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 f-divergence and, in particular, relative entropy for s-concave and log concave functions. Applications are given in the theory of convex bodies.