Zbl 805.11012
Erdős, Paul; Joó, I.
On the number of expansions $1 = \sum q^{-n_i}$. II. (In English)
Ann. Univ. Sci. Budap. Rolando Eötvös, Sect. Math. 36, 229-233
(1993). [0524-9007]

Continuing some earlier investigations concerning expansions of 1 in basis q, with $1 < q < 2$, of the form $1 = \sum_{i=1}^{\infty} \varepsilon_i q^{-1}$, where the digits ε_i can be 0 or 1 (see the review above), the authors prove now the following theorem. There are $2^{\aleph_0}$ many values q for which 1 has precisely $\aleph_0$ many expansions in basis q.

L.Tóth (Cluj)

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