

UNICAMP – IMECC
Departamento de Matemática

Seminário de Sistemas Dinâmicos e Estocásticos

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Título: Expanding property of the equilibrium states
in one dimensional dynamics

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Local: Sala 121 do IMECC

Resumo. For a rational map f of degree at least 2 acting on its Julia set, we characterize Hölder continuous potentials φ satisfying the condition

$$\sup \frac{1}{n} \sum_{i=0}^{n-1} \varphi \circ f^i < P(f, \varphi),$$

for some positive integer number n , in terms of the expanding properties of the corresponding equilibrium states. In particular, we prove that, for a nonuniformly hyperbolic rational map, every Hölder continuous potential has a unique exponentially mixing equilibrium state.

Consulte a programação em [www.ime.unicamp.br/ssde].