



# SL( $n$ ) Contravariant $L_p$ Harmonic Valuations on Polytopes

Lijuan Liu<sup>1</sup> · Wei Wang<sup>1</sup>

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## Abstract

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

**Keywords** Convex polytope · SL( $n$ ) contravariance · Valuation

**Mathematics Subject Classification** 52B45 · 52A20

## 1 Introduction

Let  $\mathcal{Q}^n$  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  $\Phi: \mathcal{Q}^n \rightarrow \langle \mathcal{A}, + \rangle$  is called a *valuation* if

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

for all  $K, L \in \mathcal{Q}^n$  with  $K \cup L, K \cap L \in \mathcal{Q}^n$ . 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

<sup>1</sup> School of Mathematics and Computational Science, Hunan University of Science and Technology, Xiangtan 411201, People's Republic of China

# Lp Harmonic Analysis Of Sl

**Anthony S. Fauci**



## Lp Harmonic Analysis Of SL:

$L^p$  Harmonic Analysis on  $SL(2, \mathbb{R})$  William H. Barker, 1988 The central result of this paper is a characterization of the image of  $C^\infty$   $G$  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  $SL(2, \mathbb{R})$  The paper is long very technical and is not for the faint hearted  $L^p$  Harmonic Analysis on  $SL(2, \mathbb{R})$  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 Calderón 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 **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 of references **Harmonic Analysis and Group Representations** A. Figà Talamanca, 2011-06-10 Lectures A Auslander R Tolimieri 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

*Harmonic Analysis and Number Theory* Carl Herz, Stephen William Drury, Maruti Ram Murty, 1997 This volume presents the proceedings of a conference on Harmonic Analysis and Number Theory held at McGill University Montreal in April 1996 The papers are dedicated to the memory of Carl Herz who had deep interests in both harmonic analysis and number theory These two disciplines have a symbiotic relationship that is reflected in the papers in this book

Lie Theory Jean-Philippe Anker, Bent Orsted, 2006-02-25 Semisimple Lie groups and their algebraic analogues over fields other than the reals are of fundamental importance in geometry analysis and mathematical physics Three independent self contained volumes under the general title of Lie Theory feature survey work and original results by well established researchers in key areas of semisimple Lie theory Harmonic Analysis on Symmetric Spaces General Plancherel Theorems presents extensive surveys by E P van den Ban H Schlichtkrull and P Delorme of the spectacular progress over the past decade in deriving the Plancherel theorem on reductive symmetric spaces Well suited for both graduate students and researchers in semisimple Lie theory and neighboring fields possibly even mathematical cosmology it provides a broad clearly focused examination of semisimple Lie groups and their integral importance and applications to research in many branches of mathematics and physics Knowledge of basic representation theory of Lie groups as well as familiarity with semisimple Lie groups symmetric spaces and parabolic subgroups is required

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

**Representation Theory and Harmonic Analysis** Ray Alden Kunze,1995 This volume stems from a special session on representation theory and harmonic analysis held in honour of Ray Kunze at the 889th meeting of the American Mathematical Society on January 12 15 1994 It is intended for graduate students and research mathematicians interested in topological groups lie groups and abstract harmonic analysis

**Harmonic Analysis and Convexity** Alexander Koldobsky,Alexander Volberg,2023-07-24 In recent years the interaction between harmonic analysis and convex geometry has increased which has resulted in solutions to several long standing problems This collection is based on the topics discussed during the Research Semester on Harmonic Analysis and Convexity at the Institute for Computational and Experimental Research in Mathematics in Providence RI in Fall 2022 The volume brings together experts working in related fields to report on the status of major problems in the area including the isomorphic Busemann Petty and slicing problems for arbitrary measures extremal problems for Fourier extension and extremal problems for classical singular integrals of martingale type among others

**An Introduction to Harmonic Analysis on Semisimple Lie Groups** V. S. Varadarajan,1999-07-22 Now in paperback this graduate level textbook is an introduction to the representation theory of semi simple Lie groups As such it will be suitable for research students in algebra and analysis and for research mathematicians requiring a readable account of the topic The author emphasizes the development of the central themes of the subject in the context of special examples without losing sight of its general flow and structure The book concludes with appendices sketching some basic topics with a comprehensive guide to further reading

*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      **Harmonic Analysis** G. Mauceri, F. Ricci, G. Weiss, 2006-11-15

**Abstract Harmonic Analysis** Edwin Hewitt, Kenneth A. Ross, 2013-11-11 This book is a continuation of Volume I of the same title *Grund lehren der mathematischen Wissenschaften Band 115* We constantly 1 1 The textbook *Real and cite definitions and results from Volume abstract analysis* by E HEWITT and K R STROMBERG Berlin Gottin gen Heidelberg Springer Verlag 1965 which appeared between the publication of the two volumes of this work contains many standard facts from analysis We use this book as a convenient reference for such facts and denote it in the text by RAAA Most readers will have only occasional need actually to read in RAAA Our goal in this volume is to present the most important parts of harmonic analysis on compact groups and on locally compact Abelian groups We deal with general locally compact groups only where they are the natural setting for what we are considering or where one or another group provides a useful counterexample Readers who are interested only in compact groups may read as follows 27 Appendix D 28 30 omitting subheads 30 6 30 60 if desired 31 22 31 25 32 34 38 44 Readers who are interested only in locally compact Abelian groups may read as follows 31 33 39 42 selected Miscellaneous Theorems and Examples in 34 38 For all readers 43 is interesting but optional Obviously we have not been able to cover all of harmonic analysis      *Harmonic Analysis on Reductive Groups* W. Barker, P. Sally, 2012-12-06 A conference on Harmonic Analysis on Reductive Groups was held at Bowdoin College in Brunswick Maine from July 31 to August 11 1989 The stated goal of the conference was to explore recent advances in harmonic analysis on both real and  $p$ -adic groups It was the first conference since the AMS Summer Symposium on Harmonic Analysis on Homogeneous Spaces held at Williamstown Massachusetts in 1972 to cover local harmonic analysis on reductive groups in such detail and to such an extent While the Williamstown conference was longer three weeks and somewhat broader nilpotent groups solvable groups as well as semisimple and reductive groups the structure and timeliness of the two meetings was remarkably similar The program of the Bowdoin Conference consisted of two parts First there were six major lecture series each consisting of several talks addressing those topics in harmonic analysis on real and  $p$ -adic groups which were the focus of intensive research during the previous decade These lectures began at an introductory level and advanced to the current state of research Second there was a series of single lectures in which the speakers presented an overview of their latest research      **Harmonic Analysis in Euclidean Spaces, Part 2** Guido Weiss, Stephen Wainger, 1979 Contains sections on Several complex variables Pseudo differential operators and partial differential equations Harmonic analysis in other settings probability martingales local fields and Lie groups and functional analysis      *Ergodic Theory and Its Connection with Harmonic Analysis* Karl Endel Petersen, 1995 Tutorial survey papers on important areas of ergodic theory with related research papers      **Gaussian Harmonic Analysis** Wilfredo Urbina-Romero, 2019-06-21

Authored by a ranking authority in Gaussian harmonic analysis this book embodies a state of the art entr e at the intersection

of two important fields of research harmonic analysis and probability The book is intended for a very diverse audience from graduate students all the way to researchers working in a broad spectrum of areas in analysis Written with the graduate student in mind it is assumed that the reader has familiarity with the basics of real analysis as well as with classical harmonic analysis including Calder n Zygmund theory also some knowledge of basic orthogonal polynomials theory would be convenient The monograph develops the main topics of classical harmonic analysis semigroups covering lemmas maximal functions Littlewood Paley functions spectral multipliers fractional integrals and fractional derivatives singular integrals with respect to the Gaussian measure The text provide an updated exposition as self contained as possible of all the topics in Gaussian harmonic analysis that up to now are mostly scattered in research papers and sections of books also an exhaustive bibliography for further reading Each chapter ends with a section of notes and further results where connections between Gaussian harmonic analysis and other connected fields points of view and alternative techniques are given Mathematicians and researchers in several areas will find the breadth and depth of the treatment of the subject highly useful

**Harmonic Analysis Methods in Partial Differential Equations** Changxing Miao,Bo Zhang,Jiqiang Zheng,2025-06-02 This volume applies theories of harmonic analysis to the study of nonlinear partial differential equations It covers consolidation characterizations of differentiable function spaces and the theory of three generations of C Z singular integral operators Fourier restriction estimation Strichartz estimation and Littlewood Paley theory It combines harmonic analysis methods with the study of partial differential equations

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