



香港大學

THE UNIVERSITY OF HONG KONG

Institute of Mathematical Research
Department of Mathematics

Frontiers of Mathematics Lecture

A Number Theorist's Adventures in the Land of Spectral Theory



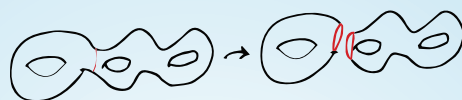
2 FRI
0 July 22
2
2 5:00 - 6:00 pm (HKT)

Join via ZOOM

<https://hku.zoom.us/j/96586653649>

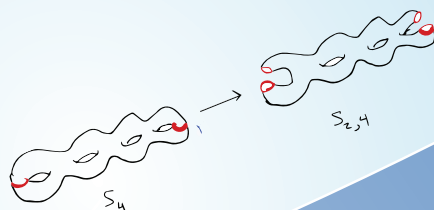
Meeting ID: 965 8665 3649

**Professor
Zeev Rudnick**
Tel-Aviv University, Israel



Abstract

I will discuss some of the interactions between number theory and the spectral theory of the Laplacian. Some have very classical background, such as the connection with lattice point problems. Others are newer, including connections with Random Matrix Theory, the zeros of the Riemann zeta function, and the work of Maryam Mirzakhani on the moduli space of hyperbolic surfaces.



Biography

Zeev Rudnick is the Cissie and Aaron Beare Chair in Number Theory at Tel Aviv University, specializing in Number Theory and Quantum Chaos. Prior to his appointment at Tel Aviv in 1995, he was an Assistant Professor at Princeton and in Stanford. He received his PhD from Yale in 1990.

He was awarded the Erdős prize of the Israel Mathematical Union (2001), appointed a Fellow of the American Mathematical Society, 2012-, and awarded ERC Advanced Grants in 2013 and 2019. He was a 45-minute Invited Speaker at ICM in Seoul (2014), the Aisenstadt Chair, CRM Montreal (2014), the David Rees Distinguished Visiting Fellow, University of Exeter, 2017, the Heilbronn Distinguished Visiting Professor, University of Bristol, 2019.

He is the Executive Editor of the journal International Mathematics Research Notices (IMRN), published by Oxford University Press.