

David Glickenstein and Andrea Young

Title: Geometric flows in Riemannian and discrete geometry

Abstract: Geometric flows are an important technique in finding canonical geometries. In particular, the Ricci flow was used recently to solve the Poincaré conjecture and Thurston's geometrization conjecture. We will discuss some of the ideas of Ricci flow, primarily in two dimensions, as well as discrete analogues of Ricci flow which take place on simplicial complexes endowed with certain geometric structures. In the last lecture, we plan to outline some open problems and research directions.