SL(n) Contravariant L_p Harmonic Valuations on Polytopes

Lijuan Liu[1] · Wei Wang[1]

Abstract

All SL(n) contravariant L_p harmonic valuations on convex polytopes are completely classified without homogeneity assumptions.

Keywords Convex ploytope · SL(n) contravariance · Valuation

Mathematics Subject Classification 52B45 · 52A20

1 Introduction

Let Q^n be a subset of $\mathcal{K}^n$, the set of convex bodies in $\mathbb{R}^n$, and let $\mathcal{A}$ be an abelian semigroup. A function $\Phi\colon Q^n \to (\mathcal{A}, +)$ is called a *valuation* if

$$\Phi(K \cup L) + \Phi(K \cap L) = \Phi(K) + \Phi(L) \qquad (1.1)$$

for all $K, L \in Q^n$ with $K \cup L, K \cap L \in Q^n$. Valuations on convex bodies are a classical concept going back to Dehn's solution in 1900 of Hilbert's Third Problem. Probably the most famous result on valuations is Hadwiger's classification theorem of continuous rigid motion invariant valuations [19]. For detailed information and a historical account on valuations on convex bodies, see [10,21,45]. See also [1–3,11–17,20,23–32,41,42] for some of the for more recent contributions.

Let K be a compact starshaped subset in $\mathbb{R}^n$. Its Minkowski functional $\| \cdot \|_K$ is defined by

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Editor in Charge: János Pach

Lijuan Liu
lijuanliu@hnust.edu.cn

Wei Wang
wwang@hnust.edu.cn

[1]   School of Mathematics and Computational Science, Hunan University of Science and Technology, Xiangtan 411201, People's Republic of China

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L^p **Harmonic Analysis on** $SL(2,{\mathbb R})$ William H. Barker,1988 The central result of this paper is a characterization of the image of script C superscript italic p italic G under the operator valued Fourier transform The main thread through the paper is a careful analysis of the matrix coefficients for the discrete series and principal series of representations of bold SL 2 bold R The paper is long very technical and is not for the faint hearted **Lp Harmonic Analysis on SL (2, R)** William H. Barker,1988 *The Bellman Function Technique in Harmonic Analysis* Vasily Vasyunin,Alexander Volberg,2020-08-06 The Bellman function a powerful tool originating in control theory can be used successfully in a large class of difficult harmonic analysis problems and has produced some notable results over the last thirty years This book by two leading experts is the first devoted to the Bellman function method and its applications to various topics in probability and harmonic analysis Beginning with basic concepts the theory is introduced step by step starting with many examples of gradually increasing sophistication culminating with Calder n Zygmund operators and end point estimates All necessary techniques are explained in generality making this book accessible to readers without specialized training in non linear PDEs or stochastic optimal control Graduate students and researchers in harmonic analysis PDEs functional analysis and probability will find this to be an incisive reference and can use it as the basis of a graduate course **Harmonic Analysis and Group Representations** A. Figà Talamanca,2011-06-10 Lectures A Auslander R Tolimeri Nilpotent groups and abelian varieties M Cowling Unitary and uniformly bounded representations of some simple Lie groups M Duflo Construction de representations unitaires d un groupe de Lie R Howe On a notion of rank for unitary representations of the classical groups V S Varadarajan Eigenfunction expansions of semisimple Lie groups R Zimmer Ergodic theory group representations and rigidity Seminars A Koranyi Some applications of Gelfand pairs in classical analysis **Pseudo-Differential Operators and Related Topics** Vishvesh Kumar,David Rottensteiner,Michael Ruzhansky,2025-01-28 The current volume gives an update on recent developments in the theory of pseudo differential operators and related topics The results collected here were presented at the Pseudo Differential Operators and Related Topics PSORT 2024 Conference at Ghent University Belgium and cover a wide range of topics in pseudo differential operators microlocal analysis time frequency analysis and related applications **Geometric Harmonic Analysis V** Dorina Mitrea,Irina Mitrea,Marius Mitrea,2023-08-22 This monograph presents a comprehensive self contained and novel approach to the Divergence Theorem through five progressive volumes Its ultimate aim is to develop tools in Real and Harmonic Analysis of geometric measure theoretic flavor capable of treating a broad spectrum of boundary value problems formulated in rather general geometric and analytic settings The text is intended for researchers graduate students and industry professionals interested in applications of harmonic analysis and geometric measure theory to complex analysis scattering and partial differential equations The ultimate goal in Volume V is to prove well posedness and Fredholm solvability results

concerning boundary value problems for elliptic second order homogeneous constant complex coefficient systems and domains of a rather general geometric nature The formulation of the boundary value problems treated here is optimal from a multitude of points of view having to do with geometry functional analysis through the consideration of a large variety of scales of function spaces topology and partial differential equations **Lie Theory and Its Applications in Physics** Vladimir Dobrev,2025-02-27 This volume presents modern trends in the area of symmetries and their applications based on contributions to the workshop Lie Theory and Its Applications in Physics held in Sofia Bulgaria in June 2023 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend is towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are meant in their widest sense i e representation theory algebraic geometry number theory infinite dimensional Lie algebras and groups superalgebras and supergroups groups and quantum groups noncommutative geometry symmetries of linear and nonlinear partial differential operators special functions and others Furthermore the necessary tools from functional analysis are included This is a large interdisciplinary and interrelated field The topics covered in this volume from the workshop represent the most modern trends in the field Representation Theory Symmetries in String Theories Symmetries in Gravity Theories Supergravity Conformal Field Theory Integrable Systems Polylogarithms and Supersymmetry They also include Supersymmetric Calogero type models Quantum Groups Deformations Quantum Computing and Deep Learning Entanglement Applications to Quantum Theory and Exceptional Quantum Algebra for the standard model of particle physics This book is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists including researchers and graduate students interested in Lie Theory **Symplectic Methods in Harmonic Analysis and in Mathematical Physics** Maurice A. de Gosson,2011-07-30 The aim of this book is to give a rigorous and complete treatment of various topics from harmonic analysis with a strong emphasis on symplectic invariance properties which are often ignored or underestimated in the time frequency literature The topics that are addressed include but are not limited to the theory of the Wigner transform the uncertainty principle from the point of view of symplectic topology Weyl calculus and its symplectic covariance Shubin s global theory of pseudo differential operators and Feichtinger s theory of modulation spaces Several applications to time frequency analysis and quantum mechanics are given many of them concurrent with ongoing research For instance a non standard pseudo differential calculus on phase space where the main role is played by Bopp operators also called Landau operators in the literature is introduced and studied This calculus is closely related to both the Landau problem and to the deformation quantization theory of Flato and Sternheimer of which it gives a simple pseudo differential formulation where Feichtinger s modulation spaces are key actors This book is primarily directed towards students or researchers in harmonic analysis in the broad sense and towards mathematical physicists working in quantum mechanics It

can also be read with profit by researchers in time frequency analysis providing a valuable complement to the existing literature on the topic A certain familiarity with Fourier analysis in the broad sense and introductory functional analysis e g the elementary theory of distributions is assumed Otherwise the book is largely self contained and includes an extensive list ofreferences   *Euclidean Harmonic Analysis* J. J. Benedetto,2006-11-15   **Harmonic Analysis in China** Minde Cheng,Dong-gao Deng,Sheng Gong,Chung-Chun Yang,2012-12-06 Harmonic Analysis in China is a collection of surveys and research papers written by distinguished Chinese mathematicians from within the People s Republic of China and expatriates The book covers topics in analytic function spaces of several complex variables integral transforms harmonic analysis on classical Lie groups and manifolds LP estimates of the Cauchy Riemann equations and wavelet transforms The reader will also be able to trace the great influence of the late Professor Loo keng Hua s ideas and methods on research into harmonic analysis on classical domains and the theory of functions of several complex variables Western scientists will thus become acquainted with the unique features and future trends of harmonic analysis in China Audience Analysts as well as engineers and physicists who use harmonic analysis   Aspects Of Representation Theory And Noncommutative Harmonic Analysis Jean H Gallier,Jocelyn Quaintance,2025-01-17 This book presents the theory of harmonic analysis for noncommutative compact groups If G is a commutative locally compact group there is a well understood theory of harmonic analysis as discussed in Aspects of Harmonic Analysis on Locally Compact Abelian Groups If G is not commutative things are a lot tougher In the special case of a compact group there is a deep interplay between analysis and representation theory which was first discovered by Hermann Weyl and refined by Andre Weil This book presents these seminal results of Weyl and Weil Starting with the basics of representations theory it presents the famous Peter Weyl theorems and discusses Fourier analysis on compact groups This book also introduces the reader to induced representations of locally compact groups induced representations of G bundles and the theory of Gelfand pairs A special feature is the chapter on equivariant convolutional neural networks CNNs a chapter which shows how many of the abstract concepts of representations analysis on compact groups Peter Weyl theorems Fourier transform induced representations are used to tackle very practical modern day problems   **Harmonic Analysis on Compact Solvmanifolds** J. Brezin,2006-11-15 a   **Four Short Courses on Harmonic Analysis** Brigitte Forster,Peter Robert Massopust,2010 Written by internationally renowned mathematicians this state of the art textbook examines four research directions in harmonic analysis and features some of the latest applications in the field The work is the first one that combines spline theory wavelets frames and time frequency methods leading up to a construction of wavelets on manifolds other than Rn Four Short Courses on Harmonic Analysis is intended as a graduate level textbook for courses or seminars on harmonic analysis and its applications The work is also an excellent reference or self study guide for researchers and practitioners with diverse mathematical backgrounds working in different fields such as pure and applied mathematics image and signal processing engineering mathematical physics and communication theory

Notices of the American Mathematical Society American Mathematical Society,1988 **Approximation Theory and Harmonic Analysis on Spheres and Balls** Feng Dai,Yuan Xu,2013-04-17 This monograph records progress in approximation theory and harmonic analysis on balls and spheres and presents contemporary material that will be useful to analysts in this area While the first part of the book contains mainstream material on the subject the second and the third parts deal with more specialized topics such as analysis in weight spaces with reflection invariant weight functions and analysis on balls and simplexes The last part of the book features several applications including cubature formulas distribution of points on the sphere and the reconstruction algorithm in computerized tomography This book is directed at researchers and advanced graduate students in analysis Mathematicians who are familiar with Fourier analysis and harmonic analysis will understand many of the concepts that appear in this manuscript spherical harmonics the Hardy Littlewood maximal function the Marcinkiewicz multiplier theorem the Riesz transform and doubling weights are all familiar tools to researchers in this area *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 *Abstracts of Papers Presented to the American Mathematical Society* American Mathematical Society,1984 **Superstrings, Unified Theories And Cosmology - Proceedings Summer Workshop** Giuseppe Furlan,Jogesh C Pati,Qaisar Shafi,Ergin Sezgin,R Jengo,Dennis Sciama,1987-05-01 **Index of Mathematical Papers** ,1973 Applications of Hypergroups and Related Measure Algebras ,1995-02-28 The most important single thing about this conference was that it brought together for the first time representatives of all major groups of users of hypergroups They talked to each other about how they were using hypergroups in fields as diverse as special functions probability theory representation theory measure algebras Hopf algebras and Hecke algebras This led to fireworks from the Introduction Hypergroups occur in a wide variety of contexts and mathematicians the world over have been discovering this same mathematical structure hidden in very different applications The diverse viewpoints on the subject have led to the need for a common perspective if not a common theory Presenting the proceedings of a Joint Summer Research Conference held in Seattle in the summer of 1993 this book will serve as a valuable

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