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Fourier Analysis in Convex Geometry

Alexander Koldobsky



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Fourier Analysis In Convex Geometry

Luca Brandolini



Fourier Analysis In Convex Geometry:

Fourier Analysis in Convex Geometry Alexander Koldobsky, 2005 The study of the geometry of convex bodies based on information about sections and projections of these bodies has important applications in many areas of mathematics and science In this book a new Fourier analysis approach is discussed The idea is to express certain geometric properties of bodies in terms of Fourier analysis and to use harmonic analysis methods to solve geometric problems One of the results discussed in the book is Ball's theorem establishing the exact upper bound for the $n-1$ dimensional volume of hyperplane sections of the n dimensional unit cube it is $\sqrt{2}$ for each $n \geq 2$ Another is the Busemann Petty problem if K and L are two convex origin symmetric n dimensional bodies and the $n-1$ dimensional volume of each central hyperplane section of K is less than the $n-1$ dimensional volume of the corresponding section of L is it true that the n dimensional volume of K is less than the volume of L The answer is positive for $n \leq 4$ and negative for $n \geq 4$ The book is suitable for all mathematicians interested in geometry harmonic and functional analysis and probability Prerequisites for reading this book include basic real complex and functional analysis

Fourier Analysis and Convexity Luca Brandolini, 2004-08-06 Explores relationship between Fourier Analysis convex geometry and related areas in the past study of this relationship has led to important mathematical advances Presents new results and applications to diverse fields such as geometry number theory and analysis Contributors are leading experts in their respective fields Will be of interest to both pure and applied mathematicians

The Interface Between Convex Geometry and Harmonic Analysis Alexander Koldobsky, Vladyslav Yaskin, The book is written in the form of lectures accessible to graduate students This approach allows the reader to clearly see the main ideas behind the method rather than to dwell on technical difficulties The book also contains discussions of the most recent advances in the subject The first section of each lecture is a snapshot of that lecture By reading each of these sections first novices can gain an overview of the subject then return to the full text for more details

BOOK JACKET Applications of the Fourier Transform to Convex Geometry Vladyslav Yaskin, 2006 The thesis is devoted to the study of various problems arising from Convex Geometry and Geometric Functional Analysis using tools of Fourier Analysis In chapters two through four we consider the Busemann Petty problem and its different modifications and generalizations We solve the Busemann Petty problem in hyperbolic and spherical spaces and the lower dimensional Busemann Petty problem in the hyperbolic space In the Euclidean space we modify the assumptions of the original Busemann Petty problem to guarantee the affirmative answer in all dimensions In chapter five we introduce the notion of embedding of a normed space in L_0 investigate the geometry of such spaces and prove results confirming the place of L_0 in the scale of L_p spaces Chapter six is concerned with the study L_p centroid bodies associated to symmetric convex bodies and generalization of some known results of Lutwak and Grinberg Zhang to the case $-1 < p < 1$ In chapter seven we discuss Khinchin type inequalities and the slicing problem We obtain a version of such inequalities for p greater than -2 and as a consequence

we prove the slicing problem for the unit balls of spaces that embed in L_p for $p > 2$ **Fourier Analysis and Convexity** Luca Brandolini, Leonardo Colzani, Alex Iosevich, Giancarlo Travaglini, 2011-04-27 Over the course of the last century the systematic exploration of the relationship between Fourier analysis and other branches of mathematics has led to important advances in geometry number theory and analysis stimulated in part by Hurwitz's proof of the isoperimetric inequality using Fourier series This unified self contained book presents both a broad overview of Fourier analysis and convexity as well as an intricate look at applications in some specific settings it will be useful to graduate students and researchers in harmonic analysis convex geometry functional analysis number theory computer science and combinatorial analysis A wide audience will benefit from the careful demonstration of how Fourier analysis is used to distill the essence of many mathematical problems in a natural and elegant way

Handbook of Fourier Analysis & Its Applications Robert J. Marks, 2009-01-08 This practical applications based professional handbook comprehensively covers the theory and applications of Fourier Analysis spanning topics from engineering mathematics signal processing and related multidimensional transform theory and quantum physics to elementary deterministic finance and even the foundations of western music theory

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

Convexity from the Geometric Point of View Vitor Balestro, Horst Martini, Ralph Teixeira, 2024-07-14 This text gives a comprehensive introduction to the common core of convex geometry Basic concepts and tools which are present in all branches of that field are presented with a highly didactic approach Mainly directed to graduate and advanced undergraduates the book is self contained in such a way that it can be read by anyone who has standard undergraduate knowledge of analysis and of linear algebra Additionally it can be used as a single reference for a complete introduction to convex geometry and the content coverage is sufficiently broad that the reader may gain a glimpse of the entire breadth of the field and various subfields The book is suitable as a primary text for courses in convex geometry and also in discrete geometry including polytopes It is also appropriate for survey type courses in Banach space theory convex analysis differential geometry and applications of measure theory Solutions to all exercises are available to instructors who adopt the text for coursework Most chapters use the same structure with the first part presenting theory and the next containing a healthy range of exercises Some of the exercises may even be considered as short introductions to ideas which are not covered in the theory portion Each chapter

has a notes section offering a rich narrative to accompany the theory illuminating the development of ideas and providing overviews to the literature concerning the covered topics In most cases these notes bring the reader to the research front The text includes many figures that illustrate concepts and some parts of the proofs enabling the reader to have a better understanding of the geometric meaning of the ideas An appendix containing basic and geometric measure theory collects useful information for convex geometers

Asymptotic Geometric Analysis, Part II Shiri Artstein-Avidan, Apostolos Giannopoulos, Vitali D. Milman, 2021-12-13 This book is a continuation of Asymptotic Geometric Analysis Part I which was published as volume 202 in this series Asymptotic geometric analysis studies properties of geometric objects such as normed spaces convex bodies or convex functions when the dimensions of these objects increase to infinity The asymptotic approach reveals many very novel phenomena which influence other fields in mathematics especially where a large data set is of main concern or a number of parameters which becomes uncontrollably large One of the important features of this new theory is in developing tools which allow studying high parametric families Among the topics covered in the book are measure concentration isoperimetric constants of log concave measures thin shell estimates stochastic localization the geometry of Gaussian measures volume inequalities for convex bodies local theory of Banach spaces type and cotype the Banach Mazur compactum symmetrizations restricted invertibility and functional versions of geometric notions and inequalities

Analytic Aspects of Convexity Gabriele Bianchi, Andrea Colesanti, Paolo Gronchi, 2018-02-28 This book presents the proceedings of the international conference Analytic Aspects in Convexity which was held in Rome in October 2016 It offers a collection of selected articles written by some of the world's leading experts in the field of Convex Geometry on recent developments in this area theory of valuations geometric inequalities affine geometry and curvature measures The book will be of interest to a broad readership from those involved in Convex Geometry to those focusing on Functional Analysis Harmonic Analysis Differential Geometry or PDEs The book is addressed to PhD students and researchers interested in Convex Geometry and its links to analysis

Convexity from the Geometric Point of View: Exercises and Solutions Vitor Balestro, Horst Martini, Ralph Teixeira, 2025-08-04 This book provides the solutions to all 347 exercises contained in the text Convexity from the Geometric Point of View published in the same Cornerstones series All these exercises are restated and numbered analogously to those in the original text The corresponding solutions follow each exercise Besides the discussion of all solutions some additional facts about the main text are sprinkled throughout Sections of further reading are posted to the ends of each chapter supplying the reader with background literature to selected notions and tools that play a role in the exercises and or solutions to the chapter The original text gives a comprehensive introduction to the common core of convex geometry and is suitable as a primary text for courses in convex geometry and in discrete geometry including polytopes Additionally it can be used as a single reference for a complete introduction to convex geometry The content coverage is sufficiently broad that the reader may gain a glimpse of the entire breadth of the field various subfields and

interesting connections to neighboring disciplines. Mainly directed to graduate and advanced undergraduates, the original text is self-contained in such a way that it can be read by anyone who has standard undergraduate knowledge of analysis and of linear algebra. The same is true for this book of solutions.

Geometric Aspects of Functional Analysis Bo'az Klartag, Emanuel Milman, 2017-04-17. As in the previous Seminar Notes, the current volume reflects general trends in the study of Geometric Aspects of Functional Analysis understood in a broad sense. A classical theme in the Local Theory of Banach Spaces, which is well represented in this volume, is the identification of lower dimensional structures in high dimensional objects. More recent applications of high dimensionality are manifested by contributions in Random Matrix Theory, Concentration of Measure, and Empirical Processes. Naturally, the Gaussian measure plays a central role in many of these topics and is also studied in this volume. In particular, the recent breakthrough proof of the Gaussian Correlation Conjecture is revisited. The interplay of the theory with Harmonic and Spectral Analysis is also well apparent in several contributions. The classical relation to both the primal and dual Brunn-Minkowski theories is also well represented, and related algebraic structures pertaining to valuations and valent functions are discussed. All contributions are original research papers and were subject to the usual refereeing standards.

Asymptotic Geometric Analysis, Part I Shiri Artstein-Avidan, Apostolos Giannopoulos, Vitali D. Milman, 2015-06-18. The authors present the theory of asymptotic geometric analysis, a field which lies on the border between geometry and functional analysis. In this field, isometric problems that are typical for geometry in low dimensions are substituted by an isomorphic point of view, and an asymptotic approach as dimension tends to infinity is introduced. Geometry and analysis meet here in a non-trivial way. Basic examples of geometric inequalities in isomorphic form, which are encountered in the book, are the isomorphic isoperimetric inequalities, which led to the discovery of the concentration phenomenon, one of the most powerful tools of the theory, responsible for many counterintuitive results. A central theme in this book is the interaction of randomness and pattern. At first glance, life in high dimension seems to mean the existence of multiple possibilities, so one may expect an increase in the diversity and complexity as dimension increases. However, the concentration of measure and effects caused by convexity show that this diversity is compensated, and order and patterns are created for arbitrary convex bodies in the mixture caused by high dimensionality. The book is intended for graduate students and researchers who want to learn about this exciting subject. Among the topics covered in the book are convexity, concentration phenomena, covering numbers, Dvoretzky-type theorems, volume distribution in convex bodies, and more.

Geometric Aspects of Functional Analysis Ronen Eldan, Bo'az Klartag, Alexander Litvak, Emanuel Milman, 2023-09-29. This book reflects general trends in the study of geometric aspects of functional analysis understood in a broad sense. A classical theme in the local theory of Banach spaces is the study of probability measures in high dimension and the concentration of measure phenomenon. Here, this phenomenon is approached from different angles, including through analysis on the Hamming cube and via quantitative estimates in the Central Limit Theorem under thin

shell and related assumptions Classical convexity theory plays a central role in this volume as well as the study of geometric inequalities These inequalities which are somewhat in spirit of the Brunn Minkowski inequality in turn shed light on convexity and on the geometry of Euclidean space Probability measures with convexity or curvature properties such as log concave distributions occupy an equally central role and arise in the study of Gaussian measures and non trivial properties of the heat flow in Euclidean spaces Also discussed are interactions of this circle of ideas with linear programming and sampling algorithms including the solution of a question in online learning algorithms using a classical convexity construction from the 19th century

Asymptotic Geometric Analysis Monika Ludwig,Vitali D. Milman,Vladimir Pestov,Nicole Tomczak-Jaegermann,2013-03-27 Asymptotic Geometric Analysis is concerned with the geometric and linear properties of finite dimensional objects normed spaces and convex bodies especially with the asymptotics of their various quantitative parameters as the dimension tends to infinity The deep geometric probabilistic and combinatorial methods developed here are used outside the field in many areas of mathematics and mathematical sciences The Fields Institute Thematic Program in the Fall of 2010 continued an established tradition of previous large scale programs devoted to the same general research direction The main directions of the program included Asymptotic theory of convexity and normed spaces Concentration of measure and isoperimetric inequalities optimal transportation approach Applications of the concept of concentration Connections with transformation groups and Ramsey theory Geometrization of probability Random matrices Connection with asymptotic combinatorics and complexity theory These directions are represented in this volume and reflect the present state of this important area of research It will be of benefit to researchers working in a wide range of mathematical sciences in particular functional analysis combinatorics convex geometry dynamical systems operator algebras and computer science

Recent Advances in Harmonic Analysis and Applications Dmitriy Bilyk,Laura De Carli,Alexander Petukhov,Alexander M. Stokolos,Brett D. Wick,2012-10-16 Recent Advances in Harmonic Analysis and Applications features selected contributions from the AMS conference which took place at Georgia Southern University Statesboro in 2011 in honor of Professor Konstantin Oskolkov s 65th birthday The contributions are based on two special sessions namely Harmonic Analysis and Applications and Sparse Data Representations and Applications Topics covered range from Banach space geometry to classical harmonic analysis and partial differential equations Survey and expository articles by leading experts in their corresponding fields are included and the volume also features selected high quality papers exploring new results and trends in Muckenhoupt Sawyer theory orthogonal polynomials trigonometric series approximation theory Bellman functions and applications in differential equations Graduate students and researchers in analysis will be particularly interested in the articles which emphasize remarkable connections between analysis and analytic number theory The readers will learn about recent mathematical developments and directions for future work in the unexpected and surprising interaction between abstract problems in additive number theory and experimentally discovered optical phenomena in physics This book will be

useful for number theorists harmonic analysts algorithmists in multi dimensional signal processing and experts in physics and partial differential equations Approximate Approximations V. G. Maz'ia, Gunther Schmidt, 2007 In this book a new approach to approximation procedures is developed This new approach is characterized by the common feature that the procedures are accurate without being convergent as the mesh size tends to zero This lack of convergence is compensated for by the flexibility in the choice of approximating functions the simplicity of multi dimensional generalizations and the possibility of obtaining explicit formulas for the values of various integral and pseudodifferential operators applied to approximating functions The developed techniques allow the authors to design new classes of high order quadrature formulas for integral and pseudodifferential operators to introduce the concept of approximate wavelets and to develop new efficient numerical and semi numerical methods for solving boundary value problems of mathematical physics The book is intended for researchers interested in approximation theory and numerical methods for partial differential and integral equations **Renormalization and Effective Field Theory** Kevin Costello, 2022-04-25 This book tells mathematicians about an amazing subject invented by physicists and it tells physicists how a master mathematician must proceed in order to understand it Physicists who know quantum field theory can learn the powerful methodology of mathematical structure while mathematicians can position themselves to use the magical ideas of quantum field theory in mathematics itself The retelling of the tale mathematically by Kevin Costello is a beautiful tour de force Dennis Sullivan This book is quite a remarkable contribution It should make perturbative quantum field theory accessible to mathematicians There is a lot of insight in the way the author uses the renormalization group and effective field theory to analyze perturbative renormalization this may serve as a springboard to a wider use of those topics hopefully to an eventual nonperturbative understanding Edward Witten Quantum field theory has had a profound influence on mathematics and on geometry in particular However the notorious difficulties of renormalization have made quantum field theory very inaccessible for mathematicians This book provides complete mathematical foundations for the theory of perturbative quantum field theory based on Wilson's ideas of low energy effective field theory and on the Batalin-Vilkovisky formalism As an example a cohomological proof of perturbative renormalizability of Yang-Mills theory is presented An effort has been made to make the book accessible to mathematicians who have had no prior exposure to quantum field theory Graduate students who have taken classes in basic functional analysis and homological algebra should be able to read this book Eigenvalue Distribution of Large Random Matrices Leonid Andreevich Pastur, Mariya Shcherbina, 2011 Random matrix theory is a wide and growing field with a variety of concepts results and techniques and a vast range of applications in mathematics and the related sciences The book written by well known experts offers beginners a fairly balanced collection of basic facts and methods Part 1 on classical ensembles and presents experts with an exposition of recent advances in the subject Parts 2 and 3 on invariant ensembles and ensembles with independent entries The text includes many of the authors results and methods on several main aspects of

the theory thus allowing them to present a unique and personal perspective on the subject and to cover many topics using a unified approach essentially based on the Stieltjes transform and orthogonal polynomials The exposition is supplemented by numerous comments remarks and problems This results in a book that presents a detailed and self contained treatment of the basic random matrix ensembles and asymptotic regimes This book will be an important reference for researchers in a variety of areas of mathematics and mathematical physics Various chapters of the book can be used for graduate courses the main prerequisite is a basic knowledge of calculus linear algebra and probability theory

Algebraic Geometric Codes: Basic Notions Michael Tsfasman, Serge Vlăduț, Dmitry Nogin, 2022-04-15 The book is devoted to the theory of algebraic geometric codes a subject formed on the border of several domains of mathematics On one side there are such classical areas as algebraic geometry and number theory on the other information transmission theory combinatorics finite geometries dense packings etc The authors give a unique perspective on the subject Whereas most books on coding theory build up coding theory from within starting from elementary concepts and almost always finishing without reaching a certain depth this book constantly looks for interpretations that connect coding theory to algebraic geometry and number theory There are no prerequisites other than a standard algebra graduate course The first two chapters of the book can serve as an introduction to coding theory and algebraic geometry respectively Special attention is given to the geometry of curves over finite fields in the third chapter Finally in the last chapter the authors explain relations between all of these the theory of algebraic geometric codes

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