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Evolution of eigenvalues of a geometric operator under Ricci flow on a Riemannian manifold.
(English) [Zbl 07473007]

Summary: The behavior of the eigenvalues of a geometric operator closely related to the Laplacian under Ricci flow is investigated. These depend on a coupling parameter in the operator as well as an evolution parameter which gives a flow on a compact manifold of finite dimension. The main objective is to study the monotonicity properties of the eigenvalues.

MSC:
53Cxx Global differential geometry
58Jxx Partial differential equations on manifolds; differential operators
35Kxx Parabolic equations and parabolic systems

Keywords:
manifold; operators; Laplacian; eigenvalues; Ricci flow; Riemannian

Full Text: DOI

References:

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