

# Asymptotic Geometric Analysis: Geometrization of Probability

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**Abstract:** We study asymptotic phenomena of high-dimensionality. In the short introduction to our talk we will discuss different and unexpected phenomena accompanying high dimension. In the second, the main part of the talk, we will explain how the geometric theory of convexity is extended to a larger category of log-concave measures which bring inside this class of (probability) measures geometric vision and approach. This brings inside the theory functional versions for many geometric inequalities, and also leads to solutions of some central problems of the theory. The talk will be understandable to any graduate student in Mathematics.