

BI-CO MATHEMATICS COLLOQUIUM

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"Riemann's Function for Function Fields"

Monday, October 19, 2015

Talk at 4:00 – H109

Tea at 3:30 – KINSC Math Lounge, H208

Abstract:

In 1859 Bernhard Riemann proposed what is now considered one of the most important unsolved problems in pure mathematics. The Riemann hypothesis is one of the Clay Mathematics Institute Millennium Prize Problems --- a proof carries a million-dollar cash prize. At the heart of this famous conjecture is the Riemann zeta function. In this talk, we introduce the Riemann zeta function from a historical perspective before stating the Riemann hypothesis and exploring its number theoretic implications. Then we move to the function field setting, where we will prove that the Riemann hypothesis is true!

HAVERFORD COLLEGE