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71º EDAÍ 20 de Outubro de 2017

Auditório do bloco G, Campus do Gragoatá, UFF

Palestra 1: 14h30 – 15h30

Ergodic action of mapping class group on Teichmüller space of symplectic structures

Misha Verbitsky (IMPA)

Symplectic Teichmüller space is the space of symplectic structures up to isotopy. It is a smooth, finite-dimensional, possibly non-Hausdorff manifold, equipped with an action of the mapping class group. I will give examples when this action is ergodic and explain some geometric consequences of ergodicity.

Palestra 2: 15h45 – 16h45

A rigidity theorem for Anosov geodesic flows

Sergio Romaña (UFRJ)

In this seminar we will show how the Anosov dynamics of geodesic flows impose conditions of rigidity on geometry. More specifically, we will prove that the constant of contraction of the geodesic flow can be controlled with the sectional curvature, and this control provides rigidity.

Café: 16h45 – 17h15

Palestra 3: 17h15 – 18h15

Rotation vectors for minimal two torus diffeomorphisms

Xiaochuan Liu (IMPA)

In this talk, we will look at the pointwise rotation vector for a smooth two torus diffeomorphism. We show that there exist examples where for Lebesgue almost every point of T^2, the pointwise rotation vector is not well defined. That is, when we try to use the usual way to define this number, the limit does not exist. The method we use, is a variant of Artur Avila's method to obtain a counter-example of Franks-Misiurewicz conjecture. Avila's method is a variant of Anosov-Katok method of fast approximation and conjugation. This is a joint work with A. Avila and D. Xu.

Confraternização: 19h00 – ∞ - Chopp na Cantareira

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