

Revolutions in Mathematics

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Revolutions In Mathematics

Wenceslao J. González



Revolutions In Mathematics:

Revolutions in Mathematics Donald Gillies, 1995 The essays in this book provide the first comprehensive treatment of the concept of revolution in mathematics In 1962 an exciting discussion of revolutions in the natural sciences was prompted by the publication of Kuhn's *The Structure of Scientific Revolutions* A fascinating but little known offshoot of this debate was begun in the USA in the mid 1970s can the concept of revolutions be applied to mathematics as well as science Michael Crowe declared that revolutions never occur in mathematics while Joseph Dauben argued that there have been mathematical revolutions and gave some examples The original papers of Crowe Dauben and Mehrtens are reprinted in this book together with additional chapters giving their current views To this are added new contributions from nine further experts in the history of mathematics who each discuss an important episode and consider whether it was a revolution This book is an excellent reference work and an ideal course text for both graduate and undergraduate courses in the history and philosophy of science and mathematics

Revolutions and Continuity in Greek Mathematics Michalis Sialaros, 2018-04-23 This volume brings together a number of leading scholars working in the field of ancient Greek mathematics to present their latest research In their respective area of specialization all contributors offer stimulating approaches to questions of historical and historiographical revolutions and continuity Taken together they provide a powerful lens for evaluating the applicability of Thomas Kuhn's ideas on scientific revolutions to the discipline of ancient Greek mathematics Besides the latest historiographical studies on geometrical algebra and premodern algebra the reader will find here some papers which offer new insights into the controversial relationship between Greek and pre-Hellenic mathematical practices Some other contributions place emphasis on the other edge of the historical spectrum by exploring historical lines of continuity between ancient Greek Byzantine and post-Hellenic mathematics The terminology employed by Greek mathematicians along with various non-textual and material elements is another topic which some of the essays in the volume explore Finally the last three articles focus on a traditionally rich source on ancient Greek mathematics namely the works of Plato and Aristotle

The Space of Mathematics Javier Echeverría, Andoni Ibarra, Thomas Mormann, 2012-10-25 No detailed description available for *The Space of Mathematics*

Revolution in Science I. Bernard Cohen, 1985 Cohen's exploration seeks to uncover nothing less than the nature of all scientific revolutions the stages by which they occur their time scale specific criteria for determining whether or not there has been a revolution and the creative factors in producing a revolutionary new idea

Critical Issues in Mathematics Education Philip Clarkson, Norma C. Presmeg, 2008-09-22 *Critical Issues in Mathematics Education* presents the significant contributions of Professor Alan Bishop within the mathematics education research community Six critical issues each of which have had paramount importance in the development of mathematics education research are reviewed and include a discussion of current developments in each area Teacher decision making spatial visualizing geometry teachers and research cultural social aspects of mathematics education sociopolitical issues and

values serve as the basic issues discussed in this examination of mathematics education over the last fifty years during which Professor Bishop has been active in the field. A comprehensive discussion of each of these topics is realized by offering the reader a classic research contribution of Professor Bishop's together with commentary and invited chapters from leading experts in the field of mathematics education. *Critical Issues in Mathematics Education* will make an invaluable contribution to the ongoing reflection of mathematics education researchers worldwide but also to policy makers and teacher educators who wish to understand some of the key issues with which mathematics education has been and still is concerned and the context within which Professor Bishop's key contributions to these research issues were made. **Conceptual Revolutions**

Wenceslao J. González, 2011 **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. Rethinking Thomas Kuhn's Legacy Yafeng Shan, 2024-08-09 Thomas Kuhn is widely considered as one of the most important philosophers of science in the 20th century and his *The Structure of Scientific Revolutions* is regarded as one of the most influential works in the philosophy of science. This book not only revisits his legacy in the history and philosophy of science but also explores and reflects on the prospect of the Kuhnian philosophy. Moreover, it includes the edited text of Kuhn's *Does Knowledge Grow* which was never published before. Comprised of 15 newly written chapters by leading Kuhn scholars and philosophers of science across the globe from ten countries, this book is of great interest to researchers and advanced students but also to general readers. **Logic, Epistemology, and the Unity of Science** Shahid Rahman, John Symons, Dov M. Gabbay, Jean Paul van Bendegem, 2009-03-16 The first volume in this new series explores through extensive co-operation new ways of achieving the integration of science in all its diversity. The book offers essays from important and influential philosophers in contemporary philosophy discussing a range of topics from philosophy of science to epistemology, philosophy of logic and game-theoretical approaches. It will be of interest to philosophers, computer scientists and all others interested in the scientific rationality. The Kuhnian Image of Science Moti Mizrahi, 2017-12-06 More than 50 years after the publication of Thomas Kuhn's seminal book *The Structure of Scientific Revolutions*, this volume assesses the adequacy of the Kuhnian model in explaining certain aspects of science, particularly the social and epistemic aspects of science. One argument put forward is that there are no good reasons to accept Kuhn's incommensurability thesis according to which scientific

revolutions involve the replacement of theories with conceptually incompatible ones Perhaps therefore it is time for another decisive transformation in the image of science by which we are now possessed Only this time the image of science that needs to be transformed is the Kuhnian one Does the Kuhnian image of science provide an adequate model of scientific practice If we abandon the Kuhnian picture of revolutionary change and incommensurability what consequences would follow from that vis vis our understanding of scientific knowledge as a social endeavour The essays in this collection continue this debate offering a critical examination of the arguments for and against the Kuhnian image of science as well as their implications for our understanding of science as a social and epistemic enterprise **In Defence of Reason** H.J.

Paton,2025-07-01 First published in 1951 *In Defence of Reason* is a series of philosophical essays written at various times Some of them are devoted to the interpretation of Kant's philosophy a subject which the author has made specially his own Many of them however are concerned with more general topics among which may be mentioned fashion and philosophy self identity and Existentialism as an attitude to life The main interest throughout is the defence of reason against views which reduce man to a plaything of circumstances and make his moral judgments the mere expression of non rational emotions This book will appeal to students and researchers of philosophy **The Newtonian Revolution** I. Bernard Cohen,1980 This volume presents Professor Cohen's original interpretation of the revolution that marked the beginnings of modern science and set Newtonian science as the model for the highest level of achievement in other branches of science It shows that Newton developed a special kind of relation between abstract mathematical constructs and the physical systems that we observe in the world around us by means of experiment and critical observation The heart of the radical Newtonian style is the construction on the mind of a mathematical system that has some features in common with the physical world this system was then modified when the deductions and conclusions drawn from it are tested against the physical universe Using this system Newton was able to make his revolutionary innovations in celestial mechanics and ultimately create a new physics of central forces and the law of universal gravitation Building on his analysis of Newton's methodology Professor Cohen explores the fine structure of revolutionary change and scientific creativity in general This is done by developing the concept of scientific change as a series of transformations of existing ideas It is shown that such transformation is characteristic of many aspects of the sciences and that the concept of scientific change by transformation suggests a new way of examining the very nature of scientific creativity *Thomas Kuhn's 'Linguistic Turn' and the Legacy of Logical Empiricism* Dr Stefano Gattei,2012-10-01 Presenting a critical history of the philosophy of science in the twentieth century focusing on the transition from logical positivism in its first half to the new philosophy of science in its second Stefano Gattei examines the influence of several key figures but the main focus of the book are Thomas Kuhn and Karl Popper Kuhn as the central figure of the new philosophy of science and Popper as a key philosopher of the time who stands outside both traditions Gattei makes two important claims about the development of the philosophy of science in the twentieth century that Kuhn is much closer to

positivism than many have supposed failing to solve the crisis of neopositivism and that Popper in responding to the deeper crisis of foundationalism that spans the whole of the Western philosophical tradition ultimately shows what is untenable in Kuhn's view. Gattei has written a very detailed and fine grained yet accessible discussion making exceptionally interesting use of archive materials. **The Growth of Mathematical Knowledge** Emily Grosholz, Herbert Breger, 2013-04-17

Mathematics has stood as a bridge between the Humanities and the Sciences since the days of classical antiquity. For Plato mathematics was evidence of Being in the midst of Becoming, garden variety evidence apparent even to small children and the unphilosophical and therefore of the highest educational significance. In the great central similes of *The Republic* it is the touchstone of intelligibility for discourse and in the *Timaeus* it provides in an oddly literal sense the framework of nature insuring the intelligibility of the material world. For Descartes mathematical ideas had a clarity and distinctness akin to the idea of God as the fifth of the *Meditations* makes especially clear. Cartesian mathematics are constructions as well as objects envisioned by the soul. In the *Principles* the work of the physicist who provides a quantified account of the machines of nature hovers between description and constitution. For Kant mathematics reveals the possibility of universal and necessary knowledge that is neither the logical unpacking of concepts nor the record of perceptual experience. In the *Critique of Pure Reason* mathematics is one of the transcendental instruments the human mind uses to apprehend nature and by apprehending to construct it under the universal and necessary laws of Newtonian mechanics. **From Natural Philosophy**

to the Sciences David Cahan, 2003-09-15 During the nineteenth century much of the modern scientific enterprise took shape. Scientific disciplines were formed, institutions and communities were founded and unprecedented applications to and interactions with other aspects of society and culture occurred. In this book eleven leading historians of science assess what their field has taught us about this exciting time and identify issues that remain unexamined or require reconsideration. They treat both scientific disciplines: biology, physics, chemistry, the earth sciences, mathematics and the social sciences in their specific intellectual and sociocultural contexts as well as the broader topics of science and medicine, science and religion, scientific institutions and communities and science, technology and industry. Providing a much needed overview and analysis of a rapidly expanding field, *From Natural Philosophy to the Sciences* will be essential for historians of science but also of great interest to scholars of all aspects of nineteenth century life and culture. Contributors: Bernadette Bensaude Vincent, Jed Z. Buchwald, David Cahan, Joseph Dauben, Frederick Gregory, Michael Hagner, Sungook Hong, David R. Oldroyd, Theodore M. Porter, Robert J. Richards, Ulrich Wengenroth. *Arguing on the Toulmin Model* David Hitchcock, Bart Verheij, 2007-01-24

Summarizing in *The Uses of Argument* Toulmin emphasized a number of points that are by now familiar but still deserve attention: 1 Reasoning and argument involve not only support for points of view but also attack against them. 2 Reasoning can have qualified conclusions. 3 There are other good types of argument than those of standard formal logic. 4 Unstated assumptions linking premisses to a conclusion are better thought of as inference licenses than as implicit premisses. 5

Standards of reasoning can be field dependent and can be themselves the subject of argumentation Each of these points is illustrated by his layout of arguments The rebuttal illustrates the first point the qualifier the second point and the warrant and backing the last three points 2 RECEPTION OF TOULMIN S BOOK As Toulmin himself notes in his essay in this volume which was delivered as an address in 2005 his fellow philosophers were initially hostile to the ideas in his book They were taken up however by specialists in fields like jurisprudence and psychology who found that they fit the forms of argument and reasoning that they were studying And Toulmin s model was embraced by the field of speech communication in the United States whose textbooks on argumentation now include an obligatory chapter on the Toulmin model of micro arguments Mathematical Reviews ,2000 *Patterns of Change* Ladislav Kvasz,2008-10-28 Kvasz s book is a contribution to the history and philosophy of mathematics or as one might say the historical approach to the philosophy of mathematics This approach is for mathematics what the history and philosophy of science is for science Yet the historical approach to the philosophy of science appeared much earlier than the historical approach to the philosophy of mathematics The first significant work in the history and philosophy of science is perhaps William Whewell s *Philosophy of the Inductive Sciences* founded upon their History This was originally published in 1840 a second enlarged edition appeared in 1847 and the third edition appeared as three separate works published between 1858 and 1860 Ernst Mach s *The Science of Mechanics A Critical and Historical Account of Its Development* is certainly a work of history and philosophy of science It first appeared in 1883 and had six further editions in Mach s lifetime 1888 1897 1901 1904 1908 and 1912 Duhem s *Aim and Structure of Physical Theory* appeared in 1906 and had a second enlarged edition in 1914 So we can say that history and philosophy of science was a well established field by the end of the 19 and the beginning of the 20 century By contrast the first significant work in the history and philosophy of mathematics is Lakatos s *Proofs and Refutations* which was published as a series of papers in the years 1963 and 1964

Ongoing Advancements in Philosophy of Mathematics Education Maria Aparecida Viggiani Bicudo,Bronislaw Czarnocha,Maurício Rosa,Małgorzata Marciniak,2023-09-30 *Ongoing Advancements in Philosophy of Mathematics Education* approaches the philosophy of mathematics education in a forward movement analyzing reflecting and proposing significant contemporary themes in the field of mathematics education The theme that gives life to the book is philosophy of mathematics education understood as arising from the intertwining between philosophy of mathematics and philosophy of education which through constant analytical and reflective work regarding teaching and learning practices in mathematics is materialized in its own discipline philosophy of mathematics education This is the field of investigation of the chapters in the book The chapters are written by an international cohort of authors from a variety of countries regions and continents Some of these authors work with philosophical and psychological foundations traditionally accepted by Western civilization Others expose theoretical foundations based on a new vision and comprising innovative approaches to historical and present day issues in educational philosophy The final third of the book is devoted to these unique and innovative

research stances towards important and change resistant societal topics such as racism technology gaps or the promotion of creativity in the field of mathematics education

The Scientific Revolution William E. Burns, 2001-10-23 An encyclopedic collection of key scientists and the tools and concepts they developed that transformed our understanding of the physical world Many are familiar with the ideas of Copernicus Descartes and Galileo But here the reader is also introduced to lesser known ideas and contributors to the Scientific Revolution such as the mathematical Bernoulli Family and Andreas Vesalius whose anatomical charts revolutionized the study of the human body More marginal characters include the magician Robert Fludd The encyclopedia also discusses subjects like Arabic science and the bizarre history of blood transfusions and institutions like the Universities of Padua and Leiden which were dominant forces in academic medicine and science

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