Inverse limits of unimodal maps on dendrites

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In this talk, we will discuss the topological structure of inverse limits of unimodal maps on self-similar dendrites.

In particular, for a fixed dendrite D and unimodal map $f : D \to D$ under which D is self-similar, we demonstrate that there is a countable collection $\{g_i : D \to D\}$ of unimodal maps under which D is self-similar, which share the same critical point and Hubbard tree (the convex hull of the critical orbit in D) but have mutually non-homeomorphic inverse limits.

(joint work with Cordell Hammon, Brian Raines)