Temple University Mathematics Colloquium

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will speak on

On sharp constants and extremals for Moser-Trudinger inequalities in Euclidean and CR settings

ABSTRACT: In this talk, we will survey some known results of sharp Moser-Trudinger inequalities in CR setting such as the Heisenberg group or complex spheres, Then we will review results in the Euclidean spaces and Riemannian manifolds of sharp constants and extremal functions for the Moser-Trudinger inequalities. Finally, we present some recent results on sharp constants and extremal functions for modified Moser-Trudinger inequalities involving L^p norms in two dimension.

Monday, April 30, 2007
Lecture at 4:00 pm ($\sharp$)
Coffee, tea, and refreshments from 3-5 pm
Room 617, Wachman Building
Department of Mathematics