

Seminario de análisis matemático y aplicaciones
Analisi matematikoa eta aplikazioak mintegia

**Nucleation of martensite: The case of
two variants**

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ABSTRACT: I will review some results on the nucleation of martensite and austenite. This leads to interesting problems from the calculus of variations with a competition of interfacial terms and nonlocal interactions. In particular, I will focus on the restricted case when the nucleus consists of mainly two martensite variants. This case excludes self-accomodation of martensite and requires some new analytical tools. The main result of the talk is the derivation of matching upper and lower bounds for the scaling of the minimal energy.

LUGAR / LEKUA:

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