

THE SIXTH MOMENT OF AUTOMORPHIC L -FUNCTIONS

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Abstract

We investigate the sixth moment of the family of L -functions associated to holomorphic modular forms on GL_2 with respect to a congruence subgroup $\Gamma_1(q)$. We improve on previous work and obtain an unconditional upper bound of the correct order of magnitude.

1. INTRODUCTION

Moments of L -functions are among the central objects of study in modern analytic number theory, and there is a vast literature on the subject. In this paper, we shall be concerned with a family of L -functions attached to automorphic forms on GL_2 . Specifically, we consider the sixth moment of L -functions associated to the family of holomorphic modular forms with respect to the congruence subgroup $\Gamma_1(q)$ (see [6] for definitions). Our work is motivated by the work of Djanković [3] and Chandee and Li [2] on this family. For a detailed introduction to this family of L -functions, see the introductions of the above two papers.

Let $S_k(\Gamma_1(q))$ denote the space of holomorphic cusp forms on $\Gamma_1(q)$. We assume $k \geq 3$ is an odd integer and q is prime (these assumptions are made mostly to eliminate oldforms). Then $S_k(\Gamma_1(q))$ is a Hilbert space with the Petersson's inner product

$$\langle f, g \rangle = \int_{\Gamma_1(q) \backslash \mathbb{H}} f(z) \overline{g(z)} y^{k-2} dx dy,$$

and

$$S_k(\Gamma_1(q)) = \bigoplus_{\chi \pmod{q}} S_k(\Gamma_0(q), \chi).$$

Let \mathcal{H}_χ be an orthogonal basis for $S_k(\Gamma_0(q), \chi)$ consisting of Hecke cusp forms, normalized so that the first Fourier coefficient is 1. For each $f \in \mathcal{H}_\chi$, we let $L(f, s)$ be the L -function associated to f , defined for $\operatorname{Re} s > 1$ as

$$L(f, s) = \sum_{n \geq 1} \frac{\lambda_f(n)}{n^s} = \prod_p \left(1 - \frac{\lambda_f(p)}{p^s} + \frac{\chi(p)}{p^{2s}} \right)^{-1},$$

where $\{\lambda_f(n)\}$ are the Hecke eigenvalues of f . In general, these satisfy the Hecke relation

$$\lambda_f(m)\lambda_f(n) = \sum_{d|(m,n)} \chi(d)\lambda_f\left(\frac{mn}{d^2}\right). \quad (1.1)$$

We define the completed L -function as

$$\Lambda\left(f, \frac{1}{2} + s\right) = \left(\frac{q}{4\pi^2}\right)^{\frac{s}{2}} \Gamma\left(s + \frac{k}{2}\right) L\left(f, \frac{1}{2} + s\right), \quad (1.2)$$

which satisfies the functional equation

$$\Lambda\left(f, \frac{1}{2} + s\right) = i^k \overline{\eta_f} \Lambda\left(\overline{f}, \frac{1}{2} - s\right)$$

Automorphic Functions

**W. J. Harvey (Ph. D.), William J.
Harvey, London Mathematical Society**

Automorphic Functions:

Automorphic Functions Lester R. Ford, 1929 Automorphic Functions Lester R. Ford, 2004 Lester Ford's book was the first treatise in English on automorphic functions. At the time of its publication in 1929, it was welcomed for its elegant treatment of groups of linear transformations and for the remarkably clear and explicit exposition throughout the book. Ford's extraordinary talent for writing has been memorialized in the prestigious award that bears his name. The book in the meantime has become a recognized classic. Ford's approach is primarily through analytic function theory. The first part of the book covers groups of linear transformations, especially Fuchsian groups, fundamental domains, and functions that are invariant under the groups, including the classical elliptic modular functions and Poincaré theta series. The second part of the book covers conformal mappings, uniformization, and connections between automorphic functions and differential equations with regular singular points, such as the hypergeometric equation.

An Introduction to the Theory of Automorphic Functions Lester R. Ford, 1915 **A Short Course in Automorphic Functions** Joseph Lehner, 2015-01-21 Concise treatment covers basics of Fuchsian groups, development of Poincaré series, and automorphic forms, and the connection between theory of Riemann surfaces with theories of automorphic forms and discontinuous groups. 1966 edition.

Introduction to the Arithmetic Theory of Automorphic Functions Gorō Shimura, 1971-08-21 The theory of automorphic forms is playing increasingly important roles in several branches of mathematics, even in physics, and is almost ubiquitous in number theory. This book introduces the reader to the subject and, in particular, to elliptic modular forms, with emphasis on their number-theoretical aspects. After two chapters geared toward elementary levels, there follows a detailed treatment of the theory of Hecke operators, which associate zeta functions to modular forms. At a more advanced level, complex multiplication of elliptic curves and abelian varieties is discussed. The main question is the construction of abelian extensions of certain algebraic number fields, which is traditionally called Hilbert's twelfth problem. Another advanced topic is the determination of the zeta function of an algebraic curve uniformized by modular functions, which supplies an indispensable background for the recent proof of Fermat's last theorem by Wiles.

Discontinuous Groups and Automorphic Functions Joseph Lehner, 1964-12-31 Much has been written on the theory of discontinuous groups and automorphic functions since 1880, when the subject received its first formulation. The purpose of this book is to bring together in one place both the classical and modern aspects of the theory and to present them clearly and in a modern language and notation. The emphasis in this book is on the fundamental parts of the subject. The book is directed to three classes of readers: graduate students approaching the subject for the first time; mature mathematicians who wish to gain some knowledge and understanding of automorphic function theory; and experts.

An Introduction to the Theory of Automorphic Functions Lester R. Ford, 2018-02-24 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact and remains as

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Hadamard,1999-01-01 This is the English translation of a volume originally published only in Russian and now out of print The book was written by Jacques Hadamard on the work of Poincare Poincare s creation of a theory of automorphic functions in the early 1880s was one of the most significant mathematical achievements of the nineteenth century It directly inspired the uniformization theorem led to a class of functions adequate to solve all linear ordinary differential equations and focused attention on a large new class of discrete groups It was the first significant application of non Euclidean geometry This unique exposition by Hadamard offers a fascinating and intuitive introduction to the subject of automorphic functions and illuminates its connection to differential equations a connection not often found in other texts INTRO TO THE THEORY OF AUTOMOR Lester R. 1886-1975 Ford,2016-08-29 Spectral Theory of Automorphic Functions A. B. Venkov,1983

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period conjectures of Shimura and the moment conjecture These conjectures are of central importance in contemporary number theory but have hitherto remained little discussed in expository form The book is divided into six short and relatively independent chapters each with its own theme and presents a motivated and lively account of the main topics providing professionals an overall view of the conjectures and providing researchers intending to specialize in the area a guide to the relevant literature Ze Li Dou and Qiao Zhang are both associate professors of Mathematics at Texas Christian University USA

Encyclopaedia of Mathematics (set) Michiel Hazewinkel, 1994-02-28 The Encyclopaedia of Mathematics is the most up to date authoritative and comprehensive English language work of reference in mathematics which exists today With over 7 000 articles from A integral to Zygmund Class of Functions supplemented with a wealth of complementary information and an index volume providing thorough cross referencing of entries of related interest the Encyclopaedia of Mathematics offers an immediate source of reference to mathematical definitions concepts explanations surveys examples terminology and methods The depth and breadth of content and the straightforward careful presentation of the information with the emphasis on accessibility makes the Encyclopaedia of Mathematics an immensely useful tool for all mathematicians and other scientists who use or are confronted by mathematics in their work The Encyclopaedia of Mathematics provides without doubt a reference source of mathematical knowledge which is unsurpassed in value and usefulness It can be highly

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On the Automorphic Functions of the Group $(0, 3; \mathbb{F}, \mathbb{F}, \mathbb{F}) \dots$ Richard Morris, 1906

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