Seminario del Departamento de Matemática Aplicada
E.T.S. Arquitectura - U.P.M.

Diffusion-Driven Instability

Georg Hetzer
Auburn University, USA

RESUMEN

The concept of diffusion-driven instability goes back to Turing who proposed it as a mechanism for pattern formation. In terms of reaction-diffusion systems, Turing instability occurs if a stable spatially homogeneous equilibrium in the absence of diffusion becomes unstable in the presence of diffusion. After reviewing the classical theory, I present some results of joint work with A. Madzvamuse and Wenxian Shen for the case of evolving domains and discuss work in progress for nonlocal diffusion.

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Hora: 12:00

Lugar: Aula XC4