

**The Reign of Relativity:
Philosophy in Physics
1915–1925**

Thomas Ryckman

OXFORD UNIVERSITY PRESS

Reign Of Relativity Philosophy In Physics 1915 1925

Thomas Uebel



Reign Of Relativity Philosophy In Physics 1915 1925:

The Reign of Relativity Thomas Ryckman, 2005 Einstein's theory of general relativity 1915 was a defining event for 20th century philosophy of science During the decisive first ten years of the theory's existence two main ideas dominated its philosophical reception Ryckman's book is an extended argument concerning these ideas *Epistemology of Experimental Gravity - Scientific Rationality* Nicolae Sfetcu, 2019 The evolution of gravitational tests from an epistemological perspective framed in the concept of rational reconstruction of Imre Lakatos based on his methodology of research programmes Unlike other works on the same subject the evaluated period is very extensive starting with Newton's natural philosophy and up to the quantum gravity theories of today In order to explain in a more rational way the complex evolution of the gravity concept of the last century I propose a natural extension of the methodology of the research programmes of Lakatos that I then use during the paper I believe that this approach offers a new perspective on how evolved over time the concept of gravity and the methods of testing each theory of gravity through observations and experiments I argue based on the methodology of the research programmes and the studies of scientists and philosophers that the current theories of quantum gravity are degenerative due to the lack of experimental evidence over a long period of time and of self immunization against the possibility of falsification Moreover a methodological current is being developed that assigns a secondary unimportant role to verification through observations and or experiments For this reason it will not be possible to have a complete theory of quantum gravity in its current form which to include to the limit the general relativity since physical theories have always been adjusted during their evolution based on observational or experimental tests and verified by the predictions made Also contrary to a widespread opinion and current active programs regarding the unification of all the fundamental forces of physics in a single final theory based on string theory I argue that this unification is generally unlikely and it is not possible anyway for a unification to be developed based on current theories of quantum gravity including string theory In addition I support the views of some scientists and philosophers that currently too much resources are being consumed on the idea of developing quantum gravity theories and in particular string theory to include general relativity and to unify gravity with other forces as long as science does not impose such research programs

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as Moritz Schlick Otto Neurath Rudolf Carnap and Hans Hahn gathered to discuss the foundations of science and mathematics Known as the Vienna Circle they proposed to practice philosophy in continuity with science their movement became known as Logical Empiricism In this highly engaging book Sahotra Sarkar tells the story of one hundred years of Logical Empiricism from its beginnings in 1924 to its legacy today He explains how its ideas influenced by revolutionary theories of space time and causality of that time led to a quest for a unified theory of science He shows how their commitment to logic and objectivity provided a powerful political antidote to Nazi racism and obscurantism He charts the decline of the movement after many members who had fled to the United States during World War Two were presumed to have communist sympathies and subjected to surveillance and harrassment He argues that the ideas of the movement continue to be relevant today A superb evocation of one of the most important intellectual movements of the twentieth century The Vienna Circle The Story of Logical Empiricism will be of great value to anyone interested in philosophy history and the history of science

The New Century Keith Ansell-Pearson, Alan D. Schrift, 2014-09-03 This volume covers the period between the 1890s and 1930s a period that witnessed revolutions in the arts and society which set the agenda for the rest of the century In philosophy the period saw the birth of analytic philosophy the development of new programmes and new modes of inquiry the emergence of phenomenology as a new rigorous science the birth of Freudian psychoanalysis and the maturing of the discipline of sociology This period saw the most influential work of a remarkable series of thinkers who reviewed evaluated and transformed 19th century thought A generation of thinkers among them Henri Bergson Emile Durkheim Sigmund Freud Martin Heidegger Edmund Husserl Karl Jaspers Max Scheler and Ludwig Wittgenstein completed the disenchantment of the world and sought a new re enchantment

Critique of the Quantum Power of Judgment Hernán Pringe, 2011-10-18 The Critique of the Quantum Power of Judgement analyzes the a priori principles which underlie the empirical knowledge provided by quantum theory In contrast to other transcendental approaches to quantum physics none of the transcendental principles established by Kant is modified in order to cope with the new epistemological situation that arises with the assumption of the quantum postulate Rather by considering Bohr's views it is argued that classical concepts provide the mathematical formalism of quantum theory with physical reference through symbolic analogies in the strict Kantian sense The main result of the investigation is the determination of the highest principle under which quantum objects are subsumed This principle states that the conditions of the possibility of the systematic unity of contextual experience are at the same time the conditions of the possibility of quantum objects Upon this principle rests the possibility of any a priori synthetic knowledge of quantum objects Therefore the Critique of the Quantum Power of Judgement yields the prolegomena to any future quantum metaphysics

Saving Science from Quantum Mechanics Emily Adlam, 2025-07-25 Adlam reconceptualizes the quantum measurement problem as a problem of epistemology and in doing so presents a novel perspective on the issue offering a new approach to finding valid solutions

Intuitionism Resocialized Kati Kish

Bar-On,2025-11-29 This book provides a fresh perspective on how mathematicians interpreted and responded to Dutch mathematician L E J Brouwer s ideas It offers an original outlook on the dynamics between mathematicians their commitments to their working frameworks and the establishment of scientific norms Expanding on the collective scientific work literature it prompts a dialogue on applying insights from social epistemology to mathematics exploring whether such an approach can offer new insights into individual and communal responses to Brouwer s intuitionistic pursuit As a result the book is of great value to those interested in STS studies history and philosophy of science and sociology of science delving into topics like the social construction of knowledge epistemic cultures and disagreements and trust in communities Amid ongoing discussions about the marginalization and legitimization of knowledge this book arrives just at the right time to offer a thorough exploration of the reasons behind the marginalization of a specific school in the history of mathematics **The Genesis of the Second Scientific Revolution** Rinat M. Nugayev,2025-04-29 The present book elicits the reasons for the second scientific revolution According to Chapter 1 one has to abandon the great genius approach in favor of mundane Heidegger s existential analytic with Dasein as a way of life shared by the members of scientific community Scientific revolutions should be considered as clashes of diverse mathematical projections of nature consisting of bundles of practices In Chapter 2 it is revealed that Quantum and the Relativistic revolutions had a common origin a skirmish between the Newtonian mechanics Maxwellian electrodynamics Boltzmann s statistical mechanics and Thomson s thermodynamics The skirmish was disclosed by Planck who stressed that the paradigms must be modified to remain compatible Planck took the first step while Einstein took the next ones owing to light quanta and special relativity According to Chapter 3 general relativity was better than its rivals for the reason that it encompassed them all *Reading Putnam* Maria Baghramian,2013 Hilary Putnam is one of the world s leading philosophers His highly original and often provocative ideas have set the agenda for a variety of debates in philosophy of science philosophy of mind and philosophy of language His now famous philosophical thought experiments such as the Twin earth and the brains in the vat have become part of the established canon in philosophy and cognitive science *Reading Putnam* is an outstanding overview and assessment of Hilary Putnam s work by a team of international contributors and includes replies by Putnam himself Divided into clear sections it contains chapters on key aspects of Putnam s large body of writing including Scientific realism and the changes that Putnam s thought has undergone on this topic analyticity and ontology including the important interconnections between the views of Putnam and Quine Putnam s arguments concerning externalist views of meaning and reference questions of conceptual relativity and his preoccupation with ethics through a denial of the fact value dichotomy Putnam s developing views on perception Offering an excellent survey of Putnam s work *Reading Putnam* is essential for those studying philosophy of mind philosophy of language and philosophy of science as well as for anyone interested in contemporary philosophy 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

Responsibility and Resistance Tobias Eberwein,Matthias Karmasin,Friedrich Krotz,Matthias Rath,2019-08-05 The volume deals with the normative challenges and the ethical questions imposed by and through the developments and changes in everyday life culture and society in the context of media change It is thus concerned with the questions of whether and how the central concept of enlightened ethics must evolve under these premises or in other words what form do ethics take in mediatized societies In order to address this question and to stimulate and initiate a debate the authors focus on two concepts responsibility and resistance Their contributions try to shed light not only on the empirical shreds of evidence of change in mediatized societies but also on the normative challenges and ethical possibilities of these developments

Kyoto in Davos. Intercultural Readings of the Cassirer-Heidegger Debate ,2023-12-28 What does it mean to be human We invite the reader to discuss this most fundamental issue in philosophy and to do so in an intercultural framework The question of the human was the starting point for a legendary discussion between two German philosophers who met in Davos in 1929 We return to this historical event and re imagine the debate between Martin Heidegger and Ernst Cassirer from a global perspective Generating twenty papers from elaborate discussions our authors contribute to the thought experiment by inviting the Japanese philosopher Nishida Kitar from Kyoto and other Japanese thinkers into the debate to overcome the challenge of Eurocentrism inherent to these historic days in Davos *Reference, Rationality, and Phenomenology* Michael Frauchiger,2013-05-02 Having its seeds in the 2nd International Lauener Symposium held in honour

of Dagfinn Føllesdal the present collection contains a rich kaleidoscopic ensemble of previously unpublished contributions by leading authors representing diverse approaches to a variety of philosophical themes on which Føllesdal has had a longstanding formative impact Føllesdal himself contributes an orientating essay continuing to develop his pioneering theory of reference as well as in depth commentaries on each of the other authors elaborated papers plus candid answers in the added interview The volume assembles a wealth of original articles containing in part direct discussions of Føllesdal's work and covering a broad range of topics like subjectivity intersubjectivity objectivity rationality logics and mathematics choice theory values modalities intentionality individuation perception communication meaning reference the slingshot one and two sorted semantics evidence neuropsychology space and time science and society methodology fallibilism the relative a priori justification holism the life world reflective equilibrium empathy and ethics Moreover the book includes an incisive memoir of Føllesdal the philosopher as well as a spanning interview with him which are both critically directing toward Føllesdal's subtly differentiated understanding of the dynamic philosophical horizon he shares in With contributions from Dagfinn Føllesdal Charles Parsons Patrick Suppes Jon Elster John Perry Michael Friedman Dag Prawitz Wilhelm K. Essler David Woodruff Smith Olav Gjelsvik Graciela De Pierris Nils R. Hansen Christian Beyer ystein Linnebo Michael Frauchiger

Empiricism at the Crossroads Thomas Uebel, 2015-11-02 Rather than a monolithic movement of naïve empiricists the Vienna Circle represented a discussion forum for what were sometimes compatible sometimes conflicting philosophical approaches to empirical evidence The Circle's protocol sentence debate here reconstructed and analyzed provides an exceptional vantage point from which to survey the various options and choices of the participants Author Thomas Uebel mines the diaries letters and notes of the group's leading philosophers to show how their ideas emerged from real world arguments personal relationships and historical settings

Philosophical Essays Nicolae Sfetcu, 1900 A collection of personal essays in philosophy of science physics especially gravity philosophy of information and communication technology current social issues emotional intelligence COVID 19 pandemic eugenics intelligence philosophy of art and logic and philosophy of language The distinction between falsification and refutation in the demarcation problem of Karl Popper Imre Lakatos Heuristics and methodological tolerance Isaac Newton on the action at a distance in gravity With or without God Causal Loops in Time Travel The singularities as ontological limits of the general relativity Epistemology of Experimental Gravity Scientific Rationality Philosophy of Blockchain Technology Ontologies Big Data Ethics in Research Emotions and Emotional Intelligence in Organizations COVID 19 Pandemic Philosophical Approaches Evolution and Ethics of Eugenics Epistemology of Intelligence Agencies Solaris directed by Andrei Tarkovsky Psychological and philosophical aspects Causal theories of reference for proper names

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a critique of the first wave of cognitivist and computational approaches to the mind see Dreyfus 1972 What some consider a second wave in cognitive science with emphasis on connectionism and neuroscience opened up possibilities for phenomenological intervention in a more positive way resulting in proposals like neurophenomenology Varela 1996 Thus brain imaging technologies can turn to phenomenological insights to guide experimentation see e.g. Jack and Roepstorff 2003 Gallagher and Zahavi 2008

The Prehistory of Mathematical Structuralism Erich H. Reck, Georg Schiemer, 2020 This edited volume explores the previously underacknowledged prehistory of mathematical structuralism showing that structuralism has deep roots in the history of modern mathematics The contributors explore this history along two distinct but interconnected dimensions First they reconsider the methodological contributions of major figures in the history of mathematics Second they reexamine a range of philosophical reflections from mathematically inclined philosophers like Russell Carnap and Quine whose work led to profound conclusions about logical epistemological and metaphysical aspects of structuralism

Self-organization of Matter Christian Jooss, 2020-07-06 Self organization of matter is observed in every context and on all scales from the nanoscale of quantum fields and subatomic particles to the macroscale of galaxy superclusters This book analyzes the wide range of patterns of organization present in nature highlighting their similarities rather than their differences This unconventional approach results in an illuminating read which should be part of any Physics student's background

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