

EFFECTIVE ACTION IN QUANTUM GRAVITY

I. L. BUCHBINDER S. D. ODINTSOV I. L. SHAPIRO



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Effective Action In Quantum Gravity

Ken-ji Hamada



Effective Action In Quantum Gravity:

Effective Action in Quantum Gravity I.L Buchbinder,S Odintsov,L Shapiro,1992-01-01 In part one of Effective Action in Quantum Gravity the book describes the principles of quantum field theory and the significance of and theory behind effective action Part two deals with quantum field theory in curved space time and the effective action These two parts provide the tools for understanding the rest of the book which is devoted to selected problems of quantum gravity where the effective action plays a major role The book assumes only a basic understanding of quantum field theory and general relativity and will be of interest to postgraduate students and researchers in theoretical high energy physics and gravitational theory *The Regular Effective Action of Gauge Field Theory and Quantum Gravity* Nazir S. Baaklini,1986 [The](#)
[Vilkovisky-DeWitt Effective Action for Quantum Gravity](#) Gabor Kunstatter,S.R. Huggins,1987 **Heat Kernel and**

Quantum Gravity Ivan G. Avramidi,2003-07-01 This book tackles quantum gravity via the so called background field method and its effective action functional The author presents an explicitly covariant and effective technique to calculate the de Witt coefficients and to analyze the Schwinger de Wit asymptotic expansion of the effective action He also investigates the ultraviolet behaviour of higher derivative quantum gravity The book addresses theoretical physicists graduate students as well as researchers but should also be of interest to physicists working in mathematical or elementary particle physics

New Paths Towards Quantum Gravity Bernhelm Booß-Bavnbek,Maria Rosaria D'Esposito,Matthias Lesch,2010-06-04 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 direction s 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 **New Paths Towards Quantum Gravity** Bernhelm Booß-Bavnbek,Maria Rosaria D'Esposito,Matthias Lesch,2011-11-23 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 direction s 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

Coarse Graining in Quantum Gravity: Bridging the Gap between Microscopic Models and Spacetime-Physics Astrid Eichhorn,Benjamin Bahr,Antonio D. Pereira,2021-07-15 *Non*

Minimal String Corrections to Supergravity Dermot O'Reilly,2006

1st Karl Schwarzschild Meeting on Gravitational Physics Piero Nicolini,Matthias Kaminski,Jonas Mureika,Marcus Bleicher,2015-10-28 These proceedings collect the selected contributions of participants of the First Karl Schwarzschild Meeting on Gravitational Physics held in Frankfurt Germany to celebrate the 140th anniversary of Schwarzschild's birth They are grouped into 4 main themes I The Life and Work of Karl Schwarzschild II Black Holes in Classical General Relativity Numerical Relativity Astrophysics Cosmology and Alternative Theories of Gravity III Black Holes in Quantum Gravity and String Theory IV Other Topics in Contemporary Gravitation Inspired by the foundational principle By acknowledging the past we open a route to the future the week long meeting envisioned as a forum for exchange between scientists from all locations and levels of education drew participants from 15 countries across 4 continents In addition to plenary talks from leading researchers a special focus on young talent was provided a feature underlined by the Springer Prize for the best student and junior presentations

Gravity and the Quantum Jasjeet Singh Bagla,Sunu Engineer,2017-02-23 This book provides a compilation of in depth articles and reviews on key topics within gravitation cosmology and related issues It is a celebratory volume dedicated to Prof Thanu Padmanabhan Paddy the renowned relativist and cosmologist from IUCAA India on the occasion of his 60th birthday The authors many of them leaders of their fields are all colleagues collaborators and former students of Paddy who have worked with him over a research career spanning more than four decades Paddy is a scientist of diverse interests who attaches great importance to teaching With this in mind the aim of this compilation is to provide an accessible pedagogic introduction to and overview of various important topics in cosmology gravitation and astrophysics As such it will be an invaluable resource for scientists graduate students and also advanced undergraduates seeking to broaden their horizons

Literature 1992, Part 1 Astronomisches Recheninstitut,2013-11-11 Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world

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 **Quantum**

Gravity Moiseĭ Aleksandrovich Markov, Peter C. West, 1984-03 Three years have passed after the First Moscow Seminar on Quantum Gravity It is a rather long time interval for the modern theoretical physics The talks given at the present Second Seminar which took place in October 13 15 1981 in Moscow contain the discussion of new results obtained during this period and the problems which arose More than one hundred Soviet scientists and a number of the foreign guests attended this Seminar which as the previous one was held by the Nuclear Physics Department of the Academy of Sciences of the USSR and the Institute for Nuclear Research of the Academy of Sciences of the USSR The aim of the Seminar was to discuss the most important problems of the modern Quantum Gravity namely i Quantum Gravity the state of art ii Quantum effects in Cosmology iii Quantum black hole physics iv the recent development in Supergravity and v Quantum Gauge Theories The Editorial Board expresses its sincere gratitude to all physicists who have contributed to these Proceedings for their cooperation with the Board in respect of time limitation accurate and patient fulfilment of all tiresome requirements set by the Board The talks in the Proceedings are arranged in sections in accordance with their presentation at the Seminar

Introduction to Quantum Field Theory with Applications to Quantum Gravity Iosif L. Buchbinder, Ilya Shapiro, 2021 This textbook presents a detailed introduction to the general concepts of quantum field theory with special emphasis on principal aspects of functional methods and renormalization in gauge theories and includes an introduction to semiclassical and perturbative quantum gravity in flat and curved spacetimes **Constrained Dynamics and Quantum Gravity 1999**

Vittorio De Alfaro, 2000 **Euclidean Quantum Gravity on Manifolds with Boundary** Maria Rosaria D'Esposito, A.Yu. Kamenshchik, G. Pollifrone, 1997-03-31 This book reflects our own struggle to understand the semiclassical behaviour of quantized fields in the presence of boundaries Along many years motivated by the problems of quantum cosmology and quantum field theory we have studied in detail the one loop properties of massless spin 1 2 fields Euclidean Maxwell the ory gravitino potentials and Euclidean quantum gravity Hence our book begins with a review of the physical and mathematical motivations for studying physical theories in the presence of boundaries with emphasis on electrostatics vacuum v Maxwell theory and quantum cosmology We then study the Feynman propagator in Minkowski space time and in curved space time In

the latter case the corresponding Schwinger DeWitt asymptotic expansion is given The following chapters are devoted to the standard theory of the effective action and the geometric improvement due to Vilkovisky the manifestly covariant quantization of gauge fields zeta function regularization in mathematics and in quantum field theory and the problem of boundary conditions in one loop quantum theory For this purpose we study in detail Dirichlet Neumann and Robin boundary conditions for scalar fields local and non local boundary conditions for massless spin 1 2 fields mixed boundary conditions for gauge fields and gravitation This is the content of Part I Part II presents our investigations of Euclidean Maxwell theory simple super gravity and Euclidean quantum gravity

Quantum Theory of Gravity, Essays in Honor of the 60th Birthday of Bryce C DeWitt Bryce Seligman DeWitt, 1984 The 33 essays in this volume together provide a valuable overview of the progress towards a theory of quantum gravity and offer succinct treatment of quantum field theory in curved space times supergravity cosmology black holes quantum geometry supersymmetry and related phenomena

Quantum Gravity Claus Kiefer, 2004 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 quantization 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 centers 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 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

Quantum Gravity and Cosmology Based on Conformal Field Theory Ken-ji Hamada, 2019-01-18 What is the world beyond the Planck scale that provides the minimum unit of the universe The goal of quantum gravity is to reveal physical laws in such a world There quantum fluctuations of gravity become large and what is called a background free world where the concept of time and distance is lost shall be realized The renormalizable quantum gravity introduced in this book offers a theory in which such a world is described by a certain conformal field theory and a deviation from there is handled as a perturbation This is the state of the art of modern physics that will help in understanding the history of the universe from its birth to the present

Are We There Yet? The Search for a Theory of Everything Moataz H. Emam, 2011-03-25 We live in exciting times the frontiers of

physics have been pushed to unprecedented horizons the Holy Grail of fundamental physics research today is to find and describe a theory that explains at least in principle all physical phenomena which in turns explains chemistry biology and other material sciences This however is not without controversy the current candidate for such a theory is known as string or superstring theory It suffers from the problem of being a purely mathematical science with no experimental backing and belief in it has been criticized as bordering on faith as opposed to scientific scrutiny On the other hand the recent switching on of our most advanced experimental tool the Large Hadron Collider in Switzerland gives new hope in our search for clues as to what the universe is made of on a fundamental level What happened exactly on or even before the Big Bang Where are we coming from and where are we going Questions that have never been addressed before by physicists the game is afoot and the search is on This book contains articles by leading physicists describing the current situation Among them are proponents as well as opponents of string theory proponents of other ideas and experimentalists

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