

<<几何与分析中的最新进展>>

图书基本信息

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内容概要

《几何与分析中的最新进展》汇集了微分几何、几何分析、微分方程等方面一些综述性文章或最新进展研究成果，特别有益于几何、分析专业的硕士生、博士生以及刚刚开始从事这些领域研究的数学工作者，对在相关领域工作的其他数学工作者也很有参考价值。

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章节摘录

版权页：插图：5 A Rough Classification of Metrics of Positive Scalar Curvature We hope to use 2-scalar curvature to give a further classification of the manifolds admitting metric with positive scalar curvature. For the further discussion let us first recall the following definition. (1+) Closed connected manifolds with a Riemannian metric whose scalar curvature is nonnegative and not identically 0. (10) Closed connected manifolds with a Riemannian metric with nonnegative scalar curvature, but not in class (1+). (1_) Closed connected manifolds not in classes (1+) or (10). Theorem A. (Trichotomy Theorem [49, 50]) Let M^n be a closed connected manifold of dimension $n \geq 3$. (1) If M belongs to class (1+), then every smooth function is the scalar curvature function for some Riemannian metric on M . (2) If M belongs to class (10), then a smooth function f is the scalar curvature function of some Riemannian metric on M if and only if $f(x)$

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