Revisiting the Foundations of Relativistic Physics

Festschrift in Honor of John Stachel

Edited by Abhay Ashtekar, Robert S. Cohen, Don Howard, Jürgen Renn, Sahotra Sarkar and Abner Shimony

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Helge Kragh, Malcolm Longair

Revisiting the Foundations of Relativistic Physics Ashtekar, 2011-06-28 This book is for physicists historians and philosophers of physics as well as students seeking an introduction to ongoing debates in relativistic and quantum physics This title is unique in that it comprises contributions by leading physicists philosophers and historians of science it covers the recent debates on the emergence of relativity and quantum theory it includes chapters with an introductory character comprehensible to students and science teachers it can be used in graduate level courses in the history and philosophy of science it strengthens the bonds between the communities of scientists historians and philosophers 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 Topics In Mathematical Physics General Relativity And Cosmology In Honor Of Jerzy Plebanski - Proceedings Of 2002 International Conference Bogdan Mielnik, Hugo Garcia-compean, Merced Montesinos, Maciej Przanowski, 2006-08-10 One of modern science s most famous and controversial figures Jerzy Plebanski was an outstanding theoretical physicist and an author of many intriguing discoveries in general relativity and quantum theory Known for his exceptional analytic talents explosive character inexhaustible energy and bohemian nights with brandy coffee and enormous amounts of cigarettes he was dedicated to both science and art producing innumerable handwritten articles resembling monk s calligraphy as well as a collection of oil paintings As a collaborator but also an antagonist of Leopold Infeld's a coauthor of Albert Einstein's Plebanski is recognized for designing the heavenly and hyper heavenly equations for introducing new variables to describe the gravitational field for the exact solutions in Einstein s gravity and in quantum theory for his classification of the tensor of matter for some outstanding results in nonlinear electrodynamics and for analyzing general relativity with continuous sources long before Chandrasekhar et al A tribute to Pleba ski s contributions and the variety of his interests this is a unique and wide ranging collection of invited papers covering gravity quantization strings branes supersymmetry ideas on the deformation quantization and lesser known results

Physical Relativity Harvey R. Brown, 2005-11-24 Physical on the continuous Baker Campbell Hausdorff problem Relativity explores the nature of the distinction at the heart of Einstein s 1905 formulation of his special theory of relativity that between kinematics and dynamics Einstein himself became increasingly uncomfortable with this distinction and with the limitations of what he called the principle theory approach inspired by the logic of thermodynamics A handful of physicists and philosophers have over the last century likewise expressed doubts about Einstein's treatment of the relativistic behaviour of rigid bodies and clocks in motion in the kinematical part of his great paper and suggested that the dynamical understanding of length contraction and time dilation intimated by the immediate precursors of Einstein is more fundamental Harvey Brown both examines and extends these arguments which support a more constructive approach to relativistic effects in Einstein's terminology after giving a careful analysis of key features of the pre history of relativity theory. He argues furthermore that the geometrization of the theory by Minkowski in 1908 brought illumination but not a causal explanation of relativistic effects Finally Brown tries to show that the dynamical interpretation of special relativity defended in the book is consistent with the role this theory must play as a limiting case of Einstein s 1915 theory of gravity the general theory of relativity Appearing in the centennial year of Einstein's celebrated paper on special relativity Physical Relativity is an unusual critical examination of the way Einstein formulated his theory It also examines in detail certain specific historical and conceptual issues that have long given rise to debate in both special and general relativity theory such as the conventionality of simultaneity the principle of general covariance and the consistency or otherwise of the special theory with quantum mechanics Harvey Brown s new interpretation of relativity theory will interest anyone working on these central topics in The Routledge Companion to Philosophy of Physics Eleanor Knox, Alastair Wilson, 2021-09-28 The modern physics Routledge Companion to Philosophy of Physics is a comprehensive and authoritative guide to the state of the art in the philosophy of physics It comprisess 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 Symmetry, Structure, and Spacetime Dean Rickles, 2008 In this book Rickles considers several

interpretative difficulties raised by gauge type symmetries those that correspond to no change in physical state The ubiquity of such symmetries in modern physics renders them an urgent topic in philosophy of physics Rickles focuses on spacetime physics and in particular classical and quantum general relativity. Here the problems posed are at their most pathological involving the apparent disappearance of spacetime Rickles argues that both traditional ontological positions should be replaced by a structuralist account according to which relational structure is what the physics is about Unified treatment of gauge symmetries and their relationship to ontology in physics Brings philosophy of space and time into step with developments in modern physics Argues against the received view on the implications of symmetries in physics Provides elementary treatments of technical issues Illustrates a novel defense of structuralism David Hilbert's Lectures on the Foundations of Physics 1915-1927 Tilman Sauer, Ulrich Majer, 2009-08-06 These documents do nothing less than bear witness to one of the most dramatic changes in the foundations of science The book has three sections that cover general relativity epistemological issues and quantum mechanics This fascinating work will be a vital text for historians and philosophers of physics as well as researchers in related physical theories **Building the General Relativity and Gravitation Community During the Cold War** Roberto Lalli,2017-08-21 This monograph presents a new perspective on the history of general relativity It outlines the attempts to establish an institutional framework for the promotion of the field during the Cold War Readers will learn the difficulties that key figures experienced and overcame during this period of global conflict The author analyzes the subtle interconnections between scientific and political factors. He shows how politics shaped the evolution of general relativity even though it is a field with no military applications. He also details how different scientists held guite different views about what political meant in their efforts to pursue international cooperation The narrative examines the specific epistemic features of general relativity that helped create the first official international scientific society It answers Why did relativity bring about this unique result Was it simply the product of specific actions of particular actors having an illuminated view of international relations in the specific context of the Cold War Or was there something in the nature of the field that inspired the actors to pioneer new ways of international cooperation The book will be of interest to historians of modern science historians of international relations and historians of institutions It will also appeal to physicists and interested general readers **Relativity Principles and Theories from Galileo to Einstein** Olivier Darrigol, 2021-12-22 This book is a full long term history of relativity thinking in physics from Galileo s early reflections on the proper reference of mechanical motion to Einstein's exploitation of relativity principles in his theories of special and general relativity Interactions Vincent F. Hendricks, Klaus F. Jørgensen, Jesper Lützen, Stig A. Pedersen, 2007-01-17 The main theme of this anthology is the unique interaction between mathematics physics and philosophy during the beginning of the 20th century In this book ten renowned philosopher historians probe insightfully into key conceptual questions of pre quantum mathematical physics The result is a diverse yet thematically focused compilation of first class papers on mathematics physics and philosophy and a source book on the interaction between them The Oxford Handbook of the History of Modern Cosmology Helge Kragh, Malcolm Longair, 2019-03-06 Scientific and popular literature on modern cosmology is very extensive however scholarly works on the historical development of cosmology are few and scattered The Oxford Handbook of the History of Modern Cosmology offers a comprehensive and authoritative account of the history of cosmology from the late nineteenth century to the early twenty first century It provides historical background to what we know about the universe today including not only the successes but also the many false starts Big Bang theory features prominently but so does the defunct steady state theory. The book starts with a chapter on the pre Einstein period 1860 1910 and ends with chapters on modern developments such as inflation dark energy and multiverse hypotheses The chapters are organized chronologically with some focusing on theory and others more on observations and technological advances A few of the chapters discuss more general ideas relating to larger contexts such as politics economy philosophy and world views Einstein at Work on Unified Field Theory Tobias Schütz, 2024-04-04 This book meticulously examines over one hundred documents of research notes by Albert Einstein many of which were previously unidentified held in the archives of The Hebrew University of Jerusalem and the Einstein Papers Project at Caltech Focused on Einstein's quest for a five dimensional unified field theory of gravitation and electromagnetism the analysis provides unique insights into his mathematical skills thinking and modus operandi This academic exploration also investigates the role of mathematics in Einstein's theorizing with a special focus on projective geometry and delta functions The Genesis of General Relativity Jürgen Renn, 2007-02-16 This four volume work represents the most comprehensive documentation and study of the creation of general relativity Einstein's 1912 Zurich notebook is published for the first time in facsimile and transcript and commented on by today s major historians of science Additional sources from Einstein and others who from the late 19th to the early 20th century contributed to this monumental development are presented here in translation for the first time The volumes offer detailed commentaries and analyses of these sources that are based on a close reading of these documents supplemented by interpretations by the leading historians of relativity **Adventures In Quantumland:** Exploring Our Unseen Reality Ruth E Kastner, 2019-04-17 This title is a self contained follow up to Understanding Our Unseen Reality Solving Quantum Riddles 2015 Intended for the general reader but including more advanced material and an appendix of technical references for physics students and researchers it reviews the basics of the transactional interpretation of quantum mechanics in its newer incarnation as a fully relativistic realist interpretation of quantum theory while embarking on further explorations of the implications of quantum theory This interpretation is applied to new experiments and alleged paradoxes that are found to be fully explicable once various misconceptions are identified There is currently much disagreement about the meaning of quantum theory as well as confusion about the implications of various experiments such as weak measurements quantum eraser and delayed choice This book provides a clear way forward presenting new

developments and elaborating a promising interpretational approach that has completely nullified earlier objections such as the Maudlin objection It also explains why some prominent competing interpretations such as decoherence in an Everettian Many Worlds approach do not work as advertised Adventures in Quantumland Exploring Our Unseen Reality offers a fully relativistic interpretation of quantum mechanics with no discontinuity between non relativistic and relativistic domains and shows how quantum theory allows for free will and for reconciliation of science and spiritual traditions Related Link s

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 <u>Independence in Classical and Quantum Gravity James Read</u>, 2024-02 It is often claimed that any quantum theory of gravity needs its defining equations to be independent of a particular spacetime geometry James Read illuminates our understanding of background independence by mapping its possible definitions and assessing how various classical and quantum theories of Physical Theory Lawrence Sklar, 2014-09-30 In nine new essays distinguished philosophers gravity fare on these criteria of science take on outstanding philosophical issues that arise in the exploration of the foundations of contemporary especially physical scientific theories In the first part of the book issues of scientific method are explored What are we asking when we pose scientific why questions How does probability play a role in answering such questions What are scientific laws of nature How can we understand what abstract theories are telling us about the world What is the structure of the theories we use to explain the observable phenomena Finally how do theories evolve over time and what consequence do such changes have for our intuition that science is seeking the truth In the second part of the volume foundational issues are explored in a number of crucial physical theories What do our best available theories tell us about space and time When we apply quantum theory to fields or other systems with infinite degrees of freedom what new foundational puzzles appear and how might a theory of interpretation deal with them Finally what are the crucial foundational issues in statistical mechanics where probabilities are applied to explain macroscopic thermal phenomena Positioning the History of Science Kostas Gavroglu, Jürgen

Renn,2007-05-05 The present volume compiled in honor of an outstanding historian of science physicist and exceptional human being Sam Schweber is unique in assembling a broad spectrum of positions on the history of science by some of its leading representatives Readers will find it illuminating to learn how prominent authors judge the current status and the future perspectives of their field Students will find this volume helpful as a guide in a fragmented field that continues to be dominated by idiosyncratic expertise and that still lacks a methodical canon The essays were written in response to our invitation to explicate the views of the authors concerning the state of the history of science today and the issues we felt are related to its future Although not all the scholars invited to write have contributed an essay this volume can nevertheless be considered as a rather comprehensive survey of the present state of the history of science All the papers collected here reflect in one wayor another the strong influence Sam Schweber exerted during the past decades in his gentle way on the history of science as well as on the lives of many of its protagonists worldwide All who have had the opportunity of encountering him have benefited from his advice benevolence and friendship Sam Schweber's intellectual taste his passion for knowledge and his erudition are all encompassing It therefore seemed fitting to honor him with a collection of essays of Einstein's Unification Jeroen van Dongen, 2010-06-10 Why did Einstein comparable breadth nothing less would suffice tirelessly study unified field theory for more than thirty years In this book the author argues that Einstein believed he could find a unified theory of all of nature s forces by repeating the methods he thought he had used when he formulated general relativity The book discusses Einstein's route to the general theory of relativity focusing on the philosophical lessons that he learnt It then addresses his quest for a unified theory for electromagnetism and gravity discussing in detail his efforts with Kaluza Klein and surprisingly the theory of spinors From these perspectives Einstein's critical stance towards the quantum theory comes to stand in a new light This book will be of interest to physicists historians and philosophers of science

Philosophers and Einstein's Relativity Chiara Russo Krauss, Luigi Laino, 2023-09-30 This book offers an up to date insight into the early philosophical debate on Einsteinian relativity The essays explore the reception and interpretation of Einstein's ideas by some of the most important philosophical schools of the time such as logical positivism Reichenbach neo Kantianism Cassirer Natorp critical realism Sellars and radical empiricism Mach The book is aimed at physicists and historians of science researching the epistemological implications of the theory of relativity as well as to scholars in philosophy interested in understanding how leading philosophical figures of the early twentieth century reacted to the relativistic revolution

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