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Mathematics > Dynamical Systems

## Dimension spectrum for a nonconventional ergodic average

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We compute the dimension spectrum of certain nonconventional averages, namely, the Hausdorff dimension of the set of \$0,1\$ sequences, for which the frequency of the pattern 11 in positions \$k, 2k\$ equals a given number \$\theta\in [0,1]\$.

Comments: 11 pages, 1 figure; revision after the referee report (some proofs are shorter), to appear in Real Analysis Exchange

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