

Appraising Lakatos

Mathematics, Methodology and the Man

edited by
George Kampis, Ladislav Kvassz
and Michael Stöltzner



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Appraising Lakatos

Deborah A. Redman



Appraising Lakatos:

Appraising Lakatos György Kampis, George Kampis, Ladislav Kvasz, Michael Stöltzner, 2002-03-31 This volume presents a critical re evaluation of the ideas of Imre Lakatos a leader in the shaping of what is called the new philosophy of science The 17 contributions the result of a joint venture between the Institute Vienna Circle and the Institute for History and Philosophy of Science of Eotvos U Budapest address his main theme of locating rationality within the scientific process as well as his philosophy of mathematics which emphasizes heuristics and mathematical practice over logical justification They also include discussion of his personal life and politics and contain a part of his Debrecen Ph D thesis as well as a bibliography of his Hungarian writings Edited by Kampis Eotvos U Ladislav Kvasz Comenius U and Michael Stoltzner Institute Vienna Circle Annotation copyrighted by Book News Inc Portland OR **Appraising Lakatos** Gyorgy

Kampis, Ladislav Kvasz, Michael Stoltzner, 2014-01-15 **Proofs and Research Programmes: Lakatos at 100** Roman Frigg, J. McKenzie Alexander, Laurenz Hudetz, Miklos Rédei, Lewis Ross, John Worrall, 2025-08-10 This open access book offers new insights into issues raised in philosophy of mathematics and in philosophy of science by Imre Lakatos Lakatos was one of the most significant philosophers of the 20th Century and his ideas remain important and relevant today November 2022 saw the centenary of Lakatos s birth and the event was marked by an international conference held at the LSE where Lakatos made his career after he had emigrated from Hungary to England This volume consists of a selection of papers presented at the conference along with two additional contributions to debates about Lakatos s continuing influence and importance

Imre Lakatos and Theories of Scientific Change K. Gavroglu, Yorgos Goudaroulis, P. Nicolacopoulos, 2012-12-06 How happy it is to recall Imre Lakatos Now fifteen years after his death his intelligence wit generosity are vivid In the Preface to the book of Essays in Memory of Imre Lakatos Boston Studies 39 1976 the editors wrote Lakatos was a man in search of rationality in all of its forms He thought he had found it in the historical development of scientific knowledge yet he also saw rationality endangered everywhere To honor Lakatos is to honor his sharp and aggressive criticism as well as his humane warmth and his quick wit He was a person to love and to struggle with The book before us carries old and new friends of that Lakatosian spirit further into the issues which he wanted to investigate That the new friends include a dozen scientific historical and philosophical scholars from Greece would have pleased Lakatos very much and with an essay from China he would have smiled all the more But the key lies in the quality of these papers and in the imaginative organization of the conference at Thessaloniki in summer 1986 which worked so well [Handbook of the History and Philosophy of](#)

[Mathematical Practice](#) Bharath Sriraman, 2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins

debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy Editorial Advisory Board Andrew Aberdein Florida Institute of Technology USA Jody Azzouni Tufts University USA Ot vio Bueno University of Miami USA William Byers Concordia University Canada Carlo Cellucci Sapienza University of Rome Italy Chandler Davis University of Toronto Canada 1926 2022 Paul Ernest University of Exeter UK Michele Friend George Washington University USA Reuben Hersh University of New Mexico USA 1927 2020 Kyeong Hwa Lee Seoul National University South Korea Yuri Manin Max Planck Institute for Mathematics Germany 1937 2023 Athanase Papadopoulos University of Strasbourg France Ulf Persson Chalmers University of Technology Sweden John Stillwell University of San Francisco USA David Tall University of Warwick UK 1941 2024 This book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about the role of abstraction of proof and manners of proof about the interplay of fundamental intuitions about algebraic thought in contrast to geometric thought The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches Enriched as well with vivid biographies and brilliant personal essays written by and about people who play an important role in our tradition this extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis Reuben Hersh and Yuri Manin Barry Mazur Gerhard Gade University Professor Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics Whether one is interested in individuals from Pythagoras through Newton and Leibniz to Grothendieck fields geometry algebra number theory logic probability analysis viewpoints from Platonism to Intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate John Stillwell Emeritus Professor of Mathematics University of San Francisco Recipient of the 2005 Chauvenet Prize Dedicating a volume to the memory of three mathematicians Chandler Davis Reuben Hersh and Yuri Manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent initiative Gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor in chief The result a great source of potential inspiration Jean Pierre Bourguignon Nicolaas Kuiper Honorary Professor at the Institut des Hautes tudes Scientifiques

Appraising Economic Theories Neil De Marchi, Mark Blaug, 1991 Papers produced for a conference of economists economic methodologists and historians of economics convened to reflect on the question of whether MSRP the methodology of scientific research programmes has proved useful in the light of 20 years experience *Philosophical Dimensions in Mathematics Education* Karen Francois, Jean Paul Van Bendegem, 2007-11-15 This book brings together diverse recent

developments exploring philosophy of mathematics in education The unique combination of ethnomathematics philosophy history education statistics and mathematics offers a variety of different perspectives from which existing boundaries in mathematics education can be extended The ten chapters in this book offer a balance between philosophy of and philosophy in mathematics education Attention is paid to the implementation of a philosophy of mathematics within the mathematics curriculum to become a philosophy in mathematics education In doing so many chapters provide ideas for actual practice and some practical examples directly usable in teacher training and in mathematics classrooms

Critical Appraisal of Physical Science as a Human Enterprise Mansoor Niaz, 2009-02-07 It is generally believed that doing science means accumulating empirical data with no or little reference to the interpretation of the data based on the scientist's theoretical framework or presuppositions Holton 1969a has deplored the widely accepted myth experimenticism according to which progress in science is presented as the inexorable result of the pursuit of logically sound conclusions from unambiguous experimental data Surprisingly some of the leading scientists themselves Millikan is a good example have contributed to perpetuate the myth with respect to modern science being essentially empirical that is carefully tested experimental facts free of a priori conceptions leading to inductive generalizations Based on the existing knowledge in a field of research a scientist formulates the guiding assumptions Laudan et al 1988 presuppositions Holton 1978 1998 and hard core Lakatos 1970 of the research program that constitutes the imperative of presuppositions which is not abandoned in the face of anomalous data Laudan and his group consider the following paraphrase of Kant by Lakatos as an important guideline philosophy of science without history of science is empty Starting in the 1960s this historical school has attempted to redraw and replace the positivist or logical empiricist image of science that dominated for the first half of the twentieth century Among other aspects one that looms large in these studies is that of guiding assumptions and has considerable implications for the main thesis of this monograph Chapter 2

Explanation, Prediction, and Confirmation Dennis Dieks, Wenceslao J. Gonzalez, Stephan Hartmann, Thomas Uebel, Marcel Weber, 2011-03-24 This volume the second in the Springer series Philosophy of Science in a European Perspective contains selected papers from the workshops organised by the ESF Research Networking Programme PSE The Philosophy of Science in a European Perspective in 2009 Five general topics are addressed 1 Formal Methods in the Philosophy of Science 2 Philosophy of the Natural and Life Sciences 3 Philosophy of the Cultural and Social Sciences 4 Philosophy of the Physical Sciences 5 History of the Philosophy of Science This volume is accordingly divided in five sections each section containing papers coming from the meetings focussing on one of these five themes However these sections are not completely independent and detached from each other For example an important connecting thread running through a substantial number of papers in this volume is the concept of probability probability plays a central role in present day discussions in formal epistemology in the philosophy of the physical sciences and in general methodological debates it is central in discussions concerning explanation prediction and confirmation The volume thus also attempts to represent the

intellectual exchange between the various fields in the philosophy of science that was central in the ESF workshops **A Philosophical Approach to MOND** David Merritt, 2020-04-30 Outlining Modified Newtonian Dynamics MOND this volume assesses its viability as the leading alternative to the standard cosmological model *Epistemology of Experimental Gravity - Scientific Rationality* Nicolae Sfetcu, 2019 The evolution of gravitational tests from an epistemological perspective framed in the concept of rational reconstruction of Imre Lakatos based on his methodology of research programmes Unlike other works on the same subject the evaluated period is very extensive starting with Newton's natural philosophy and up to the quantum gravity theories of today In order to explain in a more rational way the complex evolution of the gravity concept of the last century I propose a natural extension of the methodology of the research programmes of Lakatos that I then use during the paper I believe that this approach offers a new perspective on how evolved over time the concept of gravity and the methods of testing each theory of gravity through observations and experiments I argue based on the methodology of the research programmes and the studies of scientists and philosophers that the current theories of quantum gravity are degenerative due to the lack of experimental evidence over a long period of time and of self immunization against the possibility of falsification Moreover a methodological current is being developed that assigns a secondary unimportant role to verification through observations and or experiments For this reason it will not be possible to have a complete theory of quantum gravity in its current form which to include to the limit the general relativity since physical theories have always been adjusted during their evolution based on observational or experimental tests and verified by the predictions made Also contrary to a widespread opinion and current active programs regarding the unification of all the fundamental forces of physics in a single final theory based on string theory I argue that this unification is generally unlikely and it is not possible anyway for a unification to be developed based on current theories of quantum gravity including string theory In addition I support the views of some scientists and philosophers that currently too much resources are being consumed on the idea of developing quantum gravity theories and in particular string theory to include general relativity and to unify gravity with other forces as long as science does not impose such research programs

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George A. Reisch, 2019-04-16 The Politics of Paradigms shows that America's most famous and influential book about science *The Structure of Scientific Revolutions* of 1962 was inspired and shaped by Thomas Kuhn's political interests his relationship with the influential cold warrior James Bryant Conant and America's McCarthy era struggle to resist and defeat totalitarian ideology Through detailed archival research Reisch shows how Kuhn's well known theories of paradigms crises and scientific revolutions emerged from within urgent political worries on campus and in the public sphere about the invisible unconscious powers of ideology language and history to shape the human mind and its experience of the world

John von Neumann and the Foundations of Quantum Physics Miklós Rédei, Michael Stöltzner, 2013-03-09 John von Neumann 1903-1957 was undoubtedly one of the scientific geniuses of the 20th century The main fields to which he contributed include various disciplines of pure and applied mathematics mathematical and theoretical physics logic theoretical computer science and computer architecture Von Neumann was also actively involved in politics and science management and he had a major impact on US government decisions during and especially after the Second World War There exist several popular books on his personality and various collections focusing on his achievements in mathematics computer science and economy Strangely enough to date no detailed appraisal of his seminal contributions to the mathematical foundations of quantum physics has appeared Von Neumann's theory of measurement and his critique of hidden variables became the touchstone of most debates in the foundations of quantum mechanics Today his name also figures most prominently in the mathematically rigorous branches of contemporary quantum mechanics of large systems and quantum field theory And finally as one of his last lectures published in this volume for the first time shows he considered the relation of quantum logic and quantum mechanical probability as his most important problem for the second half of the twentieth century The present volume embraces both historical and systematic analyses of his methodology of mathematical physics and of the various aspects of his work in the foundations of quantum physics such as theory of measurement quantum logic and quantum mechanical entropy The volume is rounded off by previously unpublished letters and lectures documenting von Neumann's thinking about quantum theory after his 1932 *Mathematical Foundations of Quantum Mechanics* The general part of the Yearbook contains papers emerging from the Institute's annual lecture series and reviews

of important publications of philosophy of science and its history *The Oxford Handbook of Philosophy of Political Science*
 Harold Kincaid, Jeroen Van Bouwel, 2023 The Oxford Handbook of Philosophy of Political Science brings together
 philosophers of science and political scientists to discuss philosophical issues in political science The book offers twenty
 seven essays on how to do research in political science the purposes and use of political science in society as well as how to
 evaluate claims made by political scientists **Explanation and Proof in Mathematics** Gila Hanna, Hans Niels
 Jahnke, Helmut Pulte, 2009-12-04 In the four decades since Imre Lakatos declared mathematics a quasi empirical science
 increasing attention has been paid to the process of proof and argumentation in the field a development paralleled by the rise
 of computer technology and the mounting interest in the logical underpinnings of mathematics Explanation and Proof in
 Mathematics assembles perspectives from mathematics education and from the philosophy and history of mathematics to
 strengthen mutual awareness and share recent findings and advances in their interrelated fields With examples ranging from
 the geometrists of the 17th century and ancient Chinese algorithms to cognitive psychology and current educational practice
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 Mathematics is certain to attract a wide range of readers including mathematicians mathematics education professionals
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 Economics** Daniel M. Hausman, 1992-01-31 This book offers a comprehensive overview of the structure strategy and
 methods of assessment of orthodox theoretical economics Model-Based Reasoning in Science and Technology Lorenzo
 Magnani, Claudia Casadio, 2016-07-01 This book discusses how scientific and other types of cognition make use of models
 abduction and explanatory reasoning in order to produce important or creative changes in theories and concepts It includes
 revised contributions presented during the international conference on Model Based Reasoning MBR 015 held on June 25 27
 in Sestri Levante Italy The book is divided into three main parts the first of which focuses on models reasoning and
 representation It highlights key theoretical concepts from an applied perspective addressing issues concerning information
 visualization experimental methods and design The second part goes a step further examining abduction problem solving and
 reasoning The respective contributions analyze different types of reasoning discussing various concepts of inference and
 creativity and their relationship with experimental data In turn the third part reports on a number of historical
 epistemological and technological issues By analyzing possible contradictions in modern research and describing

representative case studies in experimental research this part aims at fostering new discussions and stimulating new ideas All in all the book provides researchers and graduate students in the field of applied philosophy epistemology cognitive science and artificial intelligence alike with an authoritative snapshot of current theories and applications of model based reasoning

Economics and the Philosophy of Science Deborah A. Redman, 1991 Economists and other social scientists in this century have often supported economic arguments by referring to positions taken by philosophers of science This important new book looks at the reliability of this practice and in the process provides economists social scientists and historians with the necessary background to discuss methodological matters with authority Redman presents an accurate critical yet neutral survey of the modern philosophy of science from the Vienna Circle to the present focusing particularly on logical positivism sociological explanations of science Polanyi Fleck Kuhn the Popper family and the history of science She then deals with economic methodology in the twentieth century looking at a wide range of methodological positions especially those supported by positions from the philosophy of science

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

Reflection Without Rules D. Wade Hands, 2001-04-09 This book is a comprehensive and often controversial survey of economic methodology

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