

Foundations of Quantum Gravity

James Lindesay



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Foundations Of Quantum Gravity

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Foundations Of Quantum Gravity:

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. *Foundations of Quantum Gravity* James

Lindesay, 2013 Exploring how the subtleties of quantum coherence can be consistently incorporated into Einstein's theory of gravitation, this book is ideal for researchers interested in the foundations of relativity and quantum physics. The book examines those properties of coherent gravitating systems that are most closely connected to experimental observations. Examples of consistent co-gravitating quantum systems whose overall effects upon the geometry are independent of the coherence state of each constituent are provided, and the properties of the trapping regions of non-singular black objects, black holes, and a dynamic de Sitter cosmology are discussed analytically, numerically, and diagrammatically. The extensive use of diagrams to summarise the results of the mathematics enables readers to bypass the need for a detailed understanding of the steps involved. Assuming some knowledge of quantum physics and relativity, the book provides textboxes featuring supplementary information for readers particularly interested in the philosophy and foundations of the physics.

Foundations of Quantum Gravity James Lindesay, 2014-05-14 Explores how quantum coherence can be consistently incorporated into Einstein's theory of gravitation for researchers in the foundations of physics. **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.

Progress and Visions in Quantum Theory in View of Gravity Felix Finster, Domenico Giulini, Johannes Kleiner, Jürgen Tolksdorf, 2020-04-09 This book focuses on a critical discussion of the status and prospects of current approaches in quantum mechanics and quantum field theory, in particular concerning gravity. It contains a carefully selected cross-section of lectures and discussions at the seventh conference Progress and Visions in Quantum Theory in View of Gravity, which took place in fall 2018 at the Max Planck Institute for Mathematics in the Sciences in Leipzig. In contrast to usual proceeding volumes, instead of reporting on the most recent technical results, contributors were asked to discuss visions and new ideas in foundational physics, in particular concerning foundations of quantum field theory. A special focus has been put on the question of which

physical principles of quantum field theory can be considered fundamental in view of gravity The book is mainly addressed to mathematicians and physicists who are interested in fundamental questions of mathematical physics It allows the reader to obtain a broad and up to date overview of a fascinating active research area *Foundations of Quantum Cosmology* Martin Bojowald,2020-09-25 This is the first book to lay the physical foundations of quantum cosmology complete with an introduction to space time physics quantum theory and the main approaches to quantum gravity It is an essential guide for researchers in quantum gravity and astrophysicists interested in fundamental aspects of cosmology *Quantum Gravity* Carlo Rovelli,2007-11-29 Quantum gravity is perhaps the most important open problem in fundamental physics It is the problem of merging quantum mechanics and general relativity the two great conceptual revolutions in the physics of the twentieth century The loop and spinfoam approach presented in this 2004 book is one of the leading research programs in the field The first part of the book discusses the reformulation of the basis of classical and quantum Hamiltonian physics required by general relativity The second part covers the basic technical research directions Appendices include a detailed history of the subject of quantum gravity hard to find mathematical material and a discussion of some philosophical issues raised by the subject This fascinating text is ideal for graduate students entering the field as well as researchers already working in quantum gravity It will also appeal to philosophers and other scholars interested in the nature of space and time

Foundations of Space and Time Jeff Murugan,George Francis Rayner Ellis,2014 **Foundations of Quantum Gravity the Nucleus Black Hole Parallel** Francis Balungi,2016-02-18 The aim of this book is to develop a modified quantum theory of gravity to solve the problems involving the combination of very high energy and very small dimensions of space such as the behavior of Black holes and the origin of the universe *One Hundred Years Of General Relativity: From Genesis And Empirical Foundations To Gravitational Waves, Cosmology And Quantum Gravity - Volume 1* Wei-tou Ni,2017-05-26 The aim of this two volume title is to give a comprehensive review of one hundred years of development of general relativity and its scientific influences This unique title provides a broad introduction and review to the fascinating and profound subject of general relativity its historical development its important theoretical consequences gravitational wave detection and applications to astrophysics and cosmology The series focuses on five aspects of the theory The first three topics are covered in Volume 1 and the remaining two are covered in Volume 2 While this is a two volume title it is designed so that each volume can be a standalone reference volume for the related topic **The Foundation of Reality** David Glick,George Darby,Anna Marmodoro,2020-04-29 Are space and time fundamental features of our world or might they emerge from something else The Foundation of Reality brings together metaphysicians and philosophers of physics working on space time and fundamentality to address this timely question Recent developments in the interpretation of quantum mechanics and the understanding of certain approaches to quantum gravity have led philosophers of physics to propose that space and time might be emergent rather than fundamental But such discussions are often conducted without engagement

with those working on fundamentality and related issues in contemporary metaphysics This book aims to correct this oversight The diverse contributions to this volume address topics including the nature of fundamentality the relation of space and time to quantum entanglement and space and time in theories of quantum gravity Only through consideration of a range of different approaches to the topic can we hope to get clear on the status of space and time in our contemporary understanding of physical reality

The Ontology of Spacetime II, 2008-06-17 The sixteen papers collected in this volume are expanded and revised versions of talks delivered at the Second International Conference on the Ontology of Spacetime organized by the International Society for the Advanced Study of Spacetime John Earman President at Concordia University Montreal from 9 to 11 June 2006 Most chapters are devoted to subjects directly relating to the ontology of spacetime The book starts with four papers that discuss the ontological status of spacetime and the processes occurring in it from a point of view that is first of all conceptual and philosophical The focus then slightly shifts in the five papers that follow to considerations more directly involving technical considerations from relativity theory After this Time Becoming and Change take centre stage in the next five papers The book ends with two excursions into relatively uncharted territory a consideration of the status of Kaluza Klein theory and an investigation of possible relations between the nature of spacetime and condensed matter physics respectively Space and time in present day physics and philosophy Relatively low level of technicality easily accessible Introduction from scratch of the debates surrounding time Broad spectrum of approaches coherently represented

Quantum Gravity in a Nutshell1 Second Edition Balungi Francis, 2019-06-04 This second edition to the bestselling Quantum Gravity in a Nutshell1 is a good introduction to quantum gravity and has a lot of interesting history about the development of the theory since 1899 It s an informal introduction to a very difficult and doubtfully intelligible theory doubted even by its most ingenious contributors The reader should expect that he she will have to concentrate hard on what Balungi says but the rewards are significant He is a talented physicist and a good writer If you read it carefully and stop to think about the message as it unfolds then you will get a worthwhile if imperfect picture of what the theory is saying and how it was invented It s buried treasure and you will have to do some digging It is a really serious attempt to do all that can be done in an informal style Balungi explains and re defines Einstein s theory of general relativity quantum mechanics black holes the complex architecture of the universe elementary particles gravity and the nature of the mind This wonderful and exciting book is optimal for physics graduate students and researchers Not since Stephen W Hawking s celebrated best seller Brief History of Time has physics been so vividly intelligently and entertainingly revealed

The Ashgate Companion to Contemporary Philosophy of Physics Dean Rickles, 2016-11-25 Introducing the reader to the very latest developments in the philosophical foundations of physics this book covers advanced material at a level suitable for beginner and intermediate students A detailed overview is provided of the central debates in the philosophy of quantum mechanics statistical mechanics quantum computation and quantum gravity Each chapter consists of a state of the art review

written by a specialist in the field and introduces the reader to the relevant formal aspects along with the philosophical implications. These and the various interpretive options are developed in a self-contained clear and concise manner. Special care is given to situating the reader within the contemporary debates by providing numerous references and readings. This book thus enables both philosophers and physicists to engage with the most pressing problems in contemporary philosophy of physics in a fruitful way.

Philosophy of Science Alexander Christian, David Hommen, Nina Retzlaff, Gerhard Schurz, 2018-03-26. This broad and insightful book presents current scholarship in important subfields of philosophy of science and addresses an interdisciplinary and multidisciplinary readership. It groups carefully selected contributions into the four fields of I philosophy of physics II philosophy of life sciences III philosophy of social sciences and values in science and IV philosophy of mathematics and formal modeling. Readers will discover research papers by Paul Hoyningen Huene, Keizo Matsubara, Kian Salimkhani, Andrea Reichenberger, Anne Sophie Meincke, Javier Suarez, Roger Deulofeu, Ludger Jansen, Peter Hucklenbroich, Martin Carrier, Elizaveta Kostrova, Lara Huber, Jens Harbecke, Antonio Piccolomini d'Aragona, and Axel Gelfert. This collection fosters dialogue between philosophers of science working in different subfields and brings readers the finest and latest work across the breadth of the field, illustrating that contemporary philosophy of science has successfully broadened its scope of reflection. It will interest and inspire a wide audience of philosophers as well as scholars of the natural sciences, social sciences, and the humanities. The volume shares selected contributions from the prestigious second triennial conference of the German Society for Philosophy of Science, Gesellschaft für Wissenschaftsphilosophie GWP 2016, March 8-11, 2016.

Conceptual Foundations of Quantum Field Theory Tian Yu Cao, 2004-03-25. Multi-author volume on the history and philosophy of physics.

Effective Theory of Quantum Gravity Subodha Mishra, Joy Christian, 2011-03. This book develops an Effective Theory of Quantum Gravity based on the two pillars of physics, namely General Theory of Relativity and Quantum Mechanics. It opens up a new direction of research in the search for a quantum theory of gravity by first exactly quantizing the Newton-Cartan-Schrodinger theory of non-relativistic gravity and then special-relativizing the quantized theory by invoking Mach's Principle in the case of the universe and Schwarzschild radius in the case of massive stars and black holes. The main technique employed for the latter task is a variational technique using a trial local density. Subodha Mishra is a Professor of Physics at the Institute of Technical Education and Research, Bhubaneswar, India. He has two doctoral degrees in Physics, one from the University of Missouri-Columbia, USA, and the other from the Institute of Physics, India. His research interests are in theoretical physics, especially in theoretical condensed-matter physics and cosmology. Joy Christian is a Researcher at the Department of Physics and Wolfson College of the University of Oxford, UK. He received his doctoral degree in Foundations of Physics from Boston University, USA, and has been a Visiting Professor at the Perimeter Institute for Theoretical Physics, Canada. His main research interests are in the foundations of quantum and gravitational physics, with an outlook towards a theory of quantum gravity.

The Routledge Companion to Philosophy of

Physics Eleanor Knox, Alastair Wilson, 2021-09-28 The Routledge Companion to Philosophy of Physics is a comprehensive and authoritative guide to the state of the art in the philosophy of physics. It comprises 54 self-contained chapters written by leading philosophers of physics at both senior and junior levels, making it the most thorough and detailed volume of its type on the market. Nearly every major perspective in the field is represented. The Companion's 54 chapters are organized into 12 parts. The first seven parts cover all of the major physical theories investigated by philosophers of physics today, and the last five explore key themes that unite the study of these theories: I Newtonian Mechanics II Special Relativity III General Relativity IV Non-Relativistic Quantum Theory V Quantum Field Theory VI Quantum Gravity VII Statistical Mechanics and Thermodynamics VIII Explanation IX Intertheoretic Relations X Symmetries XI Metaphysics XII Cosmology. The difficulty level of the chapters has been carefully pitched so as to offer both accessible summaries for those new to philosophy of physics and standard reference points for active researchers on the front lines. An introductory chapter by the editors maps out the field, and each part also begins with a short summary that places the individual chapters in context. The volume will be indispensable to any serious student or scholar of philosophy of physics.

On the technological foundations of interstellar space travel Erik Kolek, 2024-10-15 From the foreword by Dr rer pol Erik Kolek: This book is a groundbreaking theoretical treatise on the technological foundations of interstellar space travel, with the research goal of describing and therefore enabling it as down to earth as possible. As an introduction, the basics of a theory of everything are described. A quantum medical molecular theory with regard to human body cells is introduced by means of heuristic points of view. Advanced quantum technologies are developed and described in terms of content. The work consists of interesting individual contributions on individual topics.

Einstein vs. Bergson Alessandra Campo, Simone Gozzano, 2021-11-08 This book brings together papers from a conference that took place in the city of L'Aquila 4-6 April 2019 to commemorate the 10th anniversary of the earthquake that struck on 6 April 2009. Philosophers and scientists from diverse fields of research debated the problem that on 6 April 1922 divided Einstein and Bergson: the nature of time. For Einstein, scientific time is the only time that matters, and the only time we can rely on. Bergson, however, believes that scientific time is derived by abstraction, even in the sense of extraction from a more fundamental time. The plurality of times envisaged by the theory of Relativity does not for him contradict the philosophical intuition of the existence of a single time. But how do things stand today? What can we say about the relationship between the quantitative and qualitative dimensions of time in the light of contemporary science? What do quantum mechanics, biology, and neuroscience teach us about the nature of time? The essays collected here take up the question that pitted Einstein against Bergson: science against philosophy in an attempt to reverse the outcome of their monologue in two voices with a multilogue in several voices.

Whispering the Secrets of Language: An Psychological Journey through **Foundations Of Quantum Gravity**

In a digitally-driven earth wherever screens reign great and immediate interaction drowns out the subtleties of language, the profound strategies and mental nuances concealed within phrases usually move unheard. However, nestled within the pages of **Foundations Of Quantum Gravity** a charming fictional treasure pulsating with fresh feelings, lies a fantastic journey waiting to be undertaken. Published by an experienced wordsmith, that charming opus invites viewers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within the cloth of each and every word. Within the psychological depths with this moving review, we shall embark upon a genuine exploration of the book is primary styles, dissect its fascinating writing style, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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