

TOPOLOGY SEMINAR

Guest Speaker: Christopher Leininger
Rice University



Date: Tuesday, February 22, 2022

Time: 2:30 PM

Location: 258 Hurley Hall

Zoom Link: notredame.zoom.us/j/97262637721

Lecture Title:

Purely pseudo-Anosov subgroups of fibered 3-manifold group

Abstract

Farb and Mosher, together with work of Hamenstädt, proved that Gromov hyperbolicity for surface group extensions is entirely encoded by algebraic and geometry properties of the monodromy into the mapping class group. They were thus able to give a purely geometric formulation for Gromov's Coarse Hyperbolization Question for the class of surface group extensions: Given a finitely generated, purely pseudo-Anosov (free) subgroup of the mapping class group, is it convex cocompact? In this talk, I will explain joint work with Jacob Russell in which we answer the question affirmatively for a new class of subgroups, namely, subgroups of fibered 3-manifold groups, completing a program for such groups started over a decade ago.