

Seminar 2023

Math

Near-optimal restriction estimates for Cantor sets on the parabola

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Abstract: For any $0 < \alpha < 1$, we construct Cantor sets on the parabola of Hausdorff dimension α such that they are Salem sets and each associated measure satisfies the $L^2 \rightarrow L^p$ restriction estimate for all $p > 6/\alpha$. The range of p is optimal except for the endpoint. This is an analogue of works of Shmerkin-Suomala and Laba-Wang. They considered fractal subsets of \mathbb{R}^d , whereas we consider fractal subsets of the parabola.



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