GEOMETRIC ANALYSIS SEMINAR

"Approximation of optimal constants and extremal functions for Poincaré's inequality"

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Abstract: We employ discrete and continuous time flows to approximate optimal constants and functions for which equality holds in various Poincaré type inequalities. The discrete time scheme is based on the inverse iteration method for square matrices and the continuous time flow is a particular type of doubly nonlinear evolution. We will also discuss applications to more general inequalities that arise in Riemannian geometry.

Wednesday, October 26th, 2016
MIT, Room 4-153
Time: 4:00 PM

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