Poulet numbers which can be written as a sum of two successive primes plus one

Marius Coman
email: mariuscoman13@gmail.com

Abstract. In this paper I make the following conjecture: there exist an infinity of Poulet numbers which can be written as a sum of two successive primes plus one (for the numbers that are the sum of two succesive primes see the sequence A001043 in OEIS).

Conjecture:

There exist an infinity of Poulet numbers which can be written as a sum of two successive primes plus one.

(for the numbers that are the sum of two succesive primes see the sequence A001043 in OEIS).

The first twenty such Poulet numbers:

: 341 = 167 + 173 + 1;
: 1105 = 547 + 557 + 1;
: 4681 = 2339 + 2341 + 1;
: 5461 = 2729 + 2731 + 1;
: 6601 = 3299 + 3301 + 1;
: 7957 = 3967 + 3989 + 1;
: 11305 = 5651 + 5653 + 1;
: 13741 = 6869 + 6871 + 1;
: 14491 = 7243 + 7247 + 1;
: 18721 = 9349 + 9371 + 1;
: 23001 = 11497 + 11503 + 1;
: 39865 = 19927 + 19937 + 1;
: 42799 = 21397 + 21403 + 1;
: 63973 = 31981 + 31991 + 1;
: 65281 = 32633 + 32647 + 1;
: 72885 = 36433 + 36451 + 1;
: 88561 = 44279 + 44281 + 1;
: 91001 = 45497 + 45503 + 1;
: 101101 = 50549 + 50551 + 1;
: 107185 = 53591 + 53593 + 1.

Note that 20 from the first 81 Poulet numbers can be written this way.