THE FIRST OCCURRENCE OF LARGE GAPS BETWEEN SUCCESSIVE PRIMES

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Abstract

A table of the first occurrence of a string of $2r-1$ composite numbers between two primes is given for $r = 158(1)267, 269, 270, 273, 275, 276, 281, 282, 291, 294$ and 301. All such strings between primes less than 2.6×10^{12} have been accounted for. The computation supports some conjectures on the distribution of these strings.

Comments

Only the Abstract is given here. The full paper appeared as [1] and an extension to 4.444×10^{12} appeared as [2].

References

[1] R. P. Brent, "The first occurrence of large gaps between successive primes", *Mathematics of Computation* 27 (1973), 959-963. MR 48#8360, Zbl 269.10002. rpb019

[2] R. P. Brent, "The first occurrence of certain large prime gaps", *Mathematics of Computation* 35 (1980), 1435-1436. MR 81g:10002, Zbl 443.10003. rpb057

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