On Lucas Sequences of the First Kind With Finitely Many Primes

Kim, Aaron (School: Bronx High School of Science)

We strengthen a result of Jones by showing that for any integer P 1, the Lucas sequence {Un} defined by U0 = 0, U1 = 1, Un = P · Un1 + Un2 can be translated by a positive integer K(P) such that the shifted sequence with general term Un +K(P) contains no primes, nor terms one unit away from a prime.

Awards Won: