

1155-11-87

Michael Filaseta* (filaseta@mailbox.sc.edu), Department of Mathematics, 1523 Greene Street, Columbia, SC 29208, and **Jeremiah Southwick** (southwij@math.sc.edu), Department of Mathematics, 1523 Greene Street, Columbia, SC 29208. *Primes that become composite after changing a digit*. Preliminary report.

In 1978, Murray Klamkin asked whether there exist prime numbers such that if any digit is replaced by any other digit, the resulting number is composite. In 1979, several examples were published together with a proof by Paul Erdős that infinitely many such primes exist. Following the terminology of Jackson Hopper and Paul Pollack, we call such primes “digitally delicate.” The smallest digitally delicate prime is 294001. In this talk, we discuss some of the history surrounding digitally delicate primes, implications of prior work, and recent work by the speaker with Jeremiah Southwick. (Received December 30, 2019)