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On harmonic maps from stochastically complete manifolds. (English summary)

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In the paper under review a nonexistence theorem is obtained for harmonic maps from a stochastically complete manifold to a cone-type domain S in a Riemannian manifold N , i.e., a subset $S = \{x \in N: \varphi(x) < 0\}$, where $\varphi: N \rightarrow \mathbb{R}$ is a strictly convex (subharmonic) function. The proof relies on a generalized version of the maximum principle that holds for stochastically complete Riemannian manifolds. As an application, a result is given on the size of minimal submanifolds of Riemannian manifolds whose sectional curvature is bounded from above. *Theodoros Vlachos*

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Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.