L-Functions and the Oscillator Representation (Lecture Notes in Mathematics)

Rallis, Stephen

L Functions And The Oscillator Representation

Angelo M. Anile,Yvonne Choquet-Bruhat

L Functions And The Oscillator Representation:

[L-Functions and the Oscillator Representation](#) Stephen Rallis,2006-11-15 These notes are concerned with showing the relation between L functions of classical groups F1 in particular and F2 functions arising from the oscillator representation of the dual reductive pair F1 F3 O Q The problem of measuring the nonvanishing of a F2 correspondence by computing the Petersson inner product of a F2 lift from F1 to O Q is considered This product can be expressed as the special value of an L function associated to the standard representation of the L group of F1 times a finite number of local Euler factors measuring whether a given local representation occurs in a given oscillator representation The key ideas used in proving this are i new Rankin integral representations of standard L functions ii see saw dual reductive pairs and iii Siegel Weil formula The book addresses readers who specialize in the theory of automorphic forms and L functions and the representation theory of Lie groups N **Automorphic Representations, L-Functions and Applications: Progress and Prospects** James W. Cogdell,Dihua Jiang,Stephen S. Kudla,David Soudry,Robert J. Stanton,2011-06-24 This volume is the proceedings of the conference on Automorphic Representations L functions and Applications Progress and Prospects held at the Department of Mathematics of The Ohio State University March 27 30 2003 in honor of the 60th birthday of Steve Rallis The theory of automorphic representations automorphic L functions and their applications to arithmetic continues to be an area of vigorous and fruitful research The contributed papers in this volume represent many of the most recent developments and directions including Rankin Selberg L functions Bump Ginzburg Jiang Rallis Lapid Rallis the relative trace formula Jacquet Mao Rallis automorphic representations Gan Gurevich Ginzburg Rallis Soudry representation theory of p adic groups Baruch Kudla Rallis M glin Cogdell Piatetski Shapiro Shahidi p adic methods Harris Li Skinner Vigneras and arithmetic applications Chinta Friedberg Hoffstein The survey articles by Bump on the Rankin Selberg method and by Jacquet on the relative trace formula should be particularly useful as an introduction to the key ideas about these important topics This volume should be of interest both to researchers and students in the area of automorphic representations as well as to mathematicians in other areas interested in having an overview of current developments in this important field **L-Functions and Arithmetic** J. Coates,Martin J. Taylor,1991-02-22 Aimed at presenting nontechnical explanations all the essays in this collection of papers from the 1989 LMS Durham Symposium on L functions are the contributions of renowned algebraic number theory specialists **Automorphic Forms, Representations and L-Functions** A. Borel,W. Casselman,1979 Contains sections on Reductive groups representations Automorphic forms and representations **Integral Representations of L-functions and Siegel-Weil-Kudla-Rallis Formulas** Ürtiş Çetin,2002 [Automorphic Forms, Representations and L-Functions](#) Armand Borel,W. Casselman,American Mathematical Society,1979-06-30 Part 2 contains sections on Automorphic representations and L functions Arithmetical algebraic geometry and L functions [Quantum Probability and Applications IV](#) Luigi Accardi,Wilhelm v. Waldenfels,2006-11-14 This volume the fourth of the quantum probability series collects part of

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   Relativistic Fluid Dynamics Angelo M. Anile,Yvonne Choquet-Bruhat,2006-11-14 In recent years the subject of relativistic fluid dynamics has found substantial applications in astrophysics and cosmology theories of gravitational collapse models of neutron stars galaxy formation as well as in plasma physics relativistic fluids have been considered as models for relativistic particle beams and nuclear physics relativistic fluids are currently used in the analysis of the heavy ion reactions Modern methods of analysis and differential geometry have now also been introduced The International C I M E Course brought together expertise and interest from several areas astrophysics plasma physics nuclear physics mathematical methods to create an appropriate arena for discussion and exchange of ideas The main lecture courses introduced the most significant aspects of the subject and were delivered by leading specialists The notes of these have been written up for this volume and constitute an up to date and thorough treatment of these topics Several contributions from the seminars on specialized topics of complementary interest to the courses are also included   *Stochastic Analysis and Related Topics II* Hayri Korezlioglu,Ali S. Ustunel,2006-11-14 The Second Silivri Workshop functioned as a short summer school and a working

conference producing lecture notes and research papers on recent developments of Stochastic Analysis on Wiener space The topics of the lectures concern short time asymptotic problems and anticipative stochastic differential equations Research papers are mostly extensions and applications of the techniques of anticipative stochastic calculus **Complex Analysis** Steven G. Krantz,2006-11-14 This conference gathered together a small group of people with similar interests in the geometric function theory of several complex variables While the speeches were of a specialized nature the papers in the proceedings are largely of a survey and speculative nature The volume is intended to serve both students and researchers as an invitation to active new areas of research The level of the writing has been intentionally set in such a way that the papers will be accessible to a broad audience *Number Theory* Michel Waldschmidt,1998 To observe the tenth anniversary of the founding of the Ramanujan Mathematical Society an international conference on Discrete Mathematics and Number Theory was held in January 1996 in Tiruchirapalli India This volume contains proceedings from the number theory component of that conference Papers are divided into four groups arithmetic algebraic geometry automorphic forms elementary and analytic number theory and transcendental number theory This work deals with recent progress in current aspects of number theory and covers a wide variety of topics *Explicit Constructions of Automorphic L-Functions* Stephen Gelbart,Ilya Piatetski-Shapiro,Stephen Rallis,2006-11-15 The goal of this research monograph is to derive the analytic continuation and functional equation of the L functions attached by R P Langlands to automorphic representations of reductive algebraic groups The first part of the book by Piatetski Shapiro and Rallis deals with L functions for the simple classical groups the second part by Gelbart and Piatetski Shapiro deals with non simple groups of the form G GL n with G a quasi split reductive group of split rank n The method of proof is to construct certain explicit zeta integrals of Rankin Selberg type which interpolate the relevant Langlands L functions and can be analyzed via the theory of Eisenstein series and intertwining operators This is the first time such an approach has been applied to such general classes of groups The flavor of the local theory is decidedly representation theoretic and the work should be of interest to researchers in group representation theory as well as number theory **International Congress of Mathematicians, Kyoto, Japan, August 21-29,1990: Plenary lectures, section lectures, ICMI lectures** ,1990 *The Gross-Zagier Formula on Shimura Curves* Xinyi Yuan,Shou-wu Zhang,Wei Zhang,2013 This comprehensive account of the Gross Zagier formula on Shimura curves over totally real fields relates the heights of Heegner points on abelian varieties to the derivatives of L series The formula will have new applications for the Birch and Swinnerton Dyer conjecture and Diophantine equations The book begins with a conceptual formulation of the Gross Zagier formula in terms of incoherent quaternion algebras and incoherent automorphic representations with rational coefficients attached naturally to abelian varieties parametrized by Shimura curves This is followed by a complete proof of its coherent analogue the Waldspurger formula which relates the periods of integrals and the special values of L series by means of Weil representations The Gross Zagier formula is then reformulated in terms of

incoherent Weil representations and Kudla s generating series Using Arakelov theory and the modularity of Kudla s generating series the proof of the Gross Zagier formula is reduced to local formulas The Gross Zagier Formula on Shimura Curves will be of great use to students wishing to enter this area and to those already working in it **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 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 Vign ras Jean Loup Waldspurger **Selected Works of Ilya Piatetski-Shapiro** Il'i͡a͡ Iosifovich Pi͡a͡tet͡s͡kiĭ-Shapiro,2000 Piatetski Shapiro himself with the consultation of the editors selected these 162 papers some of which appear in English for the first time Together they represent almost 50 years of his service to mathematics and though arranged by subject are nearly in chronological order Each of the sections conclude with commentary on the entire work of Piatetski Shapiro s in that area including related developments Following his autobiographical Etude on life and automorphic forms in the Soviet Union sections cover early papers in harmonic analysis and number theory automorphic functions and discrete groups bounded homogeneous domains applied mathematics algebraic geometry automorphic L functions and theta lifts and applications to generalized Ramanujan conjectures Books and long papers have been excluded No index Annotation copyrighted by Book News Inc Portland OR

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**L Functions And The Oscillator Representation**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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