

UNICAMP – IMECC
Departamento de Matemática

Seminário de Sistemas Dinâmicos e Estocásticos

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Título: From cell equation in the Hamilton-Jacobi setting to zero-temperature limits in one-dimensional dynamics

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Resumo. The solutions of the periodic cell equation in the Hamilton-Jacobi equation setting appear (in a non rigorous way so far) as limit of thermodynamical objects when the temperature goes to zero. We will explain how a time-discretization of an infinite time horizon problem leads to a particular dynamical system called Frenkel-Kontorova model. We will show how the viscosity solution and the effective Hamiltonian are related to the notions of ground states configurations and zero-temperature limit of Gibbs measures.

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