Gradient estimate and spectral rigidity for nonlinear Laplacian

Chiung-Jue Anna Sung

National Tsing Hua University
E-mail: cjsung@math.nthu.edu.tw

Abstract

The talk primarily concerns the analysis of the p-Laplacian. We will first explain a sharp gradient estimate for the positive eigenfunctions. As an application, we then discuss the rigidity of manifolds with maximal principal eigenvalue. Finally, we will mention an Agmon type estimate.