



Joachim Weber

Transversality for the heat flow

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HU Berlin
Institut für Mathematik
Rudower Chaussee 25, Raum I.410
12489 Berlin

Given a closed Riemannian manifold M , we construct a suitable class of perturbations to achieve Morse-Smale transversality for the heat equation.

The heat equation is a parabolic PDE for maps from the cylinder to M which arises as the negative L^2 gradient equation of the Riemannian energy functional and the perturbations take the form of smooth functions on the free loop space of M satisfying certain axioms.

Kontakt:

Humboldt-Universität zu Berlin . Institut für Mathematik
SFB 647 . Unter den Linden 6 . 10099 Berlin
Tel. +49 30 2093 1804 . Fax. +49 30 2093 2727
sfb647@math.hu-berlin.de

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