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Guozhen Lu* (gzlu@wayne.edu), Department of Mathematics, Wayne State University, Detroit, MI 48202, **Hanli Tang**, School of Mathematical Sciences, Beijing Normal University, and **Maochun Zhu**, School of Mathematical Sciences, Beijing Normal University. *Sharp Moser-Trudinger inequality on hyperbolic spaces and Adams inequality with the exact growth condition.*

In this talk, we will report some recent works on best constants for sharp Moser-Trudinger inequalities on high dimensional hyperbolic spaces with exact growth. This part is joint work with Hanli Tang. We will also present best constants for sharp Adams inequality with the exact growth condition in the entire Euclidean spaces. This part of the talk is joint work with Hanli Tang and Maochun Zhu. (Received January 16, 2015)