gravity analogue gravity the holographic principle and affine quantum gravity It will present updates on loop quantum cosmology the LTB model asymptotic safety and various discrete approaches The third edition also contains pedagogical extensions throughout the text This book will be of interest to researchers and students working in relativity and gravitation cosmology quantum field theory and related topics It will also be of interest to mathematicians and philosophers of science

Springer Handbook of Spacetime Abhay Ashtekar, Vesselin Petkov, 2014-09-01 The Springer Handbook of Spacetime is dedicated to the ground breaking paradigm shifts embodied in the two relativity theories and describes in detail the profound reshaping of physical sciences they ushered in It includes in a single volume chapters on foundations on the underlying mathematics on physical and astrophysical implications experimental evidence and cosmological predictions as well as chapters on efforts to unify general relativity and quantum physics The Handbook can be used as a desk reference by researchers in a wide variety of fields not only by specialists in relativity but also by researchers in related areas that either grew out of or are deeply influenced by the two relativity theories cosmology astronomy and astrophysics high energy physics quantum field theory mathematics and philosophy of science It should also serve as a valuable resource for graduate students and young researchers entering these areas and for instructors who teach courses on these subjects The Handbook is divided into six parts Part A Introduction to Spacetime Structure Part B Foundational Issues Part C Spacetime Structure and Mathematics Part D Confronting Relativity theories with observations Part E General relativity and the universe Part F Spacetime beyond Einstein

Path Integrals in Quantum Mechanics, Statistics, Polymer Physics, and Financial Markets Hagen Kleinert, 2006 This is the fourth expanded edition of the comprehensive textbook published in 1990 on the theory and applications of path integrals It is the first book to explicitly solve path integrals of a wide variety of nontrivial quantum mechanical systems in particular the hydrogen atom The solutions have become possible by two major advances The first is a new euclidean path integral formula which increases the restricted range of applicability of Feynman's famous formula to include singular attractive $1/r$ and $1/r^2$ potentials The second is a simple quantum equivalence principle governing

the transformation of euclidean path integrals to spaces with curvature and torsion which leads to time sliced path integrals that are manifestly invariant under coordinate transformations In addition to the time sliced definition the author gives a perturbative definition of path integrals which makes them invariant under coordinate transformations A consistent implementation of this property leads to an extension of the theory of generalized functions by defining uniquely integrals over products of distributions The powerful Feynman Kleinert variational approach is explained and developed systematically into a variational perturbation theory which in contrast to ordinary perturbation theory produces convergent expansions The convergence is uniform from weak to strong couplings opening a way to precise approximate evaluations of analytically unsolvable path integrals Tunneling processes are treated in detail The results are used to determine the lifetime of supercurrents the stability of metastable thermodynamic phases and the large order behavior of perturbation expansions A new variational treatment extends the range of validity of previous tunneling theories from large to small barriers A corresponding extension of large order perturbation theory also applies now to small orders Special attention is devoted to path integrals with topological restrictions These are relevant to the understanding of the statistical properties of elementary particles and the entanglement phenomena in polymer physics and biophysics The Chern Simons theory of particles with fractional statistics anyons is introduced and applied to explain the fractional quantum Hall effect The relevance of path integrals to financial markets is discussed and improvements of the famous Black Scholes formula for option prices are given which account for the fact that large market fluctuations occur much more frequently than in the commonly used Gaussian distributions The author's other book on Critical Properties of 4 Theories gives a thorough introduction to the field of critical phenomena and develops new powerful resummation techniques for the extraction of physical results from the divergent perturbation expansions

Encyclopedia of Mathematical Physics Jean-Pierre Francoise, Gregory L. Naber, Tsou Sheung Tsun, 2006-06-20 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher's own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing

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Women in Chemistry and Physics Louise S. Grinstein, Rose K. Rose, Miriam Rafailovich, 1993-10-25 No other sourcebook to date chronicles women's contributions to chemistry and physics with such interest and depth Highly recommended RQ

Handbook of Feynman Path Integrals Christian Grosche, Frank Steiner, 1998-06-22 The Handbook of Feynman Path Integrals appears just fifty years after Richard Feynman published his pioneering paper in 1948 entitled Space Time Approach to Non Relativistic Quantum Mechanics in which he introduced his new formulation of quantum mechanics in terms of path integrals The book presents for the first time a comprehensive table of Feynman path integrals together with an extensive list of references it will serve the reader as a thorough introduction to the theory of path integrals As a reference book it is unique in its scope and will be essential for many physicists chemists and mathematicians working in different areas of research

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