Random hyperbolic curves and geometry of the moduli space

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Abstract

In this talk, we describe the relationship between the geometry of hyperbolic surfaces and properties of the moduli space of such surfaces. In particular, we discuss the behavior of lengths of simple closed geodesics on a random hyperbolic surface of genus $g$ with respect to the Weil-Peterson measure as $g \to \infty$. 

Thursday, May 27
4:15 p.m.
Bldg. 380, Room 380-W.

http://math.stanford.edu/coll/0910/