Philadelphia Area Number Theory Seminar

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Large values of the Riemann zeta function on the critical line

Abstract: The interplay between probability theory and number theory has a rich history of producing deep results and conjectures. This talk will review recent results in this spirit where the insights of probability have led to a better understanding of large values of the Riemann zeta function on the critical line. In particular, we will discuss the large deviations of Selberg's central limit theorem as well as the maximum of zeta in short intervals.

This is based on joint works with Emma Bailey, and with Paul Bourgade & Maksym Radziwill.

Tuesday, November 15, 2022
3–5 PM

Bryn Mawr College
Department of Mathematics
Park Science Center **328**

Informal refreshments at 3PM – Talk at 3:30PM