

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

Shiing-Shen Chern, Zhongmin Shen



Riemannfinsler Geometry:

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

Riemann-Finsler Geometry Shiing-Shen Chern, Zhongmin Shen, 2005 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 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 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 Graduate students and researchers in differential geometry

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

An Introduction to Riemann-Finsler Geometry D. Bao, S.-S. Chern, Z. Shen, 2012-12-06 In Riemannian geometry measurements are made with both yardsticks and protractors These tools are represented by a family of inner products In Riemann Finsler geometry or Finsler geometry for short one is in principle equipped with only a family of Minkowski norms So ardsticks are assigned but protractors are not With such a limited tool kit it is natural to wonder just how much geometry one can uncover and describe It now appears that there is a reasonable answer Finsler geometry encompasses a solid repertoire of rigidity and comparison theorems most of them founded upon a fruitful analogue of the sectional curvature There is also a bewildering array of explicit examples illustrating many phenomena which admit only Finslerian interpretations This book focuses on the elementary but essential items among these results Much thought has gone into making the account a teachable one

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

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 $V \times \mathbb{R}$ 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 Finsler Geometry and Applications Aurel Bejancu, 1990 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

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