* PROGRAMA DE VERÃO 2012 * SISTEMAS DINÂNICOS

Uniqueness of the maximal entropy measure and Hausdorff dimension of the exceptional set of Hénon maps Pierre Berger (CNRS - IMPA)

By the celebrated Benedicks-Carleson Theorem, for every *b* sufficiently small, there exists a Lebesgue positive set of parameters *a* such that the Hénon map

 $(x,y)\mapsto (x^2+a+y,bx)$

is nonuniformly hyperbolic. Benedicks-Young proved the existence of an ergodic SRB measure; Benedicks-Viana proved that its basin has total Lebesgue measure.

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I gave a new proof of Benedicks-Carleson for which the parameters satisfy furthermore the following property: every ergodic invariant probability of *f* is either supported by an invariant set of small Hausdorff dimension (the exceptional set), or can be lifted to an invariant measure of a positive recurrent countable shift. A consequence is that the maximal entropy measure is unique, exponentially mixing and satisfies the central limit theorem.

Data: 12 de Janeiro, às 16:00 Local: Auditório Antônio Gilioli (247/262 -- A)