UNIVERSITÀ DI PARMA

Dipartimento di Scienze Matematiche, Fisiche e Informatiche

Seminario di Analisi Matematica

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On the jump set of minimizers of Total-Variation based regularization problems

Mercoledì 10 gennaio 2024, ore **15:00**

Aula C, Piano -1, Plesso di Matematica e Informatica

Abstract: *In this joint work with M. Lasica (Warsaw) we revisit old results on the localization of the jump set of minimizer of the "Rudin-Osher-Fatemi" functional, that is, the total variation plus a quadratic penalization. We give more natural and simpler proof of the fact that the jump set of the solution is contained in the jump set of the data, and characterize the total-variation type functionals, in both scalar and vectorial settings, for which the result holds true. We also consider higher order regularizing functionals, for which some partial results hold.*

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