

Abstract

Lebesgue measure and Hausdorff dimension of special sets of real numbers from $(0, 1)$.

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We give a result concerning the Hausdorff dimension and estimation of the Lebesgue measure for the sets of continued fractions of the type $a = [a_1, a_2, \dots]$ where for every natural number n the term a_n belongs to a set S_n which is the subset of natural numbers. The upper bound for the Hausdorff dimension of the set of numbers with continued fractional expansions which fulfill some properties of asymptotic densities is included.