

COMPOSITION SERIES FOR DEGENERATE PRINCIPAL SERIES OF $GL(n)$

DMITRY GOUREVITCH

ABSTRACT. In this note we consider representations of the group $GL(n, F)$, where F is the field of real or complex numbers or, more generally, an arbitrary local field, in the space of equivariant line bundles over Grassmannians over the same field F . We study reducibility and composition series of such representations.

Similar results were obtained already in [HL90, A112, Zel80], but we give a short uniform proof in the general case, using the tools from [AGS15a]. We also indicate some applications to cosine transforms in integral geometry.

1. INTRODUCTION

Let F be a local field, *i.e.* either $\mathbb{R}$ or $\mathbb{C}$ or a finite extension of the field $\mathbb{Q}_p$ of p -adic numbers for some prime p , or the field $\mathbb{F}_q((t))$ of Laurent series over a finite field. Let $G = G_n := GL(n, F)$ be the group of invertible matrices of size n with entries in F .

Then $C^\infty(G)$ is a $G \times G$ -module with left and right actions given by $L_g f(x) = f(g^{-1}x)$, $R_g f(x) = f(xg)$. Let $P \subset G$ be a Lie subgroup with modular function Δ_P and let χ be a character of P . The induced representation $I(P, \chi) := \text{Ind}_P^G(\chi)$ is the right G -action on the space

$$(1) \quad C^\infty(G, P, \chi) := \left\{ f \in C^\infty(G) \mid L_{p^{-1}} f = \chi(p) \Delta_P^{1/2}(p) f \text{ for all } p \in P \right\},$$

whose elements may also be regarded as smooth sections of a line bundle on G/P .

We are interested in the so-called maximal parabolic subgroups $P = P_{p_1, p_2}$, with $p_1 + p_2 = n$, consisting of matrices $x \in G_n$ of the form

$$(2) \quad x = \begin{bmatrix} x_{11} & x_{12} \\ 0 & x_{22} \end{bmatrix}; x_{ij} \in \text{Mat}_{p_i \times p_j}.$$

In this case G/P is the Grassmannian of p_1 -dimensional subspaces of F^n . The characters of P are of the form $\chi_1 \otimes \chi_2(x) = \chi_1(x_{11}) \chi_2(x_{22})$, where χ_i is a character of G_{p_i} . Following [BZ77] we write $\chi_1 \times \chi_2$ instead of $I(P, \chi_1 \otimes \chi_2)$.

It is well known that the representation $\chi_1 \times \chi_2$ is irreducible for most characters χ_1, χ_2 . We explicitly describe the exceptional characters for which $\chi_1 \times \chi_2$ is reducible, and show that the composition series are monotone in a certain sense. We also show that if F is non-archimedean, the length of $\chi_1 \times \chi_2$ is at most two, *i.e.* it has at most one non-trivial G -invariant subspace.

In 1.1 below we describe the main results precisely. In 1.2 below we give applications to integral geometry.

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The Degenerate Principal Series For Sp_{2n}

LL Leslie



The Degenerate Principal Series For Sp_{2n} :

The Degenerate Principal Series for Sp_{2N} , 1981

Degenerate Principal Series for Symplectic and Odd-Orthogonal Groups Chris Jantzen, 1996-01-01

This memoir studies reducibility in a certain class of induced representations for p -adic groups. In particular it is concerned with representations obtained by inducing a one dimensional representation from a maximal parabolic subgroup i.e degenerate principal series representations. Using the Jacquet module techniques of Tadi the reducibility points for such representations are determined. When reducible the composition series is described giving Langlands data and Jacquet modules for the irreducible composition factors.

Degenerate Principal Series for Symplectic Groups Chris Jantzen, 1993

This paper is concerned with induced representations for p -adic groups. In particular Jantzen examines the question of reducibility in the case where the inducing subgroup is a maximal parabolic subgroup of Sp_{2n} and the inducing representation is one dimensional. Two different approaches to this problem are used. The first based on the work of Casselman and of Gustafson reduces the problem to the corresponding question about an associated finite dimensional representation of a certain Hecke algebra. The second approach is based on a technique of Tadi and involves an analysis of Jacquet modules. This is used to obtain a more general result on induced representations which may be used to deal with the problem when the inducing representation satisfies a regularity condition. The same basic argument is also applied in a case by case fashion to nonregular cases.

Eisenstein Series and Applications Wee Teck Gan, Stephen S. Kudla, Yuri Tschinkel, 2007-12-22 Eisenstein series are an essential ingredient in the spectral theory of automorphic forms and an important tool in the theory of L functions. They have also been exploited extensively by number theorists for many arithmetic purposes. Bringing together contributions from areas which do not usually interact with each other this volume introduces diverse users of Eisenstein series to a variety of important applications. With this juxtaposition of perspectives the reader obtains deeper insights into the arithmetic of Eisenstein series. The central theme of the exposition focuses on the common structural properties of Eisenstein series occurring in many related applications.

Automorphic Forms and Zeta Functions Siegfried Böcherer, 2006 This volume contains a valuable collection of articles presented at a conference on Automorphic Forms and Zeta Functions in memory of Tsuneo Arakawa an eminent researcher in modular forms in several variables and zeta functions. The book begins with a review of his works followed by 16 articles by experts in the fields including H Aoki, R Berndt, K Hashimoto, S Hayashida, Y Hironaka, H Katsurada, W Kohnen, A Krieg, A Murase, H Narita, T Oda, B Roberts, R Schmidt, R Schulze Pillot, N Skoruppa, T Sugano and D Zagier. A variety of topics in the theory of modular forms and zeta functions are covered. Theta series and the basis problems, Jacobi forms, automorphic forms on $Sp_{1,q}$, double zeta functions, special values of zeta and L functions many of which are closely related to Arakawa's works. This collection of papers illustrates Arakawa's contributions and the current trends in modular forms in several variables and related zeta functions.

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Modular Forms and Special Cycles on Shimura Curves. (AM-161) Stephen S. Kudla, Michael Rapoport, Tonghai Yang, 2006-04-24
 Modular Forms and Special Cycles on Shimura Curves is a thorough study of the generating functions constructed from special cycles both divisors and zero cycles on the arithmetic surface M attached to a Shimura curve M over the field of rational numbers These generating functions are shown to be the q expansions of modular forms and Siegel modular forms of genus two respectively valued in the Gillet Soulé arithmetic Chow groups of M The two types of generating functions are related via an arithmetic inner product formula In addition an analogue of the classical Siegel Weil formula identifies the generating function for zero cycles as the central derivative of a Siegel Eisenstein series As an application an arithmetic analogue of the Shimura Waldspurger correspondence is constructed carrying holomorphic cusp forms of weight $3/2$ to classes in the Mordell Weil group of M In certain cases the nonvanishing of this correspondence is related to the central derivative of the standard L function for a modular form of weight 2 These results depend on a novel mixture of modular forms and arithmetic geometry and should provide a paradigm for further investigations The proofs involve a wide range of techniques including arithmetic intersection theory the arithmetic adjunction formula representation densities of quadratic forms deformation theory of p -divisible groups p -adic uniformization the Weil representation the local and global theta correspondence and the doubling integral representation of L functions
Automorphic Forms And Zeta Functions - Proceedings Of The Conference In Memory Of Tsuneo Arakawa Masanobu Kaneko, Siegfried Bocherer, Tomoyoshi Ibukiyama, Fumihiko Sato, 2006-01-03 This volume contains a valuable collection of articles presented at a conference on Automorphic Forms and Zeta Functions in memory of Tsuneo Arakawa an eminent researcher in modular forms in several variables and zeta functions The book begins with a review of his

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Casimir Force, Casimir Operators, and the Riemann Hypothesis Gerrit van Dijk, Masato Wakayama, 2010 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications

Pacific Journal of Mathematics, 2001

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