



Departamento de Matemática Aplicada

Seminario
Matemática Aplicada - UCM

Curso 2014-2015

Viernes 6 de febrero de 2015

Facultad de CC. Matemáticas
Sala 209. Seminario Alberto Dou

12:00. Andrea Tellini. Centre d'Analyse et de
Mathématique Sociales de París.

“Propagation in a cylinder with fast diffusion and
transport on the boundary”

RESUMEN:

In this talk I will present the effect that large diffusion and transport occurring only on the boundary have on the propagation inside an infinite cylinder. In particular, I will show the properties of the speed of propagation and compare them with the classical homogeneous case or with the case of heterogeneities in other geometries, like a half-space. This kind of problems, with spatial heterogeneities only in a part of the domain with smaller dimension than the whole environment, are motivated by engineering and ecological applications.

Organiza:

Departamento de Matemática Aplicada. UCM.