



Speaker: Alessio Figalli
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Monday, April 8, 2013
4:15 PM
129 Hayes-Healy Hall

Title: Stability results for functional inequalities and applications

Abstract:

Geometric and functional inequalities play a crucial role in several problems arising in the calculus of variations, partial differential equations, geometry, etc. More recently, there has been a growing interest in studying the stability for such inequalities. The basic question one wants to address is the following: suppose we are given a functional inequality for which minimizers are known. Can we prove that if a function “almost attains the equality” then it is close (in some suitable sense) to one of the minimizers? The aim of this talk is to describe some ways to attack this kind of problems, and show some applications.