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Manifolds with Group Actions and Elliptic Operators

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Manifolds With Group Actions And Elliptic Operators

Chongying Dong, Geoffrey Mason

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Manifolds with Group Actions and Elliptic Operators Vladimir I∏A∏kovlevich Lin, Yehuda Pinchover, 1994 This work studies equivariant linear second order elliptic operators italic capital P on a connected noncompact manifold italic capital X with a given action of a group italic capital G The action is assumed to be cocompact meaning that italic capitals GV italic capital X for some compact subset of italic capital V of italic capital X The aim is to study the structure of the convex cone of all positive solutions of italic capital P italic u 0 Moment Maps, Cobordisms, and Hamiltonian Group Actions Victor Guillemin, Viktor L. Ginzburg, Yael Karshon, 2002 During the last 20 years localization has been one of the dominant themes in the area of equivariant differential geometry Typical results are the Duistermaat Heckman theory the Berline Vergne Atiyah Bott localization theorem in equivariant de Rham theory and the quantization commutes with reduction theorem and its various corollaries To formulate the idea that these theorems are all consequences of a single result involving equivariant cobordisms the authors have developed a cobordism theory that allows the objects to be non compact manifolds A key ingredient in this non compact cobordism is an equivariant geometrical object which they call an abstract moment map This is a natural and important generalization of the notion of a moment map occurring in the theory of Hamiltonian dynamics The book contains a number of appendices that include introductions to proper group actions on manifolds equivariant cohomology Spin mathrm c structures and stable complex structures It is geared toward graduate students and research mathematicians interested in differential geometry It is also suitable for topologists Lie theorists combinatorists and theoretical physicists Prerequisite is some expertise in calculus on manifolds and basic graduate level differential geometry

Liouville-Riemann-Roch Theorems on Abelian Coverings Minh Kha, Peter Kuchment, 2021-02-12 This book is devoted to computing the index of elliptic PDEs on non compact Riemannian manifolds in the presence of local singularities and zeros as well as polynomial growth at infinity The classical Riemann Roch theorem and its generalizations to elliptic equations on bounded domains and compact manifolds due to Maz ya Plameneskii Nadirashvilli Gromov and Shubin account for the contribution to the index due to a divisor of zeros and singularities On the other hand the Liouville theorems of Avellaneda Lin Li Moser Struwe Kuchment and Pinchover provide the index of periodic elliptic equations on abelian coverings of compact manifolds with polynomial growth at infinity i e in the presence of a divisor at infinity A natural question is whether one can combine the Riemann Roch and Liouville type results This monograph shows that this can indeed be done however the answers are more intricate than one might initially expect Namely the interaction between the finite divisor and the point at infinity is non trivial The text is targeted towards researchers in PDEs geometric analysis and mathematical physics

Differential Equations on Manifolds and Mathematical Physics Vladimir M. Manuilov, Alexander S. Mishchenko, Vladimir E. Nazaikinskii, Bert-Wolfgang Schulze, Weiping Zhang, 2022-01-21 This is a volume originating from the Conference on Partial Differential Equations and Applications which was held in Moscow in November 2018 in memory of professor Boris

Sternin and attracted more than a hundred participants from eighteen countries. The conference was mainly dedicated to partial differential equations on manifolds and their applications in mathematical physics geometry topology and complex analysis The volume contains selected contributions by leading experts in these fields and presents the current state of the art in several areas of PDE It will be of interest to researchers and graduate students specializing in partial differential equations mathematical physics topology geometry and their applications. The readers will benefit from the interplay between **Proceedings Of The International Congress Of Mathematicians 2010 (Icm** these various areas of mathematics 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. Ii-iv: Invited Lectures Rajendra Bhatia, Arup Pal, G Rangarajan, V Srinivas, M Vanninathan, 2011-06-06 ICM 2010 proceedings comprises a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress Differential Equations, Mathematical Physics, and Applications: Selim Grigorievich Krein Centennial Peter Kuchment, Evgeny Semenov, 2019-07-22 This is the second of two volumes dedicated to the centennial of the distinguished mathematician Selim Grigorievich Krein The companion volume is Contemporary Mathematics Volume 733 Krein was a major contributor to functional analysis operator theory partial differential equations fluid dynamics and other areas and the author of several influential monographs in these areas He was a prolific teacher graduating 83 Ph D students Krein also created and ran for many years the annual Voronezh Winter Mathematical Schools which significantly influenced mathematical life in the former Soviet Union The articles contained in this volume are written by prominent mathematicians former students and colleagues of Selim Krein as well as lecturers and participants of Voronezh Winter Schools They are devoted to a variety of contemporary problems in ordinary and partial differential equations fluid dynamics and various applications

Proceedings of the Summer School Geometric and Topological Methods for Quantum Field Theory Alexander Cardona, Hernan Ocampo, Sylvie Paycha, 2003 This volume offers an introduction to recent developments in several active topics of research at the interface between geometry topology and quantum field theory These include Hopf algebras underlying renormalization schemes in quantum field theory noncommutative geometry with applications to index theory on one hand and the study of aperiodic solids on the other geometry and topology of low dimensional manifolds with applications to topological field theory Chern Simons supergravity and the anti de Sitter conformal field theory correspondence It comprises seven lectures organized around three main topics noncommutative geometry topological field theory followed by supergravity and string theory complemented by some short communications by young participants of the school Moonshine, the Monster, and Related Topics Chongying Dong, Geoffrey Mason, 1996 This is the proceedings of a Joint Summer Research Conference held at Mount Holyoke College in Jun 1994 As perhaps the first conference proceedings

devoted exclusively to the subject known as Moonshine this work contains something for many mathematicians and physicists Many of the results featured are not available elsewhere **Frontiers in Geometry and Topology** Paul M. N. Feehan, Lenhard L. Ng, Peter S. Ozsváth, 2024-07-19 This volume contains the proceedings of the summer school and research conference Frontiers in Geometry and Topology celebrating the sixtieth birthday of Tomasz Mrowka which was held from August 1 12 2022 at the Abdus Salam International Centre for Theoretical Physics ICTP The summer school featured ten lecturers and the research conference featured twenty three speakers covering a range of topics A common thread reflecting Mrowka's own work was the rich interplay among the fields of analysis geometry and topology Articles in this volume cover topics including knot theory the topology of three and four dimensional manifolds instanton monopole and Heegaard Floer homologies Khovanov homology and pseudoholomorphic curve theory 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 K hler 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 Variations on a Theme of Borel Shmuel Weinberger, 2022-12-08 In the middle of the last century after hearing a talk of Mostow on one of his rigidity theorems Borel conjectured in a letter to Serre a purely topological version of rigidity for aspherical manifolds i e manifolds with contractible universal covers The Borel conjecture is now one of the central problems of topology with many implications for manifolds that need not be aspherical Since then the theory of rigidity has vastly expanded in both precision and scope This book rethinks the implications of accepting his heuristic as a source of ideas Doing so leads to many variants of the original conjecture some true some false and some that remain conjectural The author explores this collection of ideas following them where they lead whether into rigidity theory in its differential geometric and representation theoretic forms or geometric group theory metric geometry global analysis algebraic geometry K theory or controlled topology Handbook of **Geometric Topology** R.B. Sher, R.J. Daverman, 2001-12-20 Geometric Topology is a foundational component of modern

mathematics involving the study of spacial properties and invariants of familiar objects such as manifolds and complexes This volume which is intended both as an introduction to the subject and as a wide ranging resouce for those already grounded in it consists of 21 expository surveys written by leading experts and covering active areas of current research They provide the reader with an up to date overview of this flourishing branch of mathematics Toric Topology Megumi Harada, 2008 Toric topology is the study of algebraic differential symplectic geometric combinatorial and homotopy theoretic aspects of a particular class of torus actions whose quotients are highly structured. The combinatorial properties of this quotient and the equivariant topology of the original manifold interact in a rich variety of ways thus illuminating subtle aspects of both the combinatorics and the equivariant topology Many of the motivations and guiding principles of the fieldare provided by though not limited to the theory of toric varieties in algebraic geometry as well as that of symplectic toric manifolds in symplectic geometry This volume is the proceedings of the International Conference on Toric Topology held in Osaka in May June 2006 It contains about 25 research and survey articles written by conference speakers covering many different aspects of and approaches to torus actions such as those mentioned above Some of the manuscripts are survey articles intended to give a broad overview of an aspect of the subject all manuscripts consciously aim to be accessible to a broad reading audience of students andresearchers interested in the interaction of the subjects involved We hope that this volume serves as an enticing invitation to this emerging field Pseudo-Differential Operators, Generalized Functions and Asymptotics Shahla Molahajloo, Stevan Pilipović, Joachim Toft, M. W. Wong, 2013-02-26 This volume consists of twenty peer reviewed papers from the special session on pseudodifferential operators and the special session on generalized functions and asymptotics at the Eighth Congress of ISAAC held at the Peoples Friendship University of Russia in Moscow on August 22 27 2011 The category of papers on pseudo differential operators contains such topics as elliptic operators assigned to diffeomorphisms of smooth manifolds analysis on singular manifolds with edges heat kernels and Green functions of sub Laplacians on the Heisenberg group and Lie groups with more complexities than but closely related to the Heisenberg group Lp boundedness of pseudo differential operators on the torus and pseudo differential operators related to time frequency analysis The second group of papers contains various classes of distributions and algebras of generalized functions with applications in linear and nonlinear differential equations initial value problems and boundary value problems stochastic and Malliavin type differential equations This second group of papers are related to the third collection of papers via the setting of Colombeau type spaces and algebras in which microlocal analysis is developed by means of techniques in asymptotics The volume contains the synergies of the three areas treated and is a useful complement to volumes 155 164 172 189 205 and 213 published in the same series in respectively 2004 2006 2007 2009 2010 and 2011 Prospects in Mathematical Physics José C. Mourão, 2007 This book includes papers presented at the Young Researchers Symposium of the 14th International Congress on Mathematical Physics held in July 2003 in Lisbon Portugal The goal of thes book is to illustrate various

promising areas of mathematical physics in a way accessible to researchers at the beginning of their career Two of the three laureates of the Henri Poincare Prizes Huzihiro Araki and Elliott Lieb also contributed to this volume The book provides a good survey of some active areas of research in modern mathematical physics Spin Geometry H. Blaine Lawson, Marie-Louise Michelsohn, 2016-06-02 This book offers a systematic and comprehensive presentation of the concepts of a spin manifold spinor fields Dirac operators and A genera which over the last two decades have come to play a significant role in many areas of modern mathematics Since the deeper applications of these ideas require various general forms of the Atiyah Singer Index Theorem the theorems and their proofs together with all prerequisite material are examined here in detail The exposition is richly embroidered with examples and applications to a wide spectrum of problems in differential geometry topology and mathematical physics The authors consistently use Clifford algebras and their representations in this exposition Clifford multiplication and Dirac operator identities are even used in place of the standard tensor calculus This unique approach unifies all the standard elliptic operators in geometry and brings fresh insights into curvature calculations The fundamental relationships of Clifford modules to such topics as the theory of Lie groups K theory KR theory and Bott Periodicity also receive careful consideration A special feature of this book is the development of the theory of Cl linear elliptic operators and the associated index theorem which connects certain subtle spin corbordism invariants to classical questions in geometry and has led to some of the most profound relations known between the curvature and topology of Mathematics Related to Physics Raoul Bott, 1994 Volume 4 Surveys in Noncommutative Geometry Nigel manifolds Higson, John Roe, 2006 In June 2000 the Clay Mathematics Institute organized an Instructional Symposium on Noncommutative Geometry in conjunction with the AMS IMS SIAM Joint Summer Research Conference These events were held at Mount Holyoke College in Massachusetts from June 18 to 29 2000 The Instructional Symposium consisted of several series of expository lectures which were intended to introduce key topics in noncommutative geometry to mathematicians unfamiliar with the subject Those expository lectures have been edited and are reproduced in this volume The lectures of Rosenberg and Weinberger discuss various applications of noncommutative geometry to problems in ordinary geometry and topology The lectures of Lagarias and Tretkoff discuss the Riemann hypothesis and the possible application of the methods of noncommutative geometry in number theory Higson gives an account of the residue index theorem of Connes and Moscovici Noncommutative geometry is to an unusual extent the creation of a single mathematician Alain Connes The present volume gives an extended introduction to several aspects of Connes work in this fascinating area *Pseudo-Differential Operators* on Manifolds with Singularities B.-W. Schulze, 1991-10-17 The analysis of differential equations in domains and on manifolds with singularities belongs to the main streams of recent developments in applied and pure mathematics. The applications and concrete models from engineering and physics are often classical but the modern structure calculus was only possible since the achievements of pseudo differential operators This led to deep connections with index theory topology and mathematical

physics The present book is devoted to elliptic partial differential equations in the framework of pseudo differential operators. The first chapter contains the Mellin pseudo differential calculus on R and the functional analysis of weighted Sobolev spaces with discrete and continuous asymptotics Chapter 2 is devoted to the analogous theory on manifolds with conical singularities Chapter 3 to manifolds with edges Employed are pseudo differential operators along edges with cone operator valued symbols

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