Cornell University Library

We gratefully acknowledge support from the Simons Foundation and member institutions

arXiv.org > math > arXiv:1107.5350

Search or Article-id (Help | Advanced search) All papers Go!

Mathematics > Analysis of PDEs

Yamabe flow on manifolds with edges

Eric Bahuaud, Boris Vertman

(Submitted on 26 Jul 2011)

This article studies local existence and uniqueness of Yamabe flow within a class of compact Riemannian manifolds with incomplete edge singularities. Our main analytic step is to establish parabolic Schauder-type estimates for the heat operator on a class of edge singular spaces. We apply these estimates to obtain local existence for certain quasilinear equations, including the Yamabe flow.

Subjects:	**Analysis of PDEs (math.AP)**; Differential Geometry (math.DG)
MSC classes:	53C44, 58J35, 35K08
Cite as:	**arXiv:1107.5350 [math.AP]**
	(or **arXiv:1107.5350v1 [math.AP]** for this version)

Submission history

From: Eric Bahuaud [view email]
[v1] Tue, 26 Jul 2011 22:35:21 GMT (33kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

Download:

- PDF
- PostScript
- Other formats

Current browse context:
math.AP
< prev | next >
new | recent | 1107

Change to browse by:
math
math.DG

References & Citations
- NASA ADS

Bookmark(what is this?)