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Sabrina Kombrink* (kombrink@math.uni-bremen.de). *Minkowski content of self-conformal sets in \mathbb{R}^d .*

The Minkowski content can be viewed as an analogue of the notion of volume for fractal sets. It carries information on the geometric structure of the underlying set and is capable of distinguishing between sets of the same “fractal” dimension.

In this talk, we present conditions under which the Minkowski content is proven to exist for self-conformal sets, i. e. sets that arise as the invariant sets of conformal iterated function systems. Further, we show how the Minkowski content can be determined for this class of sets. (Received December 11, 2011)