

DIFFERENTIAL GEOMETRY/PDE SEMINAR

WEDNESDAY, OCTOBER 21, 2015

PADEL FORD C-36

4PM–5PM

Best constants and maximizers of Caffarelli-Kohn-Nirenberg
and Moser-Trudinger inequalities

Guozhen LU

(WAYNE STATE U.)

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), Mengxia Dong (Wayne State University), Lu Zhang (Wayne State University).

For more information about this seminar, visit the DG/PDE Seminar Web page (from the Math Department home page, www.math.washington.edu, follow the link **Seminars, Colloquia, and Conferences**).

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