Geometry–Topology Seminar

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will speak on

Cusp areas of fibered 3–manifolds

ABSTRACT: Given a surface F with some number of punctures, and a homeomorphism $\varphi : F \to F$, one can construct the mapping torus $M = F \times [0,1]/(x,0) \sim (\varphi(x),1)$. In the generic case where M carries a hyperbolic metric, I will explain how to estimate some of its geometric features directly from combinatorial properties of the map φ. This is joint work with Saul Schleimer.

Tuesday, 13 October 2009
Lecture at 3:30 pm
Room 617, Wachman Building
Department of Mathematics