

Geometry, Topology and Dynamics Seminar

On word hyperbolic surface bundles

Autumn Kent (University of Wisconsin)

Abstract: There is a characterization of hyperbolicity of the fundamental group of a surface bundle due to Farb-Mosher-Hamenstaedt, namely that the bundle has hyperbolic fundamental group if and only if the fundamental group of the base is "convex cocompact," a notion analogous to the synonymous notion in Kleinian groups. I will discuss joint work with Bestvina, Bromberg, and Leininger that gives a new characterization of convex cocompactness, namely that the group is purely pseudo-Anosov and undistorted in the mapping class group.

Monday, April 24 at 3:00 PM in SEO 636