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in the History of Mathematics and
Physical Sciences 10

N.M. SWERDLOW
O. NEUGEBAUER

MATHEMATICAL
ASTRONOMY
IN COPERNICUS'S
DE REVOLUTIONIBUS
PART 1

Mathematical Astronomy In Copernicus De Revolutionibus In Two Parts

Jiyuan Zhang



Mathematical Astronomy In Copernicus De Revolutionibus In Two Parts:

Mathematical Astronomy in Copernicus' De Revolutionibus N.M. Swerdlow, O. Neugebauer, 2012-12-06 When I first laid out the framework for A History of Ancient Mathematical Astronomy I intended to carry the discussion down to the last applications of Greek astronomical methodology i e Copernicus Brahe and Kepler But as the work proceeded it became evident that this plan was much too ambitious and so I decided to terminate my History with late antiquity well before Islam Nevertheless I did not discard the running commentary that I had prepared when studying De revolutionibus in its relation to the methodology of the Almagest Only recently E S Kennedy and his collaborators had opened access to the Maragha School mainly Ibn ash Shalir revealing close parallels to Copernicus s procedures Accordingly it seemed useful to make available a modern analysis of De revolutionibus and thus in 1975 I prepared for publication Notes on Copernicus In the meantime however Noel Swerdlow also starting from Greek astronomy not only extended his work into a deep analysis of De revolutionibus but also systematically investigated its sources and predecessors Peurbach Regiomontanus etc I was aware of these studies through his publications as well as from numerous conversations on the subject at The Institute for Advanced Study and at Brown University It became clear to me that my own investigations lay at too superficial a level and I therefore withdrew my manuscript and suggested to Swerdlow that he undertake a thoroughgoing revision and amplification of my Notes His acceptance of my proposal initiated the present publication

Mathematical Astronomy in Copernicus' De Revolutionibus N.M. Swerdlow, O. Neugebauer, 1984-07-02 When I first laid out the framework for A History of Ancient Mathematical Astronomy I intended to carry the discussion down to the last applications of Greek astronomical methodology i e Copernicus Brahe and Kepler But as the work proceeded it became evident that this plan was much too ambitious and so I decided to terminate my History with late antiquity well before Islam Nevertheless I did not discard the running commentary that I had prepared when studying De revolutionibus in its relation to the methodology of the Almagest Only recently E S Kennedy and his collaborators had opened access to the Maragha School mainly Ibn ash Shalir revealing close parallels to Copernicus s procedures Accordingly it seemed useful to make available a modern analysis of De revolutionibus and thus in 1975 I prepared for publication Notes on Copernicus In the meantime however Noel Swerdlow also starting from Greek astronomy not only extended his work into a deep analysis of De revolutionibus but also systematically investigated its sources and predecessors Peurbach Regiomontanus etc I was aware of these studies through his publications as well as from numerous conversations on the subject at The Institute for Advanced Study and at Brown University It became clear to me that my own investigations lay at too superficial a level and I therefore withdrew my manuscript and suggested to Swerdlow that he undertake a thoroughgoing revision and amplification of my Notes His acceptance of my proposal initiated the present publication

Copernicus and the Aristotelian Tradition André Goddu, 2010-01-01 Drawing on a half century of scholarship of Polish studies of Copernicus and Cracow University and of Copernicus s sources this book offers a

comprehensive re evaluation of Copernicus s achievement and explains his commitment to the uniform circular motions of celestial bodies and his views about hypotheses

Cosmology in the Early Modern Age: A Web of Ideas Paolo Bussotti, Brunello Lotti, 2023-01-05 This volume addresses the history and epistemology of early modern cosmology The authors reconstruct the development of cosmological ideas in the age of scientific revolution from Copernicus to Leibniz taking into account the growth of a unified celestial and terrestrial mechanics The volume investigates how in the rise of the new science cosmology displayed deep and multifaceted interrelations between scientific notions stemming from mechanics mathematics geometry astronomy and philosophical concepts These were employed to frame a general picture of the universe as well as to criticize and interpret scientific notions and observational data This interdisciplinary work reconstructs a conceptual web pervaded by various intellectual attitudes and drives It presents an historical epistemological unified itinerary which includes Copernicus Kepler Galileo Descartes Huygens Newton and Leibniz For each of the scientists and philosophers a presentation and commentary is made of their cosmological views and where relevant outlines of their most relevant physical concepts are given Furthermore the authors highlight the philosophical and epistemological implications of their scientific works This work is helpful both as a synthetic overview of early modern cosmology and an analytical exposition of the elements that were intertwined in early modern cosmology This book addresses historians philosophers and scientists and can also be used as a research source book by post graduate students in epistemology history of science and history of philosophy

Philosophy and Theology in the Long Middle Ages Kent Emery, Russell Friedman, Andreas Speer, 2011-03-05 The title of this Festschrift to Stephen Brown points to the understanding of medieval philosophy and theology in the longue dur e of their traditions and discourses The 35 contributions are disposed in five parts Metaphysics and Natural Philosophy Epistemology and Ethics Philosophy and Theology Theological Questions Text and Context

The Doctrine of Triangles Glen Van Brummelen, 2025-06-17 An interdisciplinary history of trigonometry from the mid sixteenth century to the early twentieth The Doctrine of Triangles offers an interdisciplinary history of trigonometry that spans four centuries starting in 1550 and concluding in the 1900s Glen Van Brummelen tells the story of trigonometry as it evolved from an instrument for understanding the heavens to a practical tool used in fields such as surveying and navigation In Europe China and America trigonometry aided and was itself transformed by concurrent mathematical revolutions as well as the rise of science and technology Following its uses in mid sixteenth century Europe as the foot of the ladder to the stars and the mathematical helpmate of astronomy trigonometry became a ubiquitous tool for modeling various phenomena including animal populations and sound waves In the late sixteenth century trigonometry increasingly entered the physical world through the practical disciplines and its societal reach expanded with the invention of logarithms Calculus shifted mathematical reasoning from geometric to algebraic patterns of thought and trigonometry s participation in this new mathematical analysis grew encouraging such innovations as complex numbers and non Euclidean geometry Meanwhile in

China trigonometry was evolving rapidly too sometimes merging with indigenous forms of knowledge and with Western discoveries In the nineteenth century trigonometry became even more integral to science and industry as a fundamental part of the science and engineering toolbox and a staple subject in high school classrooms A masterful combination of scholarly rigor and compelling narrative The Doctrine of Triangles brings trigonometry's rich historical past full circle into the modern era

Before Copernicus Rivka Feldhay, F. Jamil Ragep, 2017-06-12 In 1984 Noel Swerdlow and Otto Neugebauer argued that Nicolaus Copernicus 1473-1543 explained planetary motion by using mathematical devices and astronomical models originally developed by Islamic astronomers in the thirteenth and fourteenth centuries Was this a parallel development or did Copernicus somehow learn of the work of his predecessors and if so how And if Copernicus did use material from the Islamic world how then should we understand the European context of his innovative cosmology Although Copernicus's work has been subject to a number of excellent studies there has been little attention paid to the sources and diverse cultures that might have inspired him Foregrounding the importance of interactions between Islamic and European astronomers and philosophers Before Copernicus explores the multi-cultural, multi-religious and multi-lingual context of learning on the eve of the Copernican revolution determining the relationship between Copernicus and his predecessors Essays by Christopher Celenza and Nancy Bisaha delve into the European cultural and intellectual contexts of the fifteenth century revealing both the profound differences between them and us and the nascent attitudes that would mark the turn to modernity Michael Shank F. Jamil Ragep Sally Ragep and Robert Morrison depict the vibrant and creative work of astronomers in the Christian, Islamic and Jewish worlds In other essays Rivka Feldhay Raz Chen Morris and Edith Sylla demonstrate the importance of shifting outlooks that were critical for the emergence of a new worldview Highlighting the often neglected intercultural exchange between Islam and early modern Europe Before Copernicus reimagines the scientific revolution in a global context

Literature 1984, Part 2 S. Böhme, Prof. Dr. Walter Fricke, H. Hefele, Inge Heinrich, W. Hofmann, D. Krahn, V. R. Matas, Dr. Lutz D. Schmadel, G. Zech, 2013-04-17 *Finding our Place in the Solar System* Todd Timberlake, Paul Wallace, 2019-03-28 Finding our Place in the Solar System gives a detailed account of how the Earth was displaced from its traditional position at the center of the universe to be recognized as one of several planets orbiting the Sun under the influence of a universal gravitational force The transition from the ancient geocentric worldview to a modern understanding of planetary motion often called the Copernican Revolution is one of the great intellectual achievements of humankind This book provides a deep yet accessible explanation of the scientific disputes over our place in the solar system and the work of the great scientists who helped settle them Readers will come away knowing not just that the Earth orbits the Sun but why we believe that it does so The Copernican Revolution also provides an excellent case study of what science is and how it works

The Life of Copernicus (1473-1543) Pierre Gassendi, Olivier Thill, 2002 **Natural Philosophy** Alister E. McGrath, 2023 This book argues for the retrieval of the concept of natural philosophy encompassing the natural sciences, philosophy and theology

amongst others It identifies the essential characteristics of natural philosophy from its Aristotelian roots onwards and then makes a creative proposal on how we might reincorporate it into our current worldview **A New Approach to**

Differential Geometry using Clifford's Geometric Algebra John Snýgg,2011-12-08 Differential geometry is the study of the curvature and calculus of curves and surfaces A New Approach to Differential Geometry using Clifford's Geometric Algebra simplifies the discussion to an accessible level of differential geometry by introducing Clifford algebra This presentation is relevant because Clifford algebra is an effective tool for dealing with the rotations intrinsic to the study of curved space Complete with chapter by chapter exercises an overview of general relativity and brief biographies of historical figures this comprehensive textbook presents a valuable introduction to differential geometry It will serve as a useful resource for upper level undergraduates beginning level graduate students and researchers in the algebra and physics communities **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 **Studies in the Making**

of Islamic Science: Knowledge in Motion Muzaffar Iqbal,2017-05-15 Situated between the Greek Indian and Persian scientific traditions and modern science the Islamic scientific tradition received enriched transformed and then bequeathed scientific knowledge to Europe The articles selected for this volume explore the fascinating process of knowledge in motion between different civilizations *1543 and All That* G. Freeland,Anthony Corones,2013-11-09 Australia and New Zealand

boast an active community of scholars working in the field of history philosophy and social studies of science Australasian Studies in History and Philosophy of Science aims to provide a distinctive publication of essays on a connected outlet for their work Each volume comprises a group theme edited by an Australian or a New Zealander with special expertise in that particular area In each volume a majority of the contributors is from Australia or New Zealand Contributions from elsewhere are by no means ruled out however and are indeed actively encouraged wherever appropriate to the balance of the volume in question Earlier volumes in the series have been welcomed for significantly advancing the discussion of the topics they have dealt with I believe that the present volume will be greeted equally enthusiastically by readers in many parts of the world R

W Horne General Editor Australasian Studies in History and Philosophy of Science ix LIST OF ILLUSTRATIONS Frontispiece

Andreas Vesalius Sixth Plate of the Muscles woodcut designed by Jan Steven van Kalker from *De humani corporis fabrica*

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FREELAND Introduction In Praise of Toothing Stones Fig 1 Michael Esson Vesalian Interpretation 3 1992 Repr by kind

permission of the Artist Fig 2 Reliefs University of Padua **The Power of Images in Early Modern Science** Wolfgang

Lefèvre,Jürgen Renn,Urs Schoepflin,2012-12-06 Wolfgang Lefevre Jürgen Renn and Urs Schoepflin General The origin of this

volume is a workshop held has a deeper more complex structure which in 1997 in Berlin as part of a series of work must be

assumed if its analysis is only based on shops organized in the framework of the on text. In fact, the analysis of the function of Network on Science and the Visual Images in the early modern period shows that 1500-1800, funded by the European Science Foundation, mediated not only between science and its cultural context but also between practical knowledge and its theoretical reflection, thoroughly revised and prepared for publication in scientific theories together with additionally invited papers. The analysis of images thus constitutes an important branch of the history of science we hope corresponds to the original intention that on the one hand is conceived of as part of the Network to contribute to a history of a more general history of culture and on the other hand as a historical epistemology of history of science still neglected because of knowledge. This book is not a systematic and comprehensive account of scientific images on texts corresponding to a concentration on the early modern period.

Encyclopedia of Cosmology (Routledge Revivals) Norriss S. Hetherington, 2014-04-08. The Encyclopedia of Cosmology first published in 1993 recounts the history, philosophical assumptions, methodological ambiguities, and human struggles that have influenced the various responses to the basic questions of cosmology through the ages as well as referencing important scientific theories. Just as the recognition of social conventions in other cultures can lead to a more productive perspective on our own behaviour, so too a study of the cosmologies of other times and places can enable us to recognise elements of our own cosmology that might otherwise pass as inevitable developments. Apart from modern natural science, therefore, this volume incorporates brief treatments of Native American, Cave Dweller, Chinese, Egyptian, Islamic, Megalithic, Mesopotamian, Greek, Medieval, and Copernican cosmology, leading to an appreciation of cosmology as an intellectual creation, not merely a collection of facts. It is a valuable reference tool for any student or academic with an interest in the history of science and cosmology specifically.

Islam, Science, and the Challenge of History Ahmad Dallal, 2010-05-18. In this wide-ranging and masterly work, Ahmad Dallal examines the significance of scientific knowledge and situates the culture of science in relation to other cultural forces in Muslim societies. He traces the ways the realms of scientific knowledge and religious authority were delineated historically. For example, the emergence of new mathematical methods revealed that many mosques built in the early period of Islamic expansion were misaligned relative to the Kaaba in Mecca; this misalignment was critical because Muslims must face Mecca during their five daily prayers. The realization of a discrepancy between tradition and science often led to demolition and rebuilding and, most important, to questioning whether scientific knowledge should take precedence over religious authority in a matter where their realms clearly overlapped.

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Beyond the Meme Alan C. Love, William Wimsatt, 2019-09-03. Interdisciplinary perspectives on cultural evolution that reject meme theory in favor of a complex understanding of dynamic change over time. How do cultures change? In recent decades, the concept of the meme, posited as a basic unit of culture analogous to the gene, has been central to

debates about cultural transformation Despite the appeal of meme theory its simplification of complex interactions and other inadequacies as an explanatory framework raise more questions about cultural evolution than it answers In *Beyond the Meme* William C Wimsatt and Alan C Love assemble interdisciplinary perspectives on cultural evolution providing a nuanced understanding of it as a process in which dynamic structures interact on different scales of size and time By focusing on the full range of evolutionary processes across distinct contexts from rice farming to scientific reasoning this volume demonstrates how a thick understanding of change in culture emerges from multiple disciplinary vantage points each of which is required to understand cultural evolution in all its complexity The editors provide an extensive introductory essay to contextualize the volume and Wimsatt contributes a separate chapter that systematically organizes the conceptual geography of cultural processes and phenomena Any adequate account of the transmission elaboration and evolution of culture must this volume argues recognize the central roles that cognitive and social development play in cultural change and the complex interplay of technological organizational and institutional structures needed to enable and coordinate these processes Contributors Marshall Abrams U of Alabama at Birmingham Claes Andersson Chalmers U of Technology Mark A Bedau Reed College James A Evans U of Chicago Jacob G Foster U of California Los Angeles Michel Janssen U of Minnesota Sabina Leonelli U of Exeter Massimo Maiocchi U of Chicago Joseph D Martin U of Cambridge Salikoko S Mufwene U of Chicago Nancy J Nersessian Georgia Institute of Technology and Harvard U Paul E Smaldino U of California Merced Anton T rnberg U of Gothenburg Petter T rnberg U of Amsterdam Gilbert B Tostevin U of Minnesota

Tradition, Transmission, Transformation Ragep, 2023-09-20 This volume is the outcome of two conferences held at the University of Oklahoma in 1992 and 1993 which dealt with issues of transmission and subsequent cultural transformations that occurred in the premodern histories of mathematics and science Some twenty contributors explore transmission from a variety of perspectives including the role of language and other facets of culture in the transmission process the interaction of popular and elite science in transmission successful and less than successful episodes of scientific appropriation and the role of institutions in this process The volume uses the theme of transmission as a way to focus debate on the perennial issue of the continuity and discontinuity of ideas in the history of sciences

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