

Stanford University Mathematical Organization (SUMO) Speaker Series

February 19, 2018

6-7pm, Ricker Dining Hall

How many evenly curved once punctured tori are there?

Prof. Alex Wright
Abstract

We will begin by discussing hyperbolic geometry, and how it can be used to build “evenly curved” metrics on a donut with one point removed. We will then discuss Mirzakhani’s computation of the “size” of the universe of all possible such metrics, i.e., the Weil-Petersson volume of the moduli space of complete hyperbolic metrics on a punctured torus.

