



Harmonic analysis

 L^p harmonic analysis for differential-reflection operatorsSalem Ben Said^a, Asma Boussen^b, Mohamed Sifi^b^a Institut Élie Cartan de Lorraine, Université de Lorraine, BP 239, 54506 Vandœuvre-lès-Nancy, France^b Université de Bani H Mawit, Faculté des sciences de Bani, MFT 8531 Laboratoire d'analyse mathématiques et applications, 2082 Bani, Tunisie

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ABSTRACT

We introduce and study differential-reflection operators $A_{A,x}$ acting on smooth functions defined on $\mathbb{R}$. Here A is a Sturm–Liouville function with additional hypotheses and $x \in \mathbb{R}$. For special pairs (A, x) , we recover Dunkl's, Heckman's and Cherednik's operators (in one dimension).

As, by construction, the operators $A_{A,x}$ are mixture of d/dx and reflection operators, we prove the existence of an operator $V_{A,x}$ so that $A_{A,x} \circ V_{A,x} = V_{A,x} \circ d/dx$. The positivity of the intertwining operator $V_{A,x}$ is also established.

Via the eigenfunctions of $A_{A,x}$, we introduce a generalized Fourier transform $\mathcal{F}_{A,x}$. For $-1 \leq x \leq 1$ and $0 < p \leq \frac{2}{1+\sqrt{1-x^2}}$, we develop an L^p -Fourier analysis for $\mathcal{F}_{A,x}$, and then we prove an L^p -Schwartz space isomorphism theorem for $\mathcal{F}_{A,x}$.

Details of this paper will be given in other articles [3] and [4].

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R É S U M É

Nous introduisons et étudions des opérateurs différentiels aux différences $A_{A,x}$ agissant sur les fonctions régulières définies sur $\mathbb{R}$. Ici A est une fonction de Sturm–Liouville avec des hypothèses supplémentaires et $x \in \mathbb{R}$. Pour des cas particuliers de paires (A, x) , nous obtenons les opérateurs de Dunkl, de Heckman et de Cherednik (unidimensionnels).

Comme, par construction, les opérateurs $A_{A,x}$ entraînent d/dx et des opérateurs de réflexion, nous prouvons qu'il existe un opérateur $V_{A,x}$ tel que $A_{A,x} \circ V_{A,x} = V_{A,x} \circ d/dx$. La positivité de l'opérateur $V_{A,x}$ a été établie.

À l'aide des fonctions propres de $A_{A,x}$, nous introduisons une transformée de Fourier généralisée $\mathcal{F}_{A,x}$. Nous développons de l'analyse de Fourier de type L^p pour $\mathcal{F}_{A,x}$ quand $-1 \leq x \leq 1$ et $0 < p \leq \frac{2}{1+\sqrt{1-x^2}}$, et nous caractérisons l'image des p -espaces de Schwartz par $\mathcal{F}_{A,x}$.

Les détails seront publiés dans d'autres articles [3] et [4].

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Lp Harmonic Analysis On Sl 2r Number 393

Lingjun Ying



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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 $\mathbb{R}$ The paper is long very technical and is not for the faint hearted **Technical Books in Print** ,1974 Topics in Harmonic Analysis, Related to the Littlewood-Paley Theory Elias M. Stein, 1970-02-21 This work deals with an extension of the classical Littlewood Paley theory in the context of symmetric diffusion semigroups In this general setting there are applications to a variety of problems such as those arising in the study of the expansions coming from second order elliptic operators A review of background material in Lie groups and martingale theory is included to make the monograph more accessible to the student *Harmonic Analysis on the Real Line* Elijah Liflyand, 2021-09-27 This book sketches a path for newcomers into the theory of harmonic analysis on the real line It presents a collection of both basic well known and some less known results that may serve as a background for future research around this topic Many of these results are also a necessary basis for multivariate extensions An extensive bibliography as well as hints to open problems are included The book can be used as a skeleton for designing certain special courses but it is also suitable for self study

Conference on Harmonic Analysis in Honor of Antoni Zygmund , 1983 **Harmonic Analysis and Partial Differential Equations** Patricio Cifuentes, 2010 **Classical and Multilinear Harmonic Analysis: Volume 2** Camil Muscalu, Wilhelm Schlag, 2013-01-31 This two volume text in harmonic analysis introduces a wealth of analytical results and techniques It is largely self contained and useful to graduates and researchers in pure and applied analysis Numerous exercises and problems make the text suitable for self study and the classroom alike The first volume starts with classical one dimensional topics Fourier series harmonic functions Hilbert transform Then the higher dimensional Calder n Zygmund and Littlewood Paley theories are developed Probabilistic methods and their applications are discussed as are applications of harmonic analysis to partial differential equations The volume concludes with an introduction to the Weyl calculus The second volume goes beyond the classical to the highly contemporary and focuses on multilinear aspects of harmonic analysis the bilinear Hilbert transform Coifman Meyer theory Carleson s resolution of the Lusin conjecture Calder n s commutators and the Cauchy integral on Lipschitz curves The material in this volume has not previously appeared together in book form **A Relationship Between Harmonic Analysis on $SU(2)$ and on $SL(2, \mathbb{C})/SU(2)$** Dennis M. Healy, 1986 **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

Harmonic Analysis and Partial Differential Equations Mario

Milman, Tomas Schonbek, 1990-07-19 This book brings together ten papers presented at the Conference on Harmonic Analysis and Partial Differential Equations held in April 1988 at Florida Atlantic University The papers illuminate the relationship between harmonic analysis and partial differential equations and present results of some of the foremost experts in these areas Among the topics covered are application of fully nonlinear uniformly elliptic equations to the Monge Ampere equation estimates for Green functions for the purpose of studying Dirichlet problems for operators in non divergence form an extension of classical potential theory to the case of nonsmooth domains the relation between Riesz potentials and maximal fractional operators due to Muckenhoupt and Wheeden and the Lax Phillips scattering theory applied to the double Hilbert transform Directed at research mathematicians and graduate students the papers require knowledge of the classical tools of analysis such as measure theory Sobolev spaces and potential theory

Harmonic Analysis and Applications

Christopher Heil, 2006-07-13 This self contained volume in honor of John J Benedetto covers a wide range of topics in harmonic analysis and related areas These include weighted norm inequalities frame theory wavelet theory time frequency analysis and sampling theory The chapters are clustered by topic to provide authoritative expositions that will be of lasting interest The original papers collected are written by prominent researchers and professionals in the field The book pays tribute to John J Benedetto s achievements and expresses an appreciation for the mathematical and personal inspiration he has given to so many students co authors and colleagues

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Benedetto, 2020-12-17 Harmonic analysis plays an essential role in understanding a host of engineering mathematical and scientific ideas In Harmonic Analysis and Applications the analysis and synthesis of functions in terms of harmonics is presented in such a way as to demonstrate the vitality power elegance usefulness and the intricacy and simplicity of the subject This book is about classical harmonic analysis a textbook suitable for students and an essay and general reference suitable for mathematicians physicists and others who use harmonic analysis Throughout the book material is provided for an upper level undergraduate course in harmonic analysis and some of its applications In addition the advanced material in Harmonic Analysis and Applications is well suited for graduate courses The course is outlined in Prologue I This course material is excellent not only for students but also for scientists mathematicians and engineers as a general reference Chapter 1 covers the Fourier analysis of integrable and square integrable finite energy functions on $\mathbb{R}$ Chapter 2 of the text covers distribution theory emphasizing the theory s useful vantage point for dealing with problems and general concepts from engineering physics and mathematics Chapter 3 deals with Fourier series including the Fourier analysis of finite and infinite sequences as well as functions defined on finite intervals The mathematical presentation insightful perspectives and numerous well chosen examples and exercises in Harmonic Analysis and Applications make this book well worth having in your collection

Commutative Harmonic Analysis David Colella, 1989

Harmonic Analysis and Partial Differential

Equations Patricio Cifuentes, José García-Cuerva, Gustavo Garrigós, Eugenio Hernández, José María Martell, Javier Parcet, Keith M. Rogers, Alberto Ruiz, Fernando Soria, Ana Vargas, 2013-12-06 This volume contains the Proceedings of the 9th International Conference on Harmonic Analysis and Partial Differential Equations held June 11 15 2012 in El Escorial Madrid Spain Included in this volume is the written version of the mini course given by Jonathan Bennett on Aspects of Multilinear Harmonic Analysis Related to Transversality Also included among other papers is a paper by Emmanouil Milakis Jill Pipher and Tatiana Toro which reflects and extends the ideas presented in the mini course on Analysis on Non smooth Domains delivered at the conference by Tatiana Toro The topics of the contributed lectures cover a wide range of the field of Harmonic Analysis and Partial Differential Equations and illustrate the fruitful interplay between the two subfields

Conference on Harmonic Analysis D. Gulick, R. L. Lipsman, 2006-11-15 **Classical and Multilinear Harmonic Analysis** Camil Muscalu, Wilhelm Schlag, 2013-01-31 This contemporary graduate level text in harmonic analysis introduces the reader to a wide array of analytical results and techniques **An Introduction to Harmonic Analysis** Yitzhak Katznelson, 2004-01-05 First published in 1968 An Introduction to Harmonic Analysis has firmly established itself as a classic text and a favorite for students and experts alike Professor Katznelson starts the book with an exposition of classical Fourier series The aim is to demonstrate the central ideas of harmonic analysis in a concrete setting and to provide a stock of examples to foster a clear understanding of the theory Once these ideas are established the author goes on to show that the scope of harmonic analysis extends far beyond the setting of the circle group and he opens the door to other contexts by considering Fourier transforms on the real line as well as a brief look at Fourier analysis on locally compact abelian groups This new edition has been revised by the author to include several new sections and a new appendix **Geometric Harmonic Analysis III** Dorina Mitrea, Irina Mitrea, Marius Mitrea, 2023-05-12 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 Volume III is concerned with integral representation formulas for nullsolutions of elliptic PDEs Calderón Zygmund theory for singular integral operators Fatou type theorems for systems of elliptic PDEs and applications to acoustic and electromagnetic scattering Overall this amounts to a powerful and nuanced theory developed on uniformly rectifiable sets which builds on the work of many predecessors *Suprematism in Harmonic Analysis* Antonio Córdoba Barba, 2024 **Harmonic Analysis of $SL(2)$ Over a Locally Compact Field** Charles Francis Gulizia, 1971

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