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David Futer*, Mathematics Department, Temple University, 1805 North Broad St., Philadelphia, PA 19147. *The geometry of tunnel systems*. Preliminary report.

In a 3-manifold with torus boundary, a collection of arcs is called a *tunnel system* if their complement is a handlebody. If a tunnel system consists of a single arc, we call it an *unknotting tunnel*.

A longstanding question of Adams asks whether every unknotting tunnel of a hyperbolic 3-manifold is isotopic to a geodesic. I will survey what is known about this question as well its (somewhat subtle) generalization to tunnel systems with multiple arcs.

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