Colloquium

September 13, 2013

HH-3017, at 2 p.m.

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Divergence for s-concave and log concave functions

Abstract:

We prove new entropy inequalities for log concave and s-concave functions that strengthen and generalize recently established reverse log Sobolev and Poincare inequalities for such functions. This leads naturally to the concept of fdivergence and, in particular, relative entropy for s-concave and log concave functions. Applications are given in the theory of convex bodies.