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Transversality for the heat flow

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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.

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