Jean Pierre Serre Springer

TreesLocal FieldsA Comparison Theorem for Semi-Abelian Schemes over a Smooth CurveForms of Fermat Equations and Their Zeta FunctionsBasic Modern Theory of Linear Complex Analytic q-Difference EquationsBiscuits of Number TheoryRational Points on VarietiesGalois CohomologyElliptic Curves and Ordinary Abelian Varieties Over Finite FieldsAlgebraic Groups and Class FieldsMathematics of the USSR.Mathematics of the USSR: IzvestijaOeuvres - Collected Papers IVBooks in SeriesAmerican Journal of PhysicsCatalog of Copyright Entries. Third SeriesNewsletterBulletin (new Series) of the American Mathematical SocietyAmerican Book Publishing Record Cumulative, 1950-1977Library of Congress Catalog Jean-Pierre Serre Jean-Pierre Serre Fabien Trihan Lars Brⵗnjes Jacques Sauloy Arthur T. Benjamin Bjorn Poonen Jean-Pierre Serre Everett William Howe Jean-Pierre Serre Jean-Pierre Serre Library of Congress. Copyright Office New Zealand Mathematical Society R.R. Bowker Company. Department of Bibliography Library of Congress

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 the special cases of free groups and tree products before dealing with the proof of the general case this new edition is ideal for graduate students and researchers in algebra geometry and topology

the goal of this book is to present local class field theory from the cohomo logical point of view following the method inaugurated by hochschild and developed by artin tate this theory is about extensions primarily abelian of local i e complete for a discrete valuation fields with finite residue field for example such fields are obtained by completing an algebraic number field that is one of the aspects of localisation the chapters are grouped in parts there are three preliminary parts the first two on the general theory of local fields the third on group coho mology local class field theory strictly speaking does not appear until the fourth part here is a more precise outline of the contents of these four parts the first contains basic definitions and results on discrete valuation rings dedekind domains which are their globalisation and the completion process the prerequisite for this part is a knowledge of elementary notions of algebra and topology which may be found for instance in bourbaki the second part is concerned with ramification phenomena different discriminant ramification groups artin representation just as in the first part no assumptions are made here about the residue fields it is in this setting that the norm map is studied i have expressed the results in terms of additive polynomials and of multiplicative polynomials since using the language of algebraic geometry would have led me too far astray

view the abstract

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

an anthology of articles designed to supplement a first course in number theory

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

this volume is an english translation of cohomologie galoisienne the original edition springer ln5 1964 was based on the notes written with the help of michel raynaud of a course i gave at the college de france in 1962 1963 in the present edition there are numerous additions and one suppression verdier s text on the duality of profinite groups the most important addition is the photographic reproduction of r steinberg s regular elements of semisimple algebraic groups publ math lh e s 1965 i am very grateful to him and to lh e s for having authorized this reproduction other additions include a proof of the golod shafarevich inequality chap i app 2 the resume de cours of my 1991 1992 lectures at the college de france on galois cohomology of k t chap ii app the resume de cours of my 1990 1991 lectures at the college de france on galois cohomology of semisimple groups and its relation with abelian cohomology especially in dimension 3 chap iii app 2 the bibliography has been extended open questions have been updated as far as possible and several exercises have been added in order to facilitate references the numbering of propositions lemmas and theorems has been kept as in the original 1964 text jean pierre serre harvard fall 1996 table of contents foreword v chapter i cohomology of profinite groups 1 profinite groups 3

translation of the french edition

the impact and influence of j p serre s work have been notable ever since his doctoral thesis on homotopy groups the abundance of findings and deep insights found in his research and survey papers ranging from topology several complex variables and algebraic geometry to number theory group theory commutative algebra and modular forms continues to provide inspiring reading for mathematicians working in these areas in their research and their teaching characteristic of serre s publications are the many open questions he formulates pointing to further directions for research in four volumes of collected papers he has provided comments on and corrections to most articles and described the current status of the open questions with reference to later findings in this softcover edition of volume iv two recently published articles have

been added one on the life and works of andré weil the other one on finite subgroups of lie groups from the reviews this is the fourth volume of j p serre s collected papers covering the period 1985 1998 items numbered 133 173 contain the essence of his work from that period and are devoted to number theory algebraic geometry and group theory half of them are articles and another half are summaries of his courses in those years and letters most courses have never been previously published nor proofs of the announced results the letters reproduced however in particular to k ribet and m f vignéras provide indications of some of those proofs also included is an interview with j p serre from 1986 revealing his views on mathematics with the stress upon its integrity and his own mathematical activity the volume ends with notes which complete the text by reporting recent progress and occasionally correct it zentralblatt math

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