



Seminário de Geometria Diferencial USP-UNICAMP

Multiple solutions for the van der Waals-Allen-Cahn-Hilliard equation

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04/05/2018 - sexta-feira

15h15 - Sala 325

Resumo: The classical Allen-Cahn equation gives a bridge between the theory of phase transition and the theory of minimal surfaces. In this talk I will discuss the existence of multiple solutions for a suitable variant of this equation, satisfying a volume constraint. This aims naturally at an existence theory for constant mean curvature hypersurfaces. Joint work with Vieri Benci (Pisa) and Stefano Nardulli (UFABC).