



MAFIA - the seminar you can't refuse

## On the first Robin eigenvalue for a class of anisotropic operators

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**Abstract:** The aim of the talk is to present some results, obtained in a joint paper with N. Gavitone, about the first eigenvalue of the anisotropic  $p$ -Laplace operator with Robin boundary condition involving a function  $\beta$  which in general is not constant. More precisely, we investigate a monotonicity property of the eigenvalue with respect to the set inclusion, a Faber-Krahn type inequality and a Cheeger type inequality.

### REFERENCES

- [1] N. Gavitone, L. Trani, *On the First Robin Eigenvalue of a Class of Anisotropic Operators*, Milan J. Math. (2018) <https://doi.org/10.1007/s00032-018-0286-0>.