

SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes, 19 de Octubre de 2018

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

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ICMAT-UAM

Sharp Carleman estimates for
parabolic and wave operators with
critically singular potentials

Resumen:

In this talk I will discuss the role of Carleman estimates in the study of uniqueness problems related to heat and wave propagation through bounded domains in the presence of a critically singular potential. These problems are partially motivated by the connection between certain parabolic and wave equations with potentials diverging as an inverse square at the boundary and scalar equations posed near the infinity of asymptotically hyperbolic and asymptotically anti-de Sitter spaces, respectively. The talk is based in a joint work with A. Enciso (ICMAT) and A. Shao (QMUL).

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