FACULTAD DE CIENCIAS
FÍSICAS Y MATEMÁTICAS
UNIVERSIDAD DE CHILE

CMM
Center for
Mathematical
Modeling

cmm.uchile.cl

Beauchef 851, edificio norte, piso 7
Santiago, CHILE
CP 837 0456

tel +56 2 2978 4870

Seminario

Centro de Modelamiento Matemático

Expositora

María J. Esteban
CEREMADE
Université de Paris-Dauphine, Francia

Título

Functional inequalities, flows, symmetry and spectral estimates

ABSTRACT:

In this talk I will review recent result about how the use of linear and nonlinear flows has been key to prove functional inequalities and qualitative properties for their extremal functions. I will also explain how from these inequalities and their best constants, optimal spectral estimates can be obtained for Schrödinger operators.

This is a topic which is at the crossroads of nonlinear analysis and probability, with implications in differential geometry and potential applications in modelling in physics and biology.

Viernes 07 de diciembre del 2018 a las 11:00 hrs, en Beauchef 851, Torre Oriente, Depto. DII, 4to Piso, sala 401.

