

Volume Comparison and Its Applications in Riemann–Finsler Geometry

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We introduce a new geometric quantity, the *mean covariation* for Finsler metrics, and establish a volume comparison theorem. As an application, we obtain some precompactness and finiteness theorems for Finsler manifolds. © 1997 Academic Press

1. INTRODUCTION

Early work in conjunction with the global comparison geometry of Finsler manifolds was done by L. Auslander [A], who proved that if a complete Finsler n -manifold (M, F) satisfies $\text{Ric}_M \geq (n-1)$, then the diameter $\text{diam}_M \leq \pi$. In particular, $\pi_1(M)$ is finite. This is the Bonnet–Myers theorem if F is Riemannian. Further, he proved that if a complete Finsler manifold (M, F) has non-positive flag curvature, then the exponential map $\exp_x: T_x M \rightarrow M$ is a local C^1 -diffeomorphism. This is the Cartan–Hadamard theorem if F is Riemannian. We point out that Auslander used the Cartan connection and stated the above theorems under slightly stronger conditions on curvatures, because he did not realize that the curvature terms in the second variation formula can be simplified to the flag curvature. See [AZ2, BCh] for simplified formulas. We remark that the flag curvature is independent of a particular choice of connections, and hence is of particular interest in the metric geometry of Finsler manifolds. See [L, AZ1, D1–D3, GKR, Mo1, Mo2, K1, K2, BCh], etc., for other interesting work on global Finsler geometry.

In Riemann geometry, the Bishop–Gromov volume comparison theorem [BCr, GLP] plays a very important role in the global differential geometry of Riemann manifolds. One of its applications is the Gromov precompactness theorem for the class $\mathfrak{C}(n, \lambda, d)$ with respect to the Gromov–Hausdorff distance d_{GH} , where $\mathfrak{C}(n, \lambda, d)$ denotes the set of all Riemann manifolds (M, g) satisfying $\text{Ric}_M \geq (n-1)\lambda$ and $\text{diam}_M \leq d$. For $\varepsilon > 0$, $R \geq 1$, consider

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Riemannfinsler Geometry

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Riemannfinsler Geometry:

Riemann-finsler Geometry Shiing-shen Chern, Zhongmin Shen, 2005-05-10 Riemann Finsler geometry is a subject that concerns manifolds with Finsler metrics including Riemannian metrics It has applications in many fields of the natural sciences Curvature is the central concept in Riemann Finsler geometry This invaluable textbook presents detailed discussions on important curvatures such as the Cartan torsion the S curvature the Landsberg curvature and the Riemann curvature It also deals with Finsler metrics with special curvature or geodesic properties such as projectively flat Finsler metrics Berwald metrics Finsler metrics of scalar flag curvature or isotropic S curvature etc Instructive examples are given in abundance for further description of some important geometric concepts The text includes the most recent results although many of the problems discussed are classical

An Introduction to Riemann-Finsler Geometry David Dai-Wai Bao, S.-S. Chern, Z. Shen, 2000-03-17 This book focuses on the elementary but essential problems in Riemann Finsler Geometry which include a repertoire of rigidity and comparison theorems and an array of explicit examples illustrating many phenomena which admit only Finslerian interpretations This book offers the most modern treatment of the topic EMS Newsletter

An Introduction to Riemann-Finsler Geometry David Dai-Wai Bao, Shiing-Shen Chern, Zhongmin Shen, 2000

A Sampler of Riemann-Finsler Geometry David Dai-Wai Bao, 2004-11 These expository accounts treat issues related to volume geodesics curvature and mathematical biology with instructive examples

Finsler Geometry Xinyue Cheng, Zhongmin Shen, 2013-01-29 Finsler Geometry An Approach via Randers Spaces exclusively deals with a special class of Finsler metrics Randers metrics which are defined as the sum of a Riemannian metric and a 1 form Randers metrics derive from the research on General Relativity Theory and have been applied in many areas of the natural sciences They can also be naturally deduced as the solution of the Zermelo navigation problem The book provides readers not only with essential findings on Randers metrics but also the core ideas and methods which are useful in Finsler geometry It will be of significant interest to researchers and practitioners working in Finsler geometry even in differential geometry or related natural fields Xinyue Cheng is a Professor at the School of Mathematics and Statistics of Chongqing University of Technology China Zhongmin Shen is a Professor at the Department of Mathematical Sciences of Indiana University Purdue University USA

Lectures on Finsler Geometry Zhongmin Shen, 2001 In 1854 B Riemann introduced the notion of curvature for spaces with a family of inner products There was no significant progress in the general case until 1918 when P Finsler studied the variation problem in regular metric spaces Around 1926 L Berwald extended Riemann's notion of curvature to regular metric spaces and introduced an important non Riemannian curvature using his connection for regular metrics Since then Finsler geometry has developed steadily In his Paris address in 1900 D Hilbert formulated 23 problems the 4th and 23rd problems being in Finsler's category Finsler geometry has broader applications in many areas of science and will continue to develop through the efforts of many geometers around the world Usually the methods employed in Finsler geometry involve very

complicated tensor computations Sometimes this discourages beginners Viewing Finsler spaces as regular metric spaces the author discusses the problems from the modern metric geometry point of view The book begins with the basics on Finsler spaces including the notions of geodesics and curvatures then deals with basic comparison theorems on metrics and measures and their applications to the Levy concentration theory of regular metric measure spaces and Gromov's Hausdorff convergence theory

Introduction To Modern Finsler Geometry Yi-bing Shen,Zhongmin Shen,2016-02-25 This comprehensive book is an introduction to the basics of Finsler geometry with recent developments in its area It includes local geometry as well as global geometry of Finsler manifolds In Part I the authors discuss differential manifolds Finsler metrics the Chern connection Riemannian and non Riemannian quantities Part II is written for readers who would like to further their studies in Finsler geometry It covers projective transformations comparison theorems fundamental group minimal immersions harmonic maps Einstein metrics conformal transformations amongst other related topics The authors made great efforts to ensure that the contents are accessible to senior undergraduate students graduate students mathematicians and scientists

Finsler Geometry and Applications Aurel Bejancu,1990

Study on Some Transformations of Riemann-Finsler Spaces Manoj Kumar,2016 Finsler geometry generalizes Riemannian geometry in the same sense that Banach spaces generalize Hilbert spaces This book presents some transformations in Riemann Finsler geometry which have recently undergone significant development but have not had a pedagogical treatment elsewhere Each article will open the door to an active area of research and is suitable for a special topics course in graduate level differential geometry

The Geometry of Finsler Spaces: an Approach Via Special Finsler Metric Sruthy Baby,2019-10-20 Finsler geometry is Riemannian geometry without the restriction that the line element be quadratic It has applications in many field of natural science especially in mechanics gravitational theory electromagnetism information geometry etc This book presents some work done by the author on the theory of projective change between two Finsler spaces Conformal change of Douglas space with special Finsler metric Nonholonomic Frames for Finsler space with special metric Reversible geodesics of Finslerian space Complex Finsler space Rander conformal change of Finsler spaces and the curvature properties of Finsler space The chapters included in this book contains fundamental topic of modern Riemann Finsler geometry including the notion of curvature projectively flat metrics dually flat metrics which are interesting not only for specialists in Finsler Geometry but for researchers in Riemann Geometry or other field of differential geometry The book provides readers with essential findings on a special type of Finsler metric which can be considered as a generalization of Randers metric and square metric The text includes the most recent topics in Finsler Geometry like Reversible geodesics of Finsler space R Complex Finsler space and transformation on Finsler metric This book shall be of benefit to students in the field of Differential geometry and will be of interest to physicists and mathematical biologists

Visualization and Processing of Tensors and Higher Order Descriptors for Multi-Valued Data Carl-Fredrik Westin,Anna Vilanova,Bernhard Burgeth,2014-07-17 Arising from the fourth Dagstuhl

conference entitled Visualization and Processing of Tensors and Higher Order Descriptors for Multi Valued Data 2011 this book offers a broad and vivid view of current work in this emerging field Topics covered range from applications of the analysis of tensor fields to research on their mathematical and analytical properties Part I Tensor Data Visualization surveys techniques for visualization of tensors and tensor fields in engineering discusses the current state of the art and challenges and examines tensor invariants and glyph design including an overview of common glyphs The second Part Representation and Processing of Higher order Descriptors describes a matrix representation of local phase outlines mathematical morphological operations techniques extended for use in vector images and generalizes erosion to the space of diffusion weighted MRI Part III Higher Order Tensors and Riemannian Finsler Geometry offers powerful mathematical language to model and analyze large and complex diffusion data such as High Angular Resolution Diffusion Imaging HARDI and Diffusion Kurtosis Imaging DKI A Part entitled Tensor Signal Processing presents new methods for processing tensor valued data including a novel perspective on performing voxel wise morphometry of diffusion tensor data using kernel based approach explores the free water diffusion model and reviews proposed approaches for computing fabric tensors emphasizing trabecular bone research The last Part Applications of Tensor Processing discusses metric and curvature tensors two of the most studied tensors in geometry processing Also covered is a technique for diagnostic prediction of first episode schizophrenia patients based on brain diffusion MRI data The last chapter presents an interactive system integrating the visual analysis of diffusion MRI tractography with data from electroencephalography

Finslerian Geometries P.L.

Antonelli, 2012-12-06 The International Conference on Finsler and Lagrange Geometry and its Applications A Meeting of Minds took place August 13 20 1998 at the University of Alberta in Edmonton Canada The main objective of this meeting was to help acquaint North American geometers with the extensive modern literature on Finsler geometry and Lagrange geometry of the Japanese and European schools each with its own venerable history on the one hand and to communicate recent advances in stochastic theory and Hodge theory for Finsler manifolds by the younger North American school on the other The intent was to bring together practitioners of these schools of thought in a Canadian venue where there would be ample opportunity to exchange information and have cordial personal interactions The present set of refereed papers begins with the Pedagogical Section I where introductory and brief survey articles are presented one from the Japanese School and two from the European School Romania and Hungary These have been prepared for non experts with the intent of explaining basic points of view The Section III is the main body of work It is arranged in alphabetical order by author Section II gives a brief account of each of these contributions with a short reference list at the end More extensive references are given in the individual articles

Finsler and Lagrange Geometries

Mihai Anastasiei, P.L. Antonelli, 2013-06-29 In the last decade several international conferences on Finsler Lagrange and Hamilton geometries were organized in Bra ov Romania 1994 Seattle USA 1995 Edmonton Canada 1998 besides the Seminars that periodically are held in Japan and Romania All these

meetings produced important progress in the field and brought forth the appearance of some reference volumes Along this line a new International Conference on Finsler and Lagrange Geometry took place August 26-31 2001 at the Al I Cuza University in Ia i Romania This Conference was organized in the framework of a Memorandum of Understanding 1994-2004 between the Al I Cuza University in Ia i Romania and the University of Alberta in Edmonton Canada It was especially dedicated to Prof Dr Peter Louis Antonelli the liaison officer in the Memorandum an untired promoter of Finsler Lagrange and Hamilton geometries very close to the Romanian School of Geometry led by Prof Dr Radu Miron The dedication wished to mark also the 60th birthday of Prof Dr Peter Louis Antonelli With this occasion a Diploma was given to Professor Dr Peter Louis Antonelli conferring the title of Honorary Professor granted to him by the Senate of the oldest Romanian University 140 years the Al I Cuza University Ia i Romania There were almost fifty participants from Egypt Greece Hungary Japan Romania USA There were scheduled 45 minutes lectures as well as short communications Finsler Geometry, Sapporo 2005 Makoto Matsumoto, 2007 The volume contains surveys and original articles based on the talks given at the 40th Finsler Symposium on Finsler Geometry held in the period September 9-10 2005 at Hokkaido Tokai University Sapporo Japan The Symposium's purpose was not only a meeting of the Finsler geometers from Japan and abroad but also to commemorate the memory of the late Professor Makoto Matsumoto The papers included in this volume contain fundamental topics of modern Riemann Finsler geometry interesting not only for specialists in Finsler geometry but for researchers in Riemannian geometry or other fields of differential geometry and its applications also Published by Mathematical Society of Japan and distributed by World Scientific Publishing Co for all markets except North America **An introduction to Riemann-Finsler geometry** D. Bao, S.-S. Chern, Z. Shen, 2000 **Cpt And Lorentz Symmetry - Proceedings Of The Sixth Meeting** V Alan Kostelecky, 2014-01-15 This book contains the Proceedings of the Sixth Meeting on CPT and Lorentz Symmetry held at Indiana University in Bloomington on June 17-21 2013 The Meeting focused on tests of these fundamental symmetries and on related theoretical issues including scenarios for possible violations Topics covered at the meeting include searches for CPT and Lorentz violations involving accelerator and collider experiments atomic nuclear and particle decays birefringence dispersion and anisotropy in cosmological sources clock comparison measurements electromagnetic resonant cavities and lasers tests of the equivalence principle gauge and Higgs particles high energy astrophysical observations laboratory tests of gravity matter interferometry neutrino oscillations and propagation oscillations and decays of neutral mesons particle antiparticle comparisons post newtonian gravity in the solar system and beyond second and third generation particles space based missions spectroscopy of hydrogen and antihydrogen spin polarized matter and time of flight measurements Theoretical discussions include physical effects at the level of the Standard Model General Relativity and beyond the possible origins and mechanisms for Lorentz and CPT violations classical and quantum issues in field theory particle physics gravity and string theory and mathematical foundations including Finsler geometry *Gromov, Cauchy and*

Causal Boundaries for Riemannian, Finslerian and Lorentzian Manifolds Jose Luis Flores, J. Herrera, M. Sánchez, 2013-10-23

Recently the old notion of causal boundary for a spacetime V has been redefined consistently. The computation of this boundary V on any standard conformally stationary spacetime $V \subset R \times M$ suggests a natural compactification MB associated to any Riemannian metric on M or more generally to any Finslerian one. The corresponding boundary BM is constructed in terms of Busemann type functions. Roughly BM represents the set of all the directions in M including both asymptotic and finite or incomplete directions. This Busemann boundary BM is related to two classical boundaries: the Cauchy boundary CM and the Gromov boundary GM . The authors' aims are: 1) to study the subtleties of both the Cauchy boundary for any generalized possibly non symmetric distance and the Gromov compactification for any possibly incomplete Finsler manifold; 2) to introduce the new Busemann compactification MB relating it with the previous two completions; and 3) to give a full description of the causal boundary V of any standard conformally stationary spacetime. J. L. Flores and J. Herrera, University of Malaga, Spain and M. Sánchez, University of Granada, Spain. Publisher's note: **Mathematics: Frontiers and Perspectives**

Vladimir Igorevich Arnold, 2000. A celebration of the state of mathematics at the end of the millennium. Produced under the auspices of the International Mathematical Union (IMU), the book was born as part of the activities of World Mathematical Year 2000. It consists of 28 articles written by influential mathematicians. *Quantum Field Theory III: Gauge Theory* Eberhard Zeidler, 2011-08-17. In this third volume of his modern introduction to quantum field theory, Eberhard Zeidler examines the mathematical and physical aspects of gauge theory as a principle tool for describing the four fundamental forces which act in the universe: gravitation, electromagnetic, weak interaction, and strong interaction. Volume III concentrates on the classical aspects of gauge theory, describing the four fundamental forces by the curvature of appropriate fiber bundles. This must be supplemented by the crucial but elusive quantization procedure. The book is arranged in four sections devoted to realizing the universal principle: force equals curvature. Part I: The Euclidean Manifold as a Paradigm; Part II: Ariadne's Thread in Gauge Theory; Part III: Einstein's Theory of Special Relativity; Part IV: Ariadne's Thread in Cohomology. For students of mathematics, the book is designed to demonstrate that detailed knowledge of the physical background helps to reveal interesting interrelationships among diverse mathematical topics. Physics students will be exposed to a fairly advanced mathematics beyond the level covered in the typical physics curriculum. Quantum Field Theory builds a bridge between mathematicians and physicists based on challenging questions about the fundamental forces in the universe: macrocosmos and in the world of elementary particles: microcosmos. **Introduction to Riemannian Manifolds** John M. Lee, 2019-01-02

This textbook is designed for a one or two semester graduate course on Riemannian geometry for students who are familiar with topological and differentiable manifolds. The second edition has been adapted, expanded, and aptly retitled from Lee's earlier book *Riemannian Manifolds: An Introduction to Curvature*. Numerous exercises and problem sets provide the student with opportunities to practice and develop skills; appendices contain a brief review of essential background material. While

demonstrating the uses of most of the main technical tools needed for a careful study of Riemannian manifolds this text focuses on ensuring that the student develops an intimate acquaintance with the geometric meaning of curvature The reasonably broad coverage begins with a treatment of indispensable tools for working with Riemannian metrics such as connections and geodesics Several topics have been added including an expanded treatment of pseudo Riemannian metrics a more detailed treatment of homogeneous spaces and invariant metrics a completely revamped treatment of comparison theory based on Riccati equations and a handful of new local to global theorems to name just a few highlights Reviews of the first edition Arguments and proofs are written down precisely and clearly The expertise of the author is reflected in many valuable comments and remarks on the recent developments of the subjects Serious readers would have the challenges of solving the exercises and problems The book is probably one of the most easily accessible introductions to Riemannian geometry M C Leung MathReview The book s aim is to develop tools and intuition for studying the central unifying theme in Riemannian geometry which is the notion of curvature and its relation with topology The main ideas of the subject motivated as in the original papers are introduced here in an intuitive and accessible way The book is an excellent introduction designed for a one semester graduate course containing exercises and problems which encourage students to practice working with the new notions and develop skills for later use By citing suitable references for detailed study the reader is stimulated to inquire into further research C L Bejan zBMATH

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