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Nguyen Lam* (nhlam@pitt.edu), Department of Mathematics, 301 Thackeray Hall, Pittsburgh, PA 15260, **Guozhen Lu** (gzlu@wayne.edu), Department of Mathematic, 1150 FAB, 656 W Kirby, Detroit, MI 48202, and **Lu Zhang** (eu4347@wayne.edu), Department of Mathematic, 1150 FAB, 656 W Kirby, Detroit, MI 48202. *Equivalence of critical and subcritical sharp Moser-Trudinger-Adams inequalities.*

In this talk, we will report our recent work on sharp Moser-Trudinger-Adams inequalities. More precisely, we will show the equivalence of critical and subcritical sharp Moser-Trudinger-Adams inequalities. This proposes a new approach to the study of critical sharp Moser-Trudinger-Adams inequalities. This is joint work with Guozhen Lu and Lu Zhang. (Received February 20, 2015)