

Geometry, Groups and Dynamics/GEAR Seminar
(held at the Illinois hub of GEAR)

12:00 pm, Tuesday, January 24, 2017, 243 Altgeld Hall

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Boundary maps for some hierarchically hyperbolic spaces

Abstract: There are natural embeddings of right-angled Artin groups G into the mapping class group $\text{Mod}(S)$ of a surface S . The groups G and $\text{Mod}(S)$ can each be equipped with a geometric structure called a hierarchically hyperbolic space (HHS) structure, and there is a notion of a boundary for such spaces. In this talk, we will explore the following question: does an embedding $\phi: G \rightarrow \text{Mod}(S)$ extend continuously to a boundary map $\partial G \rightarrow \partial \text{Mod}(S)$? That is, given two sequences (g_n) and (h_n) in G that limit to the same point in ∂G , do $(\phi(g_n))$ and $(\phi(h_n))$ limit to the same point in $\partial \text{Mod}(S)$? No background in HHS structures is needed.

[Video](#)