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Boundary Maps

There are natural embeddings of right-angled Artin groups G into the mapping class group Mod(S) of a surface S. The groups G and Mod(S) can each be equipped with a geometric structure called a hierarchically hyperbolic space (HHS) structure. Durham, Hagen, and Sisto developed a notion of a boundary for such spaces. In this talk, we will explore the following question: does an embedding $\phi : G \to$ Mod(S) extend continuously to a boundary map $\partial G \to \partial$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 ∂Mod(S)? No background in HHS structures is needed.