

Olav Arnfinn Laudal · Ragni Piene  
(Editors)

*Niels Henrik Abel*

# The Legacy of Niels Henrik Abel

The Abel Bicentennial,  
Oslo, June 3-8, 2002



Springer

# Legacy Of Niels Henrik Abel

**Luis T. Magalhães**



## **Legacy Of Niels Henrik Abel:**

**The Legacy of Niels Henrik Abel** Olav Arnfinn Laudal,Ragni Piene,2004 Abel s influence on modern mathematics is substantial This is seen in many ways but maybe clearest in the number of mathematical terms containing the adjective Abelian In algebra algebraic and complex geometry analysis the theory of differential and integral equations and function theory there are terms like Abelian groups Abelian varieties Abelian integrals Abelian functions A number of theorems are attributed to Abel The famous Addition Theorem of Abel proved in his Paris Mmoire stands out even today as a mathematical landmark This book written by some of the foremost specialists in their fields contains important survey papers on the history of Abel and his work in several fields of mathematics The purpose of the book is to combine a historical approach to Abel with an overview of his scientific legacy as perceived at the beginning of the 21st century *The Legacy of Niels Henrik Abel* Olav Arnfinn Laudal,Ragni Piene,2011-06-28 This book contains a series of research papers on subjects related to the work of Niels Henrik Abel written by some of the foremost specialists in their fields Some of the authors have been specifically invited to present papers discussing the influence of Abel in a mathematical historical context Others have submitted papers presented at the Abel Bicentennial Conference Oslo June 3 8 2002 The idea behind the book has been to produce a text covering a substantial part of the legacy of Abel as perceived at the beginning of the 21st century It is accompanied by a CD ROM with a large amount of information related to Niels Henrik Abel such as on the Abel Centennial in 1902 and the Abel Bicentennial Conference in 2002 the launching of the Abel Prize Abel monuments and stamps banknotes coins etc issued in honour of Niels Henrik Abel **The Legacy of Niels Henrik Abel** Olav Arnfinn Laudal,Ragni Piene,2014-01-15 **The Legacy of Niels Henrik Abel** ,2004 **Duel at Dawn** Amir Alexander,2011-10-15 In the fog of a Paris dawn in 1832 variste Galois the 20 year old founder of modern algebra was shot and killed in a duel That gunshot suggests Amir Alexander marked the end of one era in mathematics and the beginning of another Arguing that not even the purest mathematics can be separated from its cultural background Alexander shows how popular stories about mathematicians are really morality tales about their craft as it relates to the world In the eighteenth century Alexander says mathematicians were idealized as child like eternally curious and uniquely suited to reveal the hidden harmonies of the world But in the nineteenth century brilliant mathematicians like Galois became Romantic heroes like poets artists and musicians The ideal mathematician was now an alienated loner driven to despondency by an uncomprehending world A field that had been focused on the natural world now sought to create its own reality Higher mathematics became a world unto itself pure and governed solely by the laws of reason In this strikingly original book that takes us from Paris to St Petersburg Norway to Transylvania Alexander introduces us to national heroes and outcasts innocents swindlers and martyrs all uncommonly gifted creators of modern mathematics **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.

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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 is a great source of potential inspiration.

Jean Pierre Bourguignon, Nicolaas Kuiper, Honorary Professor at the Institut des Hautes Études Scientifiques: **The Scientific Legacy of Poincaré**

Éric Charpentier, Étienne Ghys, Annick Lesne, 2010: Henri Poincaré (1854–1912) was one of the greatest scientists of his time.

perhaps the last one to have mastered and expanded almost all areas in mathematics and theoretical physics He created new mathematical branches such as algebraic topology dynamical systems and automorphic functions and he opened the way to complex analysis with several variables and to the modern approach to asymptotic expansions He revolutionized celestial mechanics discovering deterministic chaos In physics he is one of the fathers of special relativity and his work in the philosophy of sciences is illuminating For this book about twenty world experts were asked to present one part of Poincare s extraordinary work Each chapter treats one theme presenting Poincare s approach and achievements along with examples of recent applications and some current prospects Their contributions emphasize the power and modernity of the work of Poincare an inexhaustible source of inspiration for researchers as illustrated by the Fields Medal awarded in 2006 to Grigori perelman for his proof of the Poincare conjecture stated a century before This book can be read by anyone with a master s even a bachelor s degree in mathematics or physics or more generally by anyone who likes mathematical and physical ideas Rather than presenting detailed proofs the main ideas are explained and a bibliography is provided for those who wish to understand the technical details **The Mathematical Legacy of Leon Ehrenpreis** Irene Sabadini,Daniele C.

Struppa,2012-04-23 Leon Ehrenpreis has been one of the leading mathematicians in the twentieth century His contributions to the theory of partial differential equations were part of the golden era of PDEs and led him to what is maybe his most important contribution the Fundamental Principle which he announced in 1960 and fully demonstrated in 1970 His most recent work on the other hand focused on a novel and far reaching understanding of the Radon transform and offered new insights in integral geometry Leon Ehrenpreis died in 2010 and this volume collects writings in his honor by a cadre of distinguished mathematicians many of which were his collaborators *Inspired By S S Chern: A Memorial Volume In Honor Of A Great Mathematician* Phillip A Griffiths,2006-11-27 Shiing Shen Chern 1911 2004 was one of the leading differential geometers of the twentieth century In 1946 he founded the Mathematical Institute of Academia Sinica in Shanghai which was later moved to Nanking In 1981 he founded the Mathematical Sciences Research Institute MSRI at Berkeley and acted as the director until 1984 In 1985 he founded the Nankai Institute of Mathematics in Tianjin He was awarded the National Medal of Science in 1975 the Wolf Prize in mathematics in 1984 and the Shaw Prize in mathematical sciences in 2004 Chern s works span all the classic fields of differential geometry the Chern Simons theory the Chern Weil theory linking curvature invariants to characteristic classes Chern classes and other areas such as projective differential geometry and webs that are mathematically rich but currently have a lower profile He also published work in integral geometry value distribution theory of holomorphic functions and minimal submanifolds Inspired by Chern and his work former colleagues students and friends themselves highly regarded mathematicians in their own right come together to honor and celebrate Chern s huge contributions The volume organized by Phillip Griffiths of the Institute for Advanced Study Princeton contains contributions by Michael Atiyah University of Edinburgh C M Bai Nankai Robert Bryant Duke University Kung Ching Chang Peking

University Jeff Cheeger New York University Simon K Donaldson Imperial College H l ne Esnault Universit t Duisburg Essen Mo Lin Ge Nankai Mark Green University of California at Los Angeles Phillip Griffiths Institute for Advanced Study F Reese Harvey Rice University Alain H naut Universit Bordeaux 1 Niky Kamran McGill University Bruce Kleiner Yale H Blaine Lawson Jr Suny at Stony Brook Yiming Long Nankai Xiaonan Ma UMR 7640 du CNRS Luc Pirio IRMAR France Graeme Segal Oxford Gang Tian MIT Jean Marie Trepreau Institut de Math matiques de Jussieu Jeff Viaclovsky MIT Wei Wang Nankai Wentsun Wu Chinese Academy of Sciences C N Yang Tsinghua Tan Zhang Murray State University Weiping Zhang Nankai and others

**New Perspectives on Mathematical Practices** Bart van Kerkhove, 2009 This volume focuses on the importance of historical enquiry for the appreciation of philosophical problems concerning mathematics It contains a well balanced mixture of contributions by internationally established experts such as Jeremy Gray and Jens Hoyrup upcoming scholars such as Erich Reck and Dirk Schlimm and young promising researchers at the beginning of their careers The book is situated within a relatively new and broadly naturalistic tradition in the philosophy of mathematics In this alternative philosophical current which has been dramatically growing in importance in the last few decades unlike in the traditional schools proper attention is paid to scientific practices as informing for philosophical accounts

*Advances on Superelliptic Curves and Their Applications* L. Beshaj, T. Shaska, E. Zhupa, 2015-07-16 This book had its origins in the NATO Advanced Study Institute ASI held in Ohrid Macedonia in 2014 The focus of this ASI was the arithmetic of superelliptic curves and their application in different scientific areas including whether all the applications of hyperelliptic curves such as cryptography mathematical physics quantum computation and diophantine geometry can be carried over to the superelliptic curves Additional papers have been added which provide some background for readers who were not at the conference with the intention of making the book logically more complete and easier to read but familiarity with the basic facts of algebraic geometry commutative algebra and number theory are assumed The book is divided into three sections The first part deals with superelliptic curves with regard to complex numbers the automorphisms group and the corresponding Hurwitz loci The second part of the book focuses on the arithmetic of the subject while the third addresses some of the applications of superelliptic curves

**Math Makers: The Lives and Works of 50 Famous Mathematicians** Alfred S. Posamentier, Christian Spreitzer, 2024-11-20 Discover the captivating stories behind the greatest minds in mathematics Mathematics today is the fruit of centuries of brilliant insights by men and women whose personalities and life experiences were often as extraordinary as their mathematical achievements This entertaining history of mathematics chronicles those achievements through 50 short biographies that bring these great thinkers to life while making their contributions understandable to the masses Among the fascinating characters profiled are Isaac Newton 1642 1727 the founder of classical physics and infinitesimal calculus he frequently quarrelled with fellow scientists and was obsessed with alchemy and arcane Bible interpretation Sophie Germain 1776 1831 who studied secretly at the cole Polytechnique in Paris using the name of a

previously enrolled male student she is remembered for her work on Fermat's Last Theorem and on elasticity theory and Srinivasa Ramanujan 1887-1920 who came from humble origins in India and had almost no formal training yet made substantial contributions to mathematical analysis number theory infinite series and continued fractions The unusual behavior and life circumstances of these and many other intriguing personalities make for fascinating reading and a highly enjoyable introduction to mathematics

**An Invitation to Web Geometry** Jorge Vitório Pereira, Luc Pirio, 2015-02-23 This book takes an in depth look at abelian relations of codimension one webs in the complex analytic setting In its classical form web geometry consists in the study of webs up to local diffeomorphisms A significant part of the theory revolves around the concept of abelian relation a particular kind of functional relation among the first integrals of the foliations of a web Two main focuses of the book include how many abelian relations can a web carry and which webs are carrying the maximal possible number of abelian relations The book offers complete proofs of both Chern's bound and Trpreau's algebraization theorem including all the necessary prerequisites that go beyond elementary complex analysis or basic algebraic geometry Most of the examples known up to date of non algebraizable planar webs of maximal rank are discussed in detail A historical account of the algebraization problem for maximal rank webs of codimension one is also presented

*Abbreviated Lives Tragic Tales of Artists Scientists and Writers* Debananda Singh Ningthoujam, 2022-06-03 *Abbreviated Lives* profiles the life stories of artists scientists writers whose creative odysseys have been cut short by circumstances penury lack of recognition mental breakdown dictatorship and war etc It also portrays the Matilda effect how some women's contributions have been stolen by male colleagues supervisors or husbands However tragic the conditions in which they might have worked all the characters in this book took passionate creative journeys till the final exit From them we may reaffirm that the journey matters more than the destination one can rise to great heights in life given grit commitment and hard work These tragic stories also teach us that the efflorescence of artistic and scientific creativity needs democracy and freedom of thought it may be cruelly stifled if not completely destroyed by unscrupulous dictators and authoritarian rulers These tales not only can inspire the readers to carry forward their own journeys moreover they may ignite us to promote institutional cultural and social factors that would help nurture the full blossoming of creative lives so that the society may fully harvest their artistic literary and scientific contributions Sincere creative journeys the lonely expeditions of pioneers would never go in vain someday kindred spirits would retrace the paths blazed by the forerunners

**Complex Analysis and Dynamics in One Variable with Applications** Luis T. Magalhães, 2025-05-26 This textbook has been designed to support the initial study of Complex Analysis progressing to Complex Dynamics It focuses on the fundamental aspects of one variable complex functions covering the geometric theory and dynamics of iterations of rational mappings Following the standard material the book delves into an extensive range of advanced topics encompassing the requirements for a one year graduate level course or a preliminary exam In this work the reader will discover three distinctive characteristics it simplifies and unifies ideas and

concepts that might appear disparate or complicated in real analysis it contributes to the development of other areas in mathematics and it showcases relevance for applications in Science and Engineering with many exercises Historical notes throughout the text help to contextualize the theory With its flexible structure this textbook provides a solid foundation for a first course in Complex Analysis and for a second more advanced course establishing a robust basis for subsequent studies

**A Prodigy of Universal Genius: Robert Leslie Ellis, 1817-1859** Lukas M. Verburgt, 2022-04-12 This open access book brings together for the first time all aspects of the tragic life and fascinating work of the polymath Robert Leslie Ellis 1817 1859 placing him at the heart of early Victorian intellectual culture Written by a diverse team of experts the chapters in the book's first part contain in depth examinations of among other things Ellis's family education Bacon scholarship and mathematical contributions The second part consists of annotated transcriptions of a selection of Ellis's diaries and correspondence Taken together *A Prodigy of Universal Genius: Robert Leslie Ellis 1817 1859* is a rich resource for historians of science historians of mathematics and Victorian scholars alike Robert Leslie Ellis was one of the most intriguing and wide ranging intellectual figures of early Victorian Britain his contributions ranging from advanced mathematical analysis to profound commentaries on philosophy and classics and a decisive role in the orientation of mid nineteenth century scholarship This very welcome collection offers both new and authoritative commentaries on the work setting it in the context of the mathematical philosophical and cultural milieu of the period together with fascinating passages from the wealth of unpublished papers Ellis composed during his brief and brilliant career Simon Schaffer Department of History and Philosophy of Science University of Cambridge

**From Riemann to Differential Geometry and Relativity** Lizhen Ji, Athanase Papadopoulos, Sumio Yamada, 2017-10-03 This book explores the work of Bernhard Riemann and its impact on mathematics philosophy and physics It features contributions from a range of fields historical expositions and selected research articles that were motivated by Riemann's ideas and demonstrate their timelessness The editors are convinced of the tremendous value of going into Riemann's work in depth investigating his original ideas integrating them into a broader perspective and establishing ties with modern science and philosophy Accordingly the contributors to this volume are mathematicians physicists philosophers and historians of science The book offers a unique resource for students and researchers in the fields of mathematics physics and philosophy historians of science and more generally to a wide range of readers interested in the history of ideas

**The Real and the Complex: A History of Analysis in the 19th Century** Jeremy Gray, 2015-10-14 This book contains a history of real and complex analysis in the nineteenth century from the work of Lagrange and Fourier to the origins of set theory and the modern foundations of analysis It studies the works of many contributors including Gauss Cauchy Riemann and Weierstrass This book is unique owing to the treatment of real and complex analysis as overlapping inter related subjects in keeping with how they were seen at the time It is suitable as a course in the history of mathematics for students who have studied an introductory course in analysis and will enrich any



course in undergraduate real or complex analysis      *Fractional Calculus And Waves In Linear Viscoelasticity: An Introduction To Mathematical Models (Second Edition)* Francesco Mainardi, 2022-08-16 Fractional Calculus and Waves in Linear Viscoelasticity Second Edition is a self contained treatment of the mathematical theory of linear uni axial viscoelasticity constitutive equation and waves with particular regard to models based on fractional calculus It serves as a general introduction to the above mentioned areas of mathematical modeling The explanations in the book are detailed enough to capture the interest of the curious reader and complete enough to provide the necessary background material needed to delve further into the subject and explore the research literature In particular the relevant role played by some special functions is pointed out along with their visualization through plots Graphics are extensively used in the book and a large general bibliography is included at the end This new edition keeps the structure of the first edition but each chapter has been revised and expanded and new additions include a novel appendix on complete monotonic and Bernstein functions that are known to play a fundamental role in linear viscoelasticity This book is suitable for engineers graduate students and researchers interested in fractional calculus and continuum mechanics      *The Jewish Mathematical Diaspora from Fascist Italy* Erika Luciano, 2025-08-04 Delving into previously undisclosed archival sources this monograph offers a meticulously researched portrayal of Italian Jewish mathematicians amidst the turmoil sparked by the 1938 Italian Racial Laws Forced migration due to fascist anti Semitism saw the exodus of numerous Jewish intellectuals Highlighting the experiences of select academic mathematicians such as Guido Fubini Gino Fano Beniamino Segre Alessandro Terracini and others who fled Italy this work casts a light on a diaspora that presents unique aspects thanks to pre existing networks of international scientific solidarity Despite challenges stemming from language society and institutions their narratives reveal the profound human dimensions of adversity choice and camaraderie Suitable for scholars and students of 20th century history as well as a wider audience intrigued by Italy s complex past these pages offer invaluable insights into a dark chapter of the country s history

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