ON UNIVOQUE AND STRONGLY UNIVOQUE SETS

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For a number $\beta \in (1, 2)$, the *univoque set U_β* is the set of numbers which have exactly one expansion in base β. It has been well studied in the literature, and can be viewed as the set of points whose orbits avoid the hole in an open dynamical system. In 2011, Jordan, Shmerkin and Solomyak introduced a subset of the univoque set which we'll call the *strongly univoque set*, and used it to study the multifractal spectrum of Bernoulli convolutions. In this talk we will look at another, rather unexpected, application of the strongly univoque set, and compare and contrast it with the univoque set U_β.