Abstract

We prove that for 1 < c < 4/3 the subsequence of the Thue–Morse sequence **t** indexed by $\lfloor n^c \rfloor$ defines a normal sequence, that is, each finite sequence $(\varepsilon_0, \ldots, \varepsilon_{T-1}) \in \{0, 1\}^T$ occurs as a contiguous subsequence of the sequence $n \mapsto \mathbf{t} (\lfloor n^c \rfloor)$ with asymptotic frequency 2^{-T} .