

12

The classical theory of automorphic forms for $GL(n, \mathbb{R})$

In this chapter we present a classical description of the theory of automorphic forms of arbitrary weight and level for the group $GL(n, \mathbb{R})$. This generalizes the theory of K_∞ -fixed automorphic forms presented in [Goldfeld, 2006]. For the reader who is mainly interested in the theory of automorphic representations, this chapter may be skipped on a first reading.

12.1 Iwasawa decomposition for $GL(n, \mathbb{R})$

Definition 12.1.1 (Generalized upper half plane) Let $n \geq 2$. The generalized upper half plane $\mathfrak{h}^n$ associated to $GL(n, \mathbb{R})$ is defined to be the set of all $n \times n$ matrices of the form $z = x \cdot y$ where

$$x = \begin{pmatrix} 1 & x_{1,2} & x_{1,3} & \cdots & x_{1,n} \\ & 1 & x_{2,3} & \cdots & x_{2,n} \\ & & \ddots & & \vdots \\ & & & 1 & x_{n-1,n} \\ & & & & 1 \end{pmatrix}, \quad y = \begin{pmatrix} y'_{n-1} & & & & \\ & y'_{n-2} & & & \\ & & \ddots & & \\ & & & y'_1 & \\ & & & & 1 \end{pmatrix},$$

with $x_{i,j} \in \mathbb{R}$ for $1 \leq i < j \leq n$ and $y'_i > 0$ for $1 \leq i \leq n-1$.

To simplify later formulae and notation in this book, we will always express y in the form:

$$y = \begin{pmatrix} y_1 y_2 \cdots y_{n-1} & & & \\ & y_1 y_2 \cdots y_{n-2} & & \\ & & \ddots & \\ & & & y_1 & \\ & & & & 1 \end{pmatrix},$$

with $y_i > 0$ for $1 \leq i \leq n-1$. Note that this can always be done since $y'_i \neq 0$ for $1 \leq i \leq n-1$.

Representation Theory And Automorphic Functions

Representation Theory And Automorphic Forms

Roger Howe, Jian-Shu Li



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Automorphic Representations and L-Functions for the General Linear Group: Volume 2 Dorian Goldfeld, Joseph Hundley, 2011-04-21 This graduate level textbook provides an elementary exposition of the theory of automorphic representations and L functions for the general linear group in an adelic setting. Definitions are kept to a minimum and repeated when reintroduced so that the book is accessible from any entry point and with no prior knowledge of representation theory. The book includes concrete examples of global and local representations of GL_n and presents their associated L functions. In Volume 1 the theory is developed from first principles for GL_1 then carefully extended to GL_2 with complete detailed proofs of key theorems. Several proofs are presented for the first time including Jacquet's simple and elegant proof of the tensor product theorem. In Volume 2 the higher rank situation of GL_n is given a detailed treatment. Containing numerous exercises by Xander Faber this book will motivate students and researchers to begin working in this fertile field of research.

Automorphic Forms, Representation Theory and Arithmetic G. Harder, K. Iwasawa, S.

Gelbart, 2014-09-01 *Representation Theory and Automorphic Forms* T. N. Bailey, Anthony W. Knap, 1997 The lectures from a course in the representation theory of semi simple groups automorphic forms and the relations between them The purpose is to help analysts make systematic use of Lie groups in work on harmonic analysis differential equations and mathematical physics and to provide number theorists with the representation theoretic input to Wiles's proof of Fermat's Last Theorem Begins with an introductory treatment of structure theory and ends with the current status of functionality Annotation copyrighted by Book News Inc Portland OR Representation Theory and Automorphic Forms Paul Sally, Nolan R. Wallach, The eleven papers collected in this volume appeared in the Bulletin of the AMS during the years 1955 to 1984 and share the theme of the representation theory of locally compact groups and its numerous applications The papers provide a glimpse at the historical development of a subject which has expanded into many areas of mathematics during the past forty years In addition this volume provides easy access to a useful set of references Chronicling some of the most important developments in papers by some of the field's major figures this book will appeal to specialists in representation theory as well as to researchers in those areas of mathematics in which representation theory plays an important role

Contributions to Automorphic Forms, Geometry, and Number Theory Haruzo Hida, Dinakar

Ramakrishnan, Freydoon Shahidi, 2004-03-11 In Contributions to Automorphic Forms Geometry and Number Theory Haruzo Hida Dinakar Ramakrishnan and Freydoon Shahidi bring together a distinguished group of experts to explore automorphic forms principally via the associated L functions representation theory and geometry Because these themes are at the cutting edge of a central area of modern mathematics and are related to the philosophical base of Wiles proof of Fermat's last theorem this book will be of interest to working mathematicians and students alike Never previously published the contributions to this volume expose the reader to a host of difficult and thought provoking problems Each of the extraordinary and noteworthy mathematicians in this volume makes a unique contribution to a field that is currently seeing explosive growth New and powerful results are being proved radically and continually changing the field's make up Contributions to Automorphic Forms Geometry and Number Theory will likely lead to vital interaction among researchers and also help prepare students and other young mathematicians to enter this exciting area of pure mathematics Contributors Jeffrey Adams Jeffrey D Adler James Arthur Don Blasius Siegfried Boecherer Daniel Bump William Casselman Laurent Clozel James Cogdell Laurence Corwin Solomon Friedberg Masaaki Furusawa Benedict Gross Thomas Hales Joseph Harris Michael Harris Jeffrey Hoffstein Herv Jacquet Dihua Jiang Nicholas Katz Henry Kim Victor Kreiman Stephen Kudla Philip Kutzko V Lakshmibai Robert Langlands Erez Lapid Ilya Piatetski Shapiro Dipendra Prasad Stephen Rallis Dinakar Ramakrishnan Paul Sally Freydoon Shahidi Peter Sarnak Rainer Schulze Pillot Joseph Shalika David Soudry Ramin Takloo Bigash Yuri Tschinkel Emmanuel Ullmo Marie France Vigneras Jean-Loup Waldspurger **Automorphic Forms and**

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recent years In particular important instances of Langlands functoriality have been established This volume presents three weeks of lectures from the IAS Park City Mathematics Institute Summer School on automorphic forms and their applications It addresses some of the general aspects of automorphic forms as well as certain recent advances in the field The book starts with the lectures of Borel on the basic theory of automorphic forms which lay the foundation for the lectures by Cogdell and Shahidi on converse theorems and the Langlands Shahidi method as well as those by Clozel and Li on the Ramanujan conjectures and graphs The analytic theory of GL 2 forms and L functions are the subject of Michel s lectures while Terras covers arithmetic quantum chaos The volume also includes a chapter by Vogan on isolated unitary representations which is related to the lectures by Clozel This volume is recommended for independent study or an advanced topics course It is suitable for graduate students and researchers interested in automorphic forms and number theory 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 Automorphic Forms Anton

Deitmar,2012-08-29 Automorphic forms are an important complex analytic tool in number theory and modern arithmetic geometry They played for example a vital role in Andrew Wiles s proof of Fermat s Last Theorem This text provides a concise introduction to the world of automorphic forms using two approaches the classic elementary theory and the modern point of view of adeles and representation theory The reader will learn the important aims and results of the theory by focussing on its essential aspects and restricting it to the base field of rational numbers Students interested for example in arithmetic geometry or number theory will find that this book provides an optimal and easily accessible introduction into this topic

L-Functions and Automorphic Forms Jan Hendrik Bruinier,Winfried Kohnen,2018-02-22 This book presents a collection of carefully refereed research articles and lecture notes stemming from the Conference Automorphic Forms and L Functions held at the University of Heidelberg in 2016 The theory of automorphic forms and their associated L functions is one of the central research areas in modern number theory linking number theory arithmetic geometry representation theory and complex analysis in many profound ways The 19 papers cover a wide range of topics within the scope of the conference including automorphic L functions and their special values p adic modular forms Eisenstein series Borcherds products automorphic periods and many more **Automorphic Forms, Representation Theory and Arithmetic** S. Gelbart,G.

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fitting tribute to the originality depth and influence of Howe's mathematical work. The range and diversity of the topics will appeal to a broad audience of research mathematicians and graduate students interested in symmetry and its profound applications. Sample Chapter's Foreword 21 KB Chapter 1 The Theta Correspondence Over R 342 KB Contents The Theta Correspondence over R J Adams The Heisenberg Group $SL(3, R)$ and Rigidity A Iap et al Pfaffians and Strategies for Integer Choice Games R Evans When is an L Function Non Vanishing in Part of the Critical Strip S Gelbart Cohomological Automorphic Forms on Unitary Groups II Period Relations and Values of L Functions M Harris The Inversion Formula and Holomorphic Extension of the Minimal Representation of the Conformal Group T Kobayashi Classification des S_r r ies Discretes pour Certains Groupes Classiques p Adiques C Mœglin Some Algebras of Essentially Compact Distributions of a Reductive p Adic Group A Moy Annihilators of Generalized Verma Modules of the Scalar Type for Classical Lie Algebras T Oshima Branching to a Maximal Compact Subgroup D A Vogan Jr Small Semisimple Subalgebras of Semisimple Lie Algebras J F Willenbring G J Zuckerman Readership Graduate students and research mathematicians in harmonic analysis group representations automorphic forms and invariant theory

Relative Aspects in Representation Theory, Langlands Functoriality and Automorphic Forms Volker Heiermann, Dipendra Prasad, 2018-10-01 This volume presents a panorama of the diverse activities organized by V Heiermann and D Prasad in Marseille at the CIRM for the Chaire Morlet event during the first semester of 2016. It assembles together expository articles on topics which previously could only be found in research papers. Starting with a very detailed article by P Baumann and S Riche on the geometric Satake correspondence, the book continues with three introductory articles on distinguished representations due to P Broussous, F Murnaghan and O Offen, an expository article of I Badulescu on the Jacquet-Langlands correspondence, a paper of J Arthur on functoriality and the trace formula in the context of Beyond Endoscopy taken from the Simons Proceedings, an article of W W Li attempting to generalize Godement-Jacquet theory, and a research paper of C Mœglin and D Renard applying the trace formula to the local Langlands classification for classical groups. The book should be of interest to students as well as professional researchers working in the broad area of number theory and representation theory. Automorphic Forms and Representations Daniel Bump, 1998-11-28 This book takes advanced graduate students from the foundations to topics on the research frontier.

Representation Theory, Number Theory, and Invariant Theory Jim Cogdell, Ju-Lee Kim, Chen-Bo Zhu, 2017-10-19 This book contains selected papers based on talks given at the Representation Theory Number Theory and Invariant Theory conference held at Yale University from June 1 to June 5, 2015. The meeting and this resulting volume are in honor of Professor Roger Howe on the occasion of his 70th birthday, whose work and insights have been deeply influential in the development of these fields. The speakers who contributed to this work include Roger Howe's doctoral students Roger Howe himself and other world-renowned mathematicians. Topics covered include automorphic forms, invariant theory, representation theory of reductive groups over local fields, and related subjects. **Elements of the Representation**

Theory of the Jacobi Group Rolf Berndt, Ralf Schmidt, 2012-01-05 Combining algebraic groups and number theory this volume gathers material from the representation theory of this group for the first time doing so for both local Archimedean and non Archimedean cases as well as for the global number field case [Automorphic Forms and Galois Representations](#)

Fred Diamond, Payman L. Kassaei, Minhyong Kim, 2014-10-16 Part one of a two volume collection exploring recent developments in number theory related to automorphic forms and Galois representations *Forty Years Of Algebraic Groups, Algebraic Geometry, And Representation Theory In China: In Memory Of The Centenary Year Of Xihua Cao's Birth*

Jie Du, Jianpan Wang, Lei Lin, 2022-10-21 Professor Xihua Cao 1920 2005 was a leading scholar at East China Normal University ECNU and a famous algebraist in China His contribution to the Chinese academic circle is particularly the formation of a world renowned ECNU School in algebra covering research areas include algebraic groups quantum groups algebraic geometry Lie algebra algebraic number theory representation theory and other hot fields In January 2020 in order to commemorate Professor Xihua Cao s centenary birthday East China Normal University held a three day academic conference Scholars at home and abroad gave dedications or delivered lectures in the conference This volume originates from the memorial conference collecting the dedications of scholars reminiscences of family members and 16 academic articles written based on the lectures in the conference covering a wide range of research hot topics in algebra The book shows not only scholars respect and memory for Professor Xihua Cao but also the research achievements of Chinese scholars at home and abroad

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Table of Contents Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms

1. Understanding the eBook Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
 - The Rise of Digital Reading Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
 - Advantages of eBooks Over Traditional Books
2. Identifying Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
 - User-Friendly Interface
4. Exploring eBook Recommendations from Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
 - Personalized Recommendations
 - Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms User

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- ePub, PDF, MOBI, and More
- Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms Compatibility with Devices
- Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
- Highlighting and Note-Taking Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
- Interactive Elements Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms

8. Staying Engaged with Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Representation Theory And Automorphic Functions Representation Theory And

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9. Balancing eBooks and Physical Books Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
 - Setting Reading Goals Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
 - Fact-Checking eBook Content of Representation Theory And Automorphic Functions Representation Theory And Automorphic Forms
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements
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