Convex Geometric Analysis

Keith M. Ball
Vitali Milman
Editors

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MSRI

Convex Geometric Analysis

Shiri Artstein-Avidan, Apostolos Giannopoulos, Vitali D. Milman

Convex Geometric Analysis:

   Convex Geometric Analysis Keith M. Ball,Vitali Milman,1999-01-28 Convex geometry is at once simple and amazingly rich While the classical results go back many decades during that previous to this book s publication in 1999 the integral geometry of convex bodies had undergone a dramatic revitalization brought about by the introduction of methods results and most importantly new viewpoints from probability theory harmonic analysis and the geometry of finite dimensional normed spaces This book is a collection of research and expository articles on convex geometry and probability suitable for researchers and graduate students in several branches of mathematics coming under the broad heading of Geometric Functional Analysis It continues the Israel GAFA Seminar series which is widely recognized as the most useful research source in the area The collection reflects the work done at the program in Convex Geometry and Geometric Analysis that took place at MSRI in 1996   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

   Convexity and Concentration Eric Carlen,Mokshay Madiman,Elisabeth M. Werner,2017-04-20 This volume presents some of the research topics discussed at the 2014 2015 Annual Thematic Program Discrete Structures Analysis and Applications at the Institute of Mathematics and its Applications during the Spring 2015 where geometric analysis convex geometry and concentration phenomena were the focus Leading experts have written surveys of research problems making state of the art results more conveniently and widely available The volume is organized into two parts Part I contains those contributions that focus primarily on problems motivated by probability theory while Part II contains those contributions that focus primarily on problems motivated by convex geometry and geometric analysis This book will be of use to those who research convex geometry geometric analysis and probability directly or apply such methods in other fields   *Geometry, Analysis*

and Convexity David Alonso-Gutiérrez,Bernardo González Merino,Carlos Hugo Jimenez,Rafael Villa,2026-01-22 These proceedings result from the International Conference Geometry Analysis Convexity OLE 2022 held from 20th to 24th June 2022 at the Instituto de Matem ticas de la Universidad de Sevilla IMUS Spain and they include some of the contributions presented at this conference This book is addressed to any researcher interested in convex geometric analysis and asymptotic analysis as well as integral geometry and discrete geometry and their applications in convexity and related topics Convex geometric analysis was born from the increasing interaction between classical convex geometry and asymptotic convex analysis During the last three decades the study of the integral geometry of convex bodies has been fuelled by the introduction of methods results and new points of view coming from other branches of mathematics such as probability harmonic analysis geometry of finite dimensional normed spaces integral geometry and discrete geometry These recent advances have revealed fruitful connections between geometric inequalities transport theory and information theory Asymptotic convex analysis is mainly concerned with geometric properties of convex bodies in finite dimensional normed spaces focused when the dimension tends to infinity The understanding of high dimensional phenomena becomes an important point since high dimensional problems are frequently encountered in mathematics and applied sciences Concentration of measure phenomenon can be viewed as an isoperimetric problem which lies at the heart of classical geometry and calculus of variation Besides convex geometry geometric analysis has been developed using techniques and deep theorems from integral geometry where the notion of measure is generalized to the concept of the so called valuation and it has developed from a simple technique to a fundamental area the theory of valuations The underlying structure of the valuation space invariant under translations is intrinsically connected with affine or analytic isoperimetric inequalities among others It is addressed to researchers in this field **Convex Functional Analysis** Andrew J. Kurdila,Michael Zabarankin,2005-05-23 This volume is dedicated to the fundamentals of convex functional analysis It presents those aspects of functional analysis that are extensively used in various applications to mechanics and control theory The purpose of the text is essentially two fold On the one hand a bare minimum of the theory required to understand the principles of functional convex and set valued analysis is presented Numerous examples and diagrams provide as intuitive an explanation of the principles as possible On the other hand the volume is largely self contained Those with a background in graduate mathematics will find a concise summary of all main definitions and theorems **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 le 4 and negative for n 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

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

Convex Analysis and Nonlinear Geometric Elliptic Equations Ilya J. Bakelman,2012-12-06 Investigations in modem nonlinear analysis rely on ideas methods and prob lems from various fields of mathematics mechanics physics and other applied sciences In the second half of the twentieth century many prominent ex emplary problems in nonlinear analysis were subject to intensive study and examination The united ideas and methods of differential geometry topology differential equations and functional analysis as well as other areas of research in mathematics were successfully applied towards the complete solution of com plex problems in nonlinear analysis It is not possible to encompass in the scope of one book all concepts ideas methods and results related to nonlinear analysis Therefore we shall restrict ourselves in this monograph to nonlinear elliptic boundary value problems as well as global geometric problems In order that we may examine these prob lems we are provided with a fundamental vehicle The theory of convex bodies and hypersurfaces In this book we systematically present a series of centrally significant results obtained in the second half of the twentieth century up to the present time Particular attention is given to profound interconnections between various divisions in nonlinear analysis The theory of convex functions and bodies plays a crucial role because the ellipticity of differential equations is closely connected with the local and global convexity properties of their solutions Therefore it is necessary to have a sufficiently large amount

of material devoted to the theory of convex bodies and functions and their connections with partial differential equations

Geometric Aspects of Functional Analysis Vitali D. Milman,Gideon Schechtman,2007-04-27 This collection of original papers related to the Israeli GAFA seminar on Geometric Aspects of Functional Analysis during the years 2004 2005 reflects the general trends of the theory and are a source of inspiration for research Most of the papers deal with different aspects of the Asymptotic Geometric Analysis ranging from classical topics in the geometry of convex bodies to the study of sections or projections of convex bodies **Geometric Analysis and Convex Integration** Sandra Ried,2025 *Geometric Aspects of Functional Analysis* Bo'az Klartag,Shahar Mendelson,Vitali D. Milman,2012-07-25 This collection of original papers related to the Israeli GAFA seminar on Geometric Aspects of Functional Analysis from the years 2006 to 2011 continues the long tradition of the previous volumes which reflect the general trends of Asymptotic Geometric Analysis understood in a broad sense and are a source of inspiration for new research Most of the papers deal with various aspects of the theory including classical topics in the geometry of convex bodies inequalities involving volumes of such bodies or more generally logarithmically concave measures valuation theory probabilistic and isoperimetric problems in the combinatorial setting volume distribution on high dimensional spaces and characterization of classical constructions in Geometry and Analysis like the Legendre and Fourier transforms derivation and others All the papers here are original research papers **Convex Analysis and Nonlinear Geometric Elliptic Equations** Ilya J. Bakelman,1994-11-23 Investigations in modem nonlinear analysis rely on ideas methods and prob lems from various fields of mathematics mechanics physics and other applied sciences In the second half of the twentieth century many prominent ex emplary problems in nonlinear analysis were subject to intensive study and examination The united ideas and methods of differential geometry topology differential equations and functional analysis as well as other areas of research in mathematics were successfully applied towards the complete solution of com plex problems in nonlinear analysis It is not possible to encompass in the scope of one book all concepts ideas methods and results related to nonlinear analysis Therefore we shall restrict ourselves in this monograph to nonlinear elliptic boundary value problems as well as global geometric problems In order that we may examine these prob lems we are provided with a fundamental vehicle The theory of convex bodies and hypersurfaces In this book we systematically present a series of centrally significant results obtained in the second half of the twentieth century up to the present time Particular attention is given to profound interconnections between various divisions in nonlinear analysis The theory of convex functions and bodies plays a crucial role because the ellipticity of differential equations is closely connected with the local and global convexity properties of their solutions Therefore it is necessary to have a sufficiently large amount of material devoted to the theory of convex bodies and functions and their connections with partial differential equations **Methods of Geometric Analysis in Extension and Trace Problems** Alexander Brudnyi,Prof. Yuri Brudnyi Technion R&D Foundation Ltd,2011-10-07 The book presents a comprehensive exposition of extension results for maps between different geometric

objects and of extension trace results for smooth functions on subsets with no a priori differential structure Whitney problems The account covers development of the area from the initial classical works of the first half of the 20th century to the flourishing period of the last decade Seemingly very specific these problems have been from the very beginning a powerful source of ideas concepts and methods that essentially influenced and in some cases even transformed considerable areas of analysis Aside from the material linked by the aforementioned problems the book also is unified by geometric analysis approach used in the proofs of basic results This requires a variety of geometric tools from convex and combinatorial geometry to geometry of metric space theory to Riemannian and coarse geometry and more The necessary facts are presented mostly with detailed proofs to make thebook accessible to a wide audience **A Geometric Analysis of Convex Demixing** Michael Brian McCoy,Joel A. Tropp,California Institute of Technology. Division of Engineering and Applied Science,2013 *Geometric Aspects of Functional Analysis* Bo'az Klartag,Emanuel Milman,2014-10-08 As in the previous Seminar Notes the current volume reflects general trends in the study of Geometric Aspects of Functional Analysis Most of the papers deal with different aspects of Asymptotic Geometric Analysis understood in a broad sense many continue the study of geometric and volumetric properties of convex bodies and log concave measures in high dimensions and in particular the mean norm mean width metric entropy spectral gap thin shell and slicing parameters with applications to Dvoretzky and Central Limit type results The study of spectral properties of various systems matrices operators and potentials is another central theme in this volume As expected probabilistic tools play a significant role and probabilistic questions regarding Gaussian noise stability the Gaussian Free Field and First Passage Percolation are also addressed The historical connection to the field of Classical Convexity is also well represented with new properties and applications of mixed volumes The interplay between the real convex and complex pluri subharmonic settings continues to manifest itself in several additional articles All contributions are original research papers and were subject to the usual refereeing standards **Lectures on Convex Geometry** Daniel Hug,Wolfgang Weil,2020-08-27 This book provides a self contained introduction to convex geometry in Euclidean space After covering the basic concepts and results it develops Brunn Minkowski theory with an exposition of mixed volumes the Brunn Minkowski inequality and some of its consequences including the isoperimetric inequality Further central topics are then treated such as surface area measures projection functions zonoids and geometric valuations Finally an introduction to integral geometric formulas in Euclidean space is provided The numerous exercises and the supplementary material at the end of each section form an essential part of the book Convexity is an elementary and natural concept It plays a key role in many mathematical fields including functional analysis optimization probability theory and stochastic geometry Paving the way to the more advanced and specialized literature the material will be accessible to students in the third year and can be covered in one semester **Alice and Bob Meet Banach** Guillaume Aubrun,Stanisław J. Szarek,2017-08-30 The quest to build a quantum computer is arguably one of the major scientific and

technological challenges of the twenty first century and quantum information theory QIT provides the mathematical framework for that quest Over the last dozen or so years it has become clear that quantum information theory is closely linked to geometric functional analysis Banach space theory operator spaces high dimensional probability a field also known as asymptotic geometric analysis AGA In a nutshell asymptotic geometric analysis investigates quantitative properties of convex sets or other geometric structures and their approximate symmetries as the dimension becomes large This makes it especially relevant to quantum theory where systems consisting of just a few particles naturally lead to models whose dimension is in the thousands or even in the billions Alice and Bob Meet Banach is aimed at multiple audiences connected through their interest in the interface of QIT and AGA at quantum information researchers who want to learn AGA or apply its tools at mathematicians interested in learning QIT or at least the part of QIT that is relevant to functional analysis convex geometry random matrix theory and related areas and at beginning researchers in either field Moreover this user friendly book contains numerous tables and explicit estimates with reasonable constants when possible which make it a useful reference even for established mathematicians generally familiar with the subject   **Geometric Aspects of Functional Analysis** Vitali D. Milman,Gideon Schechtman,2004-08-30 The Israeli GAFA seminar on Geometric Aspect of Functional Analysis during the years 2002 2003 follows the long tradition of the previous volumes It reflects the general trends of the theory Most of the papers deal with different aspects of the Asymptotic Geometric Analysis In addition the volume contains papers on related aspects of Probability classical Convexity and also Partial Differential Equations and Banach Algebras There are also two expository papers on topics which proved to be very much related to the main topic of the seminar One is Statistical Learning Theory and the other is Models of Statistical Physics All the papers of this collection are original research papers   Geometric Analysis of the Condition of the Convex Feasibility Problem Dennis Amelunxen,2011

Methods of Geometric Analysis in Extension and Trace Problems Alexander Brudnyi,Prof. Yuri Brudnyi Technion R&D Foundation Ltd,2011-10-07 The book presents a comprehensive exposition of extension results for maps between different geometric objects and of extension trace results for smooth functions on subsets with no a priori differential structure Whitney problems The account covers development of the area from the initial classical works of the first half of the 20th century to the flourishing period of the last decade Seemingly very specific these problems have been from the very beginning a powerful source of ideas concepts and methods that essentially influenced and in some cases even transformed considerable areas of analysis Aside from the material linked by the aforementioned problems the book also is unified by geometric analysis approach used in the proofs of basic results This requires a variety of geometric tools from convex and combinatorial geometry to geometry of metric space theory to Riemannian and coarse geometry and more The necessary facts are presented mostly with detailed proofs to make thebook accessible to a wide audience

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