

Singularities in PDE and the calculus of variations

Singularités en EDP et dans le calcul des variations

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Ginzburg–Landau equation in thin domains

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JAPAN

Abstract

I deal with Ginzburg–Landau equations in $3D$ thin domains. I consider the critical points as well as local minimizers of GL energy functional. I relate them with the simplified problem on a $2D$ domain which is the limit of thin $3D$ domain. I use one of the typical variational technique such as mountain pass lemma.