

# Harmonic Analysis and Special Functions on Symmetric Spaces

Gerrit Heckman  
Henrik Schlichtkrull



**PERSPECTIVES IN MATHEMATICS**

*S. HELGASON, EDITOR*

# Harmonic Analysis And Special Functions On Symmetric Spaces

**Audrey Terras**



## 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 with time 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 spaces First treatment of the theory to include hypergeometric and spherical functions Links algebraic analytic and geometric methods [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work on phase space and the Heisenberg group The book includes many significant recent results some of them hitherto unpublished among which can be pointed out uniqueness theorems for various classes of functions far reaching generalizations of the two radii problem the modern versions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 [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 aspects of spectral analysis and spectral synthesis on homogeneous spaces The study of these problems turns out to be closely related to a variety of questions in harmonic analysis complex analysis partial differential equations integral geometry approximation 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 group  $H$  is a principal model for nilpotent groups and results obtained  $n$  for  $H$  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 *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 *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% *Representation of Lie Groups and Special Functions* Naum I. A. Iakovlevich Vilenkin, N. Ja. Vilenkin, A. U. Klimyk, 1992-09-30 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% **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 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 Minkowski 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

**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 make the 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. Knap, 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

**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 and Applications I** Audrey Terras, 2012-12-06 Since its beginnings with Fourier and as far back as the Babylonian astronomers 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 applications 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 education 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

**Positivity in Lie Theory** Joachim Hilgert, 1998 Sets out a series of problems to demonstrate to newcomers to Lie theory how notions of positivity in it occur in quite diverse settings vary

widely both in nature and application and are approached from quite divergent mathematical viewpoints Each of the 15 chapters one in French addresses a specific problem or a circle of problems at a level apprehendable by a graduate student with a sound knowledge of basic Lie theory The emphasis is on smaller problems that might serve as guidelines to the main problems Among the topics are exponential functions invariant cones in real representations total positivity discrete series and analyticity harmonic analysis on causal symmetric spaces and linear algebraic monoids A web site has been established to disseminate solutions to any of the problems Annotation copyrighted by Book News Inc Portland OR

Integrability, Supersymmetry and Coherent States Şengül Kuru,Javier Negro,Luis M. Nieto,2019-07-12 This volume shares and makes accessible new research lines and recent results in several branches of theoretical and mathematical physics among them Quantum Optics Coherent States Integrable Systems SUSY Quantum Mechanics and Mathematical Methods in Physics In addition to a selection of the contributions presented at the 6th International Workshop on New Challenges in Quantum Mechanics Integrability and Supersymmetry held in Valladolid Spain 27 30 June 2017 several high quality contributions from other authors are also included The conference gathered 60 participants from many countries working in different fields of Theoretical Physics and was dedicated to Prof Vronique Hussin an internationally recognized expert in many branches of Mathematical Physics who has been making remarkable contributions to this field since the 1980s The reader will find interesting reviews on the main topics from internationally recognized experts in each field as well as other original contributions all of which deal with recent applications or discoveries in the aforementioned areas

*Modern Signal Processing* Daniel N. Rockmore,Dennis M. Healy,2004-04-05 A description of the mathematical basis of signal processing and many areas of application

**Theory of Group Representations and Applications** Asim Orhan Barut,Ryszard R?czka,1986 Lie algebras Topological groups Lie groups Representations Special functions Induced representations

Several Complex Variables in China Chung-Chun Yang,Sheng Gong,1993 Today there is increasing interest in complex geometry geometric function theory and integral representation theory of several complex variables The present collection of survey and research articles comprises a current overview of research in several complex variables in China Among the topics covered are singular integrals function spaces differential operators and factorization of meromorphic functions in several complex variables via analytic or geometric methods Some results are reported in English for the first time

Double Affine Hecke Algebras Ivan Cherednik,2005-03-21 This is an essentially self contained monograph centered on the new double Hecke algebra technique

*Analytic, Algebraic and Geometric Aspects of Differential Equations* Galina Filipuk,Yoshishige Haraoka,Śławomir Michalik,2017-06-23 This volume consists of invited lecture notes survey papers and original research papers from the AAGADE school and conference held in B dlewo Poland in September 2015 The contributions provide an overview of the current level of interaction between algebra geometry and analysis and demonstrate the manifold aspects of the theory of ordinary and partial differential equations while also pointing out the highly fruitful

interrelations between those aspects These interactions continue to yield new developments not only in the theory of differential equations but also in several related areas of mathematics and physics such as differential geometry representation theory number theory and mathematical physics The main goal of the volume is to introduce basic concepts techniques detailed and illustrative examples and theorems in a manner suitable for non specialists and to present recent developments in the field together with open problems for more advanced and experienced readers It will be of interest to graduate students early career researchers and specialists in analysis geometry algebra and related areas as well as anyone interested in learning new methods and techniques



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