



EDAÍ 5 de novembro de 2010 na PUC–Rio

Sala L856. Depto. de Matemática. Edifício Cardeal Leme.

Palestra 1: 14h30 – 15h30

David homeomorphisms via Carleson boxes

Edson de Faria (IME–USP)

We construct a family of examples of increasing homeomorphisms of the real line whose local quasi-symmetric distortion blows up almost everywhere, which nevertheless can be realized as the boundary values of David homeomorphisms of the upper half-plane. The construction of such David extensions uses Carleson boxes. We will take some time to introduce the notions of quasi-symmetric distortion, David homeomorphisms and Carleson boxes.

Palestra 2: 15h45 – 16h45

The homological and Markov spectra in surface dynamics

Philip Boyland (University of Florida)

It is common in dynamics to associate a linear action to a dynamical system. Perhaps the two most common are the action on the homology groups and the matrix of a Markov partition. Their spectral radius and its associated eigenvector give information on the topological entropy and the measure of maximal entropy. In this talk I will discuss the meaning and interpretation of the rest of the hyperbolic spectra. Described roughly, these other eigenvalues/vectors give rise to semi-conjugacies from a covering space to a linear map and/or eigen-distributions which are dual to a space of Hölder functions. The main application is to the dynamics of pseudoAnosov homeomorphisms on surfaces.

Café: 16h45 – 17h15

Palestra 3: 17h15 – 18h15

Exemplos de difeomorfismos minimais no toro bidimensional

Martín Sambarino (Universidad de la Republica, Montevideo)

Mostraremos que é possível construir exemplos de difeomorfismos minimais de classe $C^{3-\epsilon}$ semiconjugados a translação ergódica no toro. Discutiremos também certas propriedades topológicas destes exemplos. A construção está baseada no DA de Mañé em \mathbb{T}^3 .

Confraternização EDAÍ: 19h00 – ∞

Confraternização no Garota da Gávea