

Fernando Quirós

Title: *Large-time behaviour in nonlocal heat equations with memory*

Abstract

In this talk we will review several recent results, in collaboration with Carmen Cortázar (PUC, Chile) and Noemí Wolanski (IMAS-UBA-CONICET, Argentina), on the large-time behaviour of solutions to fully nonlocal heat equations involving a Caputo time derivative and a power of the Laplacian. The Caputo time derivative introduces memory effects that yield new phenomena that are not present in classical diffusion equations.