

THE SIXTH MOMENT OF AUTOMORPHIC L -FUNCTIONS

JOSHUA STUCKY

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 $\text{Re } s > 1$ 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

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

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Lester R. Ford



Automorphic Functions:

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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.

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A Course in Fourier's Analysis and Periodogram Analysis for the Mathematical Laboratory George Alexander Carse, George Shearer, 1915

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Automorphic Forms and L-functions I David Ginzburg, Erez Lapid, David Soudry, 2009 This book is the first of two volumes which represent leading themes of current research in automorphic forms and representation theory of reductive groups over local fields Articles in this volume mainly represent global aspects of automorphic forms Among the topics are the trace formula functoriality representations of reductive groups over local fields the relative trace formula and periods of automorphic forms Rankin Selberg convolutions and L functions and p adic L functions The articles are written by leading researchers in the field and bring the reader advanced graduate students and researchers alike to the frontline of the vigorous research in these deep vital topics The companion volume Contemporary Mathematics Volume 489 is devoted to local aspects of automorphic forms

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

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