

GFM AND CMAF_cIO SEMINAR

Dia 10 Dezembro 2019 (terça-feira), às 13h30, sala 6.2.38

A two-phase two fluxes degenerate Cahn-Hilliard model as constrained Wasserstein gradient flow

Clément Cancès
(Inria Lille – Nord Europe)

Abstract: We present an original model for immiscible two-phase mixtures. This model can be interpreted as the generalised gradient flow of the same energy as for the classical degenerate Cahn-Hilliard model, but for a different geometry. Our model is shown to dissipate faster. Existence of weak solutions is established based on the convergence of a JKO semi discretization (joint work with Flore Nabet and Daniel Matthes).