

Undergraduate Colloquium in Mathematics

Illinois State University

12:00-12:50 PM CDT, April 14, 2022

Speaker: **Lucian Ionescu, Ph. D. (Illinois State University)**

On Prime Numbers and Riemann Zeros

Abstract:

Intuitively, prime numbers of "Number systems" (rings) are the building blocks of their elements. We start from natural numbers and Gaussian integers to explain more general frameworks, like the structure theorem for finitely generated Abelian groups. We end with a 1-million-dollar puzzle, the Riemann Hypothesis, and claim that prime numbers are dual to the Riemann zeros. Some easy references are provided.

About Speaker:

Dr. Ionescu graduated from Bucharest University, Romania with a bachelor's degree and master's degree in Mathematics and from Kansas State University with a master's degree and a Ph. D. in Mathematics. While he was a Ph. D. student, Dr. Ionescu received a Kansas State University award for outstanding graduate student in academics. In addition, he received Pre-tenure outstanding research award from the department of Mathematics at Illinois State University in 2004 and Illinois State University research initiative award in 2005. Currently, Dr. Ionescu is a full professor in Mathematics at Illinois State University. His current research interest is in applications of mathematics to quantum physics and quantum computing.

Zoom Meeting Information

Join Zoom Meeting

<https://illinoisstate.zoom.us/j/91671891930?pwd=T3Ziam4zWE5sOXdlNnRUV3NsbGdHdz09>

Meeting ID: 916 7189 1930

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