## Exposé court

## 127 Sums of proper divisors with missing digits

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Let $s(n)$ denote the sum of proper divisors of an integer $n$. In 1992 Erdős, Granville, Pomerance, and Spiro (EGPS) conjectured that if $\mathscr{A}$ is a set of integers with asymptotic density zero then $s^{-1}(\mathscr{A})$ also has asymptotic density zero. In this talk, we will discuss recent progress towards the EGPS conjecture. In particular, we show that the conjecture holds when $\mathscr{A}$ is taken to be a set of integers with missing digits. This talk is based on joint work with Kübra Benli, Giulia Cesana, Cécile Dartyge, and Charlotte Dombrowsky.

