

# Jean Pierre Serre Springer

A Comparison Theorem for Semi-Abelian Schemes over a Smooth Curve  
Forms of Fermat Equations and Their Zeta Functions  
Basic Modern Theory of Linear Complex Analytic  $q$ -Difference Equations  
Maximal Cohen–Macaulay Modules and Tate Cohomology  
Rational Points on Varieties  
Biscuits of Number Theory  
Trees  
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in this volume an abstract theory of forms is developed thus providing a conceptually satisfying framework for the classification of forms of fermat equations the classical results on diagonal forms are extended to the broader class of all

forms of fermat varieties the main topic is the study of forms of the fermat equation over an arbitrary field  $k$  using galois descent all such forms are classified particularly a complete and explicit classification of all cubic binary equations is given if  $k$  is a finite field containing the  $d$ th roots of unity the galois representation on  $l$  adic cohomology and so in particular the zeta function of the hypersurface associated with an arbitrary form of the fermat equation of degree  $d$  is computed

the roots of the modern theories of differential and  $q$  difference equations go back in part to an article by george d birkhoff published in 1913 dealing with the three sister theories of differential difference and  $q$  difference equations this book is about  $q$  difference equations and focuses on techniques inspired by differential equations in line with birkhoff's work as revived over the last three decades it follows the approach of the ramis school mixing algebraic and analytic methods while it uses some  $q$  calculus and is illustrated by  $q$  special functions these are not its main subjects after a gentle historical introduction with emphasis on mathematics and a thorough study of basic problems such as elementary  $q$  functions elementary  $q$  calculus and low order equations a detailed algebraic and analytic study of scalar equations is followed by the usual process of transforming them into systems and back again the structural algebraic and analytic properties of systems are then described using  $q$  difference modules newton polygon filtration by the slopes the final chapters deal with fuchsian and irregular equations and systems including their resolution classification riemann hilbert correspondence and galois theory nine appendices complete the book and aim to help the reader by providing some fundamental yet not universally taught facts there are 535 exercises of various styles and levels of difficulty the main prerequisites are general algebra and analysis as taught in the first three years of university the book will be of interest to expert and non expert researchers as well as graduate students in mathematics and physics

this book is a lightly edited version of the unpublished manuscript maximal cohen macaulay modules and tate cohomology over gorenstein rings by ragnar olaf buchweitz the central objects of study are maximal cohen macaulay modules over not necessarily commutative gorenstein rings the main result is that the stable category of maximal cohen macaulay modules over a gorenstein ring is equivalent to the stable derived category and also to the homotopy category of acyclic complexes of projective modules this assimilates and significantly extends earlier work of eisenbud on hypersurface singularities there is also an extensive discussion of duality phenomena in stable derived categories extending tate duality on cohomology of finite groups another noteworthy aspect is an extension of the classical bgg correspondence to super algebras there are numerous examples that illustrate these ideas the text includes a survey of developments subsequent to and connected with buchweitz's manuscript

this book is motivated by the problem of determining the set of rational points on a variety but its true goal is to equip readers with a broad range of tools essential for current research in algebraic geometry and number theory the book is unconventional in that it provides concise accounts of many topics instead of a comprehensive account of just one this is intentionally designed to bring readers up to speed rapidly among the topics included are brauer groups faithfully flat descent algebraic groups torsors étale and fppf cohomology the weil conjectures and the brauer manin and descent obstructions a final chapter applies all these to study the arithmetic of surfaces the down to earth explanations and the over 100 exercises make the book suitable for use as a graduate level textbook but even experts will appreciate having a single source covering many aspects of geometry over an unrestricted ground field and containing some material that cannot be found elsewhere the origins of arithmetic or diophantine geometry can be traced back to antiquity and it remains a lively and wide research domain up to our days the book by bjorn poonen a leading expert in the field opens doors to this vast field for many readers with different experiences and backgrounds it leads through various algebraic geometric constructions towards its central subject obstructions to existence of rational points yuri manin max planck institute bonn it is clear that my mathematical life would have been very different if a book like this had been around at the time i was a student hendrik lenstra university leiden understanding rational points on arbitrary algebraic varieties is the ultimate challenge we have conjectures but few results poonen s book with its mixture of basic constructions and openings into current research will attract new generations to the queen of mathematics jean louis colliot thélène université paris sud a beautiful subject handled by a master joseph silverman brown university

in biscuits of number theory the editors have chosen articles that are exceptionally well written and that can be appreciated by anyone who has taken or is taking a first course in number theory this book could be used as a textbook supplement for a number theory course especially one that requires students to write papers or do outside reading the editors give examples of some of the possibilities the collection is divided into seven chapters arithmetic primes irrationality and continued fractions sums of squares and polygonal numbers fibonacci numbers number theoretic functions and elliptic curves cubes and fermat s last theorem as with any anthology you don t have to read the biscuits in order dip into them anywhere pick something from the table of contents that strikes your fancy and have at it if the end of an article leaves you wondering what happens next then by all means dive in and do some research you just might discover something new

the seminal ideas of this book played a key role in the development of group theory since the 70s several generations of mathematicians learned geometric ideas in group theory from this book in it the author proves the fundamental theorem for

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this text for students and professionals in computer science provides a valuable overview of current knowledge concerning parallel algorithms these computer operations have recently acquired increased importance due to their ability to enhance the power of computers by permitting multiple processors to work on different parts of a problem independently and simultaneously this approach has led to solutions of difficult problems in a number of vital fields including artificial intelligence image processing and differential equations as the first up to date summary of the topic this book will be sought after by researchers computer science professionals and advanced students involved in parallel computing and parallel algorithms

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