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Maximum Principles On Riemannian Manifolds

Maximum Principles on Riemannian Manifolds and Applications
Share this page Stefano Pigola; Marco Rigoli; Alberto G. Setti.
The aim of the paper is to introduce the reader to various forms of the maximum principle, starting from its classical formulation up to generalizations of the Omori-Yau maximum principle at infinity recently obtained by ...

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Applications

"Volume 174, number 822 (second of 4 numbers)." Incluye bibliografía e índice

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the core of the maximum principle indeed relies on $u(x_0) = u^*$ and (1.1) i), ii). Substituting $[a, b] \subset \mathbb{R}$ with a compact Riemannian manifold (M, \langle, \rangle) without boundary, we have that ...

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Maximum principles at infinity on Riemannian manifolds and the Ahlfors-Khas'minskii duality Joint works with M. Rigoli, B. Bianchini, A.G. Setti, P. Pucci, M. Magliaro, D. Valtorta and L.F. Pessoa Luciano Mari Scuola Normale Superiore Banff, April 2017 (UFC) April 3, 2017 1 / 19

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Maximum principles on Riemannian manifolds and ...

Maximum and comparison principles at infinity on Riemannian manifolds Stefano Pigola Dipartimento di Matematica Università degli Studi di Milano Via C. Saldini 50 I-20133 Milano, ITALY pigola@mat.unimi.it Advisor: Prof. Marco Rigoli, Dipartimento di Scienze CC-FF-MM Facoltà di Scienze Università dell'Insubria - Como via Valleggio 11 I ...

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Maximum principles on Riemann manifolds | Stefano Pigola ...

Although it's not hard to extend the maximum principle for all time by just taking $M \times [0, T]$ and letting $T \rightarrow \infty$...compactness of the spatial part is the crucial thing. Though in Chow's book there are maximum principles for complete noncompact manifolds. - Ryan Unger Oct 25 '18 at 3:45

Weak parabolic maximum principle on Riemannian manifolds

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- 7) (Yau's Maximum Principle I) On a complete Riemannian manifold M with non-negative Ricci curvature: $\Delta f = 0$ and $f > 0$.
- 8) (Yau's Maximum Principle II) On a complete Riemannian manifold M : $\Delta f \geq 0$, $f \geq 0$ and $f \in L^p$, where $1 < p < \infty$.
- 9) (Li and Karp's Maximum Principle) On a complete Riemannian manifold M with Ricci curvature $\text{Ric } M(x) \geq -c\{1 + \rho^2(x)\}$

Generalized maximum principles and their applications to

...

The strong maximum principle says that, unless u is a constant function, the maximum cannot also be achieved anywhere on M itself. Such statements give a striking qualitative picture of solutions of the given differential equation. Such a qualitative picture can be extended to many kinds of differential equations.

Maximum principle - Wikipedia

principle for the Laplace operator on a closed Riemannian

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manifold. As a key feature of this maximum principle, the constant in the maximum estimate depends on the Riemannian manifold only in terms of the dimension and the volume-normalized Neumann isoperimetric constant. This allows us to apply it to manifolds with Ricci

A Neumann Type Maximum Principle for the Laplace Operator ...

Elliptic inequalities on manifolds, Maximum Principles. 1
Introduction In this paper we are concerned with weak solutions of differential inequalities on a complete Riemannian manifold M of dimension n . More precisely, our aim is to prove maximum principles for inequalities governed by operators which may be inhomogeneous.

Maximum Principles for Inhomogeneous Elliptic Inequalities ...

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Omori first formulated such a maximum principle on a complete Riemannian manifold with sectional curvature bounded from below (cf. [Om]). Since then, the maximum principle has been generalized by several authors and applied to the study of value distribution of maps between manifolds as first observed by Omori, [Om].

A VOLUME ESTIMATE FOR STRONG SUBHARMONICITY AND MAXIMUM ...

The geometric versions are a strong maximum principle, Theorem 3.6, for spacelike hypersurfaces (Definition 3.1) in Lorentzian manifolds and Theorem 3.10 which is a maximum principle for hypersurfaces in Riemannian manifolds that can be locally represented as graphs.

A STRONG MAXIMUM PRINCIPLE FOR WEAK RIEMANNIAN GEOMETRY

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A Riemannian metric (tensor) makes it possible to define several geometric notions on a Riemannian manifold, such as angle at an intersection, length of a curve, area of a surface and higher-dimensional analogues (volume, etc.), extrinsic curvature of submanifolds, and intrinsic curvature of the manifold itself.

Riemannian manifold - Wikipedia

In this paper, we establish a generalized maximum principle for pseudoHermitian manifolds. As corollaries, Omori-Yau type maximum principles for pseudo-Hermitian manifolds are deduced. Moreover, we prove that the sub-stochastic completeness of a pseudo-Hermitian manifold is equivalent to the validity of a weak form of the generalized maximum principle.

[PDF] Generalized maximum principles and sub-stochastic ...

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Abstract In this paper, we present a version of the Omori-Yau maximum principle, a Liouville-type result, and a Phragmen-Lindelöff-type theorem for a class of singular elliptic operators on a Riemannian manifold, which include the p -Laplacian and the mean curvature operator. Some applications of the results obtained are discussed.

Maximum Principles and Singular Elliptic Inequalities ...

Applying the maximal principle to $G^{-k}(x)$ on the weighted Riemannian manifold $(M, g, \nabla u)$ at x_k , we get $\nabla \nabla u G^{-k}(x_k) = 0$ and $\Delta \nabla u G^{-k}(x_k) \leq 0$. By the same argument as Case 1 and let $\delta \rightarrow 0$, we obtain (1.3) and (1.4).

On the maximum principle on complete Finsler manifolds

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Polynomial growth harmonic functions on complete Riemannian manifolds Lee, Yong Hah, *Revista Matemática Iberoamericana*,

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2004; On harmonic field in Riemannian manifold Mogi, Isamu, Kodai Mathematical Seminar Reports, 1950; The harmonic field of a Riemannian manifold Halperin, Steve, Journal of Differential Geometry, 2014; Uniqueness of L^1 harmonic functions on rotationally symmetric Riemannian ...

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