Friedrich Pillichshammer

On the Discrepancy of the Van Der Corput Sequence Indexed by Fibonacci Numbers, Fibonacci Quart. **50** (2012), no. 3, 235–238.

Abstract

The van der Corput sequence in base b indexed by the Fibonacci numbers F_n is known to be uniformly distributed modulo one if and only if b is a power of 5. In this paper we show that the discrepancy of this sequence is at most of order $1/\sqrt{N}$.