

On Gaussian multiplicative chaos and connections to number theory

Eero Saksman

University of Helsinki, Finland

`Eero.Saksman@helsinki.fi`

The talk is based on the joint work with Christian Webb (Aalto University)

We recall some basic properties of Gaussian multiplicative chaos and describe its connection to the functional statistics of the Riemann zeta function on the critical line (and to that of random unitary matrices). Also, we will make a link to the recent solution of the Helson conjecture by Adam Harper.