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Kolmogorov entropy for classes of convex functions

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Kolmogorov ε -entropy of a compact metric space measures its *metric massivity* and thus replaces its dimension which is usually infinite. The notion of ε -entropy quantifies the compactness property of a metric space and it is widely applied in pure and applied mathematics. In information theory the ε -entropy of a compact metric space is the most economic quantity of information that permits a recovery of the space with accuracy ε . We study the problem of asymptotic behavior of the ε -entropy for uniformly bounded classes of convex functions in L^p -metric, proposed by A. I. Shnirelman.