

Lawrence Somer and Michal Křížek
On Lehmer Superpseudoprimes,
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Abstract

A Lehmer superpseudoprime is a Lehmer pseudoprime, all of whose divisors greater than 1 are either pseudoprimes with the same parameters or primes. Lehmer superpseudoprimes with exactly two distinct prime divisors are not very interesting, since their only proper divisors are primes. Phong and Joó have generated infinitely many Lehmer superpseudoprimes with exactly three distinct prime divisors for various parameters. In this paper, we generate infinitely many Lehmer superpseudoprimes with exactly four distinct prime divisors for Lehmer sequences having various parameters.