Groups of circle homeomorphisms with invariant laminations.

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Together with H. Baik and E. Samperton, we study subgroups of $Homeo^+(S^1)$ according to the laminations they preserve. Our most specific goal is to characterize the main examples that arise from hyperbolic geometry of surfaces and 3-manifolds.

I will give an overview of this topic, focusing on the Tits alternative for groups preserving two transverse laminations.

Joint work with Hyungryul Baik (Rheinische Friedrich-Wilhelms-Universität Bonn) and Eric Samperton (UC Davis).