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Geometry of restricted continued fraction digit sets and Lüroth digit sets

Abstract: In this talk we will discuss geometric features of limit sets of infinitely generated conformal graph directed systems. Examples of such limit sets, which we will focus on, are the restricted continued fraction digit sets $F_\Lambda := \{[a_1, a_2, \ldots] \ : \ a_n \in \Lambda, \ n \in \mathbb{N}\}$ for given $\Lambda \subset \mathbb{N}$ and analogously defined restricted Lüroth digit sets. Here, $[a_1, a_2, \ldots]$ denotes the continued fraction expansion with digits $a_1, a_2, \ldots$. This is joint work with M. Kesseböhmer.