

Luis A. Medina and Eric Rowland
p-Regularity of the p-Adic Valuation of the Fibonacci Sequence,
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Abstract

We show that the p -adic valuation of the sequence of Fibonacci numbers is a p -regular sequence for every prime p . For $p \neq 2, 5$, we determine that the rank of this sequence is $\alpha(p) + 1$, where $\alpha(m)$ is the restricted period length of the Fibonacci sequence modulo m .