

PHYSICS MEETS PHILOSOPHY AT THE PLANCK SCALE



CONTEMPORARY THEORIES IN QUANTUM GRAVITY
CRAIG CALLENDER AND NICK HUGGETT

Physics Meets Philosophy At The Planck Scale Contemporary Theories In Quantum Gravity

**Nick Huggett, Keizo
Matsubara, Christian Wüthrich**



Physics Meets Philosophy At The Planck Scale Contemporary Theories In Quantum Gravity:

Physics Meets Philosophy at the Planck Scale Craig Callender, Nick Huggett, 2001-01-29 Was the first book to examine the exciting area of overlap between philosophy and quantum mechanics with chapters by leading experts from around the world

Trends in Quantum Gravity Research David C. Moore, 2006 Quantum gravity is the field of theoretical physics attempting to unify the theory of quantum mechanics which describes three of the fundamental forces of nature with general relativity the theory of the fourth fundamental force gravity The ultimate goal is a unified framework for all fundamental forces a theory of everything This book examines state of art research in this field

Epistemology of Experimental Gravity - Scientific Rationality Nicolae Sfetcu, 2019 The evolution of gravitational tests from an epistemological perspective framed in the concept of rational reconstruction of Imre Lakatos based on his methodology of research programmes Unlike other works on the same subject the evaluated period is very extensive starting with Newton's natural philosophy and up to the quantum gravity theories of today In order to explain in a more rational way the complex evolution of the gravity concept of the last century I propose a natural extension of the methodology of the research programmes of Lakatos that I then use during the paper I believe that this approach offers a new perspective on how evolved over time the concept of gravity and the methods of testing each theory of gravity through observations and experiments I argue based on the methodology of the research programmes and the studies of scientists and philosophers that the current theories of quantum gravity are degenerative due to the lack of experimental evidence over a long period of time and of self immunization against the possibility of falsification Moreover a methodological current is being developed that assigns a secondary unimportant role to verification through observations and or experiments For this reason it will not be possible to have a complete theory of quantum gravity in its current form which to the limit the general relativity since physical theories have always been adjusted during their evolution based on observational or experimental tests and verified by the predictions made Also contrary to a widespread opinion and current active programs regarding the unification of all the fundamental forces of physics in a single final theory based on string theory I argue that this unification is generally unlikely and it is not possible anyway for a unification to be developed based on current theories of quantum gravity including string theory In addition I support the views of some scientists and philosophers that currently too much resources are being consumed on the idea of developing quantum gravity theories and in particular string theory to include general relativity and to unify gravity with other forces as long as science does not impose such research programs

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The Final Theory 4 Cosmology Conclusions Notes Bibliography DOI 10.13140/RG.2.2.35350.70724 Von der Physik zur Metaphysik Reiner Hedrich, 2013-05-02 Obwohl der Stringansatz als Versuch einer nomologisch vereinheitlichten Erfassung aller Wechselwirkungen inklusive der Gravitation schon drei Jahrzehnte existiert sind die ihm zugrundeliegenden physikalischen Prinzipien noch vllig unklar und es gibt nicht die geringste empirisch berprfbare quantitative Vorhersage Ohne empirische Daten die mit den etablierten Theorien quantenfeldtheoretischem Standardmodell und Allgemeiner Relativit tstheorie unvereinbar wren liefert nur die konzeptionelle Inkompatibilit t beider gemeinsam mit der Vereinheitlichungs-idee eine Motivation fr den Stringansatz Mit diesem droht jedoch die Physik unter konsequenter Weiterfhrung ihrer bisher erfolgreichen Strategien den methodologischen Rahmen der empirischen Wissenschaften zu berschreiten

Temporal Topos Methods for the Philosophy of Natural Sciences Goro C. Kato, 2025-06-09 This book is a first attempt to unify and explain through the language of pure mathematics called categories and sheaves the mechanism of mental activities Humanities and philosophy meet physics and mathematics at both levels of the microcosm and macrocosm The purpose of this book is to provide systematic and unifying methods for the physical and the cognitive aspects of a conscious entity The philosophical thoughts of the West and the East will be formulated and presented in terms of categories and sheaves using pure mathematics A definition based rigorous approach and method using categorical sheaf theory is a completely new attempt to formulate the ontological philosophies which must be consistent with quantum physics For example it is the author s intent to capture reality as a pair of the cognitive realm and the physical realm for which the author uses the notion of temporal topos theory as a pair of an initial object and a terminal object of temporal topos This book allows philosophers and natural scientists to interact to discuss and observe the physical world and the cognitive world That is a brain existing in the physical world is simultaneously functioning in the cognitive world The author provides detailed descriptions for the process from the small to the large which is a part of descent sheaf theory in mathematics by gluing the

local data to obtain a global object A description of a process of understanding and realizing recognizing discovering is also formulated in terms of temporal topos language The author provides all the needed mathematical background so that readers whose main interests are in humanities can enjoy and appreciate the rigorousness and the harmony of humanities and natural sciences

Epistemology and Probability Arkady Plotnitsky, 2009-10-20 This book offers an exploration of the relationships between epistemology and probability in the work of Niels Bohr Werner Heisenberg and Erwin Schrodinger and in quantum mechanics and in modern physics as a whole It also considers the implications of these relationships and of quantum theory itself for our understanding of the nature of human thinking and knowledge in general or the epistemological lesson of quantum mechanics as Bohr liked to say These implications are radical and controversial While they have been seen as scientifically productive and intellectually liberating to some Bohr and Heisenberg among them they have been troublesome to many others such as Schrodinger and most prominently Albert Einstein Einstein famously refused to believe that God would resort to playing dice or rather to playing with nature in the way quantum mechanics appeared to suggest which is indeed quite different from playing dice According to his later sometime around 1953 remark a lesser known or commented upon but arguably more important one That the Lord should play dice all right but that He should gamble according to definite rules i e according to the rules of quantum mechanics rather than 2 by merely throwing dice that is beyond me Although Einstein's invocation of God is taken literally sometimes he was not talking about God but about the way nature works Bohr's reply on an earlier occasion to Einstein's question 1 Cf 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

Eternity Yitzhak Y. Melamed, 2016-06-01 This edited volume aims at providing a history of the philosophical explorations of eternity alongside a series of short essays called reflections on the role of eternity and its representations in literature religion language liturgy science and music In doing so it reveals philosophy to be a discipline in constant conversation with various other domains of human thought and exploration

Philosophical Essays Nicolae Sfetcu, 1900 A collection of personal essays in philosophy of science physics especially gravity philosophy of information and communication technology current social issues emotional intelligence COVID 19 pandemic eugenics intelligence philosophy of art and logic and philosophy of language The distinction between falsification and refutation in the demarcation problem of

Karl Popper Imre Lakatos Heuristics and methodological tolerance Isaac Newton on the action at a distance in gravity With or without God Causal Loops in Time Travel The singularities as ontological limits of the general relativity Epistemology of Experimental Gravity Scientific Rationality Philosophy of Blockchain Technology Ontologies Big Data Ethics in Research Emotions and Emotional Intelligence in Organizations COVID 19 Pandemic Philosophical Approaches Evolution and Ethics of Eugenics Epistemology of Intelligence Agencies Solaris directed by Andrei Tarkovsky Psychological and philosophical aspects Causal theories of reference for proper names CONTENTS The distinction between falsification and refutation in the demarcation problem of Karl Popper Abstract Introduction 1 The demarcation problem 2 Pseudoscience 3 Falsifiability 4 Falsification and refutation 5 Extension of falsifiability 6 Criticism of falsifiability 7 Support of falsifiability 8 The current trend Conclusions Bibliography Notes Imre Lakatos Heuristics and methodological tolerance Rational reconstruction of science through research programmes Dogmatic Falsificationism Justificationism Bibliography Isaac Newton vs Robert Hooke on the law of universal gravitation Abstract Introduction Robert Hooke s contribution to the law of universal gravitation Isaac Newton s contribution to the law of universal gravitation Robert Hooke s claim of his priority on the law of universal gravitation Newton s defense The controversy in the opinion of other contemporary scientists What the supporters of Isaac Newton say What the supporters of Robert Hooke say Conclusions Bibliography Notes Isaac Newton on the action at a distance in gravity With or without God Abstract Introduction Principia Correspondence with Richard Bentley Queries in Opticks Conclusions Bibliography Causal Loops in Time Travel Abstract Introduction History of the concept of time travel Grandfather paradox The philosophy of time travel Causal loops Conclusions Bibliography Notes The singularities as ontological limits of the general relativity Abstract Introduction Classical Theory and Special Relativity General Relativity GR 1 Ontology of General Relativity 2 Singularities Black Holes Event Horizon Big Bang Are there Singularities 3 Ontology of Singularities Ontology of black holes The hole argument There are no singularities Conclusions Notes Bibliography Epistemology of Experimental Gravity Scientific Rationality Introduction Gravity Gravitational tests Methodology of Lakatos Scientific rationality The natural extension of the Lakatos methodology Bifurcated programs Unifying programs 1 Newtonian gravity 1 1 Heuristics of Newtonian gravity 1 2 Proliferation of post Newtonian theories 1 3 Tests of post Newtonian theories 1 3 1 Newton s proposed tests 1 3 2 Tests of post Newtonian theories 1 4 Newtonian gravity anomalies 1 5 Saturation point in Newtonian gravity 2 General relativity 2 1 Heuristics of the general relativity 2 2 Proliferation of post Einsteinian gravitational theories 2 3 Post Newtonian parameterized formalism PPN 2 4 Tests of general relativity and post Einsteinian theories 2 4 1 Tests proposed by Einstein 2 4 2 Tests of post Einsteinian theories 2 4 3 Classic tests 2 4 3 1 Precision of Mercury s perihelion 2 4 3 2 Light deflection 2 4 3 3 Gravitational redshift 2 4 4 Modern tests 2 4 4 1 Shapiro Delay 2 4 4 2 Gravitational dilation of time 2 4 4 3 Frame dragging and geodetic effect 2 4 4 4 Testing of the principle of equivalence 2 4 4 5 Solar system tests 2 4 5 Strong field gravitational tests 2 4 5 1 Gravitational lenses 2 4 5 2 Gravitational waves 2 4 5 3

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Nieuwenhuizen,2006-01-05 This V xj conference was devoted to the reconsideration of quantum foundations Due to increasing research in quantum information theory especially on quantum computing and cryptography many questions regarding the foundations of quantum mechanics which have long been considered to be exclusively of philosophical interest nowadays play an important role in theoretical and experimental quantum physics *The Philosophy of Science* Sahotra Sarkar,Jessica Pfeifer,2006 The first in depth reference to the field that combines scientific knowledge with philosophical inquiry this encyclopedia brings together a team of leading scholars to provide nearly 150 entries on the essential concepts in the philosophy of science The areas covered include biology chemistry epistemology and metaphysics physics psychology and mind the social sciences and key figures in the combined studies of science and philosophy Midwest Philosophy in Science ,2003 **Recent Developments in Gravitational Physics** I. Ciufolini,2006-02-21 This volume provides an overview of the progress in gravitational physics reporting recent theoretical experimental and observational results The book is based on the plenary invited and contributed papers presented at the biennial conference of the Italian Society of General Relativity and Gravitation SIGRAV held in Rome September 2002 The contributors discuss topics such as general relativity quantum gravity relativistic astrophysics cosmology and experimental gravitation This book is ideal for researchers and postgraduate students in relativity gravitation cosmology astrophysics and high energy physics **N-body Gravitational Problem** Karel Havel,2008 This is based on the previously published e books of the same author N Bodies no problem unrestricted two and three dimensional solutions first edition February 2005 second expanded edition September 2005 and N body Gravitational Problem Unrestricted Solution June 2007 **Encyclopedia of Philosophy** Donald M. Borchert,2006 This volume covering entries from Shaftesbury Third Earl of to Zubiri Xavier presents articles on Eastern and Western philosophies medical and scientific ethics the Holocaust terrorism censorship biographical entries and much more **Mindworlds** J. Andrew Ross,2009 The ongoing attempt to understand consciousness is one of the central scientific challenges of our time This book is primarily a presentation of Ross s own recent work but it also discusses various other contemporary perspectives on the core issues of this dynamic field Envisioning Nature, Science, and Religion James D. Proctor,2009-10-15 Contemporary scholarship has given rise to several modes of understanding biophysical and human nature each entangled with related notions of science and religion Envisioning Nature Science and Religion represents the culmination of three years of collaboration by an international group of fourteen natural scientists social scientists humanists and theologians The result is an intellectually stimulating volume that explores how the ideas of nature pertain to science and religion Editor James D Proctor has gathered sixteen in depth essays each examining and comparing five central metaphors or visions of biophysical and human nature These visions are evolutionary nature emergent nature malleable nature nature as sacred and nature as culture The book s diverse contributors offer a wide variety of unique perspectives on these five visions spanning the intellectual spectrum and proposing important and often startling implications for religion and science

alike Throughout the essays the authors do a great deal of cross referencing and engaging each other s ideas creating a cohesive dialogue on the visions of nature Envisioning Nature Science and Religion offers a blend of scholarly rigor and readable prose that will be appreciated by anyone engaged in the fields of religion philosophy and the natural sciences

Visions of what We Know Tona Williams,2006 *Choice* ,2001 Forthcoming Books Rose Arny,2000

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