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## Matching of Orbiat Integrals on $GL(4)$ and $GL(2)$

Yves L. Flicker



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# Matching Of Orbital Integrals On $GL_4$ And $GSp$

**Solomon Friedberg, Hervé Jacquet**



## 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  $H \backslash G / K$  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  $GS$   $p(4)$  with automorphic representations of  $GS(4)$  which are distinguished with respect to a character of the Shalika subgroup the subgroup of matrices of  $2 \times 2$  block form  $\begin{pmatrix} g & 0 \\ 0 & X \end{pmatrix}$  over  $GS$  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

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Treelike 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 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

Cas Du Groupe  $GS_{p^4}(4)$  Jacques Tilouine, 2005 Ce volume fait suite au volume 298 consacr aux Formes Automorphes Il traite un sujet plus restreint que le precedent puisqu'il est exclusivement consacr aux representations automorphes pour le groupe  $GS_4$  la plupart du temps sur le corps des rationnels Il traite de questions geometriques cohomologie des variétés de Siegel arithmetiques construction et étude des representations 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  $GS_{p,4}$  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  $p$  adic 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  $p$  adic 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

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