

7.1 SUBGROUPS

Definition 7.1.1

Assume $\langle G, * \rangle$ is a group and $H \subset G$ and $H \neq \phi$. Then H is called a subgroup of G if H itself is a group under operation $*$ in G .

Notation: Write $H < G$ for H subgroup of G .

Subset $H = \{e\}$ and $H = G$ is always a subgroup of group G , which is named as a **trivial subgroup**. All other subgroup of G is called a **non-trivial subgroup** or **proper subgroup**.

Example 7.1.1

Set $\langle \mathbb{Z}, + \rangle$ is a group (Refer Example 7.1.1). Prove that the set E of all even numbers is a non-trivial subgroup under addition in \mathbb{Z} .

Proof

$E = \{x = 2m \mid m \in \mathbb{Z}\}$. Known that $E \subset \mathbb{Z}$ and $E \neq \phi$. Prove 4 properties of group as

Definition 7.1.1.

1. Say $y = 2n$ where $n \in \mathbb{Z}$.
Then $x + y = 2m + 2n = 2(m + n) = 2k \in E$ where $k \in \mathbb{Z}$.
Thus E is closed under addition for all $x, y, z \in E$.
2. Say $z = 2p$ where $p \in \mathbb{Z}$.
Then $(x + y) + z = (2m + 2n) + (2p) = 2(m + n + p) = 2q \in E$ where $q \in \mathbb{Z}$.
And $x + (y + z) = (2m) + (2n + 2p) = 2(m + n + p) = 2q \in E$ where $q \in \mathbb{Z}$.
Thus E is associative for all $x, y, z \in E$.
3. $e + x = x \rightarrow e + 2m = 2m \rightarrow e = 0 = 2(0) \in E$
while $x + e = x \rightarrow 2m + e = 2m \rightarrow e = 0 = 2(0) \in E$
Then an identity under addition for all $x \in E$ is $e = 0$.
4. $x + (-x) = e \rightarrow x + (-x) = 0 \rightarrow -x = -2m = 2(-m) = 2s \in E$ where $s \in \mathbb{Z}$
While $-x + x = e \rightarrow -x + x = 0 \rightarrow -x = -2m = 2(-m) = 2s \in E$
Thus there exists an inverse $x = 2(-m)$ for every $x \in E$.

$\langle E, + \rangle$ is a non-trivial subgroup of $\langle \mathbb{Z}, + \rangle$ was proven.

Summer Inst On Number Theory Lect Notes

**Michael Tsfasman, Serge Vlăduț, Dmitry
Nogin**



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AMS Lecture Notes Prepared in Connection with the Summer Institute on Number Theory: Analytic Number Theory Diophantine Problems, and Algebraic Number Theory, *LuCaNT: LMFDB, Computation, and Number Theory* John Cremona, John Jones, Jennifer Paulhus, Andrew V. Sutherland, John Voight, 2024-03-22 This book will be published Open Access with a Creative Commons Attribution 4.0 International License CC BY 4.0 The eBook can be downloaded electronically for free This volume contains the proceedings of the LuCaNT LMFDB Computation and Number Theory conference held from July 10-14 2023 at the Institute for Computational and Experimental Research in Mathematics ICERM Providence Rhode Island and affiliated with Brown University This conference provided an opportunity for researchers scholars and practitioners to exchange ideas share advances and collaborate in the fields of computation mathematical databases number theory and arithmetic geometry The papers that appear in this volume record recent advances in these areas with special focus on the LMFDB the L Functions and Modular Forms Database an online resource for mathematical objects arising in the Langlands program and the connections between them **Number Theory** David V. Chudnovsky, Gregory V. Chudnovsky, Harvey Cohn, Melvyn B. Nathanson, 2013-11-21 New York Number Theory Seminar started its regular meeting in January 1982 The Seminar has been meeting on a regular basis weekly during the academic year since then The meeting place of the seminar is in midtown Manhattan at the Graduate School and University Center of the City University of New York This central location allows number theorists in the New York metropolitan area and visitors an easy access Four volumes of the Seminar proceedings containing expanded texts of Seminar's lectures had been published in the Springer's Lecture Notes in Mathematics series as volumes 1052 1984 1135 1985 1240 1987 and 1383 1989 Seminar co chairmen are pleased that some of the contributions to the Seminar opened new avenues of research in Number Theory and related areas On a historical note one of such contributions proved to be a contribution by P Landweber In addition to classical and modern Number Theory this Seminar encourages Computational Number Theory This book presents a selection of invited lectures presented at the New York Number Theory Seminar during 1989-1990 These papers cover wide areas of Number Theory particularly modular functions Algebraic and Diophantine Geometry and Computational Number Theory The review of C L Chai presents a broad view of the moduli of Abelian varieties based on recent work of the author and many other prominent experts This provides the reader interested in Diophantine Analysis with access to state of the art research The paper of D V and G V *Etale Cohomology and the Weil Conjecture* Eberhard Freitag, Reinhardt Kiehl, 2013-03-14 Some years ago a conference on l -adic cohomology in Oberwolfach was held with the aim of reaching an understanding of Deligne's proof of the Weil conjectures For the convenience of the speakers the present authors who were also the organisers of that meeting prepared short notes containing the central definitions and ideas of the proofs The unexpected interest for these notes and the various suggestions to publish them encouraged us to work somewhat more on them and fill out the gaps Our

aim was to develop the theory in as self contained and as short a manner as possible We intended especially to provide a complete introduction to étale and l -adic cohomology theory including the monodromy theory of Lefschetz pencils Of course all the central ideas are due to the people who created the theory especially Grothendieck and Deligne The main references are the SGA notes 64-69 With the kind permission of Professor J. A. Dieudonné we have included in the book that finally resulted his excellent notes on the history of the Weil conjectures as a second introduction Our original notes were written in German However we finally followed the recommendation made variously to publish the book in English We had the good fortune that Professor W. Waterhouse and his wife Betty agreed to translate our manuscript We want to thank them very warmly for their willing involvement in such a tedious task We are very grateful to the staff of Springer Verlag for their careful work

Introduction to Modern Number Theory Yu. I. Manin, Alexei A. Panchishkin, 2006-03-30 This edition has been called startlingly up to date and in this corrected second printing you can be sure that it is even more contemporaneous It surveys from a unified point of view both the modern state and the trends of continuing development in various branches of number theory Illuminated by elementary problems the central ideas of modern theories are laid bare Some topics covered include non-Abelian generalizations of class field theory recursive computability and Diophantine equations zeta and L -functions This substantially revised and expanded new edition contains several new sections such as Wiles proof of Fermat's Last Theorem and relevant techniques coming from a synthesis of various theories

Arithmetic, Geometry, Cryptography, and Coding Theory 2021 Samuele Anni, Valentijn Karemaker, Elisa Lorenzo García, 2022-07-06 This volume contains the proceedings of the 18th International Conference on Arithmetic Geometry Cryptography and Coding Theory held online from May 31 to June 4 2021 For over thirty years the biennial international conference AGC 2 T Arithmetic Geometry Cryptography and Coding Theory has brought researchers together to forge connections between arithmetic geometry and its applications to coding theory and to cryptography The papers illustrate the fruitful interaction between abstract theory and explicit computations covering a large range of topics including Belyi maps Galois representations attached to elliptic curves reconstruction of curves from their Jacobians isogeny graphs of abelian varieties hypergeometric equations and Drinfeld modules

Algebraic Geometric Codes: Basic Notions Michael Tsfasman, Serge Vlăduț, Dmitry Nogin, 2022-04-15 The book is devoted to the theory of algebraic geometric codes a subject formed on the border of several domains of mathematics On one side there are such classical areas as algebraic geometry and number theory on the other information transmission theory combinatorics finite geometries dense packings etc The authors give a unique perspective on the subject Whereas most books on coding theory build up coding theory from within starting from elementary concepts and almost always finishing without reaching a certain depth this book constantly looks for interpretations that connect coding theory to algebraic geometry and number theory There are no prerequisites other than a standard algebra graduate course The first two chapters of the book can serve as an introduction to coding theory and algebraic geometry respectively Special attention

is given to the geometry of curves over finite fields in the third chapter Finally in the last chapter the authors explain relations between all of these the theory of algebraic geometric codes **Arithmetic Geometry, Number Theory, and Computation** Jennifer S. Balakrishnan, Noam Elkies, Brendan Hassett, Bjorn Poonen, Andrew V. Sutherland, John Voight, 2022-03-15 This volume contains articles related to the work of the Simons Collaboration Arithmetic Geometry Number Theory and Computation The papers present mathematical results and algorithms necessary for the development of large scale databases like the L functions and Modular Forms Database LMFDB The authors aim to develop systematic tools for analyzing Diophantine properties of curves surfaces and abelian varieties over number fields and finite fields The articles also explore examples important for future research Specific topics include algebraic varieties over finite fields the Chabauty Coleman method modular forms rational points on curves of small genus S unit equations and integral points

Singularities of Differentiable Maps V.I. Arnold, Alexander Varchenko, S.M. Gusein-Zade, 1985-01-01 there is nothing so enthralling so grandiose nothing that stuns or captivates the human soul quite so much as a first course in a science After the first five or six lectures one already holds the brightest hopes already sees oneself as a seeker after truth I too have wholeheartedly pursued science passionately as one would a beloved woman I was a slave and sought no other sun in my life Day and night I crammed myself bending my back ruining myself over my books I wept when I beheld others exploiting science for personal gain But I was not long enthralled The truth is every science has a beginning but never an end they go on for ever like periodic fractions Zoology for example has discovered thirty five thousand forms of life A P Chekhov On the road In this book a start is made to the zoology of the singularities of differentiable maps This theory is a young branch of analysis which currently occupies a central place in mathematics it is the crossroads of paths leading from very abstract corners of mathematics such as algebraic and differential geometry and topology Lie groups and algebras complex manifolds commutative algebra and the like to the most applied areas such as differential equations and dynamical systems optimal control the theory of bifurcations and catastrophes short wave and saddle point asymptotics and geometrical and wave optics

Harmonic Analysis and Number Theory Carl Herz, Stephen William Drury, Maruti Ram Murty, 1997 This volume presents the proceedings of a conference on Harmonic Analysis and Number Theory held at McGill University Montreal in April 1996 The papers are dedicated to the memory of Carl Herz who had deep interests in both harmonic analysis and number theory These two disciplines have a symbiotic relationship that is reflected in the papers in this book *Number Theory, Analysis and Geometry* Dorian Goldfeld, Jay Jorgenson, Peter Jones, Dinakar Ramakrishnan, Kenneth Ribet, John Tate, 2011-12-21 Serge Lang was an iconic figure in mathematics both for his own important work and for the indelible impact he left on the field of mathematics on his students and on his colleagues Over the course of his career Lang traversed a tremendous amount of mathematical ground As he moved from subject to subject he found analogies that led to important questions in such areas as number theory arithmetic geometry and the theory of negatively curved spaces Lang's conjectures will keep many

mathematicians occupied far into the future In the spirit of Lang's vast contribution to mathematics this memorial volume contains articles by prominent mathematicians in a variety of areas of the field namely Number Theory Analysis and Geometry representing Lang's own breadth of interest and impact A special introduction by John Tate includes a brief and fascinating account of the Serge Lang's life This volume's group of 6 editors are also highly prominent mathematicians and were close to Serge Lang both academically and personally The volume is suitable to research mathematicians in the areas of Number Theory Analysis and Geometry

Sequences, Groups, and Number Theory Valérie Berthé, Michel Rigo, 2018-04-09 This collaborative book presents recent trends on the study of sequences including combinatorics on words and symbolic dynamics and new interdisciplinary links to group theory and number theory Other chapters branch out from those areas into subfields of theoretical computer science such as complexity theory and theory of automata The book is built around four general themes number theory and sequences word combinatorics normal numbers and group theory Those topics are rounded out by investigations into automatic and regular sequences tilings and theory of computation discrete dynamical systems ergodic theory numeration systems automaton semigroups and amenable groups This volume is intended for use by graduate students or research mathematicians as well as computer scientists who are working in automata theory and formal language theory With its organization around unified themes it would also be appropriate as a supplemental text for graduate level courses

Non-Commutative Harmonic Analysis J. Carmona, M. Vergne, 2006-11-15 Acoustics and the Performance of Music connects scientific understandings of acoustics with practical applications to musical performance Of central importance are the tonal characteristics of musical instruments and the singing voice including detailed representations of directional characteristics Furthermore room acoustical concerns related to concert halls and opera houses are considered Based on this suggestions are made for musical performance Included are seating arrangements within the orchestra and adaptations of performance techniques to the performance environment In the presentation we dispense with complicated mathematical connections and deliberately aim for conceptual explanations accessible to musicians particularly for conductors The graphical representations of the directional dependence of sound radiation by musical instruments and the singing voice are unique Since the first edition was published in 1978 this book has been completely revised and rewritten to include current research This translation corresponds to the latest fifth German edition 2004 which has become a standard reference work for audio engineers and scientists Acoustics and the Performance of Music addresses issues that are of interest to acousticians orchestra performers and conductors audio engineers architects Researchers and students of musical acoustics will also find this text valuable

Brandt Matrices and Theta Series over Global Function Fields Chih-Yun Chuang, Ting-Fang Lee, Fu-Tsun Wei, Jing Yu, 2015-08-21 The aim of this article is to give a complete account of the Eichler Brandt theory over function fields and the basis problem for Drinfeld type automorphic forms Given arbitrary function field k together with a fixed place the authors construct a family of theta series from the norm forms of definite quaternion algebras

and establish an explicit Hecke module homomorphism from the Picard group of an associated definite Shimura curve to a space of Drinfeld type automorphic forms The compatibility of these homomorphisms with different square free levels is also examined These Hecke equivariant maps lead to a nice description of the subspace generated by the authors theta series and thereby contributes to the so called basis problem Restricting the norm forms to pure quaternions the authors obtain another family of theta series which are automorphic functions on the metaplectic group and this results in a Shintani type correspondence between Drinfeld type forms and metaplectic forms

Modular Forms: A Classical And Computational Introduction (2nd Edition) Lloyd James Peter Kilford, 2015-03-12 Modular Forms is 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 various subjects such as the theory of quadratic forms the proof of Fermat's Last Theorem and the approximation of The text gives a balanced overview of both the theoretical and computational sides of its subject allowing a variety of courses to be taught from it This second edition has been revised and updated New material on the future of modular forms as well as a chapter about longer form projects for students has also been added

Selected Works of Ilya Piatetski-Shapiro Илья́евич Пиа́тетский-Шапиро, 2000 Piatetski Shapiro himself with the consultation of the editors selected these 162 papers some of which appear in English for the first time Together they represent almost 50 years of his service to mathematics and though arranged by subject are nearly in chronological order Each of the sections conclude with commentary on the entire work of Piatetski Shapiro's in that area including related developments Following his autobiographical Etude on life and automorphic forms in the Soviet Union sections cover early papers in harmonic analysis and number theory automorphic functions and discrete groups bounded homogeneous domains applied mathematics algebraic geometry automorphic L functions and theta lifts and applications to generalized Ramanujan conjectures Books and long papers have been excluded No index Annotation copyrighted by Book News Inc Portland OR

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Lectures on K3 Surfaces Daniel Huybrechts, 2016-09-26 K3 surfaces are central objects in modern algebraic geometry This book examines this important class of Calabi Yau manifolds from various perspectives in eighteen self contained chapters It starts with the basics and guides the reader to recent breakthroughs such

as the proof of the Tate conjecture for K3 surfaces and structural results on Chow groups. Powerful general techniques are introduced to study the many facets of K3 surfaces including arithmetic, homological, and differential geometric aspects. In this context, the book covers Hodge structures, moduli spaces, periods, derived categories, birational techniques, Chow rings, and deformation theory. Famous open conjectures, for example, the conjectures of Calabi, Weil, and Artin-Tate, are discussed in general and for K3 surfaces in particular, and each chapter ends with questions and open problems. Based on lectures at the advanced graduate level, this book is suitable for courses and as a reference for researchers.

Diophantine Approximation and Abelian Varieties Bas Edixhoven, Jan-Hendrik Evertse, 1993-12-20. The 13 chapters of this book centre around the proof of Theorem 1 of Faltings' paper "Diophantine approximation on abelian varieties" (Ann Math 133 1991) and together give an approach to the proof that is accessible to Ph.D. level students in number theory and algebraic geometry. Each chapter is based on an instructional lecture given by its author at a special conference for graduate students on the topic of Faltings' paper.

Number Theory Related to Fermat's Last Theorem Koblitz, 2013-11-21.

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