

Splittings, Hyperbolic Geometry and Models

Hossein Namazi

Abstract: We try to explore how gluing maps and in particular combinatorics of Heegaard splittings affect the geometry of a 3-manifold. This will lead to an approach to find an effective geometrization for large classes of 3-manifolds. Even more, in these cases, the splitting provides a combinatorial model for the geometry.

The talk is mostly based on joint work with Jeff Brock, Yair Minsky and Juan Souto.