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Maximization of the second conformal eigenvalue of spheres

Romain Petrides

(Submitted on 1 Jun 2012)

We establish in this paper an upper bound on the second eigenvalue of n-dimensional spheres in the conformal class of the round sphere. This upper bound holds in all dimensions and is asymptotically sharp as the dimension increases.

Subjects: **Spectral Theory (math.SP)**; Differential Geometry (math.DG)

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