

## **Ceremonia inaugural de los Laboratorios Internacionales Asociados al CNRS**

Instituto Franco-Uruguayo de Física  
Instituto Franco-Uruguayo de Matemática e Interacciones

Jueves 5 de diciembre 2019, 17 horas, edificio polifuncional J. L. Massera,  
anexo a la Facultad de Ingeniería

### Programa:

- 17:00, Bienvenida - presentación de los LIAs.
- 17:20, Conferencia: "From numbers dust to Entropy", Françoise Dal'bo, Université de Rennes.

**Abstract:** We start with an iterative construction producing an infinite subset of numbers. To this set is associated a number, its dimension, which reflects its infinitesimal architecture. The aim of this talk is to develop a dynamical point of view on this set and to relate its dimension to the entropy of a flow.

- 18:10, Conferencia: "From Time-Reversal Physics to Innovation: How to transform a nice concept in start-up companies?" Mathias Fink, Institut Langevin.

**Abstract:** Can we make a wave relive its past life? The development of "time reversal mirrors" for different types of waves: sound, ultrasonic, electromagnetic, light and even water waves has made it possible to experimentally test time reversibility in varied propagation environments and regimes. These instruments not only shed new light on the problem of the irreversibility of time, they also provide original solutions to wave control in complex environments and to imaging of these environments. The objective of this talk is to show how this concept can be turned into a huge source of innovations and successful start-up companies with applications in medicine, telecommunications, human-machine interface and defense.

- 19:00, Palabras de las autoridades de las instituciones participantes.

Al finalizar la ceremonia celebraremos con un brindis.

Asistencia libre para todos los investigadores y estudiantes de Física, Matemática y áreas afines.



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