

SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes, 10 de junio de 2011

11:30 h., Módulo 17 (antiguo C-XV) - Aula 520 (Depto. Matemáticas UAM)

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Carleman estimates and inverse problems for some dynamical system from anisotropic elasticity theory

Resumen:

We derive Carleman type estimates for the system of elasticity with residual stress and apply them to obtain uniqueness and stability of the continuation results and to identification of the elastic parameters. We obtain Hölder and Lipschitz type stability estimates for various boundary data. A technical tool is Carleman estimates with two large parameters for general partial differential operators of second order.

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