72nd Midwest PDE Seminar Purdue University, November 16–17, 2013

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Sat, Nov 16, 4:55–5:15, REC 122

Moser-Trudinger and Adams inequalities and applications

Abstract. In this talk, we will discuss some recent development on sharp subcritical and critical Moser-Trudinger-Adams inequalities on Euclidean spaces and Heisenberg groups. Due to the absence of the symmetrization argument on the Heisenberg group and also on the high order Sobolev spaces, we develop a rearrangementfree method to establish these sharp inequalities. These are joint works with Guozhen Lu.