

Michel Courtieu
Alexei Panchishkin

Non-Archimedean L-Functions and Arithmetical Siegel Modular Forms

1471

Second, Augmented Edition

$$\begin{array}{ccc}
 \mathcal{M}(Np^{v+1}) & \xrightarrow{\pi_{\alpha, v+1}} & \mathcal{M}^{\alpha}(Np^{v+1}) \\
 U_p^v \downarrow & & \downarrow \wr U_p^v \\
 \mathcal{M}(Np) & \xrightarrow{\pi_{\alpha, 1}} & \mathcal{M}^{\alpha}(Np)
 \end{array}$$



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Non-Archimedean L-Functions and Arithmetical Siegel Modular Forms Michel Courtieu, *Non-Archimedean L-Functions and Arithmetical Siegel Modular Forms* Michel Courtieu, Alexei A. Panchishkin, 2003-12-05 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 Non-Archimedean L-Functions and Arithmetical Siegel Modular Forms Michel Courtieu, Alexei A. Panchishkin, 2003 **Non-Archimedean**

L-Functions and Arithmetical Siegel Modular Forms Michel Courtieu, Alexei A. Panchishkin, 2014-09-01

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

Iwasawa Theory 2012 Thanasis Bouganis, Otmar Venjakob, 2014-12-08 This is the fifth conference in a bi annual series following conferences in Besancon Limoges Irsee and Toronto The meeting aims to bring together different strands of research in and closely related to the area of Iwasawa theory During the week before the conference in a kind of summer

school a series of preparatory lectures for young mathematicians was provided as an introduction to Iwasawa theory. Iwasawa theory is a modern and powerful branch of number theory and can be traced back to the Japanese mathematician Kenkichi Iwasawa who introduced the systematic study of \mathbb{Z}_p extensions and p -adic L functions concentrating on the case of ideal class groups. Later this would be generalized to elliptic curves. Over the last few decades considerable progress has been made in automorphic Iwasawa theory e.g. the proof of the Main Conjecture for $GL(2)$ by Kato and Skinner. Urban Techniques such as Hida's theory of p -adic modular forms and big Galois representations play a crucial part. Also a noncommutative Iwasawa theory of arbitrary p -adic Lie extensions has been developed. This volume aims to present a snapshot of the state of art of Iwasawa theory as of 2012. In particular it offers an introduction to Iwasawa theory based on a preparatory course by Chris Wuthrich and a survey of the proof of Skinner-Urban based on a lecture course by Xin Wan.

Elliptic Curves, Modular Forms and Iwasawa Theory David Loeffler, Sarah Livia Zerbes, 2017-01-15 Celebrating one of the leading figures in contemporary number theory John H Coates on the occasion of his 70th birthday this collection of contributions covers a range of topics in number theory concentrating on the arithmetic of elliptic curves modular forms and Galois representations. Several of the contributions in this volume were presented at the conference Elliptic Curves Modular Forms and Iwasawa Theory held in honour of the 70th birthday of John Coates in Cambridge March 25-27 2015. The main unifying theme is Iwasawa theory a field that John Coates himself has done much to create. This collection is indispensable reading for researchers in Iwasawa theory and is interesting and valuable for those in many related fields.

Iwasawa Theory and Its Perspective, Volume 3 Tadashi Ochiai, 2025-06-13 Iwasawa theory began in the late 1950s with a series of papers by Kenkichi Iwasawa on ideal class groups in the cyclotomic tower of number fields and their relation to p -adic L functions. The theory was later generalized by putting it in the context of elliptic curves and modular forms. The main motivation for writing this book was the need for a total perspective of Iwasawa theory that includes the new trends of generalized Iwasawa theory. Another motivation is to update the classical theory for class groups taking into account the changed point of view on Iwasawa theory. The goal of this third part of the three part publication is to present additional aspects of the Iwasawa theory of p -adic Galois deformations.

Hecke Operators and Systems of Eigenvalues on Siegel Cusp Forms Kazuyuki Hatada, 2021-06-18 View the abstract

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Elementary

Theory of L-functions and Eisenstein Series Haruzo Hida, 1993-02-11 The theory of p -adic and classic modular forms and the study of arithmetic and p -adic L functions has proved to be a fruitful area of mathematics over the last decade Professor Hida has given courses on these topics in the USA Japan and in France and in this book provides the reader with an elementary but detailed insight into the theory of L functions The presentation is self contained and concise and the subject is approached using only basic tools from complex analysis and cohomology theory Graduate students wishing to know more about L functions will find that this book offers a unique introduction to this fascinating branch of mathematics

Automorphic Forms and Related Geometry: Assessing the Legacy of I.I. Piatetski-Shapiro James W. Cogdell, Freydoon Shahidi, David Soudry, 2014-04-01 This volume contains the proceedings of the conference Automorphic Forms and Related Geometry Assessing the Legacy of I.I. Piatetski Shapiro held from April 23-27 2012 at Yale University New Haven CT Ilya I. Piatetski Shapiro who passed away on 21 February 2009 was a leading figure in the theory of automorphic forms The conference attempted both to summarize and consolidate the progress that was made during Piatetski Shapiro's lifetime by him and a substantial group of his co-workers and to promote future work by identifying fruitful directions of further investigation It was organized around several themes that reflected Piatetski Shapiro's main foci of work and that have promise for future development functoriality and converse theorems local and global functions and their periods adic functions and arithmetic geometry complex geometry and analytic number theory In each area there were talks to review the current state of affairs with special attention to Piatetski Shapiro's contributions and other talks to report on current work and to outline promising avenues for continued progress The contents of this volume reflect most of the talks that were presented at the conference as well as a few additional contributions They all represent various aspects of the legacy of Piatetski Shapiro

Sammlung, 1996 The book is a collection of research and review articles in several areas of modern mathematics and mathematical physics published in the span of three decades The ICM Kyoto talk Mathematics as Metaphor summarises the author's view on mathematics as an outgrowth of natural language

Selected Papers Of Yu I Manin Yu I Manin, 1996-06-28 The book is a collection of research and review articles in several areas of modern mathematics and mathematical physics published in the span of three decades The ICM Kyoto talk Mathematics as Metaphor summarises the author's view on mathematics as an outgrowth of natural language

Arithmetic and Geometry Luis Dieulefait, 2015-10-08 The world's leading authorities describe the state of the art in Serre's conjecture and rational points on algebraic varieties

Real Functions - Current Topics Vasile Ene, 2006-11-14 Most books devoted to the theory of the integral have ignored the nonabsolute integrals despite the fact that the journal literature relating to these has become richer and richer The aim of this monograph is to fill this gap to perform a study on the large number of classes of real functions which have been introduced in this context and to illustrate them with many examples This book reports on some recent advances in the theory of real functions and can serve as a textbook for a course in the subject and to stimulate

further research in this exciting field Motives Uwe Jannsen, Jean-pierre Serre, Steven Kleiman, 1994-02-28 Motives were introduced in the mid 1960s by Grothendieck to explain the analogies among the various cohomology theories for algebraic varieties to play the role of the missing rational cohomology and to provide a blueprint for proving Weil's conjectures about the zeta function of a variety over a finite field Over the last ten years or so researchers in various areas Hodge theory algebraic K theory polylogarithms automorphic forms L functions ℓ -adic representations trigonometric sums and algebraic cycles have discovered that an enlarged and in part conjectural theory of mixed motives indicates and explains phenomena appearing in each area Thus the theory holds the potential of enriching and unifying these areas These two volumes contain the revised texts of nearly all the lectures presented at the AMS IMS SIAM Joint Summer Research Conference on Motives held in Seattle in 1991 A number of related works are also included making for a total of forty seven papers from general introductions to specialized surveys to research papers **Introduction to Cyclotomic Fields** Lawrence C.

Washington, 2012-12-06 Introduction to Cyclotomic Fields is a carefully written exposition of a central area of number theory that can be used as a second course in algebraic number theory Starting at an elementary level the volume covers p -adic L functions class numbers cyclotomic units Fermat's Last Theorem and Iwasawa's theory of \mathbb{Z}_p extensions leading the reader to an understanding of modern research literature Many exercises are included The second edition includes a new chapter on the work of Thaine Kolyvagin and Rubin including a proof of the Main Conjecture There is also a chapter giving other recent developments including primality testing via Jacobi sums and Sinnott's proof of the vanishing of Iwasawa's f -invariant

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