

Steinhaus-type property for "small" compact sets.

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Abstract

The aim of my talk is to give the construction of a fractal in \mathbb{R}^2 which has full projections and nowhere dense sumsets. The problem considered here is connected with a family of such sets for which additive operators (additive functionals) bounded (bounded above) on them have to be continuous. The talk is based on the manuscript "Compact Sets with large projections and nowhere dense sumsets" by R. Balka, M. Elekes, V. Kiss, D. Nagy, M. Poor.