Fifteenth International Conference Zaragoza-Pau on Mathematics and its Applications
Jaca, September 10–12th 2018

On the uniqueness of minimisers of Ginzburg-Landau functionals.

Radu Ignat

SUMMARY

We provide necessary and sufficient conditions for the uniqueness of minimizers of the Ginzburg-Landau functional for vector valued maps with a boundary data that is non-negative in a fixed direction. Furthermore, we show that, when minimizers are not unique, the set of minimizers is generated from any of its elements using appropriate orthogonal transformations. We also prove corresponding results for harmonic maps.

This is a joint work with L. Nguyen (Oxford), V. Slastikov (Bristol) and A. Zarnescu (Bilbao).

[1]Universit Paul Sabatier & IUF Institut de Mathmatiques de Toulouse
118, Route de Narbonne
31062 Toulouse Cedex 9
email: radu.ignat@math.univ-toulouse.fr