

# Kathryn Mann

*Cornell University*

## **Classifying pseudo-Anosov flows on 3-manifolds**

I will describe work with Barthelmé, Fenley, and Frankel towards classifying (pseudo)-Anosov flows on a manifold of dimension 3. The approach is to study the dynamics of the action of the fundamental group on the \*orbit space\* of the flow, a bifoliated plane, and its compactification by a circle at infinity. This translates the flow to a discrete dynamical system, where individual elements exhibit some hyperbolic-like behavior. We introduce a toolkit to study these, in the more general framework of “Anosov-like actions on bifoliated planes”. The minicourse will present many of these tools, their applications to the study of flows, and some next directions for study on Anosov-like actions on the plane.