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2022 Pi Mu Epsilon Lecture Series

UNIVERSITY of NEBRASKA-LINCOLN

Ken Ono

What is the Riemann hypothesis, and why does it matter?

Wednesday, April 13

4 p.m., via Zoom (ID: 947 8772 9456; Password: MATH-CLUB) and broadcast in Avery 115

The Riemann hypothesis provides insights into the distribution of prime numbers, stating that the nontrivial zeros of the Riemann zeta function have a "real part" of one-half. A proof of the hypothesis would be world news and fetch a \$1 million Millennium Prize. In this lecture, the speaker will discuss the mathematical meaning of the Riemann hypothesis and why it matters. Along the way, he will tell tales of mysteries about prime numbers and highlight some recent advances.



Ken Ono currently holds the title of Thomas Jefferson **Professor of Mathematics at** the University of Virginia, and is Chair of the Mathematics Section in the American Association for the Advancement of Science. He was formerly (2018-2021) a Vice President of the American Mathematical Society. Previously, Ono held positions at University of Wisconsin-Madison and **Emory University. Ono** completed his BA at the University of Chicago in 1989, and his PhD at the University of California, Los Angeles in 1993.



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