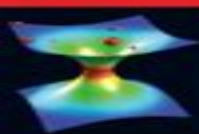


# 100 Years *of* Relativity

Space-Time Structure:  
Einstein and Beyond

Abhay Ashtekar  
*editor*

100 Years  
*of*  
Relativity



Space-Time Structure:  
Einstein and Beyond

# Space Time Structure

**Shyam Wuppuluri, Giancarlo Ghirardi**



## Space Time Structure:

*Space-Time Structure* Erwin Schrödinger, 1985-10-17 In response to repeated requests this classic book on space time structure by Professor Erwin Schrödinger is now available in the Cambridge Science Classics series First published in 1950 and reprinted in 1954 and 1960 this lucid and profound exposition of Einstein's 1915 theory of gravitation still provides valuable reading for students and research workers in the field *The Large Scale Structure of Space-Time* Stephen Hawking, G. F. R. Ellis, 1973 This 1973 book discusses Einstein's General Theory of Relativity and its predictions concerning black holes and singularities in space time itself *Gravitation: the Spacetime Structure: Proceedings Of The VIII Latin American Symposium On Relativity And Gravitation* Patricio S Letelier, Waldyr A Rodrigues Jr, 1994-07-27 This volume contains five mini courses Nakedly Singular Solutions of Einstein's Equations K Lake Clifford Algebras Relativity and Quantum Mechanics P Lounesto Numerical Relativity and Dynamical Evolution of Black Hole Spacetimes R Matzner Soliton and Vacua in Relativity Theory Revisited G W Gibbons Cosmic Strings and Their Observational Consequences E P S Shellard and seventy seven research papers by Latin American scientists **100 Years Of Relativity: Space-time Structure - Einstein And Beyond** Abhay Ashtekar, 2005-11-22 Thanks to Einstein's relativity theories our notions of space and time underwent profound revisions about a 100 years ago The resulting interplay between geometry and physics has dominated all of fundamental physics since then This volume contains contributions from leading researchers worldwide who have thought deeply about the nature and consequences of this interplay The articles take a long range view of the subject and distill the most important advances in broad terms making them easily accessible to non specialists The first part is devoted to a summary of how relativity theories were born J Stachel The second part discusses the most dramatic ramifications of general relativity such as black holes P Chrusciel and R Price space time singularities H Nicolai and A Rendall gravitational waves P Laguna and P Saulson the large scale structure of the cosmos T Padmanabhan experimental status of this theory C Will as well as its practical application to the GPS system N Ashby The last part looks beyond Einstein and provides glimpses into what is in store for us in the 21st century Contributions here include summaries of radical changes in the notions of space and time that are emerging from quantum field theory in curved space times Ford string theory T Banks loop quantum gravity A Ashtekar quantum cosmology M Bojowald discrete approaches Dowker Gambini and Pullin and twistor theory R Penrose *The Large Scale Structure of Space-Time* Stephen W. Hawking, George F. R. Ellis, 2023-02-16 First published in 1973 this influential work discusses Einstein's General Theory of Relativity to show how two of its predictions arise first that the ultimate fate of many massive stars is to undergo gravitational collapse to form black holes and second that there was a singularity in the past at the beginning of the universe Starting with a precise formulation of the theory including the necessary differential geometry the authors discuss the significance of space time curvature and examine the properties of a number of exact solutions of Einstein's field equations They develop the theory of the causal structure of a general space

time and use it to prove a number of theorems establishing the inevitability of singularities under certain conditions A Foreword contributed by Abhay Ashtekar and a new Preface from George Ellis help put the volume into context of the developments in the field over the past fifty years

**Global Spacetime Structure** JB Manchak, 2020-12-03 This exploration of the global structure of spacetime within the context of general relativity examines the causal and singular structures of spacetime revealing some of the curious possibilities that are compatible with the theory such as time travel and holes of various types Investigations into the epistemic and modal structures of spacetime highlight the difficulties in ruling out such possibilities unlikely as they may seem at first The upshot seems to be that what counts as a physically reasonable spacetime structure in modern physics is far from clear

*Relativity: Modern Large-scale Spacetime Structure Of The Cosmos* Moshe Carmeli, 2008-12-04 This book describes Carmeli's cosmological general and special relativity theory along with Einstein's general and special relativity These theories are discussed in the context of Moshe Carmeli's original research in which velocity is introduced as an additional independent dimension Four and five dimensional spaces are considered and the five dimensional braneworld theory is presented The Tully Fisher law is obtained directly from the theory and thus it is found that there is no necessity to assume the existence of dark matter in the halo of galaxies nor in galaxy clusters The book gives the derivation of the Lorentz transformation which is used in both Einstein's special relativity and Carmeli's cosmological special relativity theory The text also provides the mathematical theory of curved space time geometry which is necessary to describe both Einstein's general relativity and Carmeli's cosmological general relativity A comparison between the dynamical and kinematic aspects of the expansion of the universe is made Comparison is also made between the Friedmann Robertson Walker theory and the Carmeli theory And neither is it necessary to assume the existence of dark matter to correctly describe the expansion of the cosmos

*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

**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

**Space, Time, and Stuff** Frank Arntzenius, Cian Seán Dorr, 2012-01-19 Frank Arntzenius presents a series of radical ideas about the structure of space and time and establishes a new metaphysical position which holds that the fundamental structure of the physical world is purely geometrical structure He argues that we should broaden our conceptual horizons and accept that spaces other than spacetime may exist

**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

**Time and Space** Barry Francis Dainton, 2010-01-01 Surveying both historical debates and modern physics Barry Dainton evaluates the central arguments in a clear and unintimidating way that keeps conceptual issues comprehensible to students with little scientific or mathematical training and makes the philosophy of space and time accessible to anyone trying to come to grips with the complexities of this challenging subject With over 100 original line illustrations and a full glossary of terms Time and Space keeps the requirements of students firmly in sight and will continue to serve as the ideal textbook for philosophy of time and space courses

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 Emergence of Spacetime in String Theory* Tiziana Vistarini, 2019-06-12 The nature of space and time is one of the most fascinating and fundamental philosophical issues which presently engages at the deepest level with physics During the last thirty years this notion has been object of an intense critical review in the light of new scientific theories which try to combine the principles of both general relativity and quantum theory called theories of quantum gravity This book considers the way string theory shapes its own account of spacetime disappearance from the fundamental level

Worldviews, Science and Us Robrecht Vanderbeeken, Bart D'Hooghe, 2010 This volume brings together the lectures presented at the 5th Metaphysics of Science Workshop held from June 2 to 3 2005 in Ghent Belgium The aim of this volume is twofold First it fields a selection of ongoing discussions on a central topic in contemporary analytical

metaphysics Authors were asked to encapsulate their lecture topic into a pr cis highlighting the contesting views accentuating the pro and contra of the main arguments and shedding light on the origin the evolution and the eventual offspring of a respective discussion Second this volume addresses the methodological question by examining what can be learned if we compare these discussions from a methodological perspective What are the red herrings and shortcomings Is an integrated methodology possible Does each discussion finally await a pluralism of plausible positions or will an overall convincing account be expected And finally can analytical metaphysics methodologically assert and investigate their basic assumptions if not from a common sense stance

**A Collection of Polish Works on Philosophical Problems of Time and Spacetime** Helena Eilstein,2013-04-17 This is a collection of some works of Polish philosophers and physicists on philosophical problems of time and spacetime Without restricting the thematic scope of the papers the issue concerning objectivity of time flow runs as a uniting thread through most of them Partly it is discussed directly and partly the authors focus on themes which are of paramount importance for one s attitude to that question In the first six papers the authors deal with their topics against the background of contemporary physics its theories its difficulties and discussed conjectures For the paper of S Snihur that background is provided by everyday world outlook and the author discusses the problem of existence and character of the future in the light of basic principles of classical logic The paper of A P61tawski about the views of the outstanding polish philosopher Roman Ingarden enriches the thematic scope of the collection introducing into it some questions from philosophical anthropology and ethics JERZY GOLOSZ MOTION SPACE TIME Abstract The paper discusses the properties of spacetime we study by analyzing the phenomenon of motion Of special interest are the spacetime symmetries the spacetime structures and the ontological status of spacetime These problems are considered on the grounds of the classical theories of motion contained in Newtonian physics special and general theory of relativity The controversy between an absolute and a relational conception of motion and its ontological implications are also analyzed

**The Structure of the World** Steven French,2014 Steven French articulates and defends the bold claim that there are no objects in the world He draws on metaphysics and philosophy of science to argue for structural realism the position that we live in a world of structures and defends a form of eliminativism about objects that sets laws and symmetry principles at the heart of ontology

**Space, Time and the Limits of Human Understanding** Shyam Wuppuluri,Giancarlo Ghirardi,2016-12-01 In this compendium of essays some of the world s leading thinkers discuss their conceptions of space and time as viewed through the lens of their own discipline With an epilogue on the limits of human understanding this volume hosts contributions from six or more diverse fields It presumes only rudimentary background knowledge on the part of the reader Time and again through the prism of intellect humans have tried to diffract reality into various distinct yet seamless atomic yet holistic independent yet interrelated disciplines and have attempted to study it contextually Philosophers debate the paradoxes or engage in meditations dialogues and reflections on the content and nature of space and time Physicists too have

been trying to mold space and time to fit their notions concerning micro and macro worlds Mathematicians focus on the abstract aspects of space time and measurement While cognitive scientists ponder over the perceptual and experiential facets of our consciousness of space and time computer scientists theoretically and practically try to optimize the space time complexities in storing and retrieving data information The list is never ending Linguists logicians artists evolutionary biologists geographers etc all are trying to weave a web of understanding around the same duo However our endeavour into a world of such endless imagination is restrained by intellectual dilemmas such as Can humans comprehend everything Are there any limits Can finite thought fathom infinity We have sought far and wide among the best minds to furnish articles that provide an overview of the above topics We hope that through this journey a symphony of patterns and tapestry of intuitions will emerge providing the reader with insights into the questions What is Space What is Time Chapter 15 of this book is available open access under a CC BY 4 0 license [The Tenseless Theory of Time](#) W.L. Craig, 2013-03-09 he present book and its companion volume The Tensed Theory of Time a T Critical Examination are an attempt to adjudicate what one recent discussant has called the most fundamental question in the philosophy of time namely whether a static or a dynamic conception of the world is correct I had originally intended to treat this question in the space of a single volume but the study swelled into two I found that an adequate appraisal of these two competing theories of time requires a wide ranging discussion of issues in metaphysics philosophy of language phenomenology philosophy of science philosophy of space and time and even philosophy of religion and that this simply could not be done in one volume If these volumes succeed in making a contribution to the debate it will be precisely because of the synoptic nature of the discussion therein Too often the question of the nature of time has been prematurely answered by some philosopher or physicist simply because he is largely ignorant of relevant discussions outside his chosen field of expertise In these two complementary but independent volumes I have attempted to appraise what I take to be the most important arguments drawn from a variety of fields for and against each theory of time



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