ERGODIC PROPERTIES OF GREEDY EXPANSIONS

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This talk is devoted to investigate expansions $\sum_{i=1}^{\infty} \frac{\varepsilon_i}{q^i}$ in basis $q \in \mathbb{R}$ and integer digits $\varepsilon_i \in \{a_1, \ldots, a_m\}$.

An adapted version to alphabets with gaps of Rényi's and Sidorov's results on the existence of a generalized Rényi's measure, the ergodicity of the one-sided shift in the space of greedy expansions and the existence of a continuum of different expansions for almost every representable x with basis $q < 2$ is shown.