

Optimization of the lowest Neumann eigenvalues for parallelograms

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We consider the problem of optimization of the two lowest non-zero eigenvalues of the Neumann Laplacian on bounded Euclidean domains under a perimeter constraint. In the planar case, we discuss the solution of this problem within the toy class of parallelograms. The results are contained in joint works with Corentin Léna and Vladimir Lotoreichik.