

Fall 2023

Geometry and Topology Seminar

Title

A simple guide to shearing surfaces

Speaker: Yi Huang, Yau Mathematics Sciences
center of Tsinghua University
Date: December 04, 2023
Time: 11:00AM
Location: LG 631

Abstract: We (try to) give a friendly guide for shearing between hyperbolic surfaces in as “efficient” a manner as possible. On the way, we’ll see Teichmüller spaces, Thurston’s earthquake theorem, and a novel metric on Teichmüller space called the earthquake metric which has surprising connections to both the Thurston metric and the Weil-Petersson metric. This is work in collaboration with K. Ohshika, H. Pan and A. Papadopoulos.