Boğaziçi
MATH COLLOQUIUM

Nonlinear flows and optimality for functional inequalities

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Abstract: In this talk I will present some recent results about the qualitative properties of extremal functions for functional inequalities. I will show that linear and nonlinear flows are a very good tool to do this in an optimal way. The main subject of my talk will be the symmetry of extremals for Caffarelli-Kohn-Nirenberg inequalities on the Euclidian space. But I will also explain how this method can be used to derive similar inequalities and results on Riemannian manifolds.

This talk is organized in cooperation with İstanbul Center for Mathematical Sciences (IMBM).

Date : Wednesday, March 30, 2016
Time: 15:00
Place: TB 240, Boğaziçi University