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Title: Common expansions in noninteger bases

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In this paper we study the existence of simultaneous representations of real numbers in bases $p > q > 1$ with the digit set $A = \{-m, \dots, 0, \dots, m\}$. We prove among others that if $q < (1 + \sqrt{8m+1})/2$, then there is a continuum of sequences $(c_i) \in A^\infty$ satisfying $\sum_{i=1}^\infty c_i q^{-i} = \sum_{i=1}^\infty c_i p^{-i}$. On the other hand, if $q \geq m+1 + \sqrt{m(m+1)}$, then only the trivial sequence $(c_i) = 0^\infty$ satisfies the former equality.

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