

Volume Comparison and Its Applications in Riemann–Finsler Geometry

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Received May 9, 1996; accepted December 30, 1996

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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Table of Contents Riemannfinsler Geometry

1. Understanding the eBook Riemannfinsler Geometry
 - The Rise of Digital Reading Riemannfinsler Geometry
 - Advantages of eBooks Over Traditional Books
2. Identifying Riemannfinsler Geometry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Riemannfinsler Geometry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Riemannfinsler Geometry
 - Personalized Recommendations
 - Riemannfinsler Geometry User Reviews and Ratings
 - Riemannfinsler Geometry and Bestseller Lists
5. Accessing Riemannfinsler Geometry Free and Paid eBooks
 - Riemannfinsler Geometry Public Domain eBooks
 - Riemannfinsler Geometry eBook Subscription Services
 - Riemannfinsler Geometry Budget-Friendly Options
6. Navigating Riemannfinsler Geometry eBook Formats

- ePub, PDF, MOBI, and More
- Riemannfinsler Geometry Compatibility with Devices
- Riemannfinsler Geometry Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Riemannfinsler Geometry
 - Highlighting and Note-Taking Riemannfinsler Geometry
 - Interactive Elements Riemannfinsler Geometry
- 8. Staying Engaged with Riemannfinsler Geometry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Riemannfinsler Geometry
- 9. Balancing eBooks and Physical Books Riemannfinsler Geometry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Riemannfinsler Geometry
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Riemannfinsler Geometry
 - Setting Reading Goals Riemannfinsler Geometry
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Riemannfinsler Geometry
 - Fact-Checking eBook Content of Riemannfinsler Geometry
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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