1830-1930: A Century of Geometry:
Epistemology, History, and Mathematics
(Lecture Notes in Physics)

Boi, L.

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1830 1930 A Century Of Geometry Epistemology History And Mathematics

Luciano Boi

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1830-1930 Luciano Boi, Dominique Flament, Jean-Michel Salanskis, 1992 In the first half of the 19th century geometry changed radically and within acentury it helped to revolutionize both mathematics and physics It also put the epistemology and the philosophy of science on a new footing In this volume a sound overview of this development is given by leading mathematicians physicists philosophers and historians of science This interdisciplinary approach gives this collection a unique character It can be used by scientists and students but it also addresses a general readership Boi, Dominique Flament, Jean-Michel Salanskis, 2014-01-15 The Prehistory of Mathematical Structuralism Erich H. Reck, Georg Schiemer, 2020 This edited volume explores the previously underacknowledged pre history of mathematical structuralism showing that structuralism has deep roots in the history of modern mathematics. The contributors explore this history along two distinct but interconnected dimensions First they reconsider the methodological contributions of major figures in the history of mathematics Second they re examine a range of philosophical reflections from mathematically inclinded philosophers like Russell Carnap and Quine whose work led to profound conclusions about logical epistemological and metaphysical aspects of structuralism Duality in 19th and 20th Century Mathematical Thinking Ralf Krömer, Emmylou Haffner, 2024-07-01 This volume brings together scholars across various domains of the history and philosophy of mathematics investigating duality as a multi faceted phenomenon Encompassing both systematic analysis and historical examination the book endeavors to elucidate the status roles and dynamics of duality within the realms of 19th and 20th century mathematics Eschewing a priori notions the contributors embrace the diverse interpretations and manifestations of duality thus presenting a nuanced and comprehensive perspective on this intricate subject Spanning a broad spectrum of mathematical topics and historical periods the book uses detailed case studies to investigate the different forms in which duality appeared and still appears in mathematics to study their respective histories and to analyze interactions between the different forms of duality The chapters inquire into questions such as the contextual occurrences of duality in mathematics the influence of chosen forms of representation the impact of investigations of duality on mathematical practices and the historical interconnections among various instances of duality Together they aim to answer a core question Is there such a thing as duality in mathematics or are there just several things called by the same name and similar in some respect What emerges is that duality can be considered as a basic structure of mathematical thinking thereby opening new horizons for the research on the history and the philosophy of mathematics and the reflection on mathematics in general The volume will appeal not only to experts in the discipline but also to advanced students of mathematics history and philosophy intrigued by the complexities of this captivating subject matter Joyce, Chaos, and Complexity Thomas Jackson Rice, 1997 Thomas Rice compellingly argues that James Joyce's work resists postmodernist approaches of ambiguity Joyce never abandoned his conviction that reality exists regardless of the human ability to represent it Placing Joyce in his cultural

context Rice first traces the influence of Euclidean and non Euclidean geometries on Dubliners and A Portrait of the Artist as a Young Man He then demonstrates that when later innovations in science transformed entire worldviews Joyce recognized conventional literary modes of representation as offering only arbitrary constructions of this reality Joyce responded in Ulysses by experimenting with perspective embedding design and affirming the existence of reality Rice contends that Ulysses presages the multiple tensions of chaos theory likewise chaos theory can serve as a model for understanding Ulysses In Finnegans Wake Joyce consummates his vision and anticipates the theories of complexity science through a dynamic approximation of reality Beyond Geometry Peter Pesic, 2007-01-01 Eight essays trace seminal ideas about the foundations of geometry that led to the development of Einstein's general theory of relativity This is the only English language collection of these important papers some of which are extremely hard to find Contributors include Helmholtz Klein Clifford Poincar Weyl and the Problem of Space Julien Bernard, Carlos Lobo, 2019-10-09 This book investigates Hermann Weyl and Cartan s work on the problem of space from the early 1920s onwards It presents new material and opens the philosophical problem of space anew crossing the disciplines of mathematics history of science and philosophy With a Kantian starting point Weyl asks among all the infinitely many conceivable metrical spaces which one applies to the physical world In agreement with general relativity Weyl acknowledges that the metric can quantitatively vary with the physical situation Despite this freedom Weyl deduces with group theoretical technicalities that there is only one kind of legitimate metric This construction was then decisive for the development of gauge theories Nevertheless the question of the foundations of the metric of physical theories is only a piece of a wider epistemological problem Contributing authors mark out the double trajectory that goes through Weyl's texts from natural science to philosophy and conversely always through the mediation of mathematics Readers may trace the philosophical tradition to which Weyl refers and by which he is inspired Kant Husserl Fichte Leibniz Becker etc and explore the mathematical tradition Riemann Helmholtz Lie Klein that permitted Weyl to elaborate and solve his mathematical problem of space Furthermore this volume analyzes the role of the interlocutors with whom Weyl discussed the nature of physical space Einstein Cartan De Sitter Schr dinger Eddington This volume features the work of top specialists and will appeal to postgraduates and scholars in philosophy the history of science mathematics or physics What is Geometry? Giandomenico Sica, 2006 Philosophers and Einstein's Relativity Chiara Russo Krauss, Luigi Laino, 2023-09-30 This book offers an up to date insight into the early philosophical debate on Einsteinian relativity. The essays explore the reception and interpretation of Einstein's ideas by some of the most important philosophical schools of the time such as logical positivism Reichenbach neo Kantianism Cassirer Natorp critical realism Sellars and radical empiricism Mach The book is aimed at physicists and historians of science researching the epistemological implications of the theory of relativity as well as to scholars in philosophy interested in understanding how leading philosophical figures of the early twentieth century reacted to the relativistic revolution Hermann Graßmann Hans-Joachim Petsche, 2009-12-30 Hermann G nther Gra

mann was one of the most remarkable personalities in 19th century science A small town genius he developed a groundbreaking n dimensional algebra of space and contributed to a revolution in the understanding of mathematics His work fascinated great mathematicians such as W R Hamilton J W Gibbs and A N Whitehead This intellectual biography traces Gra mann s steps towards scientific brilliance by untangling a complicated web of influences the force of unsolved problems in mathematics Friedrich Schleiermacher s Dialectic German Romanticism and life in 19th century Prussia The book also introduces the reader to the details of Gra mann s mathematical work without neglecting his achievements in Sanskrit philology and physics And for the first time it makes many original sources accessible to the English language reader

Conflicting Values of Inquiry, 2015-01-08 Historical research in previous decades has done a great deal to explore the social and political context of early modern natural and moral inquiries Particularly since the publication of Steven Shapin and Simon Schaffer's Leviathan and the Air Pump 1985 several studies have attributed epistemological stances and debates to clashes of political and theological ideologies The present volume suggests that with an awareness of this context it is now worth turning back to questions of the epistemic content itself. The contributors to the present collection were invited to explore how certain non epistemic values had been turned into epistemic ones how they had an effect on epistemic content and eventually how they became ideologies of knowledge playing various roles in inquiry and application throughout early New Directions in the Philosophy of Mathematics Thomas Tymoczko, 1998-02 The traditional debate modern Europe among philosophers of mathematics is whether there is an external mathematical reality something out there to be discovered or whether mathematics is the product of the human mind This provocative book now available in a revised and expanded paperback edition goes beyond foundationalist questions to offer what has been called a postmodern assessment of the philosophy of mathematics one that addresses issues of theoretical importance in terms of mathematical experience By bringing together essays of leading philosophers mathematicians logicians and computer scientists Thomas Tymoczko reveals an evolving effort to account for the nature of mathematics in relation to other human activities These accounts include such topics as the history of mathematics as a field of study predictions about how computers will influence the future organization of mathematics and what processes a proof undergoes before it reaches publishable form This expanded edition now contains essays by Penelope Maddy Michael D Resnik and William P Thurston that address the nature of mathematical proofs The editor has provided a new afterword and a supplemental bibliography of recent work

How Economics Became a Mathematical Science E. Roy Weintraub, 2002-05-28 Discusses the history of 20th century economics and how it has become dominated by mathematical approaches On the Teaching of Linear Algebra J.-L. Dorier, 2005-12-27 This book presents the state of the art research on the teaching and learning of linear algebra in the first year of university in an international perspective It provides university teachers in charge of linear algebra courses with a wide range of information from works including theoretical and experimental issues MUS - Mathematimus - Hyperelliptical Geometry Stenio

Musich, 2024-03-25 M U S Mathematical Uniform Space is a new number of pi representing the reality of the Universe in which we live With this number we created a new geometry Hyperelliptical Geometry which will provide the unification of physics thus uniting the Theory of Relativity and Quantum Theory A new geometry for a new Mathematics and a new Physics Vita Mathematica Ronald Calinger, 1996 Enables teachers to learn the history of mathematics ISBN 978 65 00 98107 0 and then incorporate it in undergraduate teaching Albert Einstein—Italian Memories Sandra Linguerri, Raffaella Simili, 2025-01-30 This book is dedicated to Einstein's personal and scientific relationships with Italy which began as early as adolescence and continued over various stages of his life It collects together a wealth of historical documentation including the letters in which Einstein recalls having lived as a young man with his family in Lombardy Pavia and Milan the texts of three lectures delivered by Einstein in Italian in October 1921 in Bologna at the invitation of the mathematician Federigo Enriques the only lectures he held in Italy the correspondence with Enriques and other Italian intellectuals together with the letter that Einstein sent in 1931 to the Minister of Justice Alfredo Rocco to try to avoid the infamy of the oath of allegiance to the fascist regime imposed by Mussolini on university professors The book closes with some writings on relativity from 1907 to 1914 Einstein Abraham Corbino Castelnuovo and the 1920s debate between pro relativists and anti relativists publishedin the international journal Scientia founded in 1907 by Enriques Space, Time and the Limits of Human Understanding Shyam Wuppuluri, Giancarlo Ghirardi, 2016-12-01 In this compendium of essays some of the world's leading thinkers discuss their conceptions of space and time as viewed through the lens of their own discipline With an epilogue on the limits of human understanding this volume hosts contributions from six or more diverse fields It presumes only rudimentary background knowledge on the part of the reader Time and again through the prism of intellect humans have tried to diffract reality into various distinct yet seamless atomic yet holistic independent yet interrelated disciplines and have attempted to study it contextually Philosophers debate the paradoxes or engage in meditations dialogues and reflections on the content and nature of space and time Physicists too have been trying to mold space and time to fit their notions concerning micro and macro worlds Mathematicians focus on the abstract aspects of space time and measurement While cognitive scientists ponder over the perceptual and experiential facets of our consciousness of space and time computer scientists theoretically and practically try to optimize the space time complexities in storing and retrieving data information The list is never ending Linguists logicians artists evolutionary biologists geographers etc all are trying to weave a web of understanding around the same duo However our endeavour into a world of such endless imagination is restrained by intellectual dilemmas such as Can humans comprehend everything Are there any limits Can finite thought fathom infinity We have sought far and wide among the best minds to furnish articles that provide an overview of the above topics. We hope that through this journey a symphony of patterns and tapestry of intuitions will emerge providing the reader with insights into the questions What is Space What is Time Chapter 15 of this book is available open access under a CC BY 4 0 license The Ouantum Vacuum

Luciano Boi, 2011-10-28 A vacuum classically understood contains nothing The quantum vacuum on the other hand is a seething cauldron of nothingness particle pairs going in and out of existence continuously and rapidly while exerting influence over an enormous range of scales Acclaimed mathematical physicist and natural philosopher Luciano Boi expounds the quantum vacuum exploring the meaning of nothingness and its relationship with physical reality Boi first provides a deep analysis of the interaction between geometry and physics at the quantum level He next describes the relationship between the microscopic and macroscopic structures of the world In so doing Boi sheds light on the very nature of the universe stressing in an original and profound way the relationship between quantum geometry and the internal symmetries underlying the behavior of matter and the interactions of forces Beyond the physics and mathematics of the quantum vacuum Boi offers a profoundly philosophical interpretation of the concept Plato and Aristotle did not believe a vacuum was possible How could nothing be something they asked Boi traces the evolution of the quantum vacuum from an abstract concept in ancient Greece to its fundamental role in quantum field theory and string theory in modern times The quantum vacuum is a complex entity one essential to understanding some of the most intriguing issues in twentieth century physics including cosmic singularity dark matter and energy and the existence of the Higgs boson particle Boi explains with simple clarity the relevant theories and fundamental concepts of the quantum vacuum Theoretical mathematical and particle physicists as well as researchers and students of the history and philosophy of physics will find The Quantum Vacuum to be a stimulating and engaging primer on the topic **Felix Klein** David E. Rowe, 2025-05-29 This book presents a historical account of Felix Klein's Comparative Reflections on Recent Research in Geometry 1872 better known as his Erlangen Program Originally conceived and written when Klein was collaborating with Sophus Lie this bold essay initially made little impression on contemporary researchers Decades later however it eventually became a famous classic Eminent mathematicians hailed Klein's main message the role of invariants of transformation groups in geometry as presaging major developments in mathematics and physics The first part of this book focuses on the prehistory surrounding Klein's Erlangen Program stressing the motivations that led Klein to write it The core of the book Part II then presents a new translation of Klein s original text followed by detailed textual analysis aimed at guiding the reader through its rather terse and opaque prose Part III deals with its complicated reception history treated in four periods spanning the years from 1872 to 1930 This culminated during Klein's lifetime with his efforts to promote the Erlangen Program as a framework for interpreting Einstein's theory of relativity After his death in 1925 the viability of this framework became a contentious issue among leading differential geometers Part IV looks back on the transformations in mathematics that led to a modernized interpretation of Klein s message The book also explores in depth how the growing fame of the Erlangen Program undermined Klein's friendship with Sophus Lie leading to a dramatic public break between them in 1893 Beyond the Erlangen Program itself this book deals with many of Felix Klein's other works As an introduction to a largely forgotten world of ideas this study will appeal not only

to experts but also to graduate students and all those with a serious interest in the history of modern mathematics

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