

Arithmeticity in the Theory of Automorphic Forms

Goro Shimura



American Mathematical Society

Arithmeticity In The Theory Of

**Ellen Elizabeth Eischen, Wee Teck
Gan, Aaron Pollack, Zhiwei Yun**

Arithmeticity In The Theory Of:

Arithmeticity in the Theory of Automorphic Forms Goro Shimura, 2000 Written by one of the leading experts venerable grandmasters and most active contributors in the arithmetic theory of automorphic forms the new material included here is mainly the outcome of his extensive work over the last eight years a very careful detailed introduction to the subject this monograph is an important comprehensively written and profound treatise on some recent achievements in the theory Zentralblatt MATH The main objects of study in this book are Eisenstein series and zeta functions associated with Hecke eigenforms on symplectic and unitary groups After preliminaries including a section Notation and Terminology the first part of the book deals with automorphic forms on such groups In particular their rationality over a number field is defined and discussed in connection with the group action also the reciprocity law for the values of automorphic functions at CM points is proved Next certain differential operators that raise the weight are investigated in higher dimension The notion of nearly holomorphic functions is introduced and their arithmeticity is defined As applications of these the arithmeticity of the critical values of zeta functions and Eisenstein series is proved Though the arithmeticity is given as the ultimate main result the book discusses many basic problems that arise in number theoretical investigations of automorphic forms but that cannot be found in expository forms Examples of this include the space of automorphic forms spanned by cusp forms and certain Eisenstein series transformation formulas of theta series estimate of the Fourier coefficients of modular forms and modular forms of half integral weight All these are treated in higher dimensional cases The volume concludes with an Appendix and an Index The book will be of interest to graduate students and researchers in the field of zeta functions and modular forms

The Theory of Eisenstein Systems, 1982-01-06 The Theory of Eisenstein Systems **Automorphic Forms Beyond GL_2** Ellen Elizabeth Eischen, Wee Teck Gan, Aaron Pollack, Zhiwei Yun, 2024-03-26 The Langlands program has been a very active and central field in mathematics ever since its conception over 50 years ago It connects number theory representation theory and arithmetic geometry and other fields in a profound way There are nevertheless very few expository accounts beyond the GL_2 case This book features expository accounts of several topics on automorphic forms on higher rank groups including rationality questions on unitary group theta lifts and their applications to Arthur's conjectures quaternionic modular forms and automorphic forms over functions fields and their applications to inverse Galois problems It is based on the lecture notes prepared for the twenty fifth Arizona Winter School on Automorphic Forms beyond GL_2 held March 5-9 2022 at the University of Arizona in Tucson The speakers were Ellen Eischen Wee Teck Gan Aaron Pollack and Zhiwei Yun The exposition of the book is in a style accessible to students entering the field Advanced graduate students as well as researchers will find this a valuable introduction to various important and very active research areas

The Concentration of Measure Phenomenon Michel Ledoux, 2001 The observation of the concentration of measure phenomenon is inspired by isoperimetric inequalities A familiar example is

the way the uniform measure on the standard sphere S^n becomes concentrated around the equator as the dimension gets large This property may be interpreted in terms of functions on the sphere with small oscillations an idea going back to Levy The phenomenon also occurs in probability as a version of the law of large numbers due to Emil Borel This book offers the basic techniques and examples of the concentration of measure phenomenon The concentration of measure phenomenon was put forward in the early seventies by V Milman in the asymptotic geometry of Banach spaces It is of powerful interest in applications in various areas such as geometry functional analysis and infinite dimensional integration discrete mathematics and complexity theory and probability theory Particular emphasis is on geometric functional and probabilistic tools to reach and describe measure concentration in a number of settings This book presents concentration functions and inequalities isoperimetric and functional examples spectrum and topological applications product measures entropic and transportation methods as well as aspects of M Talagrand's deep investigation of concentration in product spaces and its application in discrete mathematics and probability theory supremum of Gaussian and empirical processes spin glass random matrices etc Prerequisites are a basic background in measure theory functional analysis and probability theory

Geometric Group Theory Mladen Bestvina, Michah Sageev, Karen Vogtmann, 2014-12-24 Geometric group theory refers to the study of discrete groups using tools from topology geometry dynamics and analysis The field is evolving very rapidly and the present volume provides an introduction to and overview of various topics which have played critical roles in this evolution The book contains lecture notes from courses given at the Park City Math Institute on Geometric Group Theory The institute consists of a set of intensive short courses offered by leaders in the field designed to introduce students to exciting current research in mathematics These lectures do not duplicate standard courses available elsewhere The courses begin at an introductory level suitable for graduate students and lead up to currently active topics of research The articles in this volume include introductions to CAT 0 cube complexes and groups to modern small cancellation theory to isometry groups of general CAT 0 spaces and a discussion of nilpotent genus in the context of mapping class groups and CAT 0 groups One course surveys quasi isometric rigidity others contain an exploration of the geometry of Outer space of actions of arithmetic groups lectures on lattices and locally symmetric spaces on marked length spectra and on expander graphs Property tau and approximate groups This book is a valuable resource for graduate students and researchers interested in geometric group theory Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price

Non-Archimedean L-Functions and Arithmetical Siegel Modular Forms Michel Courtieu, Alexei A. Panchishkin, 2003-12-09 This book now in its 2nd edition is devoted to the arithmetical theory of Siegel modular forms and their L functions The central object are L functions of classical Siegel modular forms whose special values are studied using the Rankin Selberg method and the action of certain differential operators on modular forms which have nice arithmetical

properties A new method of p adic interpolation of these critical values is presented An important class of p adic L functions treated in the present book are p adic L functions of Siegel modular forms having logarithmic growth The given construction of these p adic L functions uses precise algebraic properties of the arithmetical Shimura differential operator The book will be very useful for postgraduate students and for non experts looking for a quick approach to a rapidly developing domain of algebraic number theory This new edition is substantially revised to account for the new explanations that have emerged in the past 10 years of the main formulas for special L values in terms of arithmetical theory of nearly holomorphic modular forms

Number Theory David Chudnovsky, Gregory Chudnovsky, Melvyn B. Nathanson, 2011-06-27 This volume marks the 20th anniversary of the New York Number Theory Seminar NYNTS The seminar began to meet in the Spring 1982 semester at the CUNY Graduate Center in midtown Manhattan and has been meeting continuously at the Graduate Center for two decades even as the Graduate Center moved from its original location on 42nd Street near Fifth Avenue to temporary quarters in an office building next to Grand Central Station to a new and elegant building in the former B Altman department store on Fifth Avenue between 34th and 35th Streets The seminar was originally organized by Harvey Cohn David and Gregory Chudnovsky and Melvyn B Nathanson In 1982 Harvey Cohn was at City College CUNY and the Graduate Center the Chudnovskys were at Columbia and Mel Nathanson was at Rutgers Today Harvey has retired to California the Chudnovskys are at Polytechnic University of New York and Nathanson is at Lehman College CUNY and the Graduate Center

Global Dynamics, Phase Space Transport, Orbits Homoclinic to Resonances, and Applications Stephen Wiggins, This monograph which grew out of a series of lectures delivered by Stephen Wiggins at the Fields Institute in early 1993 is concerned with the geometrical viewpoint of the global dynamics of nonlinear dynamical systems With appropriate examples and concise explanations Wiggins unites many different topics into one volume and makes a unique contribution to the field Engineers physicists chemists and mathematicians who work on issues related to the global dynamics of nonlinear dynamical systems will find these lectures very useful

The Classification of the Finite Simple Groups, Number 5 Daniel Gorenstein, Richard Lyons, Ronald Solomon, 1994 The fifth volume of the study proves two and part of the third of the planned five stages for the generic case of the classification of finite simple groups The main result is that either G has a p uniqueness subgroup for some prime p or that G has a neighborhood of semisimple subgroups that demonstrate certain properties in common with those in target simple groups G All this is preparation for the final stages which are expected to deduce that G is about the same as G for some known simple G Stay tuned Perhaps an index will be deemed meet when the final answers are revealed

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Isometric Embedding of Riemannian Manifolds in Euclidean Spaces Qing Han, Jia-Xing Hong, Jiaying Hong, 2006 The question of the existence of isometric embeddings of Riemannian manifolds in Euclidean space is already more than a century old This book presents in a systematic way results both local and global and in arbitrary dimension but with a focus on the isometric embedding of surfaces in \mathbb{R}^3 The

emphasis is on those PDE techniques which are essential to the most important results of the last century. The classic results in this book include the Janet-Cartan Theorem, Nirenberg's solution of the Weyl problem, and Nash's Embedding Theorem with a simplified proof by Gunther. The book also includes the main results from the past twenty years, both local and global, on the isometric embedding of surfaces in Euclidean 3-space. The work will be indispensable to researchers in the area. Moreover, the authors integrate the results and techniques into a unified whole, providing a good entry point into the area for advanced graduate students or anyone interested in this subject. The authors avoid what is technically complicated. Background knowledge is kept to an essential minimum: a one-semester course in differential geometry and a one-year course in partial differential equations.

Decoding **Arithmeticity In The Theory Of**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Arithmeticity In The Theory Of**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Arithmeticity In The Theory Of Introduction

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