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Title: Measure concentration, transportation cost, and functional inequalities \*

Abstract: We present a triple description of the concentration of measure phenomenon, geometric (through Brunn-Minkowski inequalities), measure-theoretic (through transportation cost inequalities) and functional (through logarithmic Sobolev inequalities), and investigate the relationships between these various viewpoints by means of hypercontractive bounds. This expository introduction directed at students and newcomers to the field has been already delivered at the Edinburgh ICMS meeting last April.