

Large $GL(2, \mathbb{R})$ invariant subvarieties of the Hodge bundle and billiards in polygons
Alex Wright, Stanford University

We will discuss some recent joint work with Mirzakhani, one consequence of which is that there are infinitely many triangles whose unfoldings have dense $GL(2, \mathbb{R})$ orbit. The talk will include background on flat-geometric and algebro-geometric features of $GL(2, \mathbb{R})$ orbit closures, and a number of open problems.