



universität
wien

Fakultät für Mathematik

Mathematisches Kolloquium

EINLADUNG

María Estebán

(Université de Paris-Dauphine)

"Using nonlinear flows to prove optimal symmetry and symmetry breaking results for functional inequalities and rigidity results for nonlinear elliptic PDEs on manifolds"

"Using nonlinear flows to prove optimal symmetry and symmetry breaking results for functional inequalities and rigidity results for nonlinear elliptic PDEs on manifolds"

Abstract:

The analysis of optimality and symmetry properties of extremals in functional inequalities has been performed recently by introducing nonlinear flows into the picture. These results solve conjectures about symmetry and symmetry breaking in functional inequalities which play an important role in various areas of analysis. Also, as a consequence we have obtained optimal estimates for the principal eigenvalues of linear operators and rigidity results of solutions of nonlinear elliptic PDEs for compact and noncompact in Riemannian manifolds. This work has been done in collaboration with J. Dolbeault and M. Loss.

**Zeit: Mittwoch 19. Oktober 2016
15.45 Uhr Kaffeejause,
16.15 Uhr Vortrag,
vinum cum pane im Anschluss**

**Ort: Fakultät für Mathematik,
Oskar-Morgenstern-Platz 1,
Sky Lounge**

Gerald Teschl
Christian Krattenthaler