



**Mês de:                   FEVEREIRO 2013**

**SEMINÁRIO DE ANÁLISE E EQUAÇÕES  
DIFERENCIAIS**

**Dia 21 de Fevereiro (quinta-feira), às 13h30, na Sala B3-01**

On a class of inverse parabolic problems with functional observation

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**Abstract:**

In this work we prove existence and uniqueness of solution for a class of linear inverse problems of parabolic type. In the Hilbertian abstract framework, we find the right-hand side together with the solution subjected to a linear functional constrain depending on time. By means of a Galerkin approach and the reduction to a simple Volterra integral equation of second kind, we are able of consider a general class of nonlocal problems, with low regularity assumptions, extending recent results of K. Pileckas motivated by nonstationary Poiseuille flows with prescribed flux.

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