**Title**

A brief introduction to Ricci flow

**Speaker:** Claudia Yao, Harvard University

**Date:** Oct 16, 2023

**Time:** 4:30 PM

**Room:** MSCS 445

**Abstract:** I will introduce the Ricci flow and its basic properties. As an application, I will sketch a proof of Hamilton’s differentiable sphere theorem in 3D, which says that every compact, simply-connected 3-manifold admitting a metric with positive Ricci curvature is diffeomorphic to the 3-sphere. Time permitted, I might briefly discuss Perelman’s work and/or some recent results related to exotic 4-manifolds.

This talk will be given virtually. Zoom link TBA.