

**HAUSDORFF DIMENSION THEOREMS FOR SELF-SIMILAR MARKOV
PROCESSES**

Luqin Liu
Yimin Xiao

Abstract: Let $X(t)(t \in R_+)$ be an α -self-similar Markov process on R^d or R_+^d . The Hausdorff dimension of the image, graph and zero set of $X(t)$ are obtained under certain mild conditions. Similar results are also proved for a class of elliptic diffusions.

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