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Sizes of rearrangements of linear Cantor sets

Each compact subset of $[0, 1]$ is defined by its (countable) collection of complementary gaps. The collection of all of the lengths of these gaps encodes a great deal of information about the geometry of the set (in particular various dimensions). A “rearrangement” of a set has the same collection of gap lengths (but with a different ordering). In this talk we will give a brief survey of results about the “size” (box-counting, packing, Hausdorff, and Assouad dimensions) of rearrangements of a Cantor set. (Joint work with Ignacio Garcia, Kathryn Hare, and Leandro Zuberger)