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Manifolds with Group Actions and Elliptic Operators

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Manifolds With Group Actions And Elliptic Operators

**Vladimir Ākovlevich Lin, Yehuda
Pinchover**



Manifolds With Group Actions And Elliptic Operators:

Manifolds with Group Actions and Elliptic Operators Vladimir I. A. I. kovlevich Lin, Yehuda Pinchover, 1994 This work studies equivariant linear second order elliptic operators P on a connected noncompact manifold X with a given action of a group G The action is assumed to be cocompact meaning that GV is compact for some compact subset V of X The aim is to study the structure of the convex cone of all positive solutions of P $u \geq 0$, **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 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 Plameneski Nadirashvili 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 **Encyclopaedia of Mathematics, Supplement III** Michiel Hazewinkel, 2007-11-23 This is the third supplementary volume to Kluwer's highly acclaimed twelve volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous

volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing twelve volumes and together these thirteen volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available

Geometric, Algebraic and Topological Methods for Quantum Field Theory Sylvie Payche, 2014 Based on lectures held at the 7th Villa de Leyva summer school this book presents an introduction to topics of current interest in the interface of geometry topology and physics It is aimed at graduate students in physics or mathematics with interests in geometric algebraic as well as topological methods and their applications to quantum field theory This volume contains the written notes corresponding to lectures given by experts in the field They cover current topics of research in a way that is suitable for graduate students of mathematics or physics interested in the recent developments and interactions between geometry topology and physics The book also contains contributions by younger participants displaying the ample range of topics treated in the school A key feature of the present volume is the provision of a pedagogical presentation of rather advanced topics in a way which is suitable for both mathematicians and physicists

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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 **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 these various areas of mathematics Proceedings Of The International Congress Of Mathematicians 2010 (Icm 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

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