

UNICAMP – IMECC  
Departamento de Matemática

## Seminário de Sistemas Dinâmicos e Estocásticos

**Expositor:** Ph. Boyland (University of Florida)

**Título:** Homological and Markov spectra in surface dynamics

**Data:** Sexta-feira, 26 de novembro de 2010, 15h

**Local:** Sala 321 do IMECC

**Resumo.** It is common in dynamics to associate a linear action to a dynamical system. Perhaps the two most common are the action on the homology groups and the matrix of a Markov partition. Their spectral radius and its associated eigenvector give information on the topological entropy and the measure of maximal entropy. In this talk we discuss the meaning and interpretation of the rest of the hyperbolic spectra. Described roughly, these other eigenvalues/vectors give rise to semi-conjugacies from a covering space to a linear map and/or eigen-distributions which are dual to a space of Hölder functions. The main application is to the dynamics of pseudoAnosov homeomorphisms on surfaces.

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