



2^a Rodada

*Lyapunov exponents of
generic cocycles over volume
preserving dynamics*

*Gently forcing
 C^1 -diffeomorphisms to embed
in a flow*

EXPOSITOR: Nicolas Gourmelon
• IMPA

DATA: 29 / agosto / 2008 (sexta-feira)
HORA: 16 : 00 h
LOCAL: Sala de Seminário - 7º andar
Instituto de Matemática - UFF

RESUMO:

Let T be a volume preserving transformation of a manifold X , and $A: X \rightarrow GL_d(\mathbb{R})$ be a continuous map. Bochi and Viana proved that, given any ergodic homeomorphism T and any A in a C^0 -residual, the finest dominated splitting and the Oseledets splitting of the linear cocycle (T, A) coincide almost everywhere. We propose some generalization of these results to finer topologies.

This is a joint work with J. Bochi.

EXPOSITOR: Gioia Vago
• Université de Bourgogne

DATA: 29 / agosto / 2008 (sexta-feira)
HORA: 17 : 20 h
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RESUMO:

In the space of C^1 -diffeomorphisms of surfaces, endowed with the C^1 topology, there is an open region where, up to a small perturbation, every diffeomorphism can be embedded in a flow. We show how to choose such a small perturbation with the help of a simple worked out example.

We discuss how this construction is related to a much more general unsolved problem: understanding the topology of the set of C^1 -diffeomorphisms with trivial centralizer, that is, those which commute only with their own iterates.

This is a joint work with Christian Bonatti, Sylvain Crovisier and Amie Wilkinson.

Café EDAÍ

17:00 - 17:20

Confraternização EDAÍ
18:40 - Chope na
Praça da Cantareira