

Conferencia

Santaló 2024

La Facultad de Ciencias Matemáticas y la Revista Matemática Complutense organizan anualmente la Conferencia Santaló, en memoria de Luis Santaló (1911-2001), doctor por esta universidad. La conferencia es impartida cada año por un/a profesor/a de reconocido prestigio. La conferenciante de este curso es:

Juan José López Velázquez

Universidad de Bonn, Alemania

*Kinetic equations
describing open systems*

In this talk I will describe several examples of kinetic equations for which the boundary conditions imply the exchange of some quantity (mass, momentum or energy) with the surroundings. A consequence of this is that the resulting solutions do not converge to an equilibrium solution, although in some cases the solutions can converge to steady states, but they can yield also periodic oscillations or in some cases solutions that can be described as self-similar solutions in some regions of the space of parameters. Specific examples of equations that will be described include the classical Boltzmann equation, the Smoluchowski coagulation equation, the Becker-Döring equation of the theory of nucleation and some of the kinetic equations arising in the so-called Wave Turbulence theory.

Viernes, 4 de octubre de 2024, 13:00 h
Aula Miguel de Guzmán
Facultad de Ciencias Matemáticas UCM



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