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Maochun Zhu* (zhumaochun2006@126.com), School of Mathematical Sciences, Beijing Normal University, Beijing, 100875, Peoples Rep of China. *A sharp Moser-Trudinger type inequality involving L^n norm on \mathbb{R}^n .*

In this talk, I will present an improved Moser-Trudinger inequality on unbounded domains, and show that the supremum is attained under suitable assumptions. The method we used is the blow-up analysis. This is joint work with Guozhen Lu. (Received February 22, 2015)