

Seminario Matematico di Brescia

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Geometric excess of the fundamental gap

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Abstract:

On convex sets of R^N the Payne-Weinberger and Andrews-Clutterbuck inequalities provide sharp lower bounds of the fundamental gap of the Laplace operator with Neumann and Dirichlet boundary conditions, respectively, in terms of the diameter.

For $N \geq 2$ the bounds are not attained and are improved with a geometric term related to the flatness of the convex set. This is a joint work with V. Amato and I. Fragalà.

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