

ON THE MONGE-AMPÈRE EQUATION IN INFINITE DIMENSIONS

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ABSTRACT. We prove that the optimal transportation mapping that takes a Gaussian measure γ on an infinite dimensional space to an equivalent probability measure $g \cdot \gamma$ satisfies the Monge-Ampère equation provided that $\log g \in L^1(\gamma)$ and $g \log g \in L^1(\gamma)$.

1. INTRODUCTION AND MAIN RESULT

The Monge-Kantorovich problem and the Monge-Ampère equation have become a very popular object of research in the last decade (see [1], [15], [20], where one can find additional references). In the finite dimensional case, considerable progress has been achieved by Brenier [5] and McCann [13], whose works stimulated a growing flow of publications. Among important earlier contributions one should mention Sudakov's research [16]. In this paper we are interested in the infinite dimensional situation and extend several recent results from [9], [10], [11]. Our principal contribution is a derivation of the Monge-Ampère equation for transformations of Gaussian measures on infinite dimensional spaces. We shall use the following important existence result from [9]. Let X be a locally convex space and let γ be a centered Radon Gaussian measure on X with the Cameron-Martin space H . The natural inner product in H is denoted by $\langle \cdot, \cdot \rangle_H$; the corresponding norm is $|\cdot|_H$. One may assume without loss of generality that $X = \mathbb{R}^\infty$, the countable power of the real line, and that γ is the countable power of the standard Gaussian measure; then $H = l^2$. Suppose that we are given a probability measure $g \cdot \gamma$ such that

$$W_H(\gamma, g \cdot \gamma)^2 = \inf_{\mu \in \mathcal{P}(\gamma, g \cdot \gamma)} \int_{X \times X} |x_1 - x_2|_H^2 d\mu(x_1, x_2) < \infty,$$

where $\mathcal{P}(\gamma, g \cdot \gamma)$ is the set of all Radon probability measures on $X \times X$ whose projections on the first and second factors are γ and $g \cdot \gamma$. Then there exists a unique Borel mapping $T: X \rightarrow X$ sending γ to $g \cdot \gamma$ such that $W_H(\gamma, g \cdot \gamma)^2 = \int_X |T(x) - x|_H^2 d\gamma$. This mapping is called the optimal transportation plan or the optimal transportation mapping. An effective sufficient condition for $W_H(\gamma, g \cdot \gamma)$ to be finite is the finiteness of entropy

$$\text{Ent}_\gamma g := \int_X g \log g d\gamma < \infty.$$

This is a consequence of the Talagrand inequality ([18], see also [12] for other inequalities of this type). This transportation plan has the form $T = I + \nabla \Phi$, where Φ belongs to the Sobolev class $W^{2,1}(\gamma)$ and is 1-convex (see the definition below). If $g > 0$ γ -a.e. and $\log g \in L^1(\gamma)$, then there exists a mapping S such that T and S are reciprocal, i.e., one has

$$T \circ S(x) = S \circ T(x) = x \quad \text{for } \gamma\text{-a.e. } x.$$

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