# Three conjectures on the numbers obtained concatenating to the left the odd numbers with 1234

**Abstract.** In this paper I state the following three conjectures on the numbers obtained concatenating to the left the odd numbers with 1234: (I) There exist an infinity of primes obtained concatenating to the left odd numbers with 1234; (II) There exist an infinity of primes obtained concatenating to the left prime numbers with 1234; (III) There exist an infinity of primes obtained concatenating to the left Poulet numbers with 1234.

**Conjecture 1:**

There exist an infinity of primes obtained concatenating to the left odd numbers with 1234.

**The sequence of these primes:**

:     12343,  12347,  123419,  123427,  123433,  123439,
      123449,  123457,  123479,  123491,  123493,  123499,
      1234109,  1234117,  1234133,  1234147,  1234187,
      1234231,  1234237,  1234241,  1234243,  1234253,
      1234271,  1234309,  1234333,  1234349,  1234351,
      1234367,  1234379,  1234391,  1234393,  1234439,
      1234463,  1234511,  1234517,  1234531,  1234537,
      1234543, 1234547, 1234577, 1234603, 1234613 (...)

**Conjecture 2:**

There exist an infinity of primes obtained concatenating to the left prime numbers with 1234.

**The sequence of these primes:**

:     12343,  12347,  123419,  123479,  123409,  1234133,
      1234241,  1234271,  1234349,  1234379,  1234439,
      1234463, 1234547, 1234577, 1234613 (...)

**Conjecture 1:**

There exist an infinity of primes obtained concatenating to the left Poulet numbers with 1234.

**The sequence of these primes:**

:     12341729,  12342047,  12342821,  12344681,  12346601,
      123412801,  123413747,  123415709,  123415841,
      123418721, 123419951, 123433153 (...)