数論セミナー

日時：2024年3月22日（金）16：40 ～
場所：自然学系棟 D814 + Hybrid
講演者：鈴木 新太郎 (東京学芸大学)
講演題目：
Dimension spectrum of digit frequency sets for beta-expansions

アブストラクト：

We consider the digit frequency set of the digit 1 for beta-expansions and give a formula for its Hausdorff dimension using the largest positive zero of a certain analytic function associated to the (greedy) expansion of 1. The strategy of the proof is to refine the thermodynamic formalism for beta-shifts, which also yields an explicit formula for an invariant probability measure satisfying conditional variational principle in the case that the potential is locally constant.

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