

# Spectral Theory of Automorphic Functions

# Spectral Theory Of Automorphic Functions

**Shigeru Kanemitsu, Haruo Tsukada**



## **Spectral Theory Of Automorphic Functions:**

**Spectral Theory of Automorphic Functions** A. B. Venkov, 1983

**Spectral Methods of Automorphic Forms**

Henryk Iwaniec, 2021-11-17 Automorphic forms are one of the central topics of analytic number theory. In fact, they sit at the confluence of analysis, algebra, geometry, and number theory. In this book, Henryk Iwaniec once again displays his penetrating insight, powerful analytic techniques, and lucid writing style. The first edition of this book was an underground classic, both as a textbook and as a respected source for results, ideas, and references. Iwaniec treats the spectral theory of automorphic forms as the study of the space of  $L^2$  functions on the upper half plane modulo a discrete subgroup. Key topics include Eisenstein series, estimates of Fourier coefficients, Kloosterman sums, the Selberg trace formula, and the theory of small eigenvalues. Henryk Iwaniec was awarded the 2002 Cole Prize for his fundamental contributions to number theory.

**Spectral Theory of Automorphic Functions** A. B. Venkov, 1981

**Spectral Theory of Automorphic Functions** A. B.

Venkov, 1990-10-31

**Introduction to the Spectral Theory of Automorphic Forms** Henryk Iwaniec, 1995

**Cohomological Theory of Dynamical Zeta Functions** Andreas Juhl, 2012-12-06

Dynamical zeta functions are associated to dynamical systems with a countable set of periodic orbits. The dynamical zeta functions of the geodesic flow of locally symmetric spaces of rank one are known also as the generalized Selberg zeta functions. The present book is concerned with these zeta functions from a cohomological point of view. Originally, the Selberg zeta function appeared in the spectral theory of automorphic forms and was suggested by an analogy between Weil's explicit formula for the Riemann zeta function and Selberg's trace formula. The purpose of the cohomological theory is to understand the analytical properties of the zeta functions on the basis of suitable analogs of the Lefschetz fixed point formula, in which periodic orbits of the geodesic flow take the place of fixed points. This approach is parallel to Weil's idea to analyze the zeta functions of projective algebraic varieties over finite fields on the basis of suitable versions of the Lefschetz fixed point formula. The Lefschetz formula formalism shows that the divisors of the rational Hasse-Weil zeta functions are determined by the spectra of Frobenius operators on  $l$ -adic cohomology.

[Scattering Theory for Automorphic Functions](#) Peter D. Lax, Ralph S.

Phillips, 1976. The application by Fadeev and Pavlov of the Lax-Phillips scattering theory to the automorphic wave equation

led Professors Lax and Phillips to reexamine this development within the framework of their theory. This volume sets forth the results of that work in the form of new or more straightforward treatments of the spectral theory of the Laplace-Beltrami operator over fundamental domains of finite area, the meromorphic character over the whole complex plane of the Eisenstein series, and the Selberg trace formula.

CONTENTS

- 1 Introduction
- 2 An abstract scattering theory
- 3 A modified theory for second order equations with an indefinite energy form
- 4 The Laplace-Beltrami operator for the modular group
- 5 The automorphic wave equation
- 6 Incoming and outgoing subspaces for the automorphic wave equations
- 7 The scattering matrix for the automorphic wave equation
- 8 The general case
- 9 The Selberg trace formula

**Spectral Theory of the Riemann**

**Zeta-Function** Yoichi Motohashi, 1997-09-11 The Riemann zeta function is one of the most studied objects in mathematics and is of fundamental importance. In this book based on his own research Professor Motohashi shows that the function is closely bound with automorphic forms and that many results from there can be woven with techniques and ideas from analytic number theory to yield new insights into and views of the zeta function itself. The story starts with an elementary but unabridged treatment of the spectral resolution of the non-Euclidean Laplacian and the trace formulas. This is achieved by the use of standard tools from analysis rather than any heavy machinery, forging a substantial aid for beginners in spectral theory as well. These ideas are then utilized to unveil an image of the zeta function first perceived by the author, revealing it to be the main gem of a necklace composed of all automorphic L-functions. In this book readers will find a detailed account of one of the most fascinating stories in the development of number theory, namely the fusion of two main fields in mathematics that were previously studied separately. Analytic Number Theory, Mathematical Analysis and Their Applications Nikolai Nikolaevich Bogoliubov, K. K. Mardzhanishvili, 1984 This Proceedings of the Steklov Institute of Mathematics together with the volume preceding it Volume 157 is a collection of papers dedicated to Academician I. M. Vinogradov on his ninetieth birthday. This volume contains original papers on various branches of mathematics: analytic number theory, algebra, partial differential equations, probability theory, and differential games. **Contributions to the Theory of Zeta-Functions** Shigeru Kanemitsu, Haruo Tsukada, 2014-12-15 This volume provides a systematic survey of almost all the equivalent assertions to the functional equations, zeta symmetry, which zeta functions satisfy, thus streamlining previously published results on zeta functions. The equivalent relations are given in the form of modular relations in Fox H-function series which at present include all that have been considered as candidates for ingredients of a series. The results are presented in a clear and simple manner for readers to readily apply without much knowledge of zeta functions. This volume aims to keep a record of the 150-year-old heritage starting from Riemann on zeta functions, which are ubiquitous in all mathematical sciences wherever there is a notion of the norm. It provides almost all possible equivalent relations to the zeta functions without requiring a reader's deep knowledge on their definitions. This can be an ideal reference book for those studying zeta functions. **Scattering Theory, Revised Edition** Peter D. Lax, Ralph S. Phillips, 1990-02-22 This revised edition of a classic book which established scattering theory as an important and fruitful area of research reflects the wealth of new results discovered in the intervening years. This new revised edition should continue to inspire researchers to expand the application of the original ideas proposed by the authors. **Analytic Number Theory** Henryk Iwaniec, Emmanuel Kowalski, 2021-10-14 Analytic Number Theory distinguishes itself by the variety of tools it uses to establish results. One of the primary attractions of this theory is its vast diversity of concepts and methods. The main goals of this book are to show the scope of the theory both in classical and modern directions and to exhibit its wealth and prospects, beautiful theorems and powerful techniques. The book is written with graduate students in mind and the authors nicely balance clarity, completeness, and generality. The

exercises in each section serve dual purposes some intended to improve readers understanding of the subject and others providing additional information Formal prerequisites for the major part of the book do not go beyond calculus complex analysis integration and Fourier series and integrals In later chapters automorphic forms become important with much of the necessary information about them included in two survey chapters

*Groups Acting on Hyperbolic Space* Juergen Elstrodt, Fritz Grunewald, Jens Mennicke, 2013-03-09 This book is concerned with discontinuous groups of motions of the unique connected and simply connected Riemannian 3 manifold of constant curvature 1 which is traditionally called hyperbolic 3 space This space is the 3 dimensional instance of an analogous Riemannian manifold which exists uniquely in every dimension  $n \geq 2$  The hyperbolic spaces appeared first in the work of Lobachevski in the first half of the 19th century Very early in the last century the group of isometries of these spaces was studied by Steiner when he looked at the group generated by the inversions in spheres The geometries underlying the hyperbolic spaces were of fundamental importance since Lobachevski Bolyai and Gau had observed that they do not satisfy the axiom of parallels Already in the classical works several concrete coordinate models of hyperbolic 3 space have appeared They make explicit computations possible and also give identifications of the full group of motions or isometries with well known matrix groups One such model due to H Poincare is the upper 3 half space  $\mathbb{H}^3$  in  $\mathbb{R}^3$  The group of isometries is then identified with an extension of index 2 of the group  $\text{PSL}(2, \mathbb{C})$

**Teichmüller's Moduli Problem of the Once Punctured Tori and the Spectral Theory of Automorphic Functions** Roland Schmidt, 2000

**Selberg Zeta and Theta Functions** Ulrich Bunke, Martin Olbrich, 1995

The authors give a self contained exposition of the theory of Selberg zeta and theta functions for bundles on compact locally symmetric spaces of rank 1 The connection between these functions and the spectrum of certain elliptic differential operators is provided by a version of the Selberg trace formula The theta function is a regularized trace of the wave group Originally defined geometrically the Selberg zeta function has a representation in terms of regularized determinants This leads to a complete description of its singularities These results are employed in order to establish a functional equation and further properties of the Ruelle zeta function A couple of explicit examples is worked out Additional chapters are devoted to the theta function of Riemannian surfaces with cusps and to alternative descriptions of the singularities of the Selberg zeta function in terms of Lie algebra and group cohomology

Mathematics of the USSR: Izvestija, 1991

*Automorphic Functions* Lester R. Ford, 1929

Mathematical Reviews, 2005

Soviet Mathematics - Doklady, 1991

**Algebraic Analysis, Geometry, and Number Theory** Japan-U.S. Mathematics Institute, 1989

## Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Spectral Theory Of Automorphic Functions**

In some sort of inundated with screens and the cacophony of instantaneous interaction, the profound energy and mental resonance of verbal beauty frequently diminish in to obscurity, eclipsed by the regular onslaught of sound and distractions. However, located within the musical pages of **Spectral Theory Of Automorphic Functions**, a fascinating perform of fictional splendor that impulses with organic thoughts, lies an memorable journey waiting to be embarked upon. Penned by a virtuoso wordsmith, that magical opus instructions readers on an emotional odyssey, gently revealing the latent potential and profound affect embedded within the elaborate web of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is main styles, dissect its captivating publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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