



## **Professor Jon Keating FRS**

Henry Overton Wills Professor of Mathematics  
University of Bristol

# **Seventh Annual Baylor Lecture Series in Mathematics**

Thursday, October 31, 2013 • 4:00 p.m.

Baylor Sciences Building – D109

Baylor University

Waco, Texas

## **The Primes, Quantum Mechanics, Random Matrices and the Riemann Hypothesis**

I will discuss one of the central problems in mathematics - the Riemann Hypothesis - which is related to the distribution of the prime numbers. In particular, I will describe highly speculative ideas which relate this problem to quantum mechanics. This has led to several new insights concerning long-standing statistical questions that arise in the theory of the primes, where mathematical physics plays a surprising role.



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