

Metric Structures for Riemannian and Non-Riemannian Spaces

Misha Gromov

With Appendices by

H. Federer, F. Flinn, and S. Smolnik

Edited by J. J. O'Connor and E. F. Fenn

English translation by Sean Michael Rea

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Sobolev Spaces on Metric Measure Spaces Juha Heinonen, Pekka Koskela, Nageswari Shanmugalingam, Jeremy T. Tyson, 2015-02-05 This coherent treatment from first principles is an ideal introduction for graduate students and a useful reference for experts

On the Classification of Polish Metric Spaces Up to Isometry Su Gao, A. S. Kechris, 2003

Handbook of the Geometry of Banach Spaces William B. Johnson, Joram Lindenstrauss, 2001 The Handbook presents an overview of most aspects of modern Banach space theory and its applications The up to date surveys authored by leading research workers in the area are written to be accessible to a wide audience In addition to presenting the state of the art of Banach space theory the surveys discuss the relation of the subject with such areas as harmonic analysis complex analysis classical convexity probability theory operator theory combinatorics logic geometric measure theory and partial differential equations The Handbook begins with a chapter on basic concepts in Banach space theory which contains all the background needed for reading any other chapter in the Handbook Each of the twenty one articles in this volume after the basic concepts chapter is devoted to one specific direction of Banach space theory or its applications Each article contains a motivated introduction as well as an exposition of the main results methods and open problems in its specific direction Most have an extensive bibliography Many articles contain new proofs of known results as well as expositions of proofs which are hard to locate in the literature or are only outlined in the original research papers As well as being valuable to experienced researchers in Banach space theory the Handbook should

be an outstanding source for inspiration and information to graduate students and beginning researchers The Handbook will be useful for mathematicians who want to get an idea of the various developments in Banach space theory

Heat Kernels and Analysis on Manifolds, Graphs, and Metric Spaces Pascal Auscher,T. Coulhon,2003 This volume contains the expanded lecture notes of courses taught at the Emile Borel Centre of the Henri Poincare Institute Paris In the book leading experts introduce recent research in their fields The unifying theme is the study of heat kernels in various situations using related geometric and analytic tools Topics include analysis of complex coefficient elliptic operators diffusions on fractals and on infinite dimensional groups heat kernel and isoperimetry on Riemannian manifolds heat kernels and infinite dimensional analysis diffusions and Sobolev type spaces on metric spaces quasi regular mappings and p Laplace operators heat kernel and spherical inversion on $SL(2, \mathbb{C})$ random walks and spectral geometry on crystal lattices isoperimetric and isocapacitary inequalities and generating function techniques for random walks on graphs This volume is suitable for graduate students and research mathematicians interested in random processes and analysis on manifolds

Geometry and Topology of Aspherical Manifolds Luca F. Di Cerbo,Laurențiu G. Maxim,2025-03-31 This volume contains the proceedings of the AMS Special Session on Singer Hopf Conjecture in Geometry and Topology held from March 18 19 2023 at Georgia Institute of Technology Atlanta Georgia It presents a multidisciplinary point of view on the Singer conjecture the Hopf conjecture the study on normalized Betti numbers and several other intriguing questions on the fundamental group and cohomology of aspherical manifolds This volume highlights many interesting research directions in the study of aspherical manifolds and covers a large collection of problems and conjectures about L^2 invariants of aspherical manifolds It provides a snapshot of contemporary research in mathematics at the interface of geometry and topology as well as algebraic geometry The problems are presented from several distinct points of view and the articles in this volume suggest possible generalizations and bridge a gap with closely related problems in differential geometry complex algebraic geometry and geometric topology The volume can play a role in focusing the attention of the mathematical community on these fascinating problems which continue to resist the siege of geometers and topologists It is our hope that this volume will become a valuable resource for early career mathematicians interested in these deep and important questions

New Analytic and Geometric Methods in Inverse Problems Kenrick Bingham,Yaroslav V. Kurylev,E. Somersalo,2013-04-17 In inverse problems the aim is to obtain via a mathematical model information on quantities that are not directly observable but rather depend on other observable quantities Inverse problems are encountered in such diverse areas of application as medical imaging remote sensing material testing geosciences and financing It has become evident that new ideas coming from differential geometry and modern analysis are needed to tackle even some of the most classical inverse problems This book contains a collection of presentations written by leading specialists aiming to give the reader up to date tools for understanding the current developments in the field

European Congress of Mathematics Ari Laptev,2005 The European Congress of

Mathematics held every four years has established itself as a major international mathematical event Following those in Paris 1992 Budapest 1996 and Barcelona 2000 the Fourth European Congress of Mathematics took place in Stockholm Sweden June 27 to July 2 2004 with 913 participants from 65 countries Apart from seven plenary and thirty three invited lectures there were six Science Lectures covering the most relevant aspects of mathematics in science and technology Moreover twelve projects of the EU Research Training Networks in Mathematics and Information Sciences as well as Programmes from the European Science Foundation in Physical and Engineering Sciences were presented Ten EMS Prizes were awarded to young European mathematicians who have made a particular contribution to the progress of mathematics Five of the prizewinners were independently chosen by the 4ECM Scientific Committee as plenary or invited speakers The other five prizewinners gave their lectures in parallel sessions Most of these contributions are now collected in this volume providing a permanent record of so much that is best in mathematics today

In the Tradition of Thurston II Ken'ichi Ohshika, Athanase Papadopoulos, 2022-08-02 The purpose of this volume and of the other volumes in the same series is to provide a collection of surveys that allows the reader to learn the important aspects of William Thurston's heritage Thurston's ideas have altered the course of twentieth century mathematics and they continue to have a significant influence on succeeding generations of mathematicians The topics covered in the present volume include complex hyperbolic Kleinian groups Mbius structures hyperbolic ends cone 3 manifolds Thurston's norm surgeries in representation varieties triangulations spaces of polygonal decompositions and of singular flat structures on surfaces combination theorems in the theories of Kleinian groups hyperbolic groups and holomorphic dynamics the dynamics and iteration of rational maps automatic groups and the combinatorics of right angled Artin groups

Probability and Real Trees Steven N. Evans, 2007-09-26 Random trees and tree valued stochastic processes are of particular importance in many fields Using the framework of abstract tree like metric spaces and ideas from metric geometry Evans and his collaborators have recently pioneered an approach to studying the asymptotic behavior of such objects when the number of vertices goes to infinity This publication surveys the relevant mathematical background and present some selected applications of the theory

Foundations of Computational Mathematics, Santander 2005 Luis M. Pardo, 2006-06-29 Surveys and summaries of latest research in numerical analysis optimization computer algebra and scientific computing

Persistence Theory: From Quiver Representations to Data Analysis Steve Y. Oudot, 2017-05-17 Persistence theory emerged in the early 2000s as a new theory in the area of applied and computational topology This book provides a broad and modern view of the subject including its algebraic topological and algorithmic aspects It also elaborates on applications in data analysis The level of detail of the exposition has been set so as to keep a survey style while providing sufficient insights into the proofs so the reader can understand the mechanisms at work The book is organized into three parts The first part is dedicated to the foundations of persistence and emphasizes its connection to quiver representation theory The second part focuses on its connection to applications through a few selected

topics The third part provides perspectives for both the theory and its applications The book can be used as a text for a course on applied topology or data analysis *High-Dimensional Probability* Roman Vershynin, 2018-09-27 An integrated package of powerful probabilistic tools and key applications in modern mathematical data science *Foundations of Computational Mathematics, Budapest 2011* Society for the Foundation of Computational Mathematics, 2013 A diverse collection of articles by leading experts in computational mathematics written to appeal to established researchers and non experts **Mean Curvature Flow and Isoperimetric Inequalities** Manuel Ritoré, Carlo Sinestrari, 2010-01-01 Geometric flows have many applications in physics and geometry The mean curvature flow occurs in the description of the interface evolution in certain physical models This is related to the property that such a flow is the gradient flow of the area functional and therefore appears naturally in problems where a surface energy is minimized The mean curvature flow also has many geometric applications in analogy with the Ricci flow of metrics on abstract riemannian manifolds One can use this flow as a tool to obtain classification results for surfaces satisfying certain curvature conditions as well as to construct minimal surfaces Geometric flows obtained from solutions of geometric parabolic equations can be considered as an alternative tool to prove isoperimetric inequalities On the other hand isoperimetric inequalities can help in treating several aspects of convergence of these flows Isoperimetric inequalities have many applications in other fields of geometry like hyperbolic manifolds Handbook of Differential Geometry Franki J.E. Dillen, Leopold C.A. Verstraelen, 2005-11-29 In the series of volumes which together will constitute the Handbook of Differential Geometry we try to give a rather complete survey of the field of differential geometry The different chapters will both deal with the basic material of differential geometry and with research results old and recent All chapters are written by experts in the area and contain a large bibliography In this second volume a wide range of areas in the very broad field of differential geometry is discussed as there are Riemannian geometry Lorentzian geometry Finsler geometry symplectic geometry contact geometry complex geometry Lagrange geometry and the geometry of foliations Although this does not cover the whole of differential geometry the reader will be provided with an overview of some its most important areas Written by experts and covering recent research Extensive bibliography Dealing with a diverse range of areas Starting from the basics Symplectic Topology and Measure Preserving Dynamical Systems Albert Fathi, Yong-Geun Oh, Claude Viterbo, 2010-04-09 The papers in this volume were presented at the AMS IMS SIAM Joint Summer Research Conference on Symplectic Topology and Measure Preserving Dynamical Systems held in Snowbird Utah in July 2007 The aim of the conference was to bring together specialists of symplectic topology and of measure preserving dynamics to try to connect these two subjects One of the motivating conjectures at the interface of these two fields is the question of whether the group of area preserving homeomorphisms of the 2 disc is or is not simple For diffeomorphisms it was known that the kernel of the Calabi invariant is a normal proper subgroup so the group of area preserving diffeomorphisms is not simple Most articles are related to understanding these and related questions in the framework of

modern symplectic topology

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