



Functional Analysis on the Eve of the 21st Century

In Honor of the Eightieth
Birthday of I.M. Gelfand
Volume I

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Functional Analysis On The Eve Of T Volume 1

**Pierre Albin, Dmitry Jakobson, Frédéric
Rochon**

Functional Analysis On The Eve Of T Volume 1:

Geometry, Analysis and Probability Jean-Benoît Bost, Helmut Hofer, François Labourie, Yves Le Jan, Xiaonan Ma, Weiping Zhang, 2017-04-26 This volume presents original research articles and extended surveys related to the mathematical interest and work of Jean Michel Bismut His outstanding contributions to probability theory and global analysis on manifolds have had a profound impact on several branches of mathematics in the areas of control theory mathematical physics and arithmetic geometry Contributions by K Behrend N Bergeron S K Donaldson J Dub dat B Duplantier G Faltings E Getzler G Kings R Mazzeo J Millson C Moeglin W M ller R Rhodes D R ssler S Sheffield A Teleman G Tian K I Yoshikawa H Weiss W Werner The collection is a valuable resource for graduate students and researchers in these fields *Novikov Conjectures, Index Theorems, and Rigidity: Volume 1* Steven C. Ferry, Andrew Ranicki, Jonathan M. Rosenberg, London Mathematical Society, 1995-11-23 The Novikov Conjecture is the single most important unsolved problem in the topology of high dimensional non simply connected manifolds These volumes are the outgrowth of a conference held at the Mathematisches Forschungsinstitut Oberwolfach Germany in September 1993 on the subject of Novikov conjectures index theorems and rigidity **Low Dimensional Topology and Number Theory** Masanori Morishita, Hiroaki Nakamura, Jun Ueki, 2025-03-02 This book is the result of research initiatives formed during the workshop Low Dimensional Topology and Number Theory XIII at Kyushu University in 2022 It is also dedicated to the memory of Professor Toshie Takata who has been a main figure of the session chairs for the series of annual workshops since 2009 The activity was aimed at understanding and deepening recent developments of lively and fruitful interactions between low dimensional topology and number theory over the past decades In this volume of proceedings the reader will find research papers as well as survey articles including open problems at the interface between classical and quantum topology and algebraic and analytic number theory written by leading experts and active researchers in the respective fields Topics include among others the strong slope conjecture Kashiwara Vergne Lie algebra braids and fibered double branched covers of 3 manifolds Temperley Lieb Jones category and conformal blocks WRT invariants and false theta functions the colored Jones polynomial of the figure eight knot potential functions and A polynomials l adic Galois polylogarithms Dijkgraaf Witten invariants in Bloch groups analogies between knots and primes in arithmetic topology normalized Jones polynomials for rational links Iwasawa main conjecture Weber s class number problem The book provides a valuable resource for researchers and graduate students interested in topics related to both low dimensional topology and number theory *Surveys on Surgery Theory, Volume 1* Sylvain Cappell, Andrew Ranicki, Jonathan Rosenberg, 2014-09-08 Surgery theory the basis for the classification theory of manifolds is now about forty years old There have been some extraordinary accomplishments in that time which have led to enormously varied interactions with algebra analysis and geometry Workers in many of these areas have often lamented the lack of a single source that surveys surgery theory and its applications Indeed no one person could write such a survey The sixtieth birthday

of C T C Wall one of the leaders of the founding generation of surgery theory provided an opportunity to rectify the situation and produce a comprehensive book on the subject Experts have written state of the art reports that will be of broad interest to all those interested in topology not only graduate students and mathematicians but mathematical physicists as well Contributors include J Milnor S Novikov W Browder T Lance E Brown M Kreck J Klein M Davis J Davis I Hambleton L Taylor C Stark E Pedersen W Mio J Levine K Orr J Roe J Milgram and C Thomas New Horizons in pro-p Groups Marcus du Sautoy, Dan Segal, Aner Shalev, 2012-12-06 A pro p group is the inverse limit of some system of finite p groups that is of groups of prime power order where the prime conventionally denoted p is fixed Thus from one point of view to study a pro p group is the same as studying an infinite family of finite groups but a pro p group is also a compact topological group and the compactness works its usual magic to bring infinite problems down to manageable proportions The p adic integers appeared about a century ago but the systematic study of pro p groups in general is a fairly recent development Although much has been discovered many avenues remain to be explored the purpose of this book is to present a coherent account of the considerable achievements of the last several years and to point the way forward Thus our aim is both to stimulate research and to provide the comprehensive background on which that research must be based The chapters cover a wide range In order to ensure the most authoritative account we have arranged for each chapter to be written by a leading contributor or contributors to the topic in question Pro p groups appear in several different though sometimes overlapping contexts

Visions in Mathematics Noga Alon, Jean Bourgain, Alain Connes, Misha Gromov, Vitali D. Milman, 2011-03-31 Visions in Mathematics Towards 2000 was one of the most remarkable mathematical meetings in recent years It was held in Tel Aviv from August 25th to September 3rd 1999 and united some of the leading mathematicians worldwide The goals of the conference were to discuss the importance the methods the past and the future of mathematics as we enter the 21st century and to consider the connection between mathematics and related areas The aims of the conference are reflected in the present set of survey articles documenting the state of art and future prospects in many branches of mathematics of current interest This is the first part of a two volume set that will serve any research mathematician or advanced student as an overview and guideline through the multifaceted body of mathematical research in the present and near future Higher Spin Gauge Theories Lars Brink, Marc Henneaux, Mikhail A Vasiliev, 2016-11-01 Symmetries play a fundamental role in physics Non Abelian gauge symmetries are the symmetries behind theories for massless spin 1 particles while the reparametrization symmetry is behind Einstein's gravity theory for massless spin 2 particles In supersymmetric theories these particles can be connected also to massless fermionic particles Does Nature stop at spin 2 or can there also be massless higher spin theories In the past strong indications have been given that such theories do not exist However in recent times ways to evade those constraints have been found and higher spin gauge theories have been constructed With the advent of the AdS CFT duality correspondence even stronger indications have been given that higher spin gauge theories

play an important role in fundamental physics All these issues were discussed at a recent international workshop in Singapore where the leading scientists in the field participated This volume presents an up to date detailed overview of the theories including its historic background as well as the latest accomplishments in understanding the foundational properties of higher spin physics

Strong And Electroweak Matter 2000 - Proceedings Of The Sewm2000 Meeting Christiaan P Korthals Altes,2001-07-02 This book contains articles by experts on the plasma phase of quantum chromodynamics and the plasma phase of electroweak interactions The former plasma phase is being tested at RHIC Brookhaven and has been tested at CERN Both plasmas have played roles in the development of the Universe since the Big Bang A third topic is that of the high density colour superconductive state of matter which may be present in the core of neutron stars

Hyperbolic Manifolds and Discrete Groups Michael Kapovich,2001 Hyperbolic Manifolds and Discrete Groups is at the crossroads of several branches of mathematics hyperbolic geometry discrete groups 3 dimensional topology geometric group theory and complex analysis The main focus throughout the text is on the Big Monster i e on Thurston s hyperbolization theorem which has not only completely changes the landscape of 3 dimensional topology and Kleinian group theory but is one of the central results of 3 dimensional topology The book is fairly self contained replete with beautiful illustrations a rich set of examples of key concepts numerous exercises and an extensive bibliography and index It should serve as an ideal graduate course seminar text or as a comprehensive reference

Strong and Electroweak Matter 2000 C. P. Korthals Altes,2001 This book contains articles by experts on the plasma phase of quantum chromodynamics and the plasma phase of electroweak interactions The former plasma phase is being tested at RHIC Brookhaven and has been tested at CERN Both plasmas have played roles in the development of the Universe since the Big Bang A third topic is that of the high density colour superconductive state of matter which may be present in the core of neutron stars Contents Color Superconductivity in Compact Stars M Alford et al Aspects of Parity CP and Time Reversal Violation in Hot QCD D Kharzeev et al Electroweak Phase Transition Beyond the Standard Model M Laine Aspects of Semi Classical Transport Theory for QCD D Litim Debye Screening in the QCD Plasma O Philipsen Isospin Matter D Son The Electrical Conductivity in High Temperature QED L Bettencourt Phase Transition in QCD H Satz Time Dependent Effective Actions at Finite Temperature T Evans Nonequilibrium Dynamics in Gauge Theories J Baacke Bubble Wall Velocity in the MSSM P John Sphalerons with Two Higgs Doublets M Hindmarsh and other papers Readership PhD students researchers and academics in particle physics

Motives, Quantum Field Theory, and Pseudodifferential Operators Alan L. Carey,2010 This volume contains articles related to the conference Motives Quantum Field Theory and Pseudodifferential Operators held at Boston University in June 2008 with partial support from the Clay Mathematics Institute Boston University and the National Science Foundation There are deep but only partially understood connections between the three conference fields so this book is intended both to explain the known connections and to offer directions for further research In keeping with the organization

of the conference this book contains introductory lectures on each of the conference themes and research articles on current topics in these fields The introductory lectures are suitable for graduate students and new Ph D s in both mathematics and theoretical physics as well as for senior researchers since few mathematicians are expert in any two of the conference areas Among the topics discussed in the introductory lectures are the appearance of multiple zeta values both as periods of motives and in Feynman integral calculations in perturbative QFT the use of Hopf algebra techniques for renormalization in QFT and regularized traces of pseudodifferential operators The motivic interpretation of multiple zeta values points to a fundamental link between motives and QFT and there are strong parallels between regularized traces and Feynman integral techniques The research articles cover a range of topics in areas related to the conference themes including geometric Hopf algebraic analytic motivic and computational aspects of quantum field theory and mirror symmetry There is no unifying theory of the conference areas at present so the research articles present the current state of the art pointing towards such a unification

Infinite Dimensional Kähler Manifolds Alan Huckleberry, Tilmann Wurzbacher, 2001-09-01 Infinite dimensional manifolds Lie groups and algebras arise naturally in many areas of mathematics and physics Having been used mainly as a tool for the study of finite dimensional objects the emphasis has changed and they are now frequently studied for their own independent interest On the one hand this is a collection of closely related articles on infinite dimensional Kähler manifolds and associated group actions which grew out of a DMV Seminar on the same subject On the other hand it covers significantly more ground than was possible during the seminar in Oberwolfach and is in a certain sense intended as a systematic approach which ranges from the foundations of the subject to recent developments It should be accessible to doctoral students and as well researchers coming from a wide range of areas The initial chapters are devoted to a rather selfcontained introduction to group actions on complex and symplectic manifolds and to Borel Weil theory in finite dimensions These are followed by a treatment of the basics of infinite dimensional Lie groups their actions and their representations Finally a number of more specialized and advanced topics are discussed e g Borel Weil theory for loop groups aspects of the Virasoro algebra gauge group actions and determinant bundles and second quantization and the geometry of the infinite dimensional Grassmann manifold

Advances in Econometrics: Volume 1 Christopher A. Sims, 1996-03-07 The first of a two volume set of articles reflecting the current state of research in econometrics

Heisenberg Calculus and Spectral Theory of Hypoelliptic Operators on Heisenberg Manifolds Raphael Ponge, 2008 This memoir deals with the hypoelliptic calculus on Heisenberg manifolds including CR and contact manifolds In this context the main differential operators at stake include the Hormander s sum of squares the Kohn Laplacian the horizontal sublaplacian the CR conformal operators of Gover Graham and the contact Laplacian These operators cannot be elliptic and the relevant pseudodifferential calculus to study them is provided by the Heisenberg calculus of Beals Greiner and Taylor

Theory and Applications of Special Functions

Mourad E. H. Ismail, Erik Koelink, 2006-03-30 This volume Theory and Applications of Special Functions is dedicated to Mizan

Rahman in honoring him for the many important contributions to the theory of special functions that he has made over the years and still continues to make Some of the papers were presented at a special session of the American Mathematical Society Annual Meeting in Baltimore Maryland in January 2003 organized by Mourad Ismail Mizan Rahman's contributions are not only contained in his own papers but also indirectly in other papers for which he supplied useful and often essential information We refer to the paper on his mathematics in this volume for more information This paper contains some personal recollections and tries to describe Mizan Rahman's literary writings in his mother tongue Bengali An even more personal paper on Mizan Rahman is the letter by his sons whom we thank for allowing us to reproduce it in this book The theory of special functions is very much an application driven field of mathematics This is a very old field dating back to the 18th century when physicists and mathematicians were looking for solutions of the fundamental differential equations of mathematical physics Since then the field has grown enormously and this book reflects only part of the known applications

The Geometry of Infinite-Dimensional Groups Boris Khesin, Robert Wendt, 2008-09-28 This monograph gives an overview of various classes of infinite dimensional Lie groups and their applications in Hamiltonian mechanics fluid dynamics integrable systems gauge theory and complex geometry The text includes many exercises and open questions

Geometric and Spectral Analysis Pierre Albin, Dmitry Jakobson, Frédéric Rochon, 2014-12-01 In 2012 the Centre de Recherches Mathématiques was at the center of many interesting developments in geometric and spectral analysis with a thematic program on Geometric Analysis and Spectral Theory followed by a thematic year on Moduli Spaces Extremality and Global Invariants This volume contains original contributions as well as useful survey articles of recent developments by participants from three of the workshops organized during these programs Geometry of Eigenvalues and Eigenfunctions held from June 4-8 2012 Manifolds of Metrics and Probabilistic Methods in Geometry and Analysis held from July 2-6 2012 and Spectral Invariants on Non compact and Singular Spaces held from July 23-27 2012 The topics covered in this volume include Fourier integral operators eigenfunctions probability and analysis on singular spaces complex geometry Kähler Einstein metrics analytic torsion and Strichartz estimates This book is co published with the Centre de Recherches Mathématiques

Doing Mathematics: Convention, Subject, Calculation, Analogy (2nd Edition) Martin H Krieger, 2015-01-15 Doing Mathematics discusses some ways mathematicians and mathematical physicists do their work and the subject matters they uncover and fashion The conventions they adopt the subject areas they delimit what they can prove and calculate about the physical world and the analogies they discover and employ all depend on the mathematics what will work out and what won't The cases studied include the central limit theorem of statistics the sound of the shape of a drum the connections between algebra and topology and the series of rigorous proofs of the stability of matter The many and varied solutions to the two dimensional Ising model of ferromagnetism make sense as a whole when they are seen in an analogy developed by Richard Dedekind in the 1880s to algebraicize Riemann's function theory by Robert Langlands program in number theory and representation

theory and by the analogy between one dimensional quantum mechanics and two dimensional classical statistical mechanics In effect we begin to see an identity in a manifold presentation of profiles as the phenomenologists would say This second edition deepens the particular examples it describe the practical role of mathematical rigor it suggests what might be a mathematician s philosophy of mathematics and it shows how an ugly first proof or derivation embodies essential features only to be appreciated after many subsequent proofs Natural scientists and mathematicians trade physical models and abstract objects remaking them to suit their needs discovering new roles for them as in the recent case of the Painlevé transcendents the Tracy Widom distribution and Toeplitz determinants And mathematics has provided the models and analogies the ordinary language for describing the everyday world the structure of cities or God s infinitude

Advances in Geometry Jean-Luc Brylinski, Ranee Brylinski, Victor Nistor, 2012-12-06 This book is an outgrowth of the activities of the Center for Geometry and Mathematical Physics CGMP at Penn State from 1996 to 1998 The Center was created in the Mathematics Department at Penn State in the fall of 1996 for the purpose of promoting and supporting the activities of researchers and students in and around geometry and physics at the university The CGMP brings many visitors to Penn State and has ties with other research groups it organizes weekly seminars as well as annual workshops The book contains 17 contributed articles on current research topics in a variety of fields symplectic geometry quantization quantum groups algebraic geometry algebraic groups and invariant theory and character istic classes Most of the 20 authors have talked at Penn State about their research Their articles present new results or discuss interesting perspectives on recent work All the articles have been refereed in the regular fashion of excellent scientific journals Symplectic geometry quantization and quantum groups is one main theme of the book Several authors study deformation quantization As tashkevich generalizes Karabegov s deformation quantization of Kahler manifolds to symplectic manifolds admitting two transverse polarizations and studies the moment map in the case of semisimple coadjoint orbits Bieliavsky constructs an explicit star product on holonomy reducible sym metric coadjoint orbits of a simple Lie group and he shows how to construct a star representation which has interesting holomorphic properties

Symmetry: Representation Theory and Its Applications Roger Howe, Markus Hunziker, Jeb F. Willenbring, 2015-01-04 Nolan Wallach s mathematical research is remarkable in both its breadth and depth His contributions to many fields include representation theory harmonic analysis algebraic geometry combinatorics number theory differential equations Riemannian geometry ring theory and quantum information theory The touchstone and unifying thread running through all his work is the idea of symmetry This volume is a collection of invited articles that pay tribute to Wallach s ideas and show symmetry at work in a large variety of areas The articles predominantly expository are written by distinguished mathematicians and contain sufficient preliminary material to reach the widest possible audiences Graduate students mathematicians and physicists interested in representation theory and its applications will find many gems in this volume that have not appeared in print elsewhere Contributors D Barbasch K Baur O Bucicovschi

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