

JEREMY GRAY



HENRI POINCARÉ

A Scientific Biography

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Henri Poincare A Scientific Biography

Christos Skiadas



Henri Poincare A Scientific Biography:

Henri Poincare: A Biography Through The Daily Papers Jean-marc Ginoux, Christian Gerini, 2013-10-10 On July 17 2012 the centenary of Henri Poincaré's death was commemorated his name being associated with so many fields of knowledge that he was considered as the Last Universalist In Pure and Applied Mathematics Physics Astronomy Engineering and Philosophy his works have had a great impact all over the world Poincaré acquired in his lifetime such a reputation that both nationally and internationally his life and career were made the object of various articles in the daily papers not only in France but also in the USA Some of his philosophical concepts have even caused sharp controversies in the Press as we will discover in this book This work presents an original portrait of Henri Poincaré based on various press cuttings from The New York Times The San Francisco Sunday Call The Times The Sun The Washington Post that chronicled unknown anecdotes of his life for example his first name was actually not Henri but Henry he obtained his high school diploma in sciences with a zero in mathematics etc Such an approach enables the discovering of many forgotten or unknown aspects of his scientific and philosophical works as well as his important role in the public sphere

Henri Poincare: A Scientific Biography Jeremy Gray, 2012-01-01 Henri Poincaré 1854 1912 was not just one of the most inventive versatile and productive mathematicians of all time he was also a leading physicist who almost won a Nobel Prize for physics and a prominent philosopher of science whose fresh and surprising essays are still in print a century later The first in depth and comprehensive look at his many accomplishments Henri Poincaré explores all the fields that Poincaré touched the debates sparked by his original investigations and how his discoveries still contribute to society today Math historian Jeremy Gray shows that Poincaré's influence was wide ranging and permanent His novel interpretation of non Euclidean geometry challenged contemporary ideas about space stirred heated discussion and led to flourishing research His work in topology began the modern study of the subject recently highlighted by the successful resolution of the famous Poincaré conjecture And Poincaré's reformulation of celestial mechanics and discovery of chaotic motion started the modern theory of dynamical systems In physics his insights on the Lorentz group preceded Einstein's and he was the first to indicate that space and time might be fundamentally atomic Poincaré the public intellectual did not shy away from scientific controversy and he defended mathematics against the attacks of logicians such as Bertrand Russell opposed the views of Catholic apologists and served as an expert witness in probability for the notorious Dreyfus case that polarized France Richly informed by letters and documents Henri Poincaré demonstrates how one man's work revolutionized math science and the greater world

Henri Poincaré (eGalley) Jeremy Gray, Henri Poincaré Ferdinand Verhulst, 2012-08-11 The book describes the life of Henri Poincaré his work style and in detail most of his unique achievements in mathematics and physics Apart from biographical details attention is given to Poincaré's contributions to automorphic functions differential equations and dynamical systems celestial mechanics mathematical physics in particular the theory of the electron and relativity topology analysis situs A chapter on philosophy explains Poincaré's conventionalism in

mathematics and his view of conventionalism in physics the latter has a very different character In the foundations of mathematics his position is between intuitionism and axiomatics One of the purposes of the book is to show how Poincar reached his fundamentally new results in many different fields how he thought and how one should read him One of the new aspects is the description of two large fields of his attention dynamical systems as presented in his book on new methods for celestial mechanics and his theoretical physics papers At the same time it will be made clear how analysis and geometry are intertwined in Poincar s thinking and work In dynamical systems this becomes clear in his description of invariant manifolds his association of differential equation flow with mappings and his fixed points theory There is no comparable book on Poincar presenting such a relatively complete vision of his life and achievements There exist some older biographies in the French language but they pay only restricted attention to his actual work The reader can obtain from this book many insights in the working of a very original mind while at the same time learning about fundamental results for modern science

Poincaré, Philosopher of Science María de Paz,Robert DiSalle,2014-04-11 This volume presents a selection of papers from the Poincar Project of the Center for the Philosophy of Science University of Lisbon bringing together an international group of scholars with new assessments of Henri Poincar s philosophy of science both its historical impact on the foundations of science and mathematics and its relevance to contemporary philosophical inquiry The work of Poincar 1854 1912 extends over many fields within mathematics and mathematical physics But his scientific work was inseparable from his groundbreaking philosophical reflections and the scientific ferment in which he participated was inseparable from the philosophical controversies in which he played a pre eminent part The subsequent history of the mathematical sciences was profoundly influenced by Poincar s philosophical analyses of the relations between and among mathematics logic and physics and more generally the relations between formal structures and the world of experience The papers in this collection illuminate Poincar s place within his own historical context as well as the implications of his work for ours **Reader's**

Guide to the History of Science Arne Hessenbruch,2013-12-16 The Reader s Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn *New Dictionary of Scientific Biography* Noretta Koertge,2008 Also available online as part of the Gale Virtual Reference Library under the title Complete dictionary of scientific biography

Henri Poincare Jean-Marc Ginoux,Christian Gerini,2014 On July 17 2012 the centenary of Henri Poincar s death was commemorated his name being associated with so many fields of knowledge that he was considered as the Last Universalist In Pure and Applied Mathematics Physics Astronomy Engineering and Philosophy his works have had a great impact all over the world Poincar acquired in his lifetime such a reputation that both nationally and internationally his life and career were made the object of various articles in the

daily papers not only in France but also in the USA Some of his philosophical concepts have even caused sharp controversies in the Press as we will discover in this book This work presents an original portrait of Henri Poincaré based on various press cuttings from The New York Times The San Francisco Sunday Call The Times The Sun The Washington Post that chronicled unknown anecdotes of his life for example his first name was actually not Henri but Henry he obtained his high school diploma in sciences with a zero in mathematics etc Such an approach enables the discovering of many forgotten or unknown aspects of his scientific and philosophical works as well as his important role in the public sphere **Henri Poincaré:**

Electrons to Special Relativity Bruce D Popp, 2020-08-04 Produced by an award winning translator of Henri Poincaré this book contains translations of several seminal articles by Poincaré and discusses the experimental and theoretical investigations of electrons that form their context In the 1950s a dispute ignited about the origin of the theory of special relativity and thrust considerable notoriety on a paper written by Henri Poincaré in 1905 Accordingly Part I presents the relevant translations of Poincaré's work showing that radiation carries momentum and the covariance of the equations of electrodynamics the continuity equation for charge and the spacetime interval Part II then discusses investigations by Thomson Becquerel and Kaufmann of electrons in diverse contexts contributions of Abraham Lorentz and Poincaré to a theory of electrons that includes Lorentz transformations and explains the dependence of mass on velocity and finally Poincaré's exploration of the relativity principle electron stability and gravitation while rejecting absolute motion ether and an electromagnetic origin of mass Part III contains the 1904 article by H A Lorentz presenting his transformations This book will be a fascinating read to graduate level students physicists and science historians who are interested in the development of electrodynamics and the classical relativistic theory of electrons at the beginning of the 20th century **Henri Poincaré**

, 1914 **Rediscovering Léon Brunschvicg's Critical Idealism** Pietro Terzi, 2022-01-13 Léon Brunschvicg's contribution to philosophical thought in fin de siècle France receives full explication in the first English language study on his work Arguing that Brunschvicg is crucial to understanding the philosophical schools which took root in 20th century France Pietro Terzi locates Brunschvicg alongside his contemporary Henri Bergson as well as the range of thinkers he taught and influenced including Lévinas Merleau Ponty de Beauvoir and Sartre Brunschvicg's deep engagement with debates concerning spiritualism and rationalism neo Kantian philosophy and the role of mathematics in philosophy made him the perfect supervisor for a whole host of nascent philosophical ideas which were forming in the work of his students Terzi outlines Brunschvicg's defence of neo Kantian judgement historical analysis and the inextricability of the natural and humanist sciences to any rigorous system of philosophy with wide ranging implications for contemporary scholarship **IUTAM Symposium on Exploiting Nonlinear Dynamics for Engineering Systems** Ivana Kovacic, Stefano Lenci, 2019-07-24 This is the proceedings of the IUTAM Symposium on Exploiting Nonlinear Dynamics for Engineering Systems that was held in Novi Sad Serbia from July 15th to 19th 2018 The appearance of nonlinear phenomena used to be perceived as dangerous with a

general tendency to avoid them or control them This perception has led to intensive research using various approaches and tailor made tools developed over decades However the Nonlinear Dynamics of today is experiencing a profound shift of paradigm since recent investigations rely on a different strategy which brings good effects of nonlinear phenomena to the forefront This strategy has a positive impact on different fields in science and engineering such as vibration isolation energy harvesting micro nano electro mechanical systems etc Therefore the ENOLIDES Symposium was devoted to demonstrate the benefits and to unlock the potential of exploiting nonlinear dynamical behaviour in these but also in other emerging fields of science and engineering This proceedings is useful for researchers in the fields of nonlinear dynamics of mechanical systems and structures and in Mechanical and Civil Engineering

The Foundations of Chaos Revisited: From Poincaré to Recent Advancements Christos Skiadas, 2016-04-29 With contributions from a number of pioneering researchers in the field this collection is aimed not only at researchers and scientists in nonlinear dynamics but also at a broader audience interested in understanding and exploring how modern chaos theory has developed since the days of Poincaré This book was motivated by and is an outcome of the CHAOS 2015 meeting held at the Henri Poincaré Institute in Paris which provided a perfect opportunity to gain inspiration and discuss new perspectives on the history development and modern aspects of chaos theory Henri Poincaré is remembered as a great mind in mathematics physics and astronomy His works well beyond their rigorous mathematical and analytical style are known for their deep insights into science and research in general and the philosophy of science in particular The Poincaré conjecture only proved in 2006 along with his work on the three body problem are considered to be the foundation of modern chaos theory

Philosophy of Science: The Key Thinkers James Robert Brown, 2021-07-15 From the 19th century the philosophy of science has been shaped by a group of influential figures Who were they Why do they matter This introduction brings to life the most influential thinkers in the philosophy of science uncovering how the field has developed over the last 200 years Taking up the subject from the time when some philosophers began to think of themselves not just as philosophers but as philosophers of science a team of leading contemporary philosophers explain criticize and honour the giants Now updated and revised throughout the second edition includes Easy to follow overviews of pivotal thinkers including John Stuart Mill Rudolf Carnap Thomas Kuhn Karl Popper and many more Coverage of central issues such as experience and necessity logical empiricism falsifiability paradigms the sociology of science realism and feminist critiques An afterword looking ahead to emerging research trends Study questions and further reading lists at the end of each chapter Philosophy of Science The Key Thinkers demonstrates how the ideas and arguments of these figures laid the foundations of our understanding of modern science

Logic, Epistemology, and Scientific Theories - From Peano to the Vienna Circle Paola Cantù, Georg Schiemer, 2024-01-03 This book provides a collection of chapters on the development of scientific philosophy and symbolic logic in the early twentieth century The turn of the last century was a key transitional period for the development of symbolic logic and scientific philosophy The Peano school the editorial board of the

Revue de Métaphysique et de Morale and the members of the Vienna Circle are generally mentioned as champions of this transformation of the role of logic in mathematics and in the sciences. The scholarship contained provides a rich historical and philosophical understanding of these groups and research areas. Specifically the contributions focus on a detailed investigation of the relation between structuralism and modern mathematics. In addition this book provides a closer understanding of the relation between symbolic logic and previous traditions such as syllogistics. This volume also informs the reader on the relation between logic, the history and didactics in the Peano School. This edition appeals to students and researchers working in the history of philosophy and of logic, philosophy of science as well as to researchers on the Vienna Circle and the Peano School.

Gustav Robert Kirchhoff's Treatise "On The Theory Of Light Rays" (1882): English Translation, Analysis And Commentary Klaus Hentschel, Ning Yan Zhu, 2016-08-25 Although the editors admit that they cannot present an unequivocal explanation for the strange resilience of Kirchhoff's flawed theory, their book is an admirable effort to meet this challenge. It is a concerted effort to resolve a persistent riddle in the history of physics and an example of how expert knowledge from different specialties may be focused on a target of common interest. *ISIS Journal*. The 1882 paper by the mathematical physicist Gustav Robert Kirchhoff on diffraction theory is still being discussed to this day but has never been translated into English. This volume contains the first English translation of the Kirchhoff treatise as well as background and commentary on it. Included are a biographical introduction to Kirchhoff's life, an analysis of the reception to Kirchhoff's paper through the ages, a discussion on why Kirchhoff's theory manages to produce accurate predictions in spite of being wrong, and views on the theory as well as its predecessor and subsequent developments. This anthology will make all English-speaking scientists, engineers, historians, and interested laymen aware of the great fecundity of Kirchhoff's thought and historical context.

The History of Mathematics: A Source-Based Approach, Volume 2 June Barrow-Green, Jeremy Gray, Robin Wilson, 2022-05-26 The History of Mathematics: A Source Based Approach is a comprehensive history of the development of mathematics. This is the second volume of a two volume set that takes the reader from the invention of the calculus to the beginning of the twentieth century. The initial discoverers of calculus are given thorough investigation and special attention is also paid to Newton's *Principia*. The eighteenth century is presented as primarily a period of the development of calculus, particularly in differential equations and applications of mathematics. Mathematics blossomed in the nineteenth century and the book explores progress in geometry, analysis, foundations, algebra, and applied mathematics, especially celestial mechanics. The approach throughout is markedly historiographic. How do we know what we know? How do we read the original documents? What are the institutions supporting mathematics? Who are the people of mathematics? The reader learns not only the history of mathematics but also how to think like a historian. The two volume set was designed as a textbook for the authors' acclaimed year-long course at the Open University. It is in addition to being an innovative and insightful textbook, an invaluable resource for students and scholars of the history of mathematics. The authors, each among

the most distinguished mathematical historians in the world have produced over fifty books and earned scholarly and expository prizes from the major mathematical societies of the English speaking world

The Foundations of Mathematics, Updated Edition Michael Bradley, 2019-11-01 Praise for the previous edition ample information for reports School Library Journal During the 16th and 17th centuries mathematicians developed a wealth of new ideas but had not carefully employed accurate definitions proofs or procedures to document and implement them However in the early 19th century mathematicians began to recognize the need to precisely define their terms to logically prove even obvious principles and to use rigorous methods of manipulation The Foundations of Mathematics Updated Edition presents the lives and accomplishments of 10 mathematicians who contributed to one or more of the four major initiatives that characterized the rapid growth of mathematics during the 19th century the introduction of rigor the investigation of the structure of mathematical systems the development of new branches of mathematics and the spread of mathematical activity throughout Europe This updated edition communicates the importance and impact of the work of the pioneers who redefined this area of study Each unit contains information on the person s research discoveries and contributions to the field and concludes with a list of print and Internet references specific to that individual

The Physicist and the Philosopher Jimena Canales, 2016-10-04 The explosive debate that transformed our views about time and scientific truth On April 6 1922 in Paris Albert Einstein and Henri Bergson publicly debated the nature of time Einstein considered Bergson s theory of time to be a soft psychological notion irreconcilable with the quantitative realities of physics Bergson who gained fame as a philosopher by arguing that time should not be understood exclusively through the lens of science criticized Einstein s theory of time for being a metaphysics grafted on to science one that ignored the intuitive aspects of time The Physicist and the Philosopher tells the remarkable story of how this explosive debate transformed our understanding of time and drove a rift between science and the humanities that persists today Jimena Canales introduces readers to the revolutionary ideas of Einstein and Bergson describes how they dramatically collided in Paris and traces how this clash of worldviews reverberated across the twentieth century She shows how it provoked responses from figures such as Bertrand Russell and Martin Heidegger and carried repercussions for American pragmatism logical positivism phenomenology and quantum mechanics Canales explains how the new technologies of the period such as wristwatches radio and film helped to shape people s conceptions of time and further polarized the public debate She also discusses how Bergson and Einstein toward the end of their lives each reflected on his rival s legacy Bergson during the Nazi occupation of Paris and Einstein in the context of the first hydrogen bomb explosion The Physicist and the Philosopher is a magisterial and revealing account that shows how scientific truth was placed on trial in a divided century marked by a new sense of time

Mastering the History of Pure and Applied Mathematics Toke Knudsen, Jessica Carter, 2024-06-04 The present collection of essays are published in honor of the distinguished historian of mathematics Professor Emeritus Jesper L tzen In a career that spans more than four decades Professor L tzen s

scholarly contributions have enhanced our understanding of the history development and organization of mathematics The essays cover a broad range of areas connected to Professor L tzen s work In addition to this noteworthy scholarship Professor L tzen has always been an exemplary colleague providing support to peers as well as new faculty and graduate students We dedicate this Festschrift to Professor L tzen as a scholarly role model mentor colleague and friend

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