



Mês de: Outubro 2008

SEMINÁRIO DE ANÁLISE E EQUAÇÕES DIFERENCIAIS

Dia 20 de Outubro (segunda-feira), às 11h30, na Sala B3-01

On the global attractor of a family of delay differential equations

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Abstract:

The aim of this talk is showing how one-dimensional maps may be used to get sharp bounds of the global attractor for delay differential equations of the form

$$x'(t) = -\delta x(t) + f(x(t - \tau)),$$

With $\delta \geq 0$, $\tau > 0$. This equation was widely applied in biological models, including the well-known Wright's equation and the Mackey-Glass equations.

We also discuss some open problems related to the global dynamics of the solutions in this family of differential equations with delay.

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