

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 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 *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* David Dai-Wai Bao,Shiing-Shen Chern,Zhongmin Shen,2000 *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,2005-05-10 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 *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

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 fields 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 contain fundamental topics 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 fields 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 **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

Finsler Geometry and Applications Aurel Bejancu, 1990

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