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Comparison Theorems In Riemannian Geometry

The book " Comparison Theorems in Riemannian Geometry", by Cheeger and Ebin, is for researchers at the postgraduate, postdoctoral and professional levels. In view of the 1975 vintage, it has great value as a relatively easy introduction to the research project "geometry implies topology" for Riemannian spaces, but also to better understand the current state of the art

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in the context of its historical development.

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The solutions are given by $a(t) = p k \cot(p k(t - t_0))$: This corresponds to the fact that there is (up to congruence) only one equidistant family of umbilical hypersurfaces in the sphere, namely concentric Riemannian spheres (latitude circles). Fig. 3.

Comparison Theorems in Riemannian Geometry

Comparison Theorems in Riemannian Geometry. The central theme of this book is the interaction between the curvature of a complete Riemannian manifold and its topology and global geometry. The first...

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These include the pinching (or sphere) theorem, Berger's theorem for symmetric spaces, the differentiable sphere theorem, the structure of complete manifolds of non-negative curvature, and finally, results about the structure of complete manifolds of non-positive curvature.

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10. Ricci curvature and Myers' and Bonnet's Theorems 23 11. Rauch Comparison Theorem 24 12. The Cartan-Hadamard Theorem 30 13. The Cartan-Ambrose-Hicks Theorem 31 14. Spaces of constant curvature 34 Chapter 2. Toponogov's Theorem 35 Chapter 3. Homogeneous Spaces 47 Chapter 4. Morse Theory 69 Chapter 5. Closed Geodesics and the Cut Locus 81 Chapter 6.

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In Riemannian geometry, the comparison results in terms of sectional curvature of Rauch, Toponogov, Morse{Schoenberg and others (cf. [7]) are basic tools used to prove results such as the sphere theorem, the Bonnet{Myers theorem, and the maximal diameter theorem of Toponogov. More recently, comparison theorems in terms of the Ricci cur-

COMPARISON AND RIGIDITY THEOREMS IN SEMI-RIEMANNIAN GEOMETRY

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Riemannian geometry In Riemannian geometry , it is a traditional name for a number of theorems that compare various metrics and provide various estimates in Riemannian geometry. Rauch comparison theorem relates the sectional curvature of a Riemannian manifold to the rate at which its geodesics spread apart.

Comparison theorem - Wikipedia

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Myers theorem. If a compact Riemannian manifold has positive Ricci curvature then its fundamental group is finite. Bochner's formula. If a compact Riemannian n -manifold has non-negative Ricci curvature, then its first Betti number is at most n , with equality if and only if the Riemannian manifold is a flat torus. Splitting theorem.

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These include the pinching (or sphere) theorem, Berger's theorem for symmetric spaces, the differentiable sphere theorem, the structure of complete manifolds of non-negative

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The Toponogov theorem on the comparison of angles has many applications: In a Riemannian manifold M^n , let all $K_\sigma \geq c$, let $\alpha_1, \alpha_2, \alpha_3$ be the angles of a triangle made of shortest curves, and let $\alpha_1', \alpha_2', \alpha_3'$ be the corresponding angles of a triangle with sides of

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the same length in the c -plane; then $\alpha_i \geq \alpha_i^{\prime}$.

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Fabrice Baudoin, Erlend Grong, Gianmarco Molino, Luca Rizzi
(Submitted on 8 Sep 2019) On H-type sub-Riemannian manifolds we establish sub-Hessian and sub-Laplacian comparison theorems which are uniform for a family of approximating Riemannian metrics converging to the sub-Riemannian one.

[1909.03532] Comparison theorems on H-type sub-Riemannian ...

Among the most celebrated results in Riemannian geometry, comparison theorems play a prominent role. These theorems allow to estimate properties of a manifold under investigation

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with the same property on the model spaces which, in the classical setting, are the simply