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HEAT KERNELS AND DIRAC OPERATORS



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Daniela Niemeyer



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Heat Kernels and Dirac Operators Nicole Berline, Ezra Getzler, Michèle Vergne, 2003-12-08 In the first edition of this book simple proofs of the Atiyah Singer Index Theorem for Dirac operators on compact Riemannian manifolds and its generalizations due to the authors and J M Bismut were presented using an explicit geometric construction of the heat kernel of a generalized Dirac operator the new edition makes this popular book available to students and researchers in an attractive paperback

The Dirac Spectrum Nicolas Ginoux, 2009-05-30 This volume surveys the spectral properties of the spin Dirac operator After a brief introduction to spin geometry it presents the main known estimates for Dirac eigenvalues on compact manifolds with or without boundaries

Lie Groups, Geometry, and Representation Theory Victor G. Kac, Vladimir L. Popov, 2018-12-12 This volume dedicated to the memory of the great American mathematician Bertram Kostant May 24 1928 February 2 2017 is a collection of 19 invited papers by leading mathematicians working in Lie theory representation theory algebra geometry and mathematical physics Kostant's fundamental work in all of these areas has provided deep new insights and connections and has created new fields of research This volume features the only published articles of important recent results of the contributors with full details of their proofs Key topics include Poisson structures and potentials A Alekseev A Berenstein B Hoffman Vertex algebras T Arakawa K Kawasetsu Modular irreducible representations of semisimple Lie algebras R Bezrukavnikov I Losev Asymptotic Hecke algebras A Braverman D Kazhdan Tensor categories and quantum groups A Davydov P Etingof D Nikshych Nil Hecke algebras and Whittaker D modules V Ginzburg Toeplitz operators V Guillemin A Uribe Z Wang Kashiwara crystals A Joseph Characters of highest weight modules V Kac M Wakimoto Alcove polytopes T Lam A Postnikov Representation theory of quantized Gieseker varieties I Losev Generalized Bruhat cells and integrable systems J H Liu Y Mi Almost characters G Lusztig Verlinde formulas E Meinrenken Dirac operator and equivariant index P Paradan M Vergne Modality of representations and geometry of groups V L Popov Distributions on homogeneous spaces N Ressayre Reduction of orthogonal representations J P Serre

Algebraic Geometry over the Complex Numbers Donu Arapura, 2012-02-15 This is a relatively fast paced graduate level introduction to complex algebraic geometry from the basics to the frontier of the subject It covers sheaf theory cohomology some Hodge theory as well as some of the more algebraic aspects of algebraic geometry The author frequently refers the reader if the treatment of a certain topic is readily available elsewhere but goes into considerable detail on topics for which his treatment puts a twist or a more transparent viewpoint His cases of exploration and are chosen very carefully and deliberately The textbook achieves its purpose of taking new students of complex algebraic geometry through this a deep yet broad introduction to a vast subject eventually bringing them to the forefront of the topic via a non intimidating style

Perspectives on Noncommutative Geometry Masoud Khalkhali, 2011 This volume represents the proceedings of the Noncommutative Geometry Workshop that was held as part of the thematic program on operator algebras at the Fields

Institute in May 2008 Pioneered by Alain Connes starting in the late 1970s noncommutative geometry was originally inspired by global analysis topology operator algebras and quantum physics Its main applications were to settle some long standing conjectures such as the Novikov conjecture and the Baum Connes conjecture Next came the impact of spectral geometry and the way the spectrum of a geometric operator like the Laplacian holds information about the geometry and topology of a manifold as in the celebrated Weyl law This has now been vastly generalized through Connes notion of spectral triples Finally recent years have witnessed the impact of number theory algebraic geometry and the theory of motives and quantum field theory on noncommutative geometry Almost all of these aspects are touched upon with new results in the papers of this volume This book is intended for graduate students and researchers in both mathematics and theoretical physics who are interested in noncommutative geometry and its applications

Lectures on Differential Geometry Bennett Chow, Yutze Chow, 2024-10-07 Differential geometry is a subject related to many fields in mathematics and the sciences The authors of this book provide a vertically integrated introduction to differential geometry and geometric analysis The material is presented in three distinct parts an introduction to geometry via submanifolds of Euclidean space a first course in Riemannian geometry and a graduate special topics course in geometric analysis and it contains more than enough content to serve as a good textbook for a course in any of these three topics The reader will learn about the classical theory of submanifolds smooth manifolds Riemannian comparison geometry bundles connections and curvature the Chern Gauss Bonnet formula harmonic functions eigenfunctions and eigenvalues on Riemannian manifolds minimal surfaces the curve shortening flow and the Ricci flow on surfaces This will provide a pathway to further topics in geometric analysis such as Ricci flow used by Hamilton and Perelman to solve the Poincaré and Thurston geometrization conjectures mean curvature flow and minimal submanifolds The book is primarily aimed at graduate students in geometric analysis but it will also be of interest to postdoctoral researchers and established mathematicians looking for a refresher or deeper exploration of the topic

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 Müller R Rhodes D Rössler 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

Algebraic and Analytic Microlocal Analysis Michael Hitrik, Dmitry Tamarkin, Boris Tsygan, Steve Zelditch, 2018-12-19 This book presents contributions from two workshops in algebraic and analytic microlocal analysis that took place in 2012 and 2013 at Northwestern University Featured papers expand on mini courses and talks ranging from foundational material to advanced

research level papers and new applications in symplectic geometry mathematical physics partial differential equations and complex analysis are discussed in detail Topics include Procesi bundles and symplectic reflection algebras microlocal condition for non displaceability polarized complex manifolds nodal sets of Laplace eigenfunctions geodesics in the space of Kähler metrics and partial Bergman kernels This volume is a valuable resource for graduate students and researchers in mathematics interested in understanding microlocal analysis and learning about recent research in the area Analysis, Geometry and Quantum Field Theory Clara L. Aldana, 2012 This volume contains the proceedings of the conference Analysis Geometry and Quantum Field Theory held at Potsdam University in September 2011 which honored Steve Rosenberg's 60th birthday The papers in this volume cover a wide range of areas including Quantum Field Theory Deformation Quantization Gerbes Loop Spaces Index Theory Determinants of Elliptic Operators K theory Infinite Rank Bundles and Mathematical Biology

Covariant Schrödinger Semigroups on Riemannian Manifolds Batu Güneysu, 2017-12-22 This monograph discusses covariant Schrödinger operators and their heat semigroups on noncompact Riemannian manifolds and aims to fill a gap in the literature given the fact that the existing literature on Schrödinger operators has mainly focused on scalar Schrödinger operators on Euclidean spaces so far In particular the book studies operators that act on sections of vector bundles In addition these operators are allowed to have unbounded potential terms possibly with strong local singularities The results presented here provide the first systematic study of such operators that is sufficiently general to simultaneously treat the natural operators from quantum mechanics such as magnetic Schrödinger operators with singular electric potentials and those from geometry such as squares of Dirac operators that have smooth but endomorphism valued and possibly unbounded potentials The book is largely self contained making it accessible for graduate and postgraduate students alike Since it also includes unpublished findings and new proofs of recently published results it will also be interesting for researchers from geometric analysis stochastic analysis spectral theory and mathematical physics

Twisted Isospectrality, Homological Wideness, and Isometry Gunther Cornelissen, Norbert Peyerimhoff, 2023-05-10 The question of reconstructing a geometric shape from spectra of operators such as the Laplace operator is decades old and an active area of research in mathematics and mathematical physics This book focusses on the case of compact Riemannian manifolds and in particular the question whether one can find finitely many natural operators that determine whether two such manifolds are isometric coverings The methods outlined in the book fit into the tradition of the famous work of Sunada on the construction of isospectral non isometric manifolds and thus do not focus on analytic techniques but rather on algebraic methods in particular the analogy with constructions in number theory methods from representation theory and from algebraic topology The main goal of the book is to present the construction of finitely many twisted Laplace operators whose spectrum determines covering equivalence of two Riemannian manifolds The book has a leisure pace and presents details and examples that are hard to find in the literature concerning fiber products of manifolds and orbifolds the distinction between the spectrum and the spectral

zeta function for general operators strong isospectrality twisted Laplacians the action of isometry groups on homology groups monomial structures on group representations geometric and group theoretical realisation of coverings with wreath products as covering groups and class field theory for manifolds The book contains a wealth of worked examples and open problems After perusing the book the reader will have a comfortable working knowledge of the algebraic approach to isospectrality This is an open access book Mapping Analytic Surgery to Homology, Higher Rho Numbers and Metrics of Positive Scalar Curvature Paolo Piazza, Thomas Schick, Vito Felice Zenobi, 2025-05-16 View the abstract **Variations on a Theme of Borel** Shmuel Weinberger, 2022-12-08 Explains using examples the central role of the fundamental group in the geometry global analysis and topology of manifolds Spectral Geometry Alex Barnett, 2012 This volume contains the proceedings of the International Conference on Spectral Geometry held July 19-23 2010 at Dartmouth College Dartmouth New Hampshire Eigenvalue problems involving the Laplace operator on manifolds have proven to be a consistently fertile area of geometric analysis with deep connections to number theory physics and applied mathematics Key questions include the measures to which eigenfunctions of the Laplacian on a Riemannian manifold condense in the limit of large eigenvalue and the extent to which the eigenvalues and eigenfunctions of a manifold encode its geometry In this volume research and expository articles including those of the plenary speakers Peter Sarnak and Victor Guillemin address the flurry of recent progress in such areas as quantum unique ergodicity isospectrality semiclassical measures the geometry of nodal lines of eigenfunctions methods of numerical computation and spectra of quantum graphs This volume also contains mini courses on spectral theory for hyperbolic surfaces semiclassical analysis and orbifold spectral geometry that prepared the participants especially graduate students and young researchers for conference lectures **Topics in Spectral Geometry** Michael Levitin, Dan Mangoubi, Iosif Polterovich, 2023-11-30 It is remarkable that various distinct physical phenomena such as wave propagation heat diffusion electron movement in quantum mechanics oscillations of fluid in a container can be described using the same differential operator the Laplacian Spectral data i.e. eigenvalues and eigenfunctions of the Laplacian depend in a subtle way on the geometry of the underlying object e.g. a Euclidean domain or a Riemannian manifold on which the operator is defined This dependence or rather the interplay between the geometry and the spectrum is the main subject of spectral geometry Its roots can be traced to Ernst Chladni's experiments with vibrating plates Lord Rayleigh's theory of sound and Mark Kac's celebrated question Can one hear the shape of a drum In the second half of the twentieth century spectral geometry emerged as a separate branch of geometric analysis Nowadays it is a rapidly developing area of mathematics with close connections to other fields such as differential geometry mathematical physics partial differential equations number theory dynamical systems and numerical analysis This book can be used for a graduate or an advanced undergraduate course on spectral geometry starting from the basics but at the same time covering some of the exciting recent developments which can be explained without too many prerequisites *The Decomposition of Global Conformal*

Invariants Spyros Alexakis, 2012-05-06 This book addresses a basic question in differential geometry that was first considered by physicists Stanley Deser and Adam Schwimmer in 1993 in their study of conformal anomalies. The question concerns conformally invariant functionals on the space of Riemannian metrics over a given manifold. These functionals act on a metric by first constructing a Riemannian scalar out of it and then integrating this scalar over the manifold. Suppose this integral remains invariant under conformal rescalings of the underlying metric. What information can one then deduce about the Riemannian scalar? Deser and Schwimmer asserted that the Riemannian scalar must be a linear combination of three obvious candidates each of which clearly satisfies the required property: a local conformal invariant, a divergence of a Riemannian vector field, and the Chern Gauss Bonnet integrand. This book provides a proof of this conjecture. The result itself sheds light on the algebraic structure of conformal anomalies which appear in many settings in theoretical physics. It also clarifies the geometric significance of the renormalized volume of asymptotically hyperbolic Einstein manifolds. The methods introduced here make an interesting connection between algebraic properties of local invariants such as the classical Riemannian invariants and the more recently studied conformal invariants and the study of global invariants in this case conformally invariant integrals. Key tools used to establish this connection include the Fefferman-Graham ambient metric and the author's super divergence formula.

Cyclic Cohomology at 40: Achievements and Future Prospects A. Connes, C. Consani, B. I.

Dundas, M. Khalkhali, H. Moscovici, 2023-02-23 This volume contains the proceedings of the virtual conference on Cyclic Cohomology at 40: Achievements and Future Prospects held from September 27 to October 1, 2021, and hosted by the Fields Institute for Research in Mathematical Sciences, Toronto, ON, Canada. Cyclic cohomology, since its discovery forty years ago in noncommutative differential geometry, has become a fundamental mathematical tool with applications in domains as diverse as analysis, algebraic K-theory, algebraic geometry, arithmetic geometry, solid state physics, and quantum field theory. The reader will find survey articles providing a user-friendly introduction to applications of cyclic cohomology in such areas as higher categorical algebra, Hopf algebras, symmetries, de Rham-Witt complex, quantum physics, etc., in which cyclic homology plays the role of a unifying theme. The researcher will find frontier research articles in which the cyclic theory provides a computational tool of great relevance. In particular, in analysis, cyclic cohomology index formulas capture the higher invariants of manifolds where the group symmetries are extended to Hopf algebra actions, and where Lie algebra cohomology is greatly extended to the cyclic cohomology of Hopf algebras, which becomes the natural receptacle for characteristic classes. In algebraic topology, the cyclotomic structure obtained using the cyclic subgroups of the circle action on topological Hochschild homology gives rise to remarkably significant arithmetic structures intimately related to crystalline cohomology through the de Rham-Witt complex, Fontaine's theory, and the Fargues-Fontaine curve.

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 *Conformal Blocks, Generalized Theta Functions and the Verlinde Formula* Shrawan Kumar, 2021-11-25 This book gives a complete proof of the Verlinde formula and of its connection to generalized theta functions

Higher Structures in Geometry and Physics
Alberto S. Cattaneo, Anthony Giaquinto, Ping Xu, 2010-11-25 This book is centered around higher algebraic structures stemming from the work of Murray Gerstenhaber and Jim Stasheff that are now ubiquitous in various areas of mathematics such as algebra algebraic topology differential geometry algebraic geometry mathematical physics and in theoretical physics such as quantum field theory and string theory These higher algebraic structures provide a common language essential in the study of deformation quantization theory of algebroids and groupoids symplectic field theory and much more Each contribution in this volume expands on the ideas of Gerstenhaber and Stasheff The volume is intended for post graduate students mathematical and theoretical physicists and mathematicians interested in higher structures

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