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Fat, symmetric, irrational Cantor sets. (In English)

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For $0 < \alpha \leq 1$ let C_α be the Cantor set in $[0, 1]$ obtained by the familiar process of removing middle intervals of length $\alpha/3$, $\alpha/3^2$ etc. It is proved that the set of $\alpha \in (0, 1]$ for which C_α consists only of irrational numbers is residual in $[0, 1]$.

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Classification:

26A30 Real functions of one real variable with other special properties

26A21 Classification of functions of one real variable

04A15 Descriptive set theory

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