

TITLE: Shape of a Random Surface

ADVISOR: Kasra Rafi

This project aims to investigate the geometric properties of random hyperbolic surfaces of high genus. The research will be supervised by Kasra Rafi, and the specific focus within this broader area will develop from discussions between the student and supervisor.

Over the course of the summer, the student will begin by learning hyperbolic geometry and familiarizing themselves with Maryam Mirzakhani's work on the geometry of random surfaces. We will then explore various research problems related to this topic. The outcomes of the project will be summarized and shared in an appropriate academic setting.