Timothy Riley, Cornell University

Cannon-Thurston Maps and Hyperbolic Hydra

Groups are Gromov-hyperbolic when the geodesic triangles in their Cayley graphs are close to being tripods. Despite being tree-like in this manner, they can harbor extreme wildness. I will describe exotic examples stemming from a re-imaging of Hercules’ battle with the hydra, and will explain how the wildness manifests in properties of “Cannon-Thurston maps” between boundaries.