
HONG WANG, UCLA

Distance sets spanned by sets of dimension $d/2$

If E is a set of Hausdorff dimension $d/2$ on \mathbb{R}^2 , how large is its distance set $\Delta(E) := \{|x - y|, x, y \in E\}$. It turns out that the problem is quite different from the one about sets of dimension $> d/2$. We will explain the difficulties and our results.

This is joint work with Pablo Shmerkin.