

Philosophy of Mathematics & Mathematical Practice in the Seventeenth Century

Paolo Mancosu

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Jeffrey M. Binder



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Philosophy of Mathematics and Mathematical Practice in the Seventeenth Century Paolo Mancosu, 1996-01-18 The seventeenth century saw dramatic advances in mathematical theory and practice With the recovery of many of the classical Greek mathematical texts new techniques were introduced and within 100 years the rules of analytic geometry geometry of indivisibles arithmetic of infinities and calculus were developed Although many technical studies have been devoted to these innovations Mancosu provides the first comprehensive account of the relationship between mathematical advances of the seventeenth century and the philosophy of mathematics of the period Starting with the Renaissance debates on the certainty of mathematics Mancosu leads the reader through the foundational issues raised by the emergence of these new mathematical techniques including the influence of the Aristotelian conception of science in Cavalieri and Guldin the foundational relevance of Descartes Geometrie the relation between geometrical and epistemological theories of the infinite and the Leibnizian calculus and the opposition to infinitesimalist procedures In the process Mancosu draws a sophisticated picture of the subtle dependencies between technical development and philosophical reflection in seventeenth century mathematics

The Philosophy of Mathematical Practice Paolo Mancosu, 2008-06-19 There is an urgent need in philosophy of mathematics for new approaches which pay closer attention to mathematical practice This book will blaze the trail it offers philosophical analyses of important characteristics of contemporary mathematics and of many aspects of mathematical activity which escape purely formal logical treatment

Mathematical Practice and the Philosophy of Mathematics

Audrey Yap, 2006 **An Historical Introduction to the Philosophy of Mathematics: A Reader** Russell Marcus, Mark McEvoy, 2016-02-11 A comprehensive collection of historical readings in the philosophy of mathematics and a selection of

influential contemporary work this much needed introduction reveals the rich history of the subject An Historical Introduction to the Philosophy of Mathematics A Reader brings together an impressive collection of primary sources from ancient and modern philosophy Arranged chronologically and featuring introductory overviews explaining technical terms this accessible reader is easy to follow and unrivaled in its historical scope With selections from key thinkers such as Plato Aristotle Descartes Hume and Kant it connects the major ideas of the ancients with contemporary thinkers A selection of recent texts from philosophers including Quine Putnam Field and Maddy offering insights into the current state of the discipline clearly illustrates the development of the subject Presenting historical background essential to understanding contemporary trends and a survey of recent work An Historical Introduction to the Philosophy of Mathematics A Reader is required reading for undergraduates and graduate students studying the philosophy of mathematics and an invaluable source book for working researchers

Conflicts Between Generalization, Rigor, and Intuition Gert Schubring, 2006-06-10 This volume is as may be readily apparent the fruit of many years labor in archives and libraries unearthing rare books researching Nachlass and above all systematic comparative analysis of fecund sources The work not only demanded much time in preparation but was also interrupted by other duties such as time spent as a guest professor at universities abroad which of course provided welcome opportunities to present and discuss the work and in particular the organizing of the 1994 International Grattan Conference and the subsequent editing of its proceedings If it is not possible to be precise about the amount of time spent on this work it is possible to be precise about the date of its inception In 1984 during research in the archive of the cole polytechnique my attention was drawn to the way in which the massive rupture that took place in 1811 precipitating the change back to the synthetic method and replacing the limit method by the method of the quantités infiniment petites significantly altered the teaching of analysis at this first modern institution of higher education an institution originally founded as a citadel of the analytic method

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

Language and the Rise of the Algorithm Jeffrey M. Binder, 2022-12-06 A wide ranging history of the algorithm Bringing together the histories of mathematics computer science and linguistic thought Language and the Rise of the Algorithm reveals how recent developments in artificial intelligence are reopening an issue that troubled mathematicians well before the computer age How do you draw the line between computational rules and the complexities of making systems comprehensible to people By attending to this question we come to see that the modern idea of the algorithm is implicated in a long history of attempts to maintain a disciplinary boundary

separating technical knowledge from the languages people speak day to day Here Jeffrey M Binder offers a compelling tour of four visions of universal computation that addressed this issue in very different ways G W Leibniz s calculus ratiocinator a universal algebra scheme Nicolas de Condorcet designed during the French Revolution George Boole s nineteenth century logic system and the early programming language ALGOL short for algorithmic language These episodes show that symbolic computation has repeatedly become entangled in debates about the nature of communication Machine learning in its increasing dependence on words erodes the line between technical and everyday language revealing the urgent stakes underlying this boundary The idea of the algorithm is a levee holding back the social complexity of language and it is about to break This book is about the flood that inspired its construction *The Good Life in the Scientific Revolution* Matthew L.

Jones,2008-09-15 Amid the unrest dislocation and uncertainty of seventeenth century Europe readers seeking consolation and assurance turned to philosophical and scientific books that offered ways of conquering fears and training the mind guidance for living a good life *The Good Life in the Scientific Revolution* presents a triptych showing how three key early modern scientists Ren Descartes Blaise Pascal and Gottfried Leibniz envisioned their new work as useful for cultivating virtue and for pursuing a good life Their scientific and philosophical innovations stemmed in part from their understanding of mathematics and science as cognitive and spiritual exercises that could create a truer mental and spiritual nobility In portraying the rich contexts surrounding Descartes geometry Pascal s arithmetical triangle and Leibniz s calculus Matthew L Jones argues that this drive for moral therapeutics guided important developments of early modern philosophy and the Scientific Revolution [A Princely Brave Woman](#) Stephen Clucas,2018-12-20 This title was first published in 2003 This

collection of essays presents a variety of new approaches to the oeuvre of Margaret Cavendish Duchess of Newcastle one of the most influential and controversial women writers of the seventeenth century Reflecting the full range of Cavendish s output which included poetry drama prose fictions orations and natural philosophy these essays re assess Cavendish s place in seventeenth century literature and philosophy Whilst approaching Cavendish s work from a range of critical and disciplinary perspectives the authors of these essays are united in their commitment to recovering her writings from their frequent characterisation as eccentric or idiosyncratic and aim to present her work as historically legible within the cultural contexts in which they were written The Mad Madge of literary legend and tradition is re written as a bold innovative and experimental creator of a female authorial voice and as a thinker vitally in contact with the intellectual currents of her age

George Berkeley: Religion and Science in the Age of Enlightenment Silvia Parigi,2010-10-04 George Berkeley was considered the most engaging and useful man in Ireland in the eighteenth century This hyperbolic statement refers both to Berkeley s life and thought in fact he always considered himself a pioneer called to think and do new things He was an empiricist well versed in the sciences an amateur of the mechanical arts as well as a metaphysician he was the author of many completely different discoveries as well as a very active Christian a zealous bishop and the apostle of the Bermuda

project The essays collected in this volume written by some leading scholars aim to reconstruct the complexity of Berkeley's figure without selecting major works nor searching for coherence at any cost They will focus on different aspects of Berkeley's thought showing their intersections they will explore the important contributions he gave to various scientific disciplines as well as to the eighteenth century philosophical and theological debate They will highlight the wide influence that his presently most neglected or puzzling books had at the time they will refuse any anachronistical trial of Berkeley's thought judged from a contemporary point of view

Diagrammatic Representation and Inference Peter Chapman, Gem Stapleton, Amirouche Moktefi, Sarah Perez-Kriz, Francesco Bellucci, 2018-06-07 This book constitutes the refereed proceedings of the 10th International Conference on the Theory and Application of Diagrams Diagrams 2018 held in Edinburgh UK in June 2018 The 26 revised full papers and 28 short papers presented together with 32 posters were carefully reviewed and selected from 124 submissions The papers are organized in the following topical sections generating and drawing Euler diagrams diagrams in mathematics diagram design principles and classification reasoning with diagrams Euler and Venn diagrams empirical studies and cognition Peirce and existential graphs and logic and diagrams

Abstraction and Infinity Paolo Mancosu, 2016 Mancosu offers an original investigation of key notions in mathematics abstraction and infinity and their interaction He gives a historical analysis of the theorizing of definitions by abstraction and explores a novel approach to measuring the size of infinite sets showing how this leads to deep mathematical and philosophical problems

Lakatos and the Historical Approach to Philosophy of Mathematics Donald Gillies, 2023-12-21 The Element begins by claiming that Imre Lakatos 1922-74 in his famous paper Proofs and Refutations 1963-64 was the first to introduce the historical approach to philosophy of mathematics Section 2 gives a detailed analysis of Lakatos' ideas on the philosophy of mathematics Lakatos died at the age of only 51 and at the time of this death had plans to continue his work on philosophy of mathematics which were never carried out However Lakatos' historical approach to philosophy of mathematics was taken up by other researchers in the field and Sections 3 and 4 of the Element give an account of how they developed this approach Then Section 5 gives an overview of what has been achieved so far by the historical approach to philosophy of mathematics and considers what its prospects for the future might be

History of Universities Volume XXXIII/2 Mordechai Feingold, 2020-10-22 This issue of History of Universities XXXIII 2 contains the customary mix of learned articles and book reviews which makes this publication such an indispensable tool for the historian of higher education

History of Universities Volume XXXIII/2 Andrea Sangiacomo, 2020 This issue of History of Universities XXXIII 2 contains the customary mix of learned articles and book reviews which makes this publication such an indispensable tool for the historian of higher education

Hilary Putnam on Logic and Mathematics Geoffrey Hellman, Roy T. Cook, 2018-12-06 This book explores the research of Professor Hilary Putnam a Harvard professor as well as a leading philosopher mathematician and computer scientist It features the work of distinguished scholars in the field as well as a selection of young academics who

have studied topics closely connected to Putnam's work. It includes 12 papers that analyze, develop and constructively criticize this notable professor's research in mathematical logic, the philosophy of logic and the philosophy of mathematics. In addition, it features a short essay presenting reminiscences and anecdotes about Putnam from his friends and colleagues and also includes an extensive bibliography of his work in mathematics and logic. The book offers readers a comprehensive review of outstanding contributions in logic and mathematics as well as an engaging dialogue between prominent scholars and researchers. It provides those interested in mathematical logic, the philosophy of logic and the philosophy of mathematics with unique insights into the work of Hilary Putnam.

Honoré Fabri and the Concept of Impetus: A Bridge between Conceptual Frameworks Michael Elazar, 2011-05-20. This book discusses the impetus-based physics of the Jesuit natural philosopher and mathematician Honoré Fabri (1608-1688), a senior representative of Jesuit scientists during the period between Galileo's death (1642) and Newton's *Principia* (1687). It shows how Fabri, while remaining loyal to a general Aristotelian outlook, managed to reinterpret the old concept of impetus in such a way as to assimilate into his physics building blocks of modern science like Galileo's law of fall and Descartes' principle of inertia. This account of Fabri's theory is a novel one since his physics is commonly considered as a dogmatic rejection of the New Science, not essentially different from the medieval impetus theory. This book shows how New Science principles were taught in Jesuit Colleges in the 1640s, thus depicting the sophisticated manner in which new ideas were settling within the lion's den of Catholic education.

Encyclopedia of the Scientific Revolution Wilbur Applebaum, 2003-12-16. With unprecedented current coverage of the profound changes in the nature and practice of science in sixteenth and seventeenth century Europe, this comprehensive reference work addresses the individuals, ideas and institutions that defined culture in the age when the modern perception of nature, the universe and of our place in it is said to have emerged. Covering the historiography of the period, discussions of the Scientific Revolution's impact on its contemporaneous disciplines and in-depth analyses of the importance of historical context to major developments in the sciences. The *Encyclopedia of the Scientific Revolution* is an indispensable resource for students and researchers in the history and philosophy of science.

After Certainty Robert Pasnau, 2017-11-17. No part of philosophy is as disconnected from its history as is epistemology. *After Certainty* offers a reconstruction of that history understood as a series of changing expectations about the cognitive ideal that beings such as us might hope to achieve in a world such as this. The story begins with Aristotle and then looks at how his epistemic program was developed through later antiquity and into the Middle Ages before being dramatically reformulated in the seventeenth century. In watching these debates unfold over the centuries, one sees why epistemology has traditionally been embedded within a much larger sphere of concerns about human nature and the reality of the world we live in. It ultimately becomes clear why epistemology today has become a much narrower and specialized field concerned with the conditions under which it is true to say that someone knows something. Based on a series of lectures given at Oxford University, Robert Pasnau's book ranges widely over the history of philosophy.

and examines in some detail the rise of science as an autonomous discipline Ultimately Pasnau argues that we may have no good reasons to suppose ourselves capable of achieving even the most minimal standards for knowledge and the final chapter concludes with a discussion of faith and hope

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