



Seminário de Sistemas Dinâmicos da UFF

QUESTIONS ABOUT THE DYNAMICS OF ALMOST EVERY CIRCLE DIFFEOMORPHISM

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Data: Sexta feira 14/11/2014

Hora: 16h.

Local: Sala de Seminários - 7º andar (Auditório da Pós-Graduação).

Resumo

There is a weak notion of Lebesgue measure defined over the group of C^1 diffeomorphisms of the circle, introduced by Malliavin and Shavgulidze by the beginning of the 90s. There is then a way to study the dynamics defined by almost every circle diffeomorphism.

Recently, I've been giving a series of lectures at PUC (see [1]) explaining what it is possible to say about it: *almost nothing*. In this talk I will mainly focus on the unsolved questions: the tools developed so far seem inadequate to answer even the most natural ones.

This talk is not meant to be technical, but rather a survey on what we do and do not know, keeping in mind the classical theory of circle diffeomorphisms after Denjoy, Arnol'd, Herman, Yoccoz...

Suggestions are welcome!

[1] <http://www.mat.puc-rio.br/curso%20Michele.pdf>