

# On Pólya's inequality for torsional rigidity and first Dirichlet Laplacian eigenvalue

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An inequality proved by Pólya establishes a bound from above of the product between the torsional rigidity and the first Dirichlet eigenvalue for the laplacian in un domain with fixed measure. We will discuss the sharpness of the bound and the possibility of improving it in suitable classes of domains.

This is a joint work with M. vand den Berg, C. Nitsch and C. Trombetti