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Subsets with finite measure of multifractal Hausdorff measures. (English) Zbl 0963.28004
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Summary: Let μ be a Borel probability measure on \mathbb{R}^d , $q, t \in \mathbb{R}$. Let $\mathcal{H}_\mu^{q,t}$ denote the multifractal Hausdorff measure. We prove that, when μ satisfies the so-called Federer condition for a closed subset $E \in \mathbb{R}^n$ such that $\mathcal{H}_\mu^{q,t}(E) > 0$, there exists a compact subset F of E with $0 < \mathcal{H}_\mu^{q,t}(F) < \infty$, i.e., finite-measure subsets of multifractal Hausdorff measure exist.

MSC:

28A78 Hausdorff and packing measures

Cited in 1 Document

Keywords:

measure; Borel probability measure; multifractal Hausdorff measure; Federer condition; finite-measure subsets