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PROOF THEORY

History and Philosophical Significance

*Edited by Vincent F. Hendricks, Stig Andur Pedersen
and Klaus Frovin Jørgensen*

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Proof Theory History And Philosophical Significance

Hans Niels Jahnke



Proof Theory History And Philosophical Significance:

Proof Theory Vincent F. Hendricks, Stig Andur Pedersen, Klaus Frovin Jørgensen, 2013-03-09 his volume in the Synthese Library Series is the result of a conference held at the University of Roskilde Denmark October 31st November 1st 1997 The aim was to provide a forum within which philosophers mathematicians logicians and historians of mathematics could exchange ideas pertaining to the historical and philosophical development of proof theory Hence the conference was called Proof Theory History and Philosophical Significance To quote from the conference abstract Proof theory was developed as part of Hilberts Programme According to Hilberts Programme one could provide mathematics with a firm and secure foundation by formalizing all of mathematics and subsequently prove consistency of these formal systems by finitistic means Hence proof theory was developed as a formal tool through which this goal should be fulfilled It is well known that Hilberts Programme in its original form was unfeasible mainly due to Gödels incompleteness theorems Additionally it proved impossible to formalize all of mathematics and impossible to even prove the consistency of relatively simple formalized fragments of mathematics by finitistic methods In spite of these problems Gentzen showed that by extending Hilberts proof theory it would be possible to prove the consistency of interesting formal systems perhaps not by finitistic methods but still by methods of minimal strength This generalization of Hilberts original programme has fueled modern proof theory which is a rich part of mathematical logic with many significant implications for the philosophy of mathematics *An Introduction to Proof Theory* Paolo Mancosu, Sergio Galvan, Richard Zach, 2021-08-12 An Introduction to Proof Theory provides an accessible introduction to the theory of proofs with details of proofs worked out and examples and exercises to aid the readers understanding It also serves as a companion to reading the original pathbreaking articles by Gerhard Gentzen The first half covers topics in structural proof theory including the Gödel Gentzen translation of classical into intuitionistic logic and arithmetic natural deduction and the normalization theorems for both NJ and NK the sequent calculus including cut elimination and mid sequent theorems and various applications of these results The second half examines ordinal proof theory specifically Gentzen s consistency proof for first order Peano Arithmetic The theory of ordinal notations and other elements of ordinal theory are developed from scratch and no knowledge of set theory is presumed The proof methods needed to establish proof theoretic results especially proof by induction are introduced in stages throughout the text Mancosu Galvan and Zach s introduction will provide a solid foundation for those looking to understand this central area of mathematical logic and the philosophy of mathematics **A Richer Picture of Mathematics** David E. Rowe, 2018-02-13 Historian David E Rowe captures the rich tapestry of mathematical creativity in this collection of essays from the *Years Ago* column of *The Mathematical Intelligencer* With topics ranging from ancient Greek mathematics to modern relativistic cosmology this collection conveys the impetus and spirit of Rowe s various and many faceted contributions to the history of mathematics Centered on the Gentzen mathematical tradition these stories illuminate important facets of mathematical

activity often overlooked in other accounts Six sections place the essays in chronological and thematic order beginning with new introductions that contextualize each section The essays that follow recount episodes relating to the section s overall theme All of the essays in this collection with the exception of two appeared over the course of more than 30 years in The Mathematical Intelligencer Based largely on archival and primary sources these vignettes offer unusual insights into behind the scenes events Taken together they aim to show how G ttingen managed to attract an extraordinary array of talented individuals several of whom contributed to the development of a new mathematical culture during the first decades of the twentieth century

Structural Proof Theory Sara Negri, Jan von Plato, 2008-07-10 A concise introduction to structural proof theory a branch of logic studying the general structure of logical and mathematical proofs

Plato's Ghost Jeremy Gray, 2022-12-13 Plato s Ghost is the first book to examine the development of mathematics from 1880 to 1920 as a modernist transformation similar to those in art literature and music Jeremy Gray traces the growth of mathematical modernism from its roots in problem solving and theory to its interactions with physics philosophy theology psychology and ideas about real and artificial languages He shows how mathematics was popularized and explains how mathematical modernism not only gave expression to the work of mathematicians and the professional image they sought to create for themselves but how modernism also introduced deeper and ultimately unanswerable questions Plato s Ghost evokes Yeats s lament that any claim to worldly perfection inevitably is proven wrong by the philosopher s ghost Gray demonstrates how modernist mathematicians believed they had advanced further than anyone before them only to make more profound mistakes He tells for the first time the story of these ambitious and brilliant mathematicians including Richard Dedekind Henri Lebesgue Henri Poincaré and many others He describes the lively debates surrounding novel objects definitions and proofs in mathematics arising from the use of naïve set theory and the revived axiomatic method debates that spilled over into contemporary arguments in philosophy and the sciences and drove an upsurge of popular writing on mathematics And he looks at mathematics after World War I including the foundational crisis and mathematical Platonism Plato s Ghost is essential reading for mathematicians and historians and will appeal to anyone interested in the development of modern mathematics

Feferman on Foundations Gerhard Jäger, Wilfried Sieg, 2018-04-04 This volume honours the life and work of Solomon Feferman one of the most prominent mathematical logicians of the latter half of the 20th century In the collection of essays presented here researchers examine Feferman s work on mathematical as well as specific methodological and philosophical issues that tie into mathematics Feferman s work was largely based in mathematical logic namely model theory set theory proof theory and computability theory but also branched out into methodological and philosophical issues making it well known beyond the borders of the mathematics community With regard to methodological issues Feferman supported concrete projects On the one hand these projects calibrate the proof theoretic strength of subsystems of analysis and set theory and provide ways of overcoming the limitations imposed by Gödel s incompleteness theorems through appropriate

conceptual expansions On the other they seek to identify novel axiomatic foundations for mathematical practice truth theories and category theory In his philosophical research Feferman explored questions such as What is logic and proposed particular positions regarding the foundations of mathematics including for example his conceptual structuralism The contributing authors of the volume examine all of the above issues Their papers are accompanied by an autobiography presented by Feferman that reflects on the evolution and intellectual contexts of his work The contributing authors critically examine Feferman's work and in part actively expand on his concrete mathematical projects The volume illuminates Feferman's distinctive work and in the process provides an enlightening perspective on the foundations of mathematics and logic

Logic from Russell to Church Dov M. Gabbay, John Woods, 2009-06-16 This volume is number five in the 11 volume Handbook of the History of Logic It covers the first 50 years of the development of mathematical logic in the 20th century and concentrates on the achievements of the great names of the period Russell Post G del Tarski Church and the like This was the period in which mathematical logic gave mature expression to its four main parts set theory model theory proof theory and recursion theory Collectively this work ranks as one of the greatest achievements of our intellectual history Written by leading researchers in the field both this volume and the Handbook as a whole are definitive reference tools for senior undergraduates graduate students and researchers in the history of logic the history of philosophy and any discipline such as mathematics computer science and artificial intelligence for whom the historical background of his or her work is a salient consideration The entire range of modal logic is covered Serves as a singular contribution to the intellectual history of the 20th century Contains the latest scholarly discoveries and interpretative insights

The Architecture of Modern Mathematics José Ferreirós Domínguez, Jeremy Gray, 2006-04-27 Aimed at both students and researchers in philosophy mathematics and the history of science this edited volume authored by leading scholars highlights foremost developments in both the philosophy and history of modern mathematics

Replacing Truth Kevin Scharp, 2013-07-11 Kevin Scharp proposes an original theory of the nature and logic of truth on which truth is an inconsistent concept that should be replaced for certain theoretical purposes Replacing Truth opens with an overview of work on the nature of truth e g correspondence theories deflationism work on the liar and related paradoxes and a comprehensive scheme for combining these two literatures into a unified study of the concept truth Scharp argues that truth is best understood as an inconsistent concept and proposes a detailed theory of inconsistent concepts that can be applied to the case of truth Truth also happens to be a useful concept but its inconsistency inhibits its utility as such it should be replaced with consistent concepts that can do truth's job without giving rise to paradoxes To this end Scharp offers a pair of replacements which he dubs ascending truth and descending truth along with an axiomatic theory of them and a new kind of possible worlds semantics for this theory As for the nature of truth he goes on to develop Davidson's idea that it is best understood as the core of a measurement system for rational phenomena e g belief desire and meaning The book finishes with a semantic theory that treats truth predicates as

assessment sensitive i.e. their extension is relative to a context of assessment and a demonstration of how this theory solves the problems posed by the liar and other paradoxes

Philosophy of Mathematics and Economics Thomas A.

Boylan, Paschal F. O'Gorman, 2018-04-09 With the failure of economics to predict the recent economic crisis the image of economics as a rigorous mathematical science has been subjected to increasing interrogation One explanation for this failure is that the subject took a wrong turn in its historical trajectory becoming too mathematical Using the philosophy of mathematics this unique book re-examines this trajectory Philosophy of Mathematics and Economics re-analyses the divergent rationales for mathematical economics by some of its principal architects Yet it is not limited to simply enhancing our understanding of how economics became an applied mathematical science The authors also critically evaluate developments in the philosophy of mathematics to expose the inadequacy of aspects of mainstream mathematical economics as well as exploiting the same philosophy to suggest alternative ways of rigorously formulating economic theory for our digital age This book represents an innovative attempt to more fully understand the complexity of the interaction between developments in the philosophy of mathematics and the process of formalisation in economics Assuming no expert knowledge in the philosophy of mathematics this work is relevant to historians of economic thought and professional philosophers of economics In addition it will be of great interest to those who wish to deepen their appreciation of the economic contours of contemporary society It is also hoped that mathematical economists will find this work informative and engaging

Scientific Progress Craig Dilworth, 2007-09-18 Kuhn and Feyerabend formulated the problem Dilworth provides the solution In this highly original and insightful book Craig Dilworth answers all the questions raised by the incommensurability thesis Logical empiricism cannot account for theory conflict Popperianism cannot account for how one theory is a progression beyond another Dilworth's Perspectivist conception of science does both While remaining within the bounds of classical philosophy of science Dilworth does away with the logicism of his competitors On the Perspectivist view theory conflict is not contradiction and theory superiority does not consist in deductive subsumption or set theoretic inclusion Here the relation between theories is analogous to the application of individual concepts and the question of theory superiority becomes one of relative applicability In this way Dilworth succeeds in providing a conception of science in which scientific progress is based on both rational and empirical considerations

Axiomatic Method and Category Theory Andrei

Rodin, 2013-10-14 This volume explores the many different meanings of the notion of the axiomatic method offering an insightful historical and philosophical discussion about how these notions changed over the millennia The author a well known philosopher and historian of mathematics first examines Euclid who is considered the father of the axiomatic method before moving onto Hilbert and Lawvere He then presents a deep textual analysis of each writer and describes how their ideas are different and even how their ideas progressed over time Next the book explores category theory and details how it has revolutionized the notion of the axiomatic method It considers the question of identity equality in mathematics as well as

examines the received theories of mathematical structuralism In the end Rodin presents a hypothetical New Axiomatic Method which establishes closer relationships between mathematics and physics Lawvere's axiomatization of topos theory and Voevodsky's axiomatization of higher homotopy theory exemplify a new way of axiomatic theory building which goes beyond the classical Hilbert style Axiomatic Method The new notion of Axiomatic Method that emerges in categorical logic opens new possibilities for using this method in physics and other natural sciences This volume offers readers a coherent look at the past present and anticipated future of the Axiomatic Method Handbook of Whiteheadian Process Thought Michel Weber, 2013-04-30 Gathering 115 entries written by 101 internationally renowned experts in their fields the Handbook of Whiteheadian Process Thought aims at canvassing the current state of knowledge in Whiteheadian scholarship and at identifying promising directions for future investigations through internal cross elucidation and external interdisciplinary development Two kinds of entries are weaved together in order to interpret Whitehead secundum Whitehead and to read him from the vantage point of interdisciplinary and crossdisciplinary research The thematic entries provide i a broad contextualisation of the issue at stake ii a focus on Whitehead's treatment if any or of a possible Whiteheadian treatment of the issue iii a history of relevant scholarship iv a personal assessment by the Author The biographical entries provide i a brief vita of the targeted thinker ii a sketch of his/her categories relevant to the Whiteheadian scholarship iii a personal assessment of the actual or possible Whiteheadian semantic transfer to or from the thinker

Blameworthy Belief Nikolaj Nottelmann, 2007-07-18 Believing the wrong thing may sometimes have drastic consequences The question as to when a person is not only ill guided but genuinely at fault for holding a particular belief is an important one It touches upon the roots of our understanding of such notions as criminal negligence and moral responsibility The answer to this question may influence the extent to which we are willing to submit each other to punishments ranging from mild resentment to harsh prison terms This book presents an extensive effort to shed light on the conditions under which we may appropriately deem someone blameworthy for holding a particular belief It regiments and unifies several debates within contemporary epistemology ethics and legal scholarship Finally the book brings a new philosophical look on issues like our power to control beliefs and the extent and nature of foresight A History of Analysis Hans Niels Jahnke, 2003 Analysis as an independent subject was created as part of the scientific revolution in the seventeenth century Kepler Galileo Descartes Fermat Huygens Newton and Leibniz to name but a few contributed to its genesis Since the end of the seventeenth century the historical progress of mathematical analysis has displayed unique vitality and momentum No other mathematical field has so profoundly influenced the development of modern scientific thinking Describing this multidimensional historical development requires an in depth discussion which includes a reconstruction of general trends and an examination of the specific problems This volume is designed as a collective work of authors who are proven experts in the history of mathematics It clarifies the conceptual change that analysis underwent during its development while elucidating the

influence of specific applications and describing the relevance of biographical and philosophical backgrounds The first ten chapters of the book outline chronological development and the last three chapters survey the history of differential equations the calculus of variations and functional analysis Special features are a separate chapter on the development of the theory of complex functions in the nineteenth century and two chapters on the influence of physics on analysis One is about the origins of analytical mechanics and one treats the development of boundary value problems of mathematical physics especially potential theory in the nineteenth century The book presents an accurate and very readable account of the history of analysis Each chapter provides a comprehensive bibliography Mathematical examples have been carefully chosen so that readers with a modest background in mathematics can follow them It is suitable for mathematical historians and a general mathematical audience 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 **Nonstandard Analysis** Karl Kuhlemann, 2024-12-16

Currently nonstandard analysis is barely considered in university teaching The author argues that nonstandard analysis is valuable not only for teaching but also for understanding standard analysis and mathematics itself An axiomatic approach which pays attention to different language levels for example in the distinction between sums of ones and the natural numbers of the theory leads naturally to a nonstandard theory For motivation historical ideas of Leibniz can be taken up The book contains an elaborated concept that follows this approach and is suitable for example as a basis for a lecture supplementary course The monograph part presents all major approaches to nonstandard analysis and discusses logical model theoretic and set theoretic investigations to reveal possible mathematical reasons that may lead to reservations about nonstandard analysis Also various foundational positions as well as ontological epistemological and application related issues are addressed It turns out that the one sided preference for standard analysis is justified neither from a didactic mathematical nor philosophical point of view Thus the book is especially valuable for students and instructors of analysis who are also interested in the foundations of their subject

New Essays on Leibniz Reception Ralph Krömer, Yannick Chin-Drian, 2012-03-13 This book is a collection of essays on the

reception of Leibniz's thinking in the sciences and in the philosophy of science in the 19th and 20th centuries. Authors studied include C. F. Gauss, Georg Cantor, Kurt Gödel, Bertrand Russell, Ernst Cassirer, Louis Couturat, Hans Reichenbach, Hermann Weyl, Kurt Gödel, and Gregory Chaitin. In addition, we consider concepts and problems central to Leibniz's thought and that of the later authors: the continuum, space, identity, number, the infinite, and the infinitely small; the projects of a universal language, a calculus of logic, a *mathesis universalis*, etc. The book brings together two fields of research in the history of philosophy and of science: research on Leibniz and the research concerned with some major developments in the 19th and 20th centuries. It describes how Leibniz's thought appears in the works of these authors in order to better understand Leibniz's influence on contemporary science and philosophy, but it also assesses that reception critically, confronting it in particular with the current state of Leibniz research and with the various editions of his work.

Modeling Rational Agents Nicola Giocoli, 2003-01-01. This book explores the evolution through the first half of the 20th century of the key neoclassical concept of rationality. The analysis begins with the development of modern decision theory, covers the interwar debates over the role of perfect foresight, and analyzes the first game-theoretic solution concepts of von Neumann and Nash. The author's proposition is that the notion of rationality suffered a profound transformation that reduced it to a formal property of consistency. Such a transformation paralleled that of neoclassical economics as a whole, from a discipline dealing with real economic processes to one investigating issues of logical consistency between mathematical relationships.

The Adventure of Reason Paolo Mancosu, 2014-01-09. Paolo Mancosu presents a series of innovative studies in the history and the philosophy of logic and mathematics in the first half of the twentieth century. *The Adventure of Reason* is divided into five main sections: history of logic from Russell to Tarski; foundational issues: Hilbert's program, constructivity, Wittgenstein's *Gödel* mathematics and phenomenology; Weyl, Becker, Mahnke; nominalism; Quine; Tarski's semantics; Tarski, Carnap, Neurath. Mancosu exploits extensive untapped archival sources to make available a wealth of new material that deepens in significant ways our understanding of these fascinating areas of modern intellectual history. At the same time, the book is a contribution to recent philosophical debates, in particular on the prospects for a successful nominalist reconstruction of mathematics, the nature of finitist intuition, the viability of alternative definitions of logical consequence, and the extent to which phenomenology can hope to account for the exact sciences.

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