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Eigenvalues and approximation of (Cantor) dynamical systems: 20 years of mathematics with the CMM and Chile

Fabien Durand (Université Picardie Jules Verne, France)

Abstract: In this talk we will present a well known and nice way to approximate dynamical systems from an ergodic and topological point of view.

We will then use these approximations to understand the existence of continuous eigenfunctions for the Koopman operator. This will be illustrated through many examples.

This will give me the opportunity to show a small part of the strong mathematical cooperation between France and Chile.

This much older cooperation gave rise to the association of the CNRS with the CMM in 2000, almost 20 years ago.