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On the frequency of letters in morphic sequences

In papers that appeared in 1975 and 1976, Michel studied the existence of the asymptotic frequency of letters in a morphic sequence. He proved that if a sequence is primitive, then the letter frequency exists. This is not, however, optimal; there are nonprimitive morphic sequences for which the letter frequency exists. In this talk, we present some new results concerning the existence of the frequency of letters in morphic sequences. In particular, we outline a proof of a result that the frequency of letters exists in any pure binary morphic sequence.