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Trudinger-Moser Inequalities on Riemannian Manifolds.

As the borderline case of Sobolev inequalities, Trudinger-Moser inequalities have wide applications to the differential geometry and PDE. In this talk, I will first introduce a recent progress of Trudinger-Moser inequalities on noncompact Riemannian manifolds. I will also talk about a Trudinger-Moser type inequality for smooth maps between Riemannian manifolds. The first topic is a joint work with Guozhen Lu and the second topic is a joint work with Guozhen Lu and Xing Wang. (Received February 04, 2019)