

Nadirashvili, Nikolai S.

Metric properties of eigenfunctions of the Laplace operator on manifolds. (English)

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Ann. Inst. Fourier 41, No. 1, 259-265 (1991).

On a two-dimensional compact real analytic Riemannian manifold we estimate the volume of the set on which the eigenfunction of the Laplace- Beltrami operator is positive.

On an n -dimensional compact smooth Riemannian manifold, we estimate the relation between supremum and infimum of an eigenfunction of the Laplace operator.

Reviewer: [N.S.Nadirashvili \(Moskva\)](#)

MSC:

[58J50](#) Spectral problems; spectral geometry; scattering theory on manifolds

Cited in **5** Documents

Keywords:

[nodal set](#); [eigenfunction](#); [Laplace-Beltrami operator](#)

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