

## 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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