30º EDAÍ
Dedicado a Maria José Pacifico na ocasião de seus 60 anos

20 de abril de 2012   Sala C116 do Bloco C (Matemática), CCMN, UFRJ.

☞ Atenção: os horários foram adiantados! Início às 13h00.

Palestra 1: 13h00
Partially hyperbolic diffeomorphisms with compact center leaves
Pablo Carrasco (IMPA)

The periodic orbit conjecture of Reeb-Haefliger states that for any foliation by compact leaves on a compact manifold, the riemannian volume of the leaves is uniformly bounded from above. The beautiful counter-example of D. Sullivan gives a negative answer of this conjecture and hence one has to take particular care with this type of foliations.

We will address the case when the foliation is a normally hyperbolic foliation, or more specifically when the foliation is the center foliation of a partially hyperbolic diffeomorphism. In this case, as we will see, the truthness of the conjecture allows to classify (in certain cases) not only the foliation but the dynamics as well. We will establish equivalent conditions for the conjecture to be true in this context, and we will discuss the case when the foliation is C^1 or one-dimensional.

Palestra 2: 14h00
Forced dynamical systems
Ale Jan Homburg (University of Amsterdam)

Skew product systems $(y, x) \mapsto (g(y), f_y(x))$ arise in contexts of random dynamical systems (where g models noise), of iterated functions systems (where g is a Bernoulli shift) and of partially hyperbolic systems (obtained for instance as perturbations from hyperbolic g and f_y equal to the identity). The base system g forces the system f_y in the fibers. I'll discuss results for such systems focussing on bifurcations and synchronization (where orbits of initial points in the same fiber are attracted towards each other).

Café: 15h00

Palestra Especial: 15h30
Sobre as contribuições de Maria José Pacífico aos Sistemas Dinâmicos
Enrique Pujals (IMPA)

Confraternização : 16h30
IM–UFRJ

Confraternização e Jantar: 19h00
Bráz (Jardim Botânico)

☞ Para receber informações sobre e divulgar eventos de Sistemas Dinâmicos na região fluminense, inscreva-se no mailinglist: ✍
http://groups.google.com/group/DinamiCarioca