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3ª Rodada

Instituto de Matemática da UFRJ, Bloco C do CT
13 de março (sexta-feira)

Matinée EDAÍ Fenômenos de Newhouse: persistência de tangências e infinidade de poços

EXPOSITOR: Lorenzo J. Díaz (PUC - Rio)
HORA: $14\!:\!30\,$h
RESUMO: Discutiremos os mecanismos de geração de tangências persistentes nas topologias C^1 e C^2. Veremos alguns dos fenômenos dinâmicos associados à persistência de tangências, como a genericidade local de infinidade de poços/fontes e a não-existência de extensões simbólicas.

Asymptotic likelihood of chaos for families of circle maps

EXPOSITOR: Hiroki Takahashi (Kyoto)
HORA: $16\!:\!00\,$h
RESUMO: Motivated by certain periodically kicked ODEs, Wang and Young considered a smooth two-parameter family of circle maps with a finite number of critical points. Let (a, L) denote the two parameters. The maps wrap the circle more and more times for larger L. For fixed L sufficiently large, we construct a positive measure set of a-values corresponding to absolutely continuous invariant probability measures. The measure of this set tends to full measure in a-space as L tends to infinity.

Café EDAÍ
17:00 - 17:30

Index problem of homoclinic classes under the robust absence of dominated splitting

EXPOSITOR: Katsutoshi Shinohara (Tokyo)
HORA: $17\!:\!30\,$h
RESUMO: In the article of Abdenur, Bonatti, et al., it was proved that, for generic C^1-diffeomorphisms, the set of indices of periodic points forms an interval (of natural numbers).
In my talk, I will discuss the following inverse problem: For a given interval (say J), can one construct a homoclinic class $H(p)$ such that the set of indices of periodic points in $H(p)$ coincides with J?
This problem is not so difficult under the assumption of some kind of hyperbolicity. We consider this problem under the robust absence of dominated splitting on $H(p)$.

Confraternização EDAÍ
19:30 - Planalto do Chopp no Flamengo