



Speaker: Luis Silvestre
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Wednesday, December 3, 2014
4:00 PM
231 Hayes-Healy Hall

Title: Regularity estimates for non local equations and applications

Abstract:

In this talk we will survey some regularity results for elliptic and parabolic integro-differential equations and we will discuss some of their applications. These non local equations behave similarly as traditional elliptic and parabolic equations in the sense that they satisfy a maximum principle and have some regularization properties. They classically appear from the study of discontinuous stochastic processes, but they now have applications in several other subjects.