



Speaker: Guozhen Lu
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Wednesday, November 18, 2015

4:00 PM

117 Hayes-Healy Hall

Title: Best Constants and Maximizers of Caffarelli-Kohn-Nirenberg and Moser-Trudinger inequalities

Abstract:

In this talk, we will describe some recent works on best constants and maximizers of Caffarelli-Kohn-Nirenberg inequalities with the presence of the weights. Best constants are identified and existence of maximizers are proved and in some special cases explicit forms of maximizers are found for the Caffarelli-Kohn-Nirenberg inequalities. Existence and Symmetry of maximizers of Moser-Trudinger inequalities are also discussed. These are joint works with Nguyen Lam (University of Pittsburgh), Lu Zhang (Wayne State University).