

## COLLOQUIUM

### *Primes fall for the gambler's fallacy*

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**Abstract:** The gambler's fallacy is the erroneous belief that if (for example) a coin comes up heads often, then in the next toss it is more likely to be tails. In recent work with Robert Lemke Oliver, we found that funnily the primes exhibit a kind of gambler's fallacy: for example, consecutive primes do not like to have the same last digit. I'll show some of the data on this, and explain what we think is going on.

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MATHEMATICS AND COMPUTER SCIENCE  
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