## \* PROGRAMA DE VERÃO 2012 \* SISTEMAS DINÂVICOS

Regularity of weak solutions of cohomological equations under exponential decay of correlations

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Let *T* be a  $C^1$  map and *f* be a continuous real valued function on a compact manifold. Suppose that the Lebesgue measure is invariant under *T* and that correlations of  $C^1$  functions decay exponentially fast. Then the cohomological equation  $U \circ T - U = f$  admits weak solutions which are distributions in the sense of Schwartz. The question addressed in this talk is: what is the regularity of *U* in Besov spaces?

Ostalos also

Data: 08 de Fevereiro, às 14:00 Local: Auditório Antônio Gilioli (247/262 A)