Some homogenization results for integral functionals with generalized growth

Elvira Zappale^{1,2}

 ¹ Department of Basic and Applied Science for Engineering, Sapienza -University of Rome, Italy
² CIMA, University of Évora, Portugal

Corresponding/Presenting author: elvira.zappale@uniroma1.it

Talk Abstract

I will present some recent results related to homogenization problems formulated in terms of integral functionals, both in the context of thin micromagnetic structures and in terms of energies with nonstandard growth conditions.

Keywords: homogenization, generalized growth, Young measures, micro-magnetics.

Acknowledgements

This research was supported by PRIN 2022 "Mathematical modelling of heterogeneous systems" (code 2022MKB7MM, CUP B53D23009360006) and International Mathematical Union. Also, this research was supported by national funds through the Fundação para a Ciência e Tecnologia, FCT, under the project UIDB/04674/2020 (https://doi.org/10.54499/UIDB/046-74/2020).

References

- [1] Eleuteri, M. Lussardi, L. Torricelli, A., Zappale, E., Homogenization and dimensional reductional in micromagnetics, in preparation.
- [2] Fotso Tachagno, J., Nnang, H., Tchinda, F., Zappale, E., Homogenization for nonconvex energies in the Orlicz-Sobolev setting.