

Monographs
in Mathematics

Victor Palamodov

Reconstructive Integral Geometry



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Reconstructive Integral Geometry

Michael Seilmaier



Reconstructive Integral Geometry:

Reconstructive Integral Geometry Victor Palamodov, 2012-12-06 One hundred years ago 1904 Hermann Minkowski posed a problem to reconstruct an even function I on the sphere S^2 from knowledge of the integrals $\int_{C \subset S^2} f(x) dx$ over big circles C Paul Funk found an explicit reconstruction formula for I from data of big circle integrals Johann Radon studied a similar problem for the Euclidean plane and space The interest in reconstruction problems like Minkowski Funk's and Radon's has grown tremendously in the last four decades stimulated by the spectrum of new modalities of image reconstruction These are X-ray MRI gamma and positron radiography ultrasound seismic tomography electron microscopy synthetic radar imaging and others The physical principles of these methods are very different however their mathematical models and solution methods have very much in common The umbrella name reconstructive integral geometry is used to specify the variety of these problems and methods The objective of this book is to present in a uniform way the scope of well known and recent results and methods in the reconstructive integral geometry We do not touch here the problems arising in adaptation of analytic methods to numerical reconstruction algorithms We refer to the books [61, 62] which are focused on these problems Various aspects of interplay of integral geometry and differential equations are discussed in Chapters 7 and 8 The results presented here are partially new

Reconstruction from Integral Data Victor Palamodov, 2016-04-27 Reconstruction of a function from data of integrals is used for problems arising in diagnostics including x-ray positron radiography ultrasound scattering sonar seismic impedance wave tomography crystallography photoacoustics photoelastics and strain tomography *Reconstruction from Integral Data* presents both long standing and recent results

Complex-Analytic Methods in Reconstructive Integral Geometry Nicholas McMurray Hoell, 2011 This serves as a prelude to a new result for an explicit formula for inverting the attenuated ray transform in such settings modulo a Fredholm error We close with an appendix on containing all useful geometrical jargon used throughout

Offbeat Integral Geometry on Symmetric Spaces Valery V. Volchkov, Vitaly V. Volchkov, 2013-01-30 The book demonstrates the development of integral geometry on domains of homogeneous spaces since 1990 It covers a wide range of topics including analysis on multidimensional Euclidean domains and Riemannian symmetric spaces of arbitrary ranks as well as recent work on phase space and the Heisenberg group The book includes many significant recent results some of them hitherto unpublished among which can be pointed out uniqueness theorems for various classes of functions far reaching generalizations of the two radii problem the modern versions of the Pompeiu problem and explicit reconstruction formulae in problems of integral geometry These results are intriguing and useful in various fields of contemporary mathematics The proofs given are minimal in the sense that they involve only those concepts and facts which are indispensable for the essence of the subject Each chapter provides a historical perspective on the results presented and includes many interesting open problems Readers will find this book relevant to harmonic analysis on homogeneous spaces invariant spaces theory integral transforms on symmetric spaces and

the Heisenberg group integral equations special functions and transmutation operators theory Mathematical Methods in Image Reconstruction Frank Natterer, Frank Wuebbeling, 2001-01-01 This book describes the state of the art of the mathematical theory and numerical analysis of imaging Some of the applications covered in the book include computerized tomography magnetic resonance imaging emission tomography electron microscopy ultrasound transmission tomography industrial tomography seismic tomography impedance tomography and NIR imaging Reconstruction from Integral Data Victor Palamodov, 2016-04-27 Reconstruction of a function from data of integrals is used for problems arising in diagnostics including x ray positron radiography ultrasound scattering sonar seismic impedance wave tomography crystallography photo thermo acoustics photoelastics and strain tomography Reconstruction from Integral Data presents both long standing and r

Integral Geometry and Tomography Andrew Markoe, 2006 This volume consists of a collection of papers that brings together fundamental research in Radon transforms integral geometry and tomography It grew out of the Special Session at a Sectional Meeting of the American Mathematical Society in 2004 The book contains very recent work of some of the top researchers in the field The articles in the book deal with the determination of properties of functions on a manifold by integral theoretic methods or by determining the geometric structure of subsets of a manifold by analytic methods Of particular concern are ways of reconstructing an unknown function from some of its projections Radon transforms were developed at the beginning of the twentieth century by researchers who were motivated by problems in differential geometry mathematical physics and partial differential equations Later medical applications of these transforms produced breakthroughs in imaging technology that resulted in the 1979 Nobel Prize in Physiology and Medicine for the development of computerized tomography Today the subject boasts substantial cross disciplinary interactions both in pure and applied mathematics as well as medicine engineering biology physics geosciences and industrial testing Therefore this volume should be of interest to a wide spectrum of researchers both in mathematics and in other fields **The Mathematical Legacy of Leon Ehrenpreis** Irene Sabadini, Daniele C. Struppa, 2012-04-23 Leon Ehrenpreis has been one of the leading mathematicians in the twentieth century His contributions to the theory of partial differential equations were part of the golden era of PDEs and led him to what is maybe his most important contribution the Fundamental Principle which he announced in 1960 and fully demonstrated in 1970 His most recent work on the other hand focused on a novel and far reaching understanding of the Radon transform and offered new insights in integral geometry Leon Ehrenpreis died in 2010 and this volume collects writings in his honor by a cadre of distinguished mathematicians many of which were his collaborators Photoacoustic Imaging and Spectroscopy Lihong Wang, 2017-12-19 Photoacoustics promises to revolutionize medical imaging and may well make as dramatic a contribution to modern medicine as the discovery of the x ray itself once did Combining electromagnetic and ultrasonic waves synergistically photoacoustics can provide deep speckle free imaging with high electromagnetic contrast at high ultrasonic resolution and without any health risk While

photoacoustic imaging is probably the fastest growing biomedical imaging technology this book is the first comprehensive volume in this emerging field covering both the physics and the remarkable noninvasive applications that are changing diagnostic medicine Bringing together the leading pioneers in this field to write about their own work Photoacoustic Imaging and Spectroscopy is the first to provide a full account of the latest research and developing applications in the area of biomedical photoacoustics Photoacoustics can provide functional sensing of physiological parameters such as the oxygen saturation of hemoglobin It can also provide high contrast functional imaging of angiogenesis and hypermetabolism in tumors in vivo Discussing these remarkable noninvasive applications and so much more this reference is essential reading for all researchers in medical imaging and those clinicians working at the cutting edge of modern biotechnology to develop diagnostic techniques that can save many lives and just as importantly do no harm

Operator Algebras, Toeplitz Operators and Related Topics Wolfram Bauer, Roland Duduchava, Sergei Grudsky, Marinus A. Kaashoek, 2020-09-01 This book features a collection of up to date research papers that study various aspects of general operator algebra theory and concrete classes of operators including a range of applications Most of the papers included were presented at the International Workshop on Operator Algebras Toeplitz Operators and Related Topics in Boca del Rio Veracruz Mexico in November 2018 The conference which was attended by more than 30 leading experts in the field was held in celebration of Nikolai Vasilevski s 70th birthday and the contributions are dedicated to him

Integral Geometry and Radon Transforms Sigurdur Helgason, 2010-10-27 In this text integral geometry deals with Radon s problem of representing a function on a manifold in terms of its integrals over certain submanifolds hence the term the Radon transform Examples and far reaching generalizations lead to fundamental problems such as i injectivity ii inversion formulas iii support questions iv applications e g to tomography partial differential equations and group representations For the case of the plane the inversion theorem and the support theorem have had major applications in medicine through tomography and CAT scanning While containing some recent research the book is aimed at beginning graduate students for classroom use or self study A number of exercises point to further results with documentation From the reviews Integral Geometry is a fascinating area where numerous branches of mathematics meet together the contents of the book is concentrated around the duality and double vibration which is realized through the masterful treatment of a variety of examples the book is written by an expert who has made fundamental contributions to the area Boris Rubin Louisiana State University

Integral Geometry and Tomography Eric Grinberg, Eric Todd Quinto, 1990 Contains the proceedings of an AMS IMS SIAM Joint Summer Research Conference on Integral Geometry and Tomography held in June 1989 at Humboldt State University in Arcata California This book features articles that range over such diverse areas as combinatorics geometric inequalities micro local analysis group theory and harmonic analysis

Cone Beam Computed Tomography Chris C. Shaw, 2014-02-14 Conventional computed tomography CT techniques employ a narrow array of x ray detectors and a fan shaped x ray beam to rotate around the patient to produce

images of thin sections of the patient Large sections of the body are covered by moving the patient into the rotating x ray detector and x ray source gantry Cone beam CT is an alternative to

Mathematical Problems of Tomography Izrail' Moiseevich Gel'fand, Semen Grigor'evich Gindikin, 1990 As early as 1917 Radon derived an explicit formula for the reconstruction of a function on the plane given its integrals over all lines In the late 1960s the first applications of the Radon formula appeared in radio astronomy and then in electron micrography The use of the Radon formula for constructing tomograms made possible by the advent of the computer saw its first use in clinical medicine in 1970 and earned its developers the Nobel Prize in medicine

Integral Geometry and Convolution Equations V.V. Volchkov, 2012-12-06 Integral geometry deals with the problem of determining functions by their integrals over given families of sets These integrals define the corresponding integral transform and one of the main questions in integral geometry asks when this transform is injective On the other hand when we work with complex measures or forms operators appear whose kernels are non trivial but which describe important classes of functions Most of the questions arising here relate in one way or another to the convolution equations Some of the well known publications in this field include the works by J Radon F John J Delsarte L Zalcman C A Berenstein M L Agranovsky and recent monographs by L Hormander and S Helgason Until recently research in this area was carried out mostly using the technique of the Fourier transform and corresponding methods of complex analysis In recent years the present author has worked out an essentially different methodology based on the description of various function spaces in terms of expansions in special functions which has enabled him to establish best possible results in several well known problems

Radon Transforms, Geometry, and Wavelets Gestur Ólafsson, 2008 This volume is based on two special sessions held at the AMS Annual Meeting in New Orleans in January 2007 and a satellite workshop held in Baton Rouge on January 4-5 2007 It consists of invited expositions that together represent a broad spectrum of fields stressing surprising interactions and connections between areas that are normally thought of as disparate The main topics are geometry and integral transforms On the one side are harmonic analysis symmetric spaces representation theory the groups include continuous and discrete finite and infinite compact and non compact operator theory PDE and mathematical probability Moving in the applied direction we encounter wavelets fractals and engineering topics such as frames and signal and image processing The subjects covered in this book form a unified whole and they stand at the crossroads of pure and applied mathematics The articles cover a broad range in harmonic analysis with the main themes related to integral geometry the Radon transform wavelets and frame theory These themes can loosely be grouped together as follows Frame Theory and Applications Harmonic Analysis and Function Spaces Harmonic Analysis and Number Theory Integral Geometry and Radon Transforms Multiresolution Analysis Wavelets and Applications

Analele Universității Din Craiova, 2004

Cosmic Research, 1993 *Integral Geometry and Valuations* Semyon Alesker, Joseph H.G. Fu, 2014-10-09 In the last years there has been significant progress in the theory of valuations which in turn has led to important achievements in

integral geometry This book originated from two courses delivered by the authors at the CRM and provides a self contained introduction to these topics covering most of the recent advances The first part by Semyon Alesker provides an introduction to the theory of convex valuations with emphasis on recent developments In particular it presents the new structures on the space of valuations discovered after Alesker s irreducibility theorem The newly developed theory of valuations on manifolds is also described In the second part Joseph H G Fu gives a modern introduction to integral geometry in the sense of Blaschke and Santal The approach is new and based on the notions and tools presented in the first part This original viewpoint not only enlightens the classical integral geometry of euclidean space but it also allows the computation of kinematic formulas in other geometries such as hermitian spaces The book will appeal to graduate students and interested researchers from related fields including convex stochastic and differential geometry *Mathematical Reviews* ,2007

Whispering the Strategies of Language: An Psychological Journey through **Reconstructive Integral Geometry**

In a digitally-driven earth where displays reign great and immediate communication drowns out the subtleties of language, the profound strategies and emotional nuances hidden within phrases usually get unheard. However, situated within the pages of **Reconstructive Integral Geometry** a fascinating fictional prize sporting with raw feelings, lies an extraordinary journey waiting to be undertaken. Composed by an experienced wordsmith, that wonderful opus attracts visitors on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the material of each and every word. Within the mental depths of this touching review, we can embark upon a heartfelt exploration of the book is key themes, dissect their captivating writing style, and yield to the powerful resonance it evokes deep within the recesses of readers hearts.

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