Buhler, J. P.; Harvey, D.
Irregular primes to 163 million. (English) Zbl 1267.11128

Summary: We compute all irregular primes less than \(163,577,856\). For all of these primes we verify that the Kummer-Vandiver conjecture holds and that the \(\lambda\)-invariant is equal to the index of irregularity.

MSC:
11Y40 Algebraic number theory computations
11B68 Bernoulli and Euler numbers and polynomials
11R18 Cyclotomic extensions

Software:
\(\text{zn\_poly}\); \text{gmp}; NTL

Full Text: DOI arXiv

References:
[21] A. Schönhage, Schnelle Multiplikation von Polynomen über Körpern der Charakteristik 2, Acta Informat. 7 (1976/77), no. 4,


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