

# MEMOIRS

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## Matching of Orbi-tal Integrals on $GL(4)$ and $U(2,2)$

Yves Frenkel



# Matching Of Orbital Integrals On Gl4 And Gsp

**Magdy Assem**



## Matching Of Orbital Integrals On $GL(4)$ And $GSp(2)$ :

**Matching of Orbital Integrals on  $GL(4)$  and  $GSp(2)$**  Yuval Zvi Flicker, 1999 The trace formula is the most powerful tool currently available to establish liftings of automorphic forms as predicted by Langlands principle of functionality The geometric part of the trace formula consists of orbital integrals and the lifting is based on the fundamental lemma The latter is an identity of the relevant orbital integrals for the unit elements of the Hecke algebras This volume concerns a proof of the fundamental lemma in the classically most interesting case of Siegel modular forms namely the symplectic group  $Sp(2)$  These orbital integrals are compared with those on  $GL(4)$  twisted by the transpose inverse involution The technique of proof is elementary Compact elements are decomposed into their absolutely semi simple and topologically unipotent parts also in the twisted case a double coset decomposition of the form  $H G K$  where  $H$  is a subgroup containing the centralizer plays a key role

**Matching of Orbital Integrals on  $GL(4)$  and  $GSp(2)$**  Yuval Zvi Flicker, Y Z Flicker, 2014-09-11 The trace formula is the most powerful tool currently available to establish liftings of automorphic forms as predicted by Langlands principle of functionality The geometric part of the trace formula consists of orbital integrals and the lifting is based on the fundamental lemma The latter is an identity of the relevant orbital integrals for the unit elements of the Hecke algebras This volume concerns a proof of the fundamental lemma in the classically most interesting case of Siegel modular forms namely the symplectic group  $Sp(2)$  These orbital integrals are compared with those on  $GL(4)$  twisted by the transpose inverse involution The technique of proof is elementary Compact elements are decomposed into their absolutely semi simple and topologically unipotent parts also in the twisted case a double coset decomposition plays a key role The Fundamental Lemma for the Shalika Subgroup of  $GL(4)$  Solomon Friedberg, Hervé Jacquet, 1996 The authors establish the fundamental lemma for a relative trace formula The trace formula compares generic automorphic representations of  $GL(4)$  with automorphic representations of  $GL(4)$  which are distinguished with respect to a character of the Shalika subgroup the subgroup of matrices of  $2 \times 2$  block form  $\begin{pmatrix} g & \\ & g \end{pmatrix}$  over  $GL(2)$  and  $O$  over  $GL(2)$  The fundamental lemma giving the equality of the orbital integrals of the unit elements of the respective Hecke algebras amounts to a comparison of certain exponential sums arising from these two different groups

**Homogeneous Integral Table Algebras of Degree Three: A Trilogy** Harvey I. Blau, 2000 Homogeneous integral table algebras of degree three with a faithful real element The algebras of the title are classified to exact isomorphism that is the sets of structure constants which arise from the given basis are completely determined Other results describe all possible extensions pre images with a faithful element which is not necessarily real of certain simple homogeneous integral table algebras of degree three On antisymmetric homogeneous integral table algebras of degree three This paper determines the homogeneous integral table algebras of degree three in which the given basis has a faithful element and has no nontrivial elements that are either real symmetric or linear and where an additional hypothesis is

satisfied It is shown that all such bases must occur as the set of orbit sums in the complex group algebra of a finite abelian group under the action of a fixed point free automorphism of order three Homogeneous integral table algebras of degree three with no nontrivial linear elements The algebras of the title which also have a faithful element are determined to exact isomorphism All of the simple homogeneous integral table algebras of degree three are displayed and the commutative association schemes in which all the nondiagonal relations have valency three and where some relation defines a connected graph on the underlying set are classified up to algebraic isomorphism

*Uniform Rectifiability and Quasiminimizing Sets of Arbitrary Codimension* Guy David, Stephen Semmes, 2000 This book is intended for graduate students and research mathematicians interested in calculus of variations and optimal control optimization

Tree-like Structures Arising from Continua and Convergence Groups Brian Hayward Bowditch, 1999 This book is intended for graduate students and research mathematicians working in group theory and generalizations

*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 Casselmann 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 Lakshmi Bai 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 Vignéras Jean-Loup Waldspurger

Cas Du Groupe  $GSp_4(4)$  Jacques Tilouine, 2005 Ce volume fait suite au volume 298 consacré aux Formes Automorphes Il traite un sujet plus restreint que le précédent puisqu'il est exclusivement consacré aux représentations automorphes pour le groupe  $GSp_4$  la plupart du temps sur le corps des rationnels Il traite de questions géométriques cohomologie des variétés de Siegel arithmétiques construction et étude des représentations galoisiennes associées aux formes cuspidales cohomologiques et d'analyse harmonique lemme

fondamental torde avec poids Toutes ces questions avaient t voqu es plus ou moins directement lors du Semestre Automorphe de Paris en 2000 mais il s agit en g n ral de d veloppements ult rieurs au Semestre lui m me □□□□□□□□ ,1996

**Mathematical Reviews** ,2001 **Reviews in Number Theory, 1984-96** ,1997 These six volumes include approximately 20 000 reviews of items in number theory that appeared in Mathematical Reviews MR between 1984 and 1996 This is the third such set of volumes in number theory the first was edited by W J LeVeque and included reviews from 1940 1972 the second was edited by R K Guy and appeared in 1984 The Cumulative Book Index ,1999 American Book Publishing Record ,1999 *Dissertation Abstracts International* ,2006 **Comptes rendus de l'Académie des sciences** ,1999

**The Fundamental Lemma for the Shalika Subgroup of  $GL(4)$**  Solomon Friedberg,Hervé Jacquet,1996-12-09 The authors establish the fundamental lemma for a relative trace formula This fundamental lemma asserts that pairs of local orbital integrals one integral of each pair arising on  $GSp(4)$  and the other on  $GL(4)$  are equal The orbital integrals in question are exponential sums and the fundamental lemma may also be described as a matching of Kloosterman and relative Kloosterman sums on the two different groups To show that these are equal for each relevant Weyl groups element the authors compute the Mellin transforms and match them in all cases The authors also describe the L function heuristics which motivate this work its possible generalizations and an application of the relative trace formula to the study of L packets

**Orbital Integrals on  $GL_3$**  Robert Edward Kottwitz,1977 **Relation of Orbital Integrals on  $So(5)$  and  $Pgl(2)$**  Dmitrii Zinoviev,1997 **On Stability and Endoscopic Transfer of Unipotent Orbital Integrals on P-adic Symplectic Groups** Magdy Assem,1998-06-29 The theory of endoscopy is an intriguing part of the Langlands program as it provides a way to attack the functoriality principle of Langlands for certain pairs of reductive groups  $G \rightarrow H$  in which  $H$  is what is known as an endoscopic group for  $G$  The starting point for this method is a close study of the relationship of orbital integrals on  $G$  with stable orbital integrals on  $H$  This volume investigates unipotent orbital integrals of spherical functions on p adic symplectic groups The results are then put into a conjectural framework that predicts for split classical groups which linear combinations of unipotent orbital integrals are stable distributions *The Subregular Germ of Orbital Integrals* Thomas Callister Hales,1992-01-01 Langlands theory predicts deep relationships between representations of different reductive groups over a local or global field The trace formula attempts to reduce many such relationships to problems concerning conjugacy classes and integrals over conjugacy classes orbital integrals on p acid groups It is possible to reformulate these problems as ones in algebraic geometry by associating a variety  $Y$  to each reductive group Using methods of Igusa the geometrical properties of the variety give detailed information about the asymptotic behaviour of integrals over conjugacy classes This monograph constructs the variety  $Y$  and describes its geometry As an application the author uses the variety to give formulas for the leading terms regular and subregular germs in the asymptotic expansion of orbital integrals over p acid fields The final chapter shows how the properties of the variety may be used to confirm some predictions of Langlands theory

on orbital integrals Shalika germs and endoscopy

## **Matching Of Orbital Integrals On G14 And Gsp** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Matching Of Orbital Integrals On G14 And Gsp**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Matching Of Orbital Integrals On G14 And Gsp**

1. Understanding the eBook Matching Of Orbital Integrals On G14 And Gsp
  - The Rise of Digital Reading Matching Of Orbital Integrals On G14 And Gsp
  - Advantages of eBooks Over Traditional Books
2. Identifying Matching Of Orbital Integrals On G14 And Gsp
  - 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 Matching Of Orbital Integrals On G14 And Gsp
  - User-Friendly Interface
4. Exploring eBook Recommendations from Matching Of Orbital Integrals On G14 And Gsp
  - Personalized Recommendations
  - Matching Of Orbital Integrals On G14 And Gsp User Reviews and Ratings
  - Matching Of Orbital Integrals On G14 And Gsp and Bestseller Lists

5. Accessing Matching Of Orbital Integrals On Gl4 And Gsp Free and Paid eBooks
  - Matching Of Orbital Integrals On Gl4 And Gsp Public Domain eBooks
  - Matching Of Orbital Integrals On Gl4 And Gsp eBook Subscription Services
  - Matching Of Orbital Integrals On Gl4 And Gsp Budget-Friendly Options
6. Navigating Matching Of Orbital Integrals On Gl4 And Gsp eBook Formats
  - ePub, PDF, MOBI, and More
  - Matching Of Orbital Integrals On Gl4 And Gsp Compatibility with Devices
  - Matching Of Orbital Integrals On Gl4 And Gsp Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Matching Of Orbital Integrals On Gl4 And Gsp
  - Highlighting and Note-Taking Matching Of Orbital Integrals On Gl4 And Gsp
  - Interactive Elements Matching Of Orbital Integrals On Gl4 And Gsp
8. Staying Engaged with Matching Of Orbital Integrals On Gl4 And Gsp
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Matching Of Orbital Integrals On Gl4 And Gsp
9. Balancing eBooks and Physical Books Matching Of Orbital Integrals On Gl4 And Gsp
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Matching Of Orbital Integrals On Gl4 And Gsp
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Matching Of Orbital Integrals On Gl4 And Gsp
  - Setting Reading Goals Matching Of Orbital Integrals On Gl4 And Gsp
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Matching Of Orbital Integrals On Gl4 And Gsp
  - Fact-Checking eBook Content of Matching Of Orbital Integrals On Gl4 And Gsp
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning



- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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