

## 数論セミナー

日時: 2024年3月30日(金) 16:40～

場所: D814+Hybrid

講演者: 高橋 博樹 (慶応大学)

講演題目:

The distribution of the largest digit for iterated function systems of the interval

アブストラクト:

We consider the distribution of the largest digit in generalized continued fraction expansions of real numbers. For functions with various growth rates, we show that the Hausdorff dimension of the corresponding level sets is constantly equal to one. This result considerably generalizes that of Wu and Xu (2009) on the regular continued fraction. We employ a dynamical approach that in part relies on the dimension theory of non-autonomous iterated function systems.

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