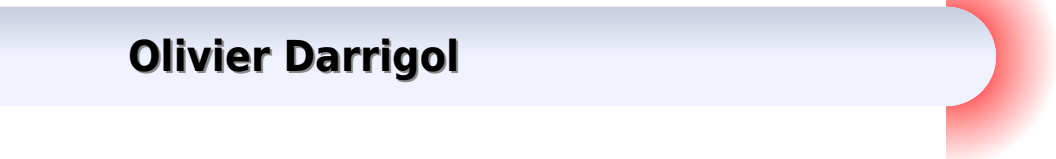


Dennis Lehmkuhl
Gregor Schiemann
Erhard Scholz
Editors

Towards a Theory of Spacetime Theories

Towards Spacetime Theories Einstein Studies

Olivier Darrigol



Towards Spacetime Theories Einstein Studies:

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 *The Non-Fundamentality of Spacetime* Kian Salimkhani, 2023-10-06 This book argues that our current best theories of fundamental physics are best interpreted as positing spacetime as non fundamental It is written in accessible language and largely avoids mathematical technicalities by instead focusing on the key metaphysical and foundational lessons for the fundamentality of spacetime According to orthodoxy spacetime and spatiotemporal properties are regarded as fundamental structures of our world Spacetime fundamentalism however faces challenges from speculative theories of quantum gravity roughly speaking the project of applying the lessons of quantum mechanics to gravitation and spacetime This book demonstrates that the non fundamentality of spacetime does not rely on speculative physics alone Rather one can give an interpretation of general relativity that supports some form of spacetime non fundamentalism The author makes the case for spacetime non fundamentalism in three steps First he confronts the standard geometrical interpretation of general relativity with Brown and Pooley s dynamical approach to relativity theory Second he considers an alternative derivation of the Einstein field equations namely the classical spin 2 approach and argues that it paves the way for a refined dynamical approach to general relativity Finally he argues that particle physics can serve as a continuity condition for the metaphysics of spacetime *The Non Fundamentality of Spacetime* will be of interest to scholars and advanced students working in philosophy of physics philosophy of science and metaphysics *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

Foundations of Space-Time Theories John Earman, Clark N. Glymour, John J. Stachel, 1977-11-25 Foundations of Space Time Theories was first published in 1977 Minnesota Archive Editions uses digital technology to make long unavailable books once again accessible and are published unaltered from the original University of Minnesota Press editions The essays in this volume are based on the papers given at a conference on the philosophical aspects of the space time theory held under the auspices of the Minnesota Center for Philosophy of Science

Relativity Principles and Theories from Galileo to Einstein Olivier Darrigol, 2021-12-22 Motion is always relative to some thing Is this thing a concrete body like the earth is it an abstract space or is it an imagined frame Do the laws of physics depend on the choice of reference Is there a choice for which the laws are simplest Is this choice unique Is there a physical cause for the choice made These questions traverse the history of modern physics from Galileo to Einstein The answers involved Galilean relativity Newton's absolute space the purely relational concepts of Descartes Leibniz and Mach and many forgotten uses of relativity principles in mechanics optics and electrodynamics until the relativity theories of Poincaré Einstein Minkowski and Laue radically redefined space and time to satisfy universal kinds of relativity Accordingly this book retraces the emergence of relativity principles in early modern mechanics documents their constructive use in eighteenth and nineteenth century mechanics optics and electrodynamics and gives a well rooted account of the genesis of special and general relativity in the early twentieth century As an exercise in long term history it demonstrates the connectivity of issues and approaches across several centuries despite enormous changes in context and culture As an account of the genesis of relativity theories it brings unprecedented clarity and fullness by broadening the spectrum of resources on which the principal actors drew

Understanding Space-Time Robert DiSalle, 2006-04-27 Presenting the history of space time physics from Newton to Einstein as a philosophical development DiSalle reflects our increasing understanding of the connections between ideas of space and time and our physical knowledge He suggests that philosophy's greatest impact on physics has come about less by the influence of philosophical hypotheses than by the philosophical analysis of concepts of space time and motion and the roles they play in our assumptions about physical objects and physical measurements This way of thinking leads to interpretations of the work of Newton and Einstein and the

connections between them It also offers ways of looking at old questions about a priori knowledge the physical interpretation of mathematics and the nature of conceptual change Understanding Space Time will interest readers in philosophy history and philosophy of science and physics as well as readers interested in the relations between physics and philosophy *CPT Invariance and the Spin-Statistics Connection* Jonathan Bain, 2016-04-08 This book seeks to answer the question What explains CPT invariance and the spin statistics connection These properties play foundational roles in relativistic quantum field theories RQFTs are supported by high precision experiments and figure into explanations of a wide range of phenomena from antimatter to the periodic table of the elements to superconductors and superfluids They can be derived in RQFTs by means of the famous CPT and Spin Statistics theorems but the author argues these theorems cannot be said to explain these properties at least under standard philosophical accounts of scientific explanation This is because there are multiple in some cases incompatible ways of deriving these theorems and secondly because the theorems fail for the types of theories that underwrite the empirical evidence non relativistic quantum theories and realistic interacting RQFTs The goal of this book is to work towards an understanding of CPT invariance and the spin statistics connection by first providing an analysis of the necessary and sufficient conditions for these properties and second by advocating a particular account of explanation appropriate for this context *Hajnal Andr ka and István N meti on Unity of Science* Judit Madarász, Gergely Székely, 2021-05-31 This book features more than 20 papers that celebrate the work of Hajnal Andr ka and István N meti It illustrates an interaction between developing and applying mathematical logic The papers offer new results as well as surveys in areas influenced by these two outstanding researchers They also provide details on the after life of some of their initiatives Computer science connects the papers in the first part of the book The second part concentrates on algebraic logic It features a range of papers that hint at the intricate many way connections between logic algebra and geometry The third part explores novel applications of logic in relativity theory philosophy of logic philosophy of physics and spacetime and methodology of science They include such exciting subjects as time travelling in emergent spacetime The short autobiographies of Hajnal Andr ka and István N meti at the end of the book describe an adventurous journey from electric engineering and Maxwell s equations to a complex system of computer programs for designing Hungary s electric power system to exploring and contributing deep results to Tarskian algebraic logic as the deepest core theory of such questions then on to applications of the results in such exciting new areas as relativity theory in order to rejuvenate logic itself *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

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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