

UNICAMP – IMECC
Departamento de Matemática

Seminário de Sistemas Dinâmicos e Estocásticos

Expositor: K. Gelfert (UFRJ)

Título: Non-contracting iterated function systems

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Resumo. We study some simple examples of IFS's of maps on the interval that are genuinely non-contracting. The IFS's under consideration give rise to a step skew product modeled over a horseshoe map. They are naturally associated to a homoclinic class of a partially hyperbolic and topologically transitive local diffeomorphism. We discuss some shadowing-like properties, spectrum of Lyapunov exponents, and thermodynamic consequences. This is a joint work with L. J. Diaz (PUC-Rio) and M. Rams (IM PAN Warsaw).

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