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*Characterization of the unique expansions  $1 = \sum_{i=1}^{\infty} q^{-n_i}$  and related problems.*

(In English)

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Given a nonintegral base  $1 < q < 2$ , the authors characterize the expansions of 1 base  $q$  for which uniqueness holds. Estimates for the number of consecutive zero digits in the greedy expansion of 1 are also obtained. These results are related to the sequence of real numbers which has finite base  $q$  expansions. Some open problems are given at the end of the article.

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Classification:

11A63 Radix representation

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nonintegral base; uniqueness; number of consecutive zero digits; greedy expansion; real numbers