Harmonic Analysis and Special Functions on Symmetric Spaces

Gerrit Heckman
Henrik Schlichtkrull

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N.Ja. Vilenkin,A.U. Klimyk

Harmonic Analysis And Special Functions On Symmetric Spaces:

Harmonic Analysis and Special Functions on Symmetric Spaces Gerrit Heckman,1995-02-08 The two parts of this sharply focused book Hypergeometric and Special Functions and Harmonic Analysis on Semisimple Symmetric Spaces are derived from lecture notes for the European School of Group Theory a forum providing high level courses on recent developments in group theory The authors provide students and researchers with a thorough and thoughtful overview elaborating on the topic with clear statements of definitions and theorems and augmenting these withtime saving examples An extensive set of notes supplements the text Heckman and Schlichtkrull extend the ideas of harmonic analysis on semisimple symmetric spaces to embrace the theory of hypergeometric and spherical functions and show that the K variant Eisenstein integrals for G H are hypergeometric functions under this theory They lead readers from the fundamentals of semisimple symmetric spaces of G H to the frontier including generalization to the Riemannian case This volume will interest harmonic analysts those working on or applying the theory of symmetric spaces it will also appeal to those with an interest in special functions Extends ideas of harmonic analysis on symmetric spacesFirst treatment of the theory to include hypergeometric and spherical functionsLinks algebraic analytic and geometric methods **Harmonic Analysis of Mean Periodic Functions on Symmetric Spaces and the Heisenberg Group** Valery V. Volchkov,Vitaly V. Volchkov,2009-06-13 The theory of mean periodic functions is a subject which goes back to works of Littlewood Delsarte John and that has undergone a vigorous development in recent years There has been much progress in a number of problems concerning local pects of spectral analysis and spectral synthesis on homogeneous spaces The study oftheseproblemsturnsouttobecloselyrelatedtoavarietyofquestionsinharmonic analysis complex analysis partial differential equations integral geometry appr imation theory and other branches of contemporary mathematics The present book describes recent advances in this direction of research Symmetric spaces and the Heisenberg group are an active eld of investigation at 2 the moment The simplest examples of symmetric spaces the classical 2 sphere S 2 and the hyperbolic plane H play familiar roles in many areas in mathematics The n Heisenberg groupH is a principal model for nilpotent groups and results obtained n forH may suggest results that hold more generally for this important class of Lie groups The purpose of this book is to develop harmonic analysis of mean periodic functions on the above spaces

Harmonic Analysis on Symmetric Spaces—Euclidean Space, the Sphere, and the Poincaré Upper Half-Plane Audrey Terras,2013-09-12 This unique text is an introduction to harmonic analysis on the simplest symmetric spaces namely Euclidean space the sphere and the Poincar upper half plane This book is intended for beginning graduate students in mathematics or researchers in physics or engineering Written with an informal style the book places an emphasis on motivation concrete examples history and above all applications in mathematics statistics physics and engineering Many corrections and updates have been incorporated in this new edition Updates include discussions of P Sarnak and others work on quantum chaos the work of T Sunada Marie France Vign ras Carolyn Gordon and others on Mark Kac s question Can you

hear the shape of a drum A Lubotzky R Phillips and P Sarnak s examples of Ramanujan graphs and finally the author s comparisons of continuous theory with the finite analogues Topics featured throughout the text include inversion formulas for Fourier transforms central limit theorems Poisson s summation formula and applications in crystallography and number theory applications of spherical harmonic analysis to the hydrogen atom the Radon transform non Euclidean geometry on the Poincar upper half plane H or unit disc and applications to microwave engineering fundamental domains in H for discrete groups tessellations of H from such discrete group actions automorphic forms and the Selberg trace formula and its applications in spectral theory as well as number theory **Offbeat Integral Geometry on Symmetric Spaces** Valery V. Volchkov,Vitaly V. Volchkov,2013-01-30 The book demonstrates the development of integral geometry on domains of homogeneous spaces since 1990 It covers a wide range of topics including analysis on multidimensional Euclidean domains and Riemannian symmetric spaces of arbitrary ranks as well as recent work on phase space and the Heisenberg group The book includes many significant recent results some of them hitherto unpublished among which can be pointed out uniqueness theorems for various classes of functions far reaching generalizations of the two radii problem the modern versions of the Pompeiu problem and explicit reconstruction formulae in problems of integral geometry These results are intriguing and useful in various fields of contemporary mathematics The proofs given are minimal in the sense that they involve only those concepts and facts which are indispensable for the essence of the subject Each chapter provides a historical perspective on the results presented and includes many interesting open problems Readers will find this book relevant to harmonic analysis on homogeneous spaces invariant spaces theory integral transforms on symmetric spaces and the Heisenberg group integral equations special functions and transmutation operators theory _Representation Theory and Harmonic Analysis on Symmetric Spaces_ Jens Gerlach Christensen,Susanna Dann,Matthew Dawson,2018-08-27 This volume contains the proceedings of the AMS Special Session on Harmonic Analysis in honor of Gestur lafsson s 65th birthday held on January 4 2017 in Atlanta Georgia The articles in this volume provide fresh perspectives on many different directions within harmonic analysis highlighting the connections between harmonic analysis and the areas of integral geometry complex analysis operator algebras Lie algebras special functions and differential operators The breadth of contributions highlights the diversity of current research in harmonic analysis and shows that it continues to be a vibrant and fruitful field of inquiry *Representation of Lie Groups and Special Functions* N.Ja. Vilenkin,A.U. Klimyk,2013-04-18 This is the last of three major volumes which present a comprehensive treatment of the theory of the main classes of special functions from the point of view of the theory of group representations This volume deals with q analogs of special functions quantum groups and algebras including Hopf algebras and representations of semi simple Lie groups Also treated are special functions of a matrix argument representations in the Gel fand Tsetlin basis and finally modular forms theta functions and affine Lie algebras The volume builds upon results of the previous two volumes and presents many new results Subscribers to the

complete set of three volumes will be entitled to a discount of 15%   **Analysis on Non-Riemannian Symmetric Spaces** Mogens Flensted-Jensen,1986 Harmonic analysis on Riemannian semi simple symmetric spaces and on special types of non Riemannian semi simple symmetric spaces are well established theories This book presents a systematic treatment of the basic problems on semi simple symmetric spaces and a discussion of some of the more important recent developments in the field   Symmetry in Geometry and Analysis, Volume 2 Michael Pevzner,Hideko Sekiguchi,2025-02-10 Symmetry in Geometry and Analysis is a Festschrift honoring Toshiyuki Kobayashi The three volumes feature 35 selected contributions from invited speakers of twin conferences held in June 2022 in Reims France and in September 2022 in Tokyo Japan These contributions highlight the profound impact of Prof Kobayashi s pioneering ideas groundbreaking discoveries and significant achievements in the development of analytic representation theory noncommutative harmonic analysis and the geometry of discontinuous groups beyond the Riemannian context among other areas over the past four decades This second volume of the Festschrift contains original articles on analytic methods in representation theory of reductive Lie groups and related topics Contributions are by Salem Ben Sa d Valentina Casarino Paolo Ciatti Jean Louis Clerc Jan Frahm Joachim Hilgert Toshihisa Kubo Khalid Koufany Quentin Labriet Karl Hermann Neeb Yury Neretin Gestur lafsson Bent rsted Toshio Oshima Birgit Speh Jorge Vargas and Clemens Weiske   **Hyperfunctions and Harmonic Analysis on Symmetric Spaces** Henrik Schlichtkrull,2012-12-06 During the last ten years a powerful technique for the study of partial differential equations with regular singularities has developed using the theory of hyperfunctions The technique has had several important applications in harmonic analysis for symmetric spaces This book gives an introductory exposition of the theory of hyperfunctions and regular singularities and on this basis it treats two major applications to harmonic analysis The first is to the proof of Helgason s conjecture due to Kashiwara et al which represents eigenfunctions on Riemannian symmetric spaces as Poisson integrals of their hyperfunction boundary values A generalization of this result involving the full boundary of the space is also given The second topic is the construction of discrete series for semisimple symmetric spaces with an unpublished proof due to Oshima of a conjecture of Flensted Jensen This first English introduction to hyperfunctions brings readers to the forefront of research in the theory of harmonic analysis on symmetric spaces A substantial bibliography is also included This volume is based on a paper which was awarded the 1983 University of Copenhagen Gold Medal Prize   *Harmonic Analysis on Symmetric Spaces and Applications II* Audrey Terras,2012-12-06 Well finally here it is the long promised Revenge of the Higher Rank Symmetric Spaces and Their Fundamental Domains When I began work on it in 1977 I would probably have stopped immediately if someone had told me that ten years would pass before I would declare it finished Yes I am declaring it finished though certainly not perfected There is a large amount of work going on at the moment as the piles of preprints reach the ceiling Nevertheless it is summer and the ocean calls So I am not going to spend another ten years revising and polishing But gentle reader do send me your corrections and even your preprints Thanks to your work there is an Appendix

at the end of this volume with corrections to Volume I I said it all in the Preface to Volume I So I will try not to repeat myself here Yes the recent trends mentioned in that Preface are still just as recent   Representation Theory and Noncommutative Harmonic Analysis II A.A. Kirillov,2013-03-09 At first only elementary functions were studied in mathematical analysis Then new functions were introduced to evaluate integrals They were named special functions integral sine logarithms the exponential function the prob ability integral and so on Elliptic integrals proved to be the most important They are connected with rectification of arcs of certain curves The remarkable idea of Abel to replace these integrals by the corresponding inverse functions led to the creation of the theory of elliptic functions They are doubly periodic functions of a complex variable This periodicity has led to consideration of the lattice of periods and to linear fractional trans formations of the complex plane which leave this lattice invariant The group of these transformations is isomorphic to the quotient group of the group 8L 2 Z of unimodular matrices of the second order with integral elements with respect to its center Investigation of properties of elliptic functions led to the study of automorphic functions and forms This gave the first connec tion between the theory of groups and this important class of functions The further development of the theory of automorphic functions was related to geometric concepts connected with the fact that the group of linear fractional transformations with real elements can be realized as the group of motions of th the Lobachevskij plane We also note that at the beginning of the 19 century Gauss used the group 8L 2 Z in his papers on the theory of indeterminate quadratic forms   *Special Functions: Group Theoretical Aspects and Applications* R.A. Askey,Tom H. Koornwinder,Walter J. Schempp,2013-12-01 Approach your problems from It isn t that they can t see the right end and begin with the solution the answers Then one day It is that they can t see the the perhaps you will find the problem final question G K Chesterton The Scandal The Hermit Clad in Crane of Father Brown The Point of Feathers in R van Gulik s a Pin The Chinese Maze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowsky lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces And in addition to this there are such new emerging SUbdisciplines as completely integrable systems chaos synergetics and large scale order which are almost impossible to fit into the existing classification schemes They draw upon widely different sections of mathematics   Macdonald Polynomials Masatoshi Noumi,2023-09-08 This book is a volume of the Springer Briefs in Mathematical Physics and serves as an introductory textbook on the theory of

Macdonald polynomials It is based on a series of online lectures given by the author at the Royal Institute of Technology KTH Stockholm in February and March 2021 Macdonald polynomials are a class of symmetric orthogonal polynomials in many variables They include important classes of special functions such as Schur functions and Hall Littlewood polynomials and play important roles in various fields of mathematics and mathematical physics After an overview of Schur functions the author introduces Macdonald polynomials of type A in the GLn version as eigenfunctions of a q difference operator called the Macdonald Ruijsenaars operator in the ring of symmetric polynomials Starting from this definition various remarkable properties of Macdonald polynomials are explained such as orthogonality evaluation formulas and self duality with emphasis on the roles of commuting q difference operators The author also explains how Macdonald polynomials are formulated in the framework of affine Hecke algebras and q Dunkl operators   *Representation Theory and Automorphic Forms* Toshiyuki Kobayashi,Wilfried Schmid,Jae-Hyun Yang,2007-10-10 This volume uses a unified approach to representation theory and automorphic forms It collects papers written by leading mathematicians that track recent progress in the expanding fields of representation theory and automorphic forms and their association with number theory and differential geometry Topics include Automorphic forms and distributions modular forms visible actions Dirac cohomology holomorphic forms harmonic analysis self dual representations and Langlands Functoriality Conjecture Both graduate students and researchers will find inspiration in this volume   *Harmonic Analysis on Symmetric Spaces—Higher Rank Spaces, Positive Definite Matrix Space and Generalizations* Audrey Terras,2016-04-26 This text is an introduction to harmonic analysis on symmetric spaces focusing on advanced topics such as higher rank spaces positive definite matrix space and generalizations It is intended for beginning graduate students in mathematics or researchers in physics or engineering As with the introductory book entitled Harmonic Analysis on Symmetric Spaces Euclidean Space the Sphere and the Poincar Upper Half Plane the style is informal with an emphasis on motivation concrete examples history and applications The symmetric spaces considered here are quotients X G K where G is a non compact real Lie group such as the general linear group GL n P of all n x n non singular real matrices and K O n the maximal compact subgroup of orthogonal matrices Other examples are Siegel s upper half plane and the quaternionic upper half plane In the case of the general linear group one can identify X with the space Pn of n x n positive definite symmetric matrices Many corrections and updates have been incorporated in this new edition Updates include discussions of random matrix theory and quantum chaos as well as recent research on modular forms and their corresponding L functions in higher rank Many applications have been added such as the solution of the heat equation on Pn the central limit theorem of Donald St P Richards for Pn results on densest lattice packing of spheres in Euclidean space and GL n analogs of the Weyl law for eigenvalues of the Laplacian in plane domains Topics featured throughout the text include inversion formulas for Fourier transforms central limit theorems fundamental domains in X for discrete groups such as the modular group GL n Z of n x n matrices with integer entries and determinant 1 connections with the problem of finding

densest lattice packings of spheres in Euclidean space automorphic forms Hecke operators L functions and the Selberg trace formula and its applications in spectral theory as well as number theory   Algebraic and Analytic Methods in Representation Theory ,1996-09-27 This book is a compilation of several works from well recognized figures in the field of Representation Theory The presentation of the topic is unique in offering several different points of view which should makethe book very useful to students and experts alike Presents several different points of view on key topics in representation theory from internationally known experts in the field   *Lectures on Gaussian Integral Operators and Classical Groups* Yu. A. Neretin,2011 This book is an elementary self contained introduction to some constructions of representation theory and related topics of differential geometry and analysis Topics covered include the theory of various Fourier like integral operators such as Segal Bargmann transforms Gaussian integral operators in L 2 and in the Fock space integral operators with theta kernels the geometry of real and p adic classical groups and symmetric spaces The heart of the book is the Weil representation of the symplectic group real and complex realizations relations with theta functions and modular forms p adic and adelic constructions and representations in Hilbert spaces of holomorphic functions of several complex variables This book is addressed to graduate students and researchers in representation theory differential geometry and operator theory Prerequisites are standard university courses in linear algebra functional analysis and complex analysis   **Representation Theory and Automorphic Forms** T. N. Bailey,Anthony W. Knapp,1997 The lectures from a course in the representation theory of semi simple groups automorphic forms and the relations between them The purpose is to help analysts make systematic use of Lie groups in work on harmonic analysis differential equations and mathematical physics and to provide number theorists with the representation theoretic input to Wiles s proof of Fermat s Last Theorem Begins with an introductory treatment of structure theory and ends with the current status of functionality Annotation copyrighted by Book News Inc Portland OR   **Lie Groups and Symmetric Spaces** Semen Grigor'evich Gindikin,2003 The book contains survey and research articles devoted mainly to geometry and harmonic analysis of symmetric spaces and to corresponding aspects of group representation theory The volume is dedicated to the memory of Russian mathematician F I Karpelevich 1927 2000 Of particular interest are the survey articles by Sawyer on the Abel transform on noncompact Riemannian symmetric spaces and by Anker and Ostellari on estimates for heat kernels on such spaces as well as thearticle by Bernstein and Gindikin on integral geometry for families of curves There are also many research papers on topics of current interest The book is suitable for graduate students and research mathematicians interested in harmonic analysis and representation theory   **Harmonic Analysis on Symmetric Spaces and Applications I** Audrey Terras,2012-12-06 Since its beginnings with Fourier and as far back as the Babylonian astron omers harmonic analysis has been developed with the goal of unraveling the mysteries of the physical world of quasars brain tumors and so forth as well as the mysteries of the nonphysical but no less concrete world of prime numbers diophantine equations and zeta functions Quoting Courant and

Hilbert in the preface to the first German edition of Methods of Mathematical Physics Recent trends and fashions have however weakened the connection between mathematics and physics Such trends are still in evidence harmful though they may be My main motivation in writing these notes has been a desire to counteract this tendency towards specialization and describe appli cations of harmonic analysis in such diverse areas as number theory which happens to be my specialty statistics medicine geophysics and quantum physics I remember being quite surprised to learn that the subject is useful My graduate eduation was that of the 1960s The standard mathematics graduate course proceeded from Definition 1 1 1 to Corollary 14 5 59 with no room in between for applications motivation history or references to related work My aim has been to write a set of notes for a very different sort of course

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