

Seminário de sistemas dinâmicos e estocásticos

Departamento de Matemática - IMECC - UNICAMP

Uniform approximation of FKPP equation by stochastic particle systems

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Resumo:

In this talk we consider a system of Brownian particles with proliferation whose rate depends on the empirical measure. The dependence is more local than a mean field one and has been called moderate interaction. We prove that the empirical process converges, uniformly in the space variable, to the solution of the Fisher-Kolmogorov-Petrovskii-Piskunov equation. We use a semigroup approach which is new in the framework of these systems.

In collaboration with Franco Flandoli (University of Pisa), Matti Leimbach (Technische Universitt Berlin)

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