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Conceptual Problems of Quantum Gravity

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Conceptual Problems Of Quantum Gravity Einstein Studies

**David E. Rowe, Tilman Sauer, Scott A.
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Conceptual Problems of Quantum Gravity Abhay Ashtekar, John Stachel, 1991-01-01 Conversations on Quantum Gravity Jácome Armas, 2021-08-26 Leading theorists share their important insights into the ongoing quest of theoretical physics to find a quantum theory of gravity The Structural Foundations of Quantum Gravity Dean Rickles, Steven French, Juha T. Saatsi, 2006-11-16 Quantum gravity is the name given to a theory that unites general relativity Einstein's theory of gravitation and spacetime with quantum field theory our framework for describing non gravitational forces The Structural Foundations of Quantum Gravity brings together philosophers and physicists to discuss a range of conceptual issues that surface in the effort to unite these theories focusing in particular on the ontological nature of the spacetime that results Although there has been a great deal written about quantum gravity from the perspective of physicists and mathematicians very little attention has been paid to the philosophical aspects This volume closes that gap with essays written by some of the leading researchers in the field Individual papers defend or attack a structuralist perspective on the fundamental ontologies of our physical theories which offers the possibility of shedding new light on a number of foundational problems It is a book that will be of interest not only to physicists and philosophers of physics but to anyone concerned with foundational issues and curious to explore new directions in our understanding of spacetime and quantum physics 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 Einstein Don Howard, John J. Stachel, 2000 This book for a broad readership examines the young Einstein from a variety of perspectives personal scientific historical and philosophical **Einstein in Context** Mara Beller, Robert S. Cohen, Jürgen Renn, 1993-10-29 This special issue of Science and Context examines the entire area of scientific inquiry surrounding Einstein presenting controversies and debates within their contexts *Einstein and the Changing Worldviews of Physics* Christoph Lehner, Jürgen Renn, Matthias Schemmel, 2012-02-02 This volume reviews conceptual conflicts at the foundations of physics now and in the past century The focus is on the conditions and consequences of Einstein's pathbreaking achievements that sealed the decline of the classical notions of space time radiation and matter and resulted in the theory of relativity Particular attention is paid to the implications of conceptual conflicts for scientific views of the world at large thus providing the basis for a comparison of the demise of the mechanical worldview at the turn of the 20th century with the challenges presented by cosmology at the turn of the 21st century Throughout the work Einstein's contributions are not seen in isolation but instead set into the wider intellectual context of dealing with the problem of gravitation in the twilight of classical physics the investigation of the historical development is carried out with a

number of epistemological questions in mind concerning in particular the transformation process of knowledge associated with the changing worldviews of physics Quantum Generations Helge Kragh, 2020-06-16 At the end of the nineteenth century some physicists believed that the basic principles underlying their subject were already known and that physics in the future would only consist of filling in the details They could hardly have been more wrong The past century has seen the rise of quantum mechanics relativity cosmology particle physics and solid state physics among other fields These subjects have fundamentally changed our understanding of space time and matter They have also transformed daily life inspiring a technological revolution that has included the development of radio television lasers nuclear power and computers In Quantum Generations Helge Kragh one of the world's leading historians of physics presents a sweeping account of these extraordinary achievements of the past one hundred years The first comprehensive one volume history of twentieth century physics the book takes us from the discovery of X rays in the mid 1890s to superstring theory in the 1990s Unlike most previous histories of physics written either from a scientific perspective or from a social and institutional perspective Quantum Generations combines both approaches Kragh writes about pure science with the expertise of a trained physicist while keeping the content accessible to nonspecialists and paying careful attention to practical uses of science ranging from compact disks to bombs As a historian Kragh skillfully outlines the social and economic contexts that have shaped the field in the twentieth century He writes for example about the impact of the two world wars the fate of physics under Hitler Mussolini and Stalin the role of military research the emerging leadership of the United States and the backlash against science that began in the 1960s He also shows how the revolutionary discoveries of scientists ranging from Einstein Planck and Bohr to Stephen Hawking have been built on the great traditions of earlier centuries Combining a mastery of detail with a sure sense of the broad contours of historical change Kragh has written a fitting tribute to the scientists who have played such a decisive role in the making of the modern world Philosophical Problems of the Internal and External Worlds John Earman, Allen Janis, Gerald J. Massey, Nicholas Rescher, 2014-02-06 The inaugural volume of the Pittsburgh Konstanz series devoted to the work of philosopher Adolf Grünbaum encompasses the philosophical problems of space time and cosmology the nature of scientific methodology and the foundations of psychoanalysis **Mach's Principle** Julian B. Barbour, Herbert Pfister, 1995-08-11 This volume is a collection of scholarly articles on the Mach Principle the impact that this theory has had since the end of the 19th century and its role in helping Einstein formulate the doctrine of general relativity 20th century physics is concerned with the concepts of time space motion inertia and gravity The documentation on all of these makes this book a reference for those who are interested in the history of science and the theory of general relativity **Beyond Einstein** David E. Rowe, Tilman Sauer, Scott A. Walter, 2018-06-18 Beyond Einstein Perspectives on Geometry Gravitation and Cosmology explores the rich interplay between mathematical and physical ideas by studying the interactions of major actors and the roles of important research communities over the course of the last century Einstein from 'B' to 'Z' John

Stachel, 2001-12-10 John Stachel the author of this collection of 37 published and unpublished articles on Albert Einstein has written about Einstein and his work for over 40 years Trained as a theoretical physicist specializing in the theory of relativity he was chosen as the founding editor of The Collected papers of Albert Einstein 25 years ago and is currently Director of the Boston University Center for Einstein Studies Based on a detailed study of documentary evidence much of which was newly discovered in the course of his work Stachel debunks many of the old and some new myths about Einstein and offers novel insight into his life and work Throughout the volume a new more human picture of Einstein is offered to replace the plaster saint of popular legend In particular a youthful Einstein emerges from the obscurity that previously shrouded his early years and much new light is shed on the origins of the special and general theories of relativity Also discussed in some detail are Einstein's troubled relationship with his first wife his friendships with other physicists such as Eddington Bose and Pauli and his Jewish identity The essays are grouped thematically into the following areas The Human Side Editing the Einstein Papers Surveys of Einstein's Work Special Relativity General Relativity Quantum Theory Einstein and Other Scientists Book Reviews Because the essays are independent of one another readers will be able to dip into this collection to satisfy varying interests It will be of particular interest to historians of 20th century science working physicists and students as well as to the many members of the general reading public who continue to be fascinated by aspects of Einstein's life and work Einstein's Unification Jeroen van Dongen, 2010-06-10 Shedding new light on Einstein's study of unified field theory this book will interest physicists historians and philosophers of science The Universe of General Relativity A.J. Kox, Jean Eisenstaedt, 2006-09-10 Outgrowth of 6th Int'l Conference on the History of General Relativity held in Amsterdam on June 26-29 2002 Contributions from notable experts offer both new and historical insights on gravitation general relativity cosmology unified field theory and the history of science Topics run gamut from detailed mathematical discussions to more personal recollections of relativity as seen through the eyes of the public and renowned relativists *Towards a Theory of Spacetime Theories* Dennis Lehmkuhl, Gregor Schiemann, Erhard Scholz, 2017-01-05 This contributed volume is the result of a July 2010 workshop at the University of Wuppertal Interdisciplinary Centre for Science and Technology Studies which brought together world wide experts from physics philosophy and history in order to address a set of questions first posed in the 1950s How do we compare spacetime theories How do we judge objectively which is the best theory Is there even a unique answer to this question The goal of the workshop and of this book is to contribute to the development of a meta theory of spacetime theories Such a meta theory would reveal insights about specific spacetime theories by distilling their essential similarities and differences deliver a framework for a class of theories that could be helpful as a blueprint to build other meta theories and provide a higher level viewpoint for judging which theory most accurately describes nature But rather than drawing a map in broad strokes the focus is on particularly rich regions in the space of spacetime theories This work will be of interest to physicists as well as philosophers and historians of science working with or interested in General Relativity and or Space

Time and Gravitation more generally Studies in the History of General Relativity Jean Eisenstaedt, A.J. Kox, 1992-02-07
Among the considerations of the two dozen papers are the reception and development of Einstein's theory of general relativity in various institutions around the world conceptual issues of the theory especially themes concepts and principles associated with his theory of gravity a number of tech *The Renaissance of General Relativity in Context* Alexander S. Blum, Roberto Lalli, Jürgen Renn, 2020-11-12 This contributed volume explores the renaissance of general relativity after World War II when it transformed from a marginal theory into a cornerstone of modern physics Chapters explore key historical processes related to the theory of general relativity in addition to presenting a thorough treatment of the relevant science behind these episodes A broad historiographical framework is introduced first thus providing the broad context in which the given computational approaches and case studies occurred Written by an international and interdisciplinary group of expert authors these chapters will bring readers to a more complete understanding of Einstein's theory Specific topics include Social and citation networks The Fock Infeld dispute Wheeler's turn to gravitation theory The position of general relativity in theories of fundamental interactions The pursuit of a quantum theory of gravity The emergence of dark matter in relation to cosmological models Institutional frameworks for gravitational wave search in Europe The Renaissance of General Relativity in Context is ideal for historians philosophers and sociologists of science Students and researchers in physics will also be interested in the topics explored *The Problem of Time* Edward Anderson, 2017-09-18 This book is a treatise on time and on background independence in physics It first considers how time is conceived of in each accepted paradigm of physics Newtonian special relativity quantum mechanics QM and general relativity GR Substantial differences are moreover uncovered between what is meant by time in QM and in GR These differences jointly source the Problem of Time Nine interlinked facets which arise upon attempting concurrent treatment of the QM and GR paradigms as is required in particular for a background independent theory of quantum gravity A sizeable proportion of current quantum gravity programs e.g. geometrodynamical and loop quantum gravity approaches to quantum GR quantum cosmology supergravity and M theory are background independent in this sense This book's foundational topic is thus furthermore of practical relevance in the ongoing development of quantum gravity programs This book shows moreover that eight of the nine facets of the Problem of Time already occur upon entertaining background independence in classical rather than quantum physics By this development and interpreting shape theory as modelling background independence this book further establishes background independence as a field of study Background independent mechanics as well as minisuperspace spatially homogeneous models of GR and perturbations thereabout are used to illustrate these points As hitherto formulated the different facets of the Problem of Time greatly interfere with each others attempted resolutions This book explains how none the less a local resolution of the Problem of Time can be arrived at after various reconceptualizations of the facets and reformulations of their mathematical implementation Self contained appendices on mathematical methods for basic and

foundational quantum gravity are included Finally this book outlines how supergravity is refreshingly different from GR as a realization of background independence and what background independence entails at the topological level and beyond

The Attraction of Gravitation John Earman, Michel Janssen, John D. Norton, 1993-12-01 Devoted to the history of general relativity this text provides reviews from scholars all over the world Many of the papers originated at the Third International Conference on the History of General Relativity held at the University of Pittsburgh in the summer of 1991 Topics covered include disputes with Einstein the empirical basis of general relativity variational principles in general relativity the reception and development of general relativity and cosmology and general relativity

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

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