

Seminário de sistemas dinâmicos e estocásticos

Departamento de Matemática - IMECC - UNICAMP

Noise in nanomagnetic particle systems

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Resumo:

In the talk we discuss the role of noise in the description of nano- magnetic particle systems. We consider different approximations of the stochastic Landau-Lifshitz-Gilbert (SLLG) equation such as structure preserving discretisation and penalisation approximation and discuss the convergence of approximations and their consistency with the long time behaviour of the system. Then we show some numerical results and talk about open problems, such as existence of invariant measure, existence of solution in the case of space-time white noise, long time behaviour of approximations etc. The talk is based on joint works with A. Prohl, Z. Brzezniak, L. Banas.

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Local: Sala 321 do IMECC.

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