



# Quantum Gravity

**Carlo Rovelli**



## Quantum Gravity:

**Quantum Gravity** Carlo Rovelli, 2004-11-15 Publisher Description *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 *Quantum Gravity* Domenico J. W. Giulini, Claus Kiefer, Claus Lämmerzahl, 2003-09-16 The relation between quantum theory and the theory of gravitation remains one of the most outstanding unresolved issues of modern physics According to general expectation general relativity as well as quantum field theory in a fixed background spacetime cannot be fundamentally correct Hence there should exist a broader theory comprising both in appropriate limits i e quantum gravity This book gives readers a comprehensive introduction accessible to interested non experts to the main issues surrounding the search for quantum gravity These issues relate to fundamental questions concerning the various formalisms of quantization specific questions concerning concrete processes like gravitational collapse or black hole evaporation and the all important question concerning the possibility of experimental tests of quantum gravity effects [The Meaning of Quantum Gravity](#) Horst-Heino Borzeszkowski, H.J. Treder, 2012-12-06 In discussing the question of whether General Relativity Theory really needs to be quantized a simply negative answer cannot be accepted of course Such an answer is not satisfying because first Einstein s gravitational equations connect gravity and non gravitational matter and because second it can be taken for granted that non gravitational matter has an atomic or quantum structure such that its energy momentum tensor standing on the right hand side of Einstein s equations is formed

out of quantum operators. These two facts make it impossible to read the left hand side of Einstein's equations as an ordinary classical function. This does not necessarily mean however that we must draw the conclusion that General Relativity Theory similar to electrodynamics could or should be quantized in a rigorous manner and that this quantization has similar consequences to quantum electrodynamics. In other words when for reasons of consistency quantization is tried then one has to ask whether and where the quantization procedure has a physical meaning i.e. whether there exist measurable effects of quantum gravity. In accordance with these questions we are mainly dealing with the discussion of the principles of quantized General Relativity Theory and with the estimation of quantum effects including the question of their measurability. This analysis proves that it is impossible to distinguish between classical and quantum General Relativity Theory for the extreme case of Planck's orders of magnitude. In other words there does not exist a physically meaningful rigorous quantization conception for Einstein's theory.

*Approaches to Quantum Gravity* Daniele Oriti, 2009-03-05 The theory of quantum gravity promises a revolutionary new understanding of gravity and spacetime valid from microscopic to cosmological distances. Research in this field involves an exciting blend of rigorous mathematics and bold speculations, foundational questions and technical issues. Containing contributions from leading researchers in this field, this book presents the fundamental issues involved in the construction of a quantum theory of gravity and building up a quantum picture of space and time. It introduces the most current approaches to this problem and reviews their main achievements. Each part ends in questions and answers in which the contributors explore the merits and problems of the various approaches. This book provides a complete overview of this field from the frontiers of theoretical physics research for graduate students and researchers.

*Beyond Spacetime* Nick Huggett, Keizo Matsubara, Christian Wüthrich, 2020-05-14 One of the greatest challenges in fundamental physics is to reconcile quantum mechanics and general relativity in a theory of quantum gravity. A successful theory would have profound consequences for our understanding of space, time and matter. This collection of essays written by eminent physicists and philosophers discusses these consequences and examines the most important conceptual questions among philosophers and physicists in their search for a quantum theory of gravity. Comprising three parts, the book explores the emergence of classical spacetime, the nature of time and important questions of the interpretation, metaphysics and epistemology of quantum gravity. These essays will appeal to both physicists and philosophers of science working on problems in foundational physics, specifically that of quantum gravity.

*Quantum Space* Jim Baggott, 2018-11-08 Today we are blessed with two extraordinarily successful theories of physics. The first is Albert Einstein's general theory of relativity which describes the large scale behaviour of matter in a curved spacetime. This theory is the basis for the standard model of big bang cosmology. The discovery of gravitational waves at the LIGO observatory in the US and then Virgo in Italy is only the most recent of this theory's many triumphs. The second is quantum mechanics. This theory describes the properties and behaviour of matter and radiation at their smallest scales. It is the basis for the standard model of particle physics which builds up all the visible

constituents of the universe out of collections of quarks electrons and force carrying particles such as photons The discovery of the Higgs boson at CERN in Geneva is only the most recent of this theory s many triumphs But while they are both highly successful these two structures leave a lot of important questions unanswered They are also based on two different interpretations of space and time and are therefore fundamentally incompatible We have two descriptions but as far as we know we ve only ever had one universe What we need is a quantum theory of gravity Approaches to formulating such a theory have primarily followed two paths One leads to String Theory which has for long been fashionable and about which much has been written But String Theory has become mired in problems In this book Jim Baggott describes **Towards Quantum Gravity** Jerzy Kowalski-Glikman,2000-01-24 The aim of this book is to give graduate students an overview of quantum gravity but it also covers related topics from astrophysics Some well written contributions can serve as an introduction into basic conceptual concepts like time in quantum gravity or the emergence of a classical world from quantum cosmology This makes the volume attractive to philosophers of science too Other topics are black holes gravitational waves and non commutative extensions of physical theories **Three Roads To Quantum Gravity** Lee Smolin,2002-07-04 A cosmologist and science writer presents a comprehensive and detailed overview of the most recent attempts to reconcile two opposing theories Einstein s theory of general relativity and quantum theory by creating a theory of everything which is a revolutionary new theory of space time and the universe Reprint 30 000 first printing *The Structural Foundations of Quantum Gravity* Dean Rickles,Steven French,Juha T. Saatsi,2006-11-16 What is spacetime General relativity and quantum field theory answer this question in different ways This collection of essays looks at the problem of uniting these two fundamental theories of our world focusing on the nature of space and time within this quantum framework *A First Course in Loop Quantum Gravity* Rodolfo Gambini,Jorge Pullin,2011-09-22 This book provides an accessible introduction to loop quantum gravity and some of its applications at a level suitable for undergraduate students and others with only a minimal knowledge of college level physics In particular it is not assumed that the reader is familiar with general relativity and only minimally familiar with quantum mechanics and Hamiltonian mechanics Most chapters end with problems that elaborate on the text and aid learning Applications such as loop quantum cosmology black hole entropy and spin foams are briefly covered The text is ideally suited for an undergraduate course in the senior year of a physics major It can also be used to introduce undergraduates to general relativity and quantum field theory as part of a special topics type of course *Foundations of Quantum Gravity* James Lindesay,2013-05-16 Explores how quantum coherence can be consistently incorporated into Einstein s theory of gravitation for researchers in the foundations of physics [Euclidean Quantum Gravity](#) G. W. Gibbons,Stephen W. Hawking,1993 The Euclidean approach to Quantum Gravity was initiated almost 15 years ago in an attempt to understand the difficulties raised by the spacetime singularities of classical general relativity which arise in the gravitational collapse of stars to form black holes and the entire universe in the Big Bang An important

motivation was to develop an approach capable of dealing with the nonlinear non perturbative aspects of quantum gravity due to topologically non trivial spacetimes There are important links with a Riemannian geometry Since its inception the theory has been applied to a number of important physical problems including the thermodynamic properties of black holes quantum cosmology and the problem of the cosmological constant It is currently at the centre of a great deal of interest This is a collection of survey lectures and reprints of some important lectures on the Euclidean approach to quantum gravity in which one expresses the Feynman path integral as a sum over Riemannian metrics As well as papers on the basic formalism there are sections on Black Holes Quantum Cosmology Wormholes and Gravitational Instantons Reality Is Not What It Seems Carlo Rovelli,2018-01-23 The man who makes physics sexy the scientist they re calling the next Stephen Hawking The Times Magazine From the New York Times bestselling author of Seven Brief Lessons on Physics The Order of Time and the forthcoming Helgoland a closer look at the mind bending nature of the universe What are the elementary ingredients of the world Do time and space exist And what exactly is reality In elegant and accessible prose theoretical physicist Carlo Rovelli leads us on a wondrous journey from Democritus to Einstein from Michael Faraday to gravitational waves and from classical physics to his own work in quantum gravity As he shows us how the idea of reality has evolved over time Rovelli offers deeper explanations of the theories he introduced so concisely in Seven Brief Lessons on Physics Rovelli invites us to imagine a marvelous world where space breaks up into tiny grains time disappears at the smallest scales and black holes are waiting to explode a vast universe still largely undiscovered Foundations of Space and Time Jeff Murugan,Amanda Weltman,George F. R. Ellis,2012-07-19 Encapsulates the latest debates on this topic giving researchers and graduate students an up to date view of the field *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* Bertfried Fauser,Jürgen Tolksdorf,Eberhard Zeidler,2007-02-15 This book provides the reader with an overview of the different mathematical

attempts to quantize gravity written by leading experts in this field Also discussed are the possible experimental bounds on quantum gravity effects The contributions have been strictly refereed and are written in an accessible style The present volume emerged from the 2nd Blaubeuren Workshop Mathematical and Physical Aspects of Quantum Gravity **Quantum Gravity in 2+1 Dimensions** Steven Carlip, Steven Jonathan Carlip, 2003-12-04 The first comprehensive survey of 2+1 dimensional quantum gravity for graduate students and researchers Quantum Gravity Domenico J. W. Giulini, Claus Kiefer, Claus Lämmerzahl, 2014-03-12 The relation between quantum theory and the theory of gravitation remains one of the most outstanding unresolved issues of modern physics According to general expectation general relativity as well as quantum field theory in a fixed background spacetime cannot be fundamentally correct Hence there should exist a broader theory comprising both in appropriate limits i e quantum gravity This book gives readers a comprehensive introduction accessible to interested non experts to the main issues surrounding the search for quantum gravity These issues relate to fundamental questions concerning the various formalisms of quantization specific questions concerning concrete processes like gravitational collapse or black hole evaporation and the all important question concerning the possibility of experimental tests of quantum gravity effects 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

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