

Philosophy of Mathematics & Mathematical Practice in the Seventeenth Century

Paolo Mancosu

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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

Nominalism and Constructivism in Seventeenth-Century Mathematical Philosophy David Sepkoski, 2013-05-24

What was the basis for the adoption of mathematics as the primary mode of discourse for describing natural events by a large

segment of the philosophical community in the seventeenth century In answering this question this book demonstrates that a significant group of philosophers shared the belief that there is no necessary correspondence between external reality and objects of human understanding which they held to include the objects of mathematical and linguistic discourse The result is a scholarly reliable but accessible account of the role of mathematics in the works of amongst others Galileo Kepler Descartes Newton Leibniz and Berkeley This impressive volume will benefit scholars interested in the history of philosophy mathematical philosophy and the history of mathematics

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

Mathematics and the Divine Teun Koetsier, Luc Bergmans, 2004-12-09 Mathematics and the Divine seem to correspond to diametrically opposed tendencies of the human mind Does the mathematician not seek what is precisely defined and do the objects intended by the mystic and the theologian not lie beyond definition Is mathematics not Man's search for a measure and isn't the Divine that which is immeasurable The present book shows that the domains of mathematics and the Divine which may seem so radically separated have throughout history and across cultures proved to be intimately related Religious activities such as the building of temples the telling of ritual stories or the drawing of enigmatic figures all display distinct mathematical features Major philosophical systems dealing with the Absolute and theological speculations focussing on our knowledge of the Ultimate have been based on or inspired by mathematics A series of chapters by an international team of experts highlighting key figures schools and trains of thought is presented here Chinese number mysticism the views of Pythagoras and Plato and their followers Nicholas of Cusa's theological geometry Spinozism and intuitionism as a philosophy of mathematics are treated side by side among many other themes in an attempt at creating a global view on the relation of mathematics and Man's quest for the Absolute in the course of history Mathematics and man's quest for the Absolute A selective history highlighting key figures schools and trains of thought An international team of historians presenting specific new findings as

well as general overviews Confronting and uniting otherwise compartmentalized information Imagined Civilizations Roger Hart,2013-08-15 Roger Hart debunks the long held belief that linear algebra developed independently in the West Accounts of the seventeenth century Jesuit Mission to China have often celebrated it as the great encounter of two civilizations The Jesuits portrayed themselves as wise men from the West who used mathematics and science in service of their mission Chinese literati official Xu Guangqi 1562 1633 who collaborated with the Italian Jesuit Matteo Ricci 1552 1610 to translate Euclid s Elements into Chinese reportedly recognized the superiority of Western mathematics and science and converted to Christianity Most narratives relegate Xu and the Chinese to subsidiary roles as the Jesuits translators followers and converts Imagined Civilizations tells the story from the Chinese point of view Using Chinese primary sources Roger Hart focuses in particular on Xu who was in a position of considerable power over Ricci The result is a perspective startlingly different from that found in previous studies Hart analyzes Chinese mathematical treatises of the period revealing that Xu and his collaborators could not have believed their declaration of the superiority of Western mathematics Imagined Civilizations explains how Xu s West served as a crucial resource While the Jesuits claimed Xu as a convert he presented the Jesuits as men from afar who had traveled from the West to China to serve the emperor 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 of 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 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 quantites 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

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