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Editors

Modular Forms and Fermat's Last Theorem

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Lloyd James Peter Kilford

Modular Forms And Fermats Last Theorem:

   Modular Forms and Fermat's Last Theorem Gary Cornell,Joseph H. Silverman,Glenn Stevens,1997 A collection of expanded versions of lectures given at an instructional conference on number theory and arithmetic geometry held at Boston University The purpose of the conference and indeed this book is to introduce and explain the many ideas and techniques used by Wiles in his proof and to explain how his result can be combined with Ribet s theorem and ideas of Frey and Serre to show at long last that Fermat s Last Theorem is true The book begins with an overview of the complete proof theory of elliptic curves modular functions modular curves Galois cohomology and finite group schemes In recognition of the historical significance of Fermat s Last Theorem the volume concludes by reflecting on the history of the problem while placing Wiles theorem into a more general Diophantine context suggesting future applications   Modular Forms and Fermat's Last Theorem Gary Cornell,Joseph H. Silverman,Glenn Stevens,2013-12-01 This volume contains expanded versions of lectures given at an instructional conference on number theory and arithmetic geometry held August 9 through 18 1995 at Boston University Contributor s includeThe purpose of the conference and of this book is to introduce and explain the many ideas and techniques used by Wiles in his proof that every semi stable elliptic curve over Q is modular and to explain how Wiles result can be combined with Ribet s theorem and ideas of Frey and Serre to show at long last that Fermat s Last Theorem is true The book begins with an overview of the complete proof followed by several introductory chapters surveying the basic theory of elliptic curves modular functions modular curves Galois cohomology and finite group schemes Representation theory which lies at the core of Wiles proof is dealt with in a chapter on automorphic representations and the Langlands Tunnell theorem and this is followed by in depth discussions of Serre s conjectures Galois deformations universal deformation rings Hecke algebras complete intersections and more as the reader is led step by step through Wiles proof In recognition of the historical significance of Fermat s Last Theorem the volume concludes by looking both forward and backward in time reflecting on the history of the problem while placing Wiles theorem into a more general Diophantine context suggesting future applications Students and professional mathematicians alike will find this volume to be an indispensable resource for mastering the epoch making proof of Fermat s Last Theorem   *Elliptic Curves, Modular Forms, & Fermat's Last Theorem* John Coates,Shing-Tung Yau,1995   **Elliptic Curves, Modular Forms & Fermat's Last Theorem** John Coates,Shing-Tung Yau,1997 These proceedings are based on a conference at the Chinese University of Hong Kong held in response to Andrew Wile s conjecture that every elliptic curve over Q is modular The survey article describing Wile s work is included as the first article in the present edition   *Seminar on Fermat's Last Theorem* Vijaya Kumar Murty,1995 The most significant recent development in number theory is the work of Andrew Wiles on modular elliptic curves Besides implying Fermat s Last Theorem his work establishes a new reciprocity law Reciprocity laws lie at the heart of number theory Wiles work draws on many of the tools of modern number theory and the purpose of this volume is to

introduce readers to some of this background material Based on a seminar held during 1993 1994 at the Fields Institute for Research in Mathematical Sciences this book contains articles on elliptic curves modular forms and modular curves Serre s conjectures Ribet s theorem deformations of Galois representations Euler systems and annihilators of Selmer groups All of the authors are well known in their field and have made significant contributions to the general area of elliptic curves Galois representations and modular forms Features Brings together a unique collection of number theoretic tools Makes accessible the tools needed to understand one of the biggest breakthroughs in mathematics Provides numerous references for further study **Fermat's Last Theorem** Takeshi Saitō,2013-11-01 This book together with the companion volume Fermat s Last Theorem The Proof presents in full detail the proof of Fermat s Last Theorem given by Wiles and Taylor With these two books the reader will be able to see the whole picture of the proof to appreciate one of the deepest achievements in the history of mathematics Crucial arguments including the so called 3 5 trick R T theorem etc are explained in depth The proof relies on basic background materials in number theory and arithmetic geometry such as elliptic curves modular forms Galois representations deformation rings modular curves over the integer rings Galois cohomology etc The first four topics are crucial for the proof of Fermat s Last Theorem they are also very important as tools in studying various other problems in modern algebraic number theory The remaining topics will be treated in the second book to be published in the same series in 2014 In order to facilitate understanding the intricate proof an outline of the whole argument is described in the first preliminary chapter and more details are summarised in later chapters *Elliptic Curves, Modular Forms, and Their L-functions* Álvaro Lozano-Robledo,2011 Many problems in number theory have simple statements but their solutions require a deep understanding of algebra algebraic geometry complex analysis group representations or a combination of all four The original simply stated problem can be obscured in the depth of the theory developed to understand it This book is an introduction to some of these problems and an overview of the theories used nowadays to attack them presented so that the number theory is always at the forefront of the discussion Lozano Robledo gives an introductory survey of elliptic curves modular forms and L functions His main goal is to provide the reader with the big picture of the surprising connections among these three families of mathematical objects and their meaning for number theory As a case in point Lozano Robledo explains the modularity theorem and its famous consequence Fermat s Last Theorem He also discusses the Birch and Swinnerton Dyer Conjecture and other modern conjectures The book begins with some motivating problems and includes numerous concrete examples throughout the text often involving actual numbers such as 3 4 5 $\frac{3344161}{747348}$ and $\frac{2244035177043369699245575130906674863160948472041}{8912332268928859588025535178967163570016480830}$ The theories of elliptic curves modular forms and L functions are too vast to be covered in a single volume and their proofs are outside the scope of the undergraduate curriculum However the primary objects of study the statements of the main theorems and their corollaries are within the grasp of advanced undergraduates This book concentrates on motivating the

definitions explaining the statements of the theorems and conjectures making connections and providing lots of examples rather than dwelling on the hard proofs The book succeeds if after reading the text students feel compelled to study elliptic curves and modular forms in all their glory   **Fermat's Last Theorem (2-Volume Set)** Takeshi Saito,2014-12-31 This 2 volume set Fermat s Last Theorem Basic Tools and Fermat s Last Theorem The Proof presents in full detail the proof of Fermat s Last Theorem given by Wiles and Taylor With these two books the reader will be able to see the whole picture of the proof to appreciate one of the deepest achievements in the history of mathematics Crucial arguments including the so called 3 5 trick R T theorem etc are explained in depth The proof relies on basic background materials in number theory and arithmetic geometry such as elliptic curves modular forms Galois representations deformation rings modular curves over the integer rings Galois cohomology etc The first four topics are crucial for the proof of Fermat s Last Theorem they are also very important as tools in studying various other problems in modern algebraic number theory In order to facilitate understanding the intricate proof an outline of the whole argument is described in the first preliminary chapter of the first volume

   Fermat's Last Theorem for Amateurs Paulo Ribenboim,2000-03-10 In 1995 Andrew Wiles completed a proof of Fermat s Last Theorem Although this was certainly a great mathematical feat one shouldn t dismiss earlier attempts made by mathematicians and clever amateurs to solve the problem In this book aimed at amateurs curious about the history of the subject the author restricts his attention exclusively to elementary methods that have produced rich results   **Invitation to the Mathematics of Fermat-Wiles** Yves Hellegouarch,2001-09-24 Assuming only modest knowledge of undergraduate level math Invitation to the Mathematics of Fermat Wiles presents diverse concepts required to comprehend Wiles extraordinary proof Furthermore it places these concepts in their historical context This book can be used in introduction to mathematics theories courses and in special topics courses on Fermat s last theorem It contains themes suitable for development by students as an introduction to personal research as well as numerous exercises and problems However the book will also appeal to the inquiring and mathematically informed reader intrigued by the unraveling of this fascinating puzzle Rigorously presents the concepts required to understand Wiles proof assuming only modest undergraduate level math Sets the math in its historical context Contains several themes that could be further developed by student research and numerous exercises and problems Written by Yves Hellegouarch who himself made an important contribution to the proof of Fermat s last theorem   *Notes on Fermat's Last Theorem* A. J. Van Der Poorten,1996-02-16 This book offers the first serious treatment of Fermat s Last Theorem since Wiles s proof It is based on a series of lectures given by the author to celebrate Wiles s achievement with each chapter explaining a separate area of number theory as it pertains to Fermat s Last Theorem Together they provide a concise history of the theorem as well as a brief discussion of Wiles s proof and its implications Requiring little more than one year of university mathematics and some interest in formulas this overview provides many useful tips and cites numerous references for those who desire more mathematical detail   **The Fermat Diary** Charles J.

Mozzochi,2000 This book concentrates on the final chapter of the story of perhaps the most famous mathematics problem of our time Fermat s Last Theorem The full story begins in 1637 with Pierre de Fermat s enigmatic marginal note in his copy of Diophantus s Arithmetica It ends with the spectacular solution by Andrew Wiles some 350 years later The Fermat Diary provides a record in pictures and words of the dramatic time from June 1993 to August 1995 including the period when Wiles completed the last stages of the proof and concluding with the mathematical world s celebration of Wiles result at Boston University This diary takes us through the process of discovery as reported by those who worked on the great puzzle Gerhard Frey who conjectured that Shimura Taniyama implies Fermat Ken Ribet who followed a difficult and speculative plan of attack suggested by Jean Pierre Serre and established the statement by Frey and Andrew Wiles who announced a proof of enough of the Shimura Taniyama conjecture to settle Fermat s Last Theorem only to announce months later that there was a gap in the proof Finally we are brought to the historic event on September 19 1994 when Wiles with the collaboration of Richard Taylor dramatically closed the gap The book follows the much in demand Wiles through his travels and lectures finishing with the Instructional Conference on Number Theory and Arithmetic Geometry at Boston University There are many important names in the recent history of Fermat s Last Theorem This book puts faces and personalities to those names Mozzochi also uncovers the details of certain key pieces of the story For instance we learn in Frey s own words the story of his conjecture about his informal discussion and later lecture at Oberwolfach and his letter containing the actual statement We learn from Faltings about his crucial role in the weeks before Wiles made his final announcement An appendix contains the Introduction of Wiles Annals paper in which he describes the evolution of his solution and gives a broad overview of his methods Shimura explains his position concerning the evolution of the Shimura Taniyama conjecture Mozzochi also conveys the atmosphere of the mathematical community and the Princeton Mathematics Department in particular during this important period in mathematics This eyewitness account and wonderful collection of photographs capture the marvel and unfolding drama of this great mathematical and human story   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 ofTechnology 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 ofproof 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

Number Theory H. Kisilevsky,Eyal Zvi Goren,Canadian Number Theory Association. Conference,2004 Collects articles from the meeting of the Canadian Number Theory Association held at the Centre de Recherches Mathematiques CRM at the University of Montreal This book covers topics such as algebraic number theory analytic number theory arithmetic algebraic geometry computational number theory and Diophantine analysis and approximation *Challenges for the 21st Century* Louis H. Y. Chen,2001-05-08 The International Conference on Fundamental Sciences Mathematics and Theoretical Physics provided a forum for reviewing some of the significant developments in mathematics and theoretical physics in the 20th century for the leading theorists in these fields to expound and discuss their views on new ideas and trends in the basic sciences as the new millennium approached for increasing public awareness of the importance of basic research in mathematics and theoretical physics and for promoting a high level of interest in mathematics and theoretical physics among

school students and teachers This was a major conference with invited lectures by some of the leading experts in various fields of mathematics and theoretical physics   **Exploring Numbers Beyond Primes** N.B. Singh, Exploring Numbers Beyond Primes is a comprehensive and accessible introduction to the fascinating world of number theory designed specifically for absolute beginners This book takes readers on a captivating journey through the mysteries of prime numbers and Diophantine equations offering clear explanations and engaging examples along the way From the historical origins of number theory to modern approaches and future directions each chapter provides a step by step exploration of key concepts supported by vivid descriptions and relatable analogies Whether you re a curious novice or an aspiring mathematician Exploring Numbers Beyond Primes invites you to discover the beauty and wonder of numbers inspiring a lifelong passion for mathematical inquiry   *Modular Forms* Lloyd James Peter Kilford,2008 This book presents a graduate student level introduction to the classical theory of modular forms and computations involving modular forms including modular functions and the theory of Hecke operators It also includes applications of modular forms to such diverse subjects as the theory of quadratic forms the proof of Fermat s last theorem and the approximation of pi It provides a balanced overview of both the theoretical and computational sides of the subject allowing a variety of courses to be taught from it   *Fermat's Last Theorem, an Indictment of Modern Mathematical Scholasticism with a Demand for the Recognition of Truth and Administration of Justice* ,1926   **Fermat's Last Theorem** Amir D. Aczel,1997 Explains how the most famous mathematical problem of the past three centuries was solved   **Cyclotomic Fields and Related Topics** Sukumar Das Adhikari,2000

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