

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

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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}

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The Degenerate Principal Series For Sp_{2n} :

The Degenerate Principal Series for Sp_{2N} , 1981 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 Tadić 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. *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 Tadić 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. **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. Contents: Tsuneo Arakawa and His Works, Estimate of the Dimensions of Hilbert Modular Forms by

Means of Differential Operator H Aoki Marsden Weinstein Reduction Orbits and Representations of the Jacobi Group R Berndt On Eisenstein Series of Degree Two for Squarefree Levels and the Genus Version of the Basis Problem I S Bocherer Double Zeta Values and Modular Forms H Gangl et al Type Numbers and Linear Relations of Theta Series for Some General Orders of Quaternion Algebras K Hashimoto Skewholomorphic Jacobi Forms of Higher Degree S Hayashida A Hermitian Analog of the Schottky Form M Hentschel The Siegel Series and Spherical Functions on $O_{2n} \times O_n$ Y Hironaka Koecher Maa Series for Real Analytic Siegel Eisenstein Series T Ibukiyama A Short History on Investigation of the Special Values of Zeta and L Functions of Totally Real Number Fields T Ishii Genus Theta Series Hecke Operators and the Basis Problem for Eisenstein Series H Katsurada The Quadratic Mean of Automorphic L Functions W Kohnen et al Inner Product Formula for Kudla Lift A Murase On Certain Automorphic Forms of $Sp_{1,q}$ Arakawa s Results and Recent Progress H Narita On Modular Forms for the Paramodular Group B Roberts SL $2(\mathbb{Z})$ Invariant Spaces Spanned by Modular Units N P Skoruppa W Eholzer Readership Researchers and graduate students in number theory or representation theory as well as in mathematical physics or combinatorics **Automorphic Forms on Quaternion Algebras and Central L-values** Taliesin Sutton, 2006

Automorphic Forms And Zeta Functions - Proceedings Of The Conference In Memory Of Tsuneo Arakawa Masanobu Kaneko, Siegfried Bocherer, Tomoyoshi Ibukiyama, Fumihiro 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 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 Modular Forms and Special Cycles on Shimura Curves Stephen S. Kudla, Michael Rapoport, Tonghai Yang, 2006-04-04 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 Soul 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

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 *Geometric Invariant Theory and Decorated Principal Bundles* Alexander H. W. Schmitt, 2008 The book starts with an introduction to Geometric Invariant Theory GIT The fundamental results of Hilbert and Mumford are exposed as well as more recent topics such as the instability flag the finiteness of the number of quotients and the variation of quotients In the second part GIT is applied to solve the classification problem of decorated principal bundles on a compact Riemann surface The solution is a quasi projective moduli scheme which parameterizes those objects that satisfy a semistability condition originating from gauge theory The moduli space is equipped with a generalized Hitchin map Via the universal Kobayashi Hitchin correspondence these moduli spaces are related to moduli spaces of solutions of certain vortex type equations Potential applications include the study of representation spaces of the fundamental group of compact Riemann surfaces The book concludes with a brief discussion of generalizations of these findings to higher dimensional base varieties positive characteristic and parabolic bundles The text is fairly self contained e g the necessary background from the theory of principal bundles is included and features numerous examples and exercises It addresses students and researchers with a working knowledge of elementary algebraic geometry *Pacific Journal of Mathematics* ,2001 *Bulletin (new Series) of the American Mathematical Society* ,1993 *Mathematical Reviews* ,2007 *Bulletin of the American Mathematical Society* ,1993 *Groups, Combinatorics And Geometry* Alexander Anatolievich Ivanov, Martin W Liebeck, Jan Saxl, 2003-03-19 Over the past 20 years the theory of groups in particular simple groups finite and algebraic has influenced a number of diverse areas of mathematics Such areas include topics where groups have been traditionally applied such as algebraic combinatorics finite geometries Galois theory and permutation groups as well as several more recent developments Among the latter are probabilistic and computational group theory the theory of algebraic groups over number fields and model theory in each of which there has been a major recent impetus provided by simple group theory In addition there is still great interest in local analysis in finite groups with substantial new input from methods of geometry and amalgams and particular emphasis on the revision project for the classification of finite simple groups This important book contains 20

survey articles covering many of the above developments It should prove invaluable for those working in the theory of groups and its applications Moduli Spaces of Abelian Surfaces Klaus Hulek,Constantin Kahn,Steven H. Weintraub,2011-05-03 No detailed description available for Moduli Spaces of Abelian Surfaces **Encyclopaedia of Mathematics** Michiel Hazewinkel,2012-12-06 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques **Graphene Simulation** Jian Ru Gong,2011-08-01 Graphene a conceptually new class of materials in condensed matter physics has been the interest of many theoretical studies due to the extraordinary thermal mechanical and electrical properties for a long time This book is a collection of the recent theoretical work on graphene from many experts and will help readers to have a thorough and deep understanding in this fast developing field **Solutions Manual for Principles of Physical Chemistry, 3rd Edition, Solutions Manual** Hans Kuhn,David H. Waldeck,Horst-Dieter Försterling,2024-10-25 This is a Solutions Manual to Accompany with solutions to the exercises in the main volume of Principles of Physical Chemistry Third Edition This book provides a unique approach to introduce undergraduate students to the concepts and methods of physical chemistry which are the foundational principles of Chemistry The book introduces the student to the principles underlying the essential sub fields of quantum mechanics atomic and molecular structure atomic and molecular spectroscopy statistical thermodynamics classical thermodynamics solutions and equilibria electrochemistry kinetics and reaction dynamics macromolecules and organized molecular assemblies Importantly the book develops and applies these principles to supramolecular assemblies and supramolecular machines with many examples from biology and nanoscience In this way the book helps the student to see the frontier of modern physical chemistry developments The book begins with a discussion of wave particle duality and proceeds systematically to more complex chemical systems in order to relate the story of physical chemistry in an intellectually coherent manner The topics

are organized to correspond with those typically given in each of a two course semester sequence The first 13 chapters present quantum mechanics and spectroscopy to describe and predict the structure of matter atoms molecules and solids Chapters 14 to 29 present statistical thermodynamics and kinetics and applies their principles to understanding equilibria chemical transformations macromolecular properties and supramolecular machines Each chapter of the book begins with a simplified view of a topic and evolves to more rigorous description in order to provide the student and instructor flexibility to choose the level of rigor and detail that suits them best The textbook treats important new directions in physical chemistry research including chapters on macromolecules principles of interfaces and films for organizing matter and supramolecular machines as well as including discussions of modern nanoscience spectroscopy and reaction dynamics throughout the text

Solutions Manual for Principles of Physical Chemistry, 3rd Edition Hans Kuhn, David H. Waldeck, Horst-Dieter Försterling, 2024-10-29 This is a Solutions Manual to Accompany with solutions to the exercises in the main volume of Principles of Physical Chemistry Third Edition This book provides a unique approach to introduce undergraduate students to the concepts and methods of physical chemistry which are the foundational principles of Chemistry The book introduces the student to the principles underlying the essential sub fields of quantum mechanics atomic and molecular structure atomic and molecular spectroscopy statistical thermodynamics classical thermodynamics solutions and equilibria electrochemistry kinetics and reaction dynamics macromolecules and organized molecular assemblies Importantly the book develops and applies these principles to supramolecular assemblies and supramolecular machines with many examples from biology and nanoscience In this way the book helps the student to see the frontier of modern physical chemistry developments The book begins with a discussion of wave particle duality and proceeds systematically to more complex chemical systems in order to relate the story of physical chemistry in an intellectually coherent manner The topics are organized to correspond with those typically given in each of a two course semester sequence The first 13 chapters present quantum mechanics and spectroscopy to describe and predict the structure of matter atoms molecules and solids Chapters 14 to 29 present statistical thermodynamics and kinetics and applies their principles to understanding equilibria chemical transformations macromolecular properties and supramolecular machines Each chapter of the book begins with a simplified view of a topic and evolves to more rigorous description in order to provide the student and instructor flexibility to choose the level of rigor and detail that suits them best The textbook treats important new directions in physical chemistry research including chapters on macromolecules principles of interfaces and films for organizing matter and supramolecular machines as well as including discussions of modern nanoscience spectroscopy and reaction dynamics throughout the text

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