

Tomás Caraballo

Long-time behavior of PDEs, attractors and related results

Short bio:

Dr Tomás Caraballo is Professor at the Departamento de Ecuaciones Diferenciales y Análisis Numérico of the University of Sevilla, Spain. Professor Caraballo received his Ph.D. in Mathematical Sciences from the University of Sevilla in November 1998. His research interests include deterministic and stochastic dynamical systems and applications from the applied sciences. More specifically, he has worked on stochastic partial differential equations, models with delay and memory, impulsive systems, non-autonomous and random dynamical systems, nonlocal differential equations including those of fractional time, models from biology, epidemiology, physics, population dynamics, etc. He has published more than 400 papers so far. More information can be found in his homepage below:

Link: <https://personal.us.es/caraball/tcgpublic.html>

A short abstract of the course:

In this talk we will first recall the basic definitions, concepts and results about the long-time behavior of infinite dimensional dynamical systems (autonomous dynamical systems, global attractors and their structures, applications to problems modeled by PDEs). Next we will motivate the theory of non-autonomous and random dynamical systems and offer an overview of the already developed theory and the current lines of research.