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THE FOUNDATIONS OF SPACETIME PHYSICS

PHILOSOPHICAL PERSPECTIVES

Edited by
Antonio Vassallo



Philosophy And Spacetime Physics

Lawrence Sklar



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The Foundations of Spacetime Physics Antonio Vassallo, 2022-09-30 This book provides an up to date overview of the foundations of spacetime physics It features original essays written by world class experts in the physics and philosophy of spacetime The foundational questions regarding the origin and nature of spacetime are branching into new and exciting directions These questions are not restricted to the quantum gravity program but also arise in the context of a well established theory like general relativity Against the background of these quick and diverse developments this volume features a broad range of perspectives on spacetime Part I focuses on the nature of spacetime in non quantum theories such as Newtonian mechanics and relativity Part II explores some intriguing conceptual implications of developing a quantum theory of spacetime The Foundations of Spacetime Physics is an essential resource for scholars and advanced students working in philosophy of physics philosophy of science and scientific metaphysics

Philosophy of Physics Tim Maudlin, 2015-05-26 Philosophical foundations of the physics of space time This concise book introduces nonphysicists to the core philosophical issues surrounding the nature and structure of space and time and is also an ideal resource for physicists interested in the conceptual foundations of space time theory Tim Maudlin s broad historical overview examines Aristotelian and Newtonian accounts of space and time and traces how Galileo s conceptions of relativity and space time led to Einstein s special and general theories of relativity Maudlin explains special relativity with enough detail to solve concrete physical problems while presenting general relativity in more qualitative terms Additional topics include the Twins Paradox the physical aspects of the Lorentz FitzGerald contraction the constancy of the speed of light time travel the direction of time and more Introduces nonphysicists to the philosophical foundations of space time theory Provides a broad historical overview from Aristotle to Einstein Explains special relativity geometrically emphasizing the intrinsic structure of space time Covers the Twins Paradox Galilean relativity time travel and more Requires only basic algebra and no formal knowledge of physics

Reflections on Spacetime Ulrich Majer, Heinz-Jürgen Schmidt, 2013-03-14 REFLECTIONS ON SPACETIME FOUNDATIONS PHILOSOPHY AND HISTORY During the academic year 1992/93 an interdisciplinary research group constituted itself at the Zentrum für interdisziplinäre Forschung (ZiF) in Bielefeld Germany under the title Semantical Aspects of Spacetime Theories in which philosophers and physicists worked on topics in the interpretation and history of relativity theory The present issue consists of contributions resulting from material presented and discussed in the group during the course of that year The scope of the papers ranges from rather specialised issues arising from general relativity such as the problem of referential indeterminacy to foundational questions regarding spacetime in the work of Carnap, Weyl and Hilbert It is well known that the General Theory of Relativity (GTR) admits spacetime models which are exotic in the sense that observers could travel into their own past This poses a number of problems for the physical interpretation of GTR which are

also relevant in the philosophy of spacetime It is not enough to exclude these exotic models simply by stating that we live in a non exotic universe because it might be possible to operate time machines by actively changing the topology of the future part of spacetime In his contribution Earman first reviews the attempts of physicists to prove chronology protection theorems CPTs which exclude the operation of time machines under reasonable assumptions

Seven Fundamental Concepts in Spacetime Physics Vesselin Petkov,2024-01-12 The book presents seven fundamental concepts in spacetime physics mostly by following Hermann Minkowski s revolutionary ideas summarized in his 1908 lecture Space and Time These concepts are spacetime inertial and accelerated motion in spacetime physics the origin and nature of inertia in spacetime physics relativistic mass gravitation gravitational waves and black holes They have been selected because they appear to be causing most misconceptions and confusion in spacetime physics This second edition has been revised to include additional clarifications more detailed elaboration of the arguments and also new material published in the interim

Space, Time, and Spacetime Lawrence Sklar,2023-07-28 In this book Lawrence Sklar demonstrates the interdependence of science and philosophy by examining a number of crucial problems on the nature of space and time problems that require for their resolution the resources of philosophy and of physics The overall issues explored are our knowledge of the geometry of the world the existence of spacetime as an entity over and above the material objects of the world the relation between temporal order and causal order and the problem of the direction of time Without neglecting the most subtle philosophical points or the most advanced contributions of contemporary physics the author has taken pains to make his explorations intelligible to the reader with no advanced training in physics mathematics or philosophy The arguments are set forth step by step beginning from first principles and the philosophical discussions are supplemented in detail by nontechnical expositions of crucial features of physical theories In this book Lawrence Sklar demonstrates the interdependence of science and philosophy by examining a number of crucial problems on the nature of space and time problems that require for their resolution the resources of philosophy and of physics

Philosophy Beyond Spacetime Christian Wüthrich,Baptiste Le Bihan,Nick Huggett,2021 Philosophy Beyond Spacetime assesses the state of play in the philosophy of quantum gravity Research in this field aims at a unified theory in which quantum matter is related dynamically to relativistic spacetime This volume highlights the conceptual questions involved showing how physics and metaphysics can illuminate each other

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 **Dictionary of Modern American**

Philosophers John R. Shook, 2005-01-01 The Dictionary of Modern American Philosophers includes both academic and non academic philosophers and a large number of female and minority thinkers whose work has been neglected It includes those intellectuals involved in the development of psychology pedagogy sociology anthropology education theology political science and several other fields before these disciplines came to be considered distinct from philosophy in the late nineteenth century Each entry contains a short biography of the writer an exposition and analysis of his or her doctrines and ideas a bibliography of writings and suggestions for further reading While all the major post Civil War philosophers are present the most valuable feature of this dictionary is its coverage of a huge range of less well known writers including hundreds of presently obscure thinkers In many cases the Dictionary of Modern American Philosophers offers the first scholarly treatment of the life and work of certain writers This book will be an indispensable reference work for scholars working on almost any aspect of modern American thought **Space, Time, and Spacetime** Lawrence Sklar, 1977-03-15 In this book Lawrence Sklar

demonstrates the interdependence of science and philosophy by examining a number of crucial problems on the nature of space and time problems that require for their resolution the resources of philosophy and of physics The overall issues explored are our knowledge of the geometry of the world the existence of spacetime as an entity over and above the material objects of the world the relation between temporal order and causal order and the problem of the direction of time Without neglecting the most subtle philosophical points or the most advanced contributions of contemporary physics the author has taken pains to make his explorations intelligible to the reader with no advanced training in physics mathematics or philosophy The arguments are set forth step by step beginning from first principles and the philosophical discussions are supplemented in detail by nontechnical expositions of crucial features of physical theories **Cartesian Spacetime** E.

Slowik, 2013-03-14 Although Descartes' natural philosophy marked an advance in the development of modern science many critics over the years such as Newton have rejected his particular relational theory of space and motion Nevertheless it is also true that most historians and philosophers have not sufficiently investigated the viability of the Cartesian theory This book explores consequently the success of the arguments against Descartes' theory of space and motion by determining if it is possible to formulate a version that can eliminate its alleged problems In essence this book comprises the first sustained attempt to construct a consistent Cartesian spacetime theory that is a theory of space and time that consistently incorporates Descartes' various physical and metaphysical concepts Intended for students in the history of philosophy and science this study reveals the sophisticated insights and often quite successful elements in Descartes' unjustly neglected relational theory of space and motion *Incarnation and Physics* Tapio Luoma, 2002-08-15 Thomas F Torrance is the most prominent

theologian to have taken seriously the challenge posed to theology by the natural sciences His model for interaction between the two disciplines is based on the theological heart of the Church the Incarnation Luoma here offers a thorough overview and critique of Torrance's insights into the theology science dialogue The Deep Metaphysics of Space Edward Slowik,2016-10-12 This volume explores the inadequacies of the two standard conceptions of space or spacetime substantivalism and relationism and in the process proposes a new historical interpretation of these physical theories This book also examines and develops alternative ontological conceptions of space and explores additional historical elements of seventeenth century theories and other metaphysical themes The author first discusses the two main opposing theories of the ontology of space One known as substantivalism proposes space to be an entity that can exist independently of material things The other relationism contends that space is a relation among material things Readers will learn about specific problems with this dichotomy First Newton and Leibniz are often upheld as the retrospective forerunners of substantivalism and relationism But their work often contradicts the central tenets of these views Second these theories have proven problematic when transferred to a modern setting especially with regards to general relativity and the recent quantum gravity hypotheses The author details an alternative set of concepts that address these problems The author also develops a new classificational system that provides a more accurate taxonomy for the elements of all spatial ontologies This classification obtains successful analogies between Newton Leibniz and other natural philosophers with contemporary physical theories **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 **Symmetry, Structure, and Spacetime** Dean Rickles,2007-11-12 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 *Background Independence in Classical and Quantum Gravity* James Read,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

gravity fare on these criteria Physical Theory Lawrence Sklar,2014 In nine new essays distinguished philosophers of science discuss outstanding issues in scientific methodology especially that of the physical sciences and address philosophical questions that arise in the exploration of the foundations of contemporary science **Perspectives on Time** Jan Faye,Uwe Scheffler,Max Urchs,2013-06-29 Perspectives on Time deals with the problem of time from different perspectives such as logic physics and philosophy It contains 18 previously unpublished papers written by philosophers from various European countries as well as a large introduction about the history and the main situation in the respective fields today The prominent issues which are addressed in this book concern the direction of time the reality of tenses the objectivity of becoming the existence in time and the logical structures of reasoning about time The papers have been written based on different approaches partly depending on whether the authors subscribe to an A theory or a B theory of time Audience Due to the broad variety of approaches the book contains important contributions both for philosophers philosophers of science logicians and for scientists working in the field of language and AI **Out of Nowhere** Christian Wüthrich,Nick Huggett,2025 Huggett and W thrich explore loop quantum gravity and string theory which unify the two main pillars of contemporary physics quantum theory of the small and general relativity of gravity and the large These theories promise a revolution in our understanding of space and time that would outdo Einstein s

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