

The Foundational Debate

Complexity and Constructivity in
Mathematics and Physics

edited by
Werner DePauli-Schimanovich,
Eckehart Köhler and Friedrich Stadler



**Vienna
Circle
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Yearbook**

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Foundational Debate Complexity And Constructivity In Mathematics And Physics

Ulrich Felgner



Foundational Debate Complexity And Constructivity In Mathematics And Physics:

The Foundational Debate Werner DePauli-Schimanovich, Eckehart Köhler, F. Stadler, 2013-03-14 Constructibility and complexity play central roles in recent research in computer science mathematics and physics For example scientists are investigating the complexity of computer programs constructive proofs in mathematics and the randomness of physical processes But there are different approaches to the explication of these concepts This volume presents important research on the state of this discussion especially as it refers to quantum mechanics This foundational debate in computer science mathematics and physics was already fully developed in 1930 in the Vienna Circle A special section is devoted to its real founder Hans Hahn referring to his contribution to the history and philosophy of science The documentation section presents articles on the early Philipp Frank and on the Vienna Circle in exile Reviews cover important recent literature on logical empiricism and related topics

Computation, Physics and Beyond Michael J. Dinneen, Bakhadyr Khoussainov, Prof. Andre Nies, 2012-02-15 This Festschrift volume has been published in honor of Cristian Calude on the occasion of his 60th birthday and contains contributions from invited speakers and regular papers presented at the International Workshop on Theoretical Computer Science WTCS 2012 held in Auckland New Zealand in February 2012 Cristian Calude has made a significant contribution to research in computer science theory Along with early work by Chaitin Ku era Kurtz Solovay and Terwijn his papers published in the mid 1990s jointly with Khoussainov Hertling and Wang laid the foundation for the development of modern theory of algorithmic randomness His work was essential for establishing the leading role of New Zealand in this area The research interests of Cristian Calude are reflected in the topics covered by the 32 papers included in this book namely algorithmic information theory algorithms automata and formal languages computing and natural sciences computability and applications logic and applications philosophy of computation physics and computation and unconventional models of computation They have been organized into four parts The first part consists of papers discussing his life achievements This is followed by papers in the three general areas of complexity computability and randomness physics philosophy and logic and computation and algorithms automata and formal models including unconventional computing

Kurt Gödel and the Foundations of Mathematics Matthias Baaz, Christos H. Papadimitriou, Hilary W. Putnam, Dana S. Scott, Charles L. Harper, Jr, 2011-06-06 This volume commemorates the life work and foundational views of Kurt G del 1906 78 most famous for his hallmark works on the completeness of first order logic the incompleteness of number theory and the consistency with the other widely accepted axioms of set theory of the axiom of choice and of the generalized continuum hypothesis It explores current research advances and ideas for future directions not only in the foundations of mathematics and logic but also in the fields of computer science artificial intelligence physics cosmology philosophy theology and the history of science The discussion is supplemented by personal reflections from several scholars who knew G del personally providing some interesting insights into his life By putting his ideas and life s work into the context of current thinking and

perceptions this book will extend the impact of Gödel's fundamental work in mathematics logic philosophy and other disciplines for future generations of researchers

Gödel '96 Petr Hájek, 2017-03-02 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again This volume the sixth publication in the Lecture Notes in Logic series collects the proceedings of the conference Logical Foundations of Mathematics Computer Science and Physics Kurt Gödel's Legacy held in Brno Czech Republic on the 90th anniversary of Gödel's birth The broad range of speakers who participated in this event affirms the continuing importance of Gödel's work in logic physics and the philosophy and foundations of mathematics and computer science The papers in this volume range over all these topics and contribute to our present understanding of them

John von Neumann and the Foundations of Quantum Physics

Miklós Rédei, Michael Stöltzner, 2013-03-09 John von Neumann 1903-1957 was undoubtedly one of the scientific geniuses of the 20th century The main fields to which he contributed include various disciplines of pure and applied mathematics mathematical and theoretical physics logic theoretical computer science and computer architecture Von Neumann was also actively involved in politics and science management and he had a major impact on US government decisions during and especially after the Second World War There exist several popular books on his personality and various collections focusing on his achievements in mathematics computer science and economy Strangely enough to date no detailed appraisal of his seminal contributions to the mathematical foundations of quantum physics has appeared Von Neumann's theory of measurement and his critique of hidden variables became the touchstone of most debates in the foundations of quantum mechanics Today his name also figures most prominently in the mathematically rigorous branches of contemporary quantum mechanics of large systems and quantum field theory And finally as one of his last lectures published in this volume for the first time shows he considered the relation of quantum logic and quantum mechanical probability as his most important problem for the second half of the twentieth century The present volume embraces both historical and systematic analyses of his methodology of mathematical physics and of the various aspects of his work in the foundations of quantum physics such as theory of measurement quantum logic and quantum mechanical entropy The volume is rounded off by previously unpublished letters and lectures documenting von Neumann's thinking about quantum theory after his 1932 Mathematical Foundations of Quantum Mechanics The general part of the Yearbook contains papers emerging from the Institute's annual lecture series and reviews of important publications of philosophy of science and its history

Quantum Logic Karl Svozil, 1998-09-01 Quantum Logic deals with the foundations of quantum mechanics and related to it the behaviour of finite discrete deterministic systems The quantum logical approach is particularly suitable for the investigation and exclusion of certain hidden parameter models of quantum mechanics Conversely it can be used to embed quantum universes into classical ones It is also highly relevant for the characterization of finite automation This book has been written with a broad

readership in mind Great care has been given to the motivation of the concepts and to the explicit and detailed discussions of examples

Church's Thesis After 70 Years Adam Olszewski, Jan Wolenski, Robert Janusz, 2013-05-02 Church's Thesis CT was first published by Alonzo Church in 1935 CT is a proposition that identifies two notions an intuitive notion of an effectively computable function defined in natural numbers with the notion of a recursive function Despite of the many efforts of prominent scientists Church's Thesis has never been falsified There exists a vast literature concerning the thesis The aim of the book is to provide one volume summary of the state of research on Church's Thesis These include the following different formulations of CT CT and intuitionism CT and intensional mathematics CT and physics the epistemic status of CT CT and philosophy of mind provability of CT and CT and functional programming

Mathematical Intuitionism and Intersubjectivity Tomasz Placek, 2013-03-09 In 1907 Luitzen Egbertus Jan Brouwer defended his doctoral dissertation on the foundations of mathematics and with this event the modern version of mathematical intuitionism came into being Brouwer attacked the main currents of the philosophy of mathematics the formalists and the Platonists In turn both these schools began viewing intuitionism as the most harmful party among all known philosophies of mathematics That was the origin of the now 90 year old debate over intuitionism As both sides have appealed in their arguments to philosophical propositions the discussions have attracted the attention of philosophers as well One might ask here what role a philosopher can play in controversies over mathematical intuitionism Can he reasonably enter into disputes among mathematicians I believe that these disputes call for intervention by a philosopher The three best known arguments for intuitionism those of Brouwer Heyting and Dummett are based on ontological and epistemological claims or appeal to theses that properly belong to a theory of meaning Those lines of argument should be investigated in order to find what their assumptions are whether intuitionistic consequences really follow from those assumptions and finally whether the premises are sound and not absurd The intention of this book is thus to consider seriously the arguments of mathematicians even if philosophy was not their main field of interest There is little sense in disputing whether what mathematicians said about the objectivity and reality of mathematical facts belongs to philosophy or not

Epistemological and Experimental Perspectives on Quantum Physics Daniel Greenberger, W.L. Reiter, Anton Zeilinger, 2013-04-17 From the very beginning it was realised that quantum physics involves radically new interpretative and epistemological consequences While hitherto there has been no satisfactory philosophical analysis of these consequences recent years have witnessed the accomplishment of many experiments to test the foundations of quantum physics opening up vistas to a completely novel technology quantum technology The contributions in the present volume review the interpretative situation analyze recent fundamental experiments and discuss the implications of possible future technological applications

Readership Analytic philosophers logical empiricists scientists especially physicists historians of logic mathematics and physics philosophers of science and advanced students and researchers in these fields Can be used for seminars on theoretical and experimental physics and philosophy of science and

as supplementary reading at advanced undergraduate and graduate levels The Vienna Circle in Czechoslovakia Radek Schuster, 2020-02-24 This book explores the remarkable interconnections of the Czechoslovak environment and the work and legacy of the Vienna Circle on the philosophical scientific and artistic level The Czech lands and later Czechoslovakia were the living and working space for the predecessors and catalysts for Logical Empiricism such as Bernard Bolzano Ernst Mach and Albert Einstein along with key figures in the Vienna Circle such as Philipp Frank and Rudolf Carnap Moreover Prague hosted important academic events in which Logical Empiricism was presented to the public such as the September 1929 1st Conference on the Epistemology of the Exact Sciences which launched the key manifesto The Vienna Circle The Scientific Conception of the World In addition this book investigates both the positive and negative receptions of Logical Empiricism within Czech and Slovak intellectual circles The volume features a selection of contributions to the international conference The Vienna Circle in Czechoslovakia held in Pilsen Czech Republic in February 2015 These essays are supplemented by two texts of vivid personal memoirs by Nina Holton and Ladislav Tondl The book is of interest to scholars and researchers interested in the history of philosophy and science in central Europe and the philosophy of science and the Logical Empiricism of the Vienna Circle **The Vienna Circle** Friedrich Stadler, 2015-05-08 This abridged and revised edition of the original book Springer Wien New York 2001 offers the only comprehensive history and documentation of the Vienna Circle based on new sources with an innovative historiographical approach to the study of science With reference to previously unpublished archival material and more recent literature it refutes a number of widespread clichés about neo positivism or logical positivism Following some insights on the relation between the history of science and the philosophy of science the book offers an accessible introduction to the complex subject of the rise of scientific philosophy in its socio cultural background and European philosophical networks till the forced migration in the Anglo Saxon world The first part of the book focuses on the origins of Logical Empiricism before World War I and the development of the Vienna Circle in Red Vienna with the Verein Ernst Mach its fate during Austro Fascism Schlick's murder 1936 and its final expulsion by National Socialism beginning with the Anschluss in 1938 It analyses the dynamics of the Schlick Circle in the intellectual context of late enlightenment including the minutes of the meetings from 1930 on for the first time published and presents an extensive description of the meetings and international Unity of Science conferences between 1929 and 1941 The chapters introduce the leading philosophers of the Schlick Circle e.g. Hans Hahn Otto Neurath Rudolf Carnap Philipp Frank Felix Kaufmann Edgar Zilsel and describe the conflicting interaction between Moritz Schlick and Otto Neurath the long term communication between Moritz Schlick Friedrich Waismann and Ludwig Wittgenstein as well as between the Vienna Circle with Heinrich Gomperz and Karl Popper In addition Karl Menger's Mathematical Colloquium with Kurt Gödel is presented as a parallel movement The final chapter of this section describes the demise of the Vienna Circle and the forced exodus of scientists and intellectuals from Austria The second part of the book includes a bio bibliographical documentation of the Vienna Circle

members and for the first time of the assassination of Moritz Schlick in 1936 followed by an appendix comprising an extensive list of sources and literature Philosophy of Mathematics in Antiquity and in Modern Times Ulrich Felgner, 2023-06-10 Philosophy of Mathematics is understood in this book as an effort to clarify such questions that mathematics itself raises but cannot answer with its own methods These include for example questions about the ontological status of mathematical objects e g what is the nature of mathematical objects and the epistemological status of mathematical theorems e g from what sources do we draw when we prove mathematical theorems The answers given by Plato Aristotle Euclid Descartes Locke Leibniz Kant Cantor Frege Dedekind Hilbert and others will be studied in detail This will lead us to deep insights not only into the history of mathematics but also into the conception of mathematics as it is commonly held in the present time The book is a translation from the German however revised and considerably expanded Various chapters have been completely rewritten **Computability in Context** S. Barry Cooper, 2011 Addresses various ways computability and theoretical computer science enable scientists and philosophers to deal with mathematical and real world issues This book covers problems related to logic mathematics physical processes real computation and learning theory *Interpreting the Quantum World* Jeffrey Bub, 1999-08-26 Philosophy of physics title by highly regarded author fully revised for this paperback edition *Epistemology, Knowledge and the Impact of Interaction* Juan Redmond, Olga Pombo Martins, Ángel Nepomuceno Fernández, 2016-04-28 With this volume of the series Logic Epistemology and the Unity of Science edited by S Rahman et al a challenging dialogue is being continued The series first volume argued that one way to recover the connections between logic philosophy of sciences and sciences is to acknowledge the host of alternative logics which are currently being developed The present volume focuses on four key themes First of all several chapters unpack the connection between knowledge and epistemology with particular focus on the notion of knowledge as resulting from interaction Secondly new epistemological perspectives on linguistics the foundations of mathematics and logic physics biology and law are a subject of analysis Thirdly several chapters are dedicated to a discussion of Constructive Type Theory and more generally of the proof theoretical notion of meaning Finally the book brings together studies on the epistemic role of abduction and argumentation theory both linked to non monotonic approaches to the dynamics of knowledge Integrative Problem-Solving in a Time of Decadence George Christakos, 2010-12-10 Presents a unique study of Integrative Problem Solving IPS The consideration of Decadence is essential in the scientific study of environmental and other problems and their rigorous solution because the broad context within which the problems emerge can affect their solution Stochastic reasoning underlines the conceptual and methodological framework of IPS and its formulation has a mathematical life of its own that accounts for the multidisciplinary of real world problems the multisourced uncertainties characterizing their solution and the different thinking modes of the people involved Only by interpolating between the full range of disciplines including stochastic mathematics physical science neuropsychology philosophy and sociology and the associated thinking modes can

scientists arrive at a satisfactory account of problem solving and be able to distinguish between a technically complete problem solution and a solution that has social impact Treatise on Intuitionistic Type Theory Johan Georg Granström, 2011-06-02 Intuitionistic type theory can be described somewhat boldly as a partial fulfillment of the dream of a universal language for science This book expounds several aspects of intuitionistic type theory such as the notion of set reference vs computation assumption and substitution Moreover the book includes philosophically relevant sections on the principle of compositionality lingua characteristica epistemology propositional logic intuitionism and the law of excluded middle Ample historical references are given throughout the book **Physical (A)Causality** Karl Svozil, 2018-02-13 This book is open access under a CC BY 4.0 license This book addresses the physical phenomenon of events that seem to occur spontaneously and without any known cause These are to be contrasted with events that happen in a pre determined predictable lawful and causal way All our knowledge is based on self reflexive theorizing as well as on operational means of empirical perception Some of the questions that arise are the following are these limitations reflected by our models Under what circumstances does chance kick in Is chance in physics merely epistemic In other words do we simply not know enough or use too crude levels of description for our predictions Or are certain events truly that is irreducibly random The book tries to answer some of these questions by introducing intrinsic embedded observers and provable unknowns that is observables and procedures which are certified relative to the assumptions to be unknowable or undoable A somewhat iconoclastic review of quantum mechanics is presented which is inspired by quantum logic Postulated quantum unknownables are reviewed More exotic unknowns originate in the assumption of classical continua and in finite automata and generalized urn models which mimic complementarity and yet maintain value definiteness Traditional conceptions of free will miracles and dualistic interfaces are based on gaps in an otherwise deterministic universe *Epistemology versus Ontology* P. Dybjer, Sten Lindström, Erik Palmgren, B.G. Sundholm, 2012-07-10 This book brings together philosophers mathematicians and logicians to penetrate important problems in the philosophy and foundations of mathematics In philosophy one has been concerned with the opposition between constructivism and classical mathematics and the different ontological and epistemological views that are reflected in this opposition The dominant foundational framework for current mathematics is classical logic and set theory with the axiom of choice ZFC This framework is however laden with philosophical difficulties One important alternative foundational programme that is actively pursued today is predicativistic constructivism based on Martin L f type theory Associated philosophical foundations are meaning theories in the tradition of Wittgenstein Dummett Prawitz and Martin L f What is the relation between proof theoretical semantics in the tradition of Gentzen Prawitz and Martin L f and Wittgensteinian or other accounts of meaning as use What can proof theoretical analyses tell us about the scope and limits of constructive and predicative mathematics *Neurath Reconsidered* Jordi Cat, Adam Tamas Tuboly, 2019-02-12 This highly readable book is a collection of critical papers on Otto Neurath 1882 1945 It comprehensively

re examines Neurath's scientific, philosophical and educational contributions from a range of standpoints including historical, sociological and problem-oriented perspectives. Leading Neurath scholars disentangle and connect Neurath's works, ideas and ideals and evaluate them both in their original socio-historical context and in contemporary philosophical debates. Readers will discover a new critical understanding. Drawing on archive materials, essays discuss not only Neurath's better known works from lesser known perspectives but also his lesser known works from the better known perspective of their place in his overall philosophical oeuvre. Reflecting the full range of Neurath's work, this volume has a broad appeal. Besides scholars and researchers interested in Neurath, Carnap, the Vienna Circle, work on logical empiricism and the history and philosophy of science, this book will also appeal to graduate students in philosophy, sociology, history and education. Readers will find Neurath's thoughts described and evaluated in an accessible manner, making it a good read for those beyond the academic world, such as social leaders and activists. The book includes the edited 1940-45 Neurath-Carnap correspondence and the English translation of Neurath's logic papers.

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