

**Philosophy
and
Spacetime
Physics**

**Lawrence
Sklar**

Philosophy And Spacetime Physics

Vesselin Petkov



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Philosophy and Spacetime Physics Lawrence Sklar,1985 *Philosophy and Spacetime Physics* Lawrence Sklar,1985

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

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

DIV *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.

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.

Foundations of Space-Time Theories Michael Friedman, 2014-07-14 This book explores the conceptual foundations of Einstein's theory of relativity, the fascinating yet tangled web of philosophical, mathematical, and physical ideas that is the source of the theory's enduring philosophical interest. Originally published in 1983, *The Princeton Legacy Library* uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

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

Dictionary Of Modern American Philosophers John R. Shook, 2005-05-15 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

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, 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

Space, Time, and Spacetime Vesselin Petkov, 2010-09-02 Dedicated to the centennial anniversary of Minkowski's discovery of spacetime this volume contains papers most presented at the Third International Conference on the Nature and Ontology of Spacetime that address

some of the deepest questions in physics **Spacetime and Electromagnetism** John Randolph Lucas, Peter Edward Hodgson, 1990 Certain fundamental concepts are vital to understanding the world around us such as spacetime covered by the special theory of relativity and causality the effect of random events promoted by electromagnetism Discussing these the authors support a rationalist view of physics **Physical Relativity** Harvey R. Brown, 2005-11-24 Physical 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 modern physics **Zeeman Topologies and the Causal Theory of Spacetime** Thomas A. Medynski, 2002 **The Dictionary of Modern American Philosophers: R-Z** John R. Shook, Richard T. Hull, 2005 This biographical dictionary contains around 900 entries on philosophers and other intellectuals who impacted philosophical thought in America from 1860 to the present i.e. 2005 Space, Time and Einstein J.B. Kennedy, 2014-12-18 This introduction to one of the liveliest and most popular fields in philosophy is written specifically for a beginning readership with no background in philosophy or science Step by step analyses of the key arguments are provided and the philosophical heart of the issues is revealed without recourse to jargon maths or logical formulas The book introduces Einstein's revolutionary ideas in a clear and simple way along with the concepts and arguments of philosophers both ancient and modern that have proved of lasting value Specifically the theories of the ancient Greek philosophers Zeno Euclid and Parmenides are considered alongside the ideas of Newton Leibniz and Kant as well as the giants of twentieth century physics Einstein and Lorentz The problems at the heart of

the philosophy of space and time such as change motion infinity shape and inflation are examined and the seismic impact made by relativity theory and quantum theory is assessed in the light of the latest research The writing is lucid and entertaining allowing a beginning readership to grasp some difficult concepts while offering the more experienced reader a succinct and illuminating presentation of the state of the debate Space Time and Einstein shows the reader the excitement of scientific discovery and the beauty of theory in the search for answers to these fundamental questions

Underdetermination and the Claims of Science P. D. Magnus,2003 Seven Fundamental Concepts in Spacetime Physics Vesselin Petkov,2021-06-13 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

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